

## HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

# ***SERVICE MANUAL***

**ORIGINAL MANUAL ISSUE DATE: 3/2012**

**AZ3F CHASSIS**  
Segment: P-2A

<b>Version</b>	<b>Date</b>	<b>Subject</b>
1.0	3/2012	Original manual issue.
2.0	9/2012	Correction of part number for SCREW (+PSW)(M3x6). (P.19, P.35, P.36, P.52)

KDL-22EX553/KDL-26EX553/KDL-32EX653(AEP/UK/IT)  
Following S/N Range is for (BCN)  
1,000,001-1,950,000

**LCD Digital Color TV**

**SONY®**

# ***SERVICE MANUAL***

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AZ3F CHASSIS  
Segment: P-2A

LCD Digital Color TV

**SONY®**

# MODEL LIST

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
KDL-22EX550	Black	RM-ED050	AEP
KDL-22EX553	Black	RM-ED050	AEP
	White	RM-ED050	AEP
	Black	RM-ED050	UK
	White	RM-ED050	UK
	Black	RM-ED050	IT
	White	RM-ED050	IT
KDL-22EX555	Black	RM-ED050	AEP
KDL-26EX550	Black	RM-ED050	AEP
	White	RM-ED050	AEP
KDL-26EX553	Black	RM-ED050	AEP
	White	RM-ED050	AEP
	Black	RM-ED050	UK
	White	RM-ED050	UK
	Black	RM-ED050	IT
	White	RM-ED050	IT
KDL-26EX555	Black	RM-ED050	AEP
	White	RM-ED050	AEP

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
KDL-32EX650	Black	RM-ED050	AEP
KDL-32EX653	Black	RM-ED050	AEP <sup>*1</sup>
	Black	RM-ED050	UK
	Black	RM-ED050	IT
KDL-32EX655	Black	RM-ED050	AEP

\*1

Serial number range 1,300,001 ~ 1,400,000 are B2B models.

Its commercial name is FWD-32EX650P.

# WARNINGS AND CAUTIONS - ENGLISH

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## CAUTION

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

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

## WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis.

The chassis of this receiver is directly connected to the ac power line.

## CARRYING THE TV

Be sure to follow these guidelines to protect your property and avoid causing serious injury.

- Carry the TV with an adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damages.

## SAFETY-RELATED COMPONENT WARNING!!

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

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



# WARNINGS AND CAUTIONS - FRENCH

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## ATTENTION!!

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

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

## WARNING!!

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

## POUR TRANSPORTER LE TÉLÉVISEUR

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

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

## ALERTE!!

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

## ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

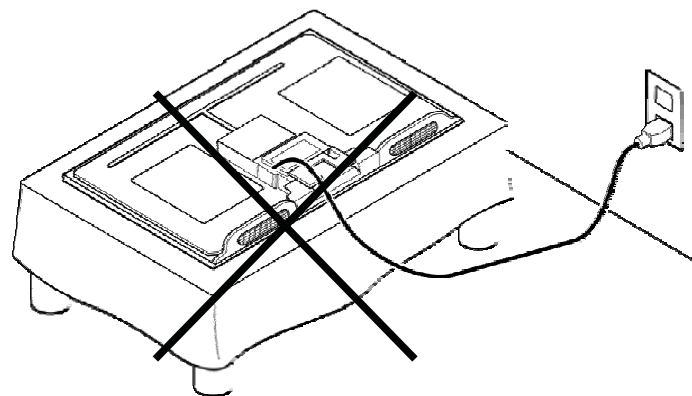
Les composants identifiés par une trame et par une marque ! sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel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

## USE CAUTION WHEN HANDLING THE LCD PANEL

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

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

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



# SAFETY CHECK-OUT

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

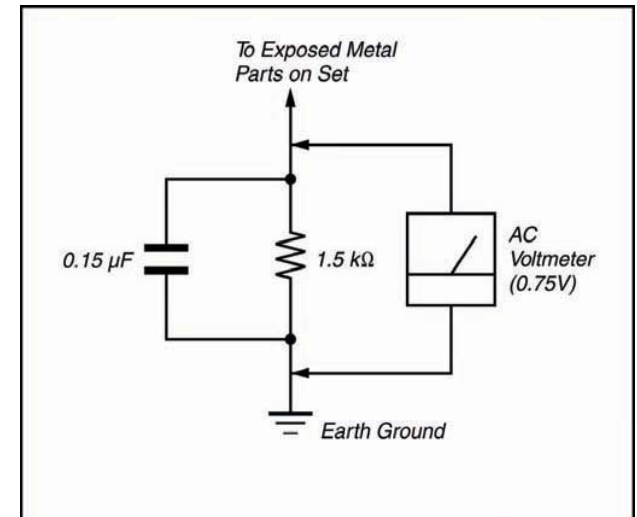
1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground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

### Leakage Test

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

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

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



FigureA. Using an AC voltmeter to check AC leakage.

### How to Find a Good Earth Ground

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

If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

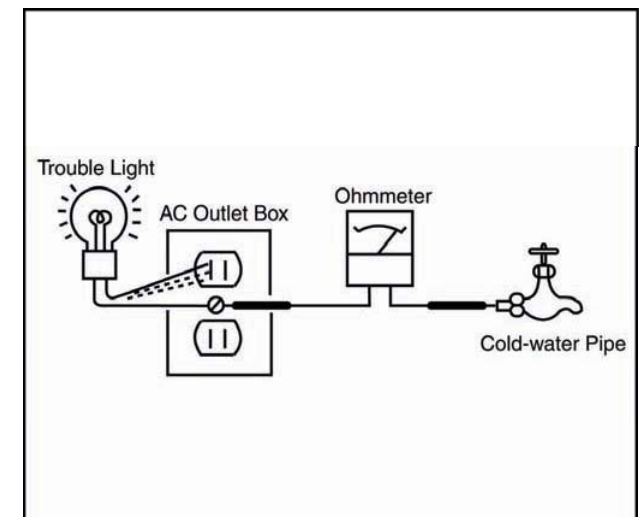


Figure B. Checking for earth ground.

# SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY 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 STANDBY 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

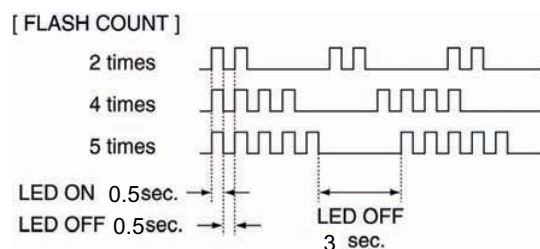
When an error occurs, the STANDBY LED will flash a set number of times to indicate the possible cause of the problem.

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 .

## DISPLAY OF STANDBY LED FLASH COUNT



Note: One flash counts is not self-diagnostic.

STBY LED Flash time	Service menu Item name (Screen Display)	Diagnostic Item Description
2	MAIN_POWE	Main 12 V failure
3	DC_ALERT	Main 5.0/3.3/1.2 V failure
	AUD_PROT	Audio amp. protection
	HDMI_EQ	HDMI equalizer/switch I2C NACK
	TU_DEMOD	Tuner or demodulator I2C NACK
4	-	Not used
5	P_ID_ERR	Panel ID EEPROM I2C NACK (Also panel power failure is a suspect)
6	BACKLITE	Backlight failure
7	TEMP_ERR	Over temperature protection
	TEMP_ERR	Temp. sensor I2C NACK
8	-	Software Error (Also the main board's memory or Wi-Fi module is a suspect)
9	-	Not used
10	-	Not used
11	-	Not used
12	-	Not used

## SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

### [To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

DISPLAY → Channel 5 → Volume <sup>\*</sup> - → TV POWER

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

## [SELF DIAGNOSTIC SAMPLE SCREEN DISPLAY]

SELF CHECK

000	RESERVED	-----	00
000	RESERVED	-----	00
002	MAIN_POWE	-----	00
003	DC_ALERT	-----	00
003	AUD_PROT	-----	00
003	HDMI_EQ	-----	00
003	TU_DEMOD	-----	00
004	VLED	-----	00
004	LD_ERR	-----	00
005	HFR_ERR	-----	00
005	TCON_ERR	1108231325	01
005	P_ID_ERR	-----	00
006	BACKLITE	-----	00
007	TEMP_ERR	-----	00
007	FAN_ERR	-----	00
010	EMITTER	-----	00
101	VPC_WDT	-----	00
102	MEPS_WDT	-----	00
103	HOST_WDT	-----	00
104	STBY_WDT	-----	00

0081-00671-00088

Panel operation time by hour (MAX:65535)

Boot count (MAX:65535)

Total operation time by hour (MAX:65535)

Error history (Last failure time beforehand) \*1

Error history (Failure time before last) \*1

Error history (The last failure time) \*1

\*1 : Format of error history  
YYMMDDhhmm (in UTC)  
Example:1108231325 -> Aug 23 13:25 2011 UTC

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen.  
After you have completed the repairs, clear the result display to "0".

## Clearing the Self Check Diagnostic List


1. Error history and Error count : Press the Channel 8 => Channel 0 .
2. Panel operation time : Press the Channel 7 => Channel 0 .

## Exiting the Self-diagnostic screen

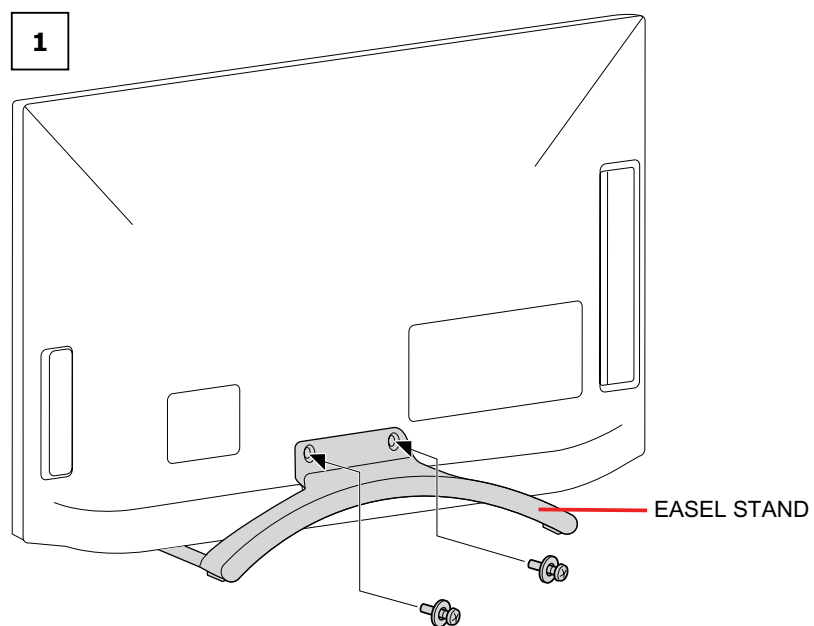
To exit the Self Diagnostic screen, turn off the power to the TV by pressing the POWER button on the remote or the POWER button on the TV.

# SEC 1. DISASSEMBLY

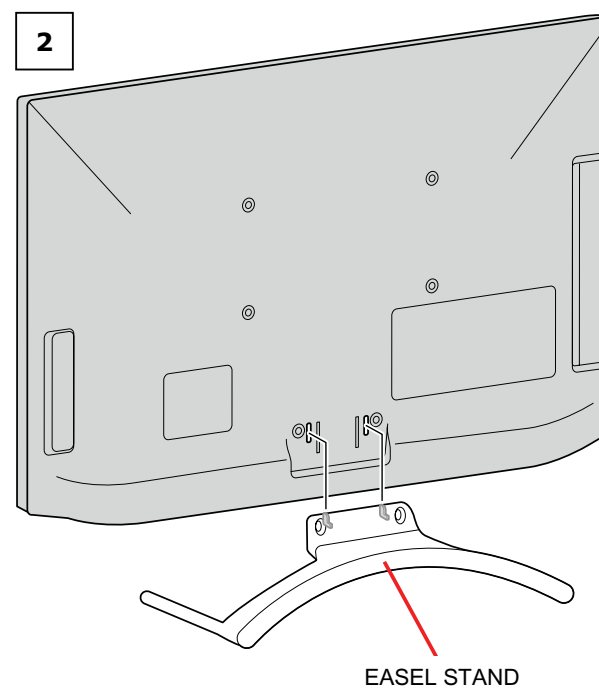
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- There are clutch in the yellow frame[  ]. Therefore please be careful in the case of the disassembly or assembly of parts.

Note: When removing the rear cover, to prevent damaging the rear cover, please refer **Appendix 1**.

**1-1. KDL-22EX550/553/555****1-1-1.EASEL STAND**

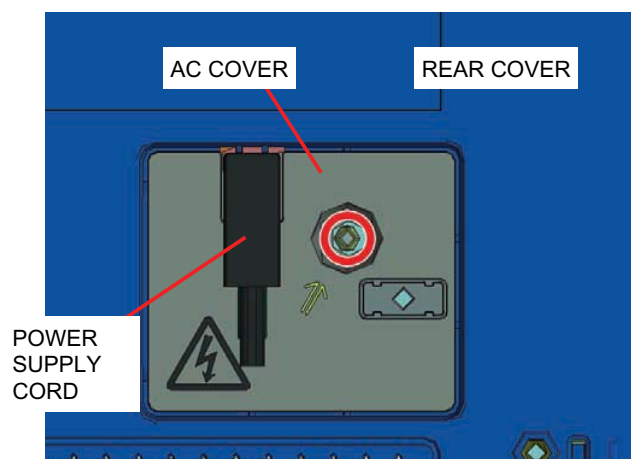
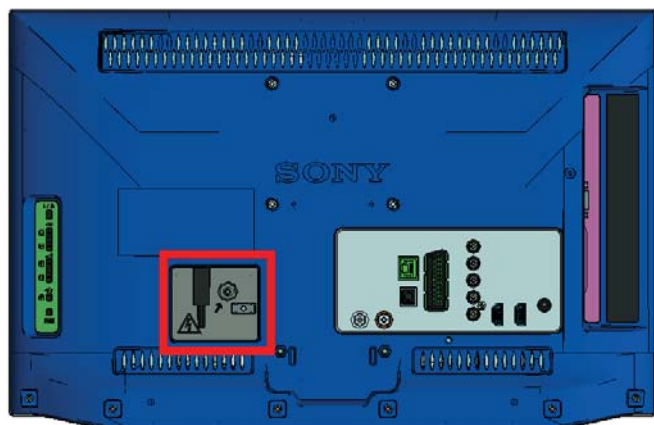
2 Screws (SCREW, +PSW M5X16) P/N: 2-580-608-01





## 1-1. KDL-22EX550/553/555

### 1-1-2. AC COVER AND POWER SUPPLY CORD



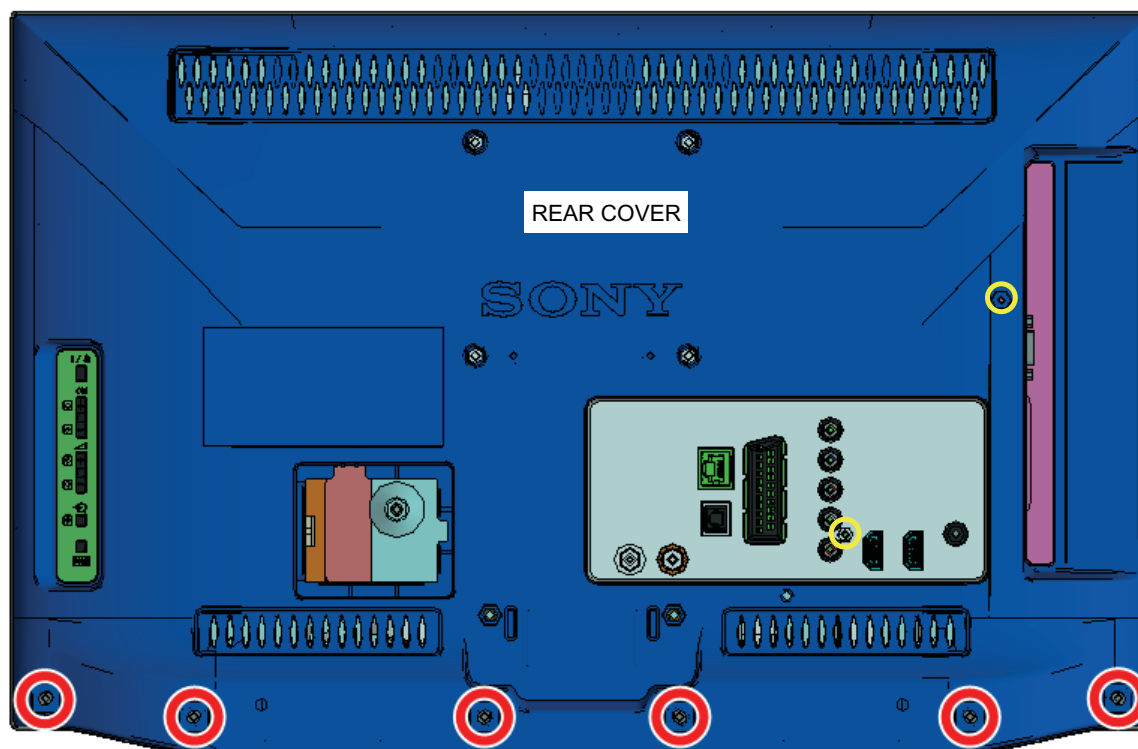
1 Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-01



Note: When assemble the AC COVER, hold the AC COVER and tighten a screw.

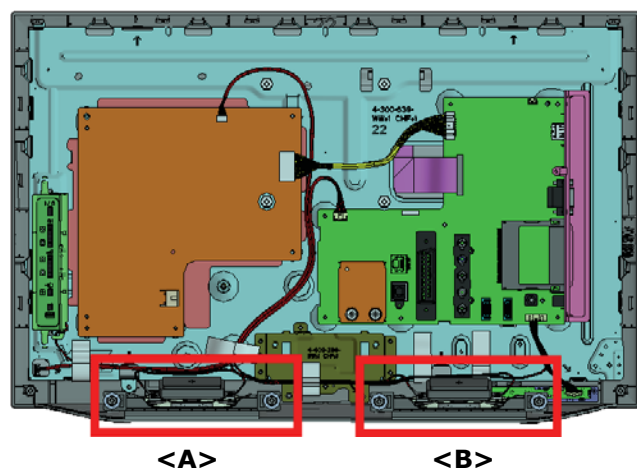


## 1-1. KDL-22EX550/553/555

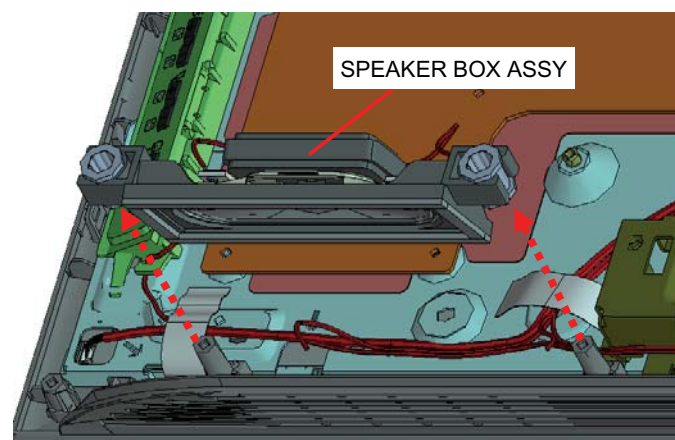
### 1-1-3. REAR COVER



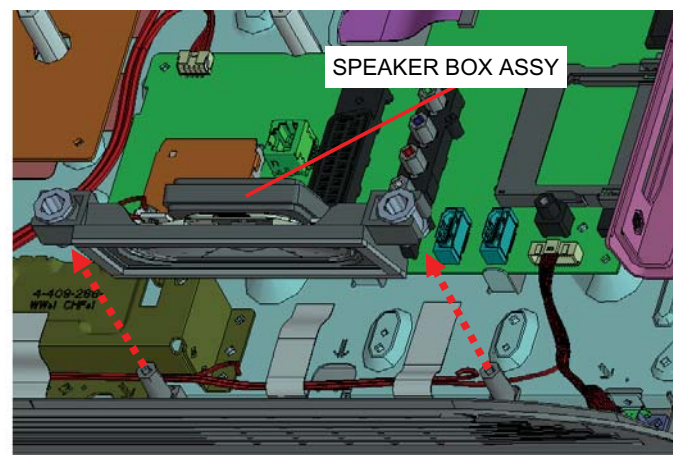
-  6 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01
-  2 Screws (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: 7-685-648-79

**1-1. KDL-22EX550/553/555****1-1-4. SPEAKER BOX ASSY**

&lt;A&gt;

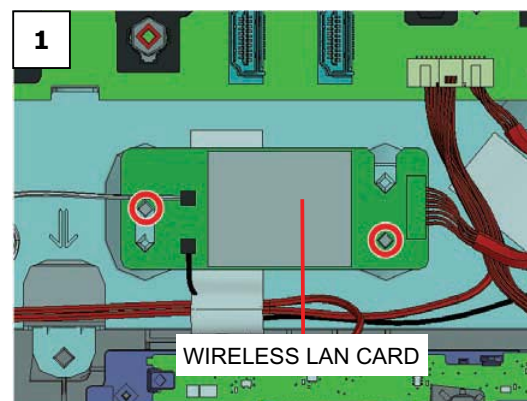
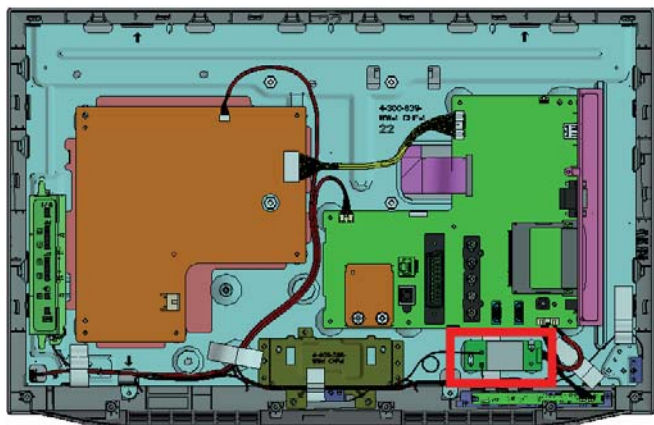


&lt;B&gt;

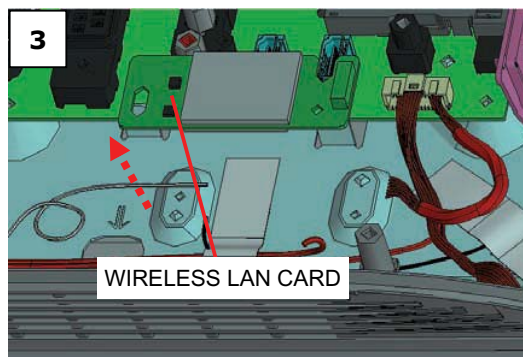
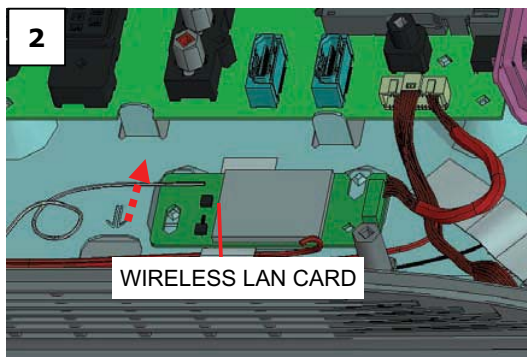


## 1-1. KDL-22EX550/553/555

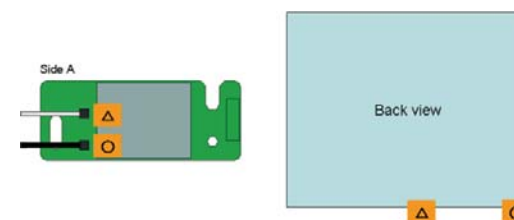
### 1-1-5. WIRELESS LAN CARD

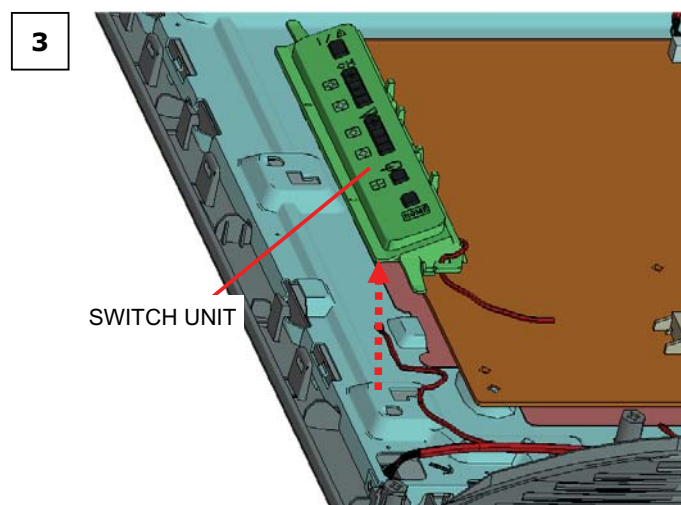
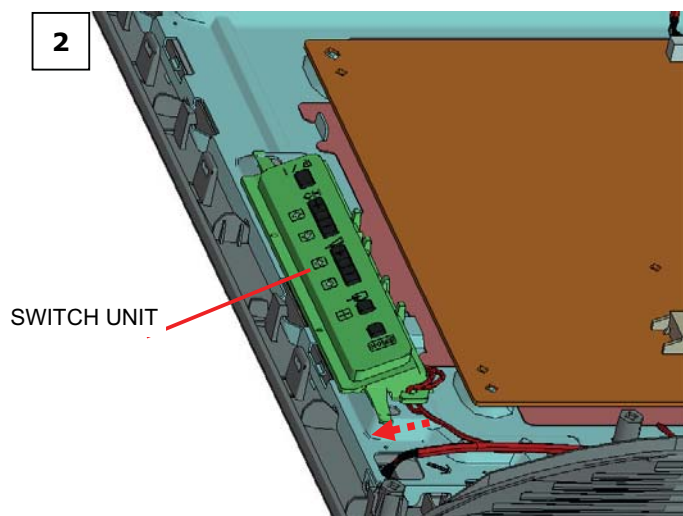
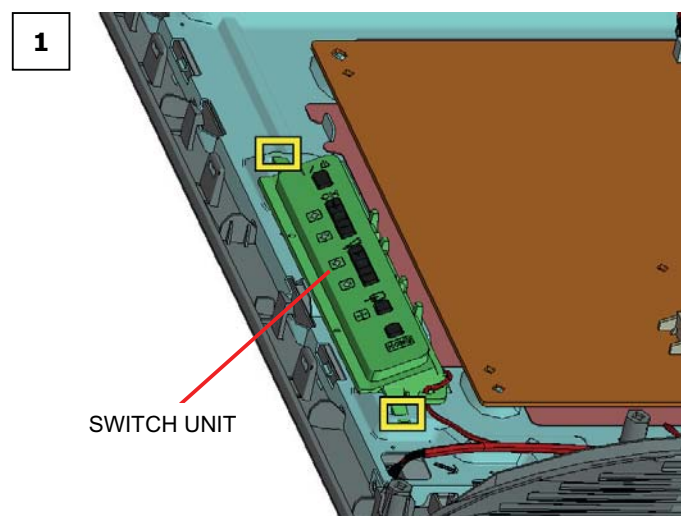
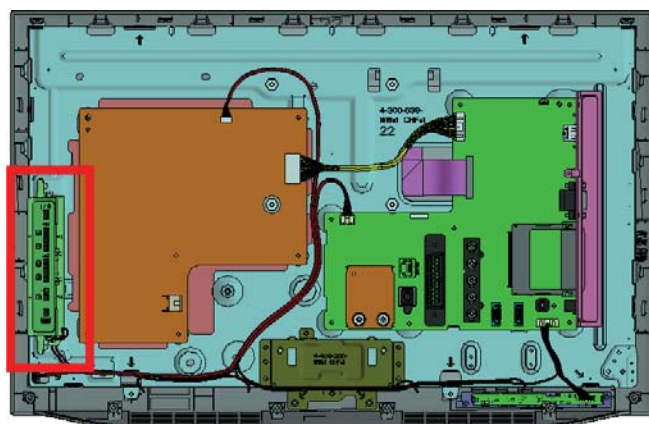


2 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



Note: Refer to the connection from the antenna when installing a wireless module.

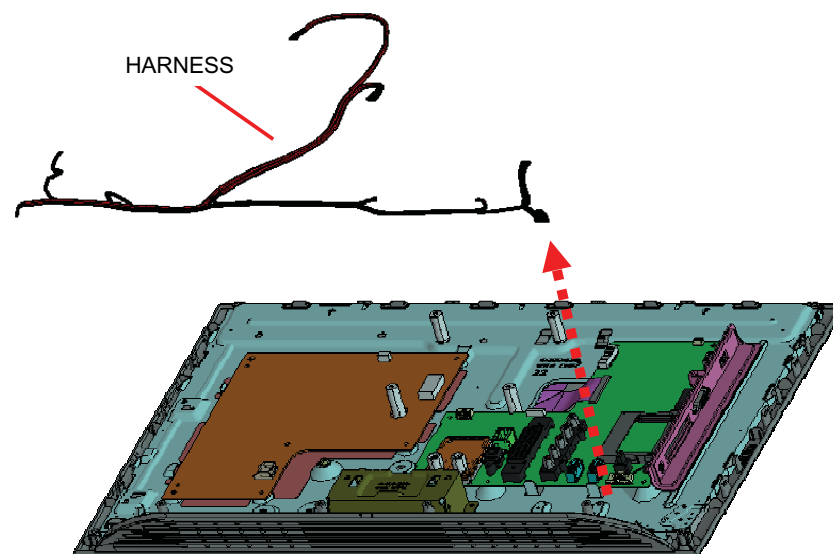
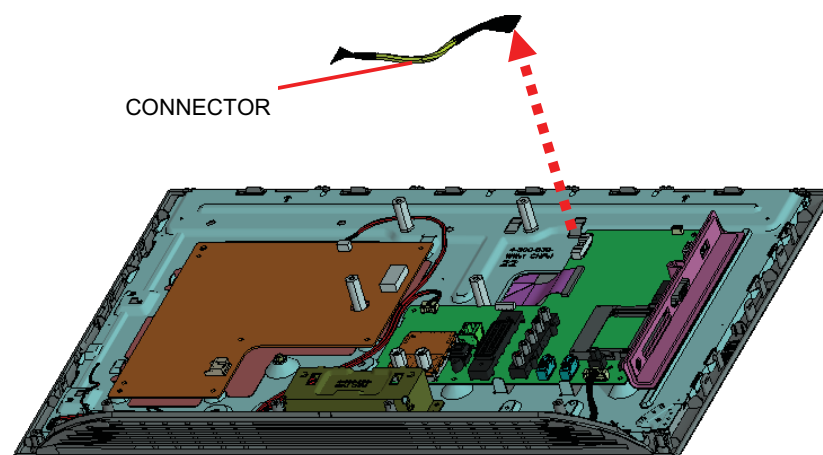


**1-1. KDL-22EX550/553/555****1-1-6. SWITCH UNIT**



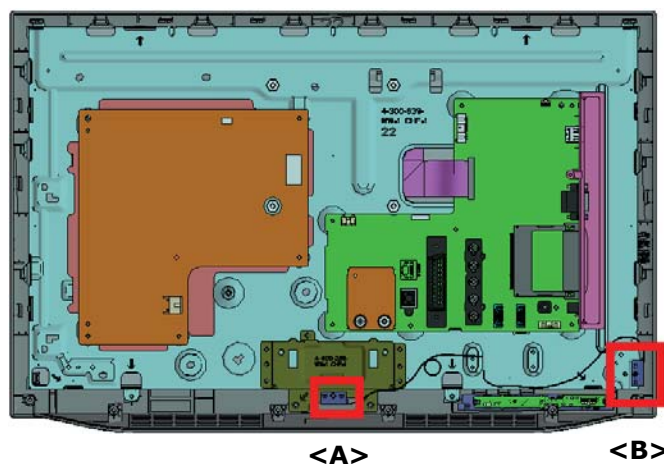
## 1-1. KDL-22EX550/553/555

### 1-1-7. CONNECTOR AND HARNESS



## 1-1. KDL-22EX550/553/555

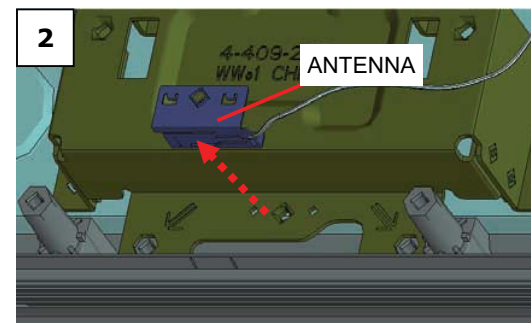
## 1-1-8. ANTENNA



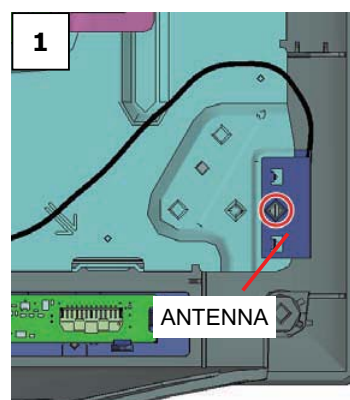
&lt;A&gt;



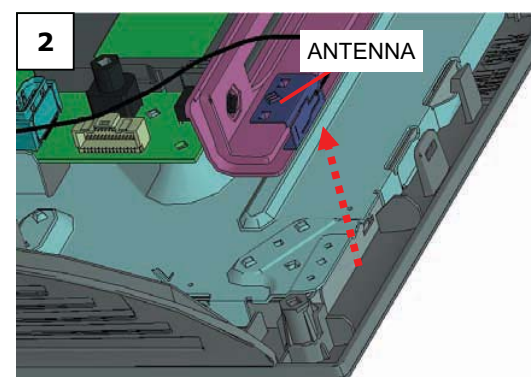
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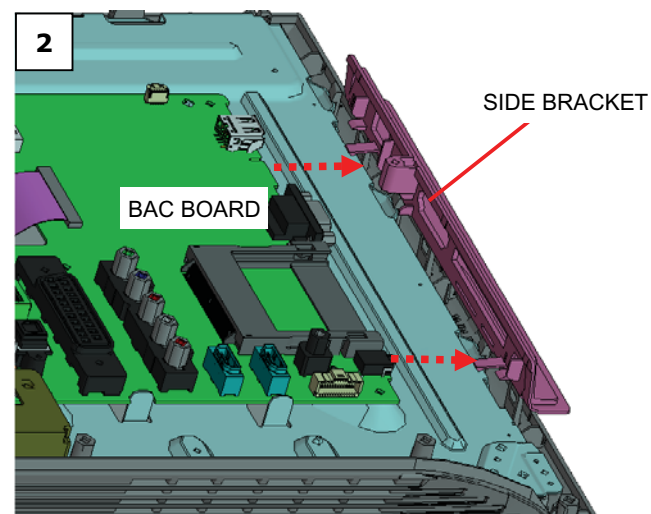
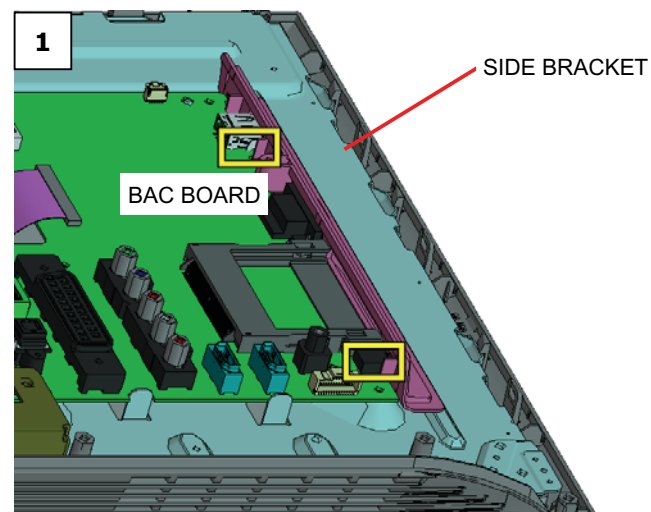
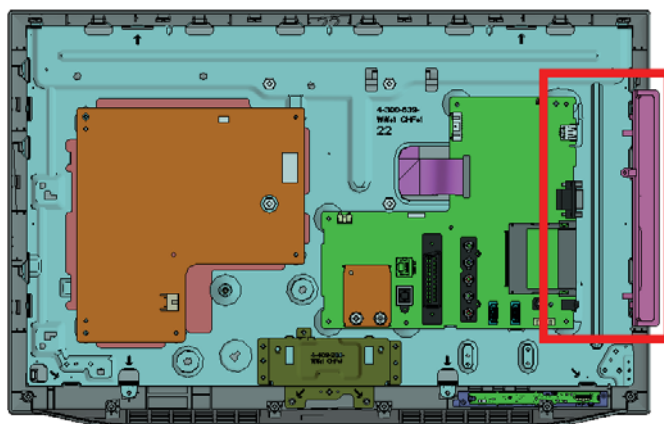


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1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

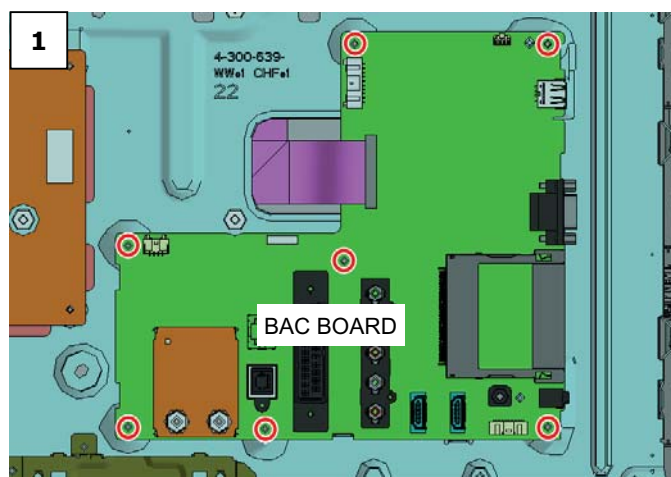
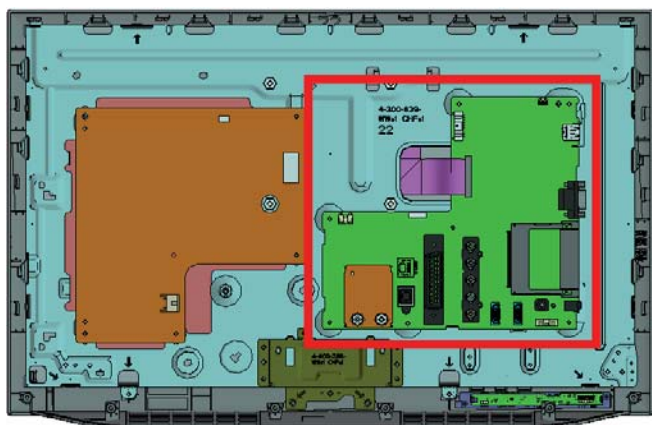


