

## HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

# *SERVICE MANUAL*

**ORIGINAL MANUAL ISSUE DATE: 3/2011**

**AZ2F CHASSIS**

**Segment: 3a-1**

<b>Version</b>	<b>Date</b>	<b>Subject</b>
1.0	3/2011	Original manual issue.

**LCD Digital Color TV**

**SONY®**

KDL-40/46/55/60NX720,723,725 (AEP/UK/RUSSIA)

S/N range 3,000,001-4,500,000 (FX)

9-888-398-01

# *SERVICE MANUAL*

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AZ2F CHASSIS  
Segment: 3a-1

**LCD Digital Color TV**

**SONY®**

# MODEL LIST

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<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
<b>KDL-40NX720</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/RUSSIA
<b>KDL-40NX723</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/UK
<b>KDL-40NX725</b>	<i>Black</i>	<i>RM-ED044</i>	AEP
<b>KDL-46NX720</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/RUSSIA
<b>KDL-46NX723</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/UK
<b>KDL-46NX725</b>	<i>Black</i>	<i>RM-ED044</i>	AEP
<b>KDL-55NX720</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/RUSSIA
<b>KDL-55NX723</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/UK
<b>KDL-55NX725</b>	<i>Black</i>	<i>RM-ED044</i>	AEP
<b>KDL-60NX720</b>	<i>Black</i>	<i>RM-ED044</i>	AEP
<b>KDL-60NX723</b>	<i>Black</i>	<i>RM-ED044</i>	AEP/UK
<b>KDL-60NX725</b>	<i>Black</i>	<i>RM-ED044</i>	AEP

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
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# 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 à faire ainsi.

## **WARNING!!**

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

## **POUR TRANSPORTER LE TÉLÉVISEUR**

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

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

## **ALERTE!!**

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

## **ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

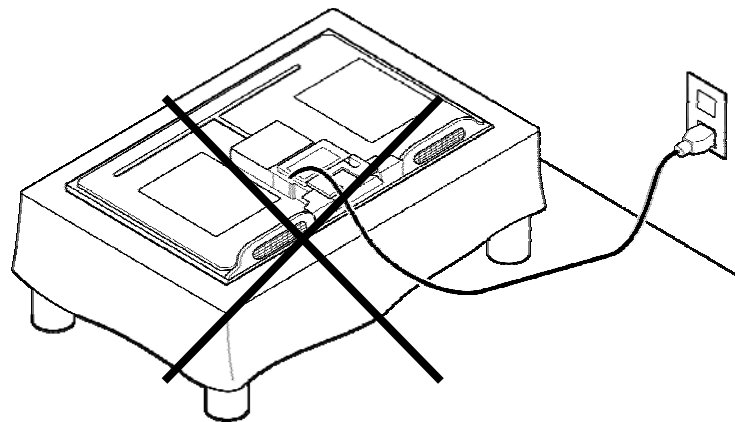
Les composants identifiés par une trame et par une marque ! sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel 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.

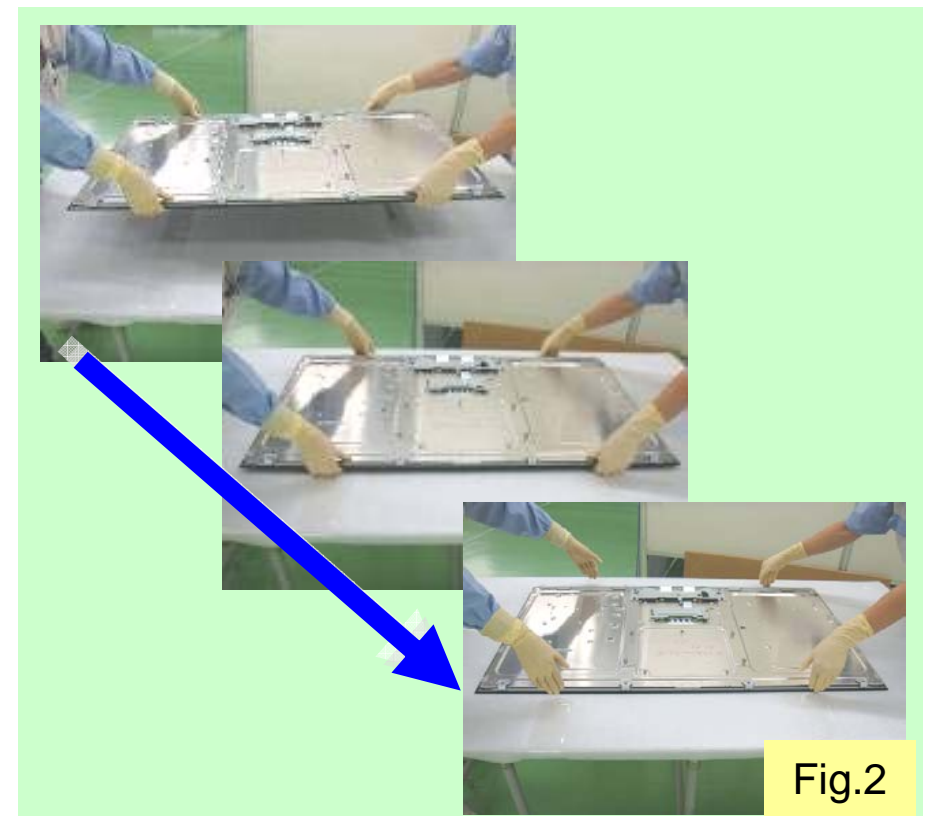
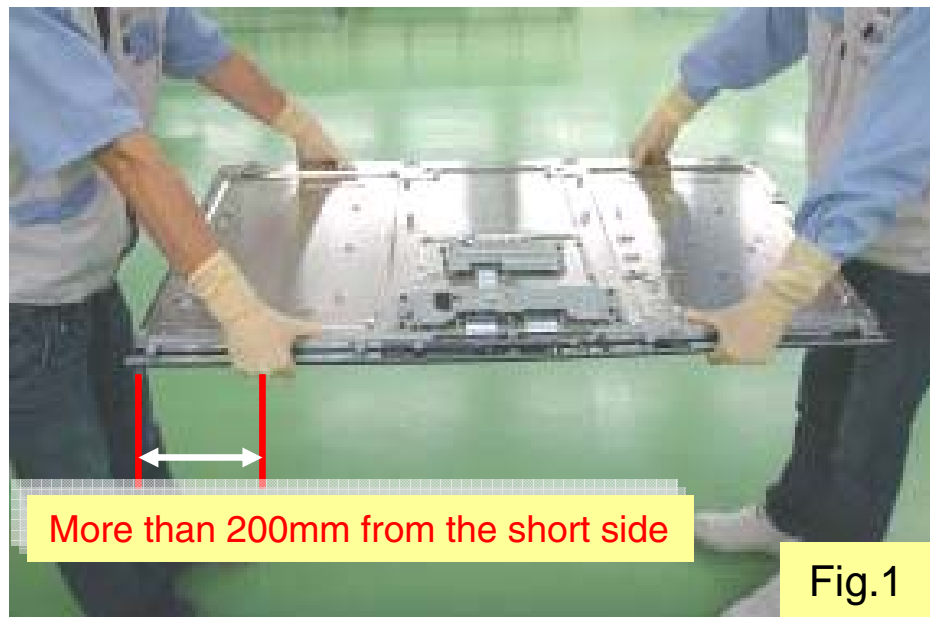
- 1) Do not press on the panel or frame edge to avoid the risk of electric shock.
- 2) Do not scratch or press on the panel with any sharp objects.
- 3) Do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
- 4) Do not expose the LCD panel to direct 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.



## HANDLING THE TENGO PANEL

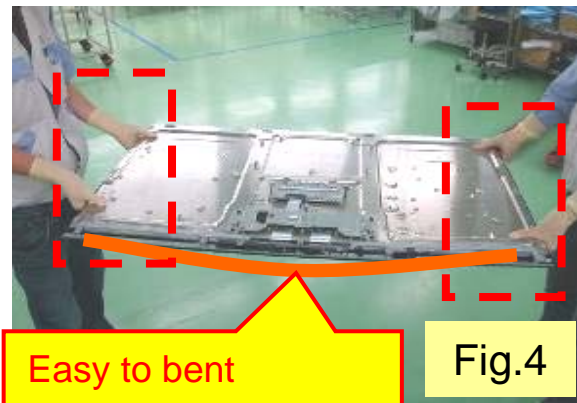
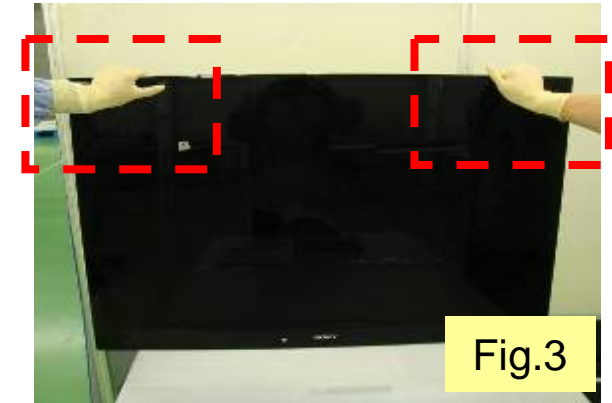
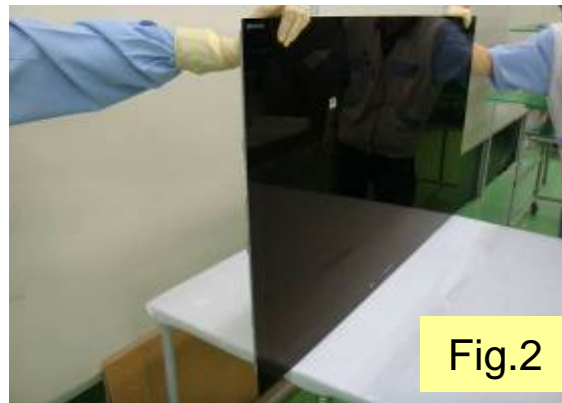
When handling the TENGO panel, please obey the following instructions.

- Please hold the long side more than 200mm from the short side. (Fig.1)
- When you ground Tenco panels beneath, ground it on the level slowly. (Fig.2)



By following handling, resin separation/cracking of glass may be occurred, “restrict” the following items.

1. Temporarily putting on lower cushion with bottom of glass. (Fig.1)
2. Ground with the bottom of glass. (Fig.2)
3. Grip as palm touches glass side. (Fig.3)
4. Hold the short side. (Fig.4)
5. Hold glass only when glass side up. (Fig.5)



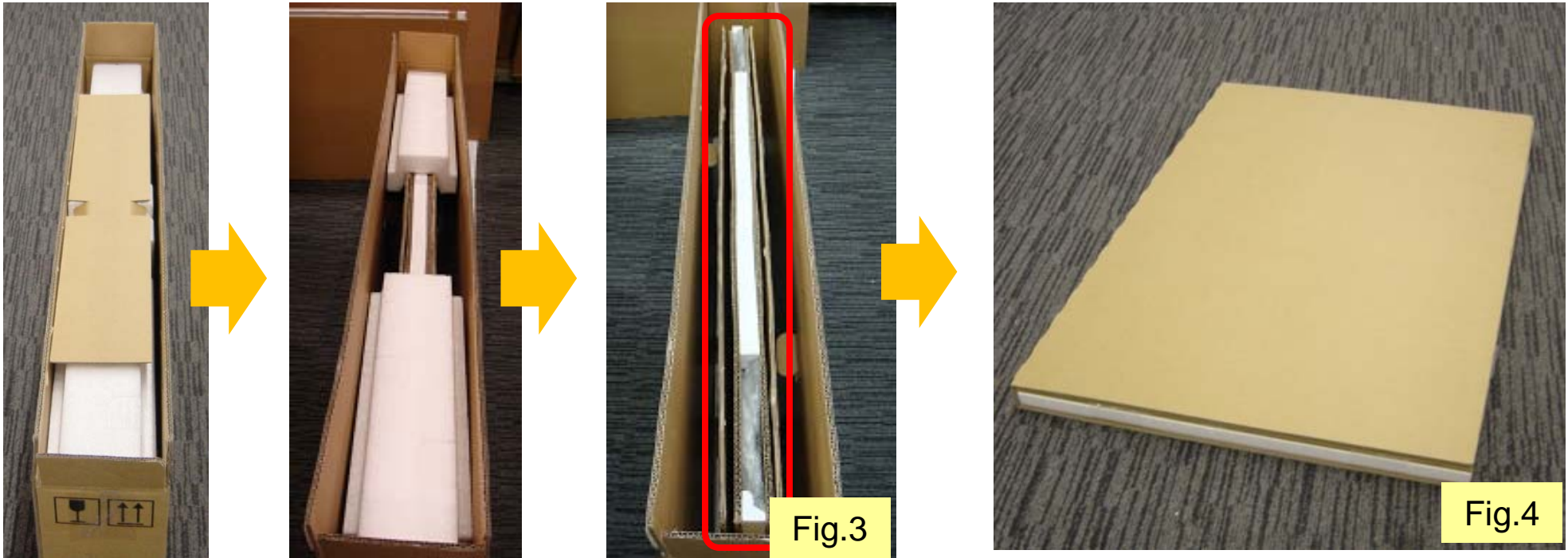


## NOTES ON REPLACING THE TENGO PANEL

When replacing the Tengo panel at service, please note the followings.

