# SERVICE MANUAL (TROUBLESHOOTING)

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9-888-744-21

**LCD TV** 

SONY

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

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# **MODEL LIST**

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



# **MODEL**

FW-43BZ35F FW-49BZ35F

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Please refer Service Manual (Disassembly) for below information:

- -Dissassy and Removal Caution
- -Wire Dressing
- -Circuit Board Location
- -Exploded Views and Parts List

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

### 1-1. Warnings and Caution.

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

### 6) IMPORTANT REMINDER FOR TV MAIN BOARD REPLACEMENT:

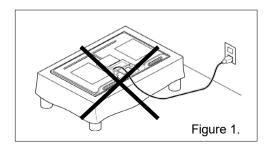
It is mandatory for service centers to confirm the TV's system information after each repair is carried out with Main board replacement. Whenever a TV Main board is replaced, the correct TV Model and Serial number must be reinserted into memory. This is a MANDATORY procedure that each service center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

### 1-2. Caution Handling of LCD Panel.

When repairing the LCD Panel, make sure you are grounded with a wrist band. When repairing the LCD Panel on the wall, the panel must be secured using the 4 mounting holes on the rear cover.

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

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



### 1-3. Caution\_for\_Board\_handling.

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

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

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

Substrate that needs attention for handling:

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

\*Things to prepare in advance.



\*Caution: ESD wrist-strap to be checked daily.

Use Multi-meter to make sure resistance of ESD wrist-strap is OK.

(R=750K Ohms to 35Mega Ohms)

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





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

1 Hold the board with both hands





(2) Do not hold/push Heat-Sink





3 Handle with care. Do not swing



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





(5) Do not stack up

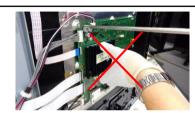


6 Keep vertical position and put in/take out from Box.
Always put into ESD bag then place into Box/Container Box



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

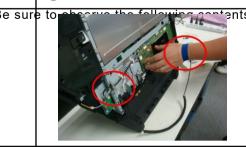




When take off Rear-Cover, do not touch to board

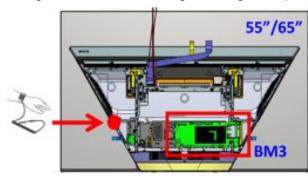
2 Use ESD wrist-strap

2) Caution

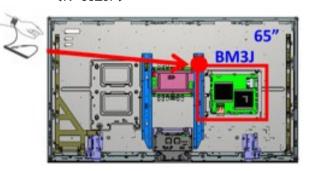


\*Installation example of wrist-strap.

Please connect the clip to the metal part of the chassis of the TV with the wristband grounded. Below is a grounding example of each model.



<K\*-65Z9F>



Use Multi-meter to make sure resistance of ESD wrist-strap is OK.

(R=750K Ohms to 35Mega Ohms)

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



After take defective board out from TV, put it into ESD bag.

Do not place on floor mat/carpet direct. And, always put it on ESD cushion





### 1-4. Caution About the Lithium Battery.

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

### 1-5. Safety Check-Out

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

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

### 1-6. Leakage Test.

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

Stabilized power supply instrument and isolated voltage transformer:

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

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

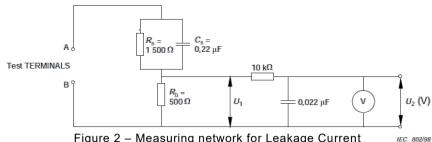
- \*1 Not use FLUKE 8920A that connected to protective earth by diode.
- # Leakage current of measurement instrument is less than 10µArms when under test equipment AC plug is opened.
- # Set up the following condition and turn on the set. Applied voltage: Nominal input voltage (Description on Nameplate).
- # Measure the leakage current between one phase conductor and neutral for terminal A and terminal B.

Read rms value, and then calculate to peak value PEAK VALUE =√2 RMS VALUE.

Comply with the following requirement.

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

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



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

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

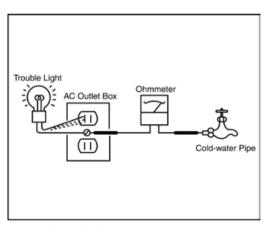


Figure 3. Checking for earth ground.

### 1-8. Lead Free Information

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



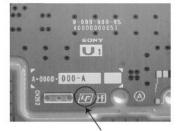
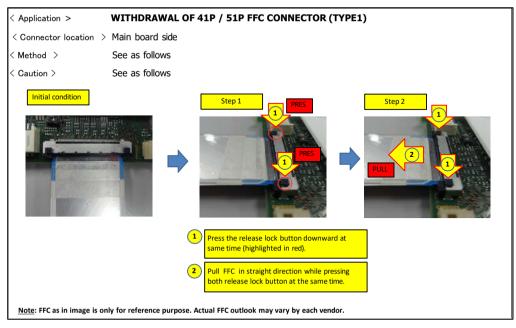


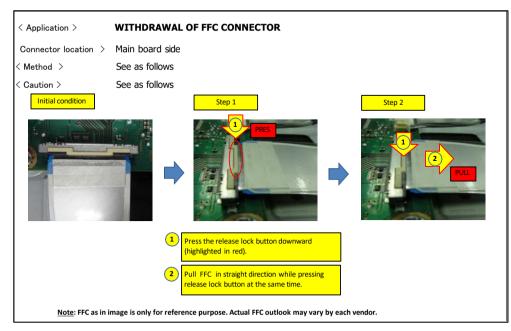
Figure 4: LF Logo

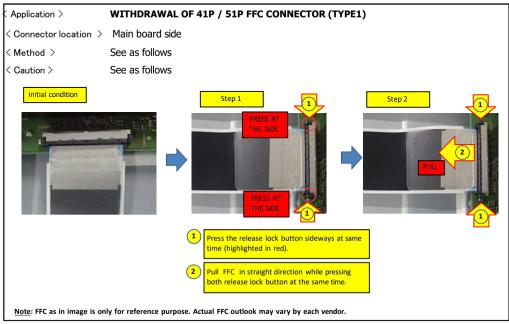
Figure 5: LF logo on circuit board

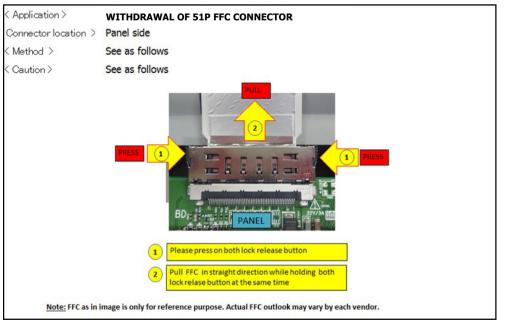
The servicing of these boards requires special precautions. It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints.

# 1-8. FFC Handling Caution









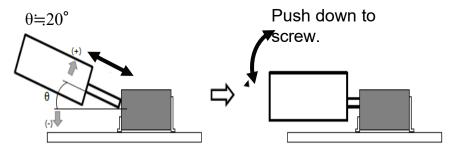


# 1-9. Solder-less Tuner Replacement

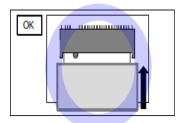
### Solder-less tuner replacement procedure

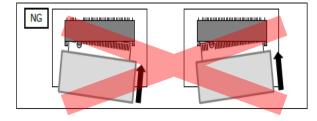
Mounting Method

1 The insertion & extraction angle of the module is permitted to specified degree for connector



Please insert or extract the module straightly toward the connector. Do NOT insert or extract the module with an angle.



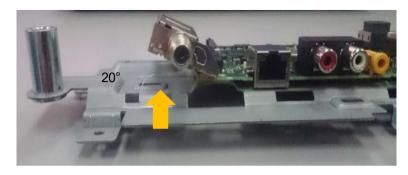


<u>Service manual operation (agreed by service member):</u>
Not using insertion jig. Due quantity not many as production.

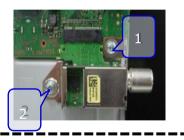
SC can control by:

- 1) Issue service manual for WW ASC.
- 2) Give training/lecture how to assemble tuner. Will be handle by SOEM service PIC.

• For removing Tuner Module, In the case of small type Tuner module. After un screwed, Automatically the Module will float to correct degree. So please extract it with keeping this degree.



- Please confirms whether no dust and no bend on terminal of connecter(CN2800) and card-edge connecter
- Attachment order of screw.
  - 1. Side of antenna terminal (W/BFM board).
  - 2. Rear side of Tuner module.



# SECTION 2 SELF DIAGNOSTIC FUNCTION

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

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

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

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

### DIAGNOSTIC TEST INDICATORS

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

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

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

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

Self Diag. Quick Reference (LED blinking)

Smart Core RED LED blinking count	Detection Items						
2x	<b a="" g="" ld=""> Main 12V over voltage [MAIN_POWER]</b>						
3x	<b> Main 5.0V failure [DC_ALERT]</b>						
3x	<b s=""> Audio amp. protection [AUD_ERR]</b>						
5x <p b="" g="" ld="" t=""> Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect) [P_ID_ERR]</p>							
6x	< G/P/B/LD> Backlight failure [BACKLIGHT]						
7x	<b>Over temperature protection [TEMP_ERR] Temp. sensor I2C No ACK [TEMP_ERR]</b>						
8x	<b> 4KPQ WDT [4KPQ Error]  BOOTUP_NOTE low</b>						

Blue italic: detect at startup sequence only.

<G>: Power supply board, <B>: Main board, <T>: T-con board,

<LD>: LD board (if AC adapter model, it would power supply for Set), <P>: Panel module, <S>:

Speaker, <A>: Power Adapter, <Tu>: Tuner board, <K> : Audio board

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

Record Only Item	Detection Items
TU_DEMOD	None
TCON ERR	<b t=""> T-CON device I2C communication failure</b>
FRCTC_I2 C	<b> FRC device is not finished Initial sequence FRC device I2 C communication failure</b>
AUD_ERR_I2C	<b> Audio amp I2C communication failure</b>
4KPQ_ERR_I2C	<b> 4KPQ device I2C communication failure</b>

Blue italic: detect at startup sequence only.

<G>: Power supply board, <B>: Main board, <T>: T-con board, <TE>: Temp Sensor board,

<LD>: LD board (if AC adapter model, it would power supply for Set), <P>: Panel module, <S>: Speaker, <A>: Power Adapter,

<Tu>: Tuner board, <K>: Audio Board

# Retry Limitation by Remote/Power Key

Smart Core Red LED blinking count	Error Name	Retry Permission Times *1	Note	Number of off/on action for MAIN_POWER shutdown is recorded to  STDWN_OFFON_CNT_MAIN_POWER*2
2x	MAIN_POWER	STDWN_RTRY_LIMIT_MAINPOWE R = 1		
3x	DC_ALERT (5V)	STDWN_RTRY_LIMIT = 2		
JA	AUD_ERR	STDWN_RTRY_LIMIT = 2		
4x	LD_ERR	STDWN_RTRY_LIMIT = 2		
-77	BCM_ERR	STDWN_RTRY_LIMIT = 2		Number of off/on action during the error shutdown is recorded to
5x	P_ID_ERR	STDWN_RTRY_LIMIT = 2		STDWN_OFFON_CNT*2
6x	BACKLIGHT	STDWN_RTRY_LIMIT = 2		
7x	TEMP_ERR	STDWN_RTRY_LIMIT = 2		
8x	4KBE_ERR	STDWN_RTRY_LIMIT = 2		
0.0	4KPQ_ERR	STDWN_RTRY_LIMIT = 2		)

<sup>\* 1)</sup> If STDWN\_OFFON\_CNT <= STDWN\_RTRY\_LIMIT, and STDWN\_OFFON\_CNT\_MAIN\_POWER <= STDWN\_RTRY\_LIMIT\_MAINPOWR, you can turn the set on by a remote/power key. At this time, if the error occurs again, the STDWN\_OFFON\_CNT is incremented by 1.

<sup>\*2)</sup> When the main micro operates normally for STDWN\_OFFON\_CLR = 60 minutes, STDWN\_OFFON\_CNT and STDWN\_OFFON\_CNT\_MAIN\_POWER are cleared.

# SECTION 3 TROUBLESHOOTING

### Triage Chart

# Before you make the service call...

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

RED DOT: Most likely defective part

Audio BCM

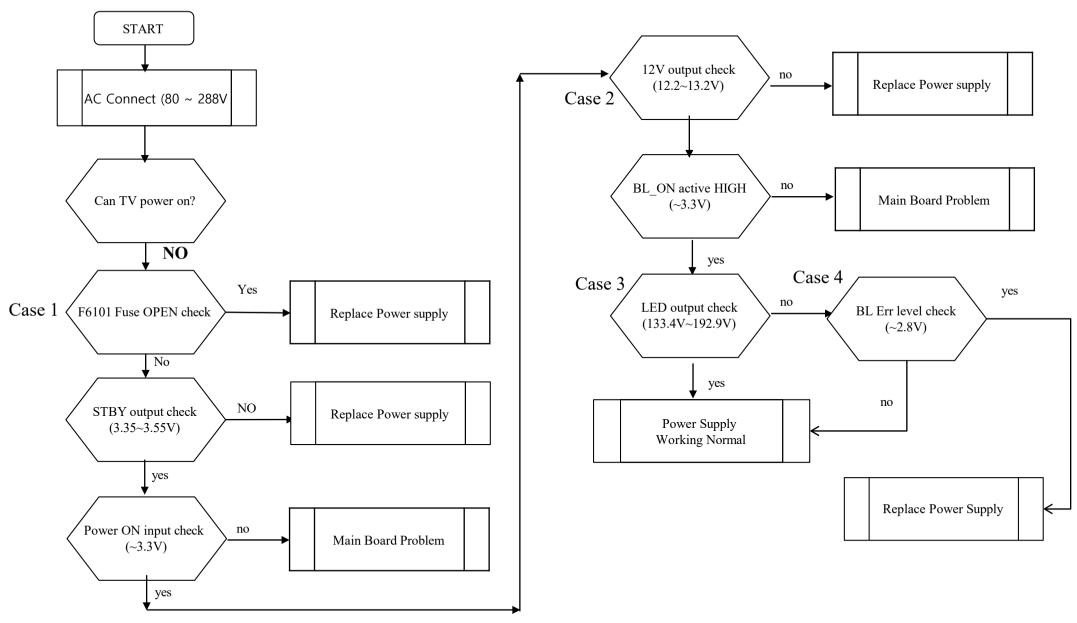
BLUE TRIANGLE: Secondary possible defective part

BLACK TEXT: Board that may correct the symptom

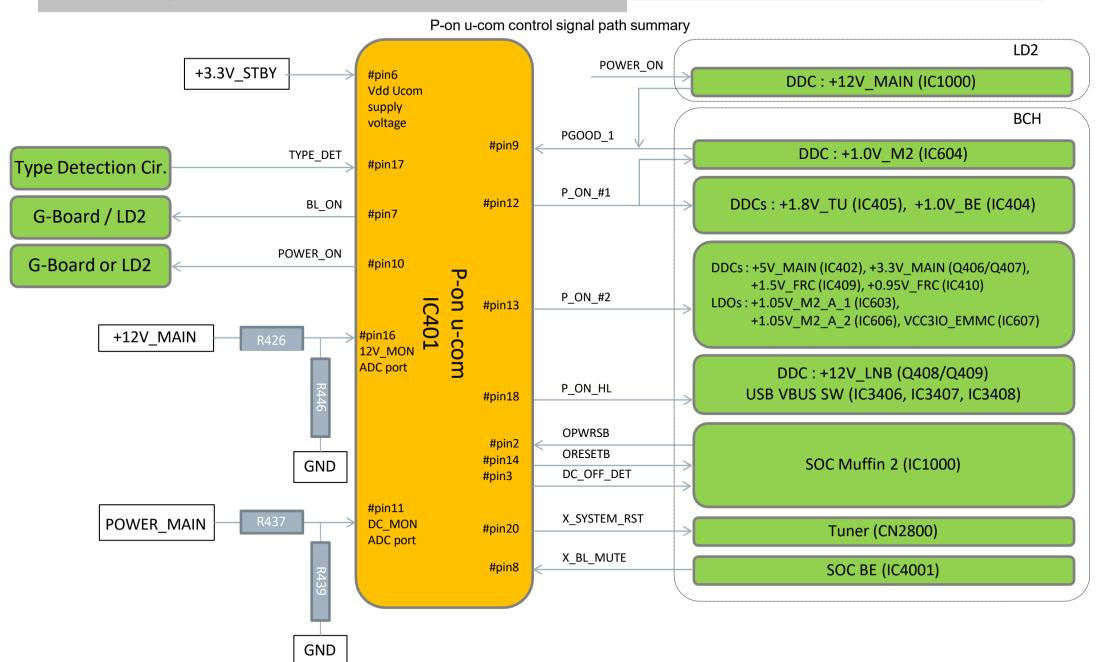
				Shutdown. Pov sequences	wer LED bl	linking r	ed	Symp	toms - n	o shutd ecord o		rror log	No Power	- mis		deo or disto	rted	Remote	Network	Audio	Smart Core	Bluetoo h (BT)
Reference	2	3	4	5	6	7	8	TU_ DEMOD		FRCTC _I2C	AUD_ ERR_ I2C	4KPQ_ ERR_ I2C	No White Power LED & does not respond to remote (Dead Set)	y colored lines or dots	No video One of inputs	NO RF input	No video all Inputs	No Remote Operation	Cannot connect to Wireless Network	1	Smart Core no LED (Set is still alive)	Bluetooth One Step Remote (OSR) can't connect
Main Board	<b>A</b>	•		<b>A</b>	<b>A</b>	•	•	<b>A</b>	<b>A</b>	•	•	•	<b>A</b>	<b>A</b>	•	•	•	<b>A</b>	<b>A</b>	•	<b>A</b>	<b>A</b>
Power Board	•	<b>A</b>		<b>A</b>	•								•							<b>A</b>		
Receiver Board													•					•			•	
LD* Board					•																	
Speaker		<b>A</b>																		•		
Tuner board								•							<b>A</b>	•						
Wi-fi & BT Module																			•			•
V By One FFC				_					<b>A</b>					<b>A</b>			<b>A</b>					
T-con				•					•					<b>A</b>			<b>A</b>					
LCD Panel				<b>A</b>	•	<b>A</b>								•			<b>A</b>					
Problem	Power	Power	LD	Panel (Communication	Panel (Backlight)	TEMP	4KPQ													•		•

### 1.0 NO POWER-PSU

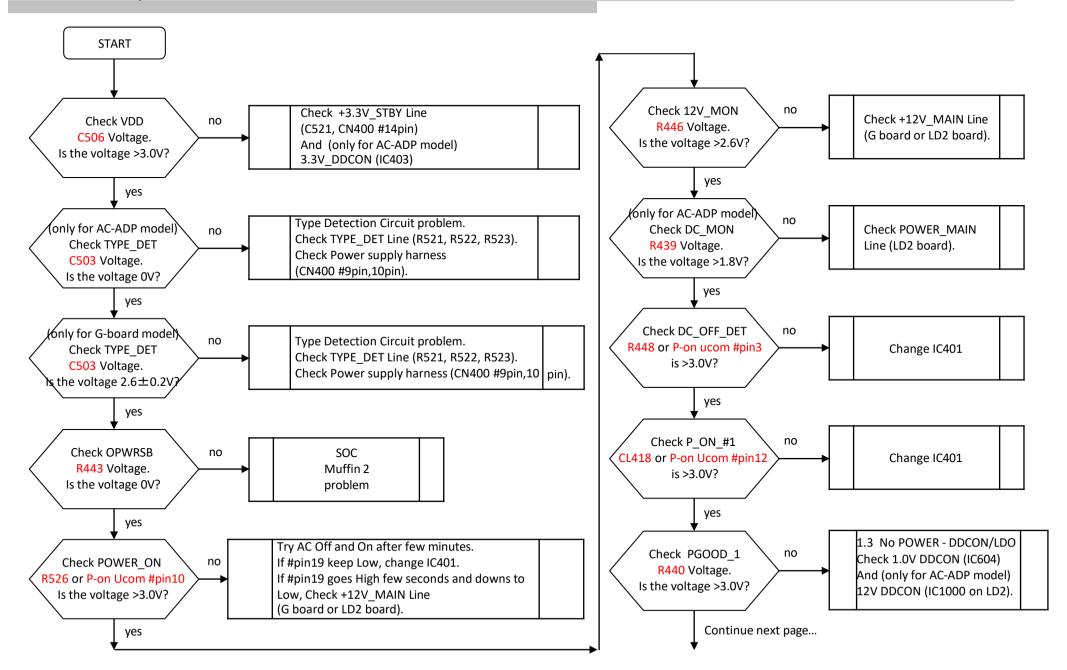
### Overall Flow chart NO POWER G-Board



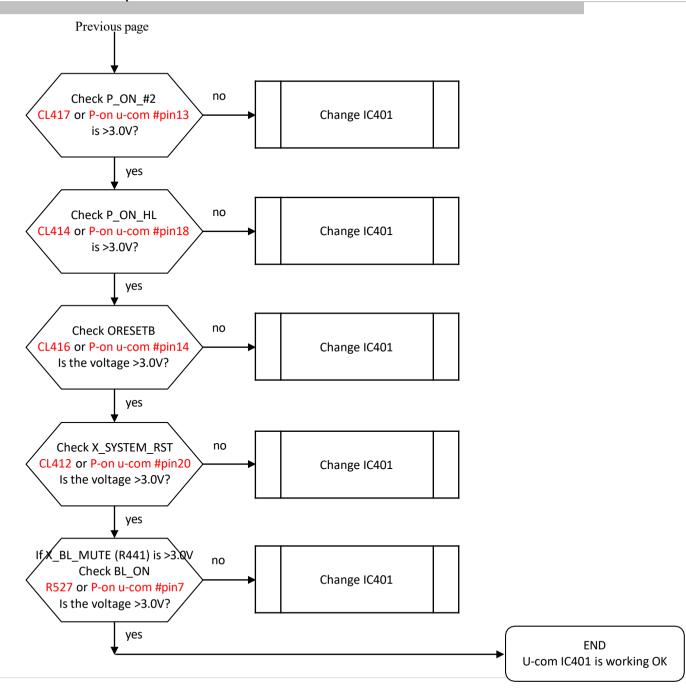
# 1.2 No Power – μ-Com Failure



# 1.2 No Power – μ-Com Failure



# 1.2 No Power – $\mu$ -Com Failure

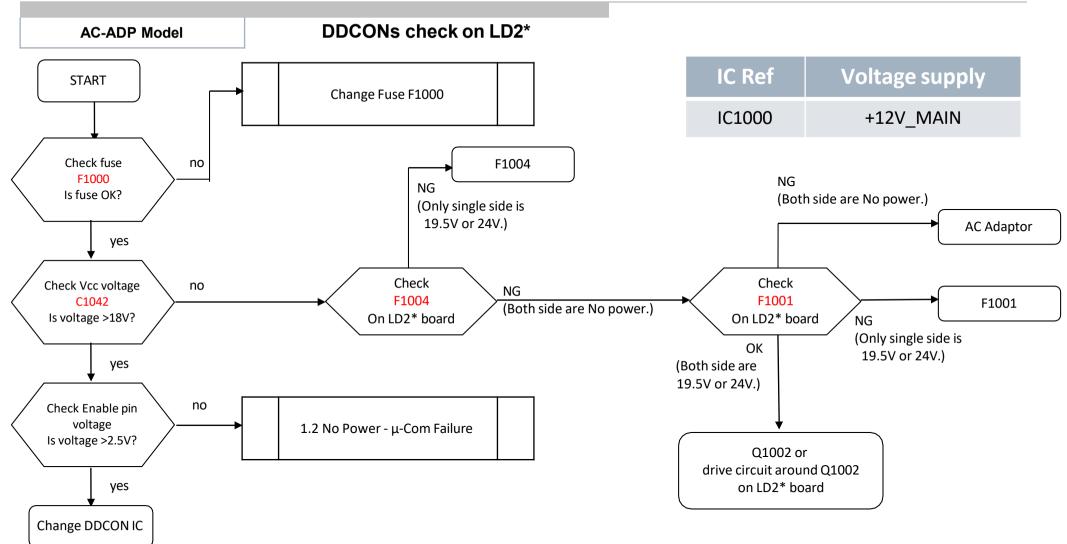


# 1.3 No Power – DDCON/LDO

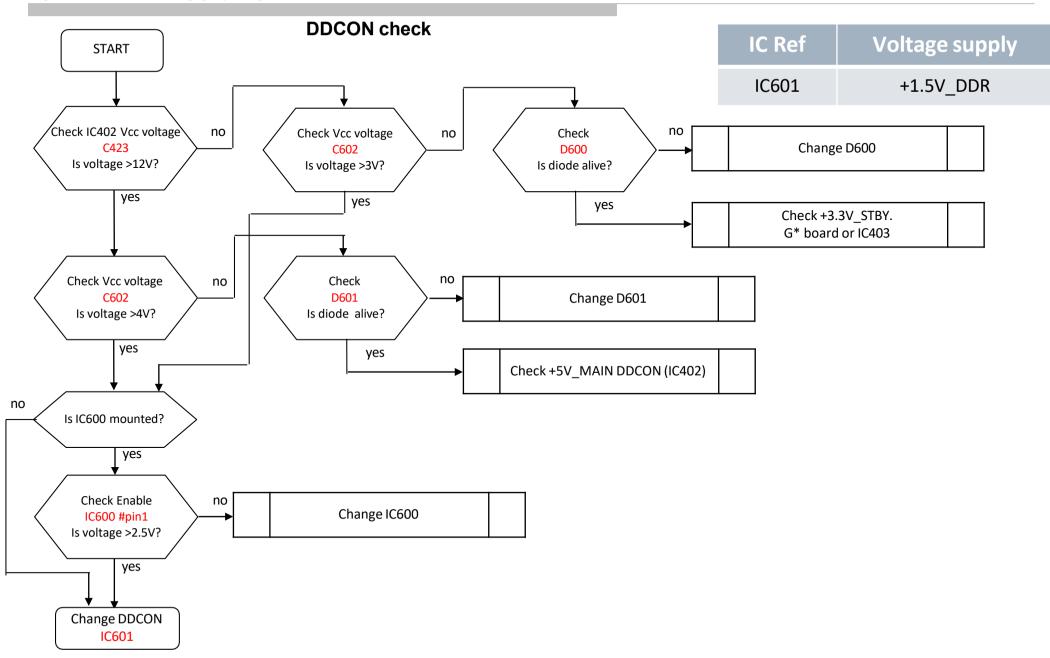
# Check item summary

Board	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
LD2		+12V_MAIN (AC-ADP only)			P-on u-com IC401 #pin10		
ВСН	IC402	+5.0V_VBUS/+5V_MAIN	C430	R455	P-on u-com IC401 #pin13	F400	C423
ВСН	IC403	+3.3V_STBY (AC-ADP only) /+3.3V_MAIN	C445	R467	R464 (POWER_MAIN)	F401	C436
ВСН	Q407	+3.3V_MAIN		Q406	P-on u-com IC401 #pin13		C445
ВСН	IC405	+1.8V_TU/+1.8V_BE	C463	IC405 #PIN5	P-on u-com IC401 #pin12	F403	C461
ВСН	IC404	+1.0V_BE	C456	R480(No M't)	P-on u-com IC401 #pin12	F402	C454
ВСН	IC409	+1.5V_FRC	C478	IC409 #PIN5	P-on u-com IC401 #pin13	F404	C476
ВСН	IC410	+0.95V_FRC	C493	R506	P-on u-com IC401 #pin13	F405	C485
ВСН	IC601	+1.5V_DDR	C609	C605	R603 (3.3V or 5V)	-	C602
ВСН	IC602	+1.05V_M2_STBY	C611	IC602 #PIN3	C610 (+3.3V _STBY)	-	C610
ВСН	IC603	+1.05V_M2_A_1	C613	IC603 #PIN3	P-on u-com IC401 #pin13	-	C612
ВСН	IC604	+1.0V_M2	C625	R623	P-on u-com IC401 #pin12	F600	C618
ВСН	IC605	+1.05V_M2_ST_ET	C631	IC605 #PIN3	M2 IC1000 #AP34	÷	C630
ВСН	IC606	+1.05V_M2_A_2	C633	IC606 #PIN3	P-on u-com IC401 #pin13	-	C632
ВСН	IC607	VCC3IO_EMMC (1.8V)	C635	IC607 #PIN3	P-on u-com IC401 #pin13	-	C634

