

SERVICE MANUAL

ORIGINAL MANUAL ISSUE DATE: 2/2016

GN2SK CHASSIS
Segment: QH

Version	Date	Subject
1.0	2/2016	Original manual issue.
2.0	3/2016	Addition of 75" Model (P.2, P.21~31, P.33~36, P.63~68, P.71~74, P.135~175, P.185~190, P.194~195) Update entire manual

LCD TV

SONY®

MODEL LIST

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
<i>KD-55XD8505</i>	<i>Black</i>	<i>RMF-TX200E</i>	<i>CEI</i>
<i>KD-55XD8577</i>	<i>Silver</i>	<i>RMF-TX200E</i>	<i>CEI/UKA/RU3</i>
<i>KD-55XD8588</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI</i> <i>CEI</i>
<i>KD-55XD8599</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI/UKA/RU3</i> <i>CEI</i>
<i>FW-55XD8501</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI/UKA</i> <i>CEI/UKA</i>
<i>KD-65XD8505</i>	<i>Black</i>	<i>RMF-TX200E</i>	<i>CEI</i>
<i>KD-65XD8577</i>	<i>Silver</i>	<i>RMF-TX200E</i>	<i>CEI/UKA</i>
<i>KD-65XD8599</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI/UKA/RU3</i> <i>CEI</i>
<i>FW-65XD8501</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI/UKA</i> <i>CEI/UKA</i>
<i>KD-75XD8505</i>	<i>Black</i>	<i>RMF-TX200E</i>	<i>CEI/UKA/RU3</i>
<i>FW-75XD8501</i>	<i>Black</i>	<i>RMF-TX200E</i> <i>RMT-TX210E</i>	<i>CEI/UKA</i> <i>CEI/UKA</i>

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
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WARNINGS AND CAUTIONS - ENGLISH

CAUTION

These servicing instructions are for use by qualified service personnel only.

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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.

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.

SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ! mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual.

Follow these procedures whenever critical components are replaced or improper operation is suspected.

CAUTION ABOUT THE LITHIUM BATTERY

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

WARNINGS AND CAUTIONS - FRENCH

ATTENTION!!

Ces instructions de service sont à l'usage du personnel de service qualifié seulement.

Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié à faire ainsi.

WARNING!!

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

POUR TRANSPORTER LE TÉLÉVISEUR

Tenez compte de ce qui suit pendant l'installation du téléviseur :

- Débranchez tous les câbles avant de transporter le téléviseur.
- Transportez le téléviseur avec le nombre de personnes approprié ; un téléviseur de grande taille doit être transporté par au moins deux personnes.
- Lors du transport du téléviseur, l'emplacement des mains est très important pour votre sécurité, ainsi que pour éviter de causer des dommages.

ALERTE!!

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

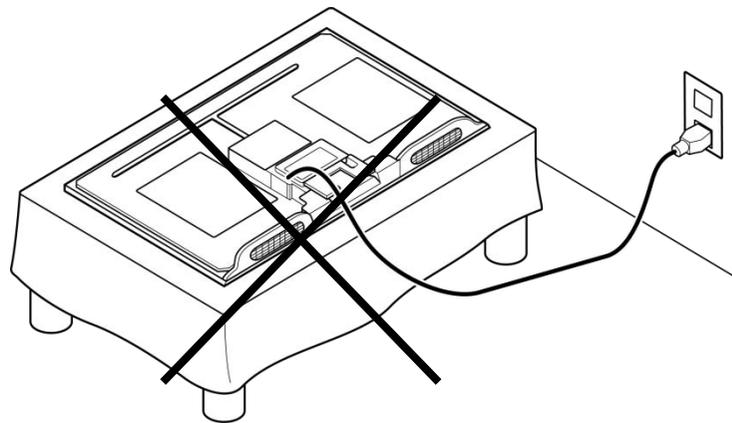
Les composants identifiés par une trame et par une marque  sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

USE CAUTION WHEN HANDLING THE LCD PANEL

When repairing the LCD panel, be sure you are grounded by using a wrist band.

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

- 1) Do not press on 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 temperatures or in areas of high humidity for an extended period of time.
- 4) Do not expose the LCD panel to direct sunlight.
- 5) Avoid contact with water. It may cause a short circuit within the module.
- 6) Disconnect the AC power when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms.)
- 7) Always clean the LCD panel with a soft cloth material.
- 8) Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
- 9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).
- 10) It is recommended not to exceed 1 hour of Power-On nor Burn-in period with LCD panel face down condition, in repair activity.



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 interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.
8. For safety reasons, repairing the Power board and/or Inverter board is prohibited.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

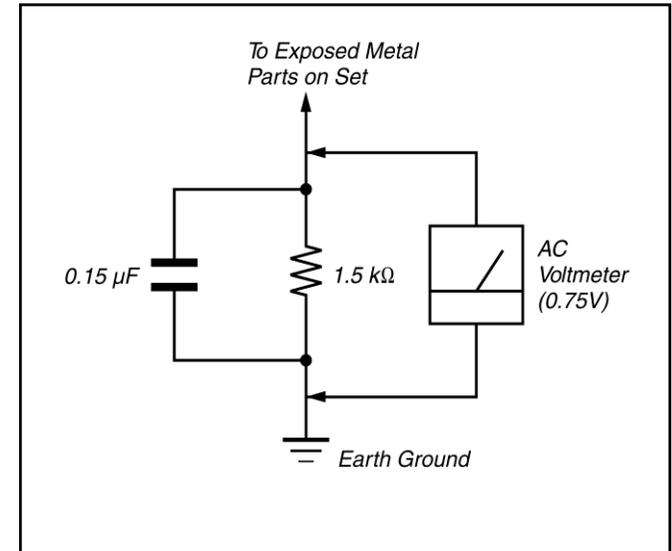


Figure A. Using an AC voltmeter to check AC leakage.

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground.

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.

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 B).

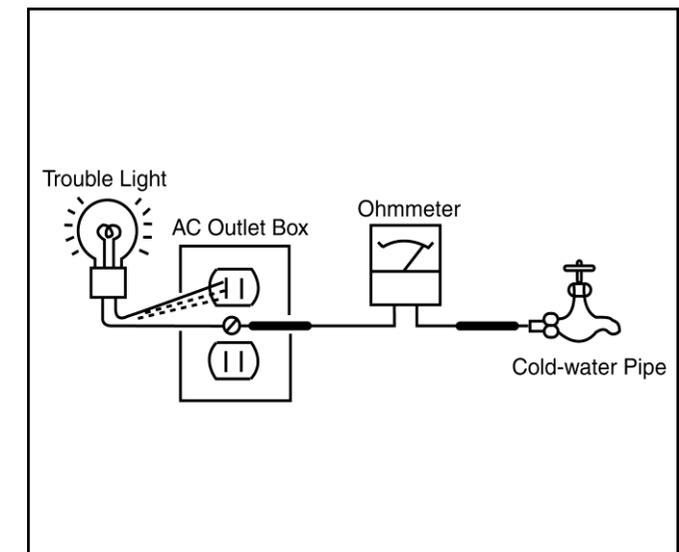


Figure B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the Smart Core Red LED will automatically begin to flash.

The number of times the LED flashes translates to a probable source of the problem.

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

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

DIAGNOSTIC TEST INDICATORS

When an error occurs, the Smart Core Red LED will flash a set number of times to indicate the possible cause of the problem.

If there is more than one error, the LED will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen.

If the screen displays a "0", no error has occurred .

<G>: Power supply board, : Main board, <T>: Tcon board, (LD) board, <P>: Panel module, <S>: Speaker, <A>: Power Adapter, <D>: DPS 4K BE board

RED LED blinking count	Detection Items
2x	<G/B/A> Main 12V over voltage [MAIN_POWER]
3x	 Main 5.0V failure [DC_ALERT]
	<B/S> Audio amp. protection [AUD_ERR]
4x	None
5x	<i><P/T/G/B> Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect) [P_ID_ERR]</i>
	<T> Tcon IC I2C communication error [TCON_ERR]
6x	<G/P/B/LD/D> Backlight failure [BACKLIGHT] or <LD/P/D> LED driver failure/LED voltage protection
7x	Over temperature protection [TEMP_ERR] Temp. sensor I2C No ACK [TEMP_ERR] <B/D> V By One lock error between Main device and 4KBE device [4KBE_ERR] 4KBE device UART communication error detection.
8x	<B/D> Software error [SW_ERR]

Red italic: detect at startup sequence only.

[SELF DIAGNOSTIC SCREEN DISPLAY]

Format of error timestamps

YYMMDDhhmmss (in UTC)

Example:

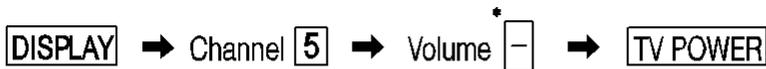
120823132523 -> Aug 23 2012 13:25:23 UTC

* Only when time is set, an error timestamp is saved.

- Panel Operation Time is recorded every 30 min, but Total Operation Time is recorded every 1 hr. Therefore, the panel op. time might become larger than the total op. time.

Total Operation Time [hr] – Boot Count – Panel Operation Time [hr]

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen: In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



* : Note that this differs from entering the service mode (volume +)

SELF CHECK

Error ID	Error Name	Count 1	Count 2	Count 3	Count 4
002	MAIN_POWER	000000000000	000000000000	000000000000	000
003	DC_ALERT	000000000000	000000000000	000000000000	000
003	AUD_ERR	150101000018	150101000018	150101000018	003
003	HDMI_EQ	150101000123	150101000045	150101000045	003
003	TU_DEMOD	150101000218	150101000223	150101000105	003
004	LD_ERR	000000000000	000000000000	000000000000	000
004	BCM_ERR	000000000000	000000000000	000000000000	000
005	TCON_ERR	150101000504	000000000000	000000000000	001
005	P_ID_ERR	000000000000	000000000000	000000000000	000
006	BACKLIGHT_ERR	000000000000	000000000000	000000000000	000
007	TEMP_ERR	150101000200	150101000002	000000000000	002
007	4KBE_ERR	000000000000	000000000000	000000000000	000
008	SW_ERR	000000000000	000000000000	000000000000	000

00005 00414 00002

[Home]Exit

Error timestamp for last recorded error

Error timestamp for second last recorded error

Error timestamp for 3rd last recorded error

Clearing the Self Check Diagnostic List

Panel operation time : Press the Channel 7 => Channel 0 .

To exit the Self Diagnostic screen...

*If you want to finish service mode app, do AC OFF/ON

→Service mode app is disable perfectly

*if you want to move home menu, push <HOME>button

→Service mode app do background(not disable perfectly)

NOTE:

This model does not have the function to clear the error history of self-diagnostic screen by remote such as press the Channel 8 => Channel 0.

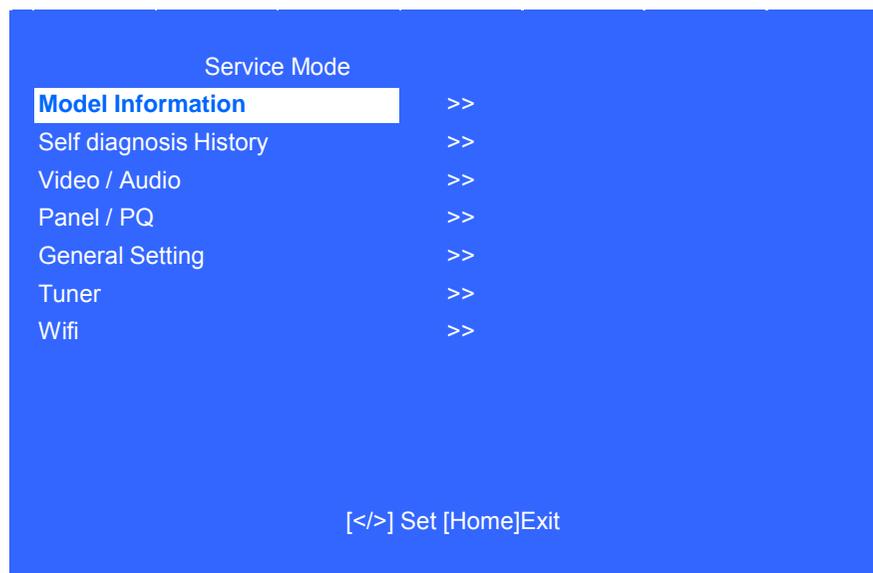
ADJUSTMENT

HOW TO ENTERING SERVICE MODE

- 1) Turn on the main power switch to place the set in standby mode.
- 2) Press the buttons on the remote commander as follows, and entering service mode.

DISPLAY → Channel 5 → Volume + → TV POWER

- 3) Service mode display.



- 4) How to use the remote commander.

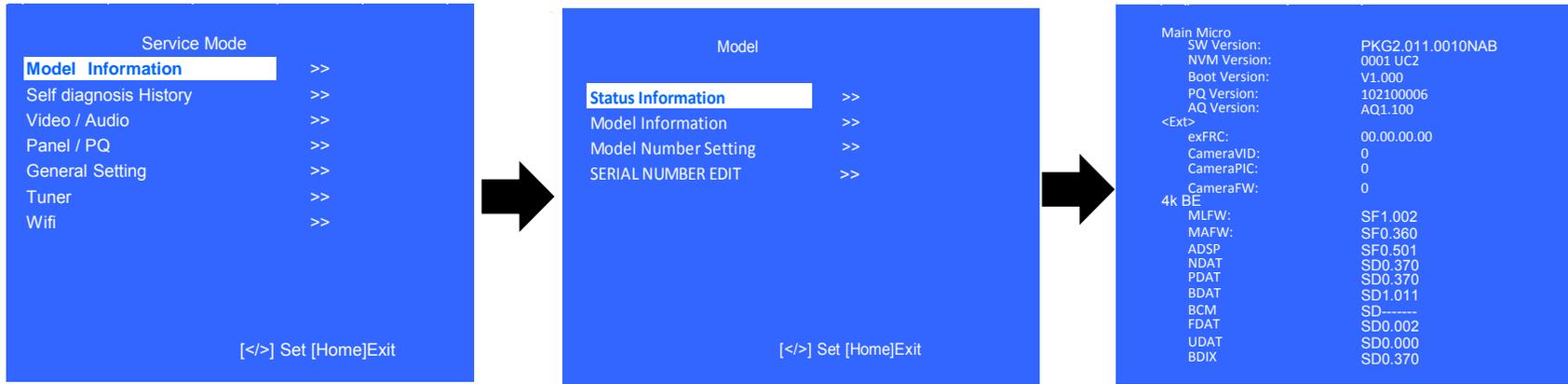
Function	The flow of control
Service mode on	<Display><5><Vol Up><Power>
Service mode off	AC plug OFF/Menu*
Item up / down	<↑>/ <↓>
Item select left/right	<←>/<→>
Execute	<OK>

*When finished the operation of service mode , please AC Plug OFF/ON the TV set.

If you don't do AC plug OFF/ON, remain the Service Mode App and User can see the Service Mode after RC ON.
(Refer the previous page.)

SOFTWARE VERSION

1) In Service Mode, select “Model Information”, press “Enter” or “→” button to enter Status Information.

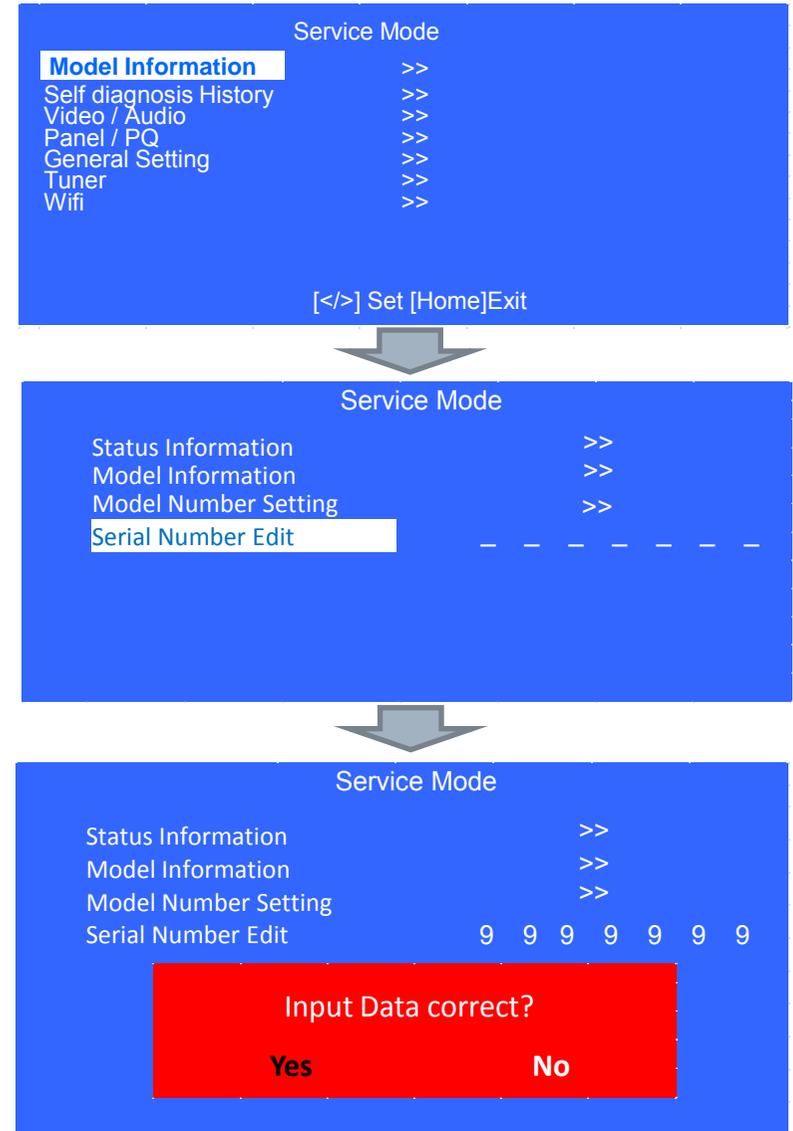


2) Press “Enter” or “Return” button to return to Service Mode.



SERIAL NUMBER EDIT (1)

- 1) In “Service Mode”, select “Model Information” by pressing “↑” or “↓” then pressing “Enter” or “→” button to enter inside.
 - 2) Select “Serial Number Edit” by pressing “↑” or “↓” button then pressing “→” button.
 - 3) Press “↑” or “↓” to input numbers.
 - 4) After user input data , press <Enter> .
 - Pop-up dialog appear to confirm input data correct
 - **Serial Number can be set ONLY ONCE**
 - 5) Press “→” or “←” button to select YES or NO.
 - Select YES if input data is correct.
 - Select NO if input data is incorrect.
- Press <Enter> to save answer.

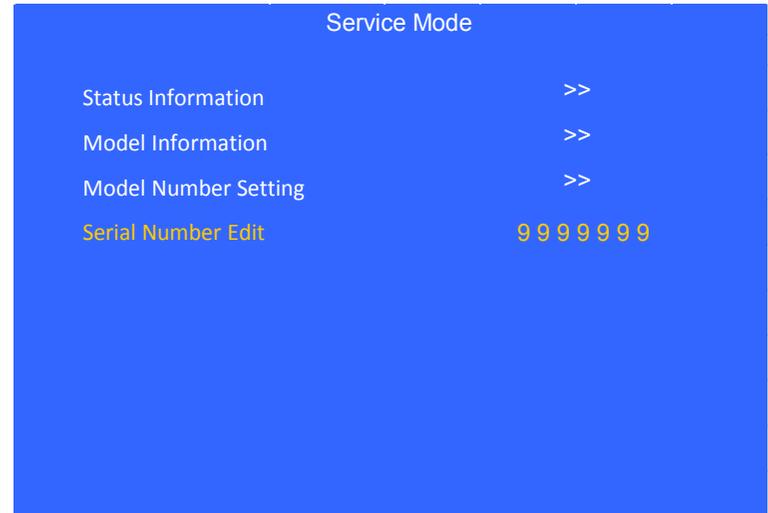


SERIAL NUMBER EDIT (2)

If **YES is selected**, the input data is saved into EEPROM.

SERIAL NUMBER EDIT is greyed out and the serial number that has been input is displayed.

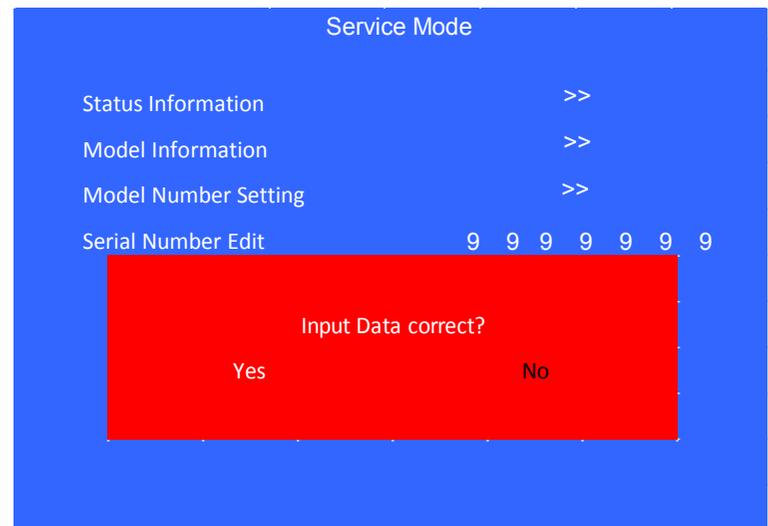
User will **not be able to edit** anymore.



If **NO is selected**, the input data is not saved into EEPROM.

The serial number that has been input is displayed.

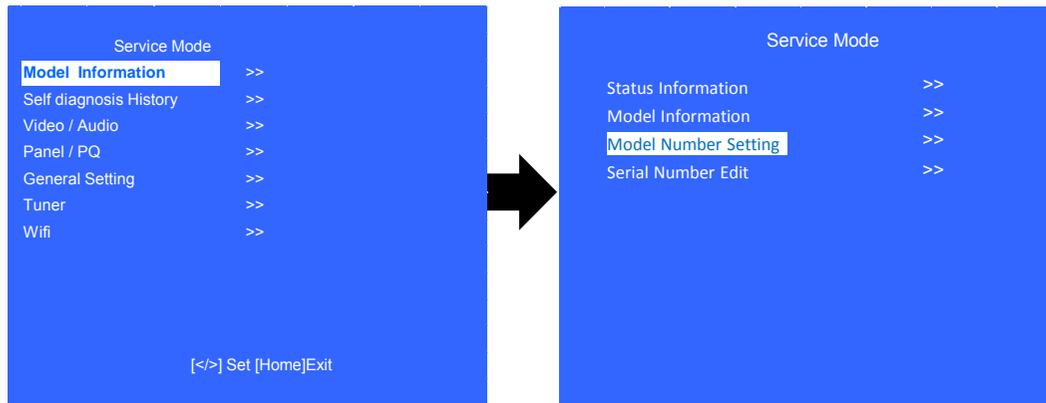
User can still edit the Serial Number.



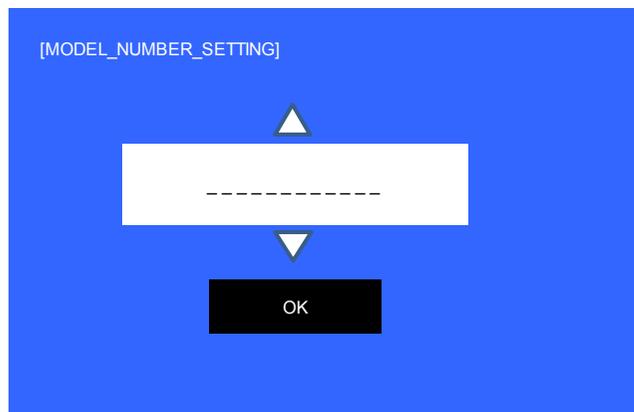
MODEL NUMBER SETTING

- 1) In “Service Mode”, select “Model Information” by pressing “↑” or “↓” then pressing “Enter” or “→” button to enter inside.
- 2) Select “Model Number Setting” by pressing “↑” or “↓” button then pressing “Enter” or “→” button.
- 3) Press “↑” or “↓” arrow key to scroll Product Name Candidate.

➤ (e.g. KDL-40X500B CO1, KDL-40X500C BR6)



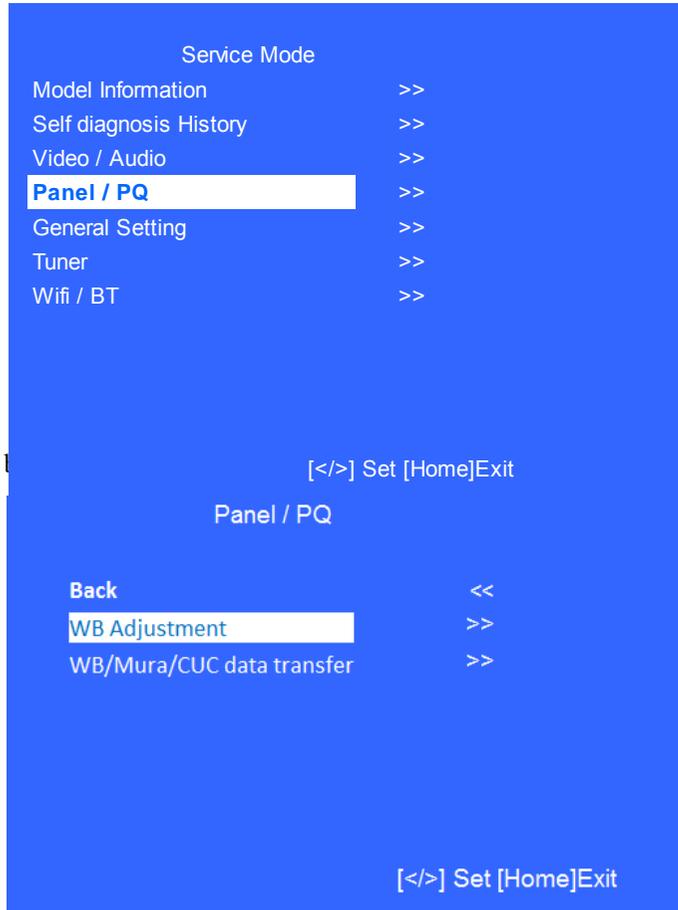
- 4) Select one Product Name from the list, press <Enter> will pop dialog to inform user to confirm data. Model dependent settings will be overwritten into EEPROM.



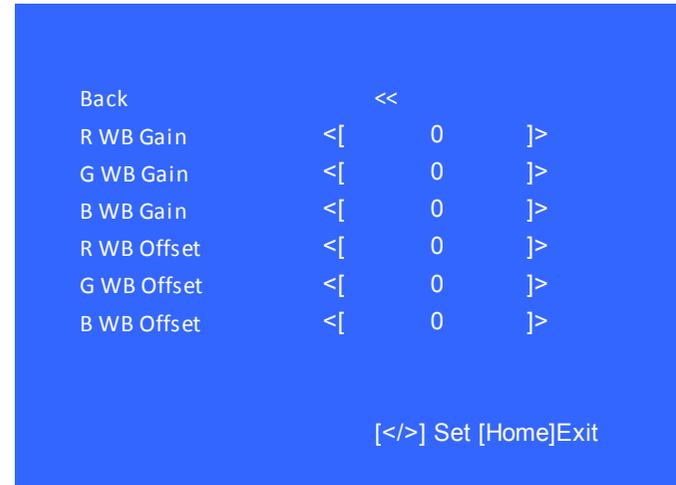
WB ADJUSTMENT

In “Panel/PQ” service mode.

a. Go to “WB Adjustment” category by “↑” or “↓”.



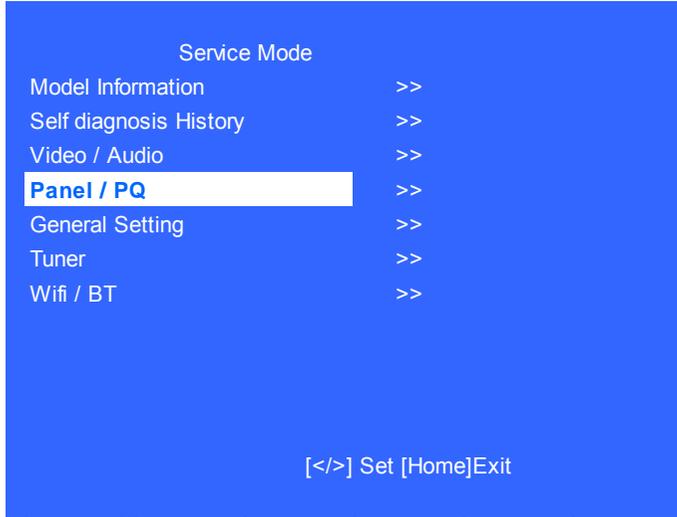
c. To change data , press “←” or “→” on remote commander.



WB/MURA/CUC DATA TRANSFER

(Please apply after Main board or panel is replaced.)

1. In “Panel/PQ” service mode.
 - a. Go to “WB/Mura/CUC data transfer” category by “↑” or “↓”.



2. In “WB/Mura/CUC data transfer”.
 - a. Select “WB/Gamma data transfer” by pressing “↑” or “↓” on remote commander.
 - b. To change the items, press “←” or “→” on remote commander and press “Enter” button.

Selectable items are:

0. SoC to T-con
1. T-con to SoC
2. No action

- c. Select “[start]” and press “Enter” button to start transfer.

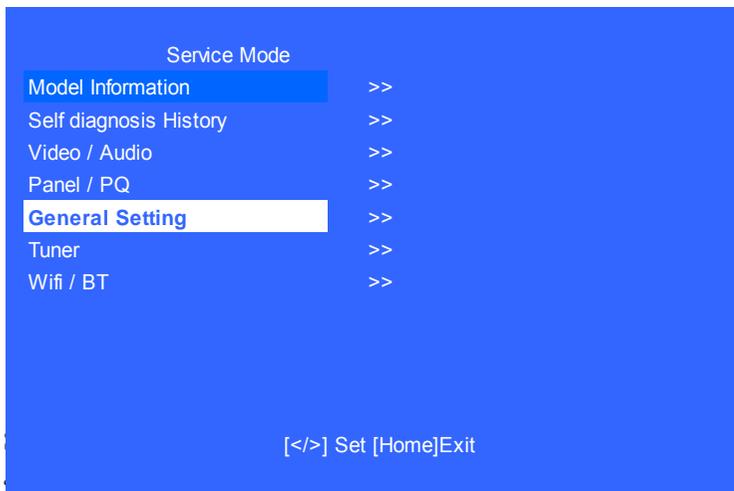


*Please refer to another manual “Service Procedure for Panel, Board and Software Change / Upgrade(P/N:98881800x)” for details.

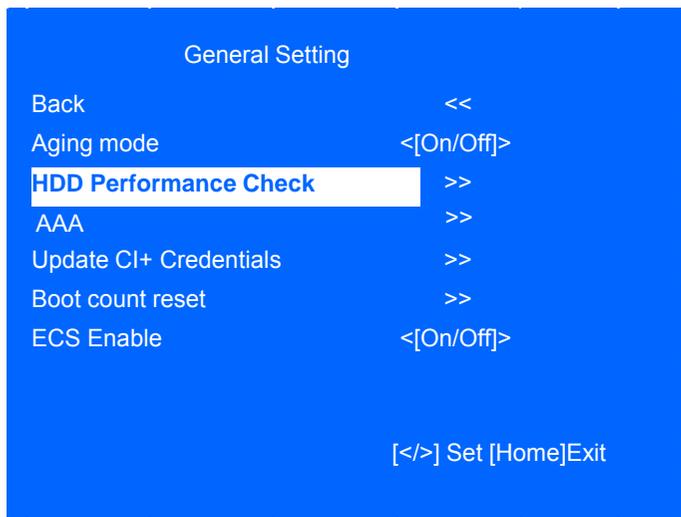
	B-board replace	T-con replace	Panel replace
WB/Gamma	1.T-con to SoC	0.SoC to T-con	0.SoC to T-con
Mura	1.T-con to SoC	0.SoC to T-con	1.T-con to SoC
CUC	1.T-con to SoC	0.SoC to T-con	1.T-con to SoC

HDD PERFORMANCE CHECK

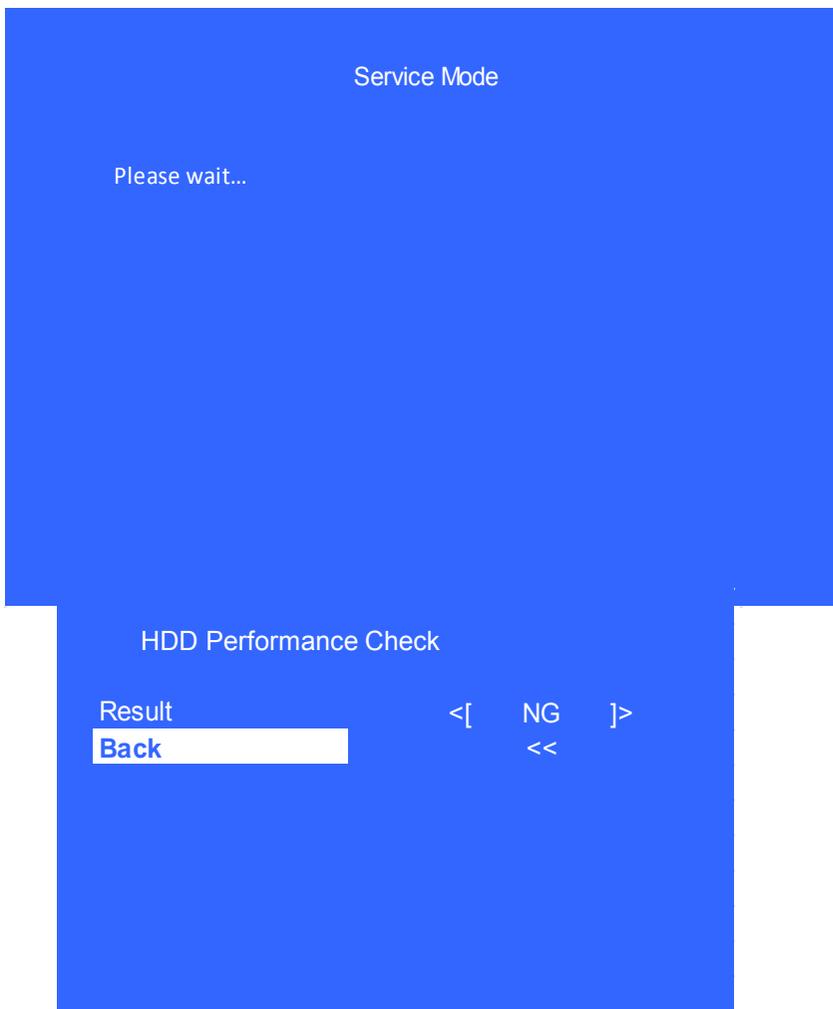
- In "Service Mode", select "General Setting" by pressing "↑" or "↓" then pressing "Enter" or "→" button to enter inside.



-

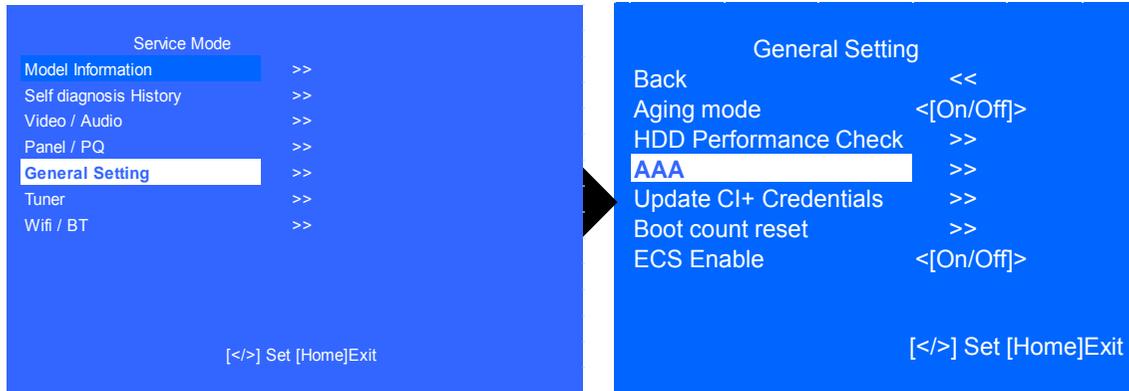


- A message "Please wait ..." is displayed during performance check processing.

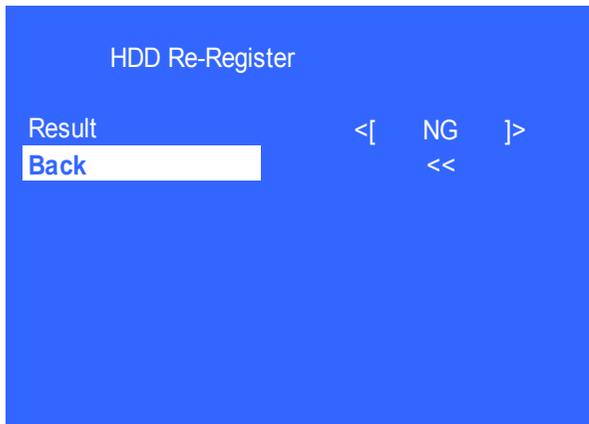


HDD RE-REGISTRATION

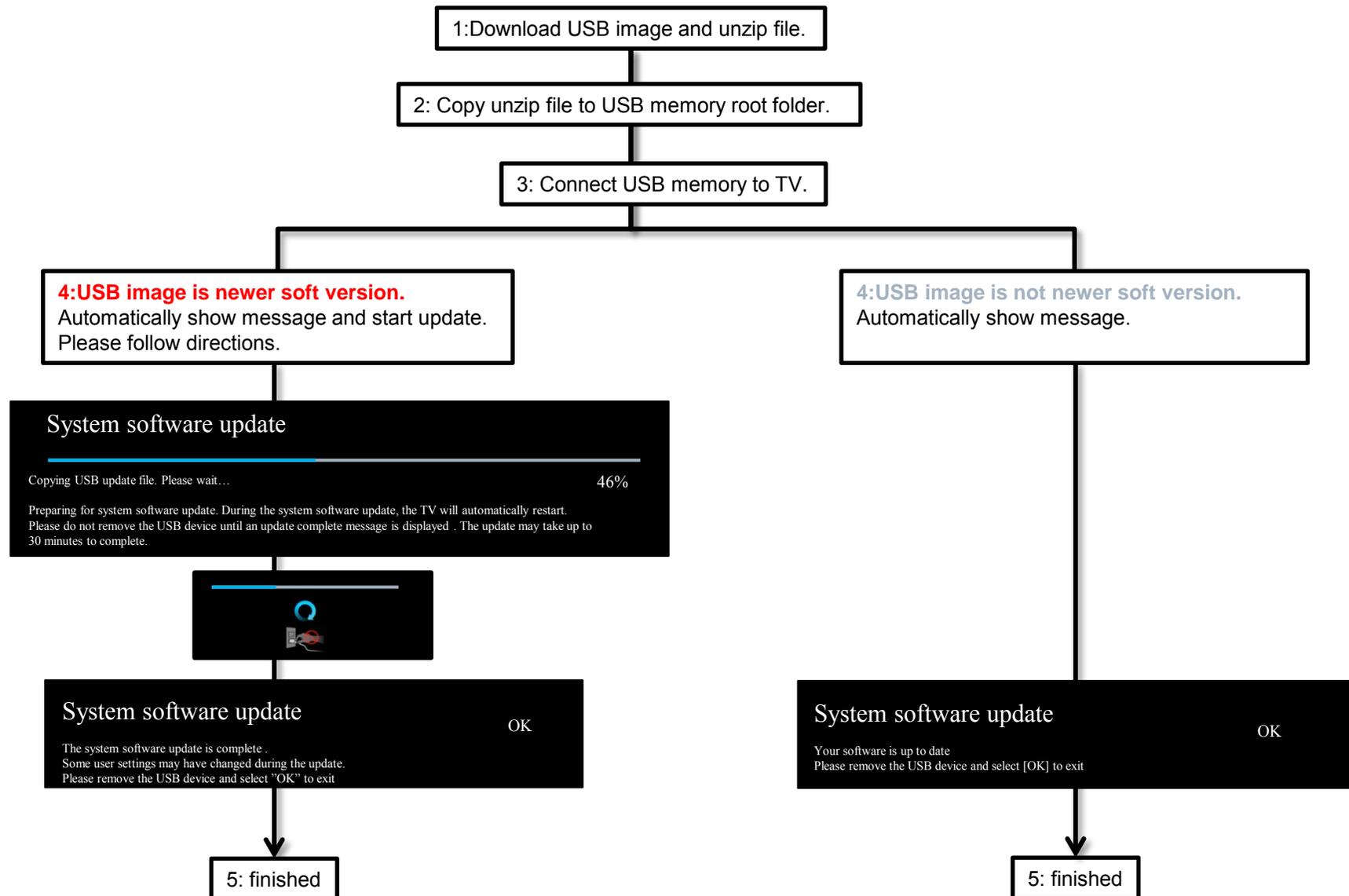
- 1) In “Service Mode”, select “General Setting” by pressing “↑” or “↓” then pressing “Enter” or “→” button to enter inside.
- 2) Select “AAA” by pressing “↑” or “↓” then pressing “Enter” or “→” button to enter inside.



- 3) Result **OK** or **NG** will be displayed after HDD re-registration is succeed/failed.



USB UPDATE



TROUBLE SHOOTING

TRIAGE

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

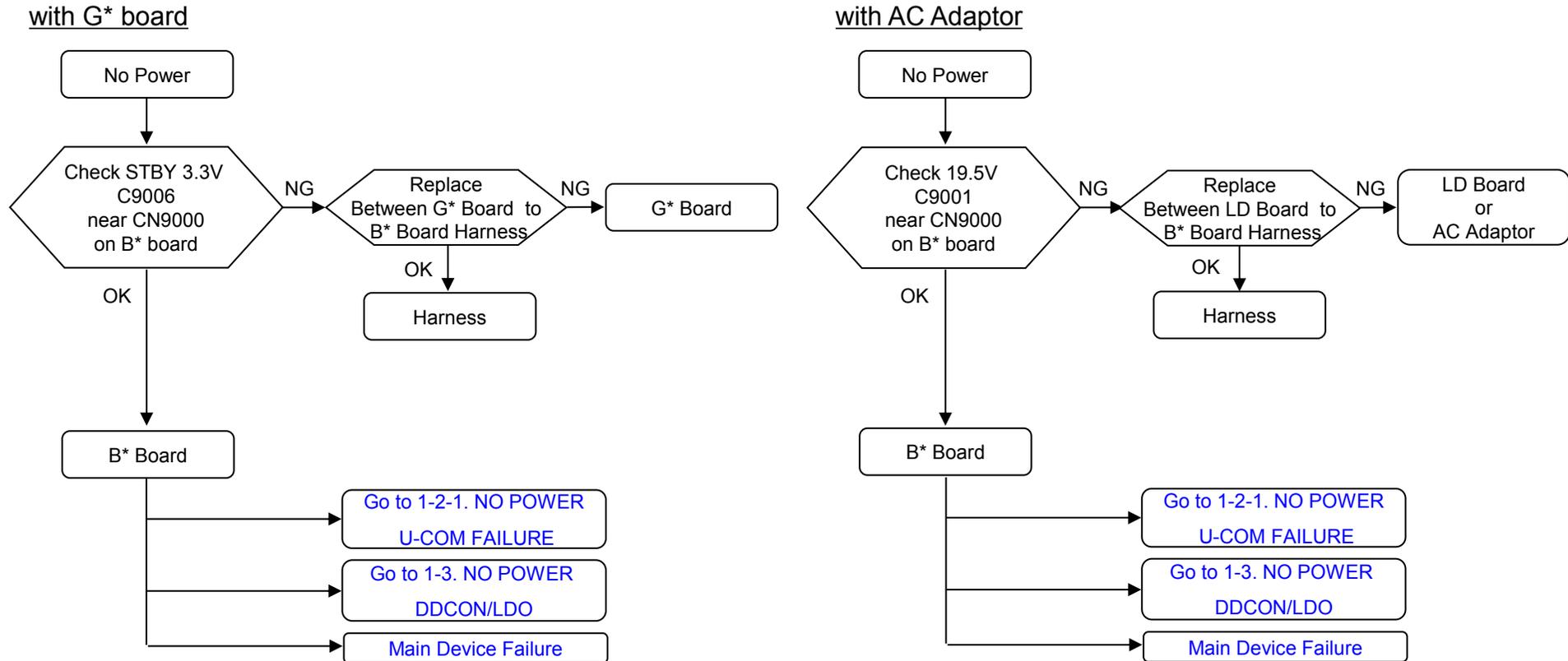
BLACK TEXT: Board that may correct the symptom

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences										No Power	Video - missing or distorted			Remote	Network	Audio	Smart Core	Bluetooth (BT)
	2	3	4	5	6	7	8	9	10	No White Power LED & does not respond to remote (Dead Set)	Stationary colored lines or dots	No video One of Inputs	No video all Inputs	No Remote	Wireless can't connect	No Audio	Smart Core no LED (Set is still alive)	Bluetooth / One Step Remote (OSR) can't connect	
B* Board	▲	●	▲	▲	▲	●	●			▲	▲	●	●	▲	▲	●	▲	▲	
G* Board/ADP	●	▲	▲	▲	●					●						▲			
H* Board										▲				●			●		
Speaker		▲														●			
Wifi & BT Module															●			●	
LD* Board	●	▲	●	▲	●					●			▲			▲			
V By One FFC				▲							▲		▲						
Tcon				●							▲		▲						
LCD Panel			▲	●	●						●		▲						
Problem	Power	Power	LD	Panel (Communication)	Panel (Backlight)	TEMP	Soft-ware												
		Audio				4KBE													

FLOW

1-1. NO POWER

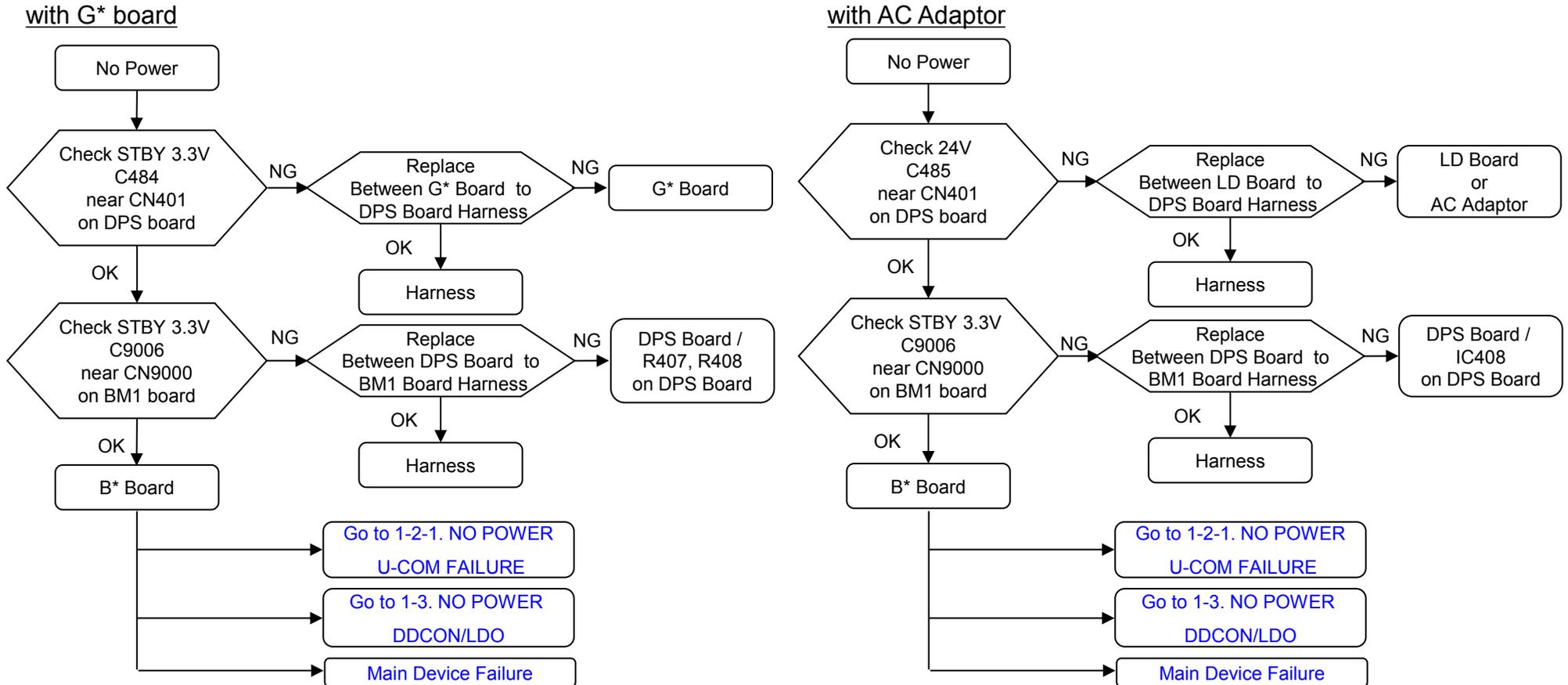
Case: BMFW2 structure



FLOW

1-1. NO POWER

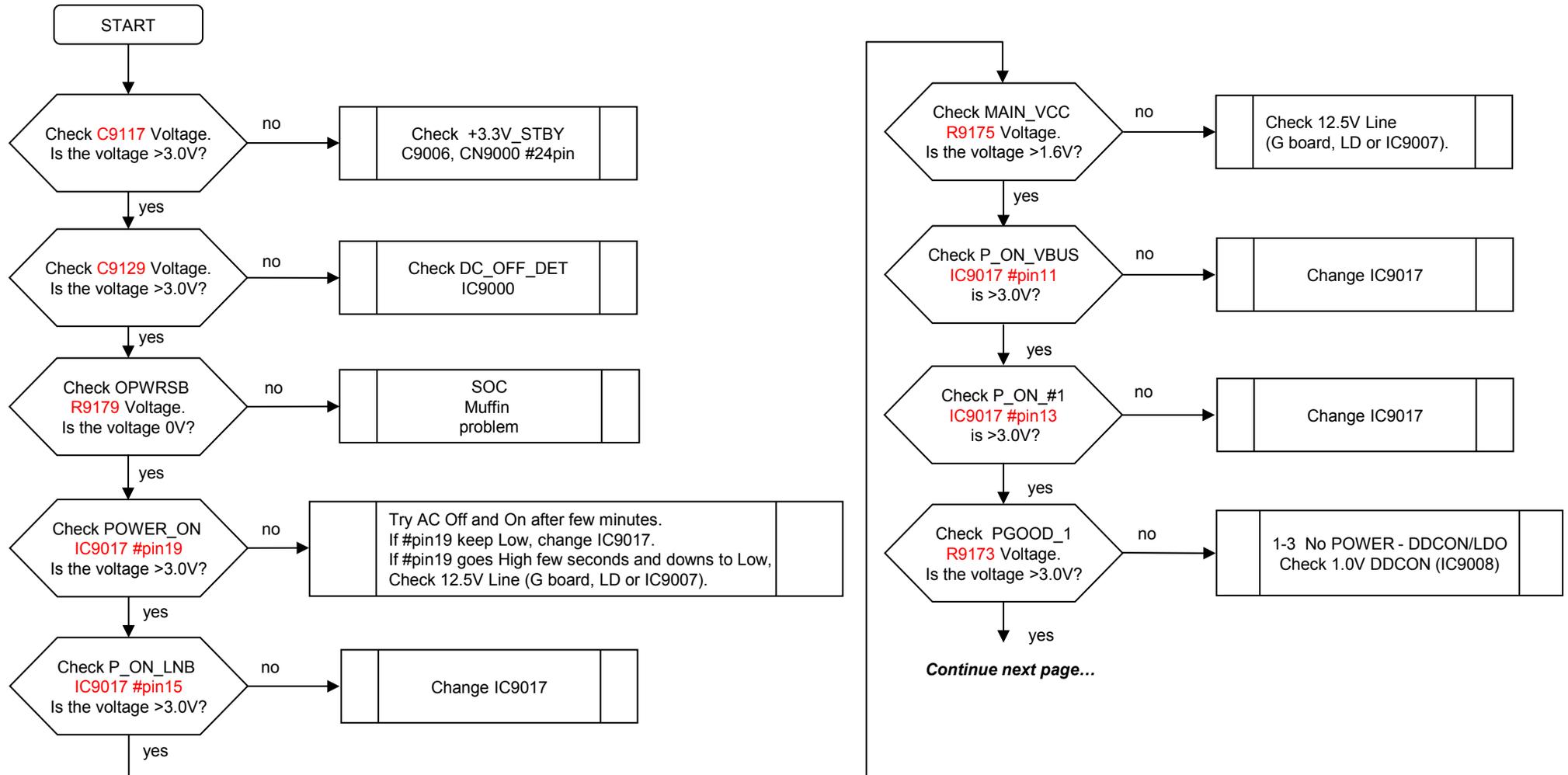
Case: BM1 + DPS structure



FLOW

1-2-1. NO POWER U-COM FAILURE

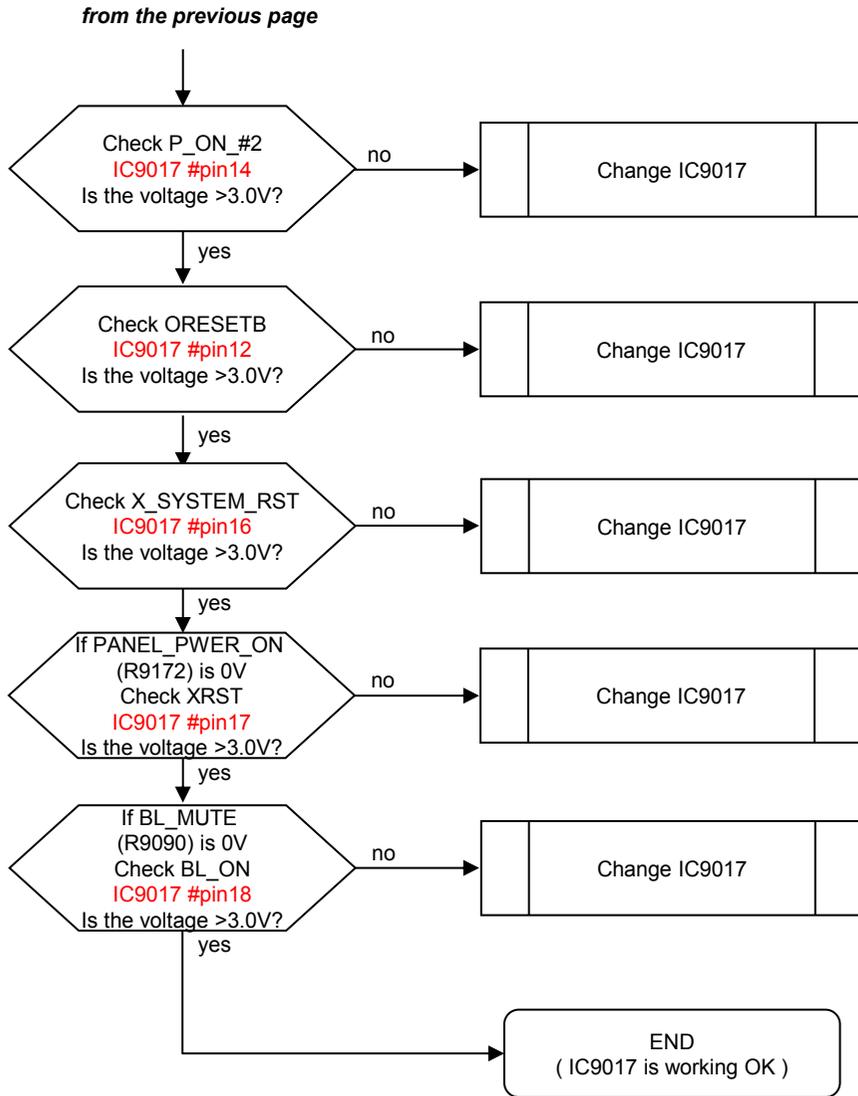
Case: BMFW2 structure



FLOW

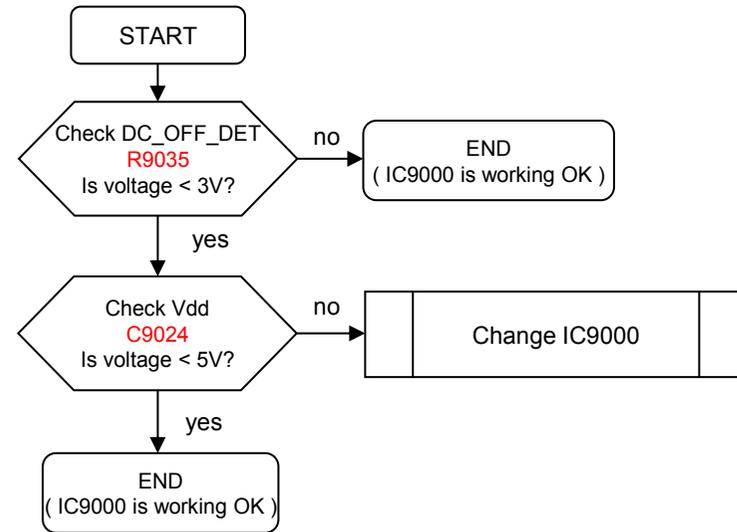
1-2-1. NO POWER U-COM FAILURE

Case: BMFW2 structure



1-2-2. NO POWER DC_OFF_DET CHECK

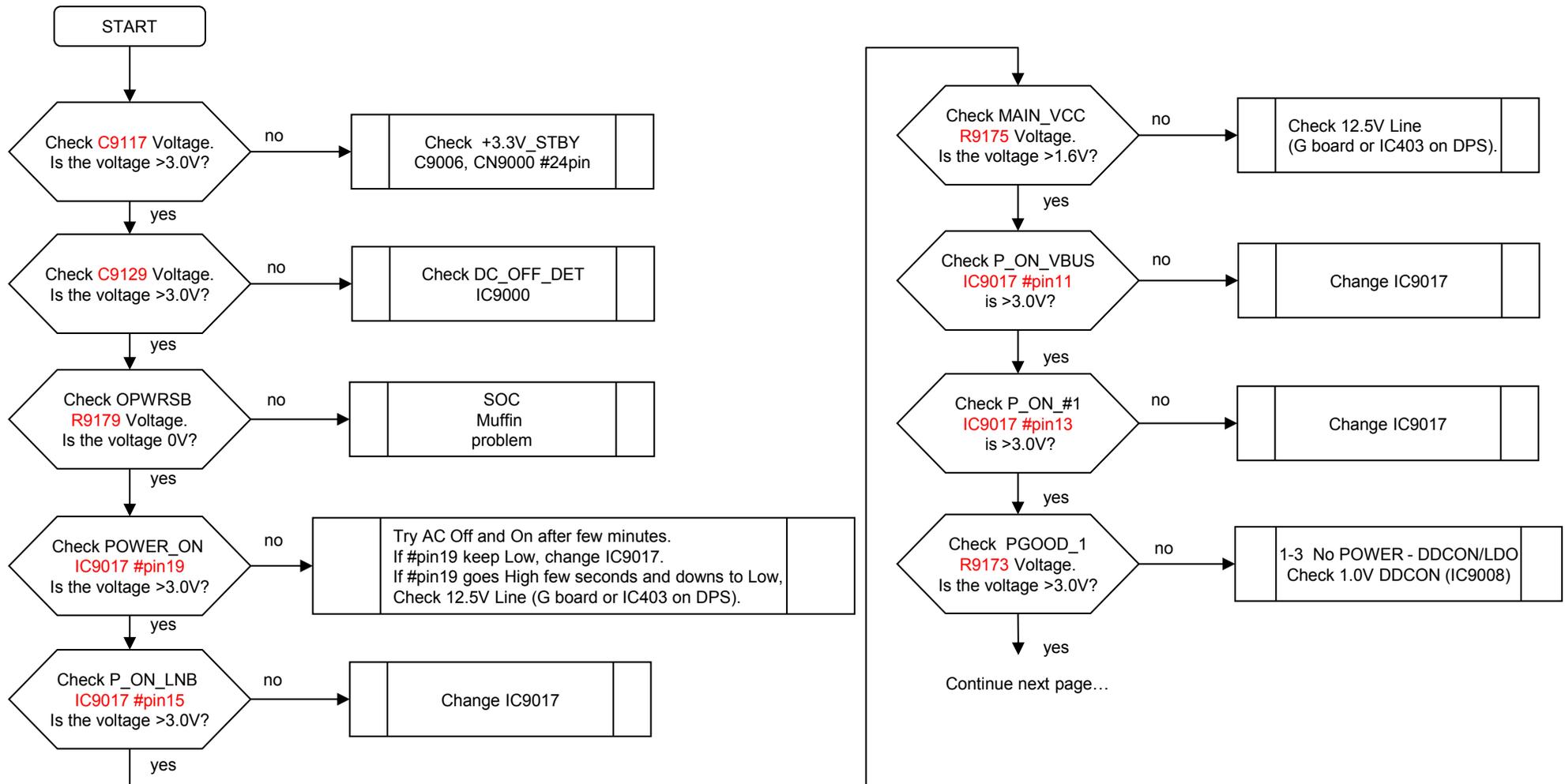
Case: BMFW2 structure



FLOW

1-2-1. NO POWER U-COM FAILURE

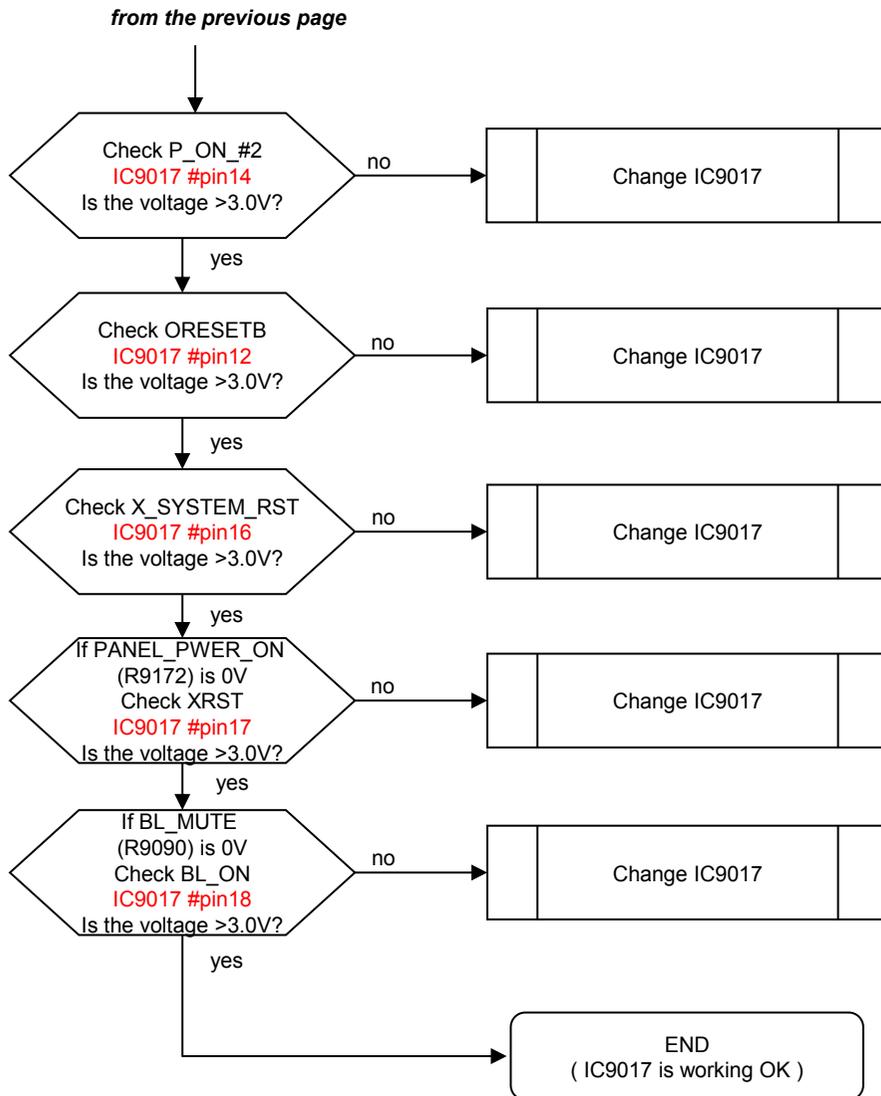
Case: BM1 + DPS structure



FLOW

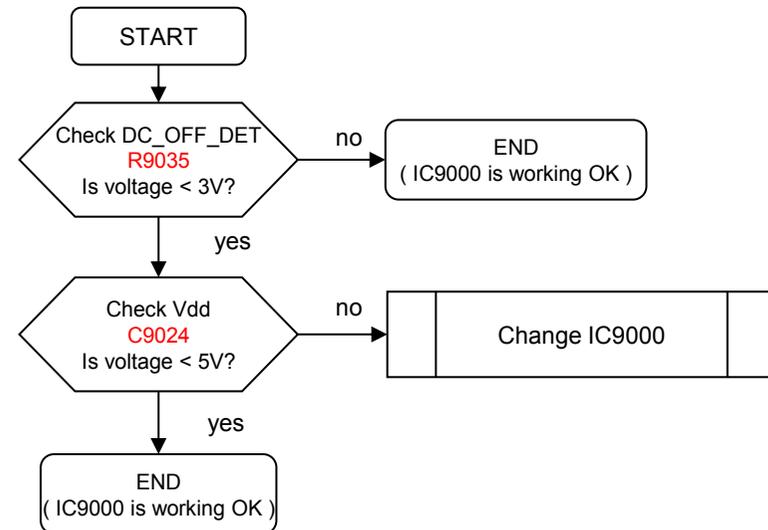
1-2-1. NO POWER U-COM FAILURE

Case: BM1 + DPS structure



1-2-2. NO POWER DC_OFF_DET CHECK

Case: BM1 + DPS structure

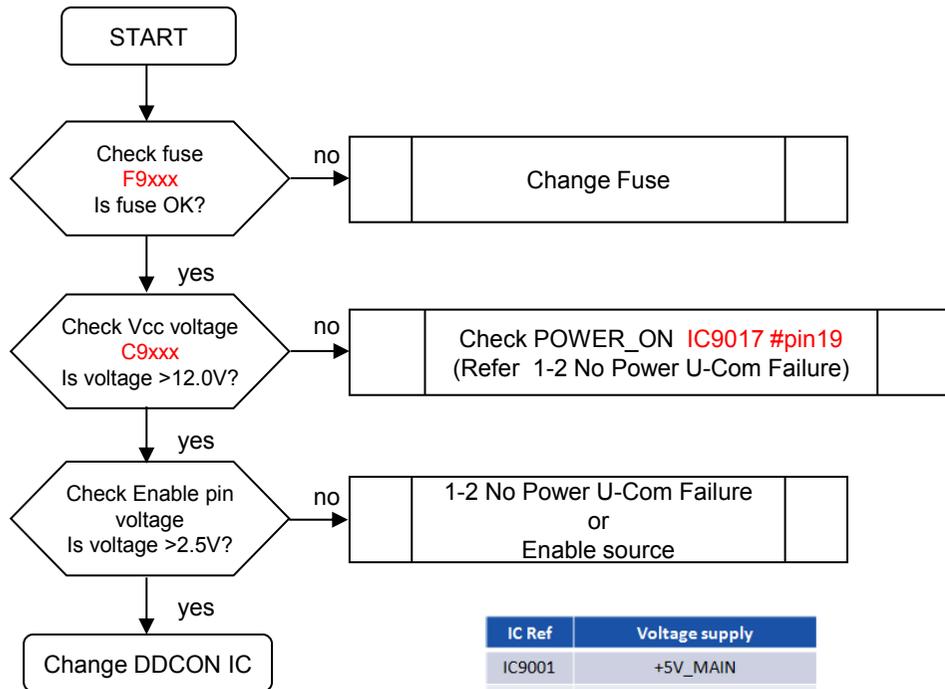


FLOW

1-3. NO POWER DDCON/LDO

Case: BMFW2 structure

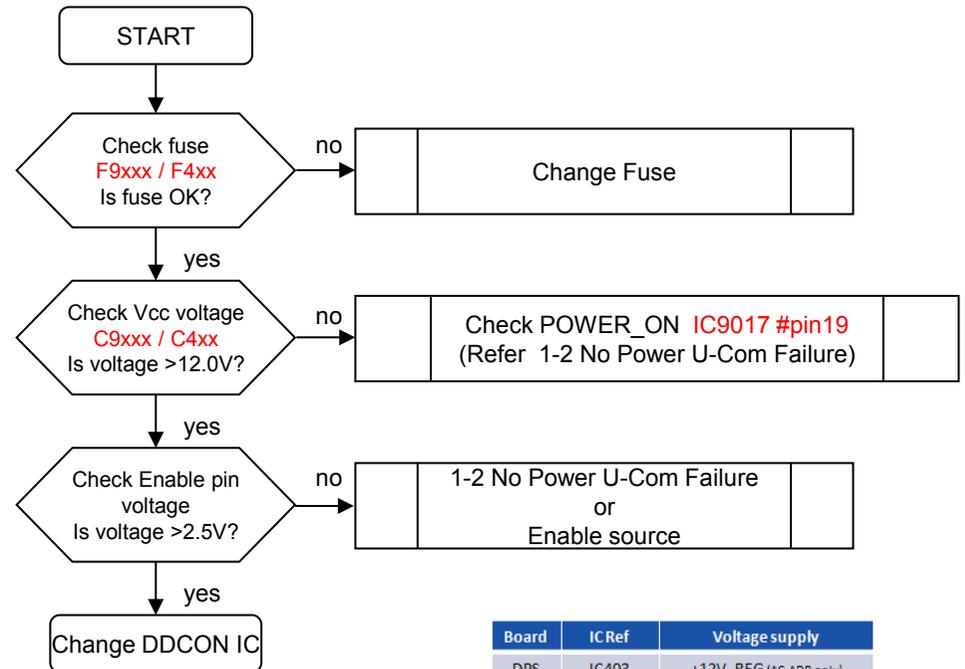
DDCONs check



IC Ref	Voltage supply
IC9001	+5V_MAIN
IC9002	+1.0V_HDMI
IC9003	+3.3V_DDC_OUT
IC9005	+1.8V_TU
IC9006	+1.1V_TU_SKP (J only)
IC9007	+12V_REG (AEP/J AC-ADP only)
IC9008	+1.0V_MUF
IC9014	+5.0V_VBUS
IC9401	+1.1V_SAGI
IC9403	+1.5V_SAGI

Case: BM1 + DPS structure

DDCONs check



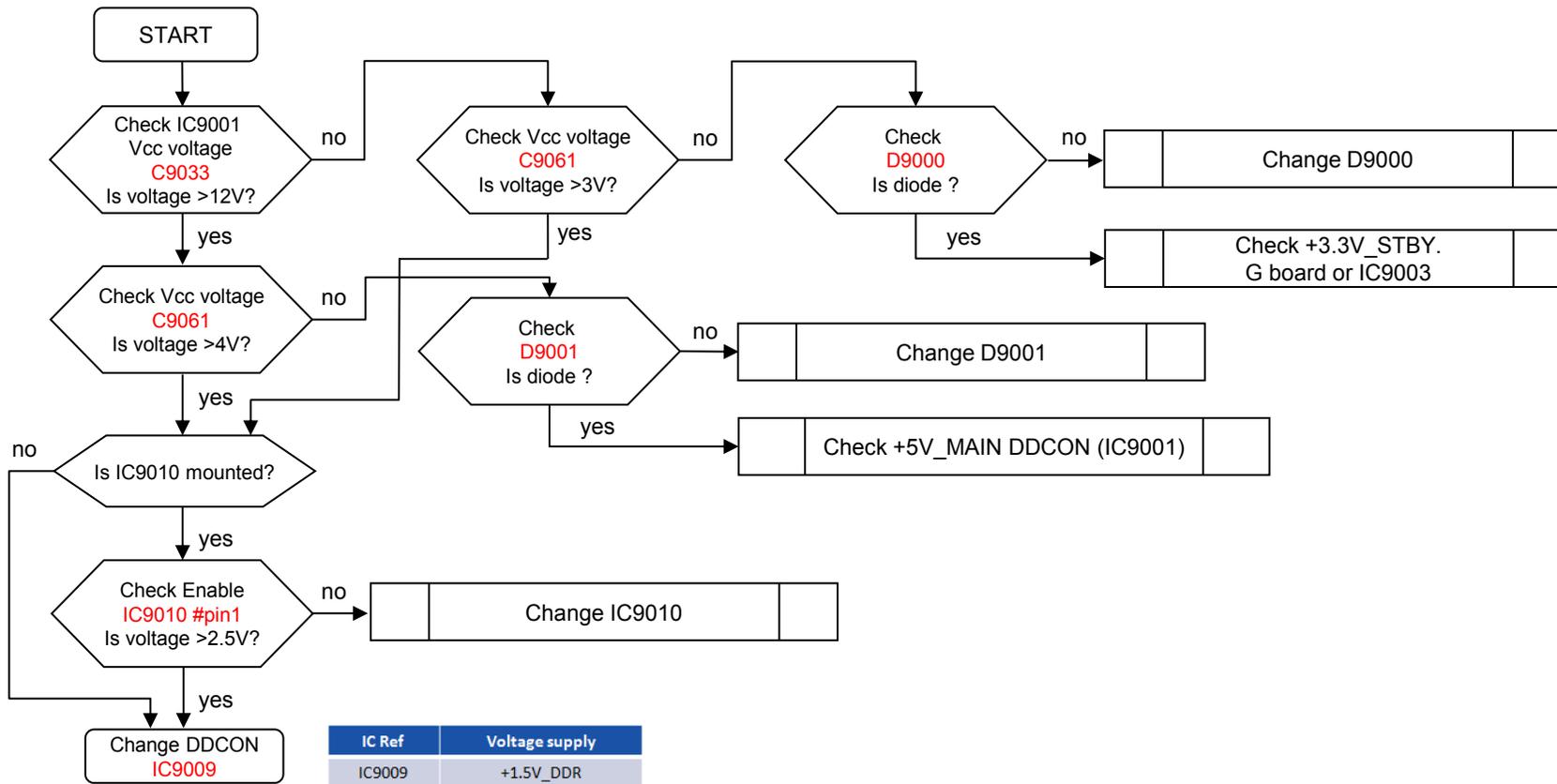
Board	IC Ref	Voltage supply
DPS	IC403	+12V_REG (AC-ADP only)
DPS	IC408	+3.3V_STBY (AC-ADP only)
DPS	IC409	+3.3V_MAIN
DPS	IC9401	+1.1V_SAGI
DPS	IC9403	+1.5V_SAGI
BM1	IC9001	+5V_MAIN
BM1	IC9002	+1.0V_HDMI
BM1	IC9005	+1.8V_TU
BM1	IC9006	+1.1V_TU_SKP (J only)
BM1	IC9008	+1.0V_MUF
BM1	IC9014	+5.0V_VBUS

FLOW

1-3. NO POWER DDCON/LDO

Case: BMFW2 structure

DDCON check

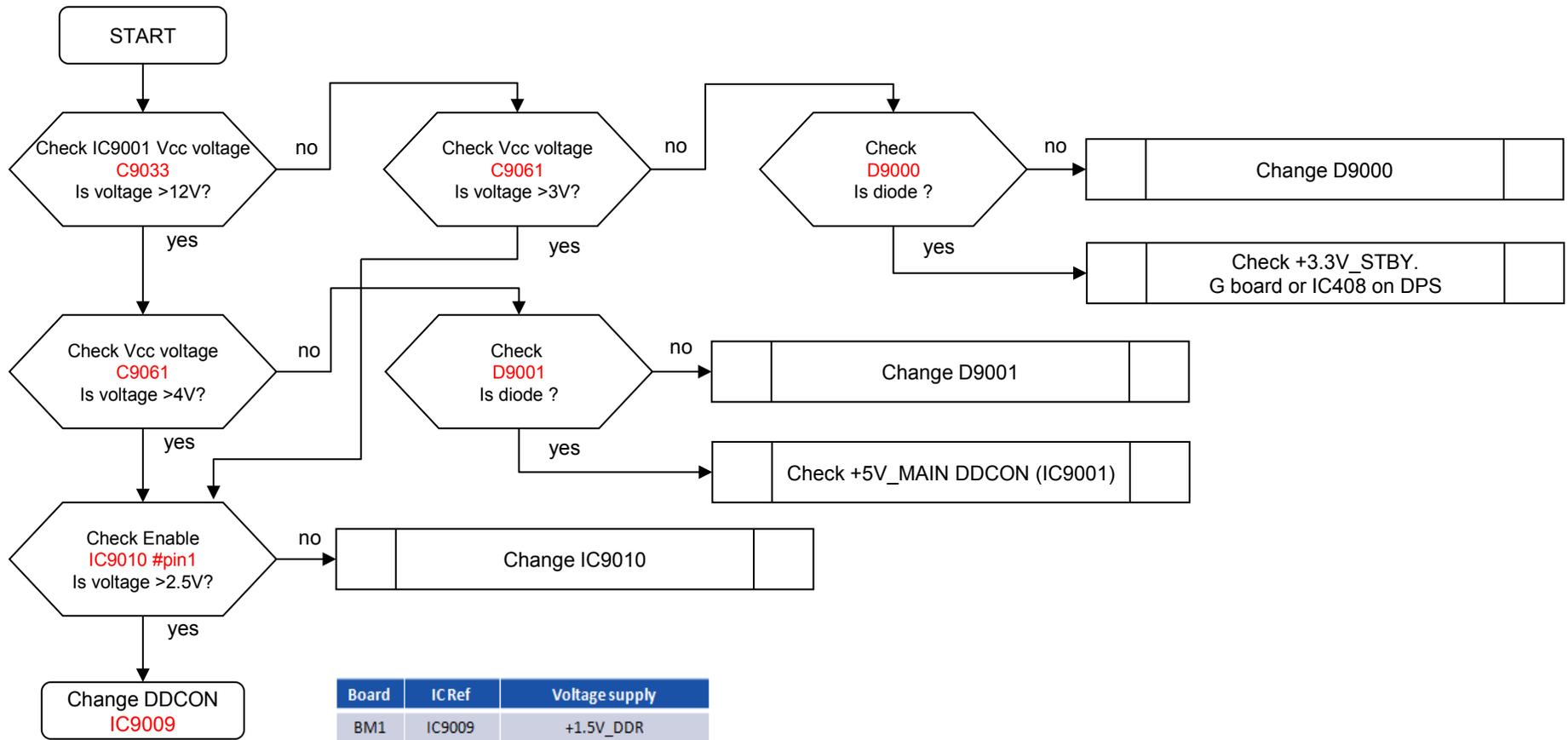


FLOW

1-3. NO POWER DDCON/LDO

Case: BM1 + DPS structure

DDCON check



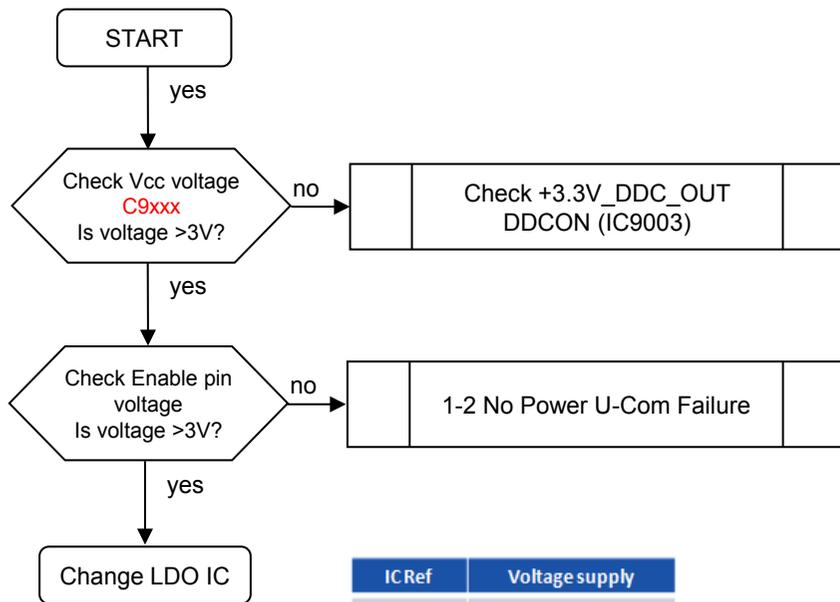
Board	ICRef	Voltage supply
BM1	IC9009	+1.5V_DDR

FLOW

1-3. NO POWER DDCON/LDO

Case: BMFW2 structure

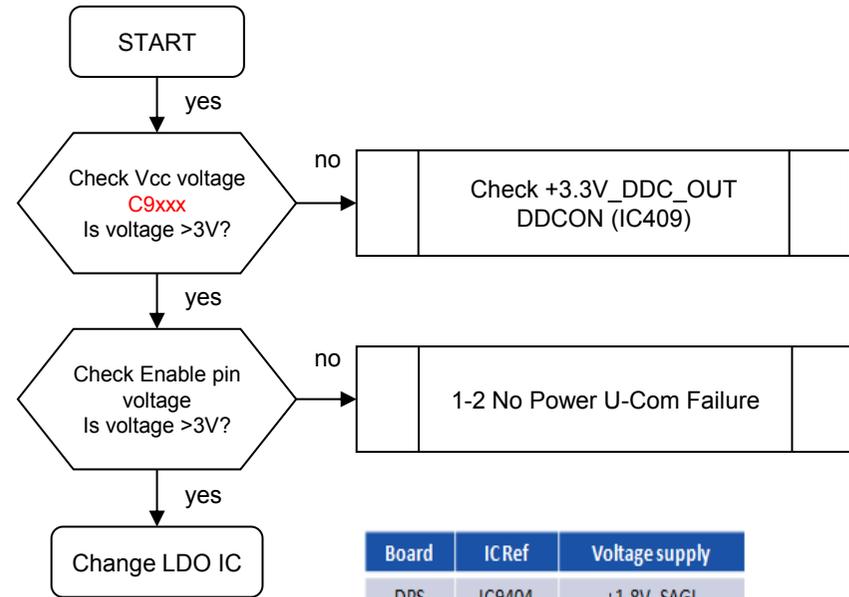
LDOs check



ICRef	Voltage supply
IC9004	+1.05V_MUF_A
IC9404	+1.8V_SAGI
IC9405	+2.5V_SAGI

Case: BM1 + DPS structure

LDOs check

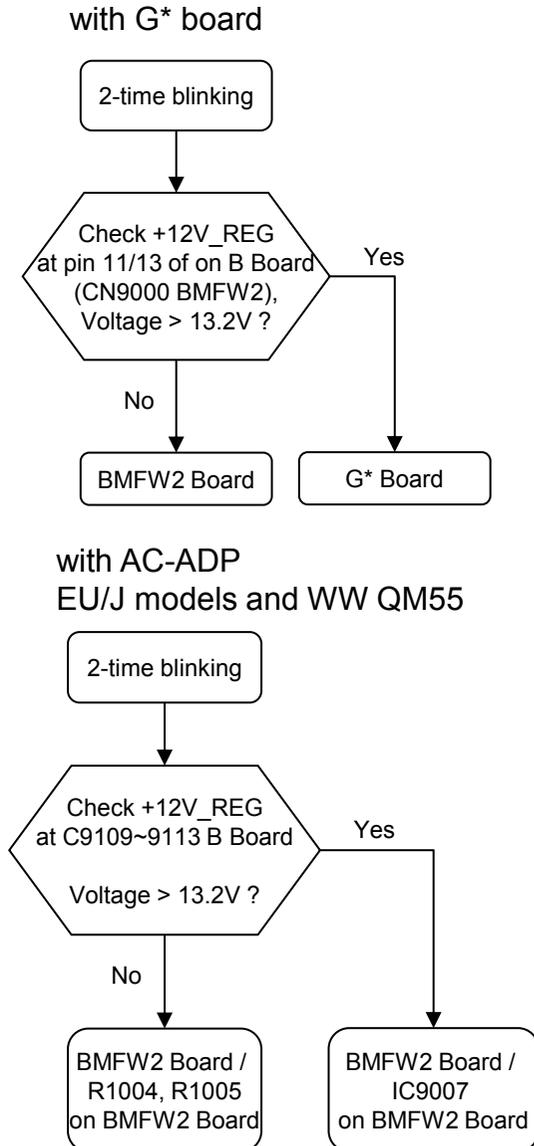


Board	IC Ref	Voltage supply
DPS	IC9404	+1.8V_SAGI
DPS	IC9405	+2.5V_SAGI
BM1	IC9004	+1.05V_MUF_A

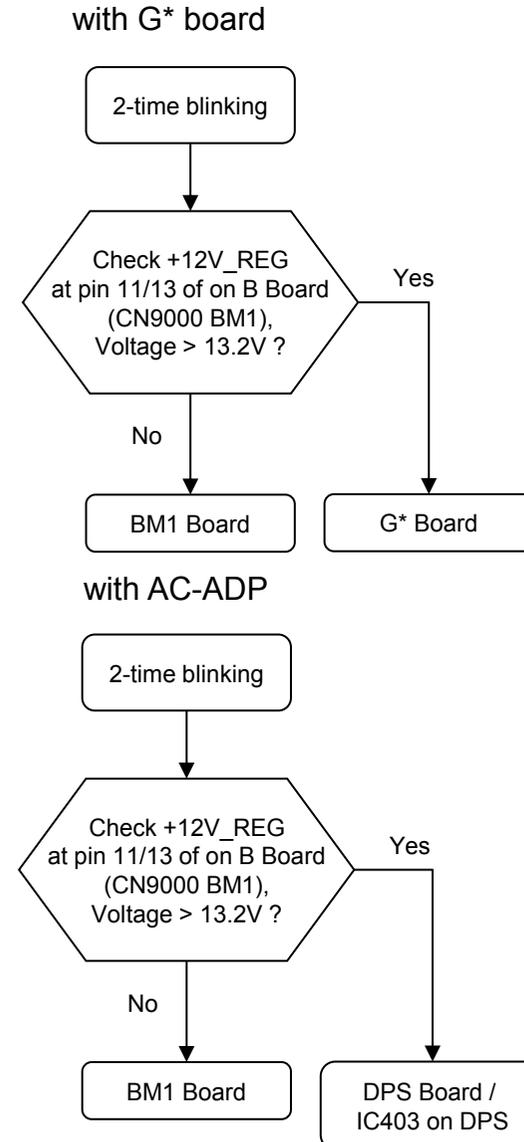
FLOW

2-1. LED BLINKING 2X (MAIN POWER ERROR)