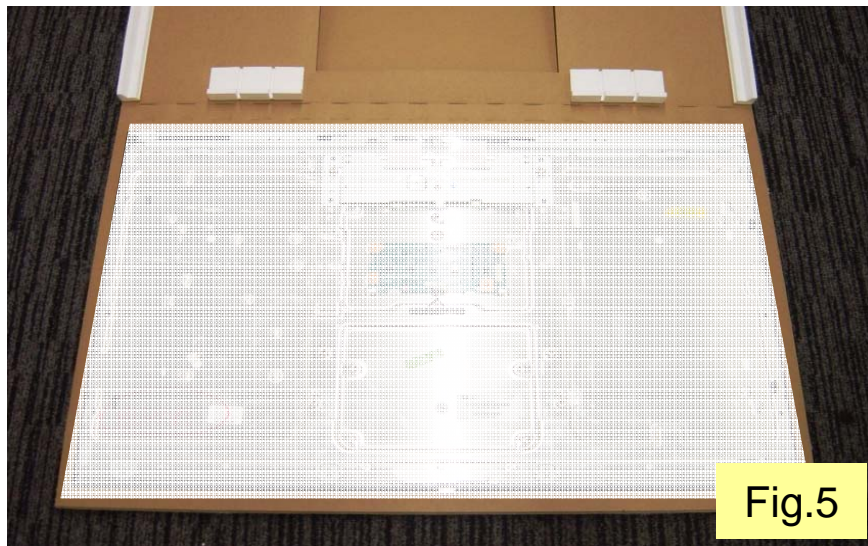
- Unpack the carton box, pull out the panel with reinforcing plates. (Fig.3)
- Together with reinforcing plates, place the panel with face down slowly. (Fig.4)

\* Please use the reinforcing plates as operating table.



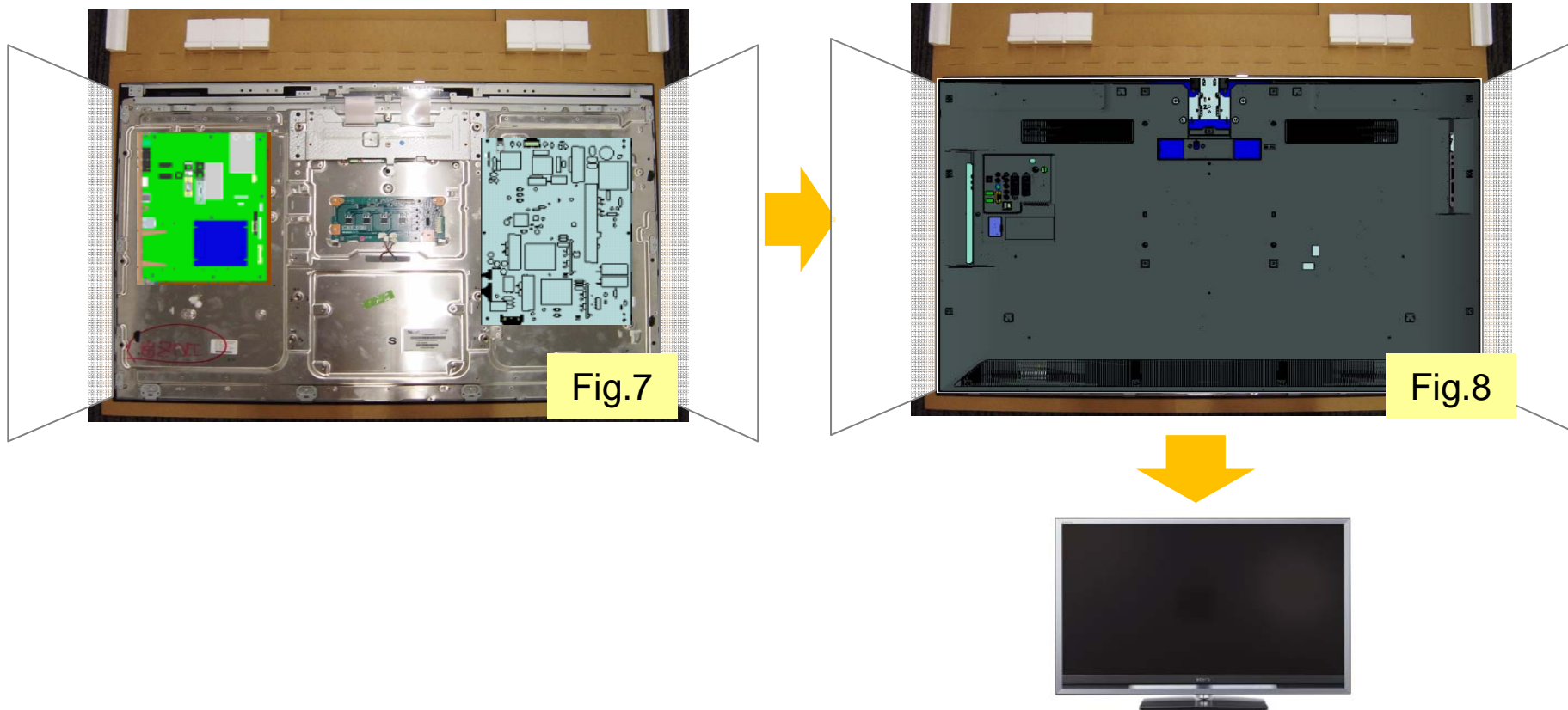
When replacing the Tengo panel at service, please note the followings.

- Unpack the package of Tengo panel. (Fig.5)
  - Cut protection bag at the center of the back of panel. (Fig.6)
- \* Please cut the protection bag carefully, the bag will be used for re-packing.



When replacing the Tenco panel at service, please note the followings.

- Assemble TV set with the new panel. (Fig.7)
- After assembly, attach Stand Unit and stand the TV up. (Fig.8)



When replacing the Tengo panel at service, please note the followings.

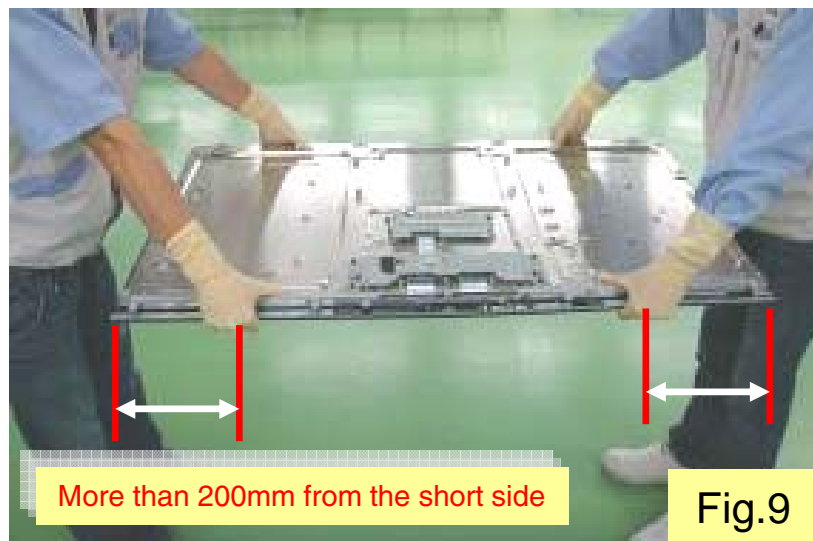
- Set the plastic bag on correct position of package and place the replaced panel on it. (Fig.9)

\* Handle the panel carefully as the instruction below.

- Align the bottom side of panel with cushions on the package. (Fig.10)

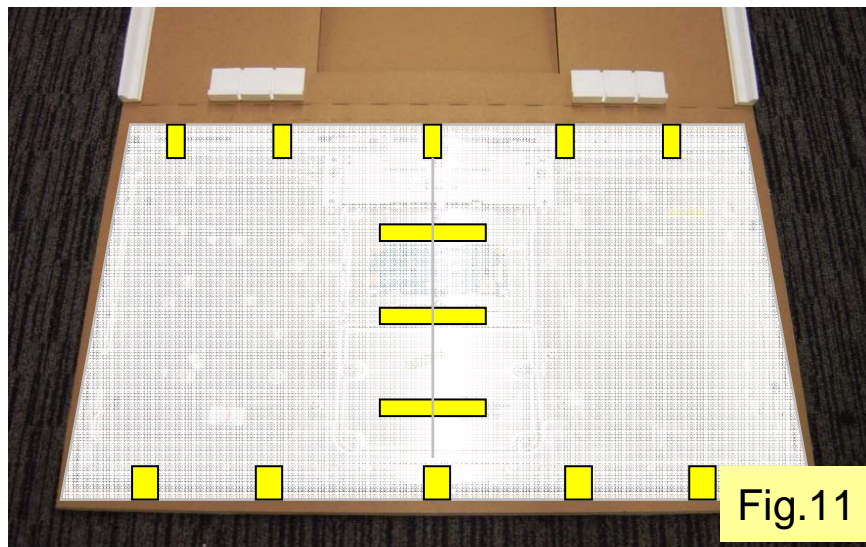
\* Please note that it may damage to the glass surface if you pack panel in the wrong orientation.

\* Please handle with care to prevent hitting the glass of panel to package materials.



When replacing the Tengo panel at service, please note the followings.

- Tape the plastic bag on the back of panel to protect panel surface. (Fig.11)
- \* Please make sure the orientation of the panel again. (T-CON board side is lower.)
- Repack the panel in the original carton box.



## HANDLING THE FFC

When you insert / pull out FFC, please grasp a reinforcement board and main body of FFC.



<GOOD>



<NG>

FFC can reverse insertion to connector of B board.  
If reverse insertion FFC, all pins short-circuit, and board is broken.



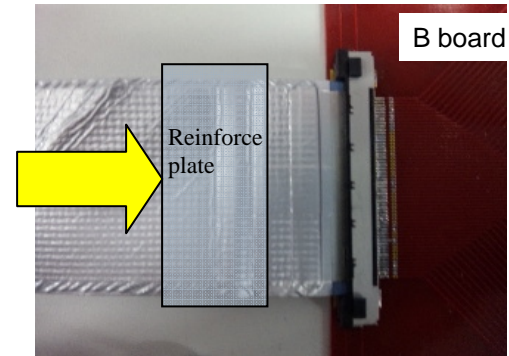
<GOOD>



<NG>

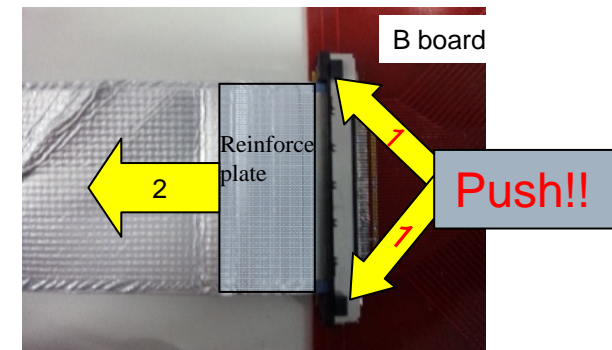
< Insertion >

Please hold reinforcement board and plunge it to the depths.



<Pull out>

Please pull out FFC **while** pushing the button of both ends at the same time.



# 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:

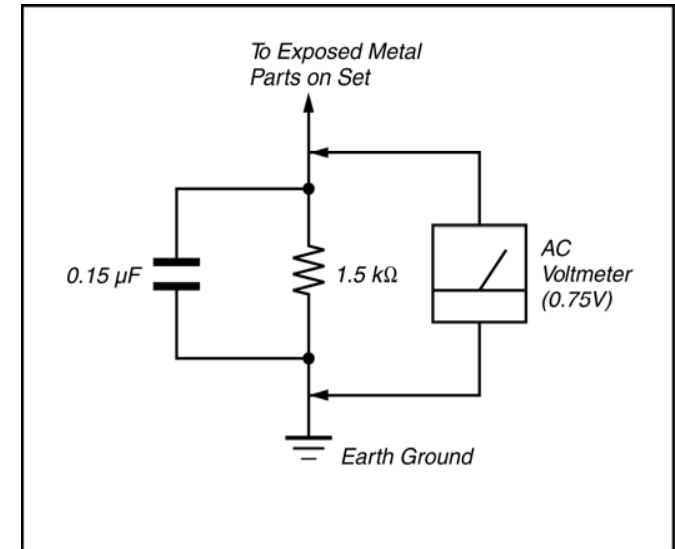
1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground 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).

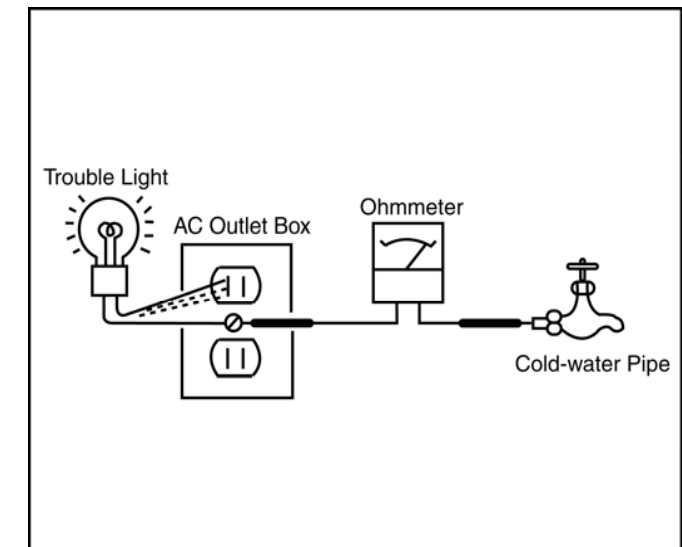


Figure B. Checking for earth ground.



# 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

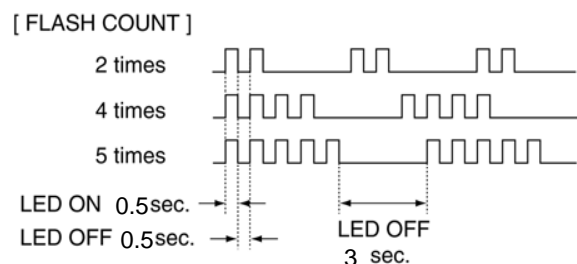
When an error occurs, the STANDBY LED will flash a set number of times to indicate the possible cause of the problem.