# 1.3 No Power - DDCON/LDO



# 1.3 No Power - DDCON/LDO



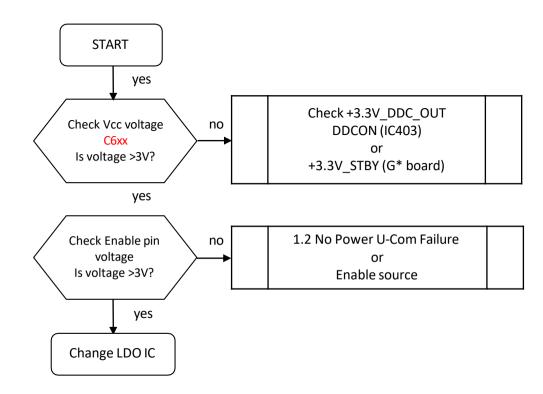
### 1.3 No Power – DDCON/LDO

**DDCONs** check Please refer page 1.3 No Power – DDCON/LDO **Check item summary** for Ref number. **IC** Ref **Voltage supply START** IC402 +5.0V VBUS/+5V MAIN +3.3V STBY (AC-ADP only) IC403 /+3.3V MAIN Check fuse no F4xx or F6xx Change Fuse +1.8V TU/+1.8V BE IC405 Is fuse OK? IC404 +1.0V BE yes +1.5V FRC IC409 1) Check POWER ON P-on u-com #pin10 Check Vcc voltage no (Refer 1.2 No Power U-Com Failure) IC410 +0.95V FRC C4xx or C6xx 2) Check G\* board Is voltage >12.0V? 3) Check IC9000 on JK\* (only AC-ADP Models) IC604 +1.0V M2 yes 1.2 No Power U-Com Failure Check Enable pin no voltage Is voltage >2.5V? Enable source yes Change DDCON IC

# 1.3 No Power - DDCON/LDO

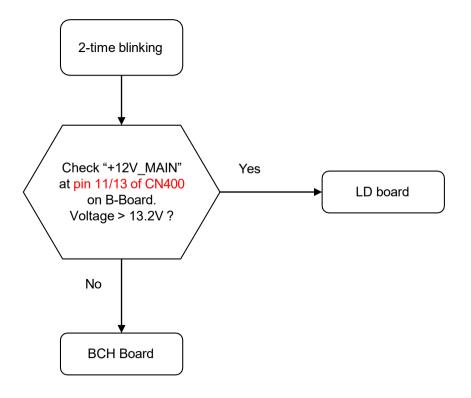
# IC Ref Voltage supply IC602 +1.05V\_M2\_STBY IC603 +1.05V\_M2\_A\_1 IC605 +1.05V\_M2\_ST\_ET IC606 +1.05V\_M2\_A\_2 IC607 VCC3IO\_EMMC (1.8V)

# LDOs check Please refer page 1.3 No Power – DDCON/LDO Check item summary for Ref number.

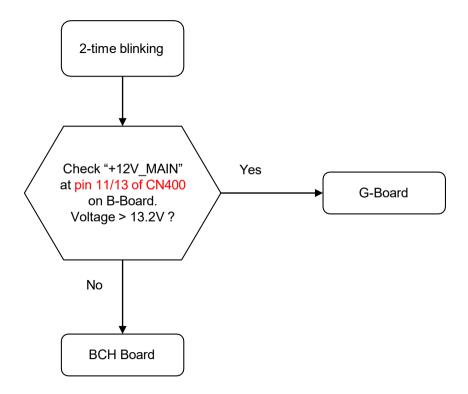


# 2.0 LED Blinking: 2x (Main Power Error)

# **BCH (AC adapter model)**

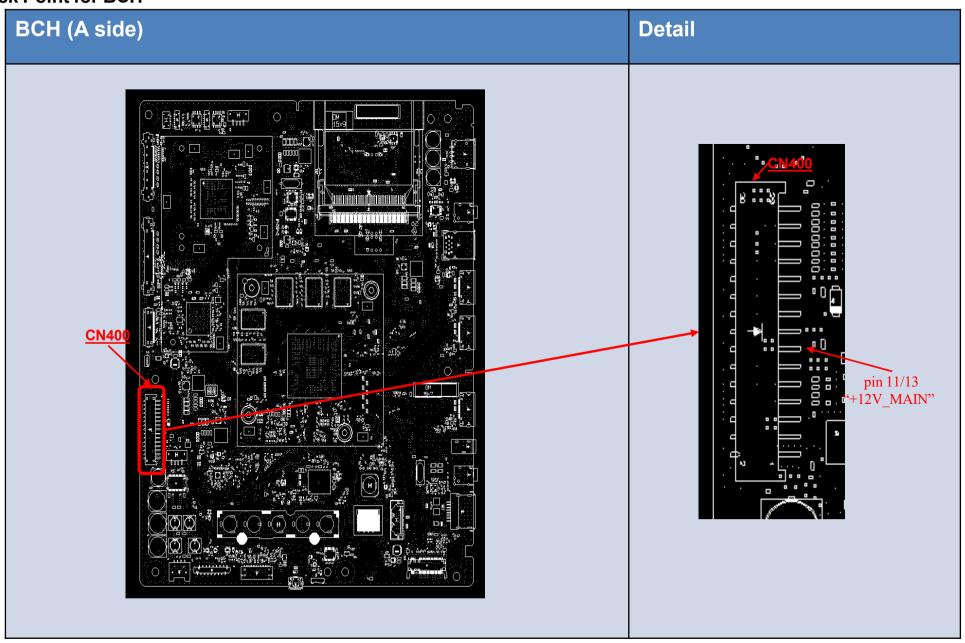


# **BCH (G-Board model)**



# 2.0 LED Blinking: 2x (Main Power Error)

# **Check Point for BCH**

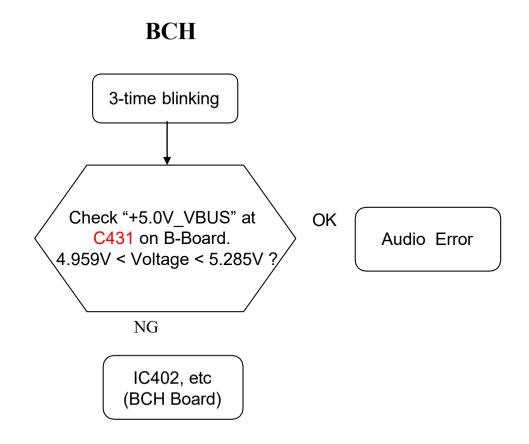


# 2.1 LED Blinking: 3x (DC Alert)

# **Details of 3x LED blinking**

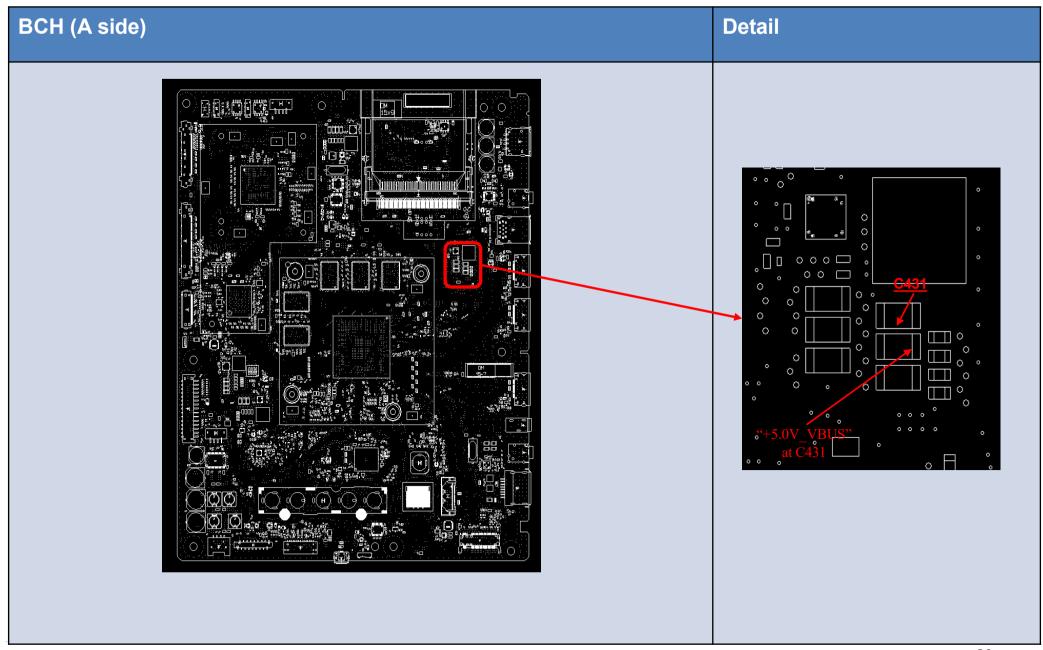
	Error Item	Number of STBY LED flashing	Description
Trinity3	DC_ALERT	3	Main board 5V power rail monitoring
TillityS	AUD_ERR	3	Audio amp error detection

Trinity3 Board: BCH



# 2.1 LED Blinking: 3x (DC Alert)

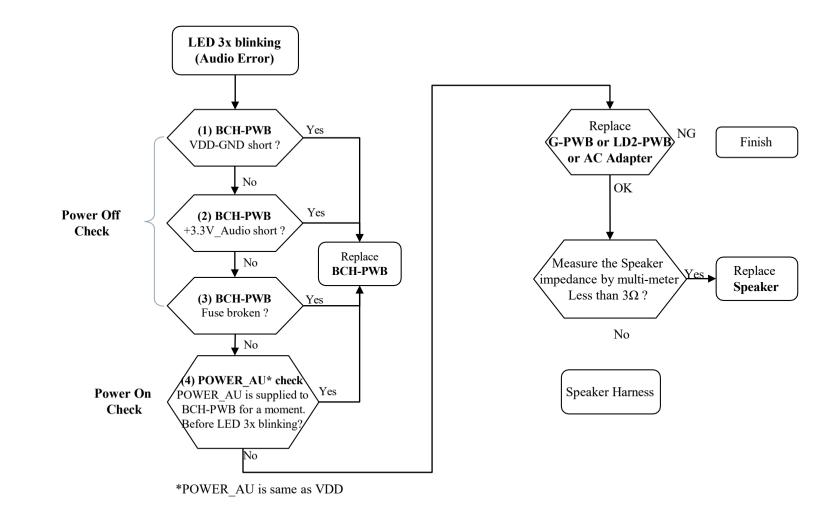
# **Check Point for BCH**



# 2.2 LED Blinking: 3x (Audio Error)

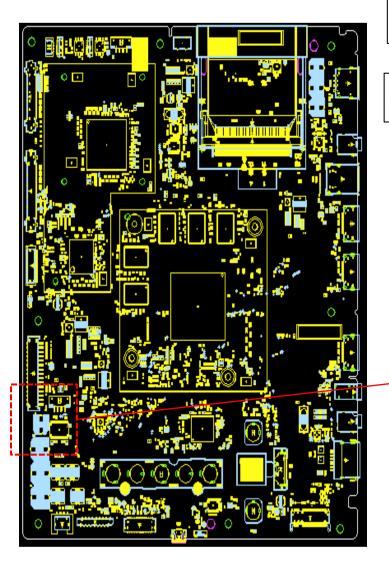
# **Detail of 3x LED Blinking**

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



# 2.2 LED Blinking: 3x (Audio Error)

### **BCH-PWB**



(1) VDD-GND short check

Measure impedance between VDD and GND at capacitor C3244.

impedance is  $<100\Omega \rightarrow NG$ 

(2) +3.3V Audio short check

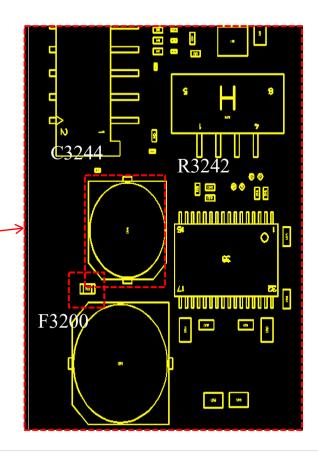
Measure impedance between +3.3V and GND at R3242(1). impedance is  $<100\Omega \rightarrow NG$ 

(3) Fuse open check Measure impedance of fuse F3200 5A (12.5V or 19.5V) fuse open → NG

(4) POWER AU check

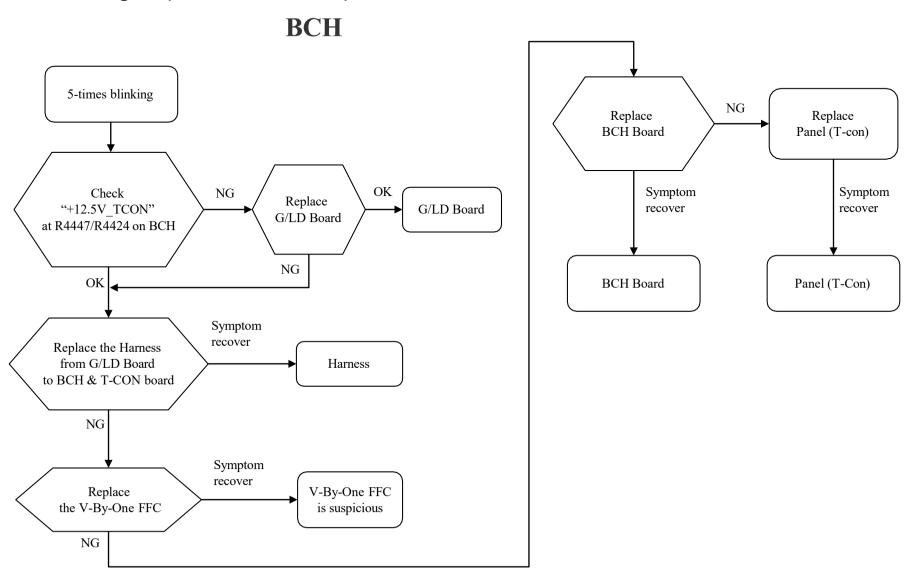
Measure voltage at capacitor C3244.

voltage is  $< \rightarrow NG$ 



# 2.5 LED Blinking: 5x (Panel ID Read Error)

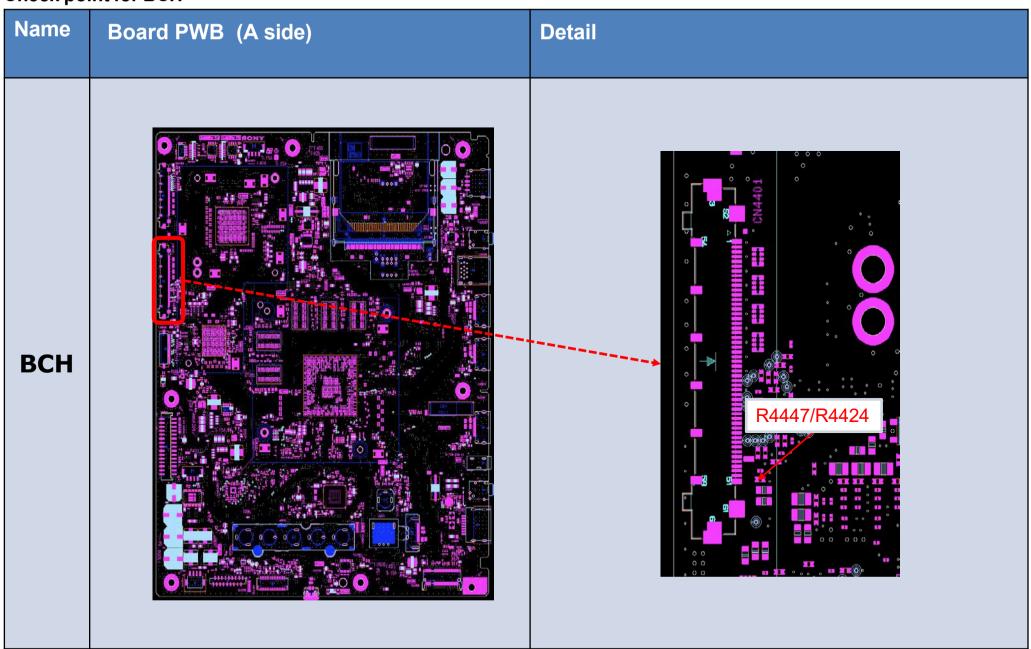
# **LED Blinking: 5x (Panel ID Read Error)**



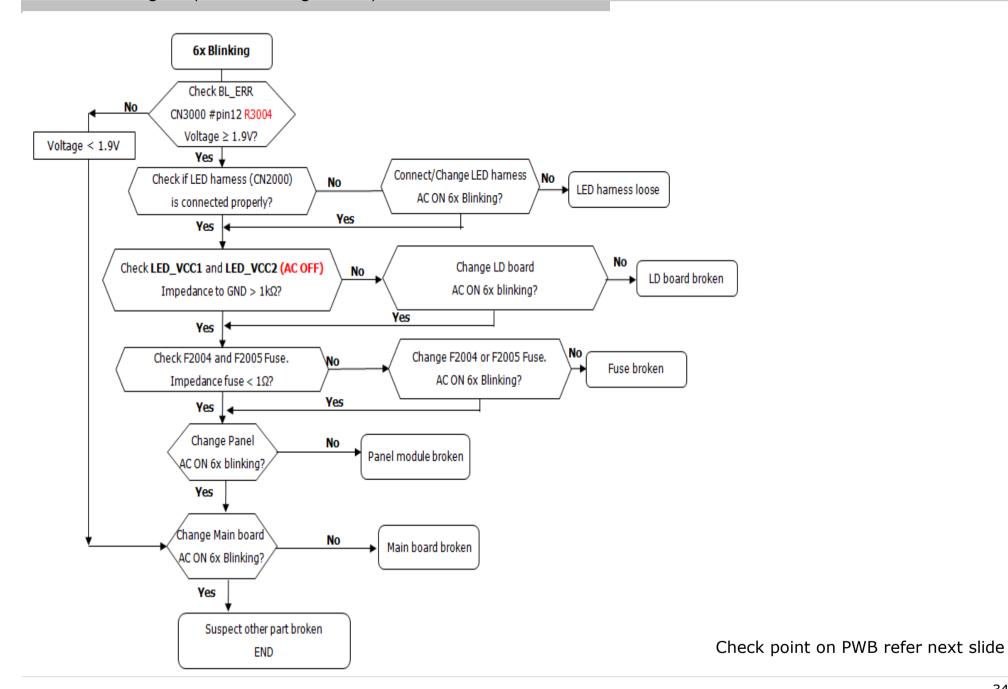
G/LD Board: G board or LD board

# 2.5 LED Blinking: 5x (Panel ID Read Error)

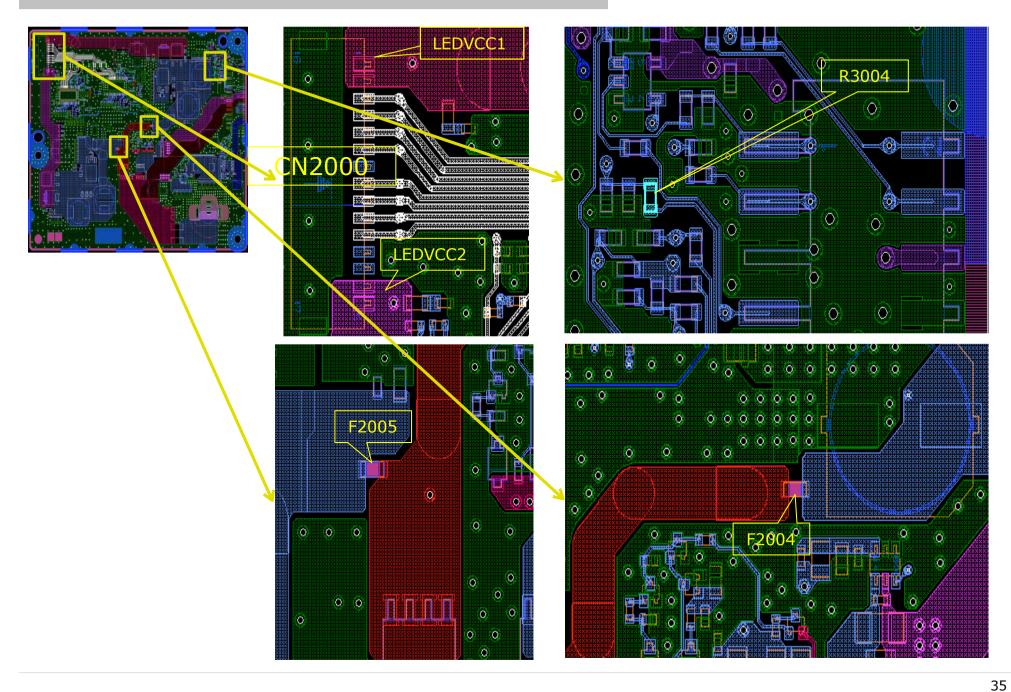
# **Check point for BCH**



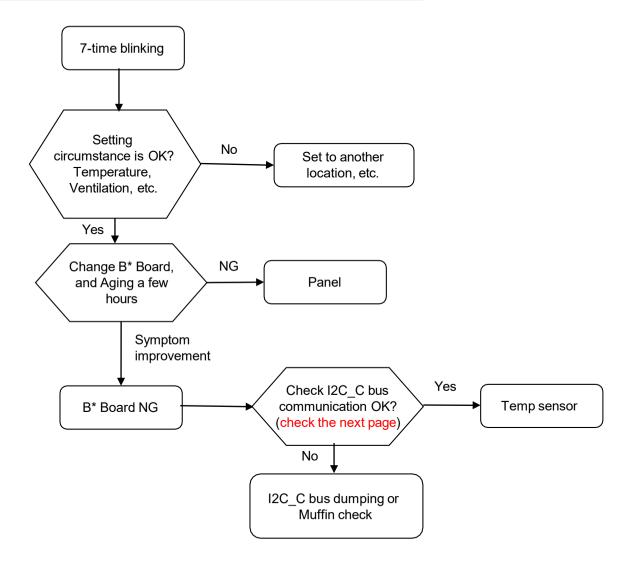
# 2.6 LED Blinking: 6x (Panel Backlight Error)