**1-1. KDL-22EX550/553/555****1-1-9. SIDE BRACKET**

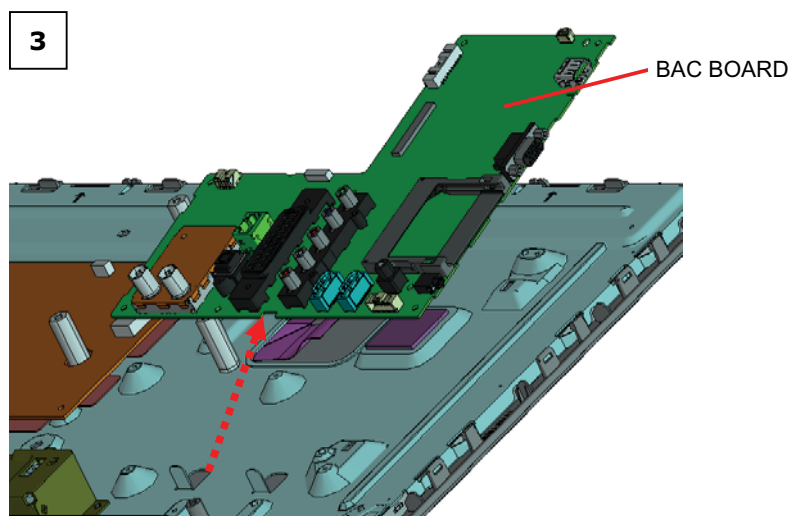
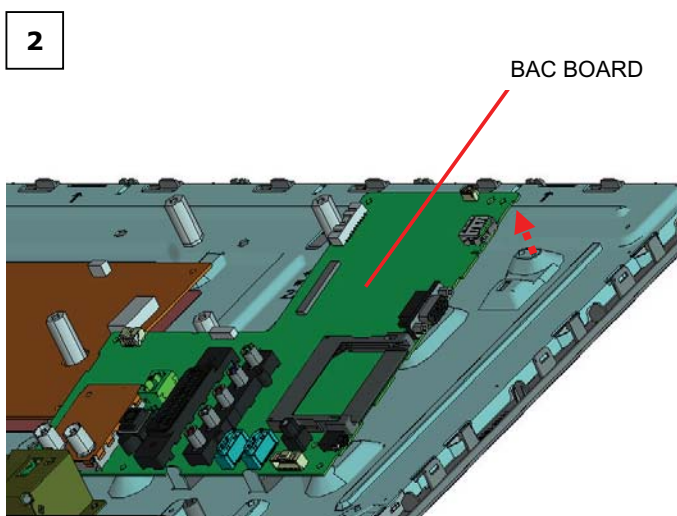


## 1-1. KDL-22EX550/553/555

### 1-1-10. BAC BOARD

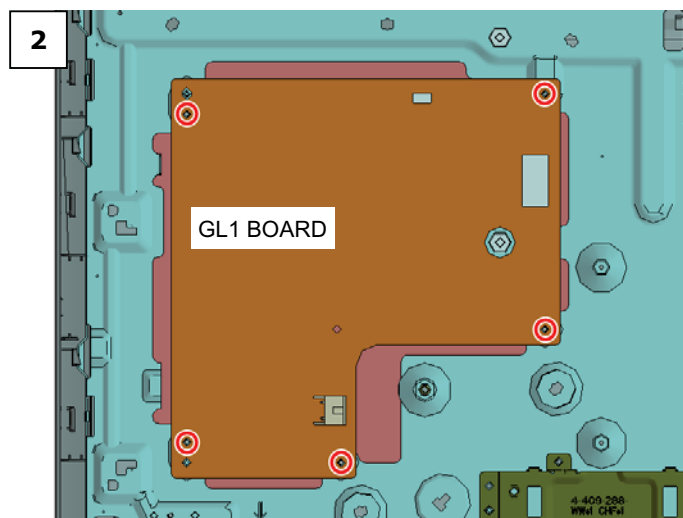
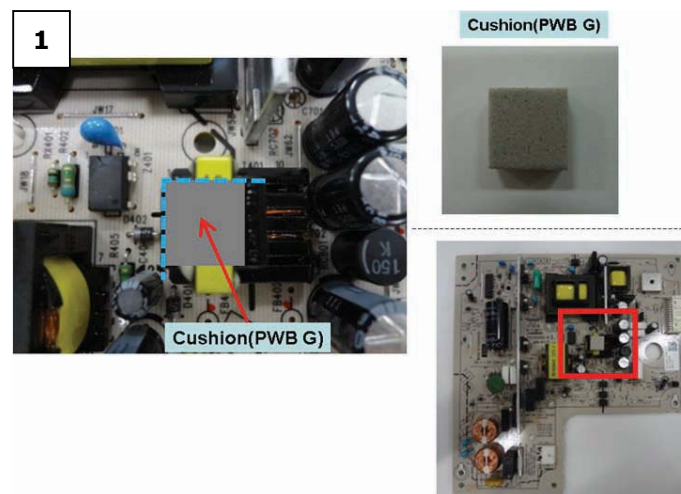
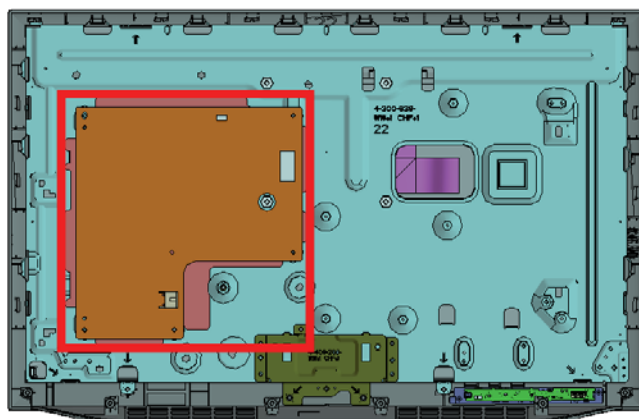


7 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

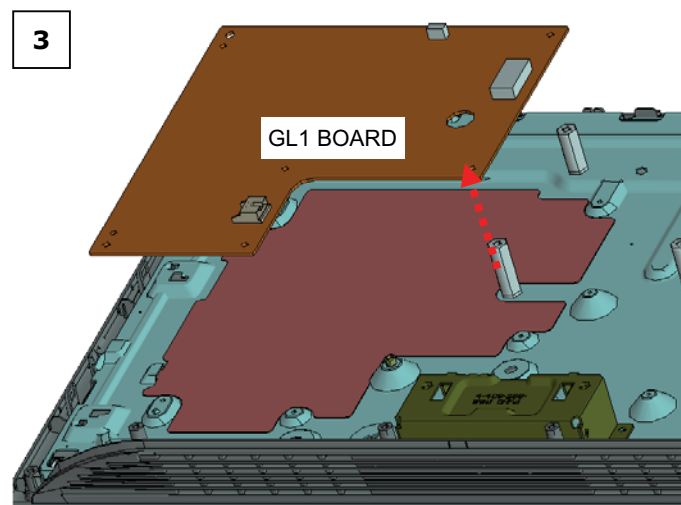


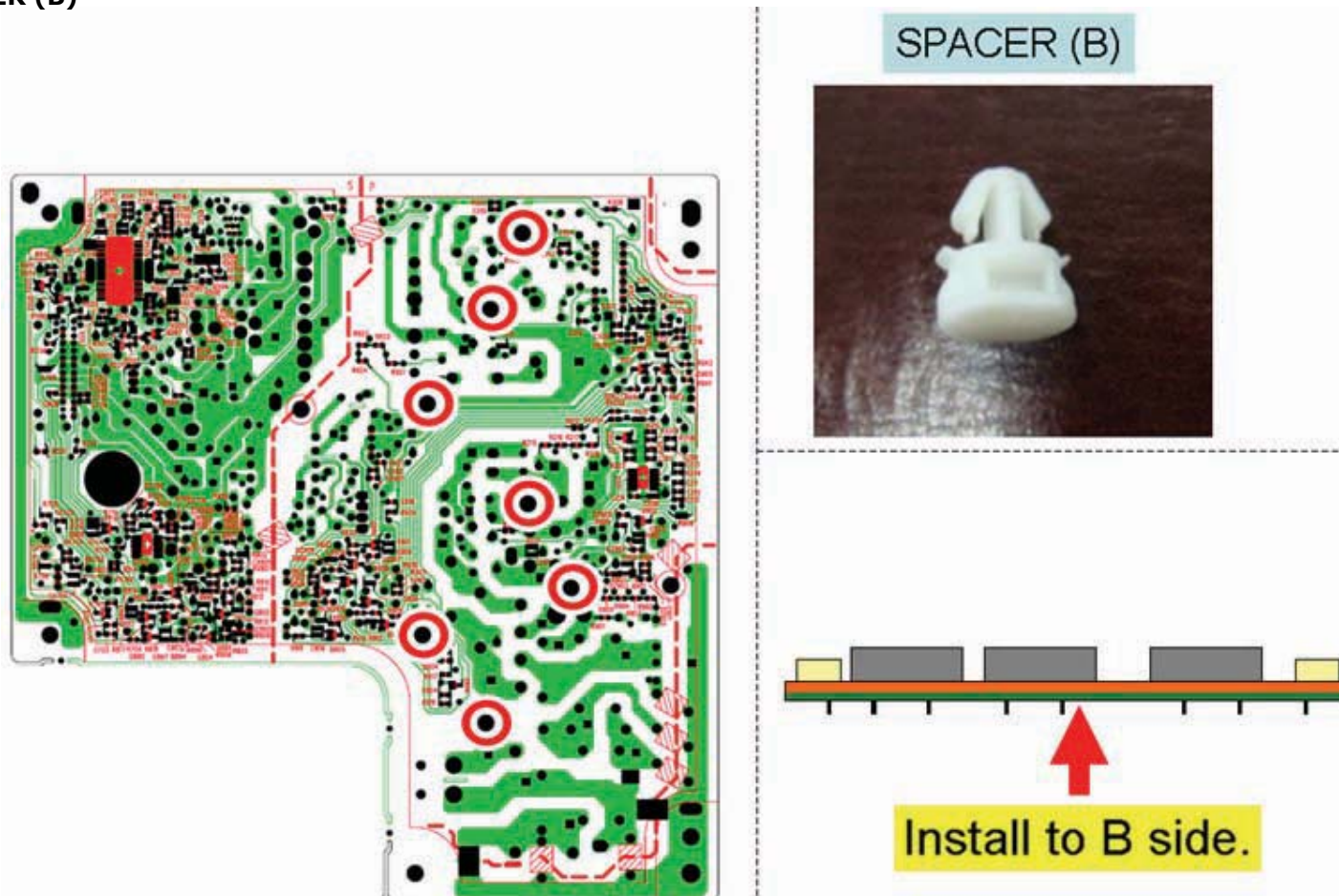
## 1-1. KDL-22EX550/553/555

### 1-1-11. GL1 BOARD

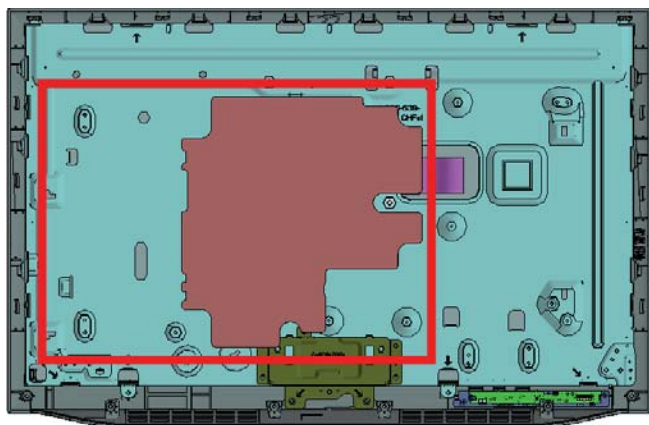
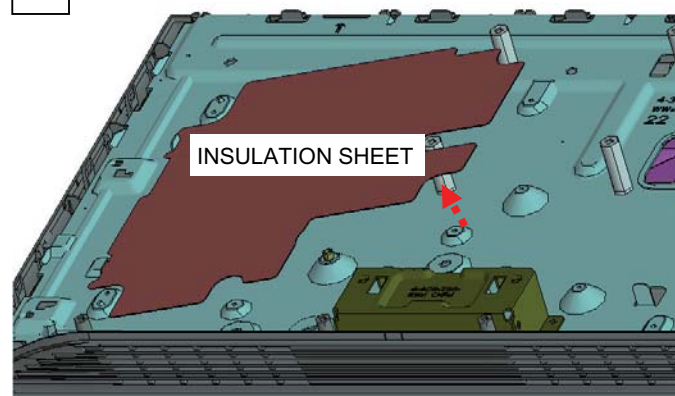
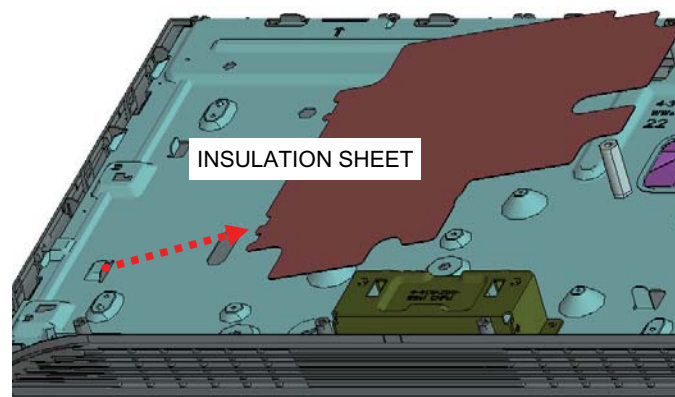


5 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



**1-1. KDL-22EX550/553/555****1-1-12. SPACER (B)**

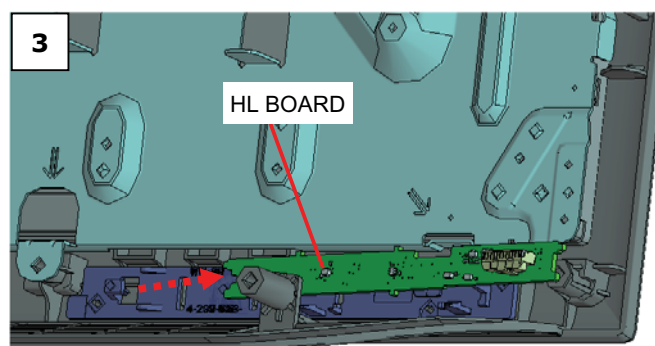
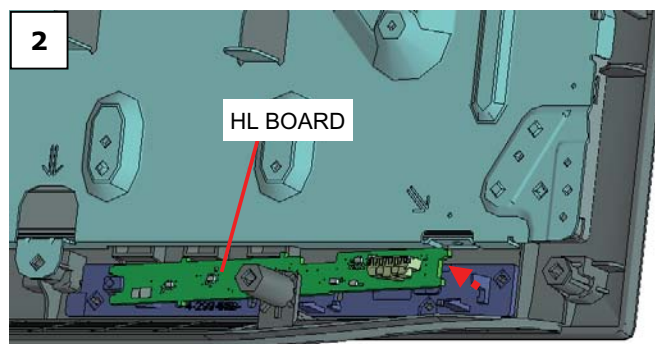
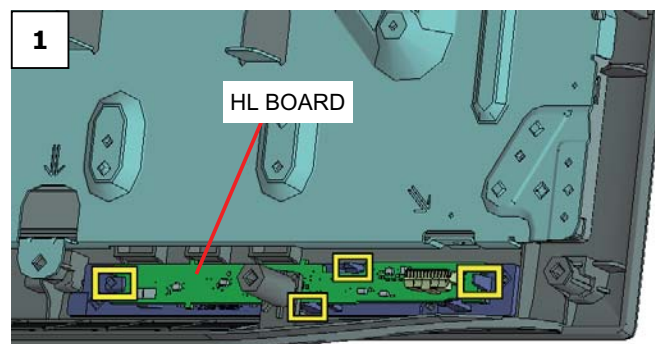
Note: Don't install G board without Spacers

**1-1. KDL-22EX550/553/555****1-1-13. INSULATION SHEET****1****2**



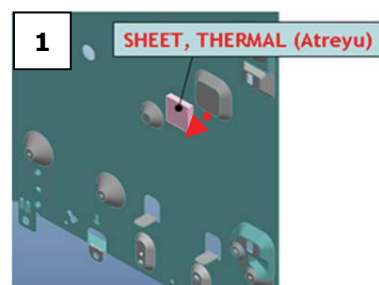
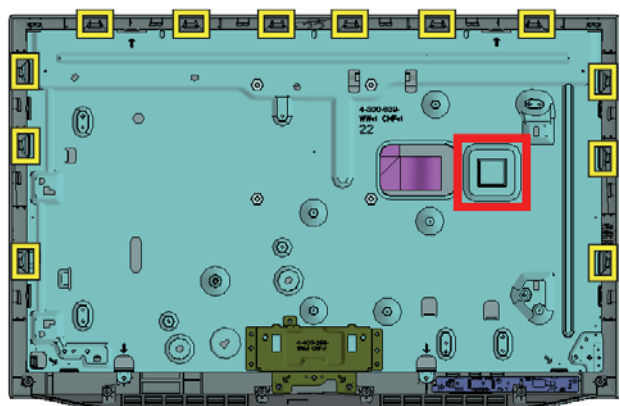
## 1-1. KDL-22EX550/553/555

### 1-1-14. HL BOARD

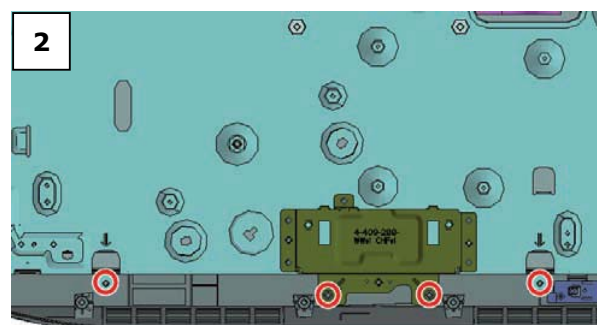
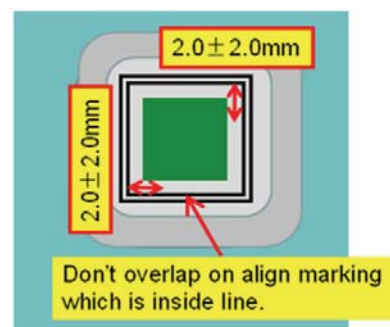


## 1-1. KDL-22EX550/553/555

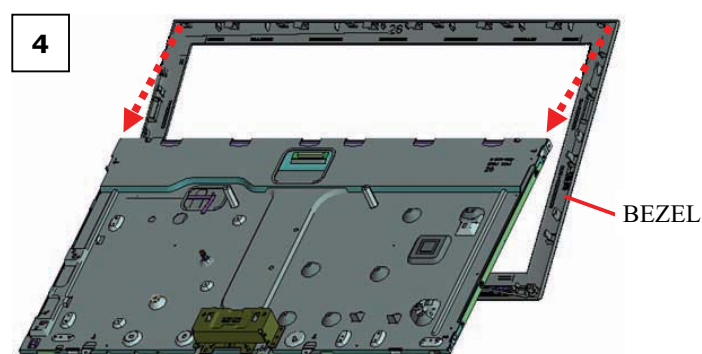
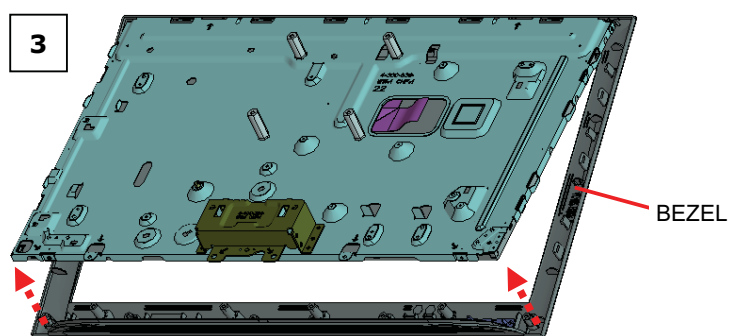
### 1-1-15. THERMAL SHEET AND BEZEL

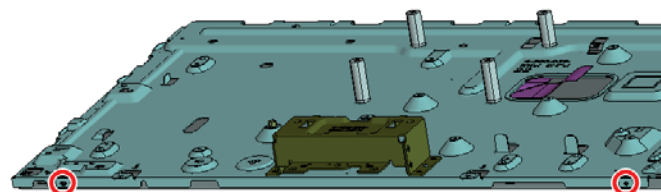
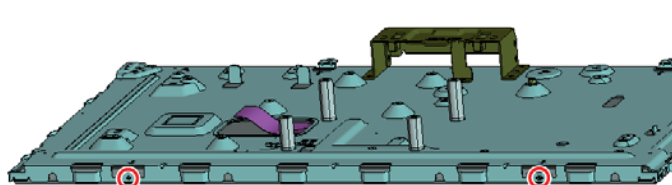


Note: Attention when attach the Thermal Sheet.

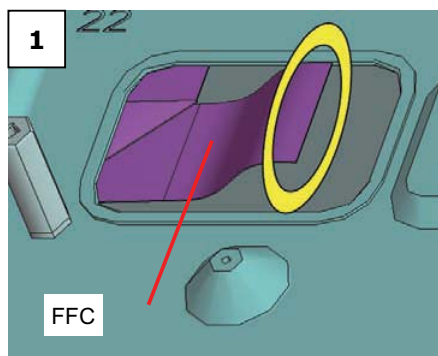


4 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01

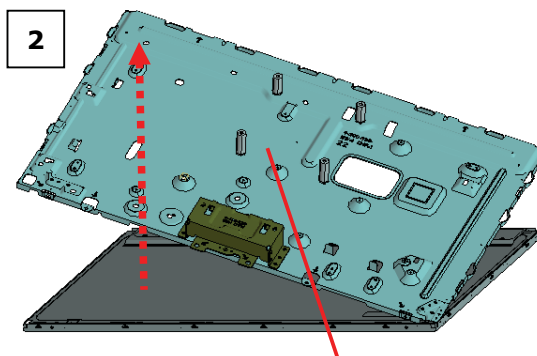


**1-1. KDL-22EX550/553/555****1-1-16. LCD BRACKET**

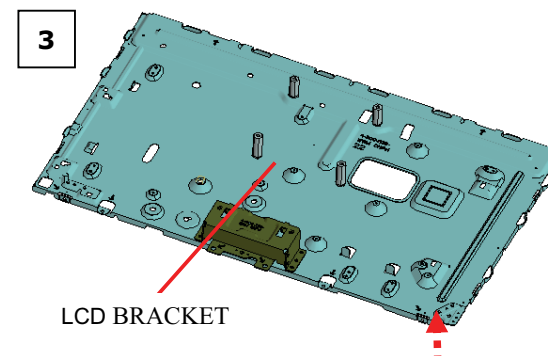
4 Screws (SCREW, +PSW M3X6) P/N: 2-990-421-41



Note: Don't pinch FFC when attaching LCD BRACKET to LCDPANEL.

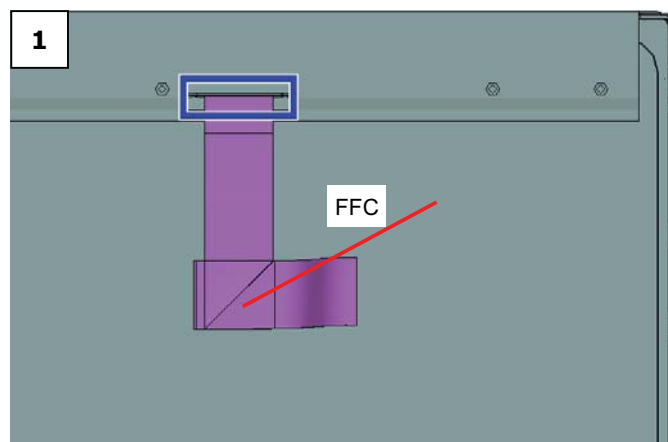


LCD BRACKET

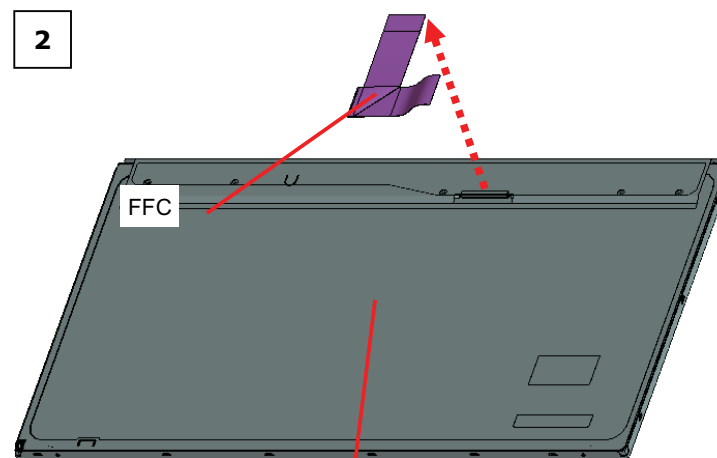


LCD BRACKET

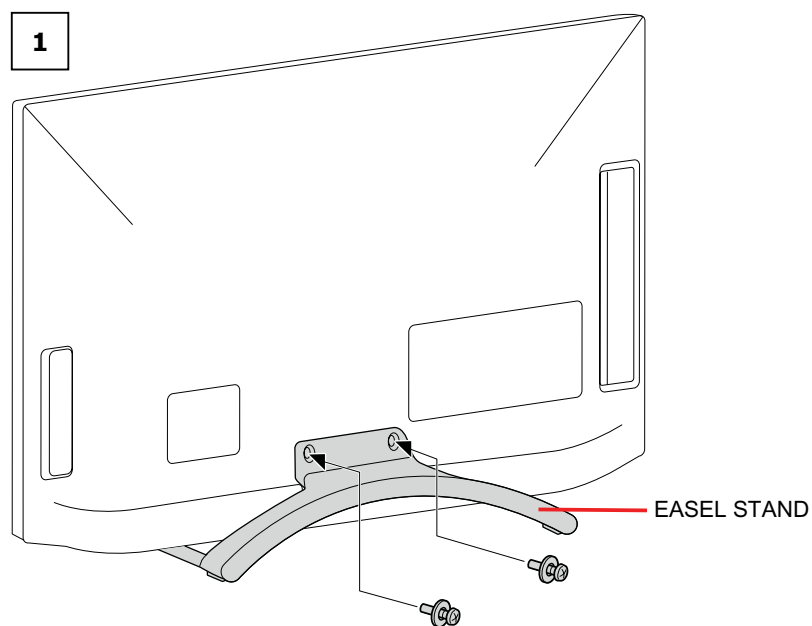
LCDPANEL

**1-1. KDL-22EX550/553/555****1-1-17. FFC AND LCD PANEL**

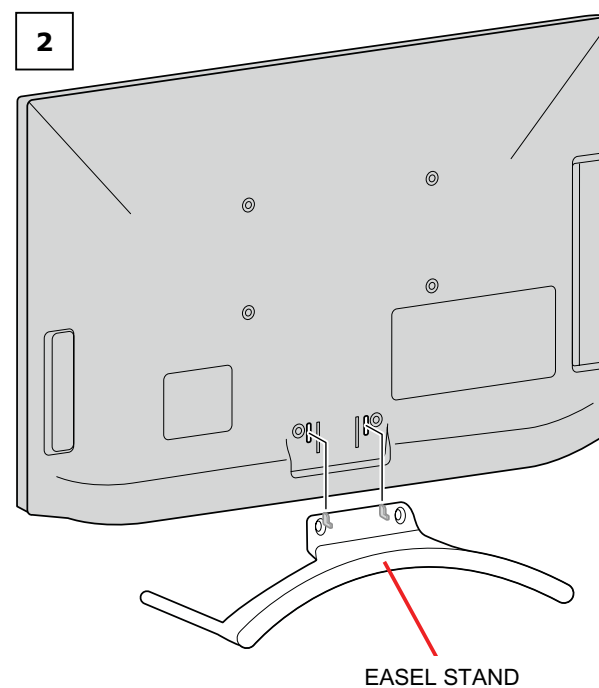
DISCONNECT





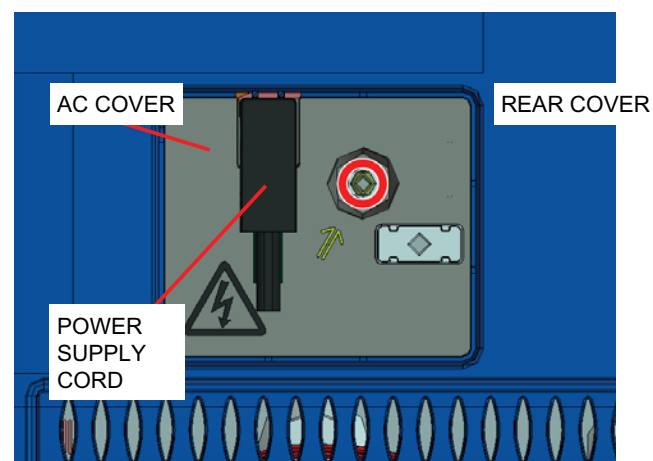
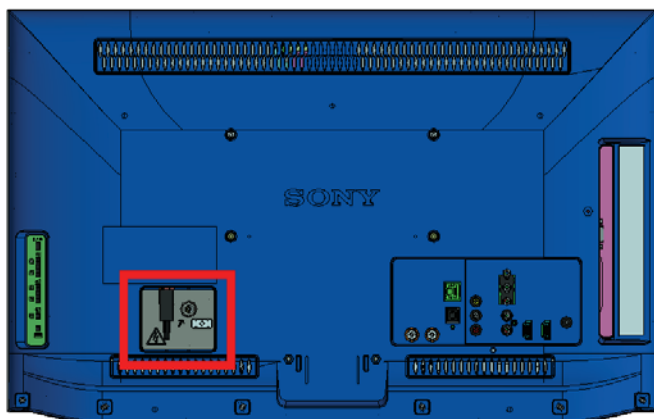
**1-2. KDL-26EX550/553/555****1-2-1.EASEL STAND**

2 Screws (SCREW, +PSW M5X16) P/N: 2-580-608-01



## 1-2. KDL-26EX550/553/555

### 1-2-2. AC COVER AND POWER SUPPLY CORD



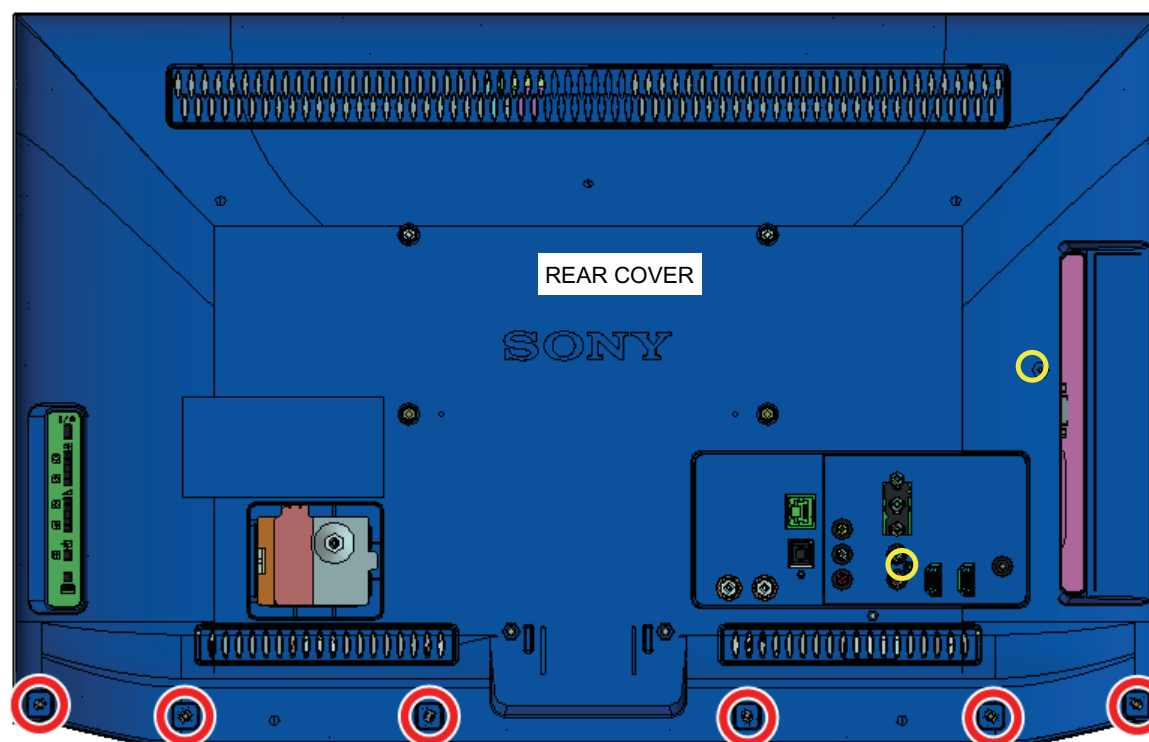
1 Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-01

Note: When assemble the AC COVER, hold the AC COVER and tighten a screw.

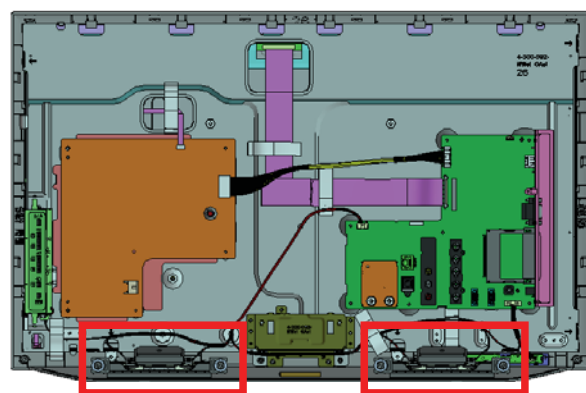


## 1-2. KDL-26EX550/553/555

### 1-2-3. REAR COVER



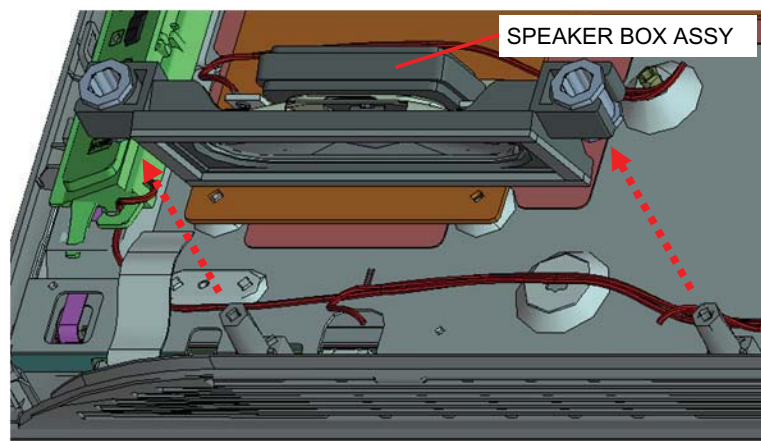
- 6 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01
- 2 Screws (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: 7-685-648-79

**1-2. KDL-26EX550/553/555****1-2-4. SPEAKER BOX ASSY**

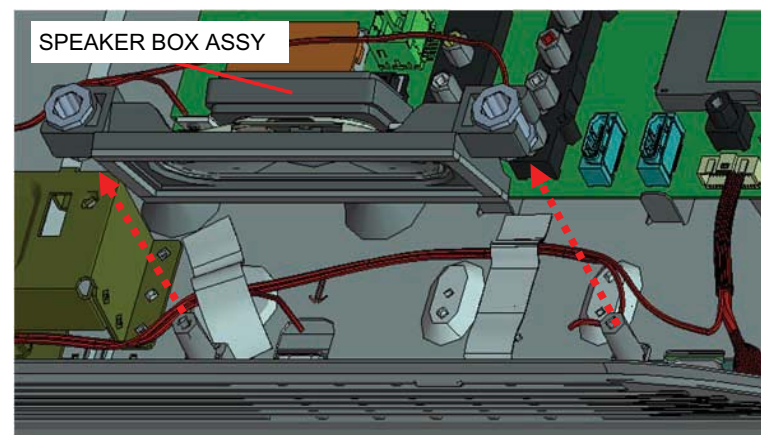
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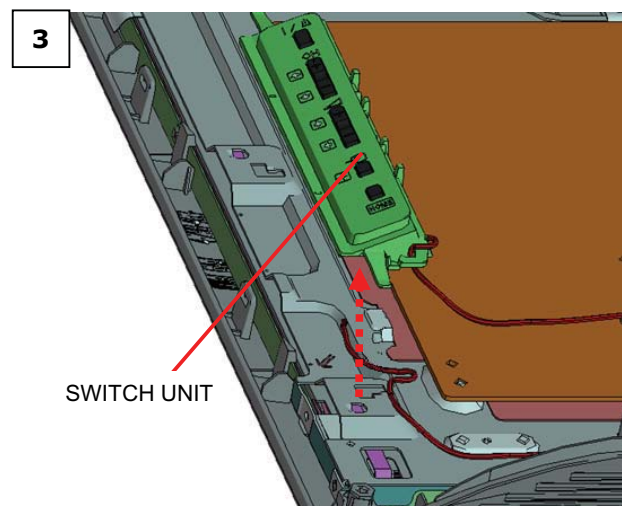
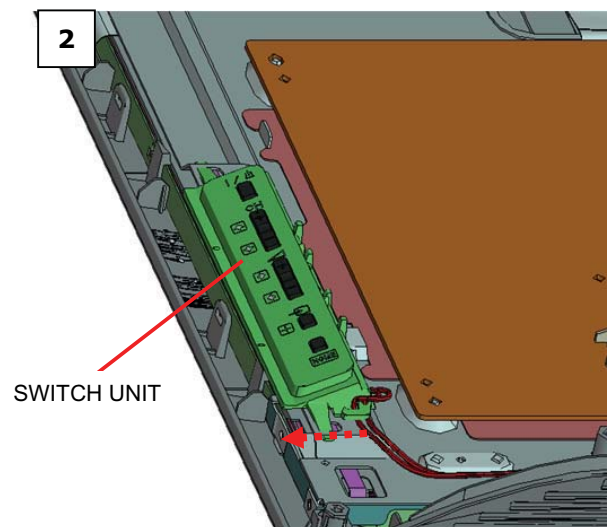
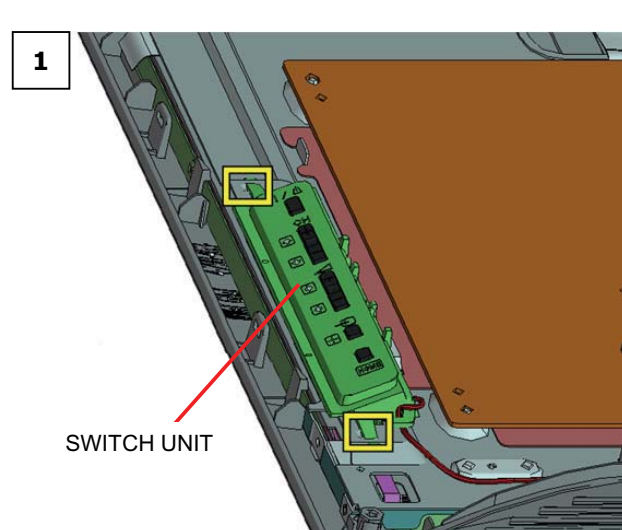
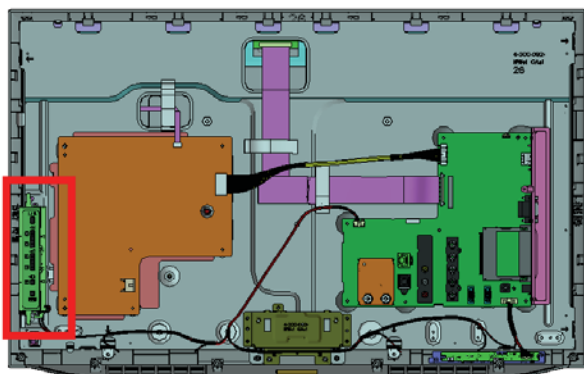
&lt;B&gt;