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 Power Over Voltage Protection
3	DC_ALERT	DC_ALERT
	AUD_PROT	Audio Abnormal Detection
4	BALANCER	Panel Balancer Error
5	TCON_ERR	Not used
	HFR_ERR	HFR Error
	P_ID_ERR	Panel ID NVM Error
6	BACKLITE	Back Light Error (Panel Inverter)
7	TMP_ERR	Thermal Error
8	-	Software Error
9	-	Not used
10	EMIT_ERR	Emitter Error
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 +)



# 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 removal rear cover, damaged with rear cover and power supply cord.

Removal the rear cover and power supply cord, please refer to “**APPENDIX-1**”.

Note: Metal type Rear Cover is used in these models.

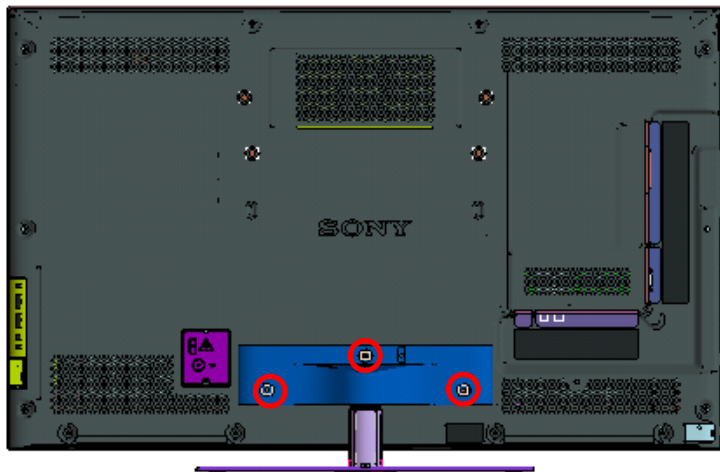
When handle the Rear Cover, please pay special attention to the sharp edges due to no curing finish.

When working, wearing gloves is recommended.

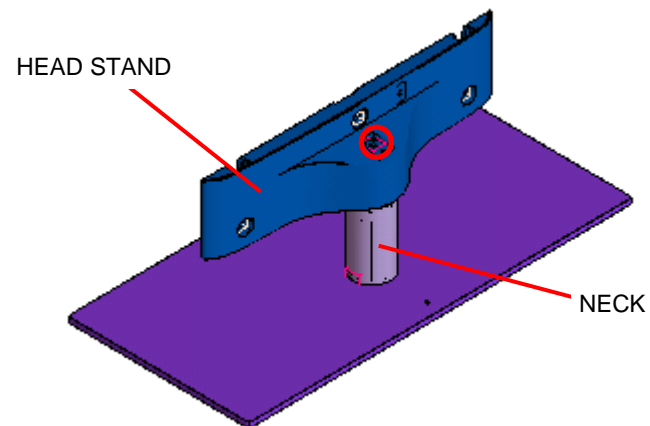
Location of the sharp edges, please refer to “**APPENDIX-2**”.

## 1-1. KDL-40NX720/723/725

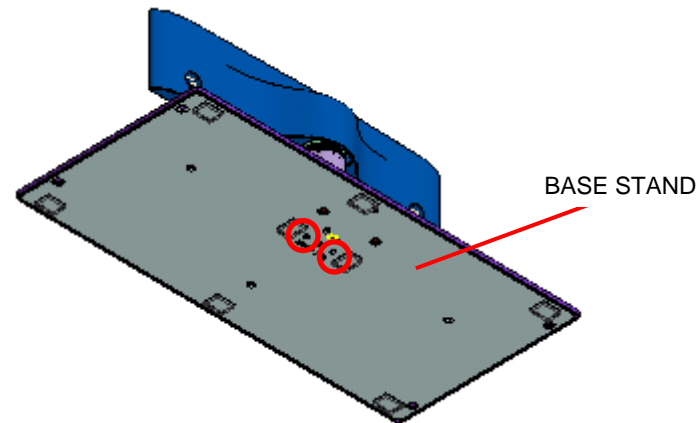
### 1-1-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



3 Screws (SCREW, +PSW M5X16) – Inside bag, screw assy



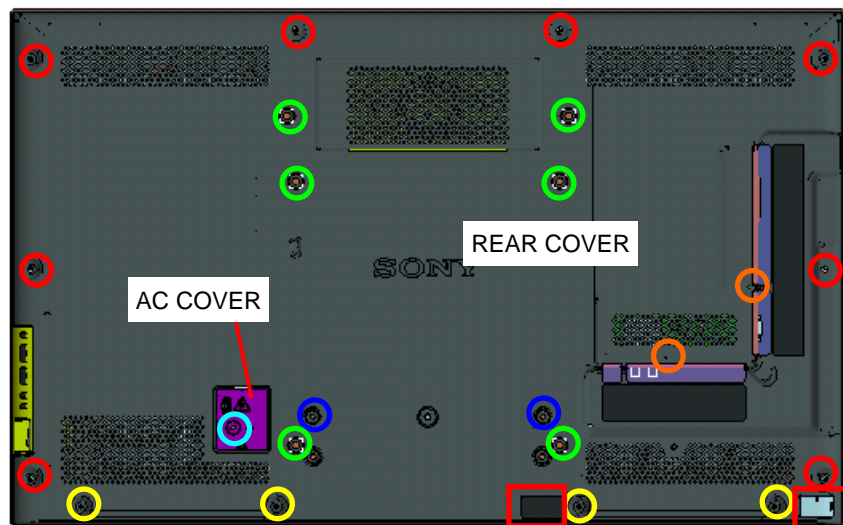
1 Screw (USER SCREW ST) – Inside bag, screw assy



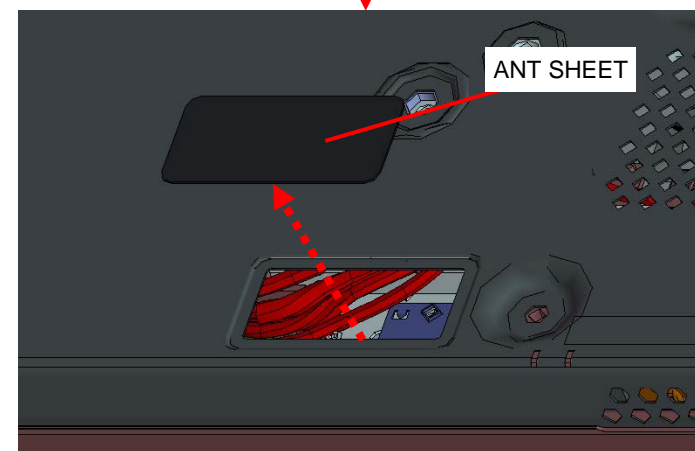
2 Screws (USER SCREW ST) – Inside bag, screw assy

## 1-1. KDL-40NX720/723/725

### 1-1-2. REAR COVER, AC COVER, ANT COVER AND ANT SHEET

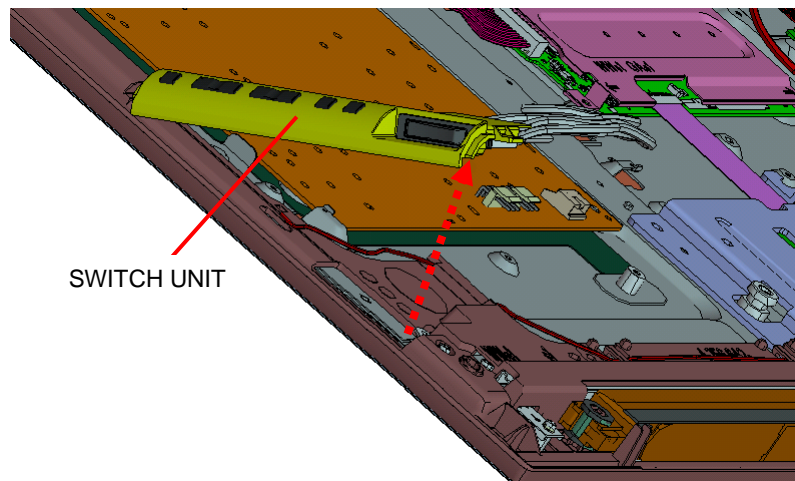
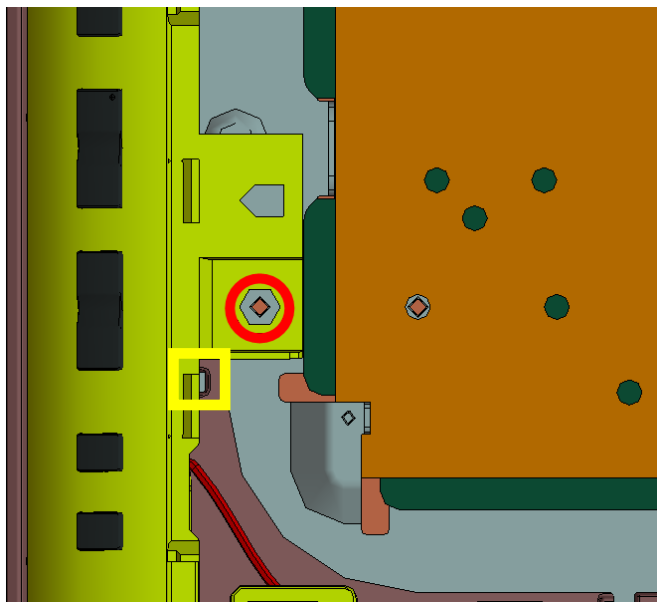


- 8 Screws (SCREW, +PWH M3X8) P/N: FX0020801
- 4 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 6 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006302
- 2 Screws (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0012779
- 2 Screws (JOINT, STAND) P/N: FX0002101
- 1 Screw (SCREW, +PSW M3X6 W12) P/N: FX0001901