# 2.6 LED Blinking: 6x (Panel Backlight Error)

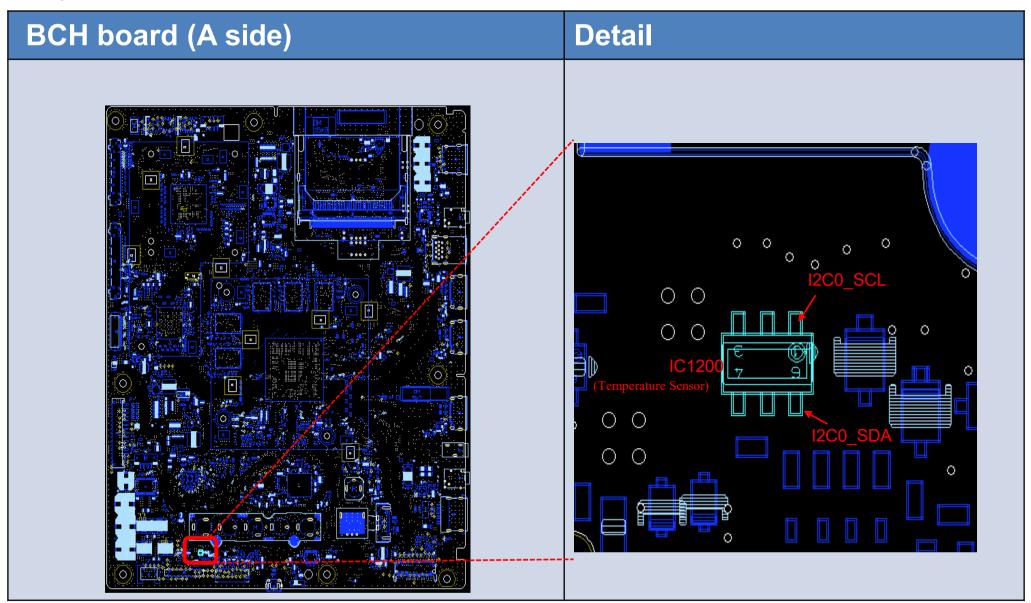


# 2.7 LED BLINKING: 7x (Temperature Error)



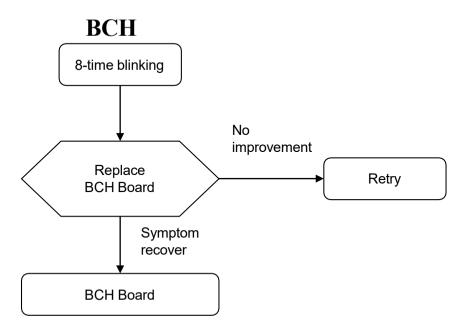
# 2.7 LED BLINKING: 7x (Temperature Error)

# **Check point for BCH**

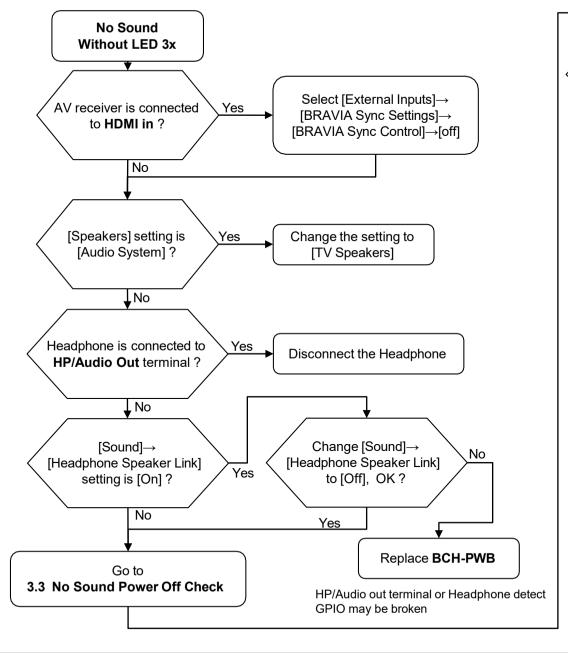


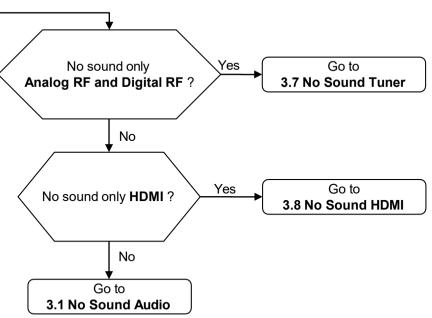
# 2.8 LED Blinking: 8x (4KPQ/BE Error)

# LED Blinking: 8x (4KPQ Error)

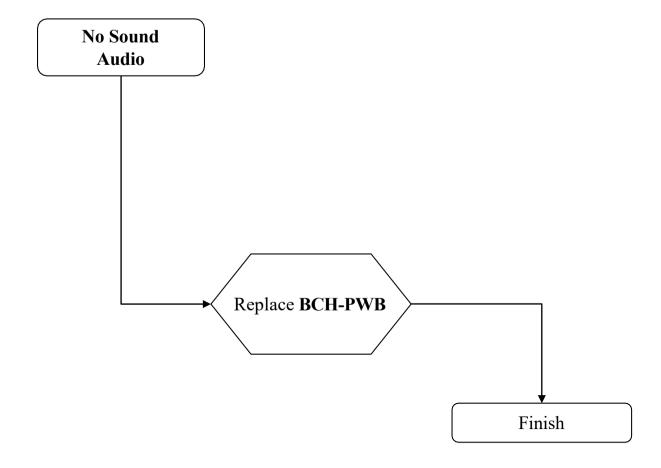


#### 3.0 No Sound

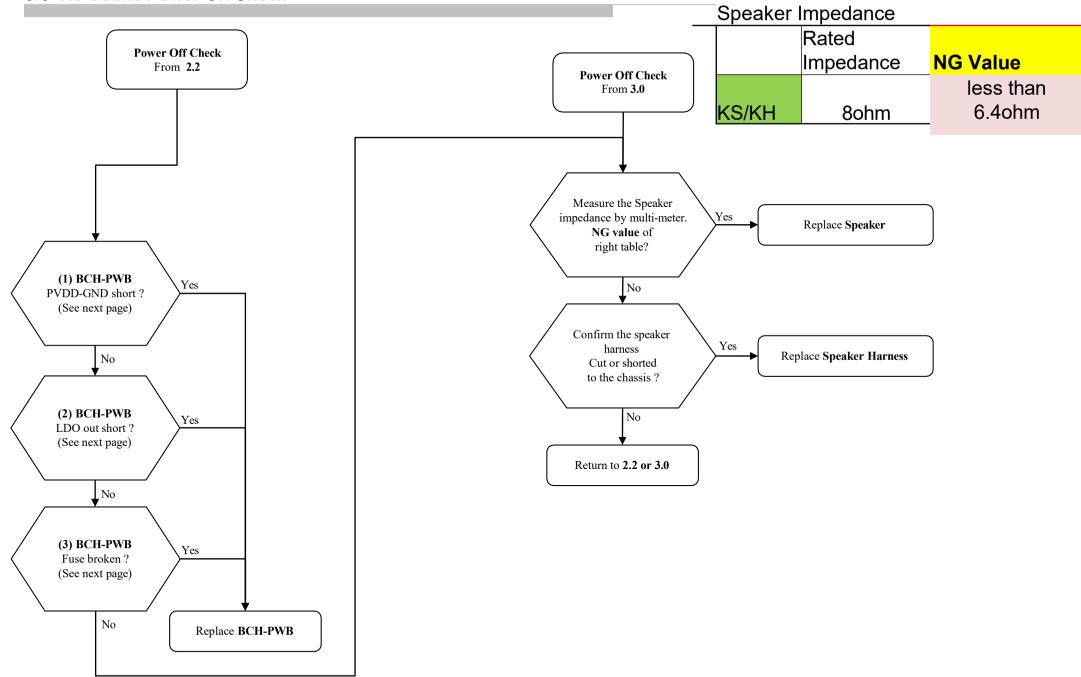




# 3.1 No Sound Audio

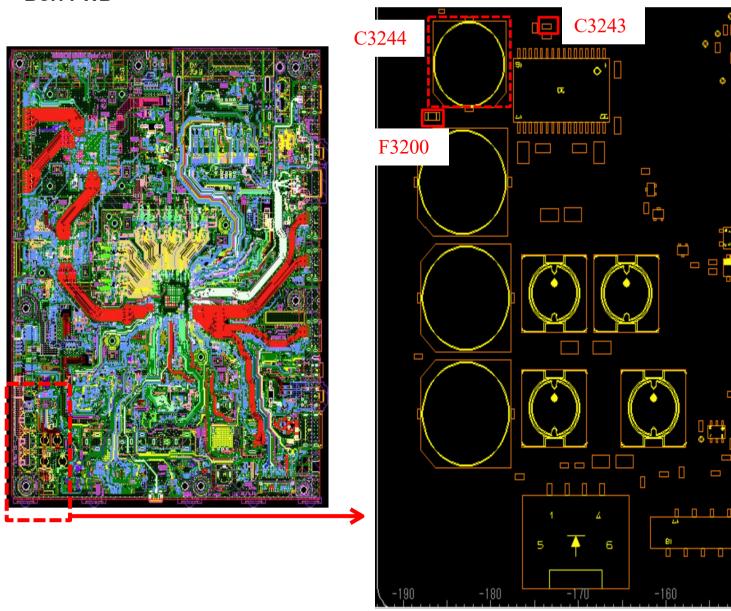


## 3.3 No Sound Power Off Check



### 3.3 No Sound Power Off Check

#### **BCH-PWB**



## (1) PVDD-GND short check

Measure impedance between PVDD and GND at capacitor C3244.

After a few minutes waiting, if impedance is  $<100\Omega \rightarrow NG$ 

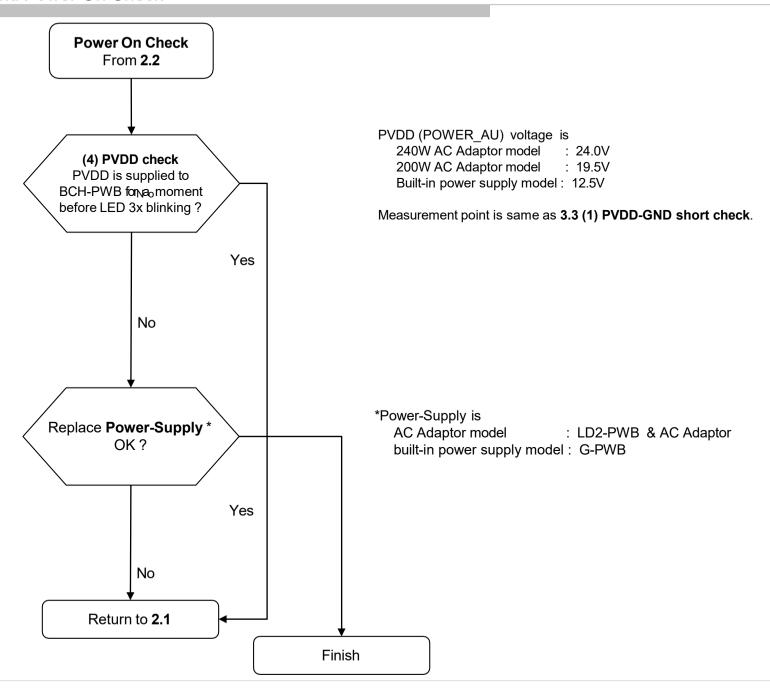
## (2) 3.3V short check

Measure +3.3V voltage at C3243. If voltage is < 2.7V → NG

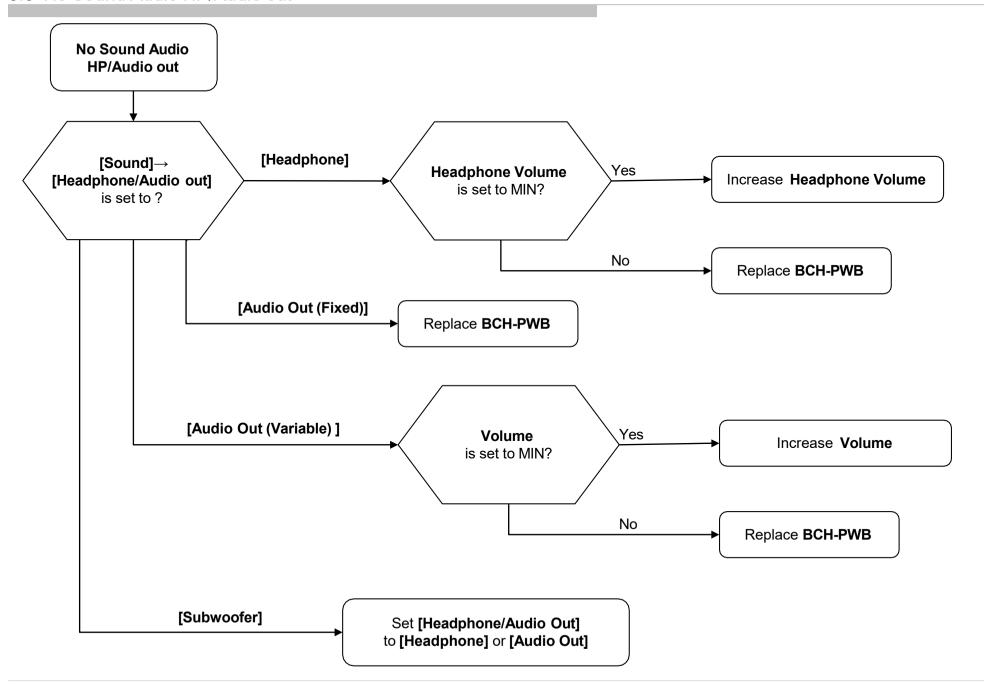
## (3) Fuse open check

Measure impedance of fuse F3200 5A . If fuse open  $\rightarrow$  NG

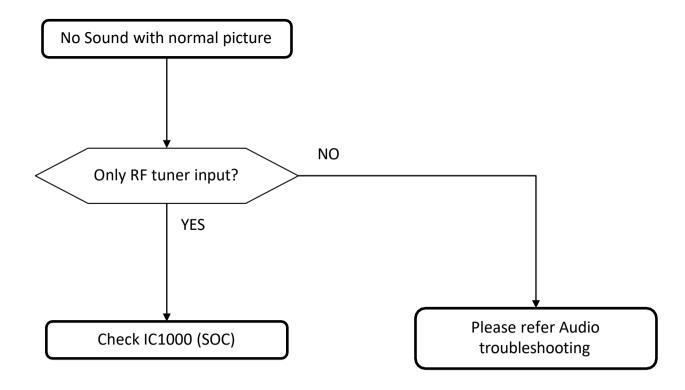
#### 3.4 No Sound Power On Check



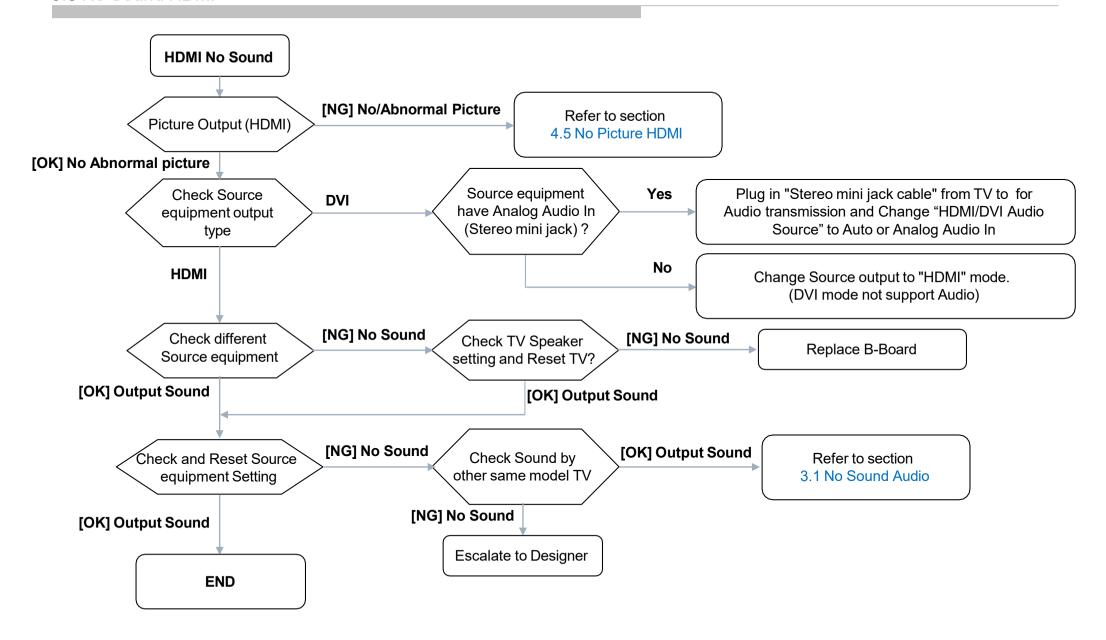
#### 3.5 No Sound Audio HP/Audio out



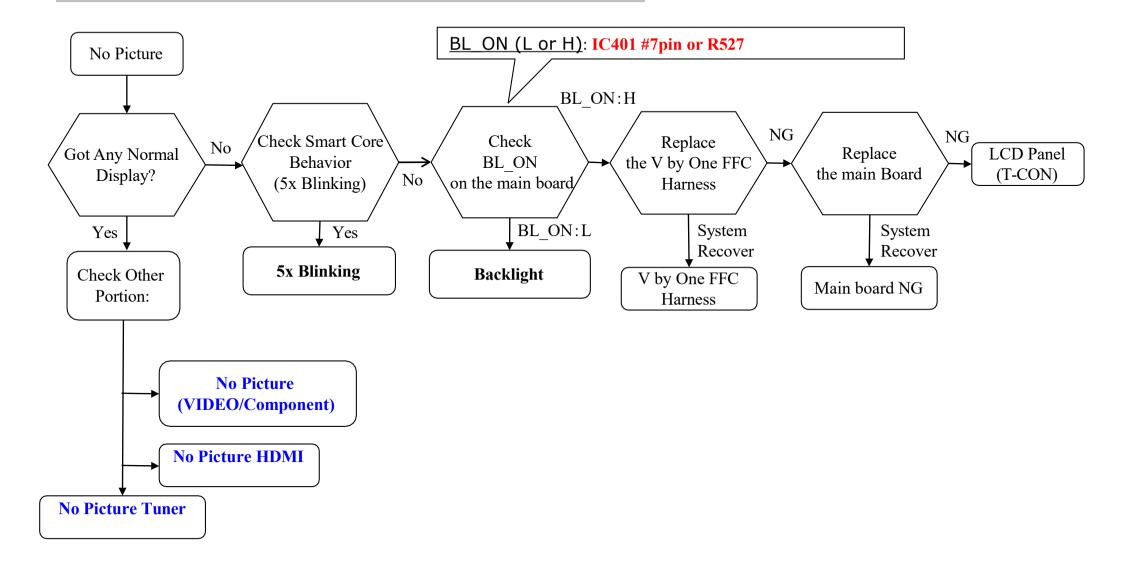
# 3.7 No Sound Tuner



#### 3.8 No Sound HDMI

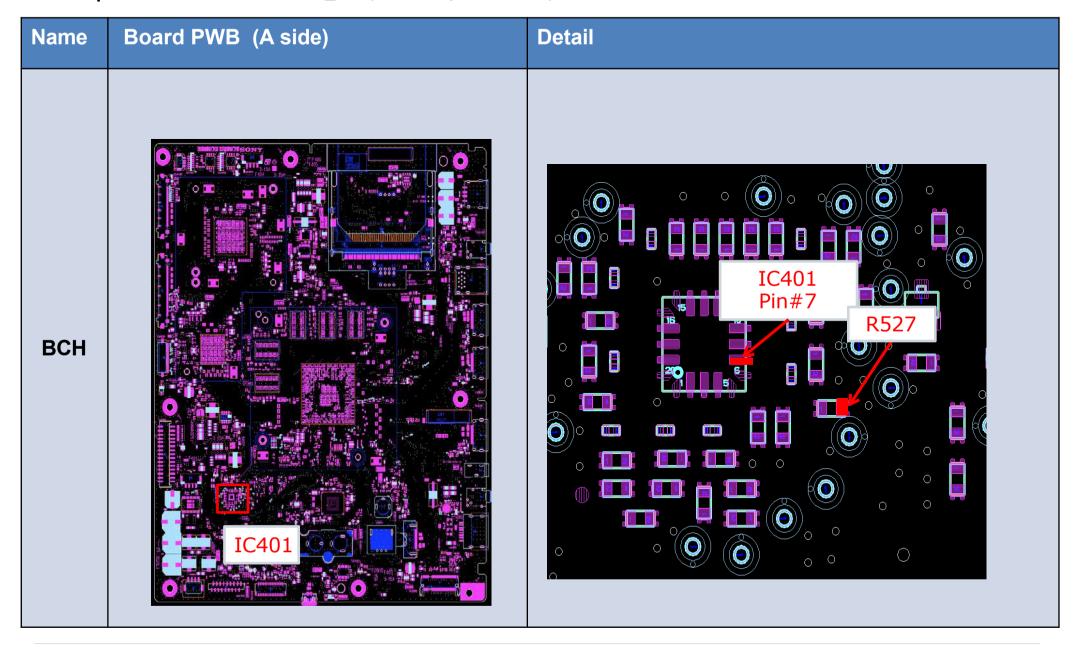


#### 4.0 No Picture

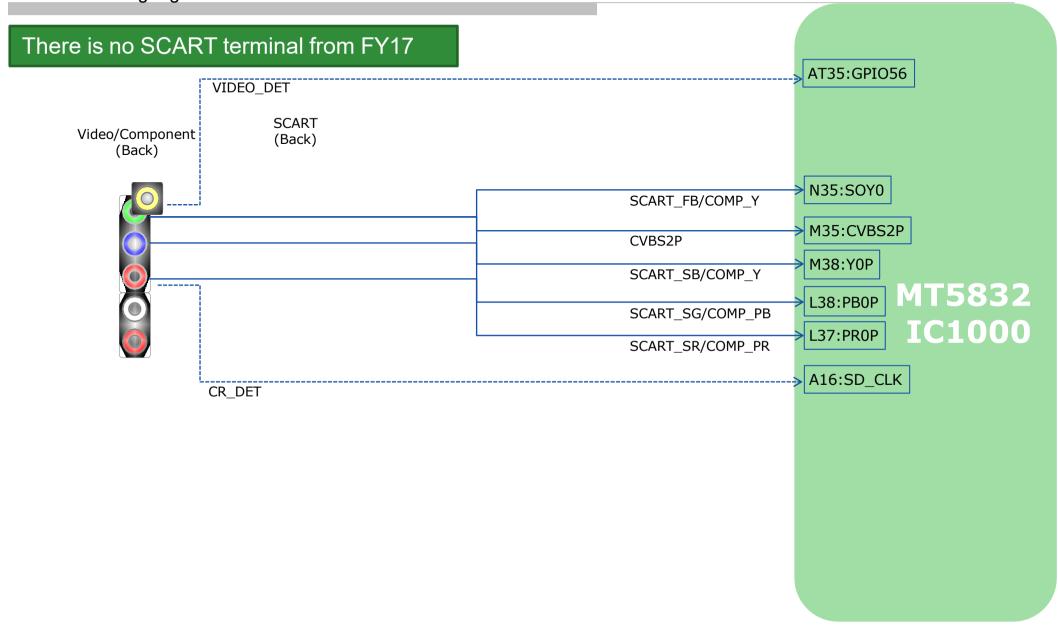


## 4.0 No Picture

Check point for BCH BL\_ON (IC401 #7pin or R527)

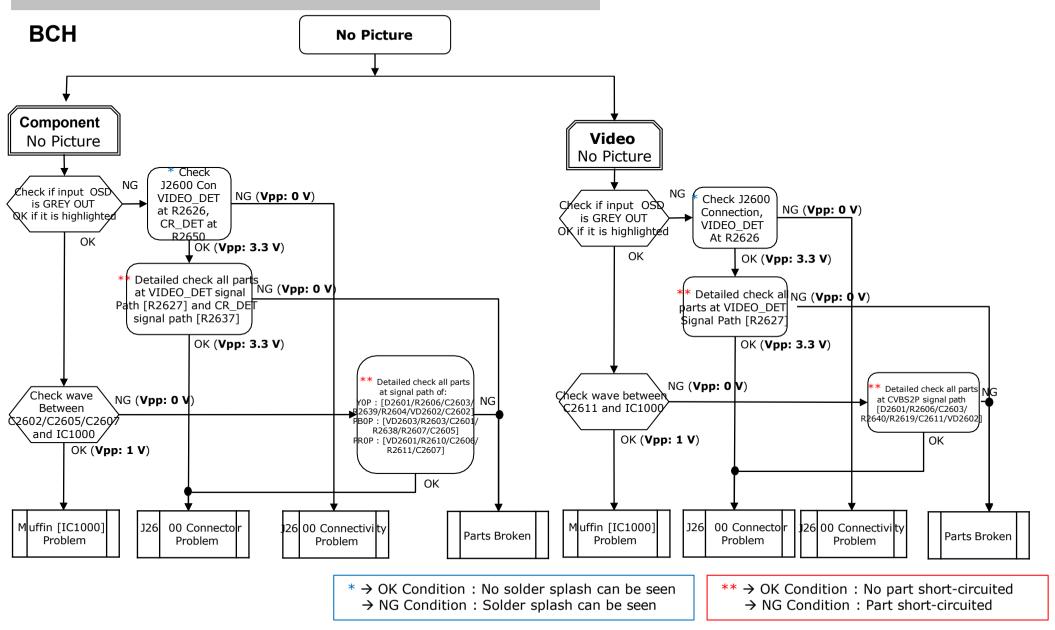


# 4.1 Video Analog Signal Path



# \$0NY

## 4.2: No Picture (Component/Video)



[All voltage measurement using Oscilloscope]



# 4.2 : No Picture (Component/Video)

Condition	Actions to be taken
Muffin [IC1000] Problem	Refer to IC troubleshooting for further investigation
J2600 Connector Problem	Change Connector
J2600 Connectivity Problem	
Parts Broken	Change Part

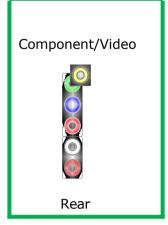
2023/11/28 11:28:19 (GMT+09:00)