&lt;A&gt;



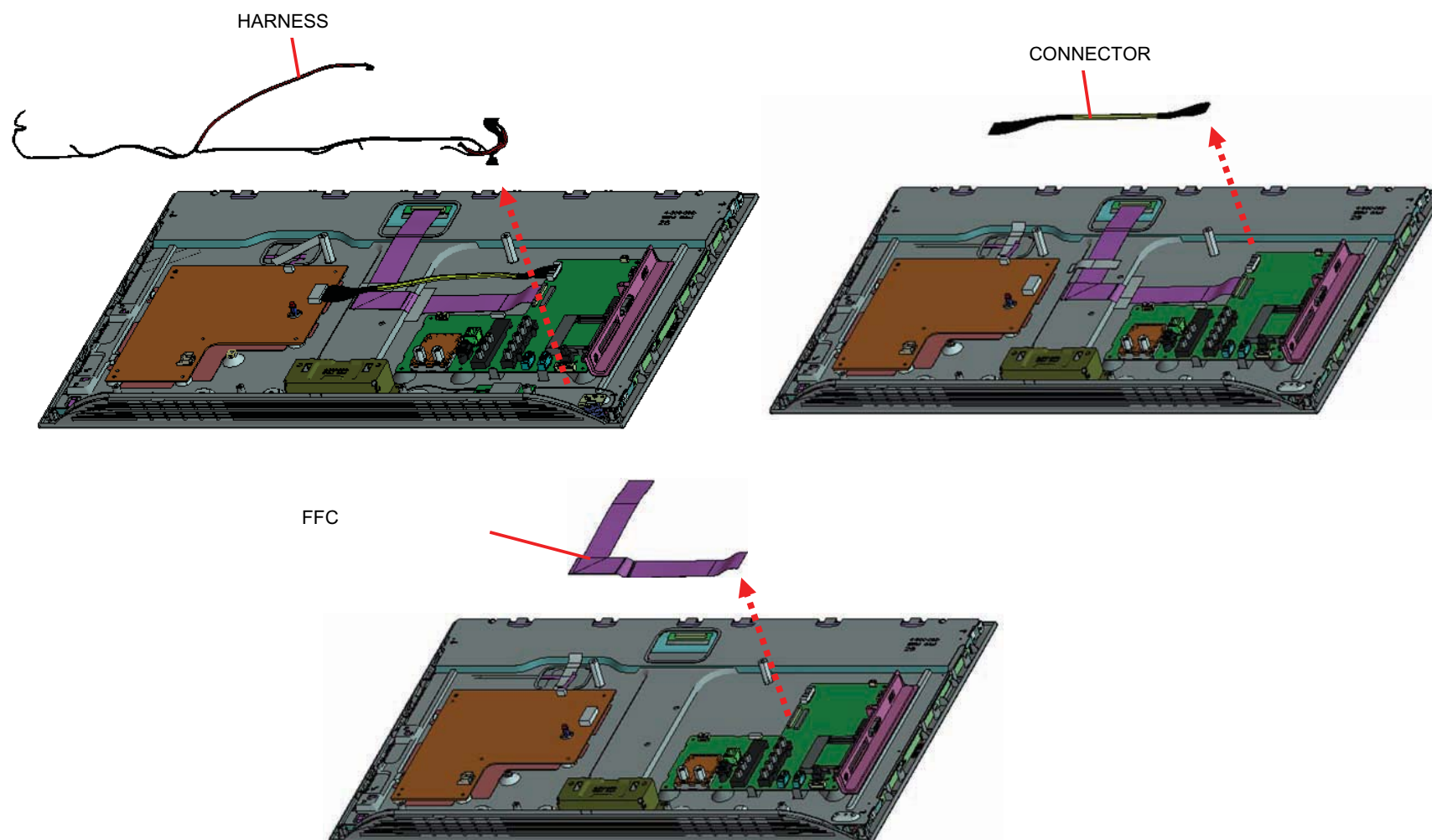
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**1-2. KDL-26EX550/553/555****1-2-5. SWITCH UNIT**

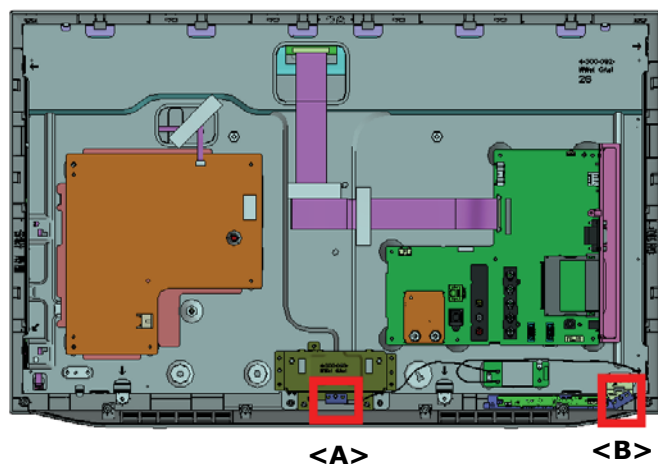
## 1-2. KDL-26EX550/553/555

### 1-2-6. CONNECTOR, HARNESS AND FFC

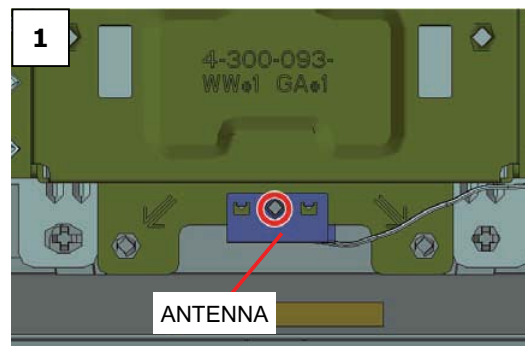


## 1-2. KDL-26EX550/553/555

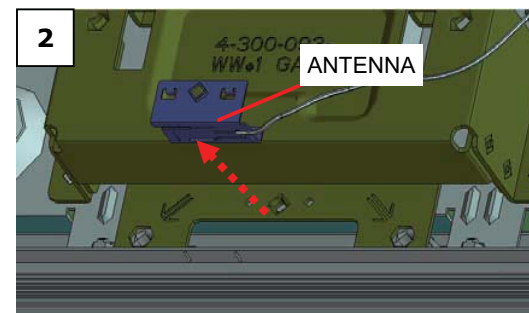
## 1-2-7. ANTENNA



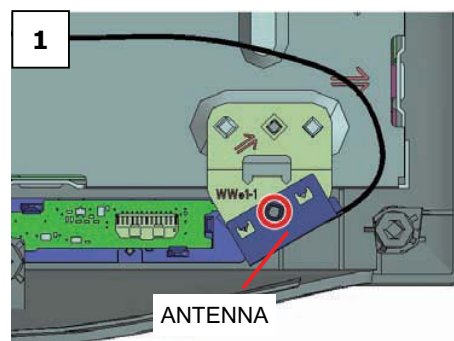
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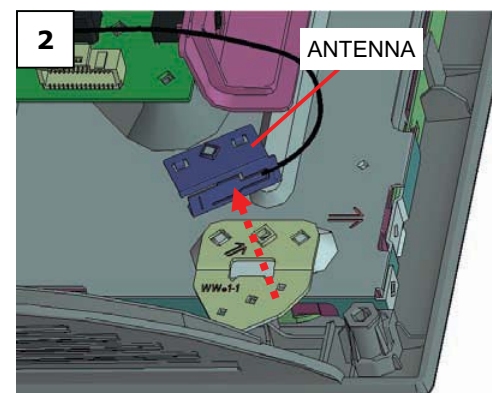
1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



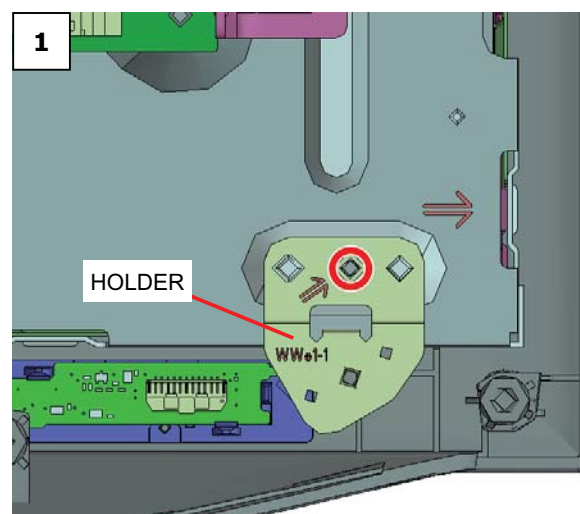
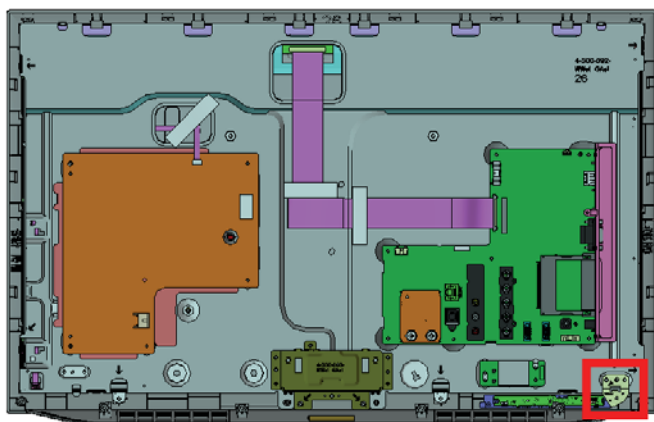
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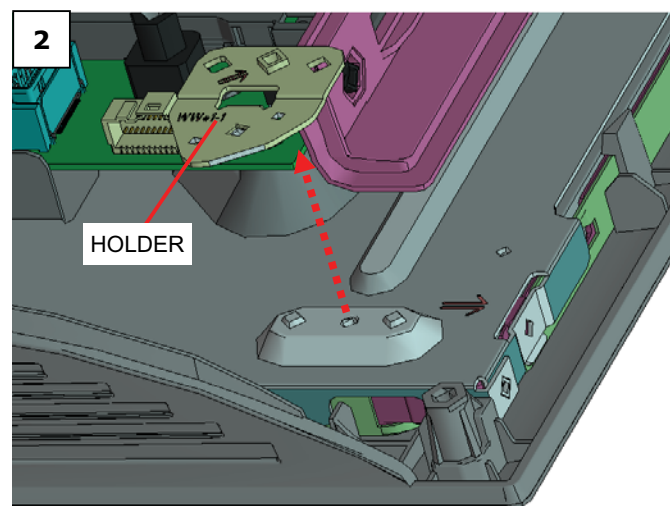
1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



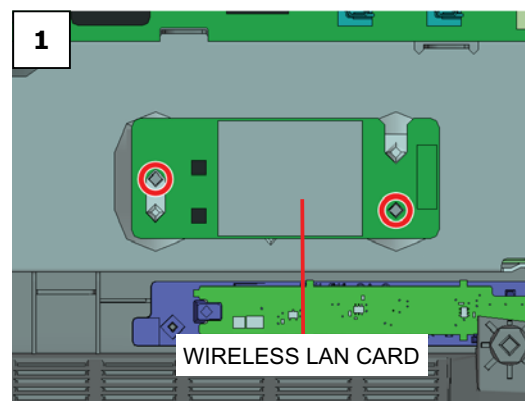
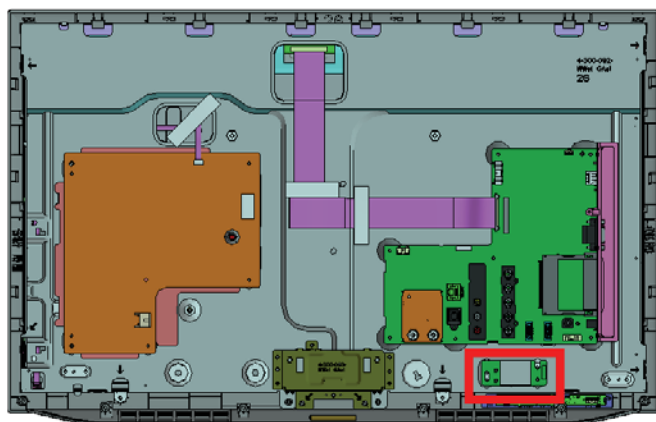


**1-2. KDL-26EX550/553/555****1-2-8. HOLDER**

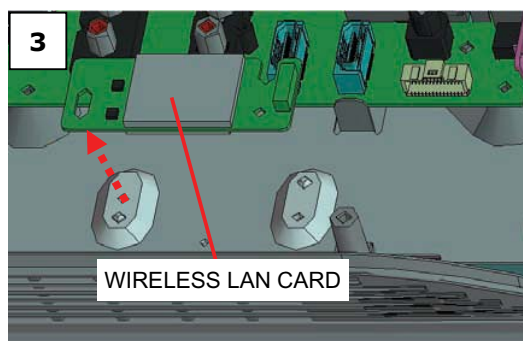
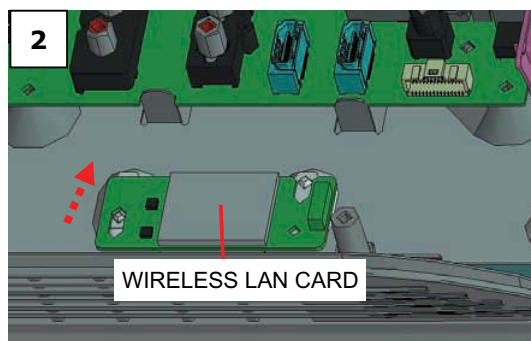
1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



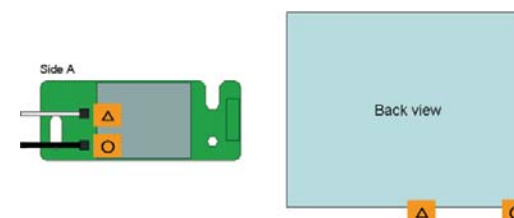


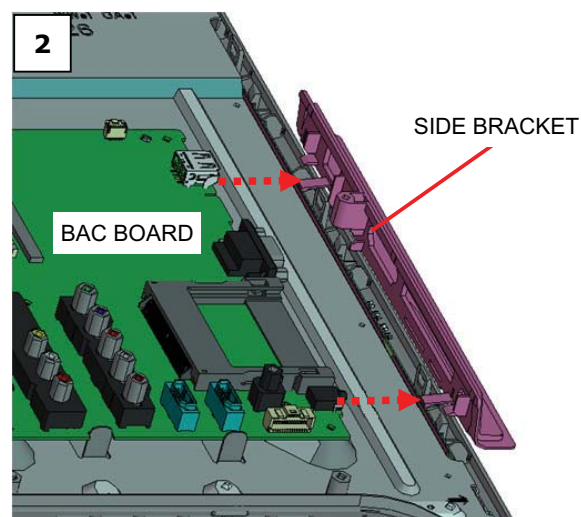
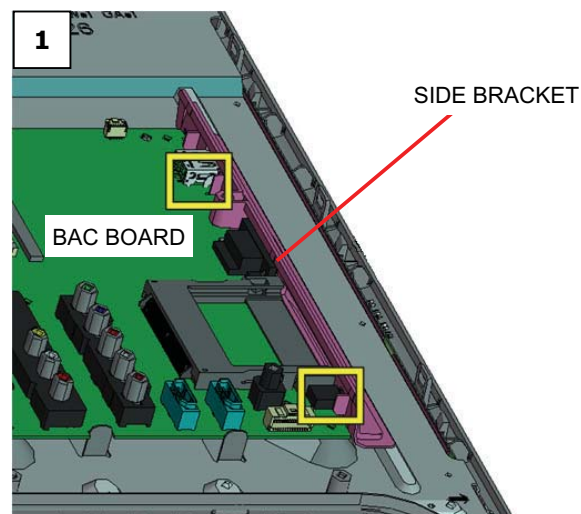
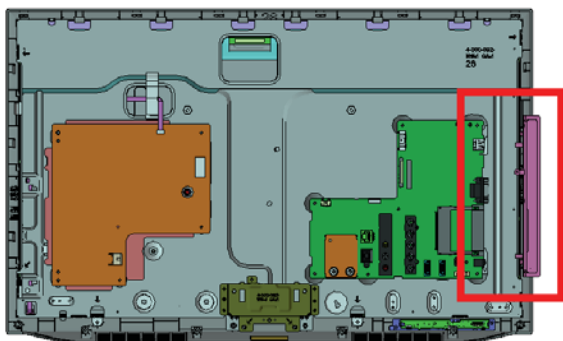
**1-2. KDL-26EX550/553/555****1-2-9. WIRELESS LAN CARD**

2 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



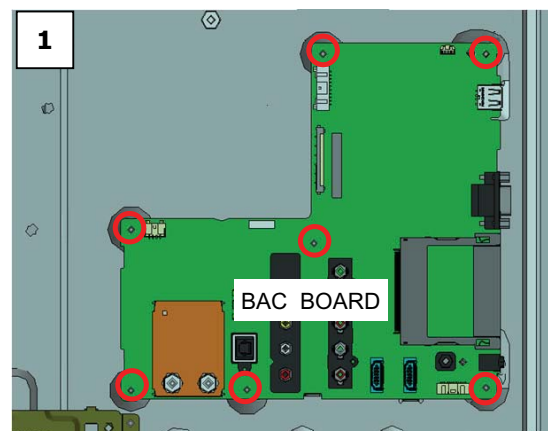
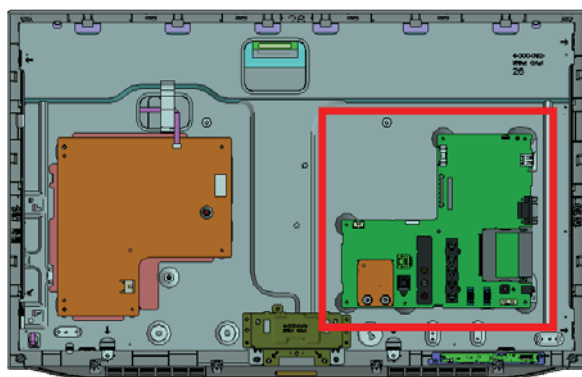
Note: Refer to the connection from the antenna when installing a wireless module.



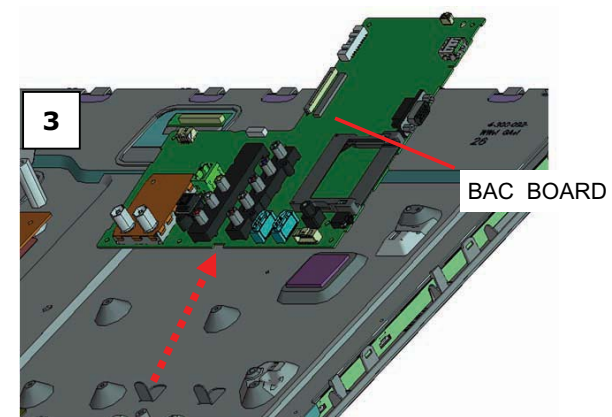
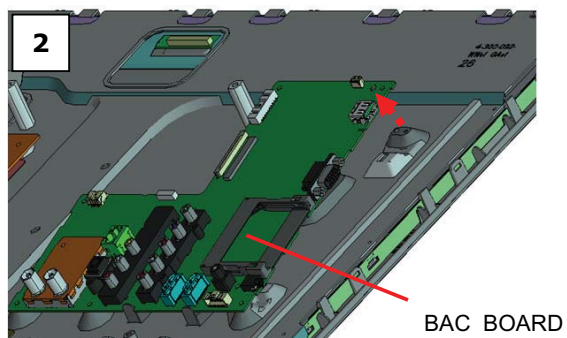
**1-2. KDL-26EX550/553/555****1-2-10. SIDE BRACKET**

## 1-2. KDL-26EX550/553/555

### 1-2-11. BAC BOARD

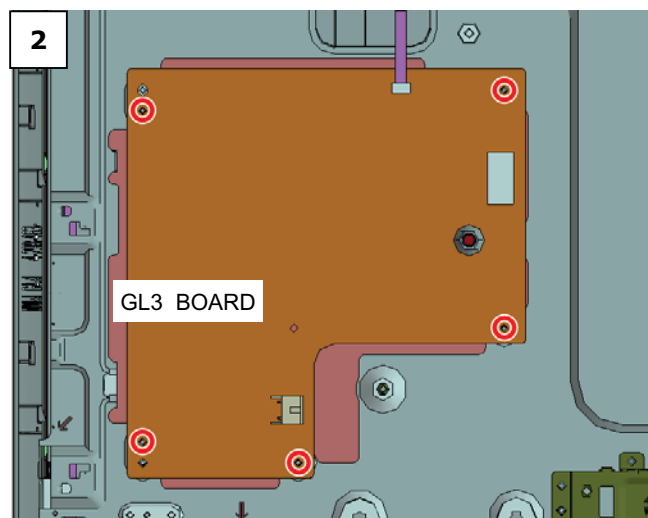
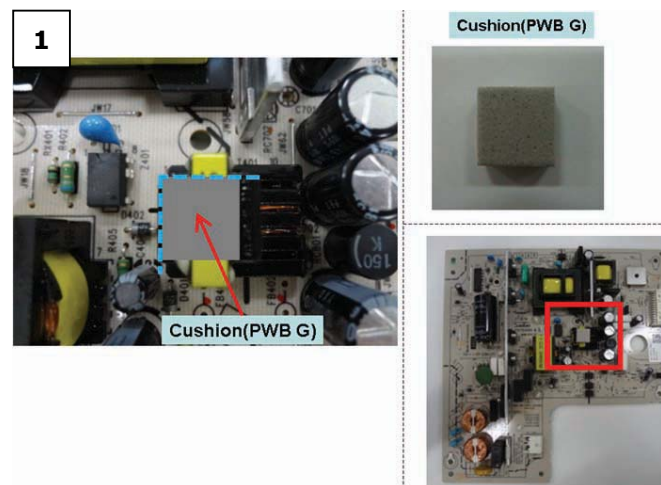


7 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

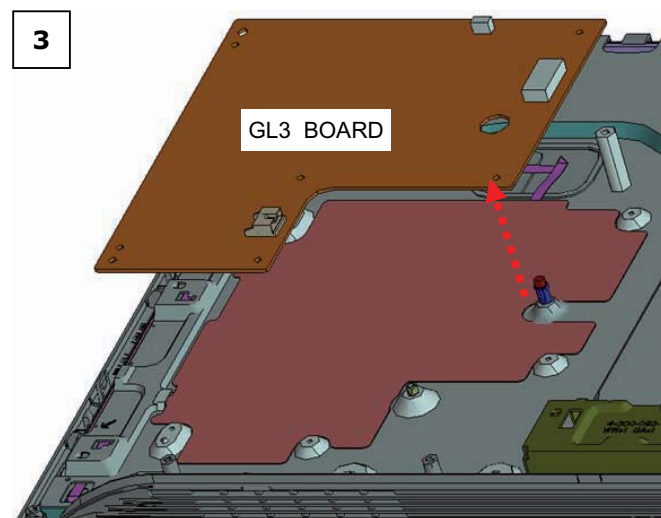


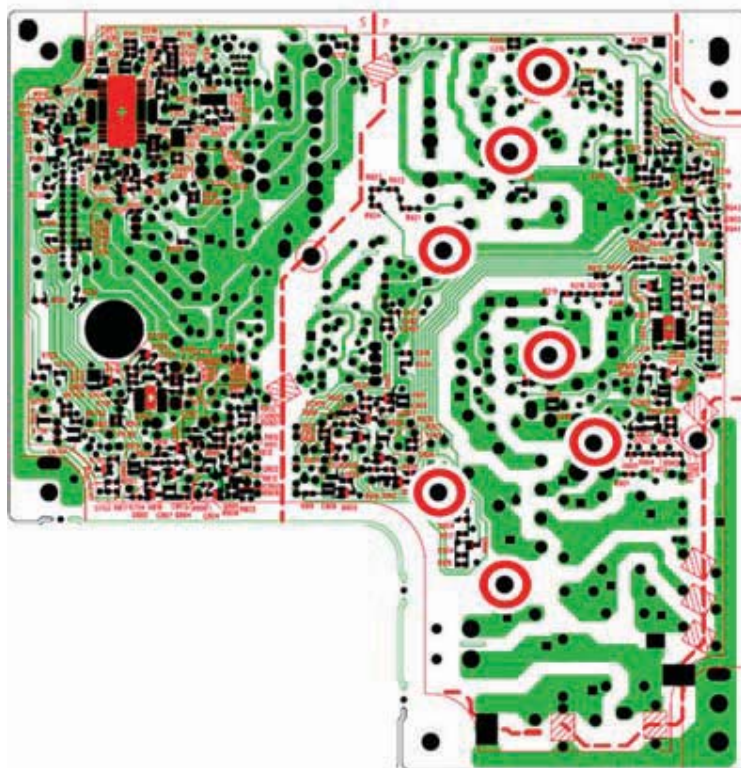
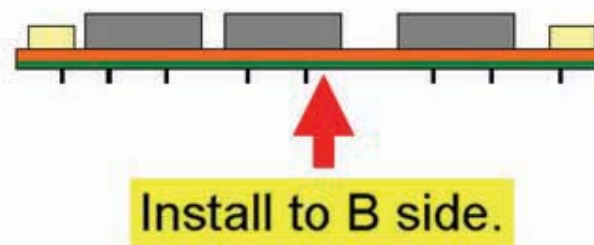
## 1-2. KDL-26EX550/553/555

### 1-2-12. GL3 BOARD



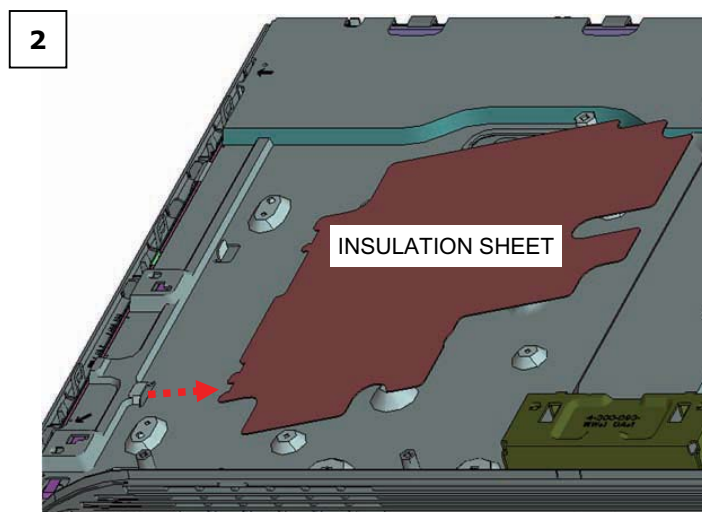
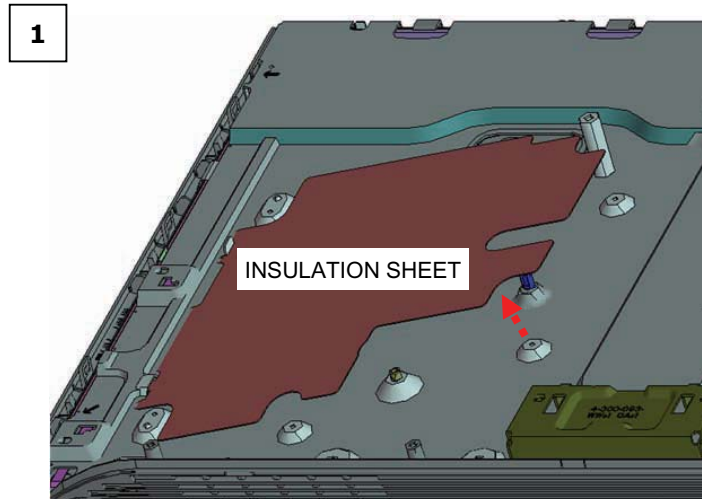
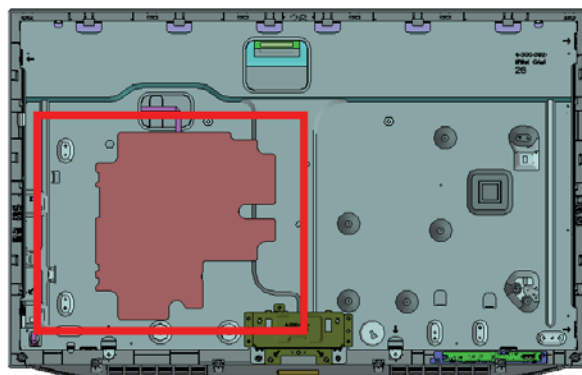
5 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

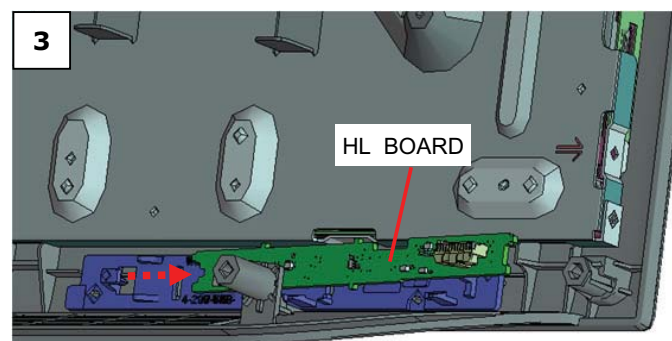
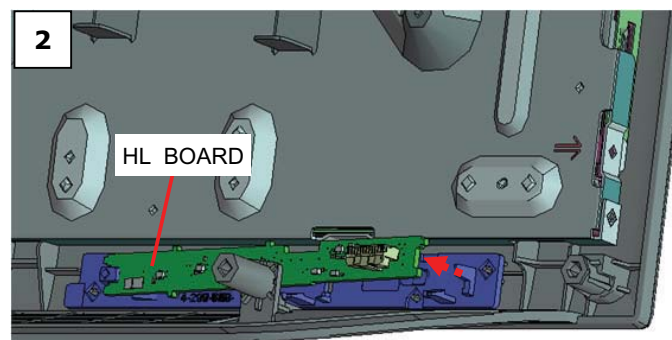
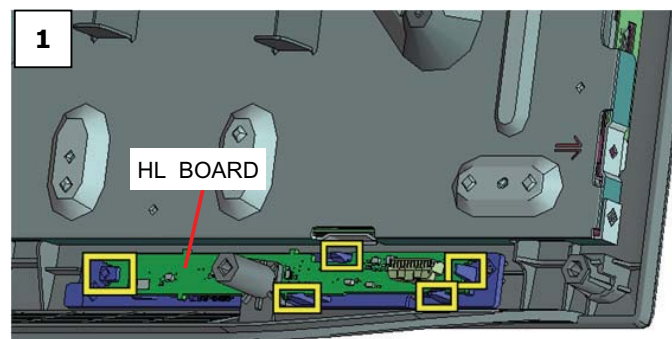
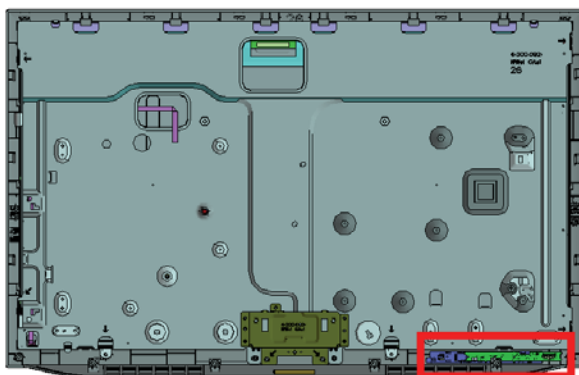


**1-1. KDL-26EX550/553/555****1-2-13. SPACER (B)****SPACER (B)**

Note: Don't install G board without Spacers

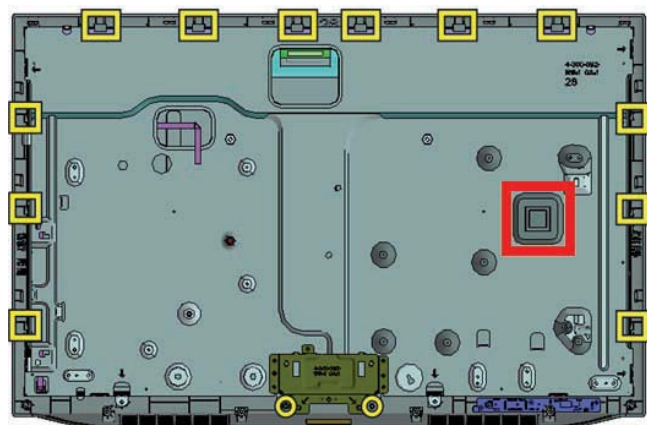


**1-2. KDL-26EX550/553/555****1-2-14. INSULATION SHEET**

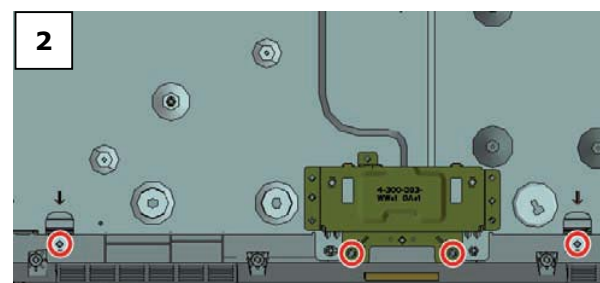
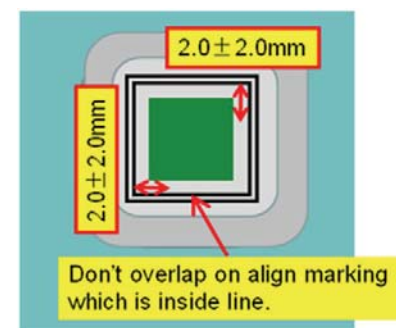
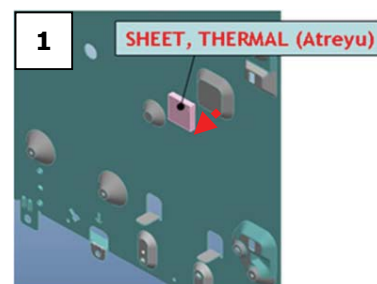
**1-2. KDL-26EX550/553/555****1-2-15. HL BOARD**

## 1-2. KDL-26EX550/553/555

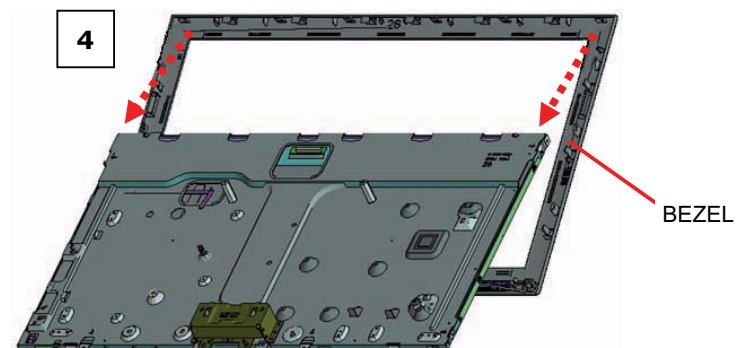
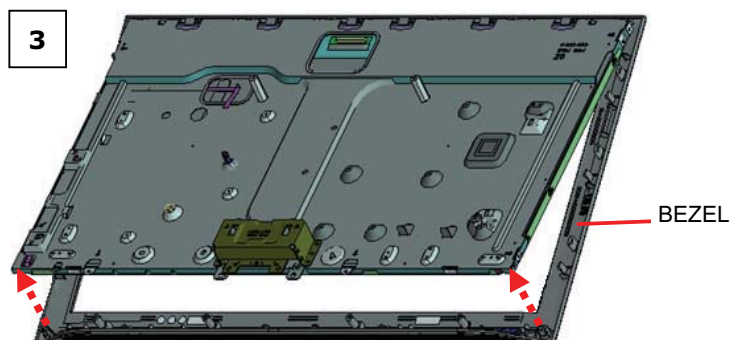
### 1-2-16. THERMAL SHEETとBEZEL



Note: Attention when attach the Thermal Sheet.