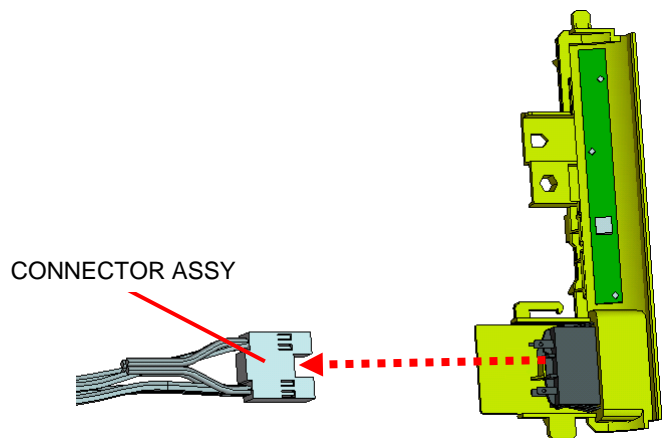
1-1. KDL-40NX720/723/725

1-1-3. SWITCH UNIT AND POWER SWITCH

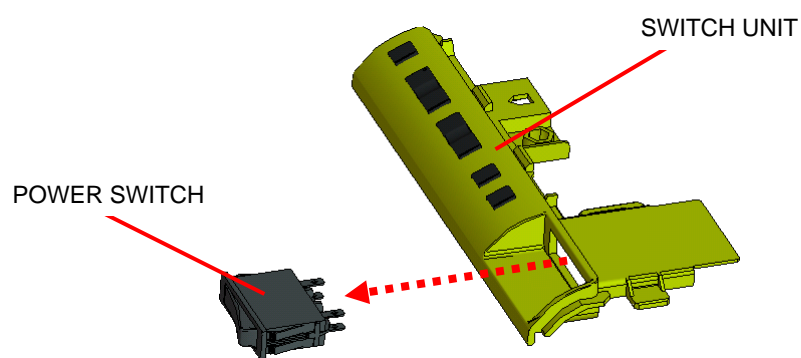


SWITCH UNIT

1 Screw (SCREW, +PWH M3X8) P/N: FX0020801



CONNECTOR ASSY

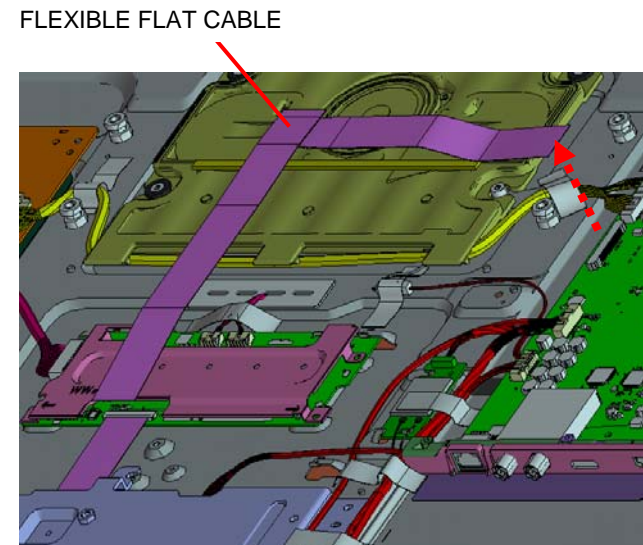
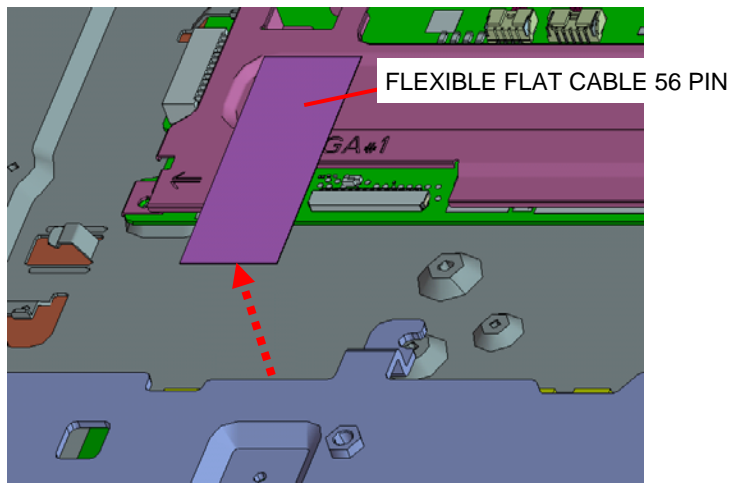
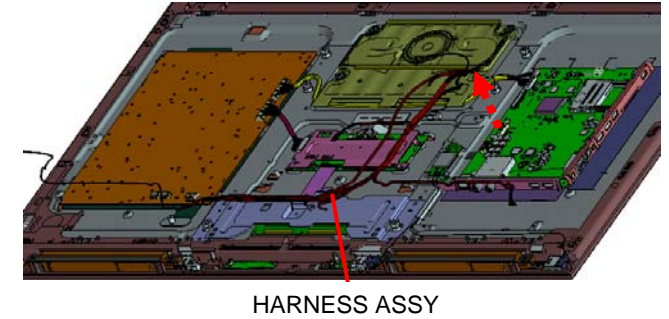
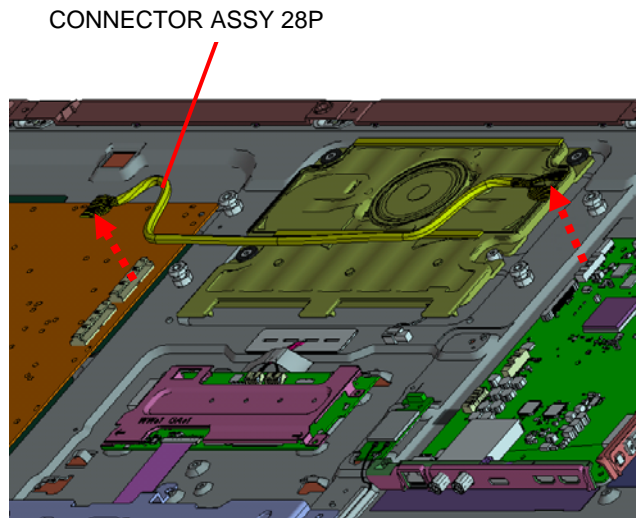
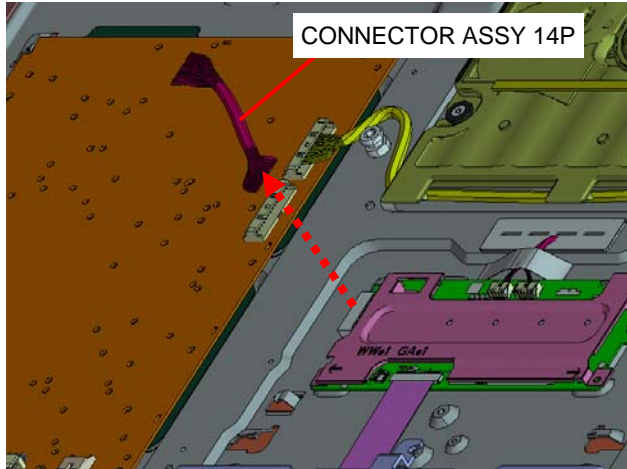


POWER SWITCH

SWITCH UNIT

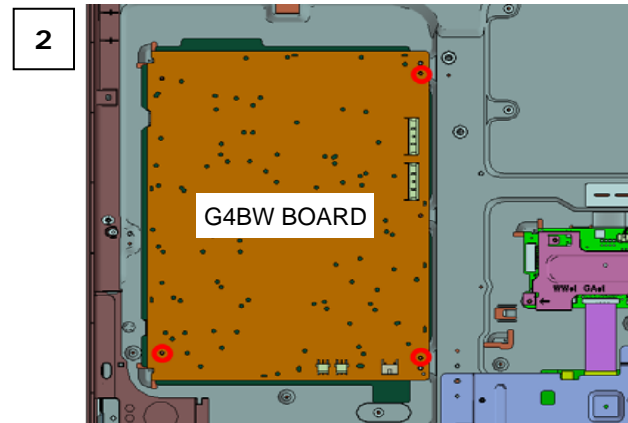
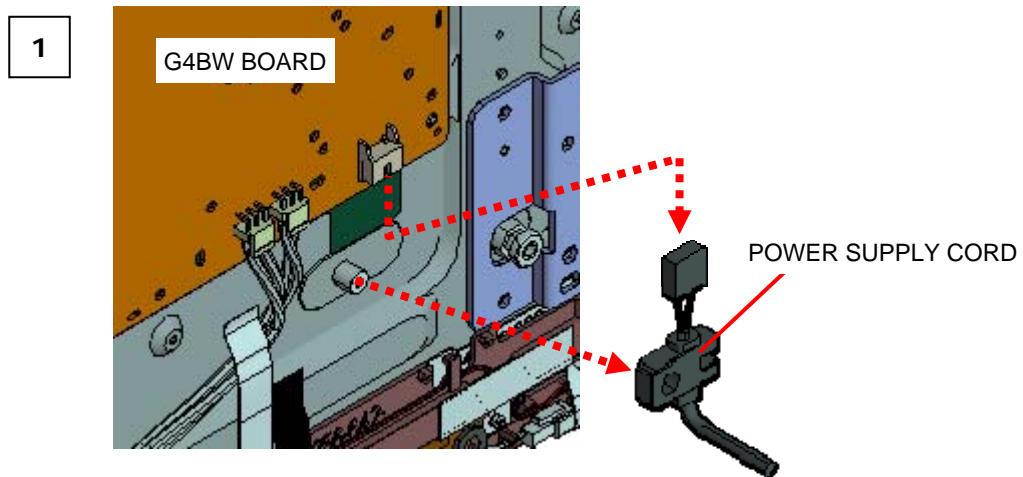
1-1. KDL-40NX720/723/725

1-1-4. HARNESS

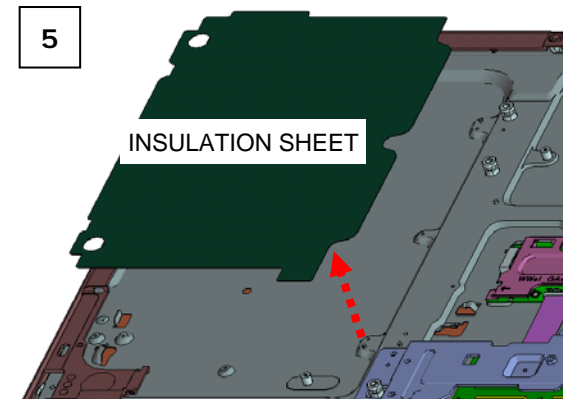
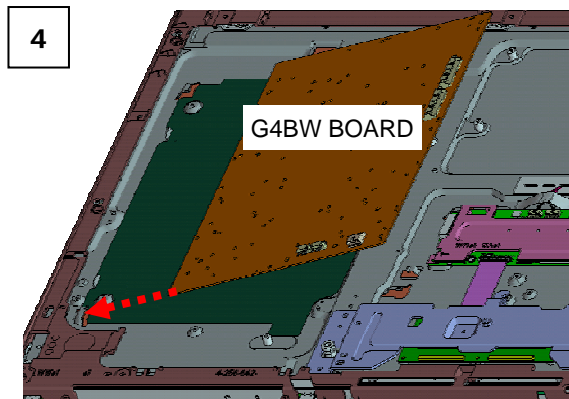
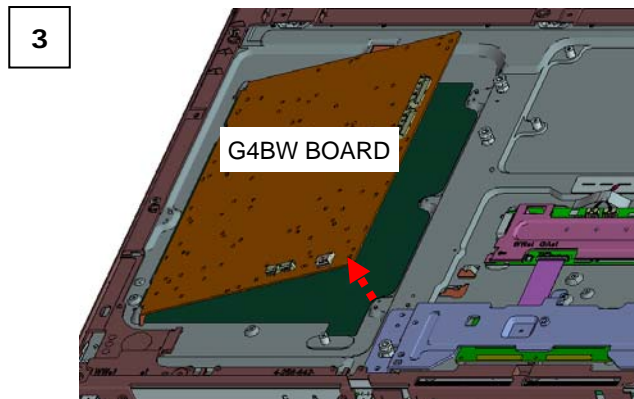


### 1-1. KDL-40NX720/723/725

#### 1-1-5. POWER SUPPLY CORD AND G4BW BOARD



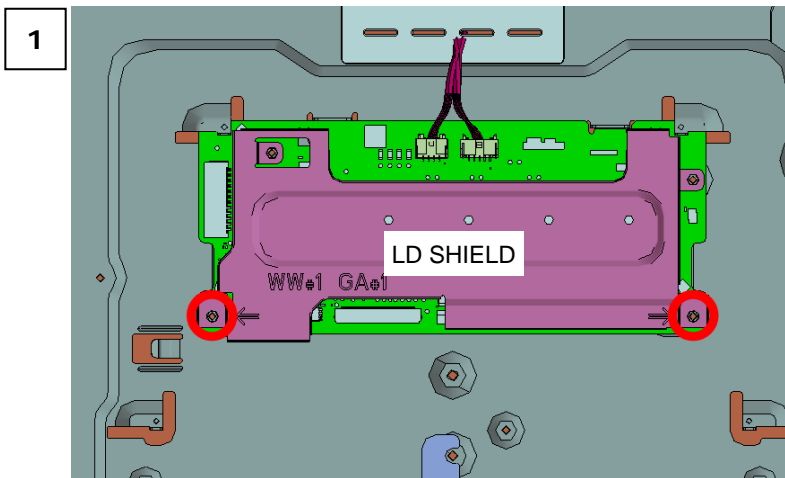
3 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



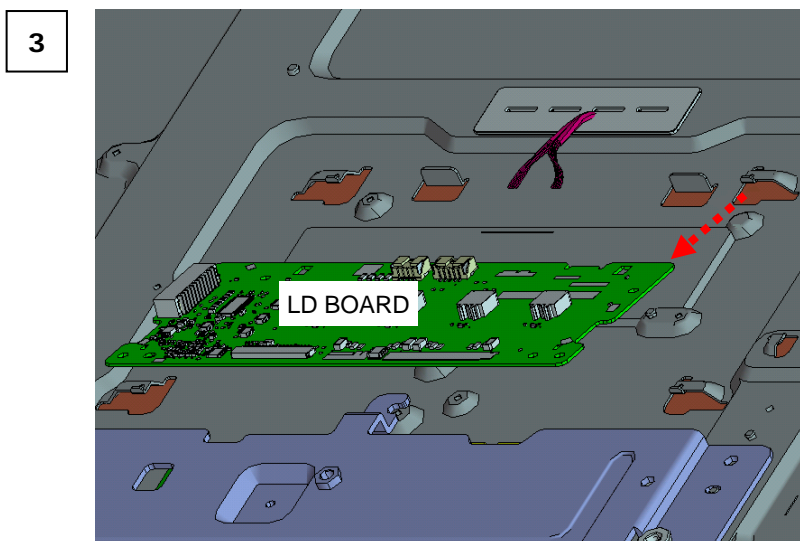
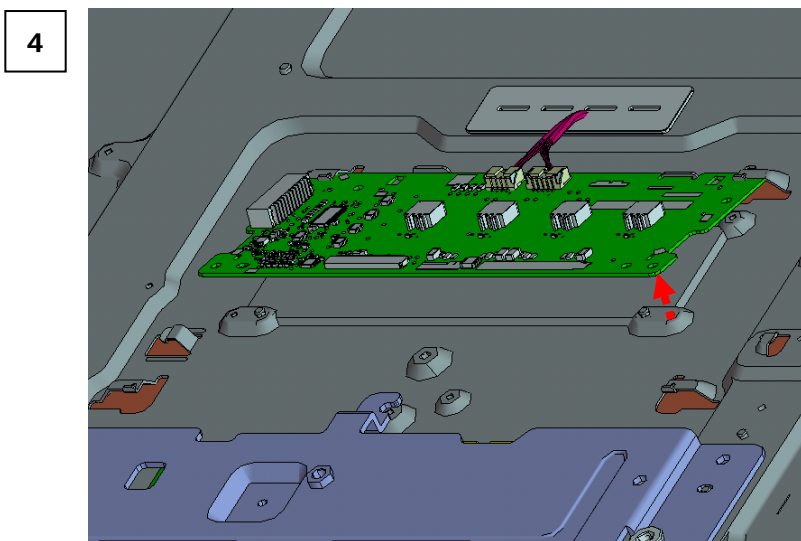
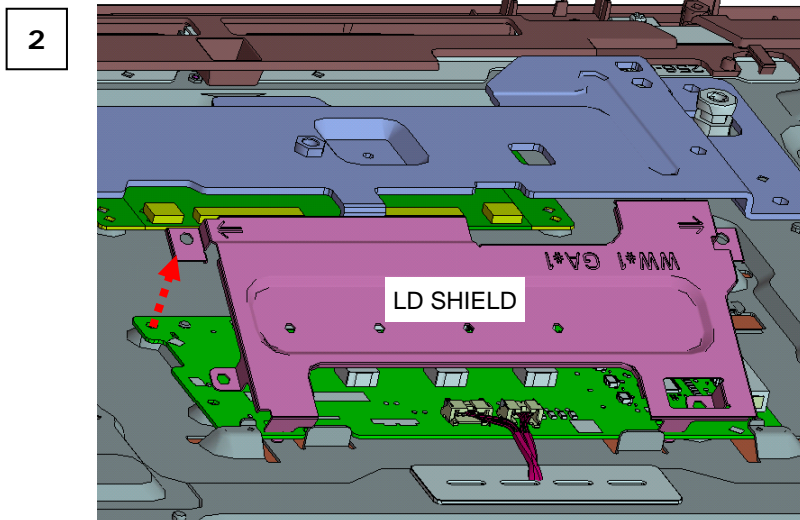