# 4.2 : No Picture (Component/Video)

# Input Skip function (BCH)

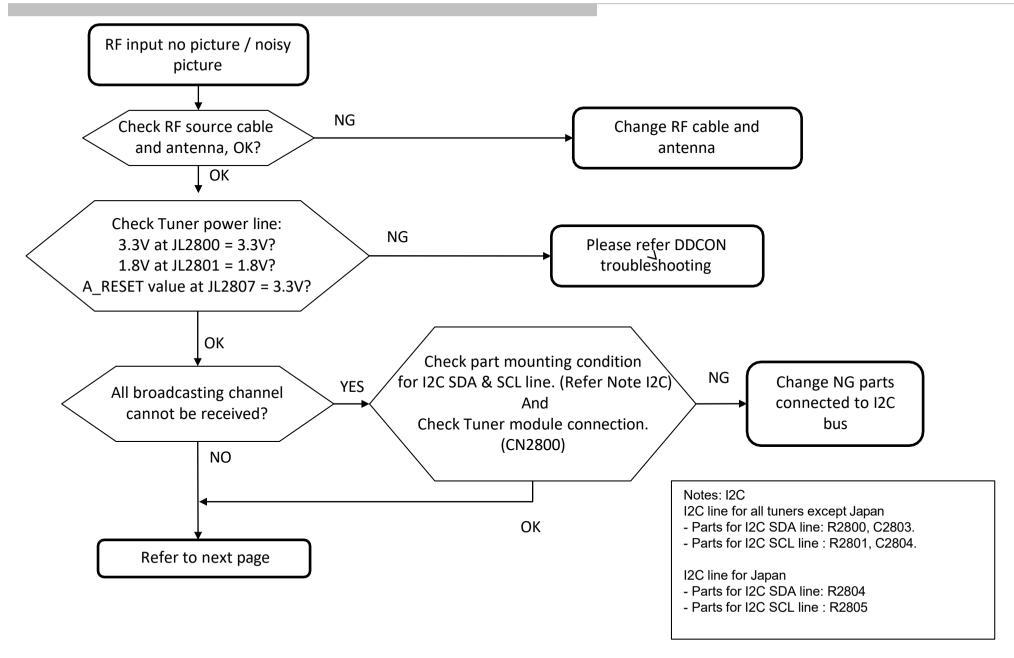
Input	Signal	Non-Detect (Typical)	Detect (Typical)
Component /Video	VIDEO_DET IC1000 AT35-GPIO56	0V	3.3V
	CR_DET IC1000 A16-SD_CLK	0V	3.3V



Except AEP

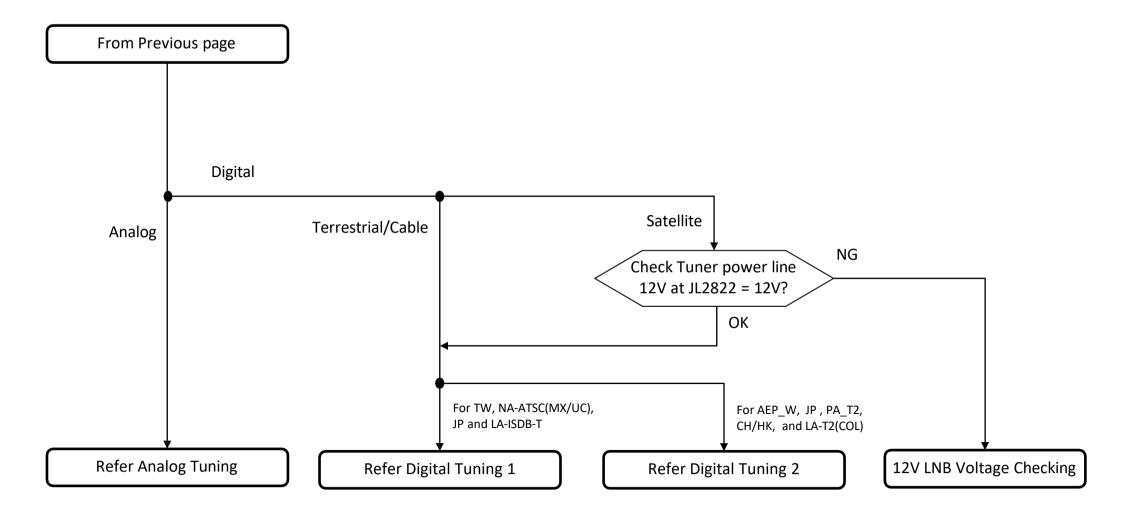


## 4.4 No Picture Tuner





## 4.4 No Picture Tuner

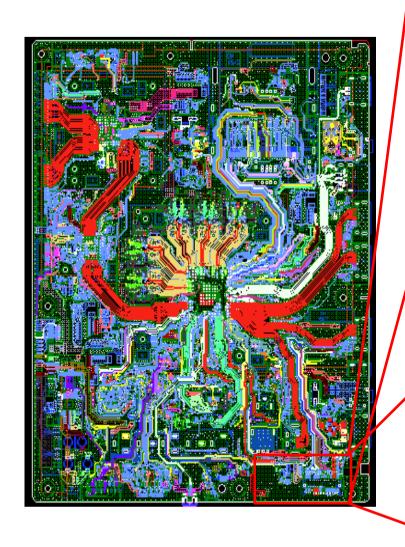


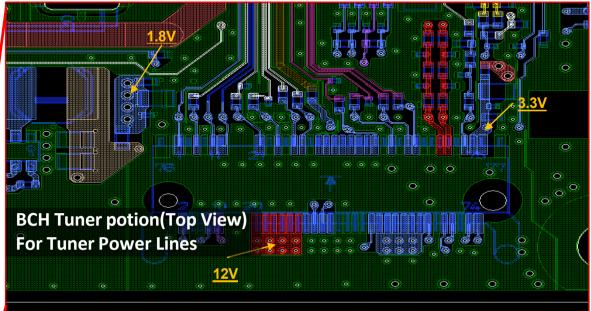
2023/11/28 11:28:19 (GMT+09:00)

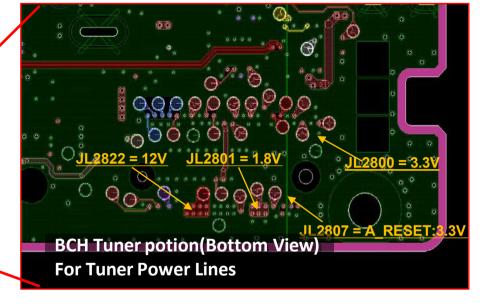
## \$0NY

## 4.4 No Picture Tuner

# BCH (Top View) For Tuner Power Lines







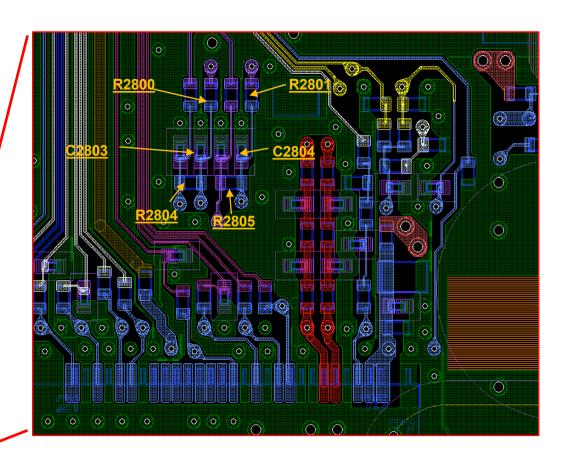
2023/11/28 11:28:19 (GMT+09:00)



# 4.4 No Picture Tuner

# BCH (Top View) For Tuner I2C line

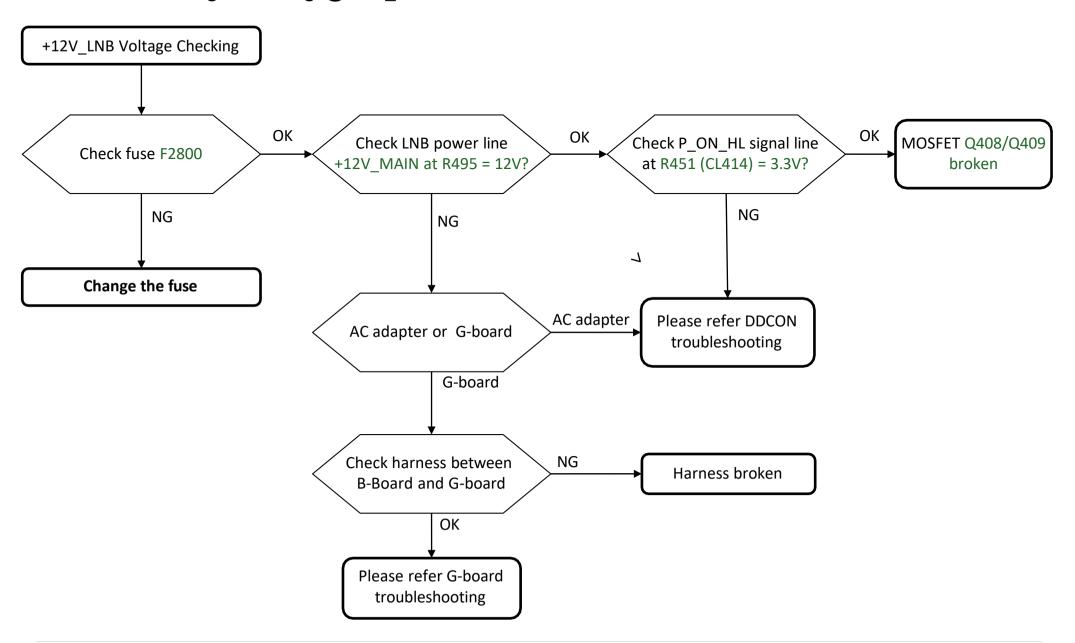






## 4.4 No Picture Tuner

## FOR 12V LNB Voltage Checking: @ AEP\_W and JP

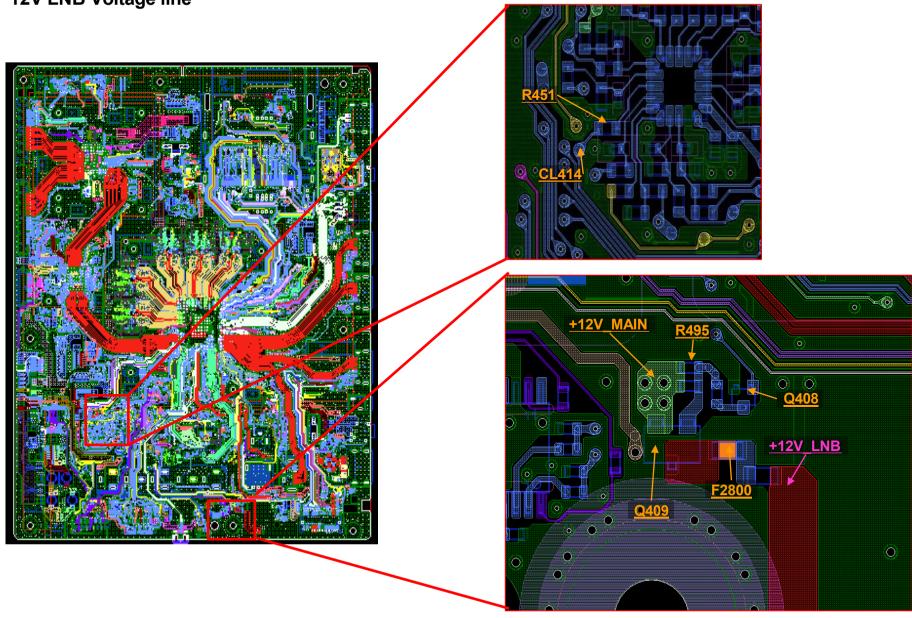


2023/11/28 11:28:19 (GMT+09:00)

## SONY

# 4.4 No Picture Tuner

# BCH (Top View) 12V LNB Voltage line

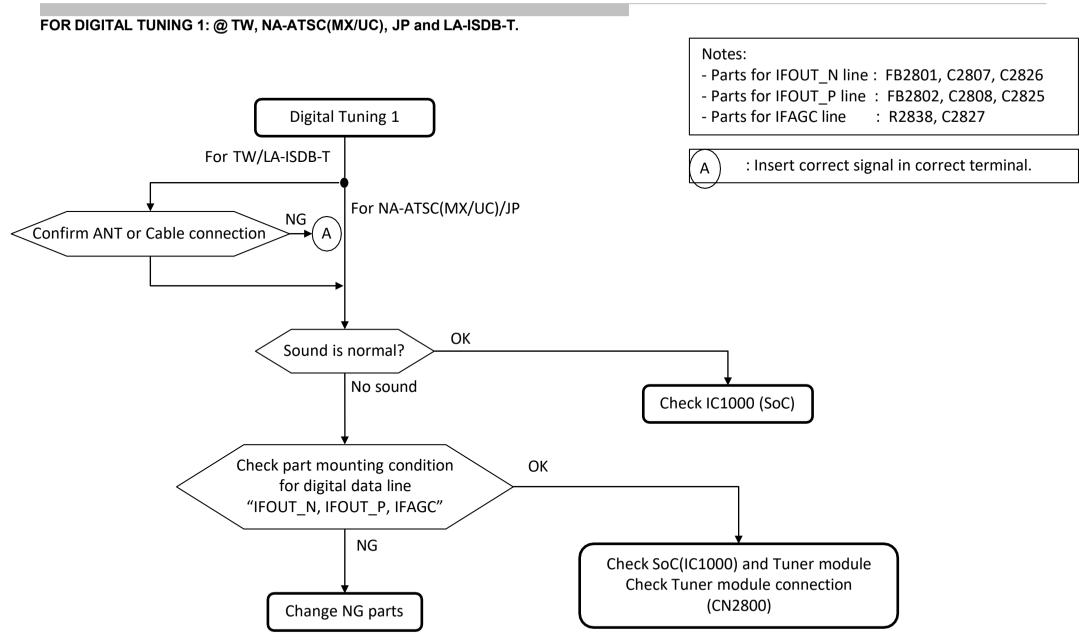




# 4.4 No Picture Tuner Notes: - Parts for IFOUT N line: FB2801, C2807, C2826 FOR ANALOG TUNING: @ All destination except JP - Parts for IFOUT Pline: FB2802, C2808, C2825 - Parts for IFAGC line : R2838, C2827 For LA-ISDB(BR/AR), LA-T2(COL) and TW only : Insert correct signal in correct terminal. **Analog Tuning** NG For Other destination Confirm ANT or Cable connection ОК Can it preset broadcast? OK NG Check IC1000 (SoC) Check part mounting condition for analog control line OK "IFOUT N, IFOUT P, IFAGC" NG Check IC1000 (SoC) & Tuner module connection (CN2800) Change NG parts

# YIMOÈ

### 4.4 No Picture Tuner

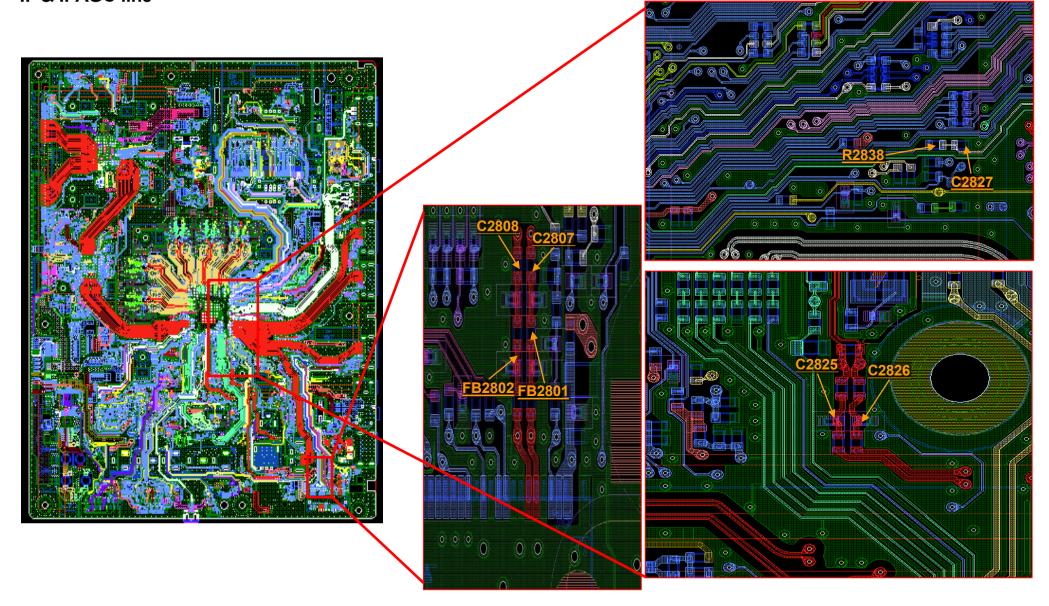


2023/11/28 11:28:19 (GMT+09:00)

## \$@NY

# 4.4 No Picture Tuner

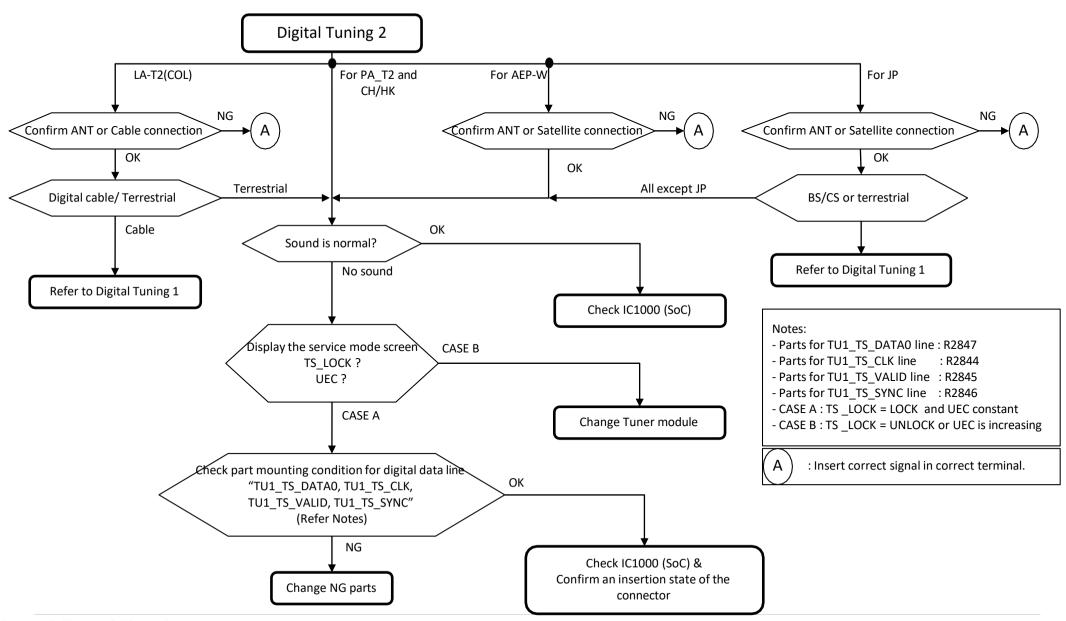
# BCH(Top View) IF & IFAGC line



# \$0NY

## 4.4 No Picture Tuner

#### FOR DIGITAL TUNING 2: @ AEP\_W, JP, PA\_T2, CH/HK, and LA-T2(COL)

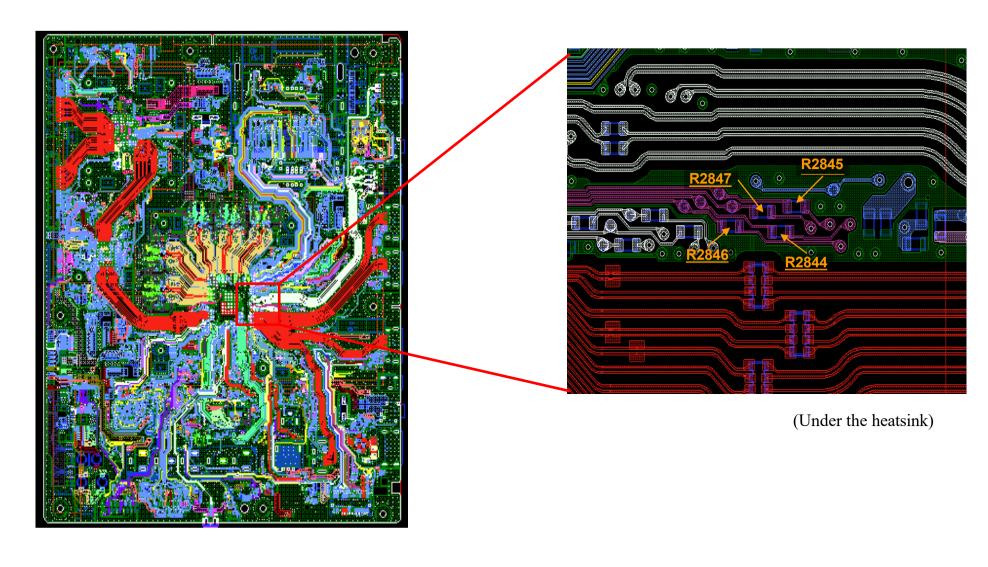


2023/11/28 11:28:19 (GMT+09:00)