Case: BMFW2 structure

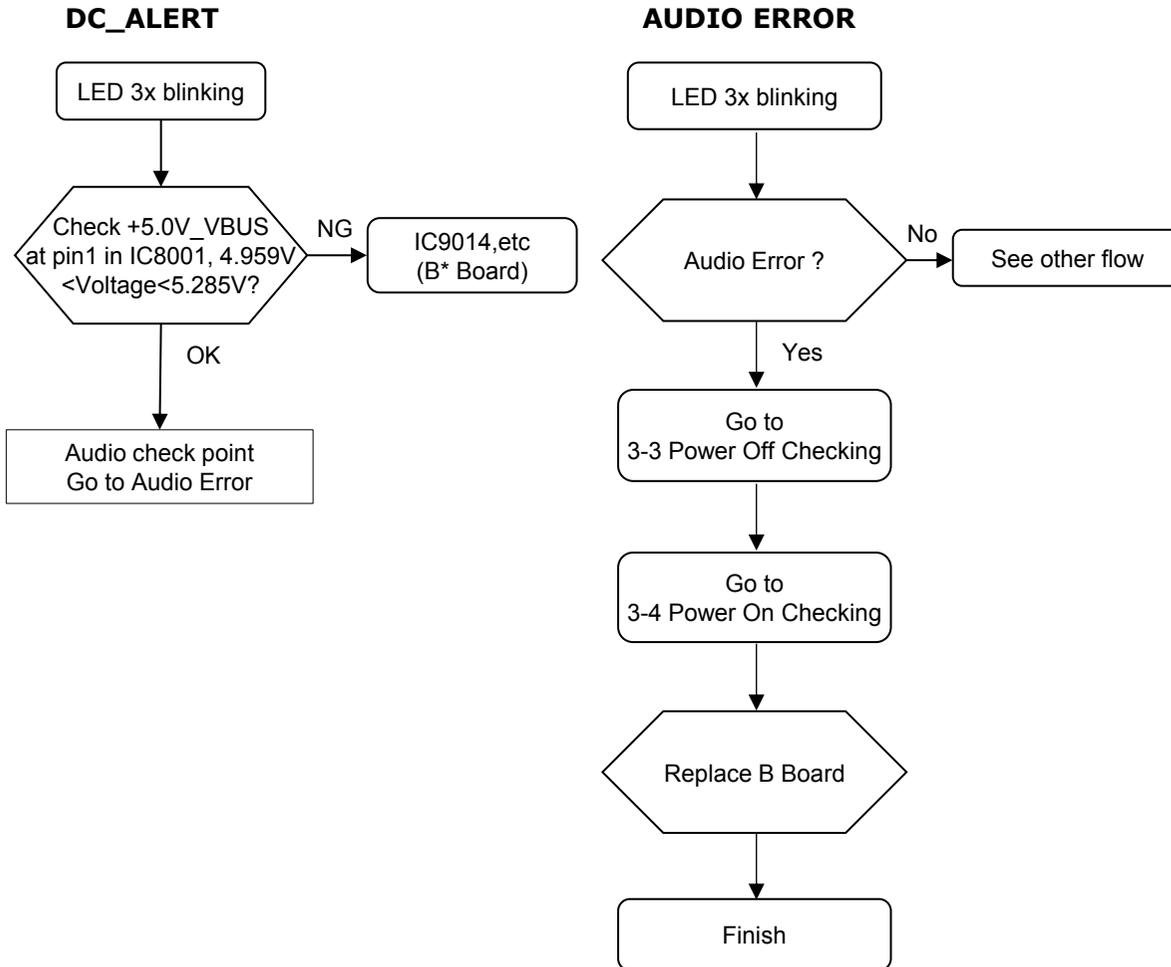


Case: BM1 + DPS structure

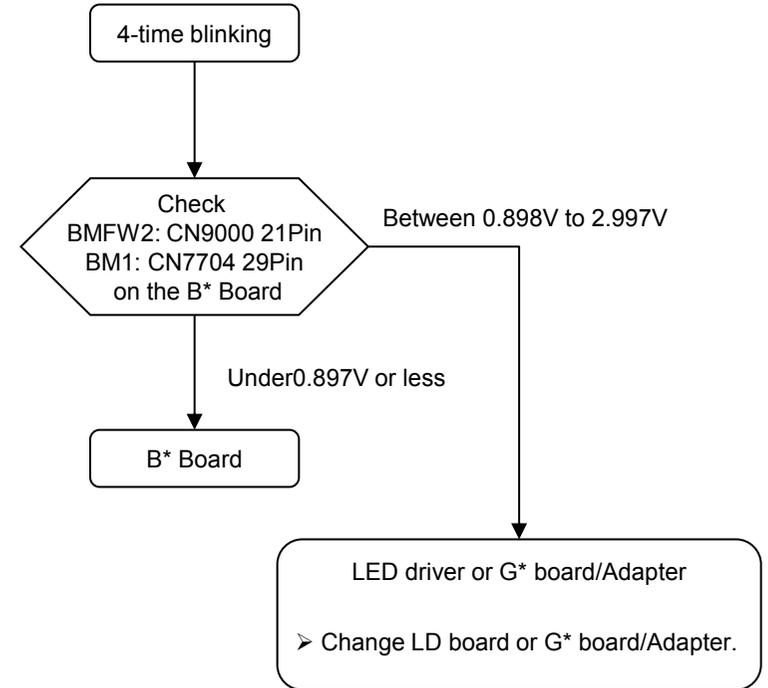


FLOW

2-2. LED BLINKING 3X



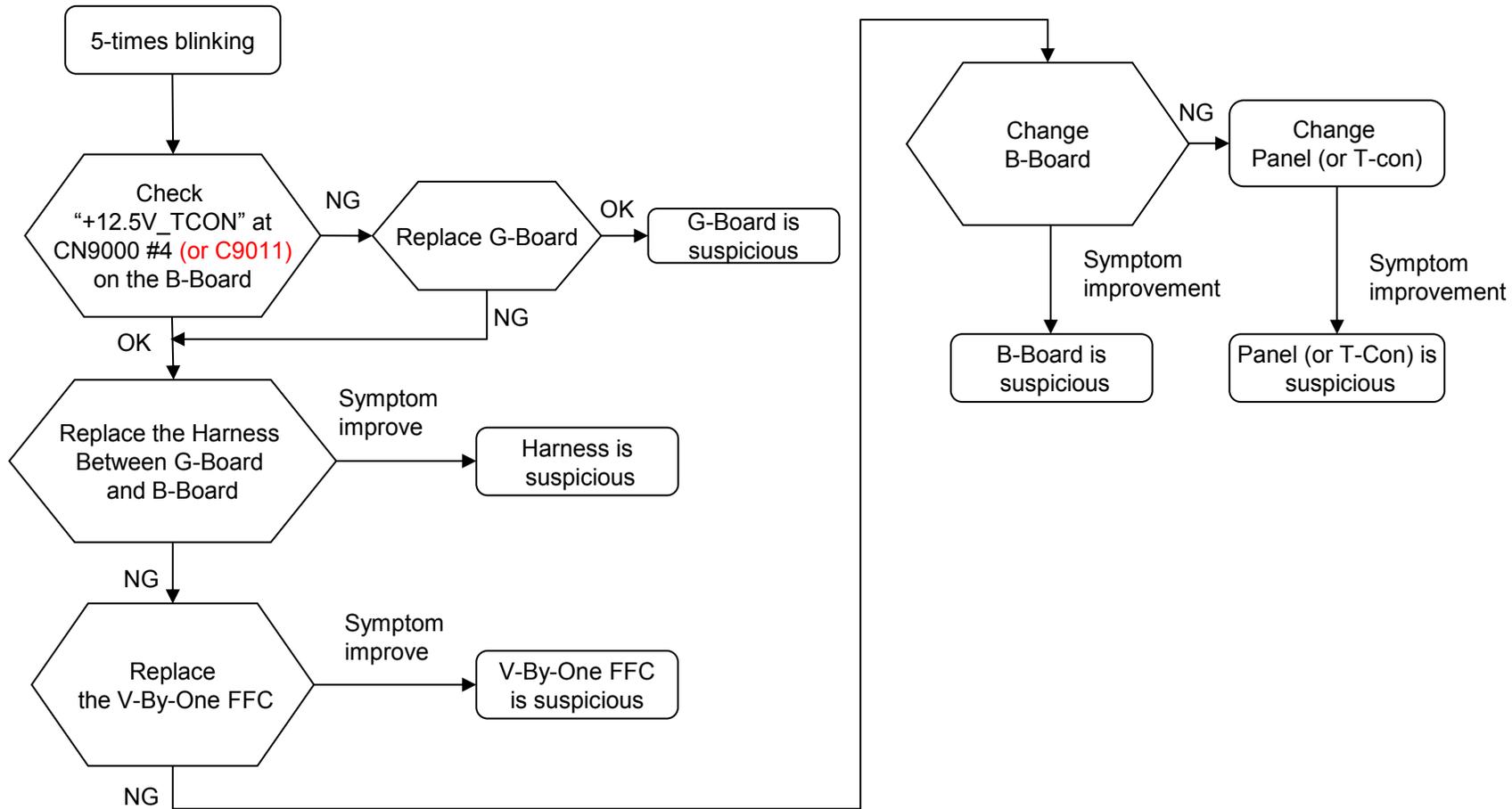
2-3. LED BLINKING 4X (LED VOLTAGE ERROR)



FLOW

2-4. LED BLINKING 5X (PANEL COMMUNICATION ERROR)

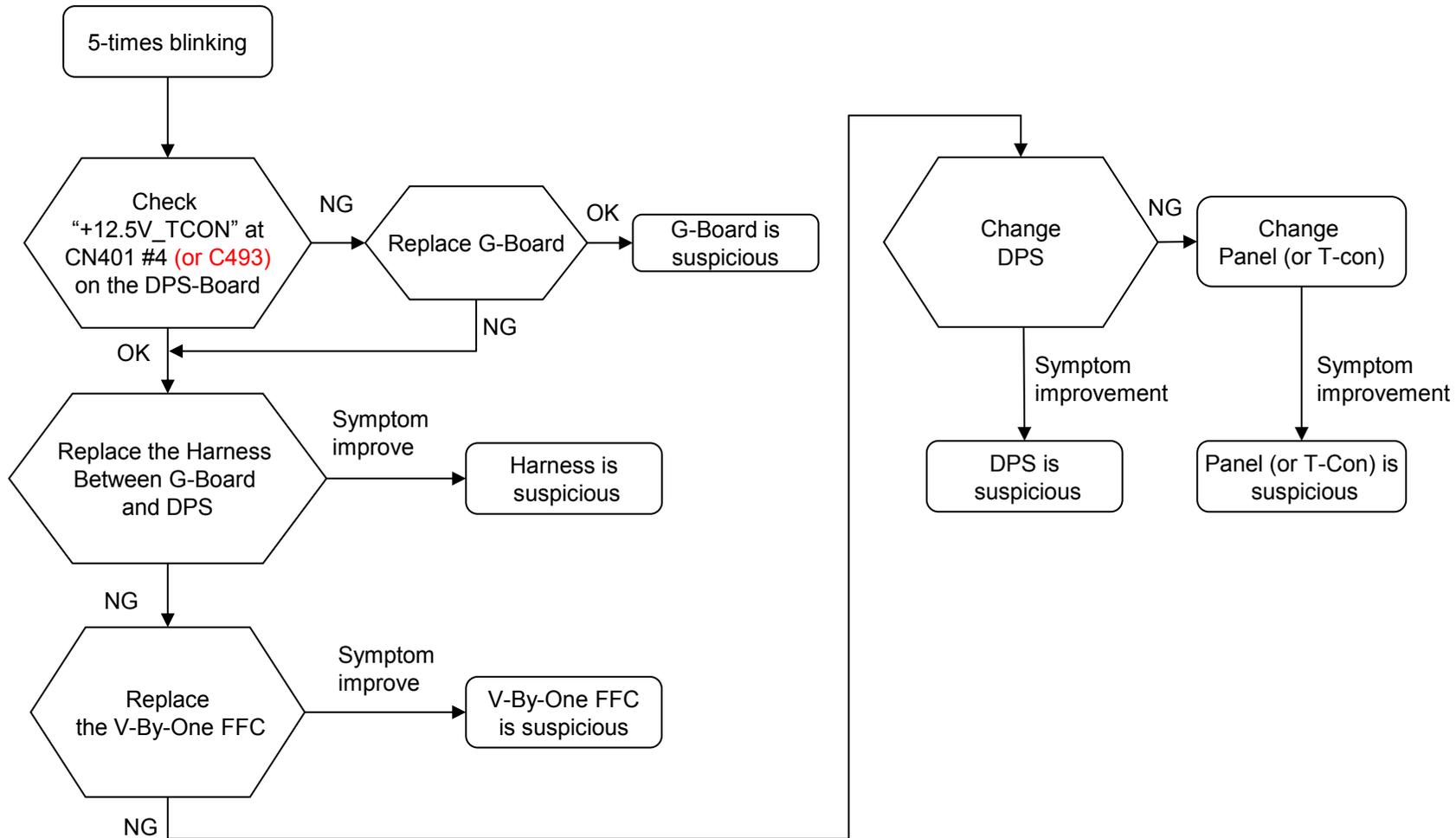
Case: BMFW2 structure



FLOW

2-4. LED BLINKING 5X (PANEL COMMUNICATION ERROR)

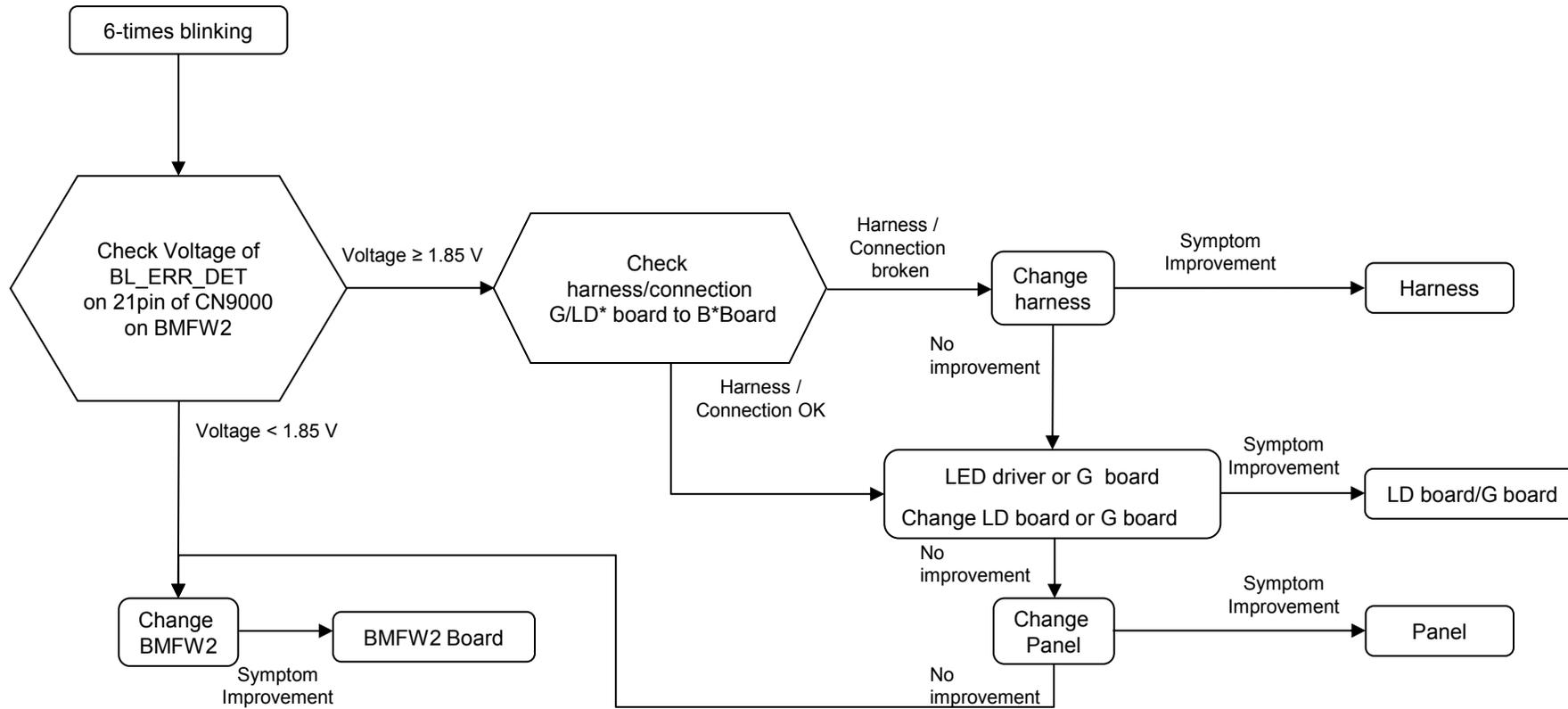
Case: BM1 + DPS structure



FLOW

2-5. LED BLINKING 6X (BACKLIGHT ERROR)

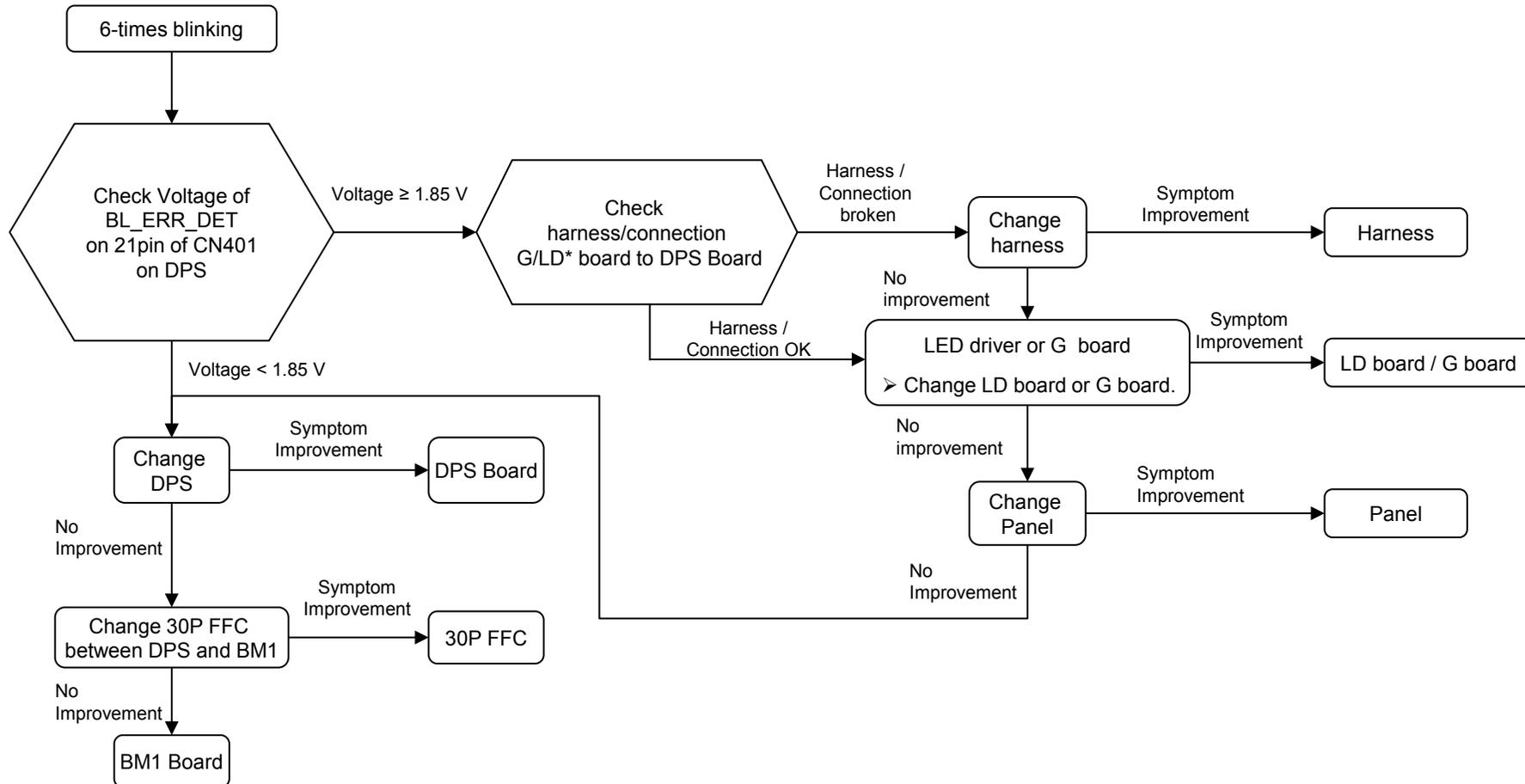
Case: BMFW2 structure



FLOW

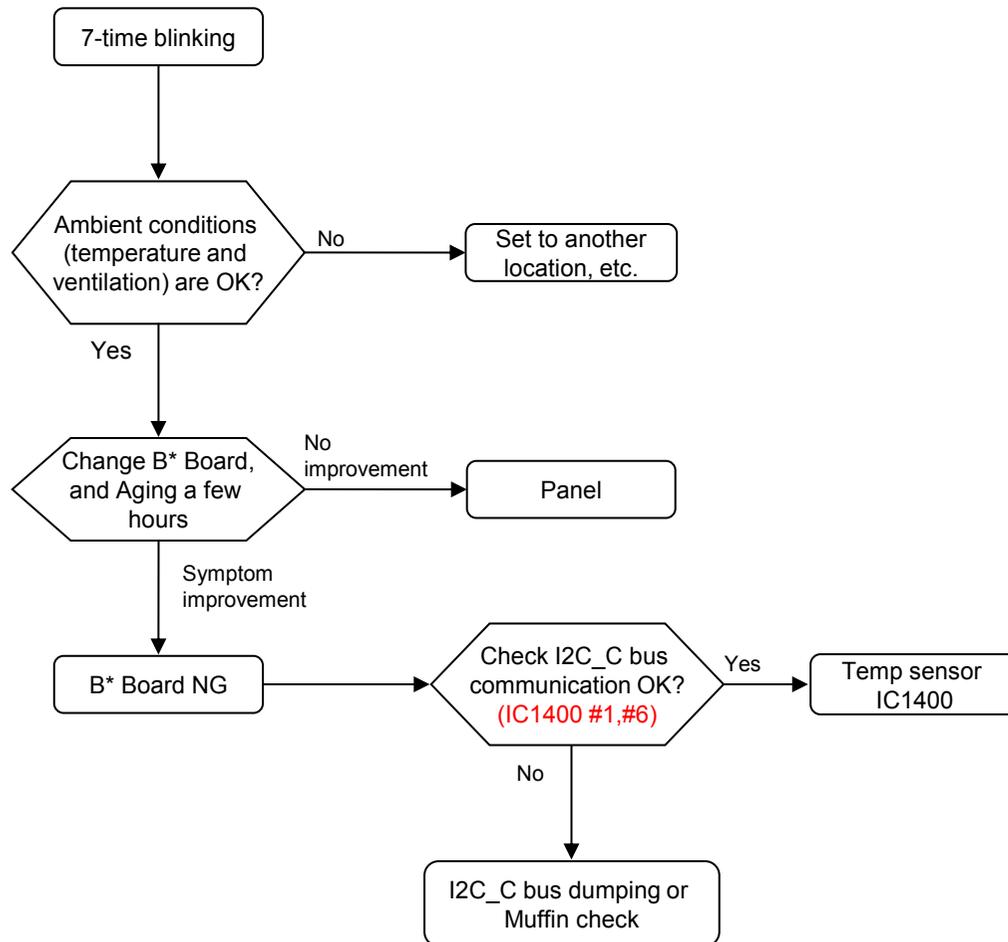
2-5. LED BLINKING 6X (BACKLIGHT ERROR)

Case: BM1 + DPS structure



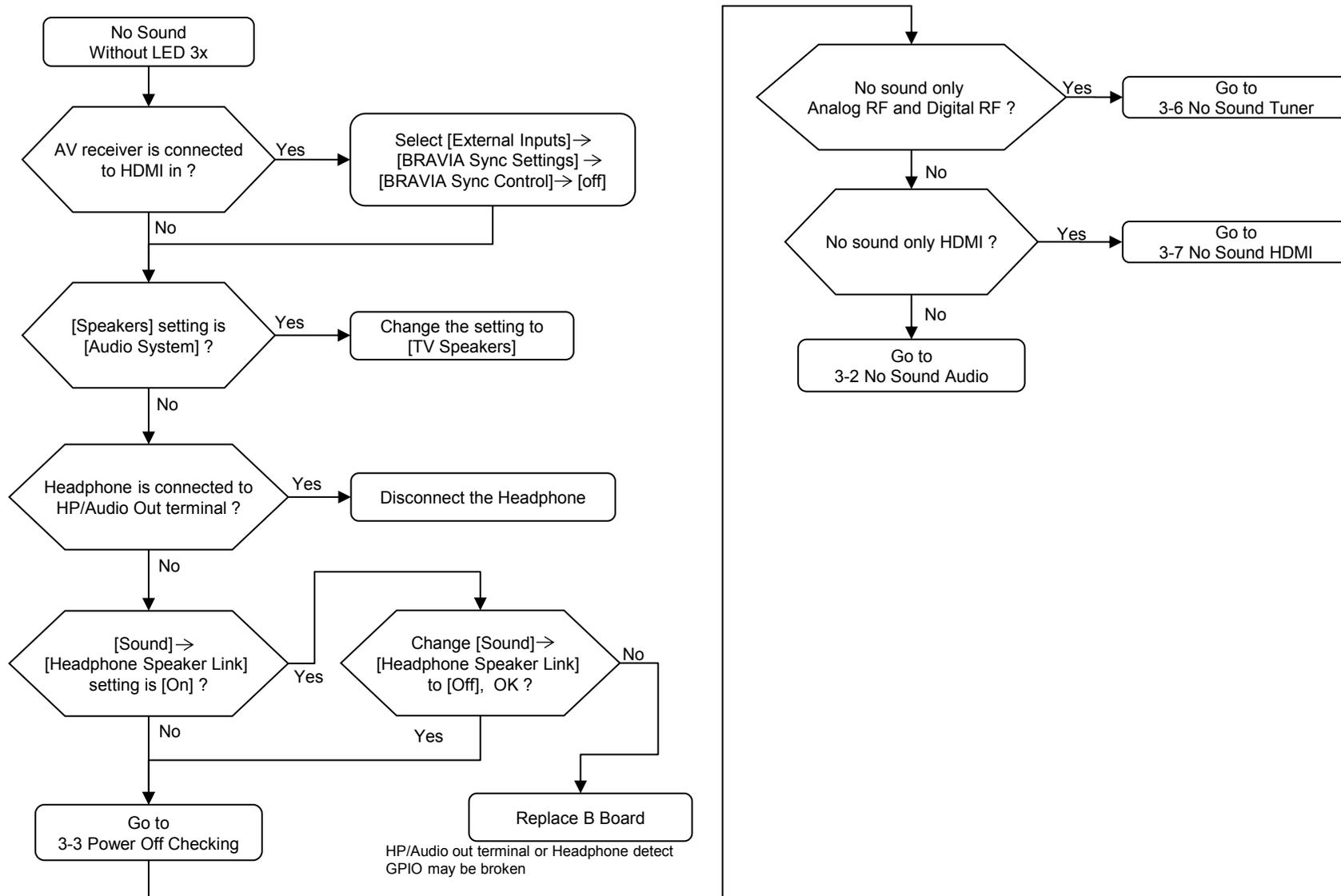
FLOW

2-6. LED BLINKING 7X (TEMPERATURE ERROR)



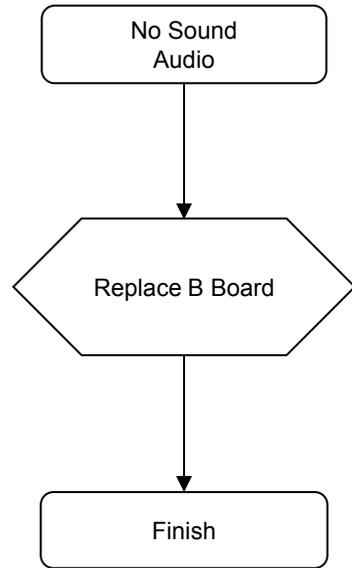
FLOW

3-1. NO SOUND

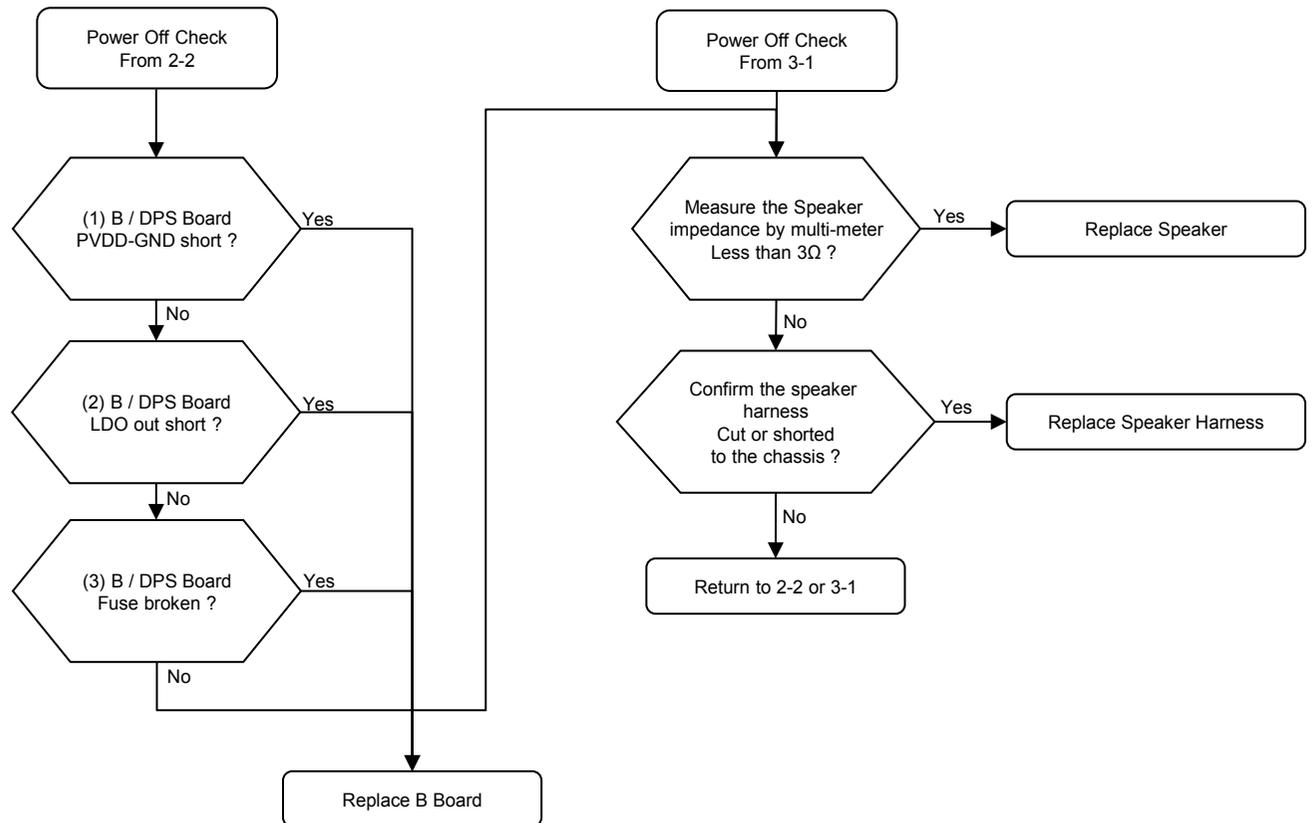


FLOW

3-2. NO SOUND (AUDIO)



3-3. NO SOUND (POWER OFF CHECK)



BMFW2 Board

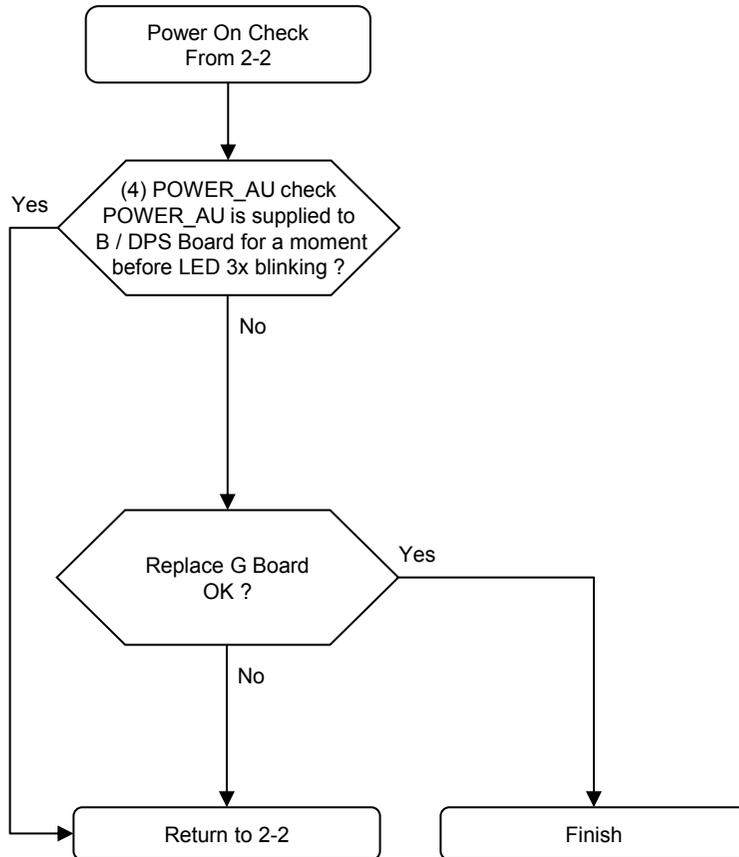
- (1) PVDD-GND short check
Measure impedance between PVDD and GND at capacitor C7881.
If impedance is <math><100\Omega</math> \rightarrow NG
- (2) LDO out short check
Measure impedance between +3.3V and GND at C7880.
If impedance is <math><100\Omega</math> \rightarrow NG
- (3) Fuse open check
Measure impedance of fuse F7702 5A (12.5V or 19.5V)
If fuse open \rightarrow NG

DPS Board

- (1) PVDD-GND short check
Measure impedance between PVDD and GND at capacitor C7932, C7914.
If impedance is <math><100\Omega</math> \rightarrow NG
- (2) LDO out short check
Measure impedance between +3.3V and GND at C7913, C7931.
If impedance is <math><100\Omega</math> \rightarrow NG
- (3) Fuse open check
Measure impedance of fuse F7700, F7701 5A (12.5V or 19.5V)
If fuse open \rightarrow NG

FLOW

3-4. NO SOUND (POWER ON CHECK)



BMFW2 Board

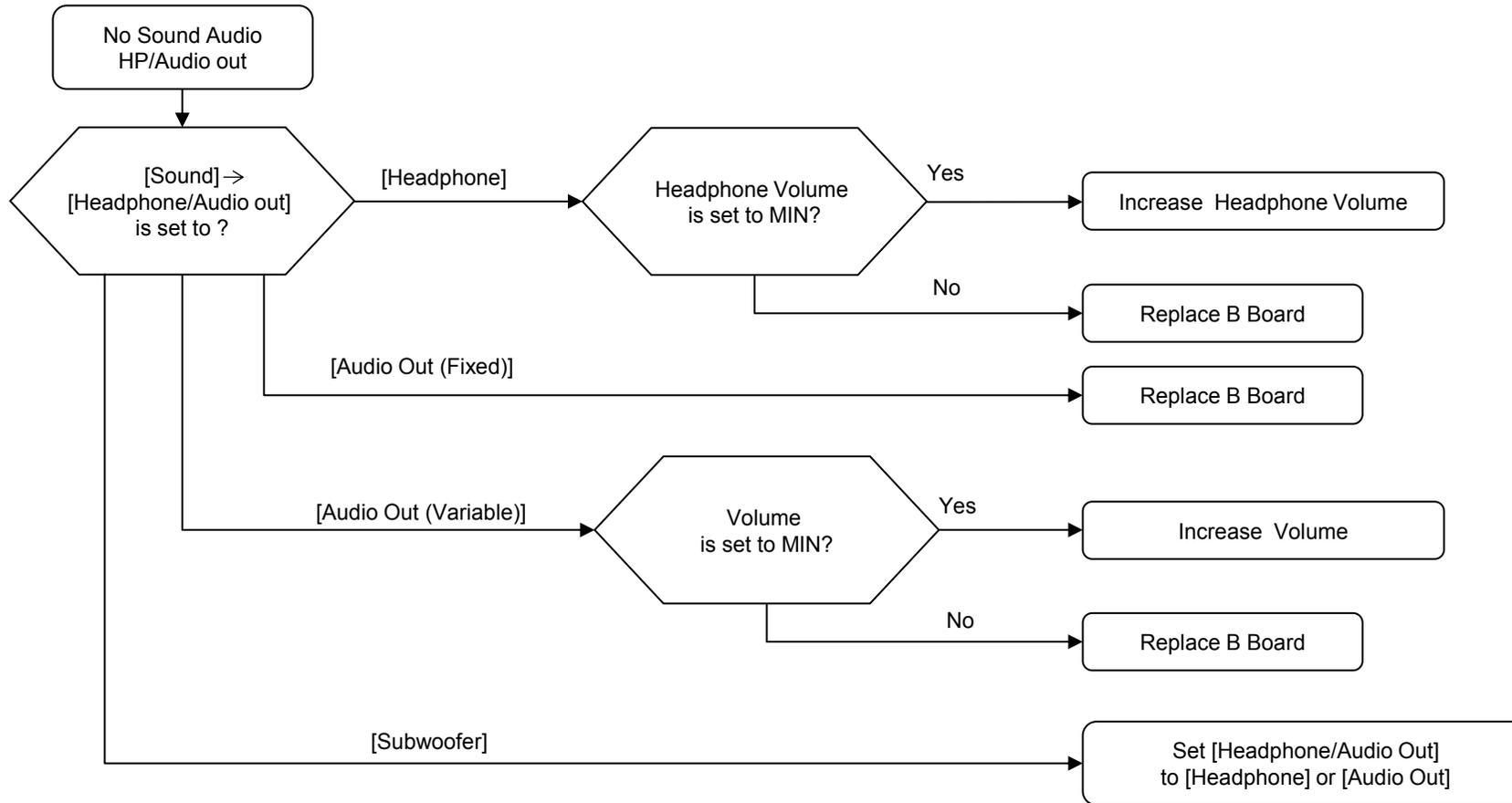
(4) POWER_AU check
 Measure voltage between PVDD and GND at capacitor C7881.
 Voltage rise more than 0V for a moment at power on → Yes

DPS Board

(4) POWER_AU check
 Measure voltage between PVDD and GND at capacitor C7932, C7914.
 Voltage rise more than 0V for a moment at power on → Yes

FLOW

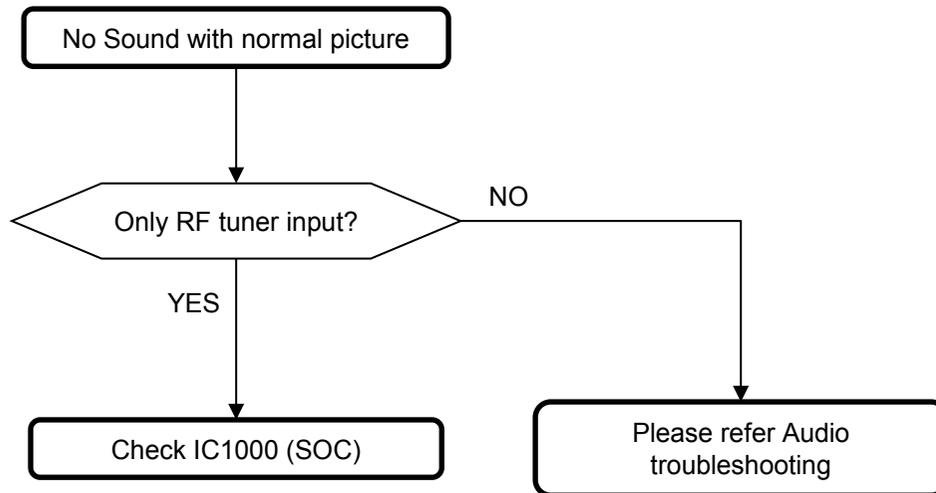
3-5. NO SOUND (AUDIO HP/AUDIO OUT)



FLOW

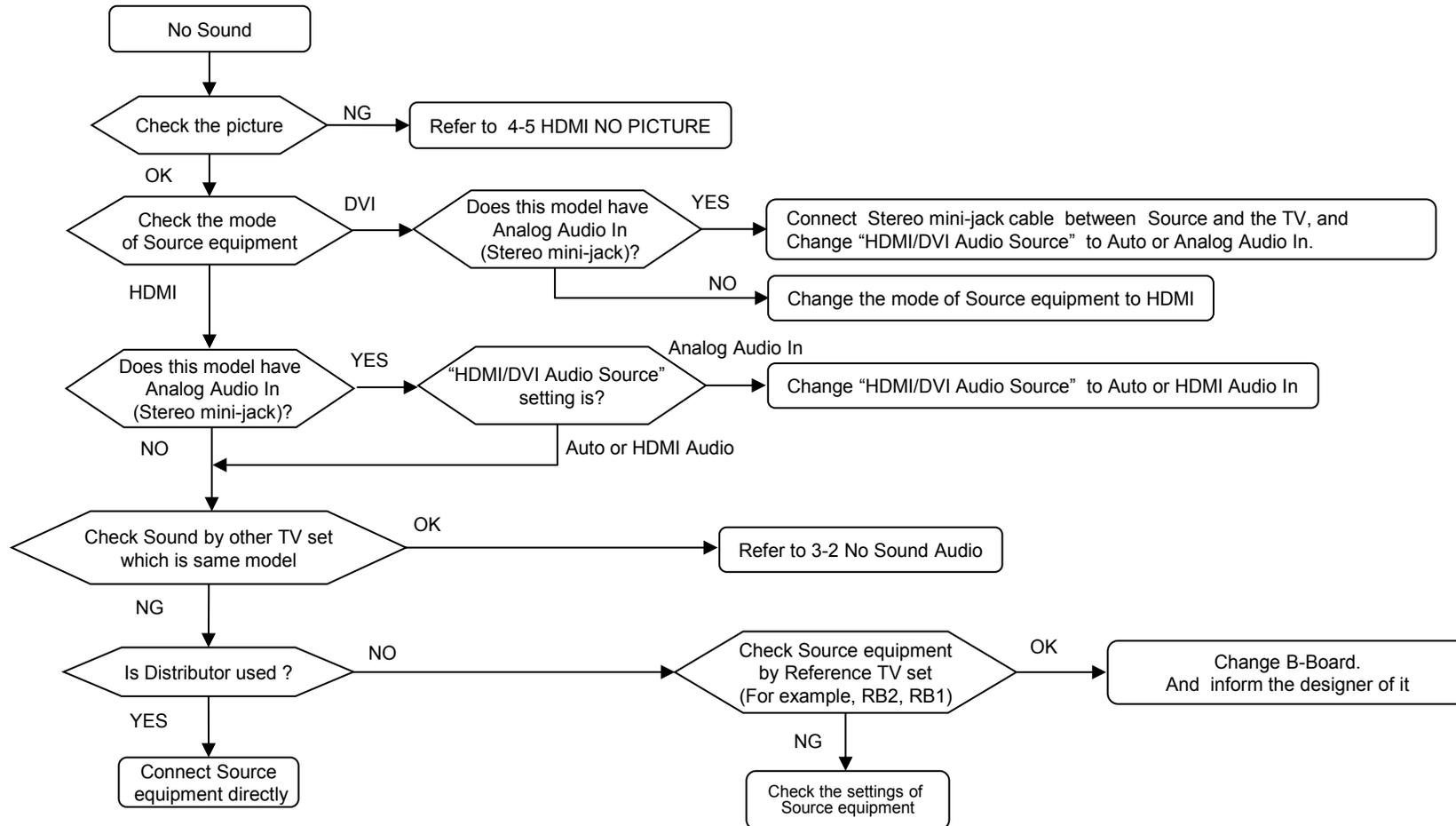
3-6. NO SOUND (TUNER)

This troubleshooting is only for Analog



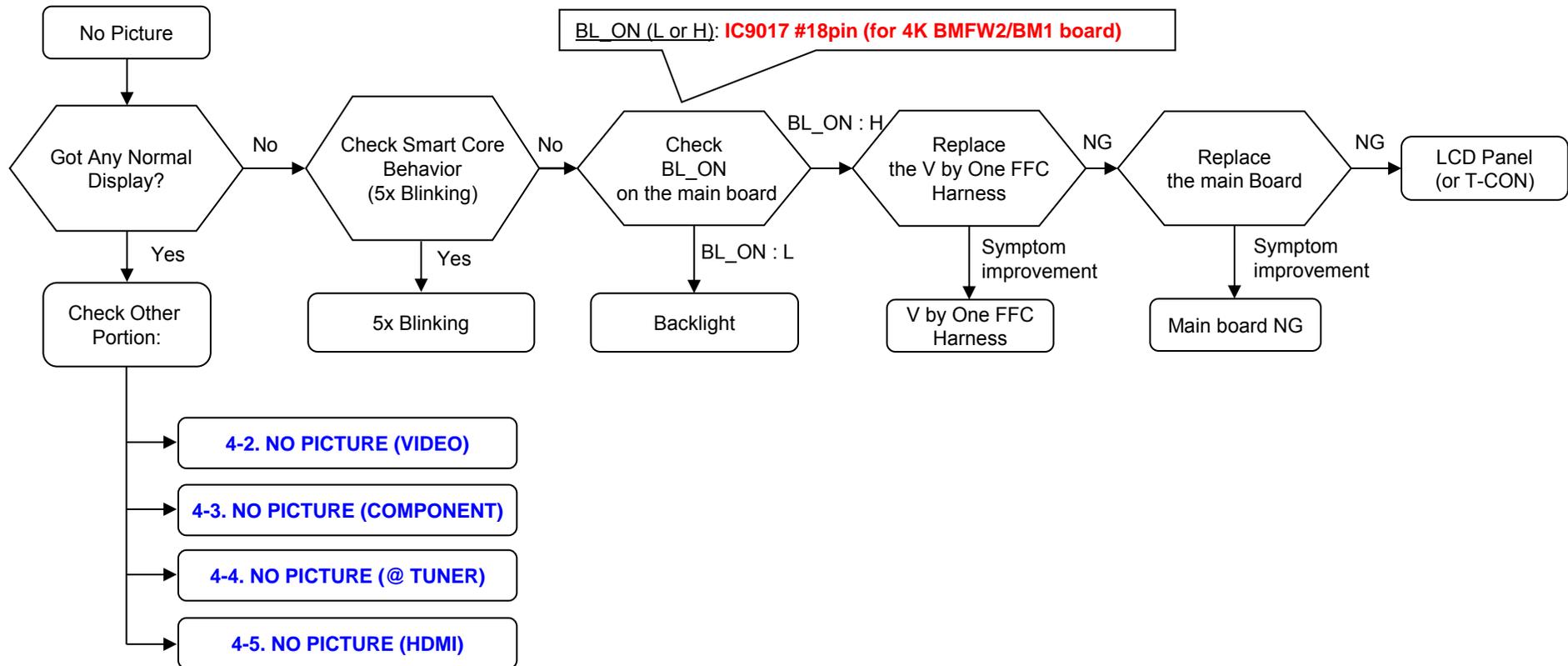
FLOW

3-7. NO SOUND (HDMI1/2/3/4)



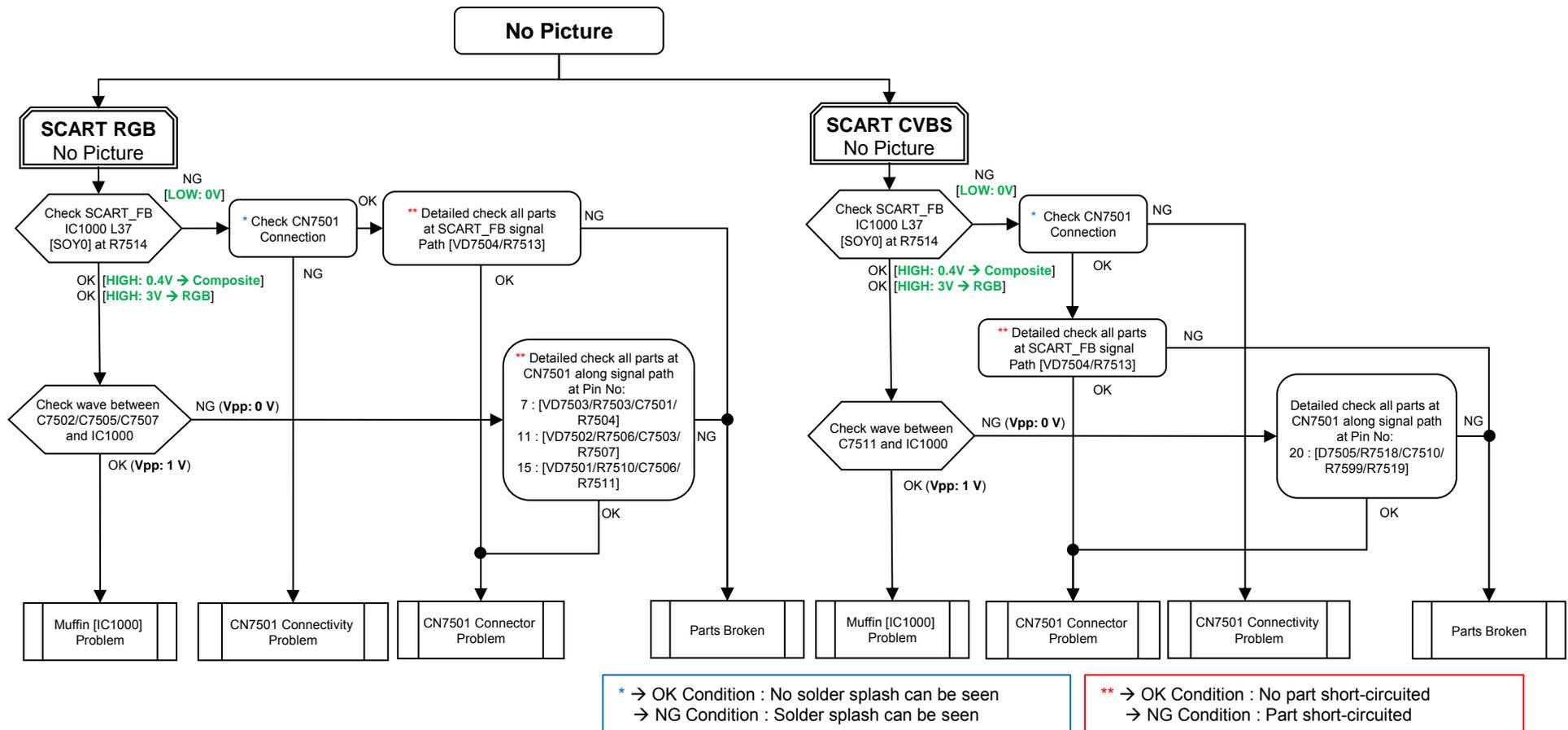
FLOW

4-1. NO PICTURE



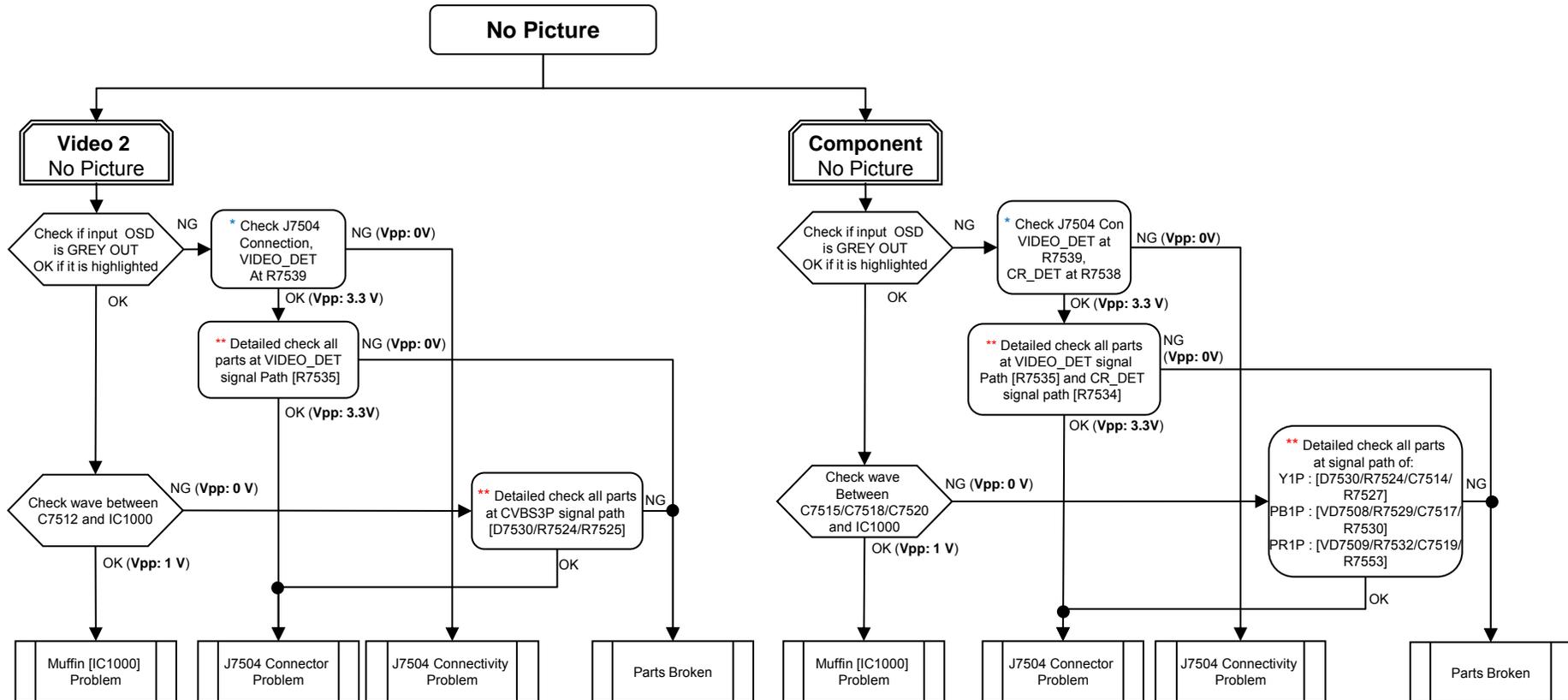
FLOW

4-2. NO PICTURE (VIDEO)



FLOW

4-3. NO PICTURE (COMPONENT)

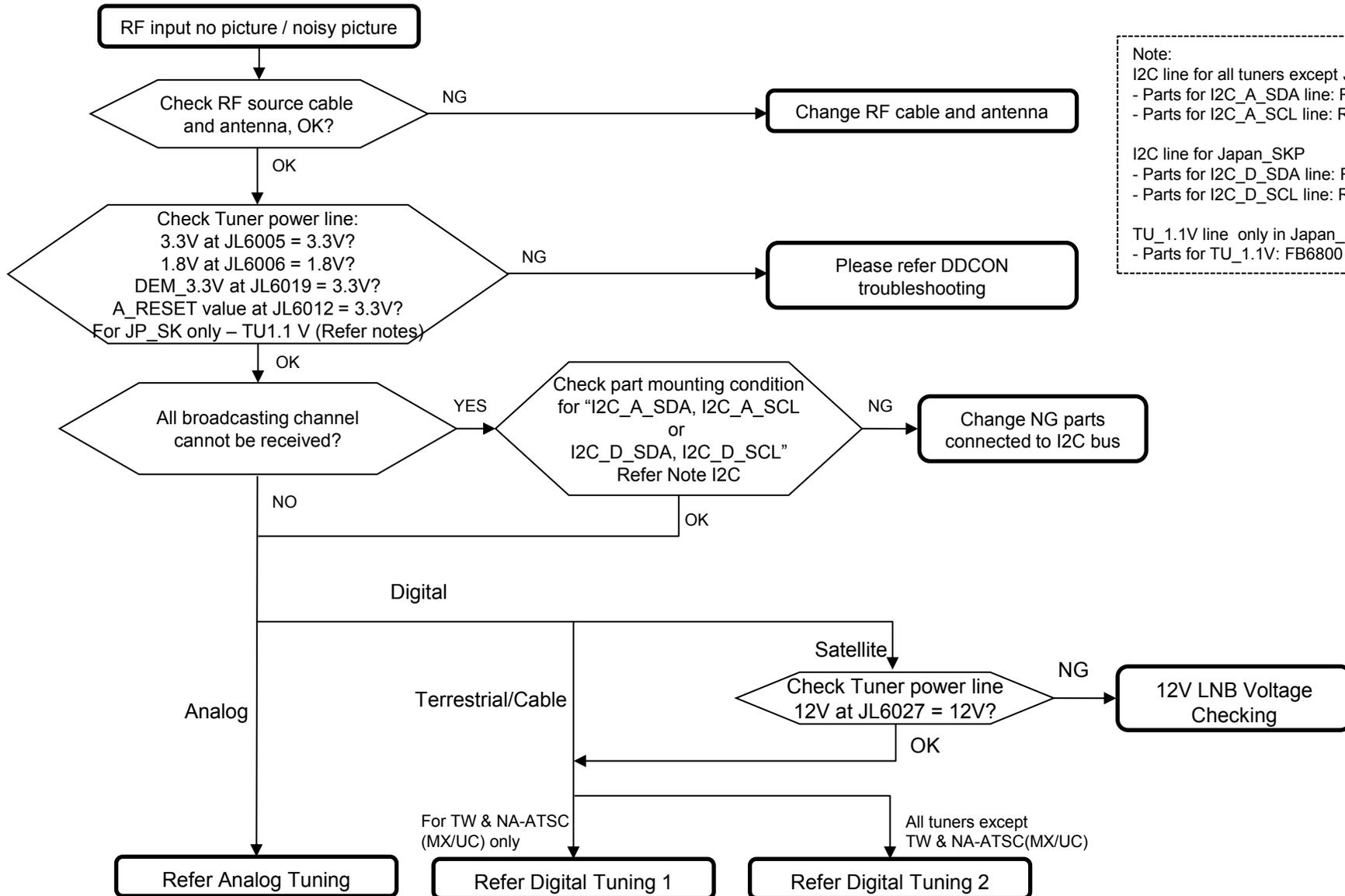


* → OK Condition : No solder splash can be seen
 → NG Condition : Solder splash can be seen

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

FLOW

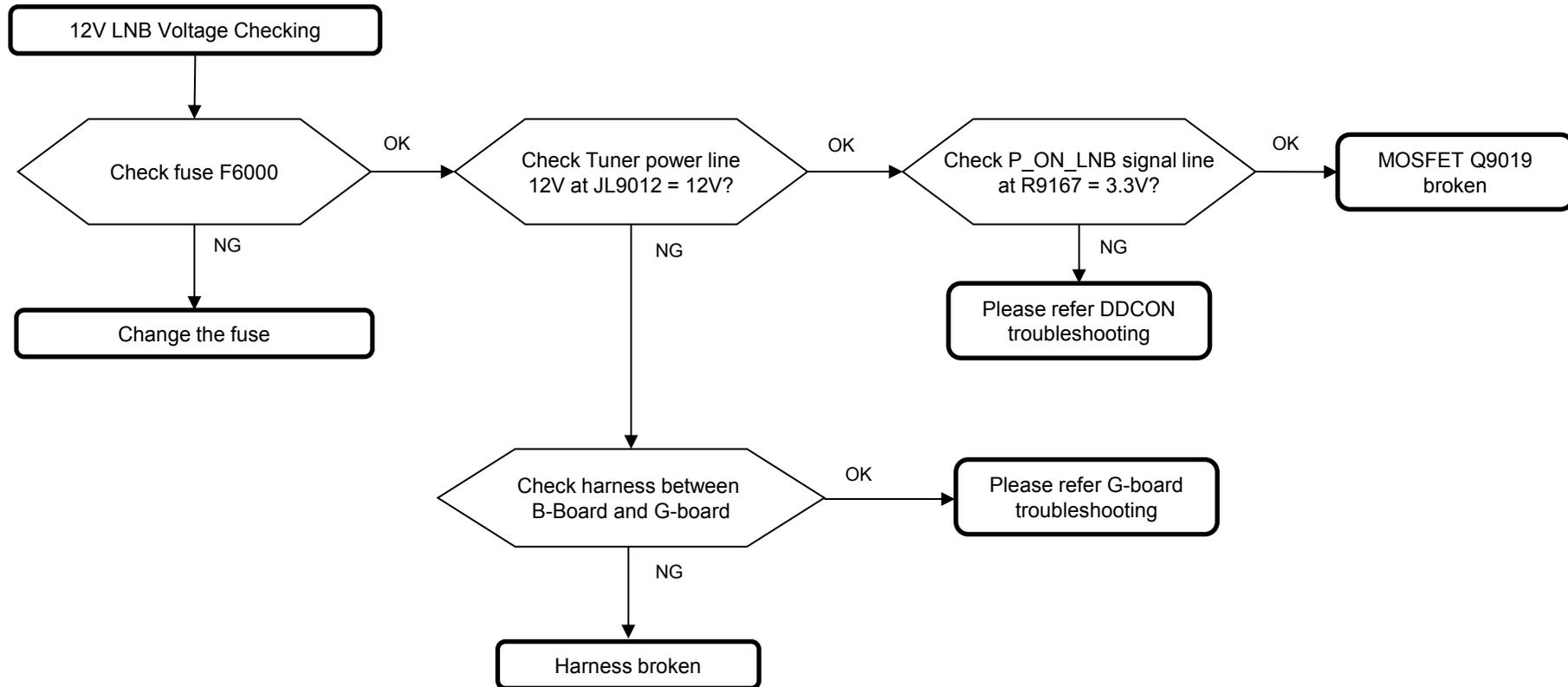
4-4. NO PICTURE (@ TUNER)



FLOW

4-4. NO PICTURE (@ TUNER)

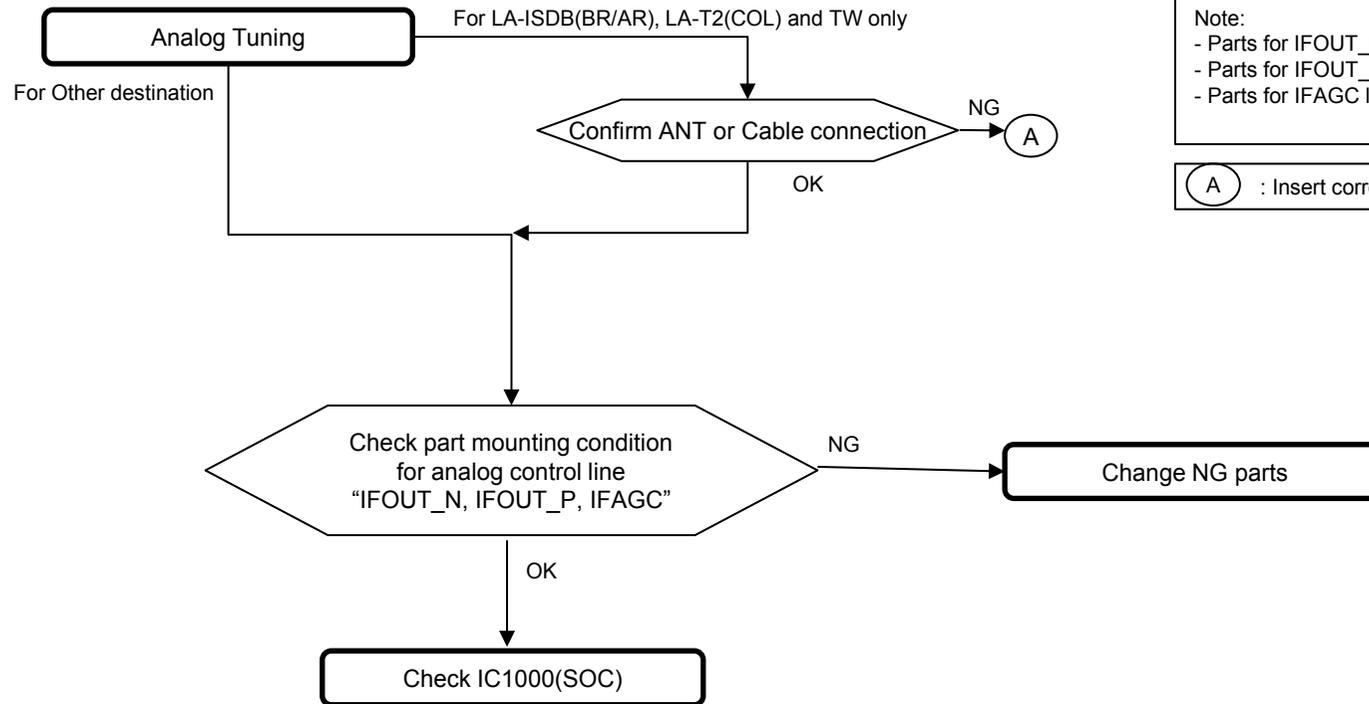
(1) FOR 12V LNB Voltage Checking



FLOW

4-4. NO PICTURE (@ TUNER)

(2) FOR ANALOG TUNING



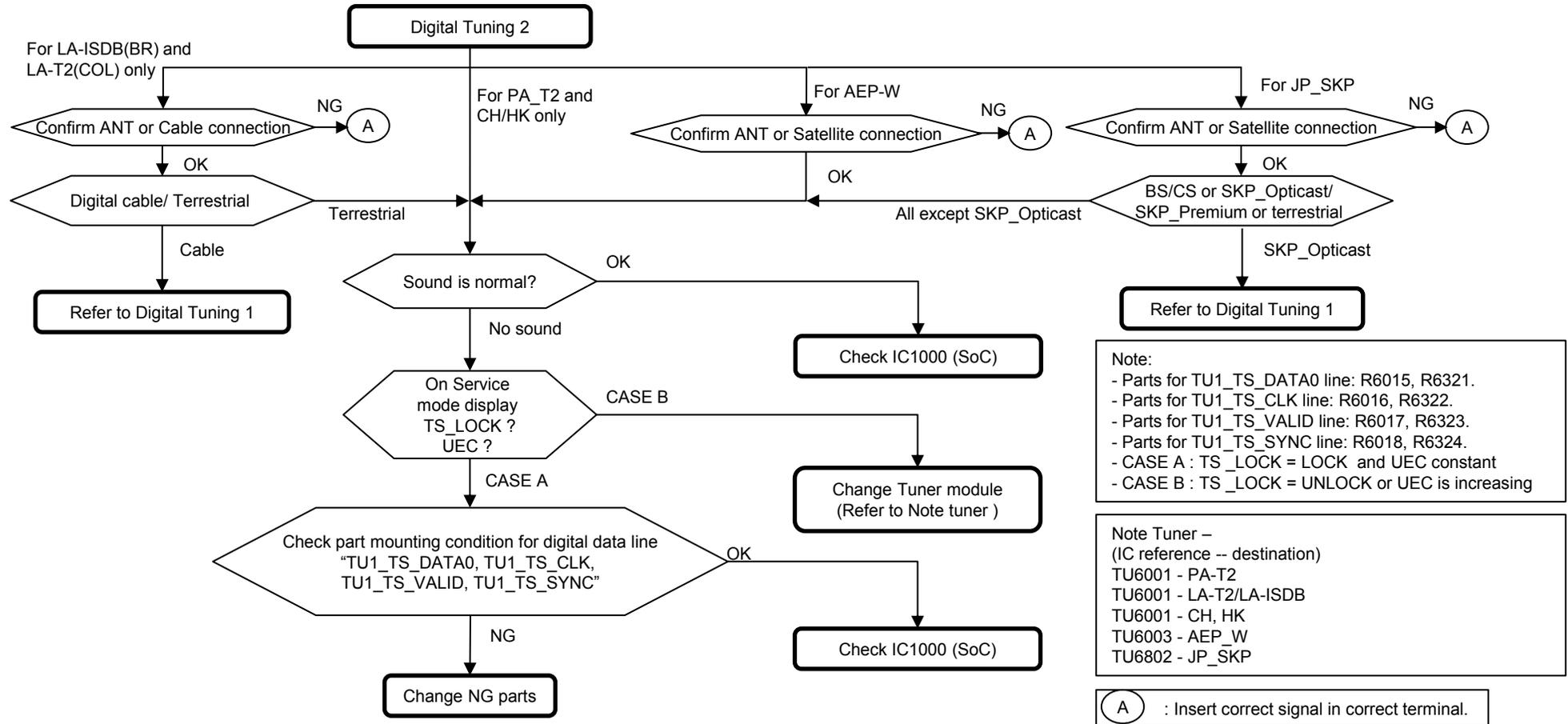
Note:
 - Parts for IFOUT_N line: R6007, FB6002, C6008, R6327, C6301, R6301.
 - Parts for IFOUT_P line: R6008, FB6003, C6009, R6326, C6300, R6300.
 - Parts for IFAGC line: R6072, R6009, R6010, R6069, C6302, R6303.

(A) : Insert correct signal in correct terminal.

FLOW

4-4. NO PICTURE (@ TUNER)

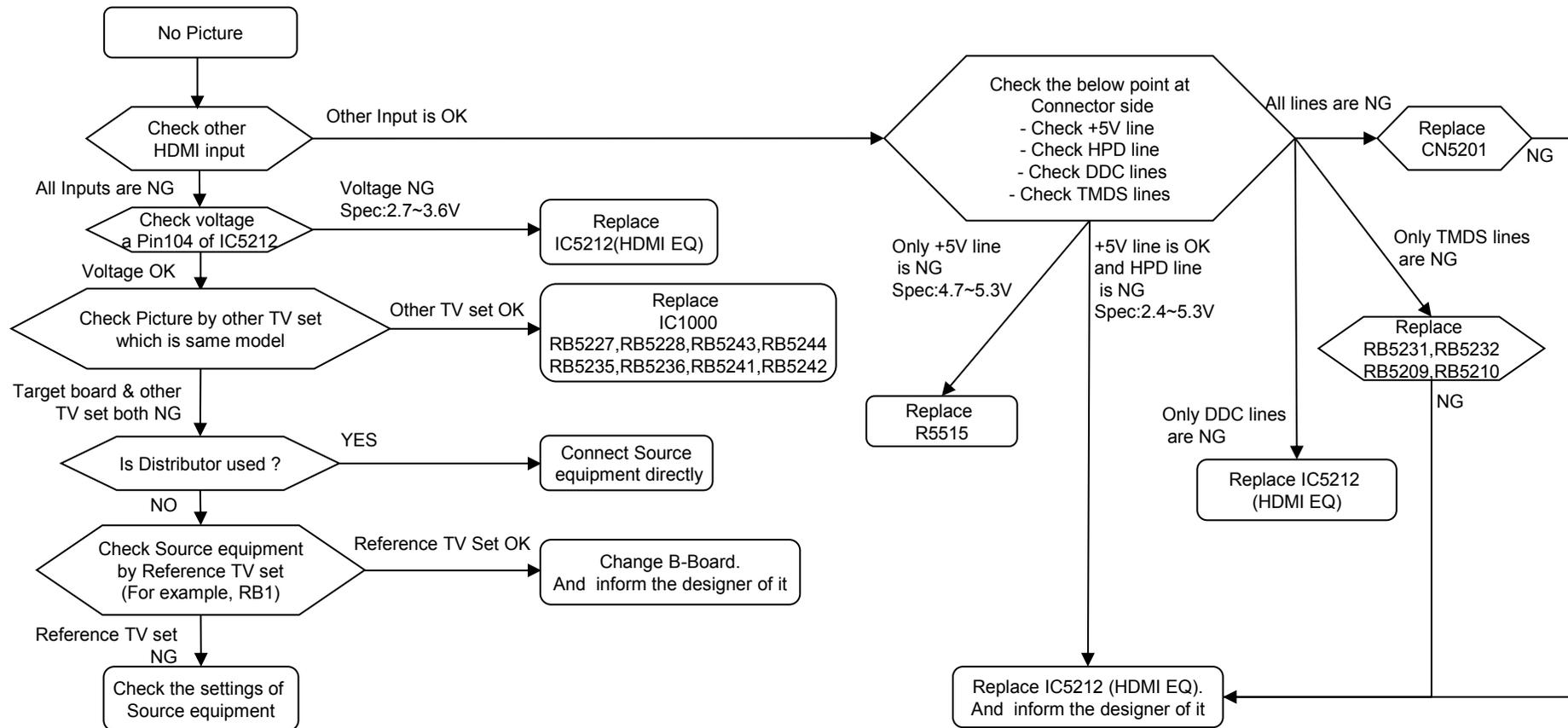
(3) FOR DIGITAL TUNING



FLOW

4-5. NO PICTURE (HDMI)

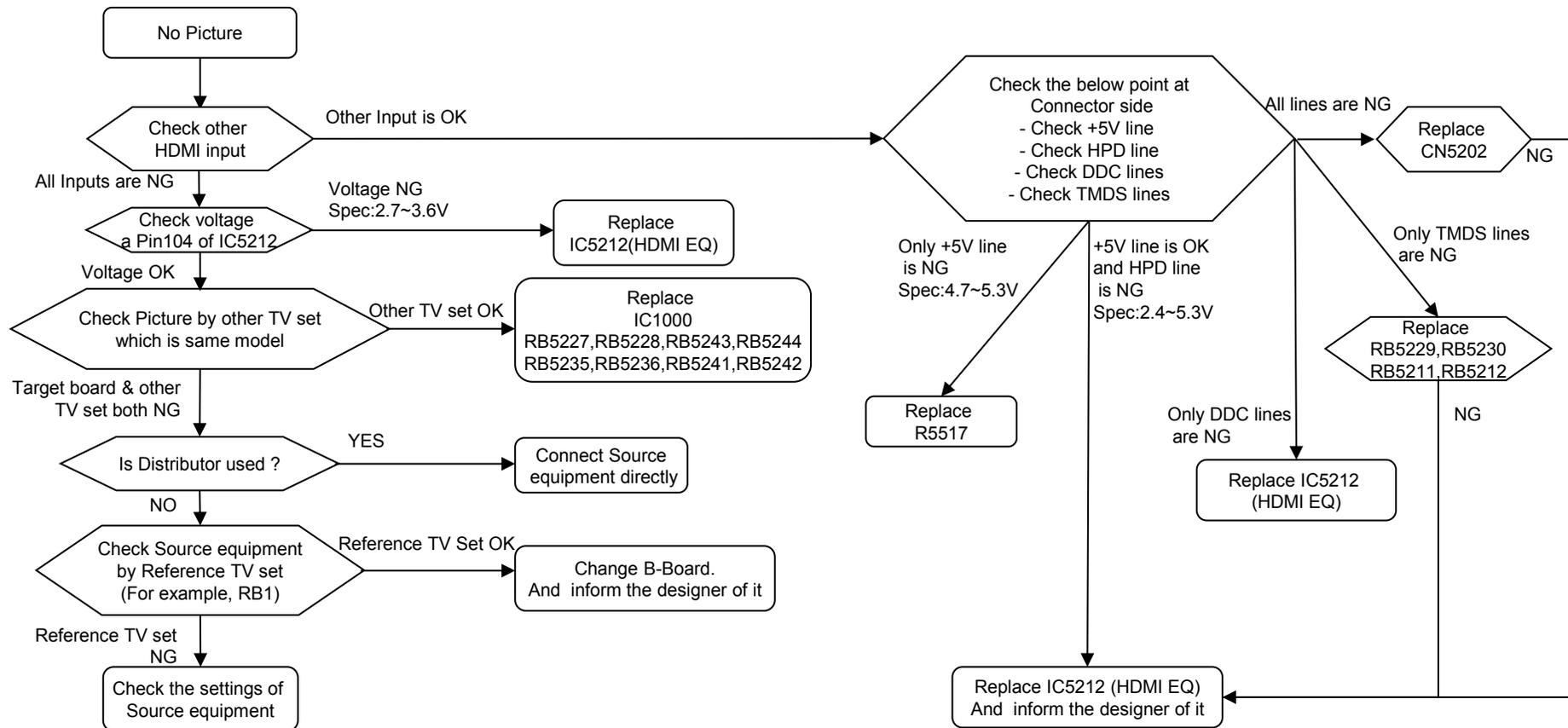
(1) HDMI1



FLOW

4-5. NO PICTURE (HDMI)

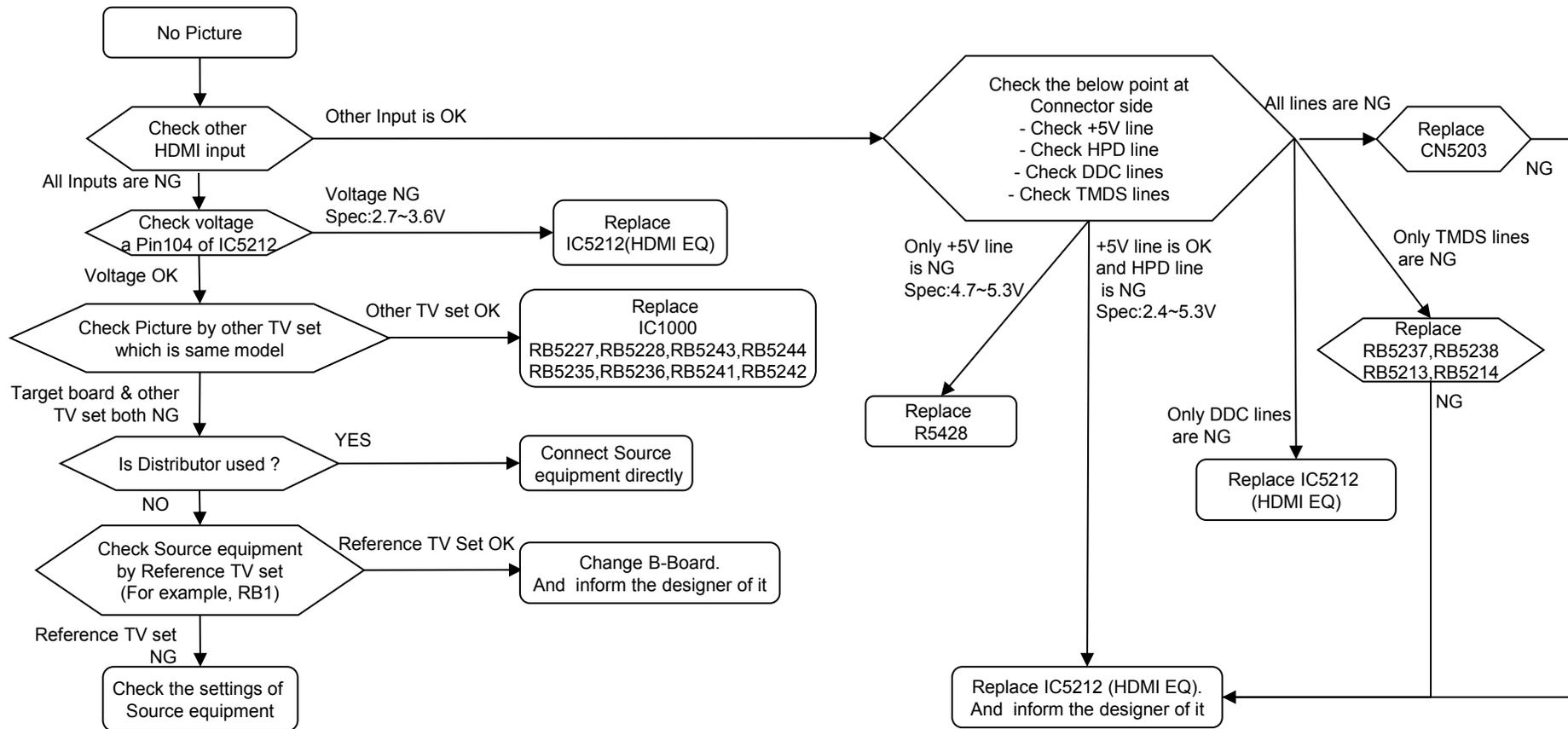
(2) HDMI2



FLOW

4-5. NO PICTURE (HDMI)

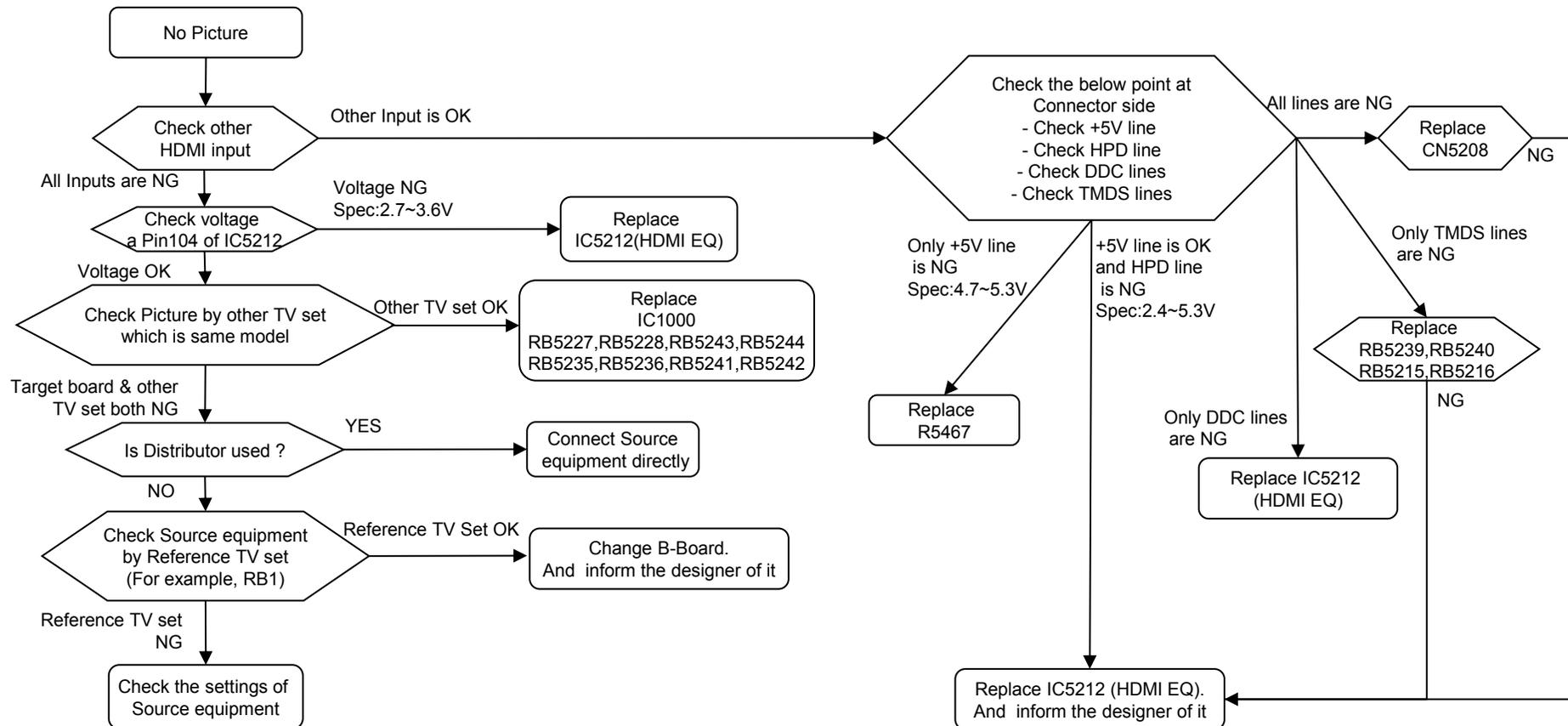
(3) HDMI3



FLOW

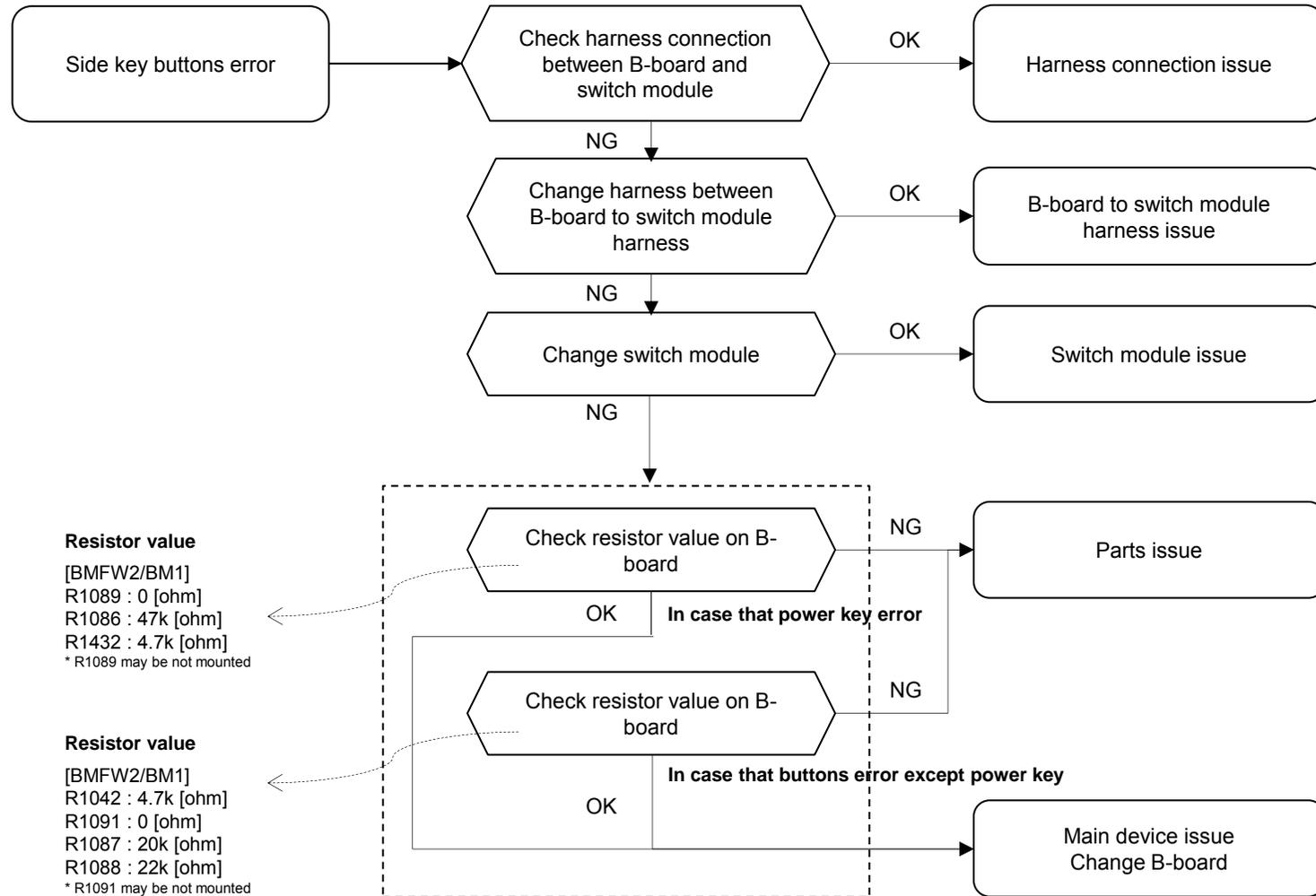
4-5. NO PICTURE (HDMI)

(4) HDMI 4



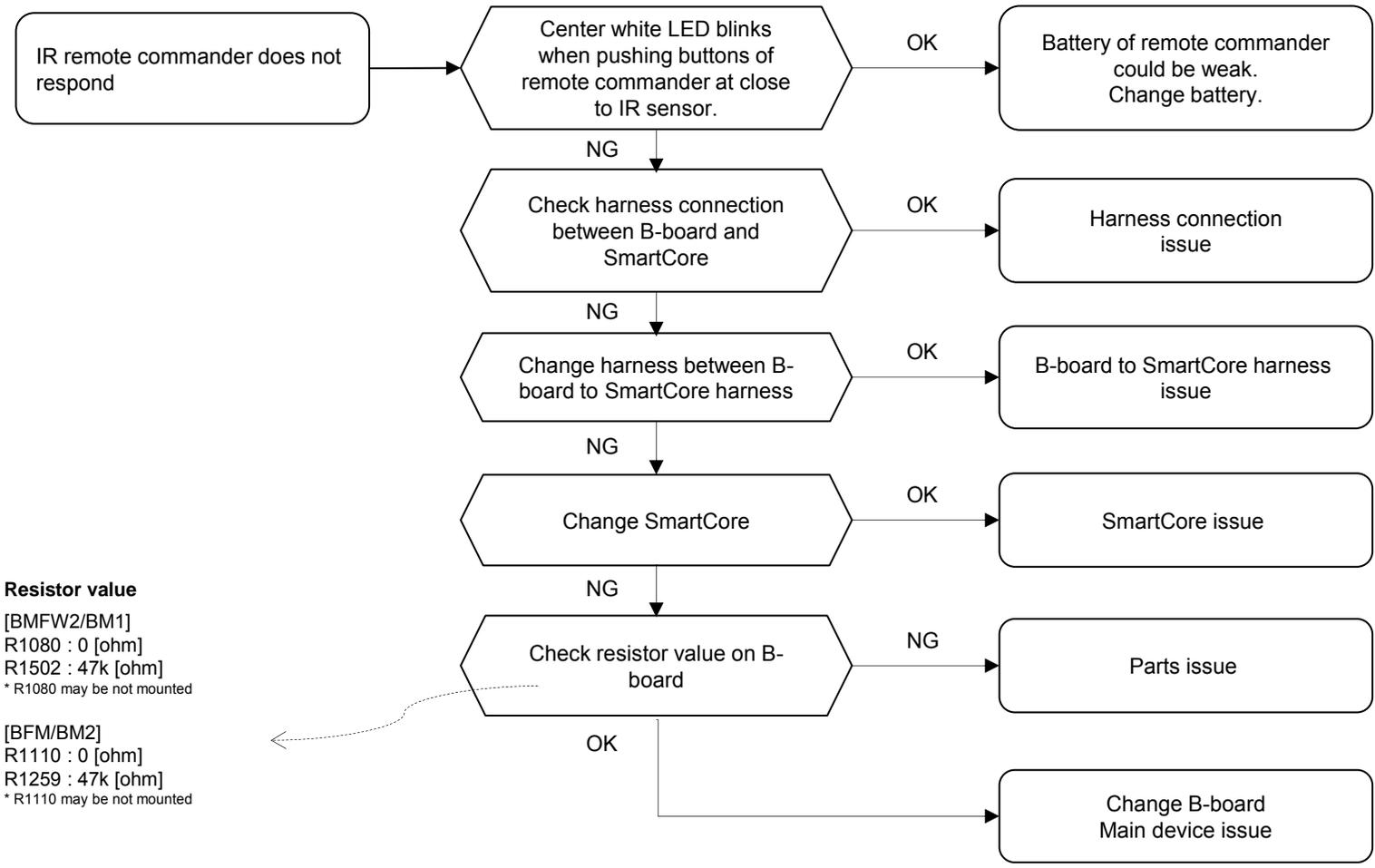
FLOW

5. KEY SWITCH BUTTONS ERROR



FLOW

6. IR REMOTE COMMANDER ERROR

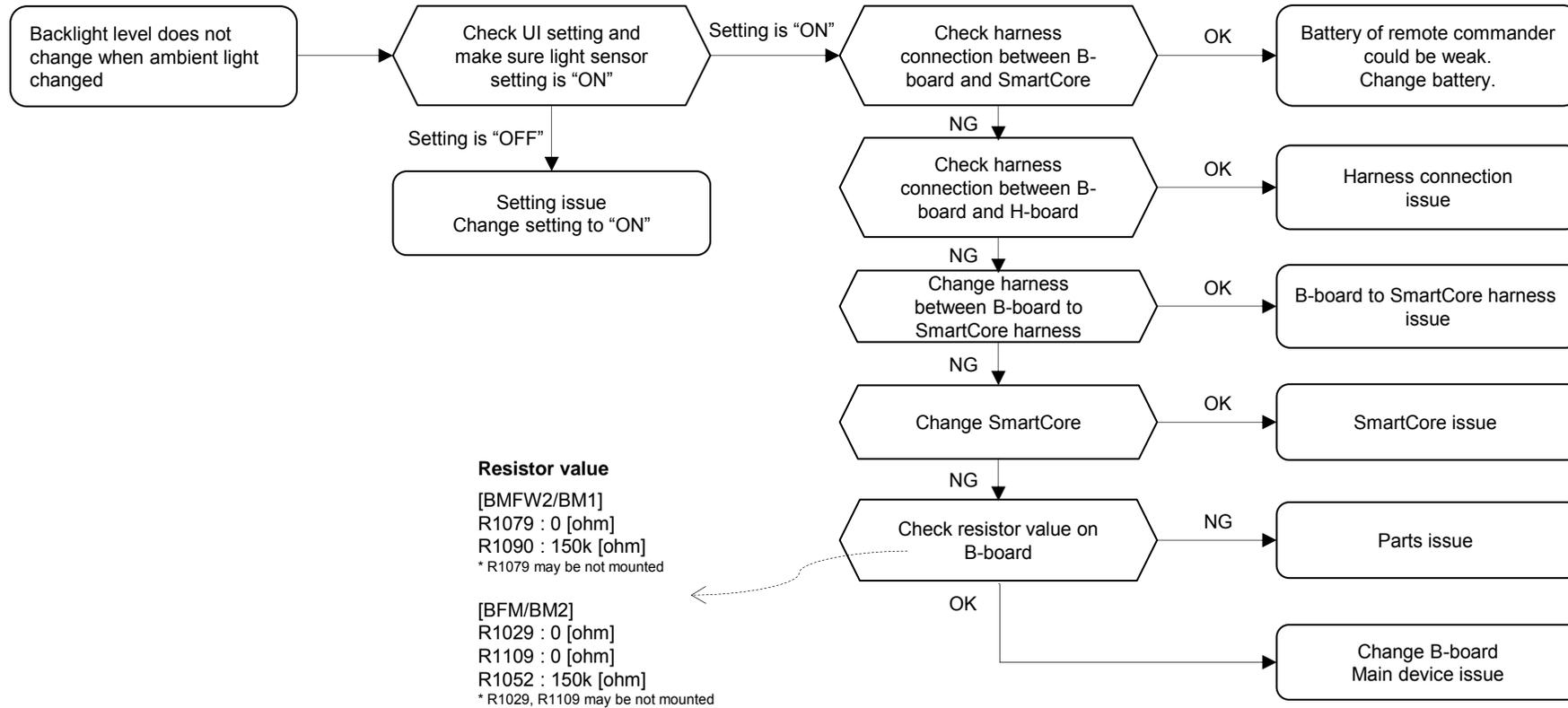


Resistor value
 [BMFW2/BM1]
 R1080 : 0 [ohm]
 R1502 : 47k [ohm]
 * R1080 may be not mounted