### 1-1. KDL-40NX720/723/725

#### 1-1-6. LD BOARD

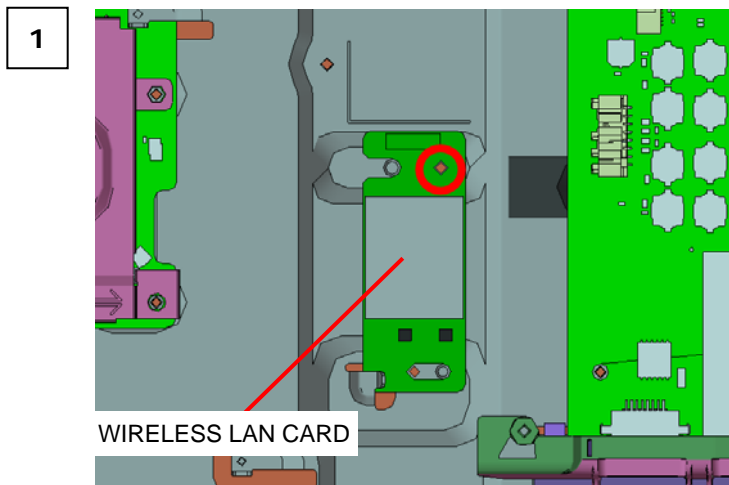


2 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

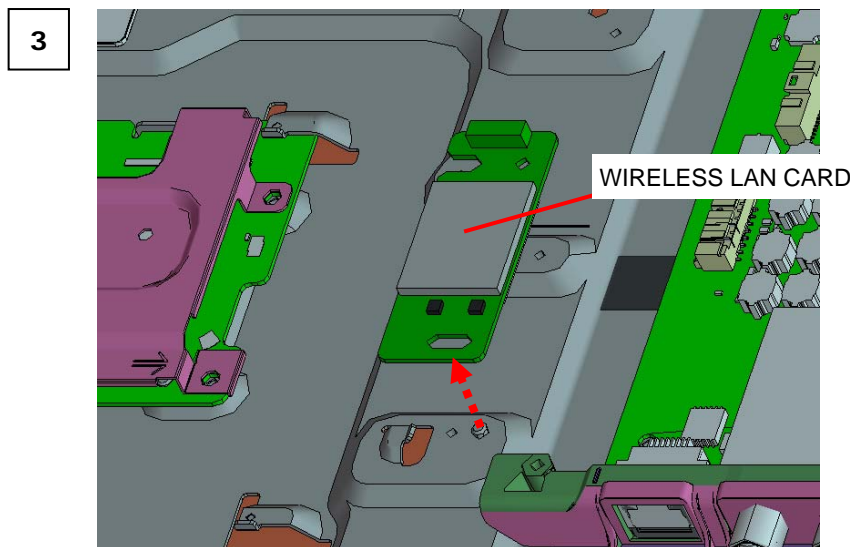
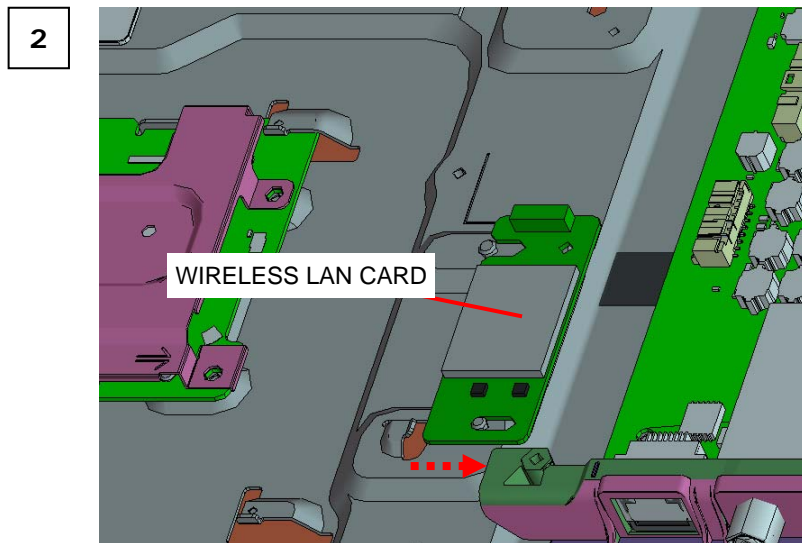


### 1-1. KDL-40NX720/723/725

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

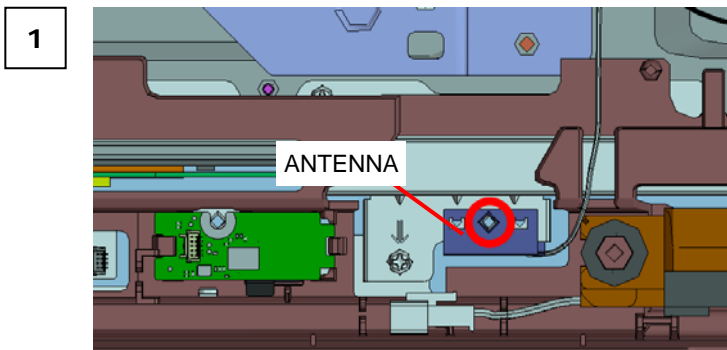


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

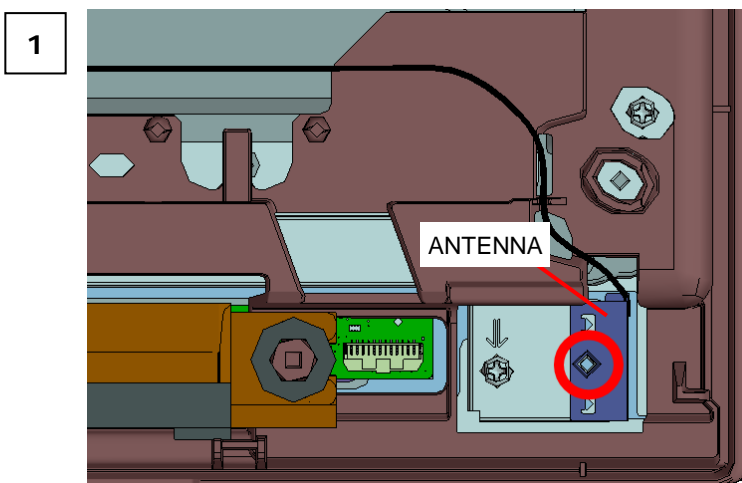
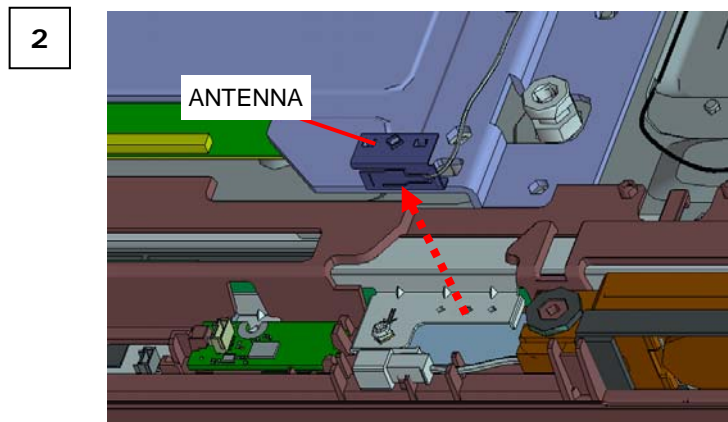


### 1-1. KDL-40NX720/723/725

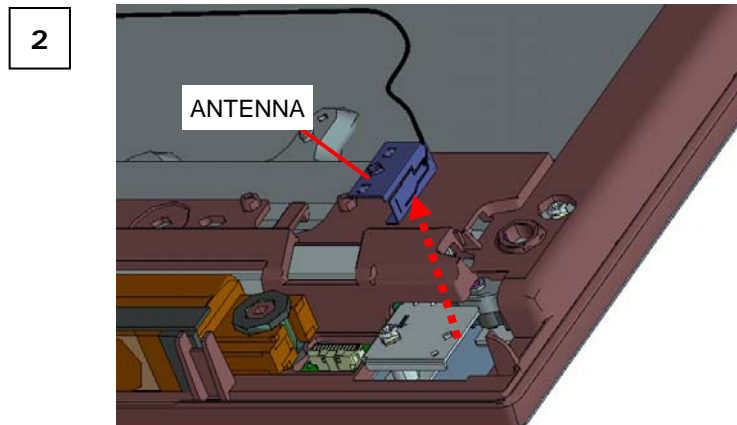
#### 1-1-8. ANTENNA



1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

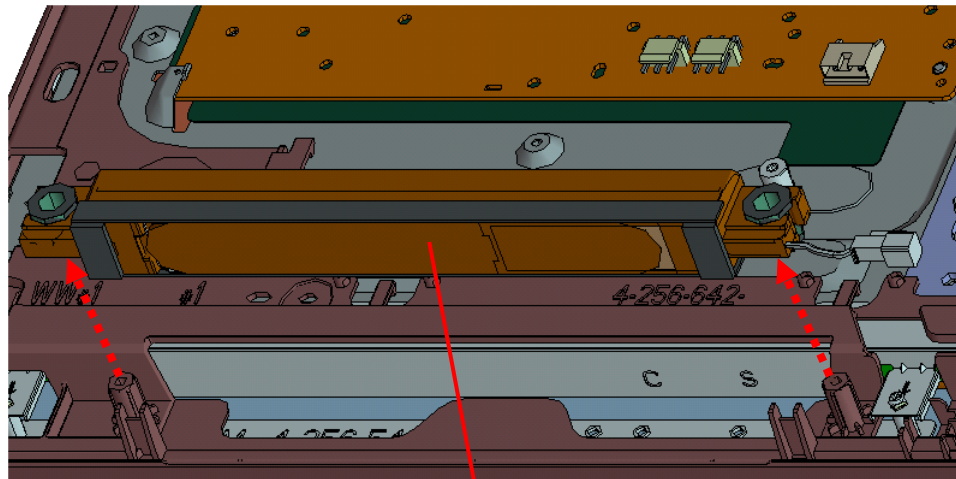


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



1-1. KDL-40NX720/723/725

1-1-9. SPEAKER BOX ASSY

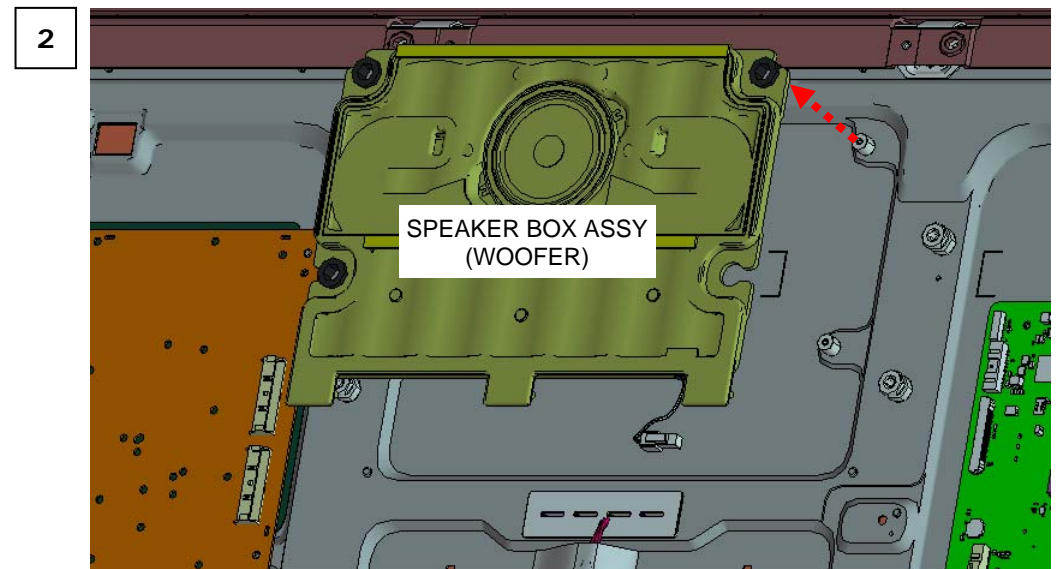
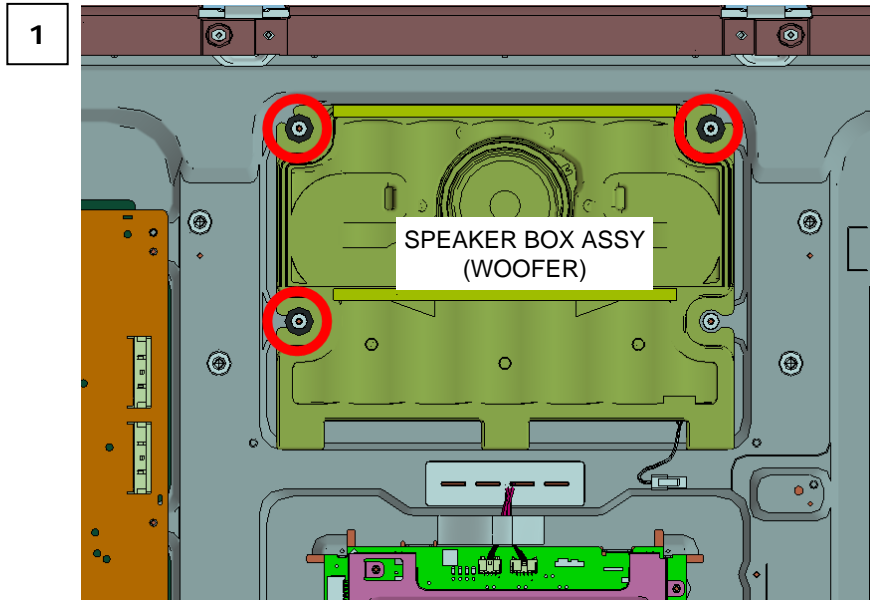