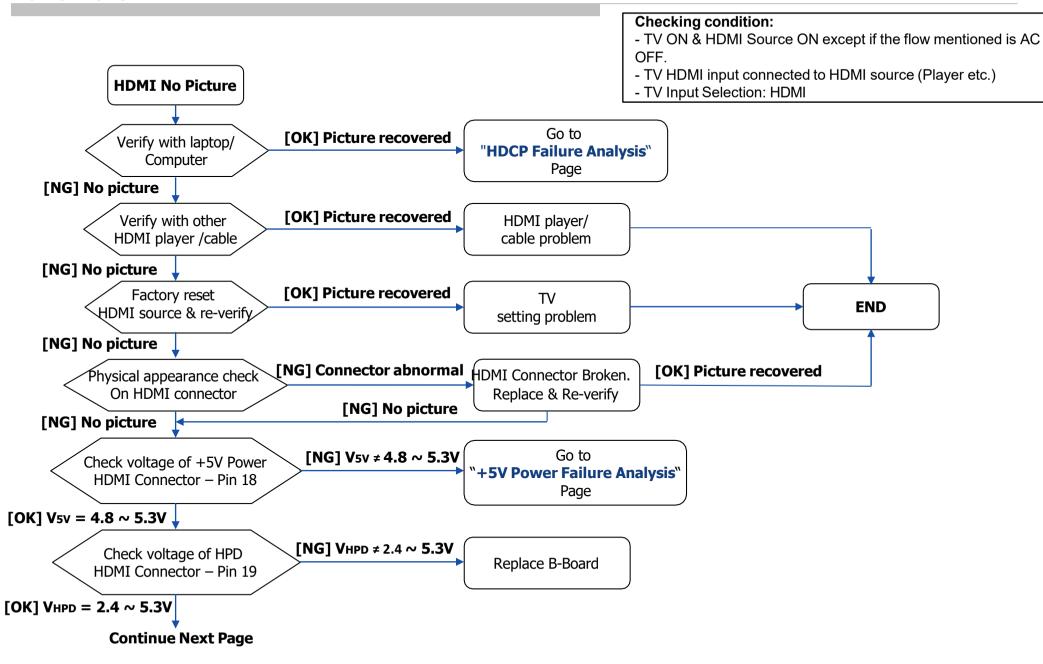


# 4.4 No Picture Tuner

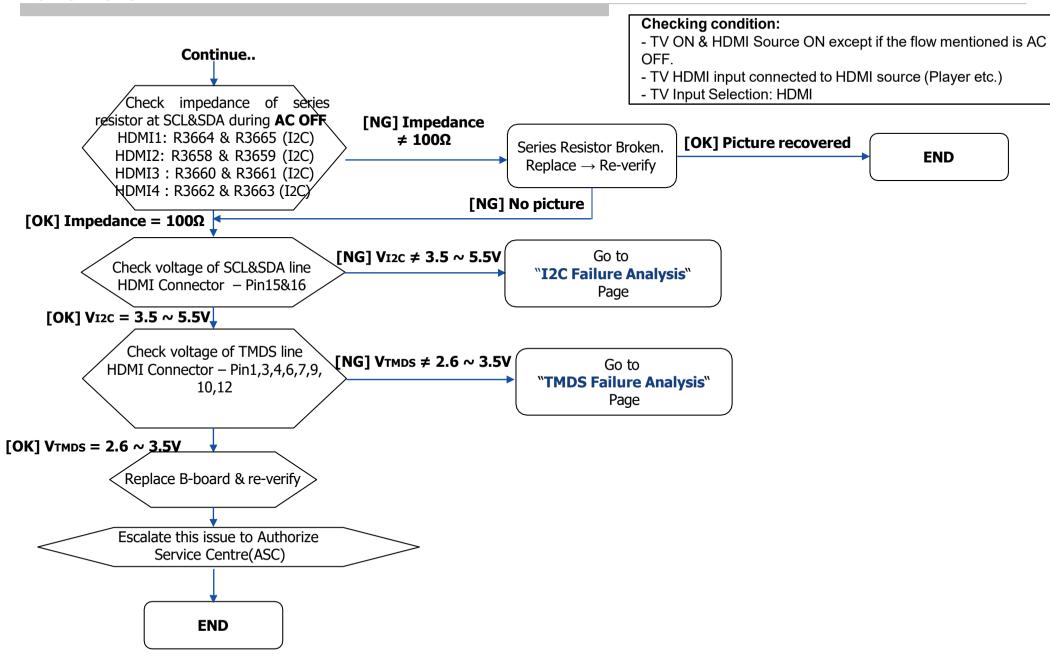
# BCH(Top View) TS1 line



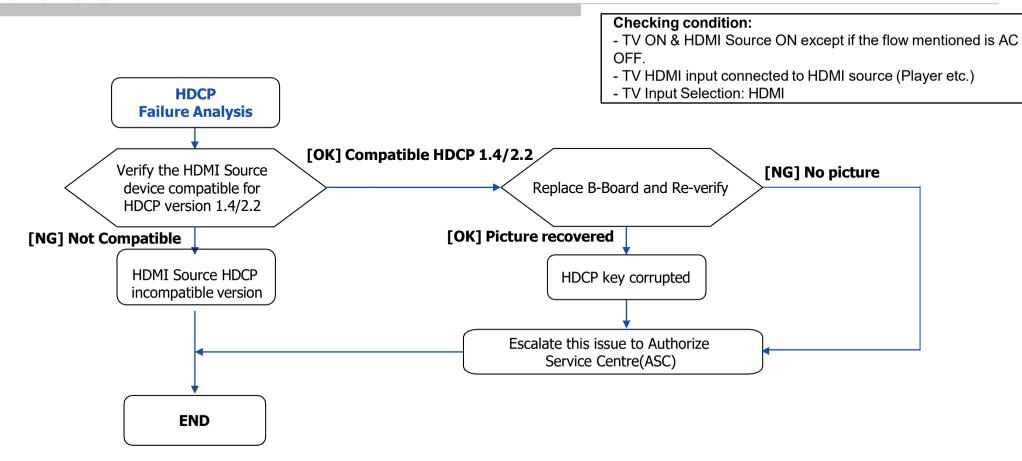
# SONY



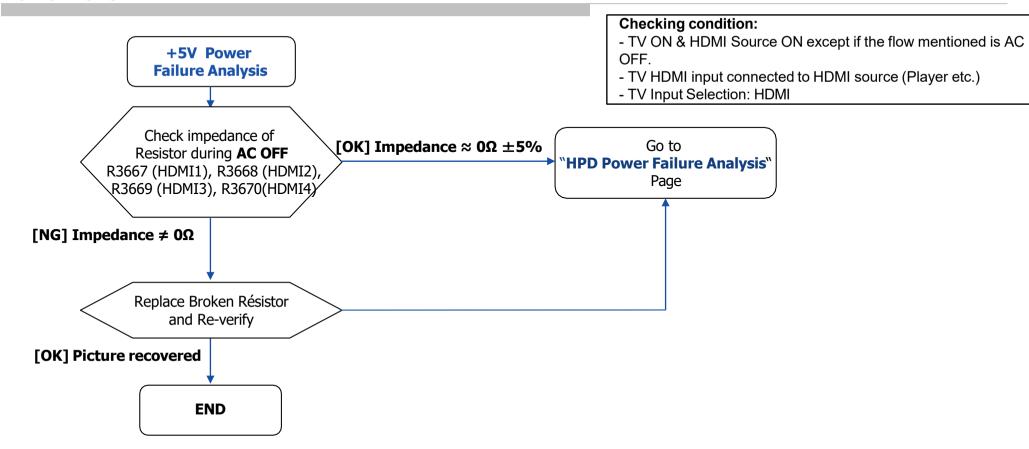
# SONY



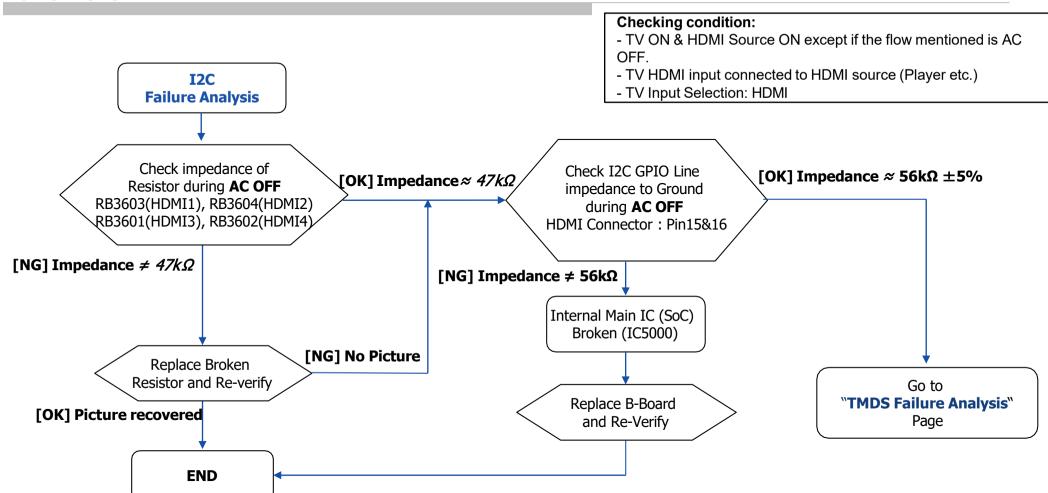




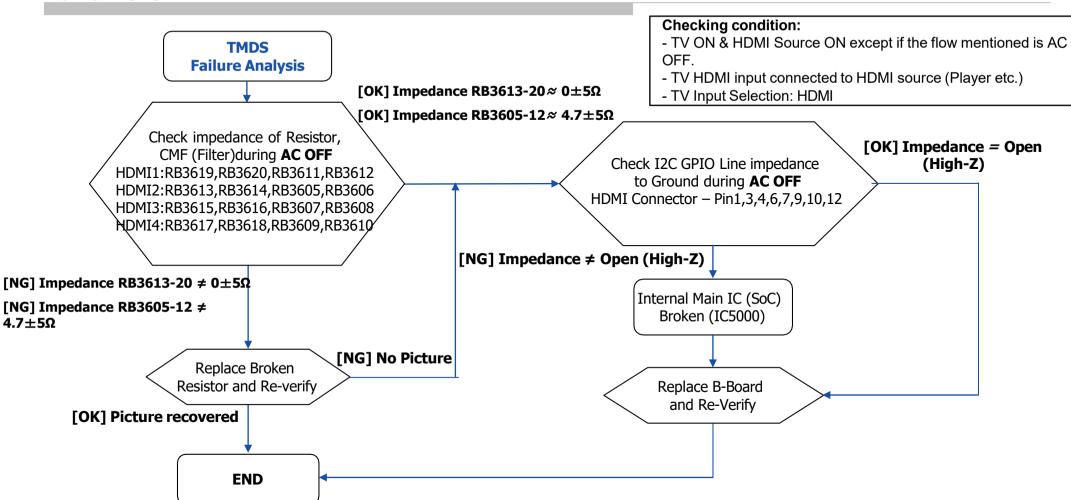






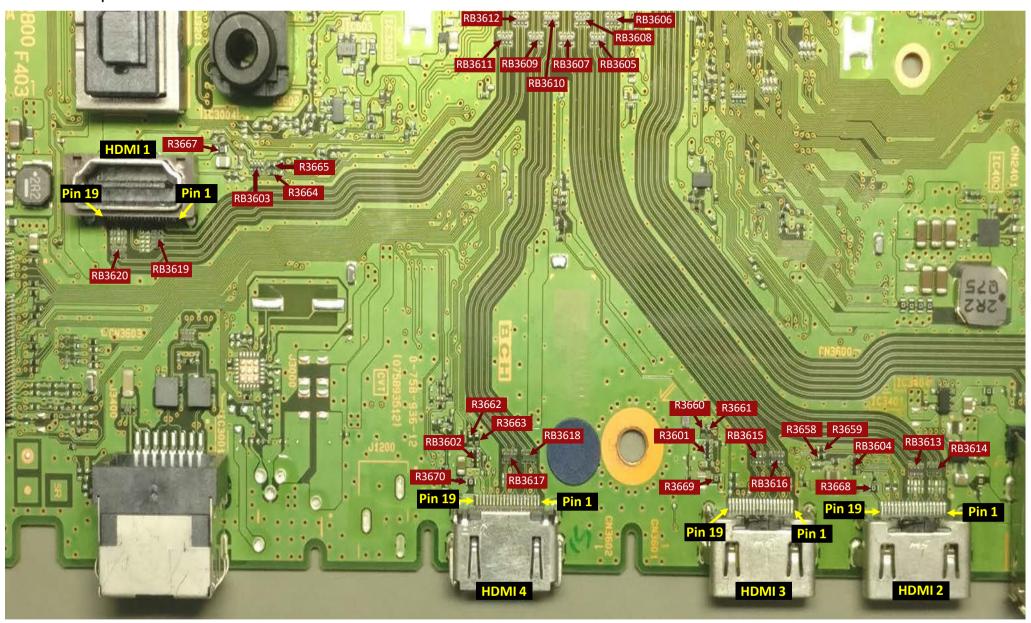






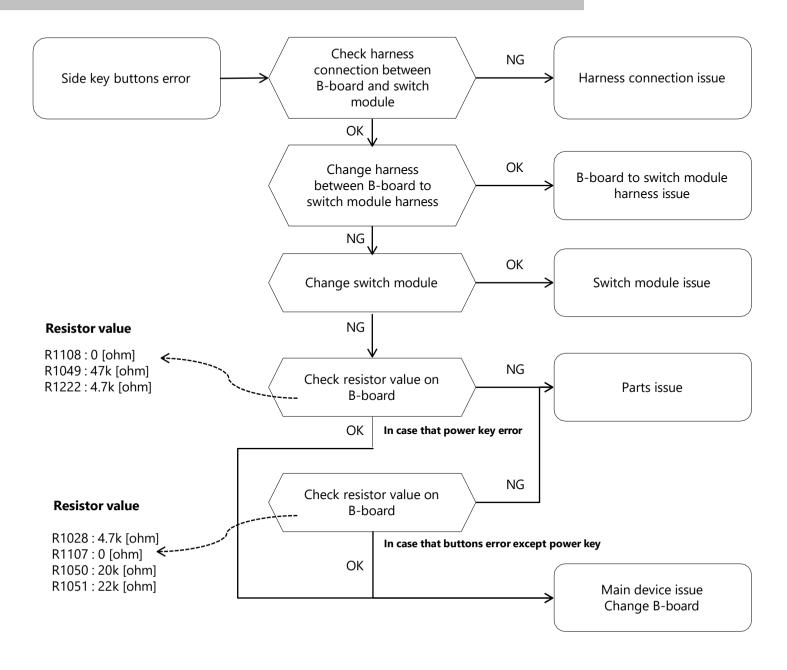


# HDMI – No picture



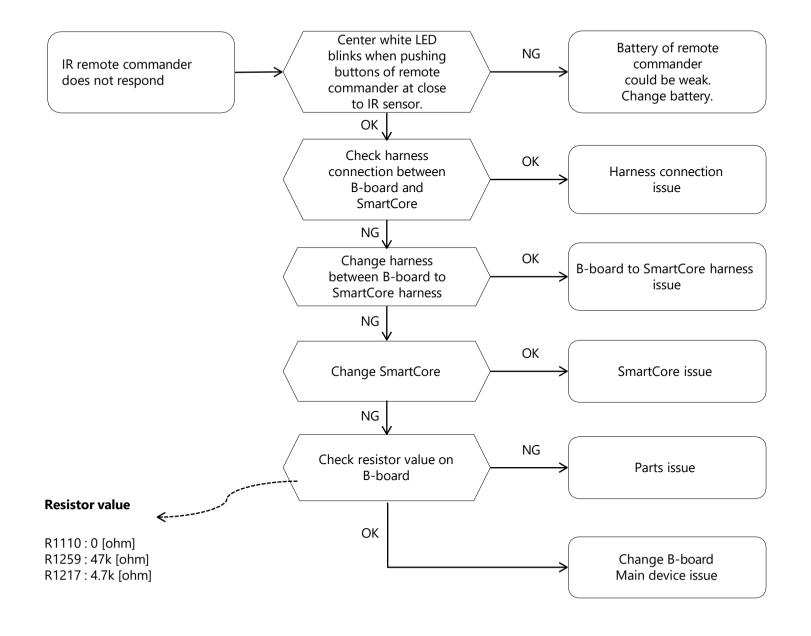


# 5.0 Key Switch Buttons Error



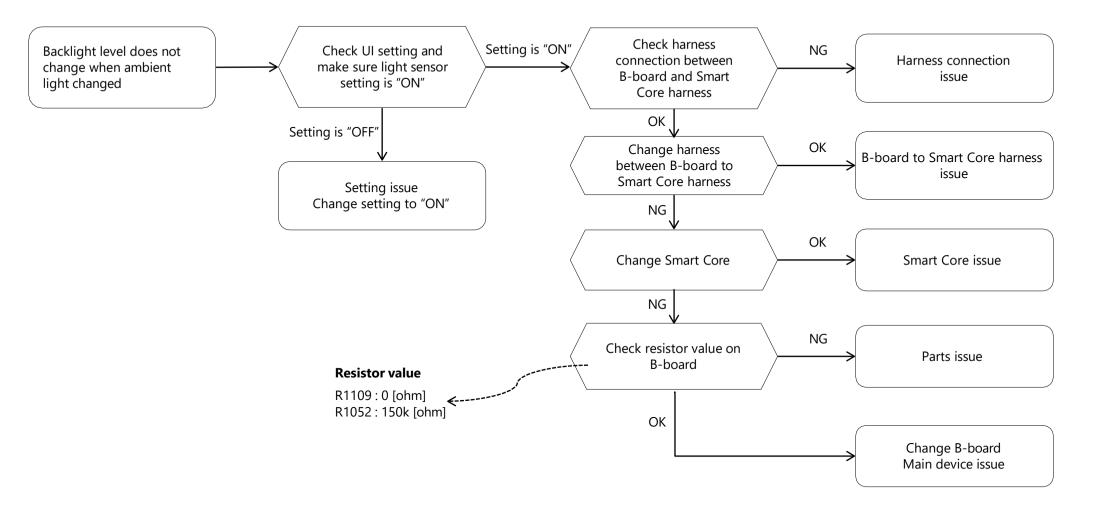


## 5.1 IR Remote Commander Error





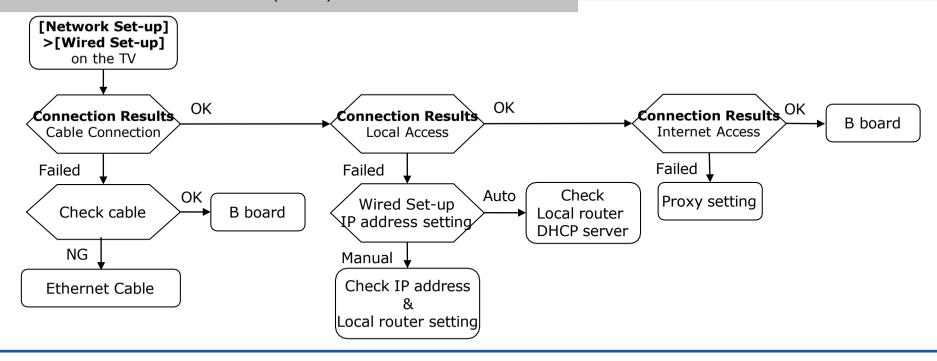
# 5.2 Light Sensor Error



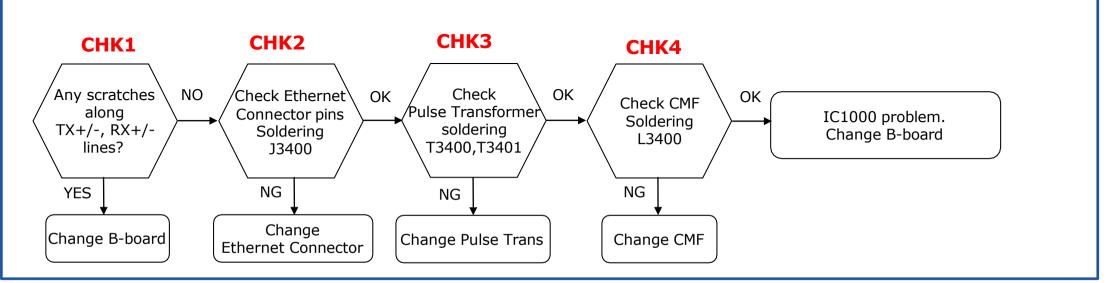
2023/11/28 11:28:19 (GMT+09:00)

# SONY

### 6.0 Network Malfunction: Ethernet (Wired)



# **B** Board

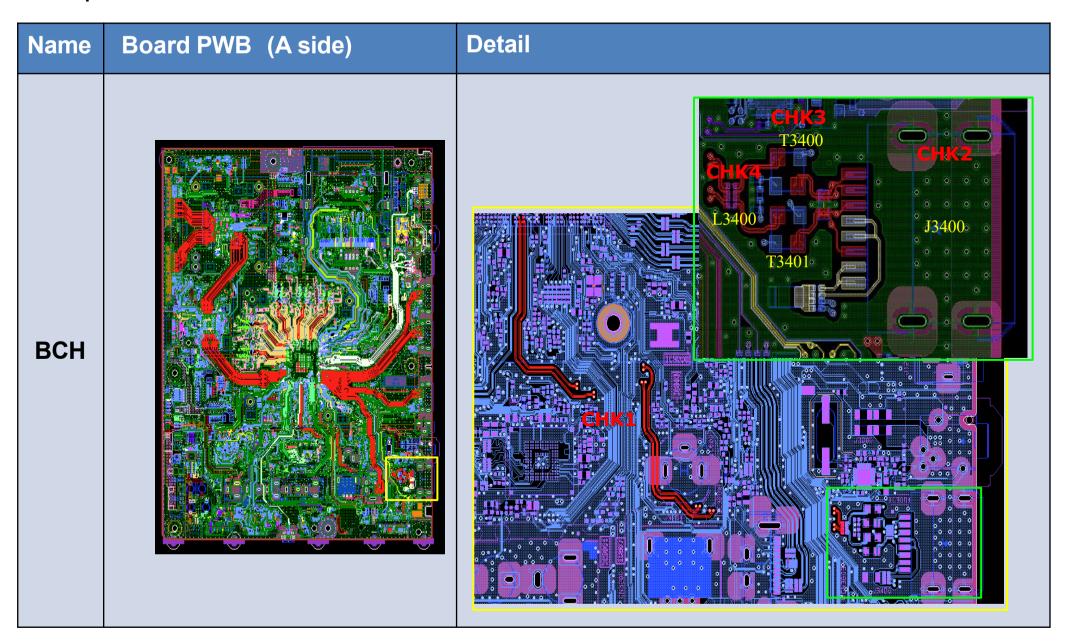


2023/11/28 11:28:19 (GMT+09:00)

# YMOS

# 6.0 Network Malfunction: Ethernet (Wired)

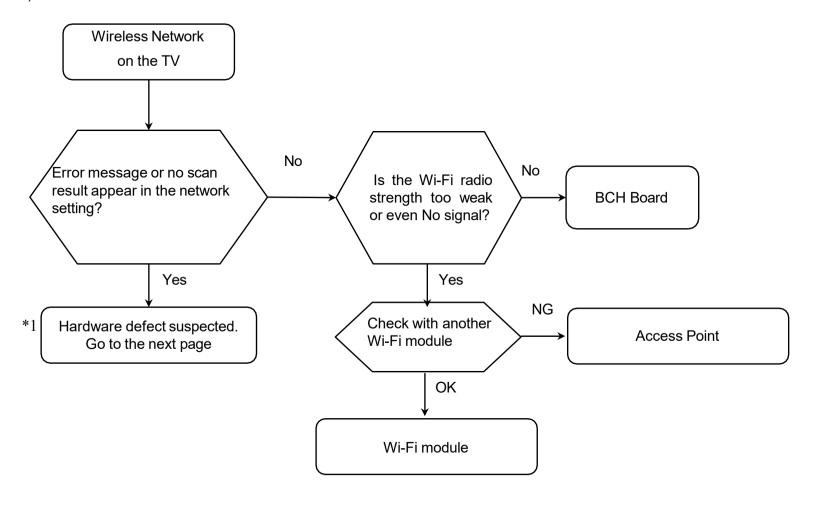
# **Check point for BCH**





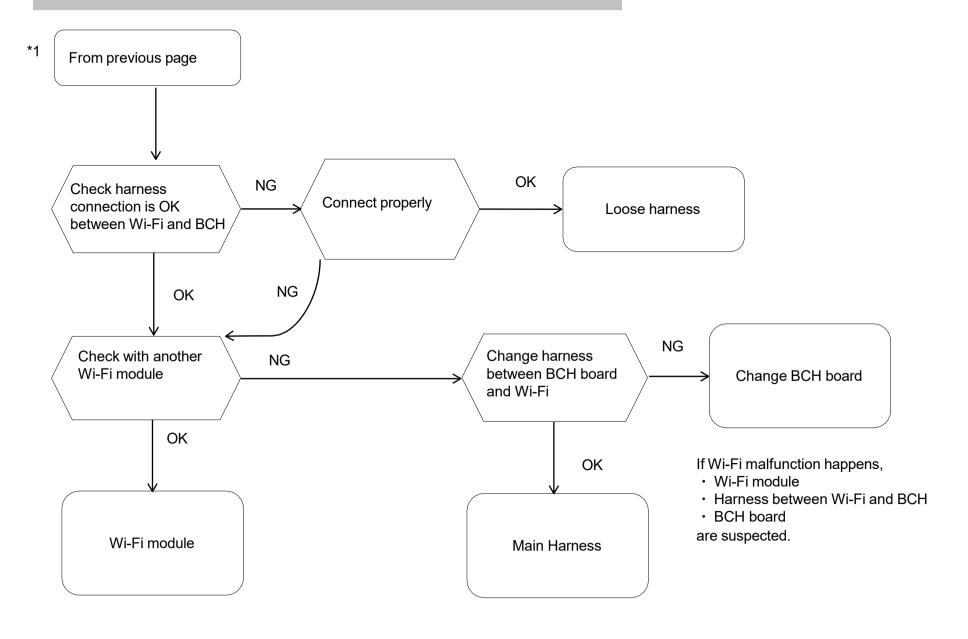
### 6.2 Wireless Network malfunction

### 1) Internal Wireless Network malfunction



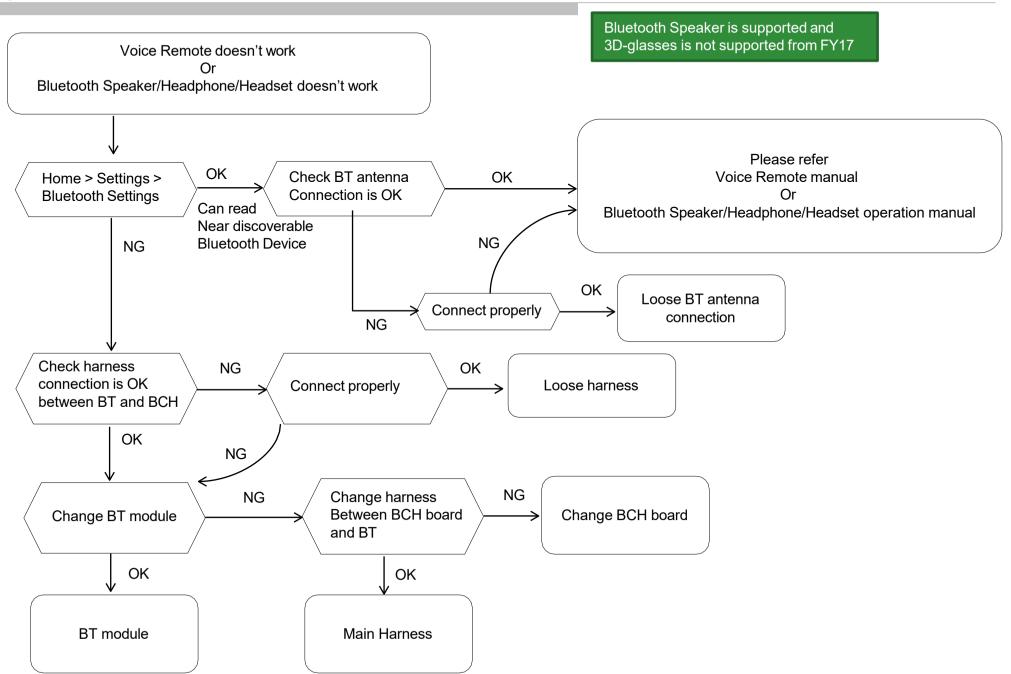


### 6.2 Wireless Network malfunction

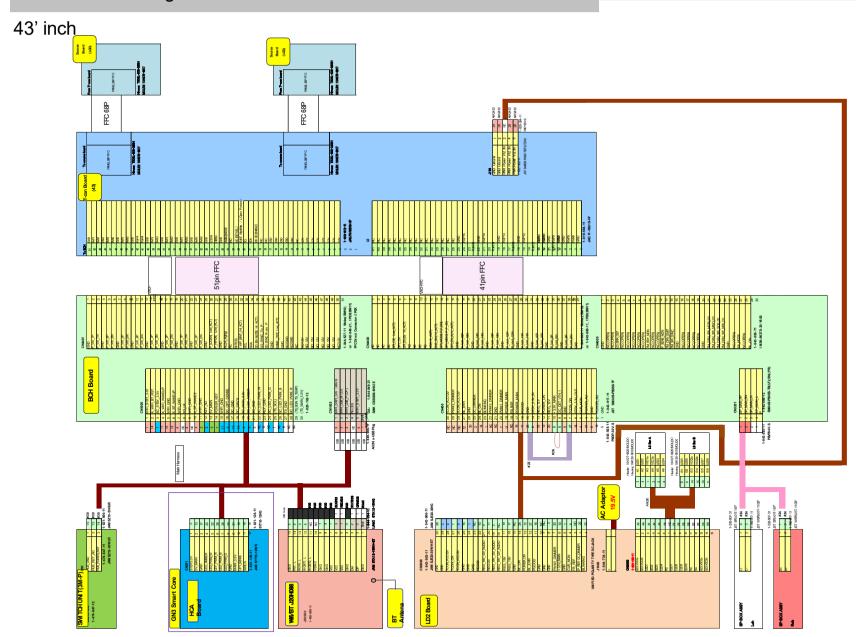


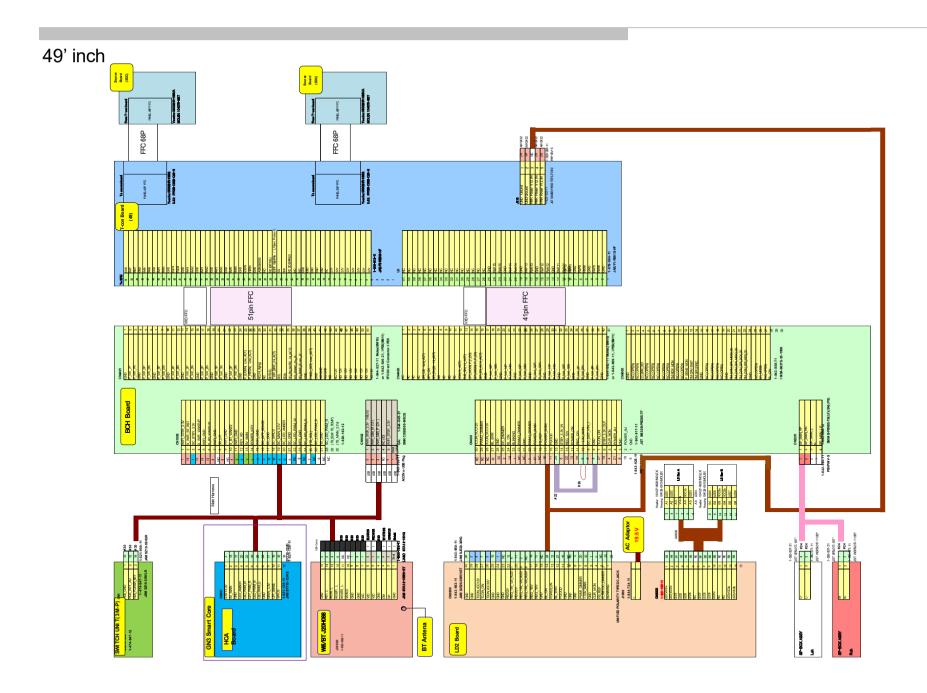
# \$0NY

### 6.3 Bluetooth malfunction



# 4.2 Connector Diagram





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

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# SERVICE MANUAL (DIASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023/11