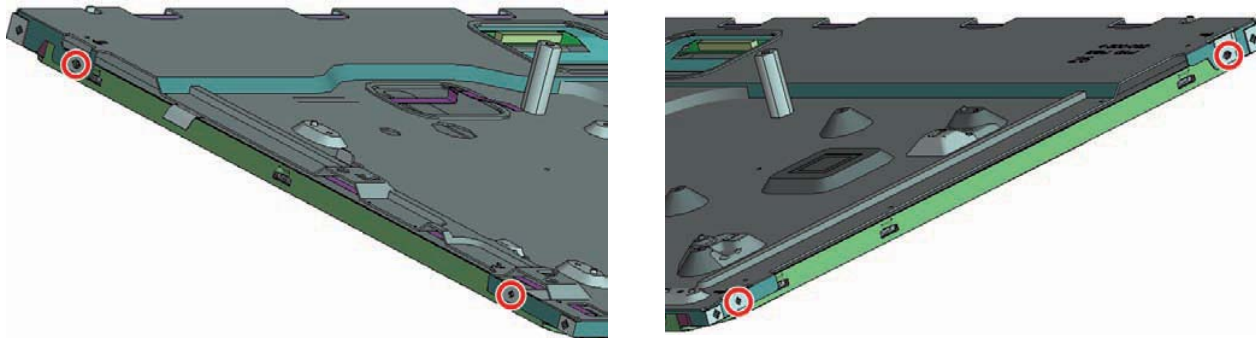
4 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01



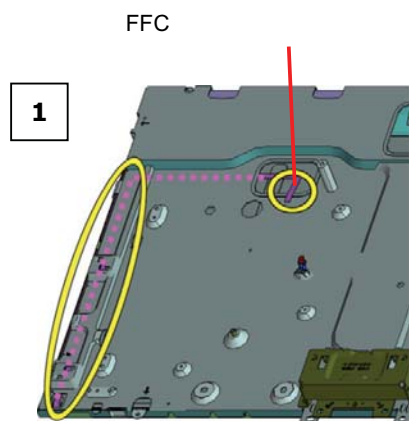


## 1-2. KDL-26EX550/553/555

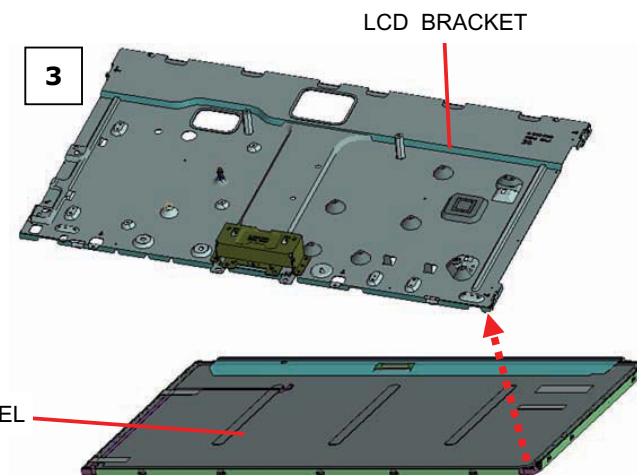
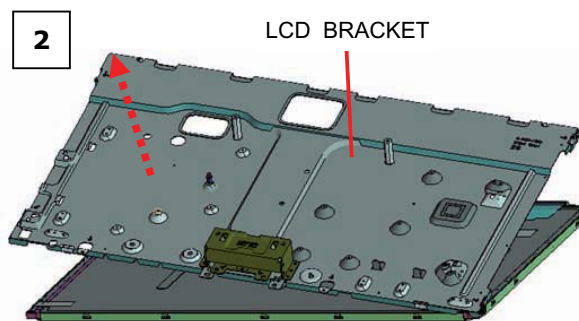
### 1-2-17. LCD BRACKET

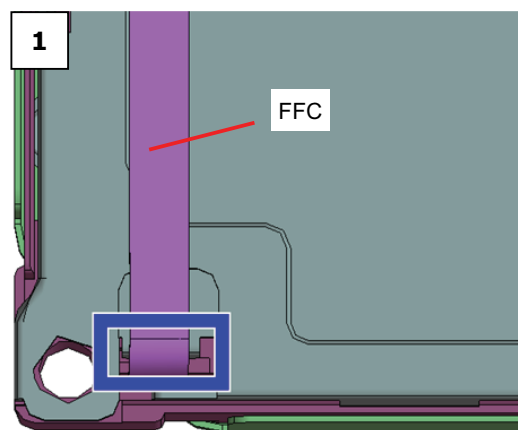


4 Screws (SCREW, +PSW M3X8) P/N: 2-580-592-01

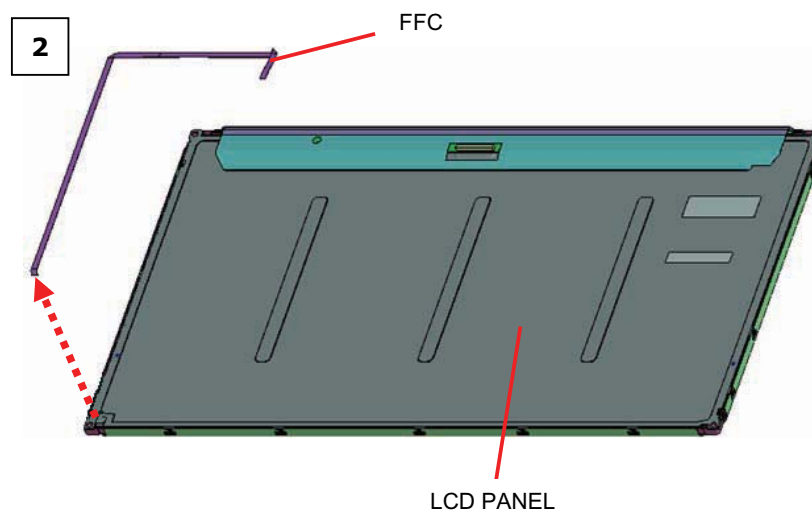


Note: Don't pinch FFC when attaching LCD BRACKET to LCDPANEL.

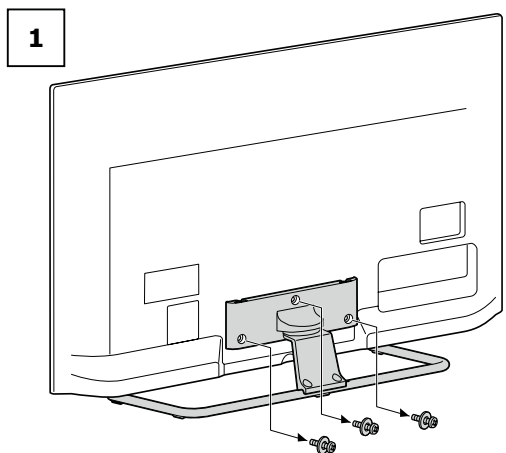


**1-2. KDL-26EX550/553/555****1-2-18. FFC AND LCD PANEL**

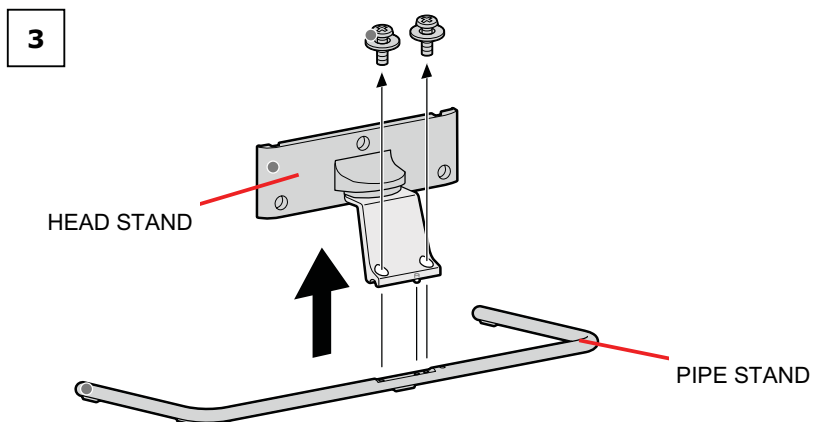
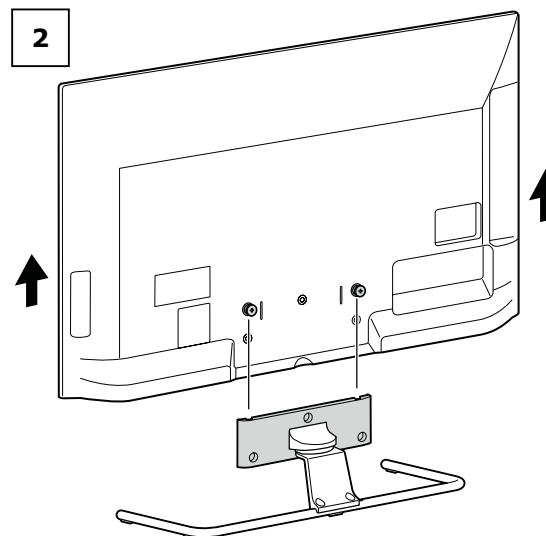
DISCONNECT



LCD PANEL

**1-3. KDL-32EX653****1-3-1. HEAD STAND AND PIPE STAND**

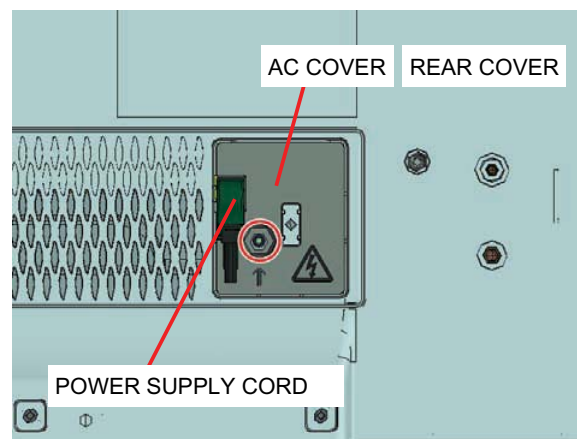
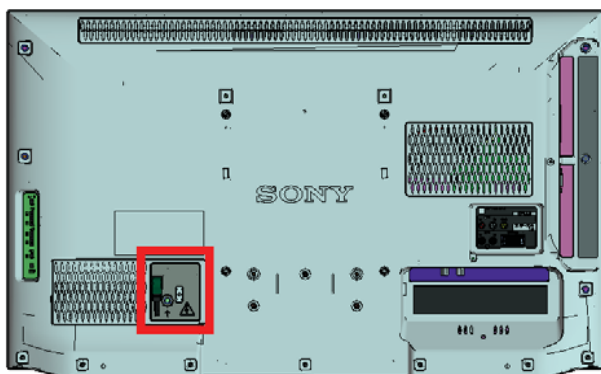
3 Screws (SCREW, +PSW M5X16) P/N: 2-580-608-01



2 Screws (SCREW, +PSW M5X16) 2-580-608-01

### 1-3. KDL-32EX650/653/655

#### 1-3-2. AC COVER AND POWER SUPPLY CORD



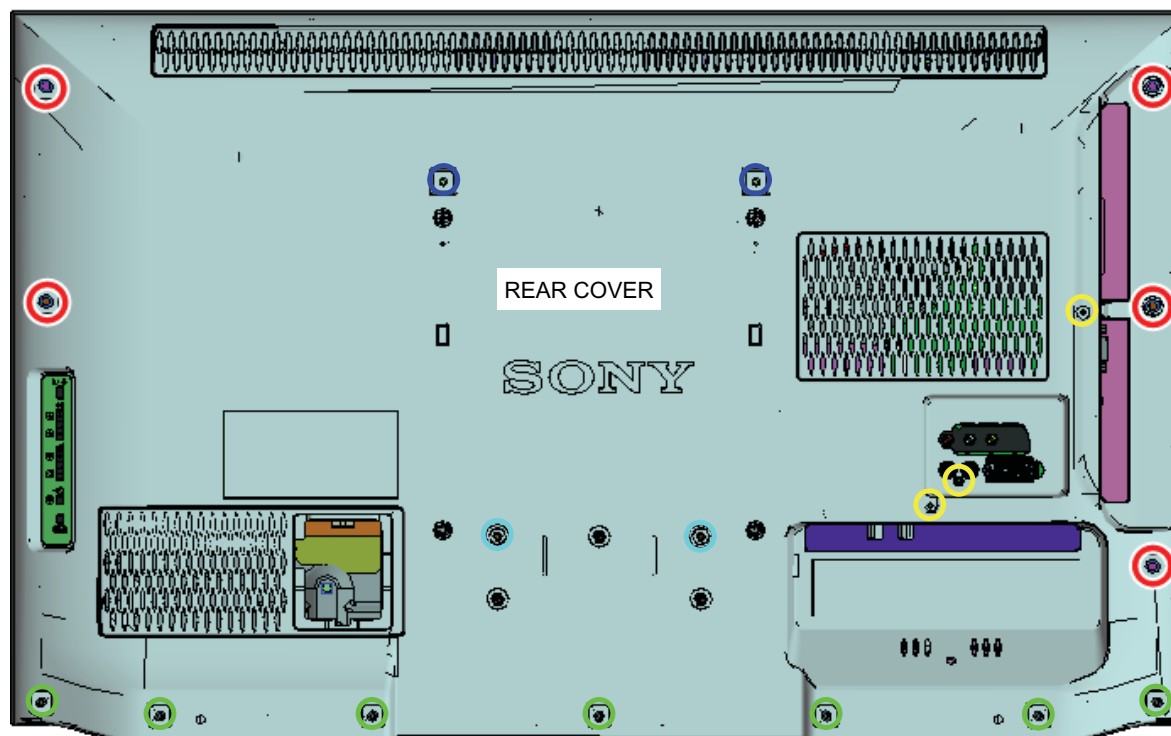
1 Screw (SCREW, +PSW M3X6 W12) P/N: 4-256-393-01

Note: When assemble the AC COVER, hold the AC COVER and tighten a screw.



## 1-3. KDL-32EX650/653/655

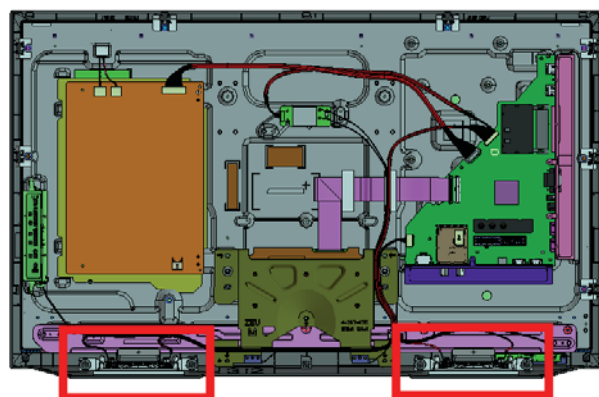
### 1-3-3. REAR COVER



- 5 Screws (SCREW, +PSW M3X6 W12) P/N: 4-256-393-01
- 3 Screws (SCREW +BVTP 3X12 TYPE2 IT-3) P/N:7-685-648-79
- 7 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01
- 2 Screws (SCREW, +PSW M4X10) P/N:4-159-298-01
- 2 Screws (JOINT, SCREW) P/N: 4-400-043-01

### 1-3. KDL-32EX650/653/655

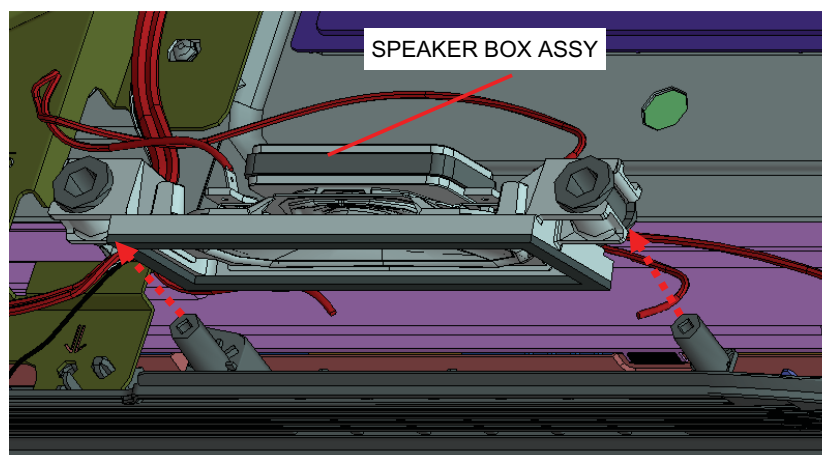
#### 1-3-4. SPEAKER BOX ASSY



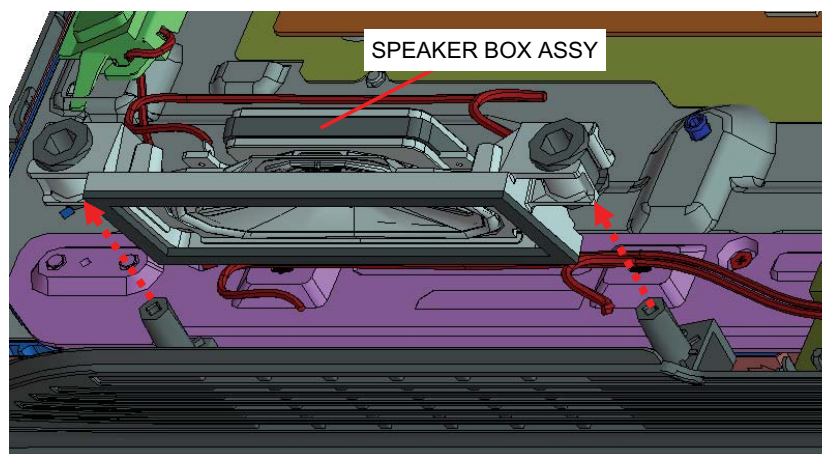
<A>

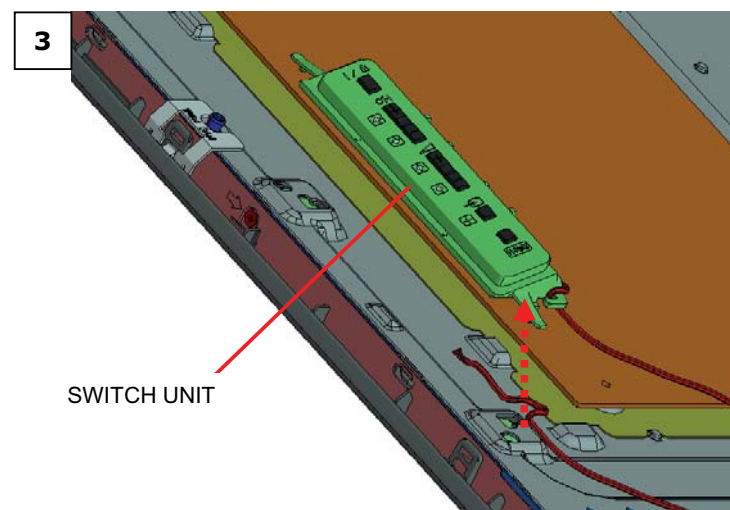
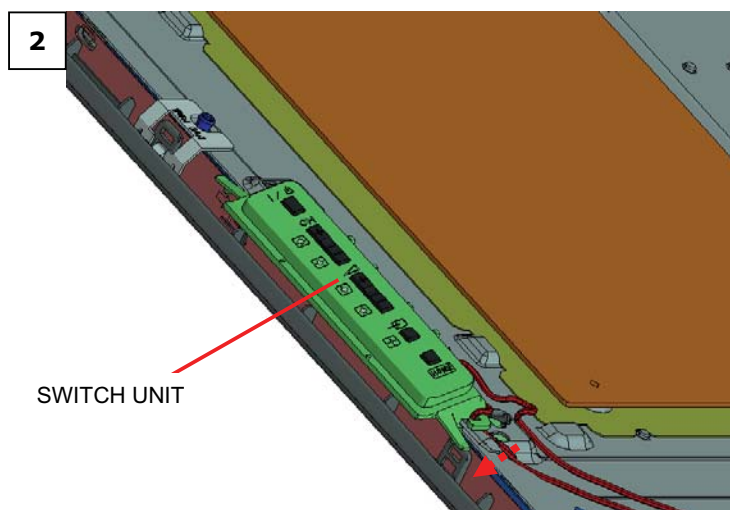
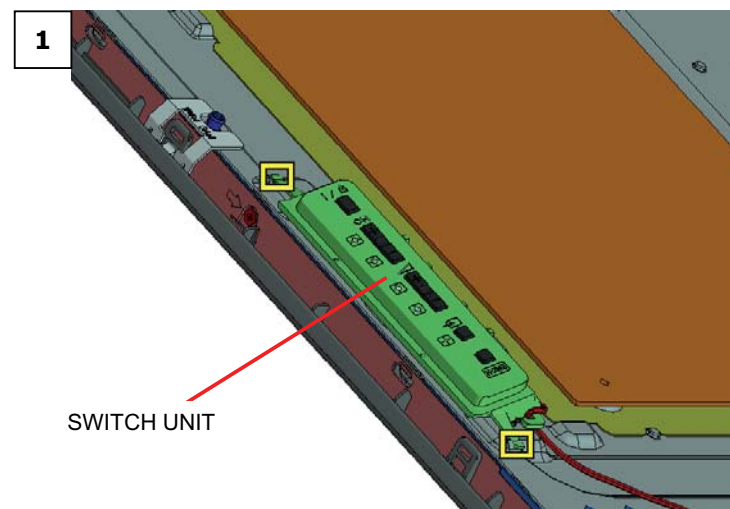
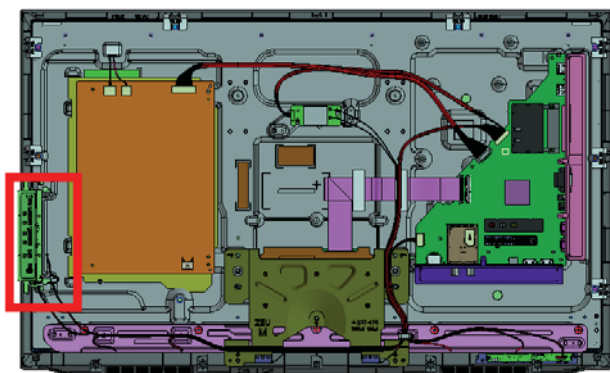
<B>

<A>



<B>

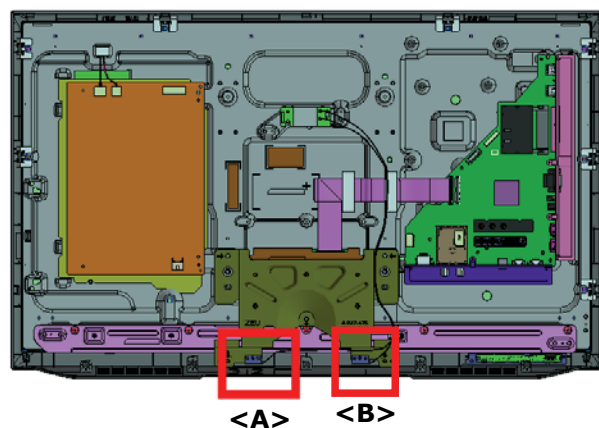


**1-3. KDL-32EX650/653/655****1-3-5. SWITCH UNIT**

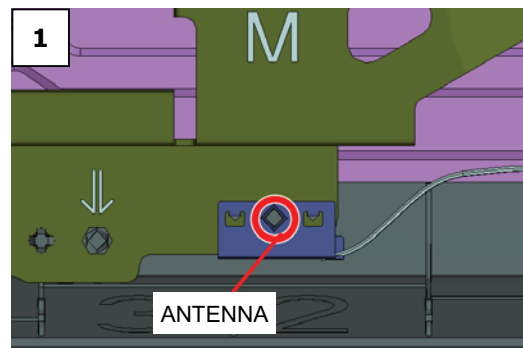


### 1-3. KDL-32EX650/653/655

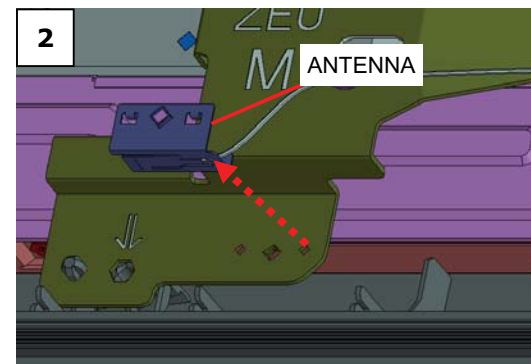
#### 1-3-6. ANTENNA



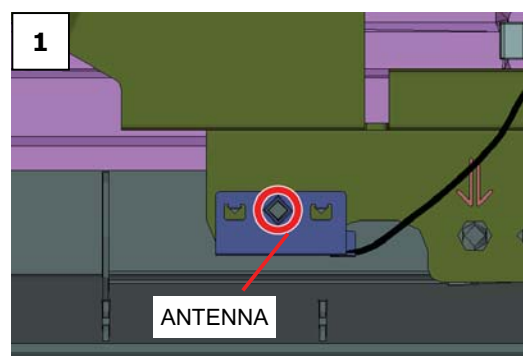
<A>



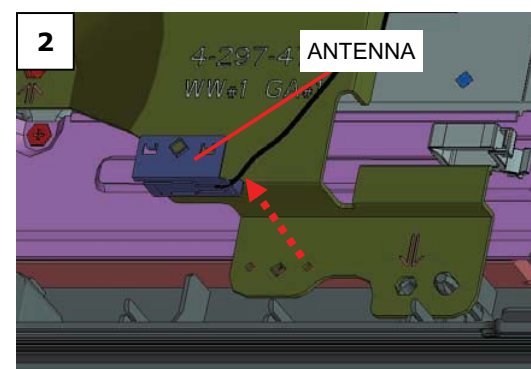
1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



<B>

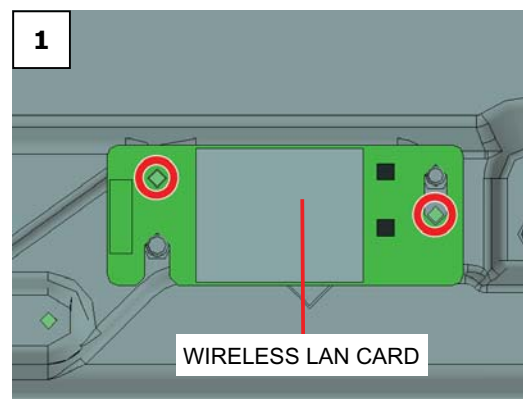
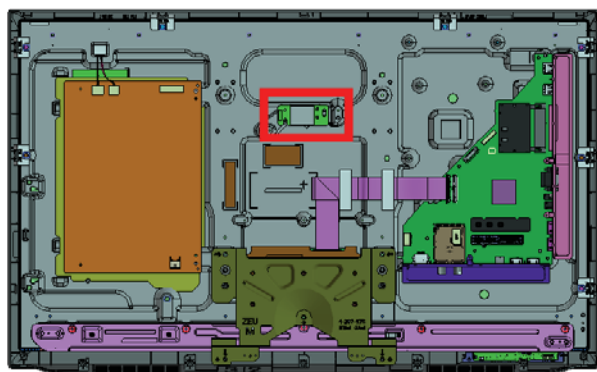


1 Screw (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

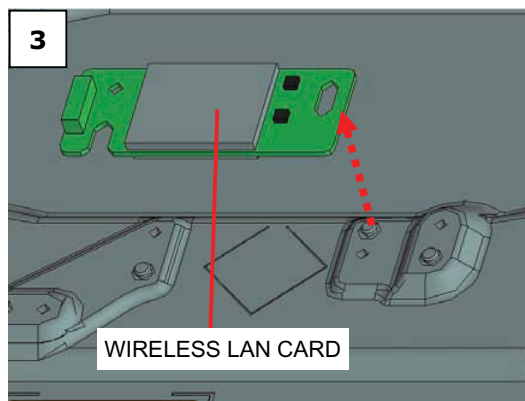
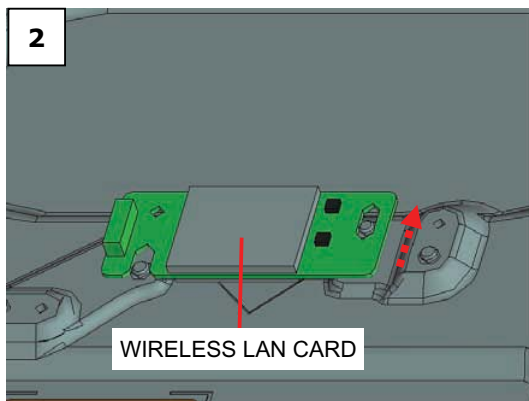


## 1-3. KDL-32EX650/653/655

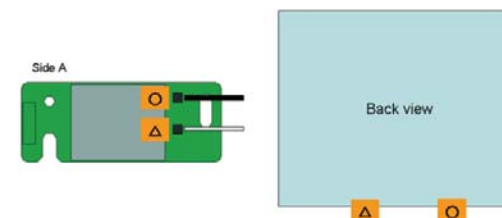
### 1-3-7. WIRELESS LAN CARD



2 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

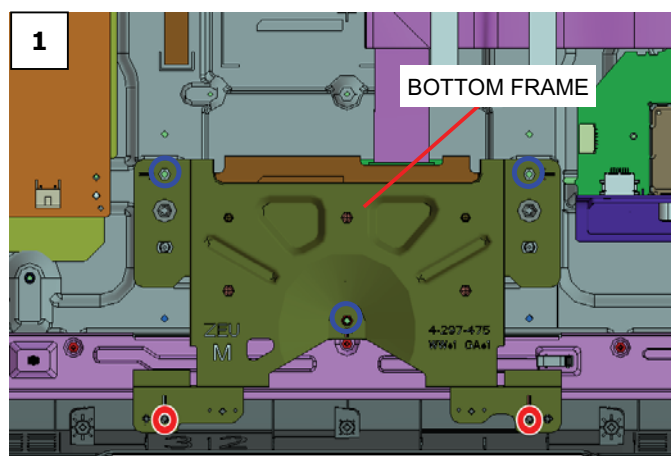
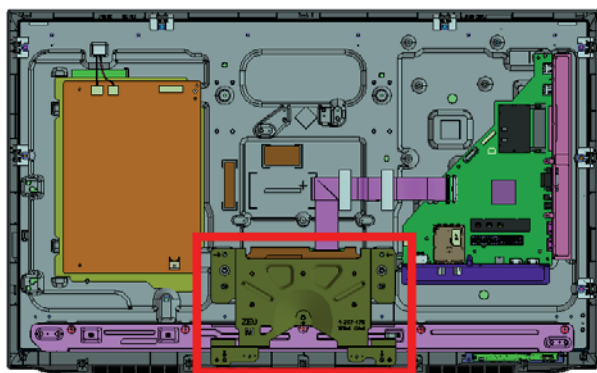


Note: Refer to the connection from the antenna when installing a wireless module.



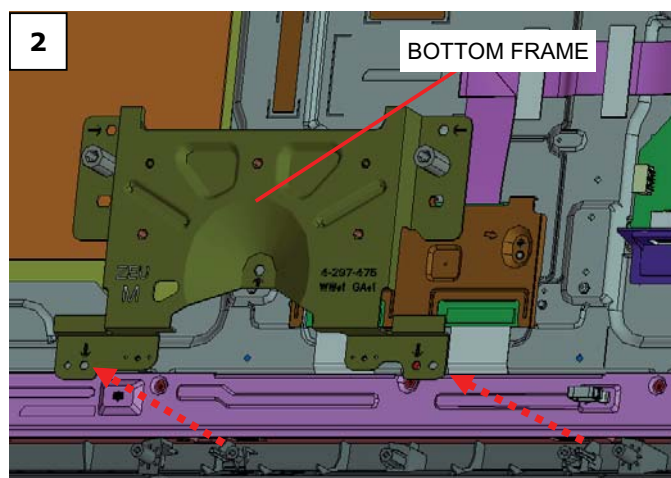
### 1-3. KDL-32EX650/653/655

#### 1-3-8. BOTTOM FRAME



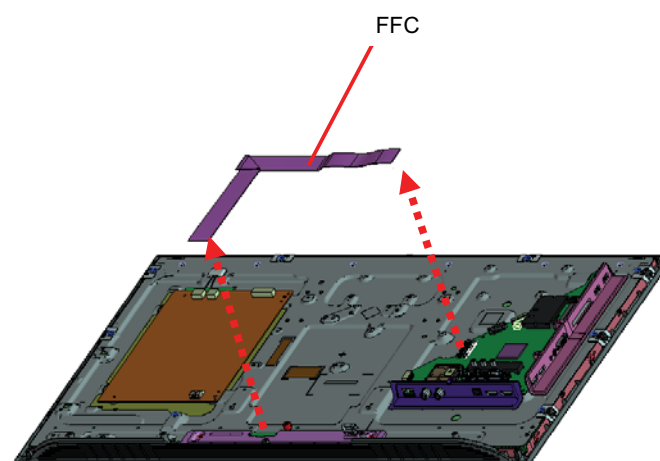
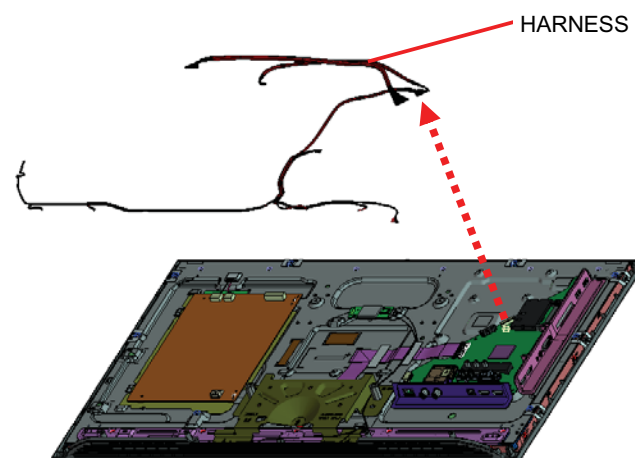
2 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: 2-580-639-01

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



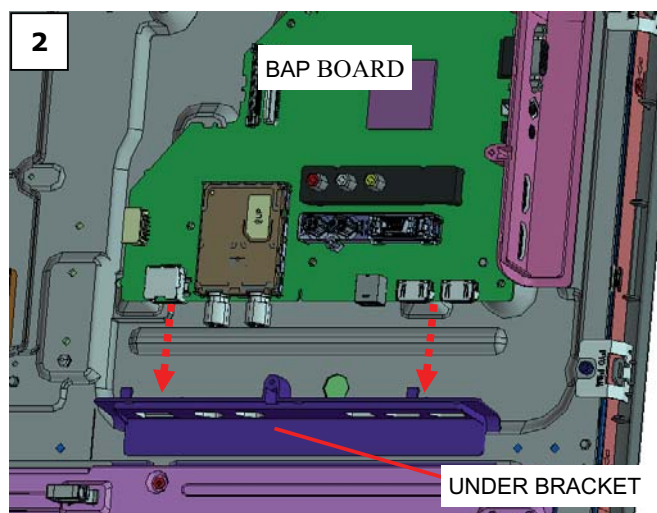
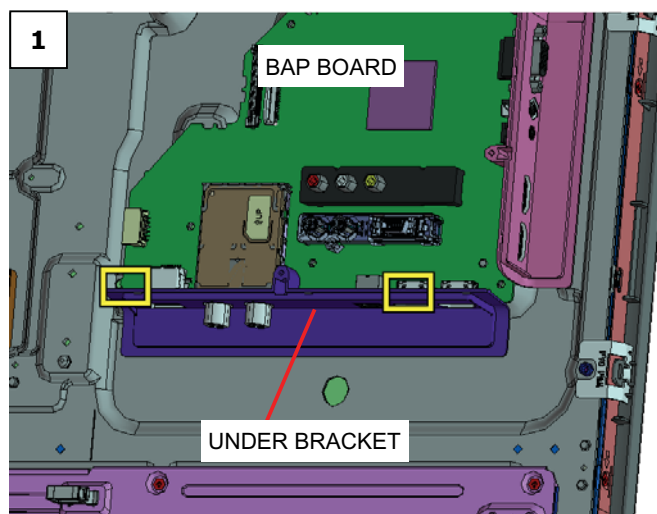
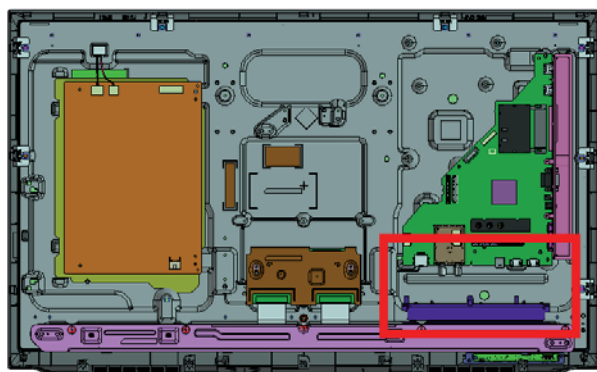
## 1-3. KDL-32EX650/653/655

### 1-3-9. HARNESS AND FFC



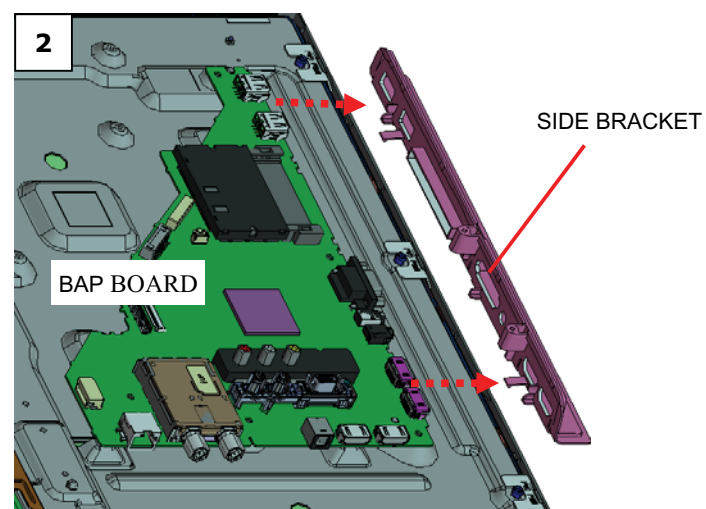
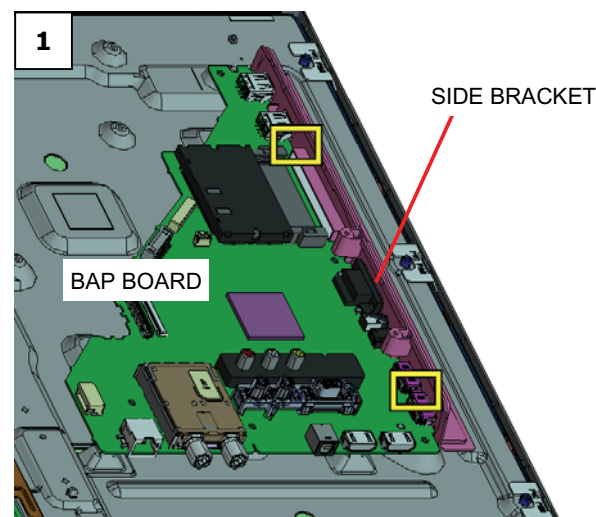
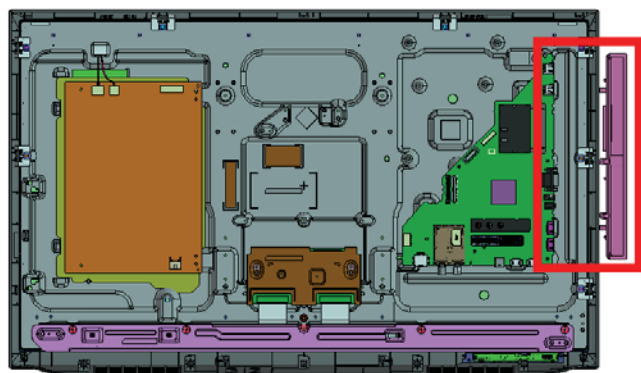
# **1-3. KDL-32EX650/653/655**

## **1-3-10. UNDER BRACKET**



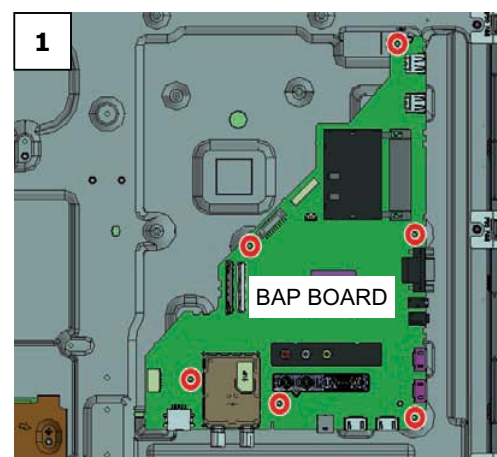
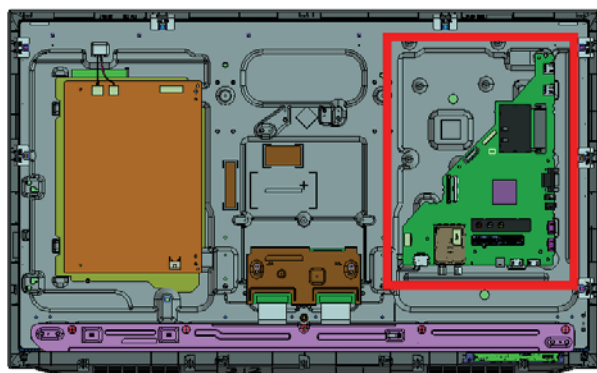
### 1-3. KDL-32EX650/653/655