SPEAKER BOX ASSY



1-1. KDL-40NX720/723/725

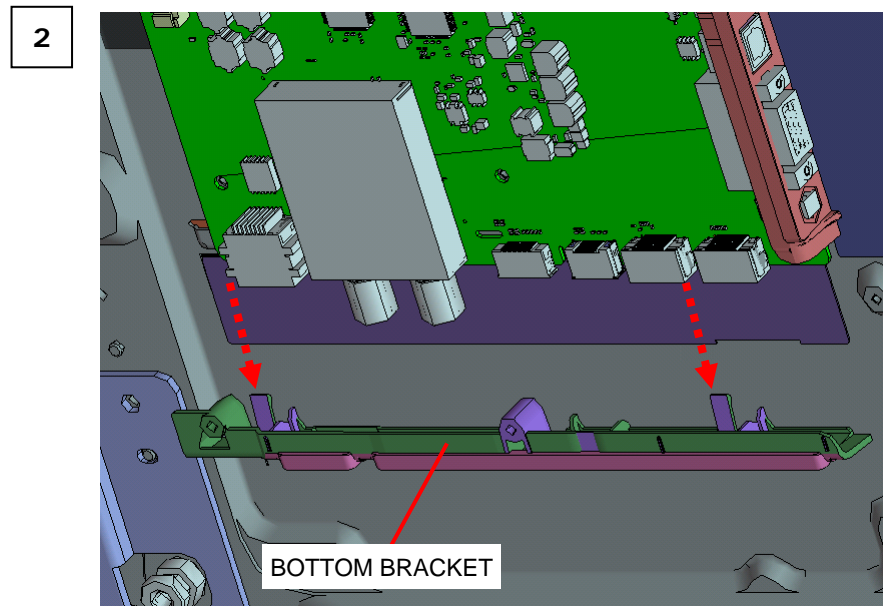
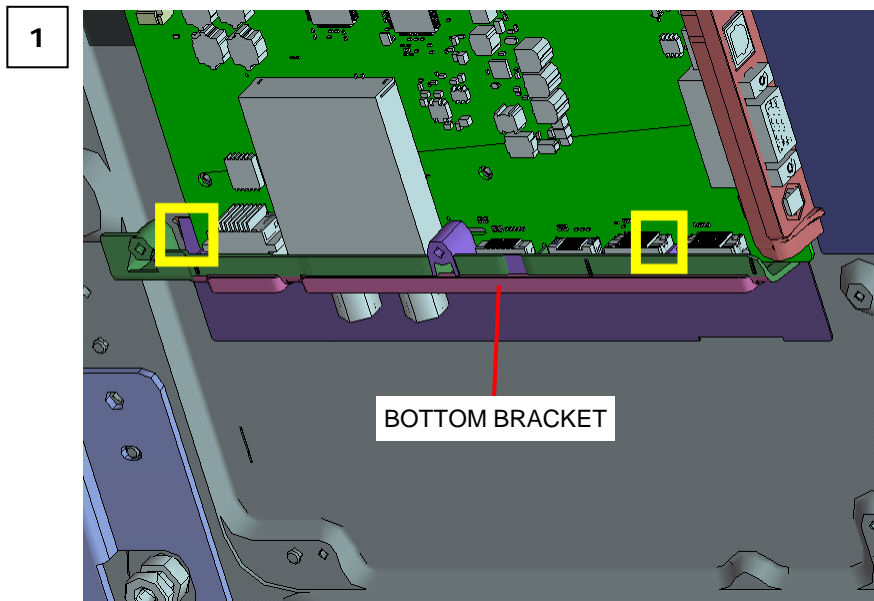
1-1-10. SPEAKER BOX ASSY (WOOFER)



3 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901

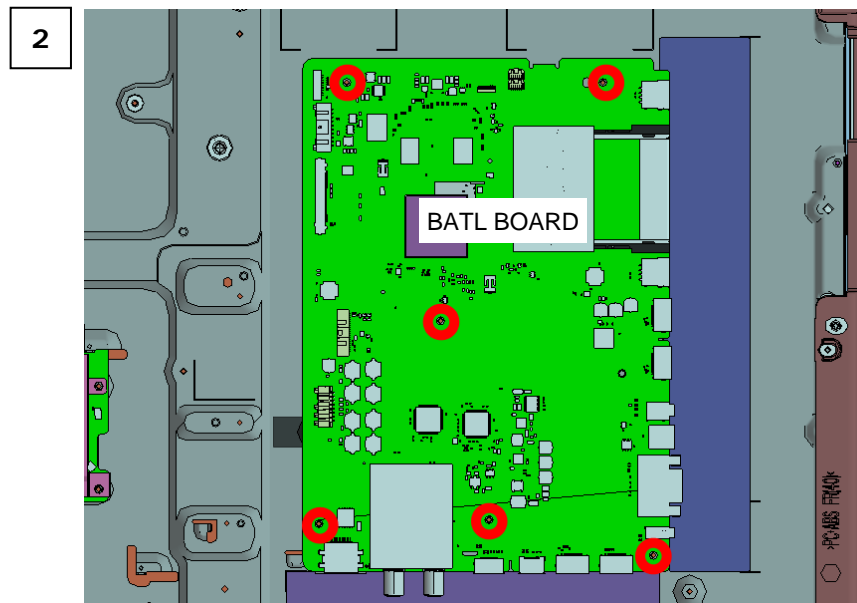
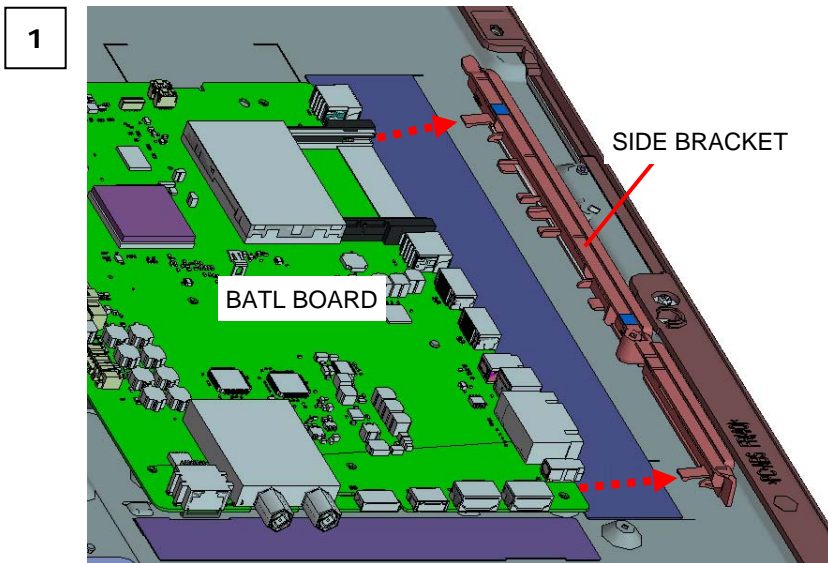
1-1. KDL-40NX720/723/725

1-1-11. BOTTOM BRACKET

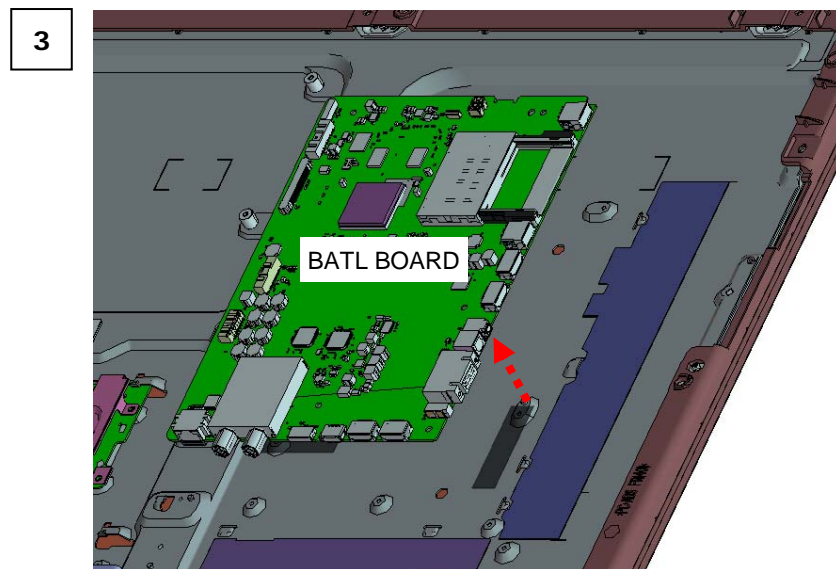


### 1-1. KDL-40NX720/723/725

#### 1-1-12. SIDE BRACKET AND BATL BOARD

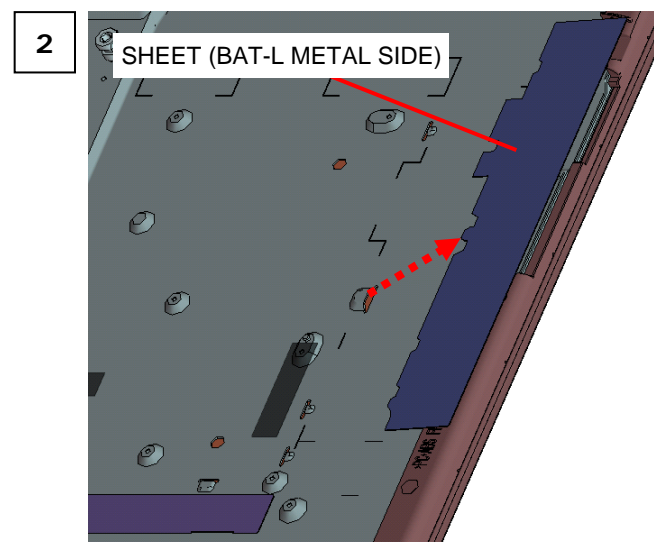
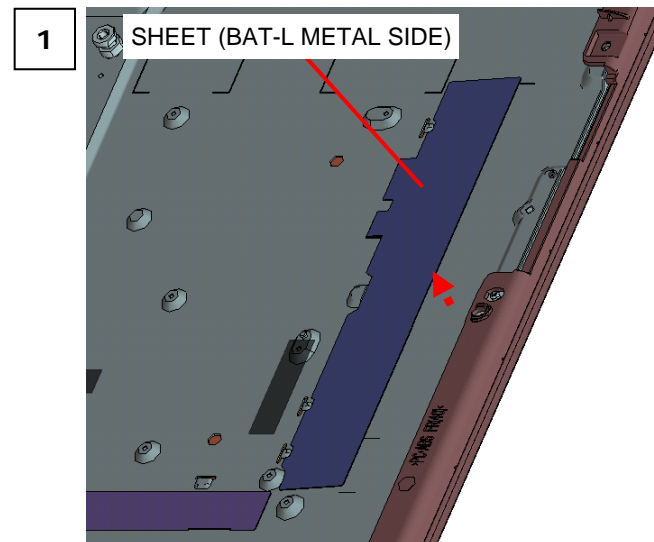
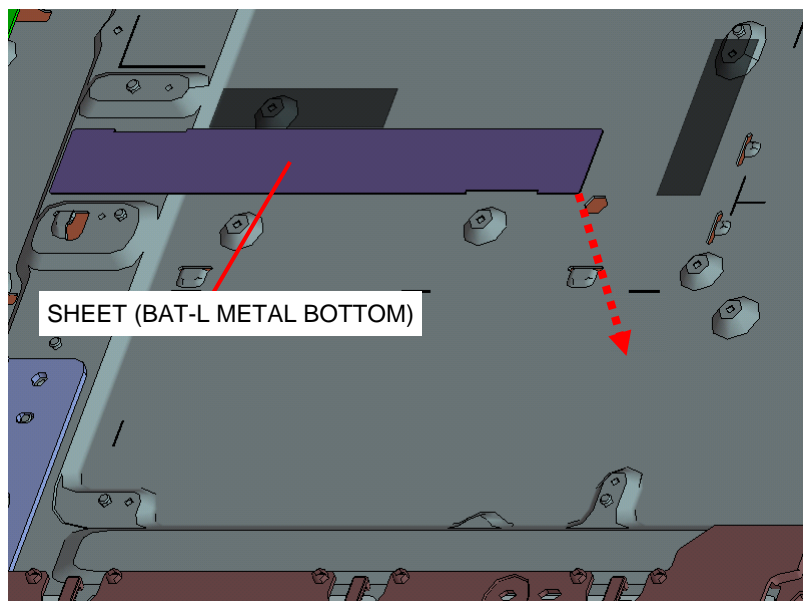