[BFM/BM2]
 R1110 : 0 [ohm]
 R1259 : 47k [ohm]
 * R1110 may be not mounted

FLOW

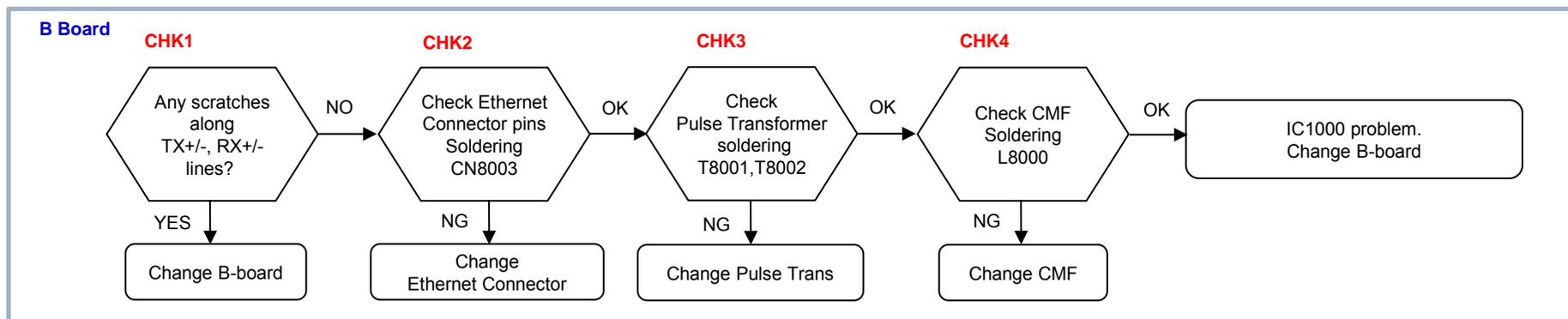
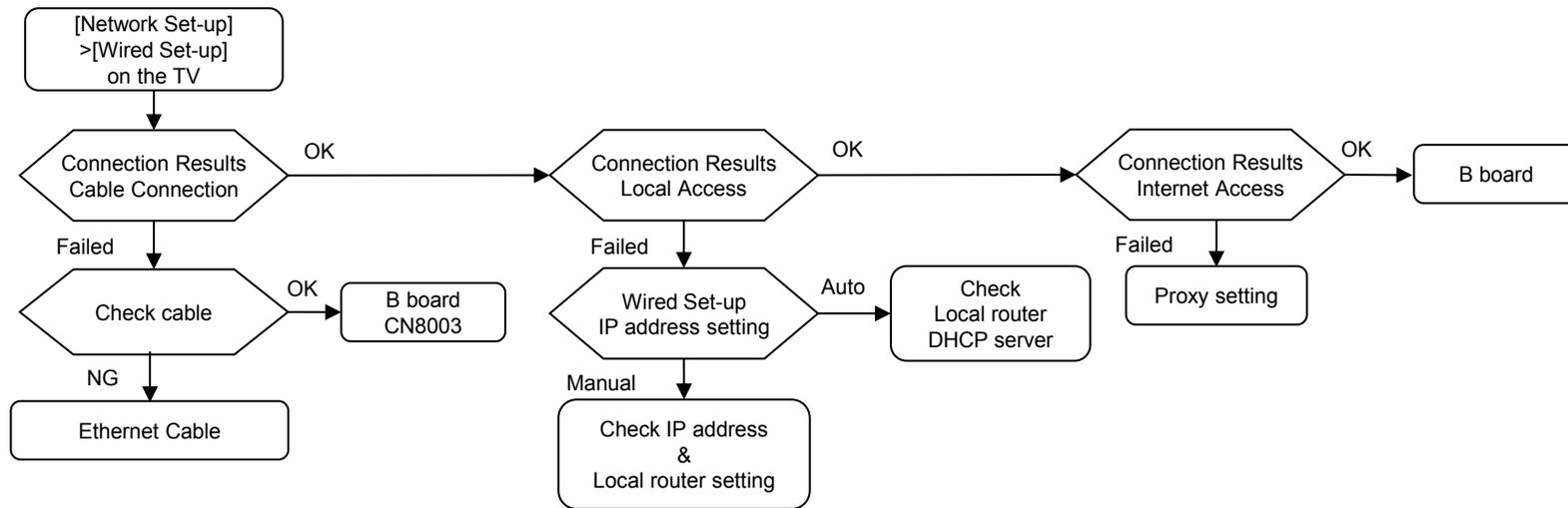
7. LIGHT SENSOR ERROR



FLOW

8. NETWORK MALFUNCTION

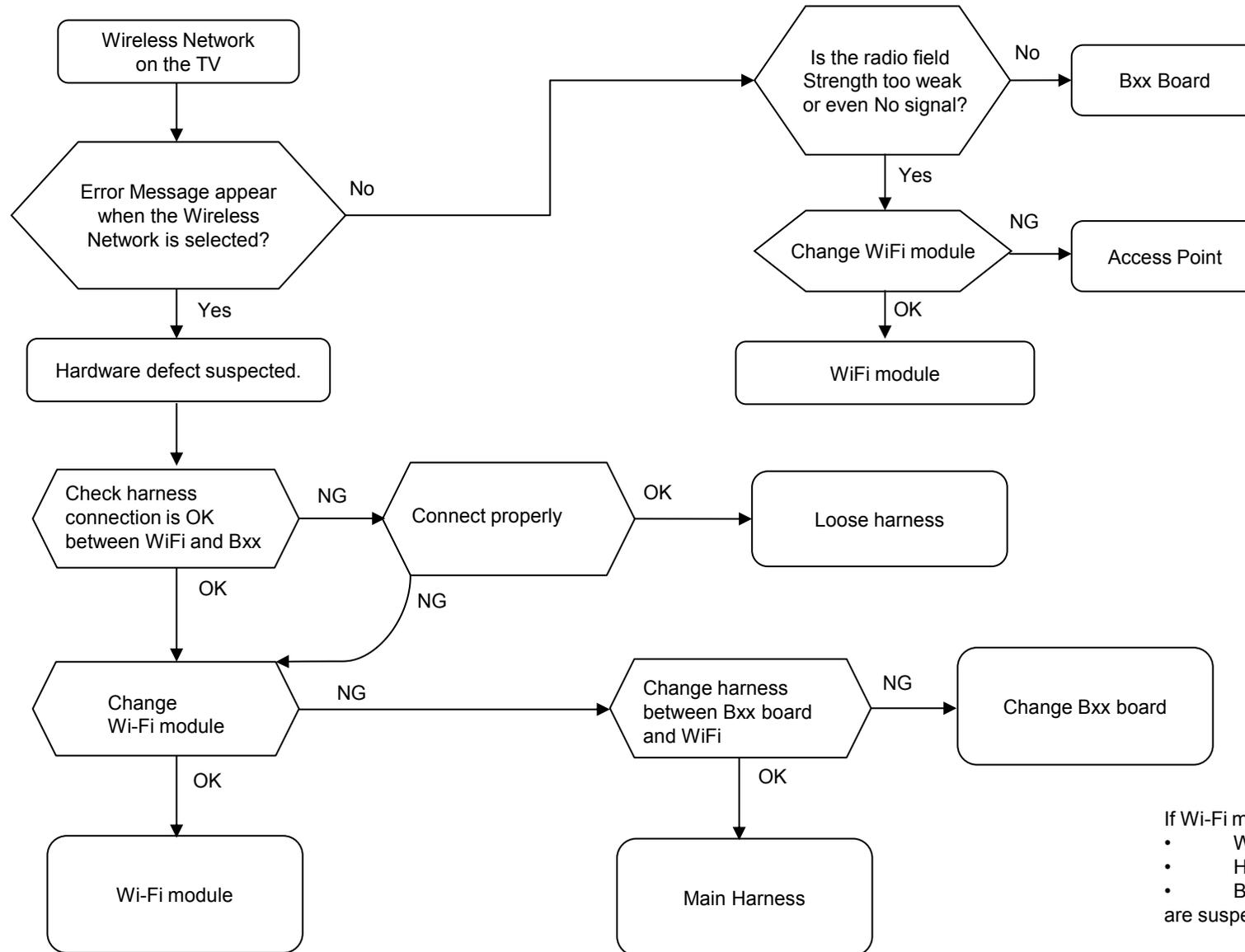
(1) Ethernet (Wired)



FLOW

8. NETWORK MALFUNCTION

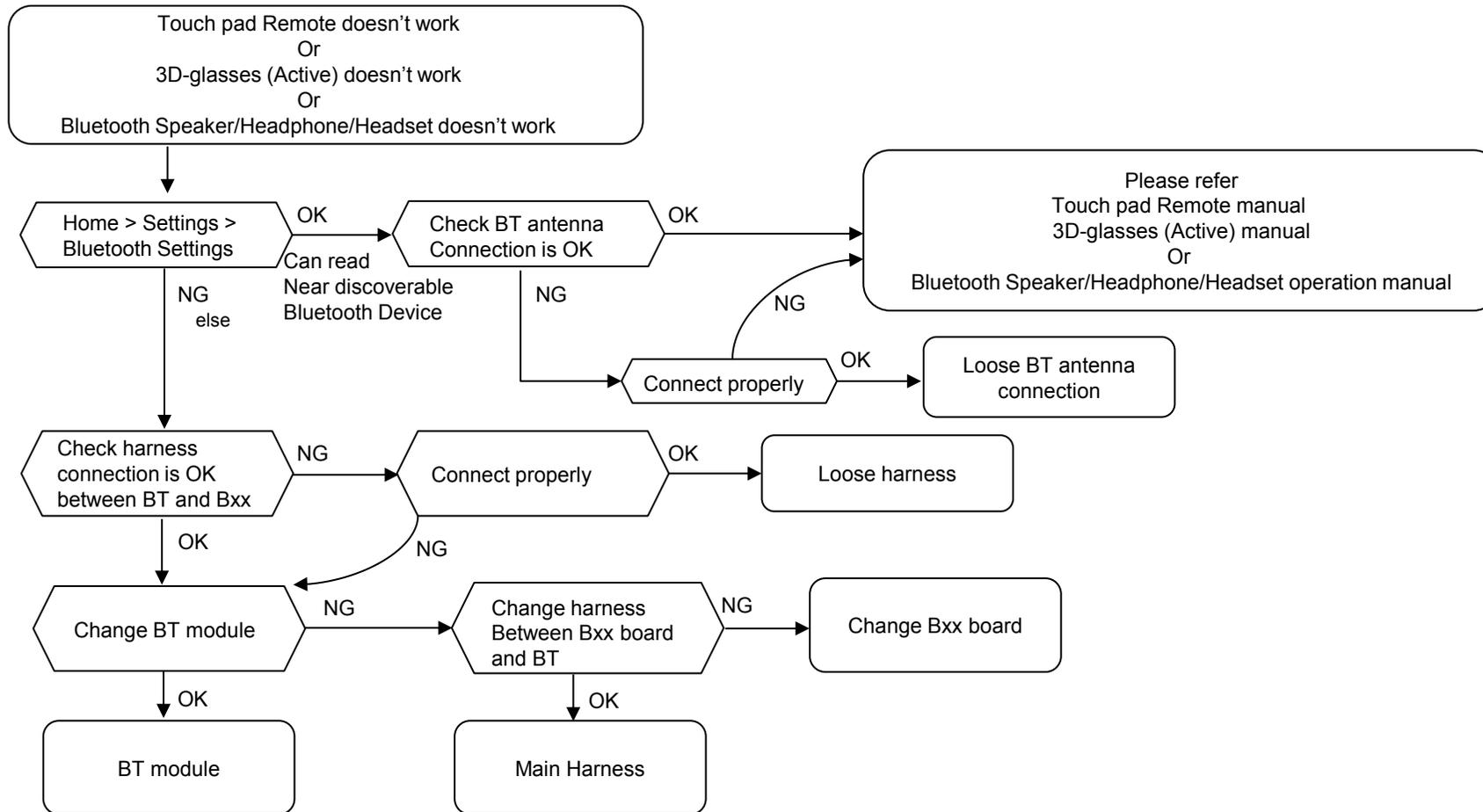
(2) Internal Wireless Network malfunction



If Wi-Fi malfunction happens,
 • Wi-Fi module
 • Harness between WiFi and Bxx
 • Bxx board
 are suspected.

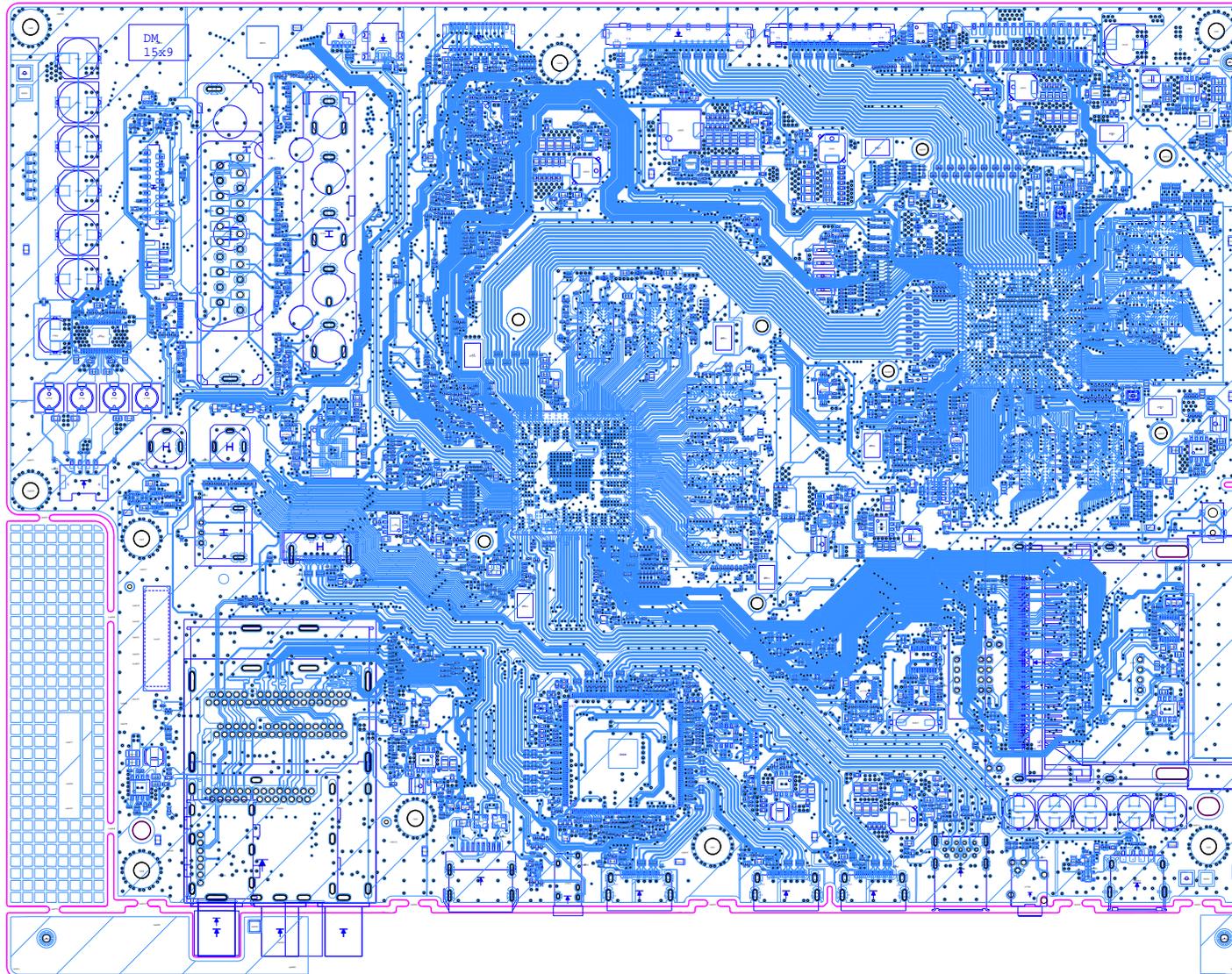
FLOW

9. BLUETOOTH MALFUNCTION



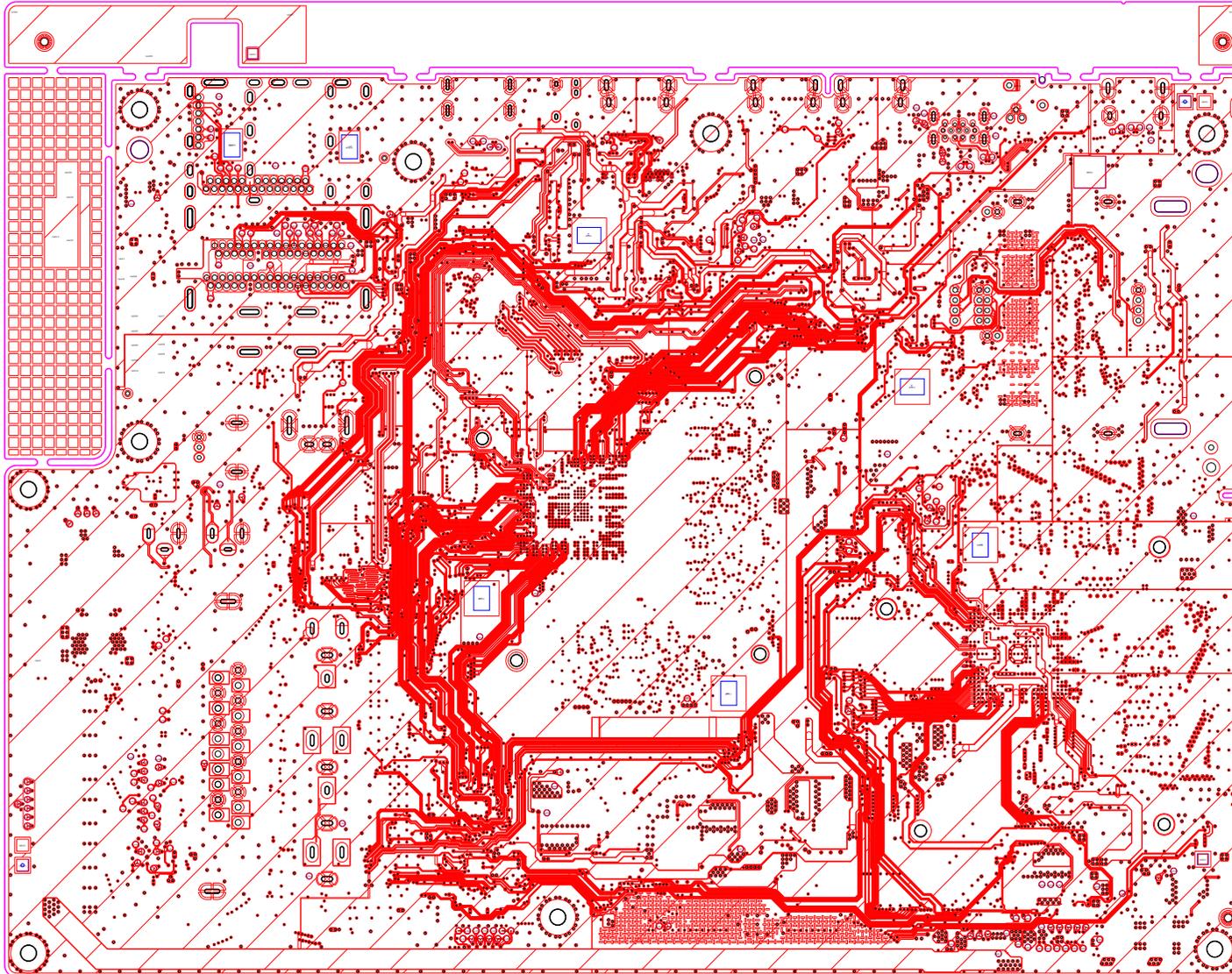
PCB PARTS MAP

BMFW2 (A side view)



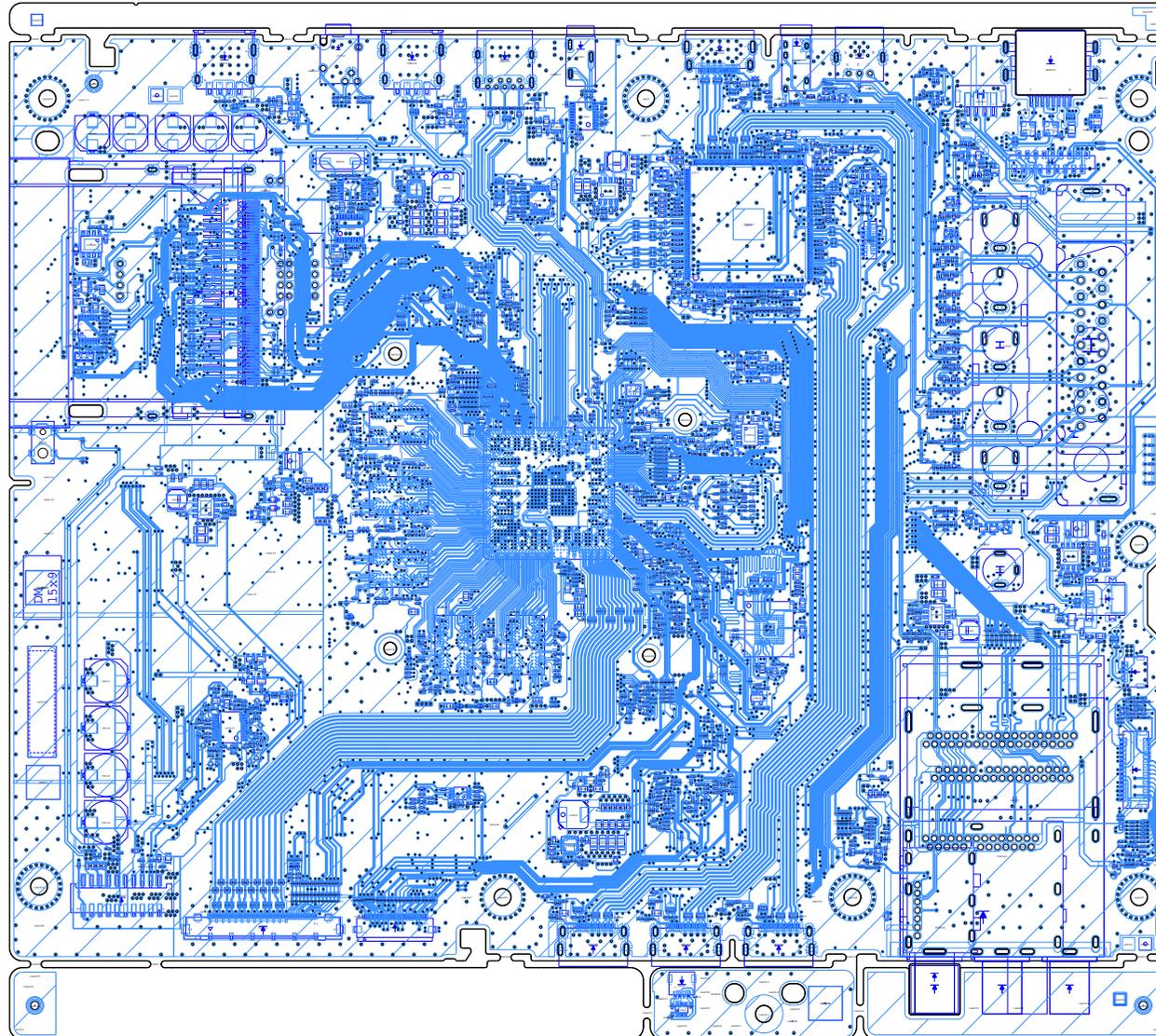
PCB PARTS MAP

BMFW2 (B side view)



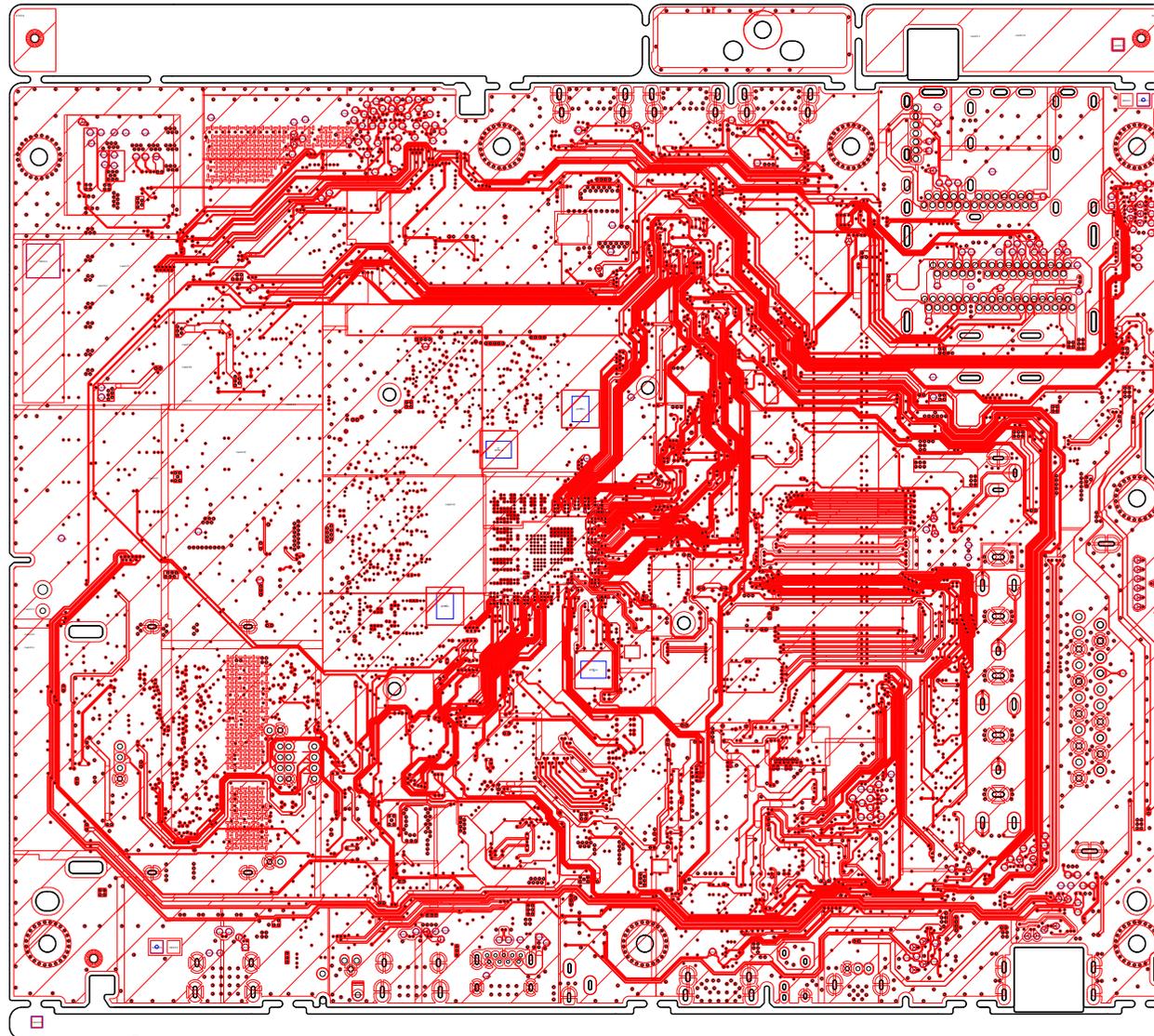
PCB PARTS MAP

BM1 (A side view)



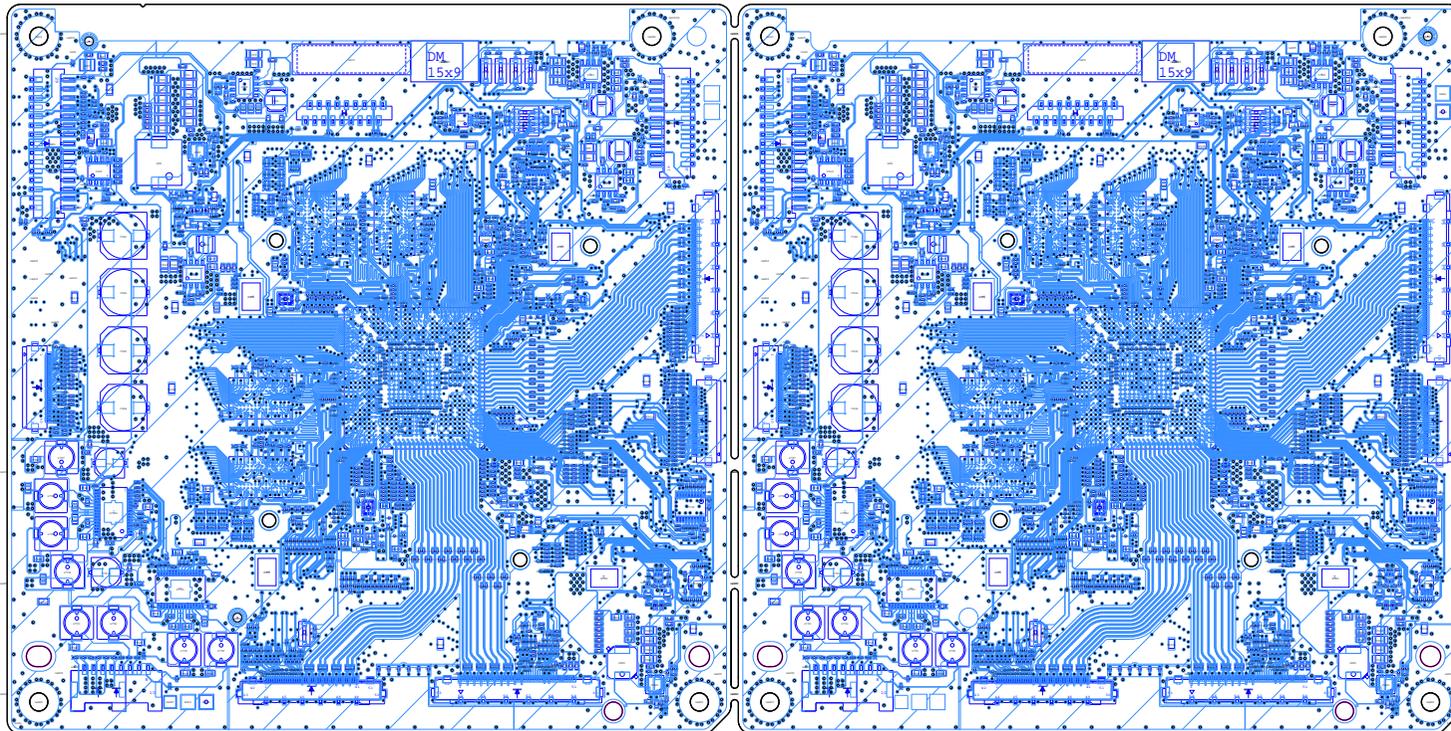
PCB PARTS MAP

BM1 (B side view)



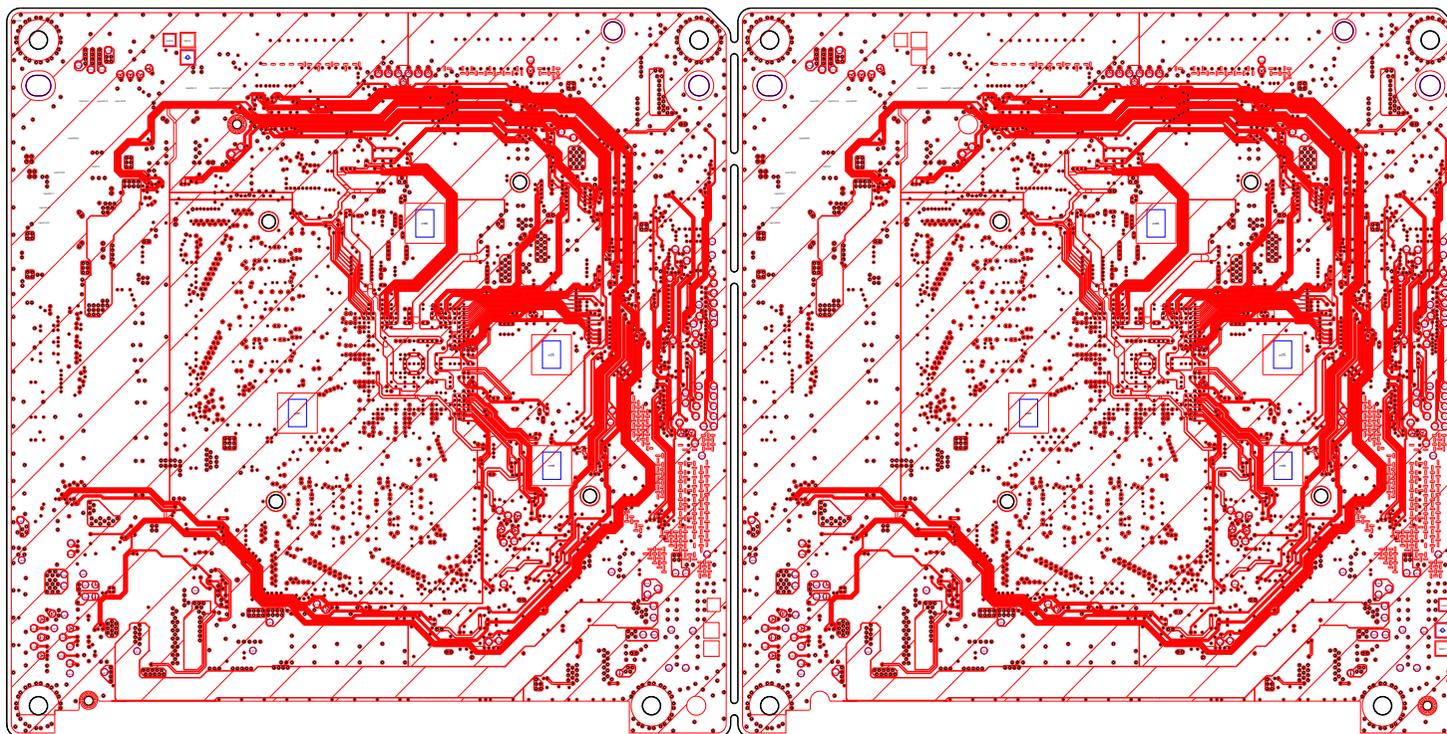
PCB PARTS MAP

DPS (A side view)



PCB PARTS MAP

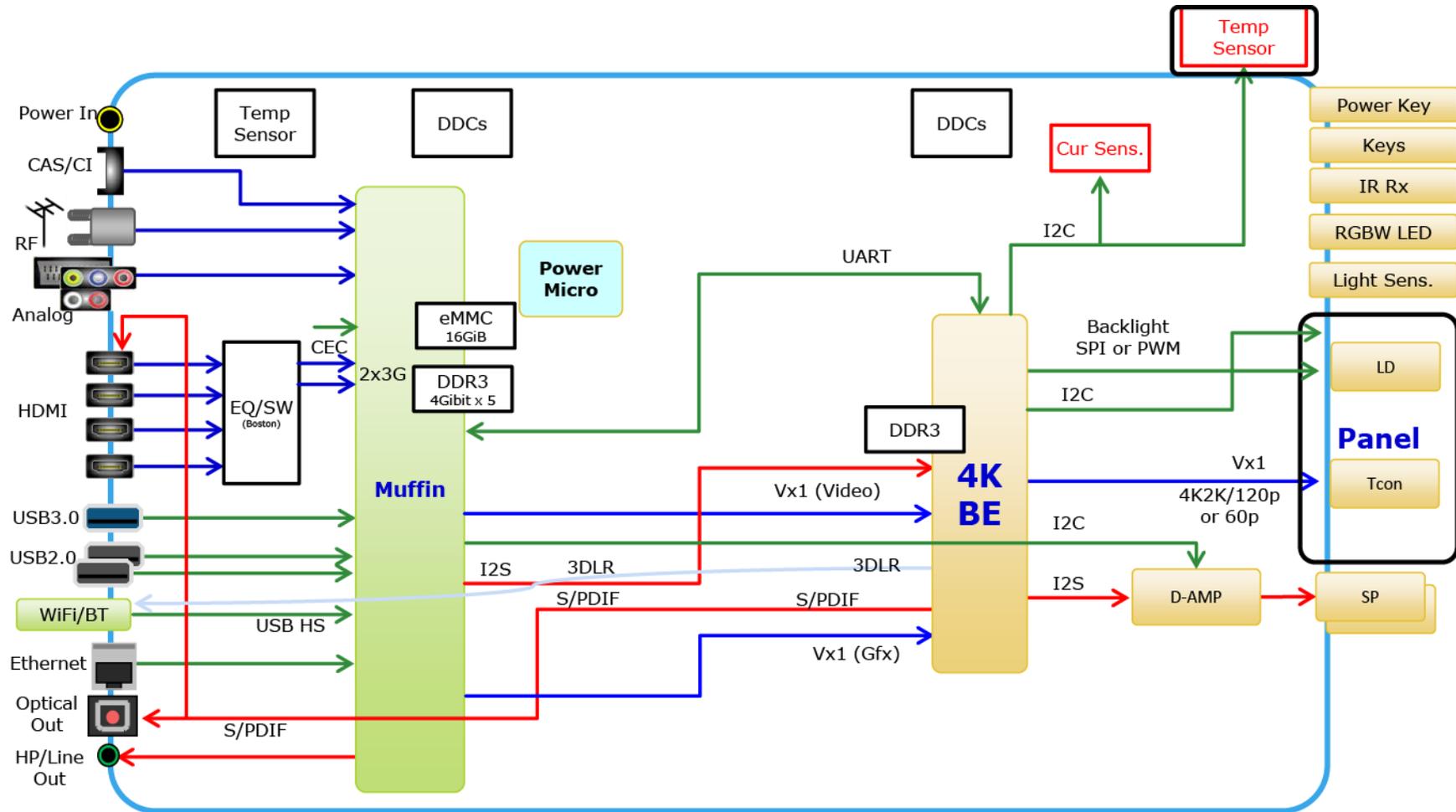
DPS (B side view)



DIAGRAMS

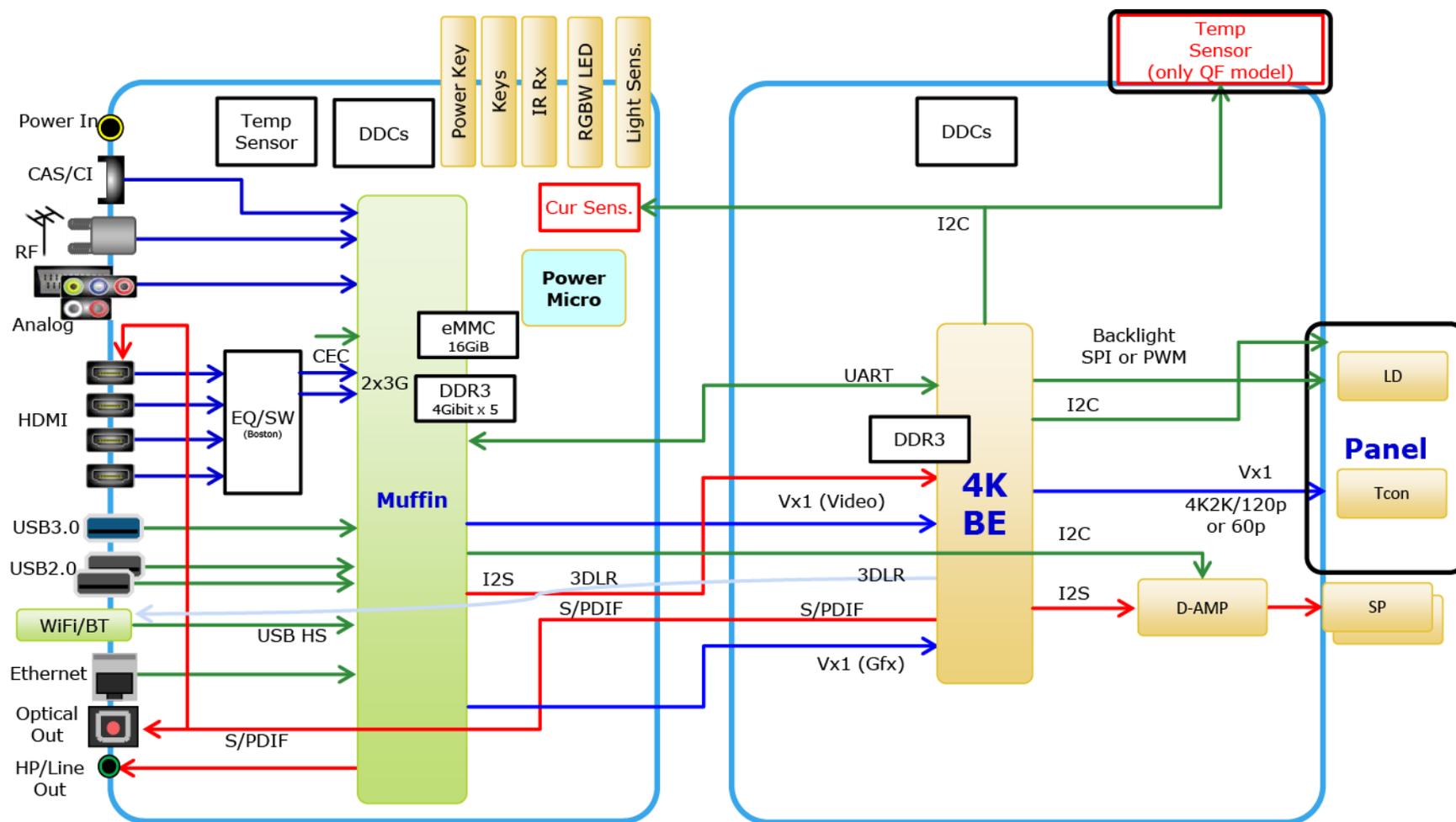
BLOCK DIAGRAM

Case: BMFW2 structure



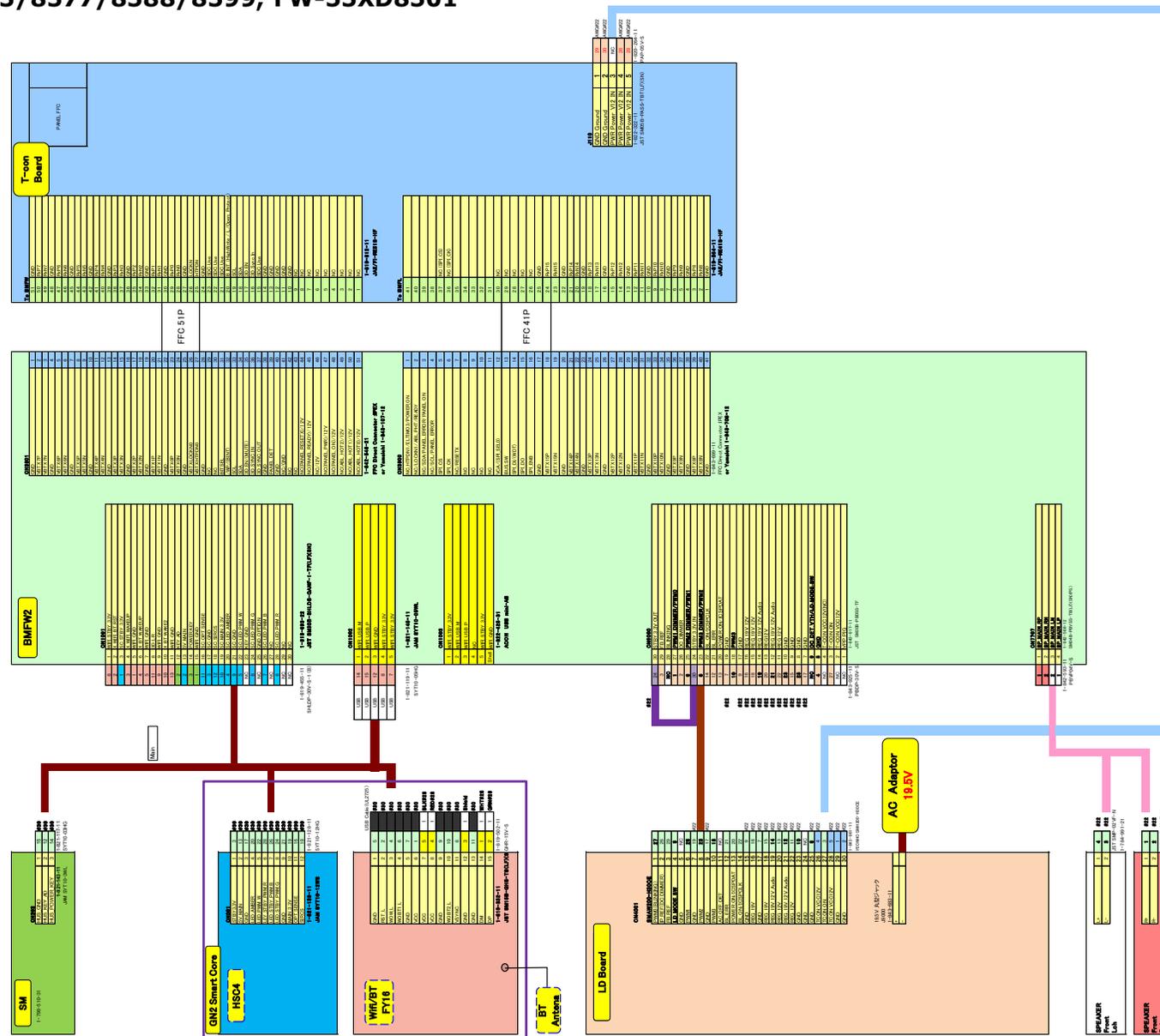
BLOCK DIAGRAM

Case: BM1 + DPS structure



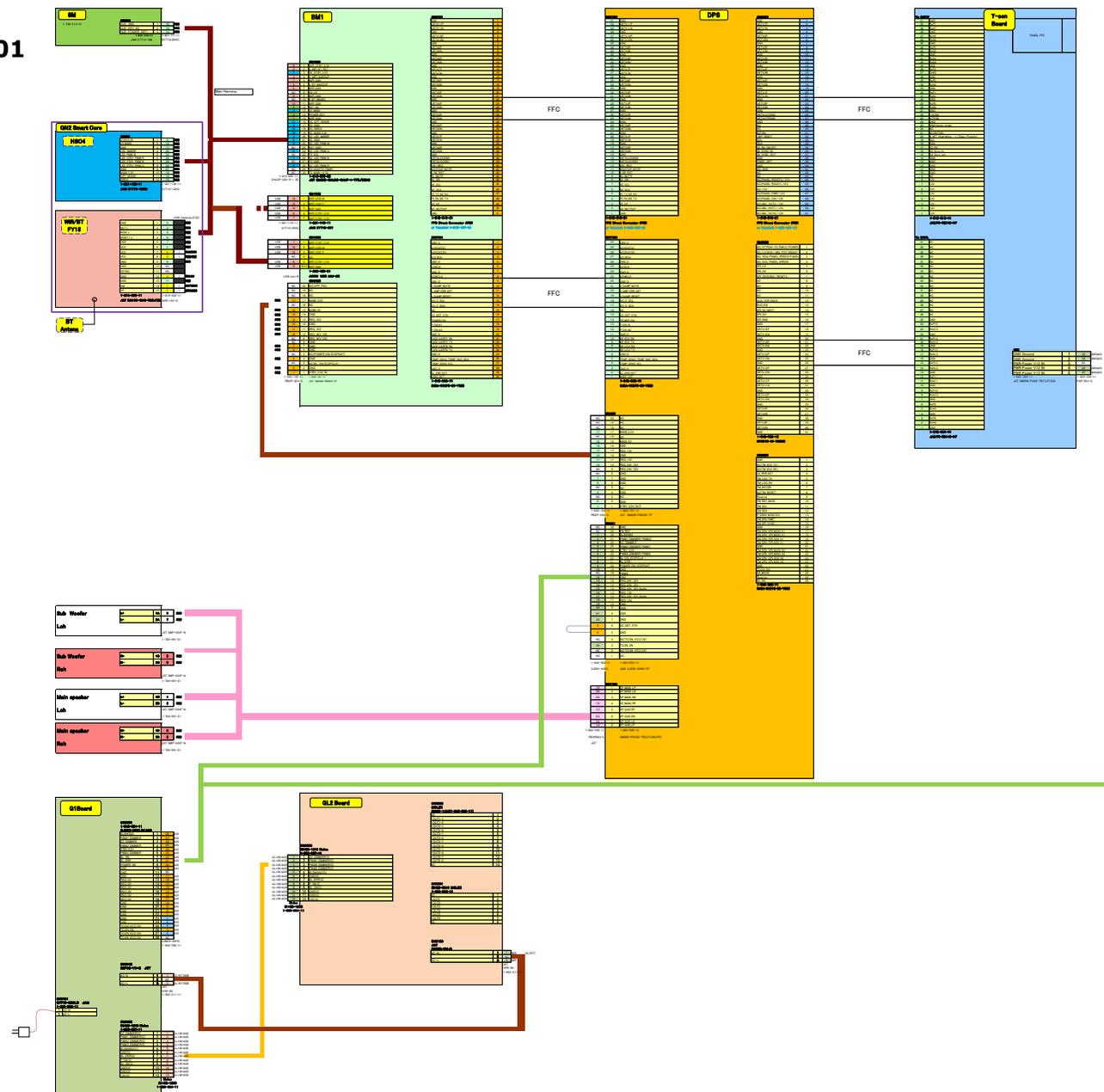
CONNECTOR DIAGRAM

1. KD-55XD8505/8577/8588/8599, FW-55XD8501



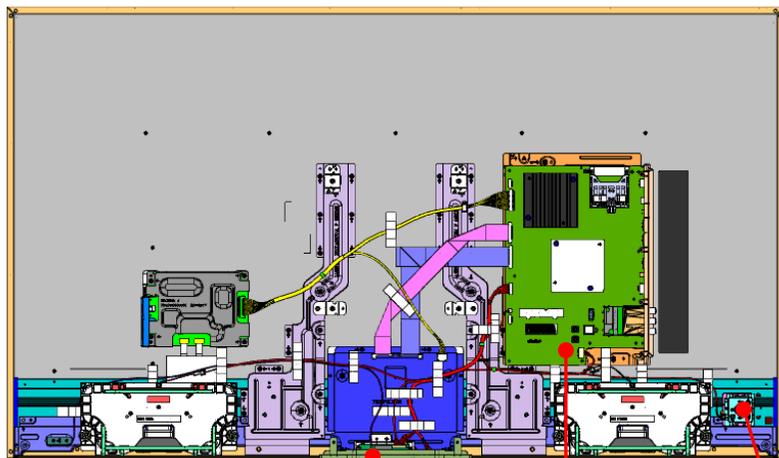
CONNECTOR DIAGRAM

3. KD-75XD8505, FW-75XD8501



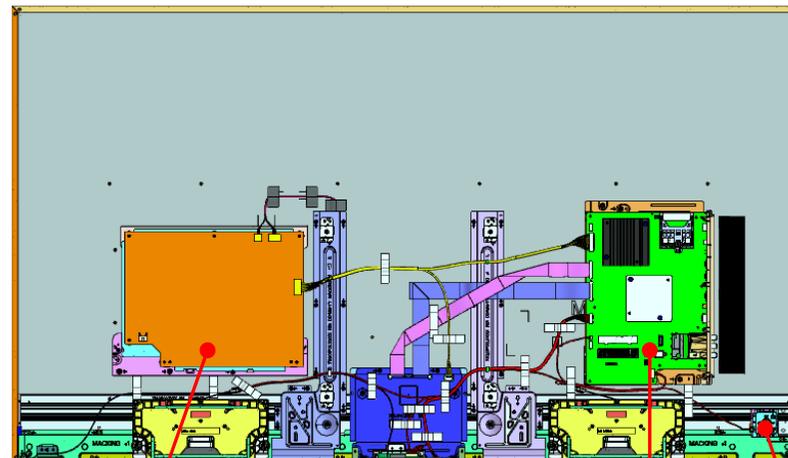
BOARDS LOCATION

KD-55XD8505/8577/8588/8599, FW-55XD8501



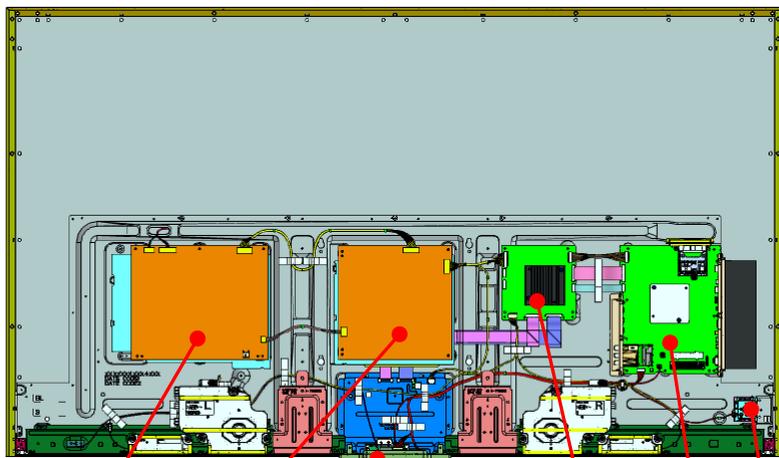
SMART CORE (S) BMFW2 SWITCH UNIT

KD-65XD8505/8577/8599, FW-65XD8501



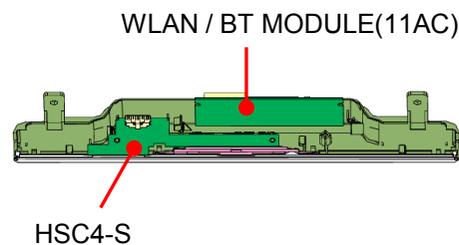
GL1 SMART CORE (S) BMFW2 SWITCH UNIT

KD-75XD8505, FW-75XD8501

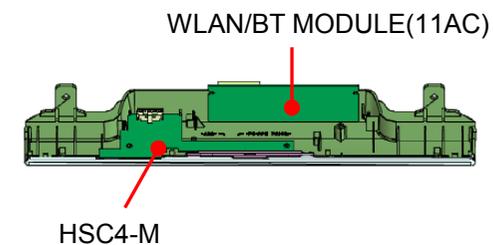


GL2 G1 SMART CORE (M) DPS BM1 SWITCH UNIT

SMART CORE (S)



SMART CORE (M)



WIRE DRESSING

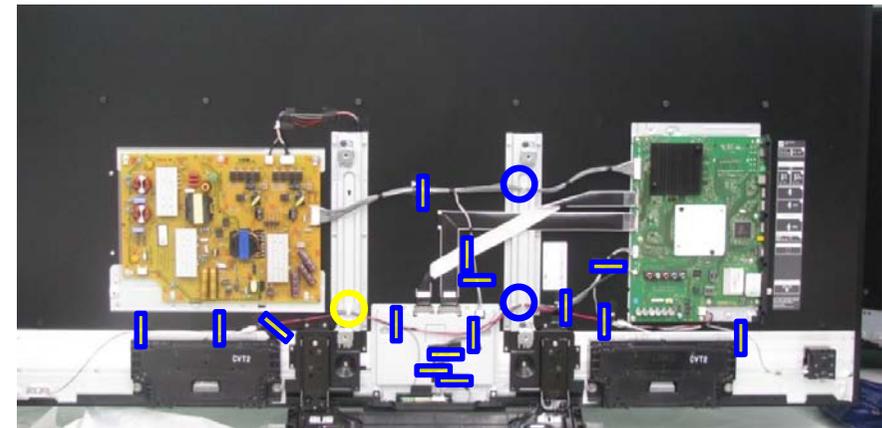
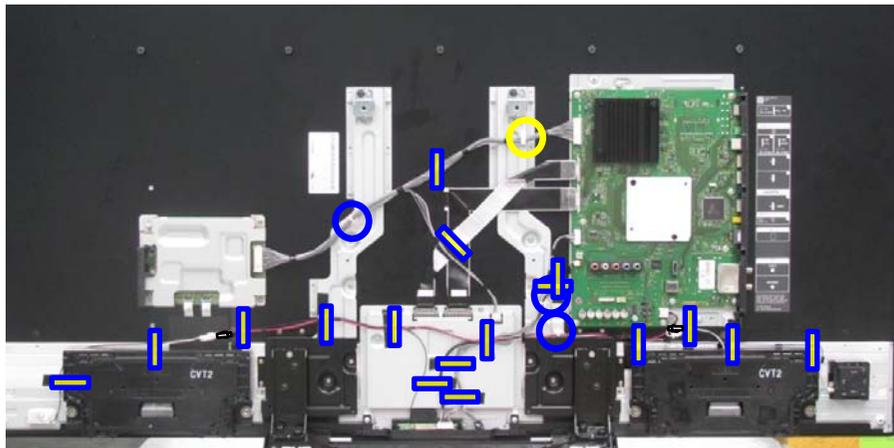
OVERVIEW

**KD-55XD8505/8577/8588/8599,
FW-55XD8501**

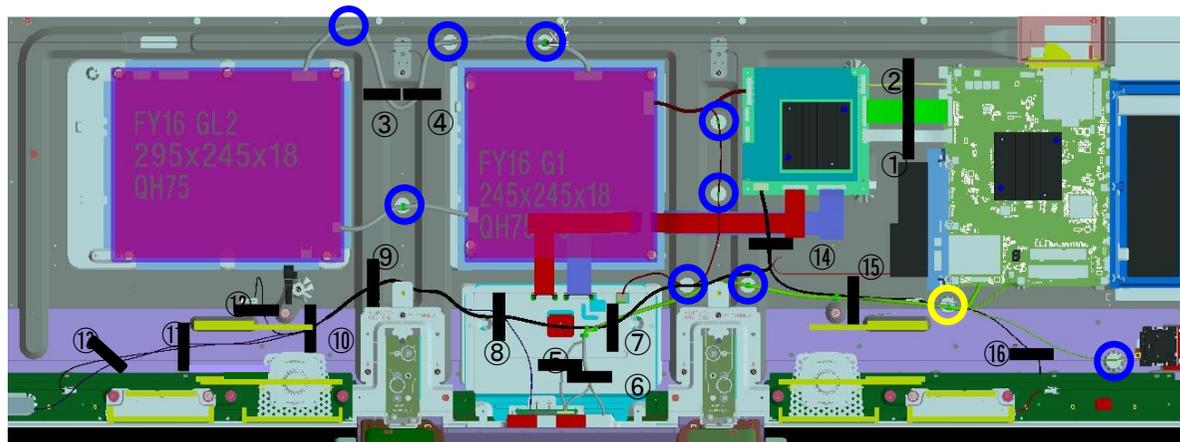
-  VA Tape x17
• Fix wire
-  Harness Tie x3
• Fix wire
-  Slide Clamp x1
• Hold wires

**KD-65XD8505/8577/8599,
FW-65XD8501**

-  VA Tape x15
• Fix wire
-  Harness Tie x3
• Fix wire
-  Slide Clamp x1
• Hold wires



KD-75XD8505, FW-75XD8501



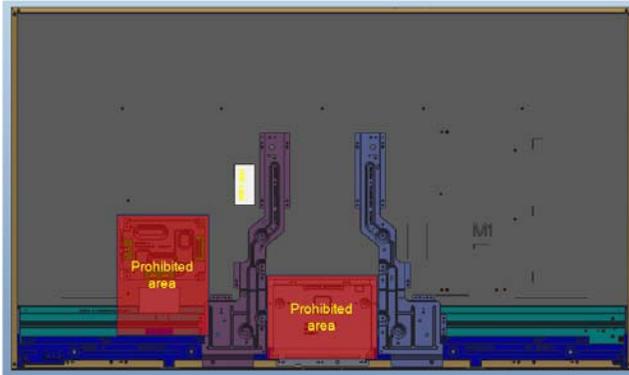
-  VA Tape x16
• Fix wire
-  Harness Tie x9
• Fix wire
-  Slide Clamp x1
• Hold wires

PANEL HANDLING

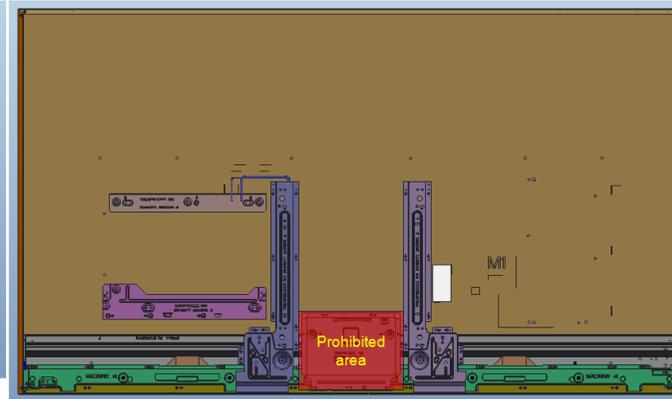
PANEL HANDLING PROHIBITED AREA

Please do not touch **red** area (T-CON & LD Area) and glass(Screen), when you hold a panel.

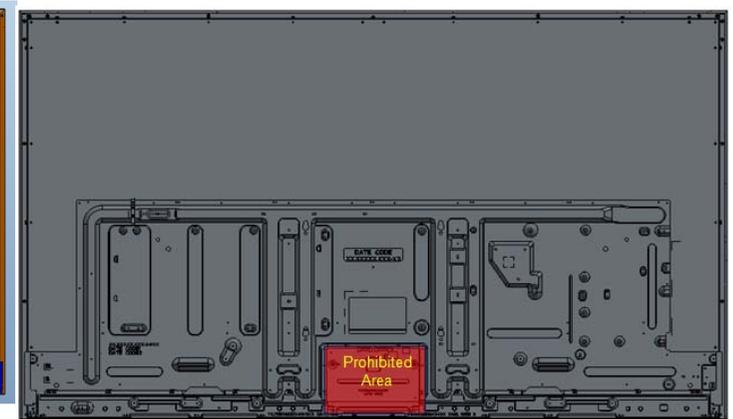
KD-55XD8505/8577/8588/8599,
FW-55XD8501



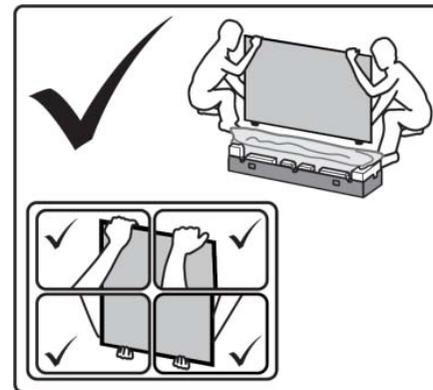
KD-65XD8505/8577/8599, FW-65XD8501



KD-75XD8505, FW-75XD8501



Glass(Screen)surface

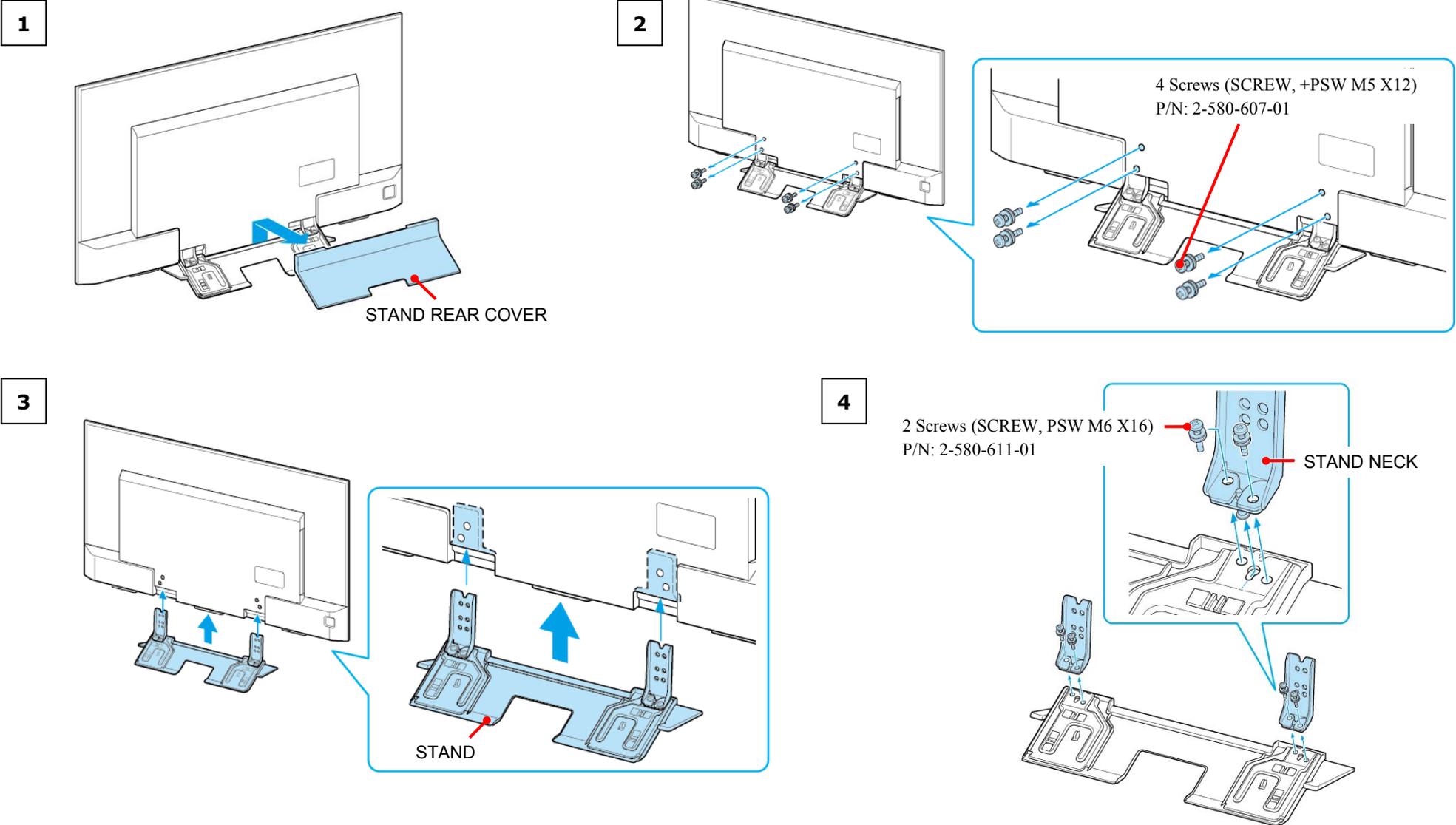


DISASSEMBLY

• There are clutch in the yellow frame[]. Therefore please be careful in the case of the disassembly or assembly of parts.

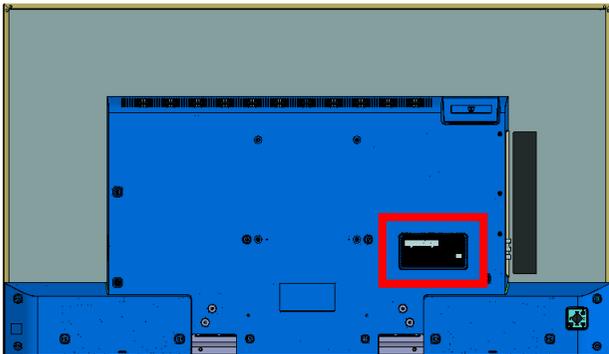
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-1. STAND

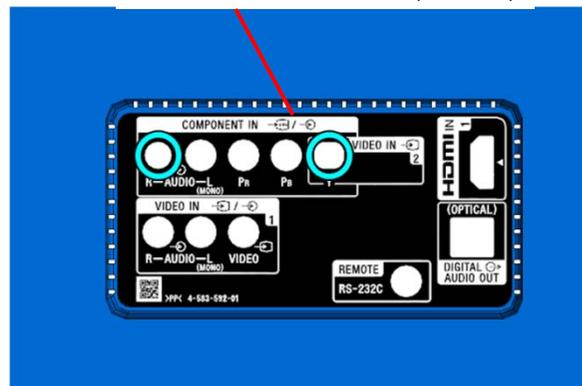


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-2. LABEL, REAR TERMINAL (PDT M1)



LABEL, REAR TERMINAL (PDT M1)

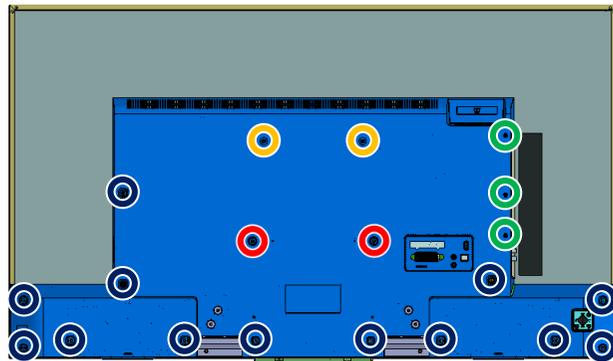


Positioning hole

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

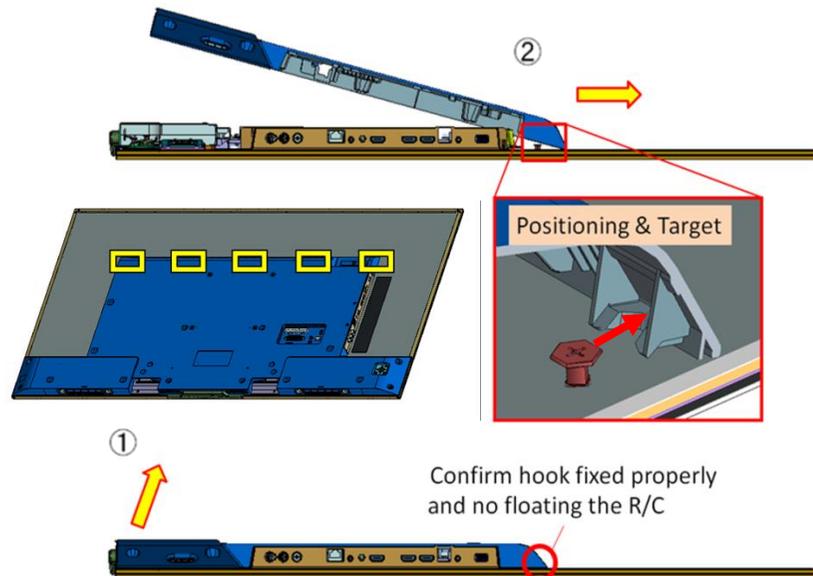
1-3. REAR COVER (M1_L_PDT) A

1

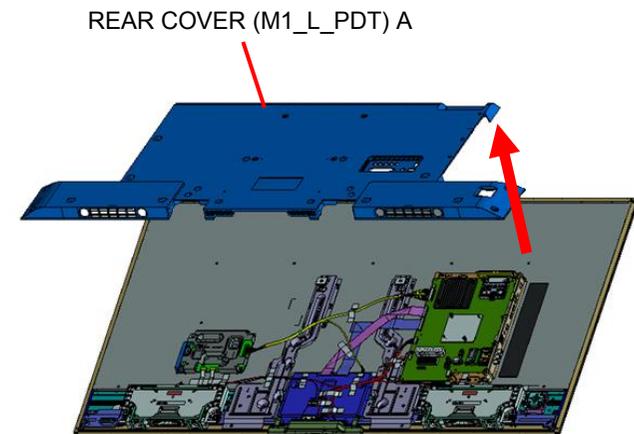


- 2 screws (SCREW, +PSW M4X10) P/N: 4-159-298-01
- 2 screws (SCREW, ORNAMENTAL M6X12) P/N: 4-268-126-02
- 3 screws (SCREW +BVTP 3X10 TYPE2 IT-3) P/N: 7-685-647-79
- 13 screws (SCREW M3X3.0 STEP) P/N: 4-579-926-01

2

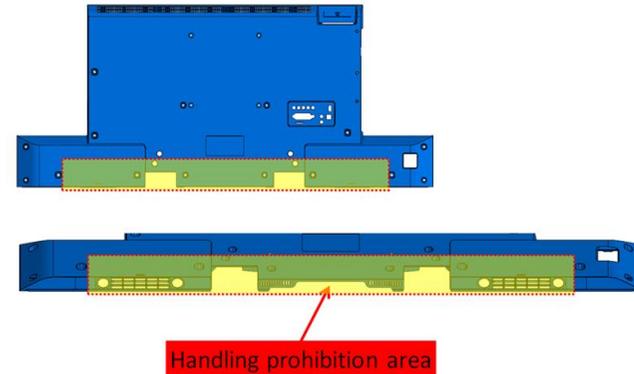


3



Don't hit R/C to BT ANTENNA.

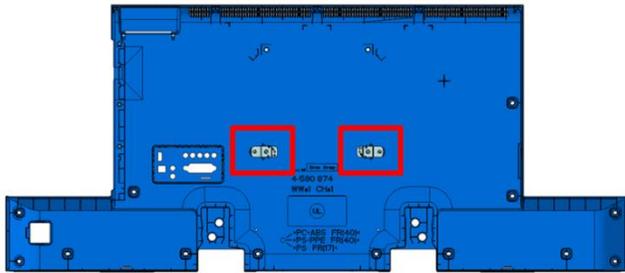
Handling guidance for while Assy R/C.



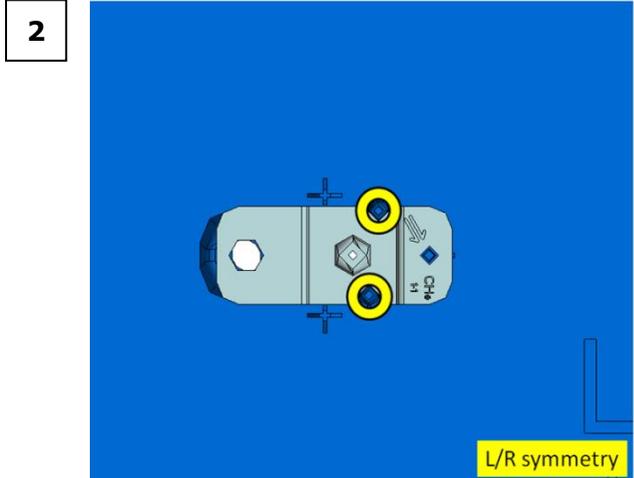
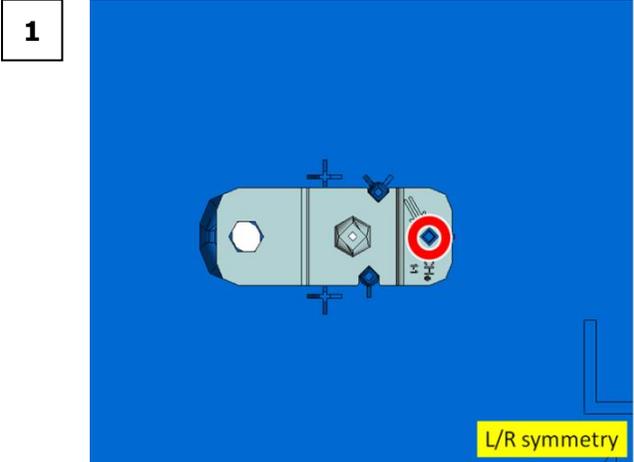
If you are going to ignore the handling prohibition area and assemble R/C (Rear Cover), when holding a middle portion, that curves then hooks will not be easily caught. And when holding SP grille portion, you will touch a speaker cone. On the other hand, when disassembling RC, you can ignore the handling prohibition area. Please refer to Appendix-1.

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

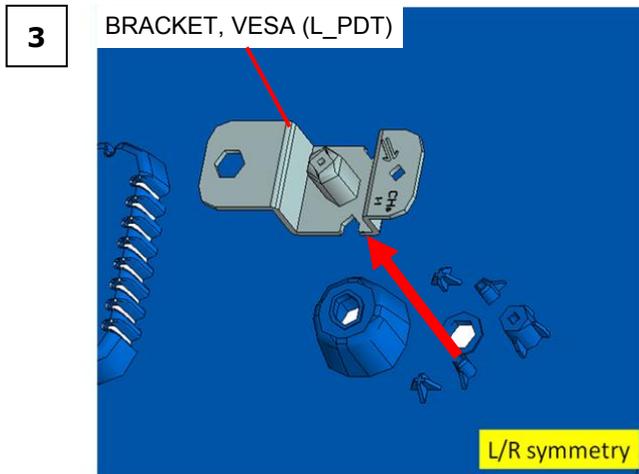
1-4. BRACKET, VESA (L_PDT)



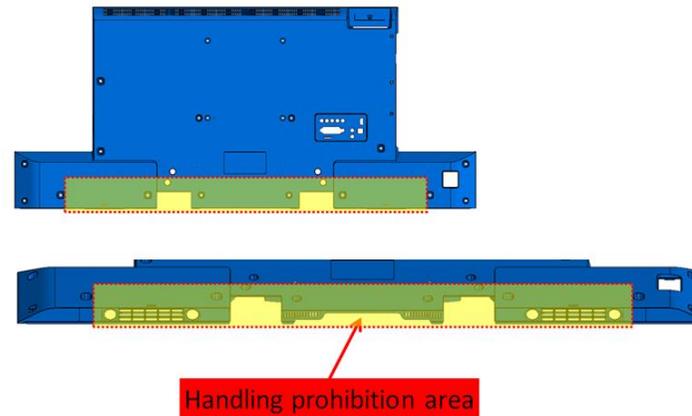
*Inner side view of Rear Cover



○ Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: 7-685-646-79

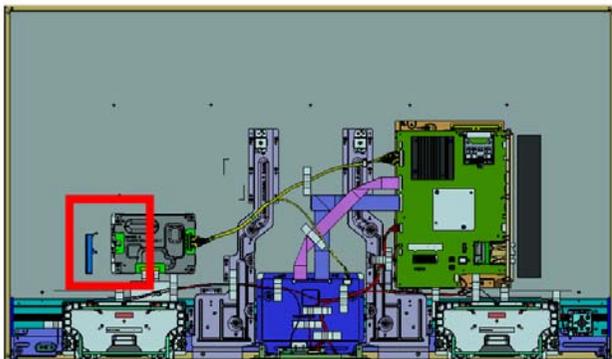


Handling guidance for while Assy R/C.