#### 1-3-11. SIDE BRACKET

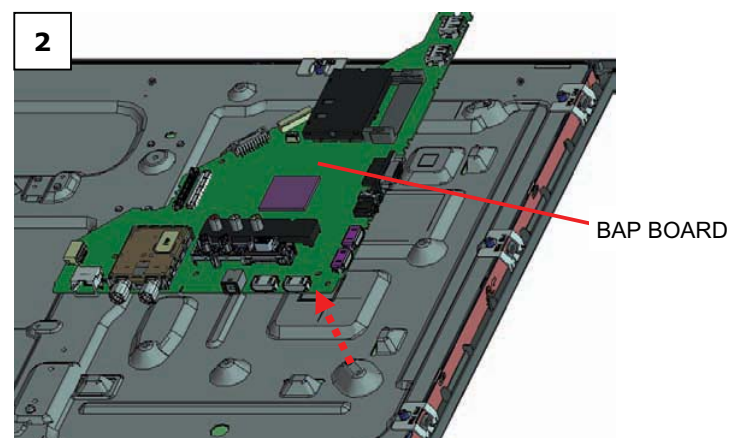


## 1-3. KDL-32EX650/653/655

### 1-3-12. BAP BOARD



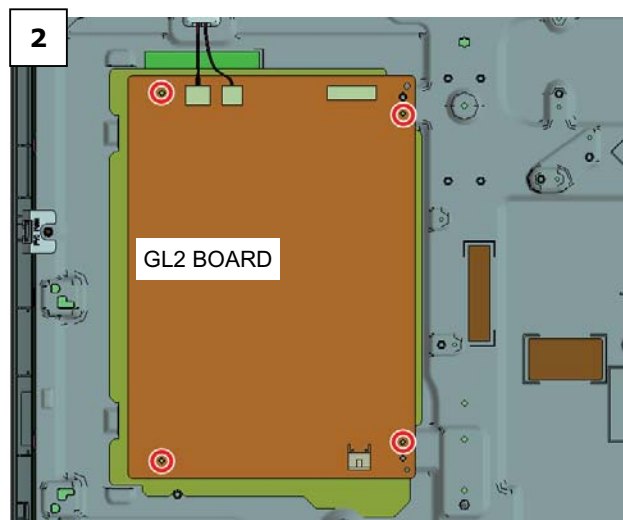
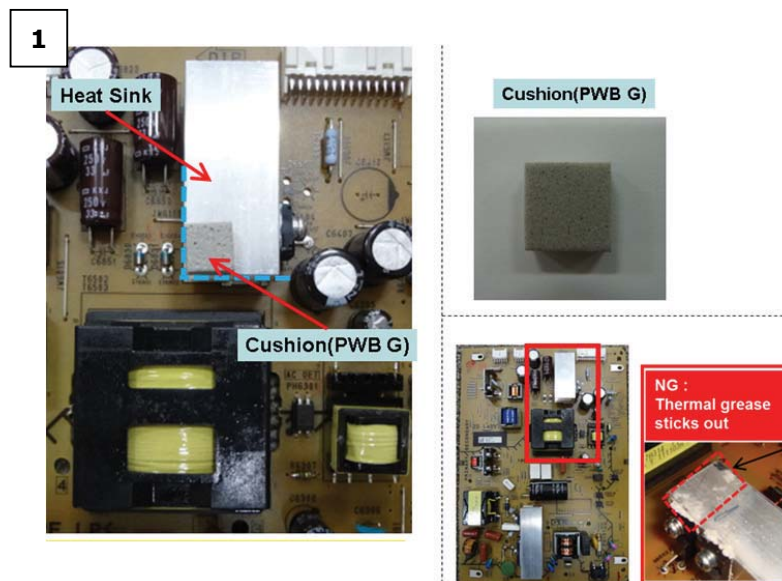
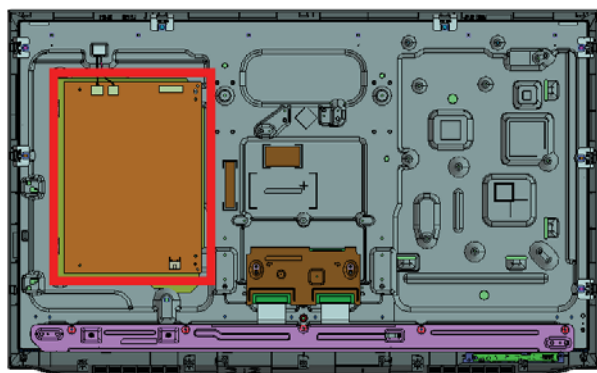
6 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41



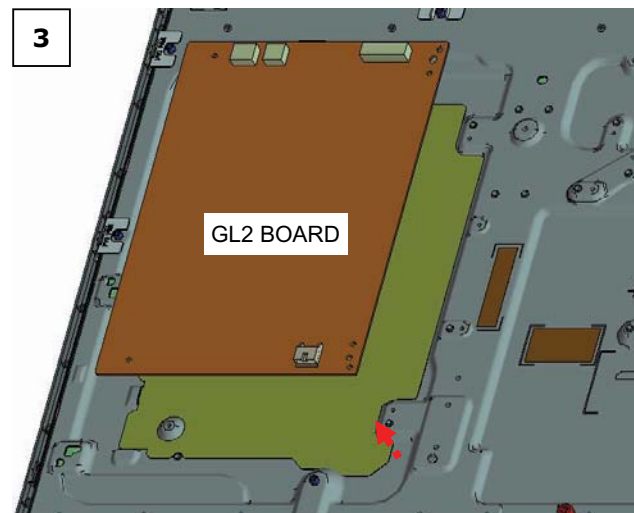


## 1-3. KDL-32EX650/653/655

## 1-3-13. GL2 BOARD

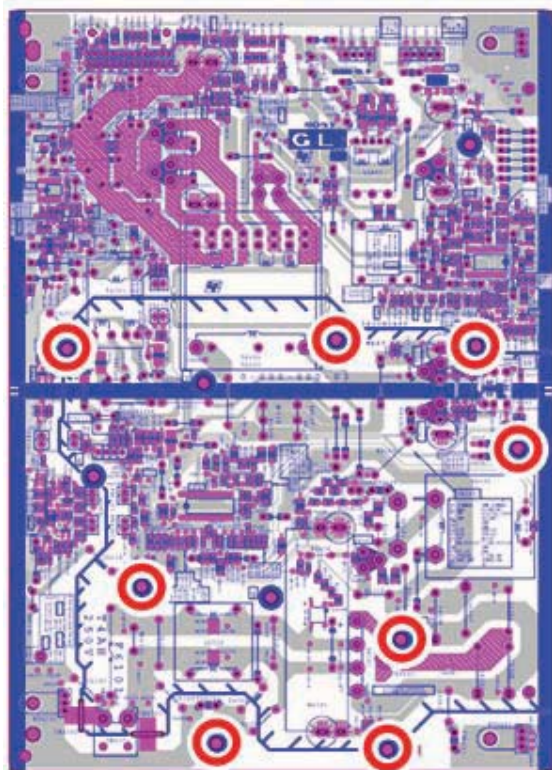


4 Screws (SCREW (+PSW) (M3X6)) P/N: 2-990-421-41

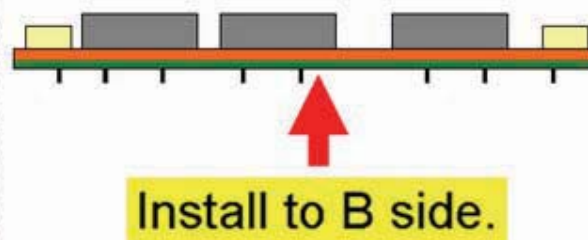


### 1-3. KDL-32EX650/653/655

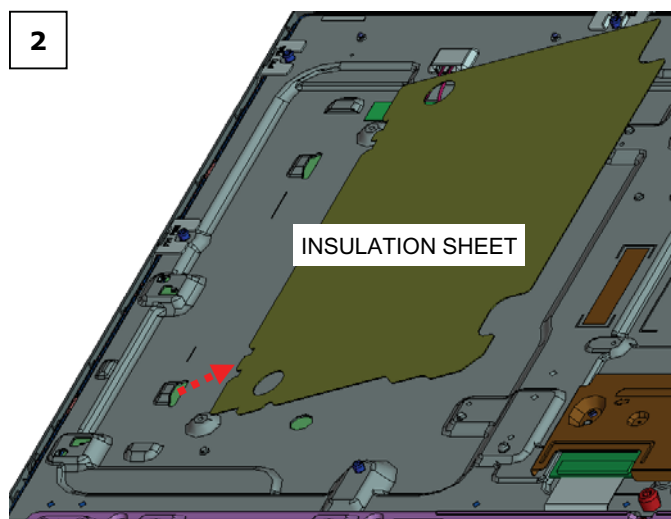
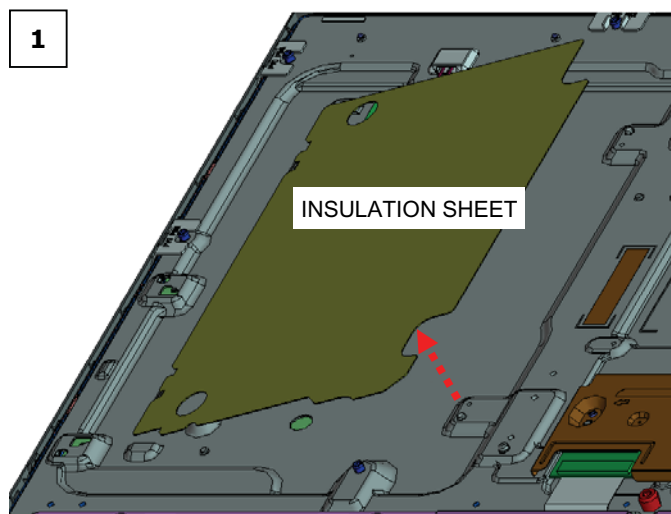
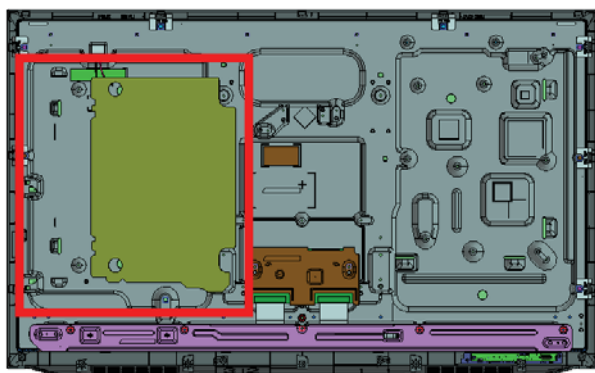
#### 1-3-14. SPACER (B)



SPACER (B)

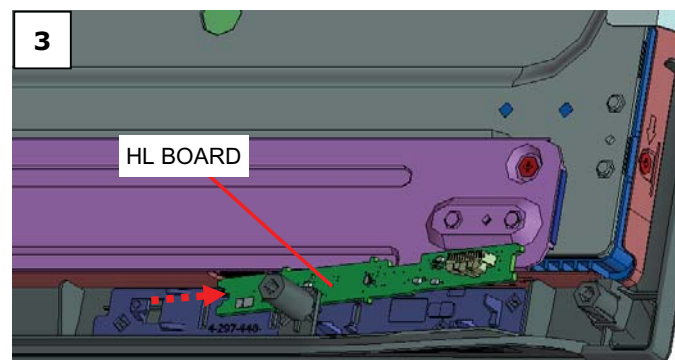
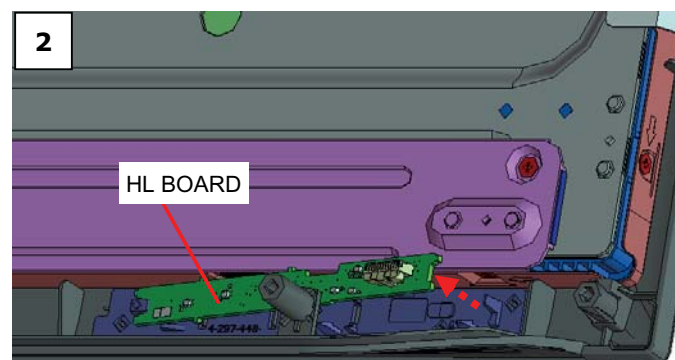
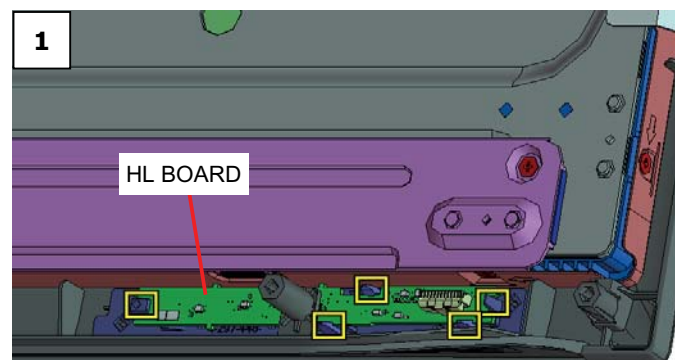
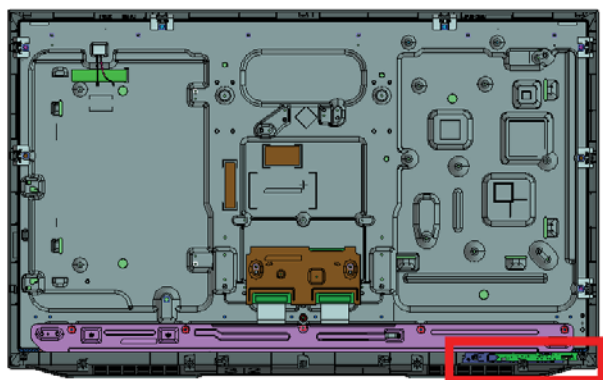


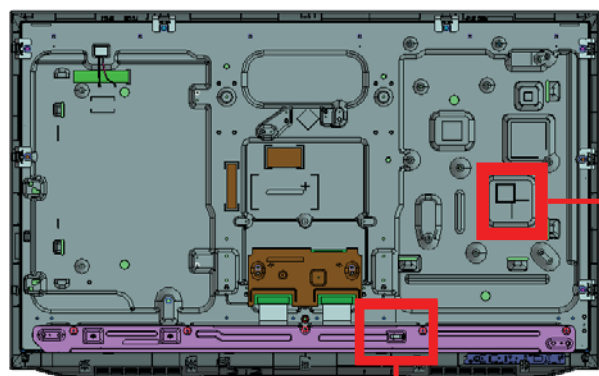
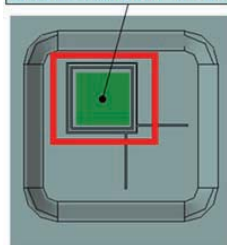
Note: Don't install G board without Spacers

**1-3. KDL-32EX650/653/655****1-3-15. INSULATION SHEET**

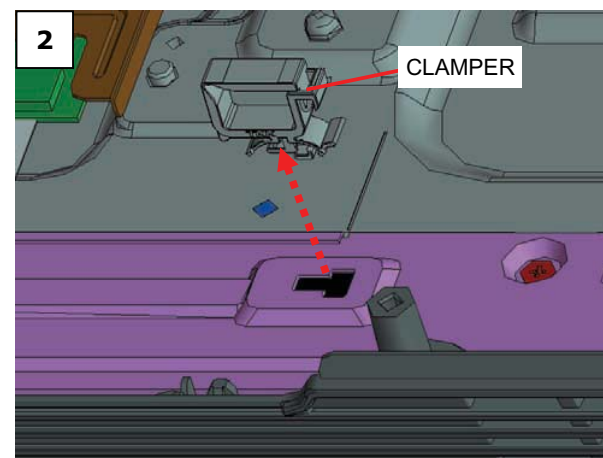
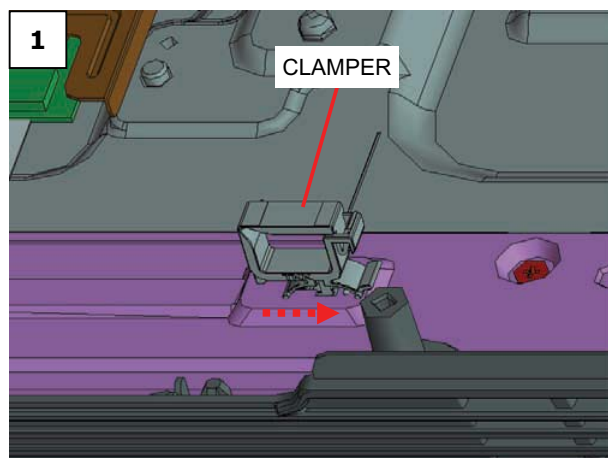
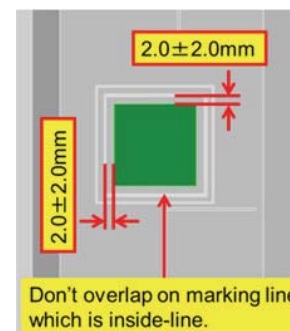
### 1-3. KDL-32EX650/653/655

#### 1-3-16. HL BOARD

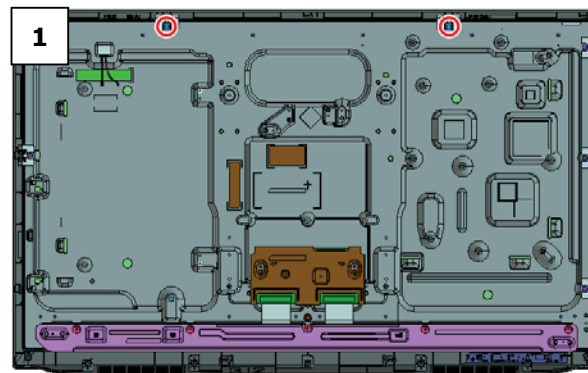
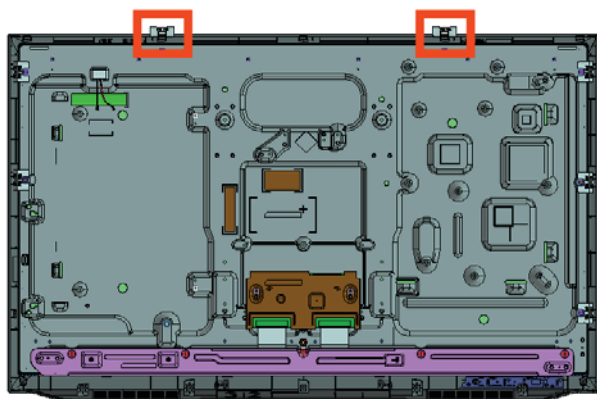


**1-3. KDL-32EX650/653/655****1-3-17. THERMAL SHEET AND CLAMPER****SHEET, THERMAL (Atreyu)**

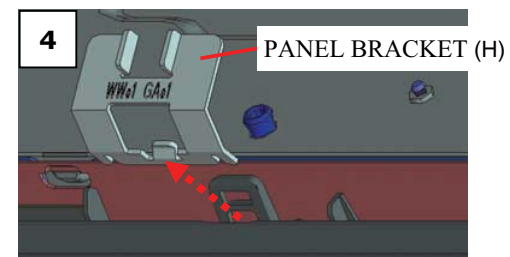
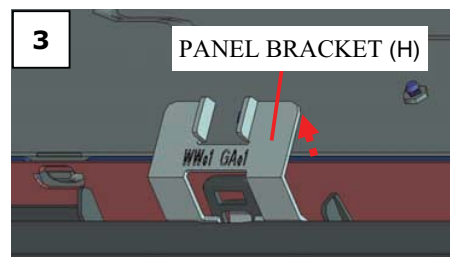
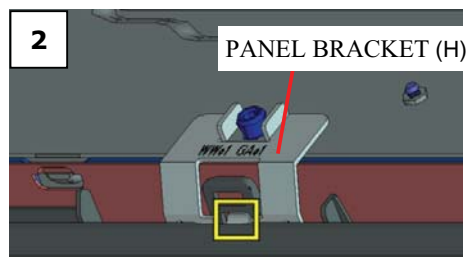
Note: Attention when attach the Thermal Sheet.

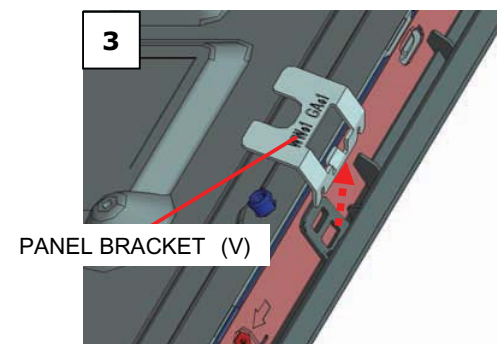
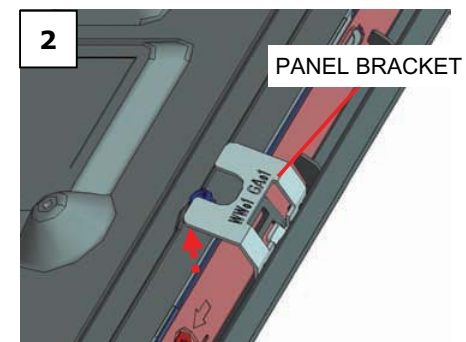
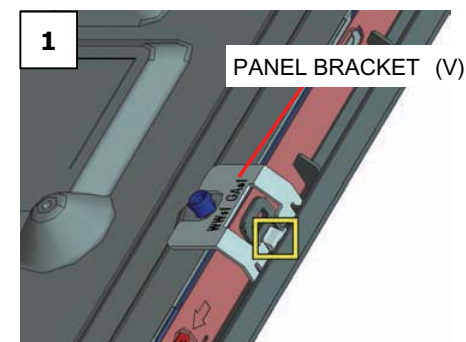
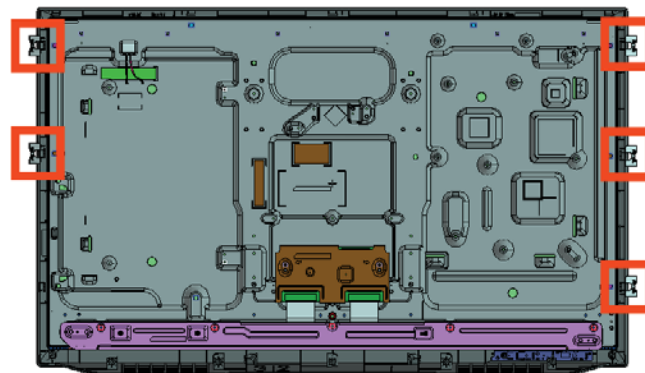
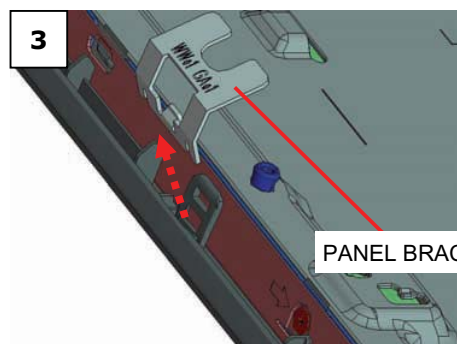
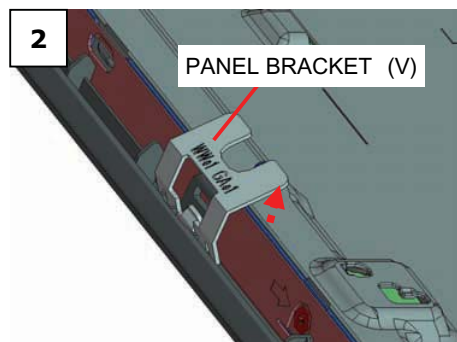
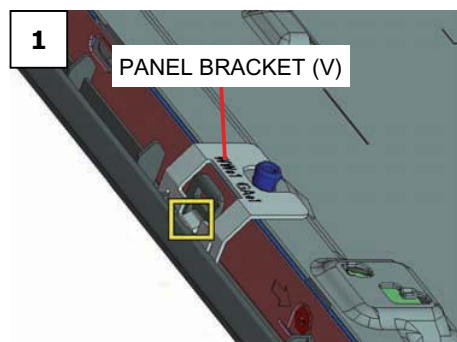




**1-3. KDL-32EX650/653/655****1-3-18. PANEL BRACKET (H)**

2 Screws (SCREW, +PSW M3X6) P/N: 4-256-393-01

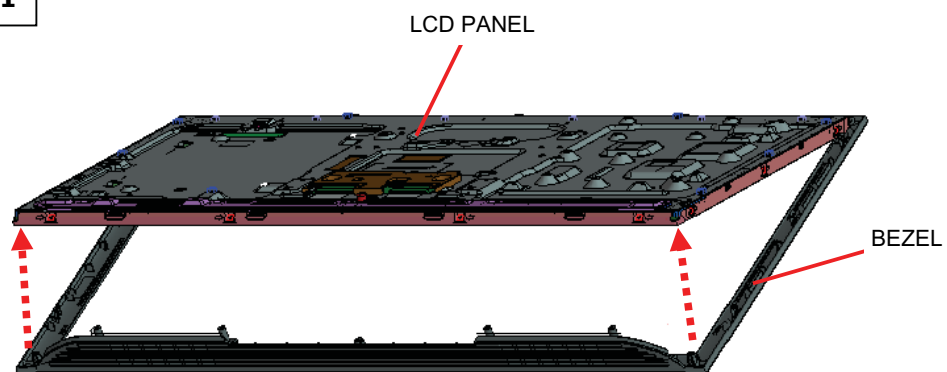
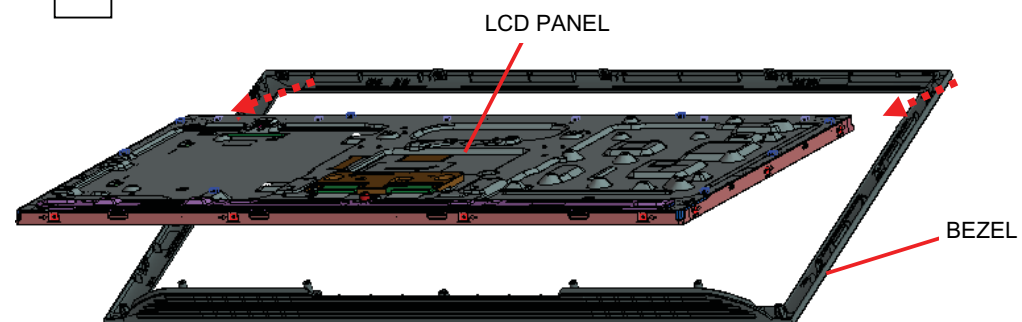


**1-3. KDL-32EX650/653/655****1-3-19. PANEL BRACKET (V)**



### 1-3. KDL-32EX650/653/655

#### 1-3-20. LCD PANEL AND BEZEL

**1****2**

# SEC 2. ADJUSTMENT

## HOW TO ENTER SERVICE MODE

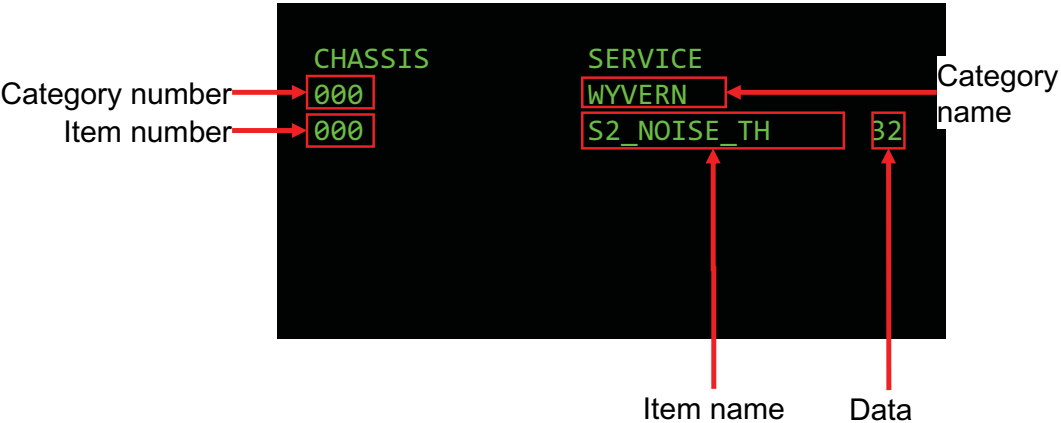
- 1) Turn on the main power switch to place this set in standby mode.
- 2) Press the buttons on the remote commander as follows, and entering service mode.



- 3) Service mode display.
- Note: First of all, when you enter Service Mode, you can see “Digital” service mode.  
Whenever you press “OPTIONS” or “JUMP” on remote, each service mode is changed.  
“Digital” -> “Chassis” -> “VPC”

```
DIGITAL                                SERVICE
001 OP
000 VERS                                ---

<MAIN>                                <EXT>
DM1.301W00AA                          RF:01.05
WF1.003W00AA                          WF:2.0.0.99
DF1.001W00AA                          WF:0B
YM1.010W00AA                          CAM:X.XXX
DB2.105W00AA                          FD:XXXX
(DM1.301W00AA)
DD1.016W00AA
WP0.521W00AA                          <PEM>
MID:1C117081                          PM1.012W00LU
PID:04020000                          PB1.000W00LU
PNL:LTY320AB01                       PL1.011J46LUX
POP:X.XXX                             PD1.011J46LUX
```



4) How to use the remote commander.

Function	The flow of control
Service mode on	<Test>+<TV>/<Display><5><Vol Up><Power>
Service mode off	<Other> / <Power off + on>
Item up / down	<1>/<4>
Category up / down	<2>/<5>
Data up / down	<3>/<6>
Test reset	<8> + <Mute> + <0>
Read data	<9> + <0>
Execute	<10 or 0>
Write data	<Mute> + <0>
Change module	<Jump> / <Option>

5) After entering service mode, then turn off the power switch.

## CHANGE DATA

Note: “Digital” service mode don’t have to Save. (except “002 MODEL” and “005 CHPRSET” category)

1) Change Data of “**Digital**” service mode. (except “003 DIG\_SRV\_MODE” category)

- Press “2 / 5” on remote to select (up / down) category.
- Press “1 / 4” on remote to select (up / down) Item.
- Press “3 / 6” on remote change (up / down) data.

```
DIGITAL          SERVICE
004 TUNER
000 !A_NOSIG_DET 001
```

2) Change Data of “**Digital**” service mode. ( “003 DIG\_SRV\_MODE” category)

“003 DIG\_SRV\_MODE” is one category of “Digital” service mode.

Please note because this operation is special.

- Press “2 / 5” on remote to select “003 DIG\_SRV\_MODE”.
- Press “1 / 4” on remote to select (up / down) Item.
- Press “0 / 10” on remote to select item.
- Press number key “1”~”9” directly. “\*” stamp move.
- Press “12 / enter / select” to decide and advance next step. Press “return”, when returning on the previous page.

```
DIGITAL          SERVICE
003 DIG_SRV_MODE
000 TEST_PATTERN ---
```



```
DIGITAL(DIG_SRV_MODE) SERVICE
TEST_PATTERN

*1 Video
 2 Audio
```

**SAVE CHANGING DATA**

1) Write data for “Chassis” or “VPC” service mode

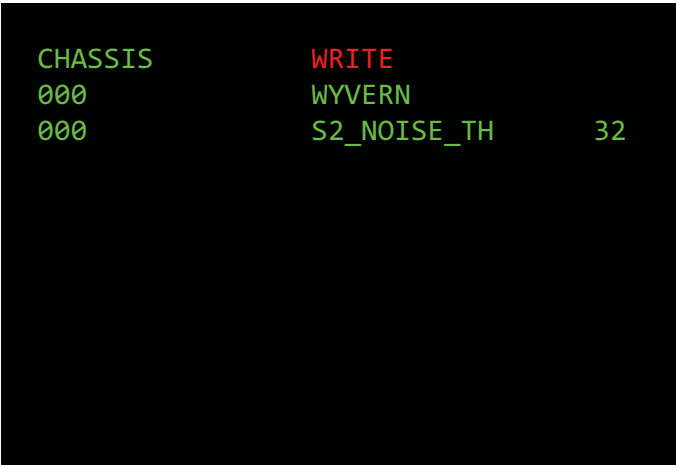
a. Press “Mute” on remote.

It shows green “SERVICE” changes to green “WRITE”.

b. Press “0” or “enter” on remote. Green “WRITE” changes to red “WRITE”. It indicate writing is processing.

c. After a while, red “WRITE” changes to green “SERVICE”. Writing process is done at this point.

2) TV reboot is necessary for applying data change.



CHASSIS WRITE  
000 WYVERN  
000 S2\_NOISE\_TH 32

## WHITE BALANCE ADJUSTMENT

Note: Please execute this adjustment if necessary.

Change Data of “VPC” service mode. (“006 WB” category)

- Press “1” or “4” on remote to select WB adjustment menu.
- Change data by pressing “3” or “6”. Each range of these items is 0~255.
- Press “mute” +”0” on remote to save the data.  
“SERVICE” comment is changed to “WRITE”, indicating writing process.
- After a while, “WRITE” comment returns to “SERVICE”, which means writing process is done.

```
VPC      SERVICE
006      WB
000      R_DRV      128
```

```
VPC      SERVICE
006      WB
003      R_BKG      128
```

```
VPC      SERVICE
006      WB
001      G_DRV      128
```

```
VPC      SERVICE
006      WB
004      G_BKG      128
```

```
VPC      SERVICE
006      WB
002      B_DRV      128
```

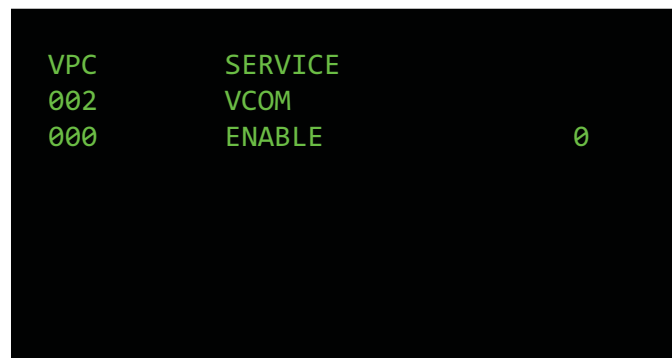
```
VPC      SERVICE
006      WB
005      B_BKG      128
```

## VCOM ADJUSTMENT

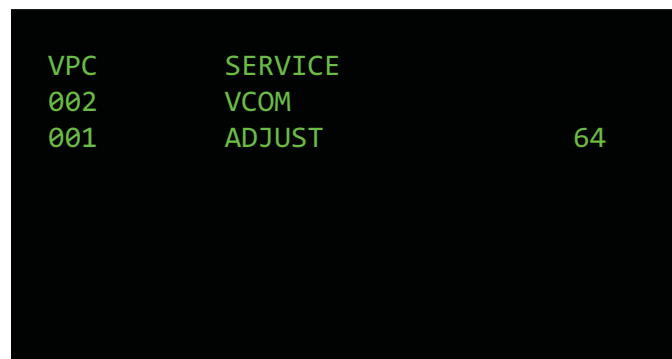
Note: Please execute this adjustment if necessary.

### 1) Change Data of “VPC” service mode.

- a. Select “002 VCOM” category by pressing “2 / 5” on remote.
- b. Select “000 ENABLE” item by pressing “1 / 4” on remote.
- c. Change ENABLE from “0” to “1” to enable VCOM adjustment.



- d. Select “002 VCOM” category by pressing “2 / 5” on remote.
- e. Select “001 ADJUST” item by pressing “1 / 4” on remote.
- f. Change data by pressing “3 / 6” on remote controller.
- g. Finish the adjustment when the picture seems OK.



### Attention:

-Every time the data changed by pressing “3 / 6” Key, the VCOM pattern will display for 5s and in the mean time OSD will disappear, After the 5s period, VCOM pattern will disappear and OSD will display again.

The 5s time can be adjust by data change.

-If pressing the “3/6” key again during the 5s period, the VCOM pattern display time will be extended to another 5s.



## SET TO SHIPPING CONDITION

How to do shipping condition.

- a. Move to **“Digital”** service mode.

Press “8” on remote.

It shows green **“SERVICE”** changes to green **“RST-”**.

Press “mute” on remote.

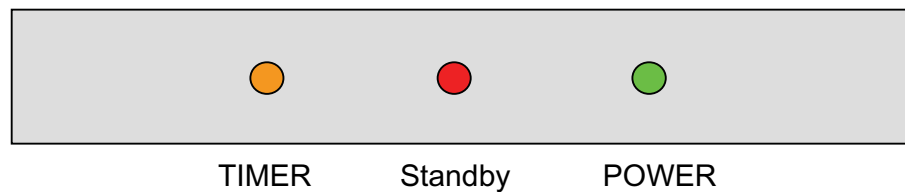
Added green **“EXE”** after green **“RST-”**.

- d. Press “0” on remote. Green **“EXE-RST”** changes to red **“EXE-RST”**. It indicate writing is processing.

After a while, red **“EXE-RST”** changes to green **“SERVICE”**.

And all LED lights.

Writing process is done at this point.



<Another way>

You can set to shipping condition w/o entering Service Mode.

-> “Cursor Up” on remote + “Power Key” on Front panel.