6 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



## 1-1. KDL-40NX720/723/725

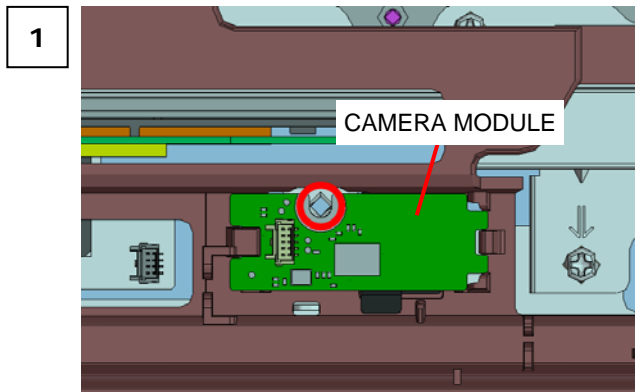
## 1-1-13. SHEET



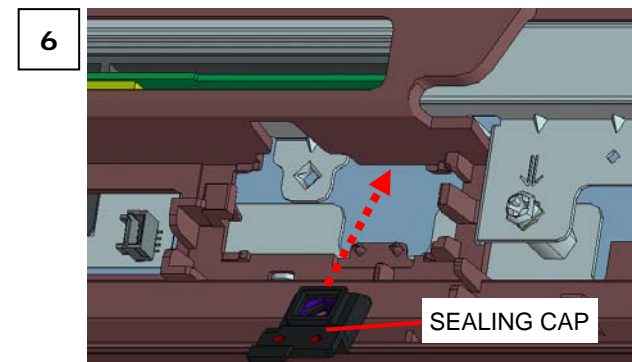
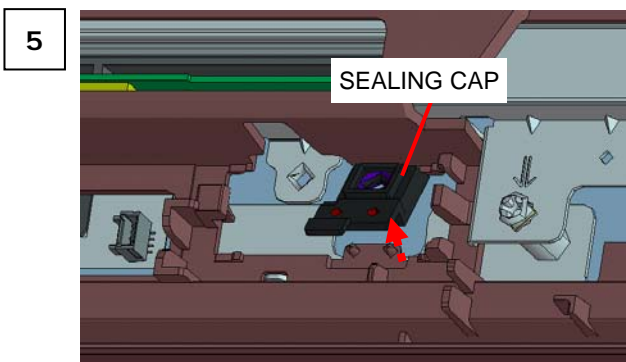
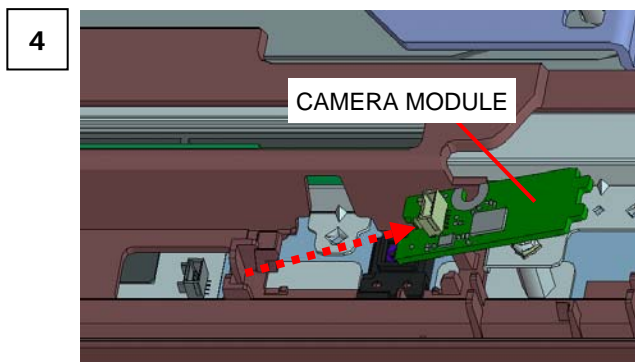
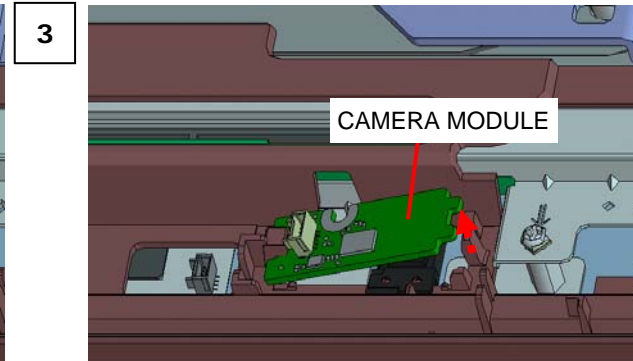
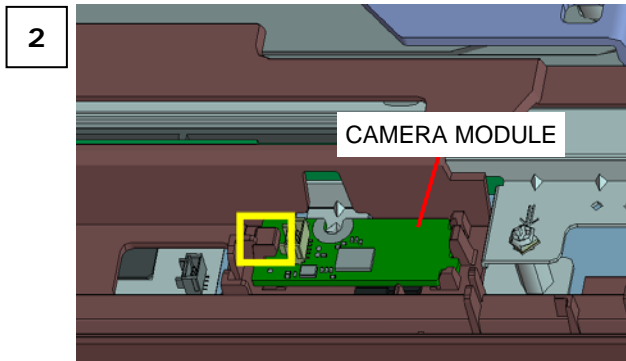


### 1-1. KDL-40NX720/723/725

#### 1-1-14. CAMERA MODULE AND SEALING CAP(CAMERA)

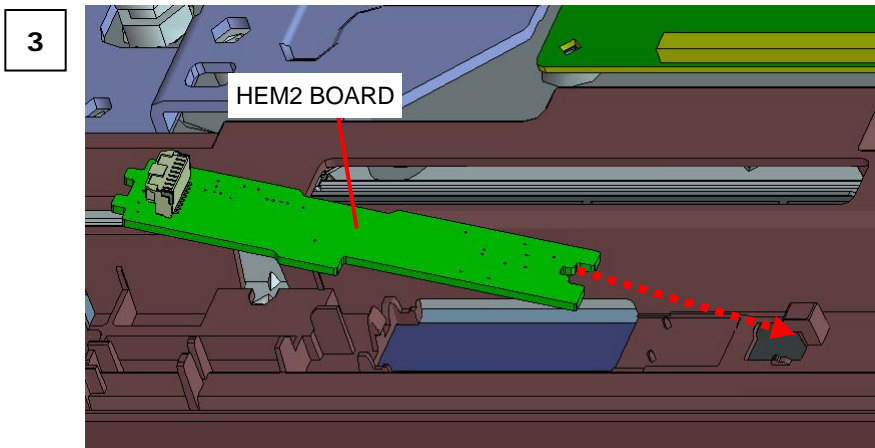
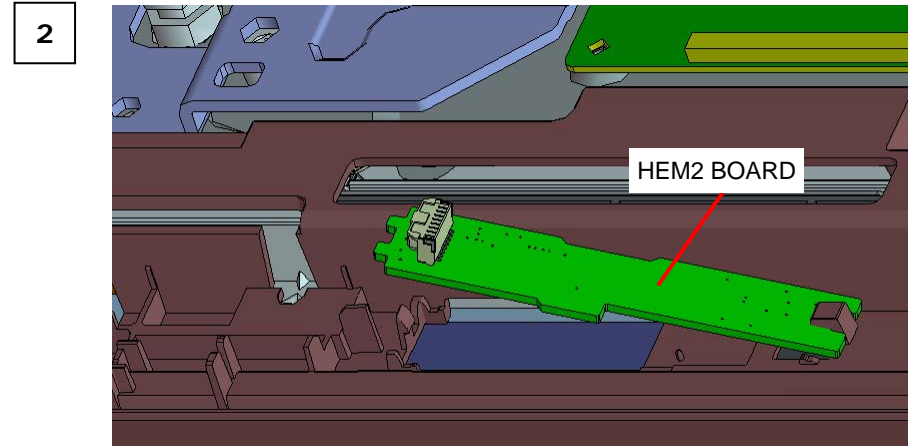
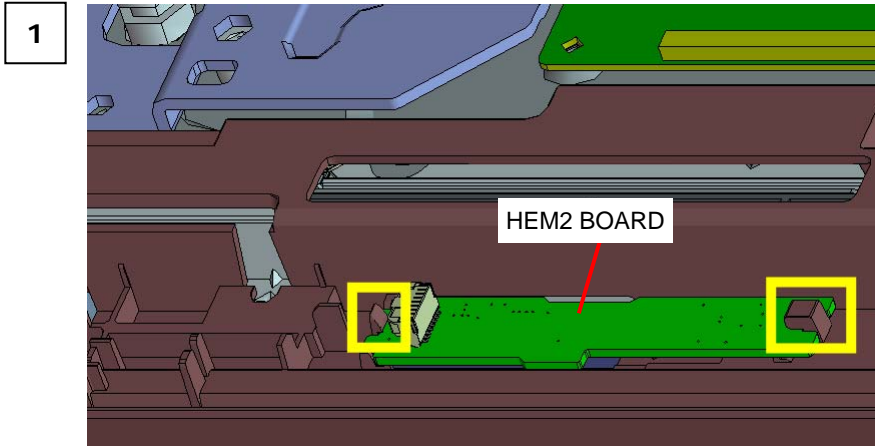


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



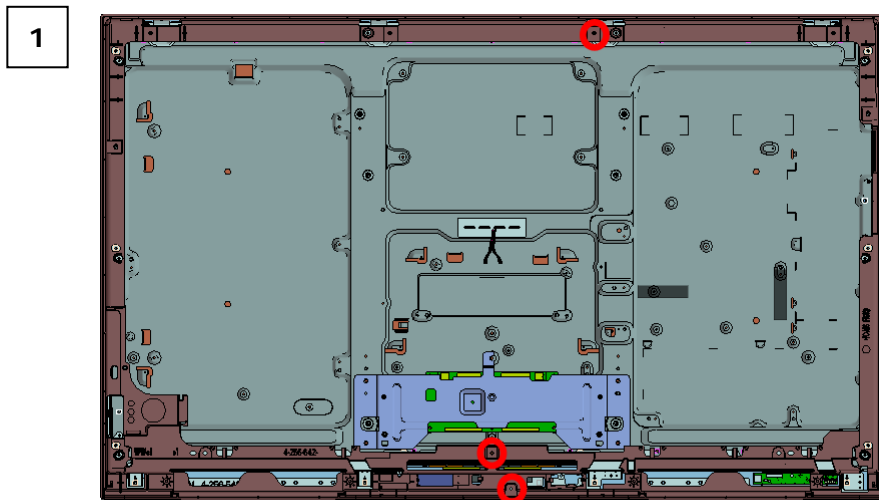
1-1. KDL-40NX720/723/725

1-1-15. HEM2 BOARD

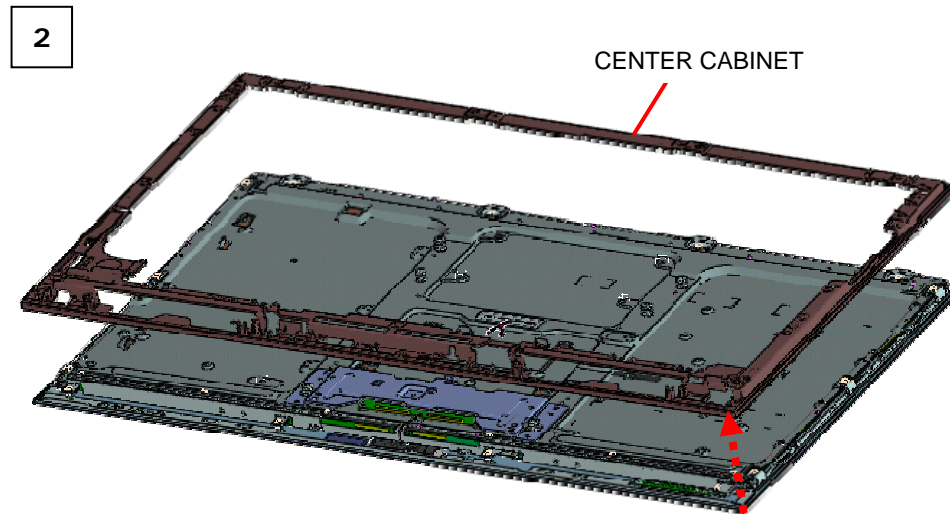


1-1. KDL-40NX720/723/725

1-1-16. CENTER CABINET

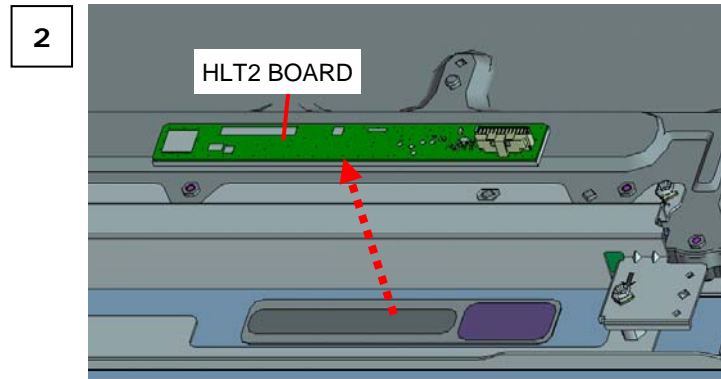
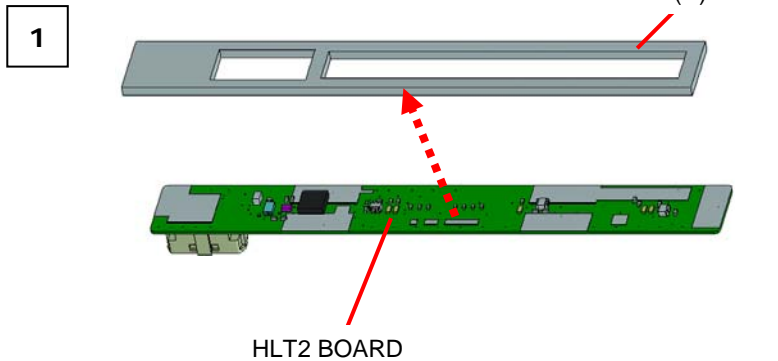
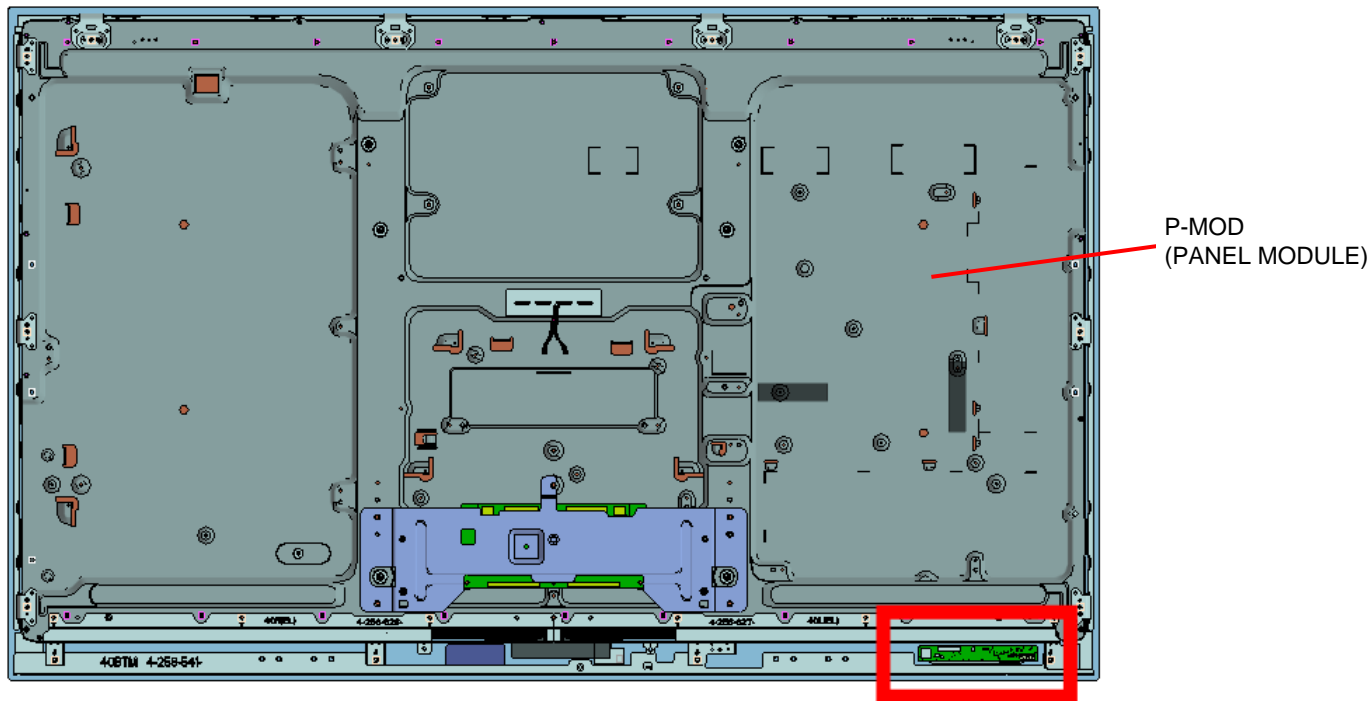