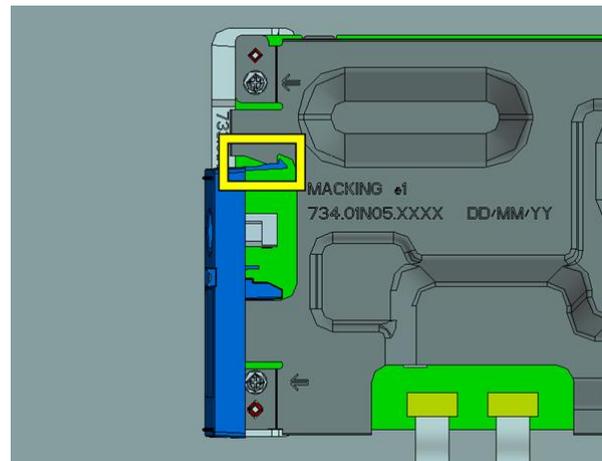


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

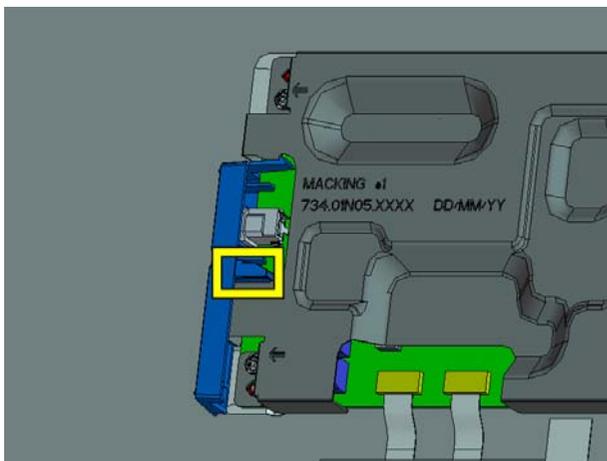
1-5. BRACKET, DC JACK (PDT)



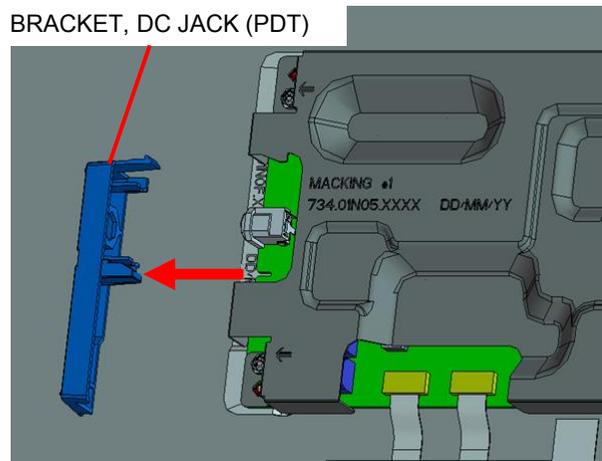
1



2

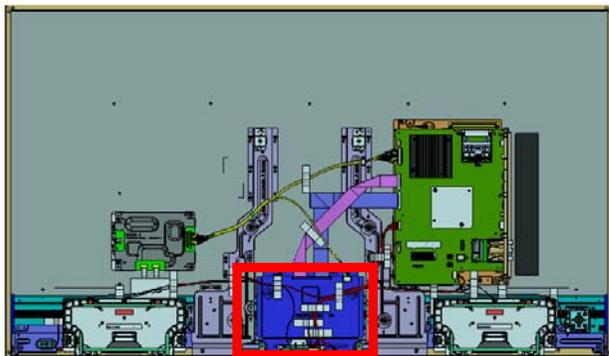


3

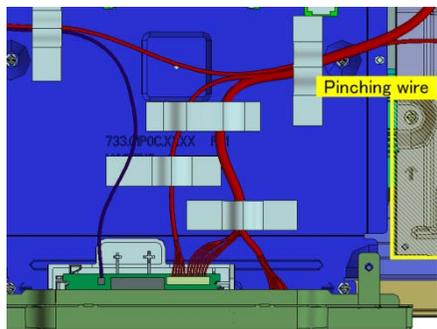
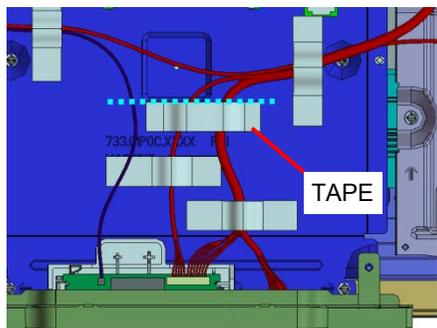


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

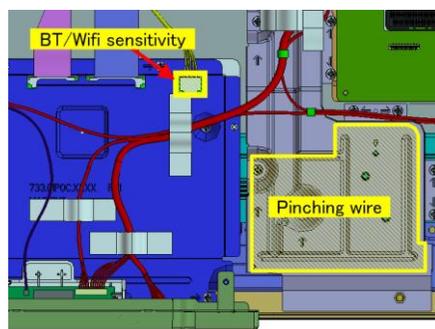
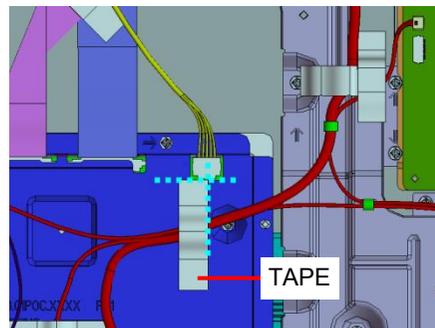
1-6. TAPE



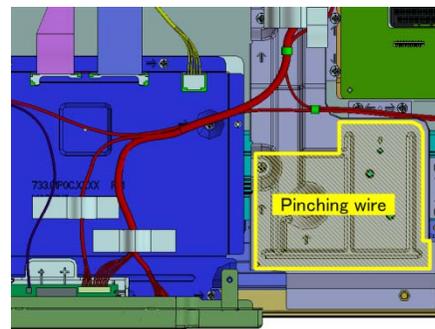
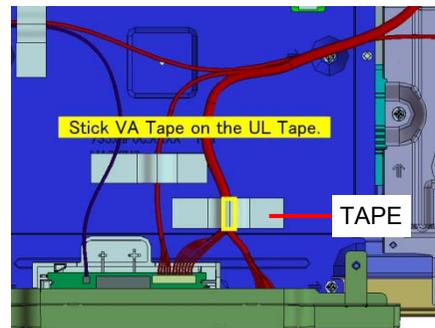
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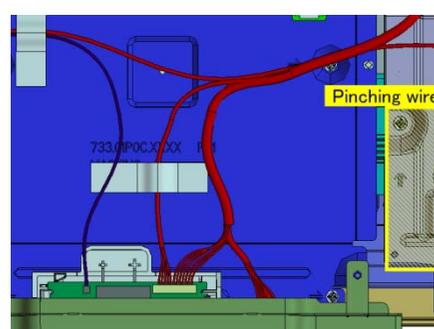
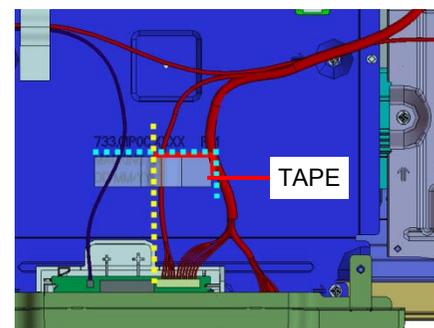
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3

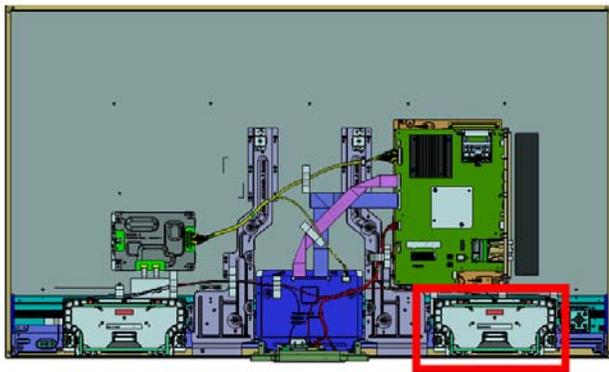


4

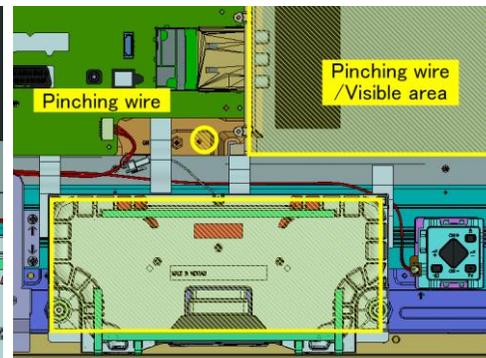
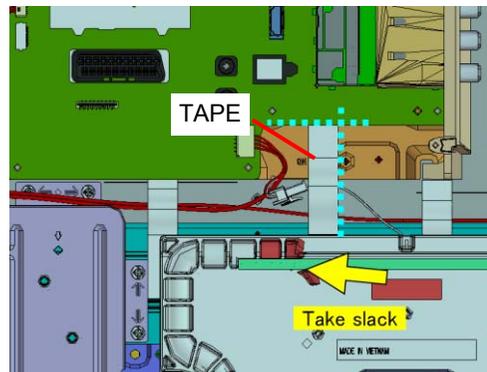


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

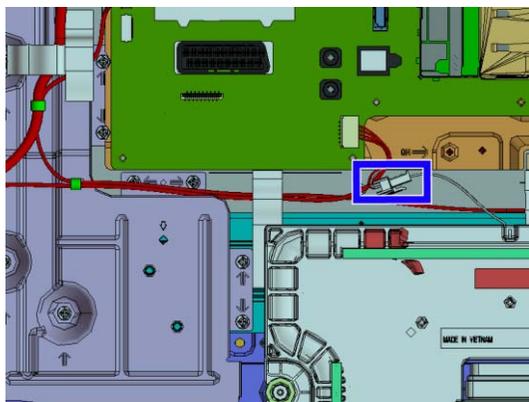
1-7. TAPE AND SP-BOX ASSY, W25 (L)-E



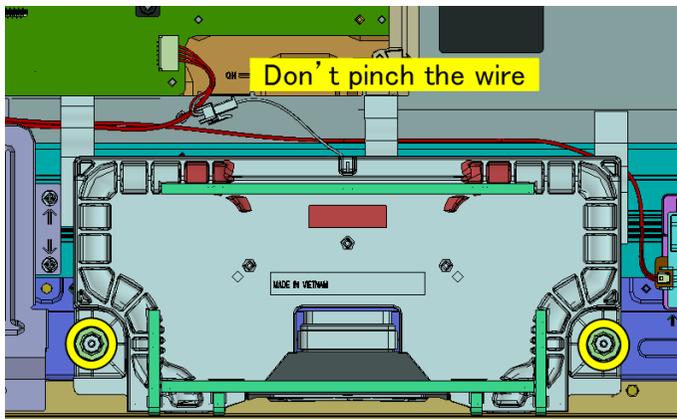
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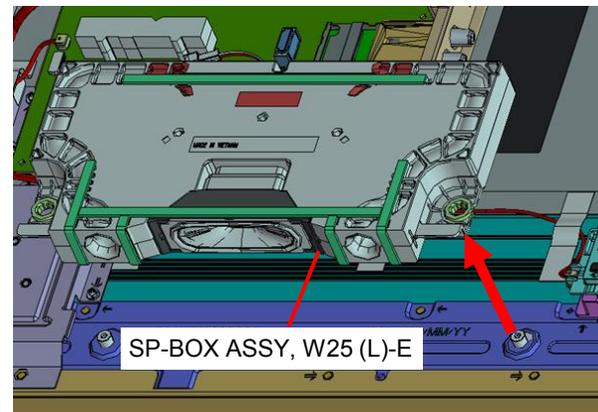
2



3

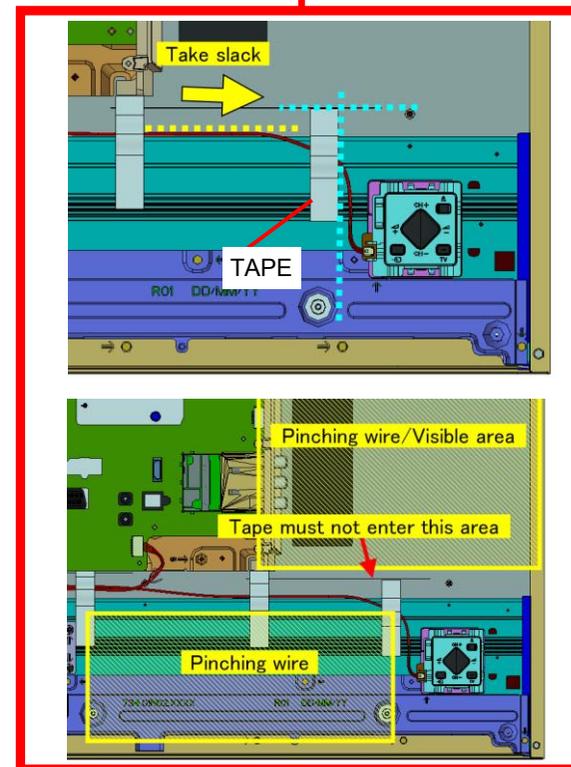
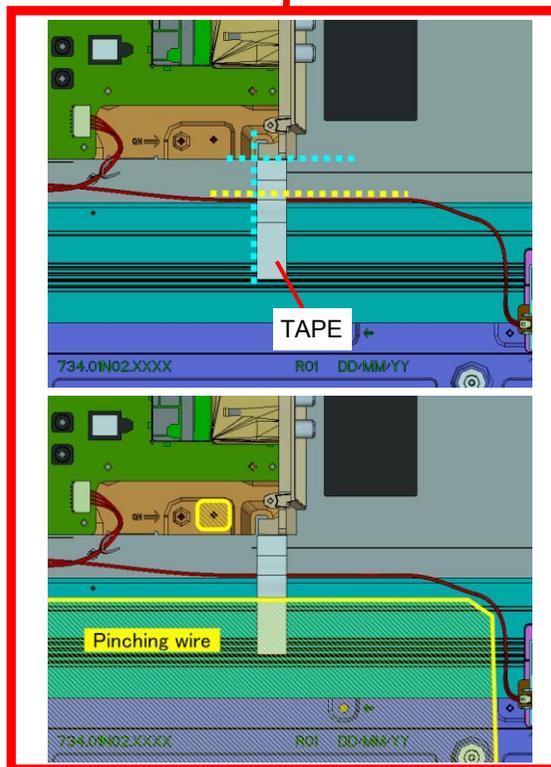
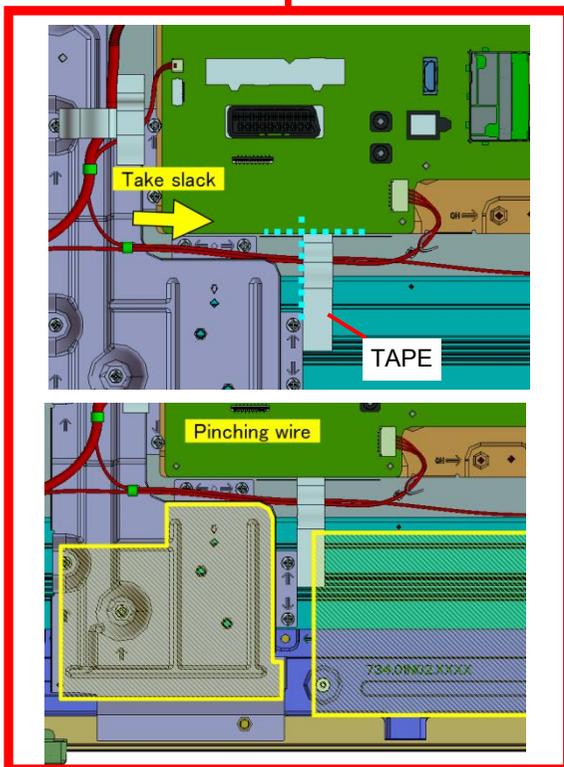
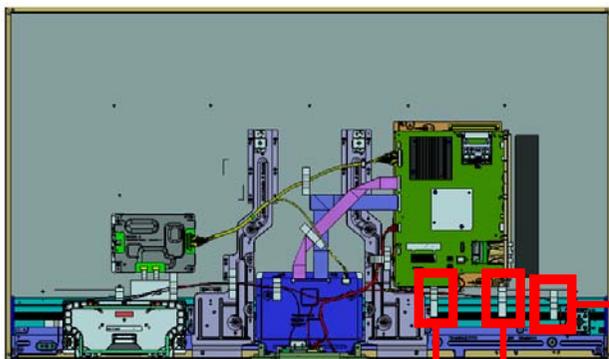


4



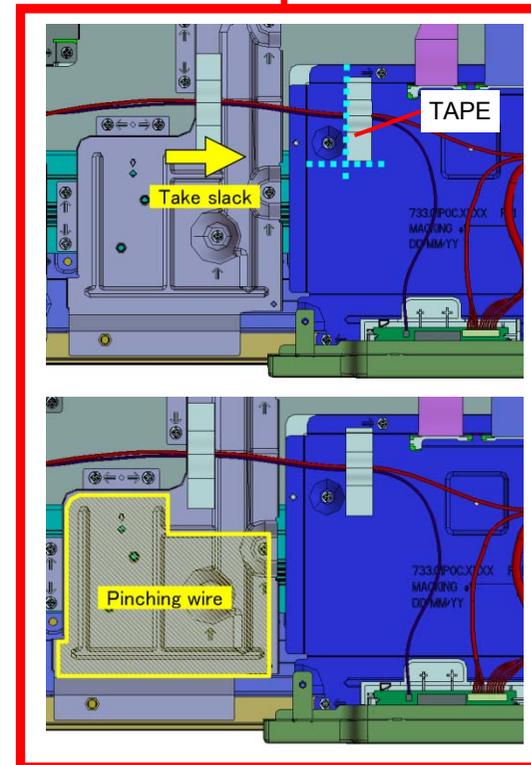
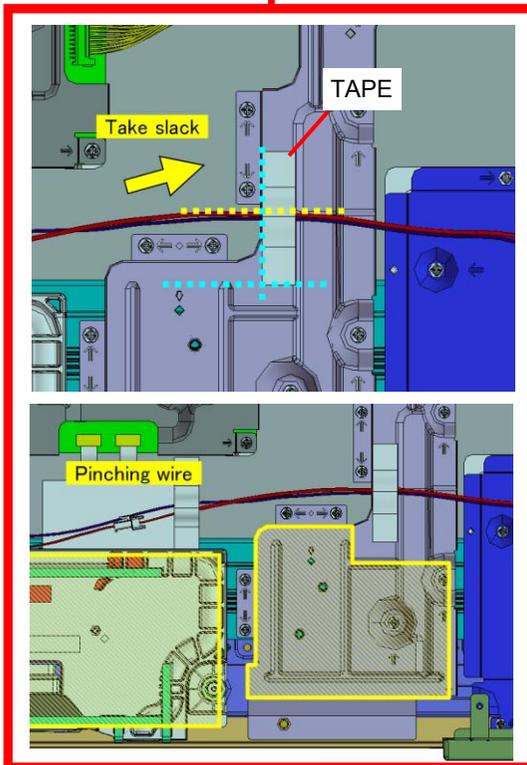
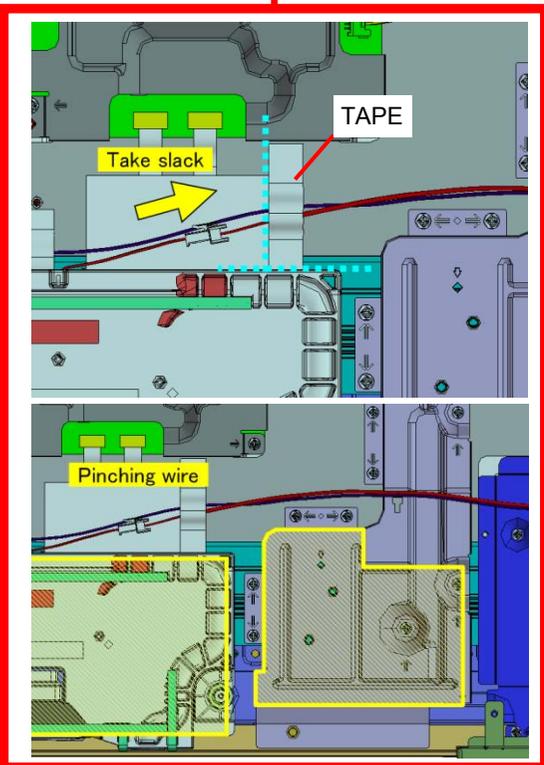
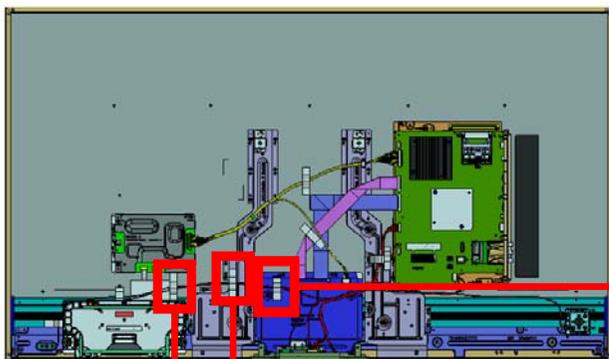
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-8. TAPE



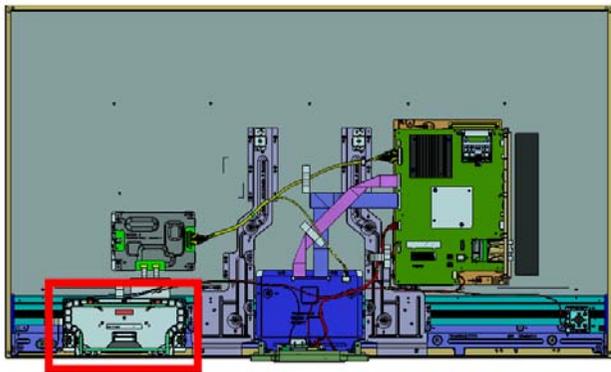
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-9. TAPE

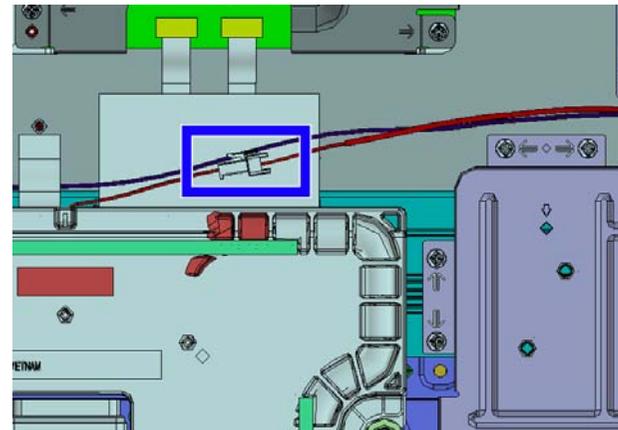


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

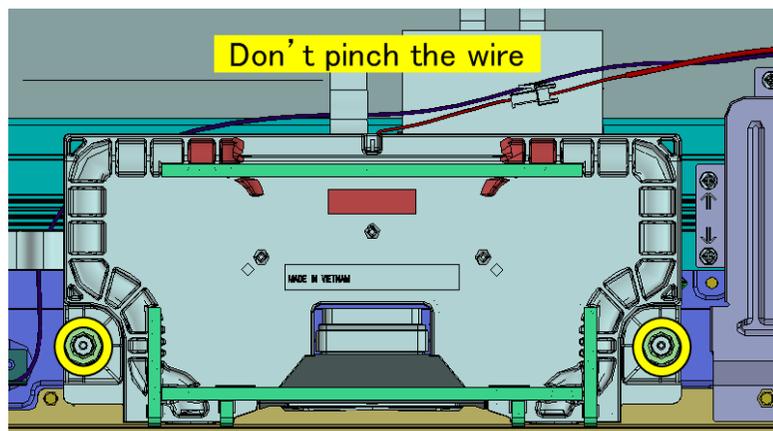
1-10. SP-BOX ASSY, W25 (L)-E



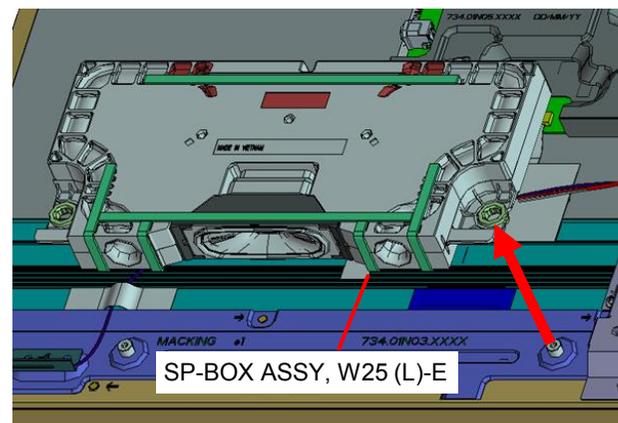
1



2

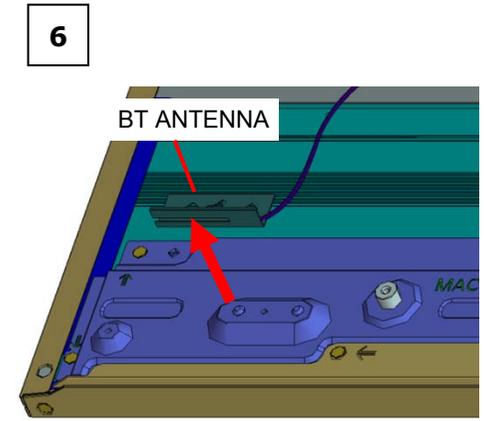
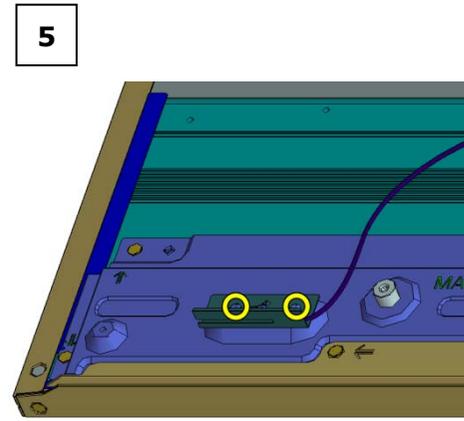
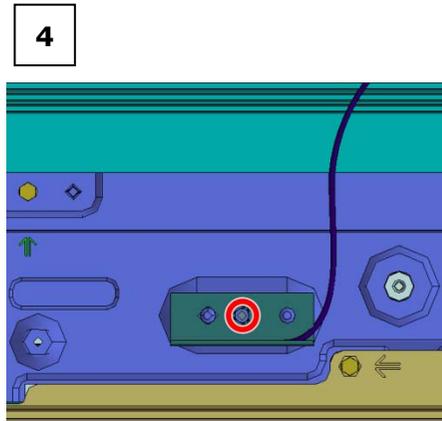
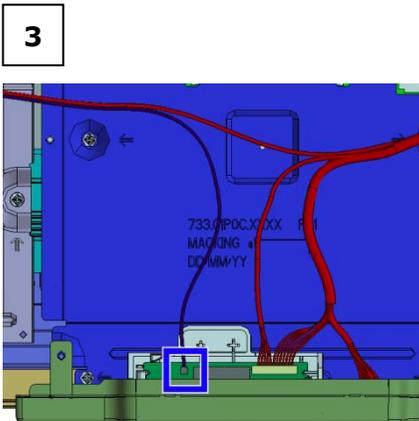
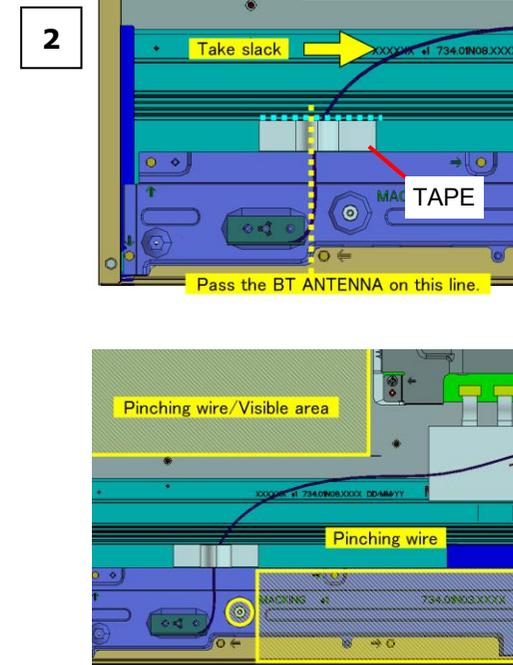
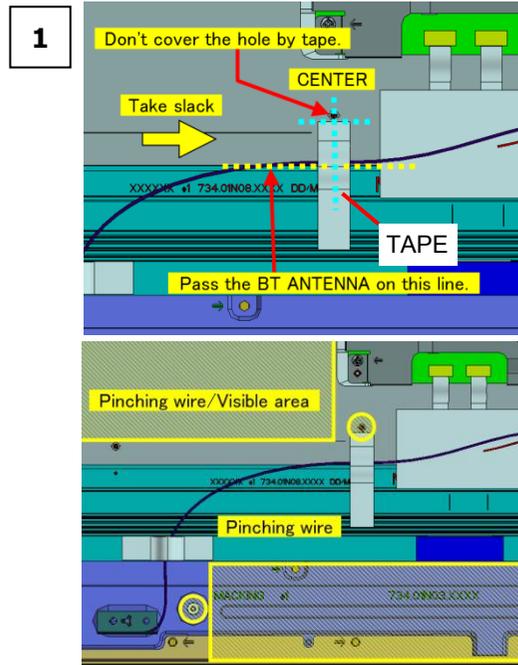
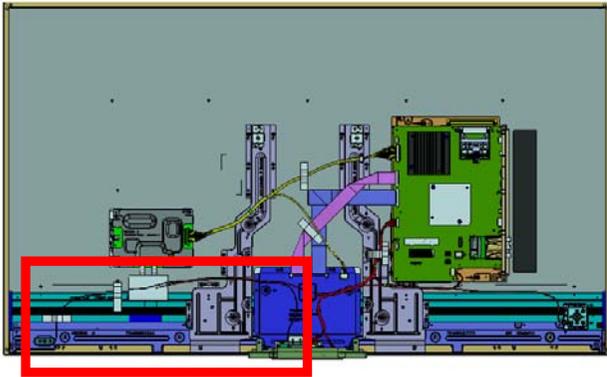


3



1. KD-55XD8505/8577/8588/8599, FW-55XD8501

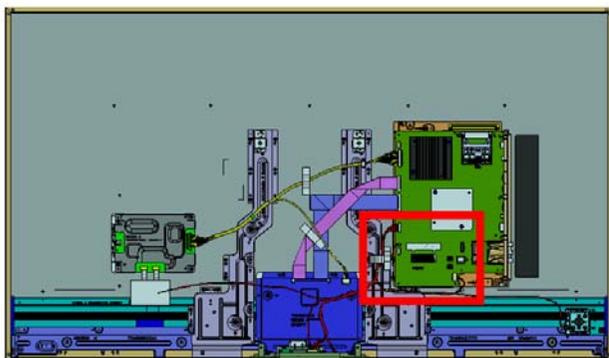
1-11. TAPE AND BT ANTENNA



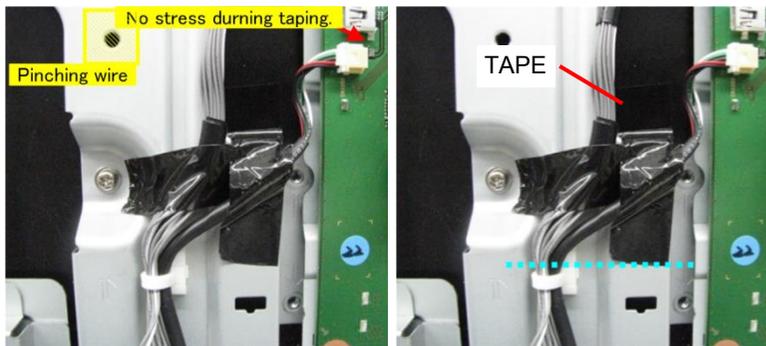
 Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

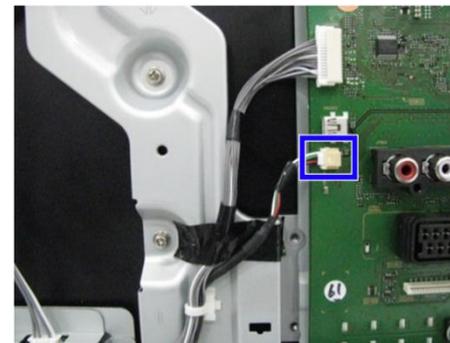
1-12. TAPE



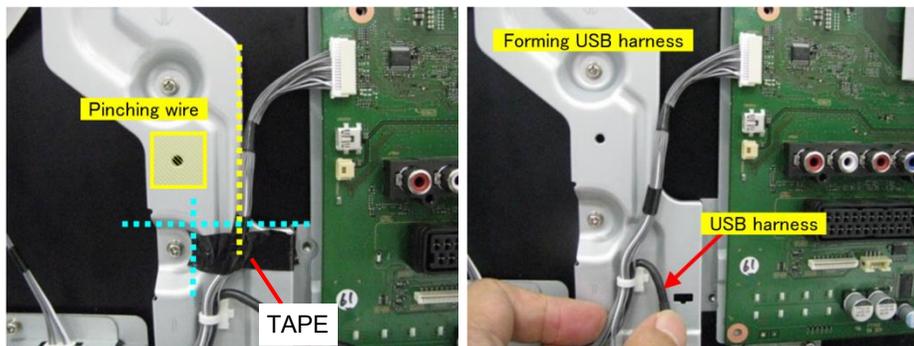
1



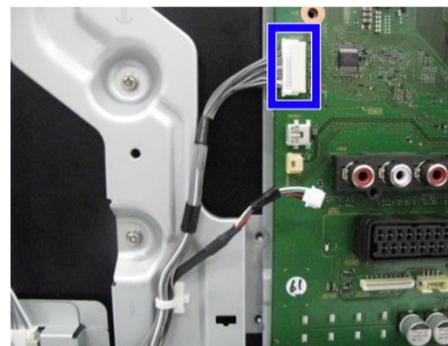
2



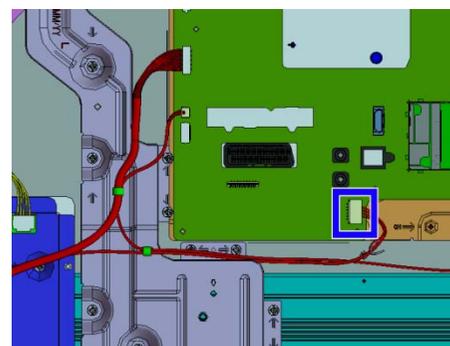
3



4

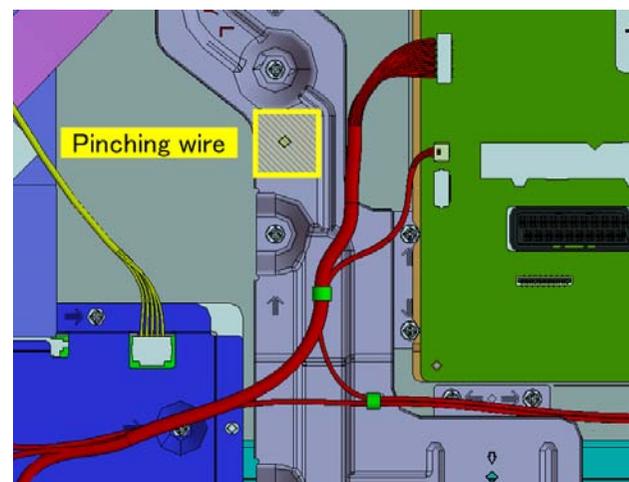
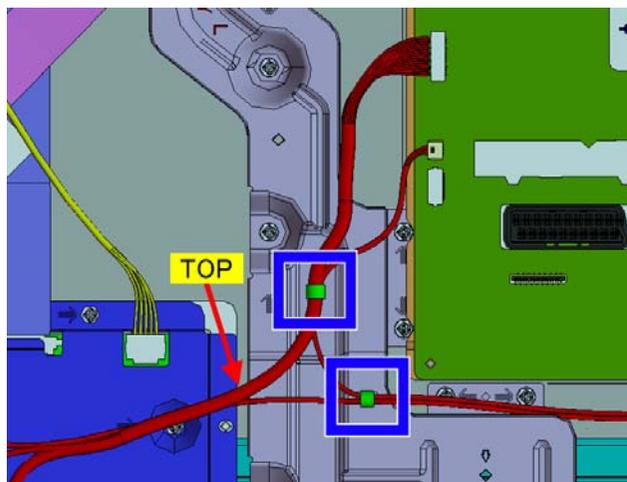
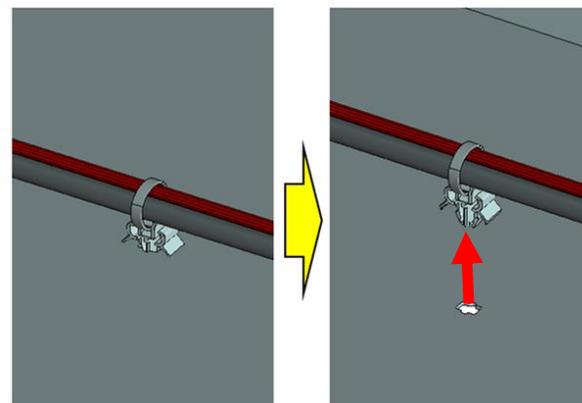
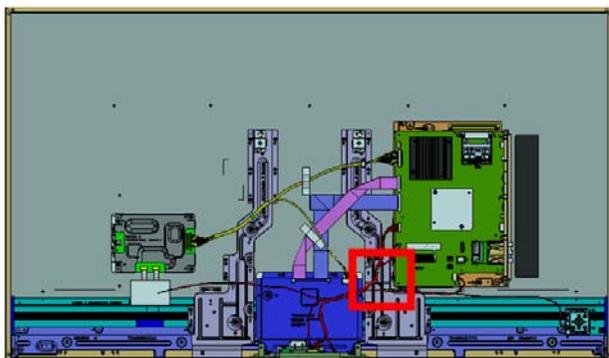


5



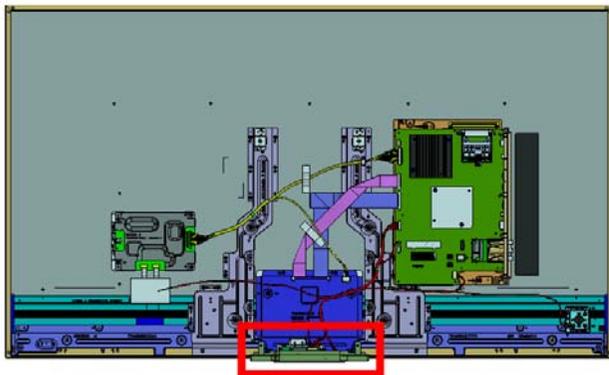
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-13. WIRE DRESSING



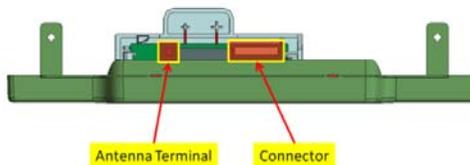
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-14. SMART CORE (S)

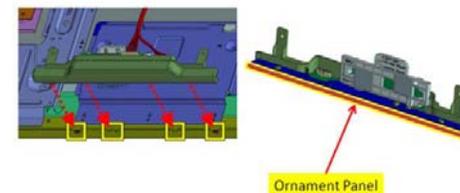


NOTE:

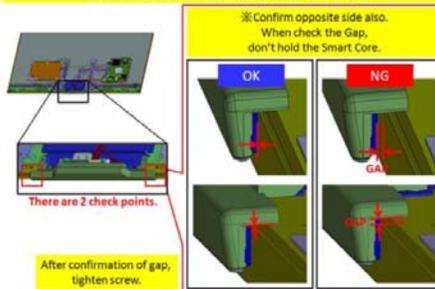
Don't touch these components while installing.



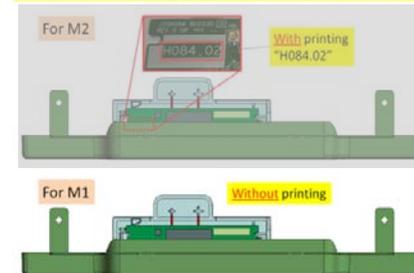
Don't scratch O/P with Bezel while installing.



Confirm Smart Core is assembled properly before tightening screw of Smart Core.

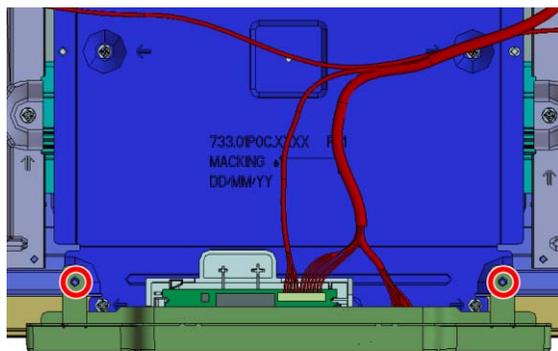


How to distinguish SC for M1 and M2



For This Model

1



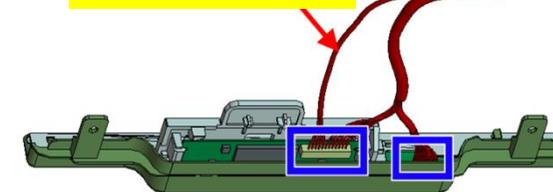
2

SMART CORE (S)



3

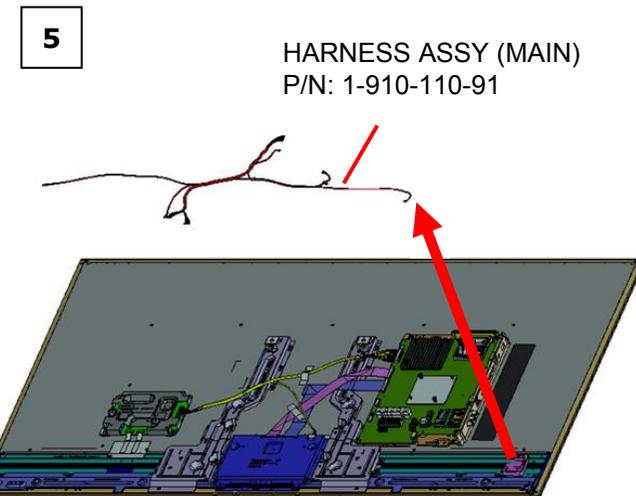
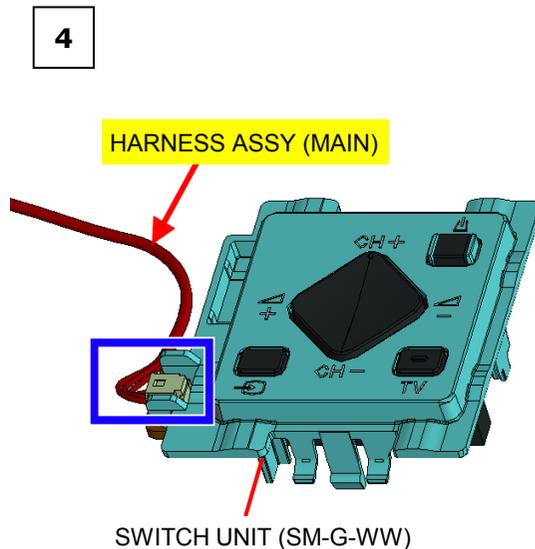
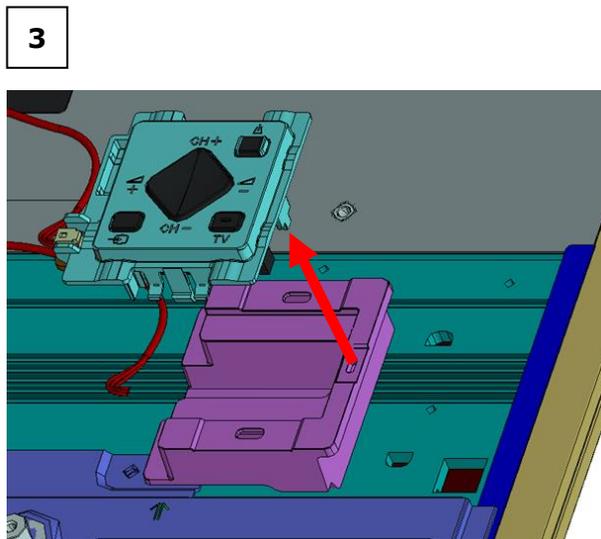
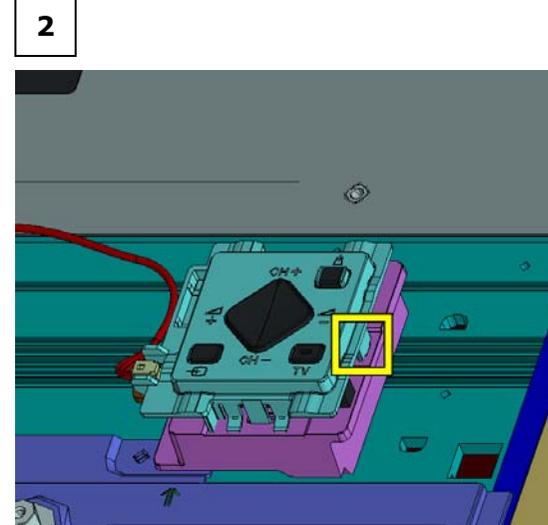
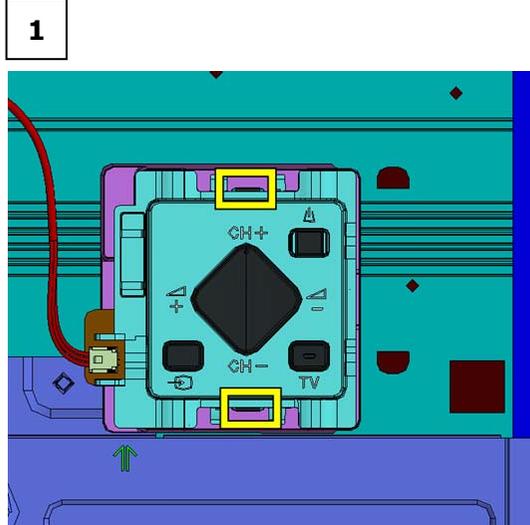
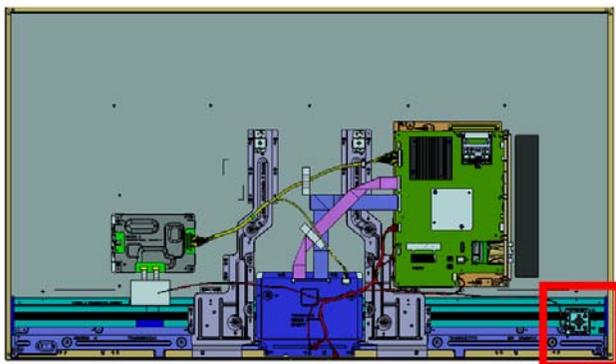
HARNESS ASSY (MAIN)



2 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

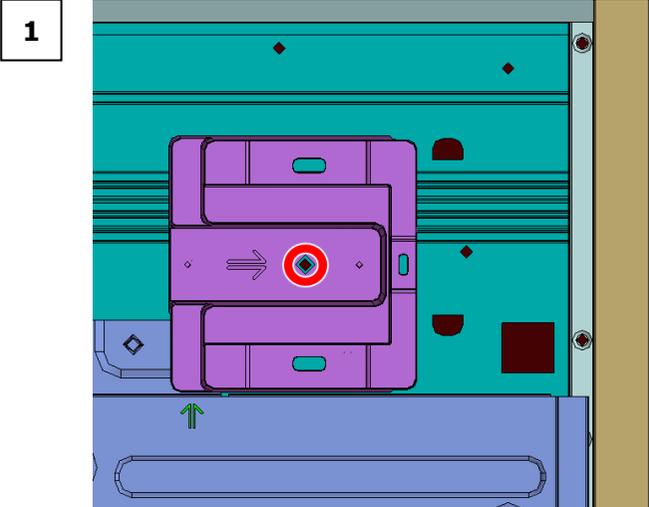
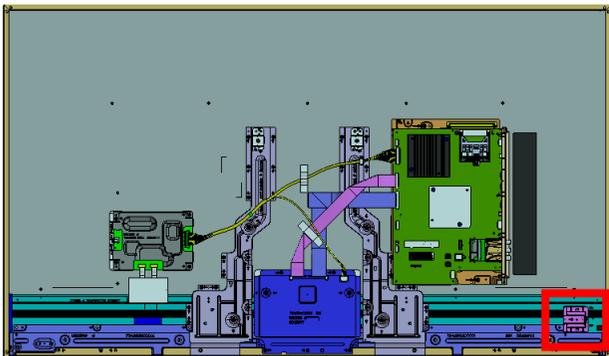
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-15. SWITCH UNIT (SM-G-WW) AND HARNESS ASSY (MAIN)

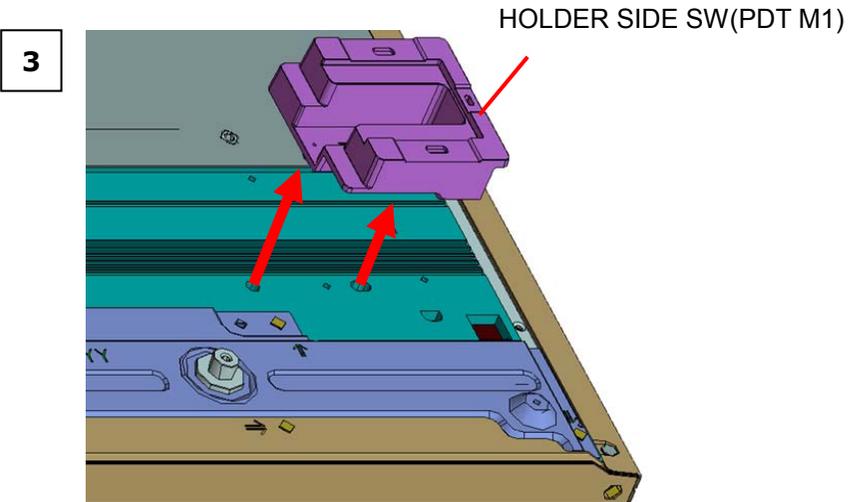
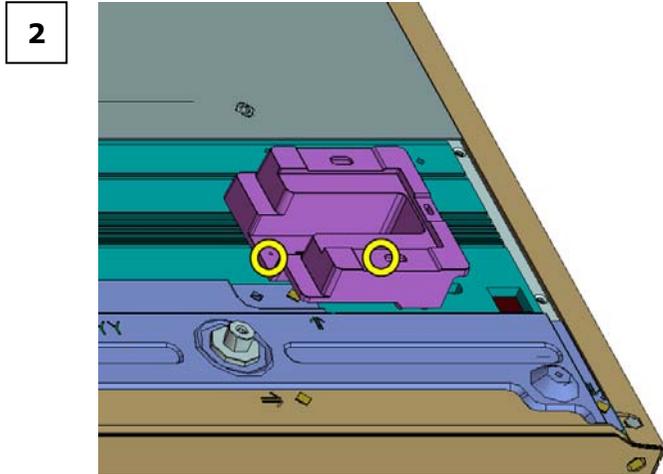


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-16. HOLDER SIDE SW(PDT M1)

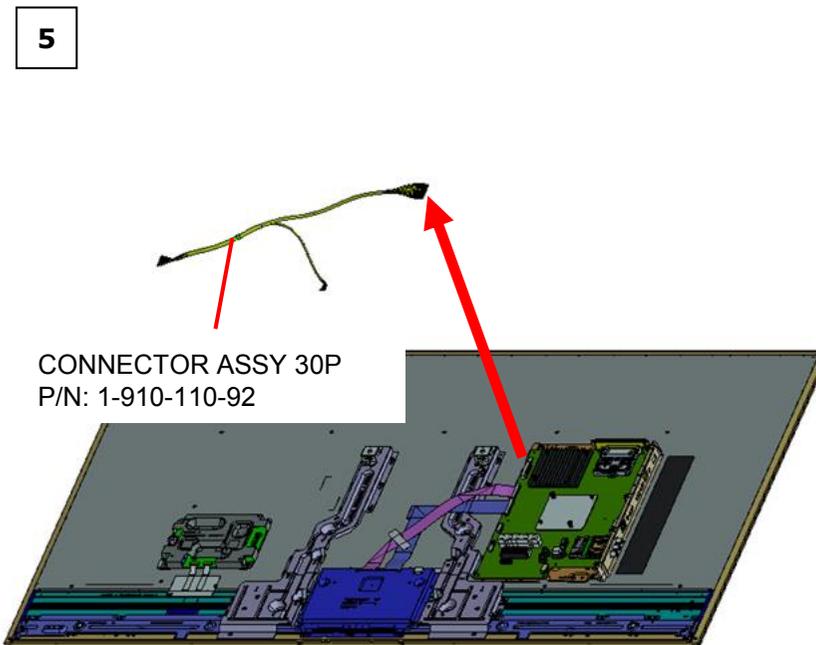
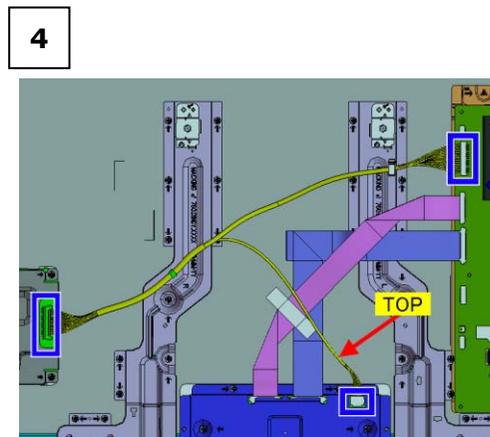
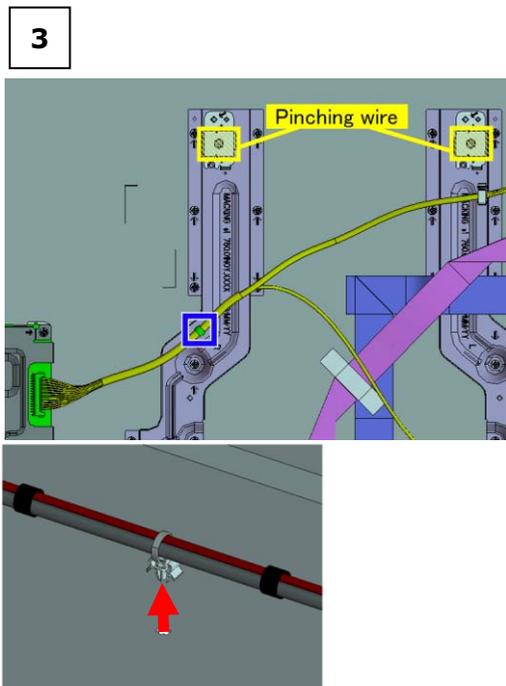
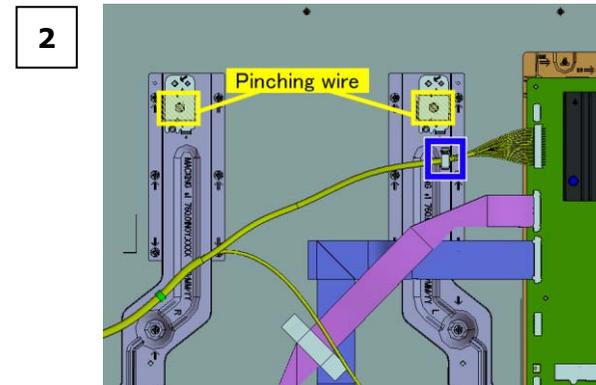
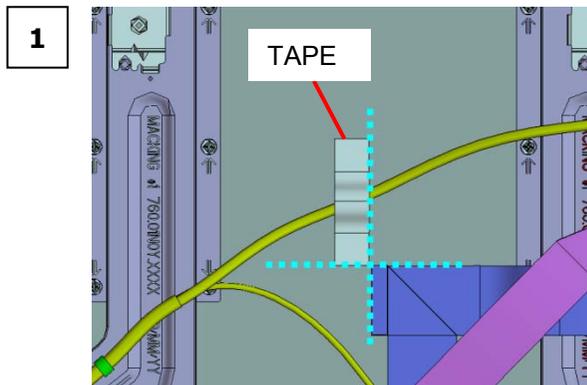
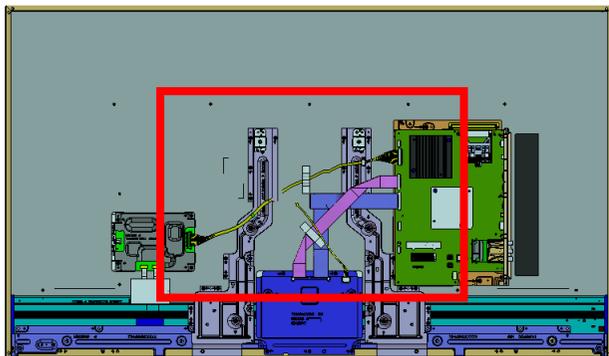


○ Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11



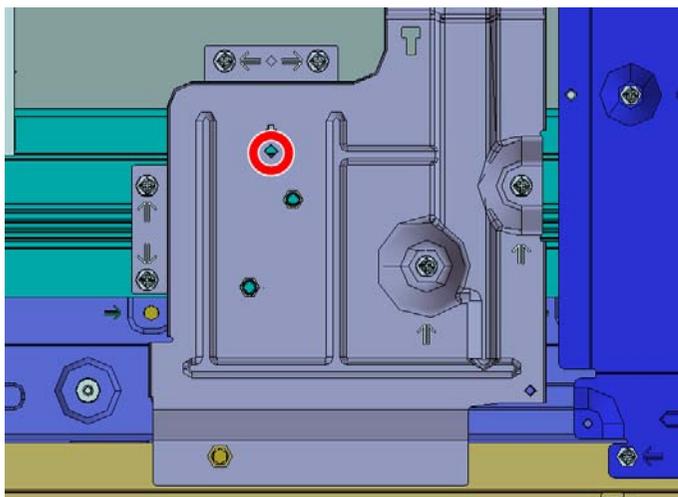
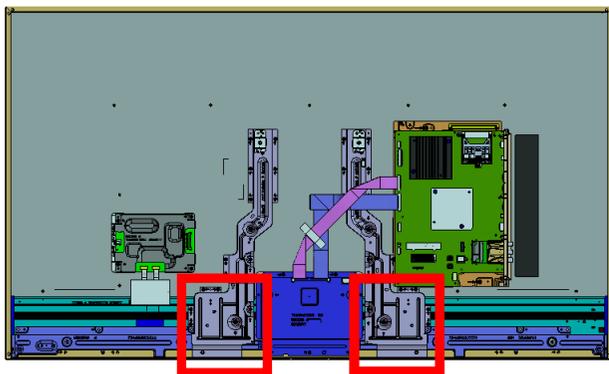
1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-17. TAPE AND WIRE DRESSING AND CONNECTOR ASSY 30P

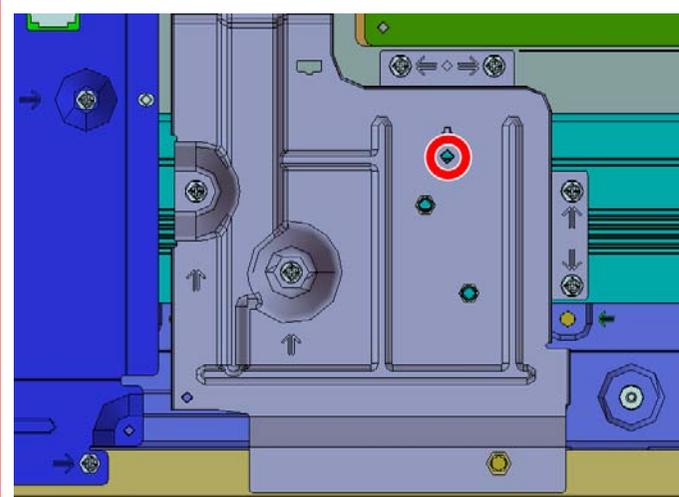


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-18. PULLEY, STAND (HWI)



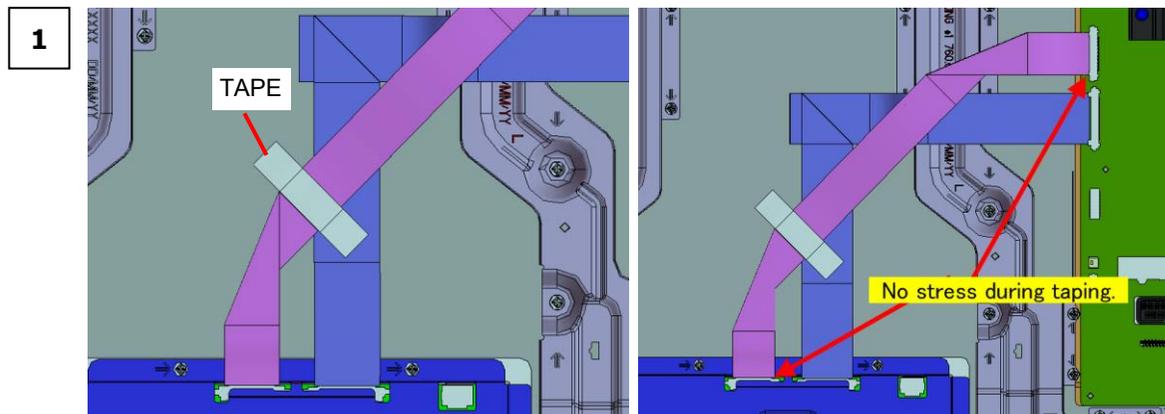
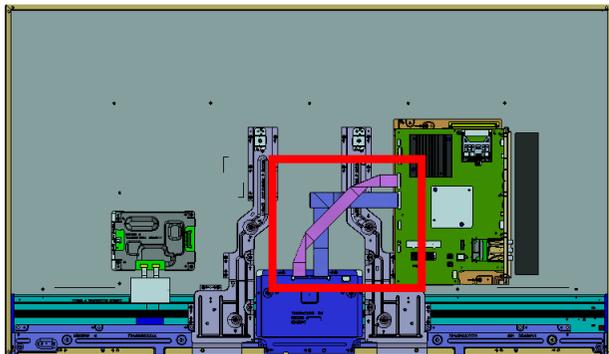
○ PULLEY, STAND (HWI) P/N: 4-534-964-01



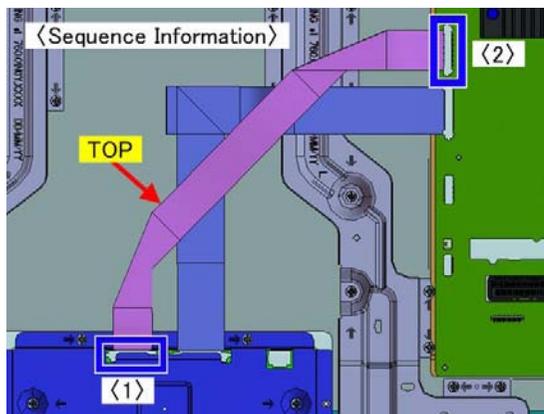
○ PULLEY, STAND (HWI) P/N: 4-534-964-01

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-19. TAPE AND FLEXIBLE FLAT CABLE 41P

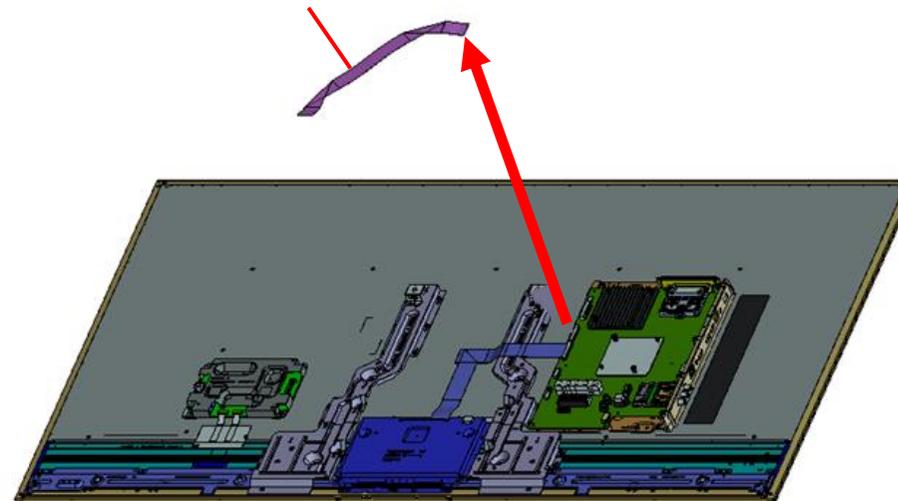


2



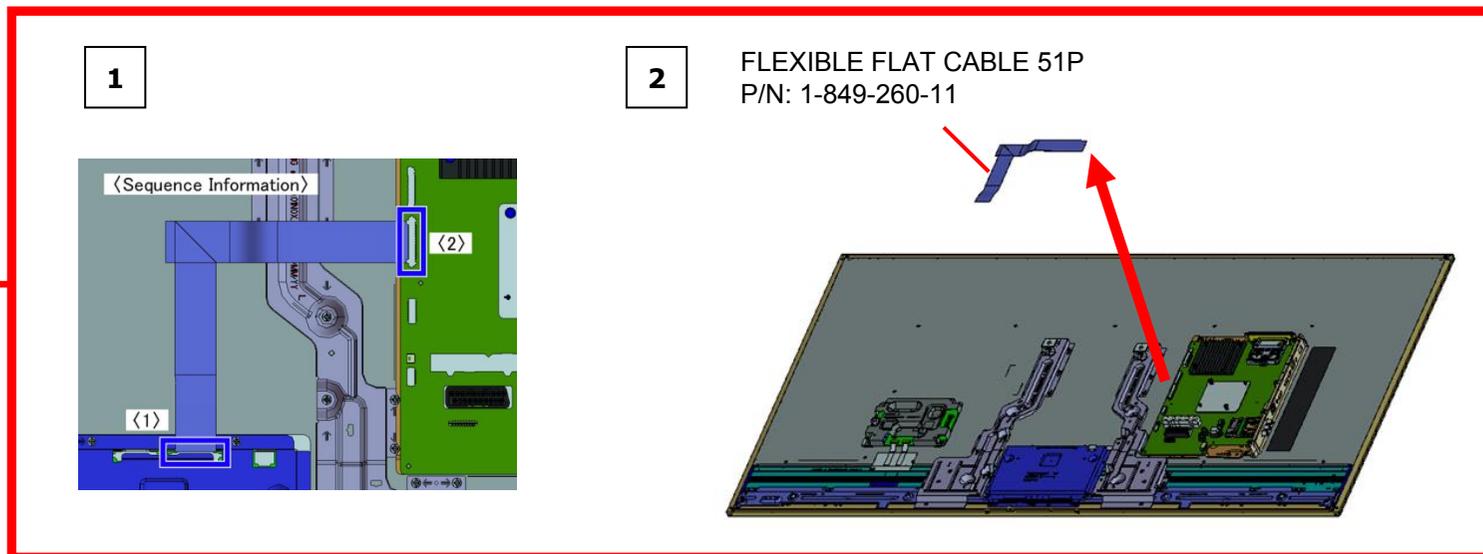
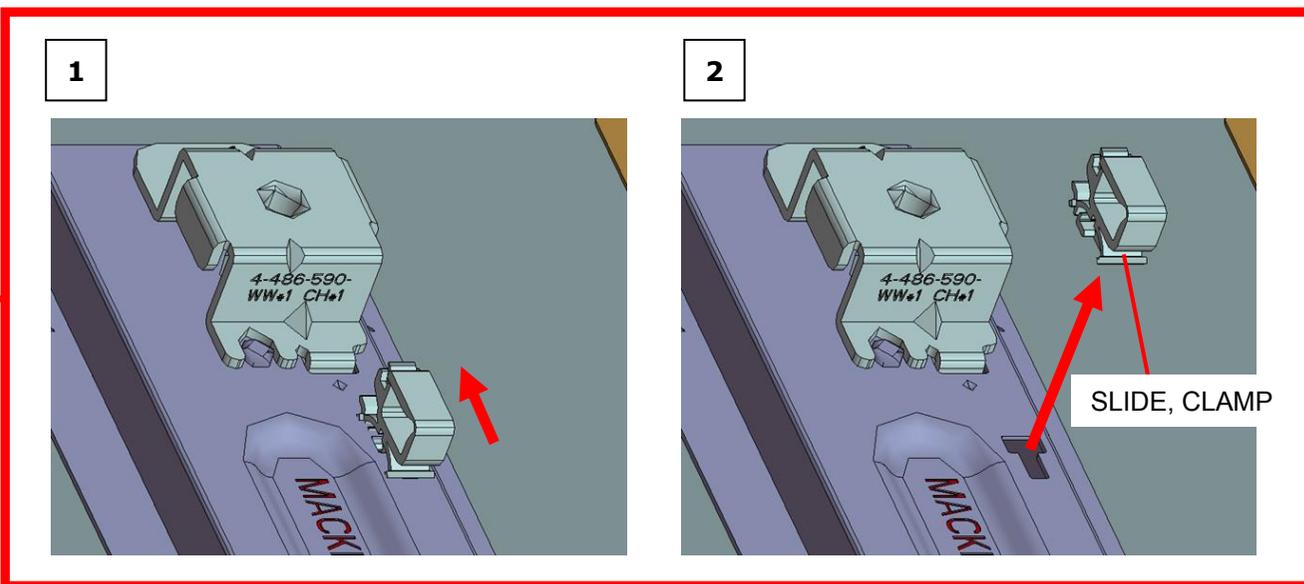
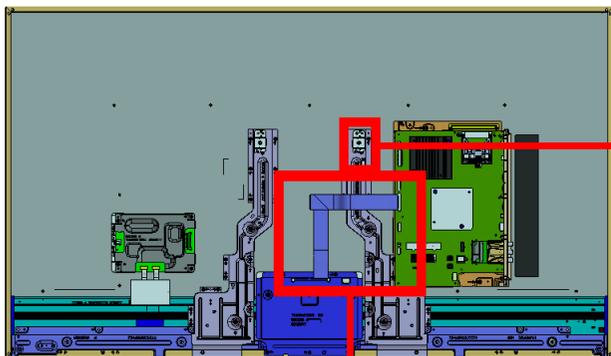
3

FLEXIBLE FLAT CABLE 41P
P/N: 1-849-259-11



1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-20. FLEXIBLE FLAT CABLE 51P AND SLIDE, CLAMP

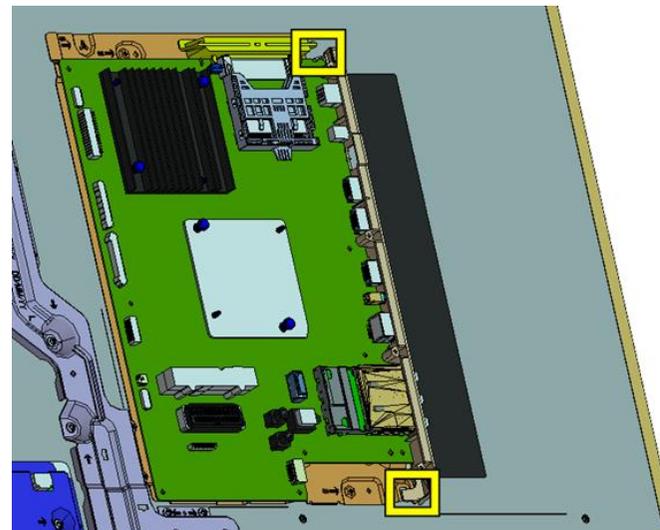


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

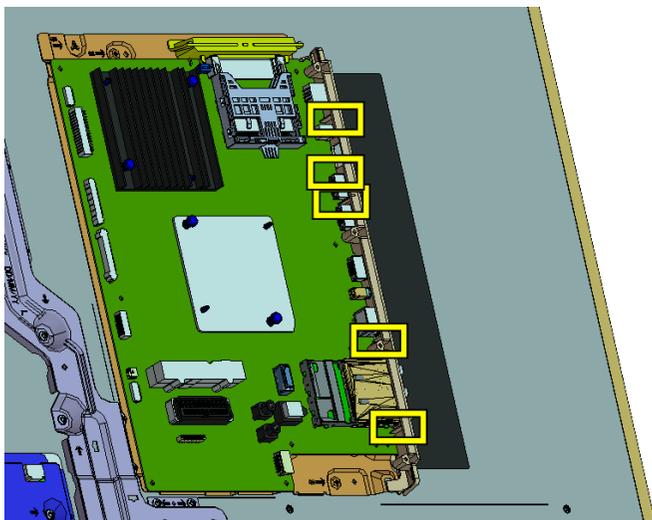
1-21. BRACKET, SIDE (PDT M1)



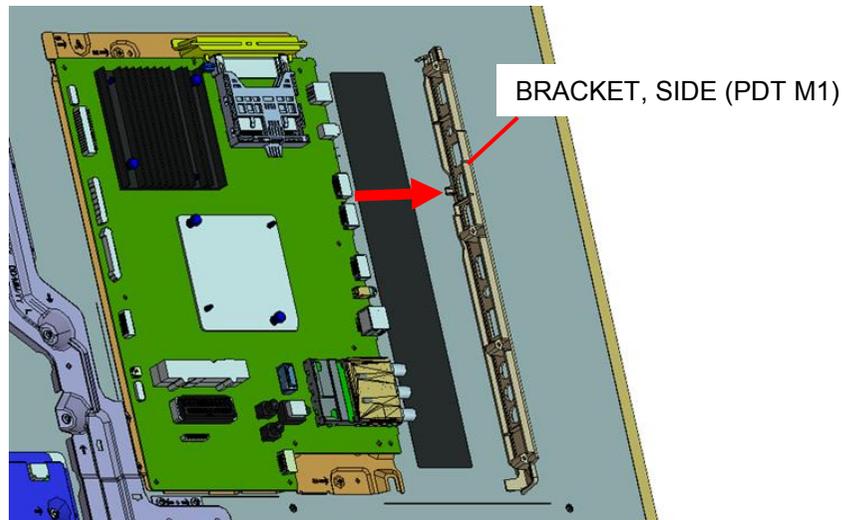
1



2



3

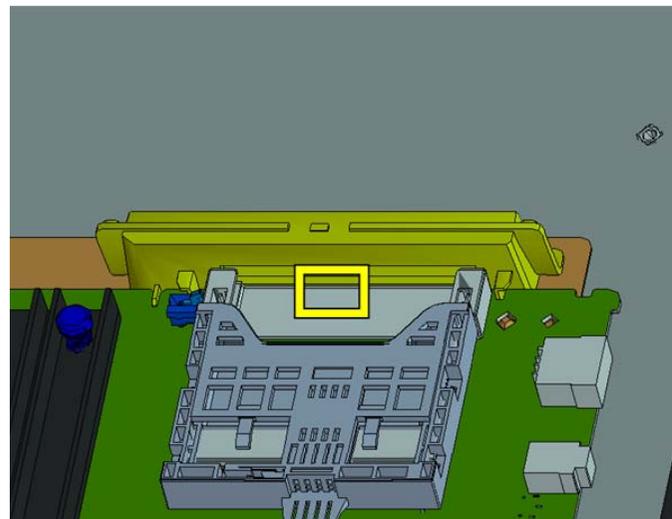


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

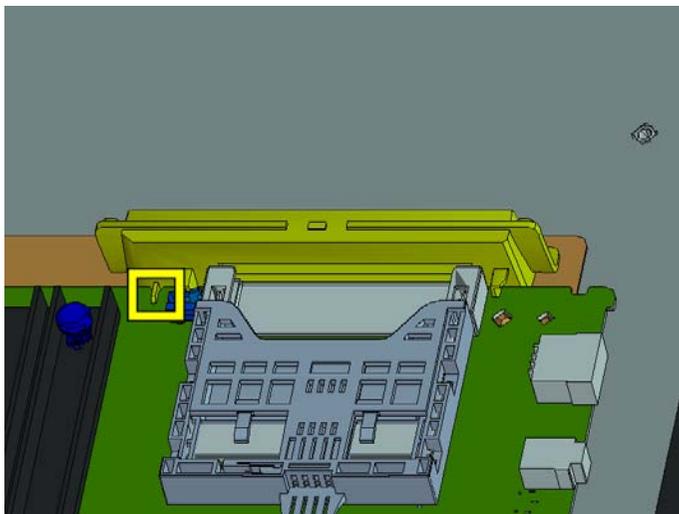
1-22. BRACKET, TOP FL (MOLD)



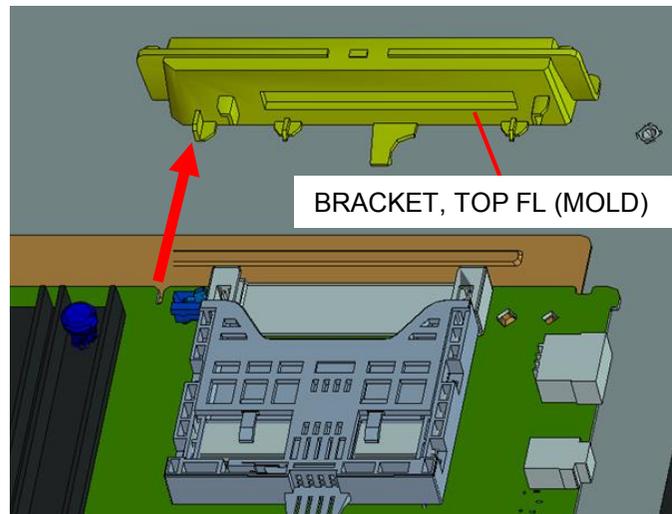
1



2

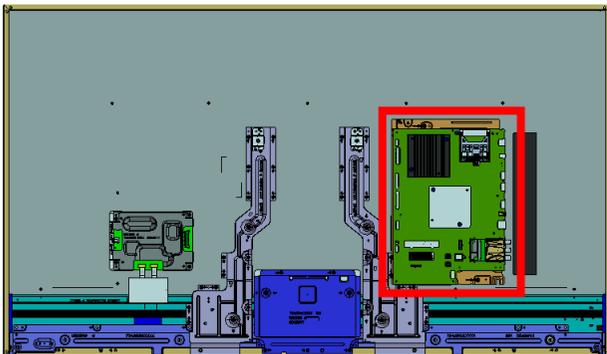


3

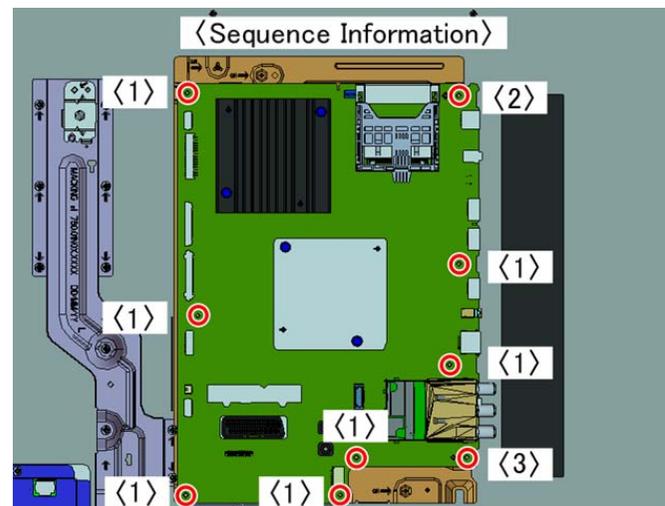


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-23. BMFW2

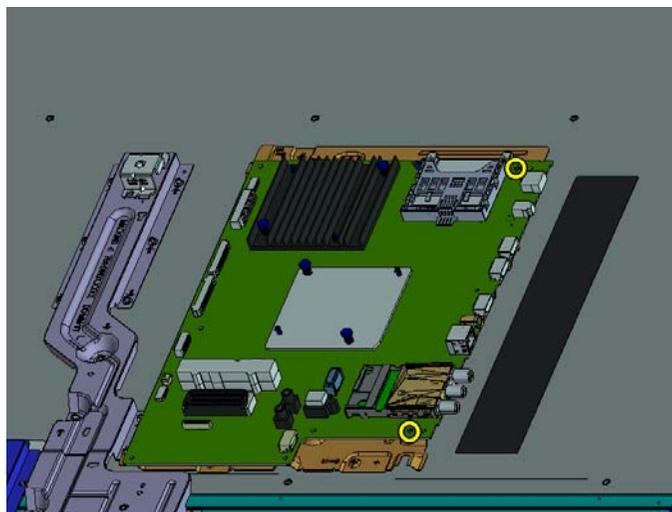


1

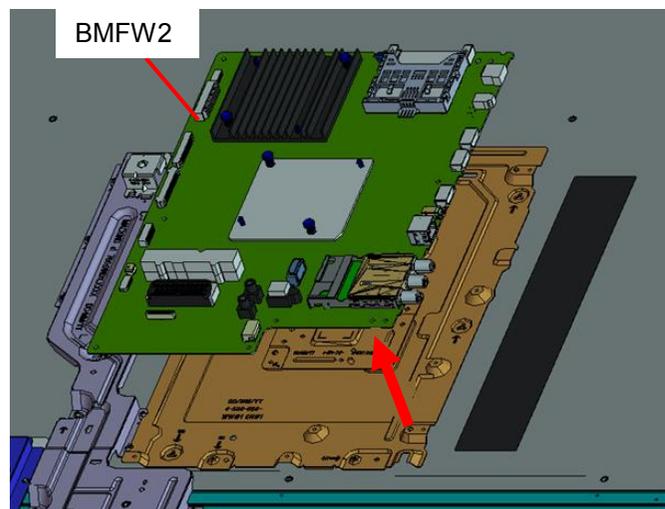


9 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

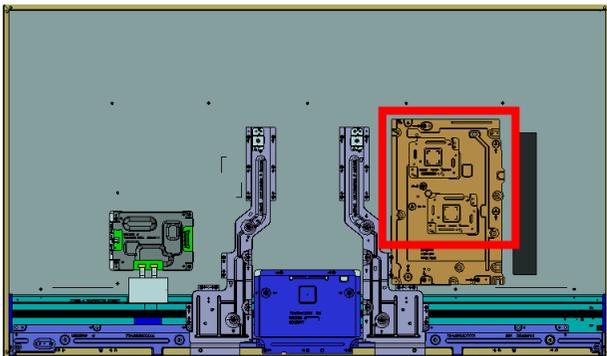


3

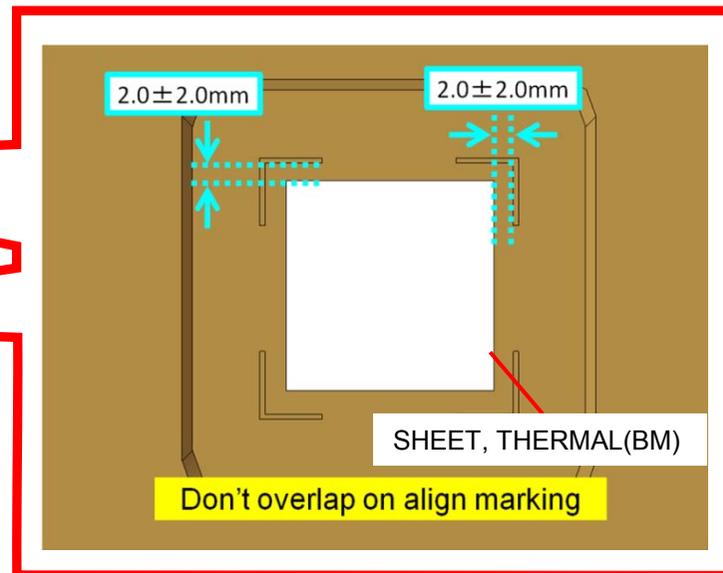
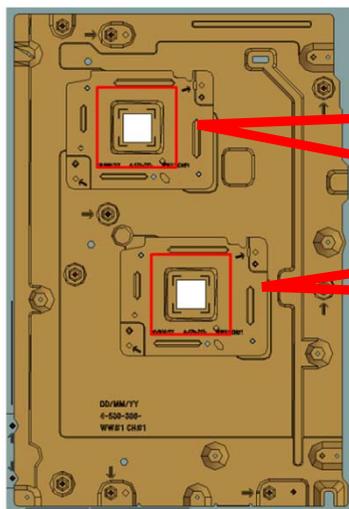
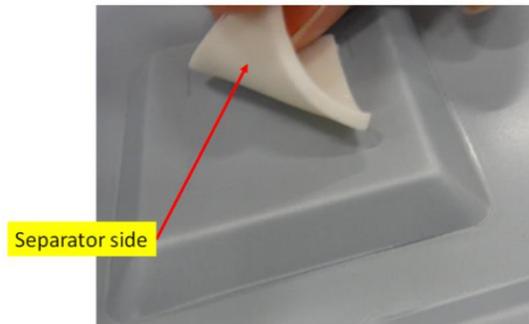


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-24. SHEET, THERMAL(BM)

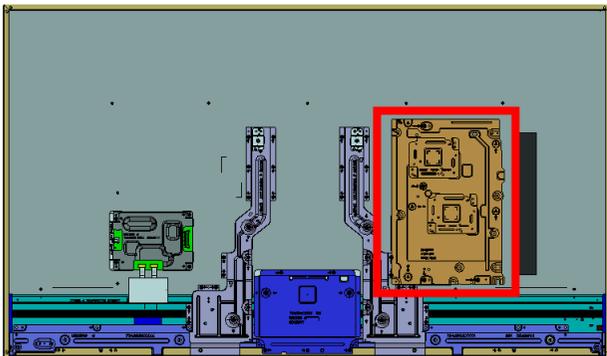


Be careful the side of SHEET THERMAL.

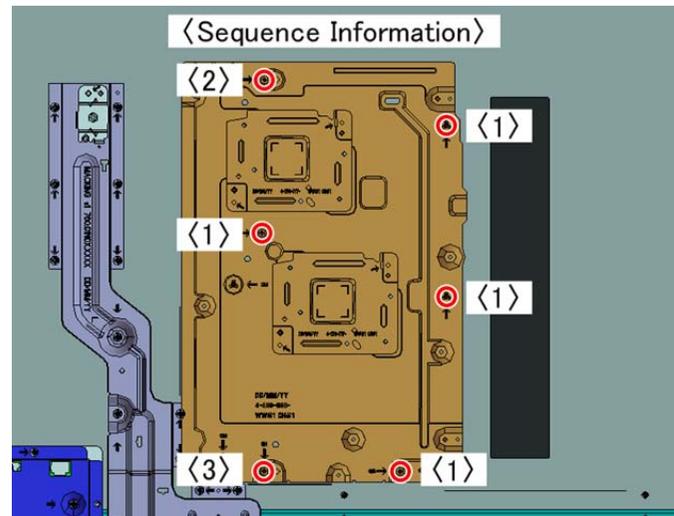


1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-25. PLATE, MAIN(PDT M1)

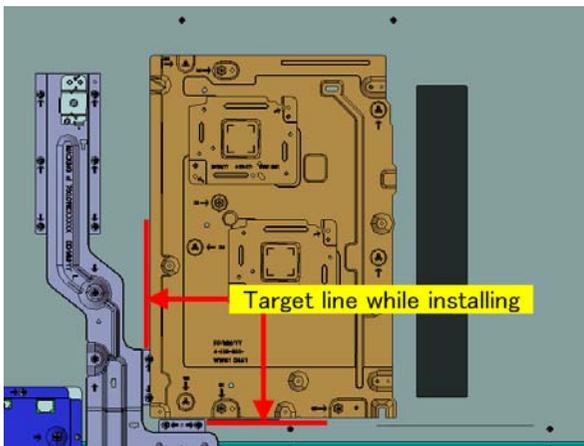


1

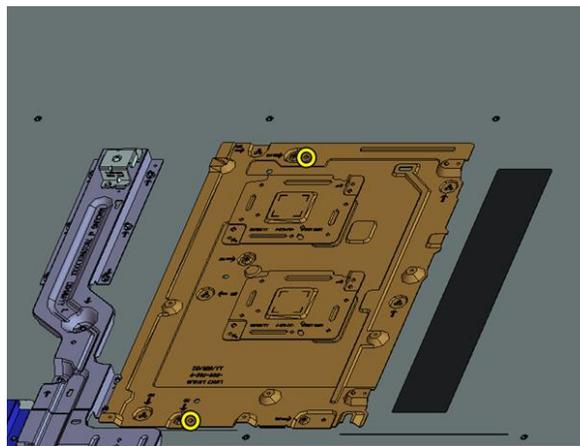


6 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

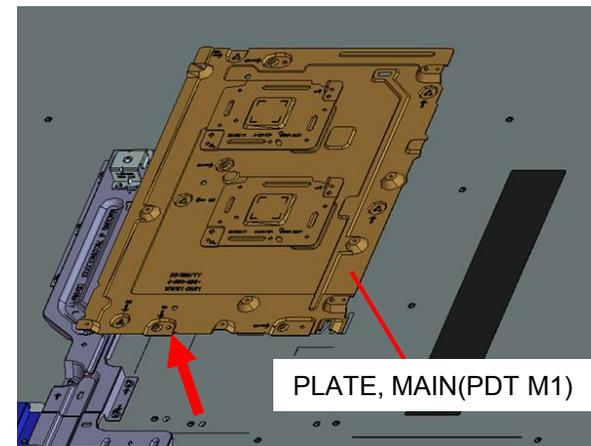
2



3

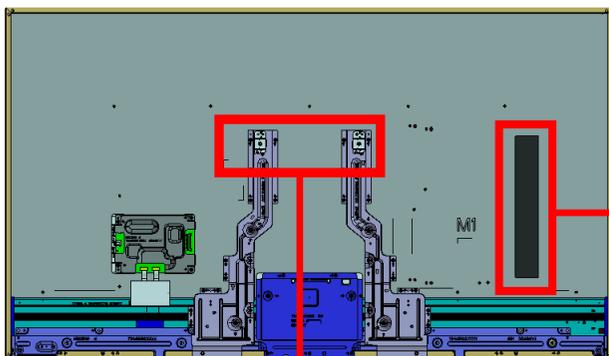


4



1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-26. LABEL, SIDE TERMINAL (PDT M1) AND BRACKET, VESA (MIA)



When you do panel replacement, please also replace this part at the same time to a new one.

LABEL, SIDE TERMINAL (PDT M1)

Align the label to the marking,
① corner edge
② left side line

To prevent bubbles from entering,
Please stroked the label from the top side to bottom side.

Caution: Don't damage to LABEL. Scratch, deform, dirty etc....