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9-888-744-U1

**LCD TV** 

SONY

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

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# **MODEL LIST**

<u>MODEL</u>	<u>REMOTE</u>	<u>DESTINATION</u>	
FW-43BZ35F	RMT-TB400U	UC2	
FW-49BZ35F	RMT-TB400U	UC2	

### **TABLE OF CONTENTS**

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2-2.	Wire Dressing	13
3.	EXPLODED VIEWS AND PARTS List	
3-1.	FW-43BZ35F	44
3-2.	FW-49BZ35F	50
3-3.	Smart Core	56

### Please refer Service Manual (Troubleshooting) for below information:

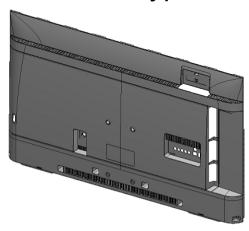
- General Safety Notes
- Self Diagnostic Function
- Triage Chart
- Troubleshooting, Troubleshooting reference
- Diagram: Connector Diagram

Note: Pictures provided in all this manual might have slight difference from the actual sets

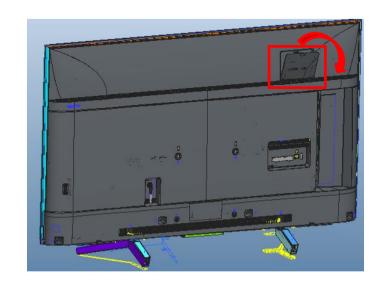
# SECTION 1 DISASSEMBLY AND REMOVAL CAUTION

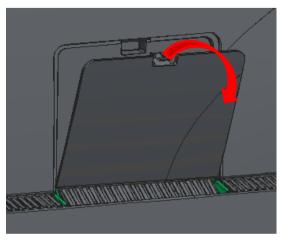
Rear Cover Disassemble Method & Caution Notes 43"/49"

# **Rear Cover disassembly procedure**



# Cover Card disassemble guide (before removing rear cover (RC)) <u>XEU/JP only</u>

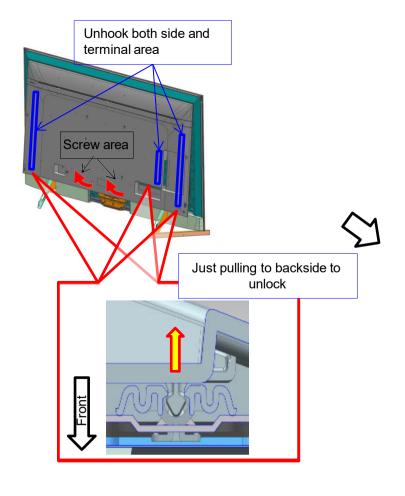


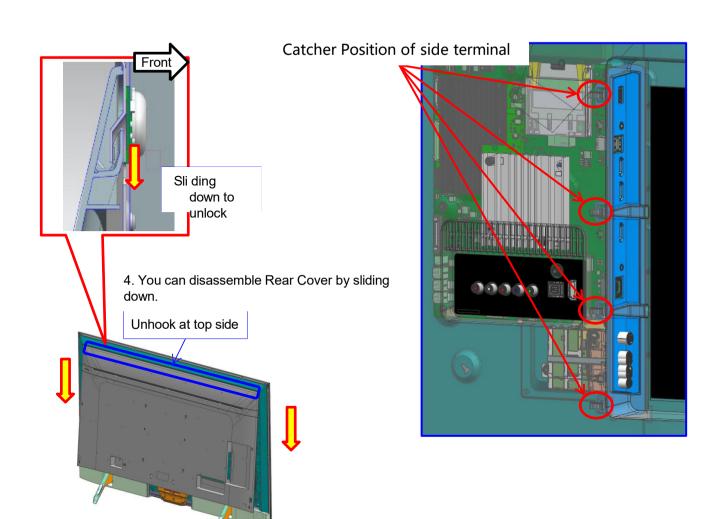


Pull out Cover Card

\* After repairing process complete, please insert back Cover Card

3. Pull up at Screw area on Rear Cover and unhook on Rear Cover.

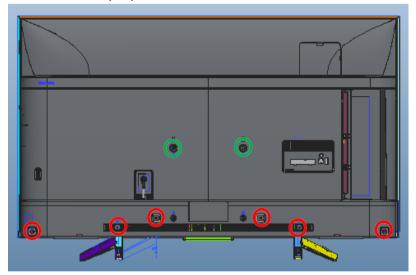


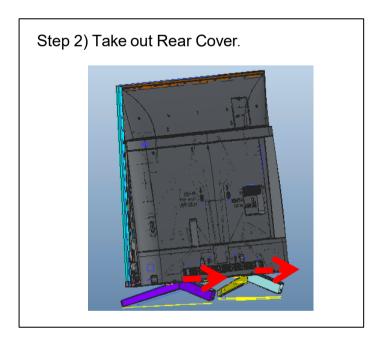


### **Remove screw**

43"/49"

Step 1) Ensure all screws is removed





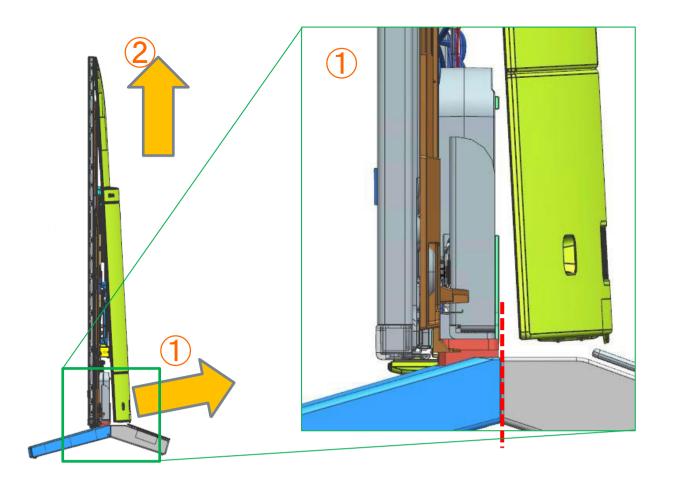
# Screw type and quantity to disassemble Rear Cover

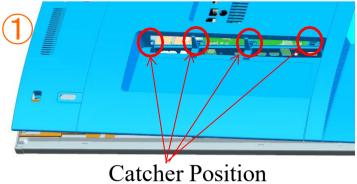
Reference	43	49	Remarks
0	6	6	4-167-019-22 SCREW, +PSW M3X8
0	2	2	4-268-126-02 SCREW, ORNAMENTAL M6X12

\* RC can be disassembled without detach stand

### **Rear Cover disassemble**

- 1) Pull Rear Cover bottom area until back of SP. and confirm release catcher
- ②Slide up Rear Cover (release top hook)





Top hook area

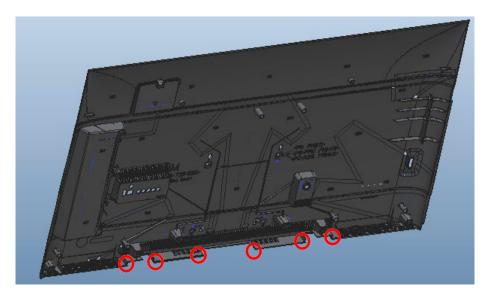


# **Sharp Edge Information**

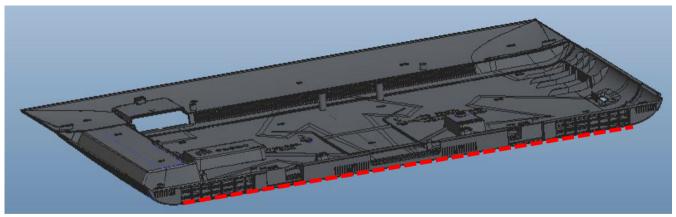
43"/49"

# Caution point:

Please wear glove while removing rear cover to avoid sharp edge at bottom area and hook area as shown in figure below.



Sharp edge area



Sharp edge area

# **Disassemble Smart Core from Set**



# 1. Remove screw in red box



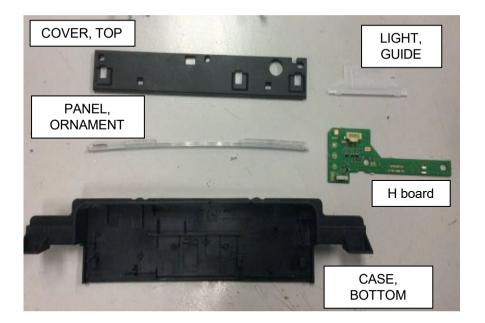
2. Remove harness

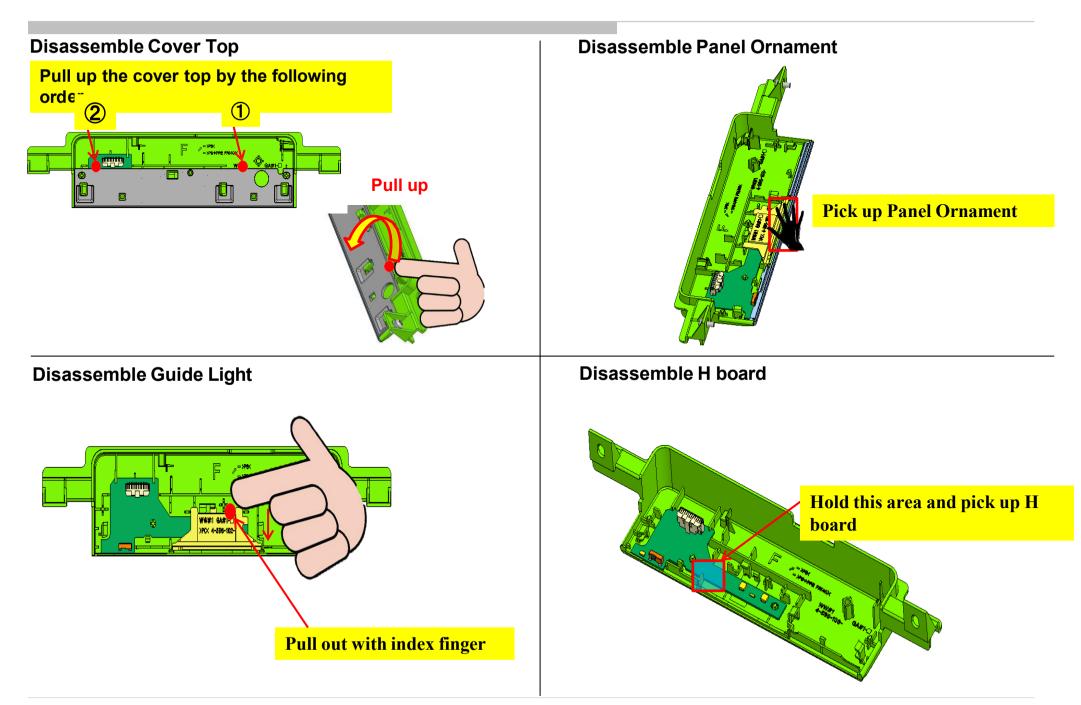




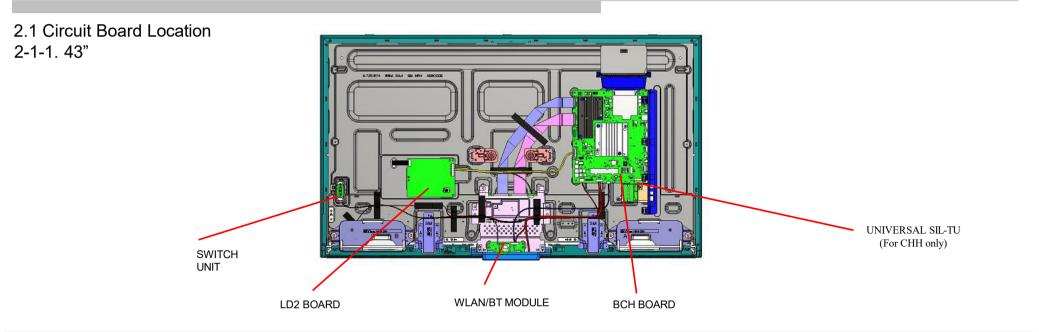
FRONT VIEW

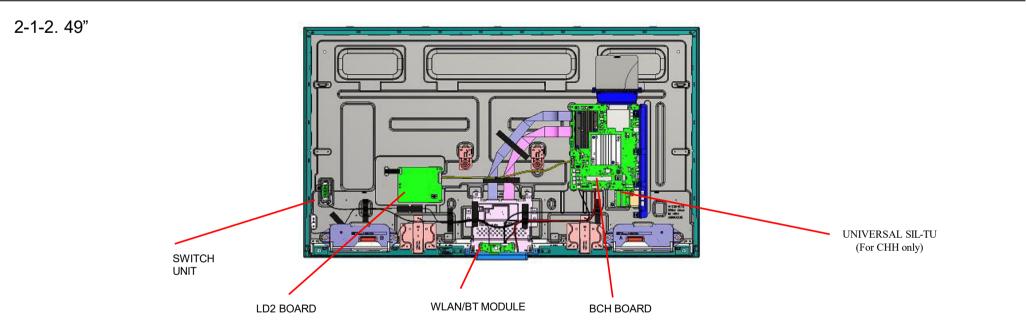
BACK VIEW

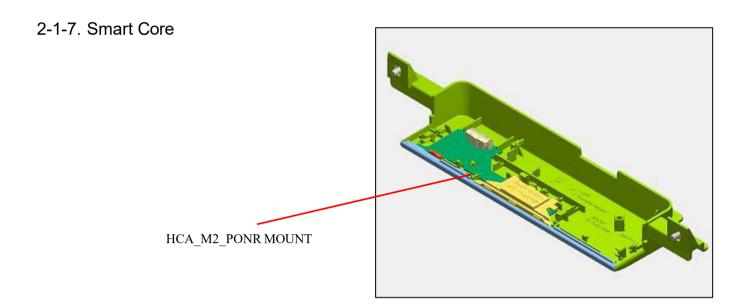




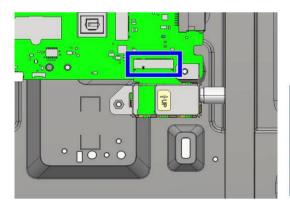
# **SECTION 2 DIAGRAMS**



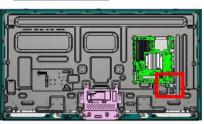




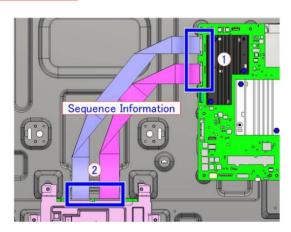




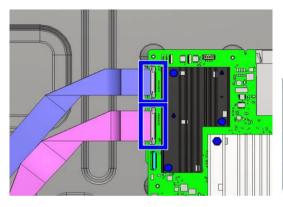




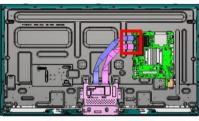
### INFORMATION

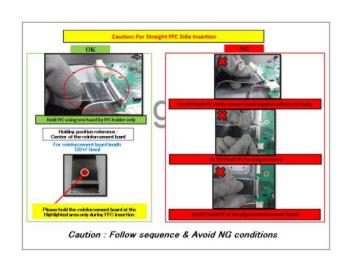


CONNECT 41P

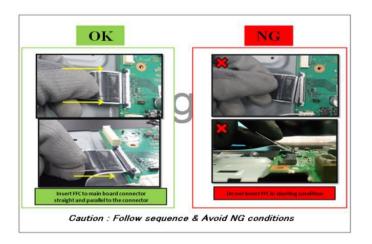


Overall View

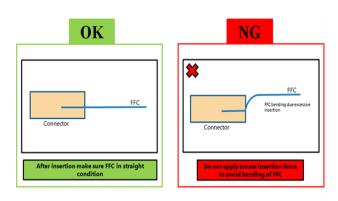




### INFORMATION 2

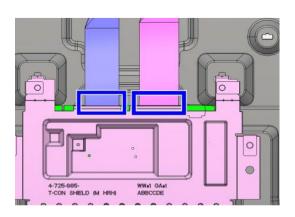


### **INFORMATION 3**

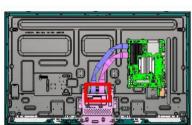


Caution : Follow sequence & Avoid NG conditions

### CONNECT 51P

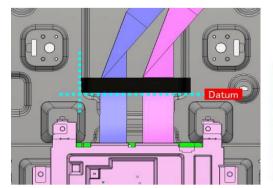




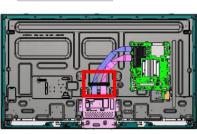




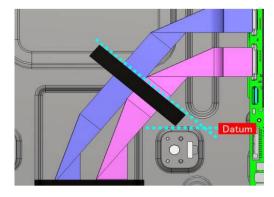
TAPE



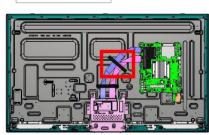
Overall View



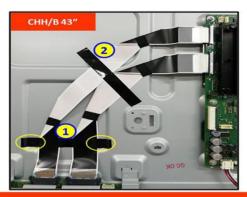
TAPE



Overall View

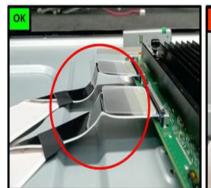


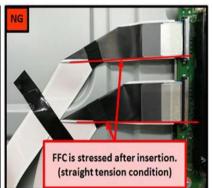
INFORMATION

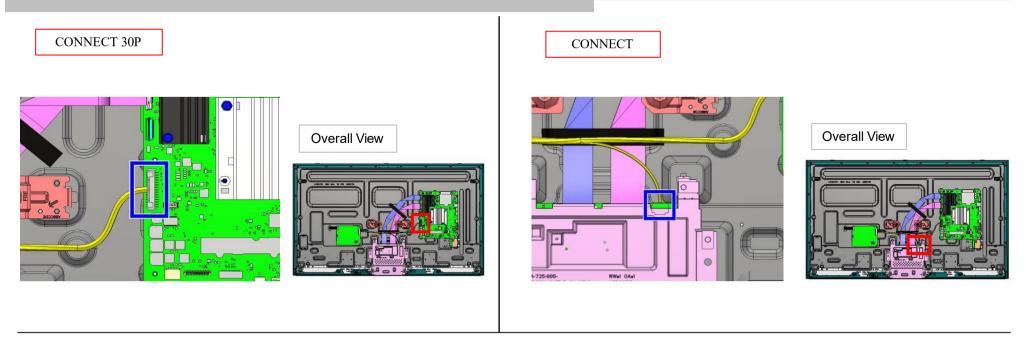


Apply rubbing on VA tapes after apply VA tapes on FFC 51P & 41P.

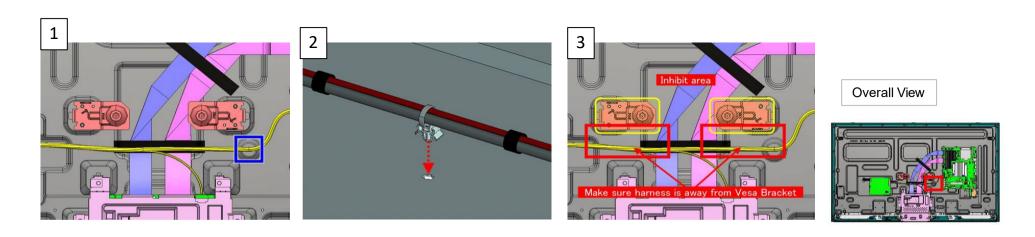
Ensure VA tape (T-CON side) is dressed with equal adhesive area at both ends.



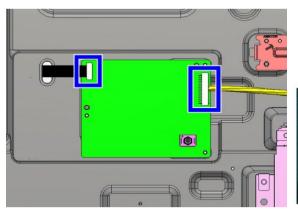




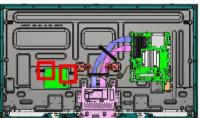
### WIRE DRESSING



#### CONNECT



#### Overall View



#### INFORMATION 1

#### [CHH/B 43"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (1/4)





Please follow sequence to connect connectors and cable tie as mentioned below:

- (1) Connect harness connector to Main Board Side & T-Con side.
- (2) Insert cable tie to the hole.

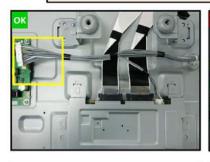
(3) Place your hand on UL Tape position (2nd UL Tape from Power Board).

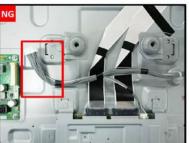
#### Caution:

Before placing harness, ensure wire arrangement is in straight condition and connectors are facing up.

#### **INFORMATION 2**

#### [CHH/B 43"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (2/4)





**OK Condition:** 

Harness is in straight condition and connector is facing

NG Condition:

Harness is not in straight condition and connector is facing down.

#### **INFORMATION 3**

#### [CHH/B 43"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (3/4)





(4) Fold the harness towards right side at one time.

(5) Connect the harness connector to Power Board side.

### INFORMATION 4

### [CHH/B 43"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (4/4)

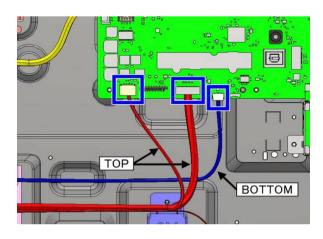




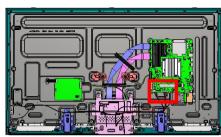
(6) Press harness downwards to back chassis.

Harness will be away from Rear Cover.