# SEC 3. TROUBLE SHOOTING

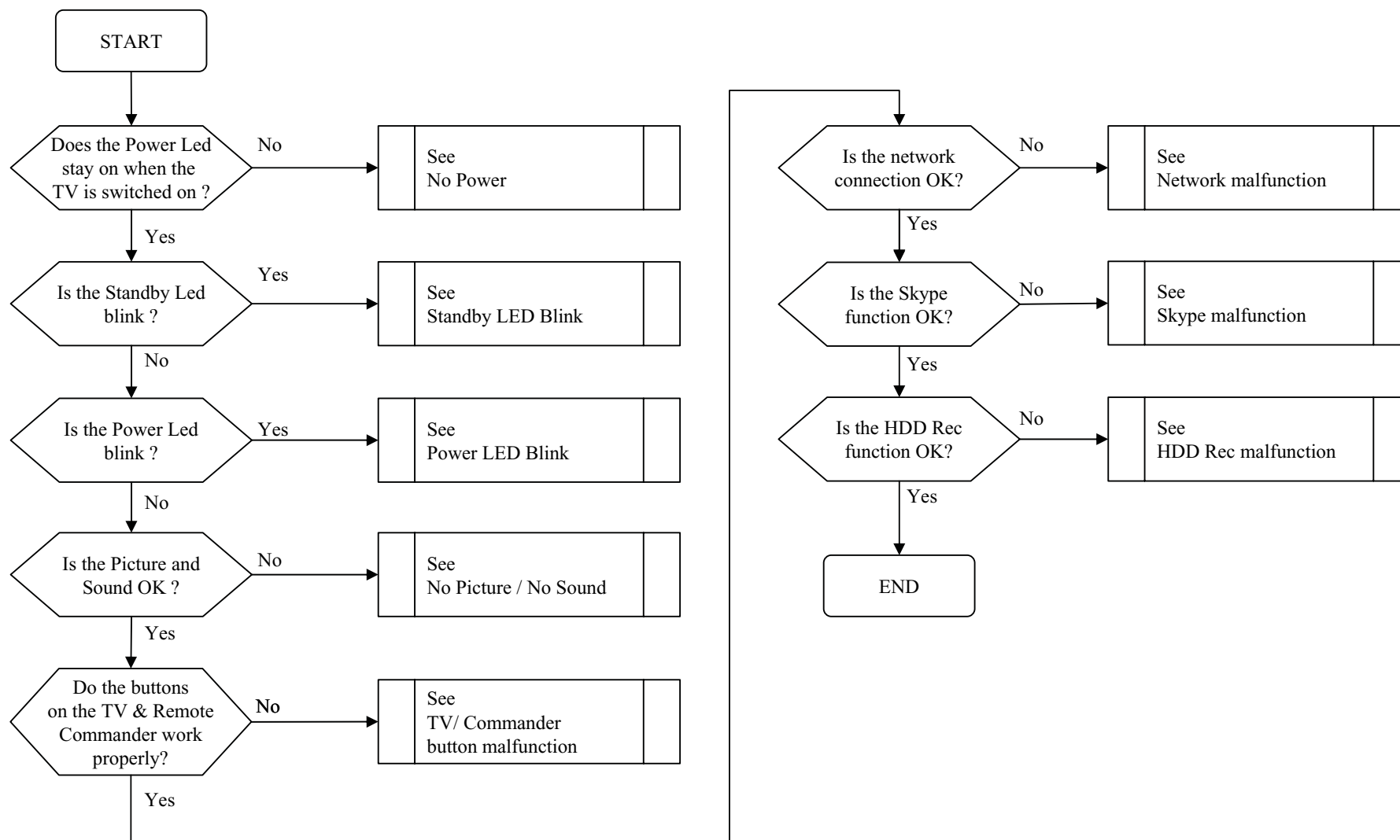
## 3-1. TRIAGE CHART

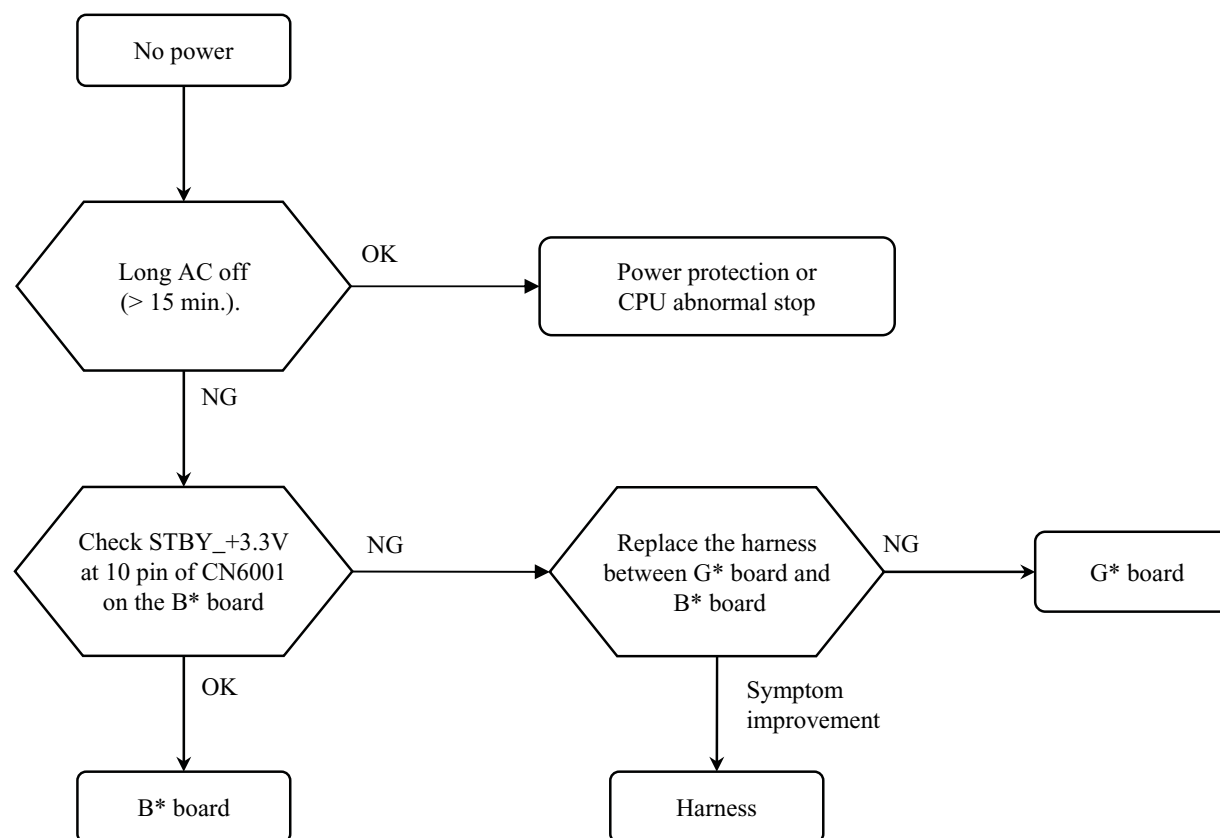
Note: B board and Power board are different in name every inch. Therefore this section displays difference point in "\*".

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences								Green LED Blinking	No Power	Video - missing or distorted			Remote	Network	Audio	Skype
	2	3	4	5	6	7	8	10	Green LED non-stop Blinking	No Green Power LED (Dead Set)	Stationary colored lines or dots	No video one of Inputs	No video all Inputs	No Remote	Wireless can't connect	No Audio	Skype Can't Work
B* BOARD	▲	●		▲	▲	●	●		▲	▲	▲	●	●	▲	▲	●	▲
G* BOARD	●	▲		▲	●				▲	●						▲	
HL BOARD				▲				●						●			
SPEAKER		▲														●	
Skype MODULE																	●
LVDS CABLE				▲	▲						▲		▲				▲
T-CON			▲	●	▲			▲	▲		▲		▲				
LCD PANEL			●	●	●	▲			●		●		▲				
Problem	POWER	POWER AUDIO	POWER	PANEL (TCON)	PANEL (INVERTER)	TEMP	Software	EMITTER									

- : doubtful part  
 ▲ : Few possibility

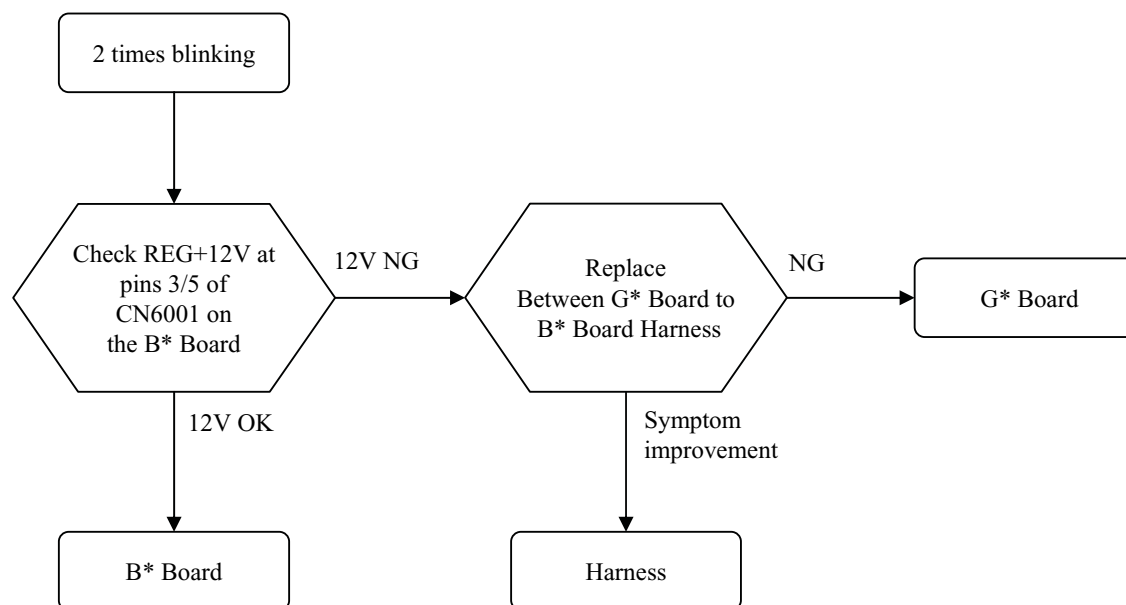
## 3-2. FLOW CHART



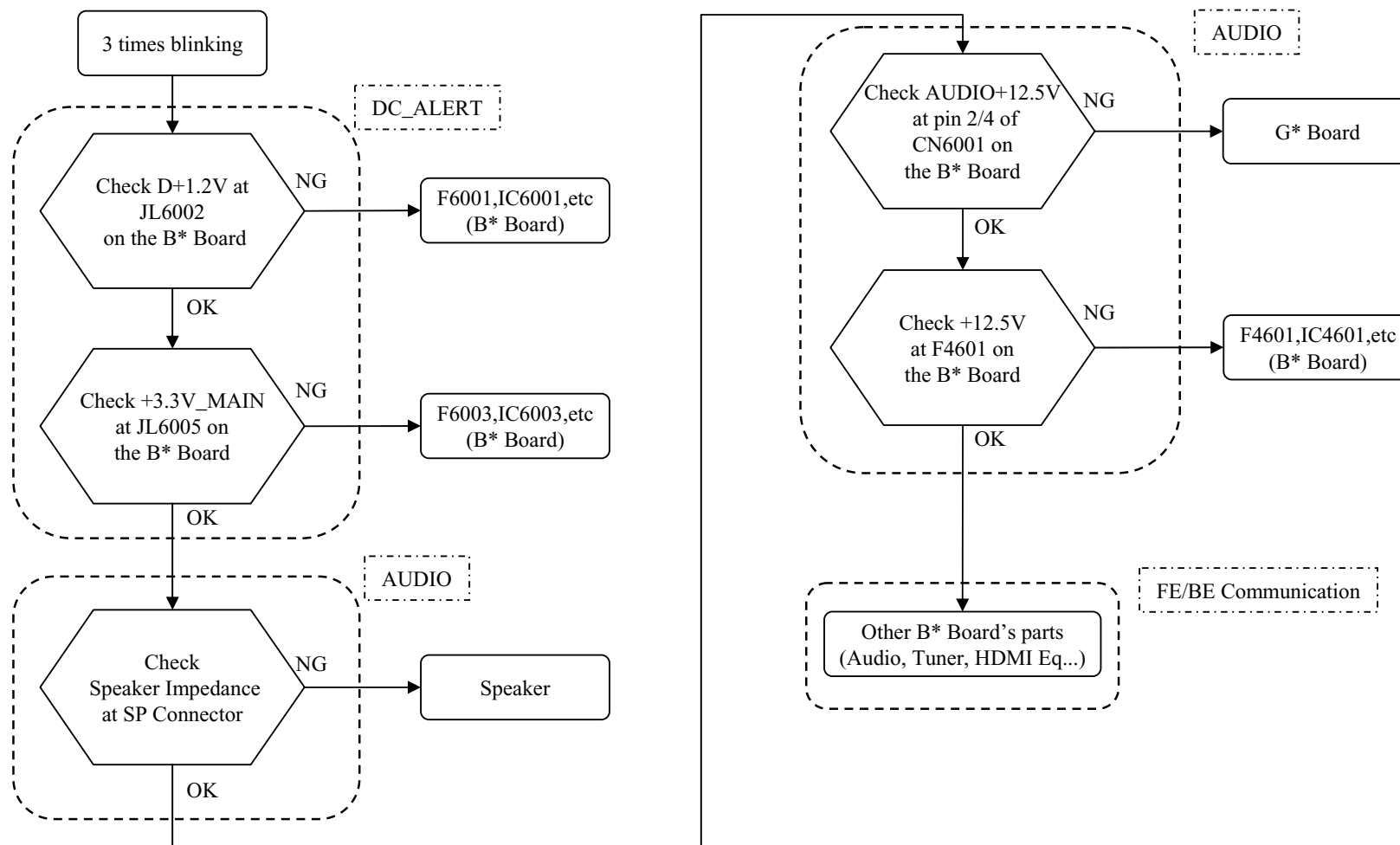
**3-3. NO POWER**

### 3-4. STANDBY LED BLINK

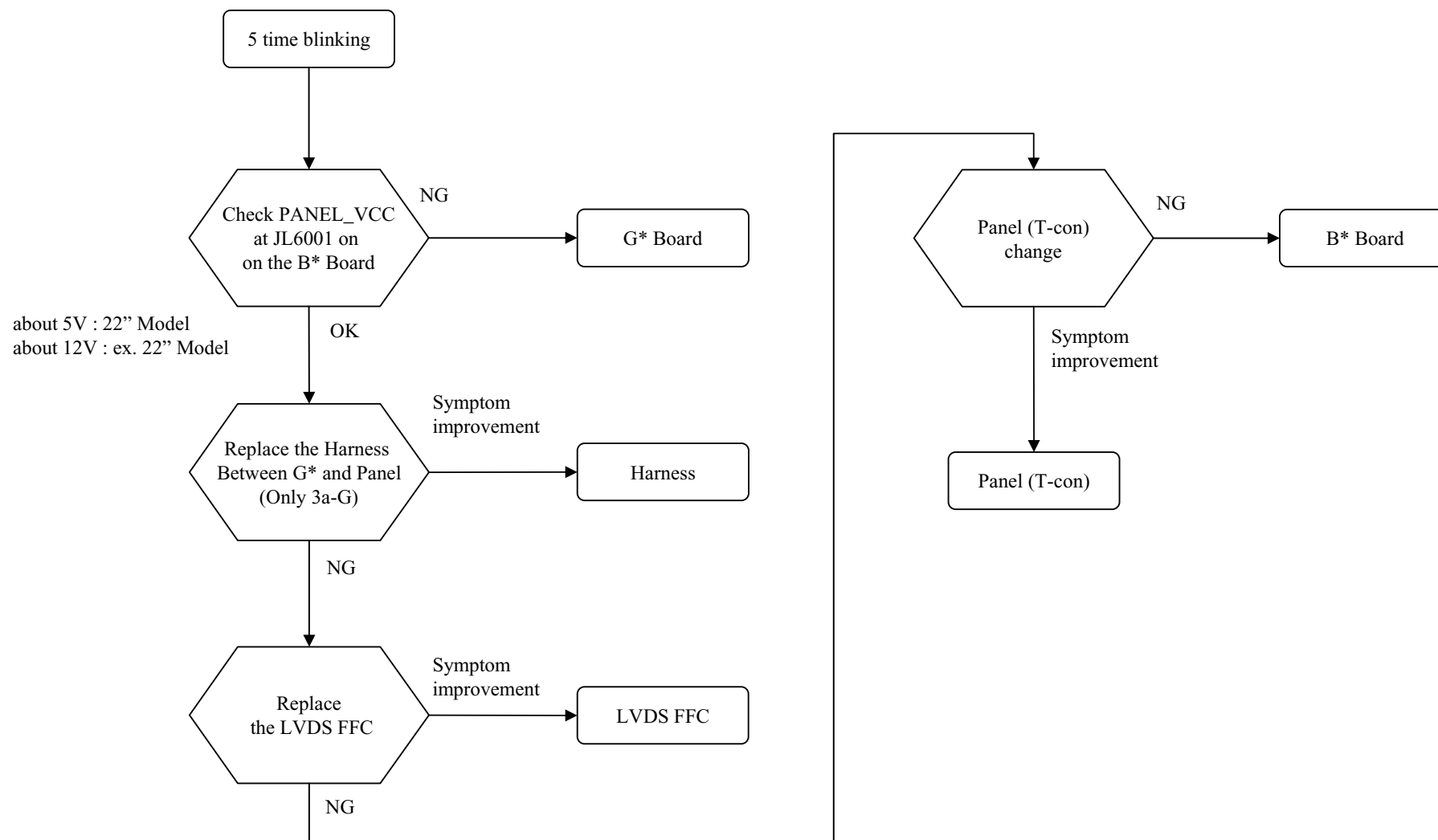
1) 2 times blinking (Main Power Error)



## 2) 3 times blinking (Main Board Error)

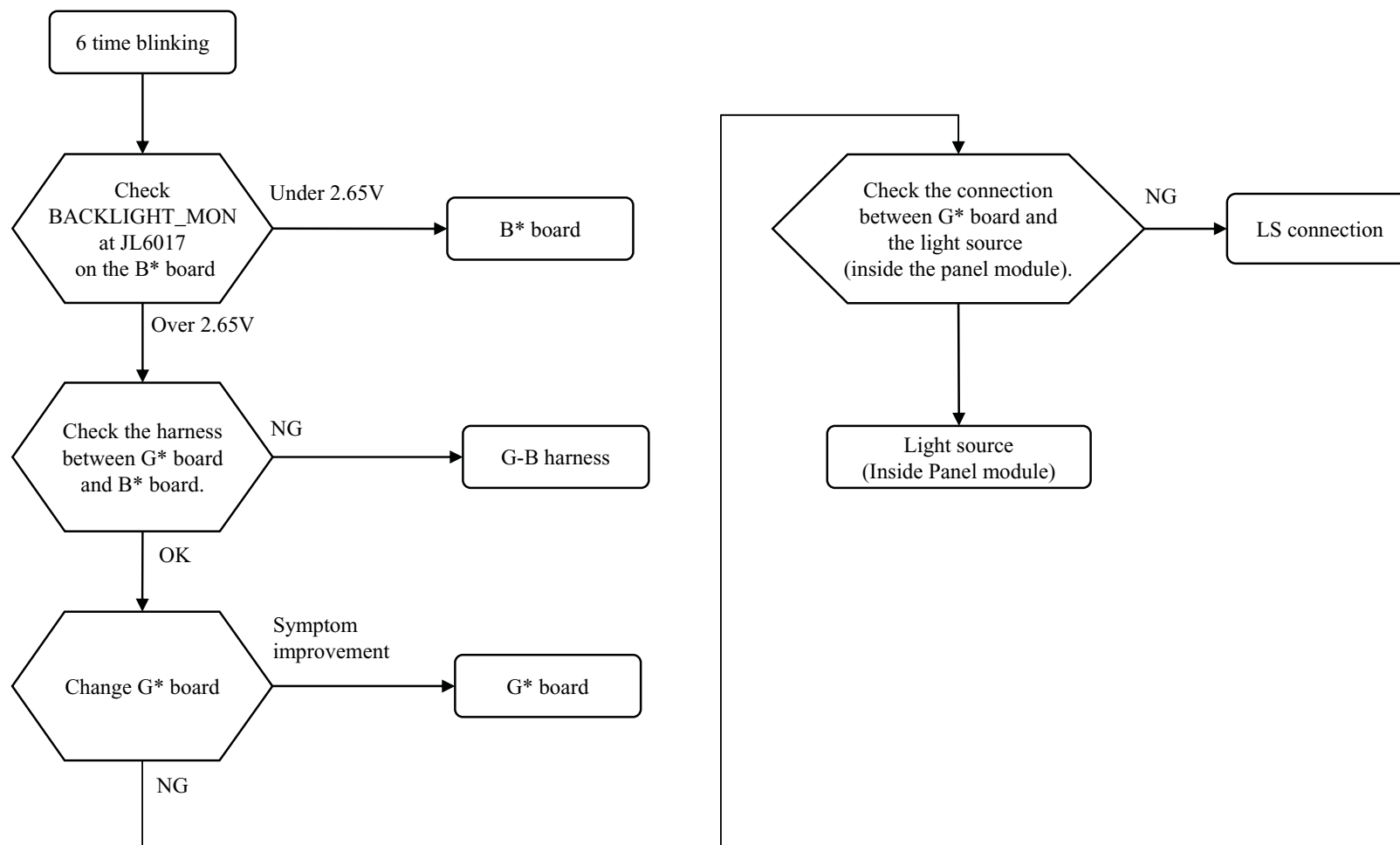


## 3) 5 times blinking (T-con Error)

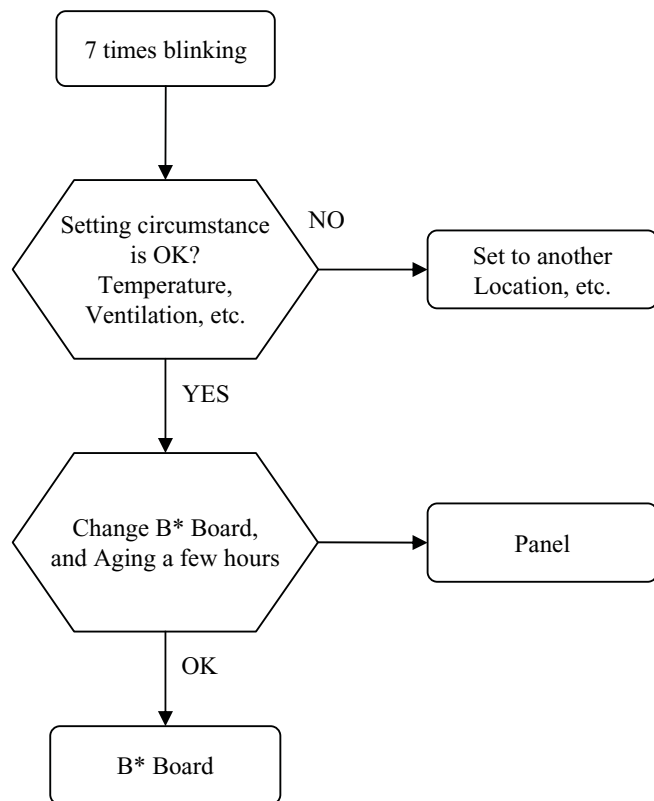




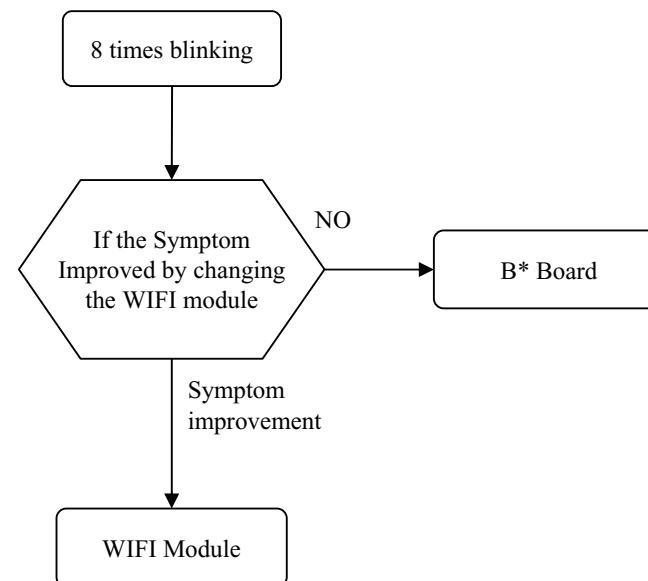
## 4) 6 times blinking (Backlight Error)