1

2

3

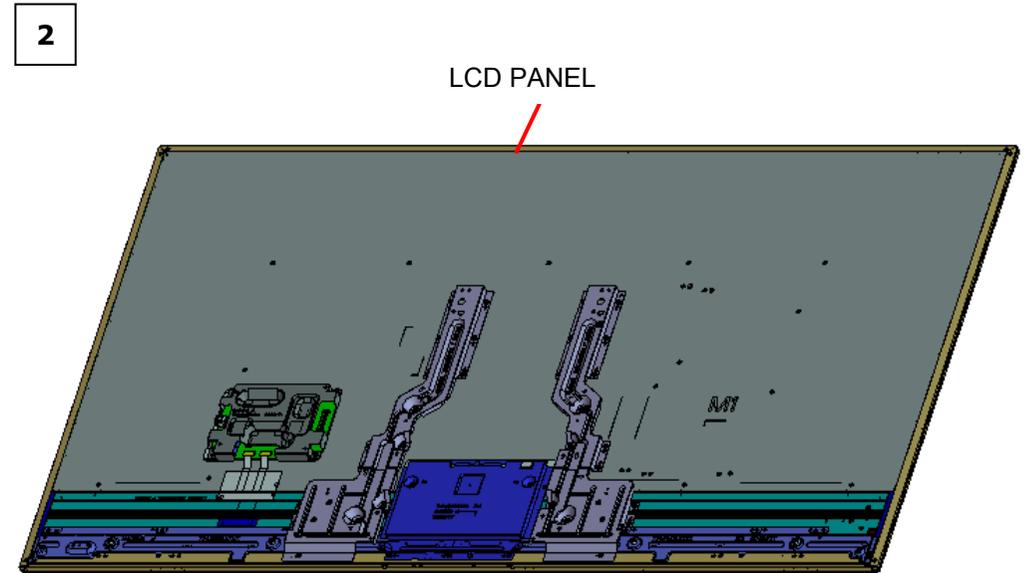
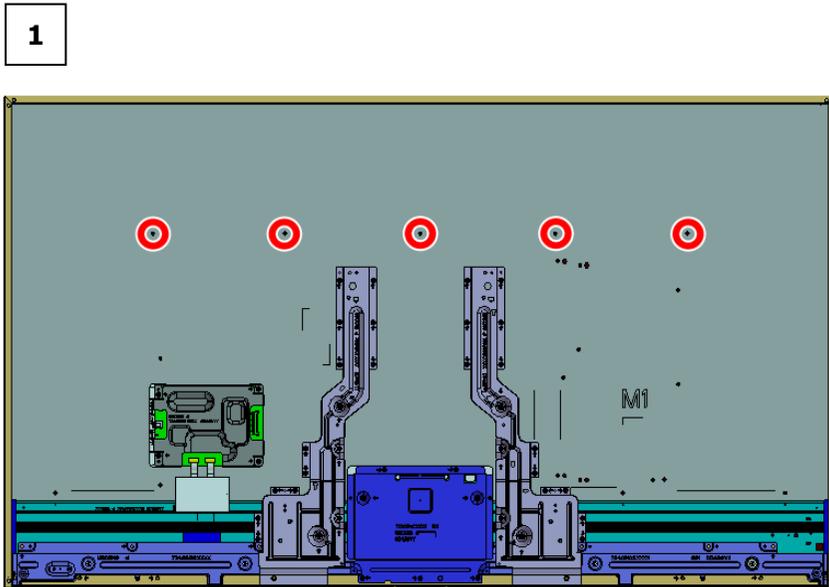
4

BRACKET, VESA (MIA)

○ 2 screws (SCREW, +PSW M4X10) P/N: 4-159-298-01

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

1-27. SCREW AND LCD PANEL

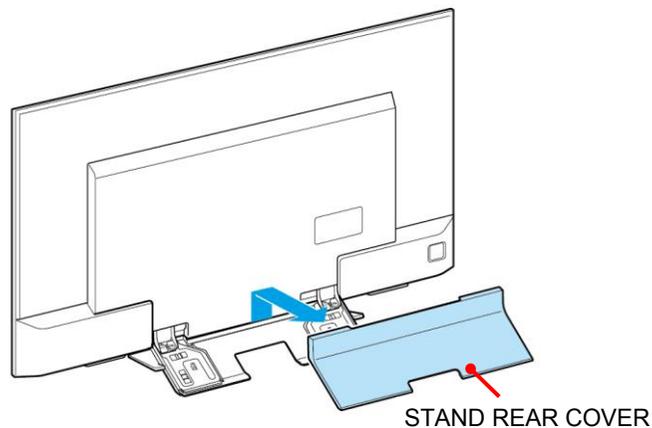


○ 5 screws (SCREW M3X3.0 STEP) P/N: 4-579-926-01

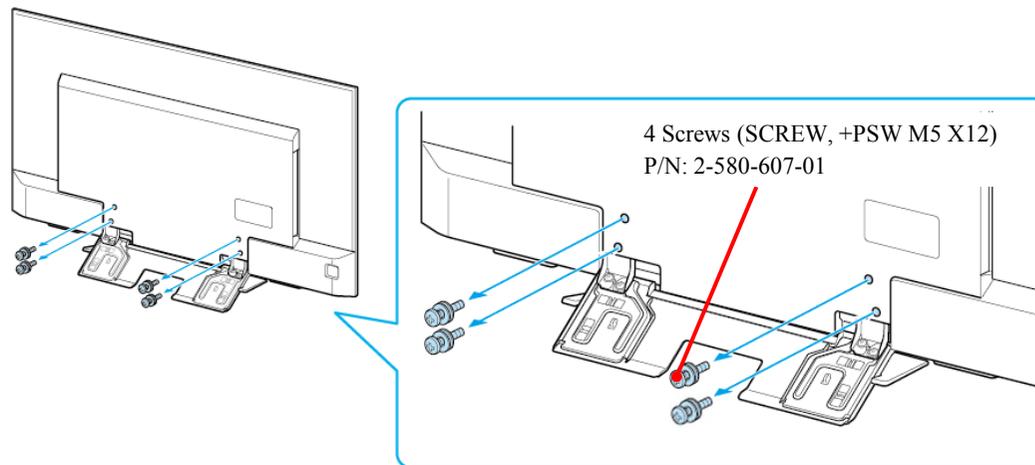
2. KD-65XD8505/8577/8599, FW-65XD8501

2-1. STAND

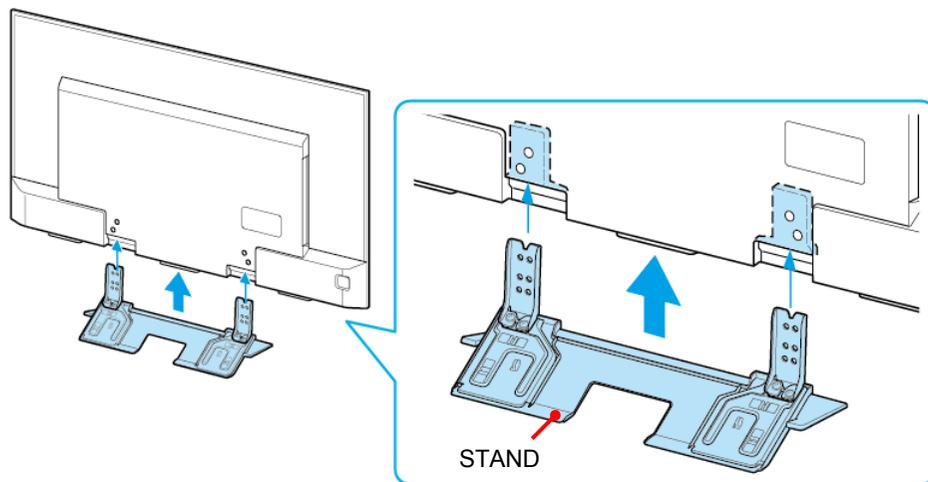
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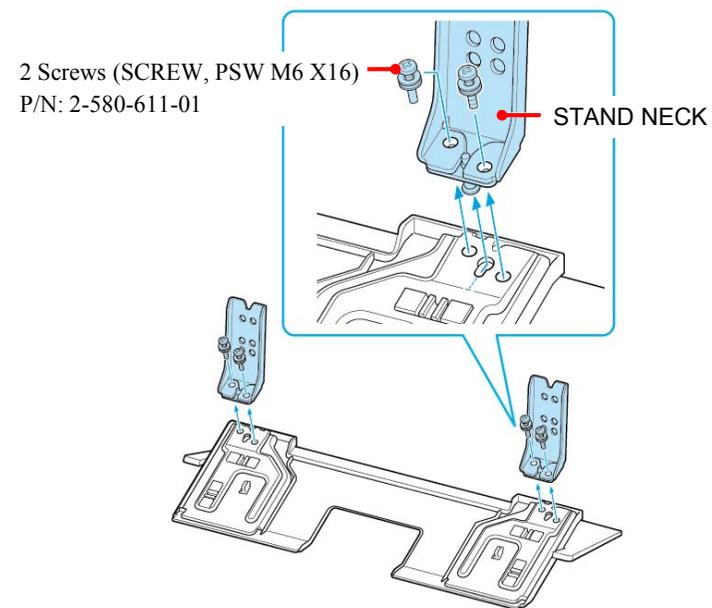
2



3

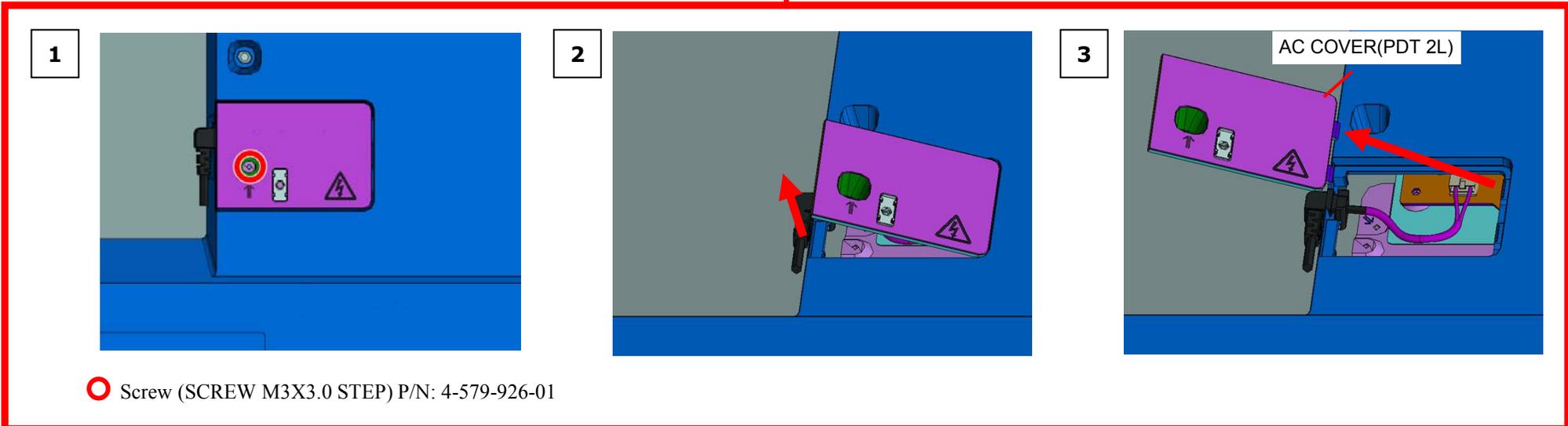
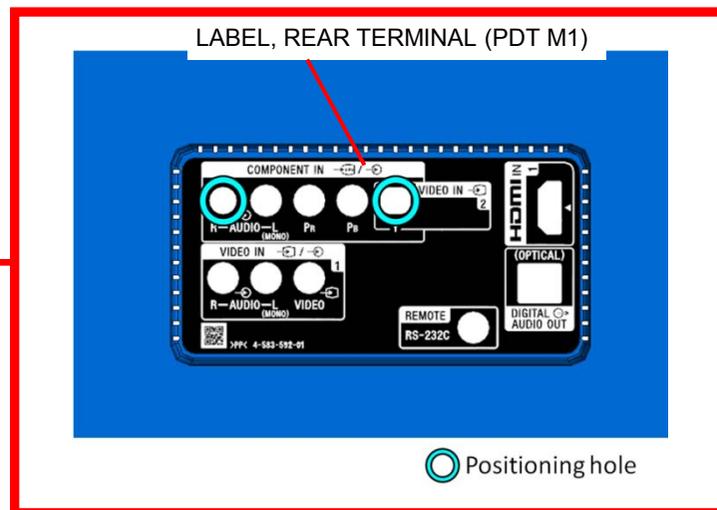
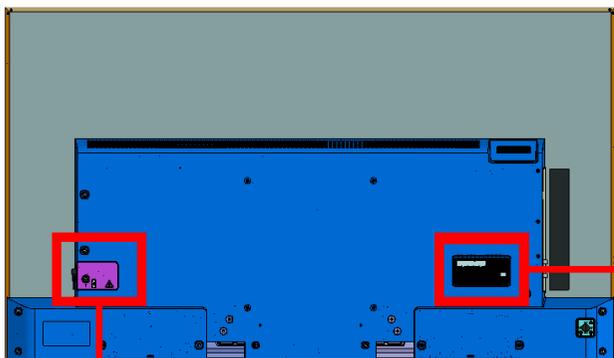


4



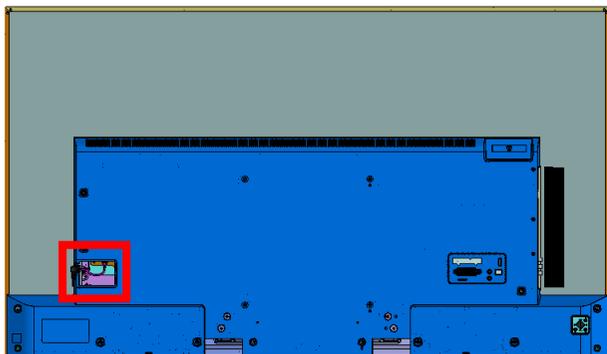
2. KD-65XD8505/8577/8599, FW-65XD8501

2-2. LABEL, REAR TERMINAL (PDT M1) AND AC COVER(PDT 2L)

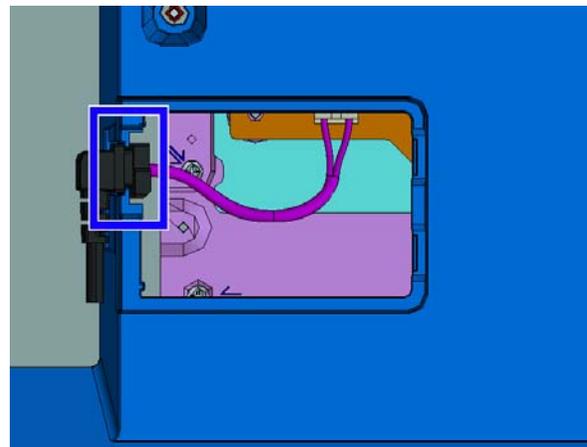


2. KD-65XD8505/8577/8599, FW-65XD8501

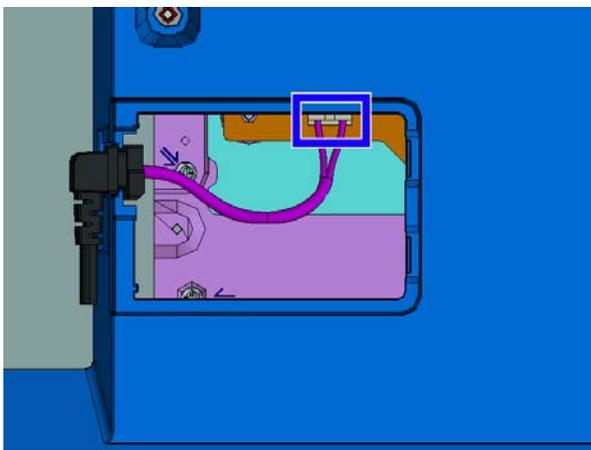
2-3. POWER-SUPPLY CORD



1



2



3

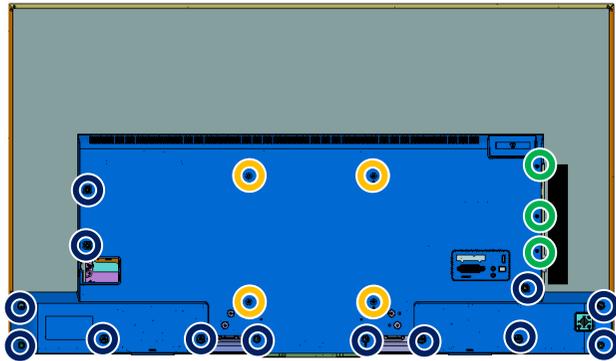
POWER-SUPPLY CORD (WITH CONN.)
P/N: 1-839-667-21 (UKA)
1-839-691-21 (CEI/RU3)



2. KD-65XD8505/8577/8599, FW-65XD8501

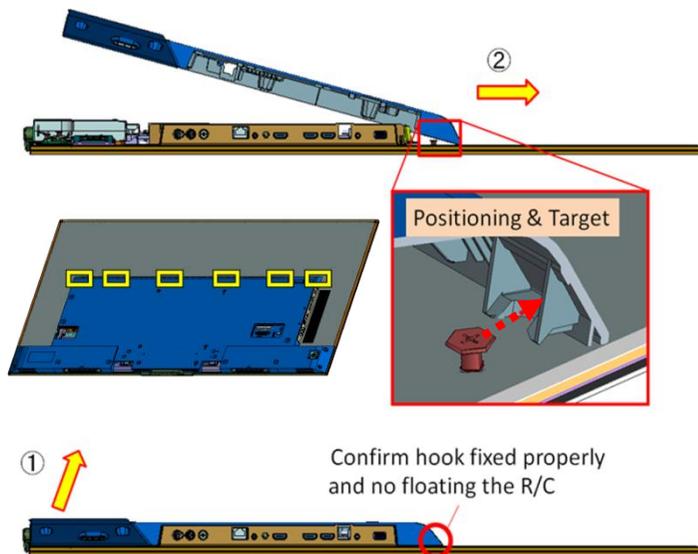
2-4. REAR COVER (M1_2L_PDT) A

1

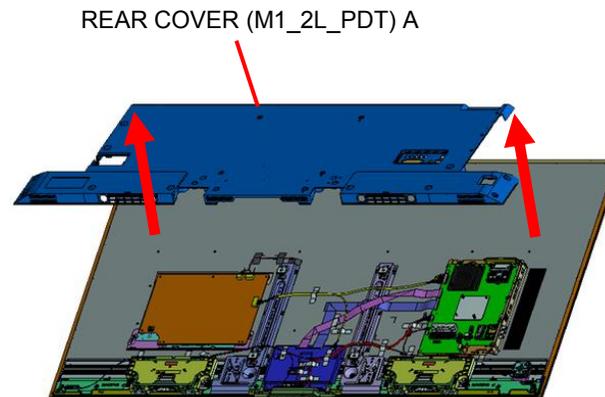


- 4 screws (SCREW, ORNAMENTAL M6X12) P/N: 4-268-126-02
- 3 screws (SCREW +BVTP 3X10 TYPE2 IT-3) P/N: 7-685-647-79
- 13 screws (SCREW M3X3.0 STEP) P/N: 4-579-926-01

2



3



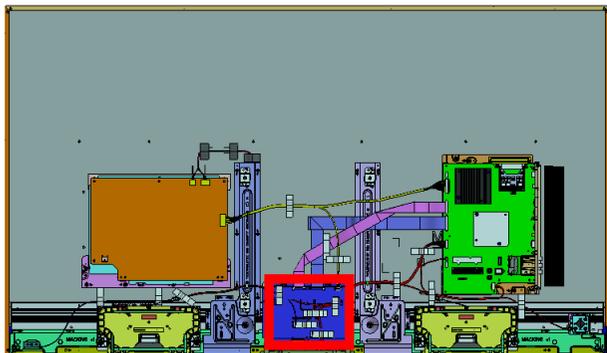
Handling guidance for while Assy R/C.



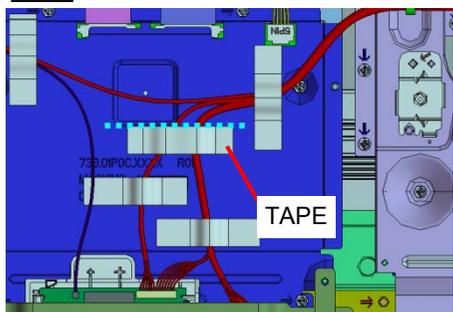
If you are going to ignore the handling prohibition area and assemble RC, when holding a middle portion, that curves then hooks will not be easily caught. And when holding SP grille portion, you will touch a speaker cone. On the other hand, when disassembling RC, you can ignore the handling prohibition area. Please refer to Appendix-1.

2. KD-65XD8505/8577/8599, FW-65XD8501

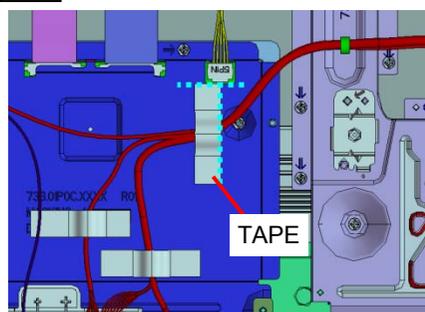
2-5. TAPE



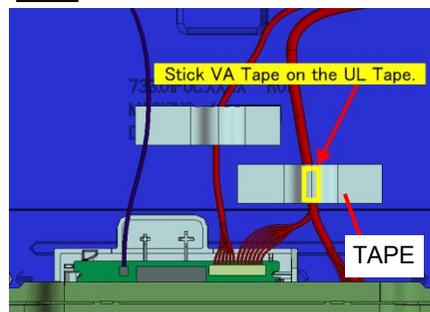
1



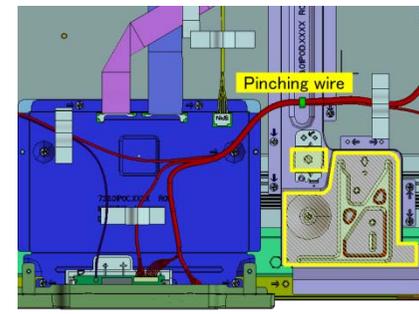
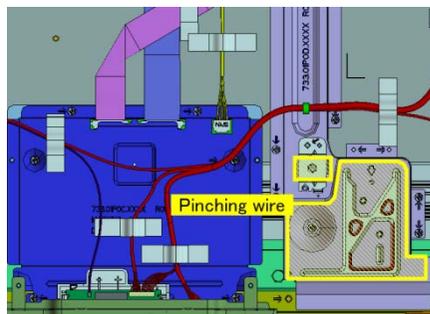
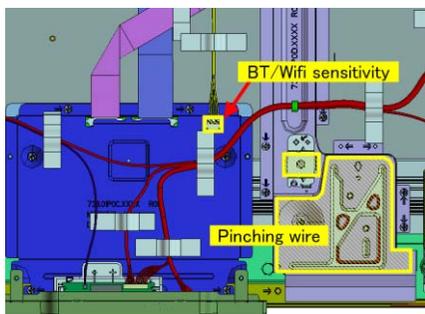
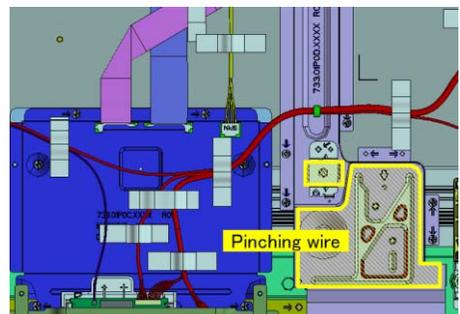
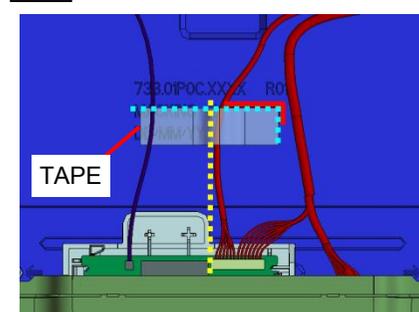
2



3

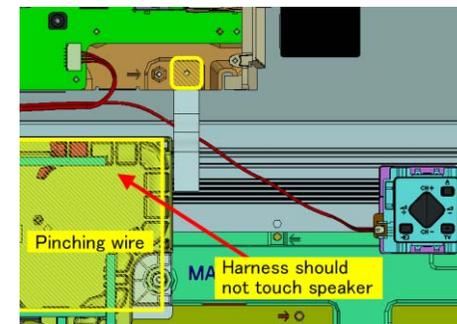
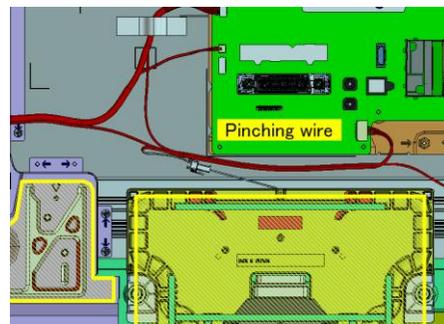
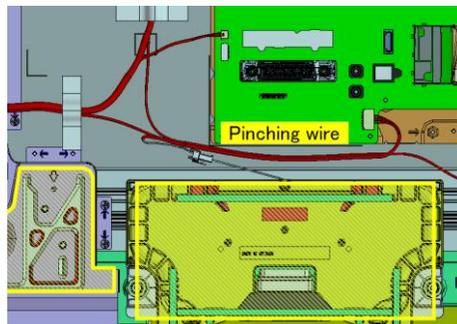
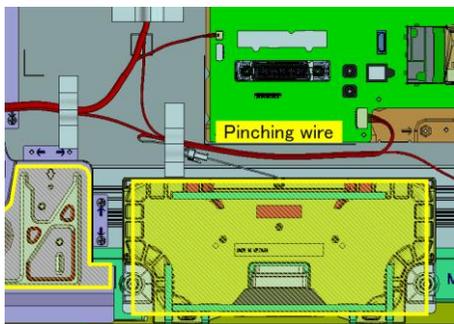
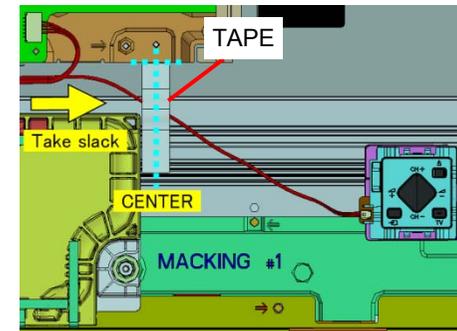
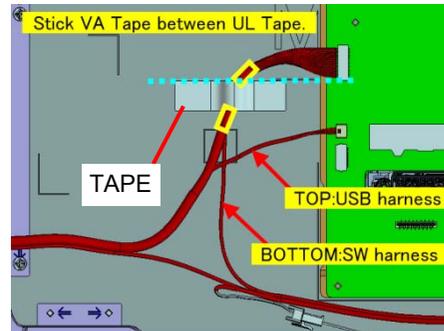
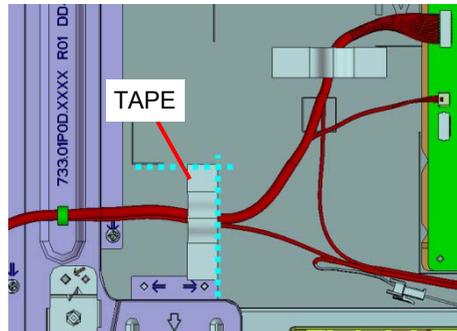
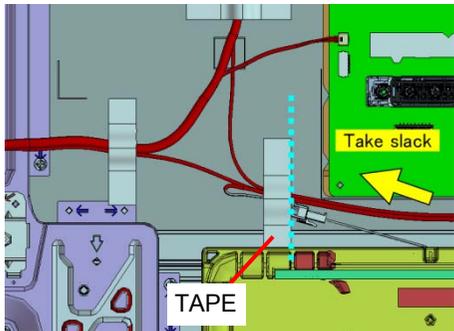
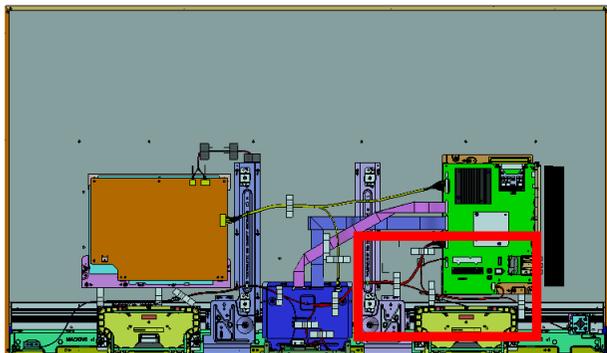


4



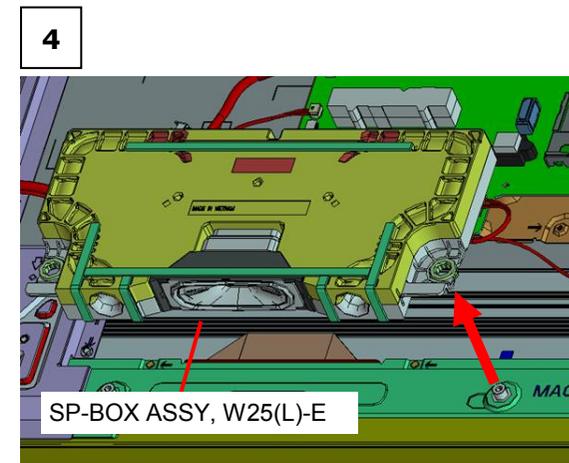
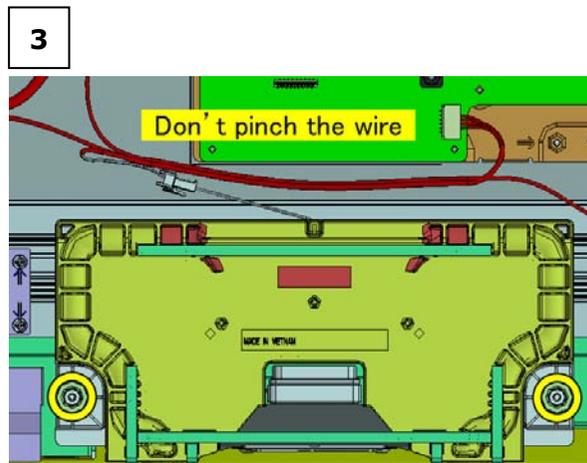
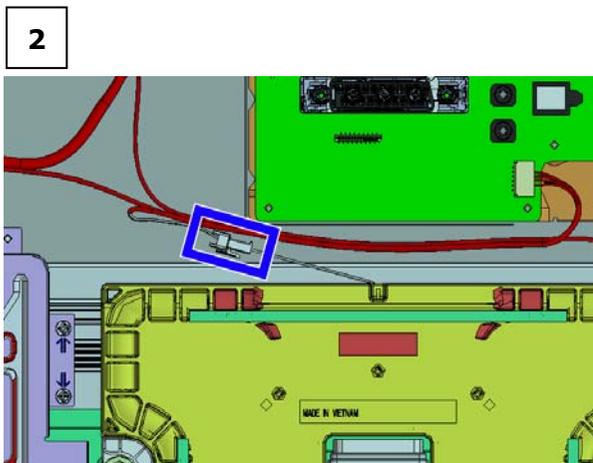
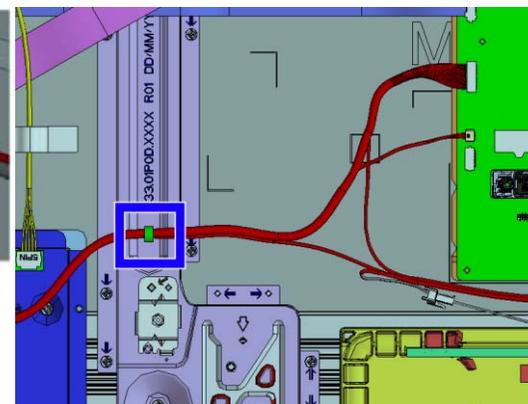
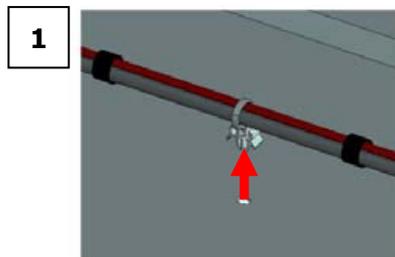
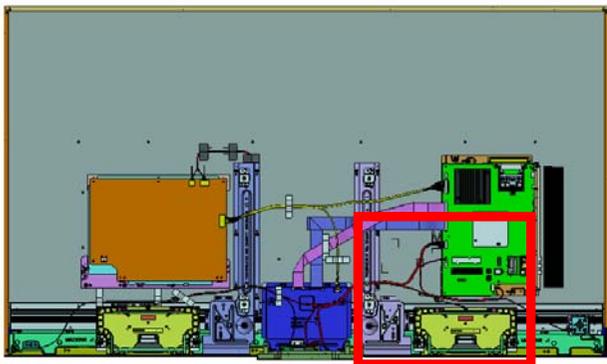
2. KD-65XD8505/8577/8599, FW-65XD8501

2-6. TAPE



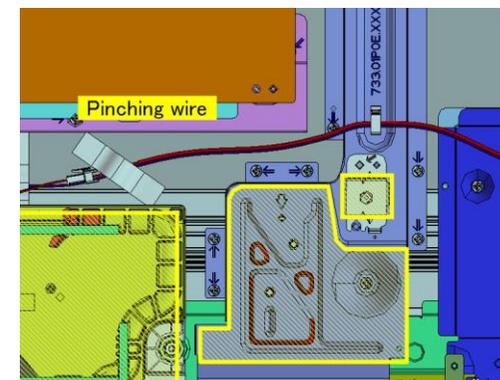
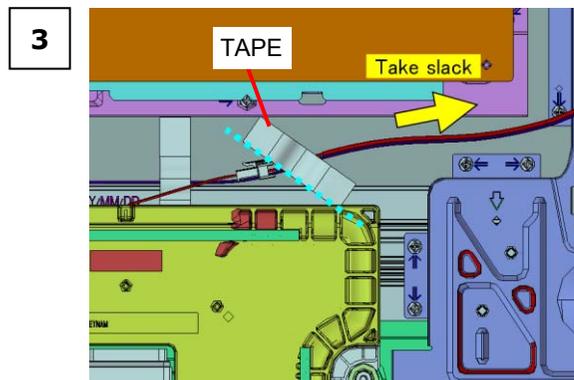
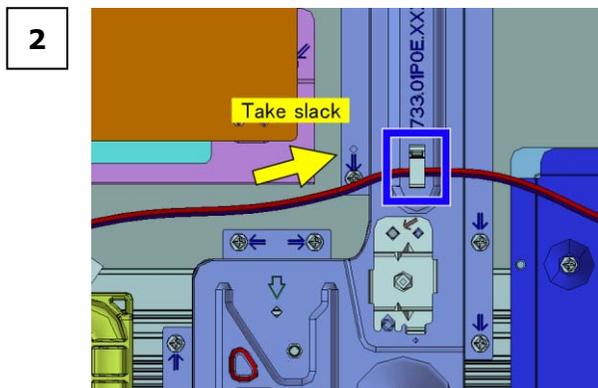
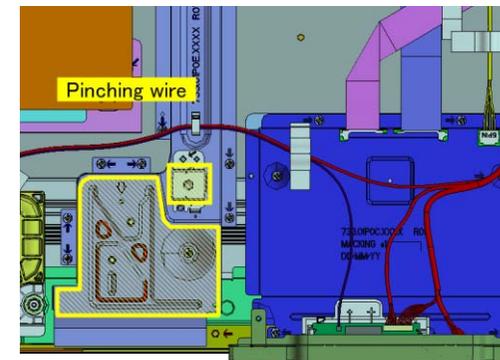
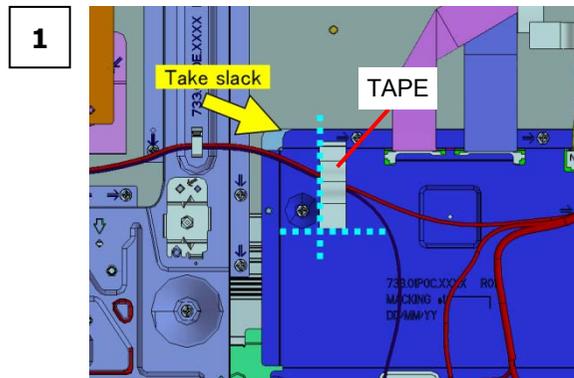
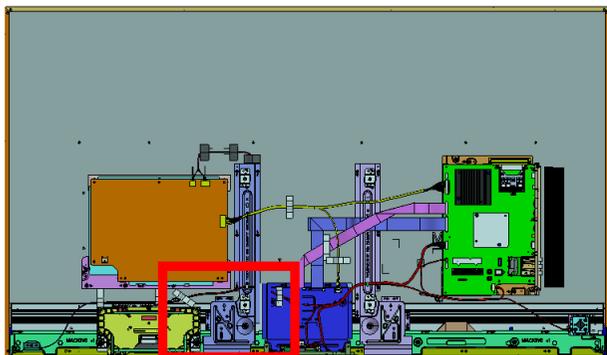
2. KD-65XD8505/8577/8599, FW-65XD8501

2-7. WIRE DRESSING AND SP-BOX ASSY, W25(L)-E



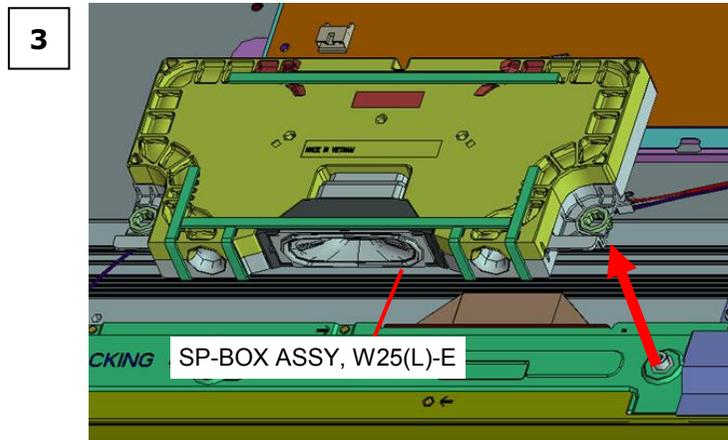
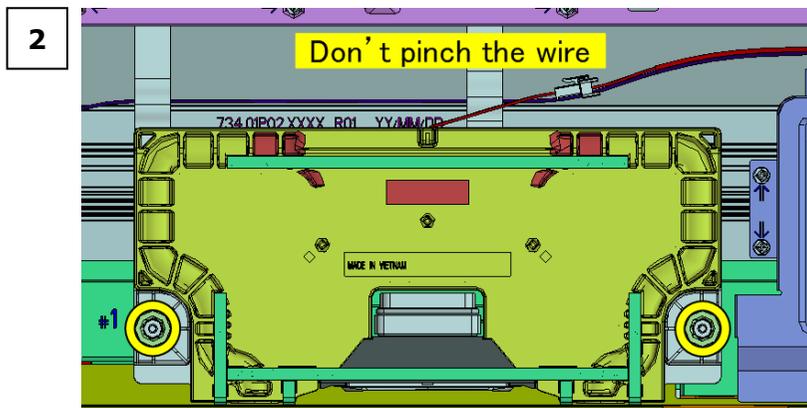
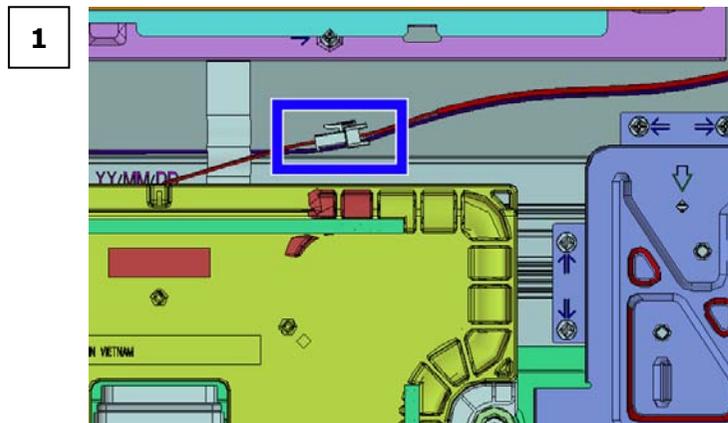
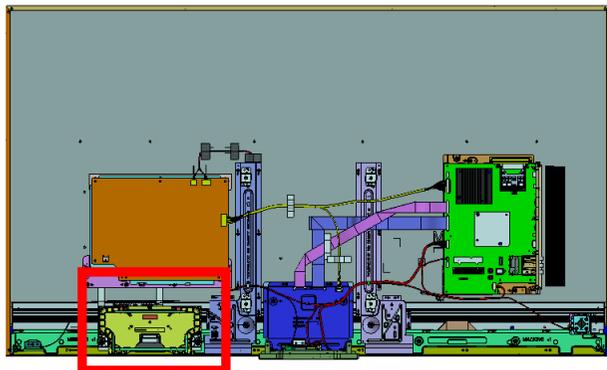
2. KD-65XD8505/8577/8599, FW-65XD8501

2-8. TAPE AND WIRE DRESSING



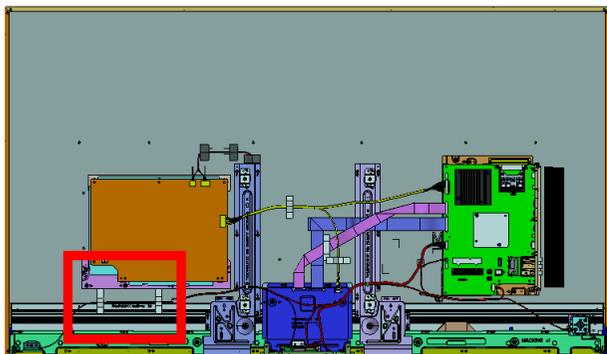
2. KD-65XD8505/8577/8599, FW-65XD8501

2-9. SP-BOX ASSY, W25(L)-E

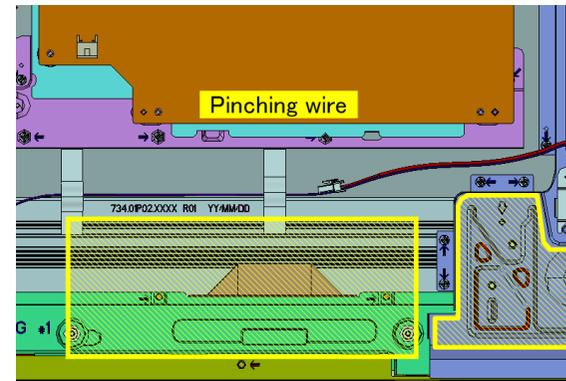
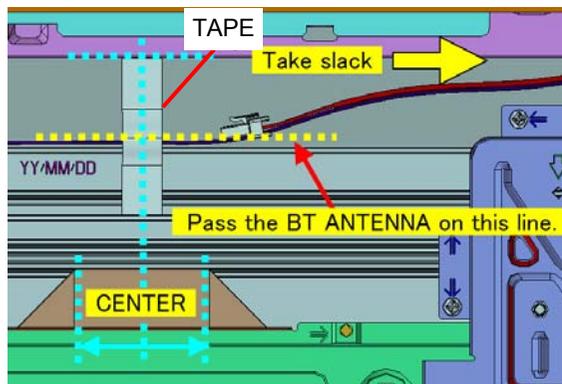


2. KD-65XD8505/8577/8599, FW-65XD8501

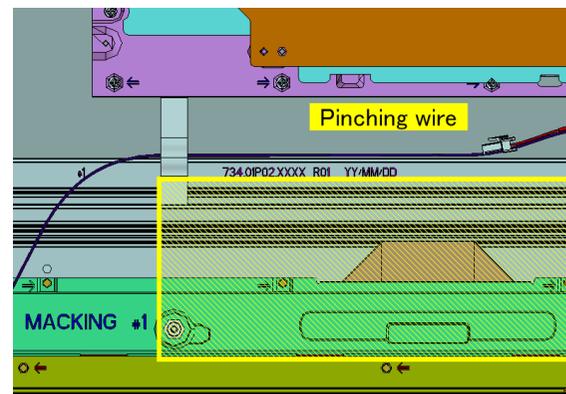
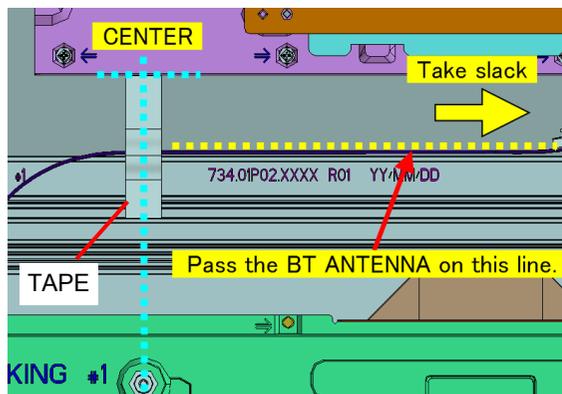
2-10. TAPE



1

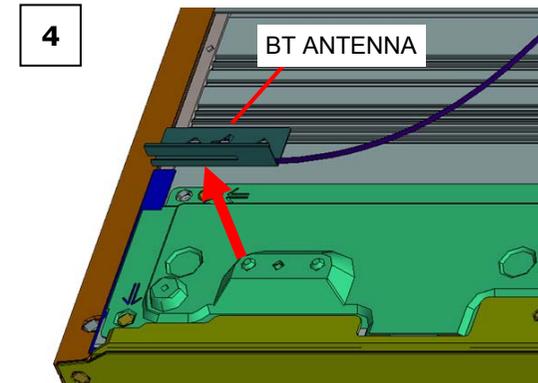
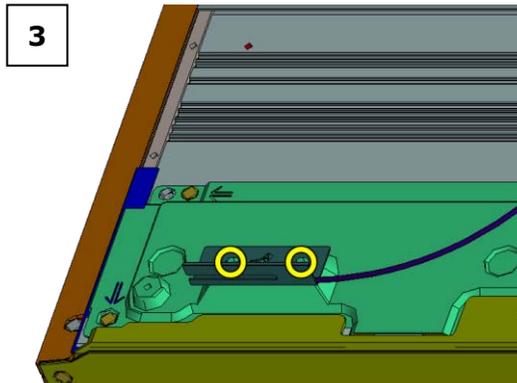
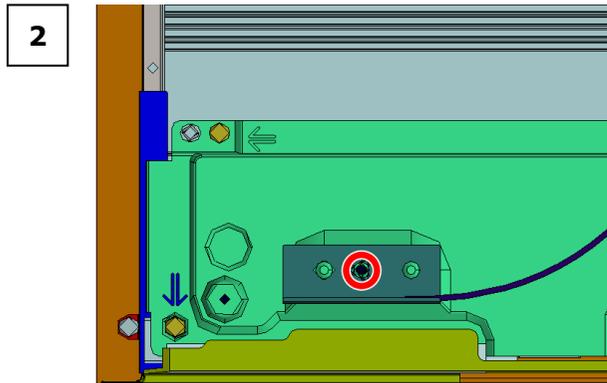
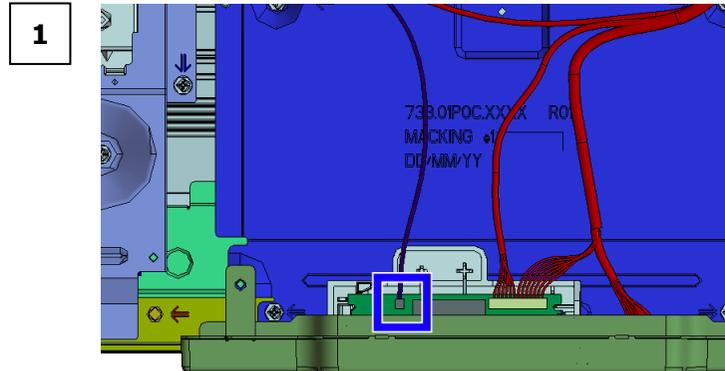
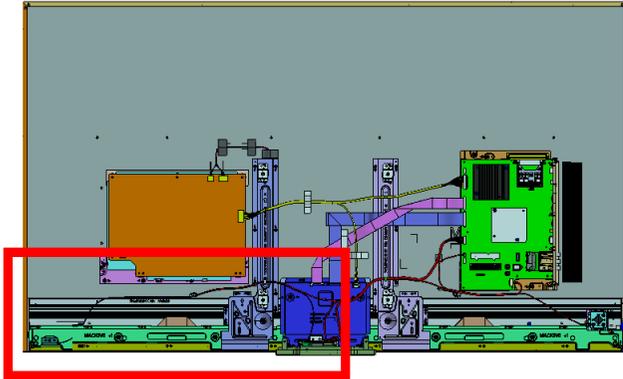


2



2. KD-65XD8505/8577/8599, FW-65XD8501

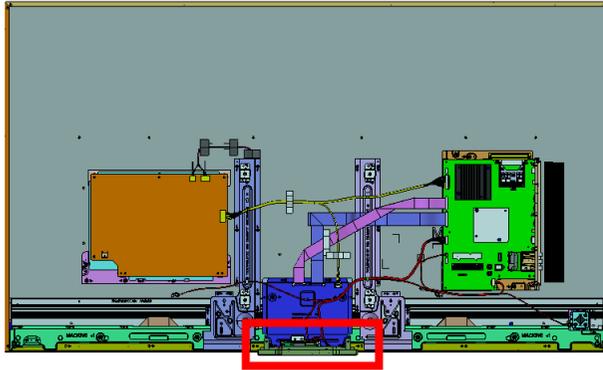
2-11. BT ANTENNA



⊙ Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11

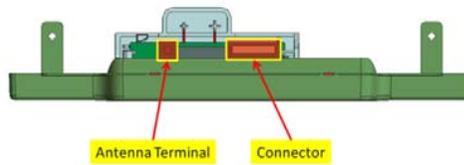
2. KD-65XD8505/8577/8599, FW-65XD8501

2-12. SMART CORE (S)

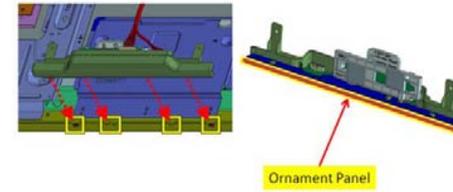


NOTE:

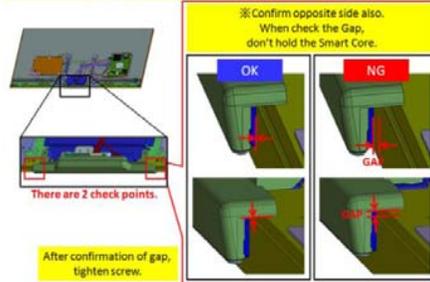
Don't touch these components while installing.



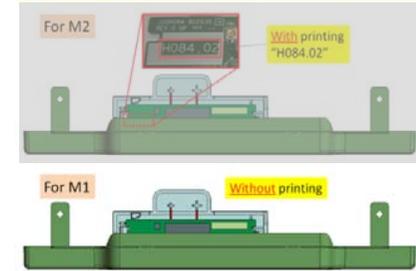
Don't scratch O/P with Bezel while installing.



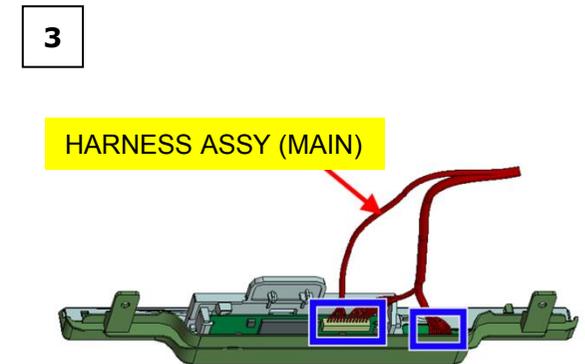
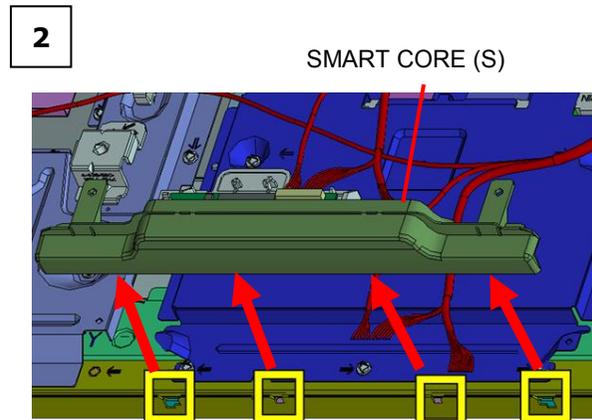
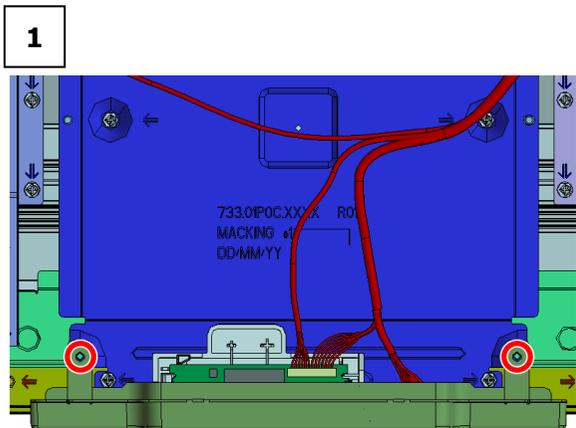
Confirm Smart Core is assembled properly before tightening screw of Smart Core.



How to distinguish SC for M1 and M2



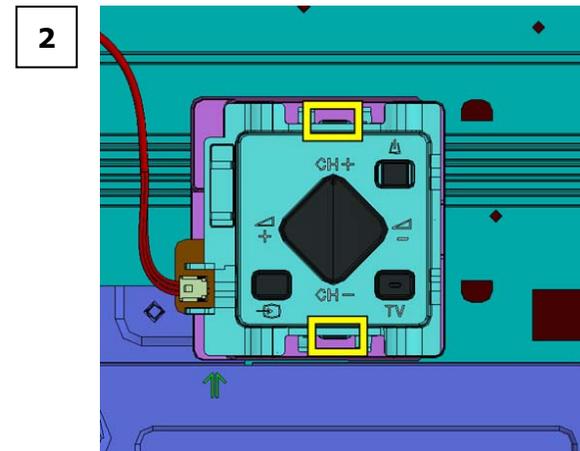
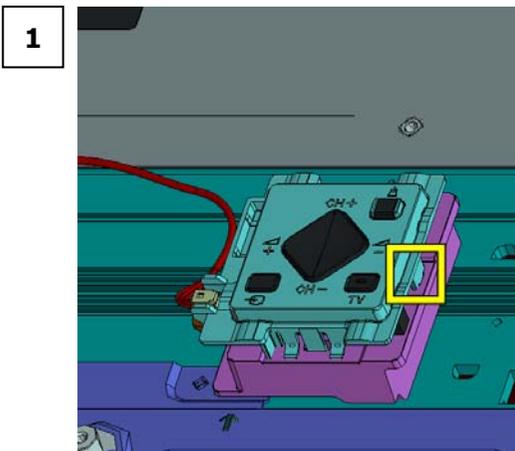
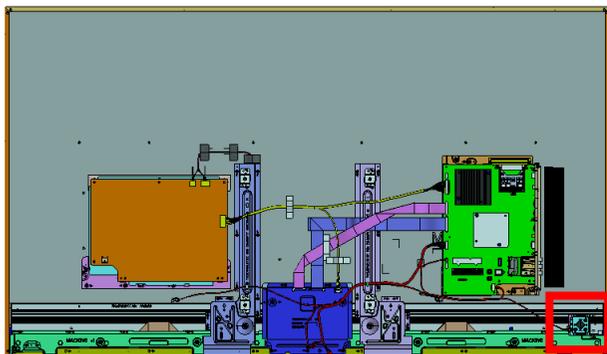
For This Model



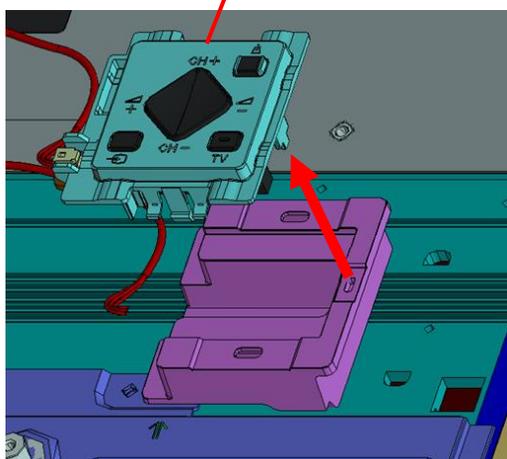
2 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2. KD-65XD8505/8577/8599, FW-65XD8501

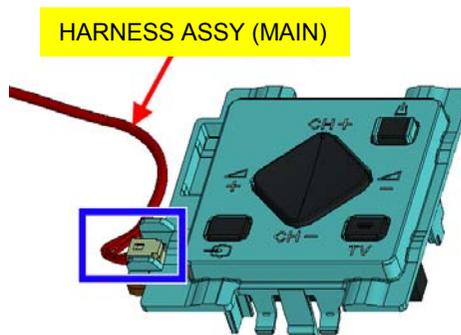
2-13. SWITCH UNIT (SM-G-WW) AND HARNESS ASSY (MAIN)



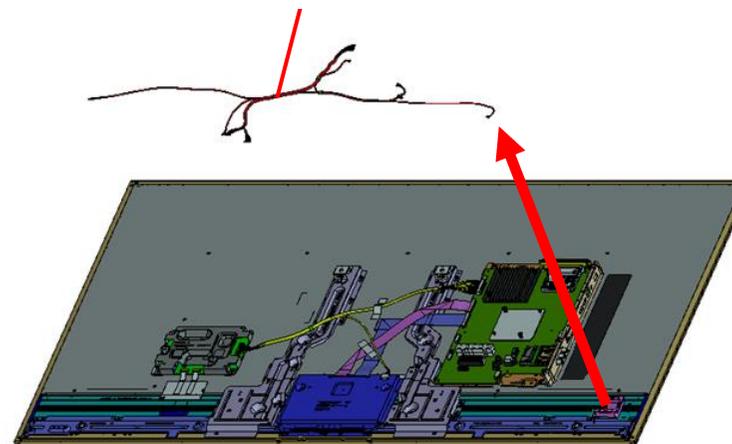
3 SWITCH UNIT (SM-G-WW)



4 HARNESS ASSY (MAIN)

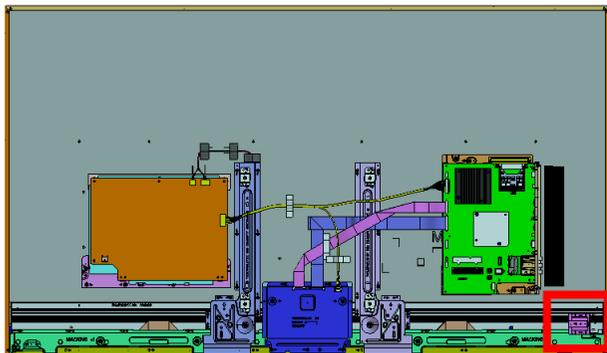


5 HARNESS ASSY (MAIN)
P/N: 1-910-110-93

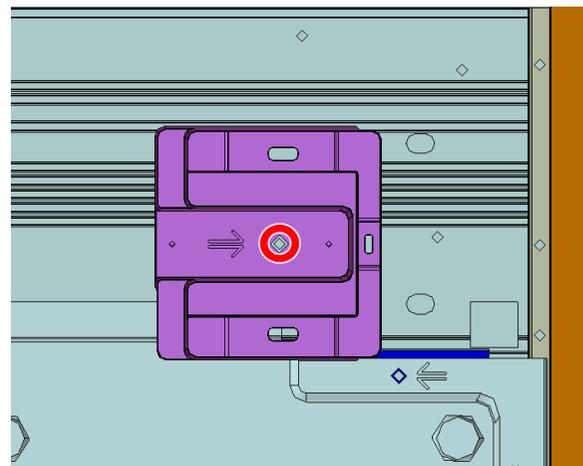


2. KD-65XD8505/8577/8599, FW-65XD8501

2-14. HOLDER SIDE SW(PDT M1)

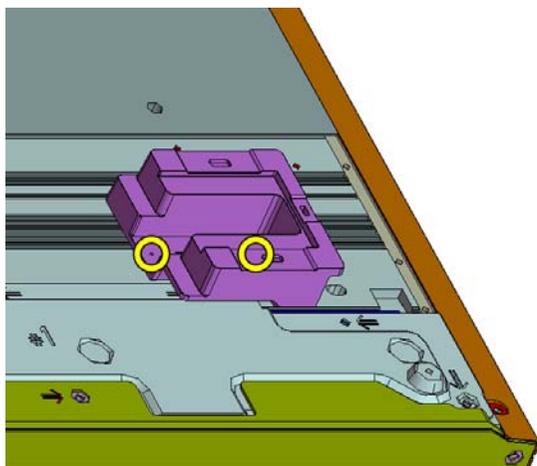


1

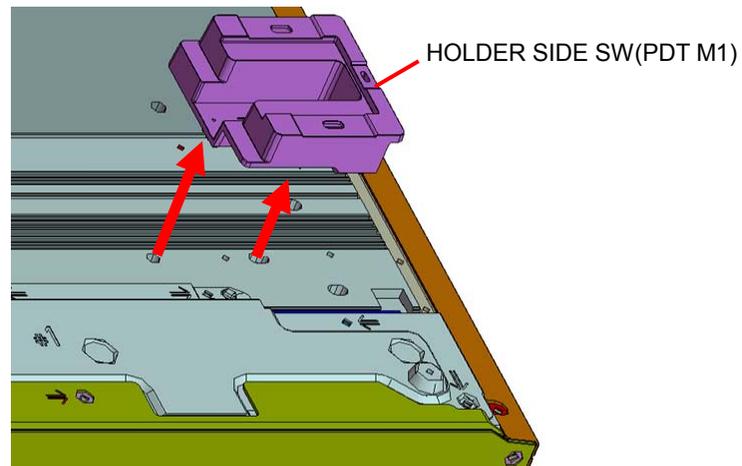


○ Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

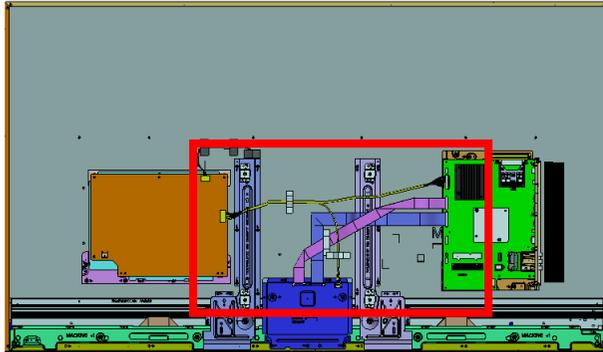


3

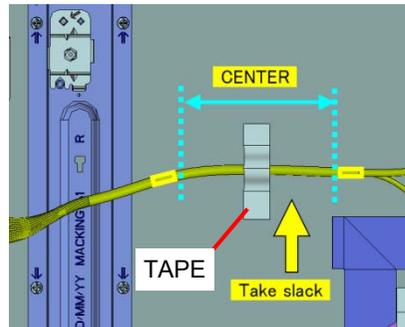


2. KD-65XD8505/8577/8599, FW-65XD8501

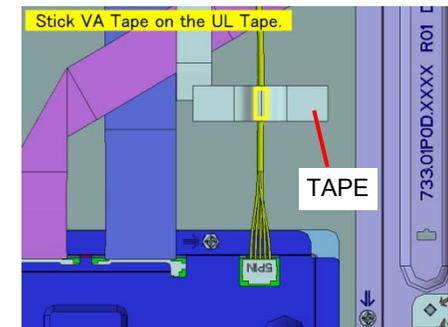
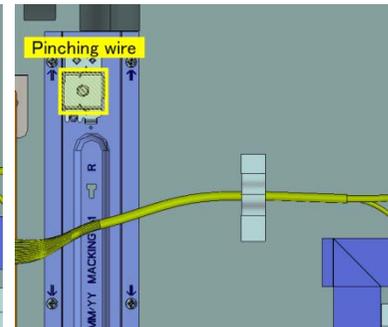
2-15. TAPE AND WIRE DRESSING AND CONNECTOR ASSY 28P



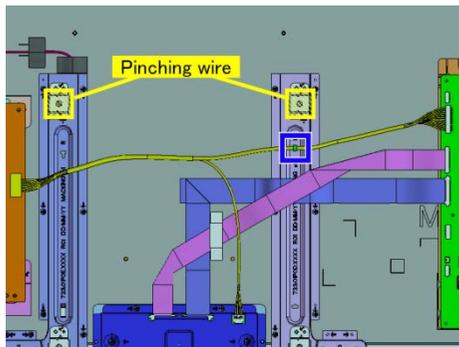
1



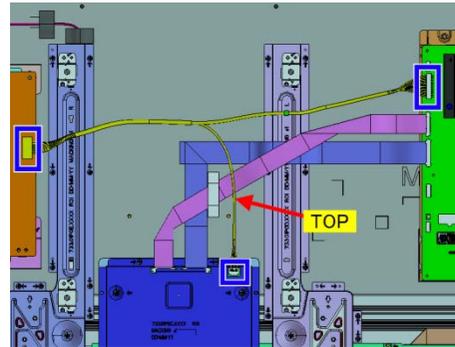
2



3

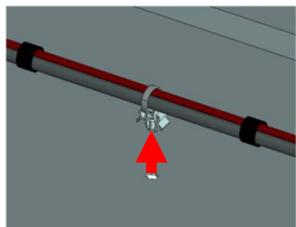
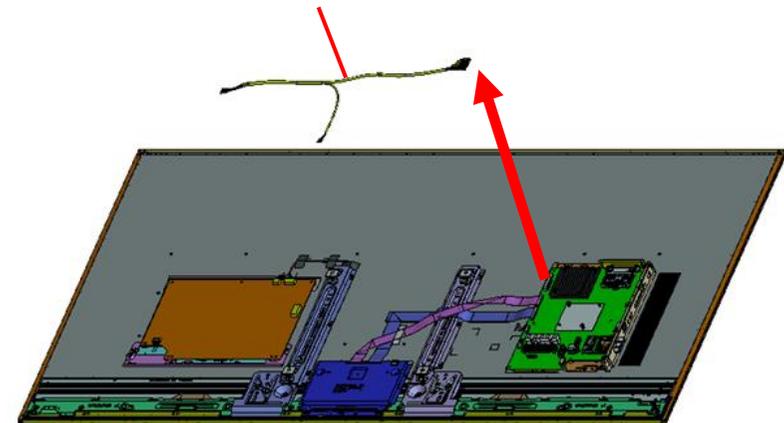


4



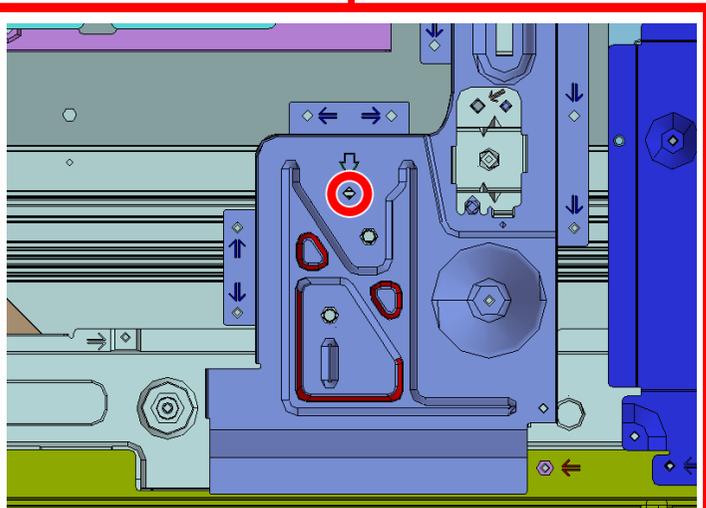
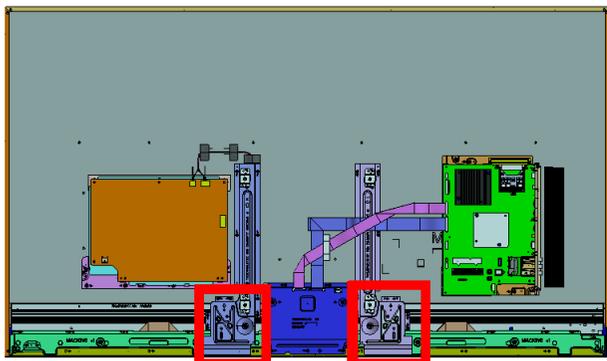
5

CONNECTOR ASSY 28P
P/N: 1-910-110-94

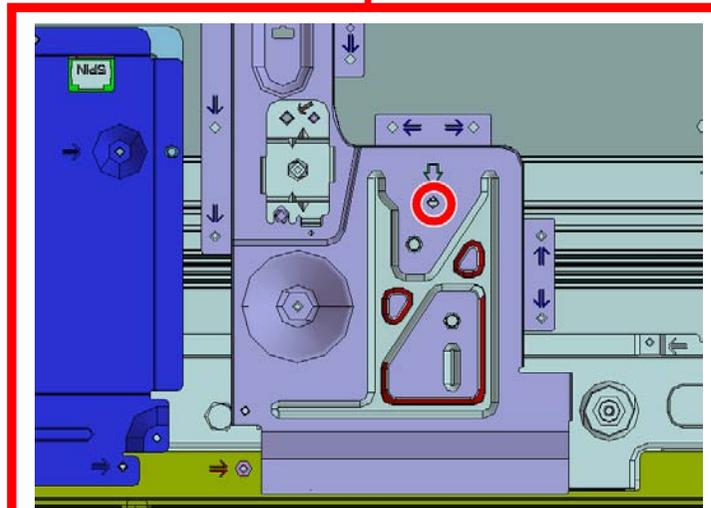


2. KD-65XD8505/8577/8599, FW-65XD8501

2-16. PULLEY, STAND (HWI)



○ PULLEY, STAND (HWI) P/N: 4-534-964-01

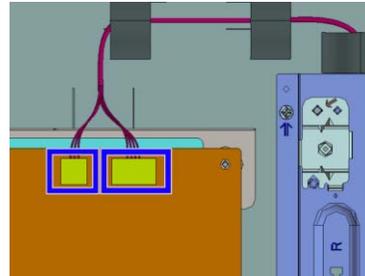
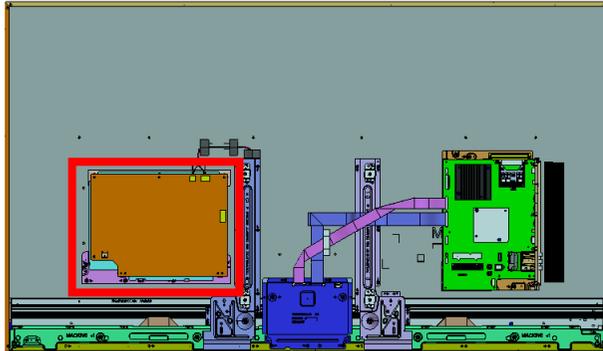


○ PULLEY, STAND (HWI) P/N: 4-534-964-01

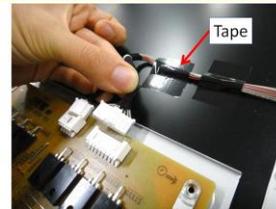
2. KD-65XD8505/8577/8599, FW-65XD8501

2-17. GL1 AND SPACER(17)+C

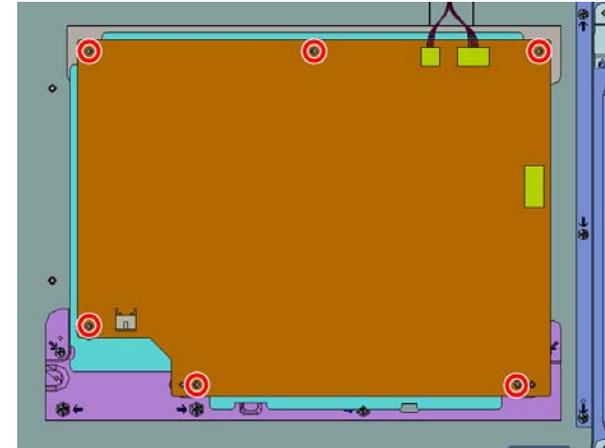
1



Don't strongly pull the harness while connecting.
*If tape is peeled off, it is NG.

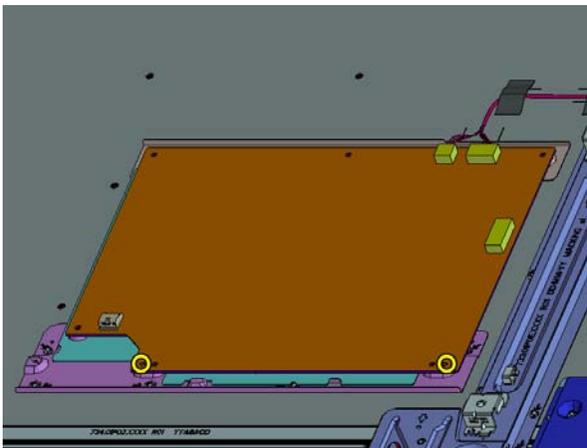


2

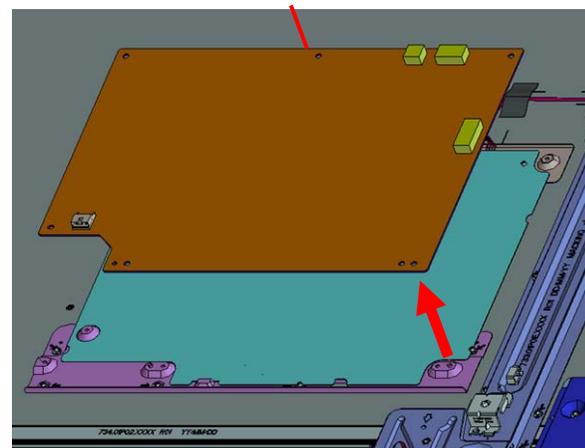


6 screws (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

3

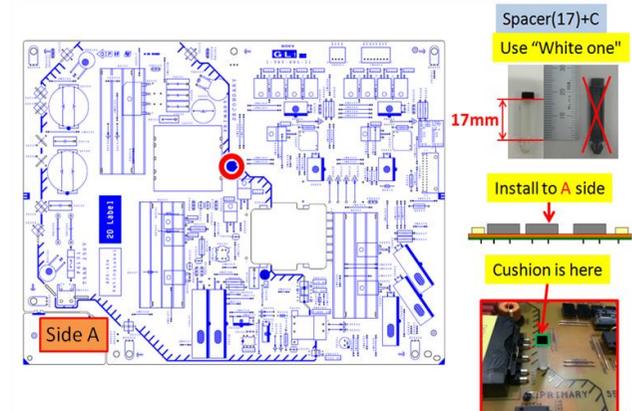


4



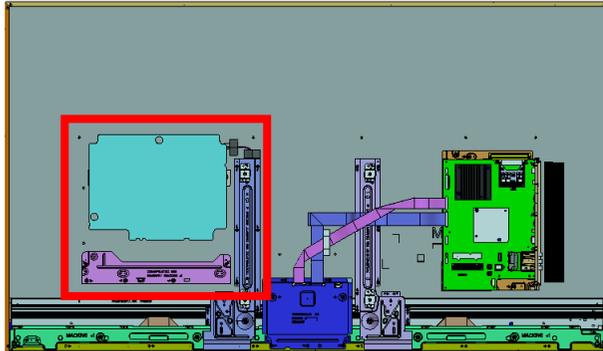
5

Remove "Spacer(17)+C" at hole Number "1".

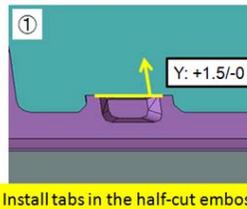
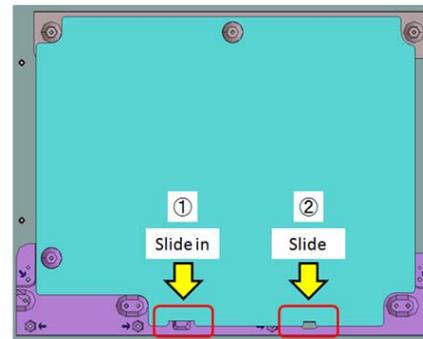


2. KD-65XD8505/8577/8599, FW-65XD8501

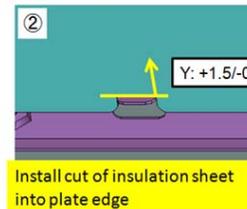
2-18. SHEET, INUSLATION (PDT 2L) AND CUSHION (PDT AC)



NOTE:

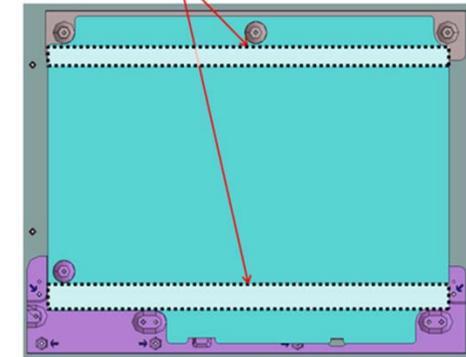


Install tabs in the half-cut emboss



Install cut of insulation sheet into plate edge

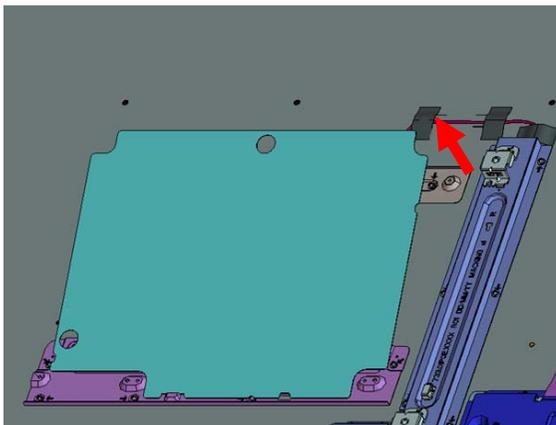
Adhesive tape area



Caution

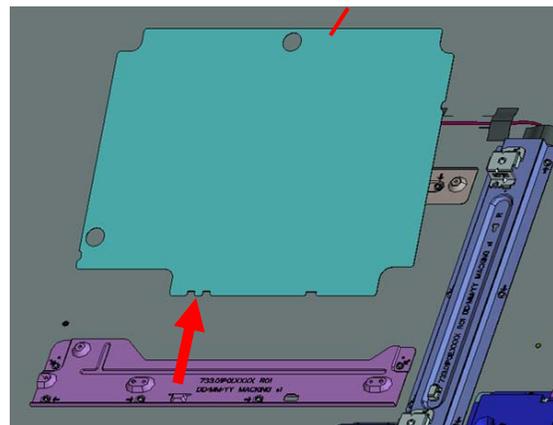
When handling,
 • Be sure not to touch adhesive tape area.
 After installing,
 • Be sure to push all of adhesive tape area to avoid peel off of "Sheet, Insulation".

1



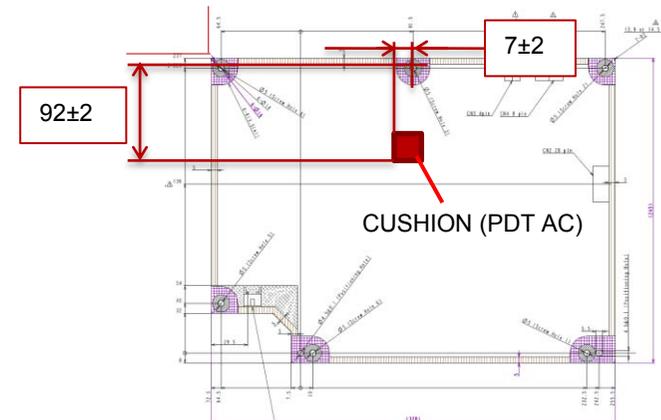
2

SHEET, INUSLATION (PDT 2L)



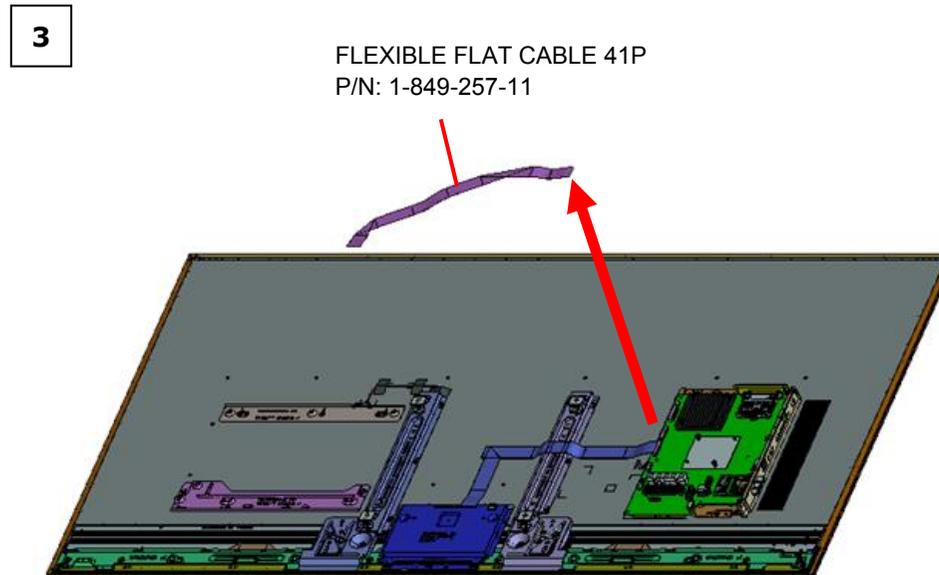
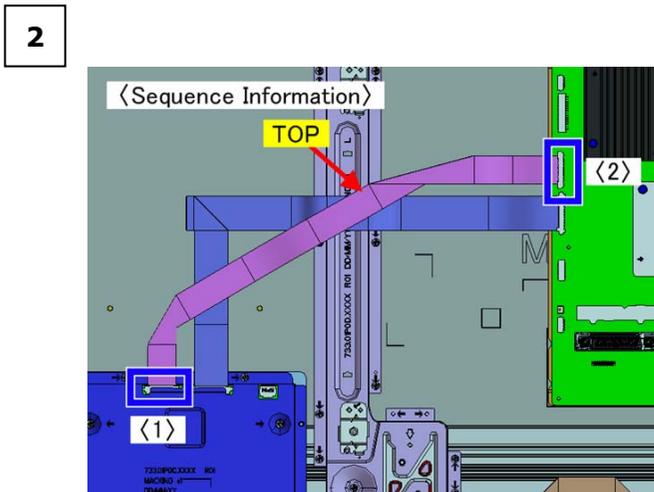
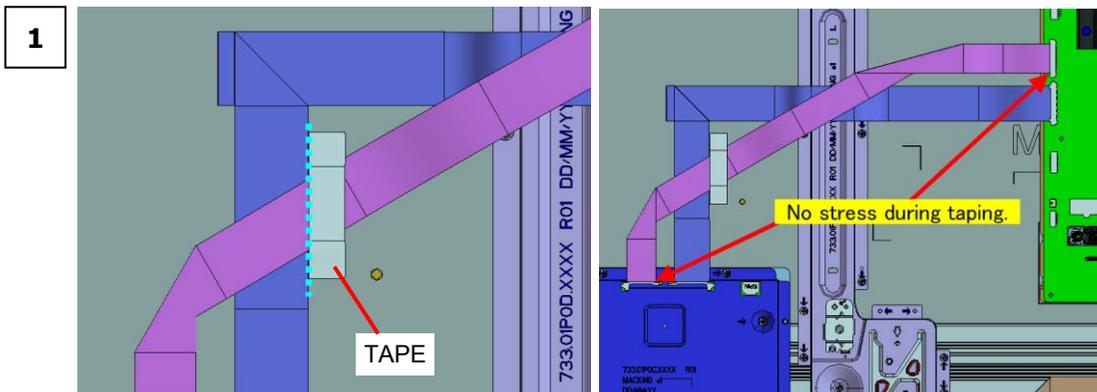
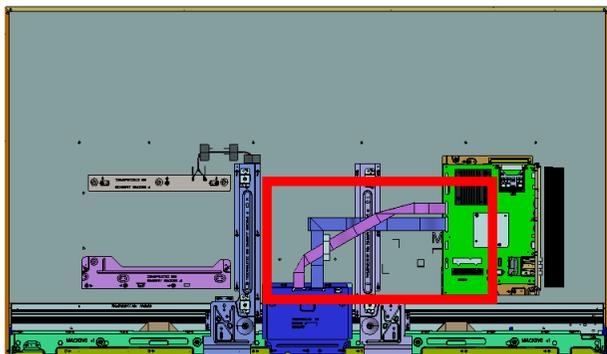
3

When you do panel replacement, please also replace this part at the same time to a new one.



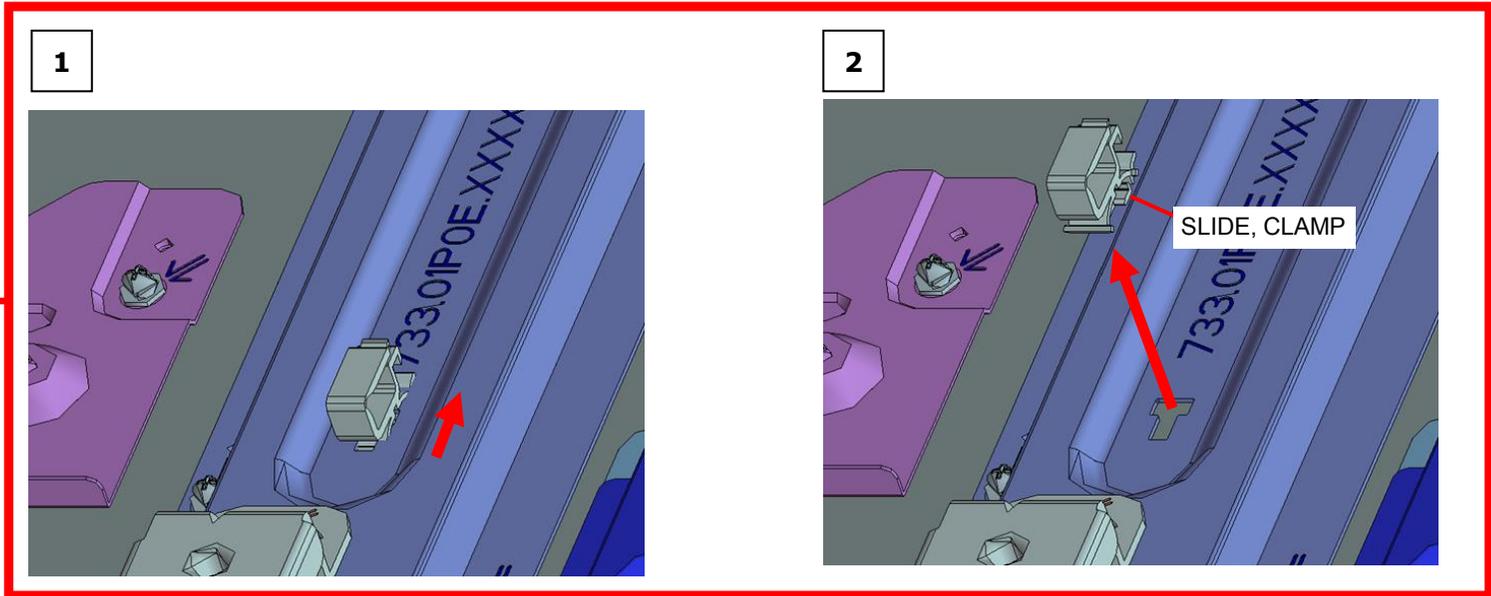
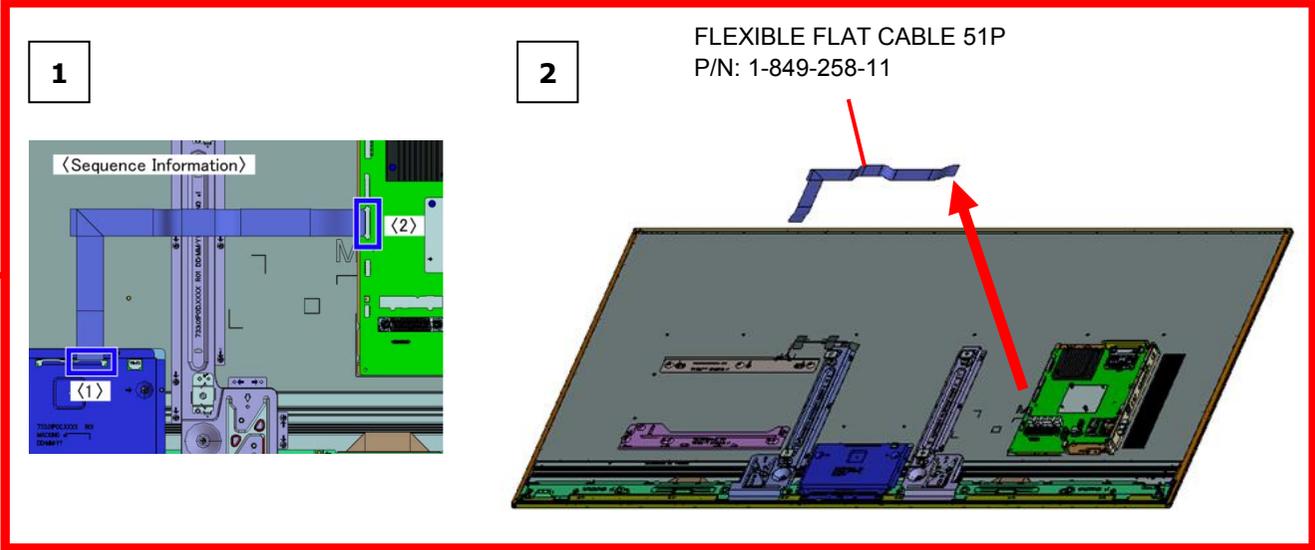
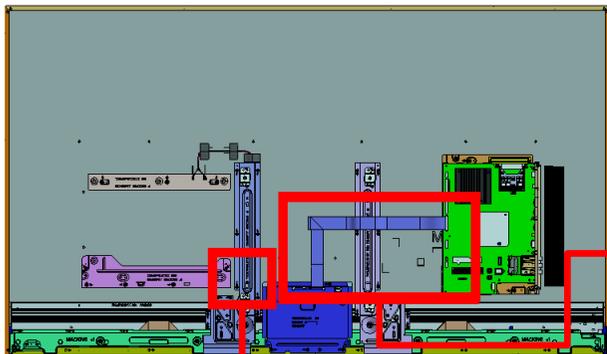
2. KD-65XD8505/8577/8599, FW-65XD8501

2-19. TAPE AND FLEXIBLE FLAT CABLE 41P



2. KD-65XD8505/8577/8599, FW-65XD8501

2-20. FLEXIBLE FLAT CABLE 51P AND SLIDE, CLAMP

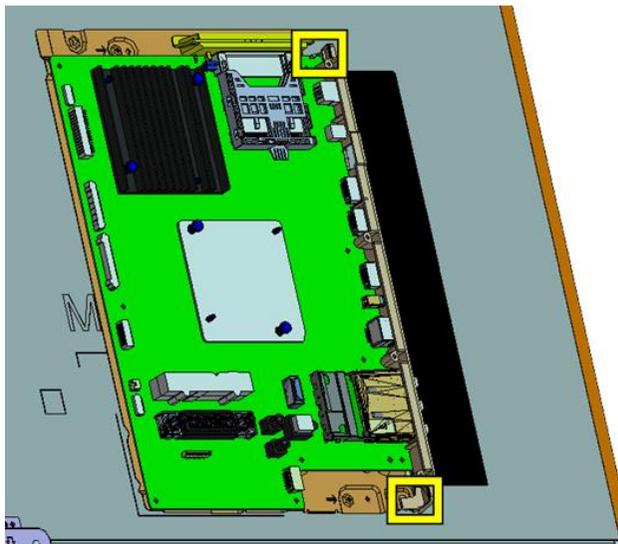


2. KD-65XD8505/8577/8599, FW-65XD8501

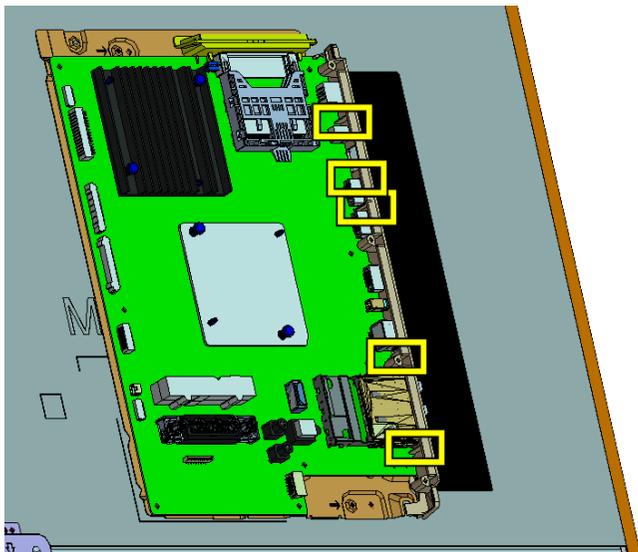
2-21. BRACKET, SIDE (PDT M1)



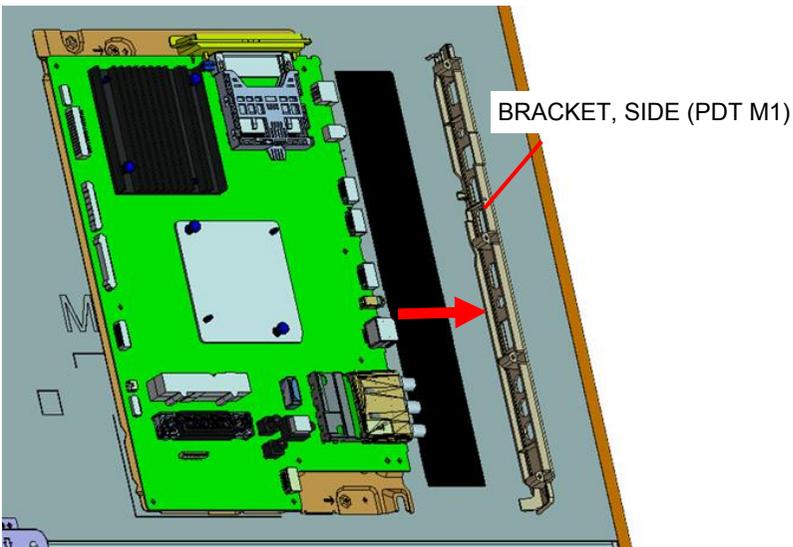
1



2

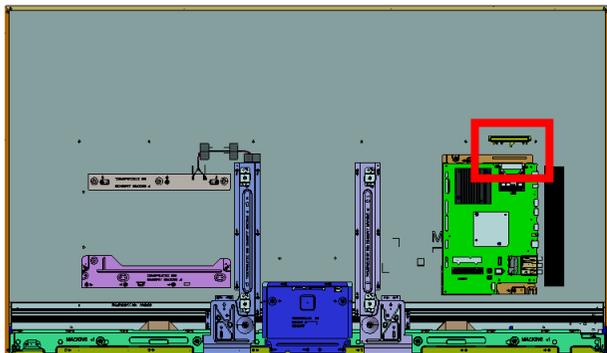


3

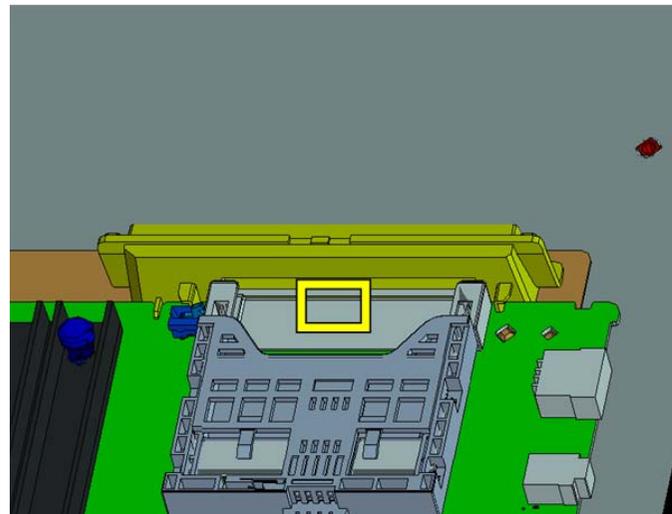


2. KD-65XD8505/8577/8599, FW-65XD8501

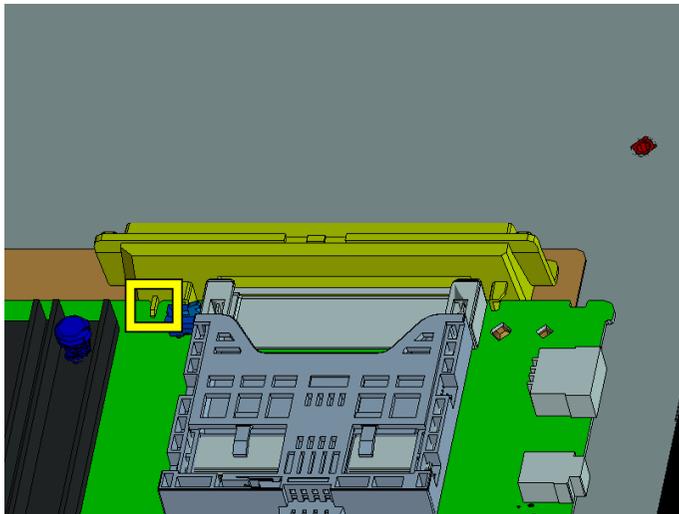
2-22. BRACKET, TOP FL (MOLD)



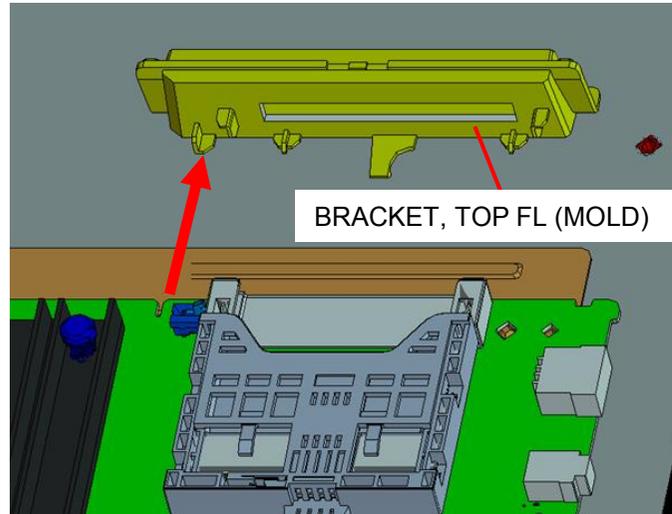
1



2

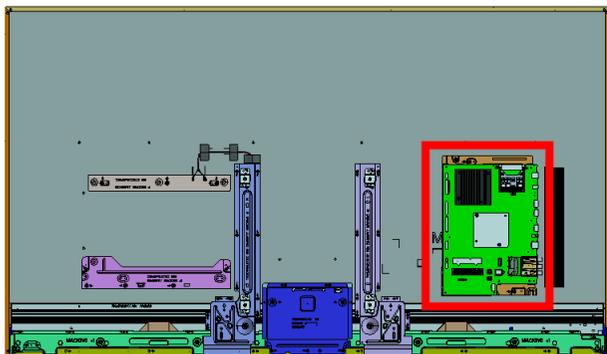


3

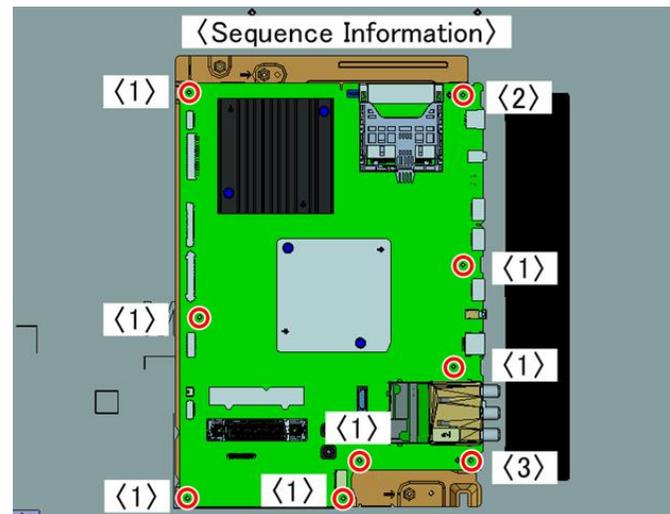


2. KD-65XD8505/8577/8599, FW-65XD8501

2-23. BMFW2

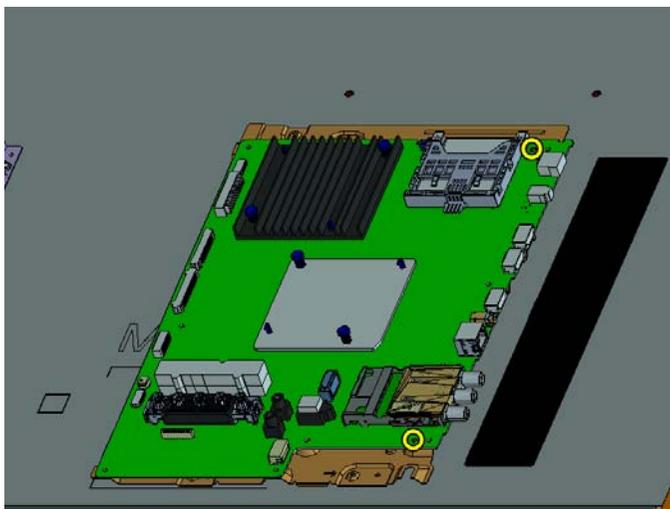


1

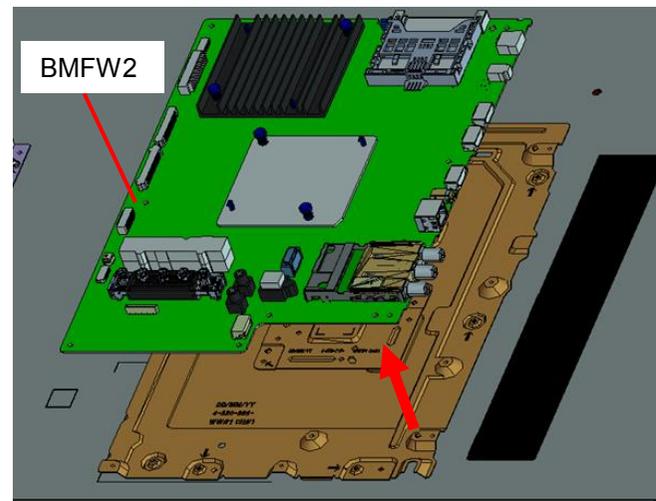


9 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

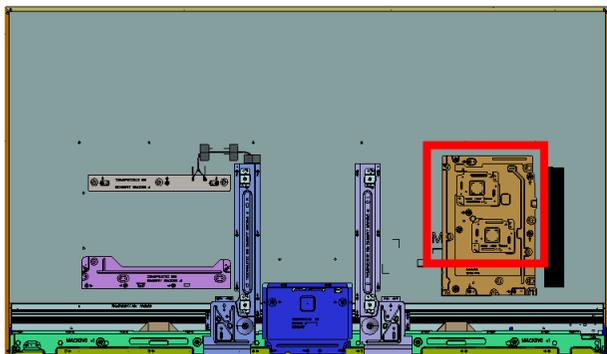


3

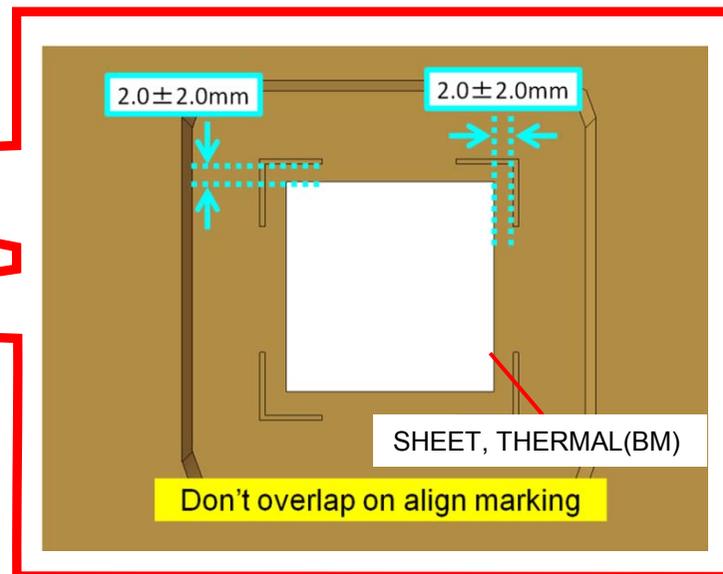
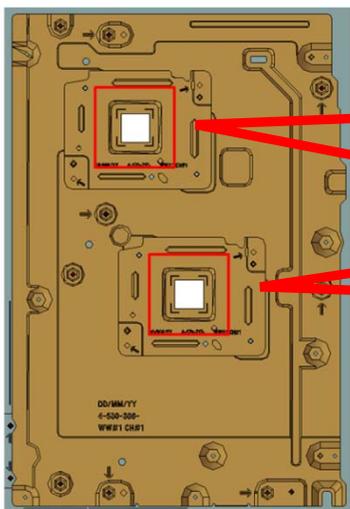
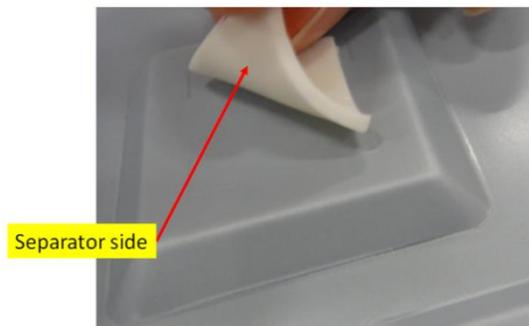


2. KD-65XD8505/8577/8599, FW-65XD8501

2-24. SHEET, THERMAL(BM)

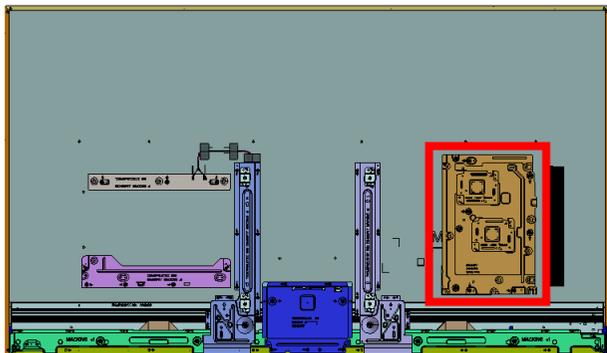


Be careful the side of SHEET THERMAL.