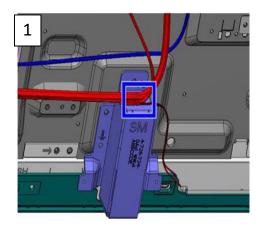
### CONNECT

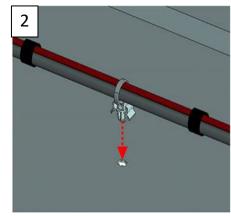


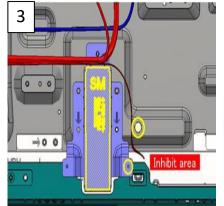
### Overall View



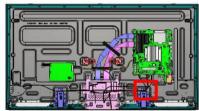
### WIRE DRESSING



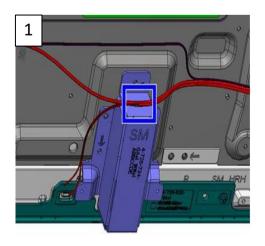


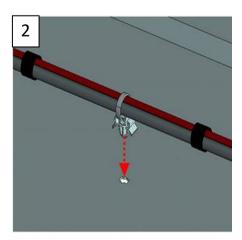


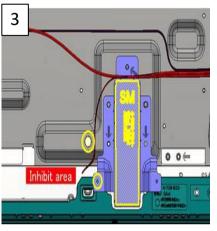
Overall View

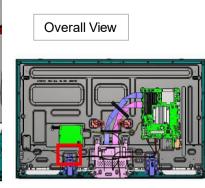


WIRE DRESSING

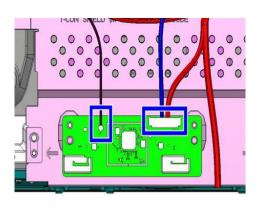






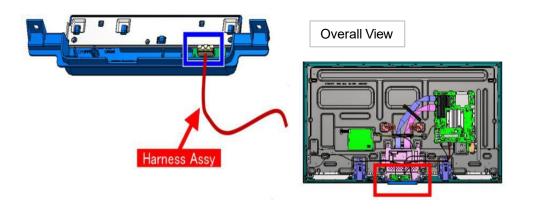


CONNECT

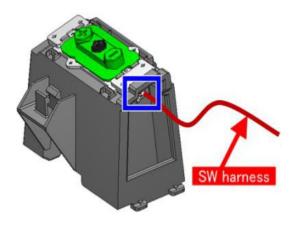




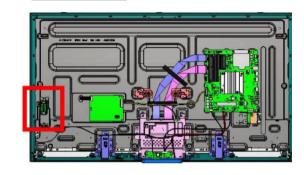
CONNECT



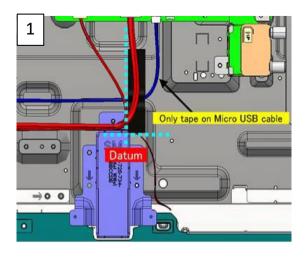
CONNECT

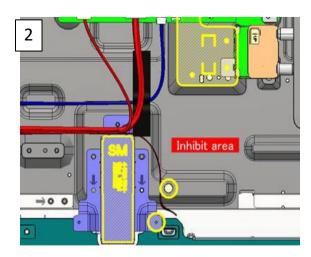




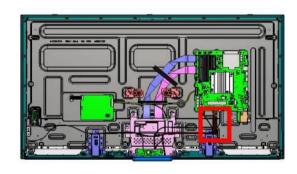


TAPE

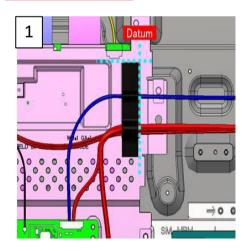


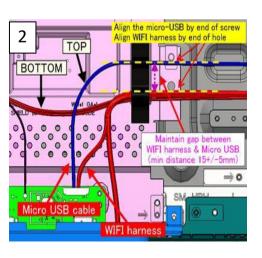


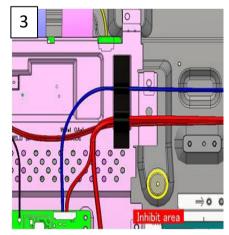
Overall View



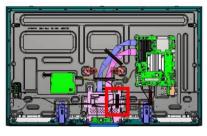
TAPE



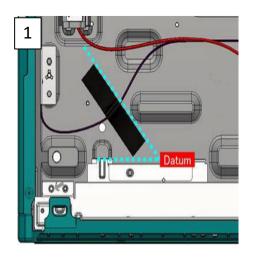


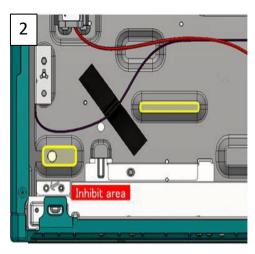


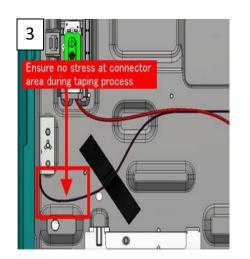
Overall View



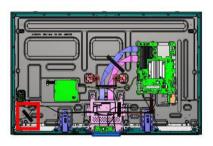
TAPE



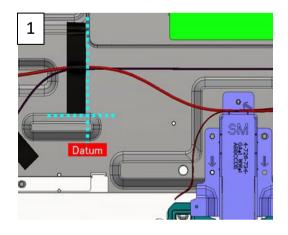


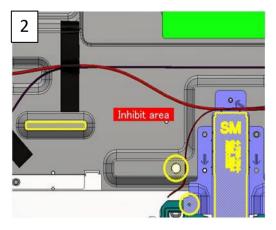


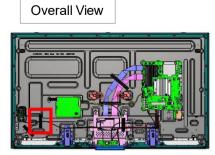
Overall View



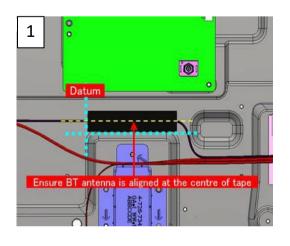
TAPE

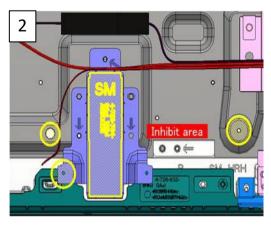






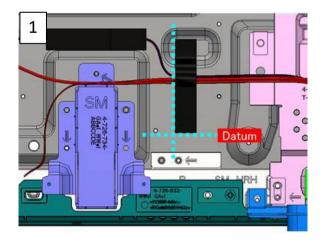
TAPE

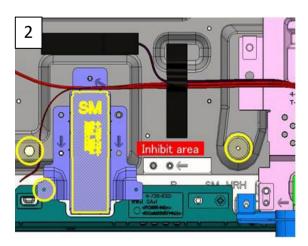


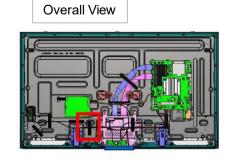




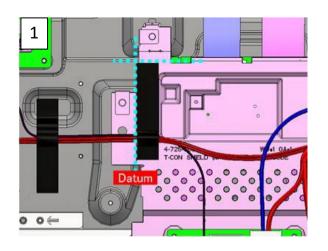
TAPE

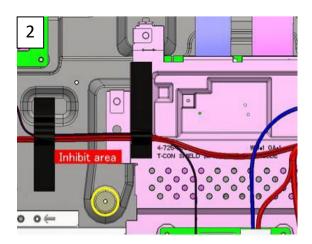


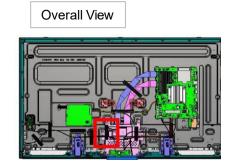




TAPE

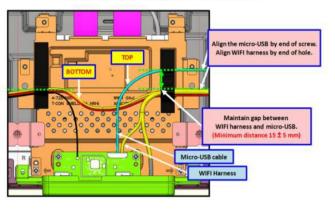




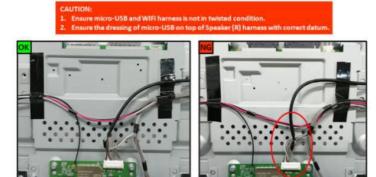


### INFORMATION

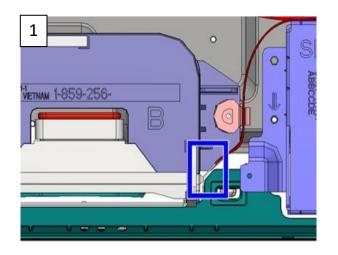
### Harness Dressing at T-Con Area

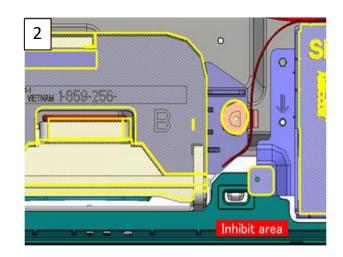


### INFORMATION

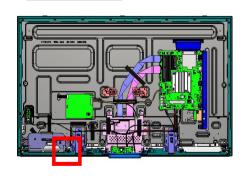


CONNECT

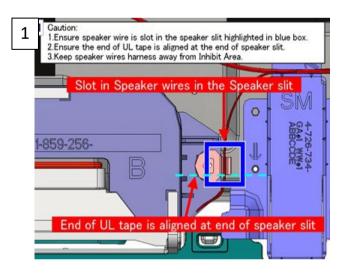


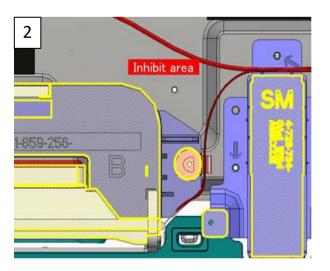




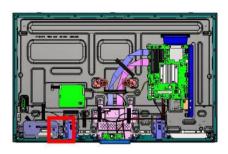


#### WIRE DRESSING

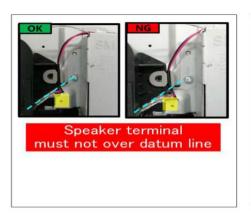




Overall View

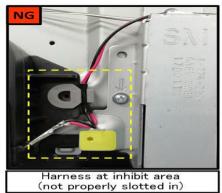


### **INFORMATION 1**

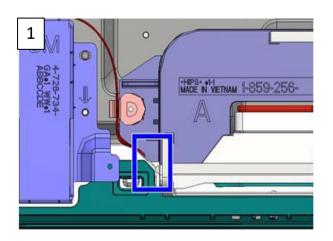


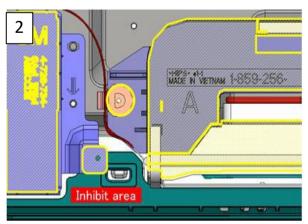


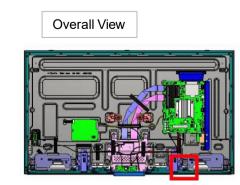




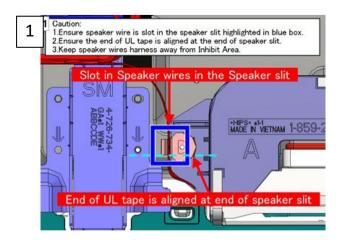
### CONNECT

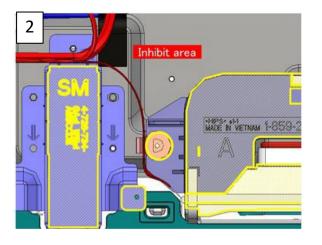


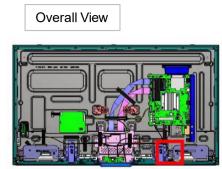




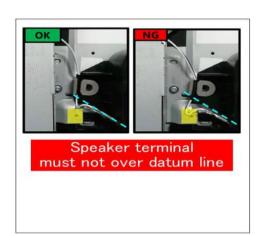
### WIRE DRESSING





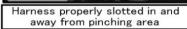


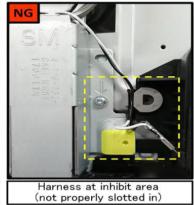
### INFORMATION 1



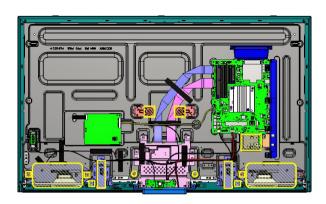






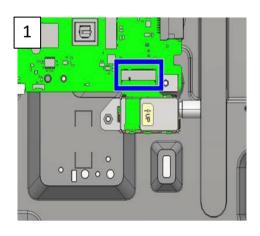


INFORMATION

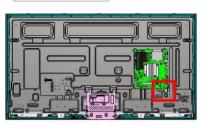


Caution: Keep wire harness away from Inhibit Area

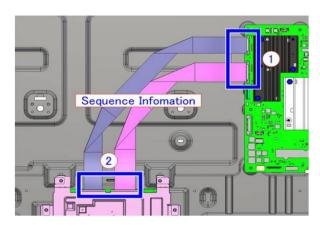
# CONNECT



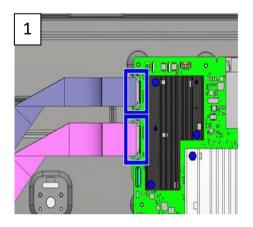




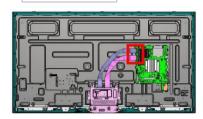
### INFORMATION



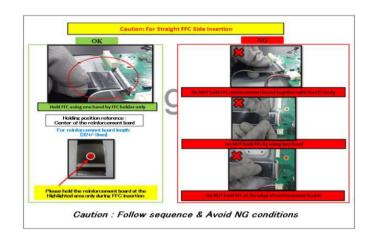
## CONNECT 41P



Overall View



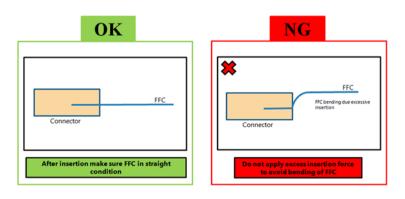
## INFORMATION 1



### INFORMATION 2

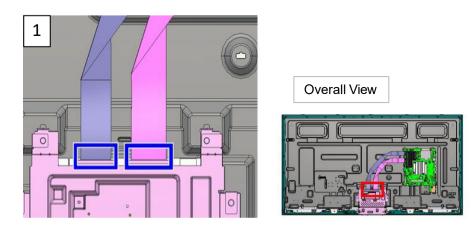


#### **INFORMATION 3**



Caution : Follow sequence & Avoid NG conditions

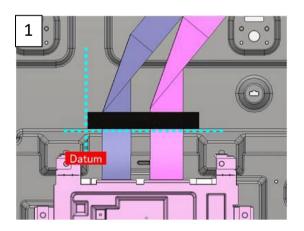
### CONNECT 51P



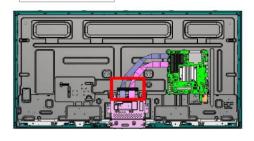
#### INFORMATION



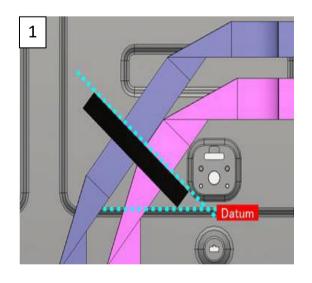
TAPE

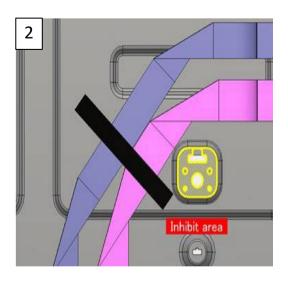




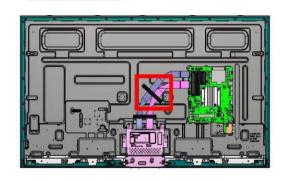


TAPE





Overall View

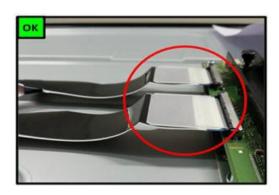


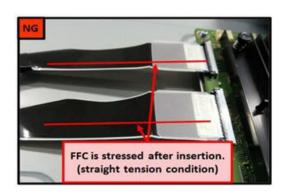
## INFORMATION



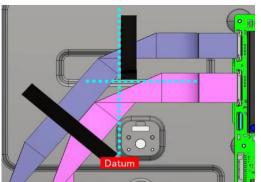
CAUTION:
Apply rubbing on VA tapes after apply VA tapes on FFC 51P & 41P.
Description of VA tape (T-CON side) is dressed with equal adhesive area at both ends.

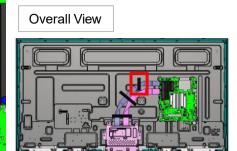
## INFORMATION

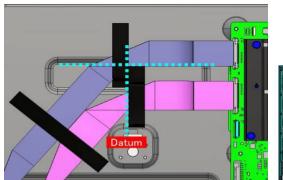


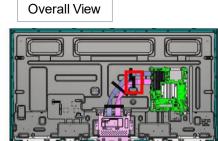


TAPE







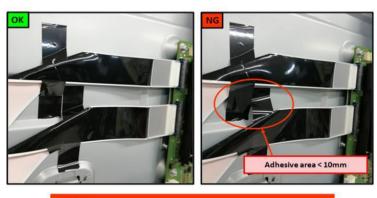


## INFORMATION



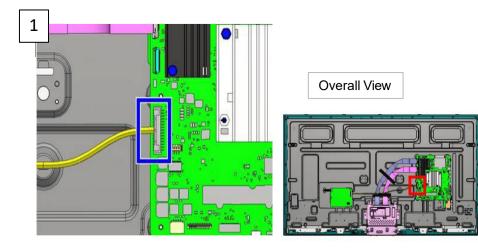
CAUTION:
1. Apply rubbing on VA tapes after apply VA tapes on FFC 51P & 41P.
2. Ensure VA tape (T-CON side) is dressed with equal adhesive area at both ends.

### INFORMATION

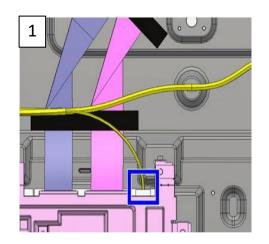


1. Apply rubbing on VA tapes after applied VA tapes on FFC 51P & 41P. Ensure VA tapes adhesive area of >10mm for both ends.

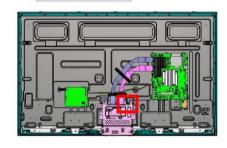
CONNECT 30P



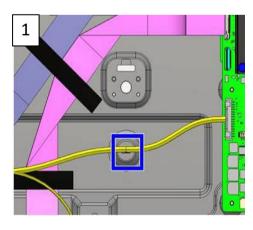
CONNECT

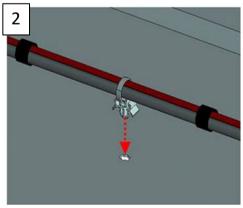


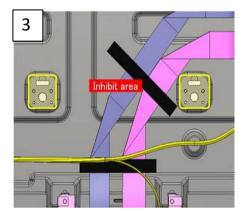
Overall View



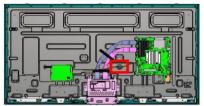
### WIRE DRESSING



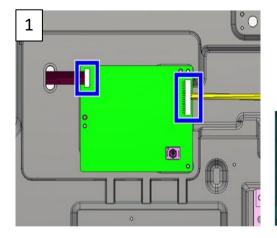




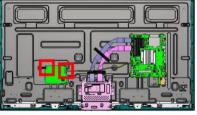
Overall View



#### CONNECT

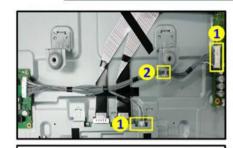


Overall View



#### INFORMATION 1

#### [CHH/B 49"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (1/4)



Please follow sequence to connect connectors and cable tie as mentioned below:

- (1) Connect harness connector to Main Board Side & T-Con side.
- (2) Insert cable tie to the hole.



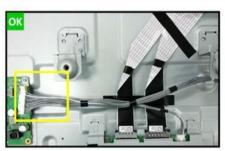
(3) Place your hand on UL Tape position (2nd UL Tape from Power Board).

Caution

Before placing harness, ensure wire arrangement is in straight condition and connectors are facing up.

#### **INFORMATION 2**

#### [CHH/B 49"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (2/4)





OK Condition:

Harness is in straight condition and connector is facing

#### **NG Condition**

Harness is not in straight condition and connector is facing down.

### **INFORMATION 3**

#### [CHH/B 49"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (3/4)





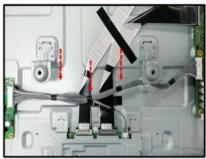
(4) Fold the harness towards right side at one time.

(5) Connect the harness connector to Power Board side.

### INFORMATION 4

#### [CHH/B 49"]: SPECIAL HANDLING TO CONTROL CONN ASSY 30P (4/4)

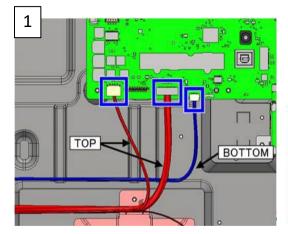




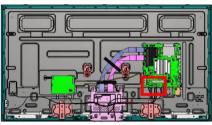
(6) Press harness downwards to back chassis.

Harness will be away from Rear Cover.