## 5) 7 times blinking (Temperature Error)

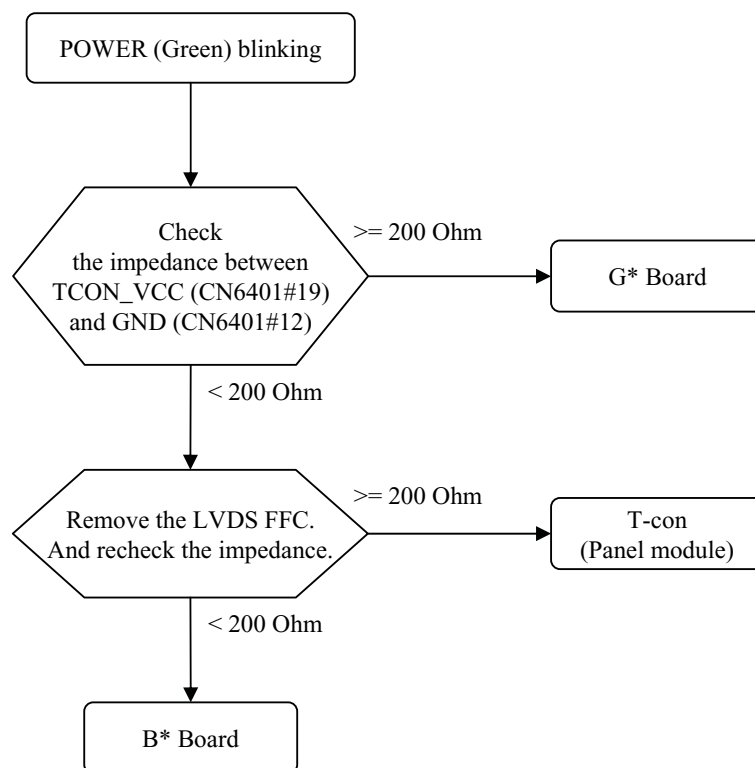


## 6) 8 times blinking (Software Error)

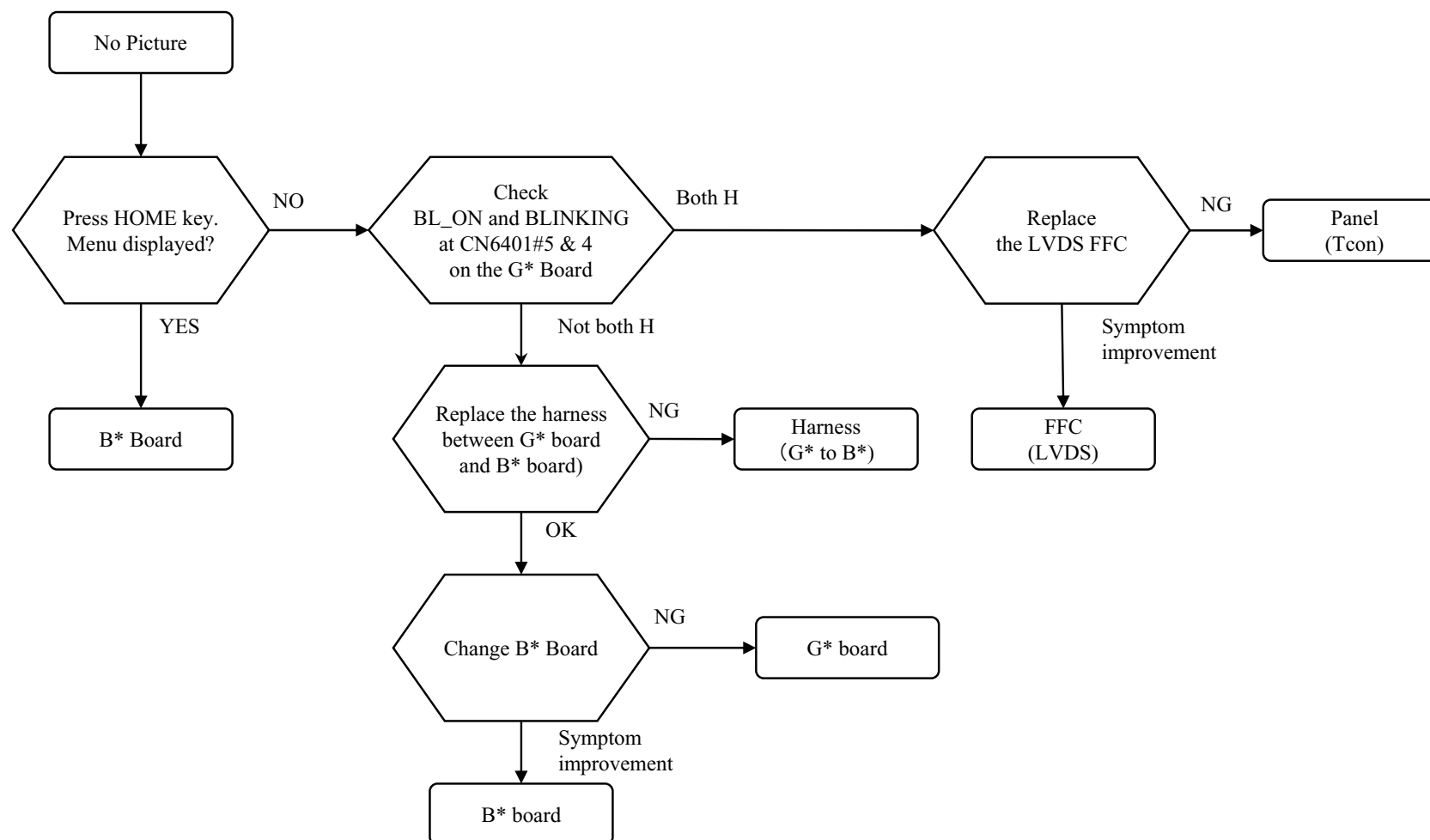


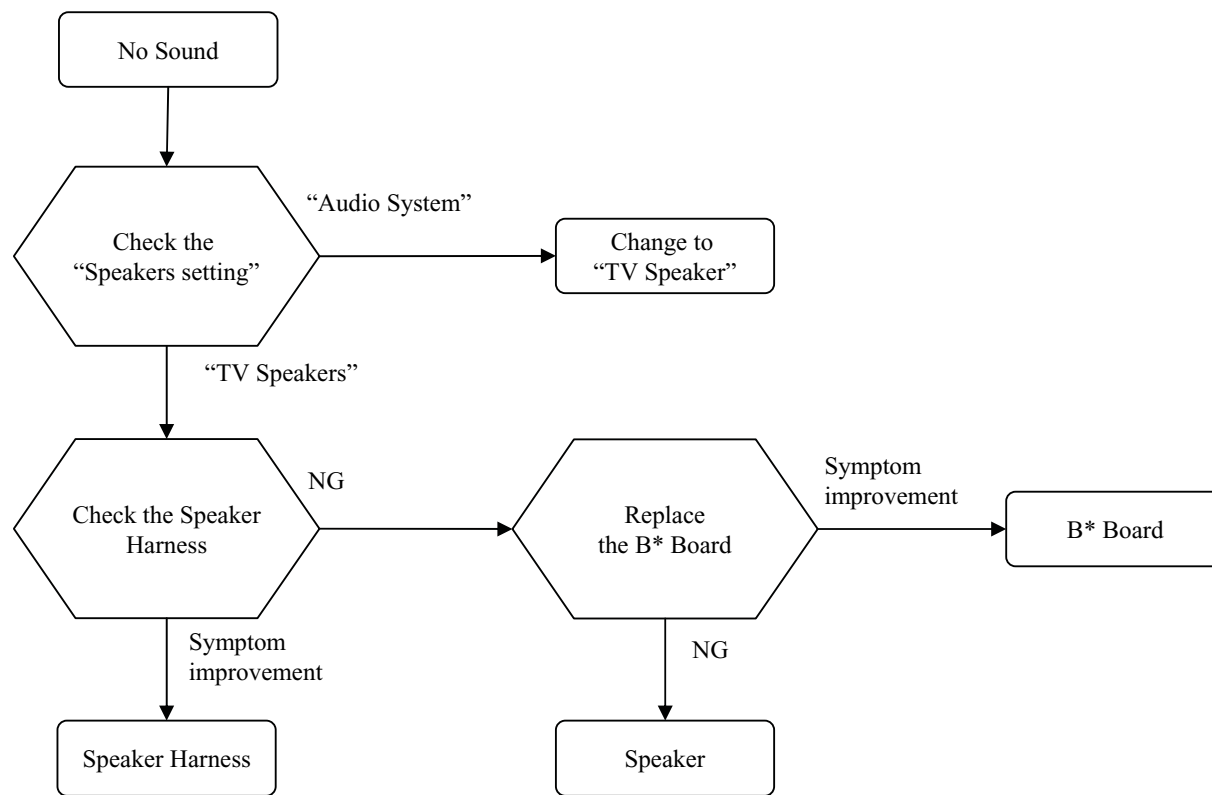
### 3-5. POWER (Green) LED BLINKING

Non-Stop blinking



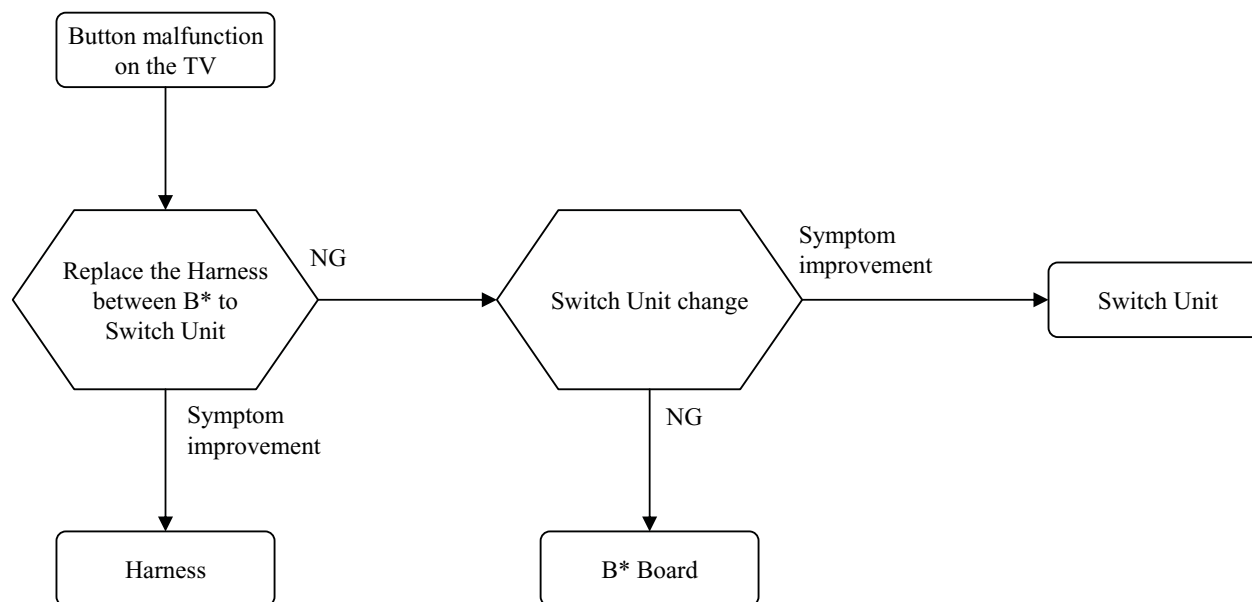
## 3-6. NO PICTURE



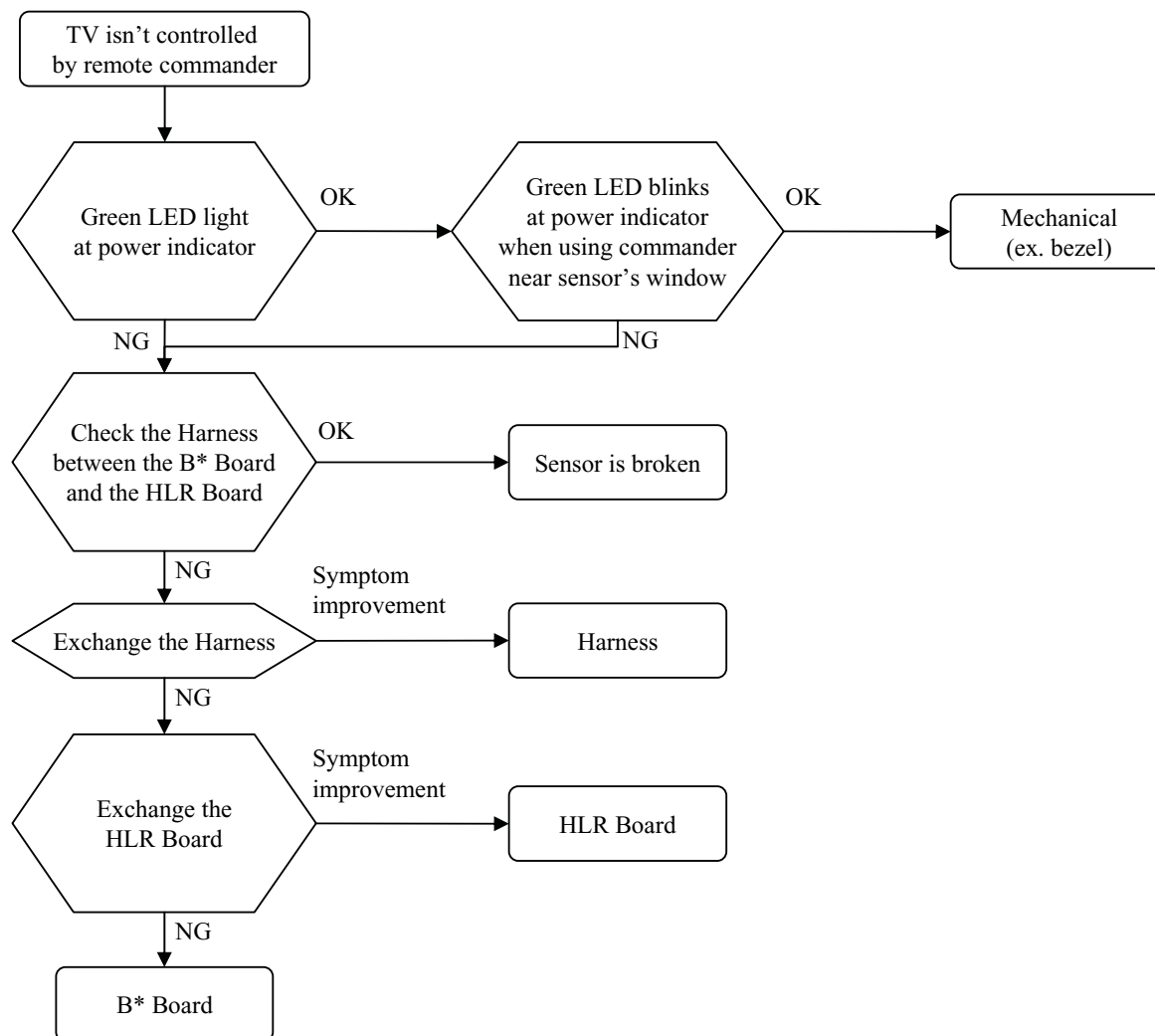
**3-7. NO SOUND**

### 3-8. TV COMMANDER BUTTONS MALFUNCTION

1) TV button malfunction



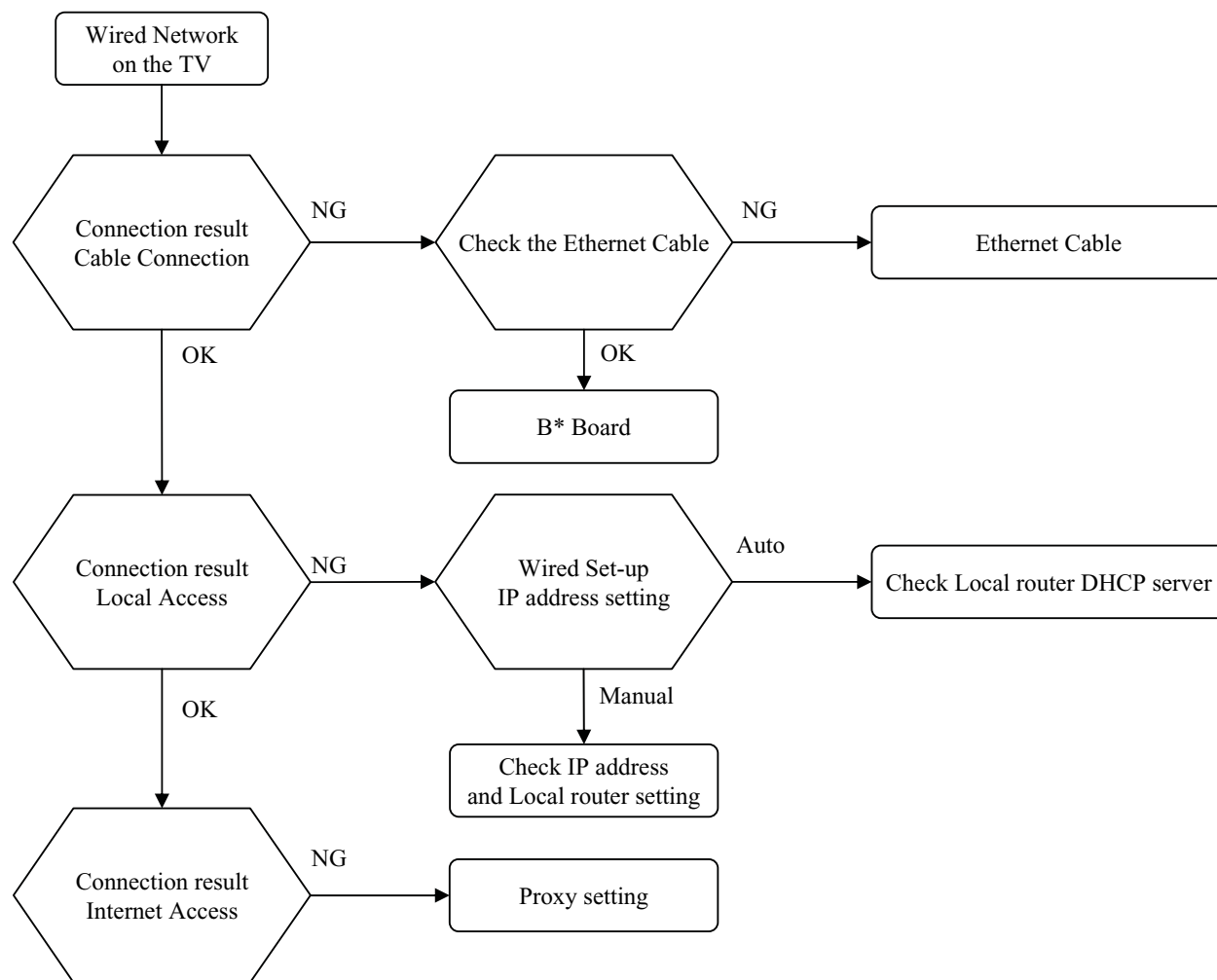
## 2) IR remote commander malfunction



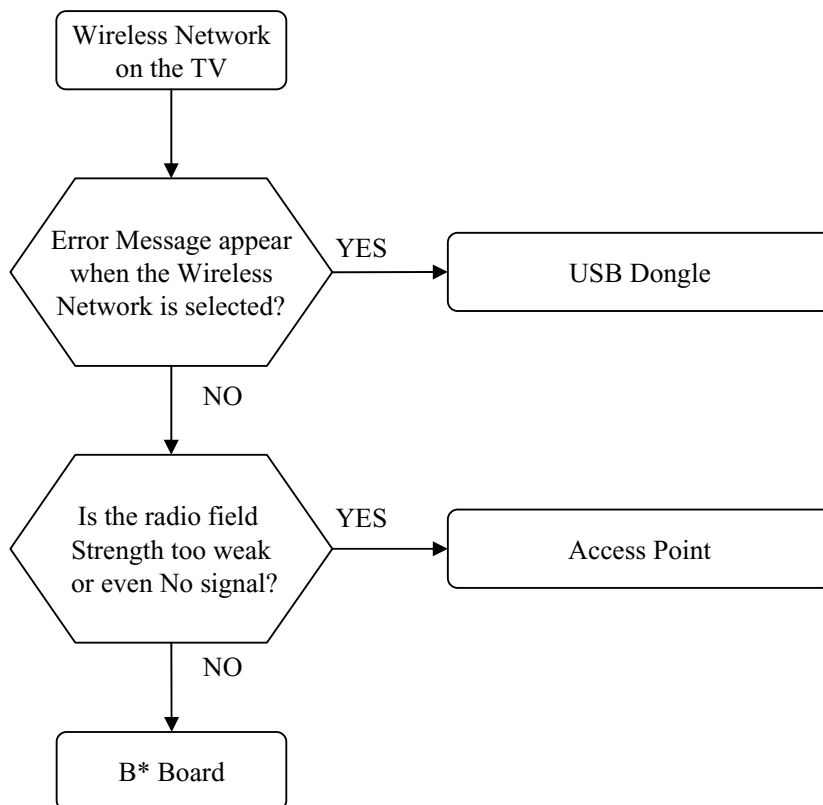


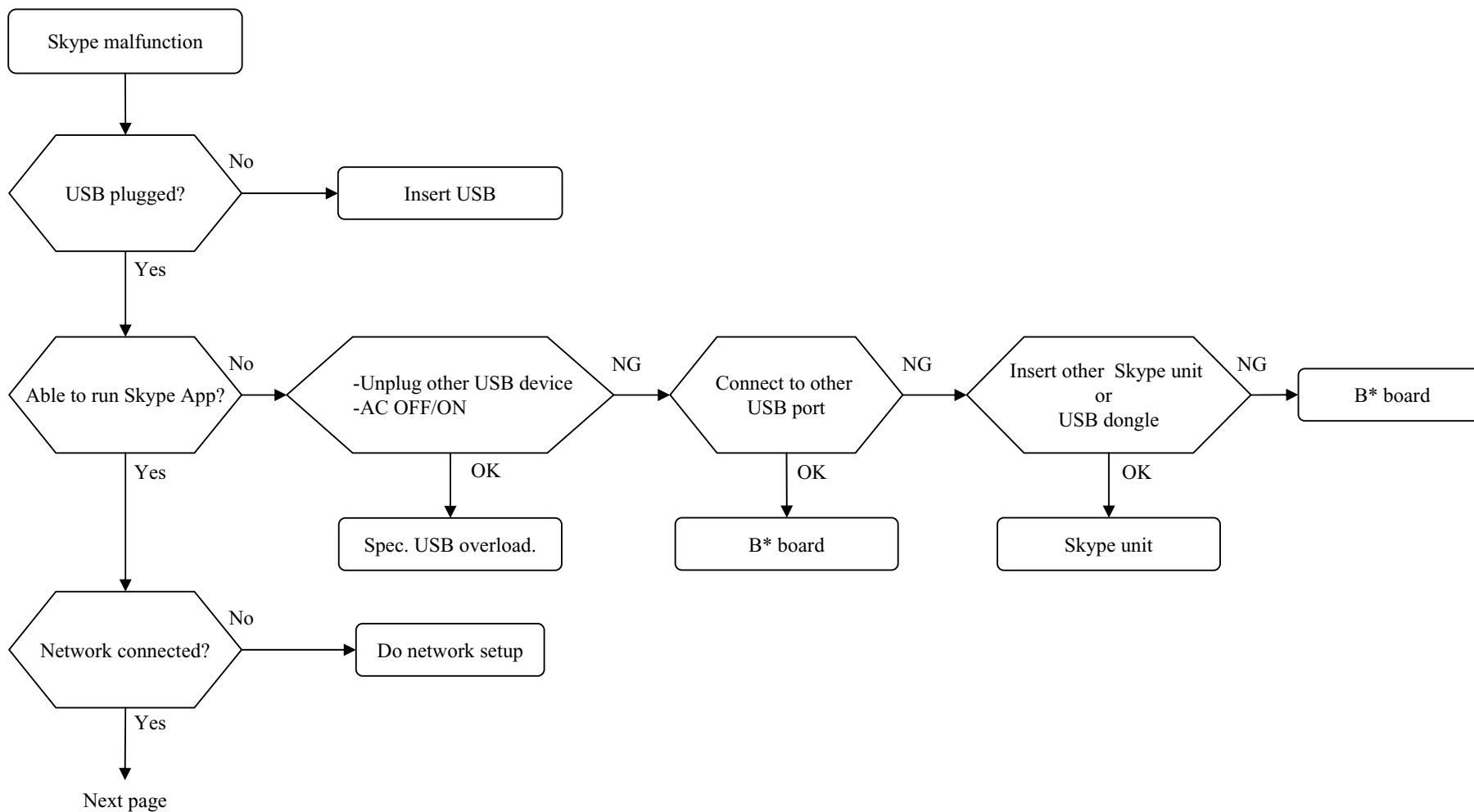
### 3-9. NETWORK MALFUNCTION

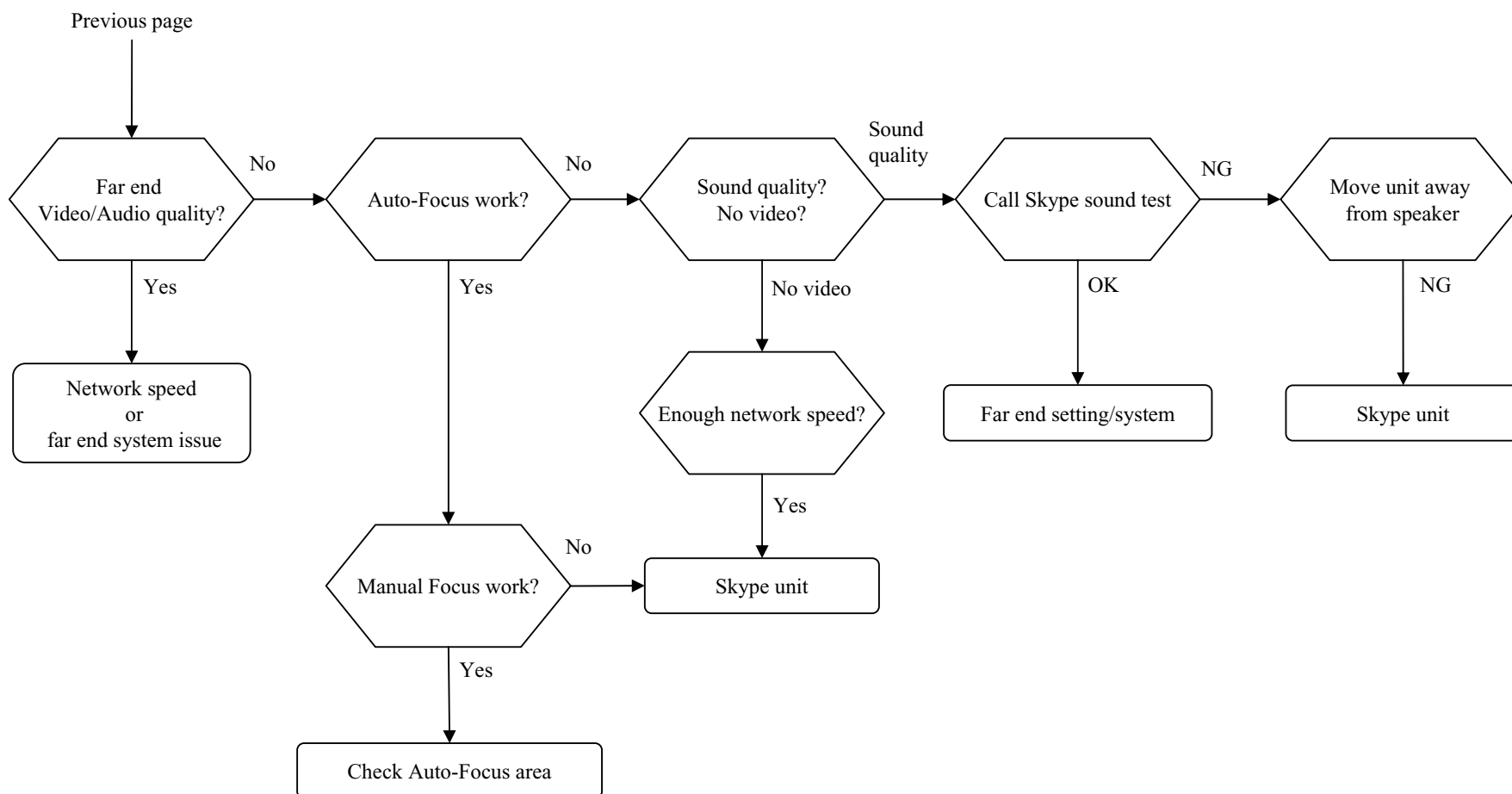
#### 1) Wired Network malfunction



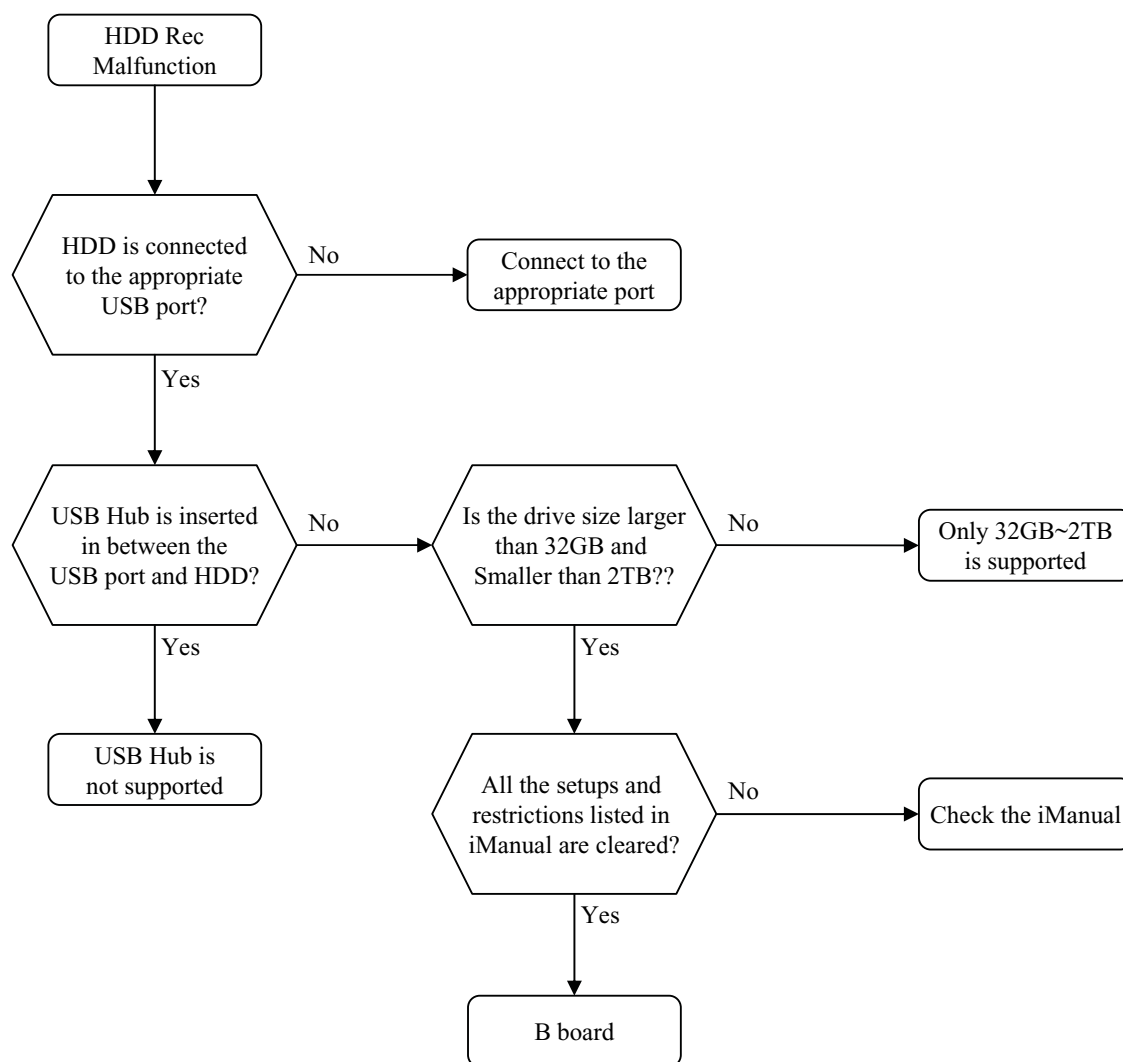
## 2) USB Wireless Network malfunction



**3-10. Skype MALFUNCTION 1/2**

**3-10. Skype MALFUNCTION 2/2**

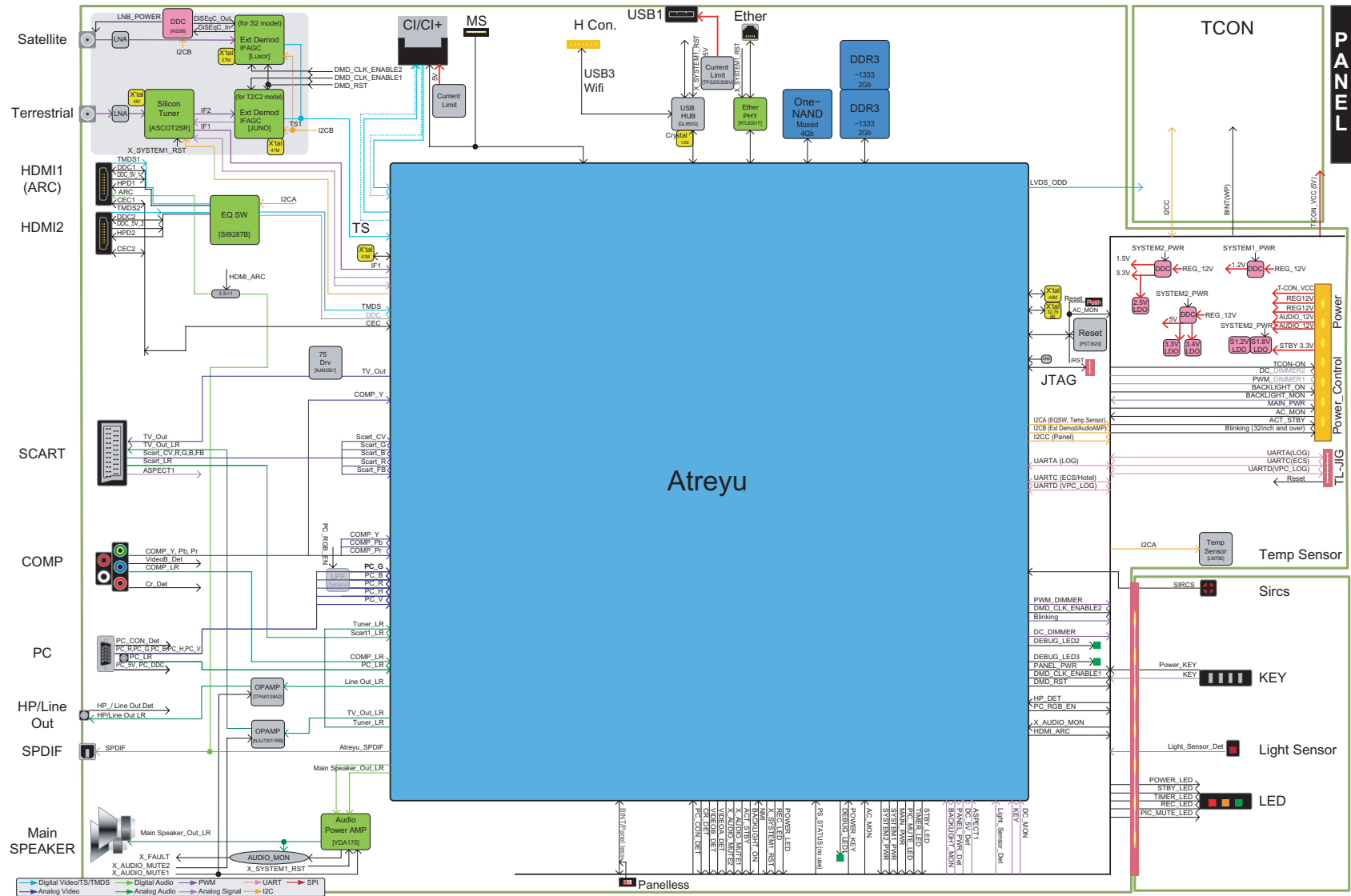
### 3-11. HDD-Rec MALFUNCTION



# SEC 4. DIAGRAMS

## 4-1. BLOCK DIAGRAM

### 4-1-1. KDL-22/26EX550/553/555



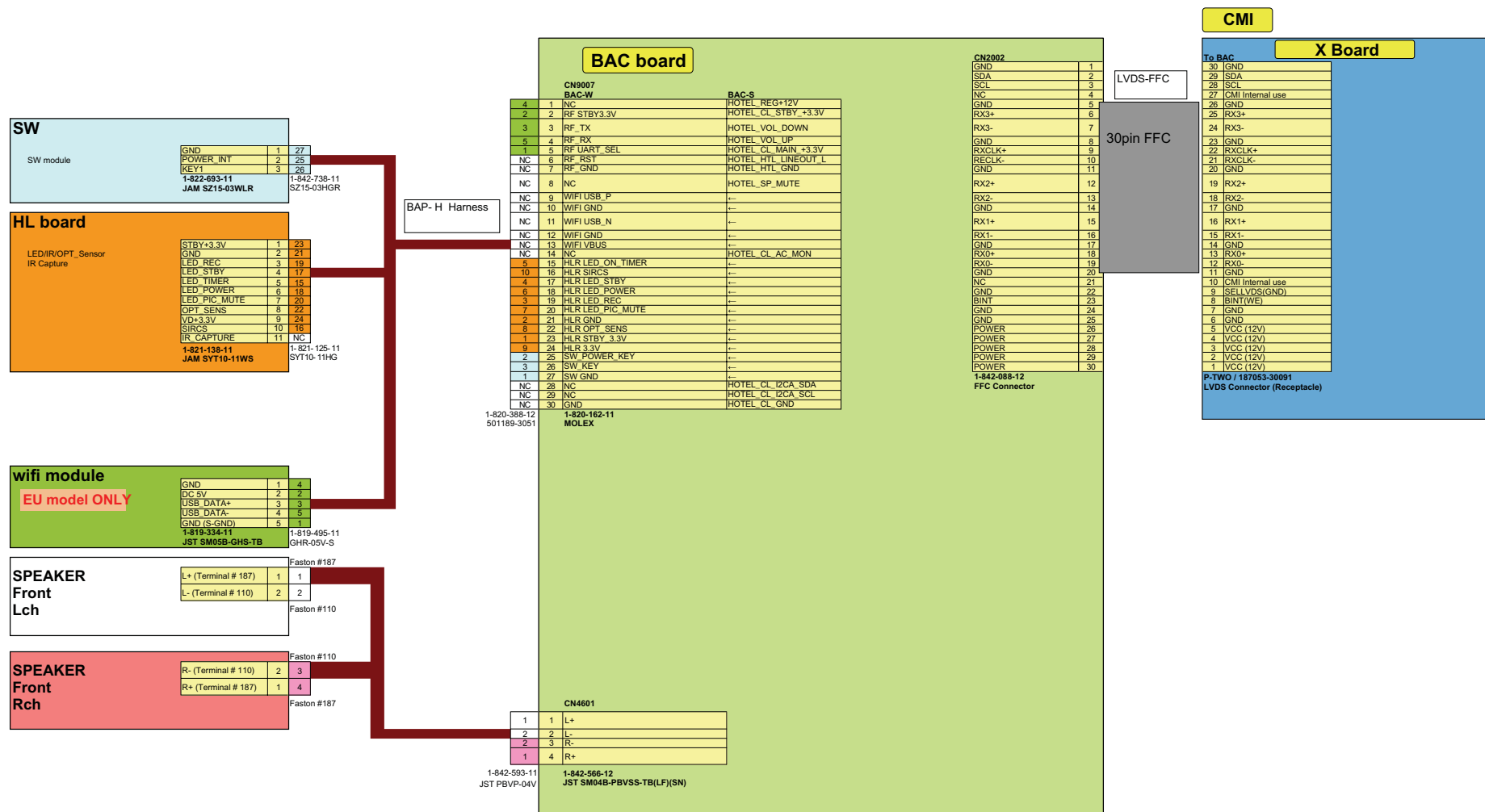


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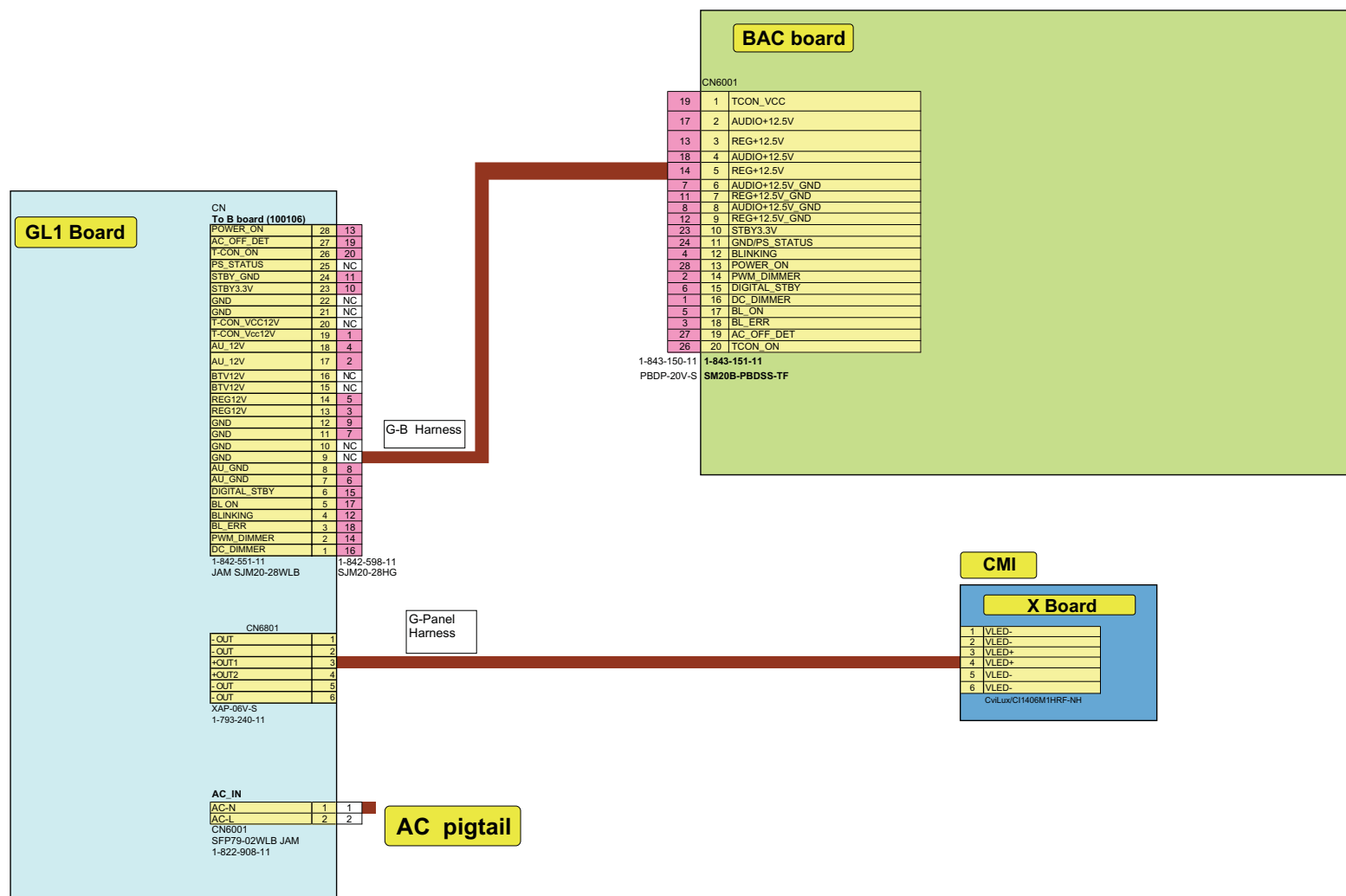


## 4-2. CONNECTOR DIAGRAM

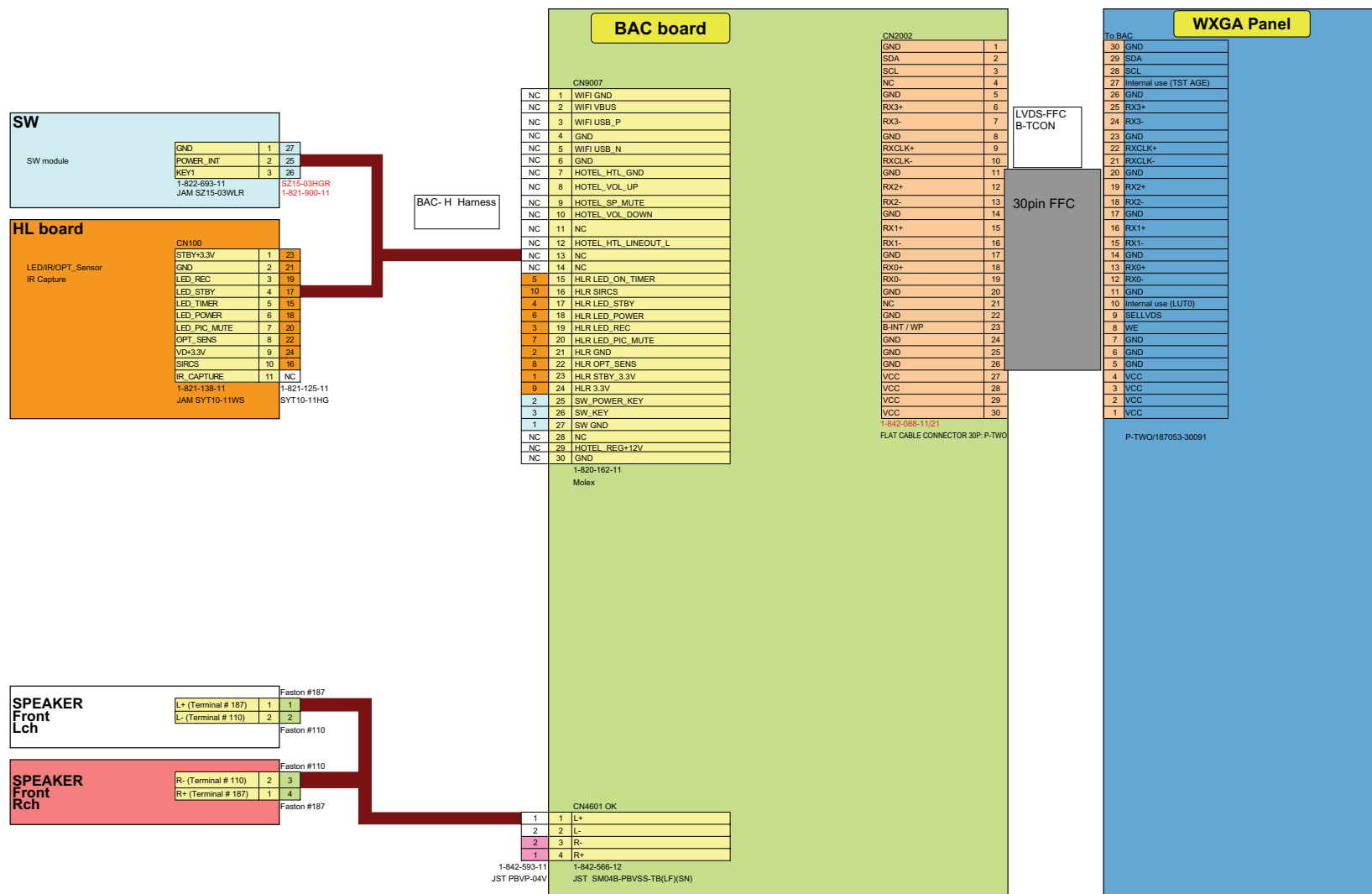
### 4-2-1. KDL-22EX550/553/555 (1/2)



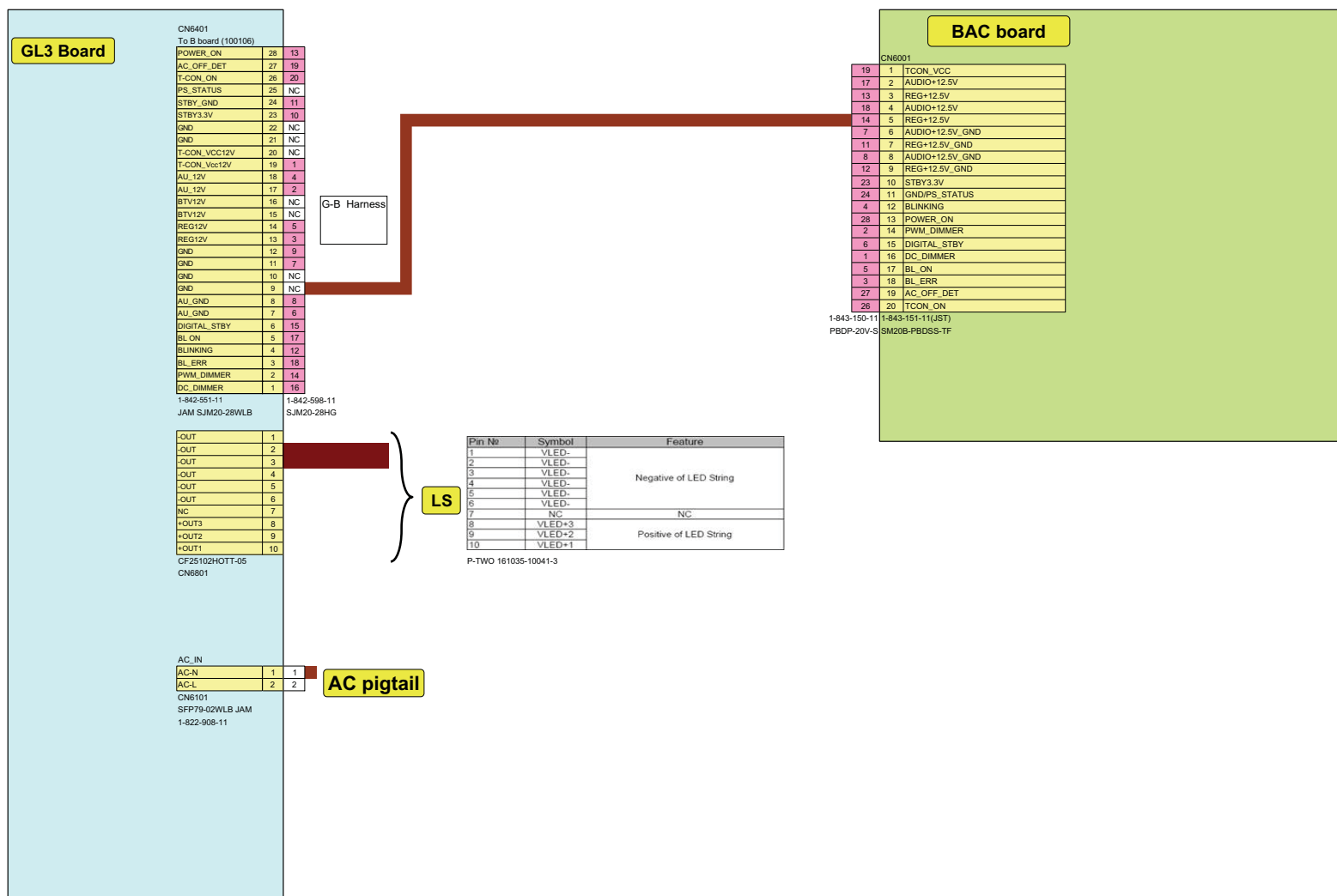
# 4-2-1. KDL-22EX550/553/555 (2/2)



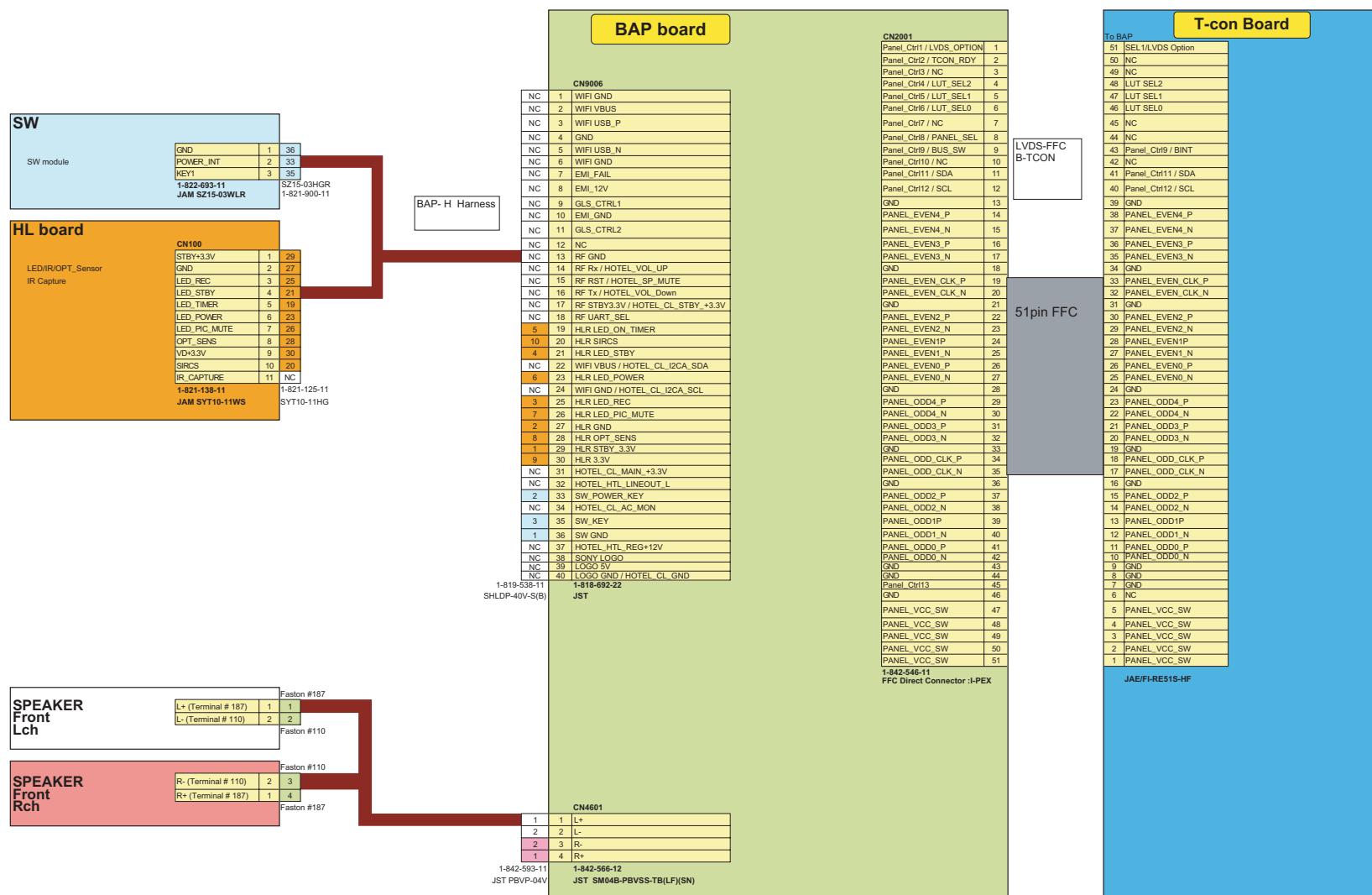
## 4-2-2. KDL-26EX550/553/555 (1/2)