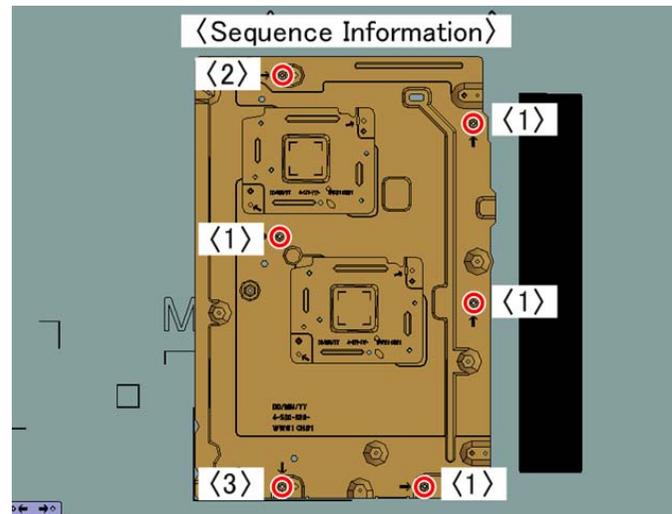


2. KD-65XD8505/8577/8599, FW-65XD8501

2-25. PLATE, MAIN(PDT M1)

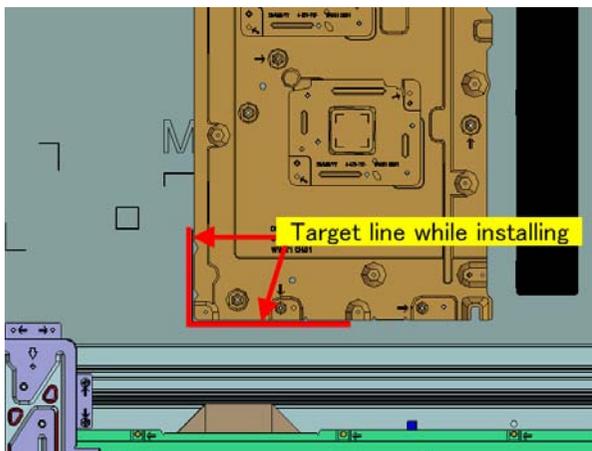


1

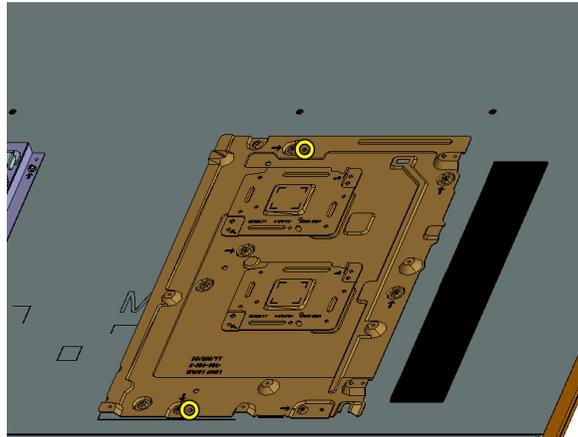


6 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

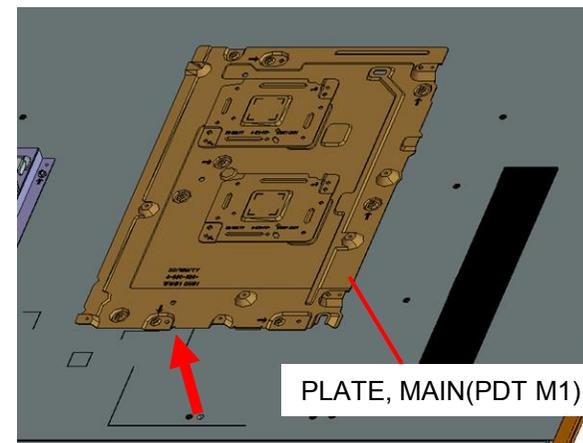
2



3

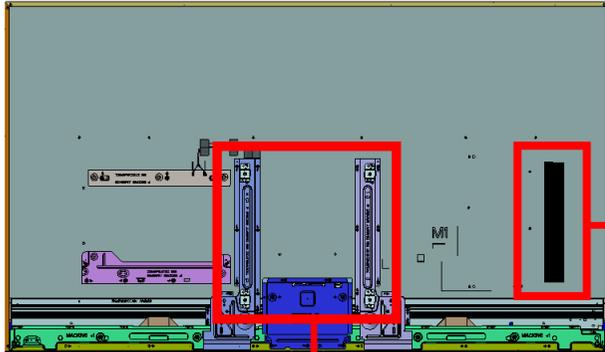


4



2. KD-65XD8505/8577/8599, FW-65XD8501

2-26 LABEL, SIDE TERMINAL (PDT M1) AND BRACKET, VESA(MIA)



When you do panel replacement, please also replace this part at the same time to a new one.

LABEL, SIDE TERMINAL (PDT M1)

Align the label to the marking,
① corner edge
② left side line

To prevent bubbles from entering,
Please stroked the label from the top side to bottom side.

Caution: Don't damage to LABEL. Scratch, deform, dirty etc....

1

2

3

4

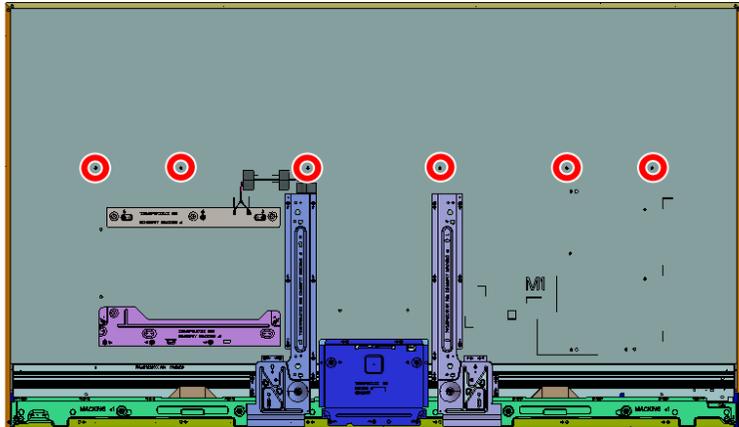
BRACKET, VESA(MIA)

○ 4 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2. KD-65XD8505/8577/8599, FW-65XD8501

2-27. SCREW AND VA TAPE AND LCD PANEL

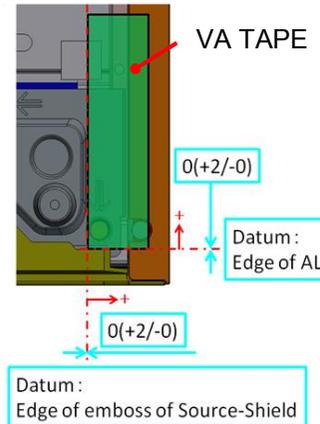
1



6 screws (SCREW M3X3.0 STEP) P/N: 4-579-926-01

2

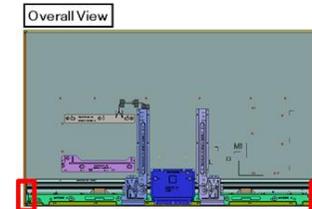
When you do panel replacement, please also replace this part at the same time to a new one.



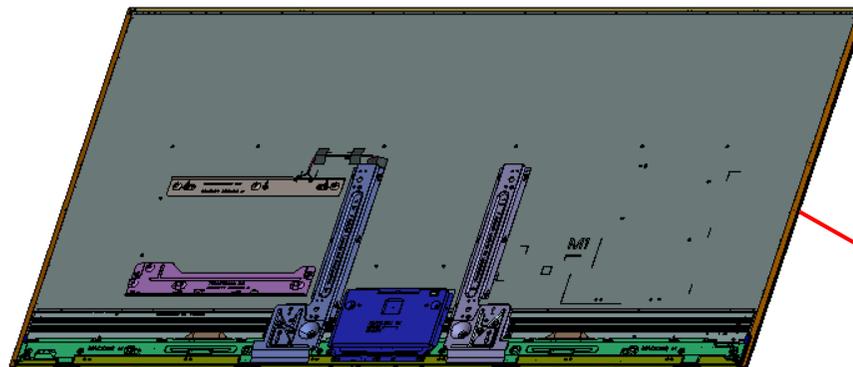
※L/R symmetry



※Tape must cover the side wall of Source-Shield.



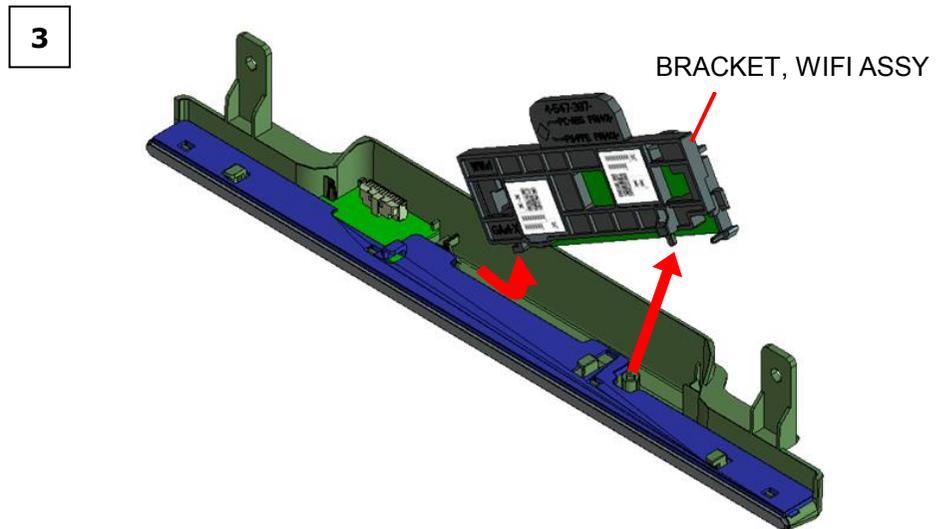
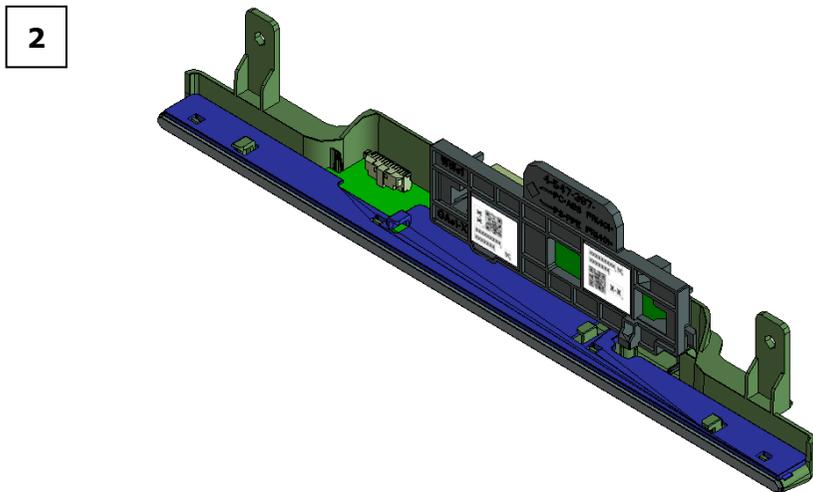
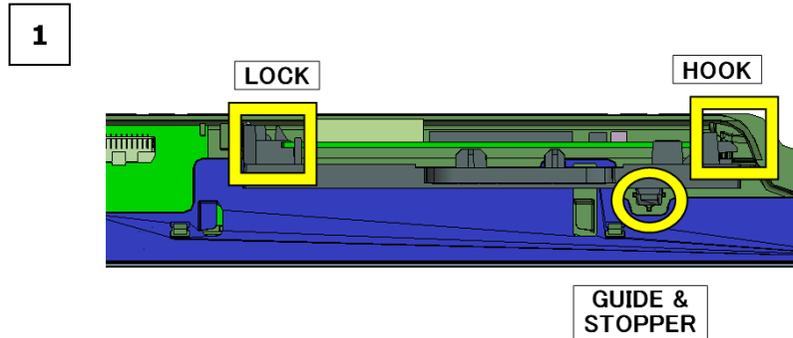
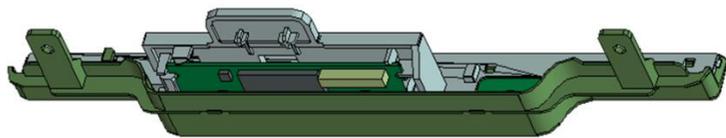
3



LCD PANEL

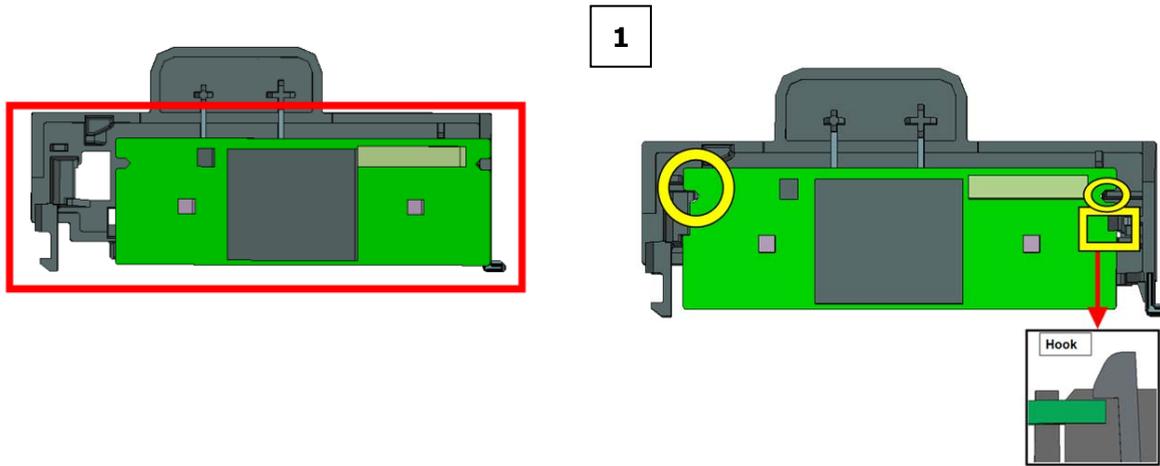
3. SMART CORE (S)

3-1. BRACKET, WIFI ASSY

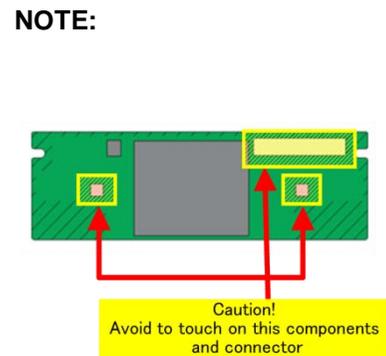
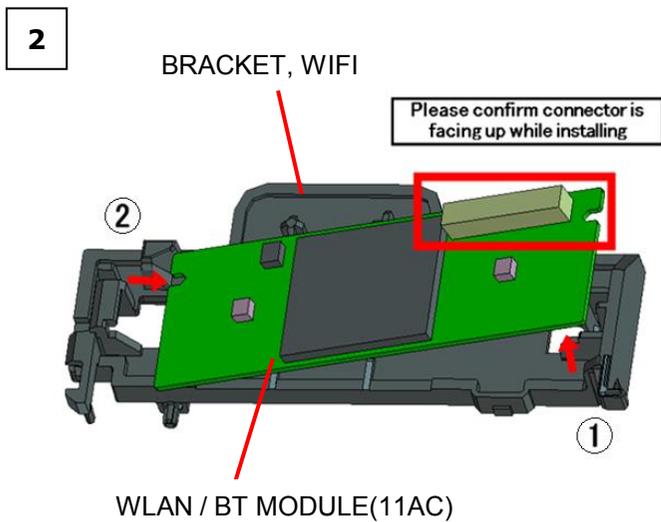
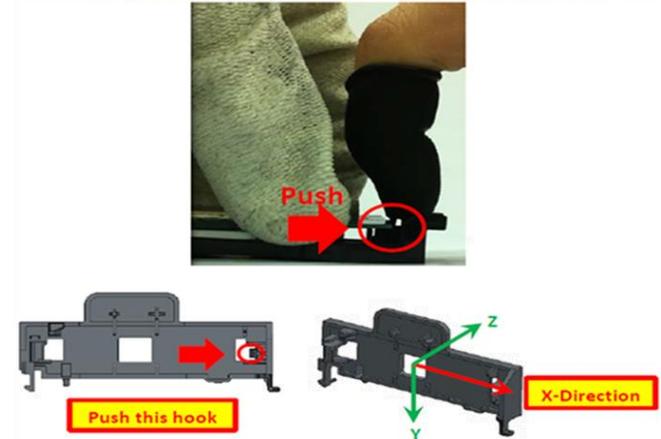


3. SMART CORE (S)

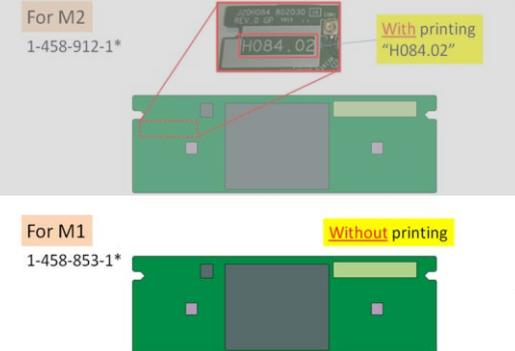
3-2. WLAN / BT MODULE(11AC) AND BRACKET, WIFI



NOTE: Please push hook with force ≤ 5.0 N to X-Direction while installing WLAN module
 *WLAN/BT module is confirmed locked when click sound is heard.



How to distinguish PWB for M1 and M2



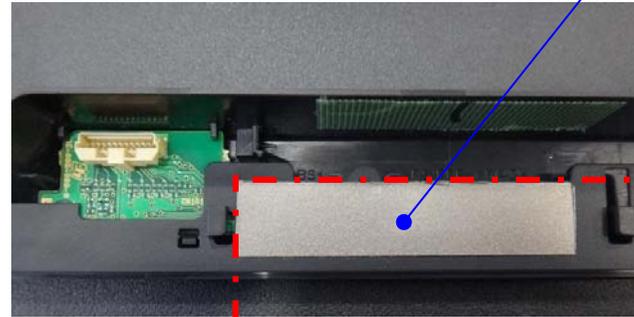
3. SMART CORE (S)

3-3. SHEET, IR NOISE AND COVER, TOP

1

When you do TOP COVER replacement, please also replace this part at the same time to a new one.

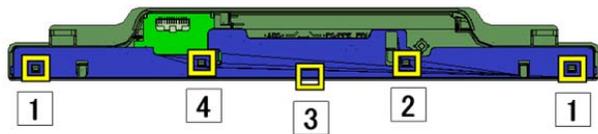
SHEET, IR NOISE P/N: 4-590-730-01
60 x 13 (t0.2)



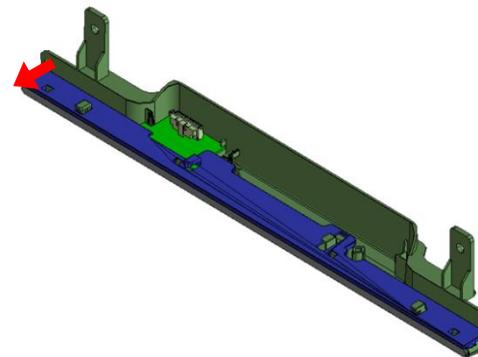
Datum: edge of cover top

Datum: edge of cover top hole

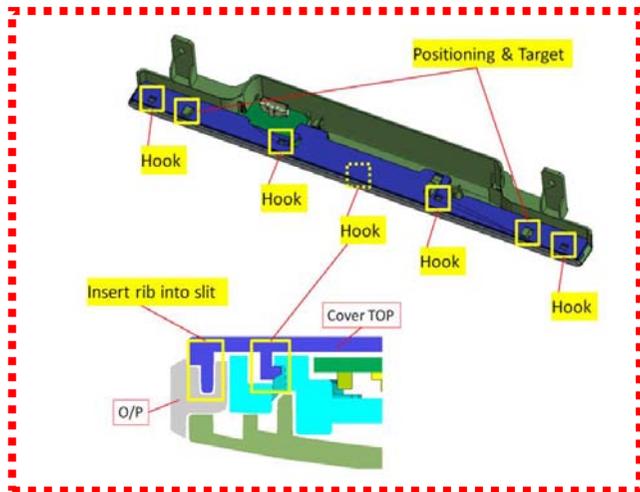
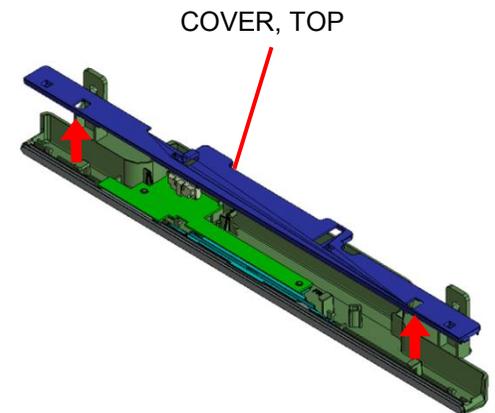
2



3

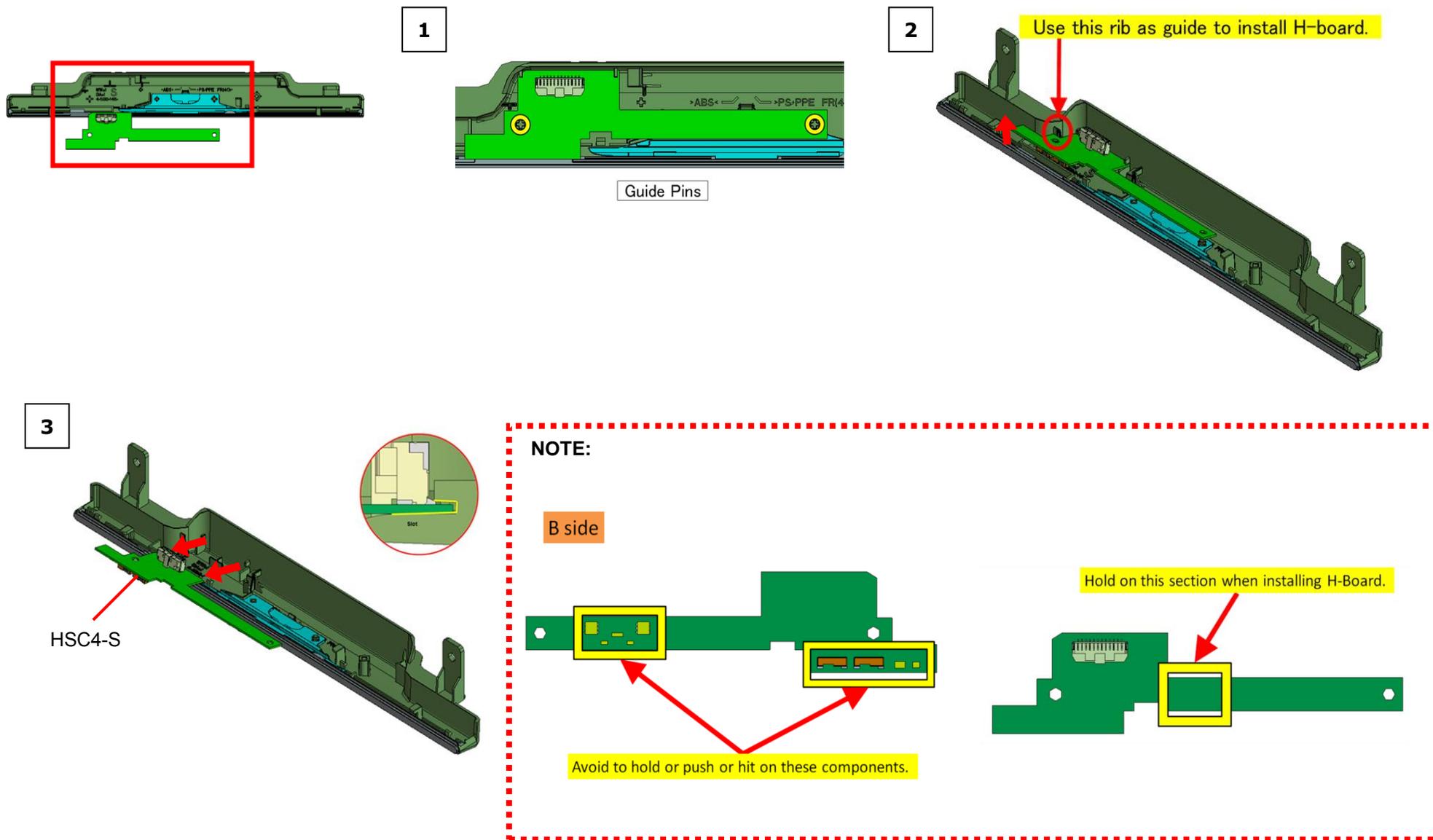


4



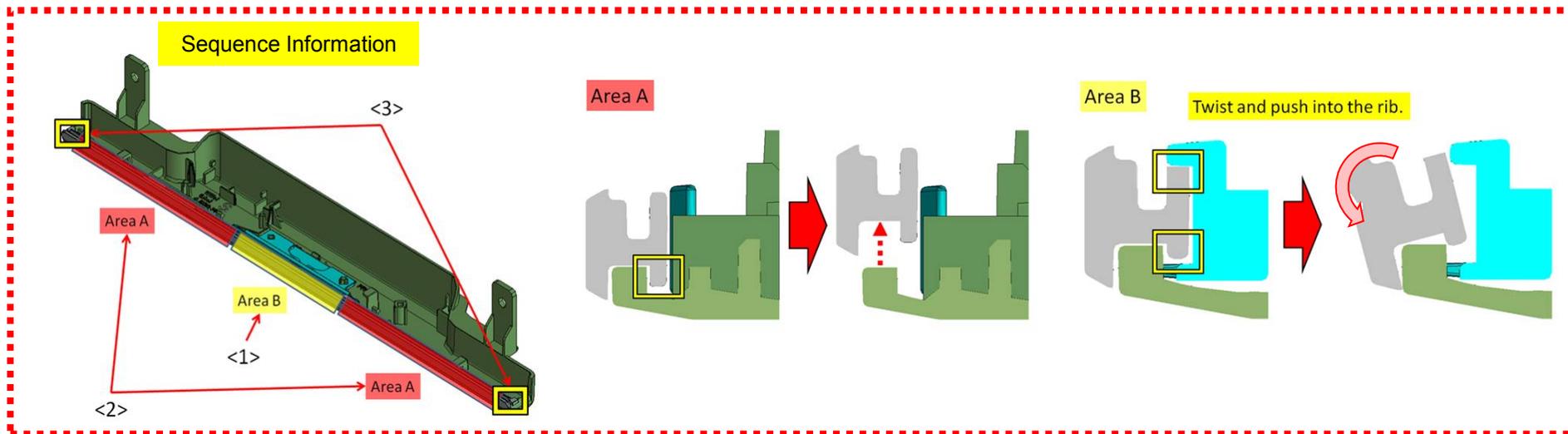
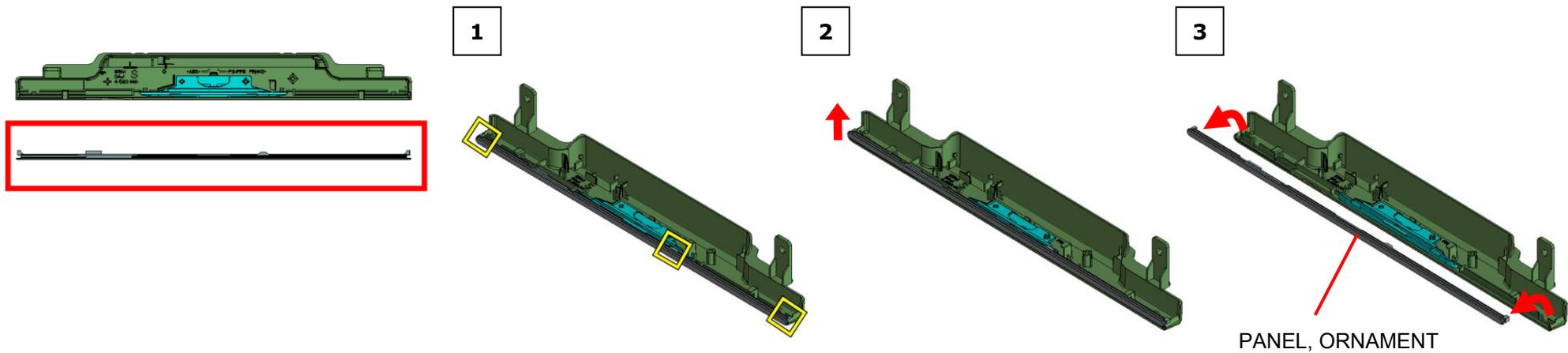
3. SMART CORE (S)

3-4. HSC4-S



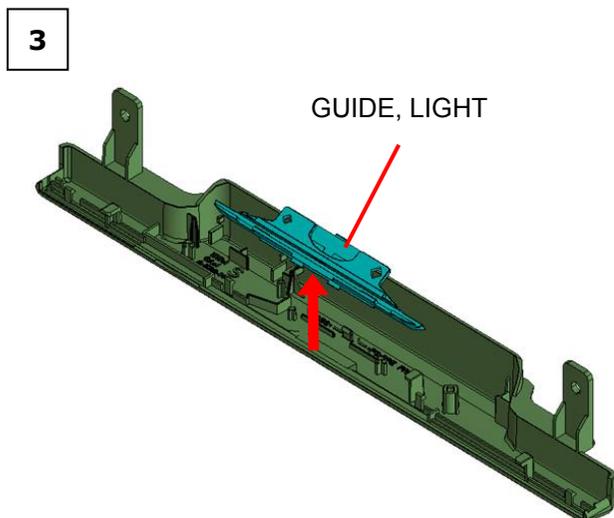
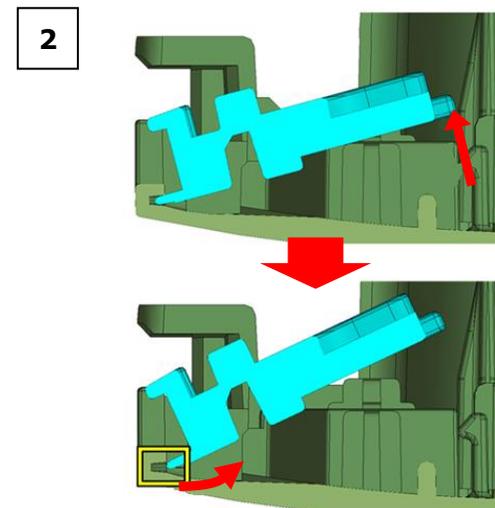
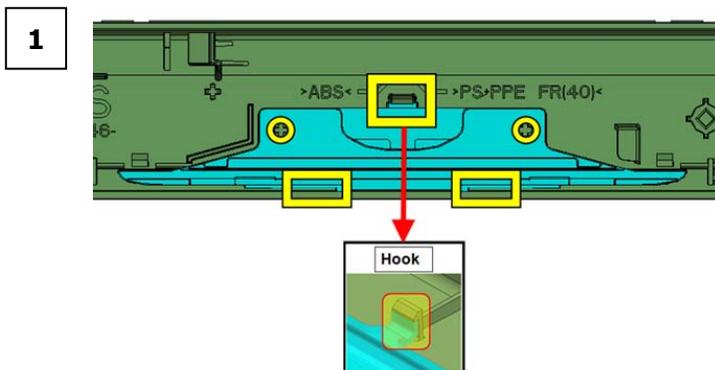
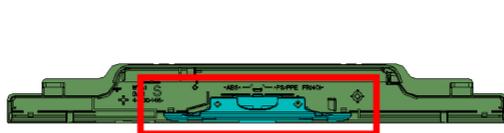
3. SMART CORE (S)

3-5. PANEL, ORNAMENT



3. SMART CORE (S)

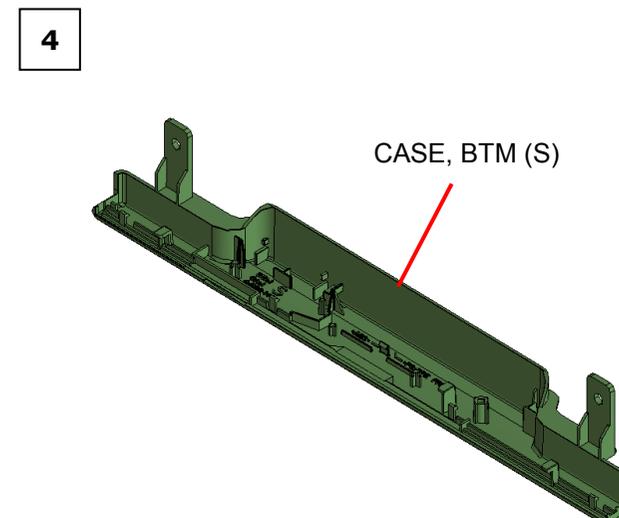
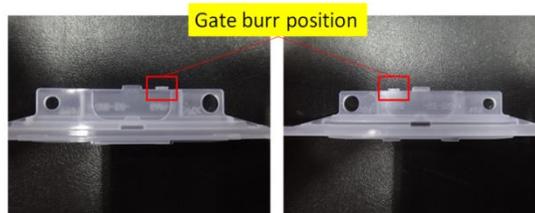
3-6. GUIDE, LIGHT AND CASE, BTM (S)



Be careful the direction of GUIDE, LIGHT.

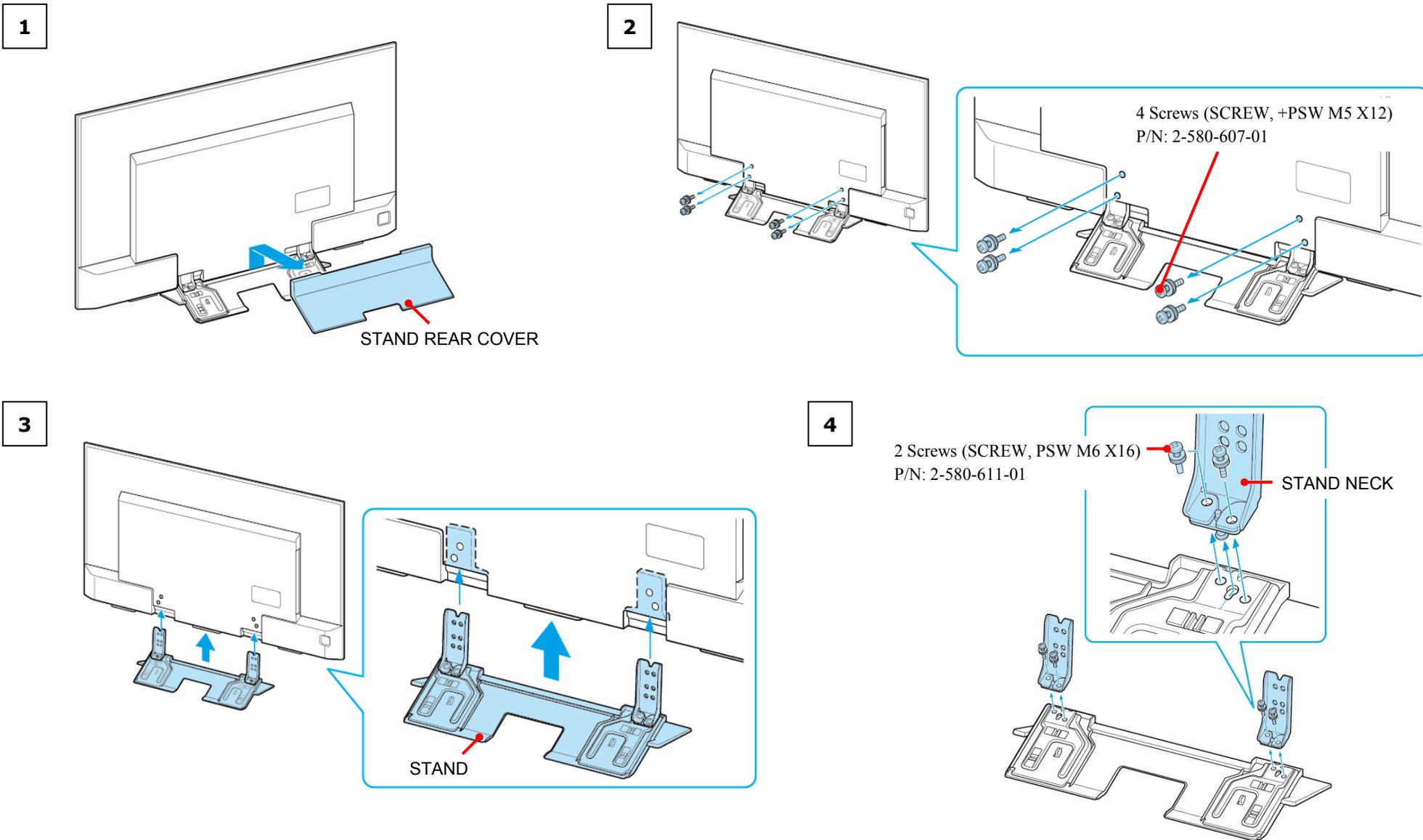
OK

NG



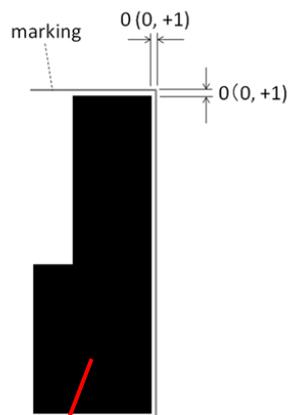
4. KD-75XD8505, FW-75XD8501

4-1. STAND



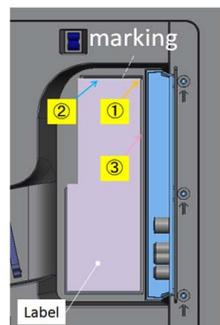
4. KD-75XD8505, FW-75XD8501

4-2. LABEL, REAR TERMINAL (GNT) AND LABEL, INSIDE TERMINAL(PDT 3L)

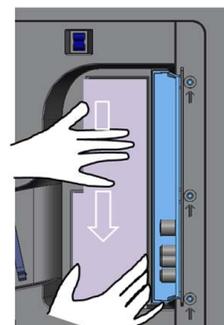


LABEL, INSIDE TERMINAL(PDT 3L)

NOTE:

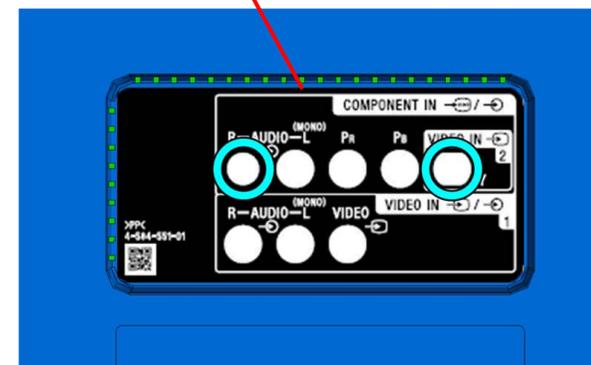


Align the label to the marking,
 ①corner edge
 ②upper line
 ③right side line



To prevent bubbles from entering,
 Please stroked the label from the
 top side to bottom side.

LABEL, REAR TERMINAL (GNT)



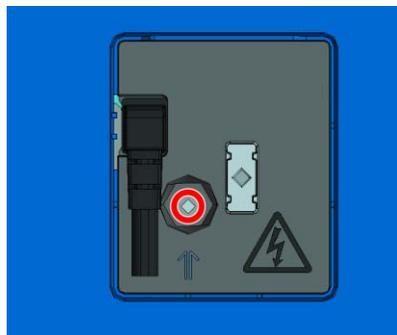
Positioning hole

4. KD-75XD8505, FW-75XD8501

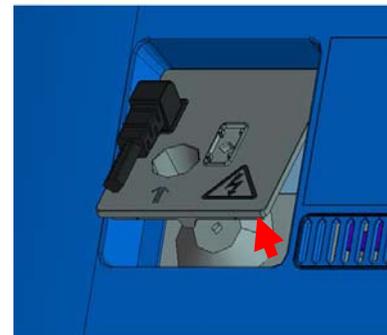
4-3. AC COVER AND POWER-SUPPLY CORD



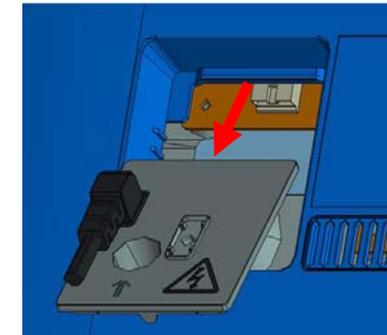
1



2

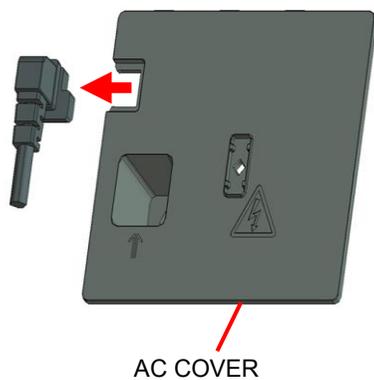


3

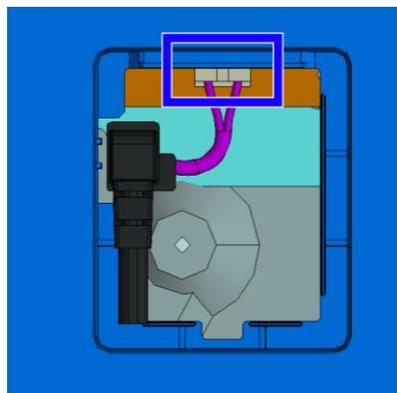


⊙ Screw (SCREW, +PSW M4X10) P/N: 4-159-298-01

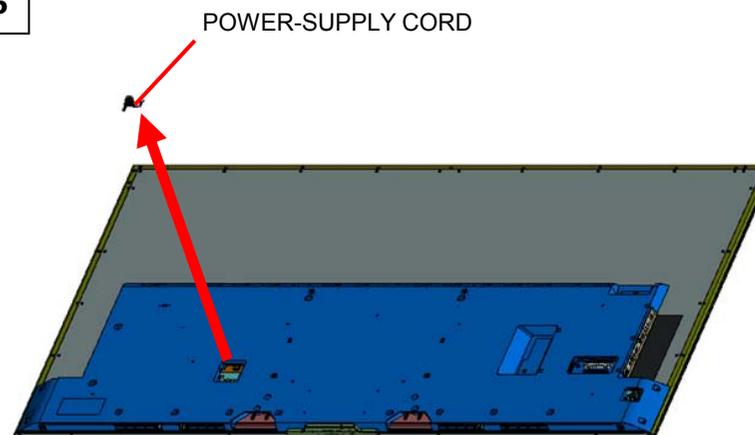
4



5



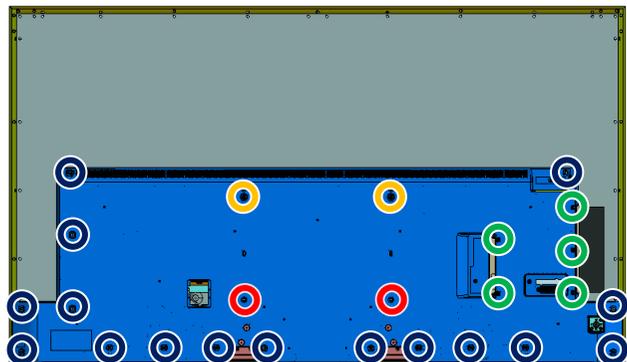
6



4. KD-75XD8505, FW-75XD8501

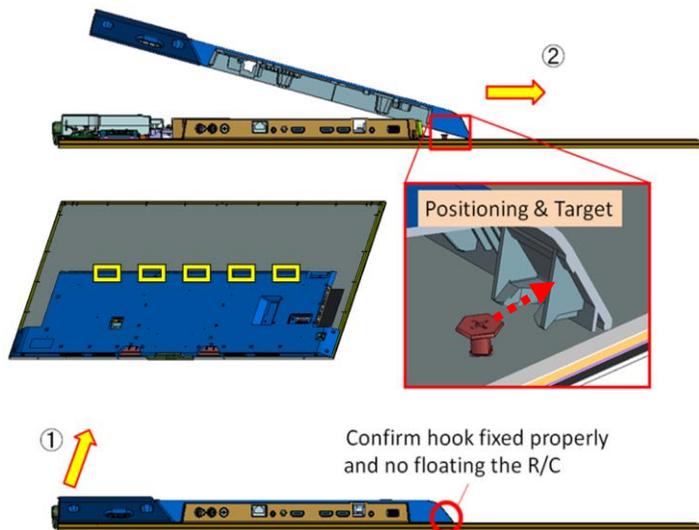
4-4. REAR COVER (3L_PDT) A

1



- 2 screws (SCREW, ORNAMENTAL M6X12) P/N: 4-268-126-02
- 2 screws (SCREW, +PSW M4X10) P/N: 4-159-298-01
- 5 screws (SCREW +BVTP 3X10 TYPE2 IT-3) P/N: 7-685-647-79
- 16 screws (SCREW M3X3.0 STEP) P/N: 4-579-926-01

2

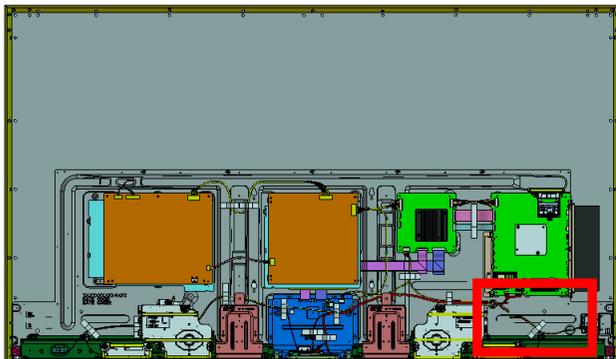


3

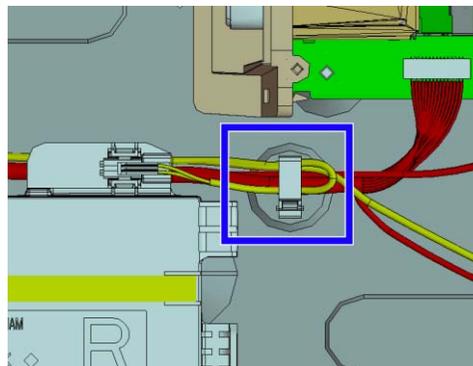


4. KD-75XD8505, FW-75XD8501

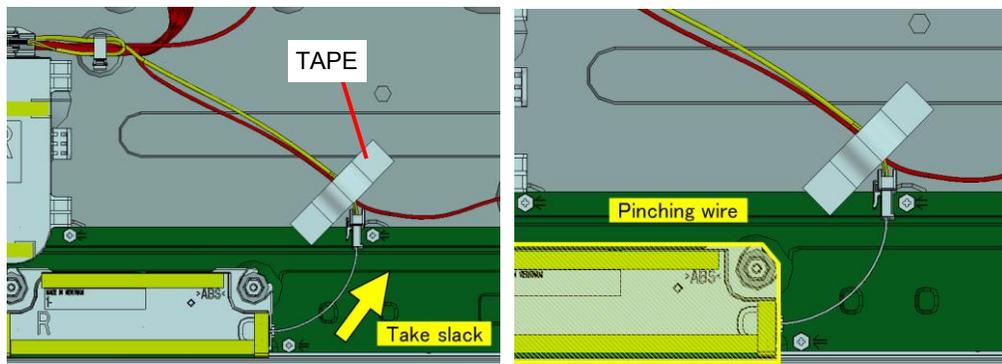
4-5. WIRE DRESSING AND TAPE



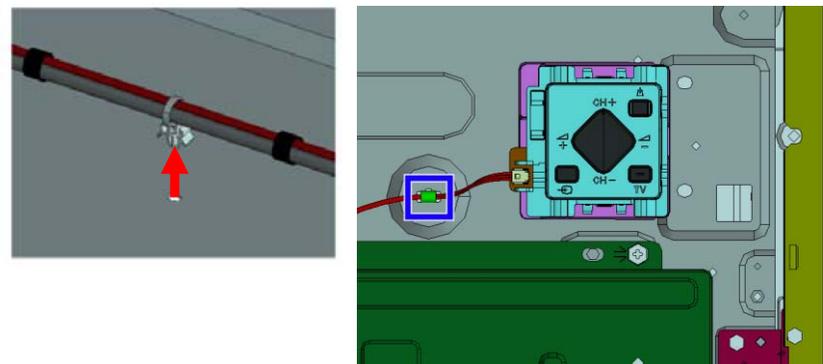
1



2

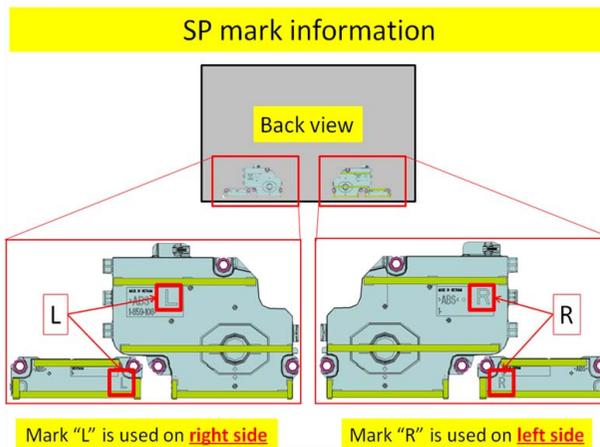
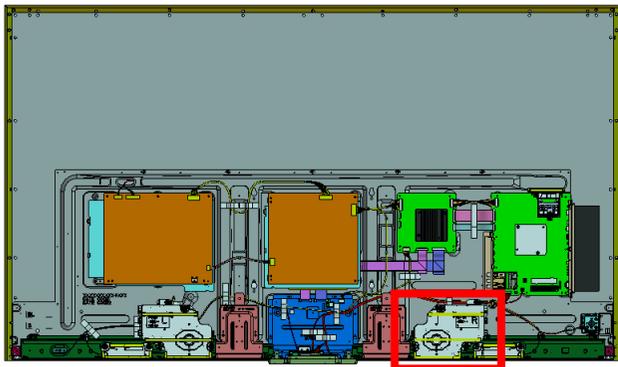


3

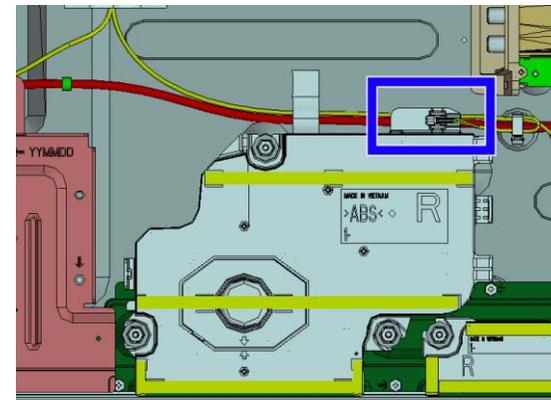


4. KD-75XD8505, FW-75XD8501

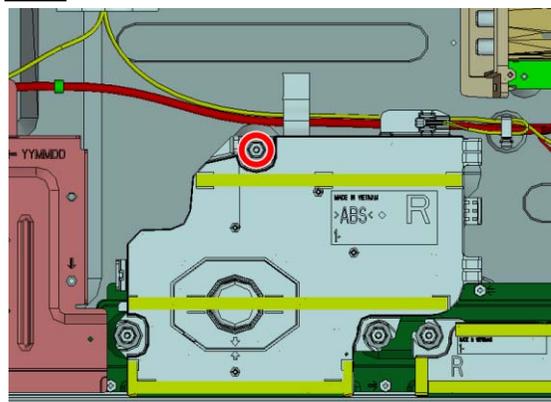
4-6. SP-BOX ASSY(D20-WF RCH CH-ND)



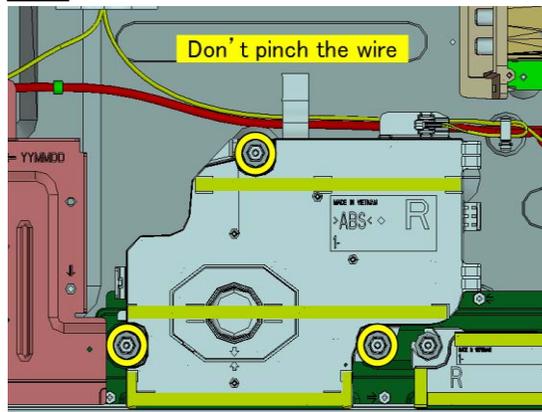
1



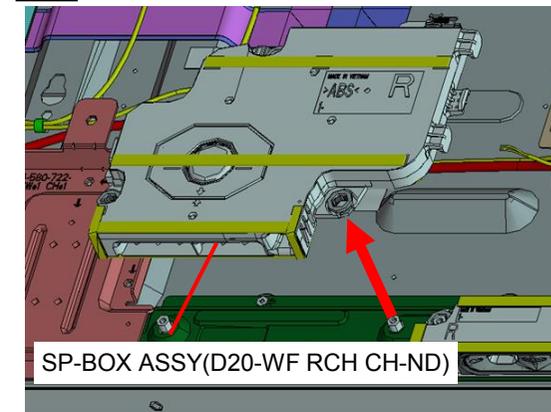
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3



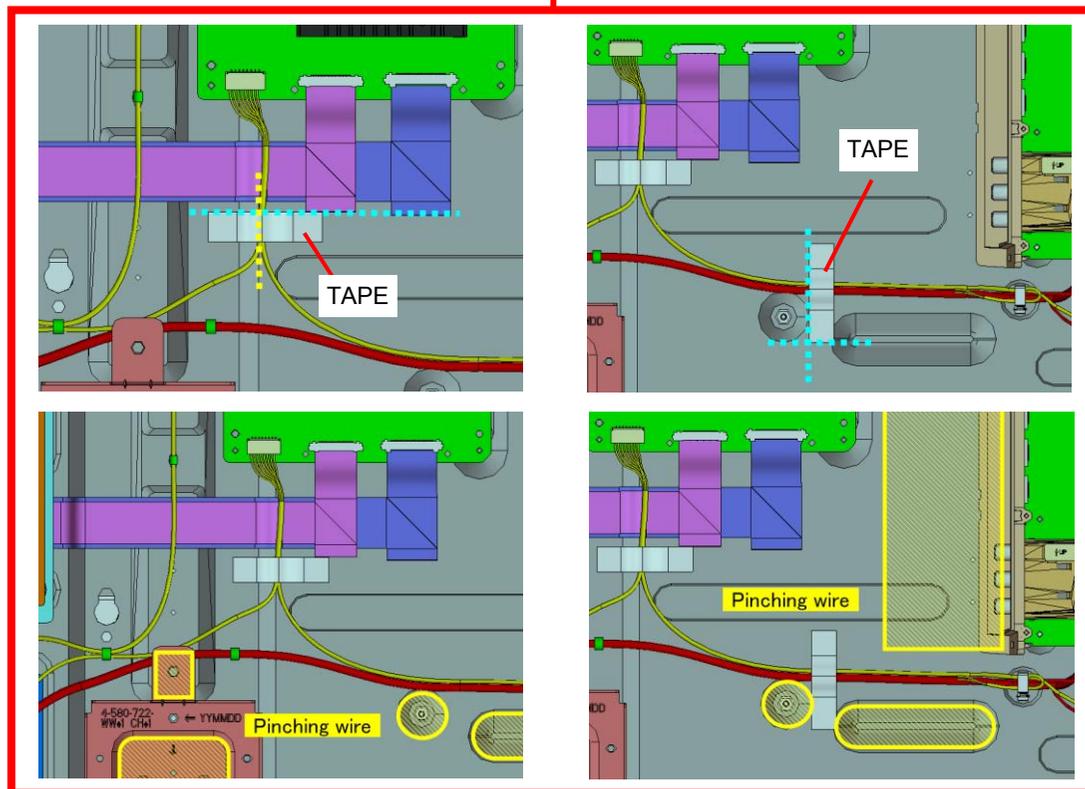
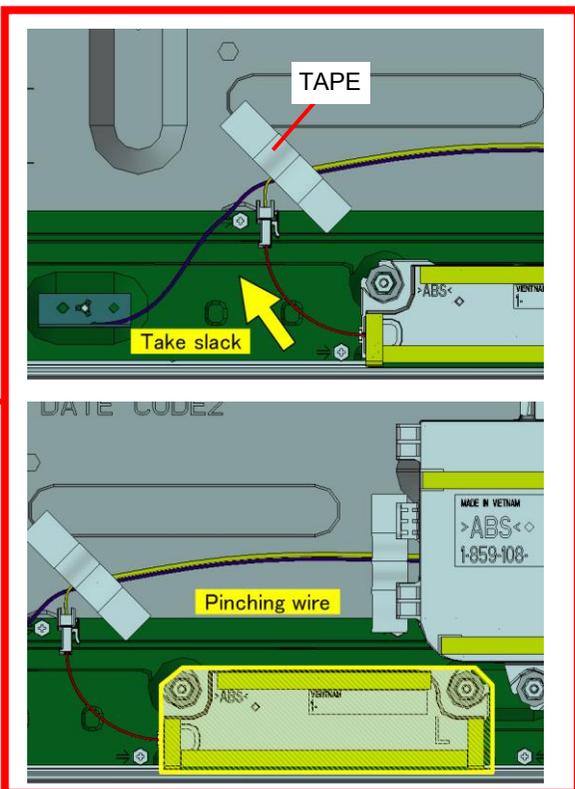
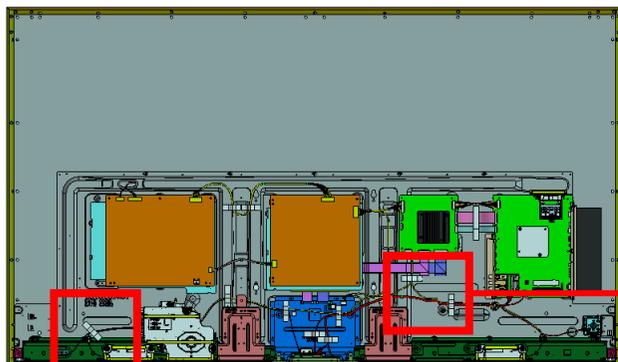
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Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

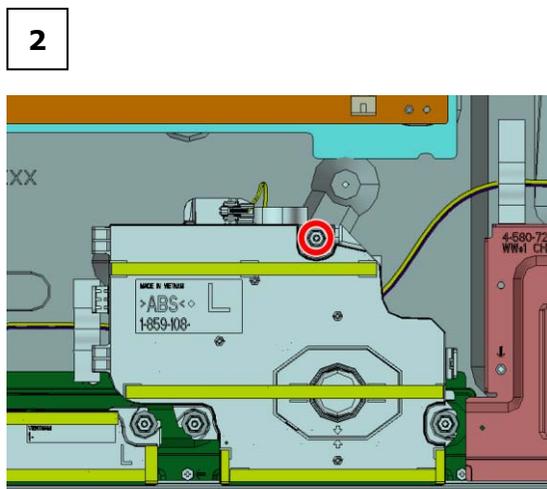
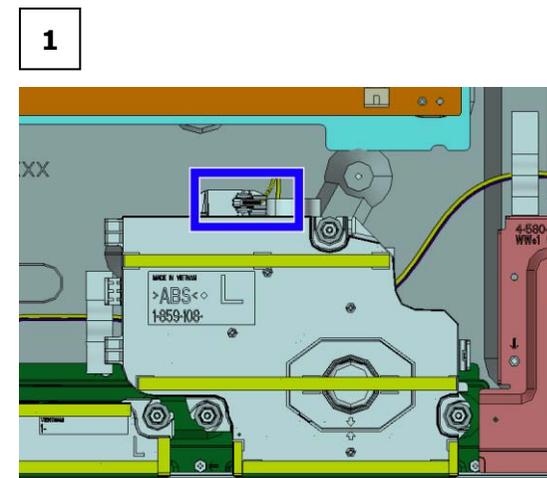
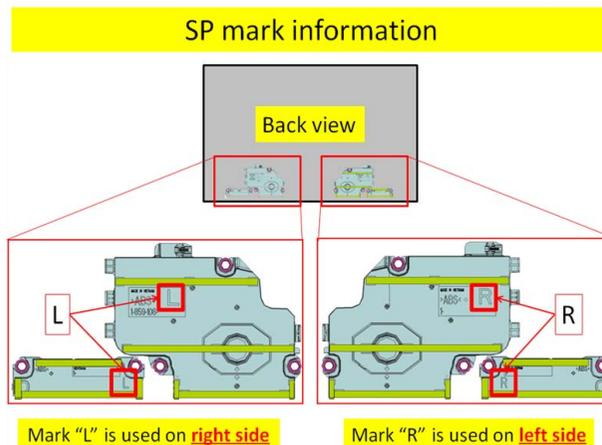
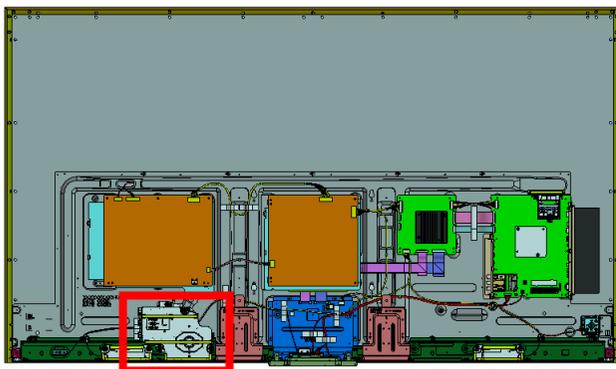
4. KD-75XD8505, FW-75XD8501

4-7. TAPE

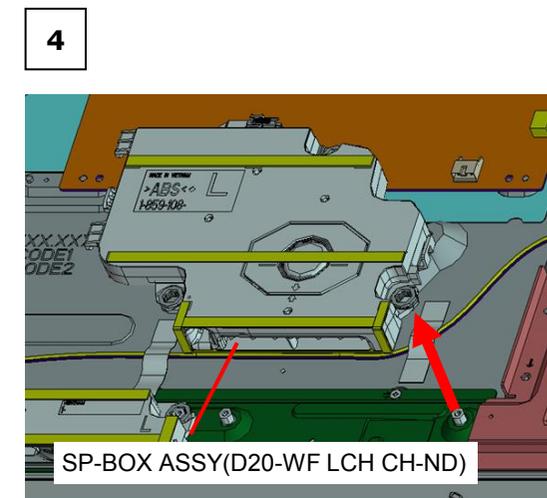
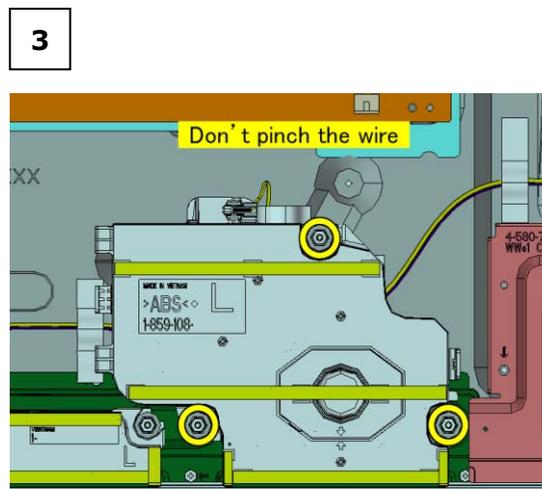


4. KD-75XD8505, FW-75XD8501

4-8. SP-BOX ASSY(D20-WF LCH CH-ND)

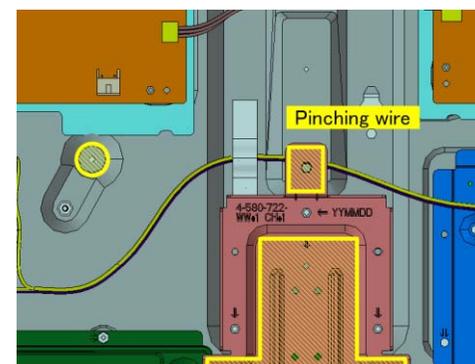
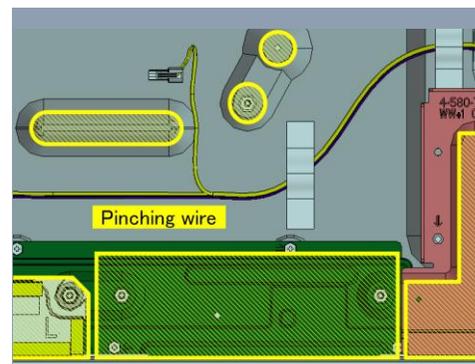
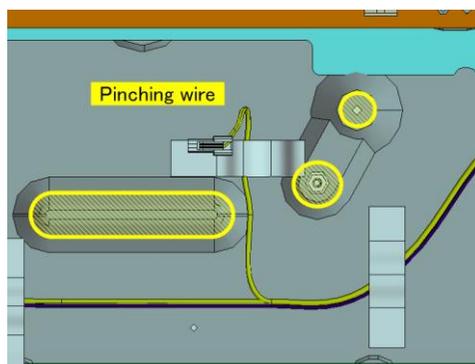
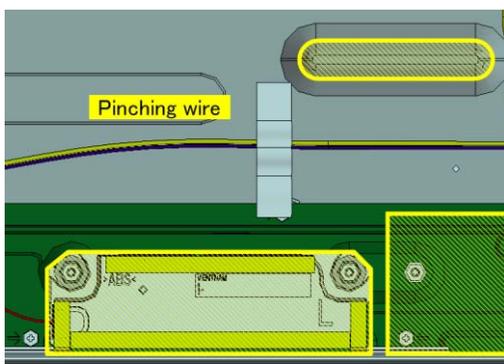
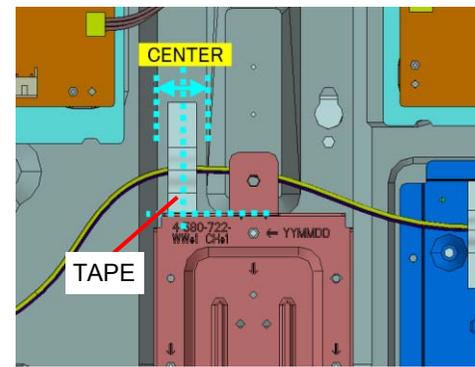
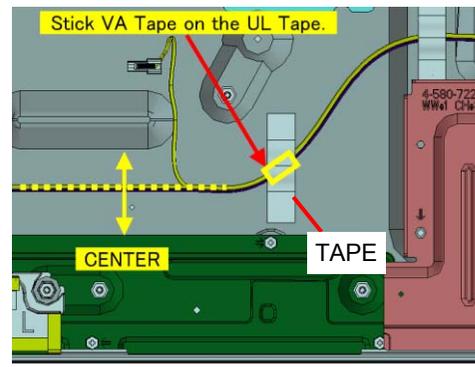
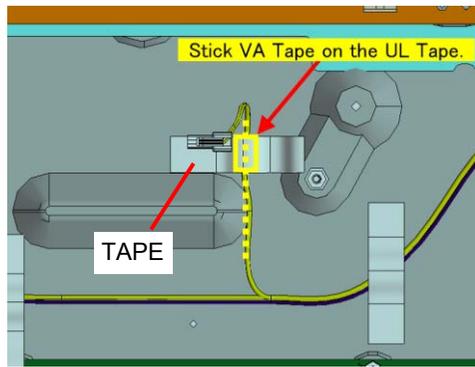
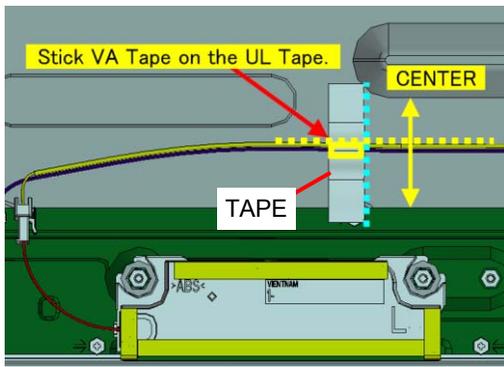
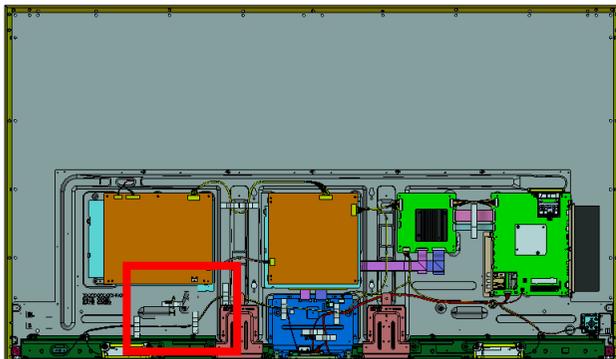


Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12



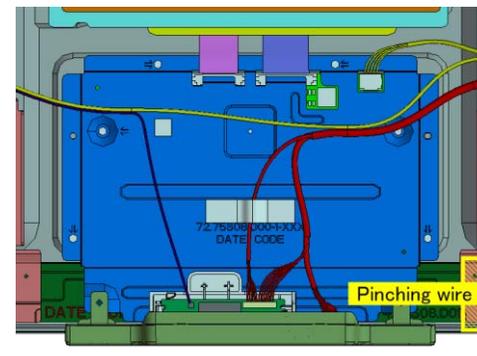
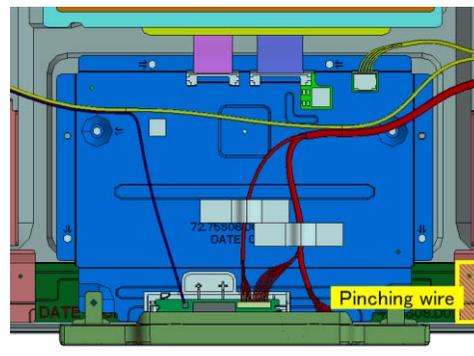
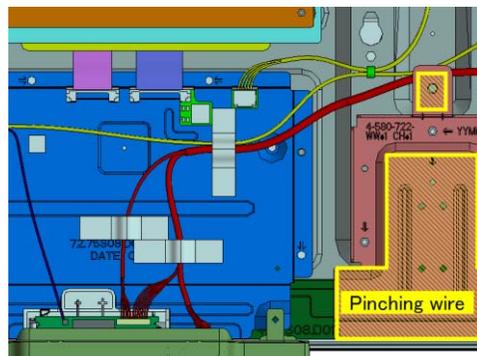
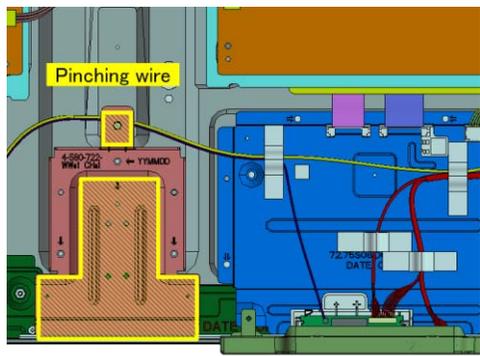
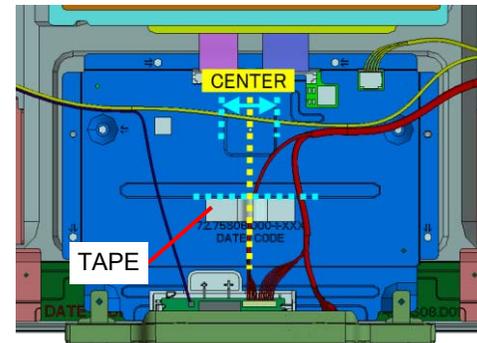
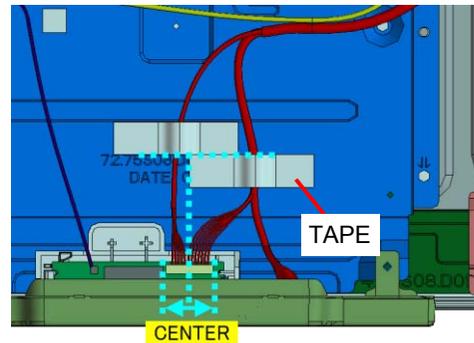
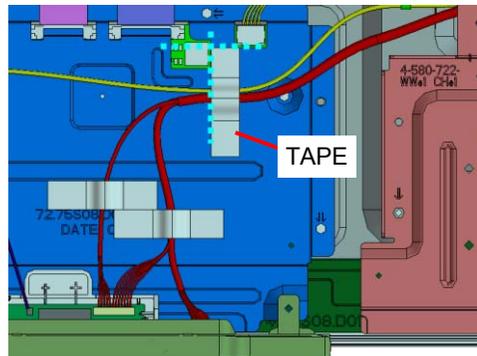
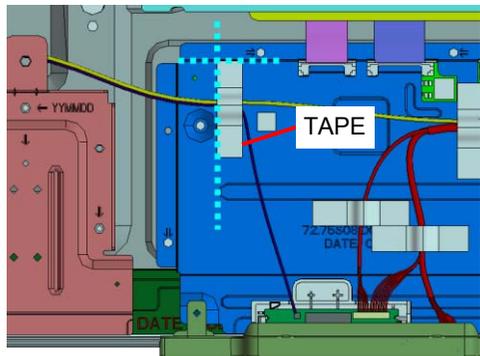
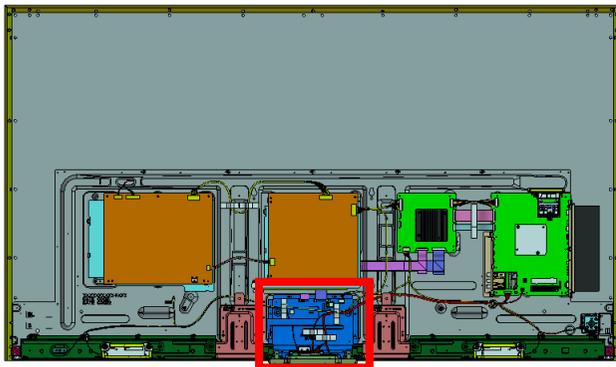
4. KD-75XD8505, FW-75XD8501

4-9. TAPE



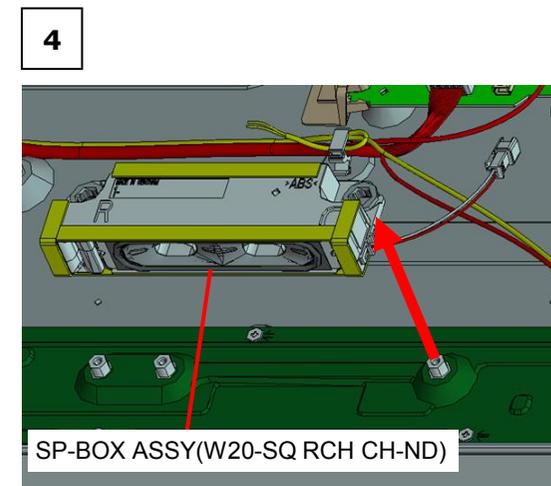
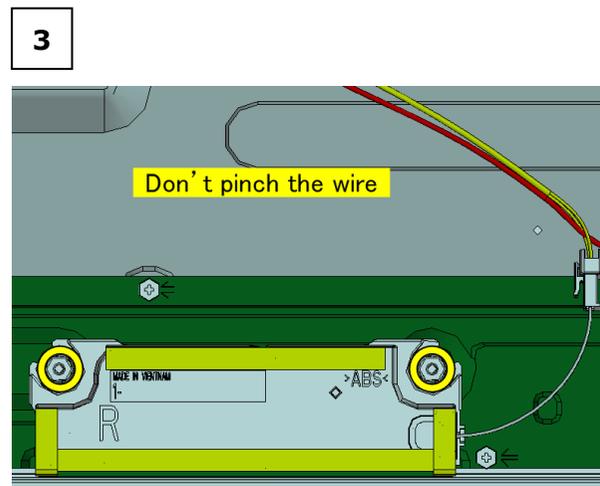
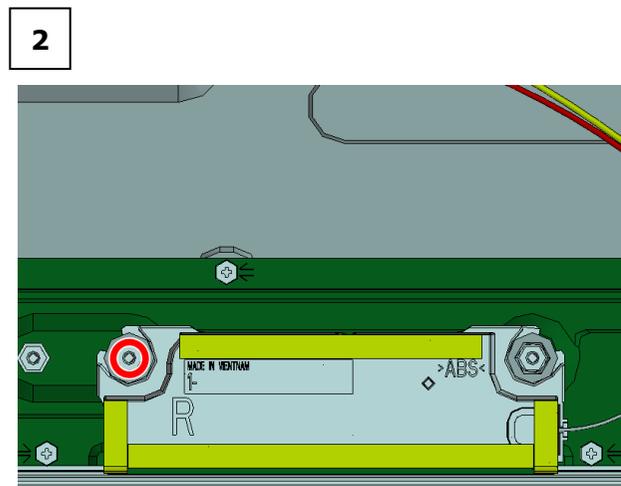
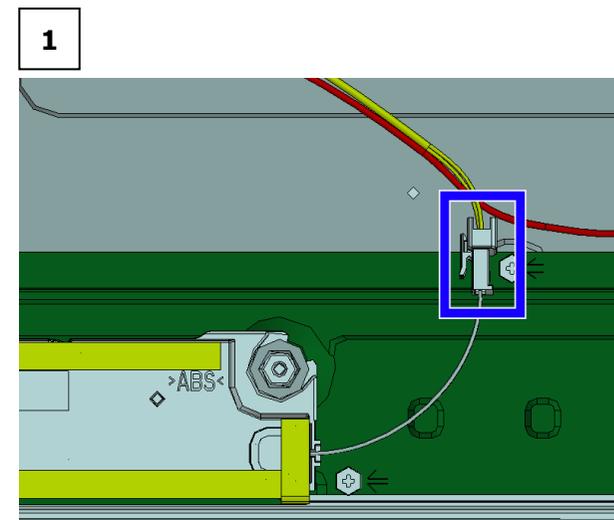
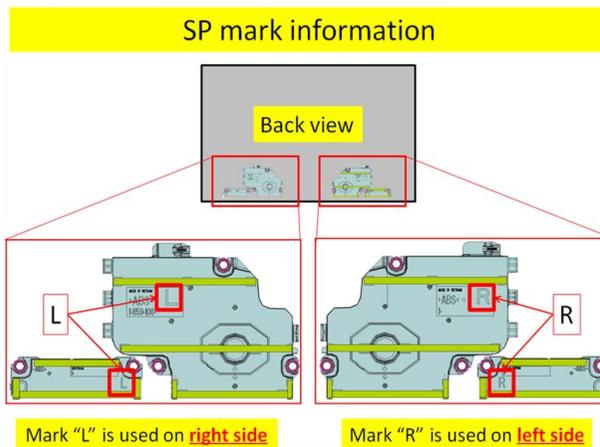
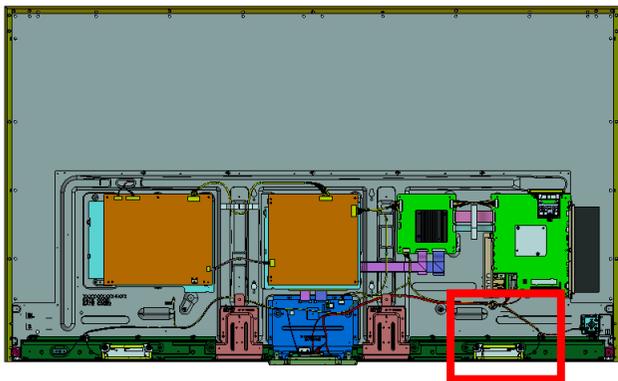
4. KD-75XD8505, FW-75XD8501