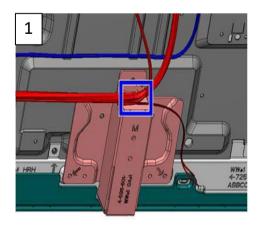
#### CONNECT

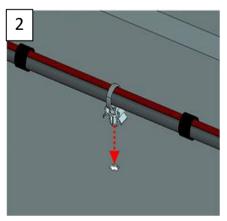


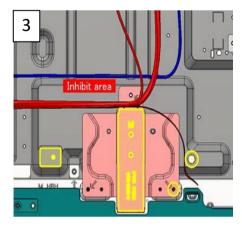
Overall View

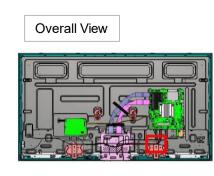


## WIRE DRESSING

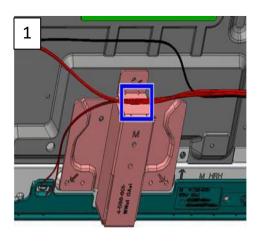


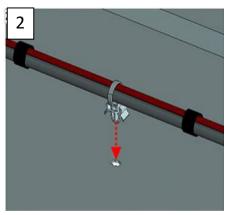


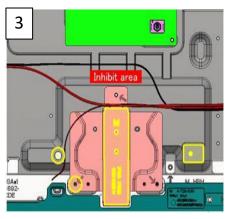




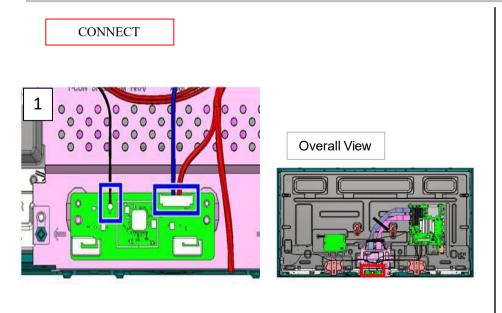
## WIRE DRESSING

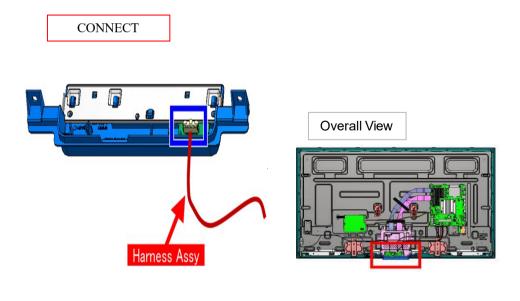




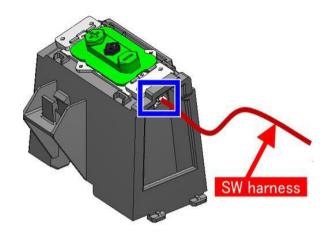






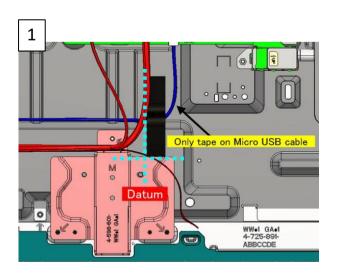


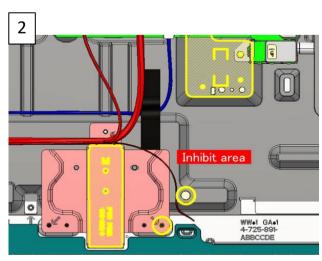
## CONNECT



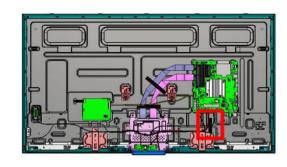


### TAPE

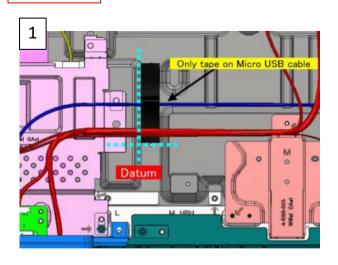


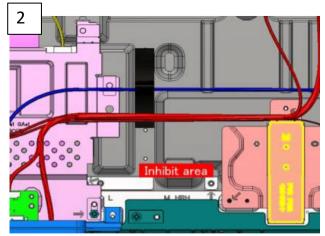


## Overall View

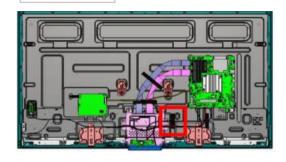


### TAPE

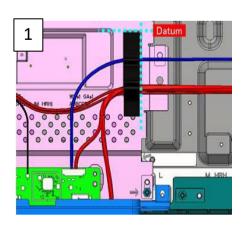


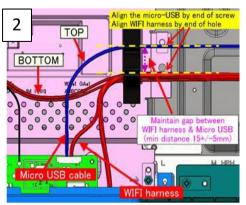


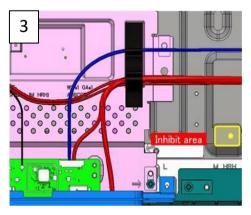
## Overall View

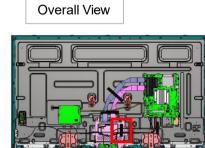


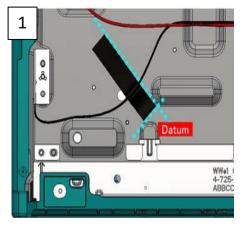
TAPE

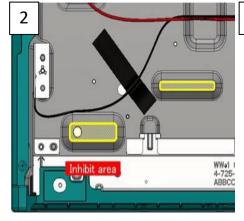


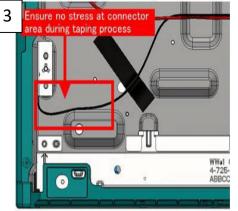


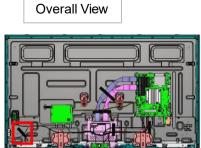




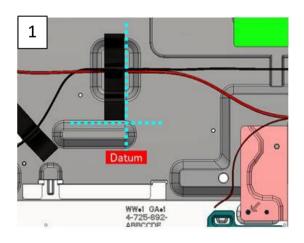


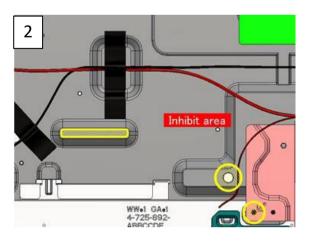


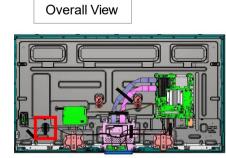


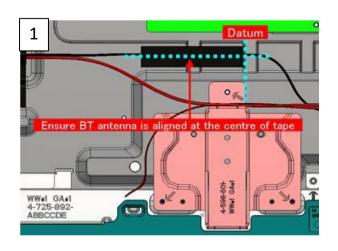


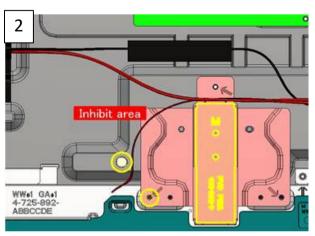
TAPE





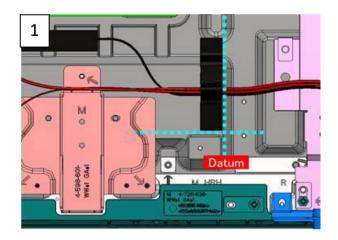


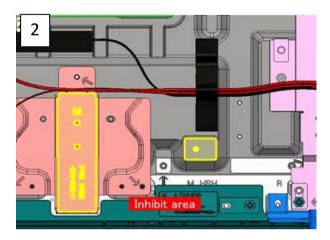


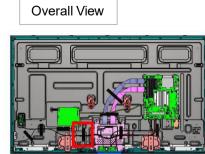


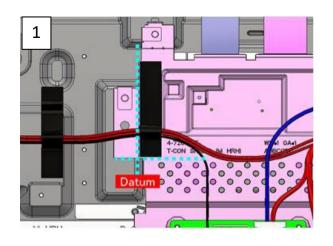


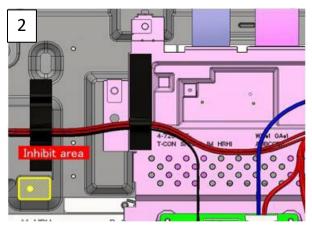
TAPE

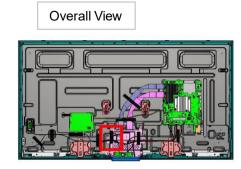






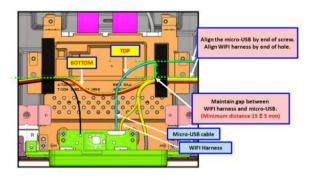






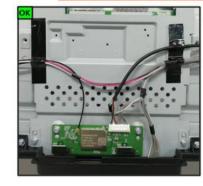
### INFORMATION

### Harness Dressing at T-Con Area



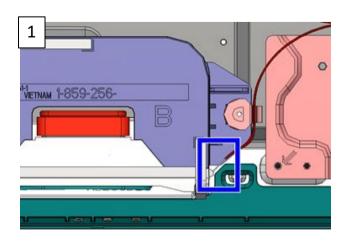
### INFORMATION

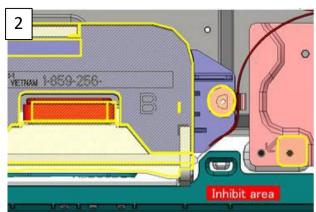


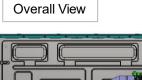


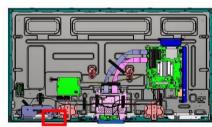


### CONNECT

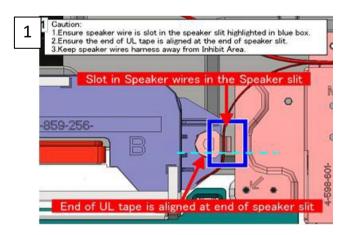


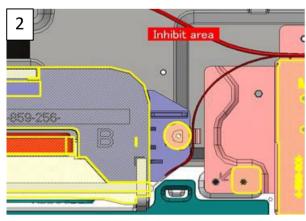


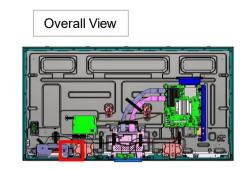




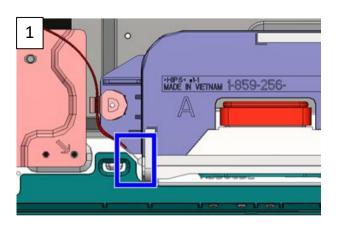
#### WIRE DRESSING

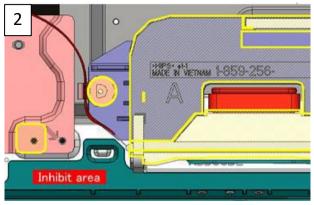


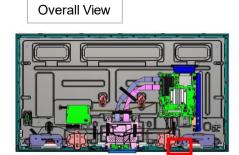




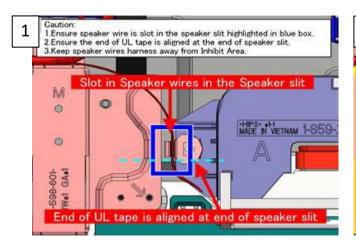
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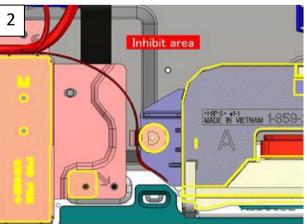


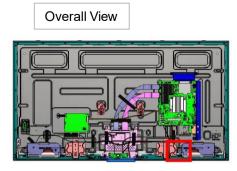




### WIRE DRESSING

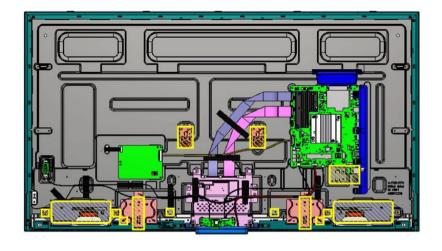






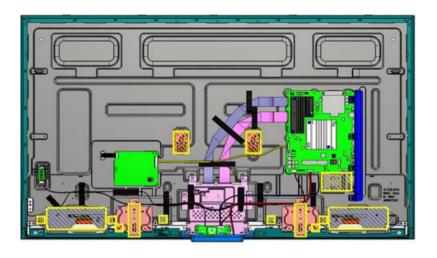
INFORMATION

CHH only



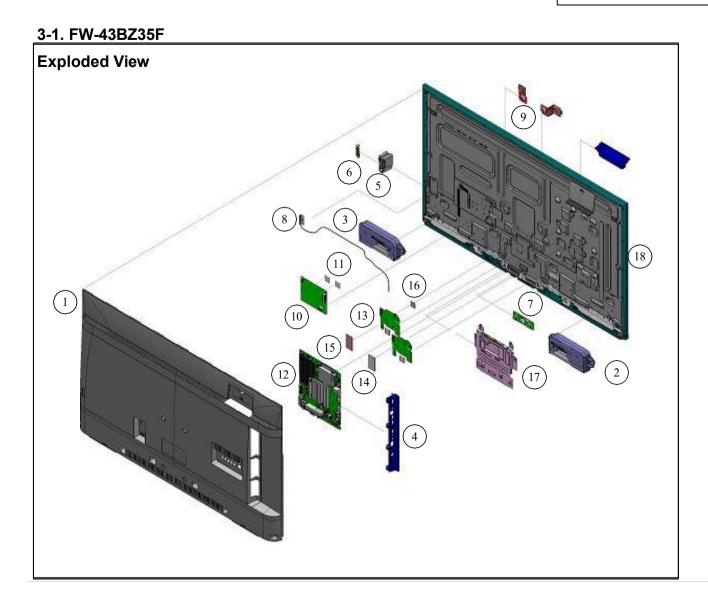
INFORMATION

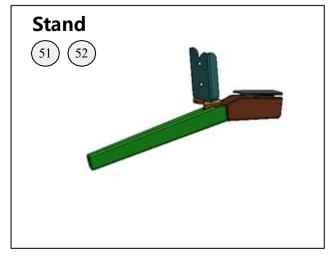
CHHB only



## **SECTION 3 EXPLODED VIEWS AND PARTS LIST**

- Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
- and shaded parts are critical for safety. Replace only with part number specified.
   Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced.
- (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- Picture provided in this section might have slight difference from the actual sets.
- Lines that indicate parts are shown in blue in the illustration.
- The reference number beside the part description indicates the disassembly sequence.
- Remove screws before disassembly. Unplug connectors before disassembly

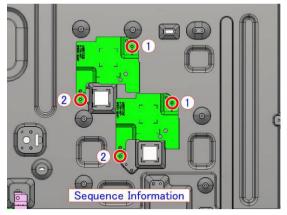


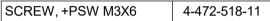


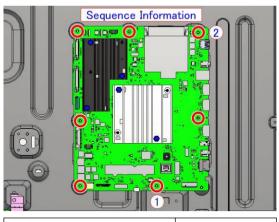
## **Exploded View**

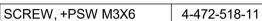
REF.			FW-43BZ35F
NO.	PART NO.	DESCRIPTION	UC2
1 4-729-459-02		REAR COVER (SM HRH) A	•
2 1-859-256-11		SP-BOX ASSY,FY18 W30SMALL-A	•
3	1-859-256-21	SP-BOX ASSY,FY18 W30SMALL-B	•
4	4-726-393-61	BRACKET SIDE (HRH)	•
5	4-726-502-01	BRACKET, SWITCH (PPK)	•
6	1-474-647-12	SWITCHUNIT (3M-P)	•
7 🔒	1-458-998-11	WLAN/BT MODULE(11AC)	•
8	1-522-046-11	BT ANTENNA 540MM FXC	•
9	4-595-898-01	VESA BRACKET BT (SM FRE)	•
10	A-2201-090-A	LD2_2DRV_43_OTHER MOUNT	•
11	4-549-186-02	SHEET, THERMAL(BM)	•
12 🔒	A-2201-063-A	COMPL_SVC_BCH_B2B_WW	•
13	4-699-975-01	SHEET,THERMAL(5567H)	•
14	4-735-955-01	SHEET, THERMAL(MUF HRH)	•
15	4-735-956-01	SHEET, THERMAL(FRC HRH)	•
16	4-735-957-01	SHEET, THERMAL(FRC HRH B)	•
17	1-897-264-11	MOUNTED PWB E-T-CON (43)	•
18 <u></u>	A-2198-884-A	P-MOD (YD8S430HNG0101)(SERVICE	n/a
51	4-729-457-01	STAND L (SM HRH) A	•
52	4-729-458-01	STAND R (SM HRH) A	•

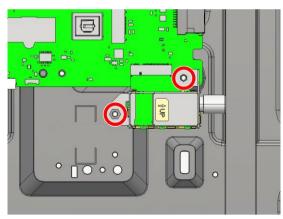
### Screws



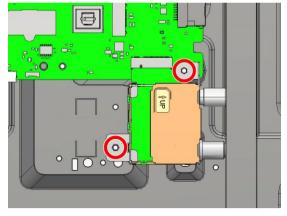




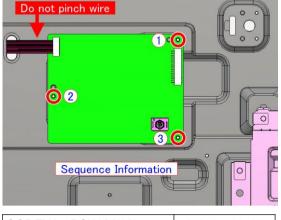


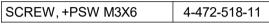


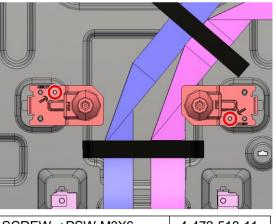






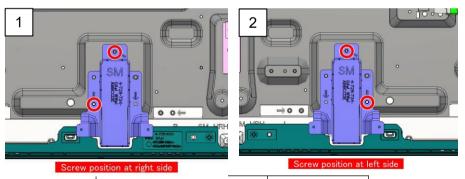


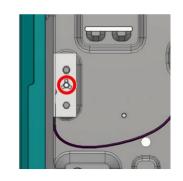




SCREW, +PSW M3X6 4-472-518-11

### Screws



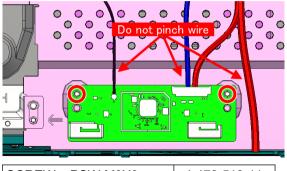


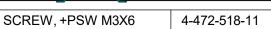
SCREW, +PSW M3X6

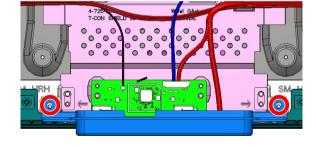
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SCREW, +PSW M3X6

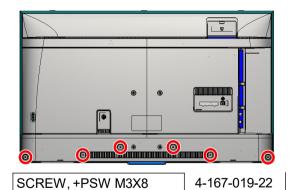
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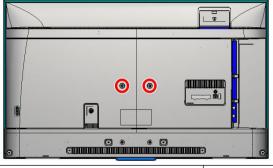






SCREW, +PSW M3X6 4-472-518-11

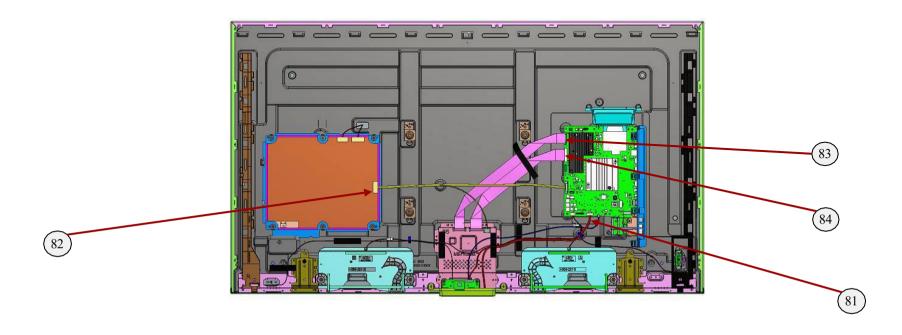




SCREW, ORNAMENTAL M6X12

4-268-126-02

## Connectors



REF. NO.	PART NO.	DESCRIPTION	REMARKS
81	1-910-806-32	HARNESS ASSY	CN1000 (BCH)-CN1(3M-P)-CN001 (HCA)-WIFI/BT-CN1002 (BCH)/CN3201(BCH)-SP(1)
82	1-910-806-34	CONNECTOR ASSY 30P	CN400(BCH)-CN3000(LD2)-J110(T-CON)(1)
83	1-912-527-11	FLEXIBLE FLAT CABLE 41P	CN4400(BCH)-U2(T-CON)(1)
84	1-912-556-11	FLEXIBLE FLAT CABLE 51P	CN4401(BCH)-U1(T-CON)(1)

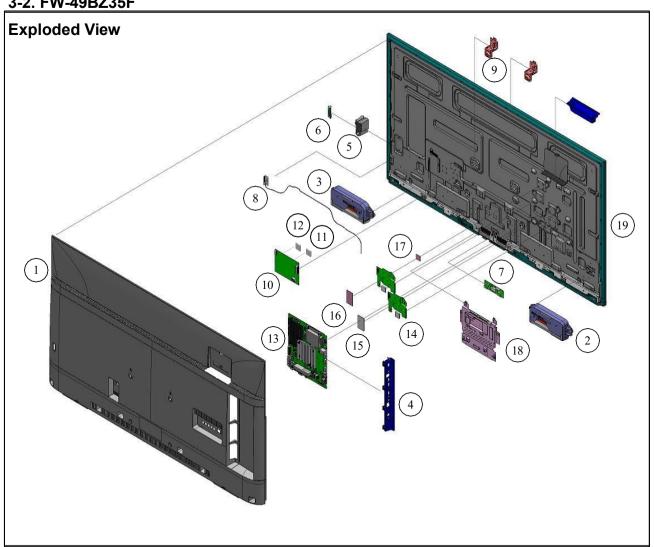
## Other parts

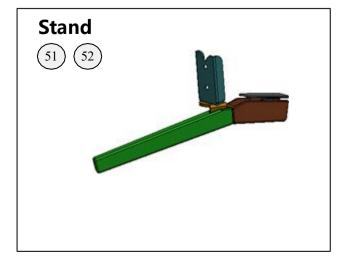
PART NO. DESCRIPTION FW-43BZ35  1-493-490-21 AC ADAPTOR (120W)  *7-600-040-44 ADHESIVE (SV380C) 333CC GRY  4-535-064-14 ASSY,FALL LOCK,BELT LL  4-588-089-03 BAG, SCREW ASSY (TQS) (*include SCREW, +PSW M4X12 2-580-602-01 (4pcs))  *4-548-743-01 HOLDER, HS WS (MUF)	F
*7-600-040-44 ADHESIVE (SV380C) 333CC GRY  4-535-064-14 ASSY,FALL LOCK,BELT LL  4-588-089-03 BAG, SCREW ASSY (TQS) (*include SCREW, +PSW M4X12 2-580-602-01 (4pcs))	
4-535-064-14 ASSY,FALL LOCK,BELT LL •  4-588-089-03 BAG, SCREW ASSY (TQS) (*include SCREW, +PSW M4X12 2-580-602-01 (4pcs)) •	
4-588-089-03 BAG, SCREW ASSY (TQS) (*include SCREW, +PSW M4X12 2-580-602-01 (4pcs))	
4-588-089-03 +PSW M4X12 2-580-602-01 (4pcs))	
*4-548-743-01 HOLDER, HS WS (MUF)	
, ( - ,	
*4-549-188-01 HOLDER(HS MUF) •	
A-2198-900-A HEAT SPREADER (SERVICE)43CHH/B •	
*4-549-395-01 HEAT SINK (MUFF C) •	
*4-584-547-01 HEAT SINK(MUFF2 C) •	
4-732-834-01 LABEL, REAR TERMINAL (HRH) •	
4-731-521-51 LABEL, SIDE TERMINAL (HRH) •	
1-849-876-11 POWER-SUPPLY CORD SET •	
*4-734-761-21 PROFESSIONAL GUIDE (B2B) •	
1-493-483-11 REMOTE COMMANDER (RMT-TB400U) •	
*4-735-232-11 REFERENCE GUIDE •	
*4-735-249-11 SETUP GUIDE •	
*A-2218-237-A USER GUIDE CHHB UC2 •	

## **SECTION 3 EXPLODED VIEWS AND PARTS LIST**

- Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
- and shaded parts are critical for safety. Replace only with part number specified.
   Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced.
- (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- Picture provided in this section might have slight difference from the actual sets.
- Lines that indicate parts are shown in blue in the illustration.
- The reference number beside the part description indicates the disassembly sequence.
- Remove screws before disassembly. Unplug connectors before disassembly

#### 3-2. FW-49BZ35F



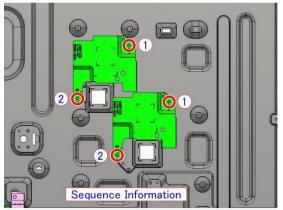


# **Exploded View**

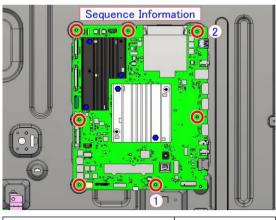
REF. PART NO.			FW-49BZ35F
NO.	PART NO.	DESCRIPTION	UC2
1	4-729-460-01	REAR COVER (M HRH) A	•
2	1-859-256-11	SP-BOX ASSY,FY18 W30SMALL-A	
3	1-859-256-21	SP-BOX ASSY,FY18 W30SMALL-B •	
4	4-726-393-61	BRACKET SIDE (HRH)	•
5	4-726-502-01	BRACKET, SWITCH (PPK)	•
6	1-474-647-12	SWITCHUNIT (3M-P)	•
7 🔒	1-458-998-11	WLAN/BT MODULE(11AC)	•
8	1-754-950-12	BT ANTENNA 540MM FXC	•
9	4-595-898-01	VESA BRACKET BT (SM FRE)	
10	A-2201-092-A	LD2_2DRV_49_OTHER MOUNT •	
11	4-549-186-02	SHEET, THERMAL(BM)	
12	4-684-341-01	SHEET THERMAL (MZT LD)	
13 🔒	A-2201-063-A	COMPL_SVC_BCH_B2B_WW •	
14	4-699-975-01	SHEET, THERMAL(5567H)	
15	4-735-955-01	SHEET, THERMAL(MUF HRH) •	
16	4-735-956-01	SHEET, THERMAL(FRC HRH) •	
17	4-735-957-01	SHEET, THERMAL(FRC HRH B)	
18	1-897-275-11	MOUNTED PWB E-T-CON (49)	
19 <u>/</u>	A-2198-882-A	P-MOD (YD8S490HND0101)(SERVICE	n/a
51	4-734-881-01	STAND L (M HRH) A	•
52	4-734-882-01	STAND R (M HRH) A	

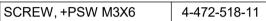
SCREW, +PSW M3X6

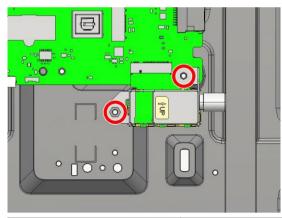
## Screws



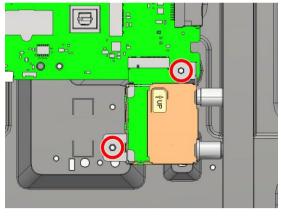


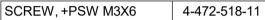


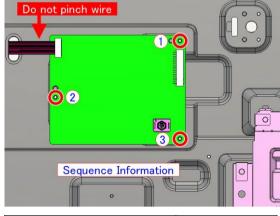








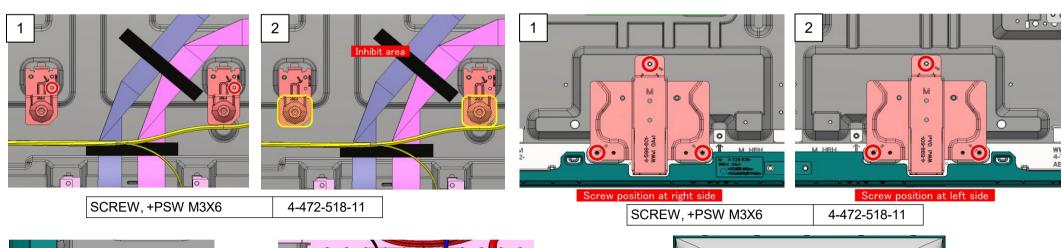


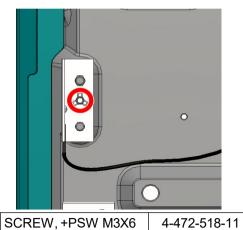


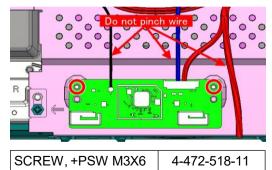
SCREW, +PSW M3X6

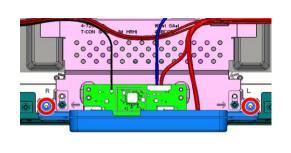
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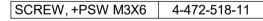
### **Screws**

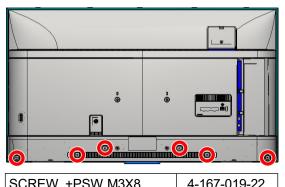


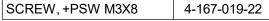


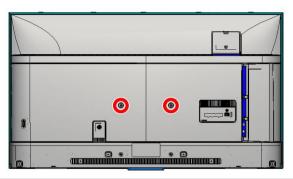






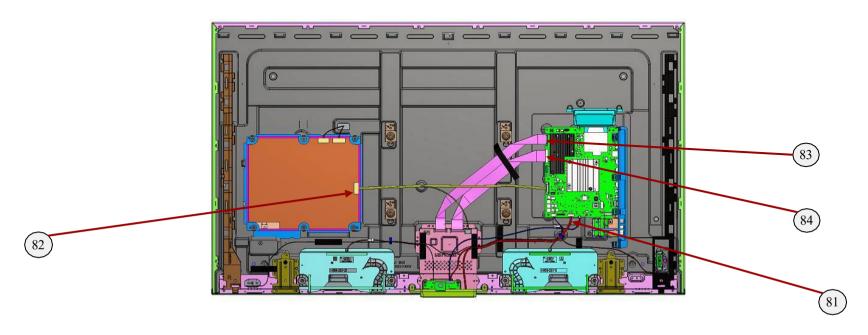






SCREW, ORNAMENTAL M6X12 4-268-126-02

## Screws

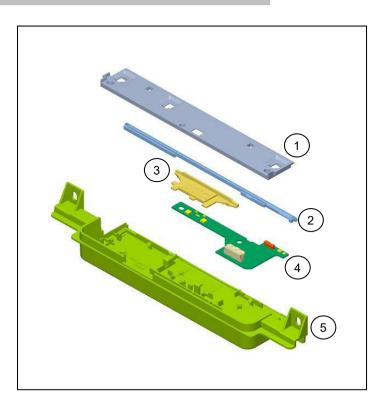


REF NO	PART NO.	DESCRIPTION	REMARKS
81	1-910-806-35	HARNESS ASSY	CN1000(BCH)-CN1(3M-P)-CN001(HCA)-WIFI/BT-CN1002(BCH)/CN3201(BCH)-SP(1)
82	1-910-806-37	CONNECTOR ASSY 30P	CN400(BCH)-CN3000(LD2)-J110(T-CON)(1)
83	1-912-544-11	FLEXIBLE FLAT CABLE 41P	CN4400(BCH)-U2(T-CON)(1)
84	1-912-546-11	FLEXIBLE FLAT CABLE 51P	CN4401(BCH)-U1(T-CON)(1)

# Others part

		FW-49BZ35F	
PART NO.	DESCRIPTION	UC2	
1-493-297-12	AC ADAPTOR (160W)	•	
*7-600-040-44	ADHESIVE (SV380C) 333CC GRY	•	
4-535-064-14	ASSY,FALL LOCK,BELT LL		
4-588-089-03	BAG, SCREW ASSY (TQS) (*include SCREW, +PSW M4X12 2-580-602-01 (4pcs))	•	
A-2198-898-A	HEAT SPREADER (SERVICE)49CHH/B	•	
*4-548-743-01	HOLDER, HS WS (MUF)		
*4-549-188-01	HOLDER(HS MUF) •		
4-732-834-01	LABEL, REAR TERMINAL (HRH)		
4-731-521-51	LABEL, SIDE TERMINAL (HRH)		
1-849-876-11	POWER-SUPPLY CORD SET •		
*4-549-395-01	HEAT SINK (MUFF C)		
*4-584-547-01	HEAT SINK(MUFF2 C)		
*4-734-761-21	PROFESSIONAL GUIDE (B2B)		
1-493-483-11	REMOTE COMMANDER (RMT-TB400U) •		
*4-735-232-11	REFERENCE GUIDE •		
*4-735-249-11	SETUP GUIDE •		
*A-2218-237-A	USER GUIDE CHHB UC2	•	

# 3-3. Smart core



REF.NO.	PART NO.	DESCRIPTION
1	4-724-440-01	COVER, TOP (HRH)
2	4-596-101-21	PANEL, ORNAMENT (FRE)
3	4-596-102-01	GUIDE, LIGHT (FRE)
4	A-2199-558-A	HCA_M2_PONR MOUNT (65" & 75"only)
4	A-2199-646-A	HCAL_M2_PONR MOUNT (85" only)
5	4-596-103-02	CASE, BOTTOM (FRE)

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

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