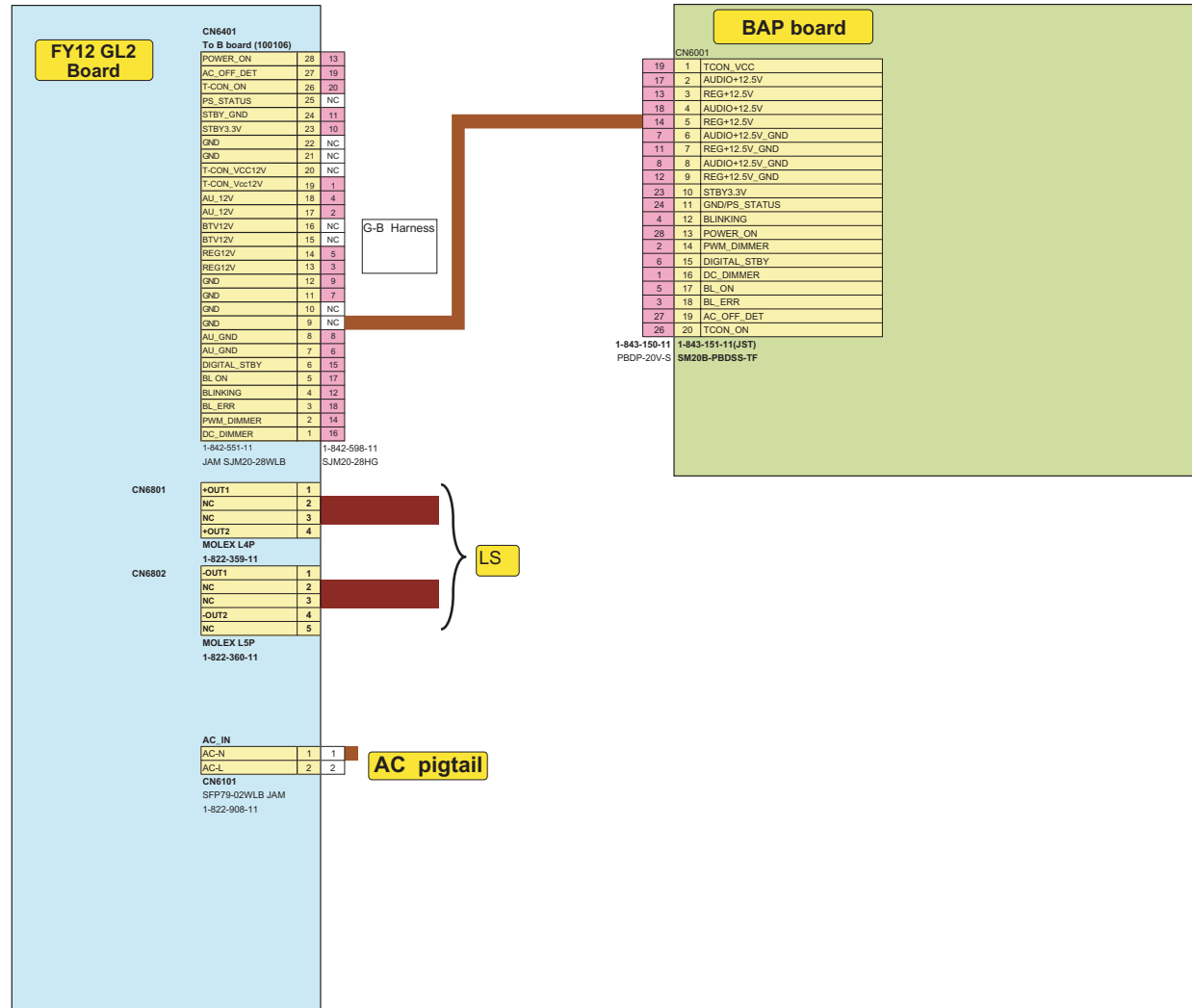
## 4-2-2. KDL-26EX550/553/555 (2/2)



## 4-2-3. KDL-32EX650/653/655 (1/2)

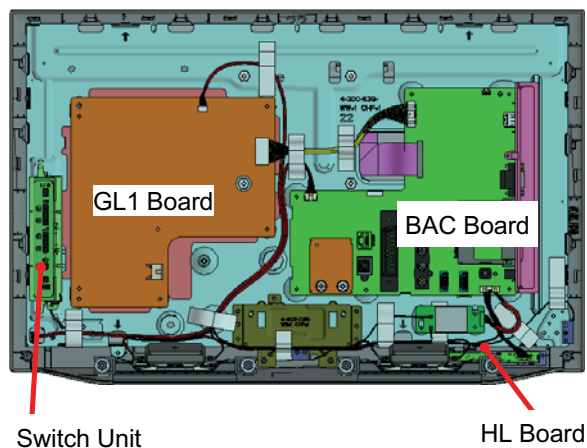


### 4-2-3. KDL-32EX650/653/655 (2/2)

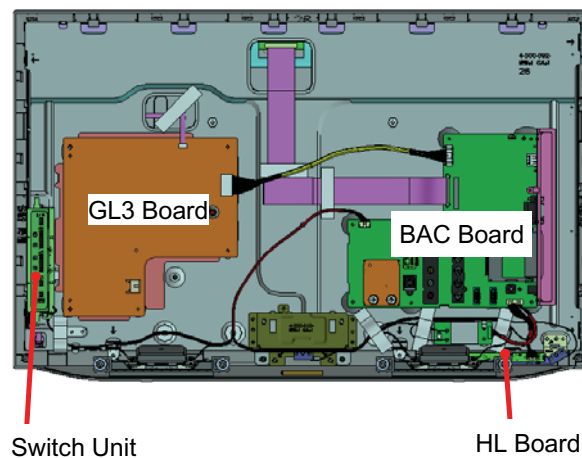


## 4-3. CIRCUIT BOARDS LOCATION

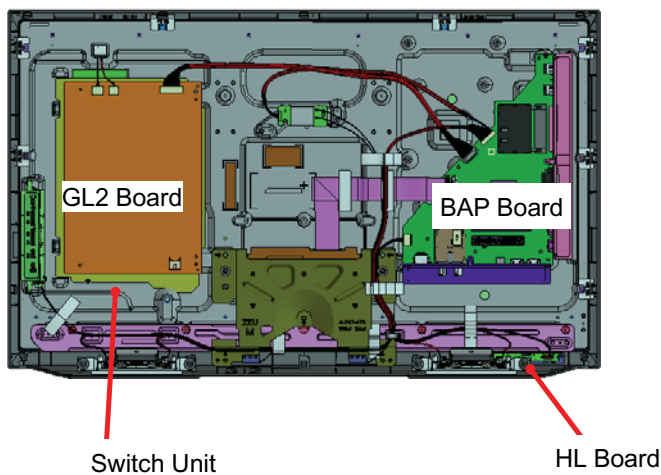
KDL-22EX550/553/555



KDL-26EX550/553/555



KDL-32EX650/653/655







## SEC 5. EXPLODED VIEWS

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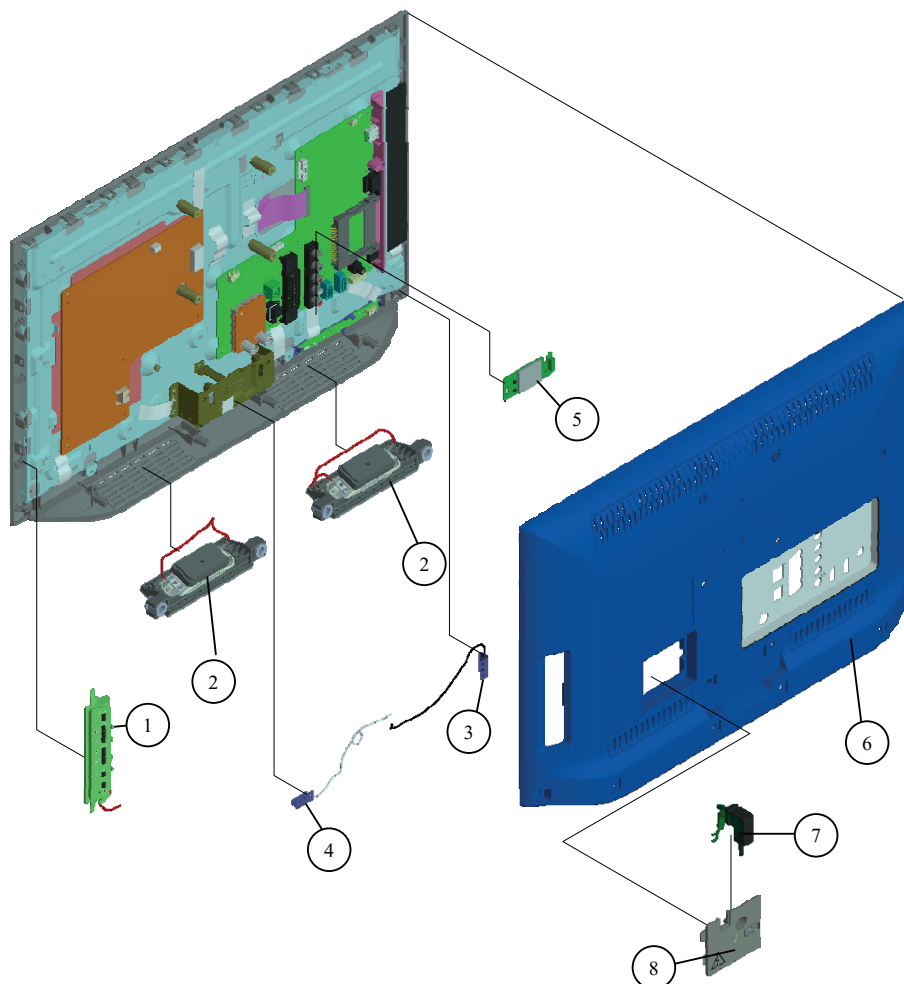
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine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

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

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

## 5-1. KDL-22EX550/553/555

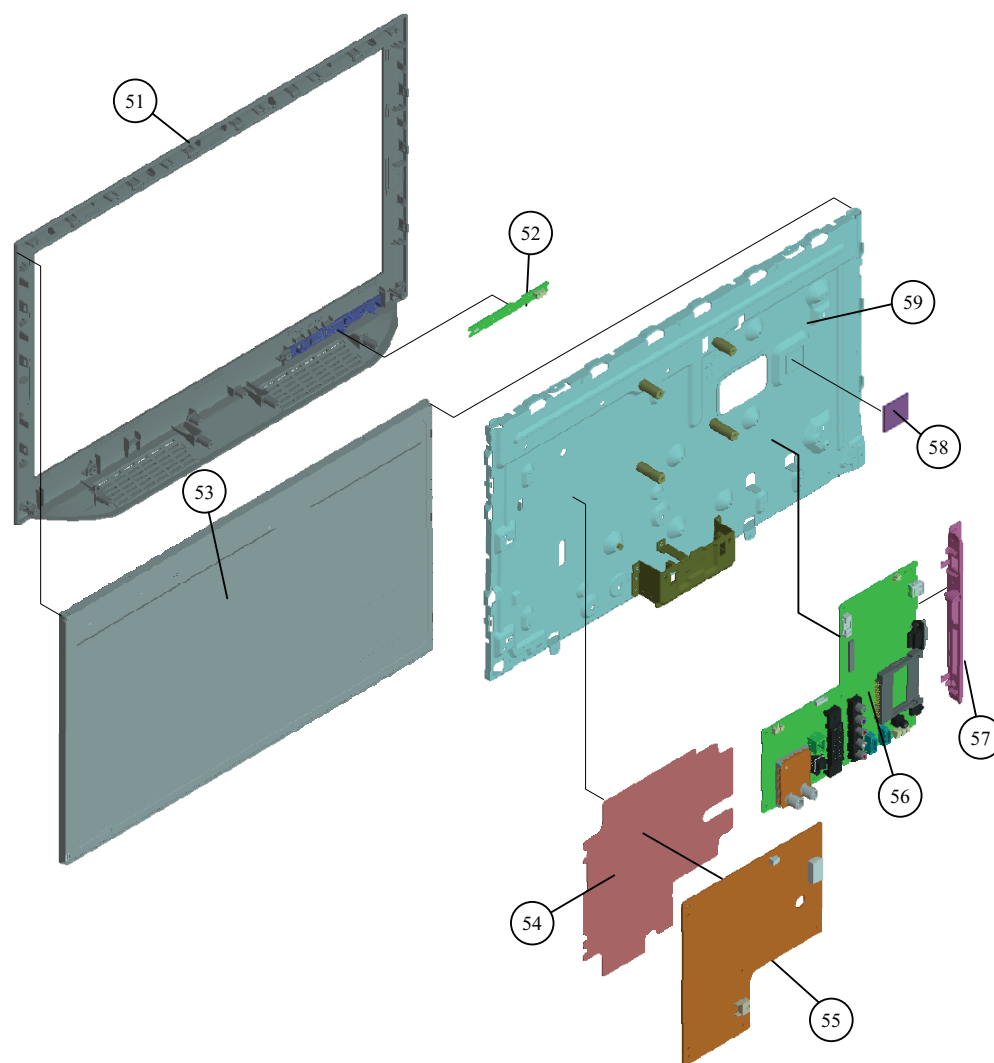
### 5-1-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	MARK
1	1-489-984-11	SWITCH UNIT	BLACK
	1-490-075-11	SWITCH UNIT	WHITE
2	1-858-710-11	LOUDSPEAKER (3X10CM)	
3	1-754-745-11	ANTENNA	
4	1-754-822-11	ANTENNA	
5	1-458-355-21	WIRELESS LAN CARD	
6	4-416-327-51	REAR COVER (22 TR1) A	BLACK
	4-416-327-91	REAR COVER (22 TRI) A	WHITE
	4-416-327-11	REAR COVER (22 TRI) A	555
7 ▲	1-839-691-11	CORD, POWER (WITH CONNECTOR)	Except UK
▲	1-839-667-11	CORD, POWER (WITH CONNECTOR)	UK
8	4-297-990-01	AC COVER S	BLACK
	4-297-990-21	AC COVER S	WHITE

## 5-1. KDL-22EX550/553/555

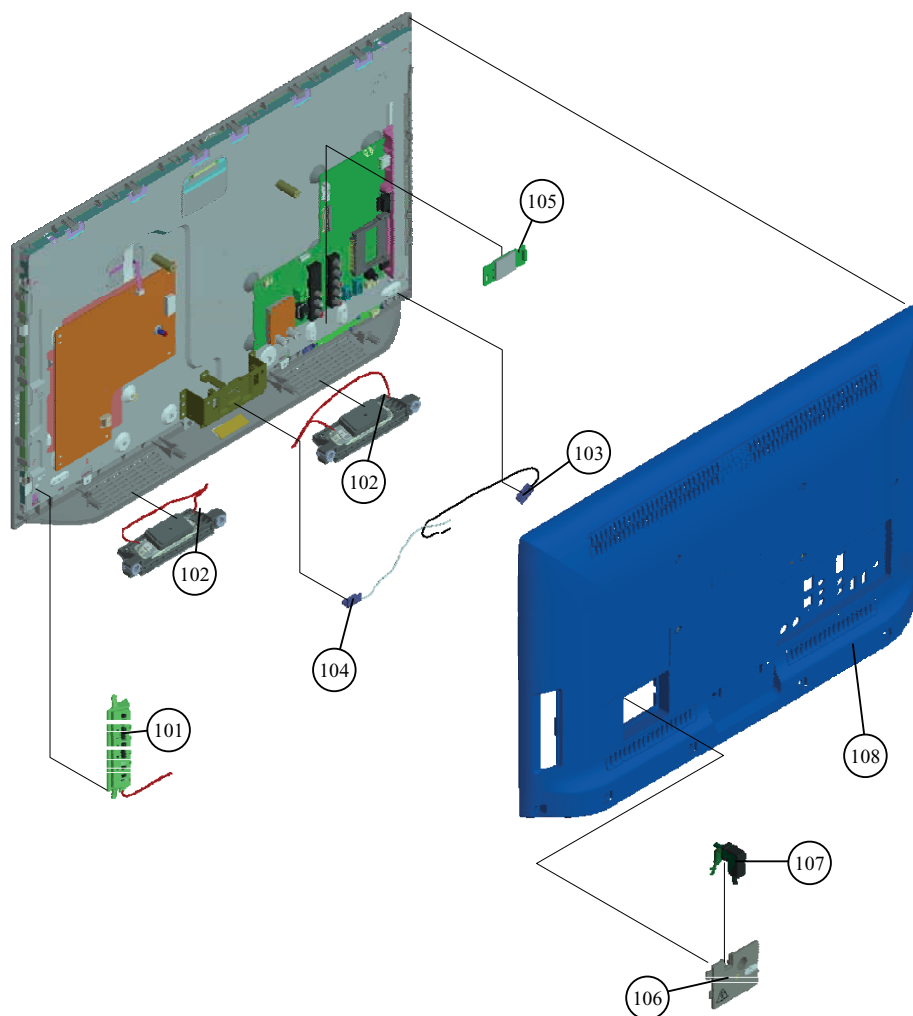
### 5-1-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	MARK
51	4-414-836-01	BEZEL (22 TR1) A	BLACK
	4-414-836-11	BEZEL (22 TR1) A	WHITE
52	A-1871-157-A	HL-B-NG-REC-IR-MOUNT	BLACK
	A-1871-159-A	HL-W-NG-REC-IR-MOUNT	WHITE
53	1-811-560-11	LCD PANEL(C216B1-LE3)	
54	4-297-999-51	SHEET, INSULATION	
55	1-474-384-11	GL1 STATIC CONVERTER (TV)	
56	A-1872-216-A	BACS SERVICE P2A 22W S AEP ST	550
	A-1873-449-A	BACS SERVICE P2A 22W S AEP T2	553 (AEP)
	A-1875-610-A	BACS SERVICE P2A 22W S MHP T2	553 (IT)
	A-1873-434-A	BACS SERVICE P2A 22W S AEP S2	555
57	4-297-988-91	BRACKET, SIDE (SMALL)	BLACK
	4-297-988-71	BRACKET, SIDE (SMALL)	WHITE
58	4-300-810-01	SHEET, THERMAL (ATREYU)	
59	4-298-470-01	BRACKET, LCD (22 TR1) A	

## 5-2. KDL-26EX550/553/555

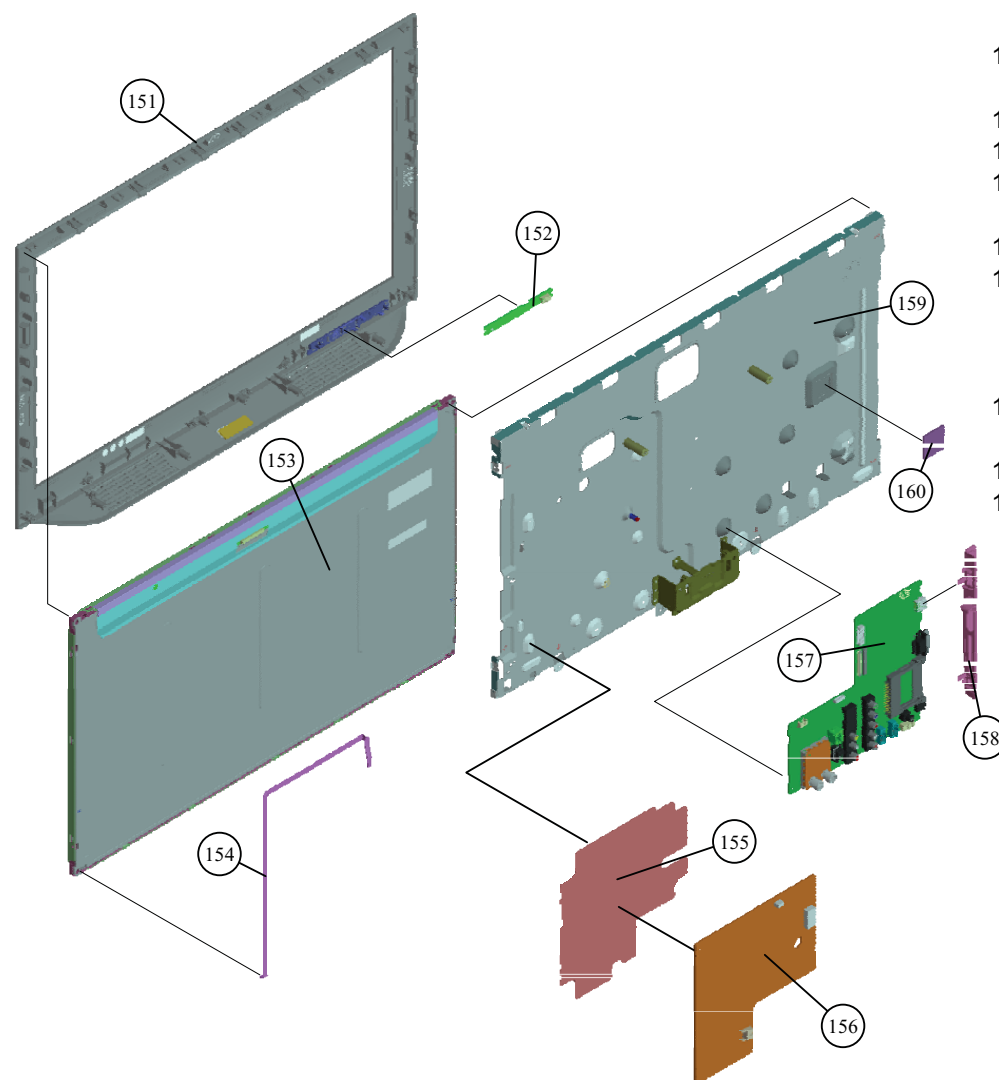
### 5-2-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	MARK
101	1-489-984-11	SWITCH UNIT	BLACK
	1-490-075-11	SWITCH UNIT	WHITE
102	1-858-710-11	LOUDSPEAKER (3X10CM)	
103	1-754-822-11	ANTENNA	
104	1-754-823-11	ANTENNA	
105	1-458-355-21	WIRELESS LAN CARD	
106	4-297-990-21	AC COVER S	WHITE
	4-297-990-01	AC COVER S	BLACK
107	⚠ 1-839-691-11	CORD, POWER (WITH CONNECTOR)	Except UK
	⚠ 1-839-667-11	CORD, POWER (WITH CONNECTOR)	UK
108	4-417-175-51	REAR COVER (26 TR1) A	BLACK
	4-417-175-91	REAR COVER (26 TRI) A	WHITE
	4-417-175-11	REAR COVER (26 TRi) A	555 BLACK
	4-417-175-71	REAR COVER (26 TRI) A	555 WHITE

## 5-2. KDL-26EX550/553/555

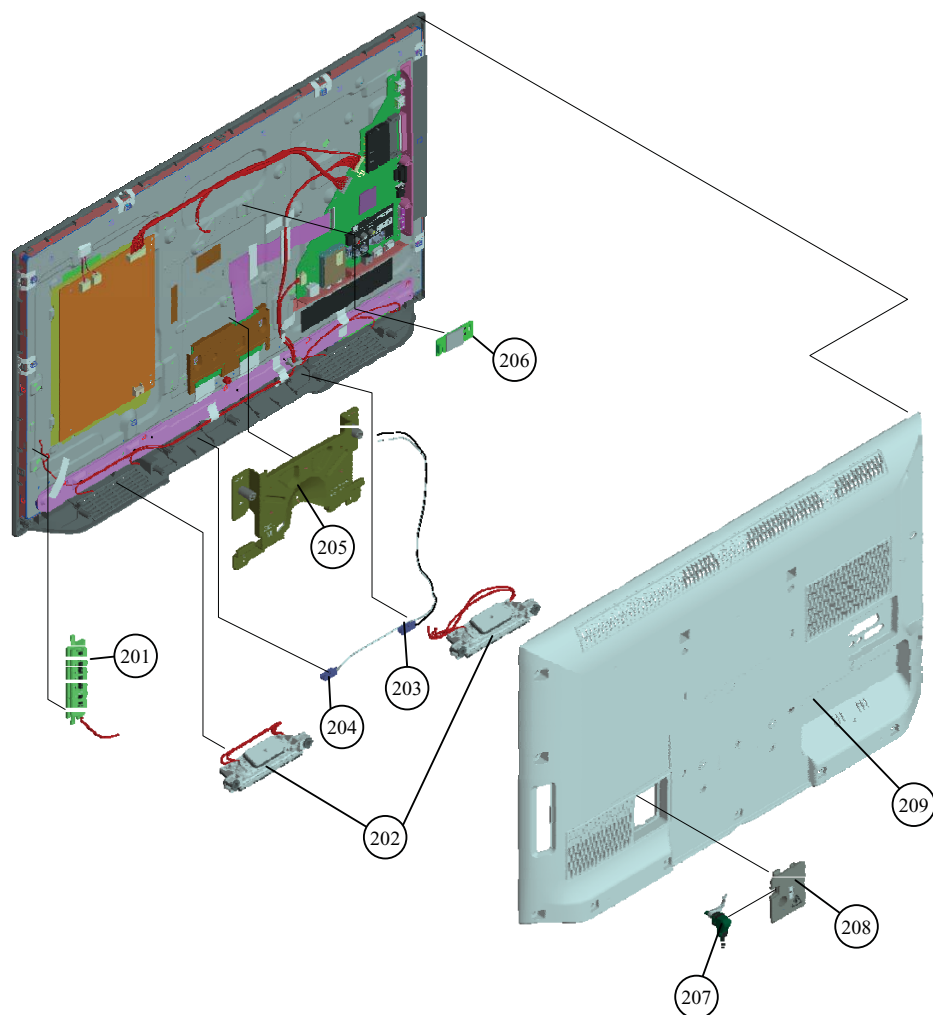
### 5-2-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	MARK
151	4-414-830-01	BEZEL (26 TR1) A	BLACK
	4-414-830-11	BEZEL (26 TR1) A	WHITE
152	A-1871-157-A	HL-B-NG-REC-IR-MOUNT	BLACK
	A-1871-159-A	HL-W-NG-REC-IR-MOUNT	WHITE
153 ▲	1-811-561-11	LCD PANEL (C260B3-LE2)	
154	1-910-803-01	FFC 10PIN	
155	4-297-999-51	SHEET, INSULATION	
156 ▲	1-474-378-11	GL3 STATIC CONVERTER (TV)	
157	A-1874-795-A	BACS SERVICE P2A 26W S AEP STD	550
	A-1874-803-A	BACS SERVICE P2A 26W S AEP T2	553 (AEP)
	A-1875-603-A	BACS SERVICE P2A 26W S MHP T2	553 (IT)
	A-1874-797-A	BACS SERVICE P2A 26W S AEP S2	555
158	4-297-988-71	BRACKET, SIDE (SMALL)	WHITE
	4-297-988-91	BRACKET, SIDE (SMALL)	BLACK
159	4-298-474-02	BRACKET, LCD (26 TR1) A	
160	4-300-810-01	SHEET, THERMAL (ATREYU)	

### 5-3. KDL-32EX650/653/655

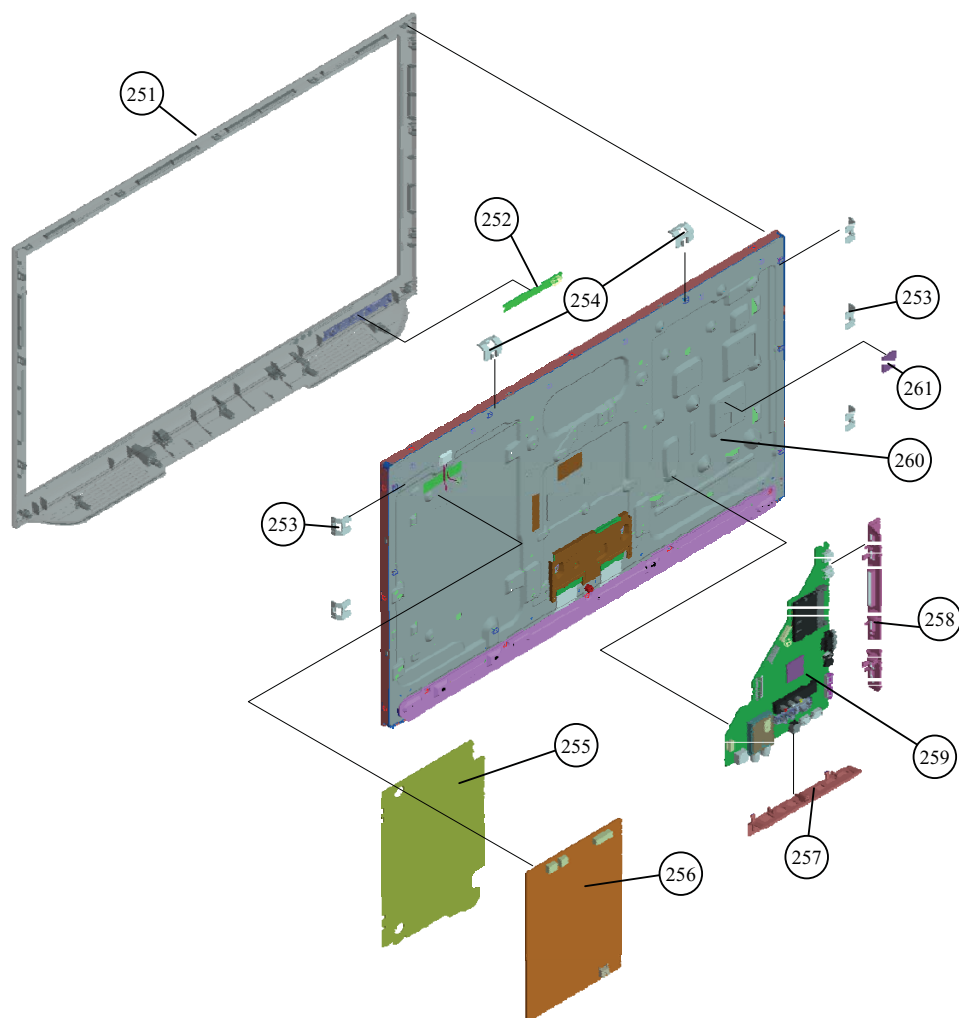
#### 5-3-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	MARK
201	1-489-984-11	SWITCH UNIT	
202	1-858-714-11	LOUDSPEAKER (3X10CM)	
203	1-754-824-11	ANTENNA	
204	1-754-825-11	ANTENNA	
205	4-424-611-01	FRAME, BOTTOM (M)	
206	1-458-355-21	WIRELESS LAN CARD	
207	⚠ 1-839-691-11	CORD, POWER (WITH CONNECTOR)	Except UK
	⚠ 1-839-667-11	CORD, POWER (WITH CONNECTOR)	UK
208	4-297-989-01	AC COVER	
209	4-419-069-61	REAR COVER (32 ZE) A	

## 5-3. KDL-32EX650/653/655

### 5-3-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	MARK
251	4-414-824-01	BEZEL (32 NK1) A	
252	A-1871-157-A	HL-B-NG-REC-IR-MOUNT	
253	4-297-524-01	BRACKET, PANEL (V)	
254	4-297-525-01	BRACKET, PANEL (H)	
255	4-297-998-41	SHEET, INSULATION (GL2)	
256	1-474-383-11	GL2 STATIC CONVERTER (TV)	
257	4-297-986-81	BRACKET, UNDER (MOLD C)	
	4-297-986-91	BRACKET, UNDER (MOLD C)	655
258	4-297-982-91	BRACKET, SIDE (MOLD C)	
259	A-1875-705-A	BAPS SERVICE P2A FHD S AEP STD	650
	A-1875-721-A	BAPS SERVICE P2A FHD S AEP T2	653 (AEP)
	A-1875-722-A	BAPS SERVICE P2A FHD S MHP T2	653 (IT)
	A-1875-711-A	BAPS SERVICE P2A FHD S AEP S2	655
260	1-811-511-11	LCD PANEL (S32WSL)	
261	4-300-810-01	SHEET, THERMAL (ATREYU)	

\*2

Refer to "Service Procedure for Panel, Board and Software Change/Upgrade" for disabling Tuner function of B2B model.

## 5-4. OTHER PART

### 5-4-1. MISCELLANEOUS

PART No.	DESCRIPTION	MARK
1-910-802-96	HARNESS ASSY EU+14P	22 inch
1-910-802-98	HARNESS ASSY EU	26 inch
1-910-803-00	HARNESS ASSY EU	32 inch
1-910-802-97	CONNECTOR ASSY 28P	22 inch
1-910-802-99	CONNECTOR ASSY 28P	26 inch
1-839-954-11	FLEXIBLE FLAT CABLE	22 inch
1-839-953-11	FLEXIBLE FLAT CABLE	26 inch
1-839-955-11	FFC WITH CONNECTOR	32 inch
4-298-004-01	SPACER (B)	
4-408-119-01	CUSHION (PWB G)	
4-262-708-04	CLAMPER, CABLE	
4-412-735-21	LABEL, (BAT-S MOLD SIDE)	22/26 inch WHITE
4-412-735-11	LABEL, (BAT-S MOLD SIDE)	22/26 inch BLACK
4-400-419-11	LABEL, SIDE TERMINAL (32ZEU)	32 inch
4-400-432-21	LABEL, UNDER TERMINAL	32 inch
4-400-432-31	LABEL UNDER TERMINAL	32EX655

### 5-4-2. ACCESSORIES

PART No.	DESCRIPTION	MARK
1-490-022-11	REMOTE COMMANDER (RM-ED050)	
4-300-957-11	STAND EASEL(SS)	22/26 inch WHITE
4-300-957-21	STAND EASEL(SS)	22/26 inch BLACK
4-300-958-12	STAND, HEAD P(M)	32 inch
4-400-036-01	STAND, PIPE (M)	32 inch
2-580-608-31	SCREW, +PSW M5X16	
4-411-984-22	MANUAL, INSTRUCTION (DE, ES, FR, IT, NL, PT)	
4-411-984-31	MANUAL, INSTRUCTION (DK, FI, NO, SE)	
4-411-984-92	MANUAL, INSTRUCTION (BG, CZ, GR, HU, PL, RO, SK, TR)	
2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	



# END

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**9-888-481-02**

**Sony Corporation  
Home Entertainment  
Business Group**

**English**  
2012CL08-Data  
Made in Japan  
© 2012. 03

# APPENDIX-1

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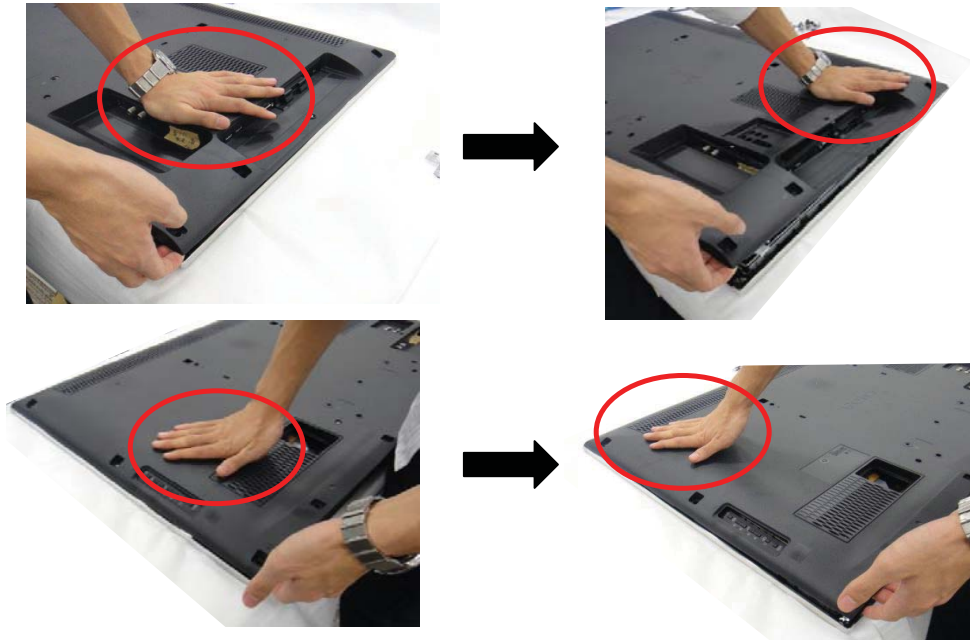
## PROCEDURE TO REMOVE OF REAR COVER

1. Remove screw for Rear cover and AC cover.
2. Create clearance between Bezel Assy and Rear cover with holding Rear cover.
3. Insert finger in the bottom corner.

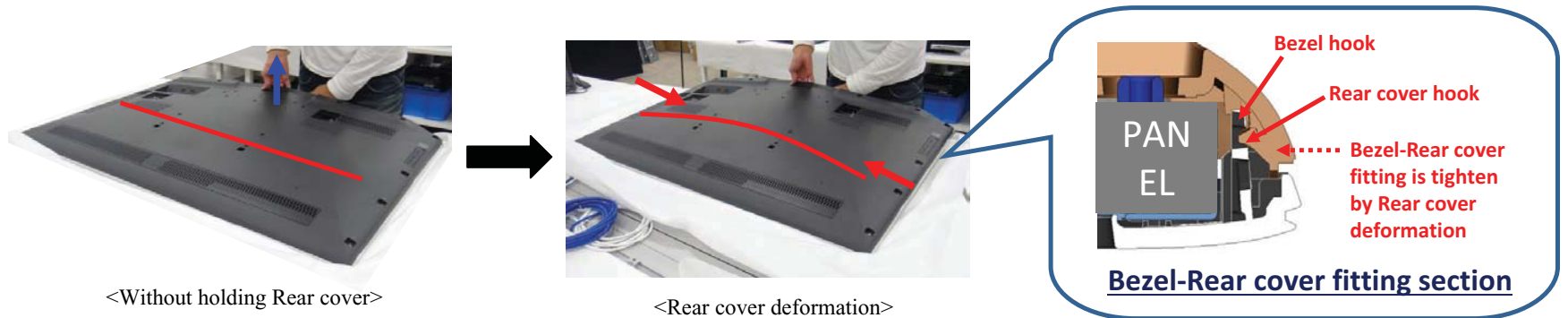


## PROCEDURE TO REMOVE OF REAR COVER

4. Holding the rear cover so that it doesn't move, and then release the side hook.



**Note:** Without “holding Rear cover by hand”, Rear cover hooks won’t be released easily. (Possibility of damage to Rear cover hooks or Bezel Clips.)



## PROCEDURE TO REMOVE OF REAR COVER

5. Lift the lower part of the rear cover, and then release the top hook and corner hook.



Note: When releasing the top hook from the rear cover, push the rear cover forward.



<OK>



<NG>