4-10. TAPE



4. KD-75XD8505, FW-75XD8501

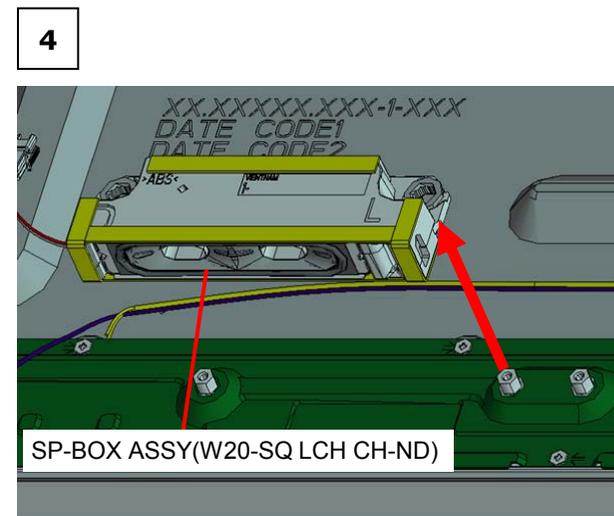
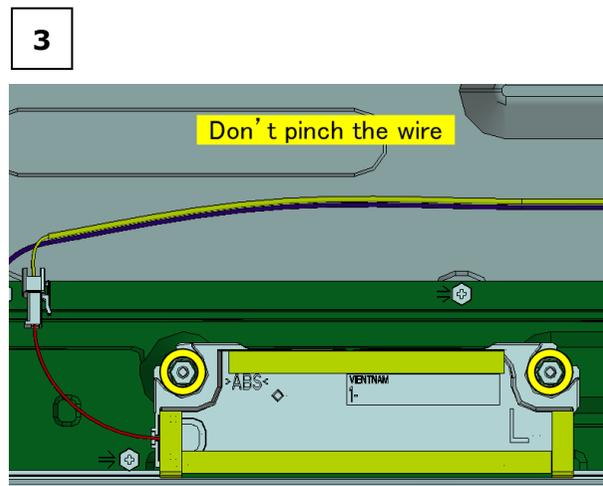
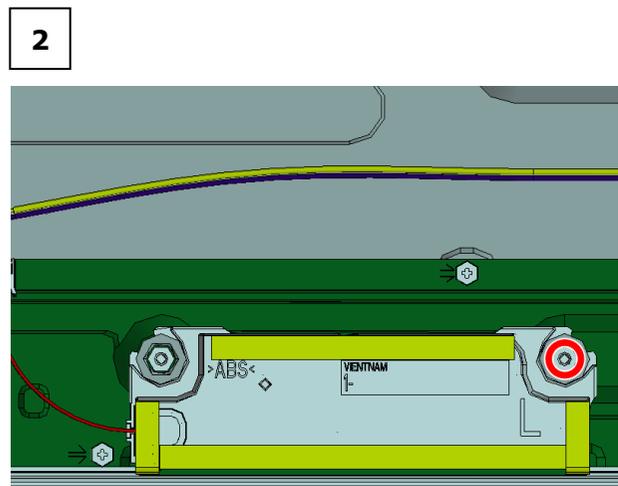
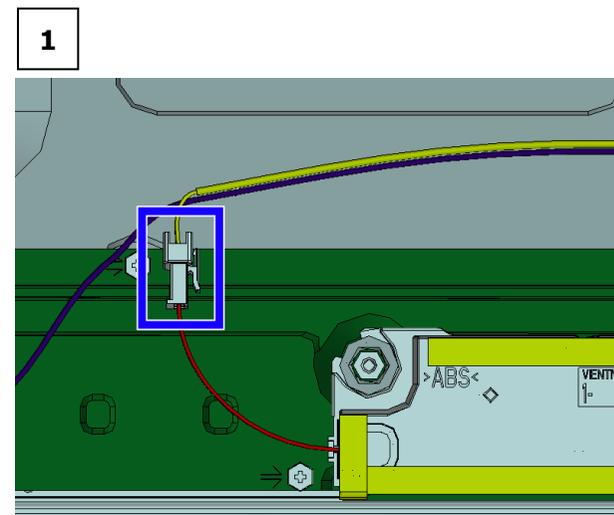
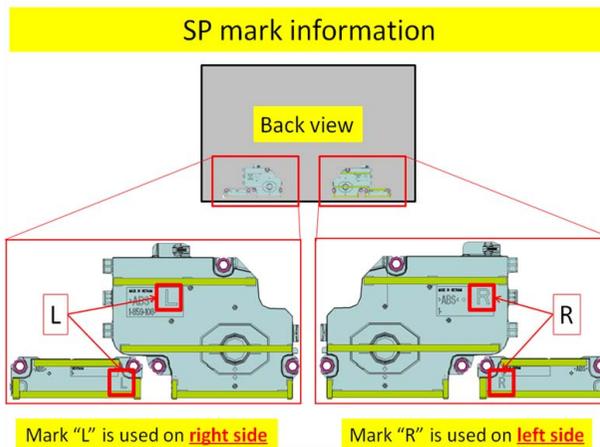
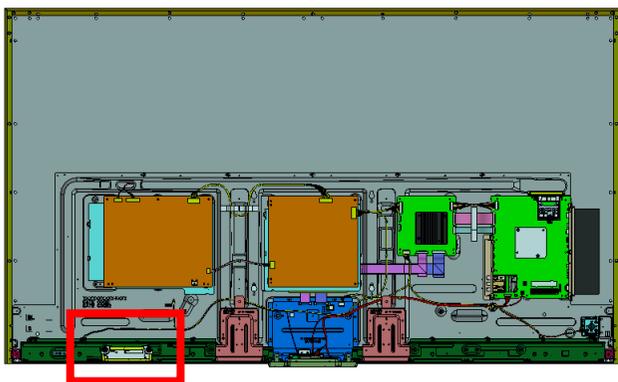
4-11. SP-BOX ASSY(W20-SQ RCH CH-ND)



Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

4. KD-75XD8505, FW-75XD8501

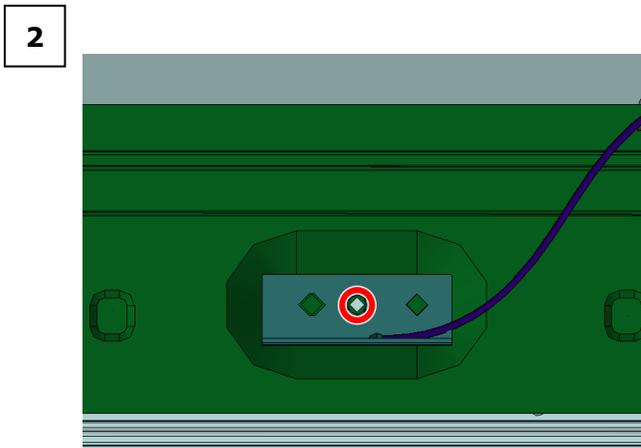
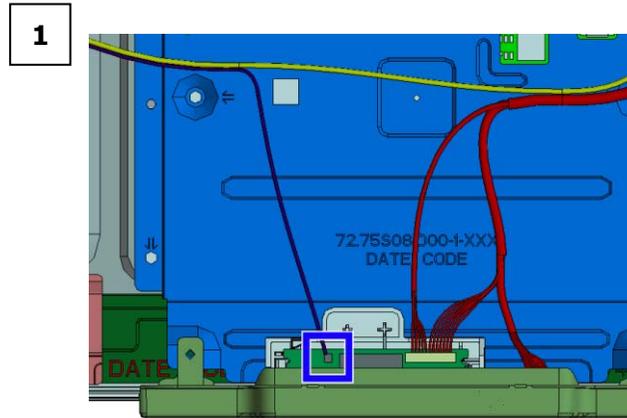
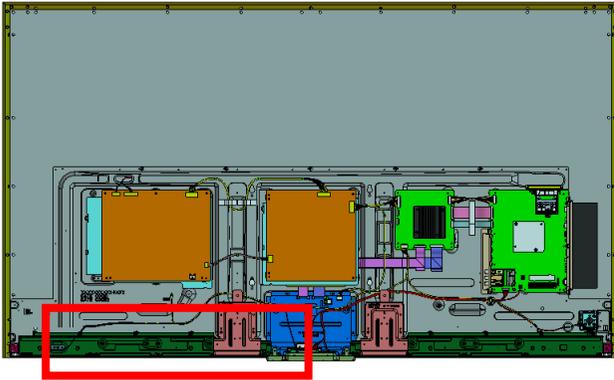
4-12. SP-BOX ASSY(W20-SQ LCH CH-ND)



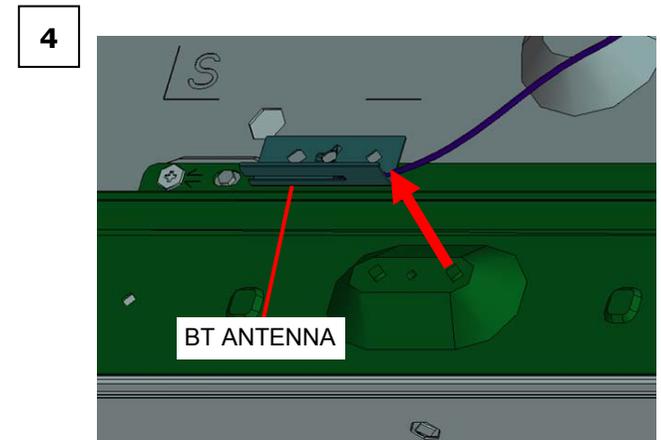
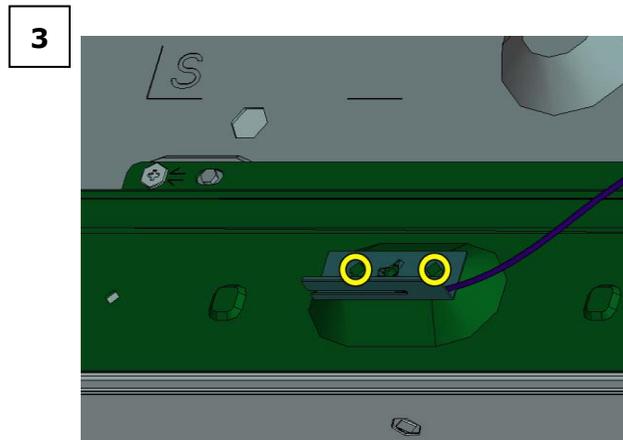
○ Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

4. KD-75XD8505, FW-75XD8501

4-13. BT ANTENNA

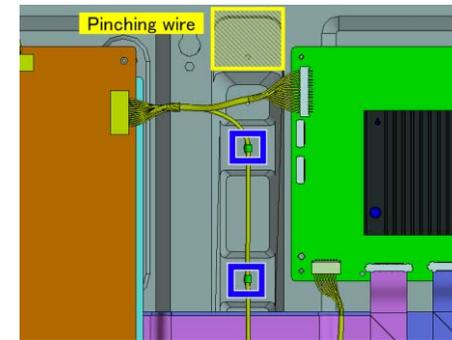
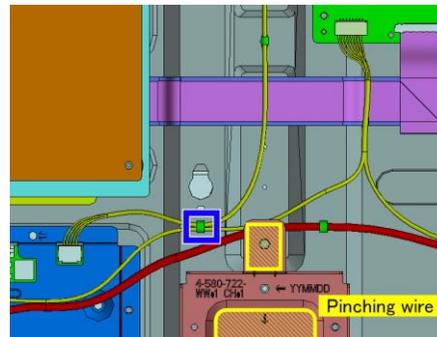
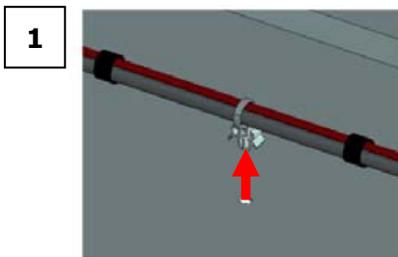
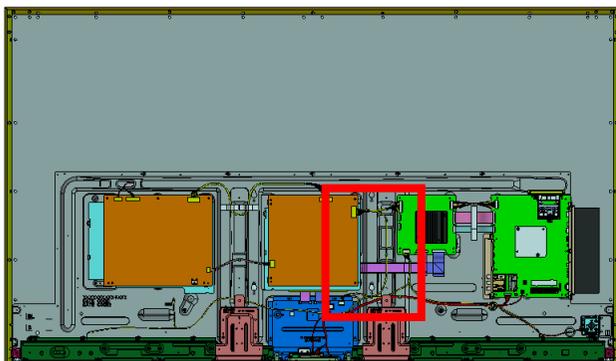


○ Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11

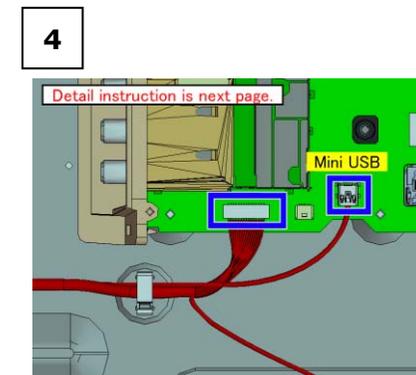
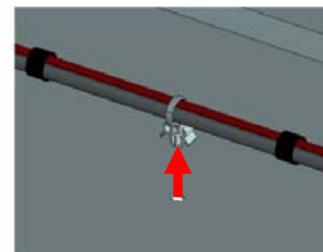
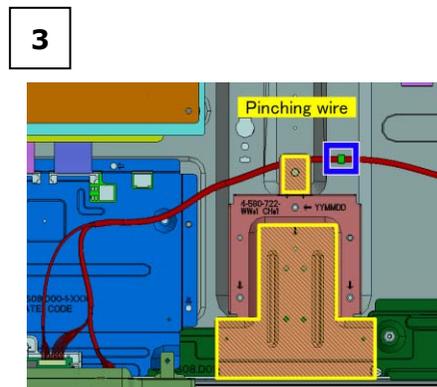
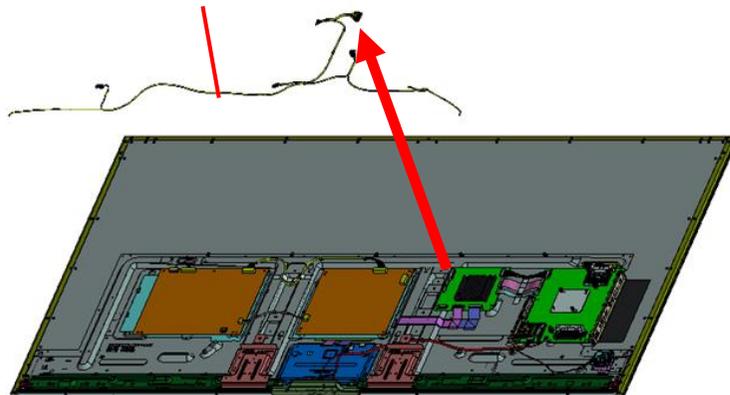


4. KD-75XD8505, FW-75XD8501

4-14. WIRE DRESSING AND HARNESS ASSY (GBTS)



HARNESS ASSY (GBTS)
P/N: 1-910-111-03

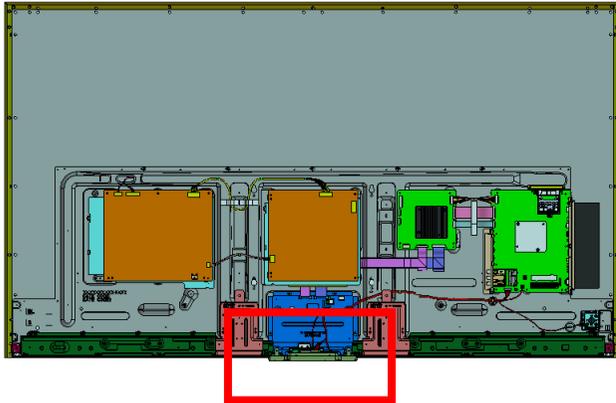


Check Mini USB connector condition.



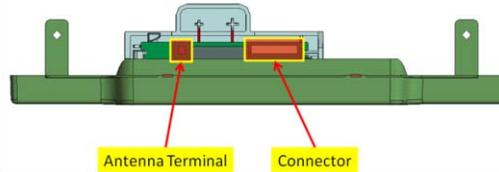
4. KD-75XD8505, FW-75XD8501

4-15. SMART CORE (M)

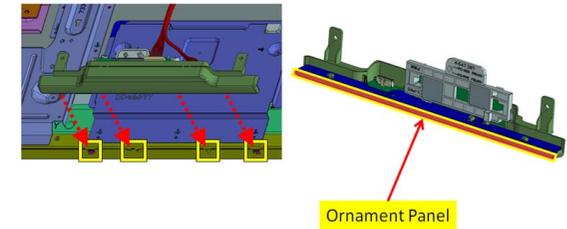


NOTE:

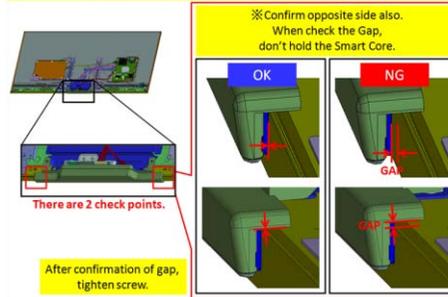
Don't touch these components while installing.



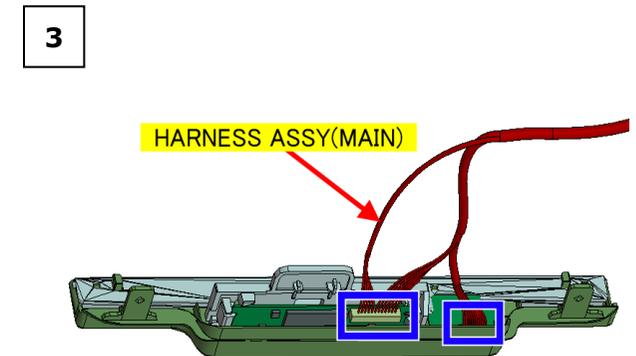
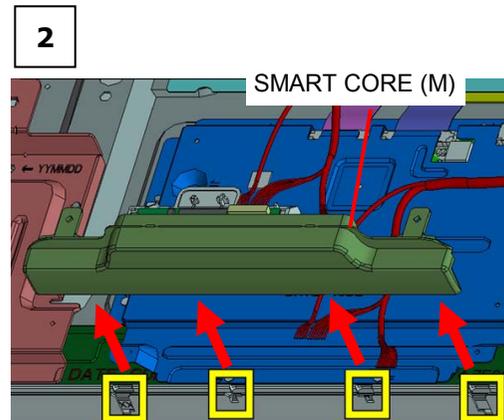
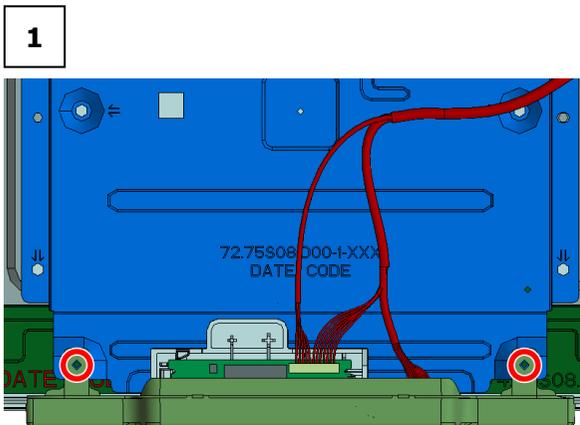
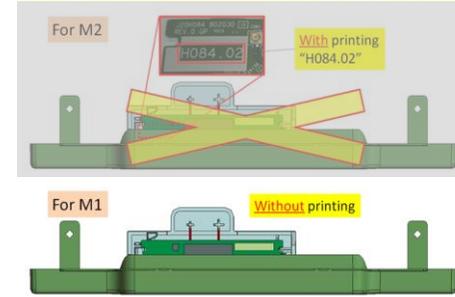
Don't scratch O/P with Bezel while installing.



Confirm Smart Core is assembled properly before tightening screw of Smart Core.



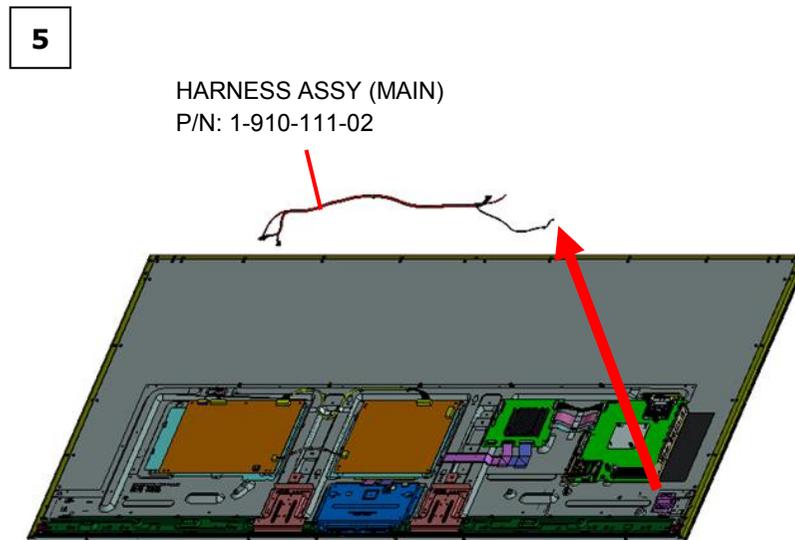
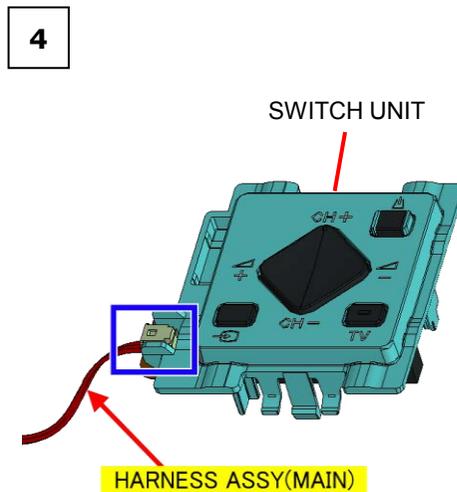
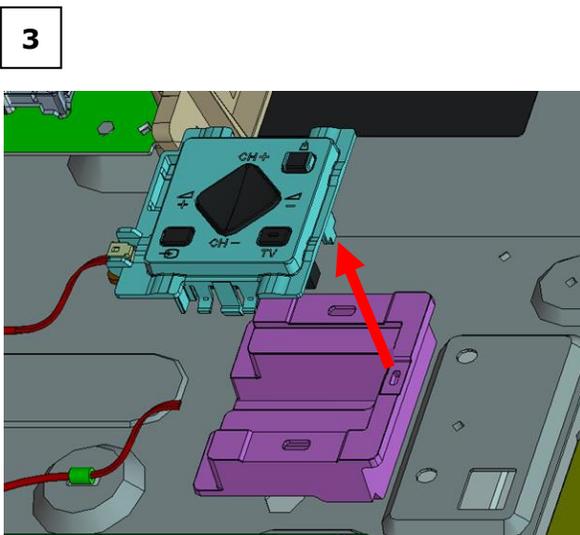
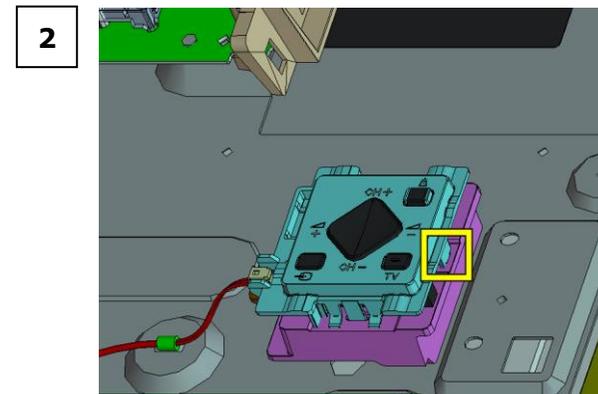
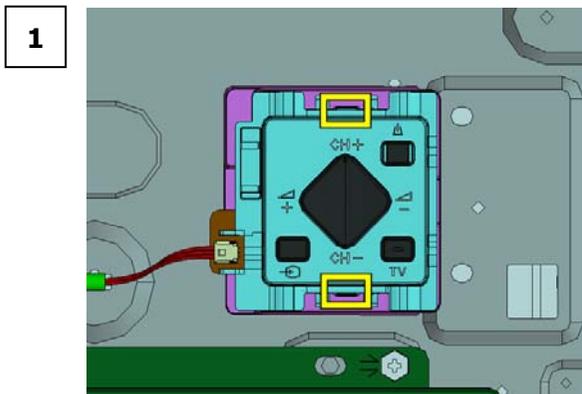
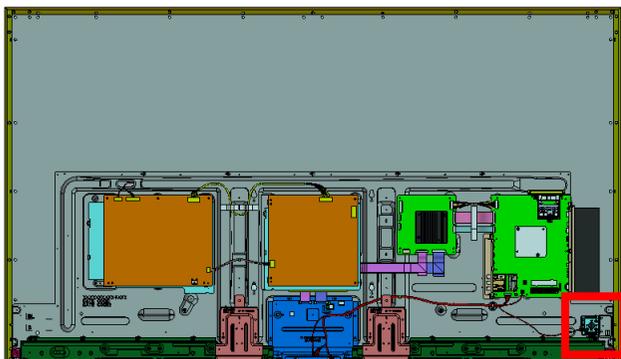
How to distinguish SC for M1 and M2



2 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

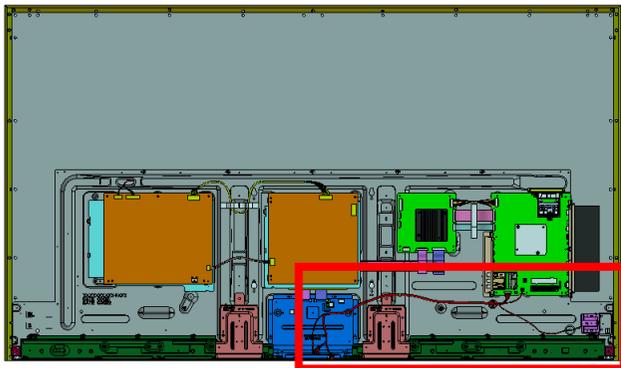
4. KD-75XD8505, FW-75XD8501

4-16. SWITCH UNIT AND HARNESS ASSY (MAIN)

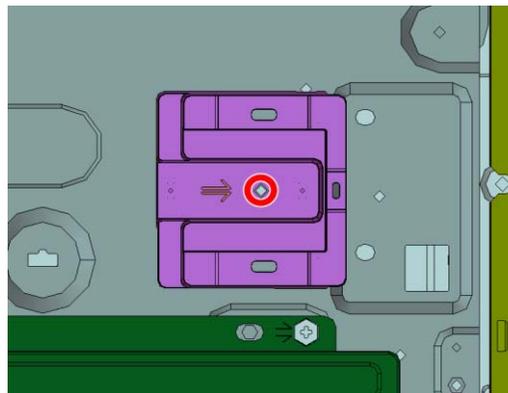


4. KD-75XD8505, FW-75XD8501

4-17. HOLDER SIDE SW(PDT M1)

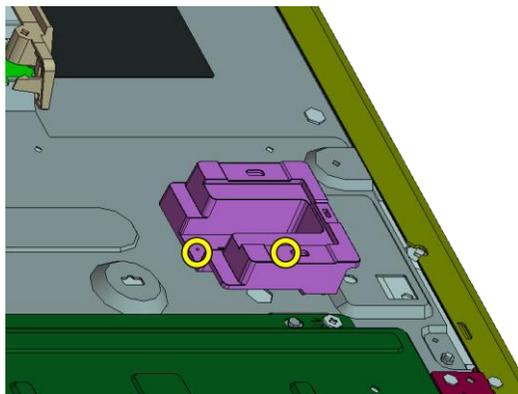


1

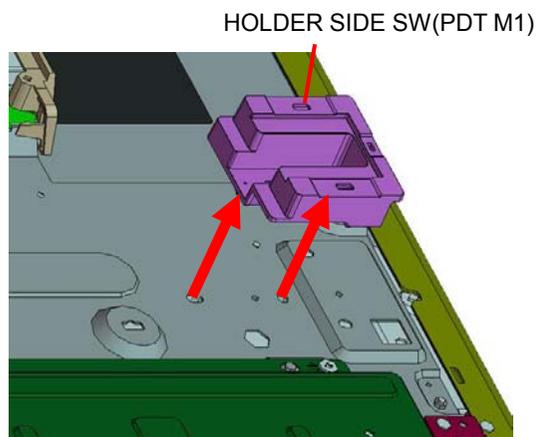


○ Screw (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

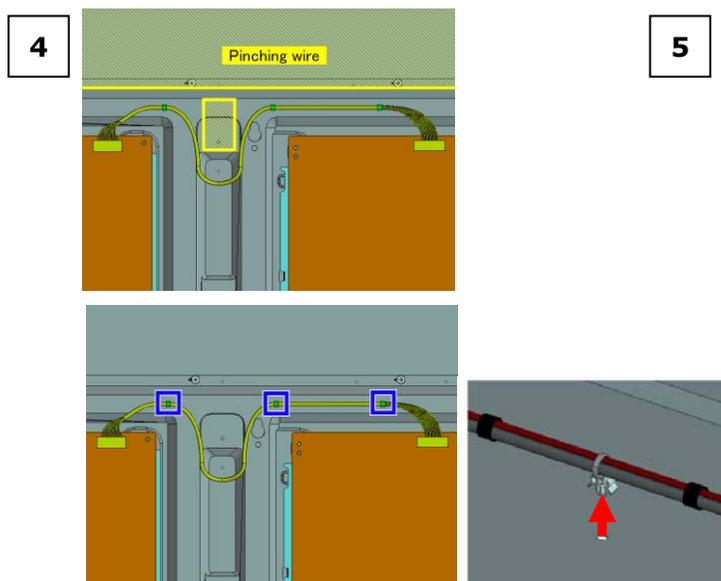
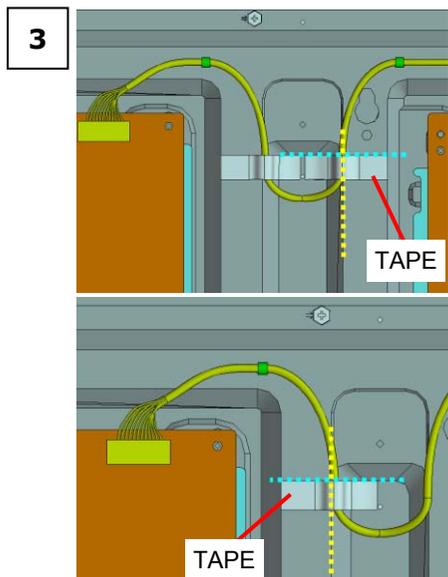
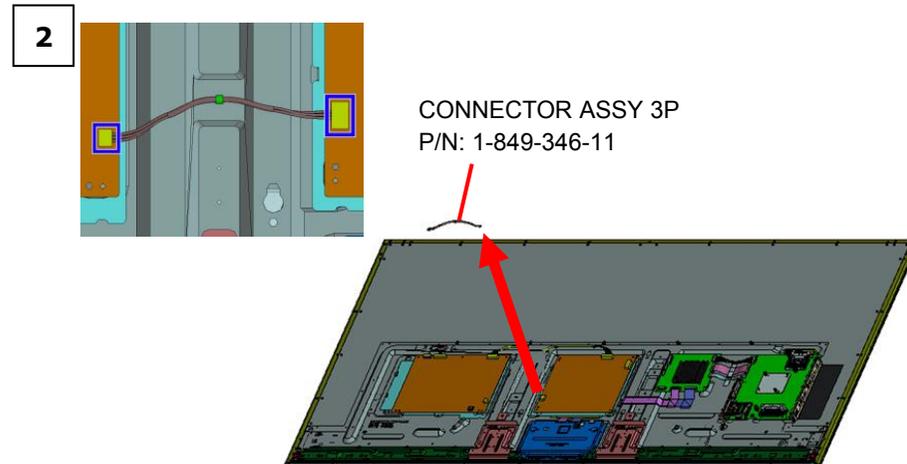
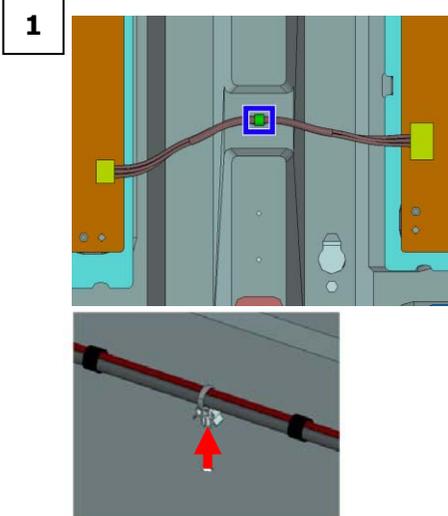
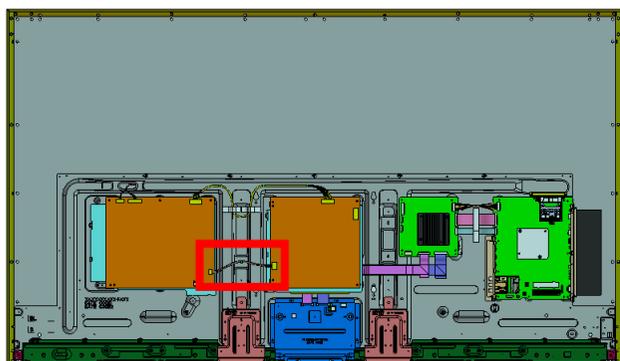


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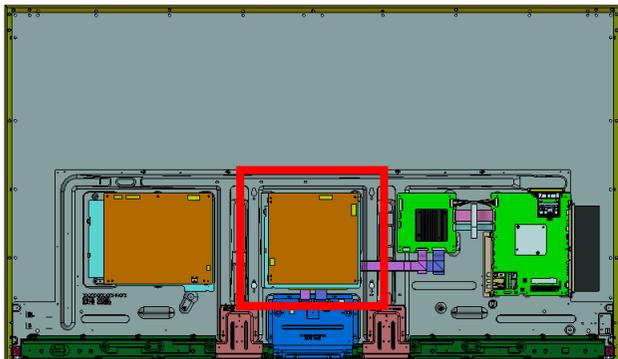
4. KD-75XD8505, FW-75XD8501

4-18. CONNECTOR ASSY 3P AND CONNECTOR ASSY 12P

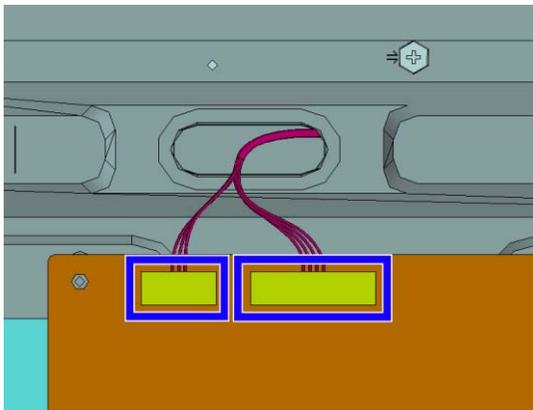


4. KD-75XD8505, FW-75XD8501

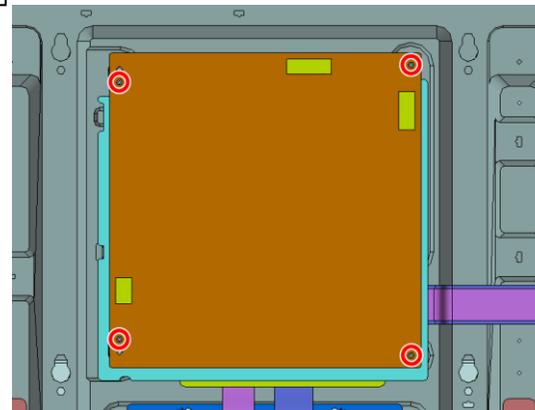
4-19. G1



1

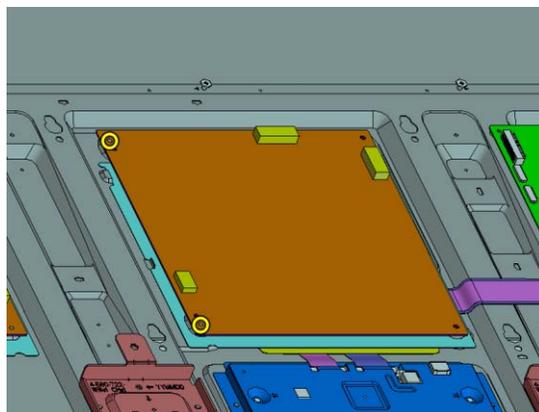


2

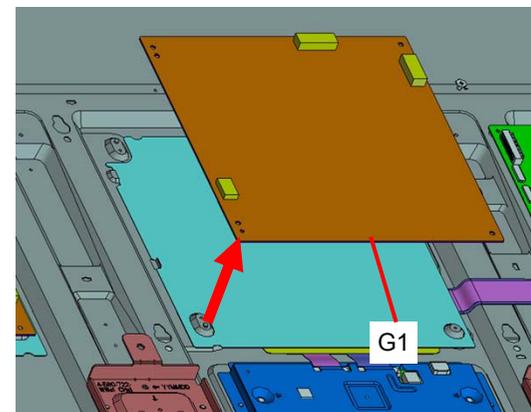


⊙ 4 screws (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

3

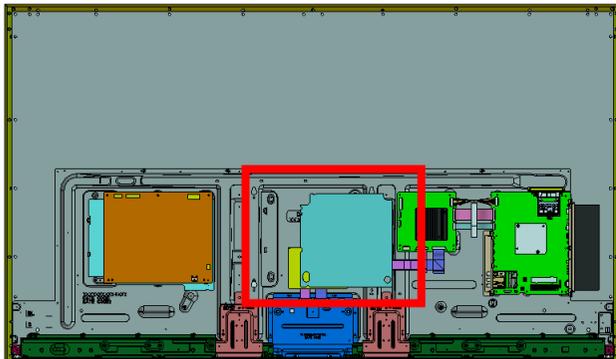


4



4. KD-75XD8505, FW-75XD8501

4-20. SHEET, INSULATION(PDT 3L SYS)



NOTE:

① Slide in

② Slide

① X: +1.5/-0
Install tabs in the half-cut emboss

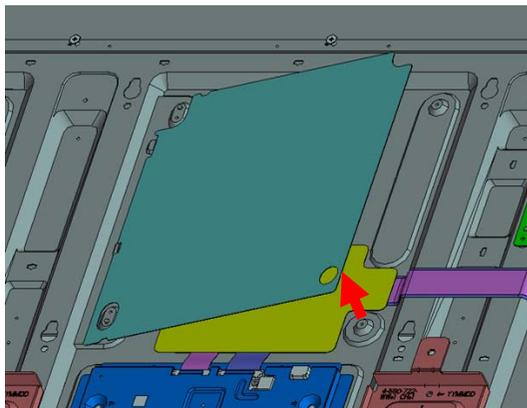
② X: +1.5/-0
Install cut of insulation sheet into Panel edge

Adhesive tape area

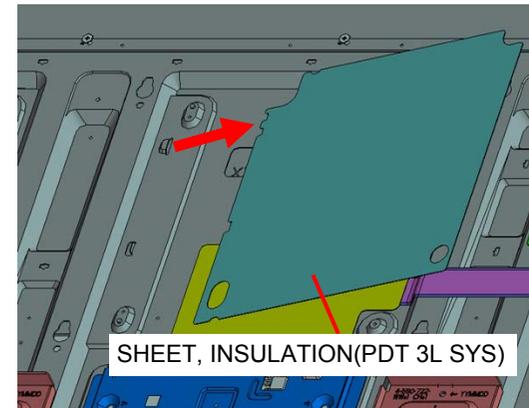
Caution

- When handling,
 - Be sure not to touch adhesive tape area.
- After installing,
 - Be sure to push all of adhesive tape area to avoid peel off of "Sheet, Insulation".

1

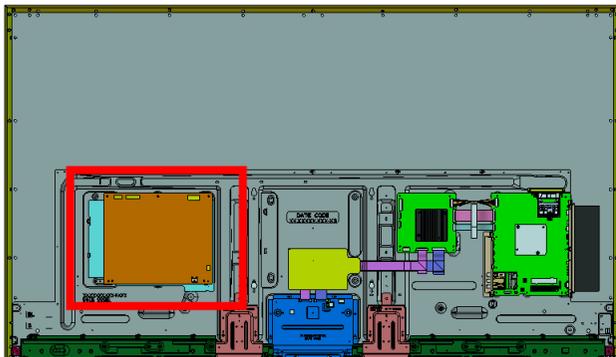


2

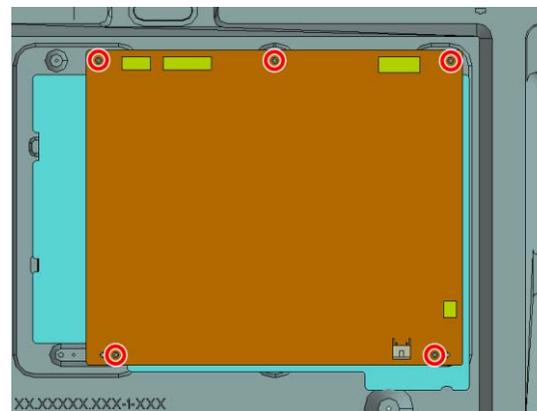


4. KD-75XD8505, FW-75XD8501

4-21. GL2

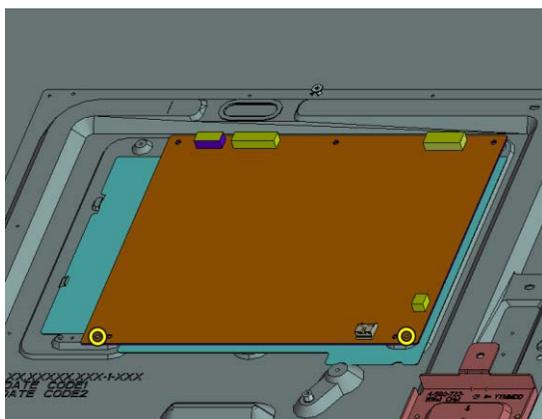


1

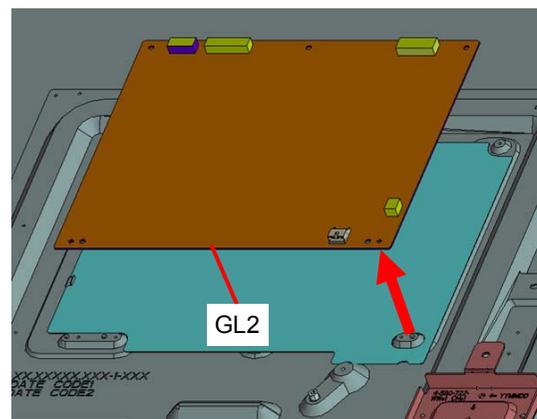


○ 5 screws (SCREW, +PSW M3X6 W12) P/N: 4-256-393-12

2

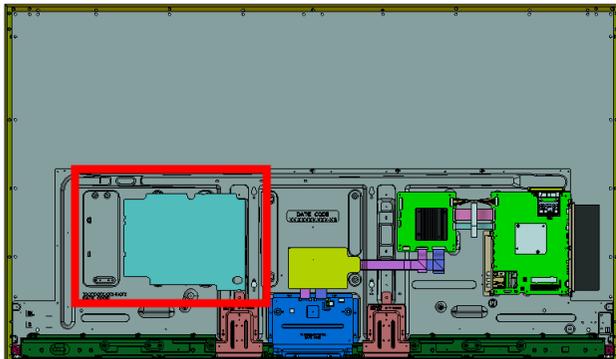


3

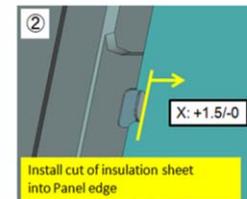
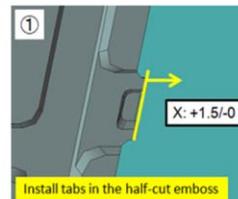
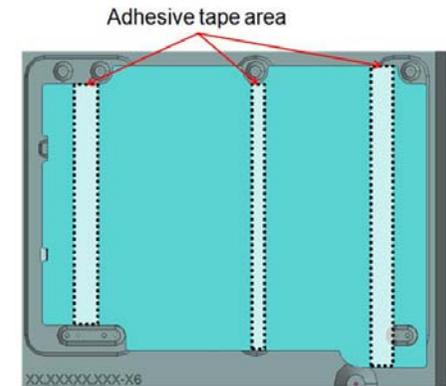
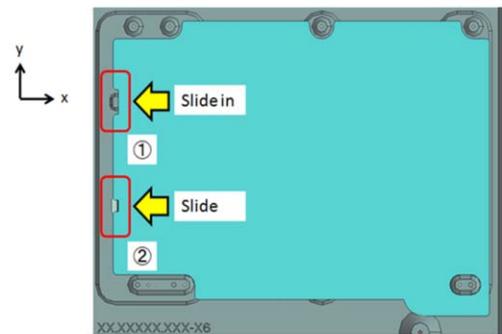


4. KD-75XD8505, FW-75XD8501

4-22. SHEET, INSULATION(PDT 3L)



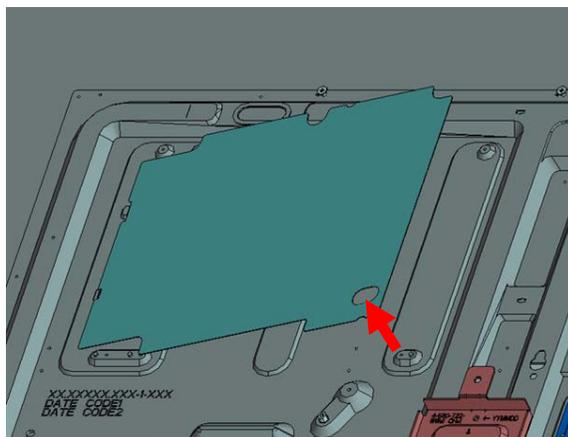
NOTE:



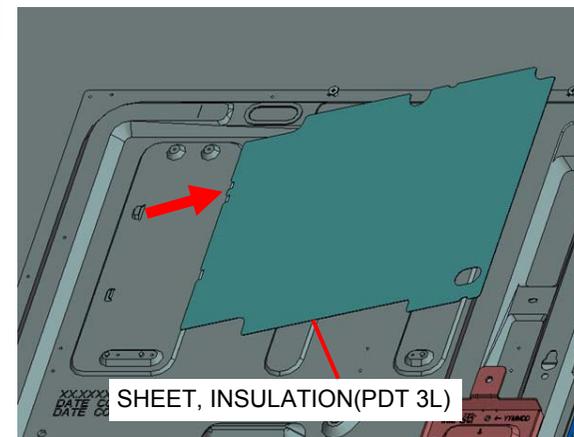
Caution

When handling,
 *Be sure not to touch adhesive tape area.
 After installing,
 *Be sure to push all of adhesive tape area to avoid peel off of "Sheet, Insulation".

1

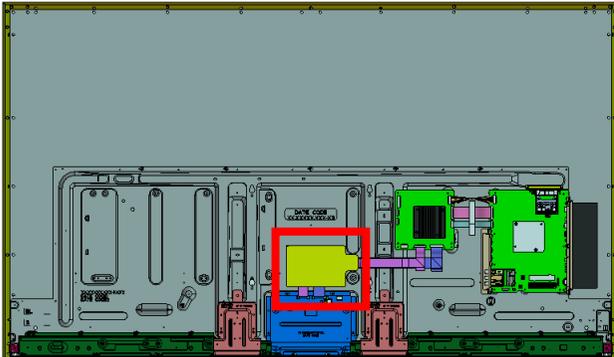


2



4. KD-75XD8505, FW-75XD8501

4-23. TAPE FFC (PDT 3L)



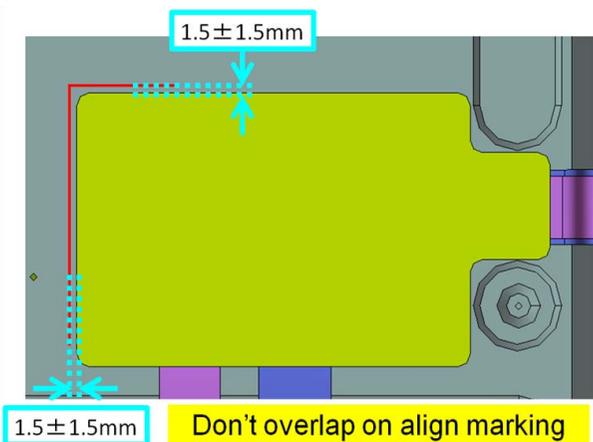
NOTE:

Adhesive tape area

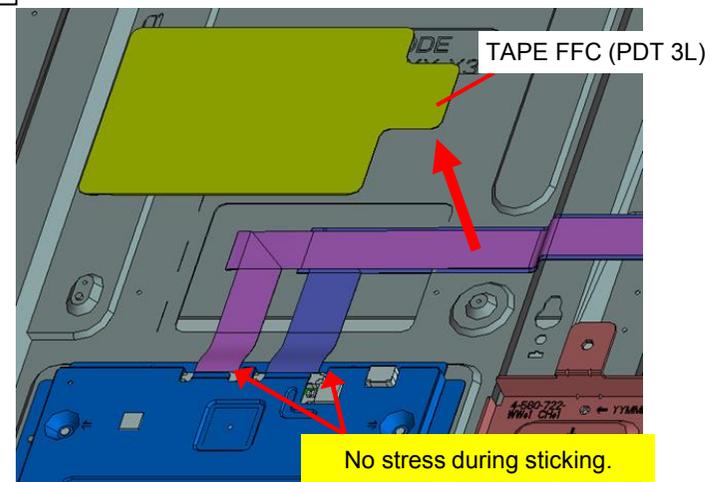
Caution

After installing,
 • Be sure to push all of adhesive tape area to avoid peel off of "TAPE FFC".
 • Confirm it is not floating.

1

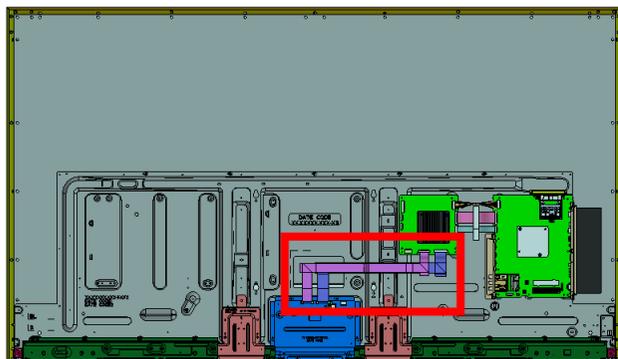


2

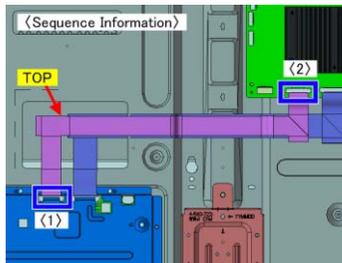


4. KD-75XD8505, FW-75XD8501

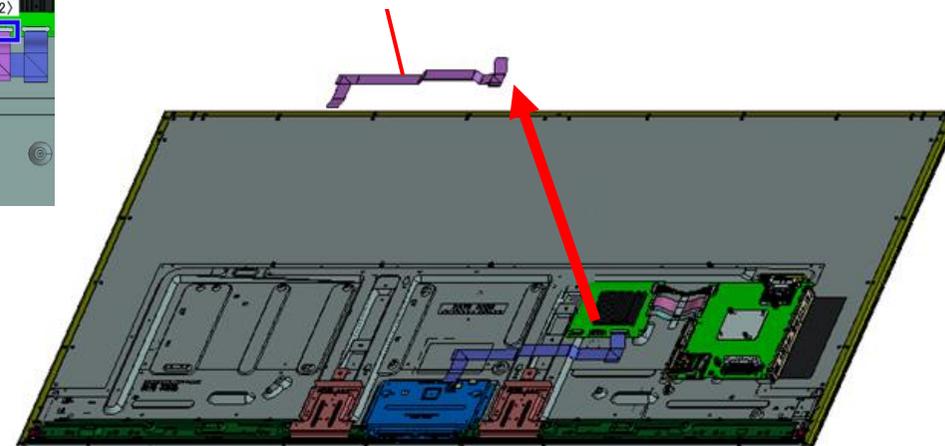
4-24. FLEXIBLE FLAT CABLE 41P AND FLEXIBLE FLAT CABLE 51P



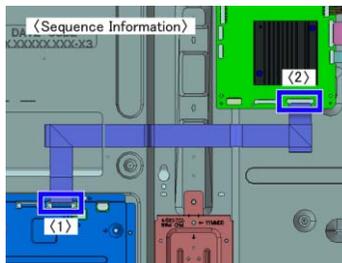
1



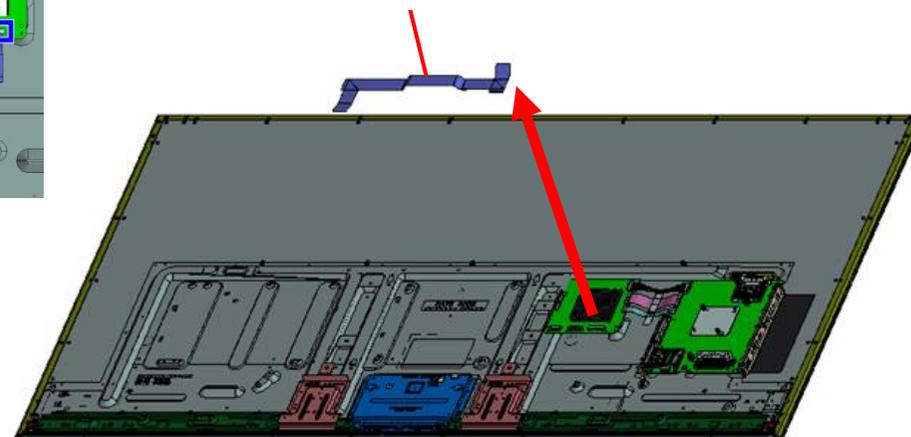
FLEXIBLE FLAT CABLE 41P
P/N: 1-849-343-11



2

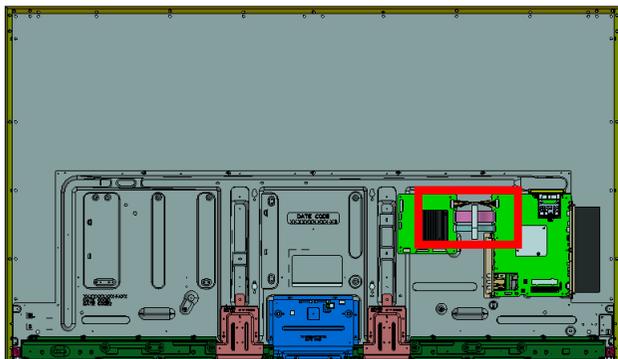


FLEXIBLE FLAT CABLE 51P
P/N: 1-849-344-11

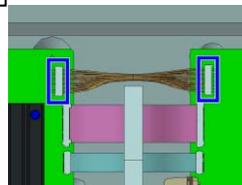


4. KD-75XD8505, FW-75XD8501

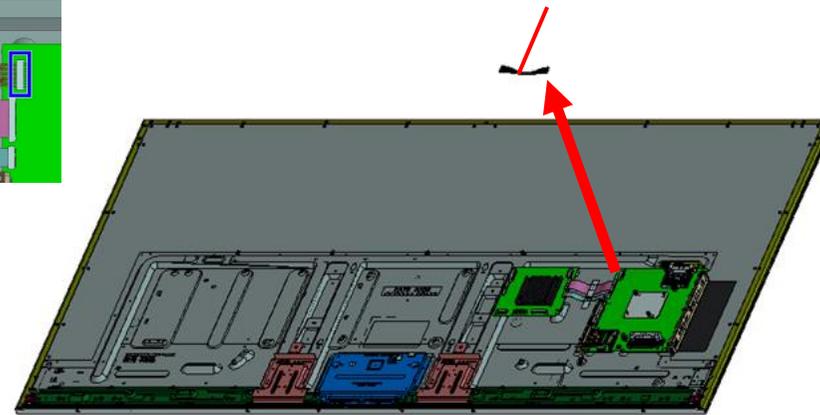
4-25. CONNECTOR ASSY 20P AND TAPE AND FLEXIBLE FLAT CABLE 51P



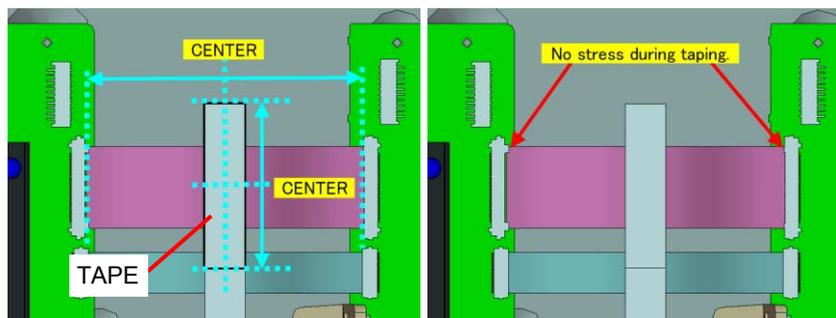
1



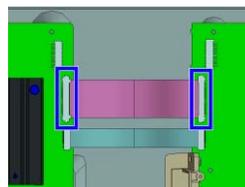
CONNECTOR ASSY 20P
P/N: 1-910-111-22



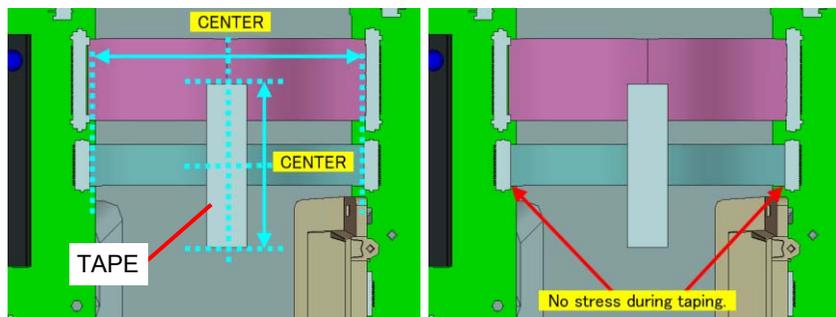
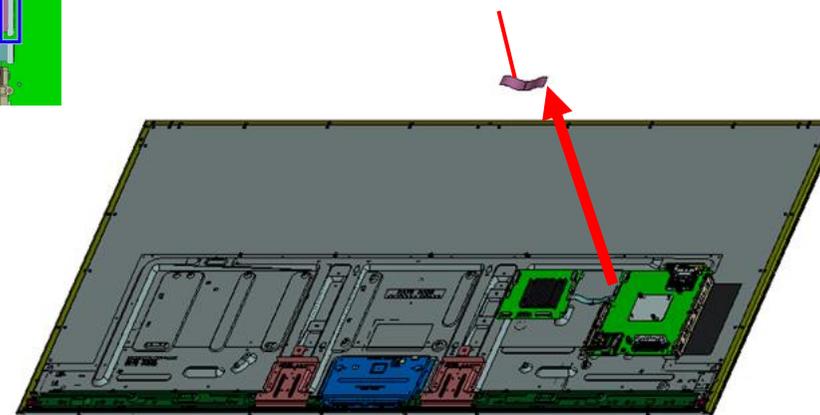
2



3

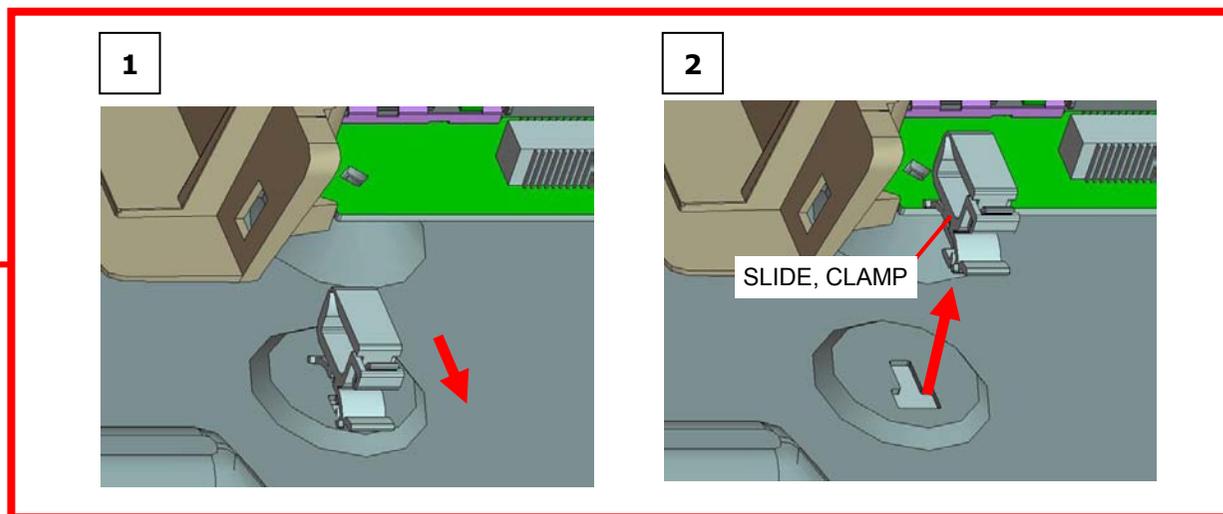
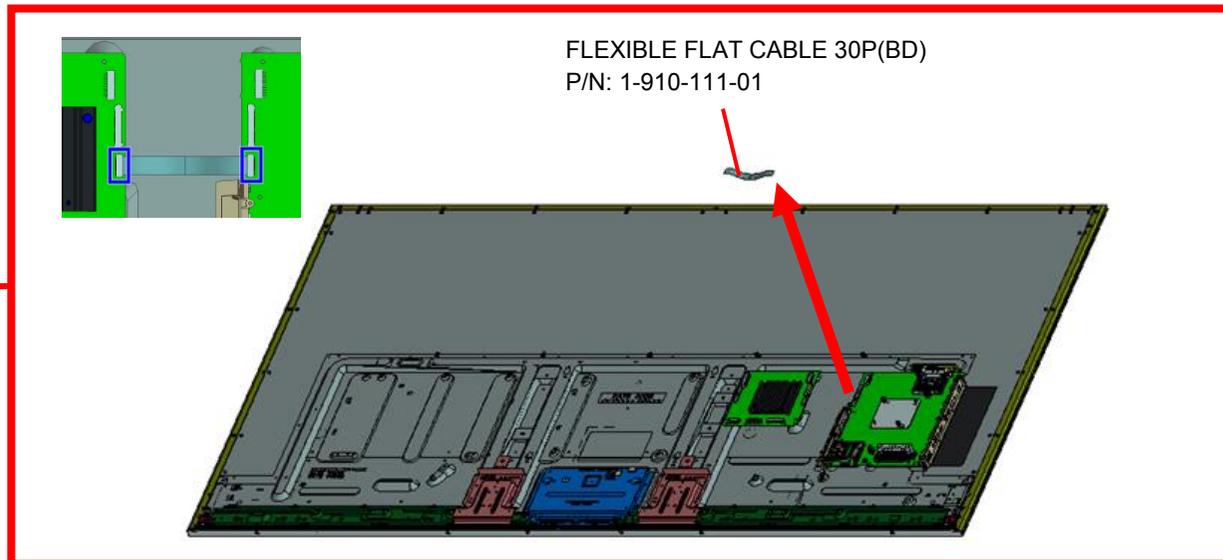
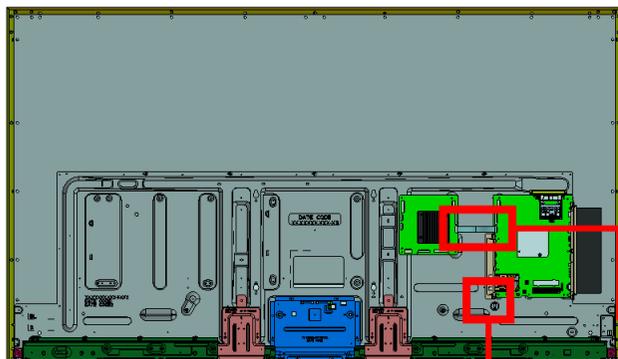


FLEXIBLE FLAT CABLE 51P
P/N: 1-849-345-11



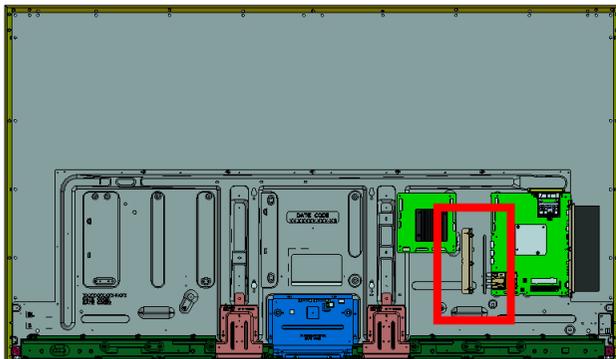
4. KD-75XD8505, FW-75XD8501

4-26. FLEXIBLE FLAT CABLE 30P(BD) AND SLIDE, CLAMP



4. KD-75XD8505, FW-75XD8501

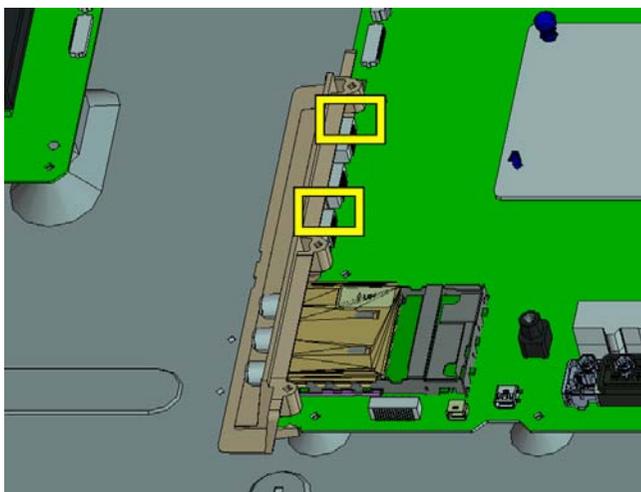
4-27. BRACKET, INSIDE (PDT 3L)



1



2



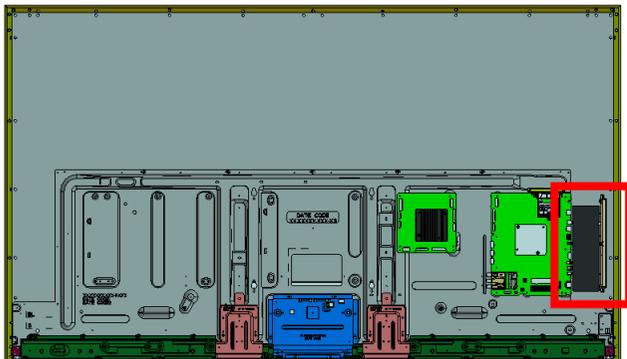
3



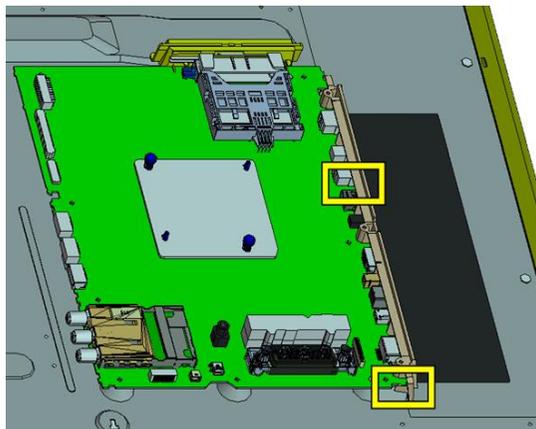
BRACKET, INSIDE (PDT 3L)

4. KD-75XD8505, FW-75XD8501

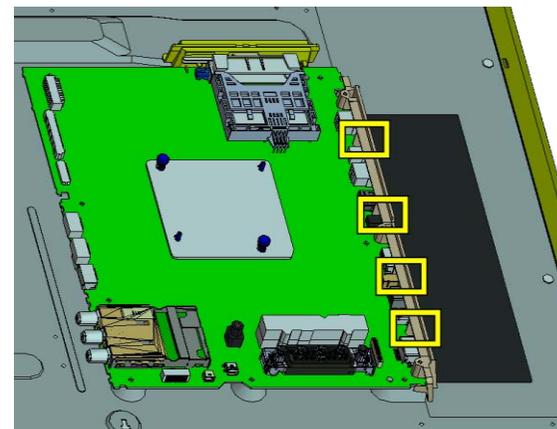
4-28. BRACKET, SIDE (PDT 3L) AND CUSHION, PORON



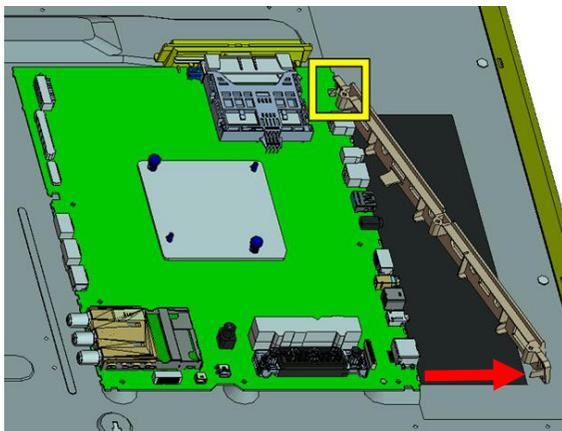
1



2

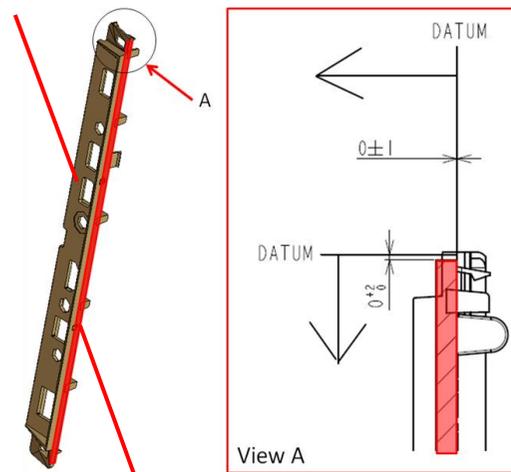


3



4

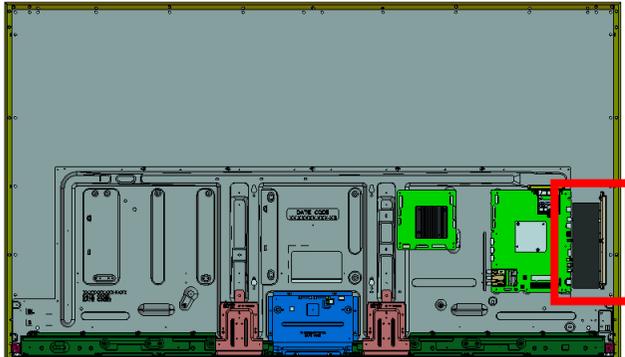
BRACKET, SIDE (PDT 3L)



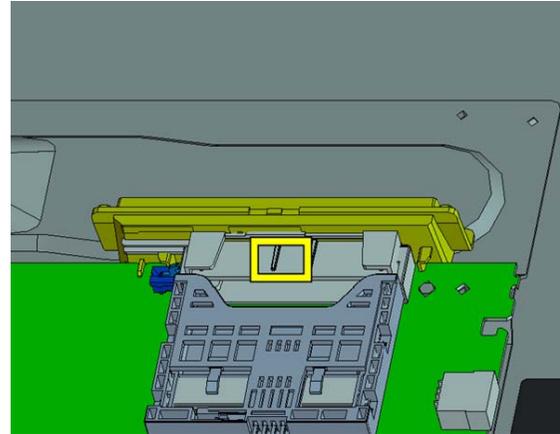
CUSHION, PORON

4. KD-75XD8505, FW-75XD8501

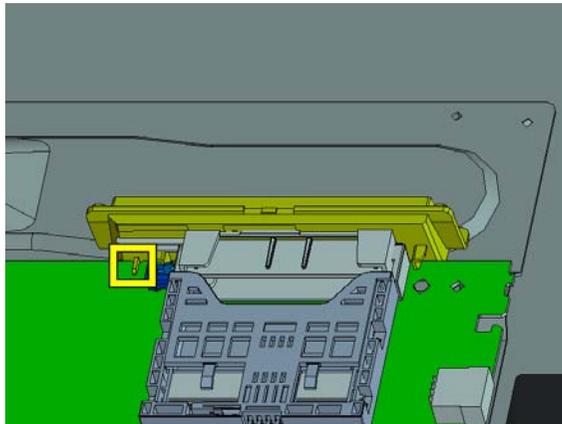
4-29. BRACKET, TOP FL (MOLD)



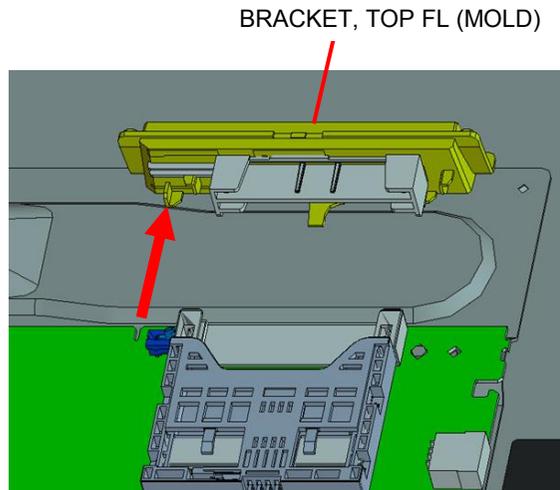
1



2

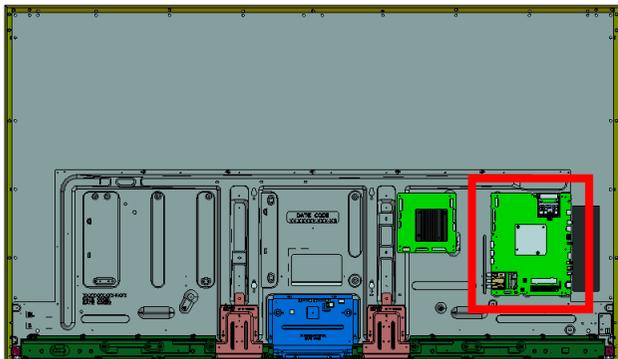


3

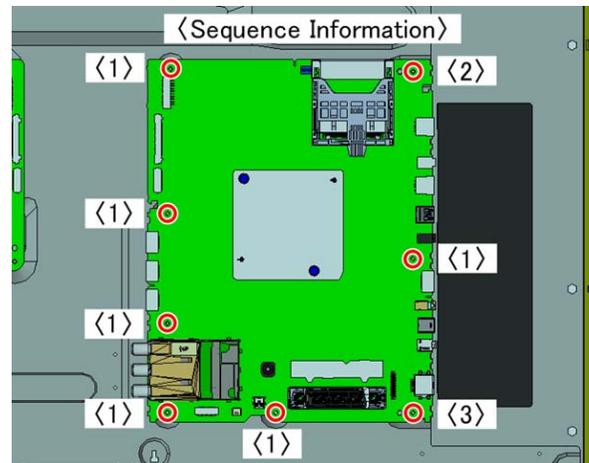


4. KD-75XD8505, FW-75XD8501

4-30. BM1

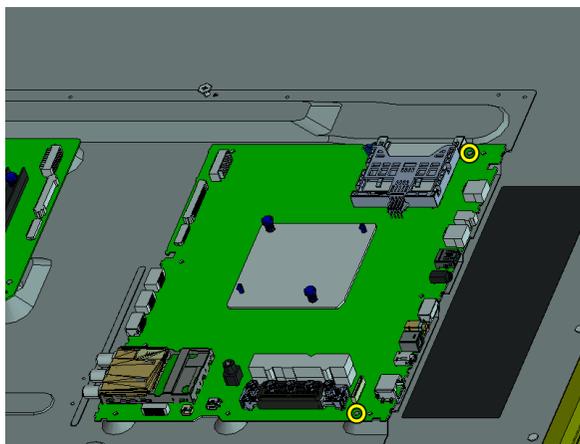


1

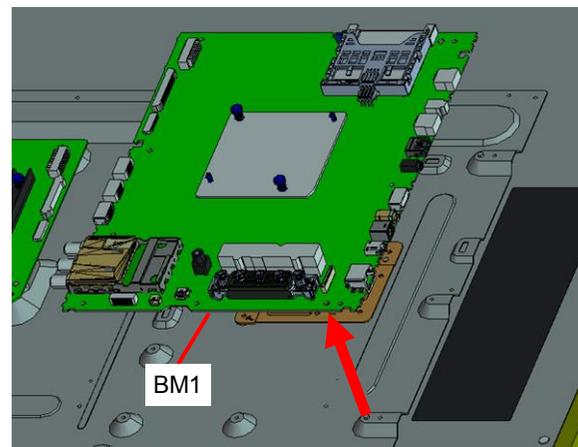


8 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

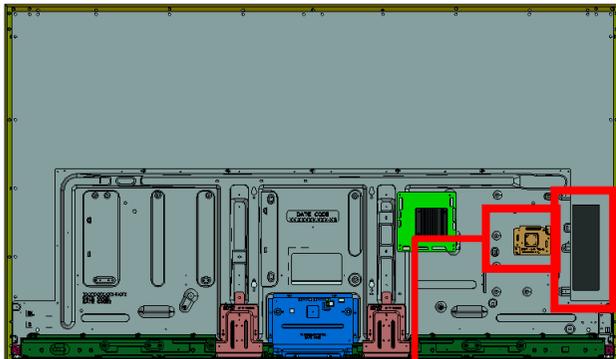


3



4. KD-75XD8505, FW-75XD8501

4-31. LABEL, SIDE TERMINAL (PDT 3L) AND SHEET, THERMAL(BM)



When you do panel replacement, please also replace this part at the same time to a new one.

0(0,+1) marking

0(0,+1)

marking

①

②

Label

LABEL, SIDE TERMINAL (PDT 3L)

Align the label to the marking,
①corner edge
②left side line

To prevent bubbles from entering,
Please stroked the label from the
top side to bottom side.

Caution: Don't damage to LABEL. Scratch, deform, dirty etc....

2.0±2.0mm 2.0±2.0mm

SHEET, THERMAL(BM)

Don't overlap on align marking

Be careful the side of SHEET THERMAL.

Separator side

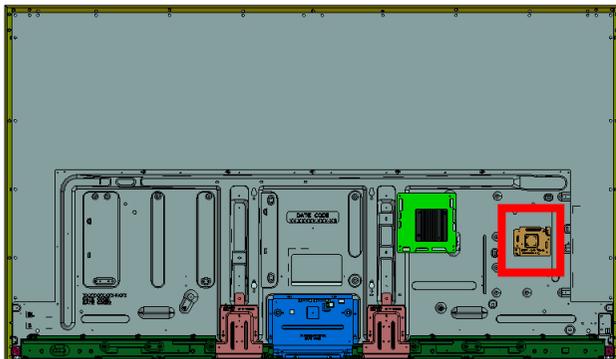
Don't confuse the (BAF) and (BM).

Thick Thin

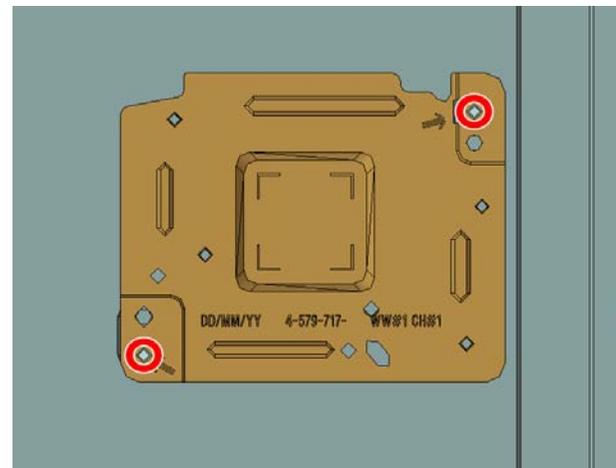
SHEET, THERMAL (BAF) SHEET, THERMAL (BM)

4. KD-75XD8505, FW-75XD8501

4-32. PLATE, MAIN S(PDT)

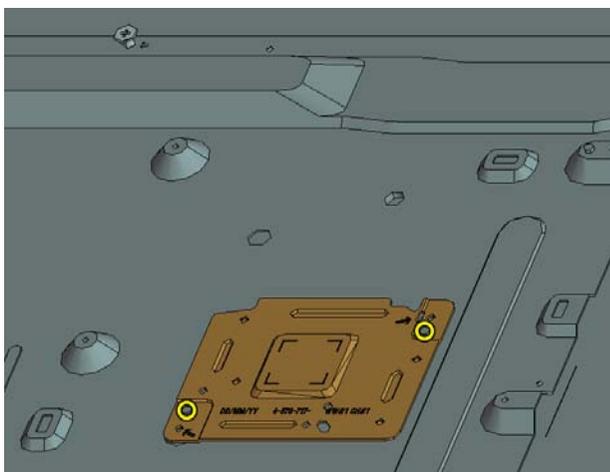


1

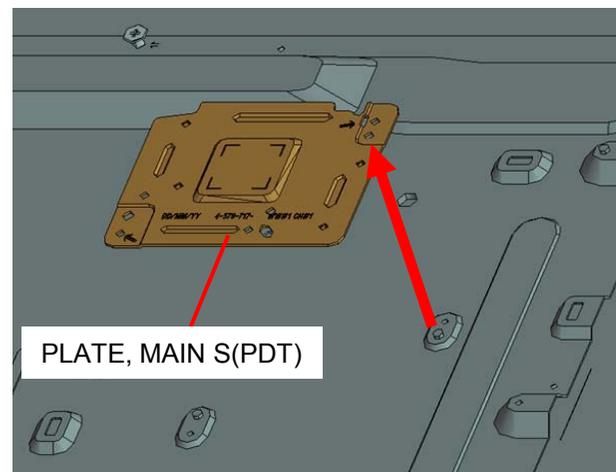


2 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

2

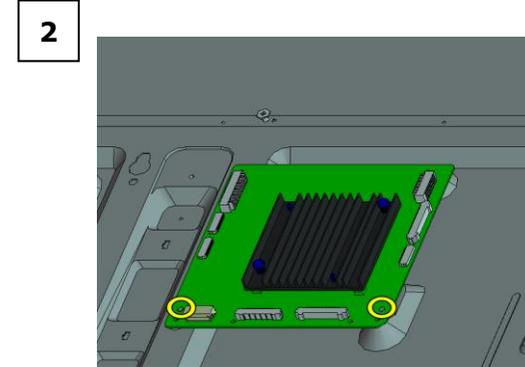
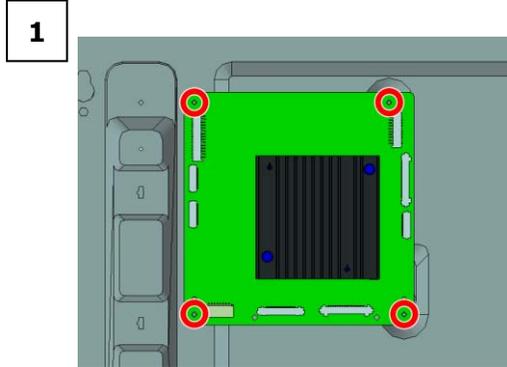
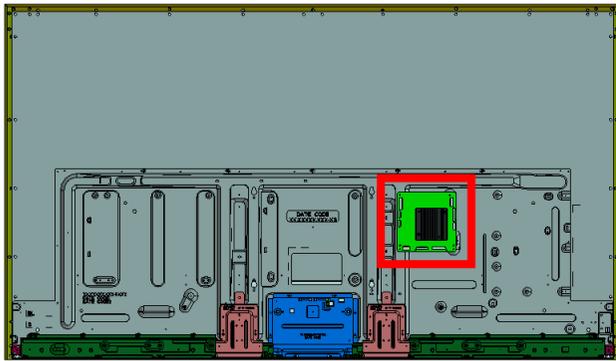


3

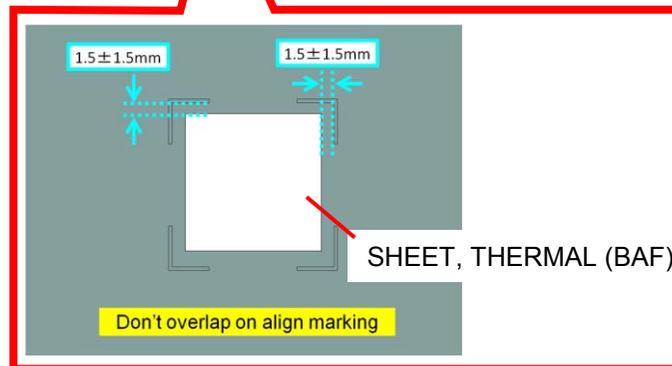
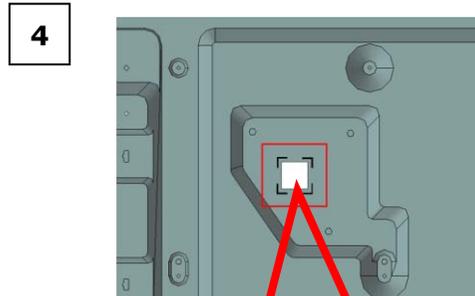
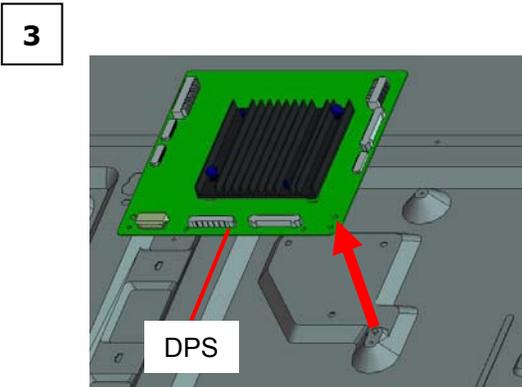


4. KD-75XD8505, FW-75XD8501

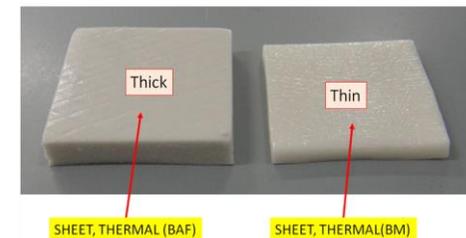
4-33. DPS AND SHEET, THERMAL (BAF)



4 screws (SCREW, +PSW M3X6) P/N: 4-472-518-11

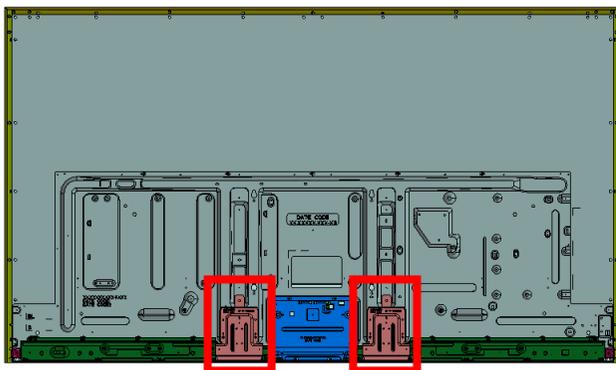


Don't confuse the (BAF) and (BM).

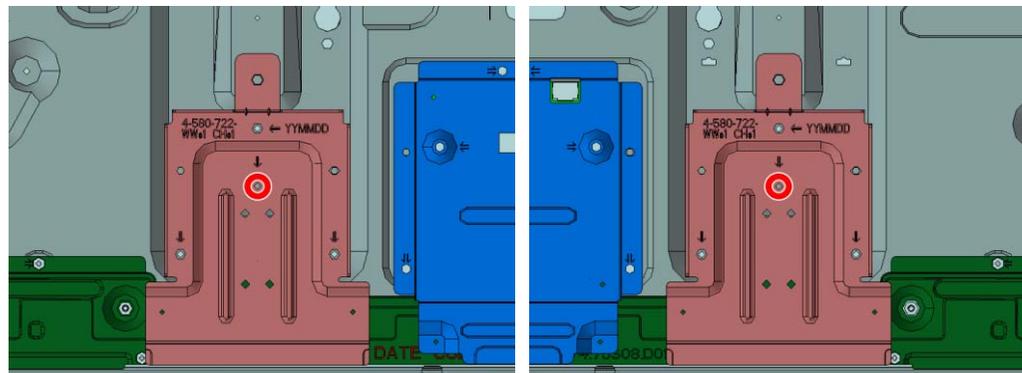


4. KD-75XD8505, FW-75XD8501

4-34. BRACKET, STD(3L_PDT)

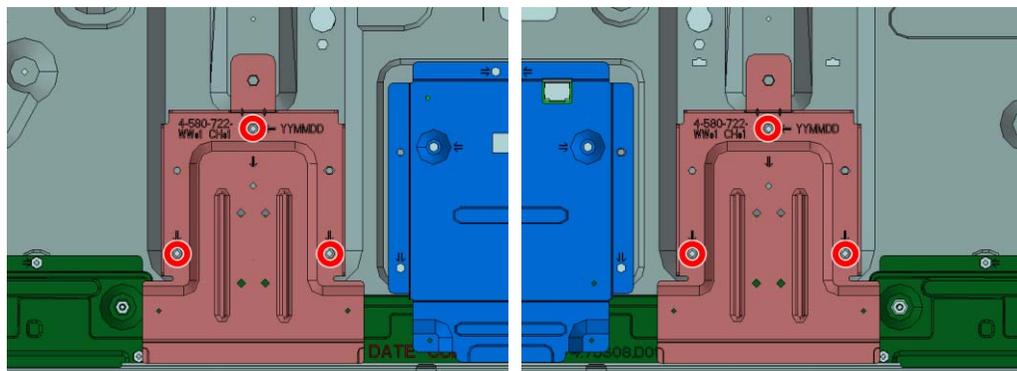


1



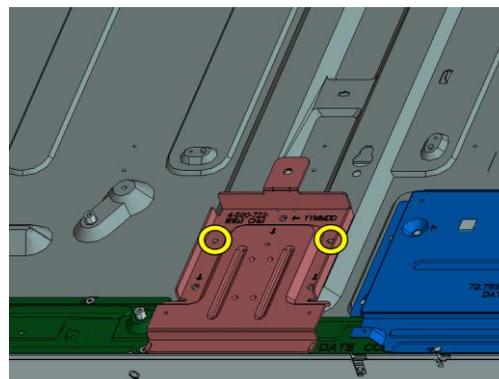
○ 2 screws (PULLEY, STAND (HWI)) P/N: 4-534-964-01

2

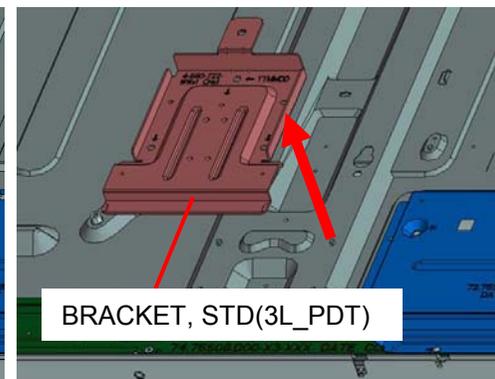


○ 6 screws (SCREW, +PSW M4X10) P/N: 4-159-298-01

3

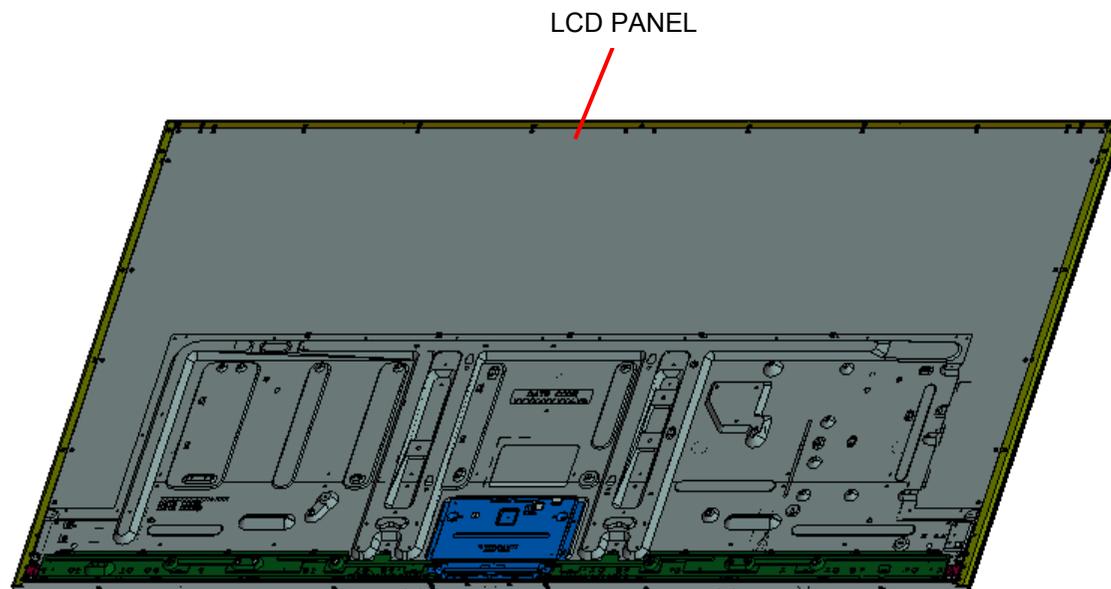


4



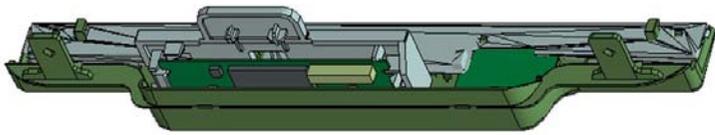
4. KD-75XD8505, FW-75XD8501

4-35. LCD PANEL

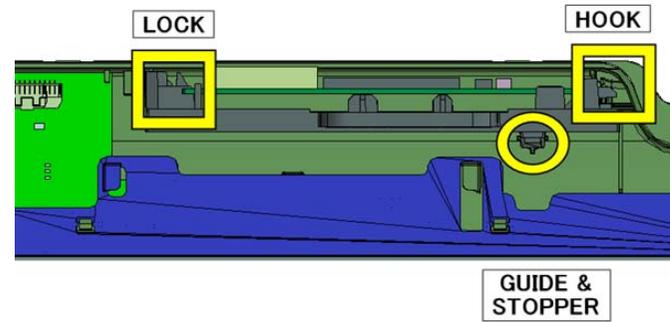


5. SMART CORE (M)

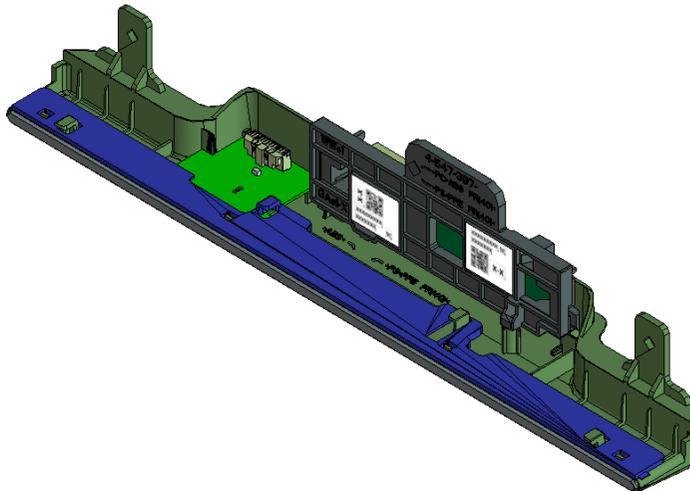
5-1. BRACKET, WIFI ASSY



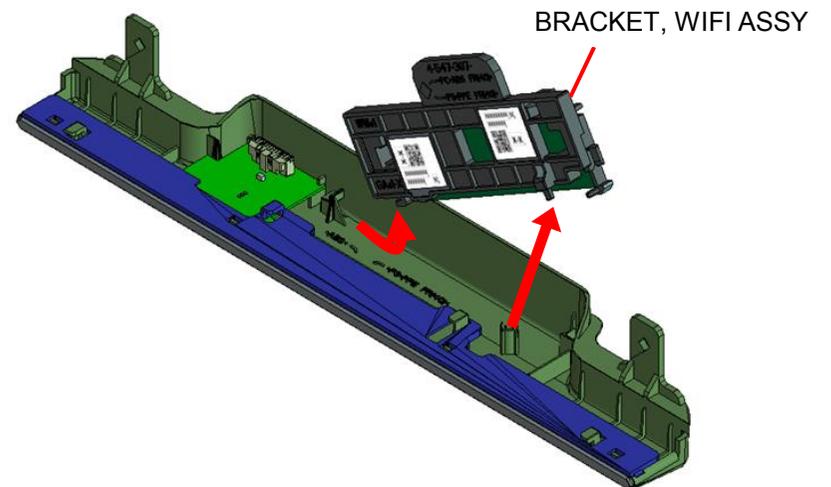
1



2

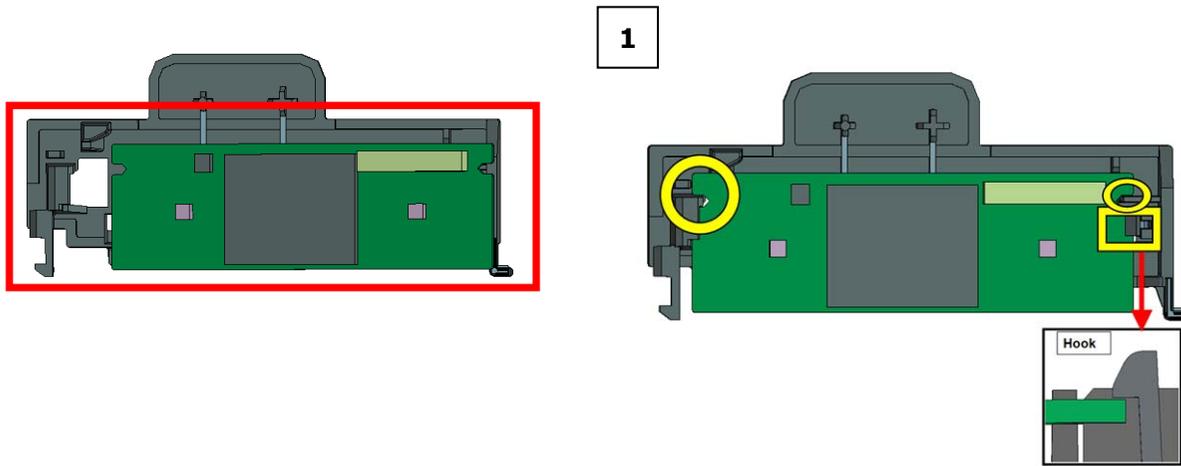


3



5. SMART CORE (M)

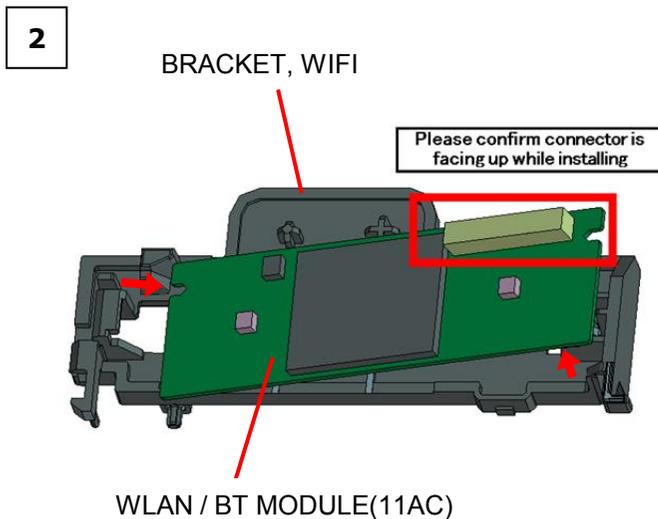
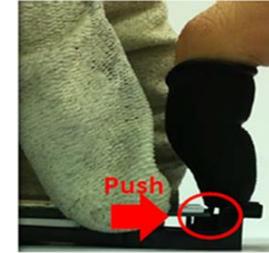
5-2. WLAN / BT MODULE(11AC) AND BRACKET, WIFI



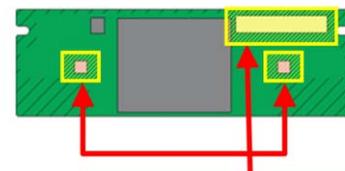
NOTE:

Please push hook with force ≤ 5.0 N to X-Direction while installing WLAN module

*WLAN/BT module is confirmed locked when click sound is heard.



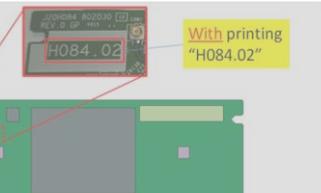
NOTE:



Caution!
Avoid to touch on this components and connector

How to distinguish PWB for M1 and M2

For M2
1-458-912-1*



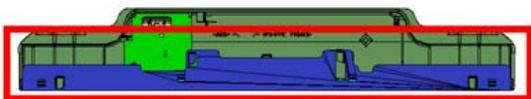
For M1
1-458-853-1*



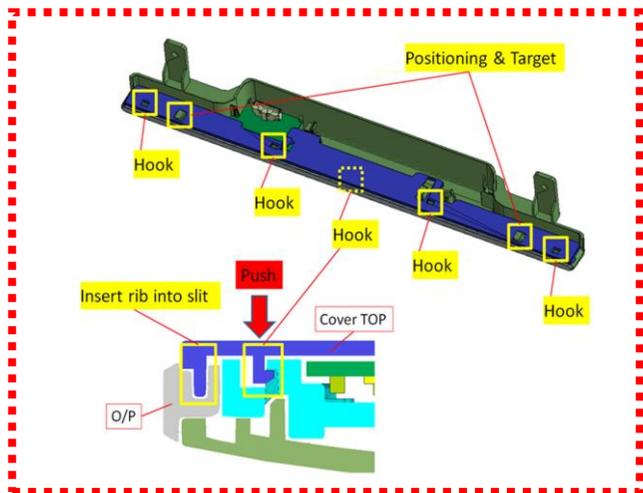
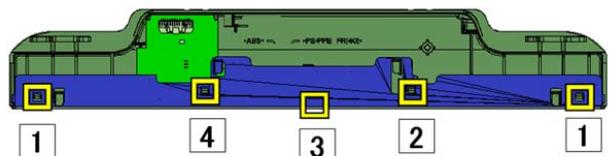
For This Model

5. SMART CORE (M)

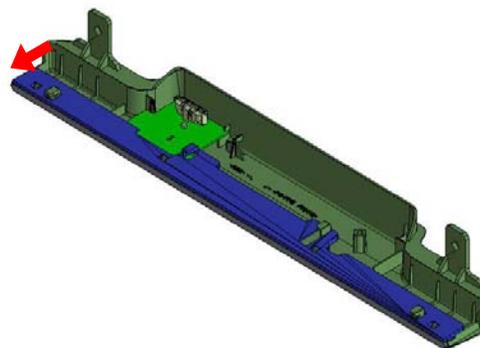
5-3. COVER, TOP



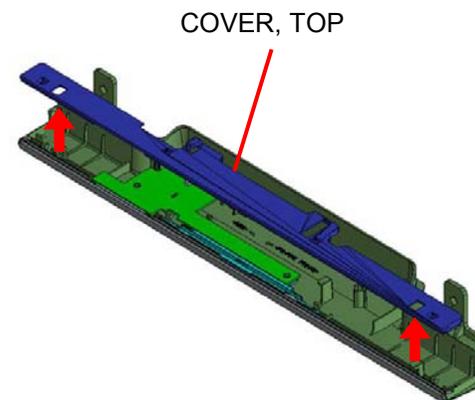
1



2

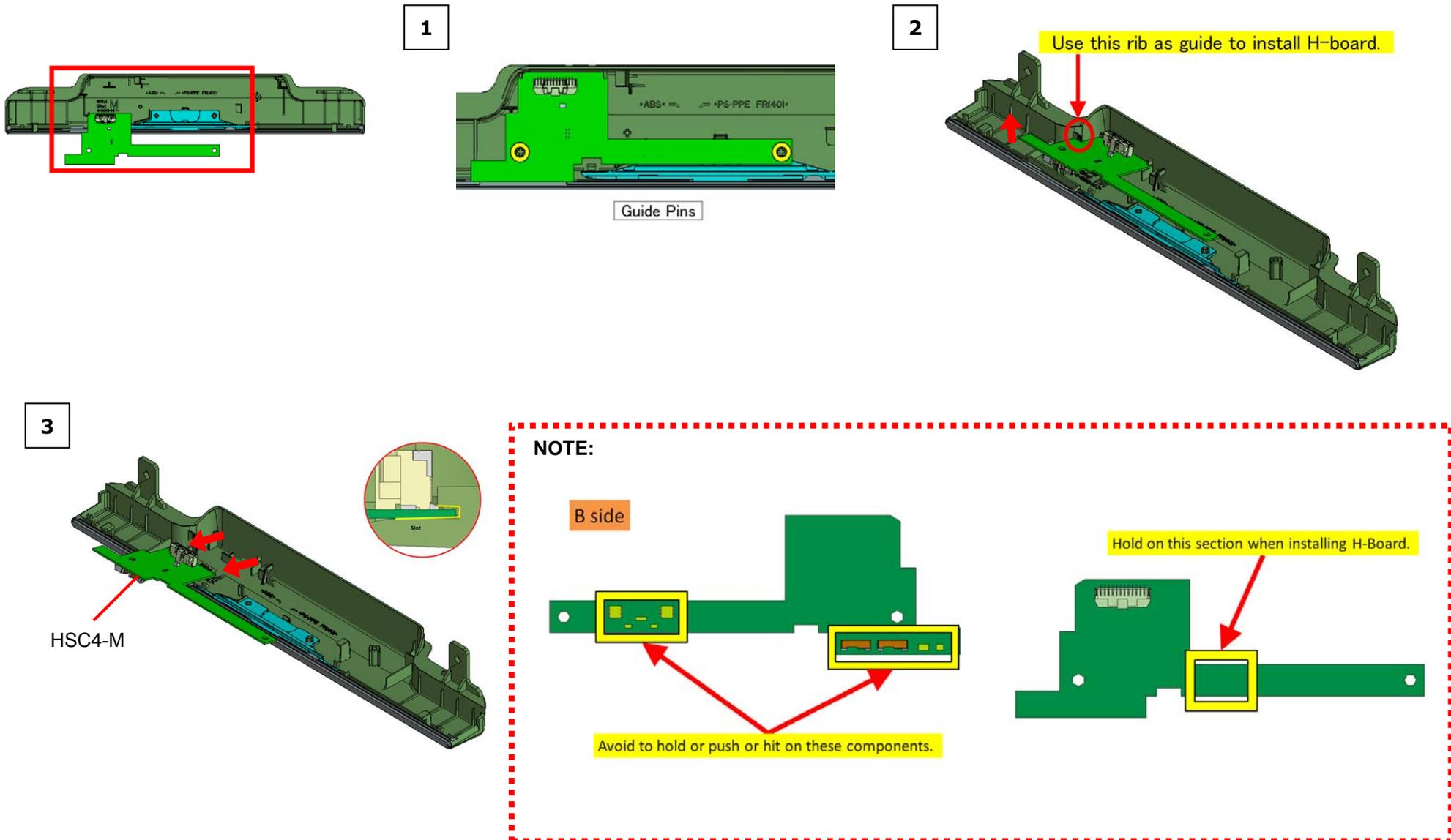


3



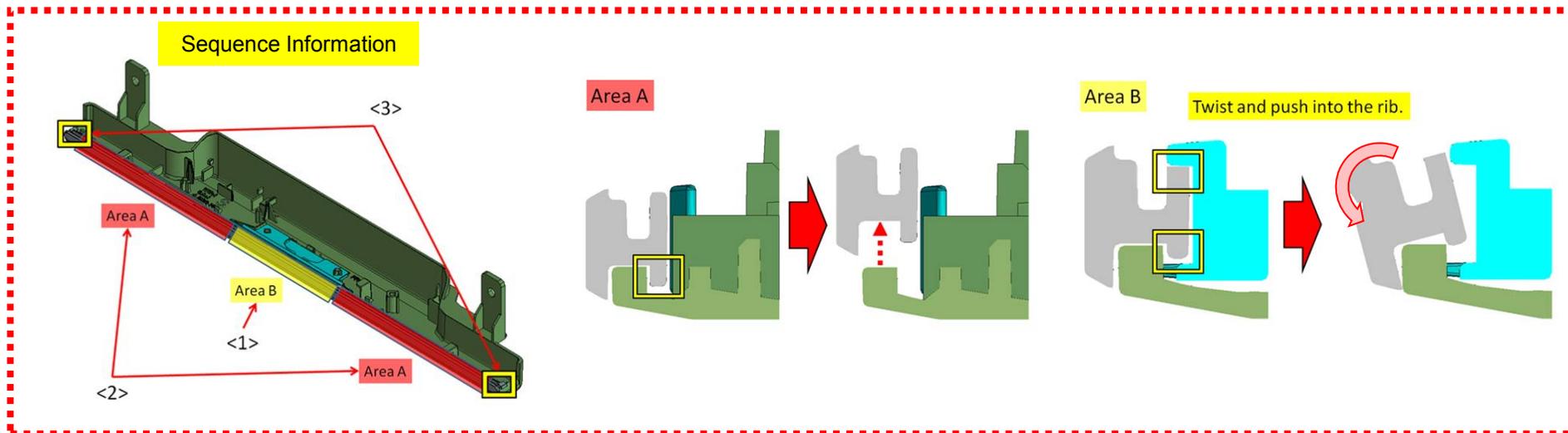
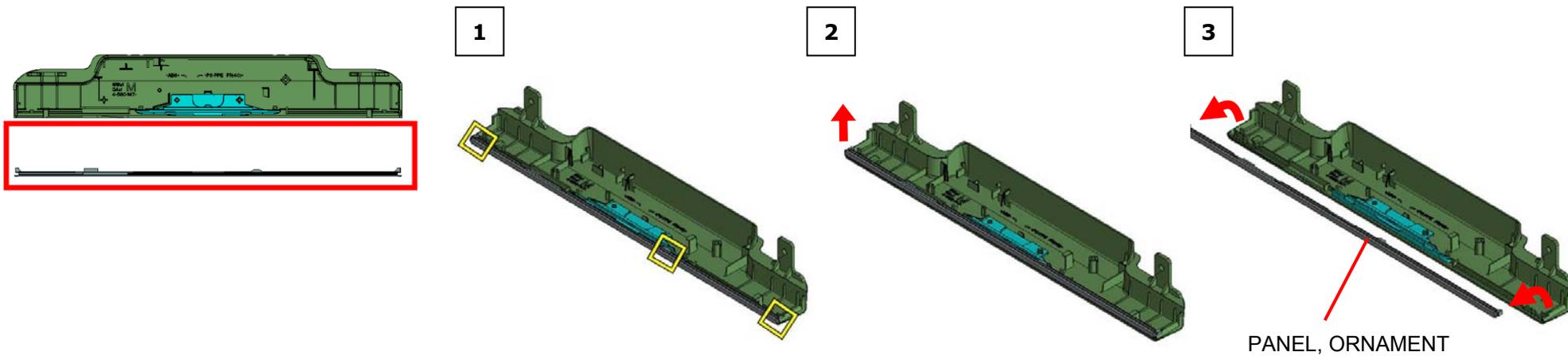
5. SMART CORE (M)

5-4. HSC4-M



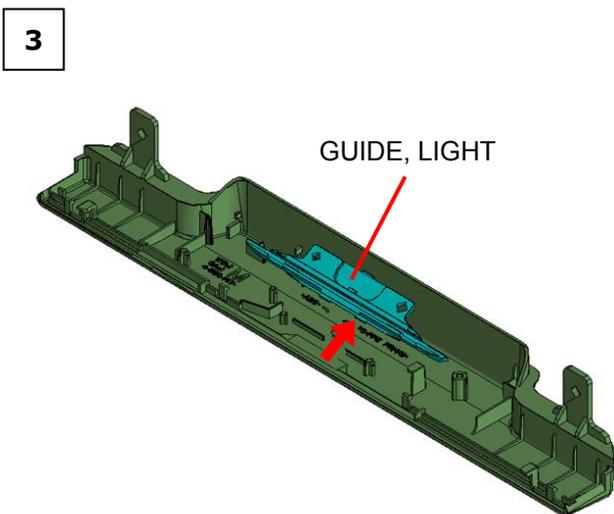
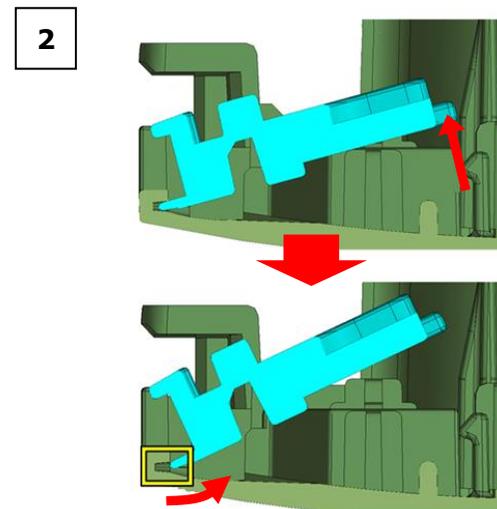
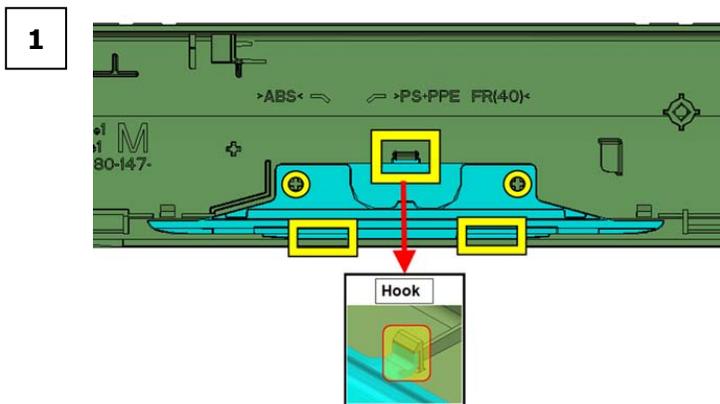
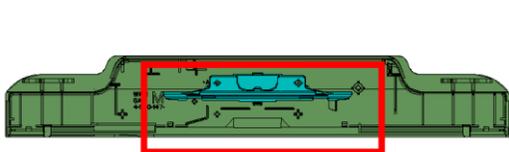
5. SMART CORE (M)

5-5. PANEL, ORNAMENT

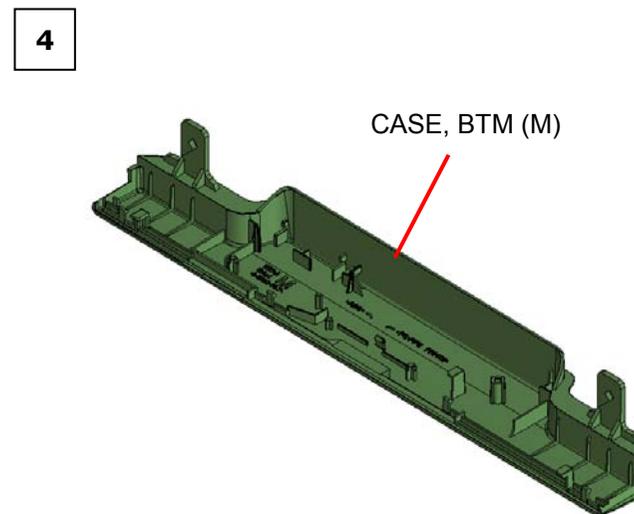
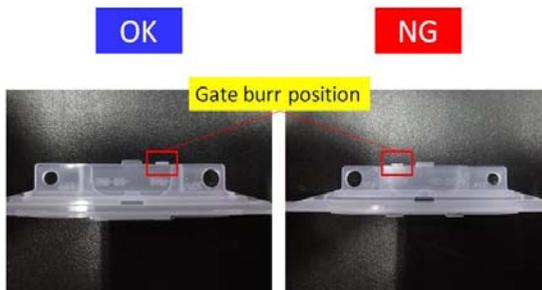


5. SMART CORE (M)

5-6. GUIDE, LIGHT AND CASE, BTM (M)



Be careful the direction of GUIDE, LIGHT.



EXPLODED VIEWS

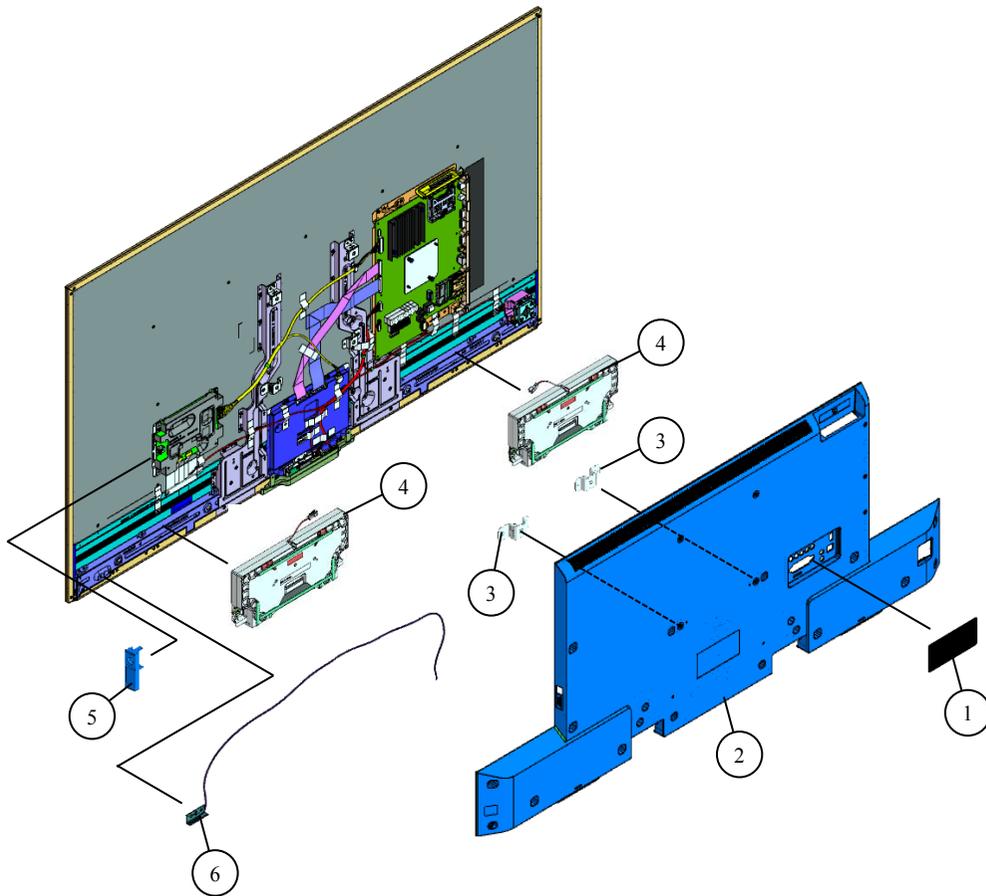
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

The components identified by mark \square contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

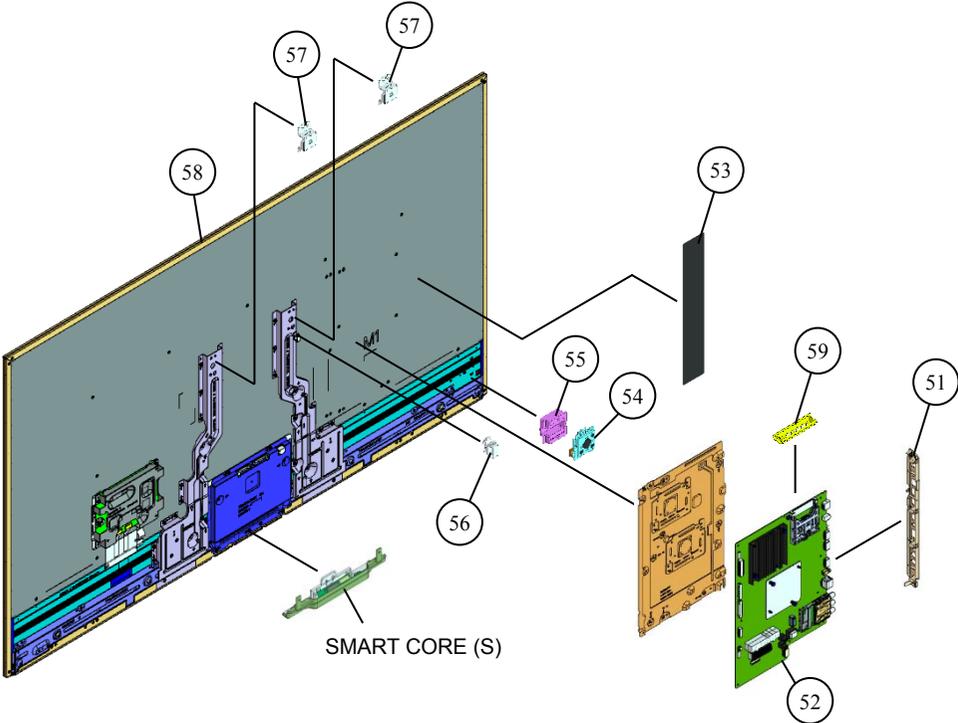
REAR COVER



REF. No.	PART No.	DESCRIPTION	MARK
1	4-585-133-01	LABEL, REAR TERMINAL (PDT M1)	
2	4-584-427-01	REAR COVER (M1_L_PDT) A	
* 3	4-579-927-01	BRACKET, VESA(L_PDT)	
4	1-859-138-11	SP-BOX ASSY, W25(L)-E	
5	4-580-890-01	BRACKET, DC JACK (PDT)	
6	1-754-957-11	BT ANTENNA	

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

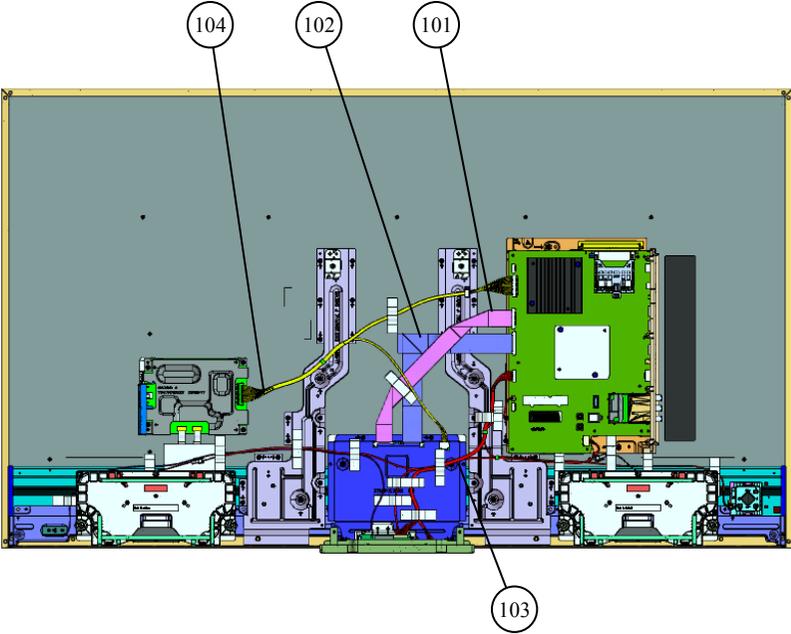
LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
51	4-580-885-41	BRACKET, SIDE (PDT M1)	
52	🔒 A-2094-430-A	COMPL SVC BMFW2_EU_CI_S_A	XD8501
52	🔒 A-2094-428-A	COMPL SVC BMFW2_EU_CI_A	XD8505/8577/ 8588/8599
53	4-583-384-21	LABEL, SIDE TERMINAL (PDT M1)	
54	1-798-511-22	SWITCH UNIT (SM-G-WW)	
*	55	4-580-869-01	HOLDER SIDE SW(PDT M1)
*	56	2-650-770-21	SLIDE, CLAMP
*	57	4-486-590-01	BRACKET, VESA(MIA)
58	⚠ 1-812-193-11	LCD PANEL(W55QWMEB)	FOR BLACK
58	⚠ 1-812-192-11	LCD PANEL(W55QWMES)	FOR SILVER
59	4-546-441-11	BRACKET, TOP FL (MOLD)	

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

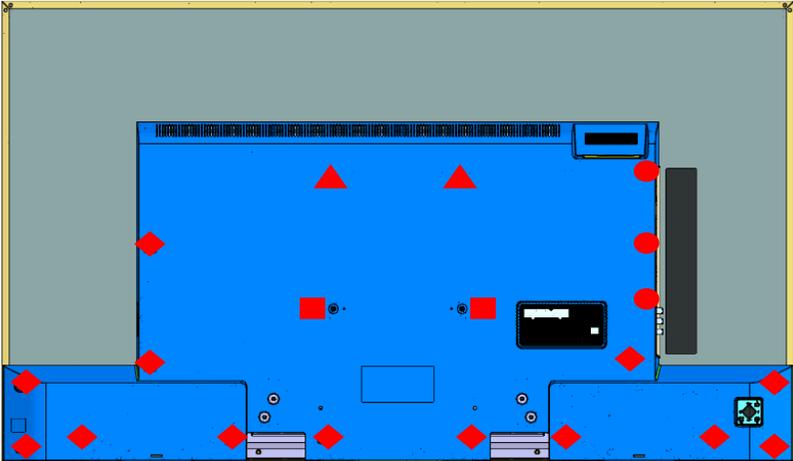
CONNECTORS



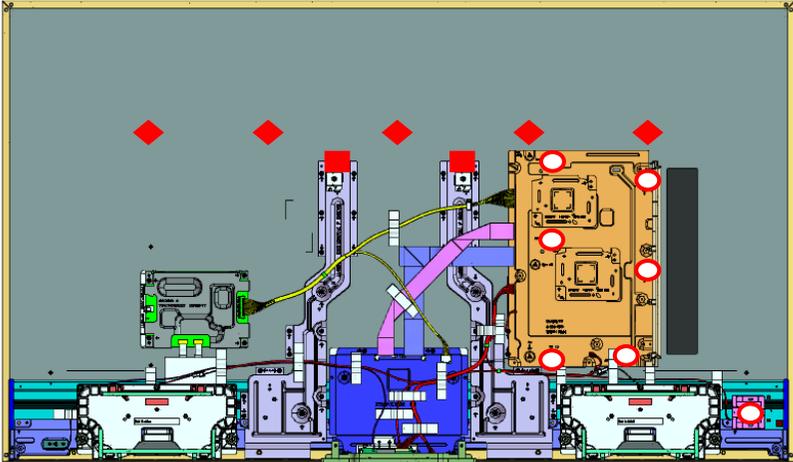
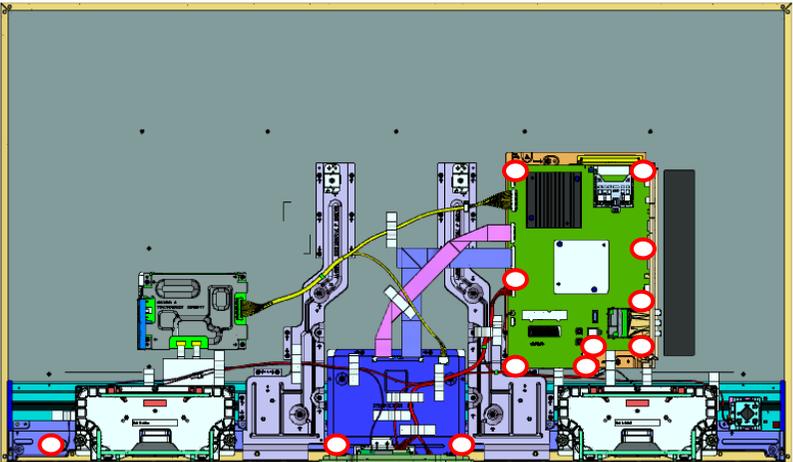
REF.NO.	PART No.	DESCRIPTION	MARK
101	1-849-259-11	FLEXIBLE FLAT CABLE 41P	CN3601(BMFW2)-TCON (1)
102	1-849-260-11	FLEXIBLE FLAT CABLE 51P	CN3601(BMFW2)-TCON (1)
103	1-910-110-91	HARNESS ASSY (MAIN)	CN1001(BMFW)-CN001(HSC4)-WIFI-SM (1)
104	1-910-110-92	CONNECTOR ASSY 30P	CN4001(LD)-CN9000(BMFW2)-TCON-KT/CN003(KT)-SP (1)

1. KD-55XD8505/8577/8588/8599, FW-55XD8501

SCREWS



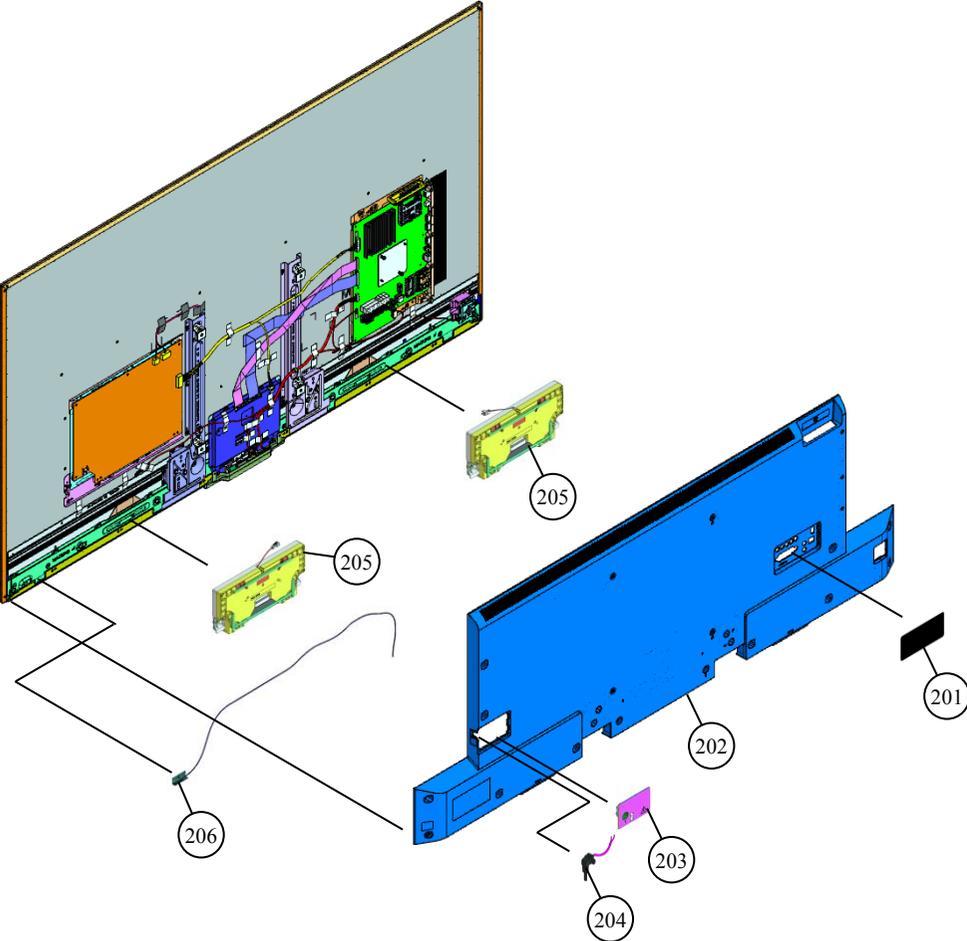
REF.	DESCRIPTION	PART No.
■	SCREW +PSW M4X10	4-159-298-01
●	SCREW +BVTP 3X10 TYPE2 IT-3	7-685-647-79
○	SCREW, +PSW M3X6	4-472-518-11
◆	SCREW M3X3.0 STEP	4-579-926-01
▲	SCREW, ORNAMENTAL M6X12	4-268-126-02



2. KD-65XD8505/8577/8599, FW-65XD8501

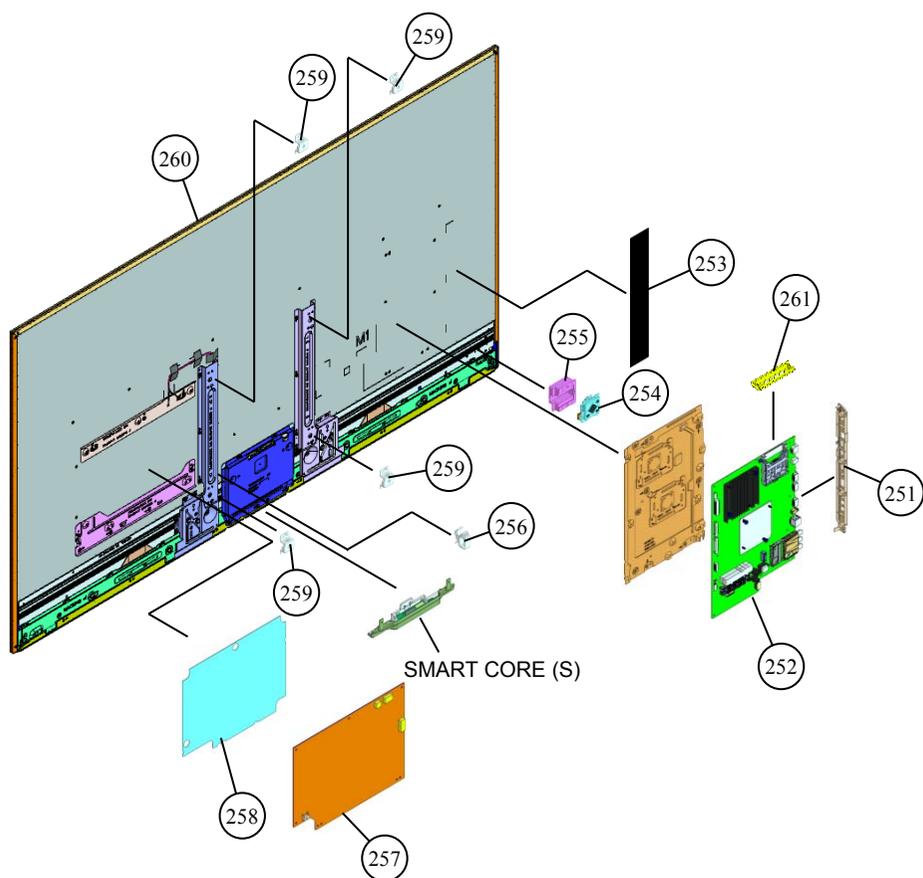
REAR COVER

REF. No.	PART No.	DESCRIPTION	MARK
201	4-585-133-01	LABEL, REAR TERMINAL (PDT M1)	
202	4-580-877-01	REAR COVER (M1_2L_PDT) A	
203	4-579-996-01	AC COVER(PDT 2L)	
204	▲ 1-839-667-21	POWER-SUPPLY CORD (WITH CONN.)	FOR UKA
204	▲ 1-839-691-21	POWER-SUPPLY CORD (WITH CONN.)	FOR CE/RU3
205	1-859-138-11	SP-BOX ASSY, W25(L)-E	
206	1-754-949-11	BT ANTENNA	



2. KD-65XD8505/8577/8599, FW-65XD8501

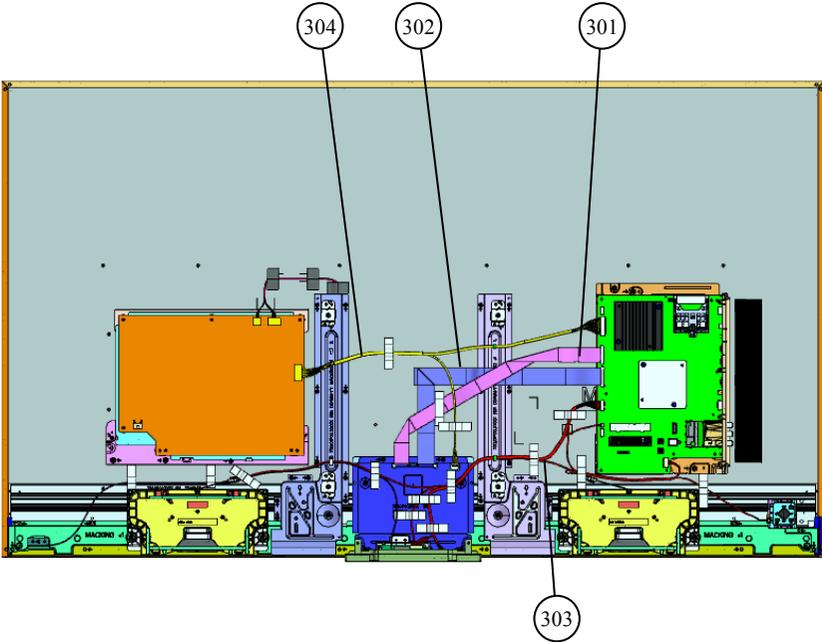
LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
251	4-580-885-41	BRACKET, SIDE (PDT M1)	
252	🔒 A-2094-431-A	COMPL SVC BMFW2_EU_CI_S_G	XD8501
252	🔒 A-2094-429-A	COMPL SVC BMFW2_EU_CI_G	XD8505/8577/8599
253	4-583-384-21	LABEL, SIDE TERMINAL (PDT M1)	
254	1-798-511-22	SWITCH UNIT (SM-G-WW)	
*	255	4-580-869-01	HOLDER SIDE SW(PDT M1)
*	256	2-650-770-21	SLIDE, CLAMP
257	1-474-642-11	GL1(CH)-STATIC CONVERTER(TV)	
258	4-580-889-01	SHEET, INSULATION (PDT 2L)	
*	259	4-486-590-01	BRACKET, VESA(MIA)
260	⚠️ 1-812-194-11	LCD PANEL(W65QWMEB)	FOR BLACK
260	⚠️ 1-812-195-11	LCD PANEL(W65QWMES)	FOR SILVER
261	4-546-441-11	BRACKET, TOP FL (MOLD)	

2. KD-65XD8505/8577/8599, FW-65XD8501

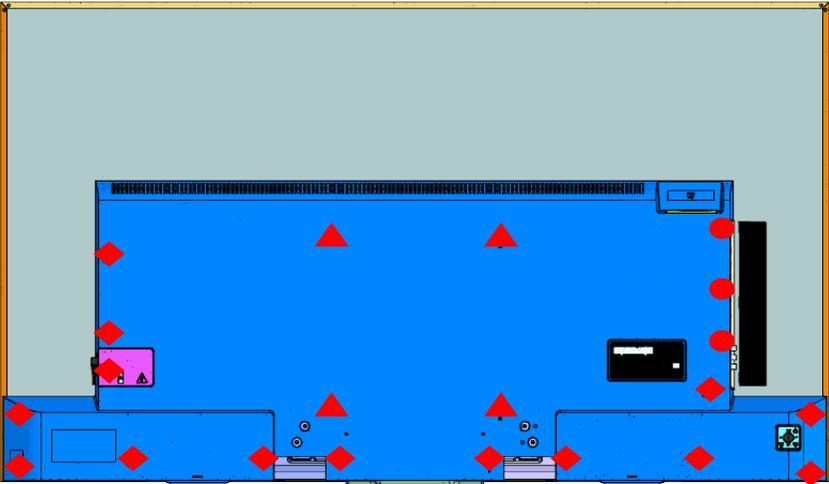
CONNECTORS



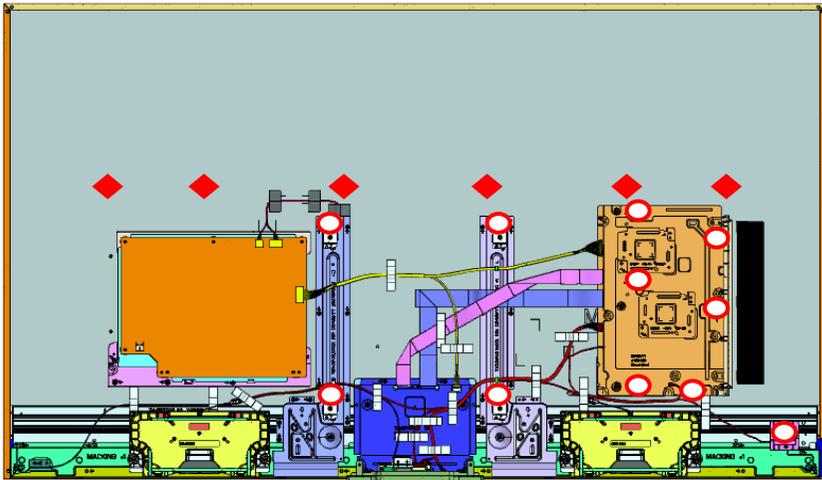
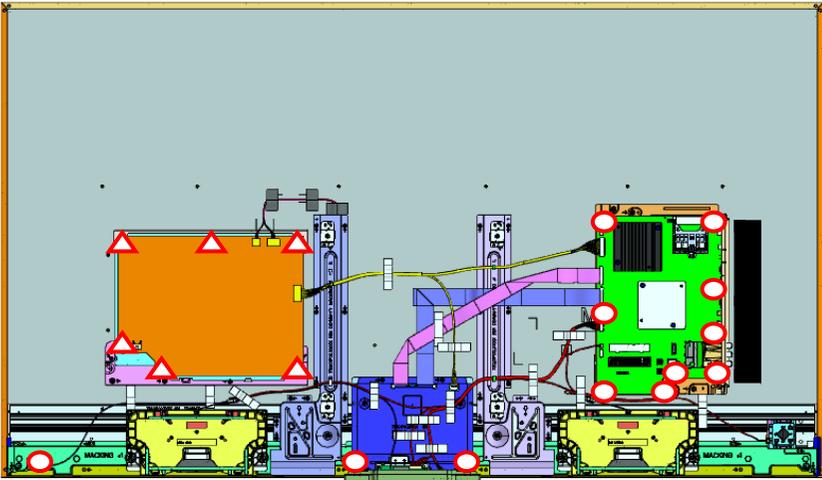
REF.NO.	PART No.	DESCRIPTION	MARK
301	1-849-257-11	FLEXIBLE FLAT CABLE 41P	CN3601(BMFW2)-TCON (1)
302	1-849-258-11	FLEXIBLE FLAT CABLE 51P	CN3601(BMFW2)-TCON (1)
303	1-910-110-93	HARNESS ASSY (MAIN)	CN1001(BMFW)-CN001(HSC4)-WIFI-SM (1)
304	1-910-110-94	CONNECTOR ASSY 28P	CN6401(GL1)-CN9000(BMFW2)-TCON-KT/CN003(KT)-SP (1)

2. KD-65XD8505/8577/8599, FW-65XD8501

SCREWS

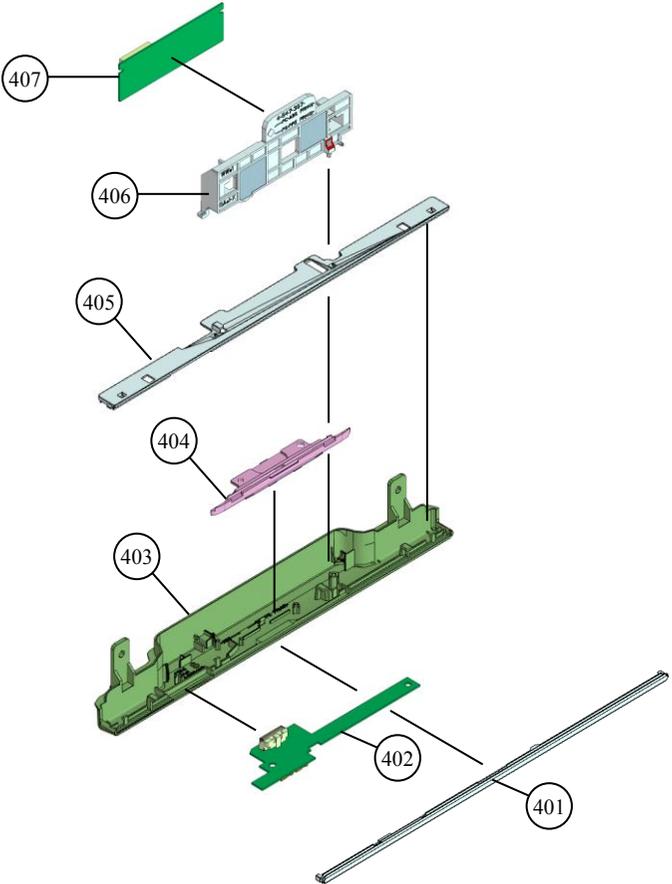


REF.	DESCRIPTION	PART No.
■	SCREW +PSW M4X10	4-159-298-01
●	SCREW +BVTP 3X10 TYPE2 IT-3	7-685-647-79
○	SCREW, +PSW M3X6	4-472-518-11
◆	SCREW M3X3.0 STEP	4-579-926-01
▲	SCREW, ORNAMENTAL M6X12	4-268-126-02
△	SCREW, +PSW M3X6 W12	4-256-393-12



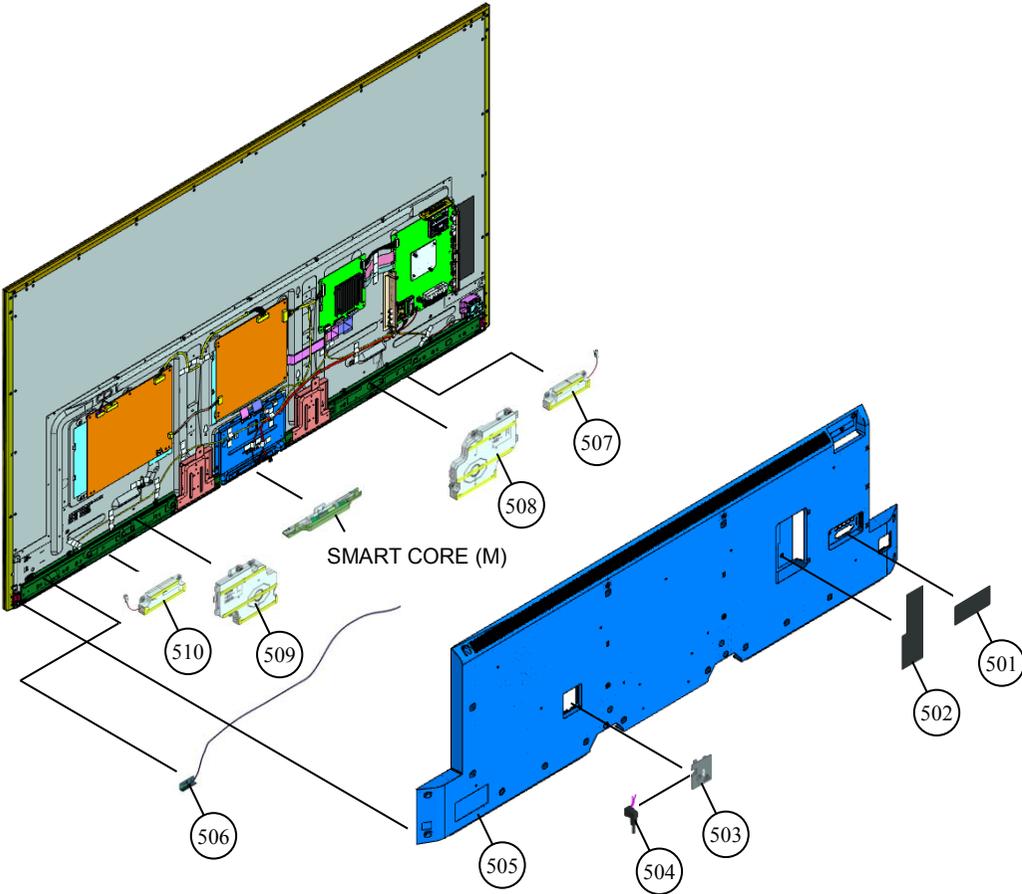
3. SMART CORE (S)

REF. No.	PART No.	DESCRIPTION	MARK
401	4-580-149-01	PANEL, ORNAMENT	
402	A-2092-887-A	HSC4-S MOUNT	
403	4-580-146-01	CASE, BTM (S)	
404	4-580-150-01	GUIDE, LIGHT	
405	4-580-151-01	COVER, TOP	
406	4-547-397-02	BRACKET, WIFI	
407	1-458-853-11	WLAN/BT MODULE(11AC)	



4. KD-75XD8505, FW-75XD8501

REAR COVER

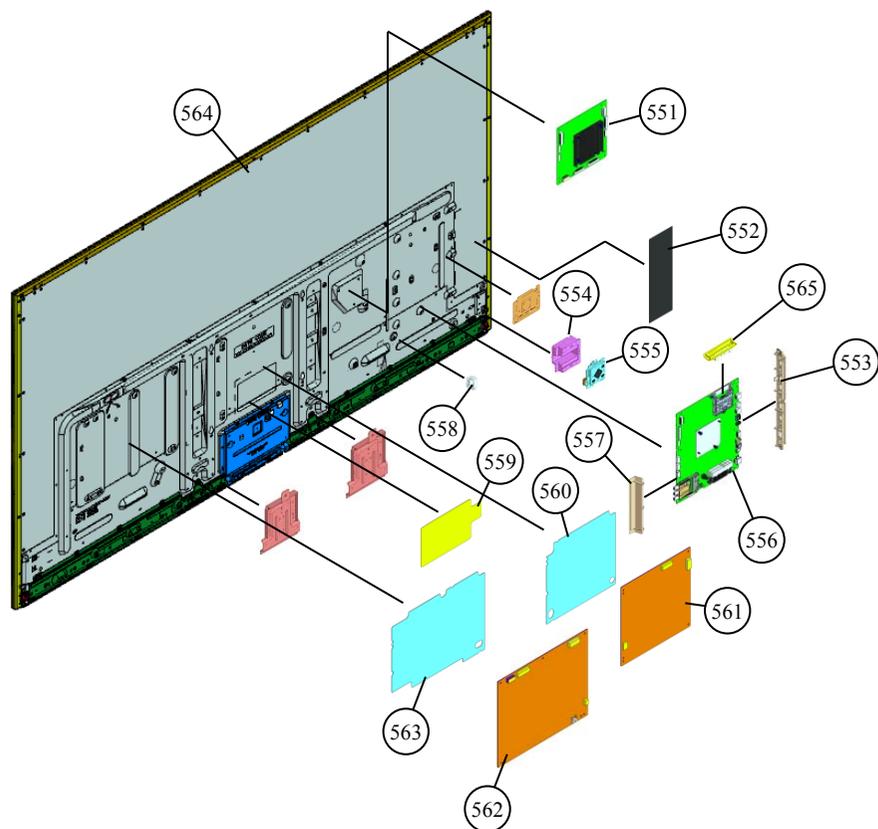


REF. No.	PART No.	DESCRIPTION	MARK
501	4-584-550-03	LABEL, REAR TERMINAL (GNT)	
502	4-585-153-21	LABEL, INSIDE TERMINAL(PDT 3L)	
503	4-297-989-01	AC COVER	
504	▲ 1-839-691-12	POWER-SUPPLY CORD (WITH CONN.)	For CEI/RU3
504	▲ 1-839-667-12	POWER-SUPPLY CORD (WITH CONN.)	For UKA
505	4-578-906-01	REAR COVER (3L_PDT) A	
506	1-754-949-11	BT ANTENNA	
507	1-859-109-21	SP-BOX ASSY(W20-SQ RCH CH-ND)	
508	1-859-108-61	SP-BOX ASSY(D20-WF RCH CH-ND)	
509	1-859-108-51	SP-BOX ASSY(D20-WF LCH CH-ND)	
510	1-859-109-11	SP-BOX ASSY(W20-SQ LCH CH-ND)	

In the case of 75", install position of SP-BOX is opposite to parts name.

4. KD-75XD8505, FW-75XD8501

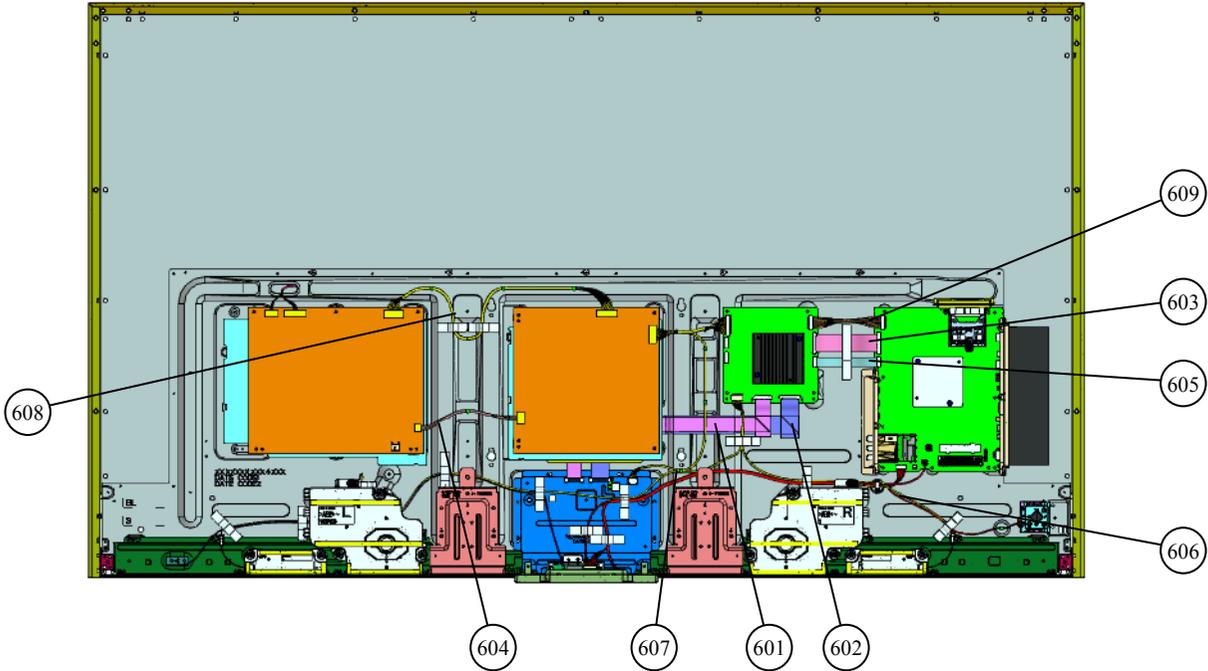
LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
551	A-2094-367-A	DPS_G_22_LD COMPL	
552	4-585-151-31	LABEL, SIDE TERMINAL (PDT 3L)	FW-75XD8501
552	4-585-151-21	LABEL, SIDE TERMINAL (PDT 3L)	KD-75XD8505
553	4-579-711-01	BRACKET, SIDE (PDT 3L)	FW-75XD8501
553	4-579-711-21	BRACKET, SIDE (PDT 3L)	KD-75XD8505
*	554	4-580-869-01	HOLDER SIDE SW(PDT M1)
555	1-798-511-22	SWITCH UNIT (SM-G-WW)	
556	🔒 A-2094-416-A	COMPL SVC BM1_EU_CI_S_QH	FW-75XD8501
556	🔒 A-2119-141-A	COMPL SVC BM1_EU_CI_QH	KD-75XD8505
557	4-579-712-21	BRACKET, INSIDE (PDT 3L)	
*	558	2-650-770-21	SLIDE, CLAMP
559	4-585-116-01	TAPE FFC (PDT 3L)	
560	4-583-271-01	SHEET, INSULATION(PDT 3L SYS)	
561	⚠ 1-474-643-11	G1-STATIC CONVERTER(TV)	
562	⚠ 1-474-644-11	GL2-STATIC CONVERTER(TV)	
563	4-583-270-01	SHEET, INSULATION(PDT 3L)	
564	⚠ 1-812-205-21	LCD PANEL(D75QF58B)	
565	4-546-441-11	BRACKET, TOP FL (MOLD)	

4. KD-75XD8505, FW-75XD8501

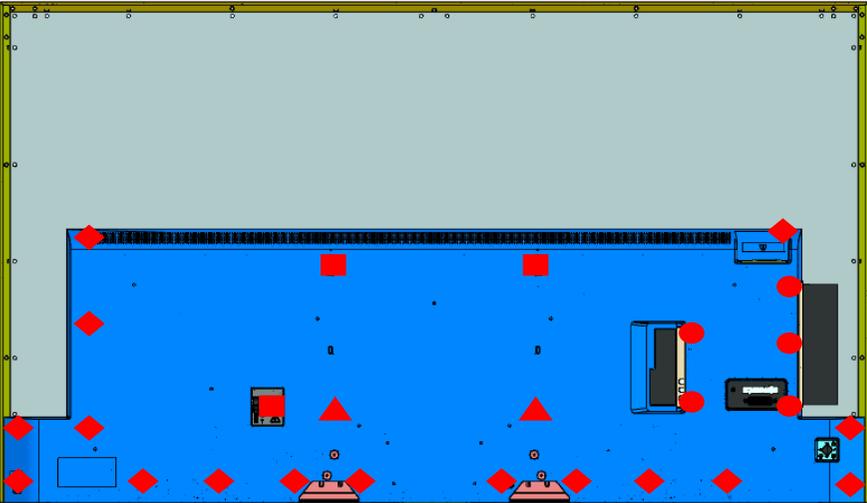
CONNECTORS



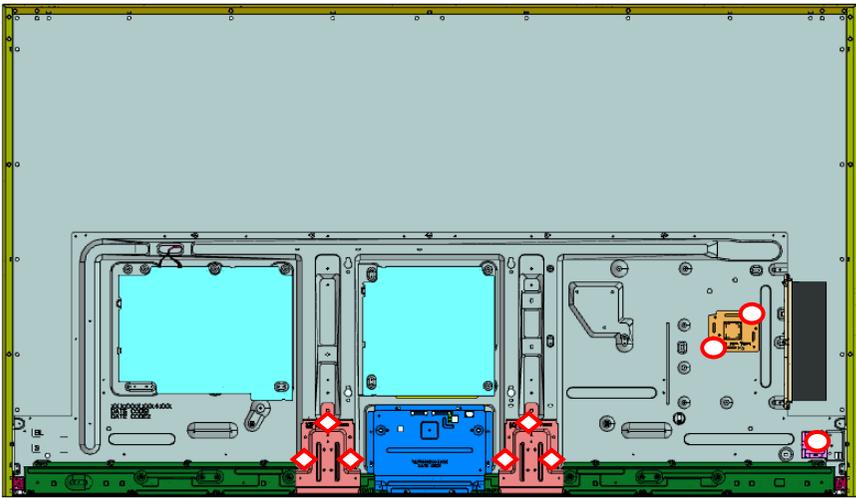
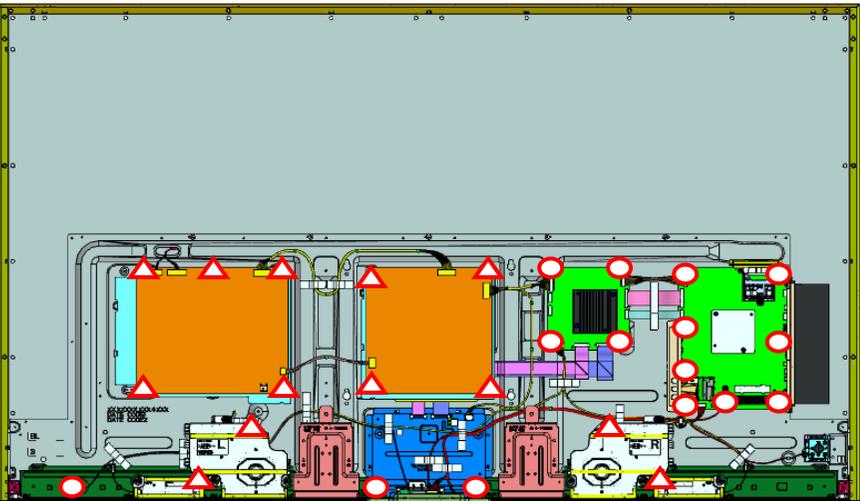
REF.NO.	PART No.	DESCRIPTION	MARK
601	1-849-343-11	FLEXIBLE FLAT CABLE 41P	CN3600(DPS)-TCON (1)
602	1-849-344-11	FLEXIBLE FLAT CABLE 51P	CN3601(DPS)-TCON (1)
603	1-849-345-11	FLEXIBLE FLAT CABLE 51P	CN8701(BM1)-CN8700(DPS) (1)
604	1-849-346-11	CONNECTOR ASSY 3P	CN6102(G1)-CN6103(GL2) (1)
605	1-910-111-01	FLEXIBLE FLAT CABLE 30P(BD)	CN7704(BM1)-CN7708(DPS) (1)
606	1-910-111-02	HARNESS ASSY (MAIN)	CN1001(BM1)-CN001(HSC4)-WIFI-SM (1)
607	1-910-111-03	HARNESS ASSY (GBTS)	CN6401(G1)-CN401(DPS)-TCON/CN7709(DPS)-SP (1)
608	1-910-111-04	CONNECTOR ASSY 12P	CN6402(G1)-CN6803(GL2) (1)
609	1-910-111-22	CONNECTOR ASSY 20P	CN9000(BM1)-CN400(DPS) (1)

4. KD-75XD8505, FW-75XD8501

SCREWS

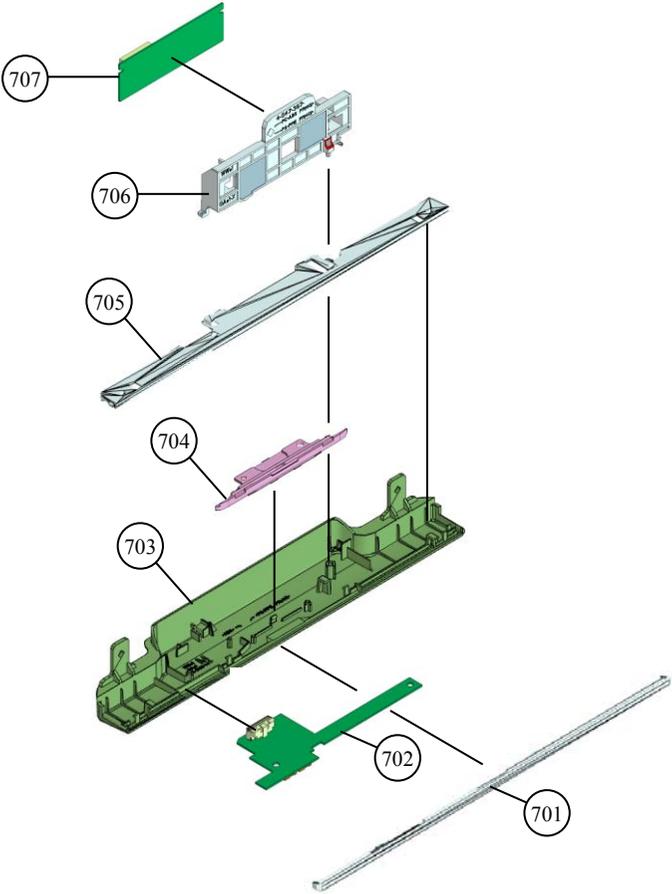


REF.	DESCRIPTION	PART No.
■	SCREW +PSW M4X10	4-159-298-01
●	SCREW +BVTP 3X10 TYPE2 IT-3	7-685-647-79
○	SCREW, +PSW M3X6	4-472-518-11
◆	SCREW M3X3.0 STEP	4-579-926-01
▲	SCREW, ORNAMENTAL M6X12	4-268-126-02
△	SCREW, +PSW M3X6 W12	4-256-393-12
◇	PULLEY, STAND (HWI)	4-534-964-01



5. SMART CORE (M)

REF. No.	PART No.	DESCRIPTION	MARK
701	4-580-149-01	PANEL, ORNAMENT	
702	A-2092-888-A	HSC4-M MOUNT	
703	4-580-147-01	CASE, BTM (M)	
704	4-580-150-01	GUIDE, LIGHT	
705	4-580-151-11	COVER, TOP	
706	4-547-397-02	BRACKET, WIFI	
707	1-458-853-11	WLAN/BT MODULE(11AC)	



6. OTHER PART

MISCELLANEOUS

PART No.	DESCRIPTION	MARK
4-590-730-01	SHEET, IR NOISE	
* 4-144-046-11	LABEL, COMBI	
4-534-964-01	PULLEY, STAND (HWI)	
4-549-186-01	SHEET, THERMAL(BM)	65"
4-587-424-01	SPACER(17)+C	65"
4-588-110-01	CUSHION (PDT AC)	65"
4-457-451-01	SHEET, THERMAL (BAF)	75"
4-590-055-01	CUSHION, PORON	75"
* 4-548-743-01	HOLDER, HS WS (MUF)	
* 4-549-188-01	HOLDER(HS MUF)	
* 4-563-516-01	HEAT SINK(MUFF CP)	
* 4-547-493-01	HEAT, SINK (MUFF)	
* 7-600-040-44	ADHESIVE (SV380C) 333CC GRY	

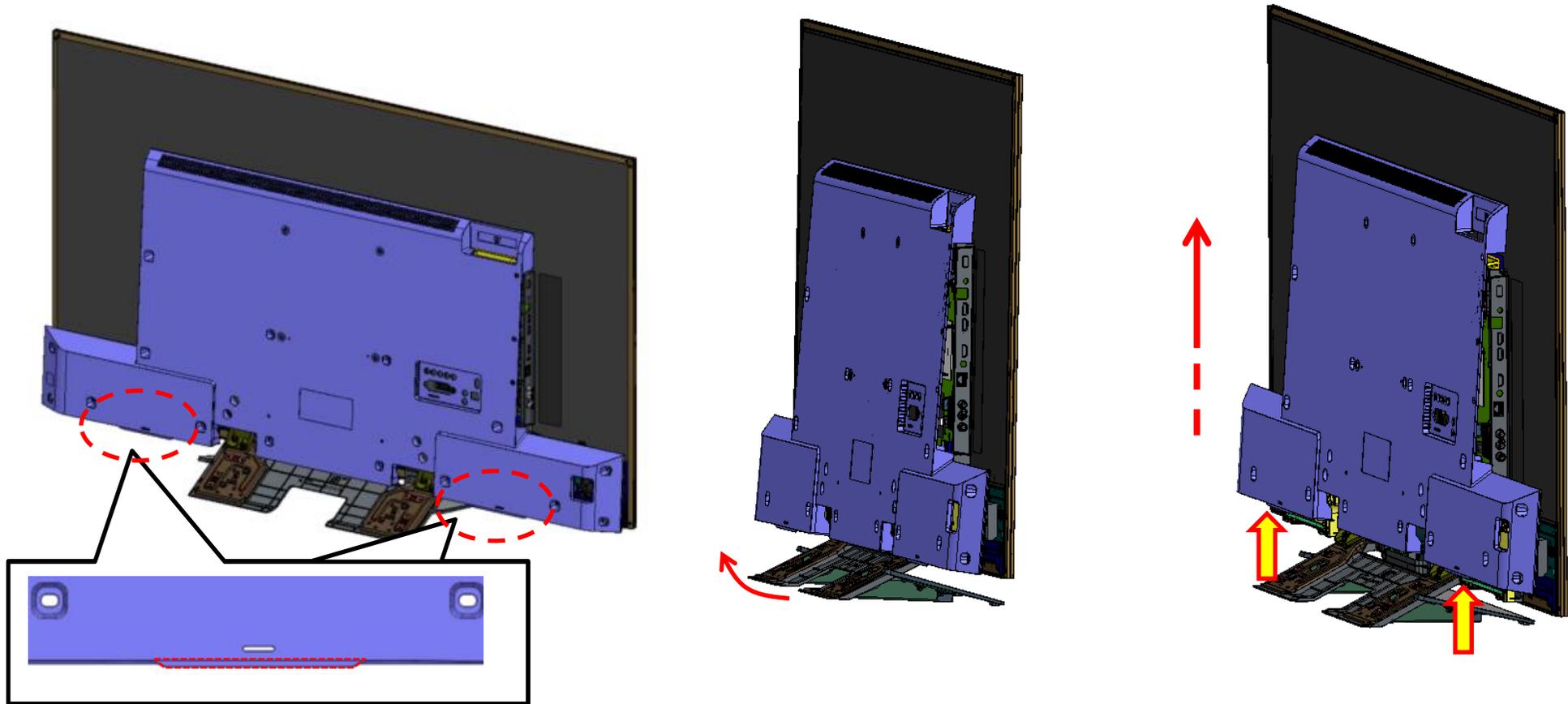
ACCESSORIES

PART No.	DESCRIPTION	MARK
1-493-129-11	REMOTE COMMANDER (RMF-TX200E)	
1-493-169-11	REMOTE COMMANDER (RMT-TX210E)	KD-55XD8588 KD-55/65XD8599 (CEI only) FW-55/65/75XD8501
▲ 1-493-002-21	AC ADAPTOR (160W)	55"
▲ 1-846-093-51	CORD SET, POWER-SUPPLY	55":RU3
▲ 1-846-420-11	CORD SET, POWER-SUPPLY	55":CEI
▲ 1-837-421-13	CORD SET, POWER-SUPPLY	55":UKA
1-845-283-21	IR BLASTER	UKA
4-262-708-04	CLAMPER, CABLE	
4-579-484-11	STAND REAR COVER (L PDT) A	55"
4-581-374-01	STAND (L PDT) A	55XD8501/8505/8577
4-579-503-01	STAND(L PDT DERI) A	55XD8588/8599
4-579-499-01	STAND NECK (L PDT) A	55"
4-579-506-11	STAND REAR COVER (2L PDT) A	65"
4-581-375-01	STAND (2L PDT) A	65XD8501/8505/8577
4-579-513-01	STAND(2L PDT DERI) A	65XD8599
4-579-499-11	STAND NECK (L PDT) A	65"/75"
4-579-516-01	STAND REAR COVER (3L PDT) A	75"
4-579-518-01	STAND (3L PDT) A	75"
4-462-871-02	BAG, SCREW A (CCT)	
(2-580-607-01)	(SCREW, +PSW M5X12)	4 pcs
4-585-682-01	BAG,SCREW (M6L16)(4)(PDT_L)	
(2-580-611-01)	(SCREW, +PSW M6X16)	4 pcs

END

APPENDIX-1

HOW TO TAKE OFF A REAR COVER



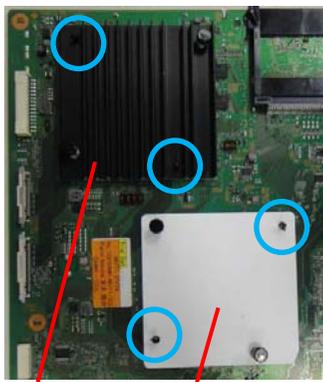
Push the Rear Cover to up direction after pull up the reflector structure on Rear Cover **slightly**.
You can disassemble Rear Cover by sliding.

APPENDIX-2

How to disassemble HEAT SINK (BMFW2 board)



○ HOLDER, HS WS (MUF)
4-548-743-01



HEAT SINK (MUFF) HEAT SINK (MUFF CP)

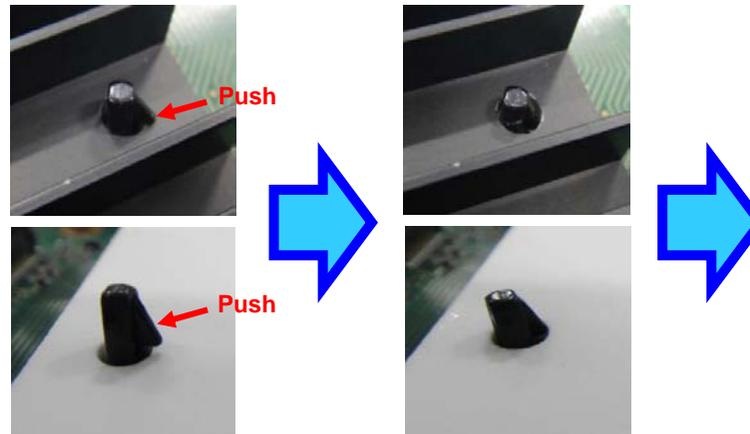
○ HOLDER, (HS MUF)
4-549-188-01

<NOTE>

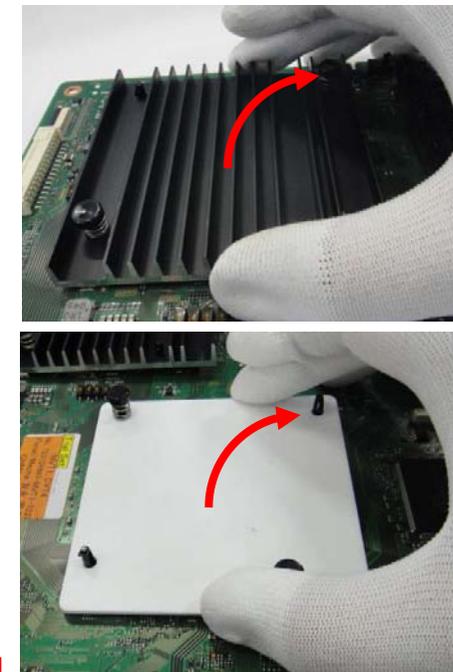
HEAT SINK are already attached to the B board for service.
If you need to disassemble HEAT SINK from B board for repair,
Please cut **HOLDER, HS WS (MUF)** with tool (nippers) from B side of B board.
However, please it carefully because some damage may be given
to the neighborhood parts or the B board itself.



When you re-assemble HEAT SINK,
Do not reuse HOLDER, HS WS. Should be replaced to new parts.
And **Potting operation is necessary** at the same time for re-assembly of HEAT SINK.
Please refer SBR "New Potting TIM Operation for board repair" for details.



Unhook HOLDER, (HS MUF)



Do not reuse HOLDER. Should be replaced to new parts.

How to disassemble HEAT SINK (BM1 board)



○ HOLDER, HS WS (MUF)
4-548-743-01

<NOTE>

HEAT SINK are already attached to the B board for service.
If you need to disassemble HEAT SINK from B board for repair,
Please cut **HOLDER,HS WS(MUF)** with tool (nippers) from B side of B board.
However, please it carefully because some damage may be given
to the neighborhood parts or the B board itself.



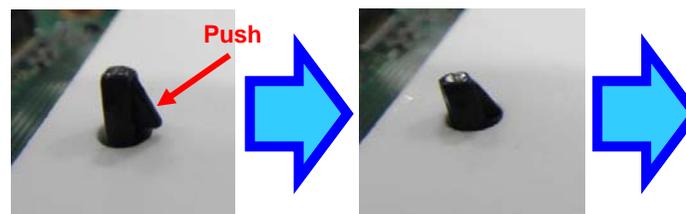
When you re-assemble HEAT SINK,
Do not reuse HOLDER,HS WS. Should be replaced to new parts.
And **Potting operation is necessary** at the same time for re-assembly of HEAT SINK.
Please refer SBR "New Potting TIM Operation for board repair" for details.

Ceramic FIN HEAT SINK has 2 types such as right photos.
The difference b/w FY16 New and FY15 Carry is **Fin Qty.**
Size and Hole position is same.
You can use both Ceramic FIN HEAT SINK for an assembly of
BM1 board.



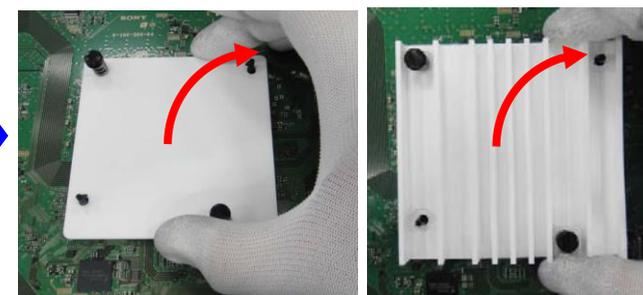
75": HEAT SINK (MUFF2_C)

○ HOLDER, (HS MUF)
4-549-188-01

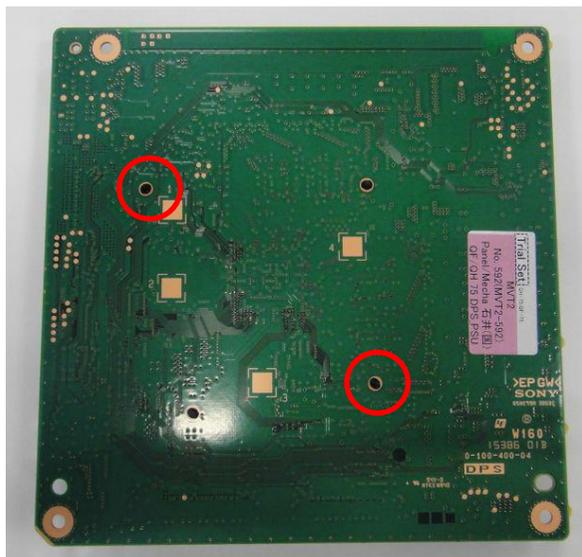


Unhook HOLDER,(HS MUF)

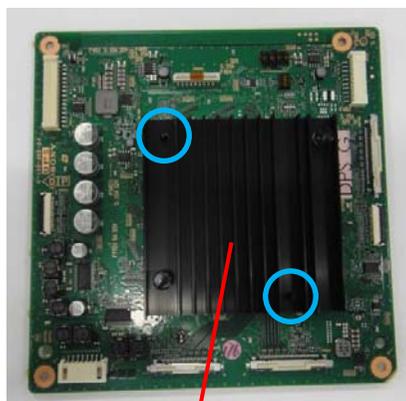
**Do not reuse HOLDER.
Should be replaced to new parts.**



How to disassemble HEAT SINK (DPS board)



○ HOLDER, HS WS (MUF)
4-548-743-01



HEAT SINK (MUFF)

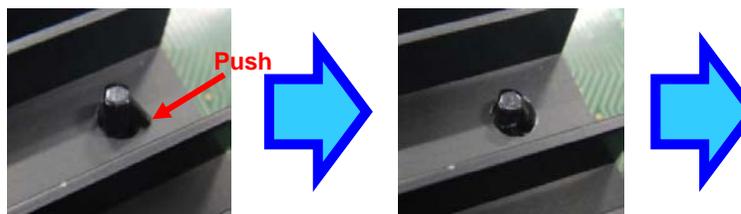
○ HOLDER, (HS MUF)
4-549-188-01

<NOTE>

HEAT SINK are already attached to the DPS board for service.
If you need to disassemble HEAT SINK from DSP board for repair,
Please cut **HOLDER, HS WS (MUF)** with tool (nippers) from B side of DPS board.
However, please it carefully because some damage may be given
to the neighborhood parts or the DPS board itself.



When you re-assemble HEAT SINK,
Do not reuse HOLDER, HS WS. Should be replaced to new parts.
And **Potting operation is necessary** at the same time for re-assembly of HEAT SINK.
Please refer SBR "New Potting TIM Operation for board repair" for details.



Unhook HOLDER, (HS MUF)

**Do not reuse HOLDER.
Should be replaced to new parts.**