3 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901



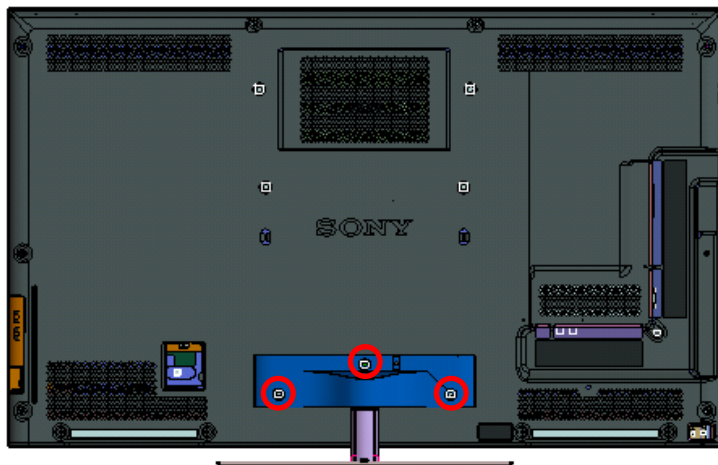
### 1-1. KDL-40NX720/723/725

#### 1-1-17. HLT2 BOARD, PWB (H) TAPE AND PANEL MODULE

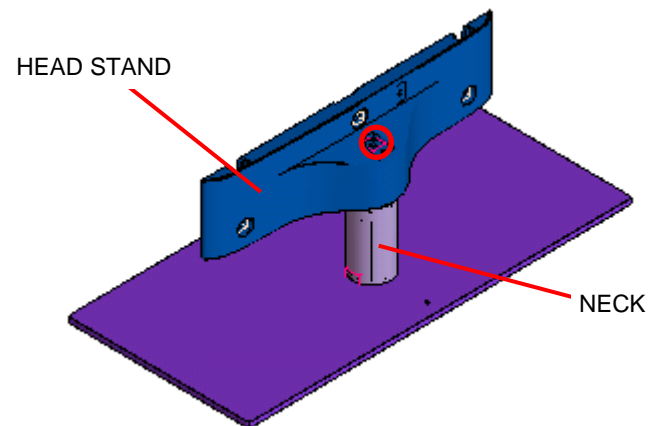


## 1-2. KDL-46NX720/723/725

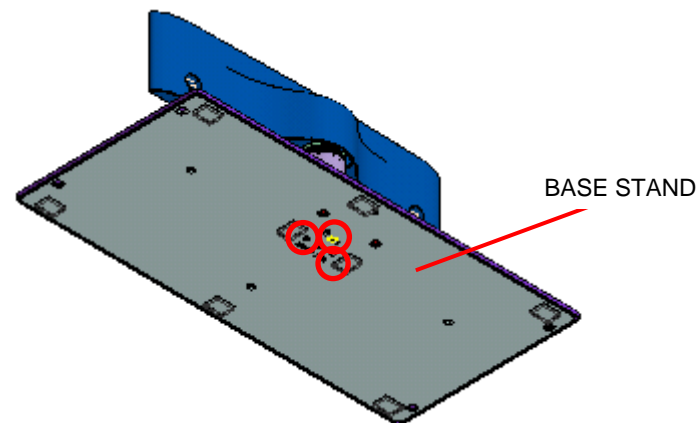
### 1-2-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



3 Screws (SCREW, +PSW M5X16) – Inside bag, screw assy



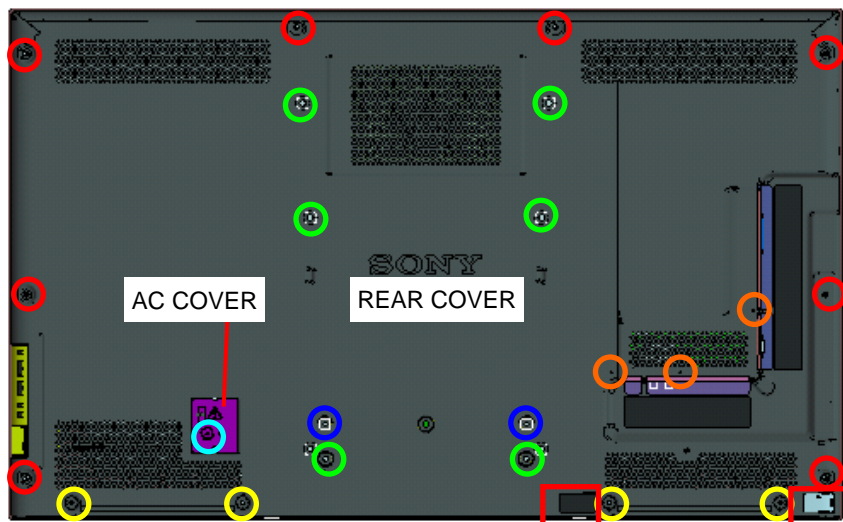
1 Screw (USER SCREW ST) – Inside bag, screw assy



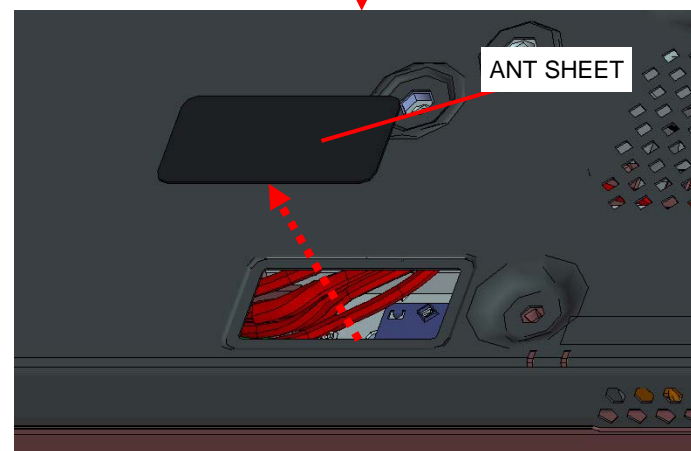
3 Screws (USER SCREW ST) – Inside bag, screw assy

## 1-2. KDL-46NX720/723/725

### 1-2-2. REAR COVER, AC COVER, ANT COVER AND ANT SHEET

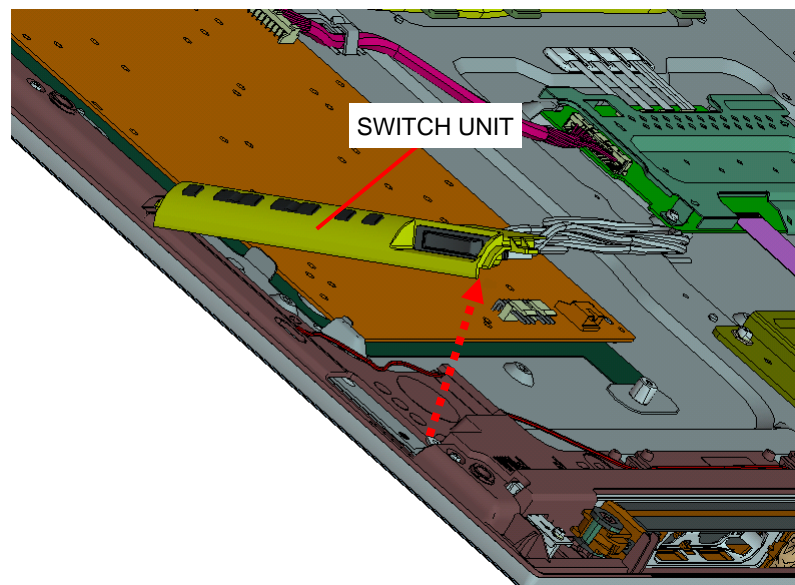
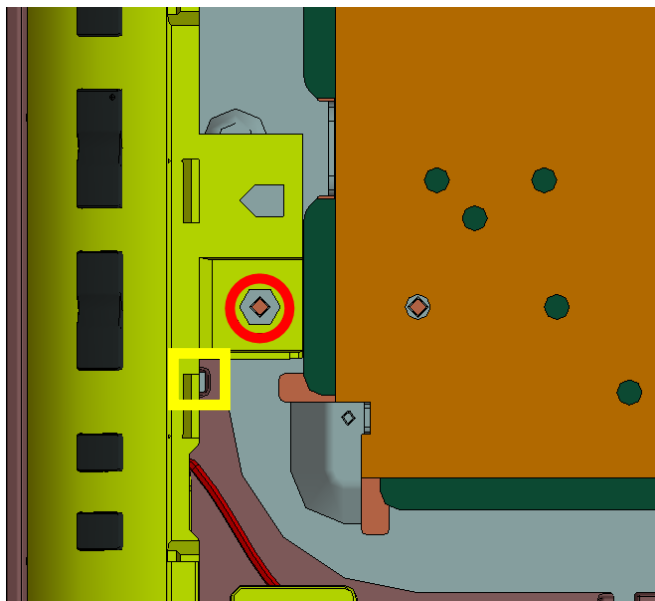


- 8 Screws (SCREW, +PWH M3X8) P/N: FX0020801
- 4 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 6 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006302
- 3 Screws (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0012779
- 2 Screws (JOINT, STAND) P/N: FX0002101
- 1 Screw (SCREW, +PSW M3X6 W12) P/N: FX0001901

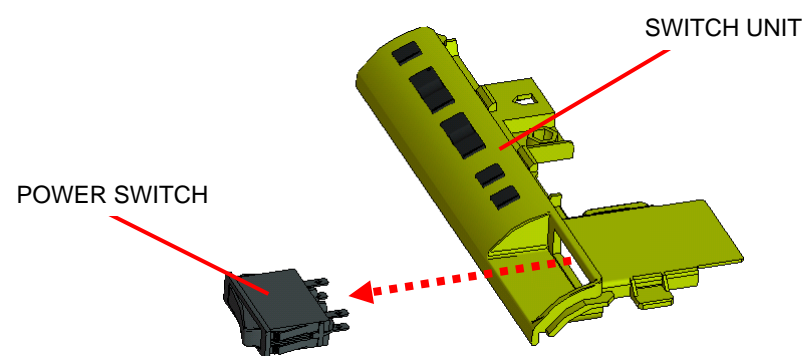
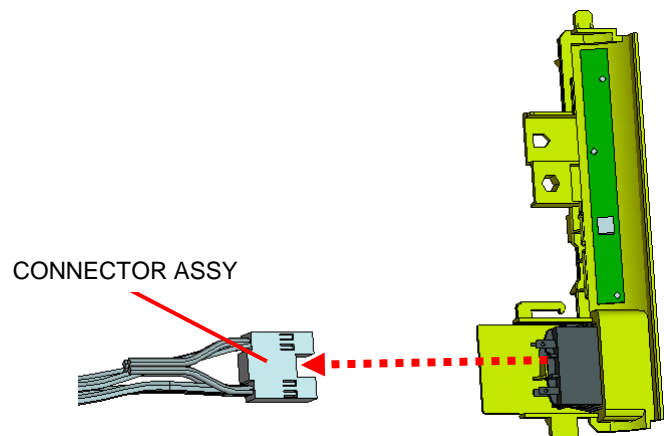


## 1-2. KDL-46NX720/723/725

### 1-2-3. SWITCH UNIT AND POWER SWITCH

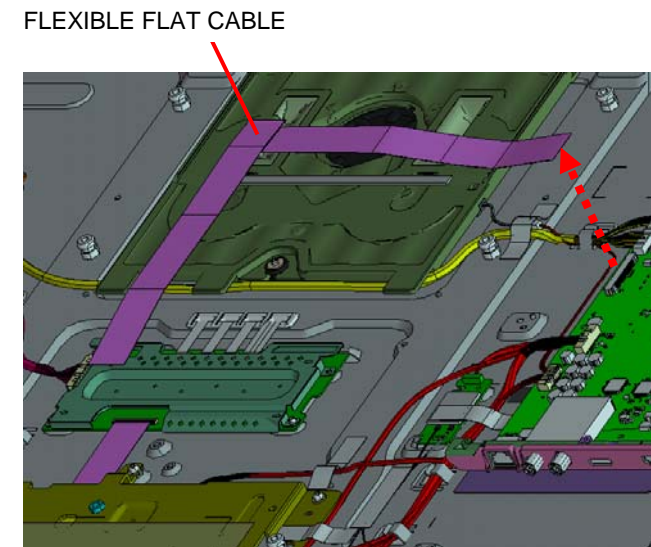
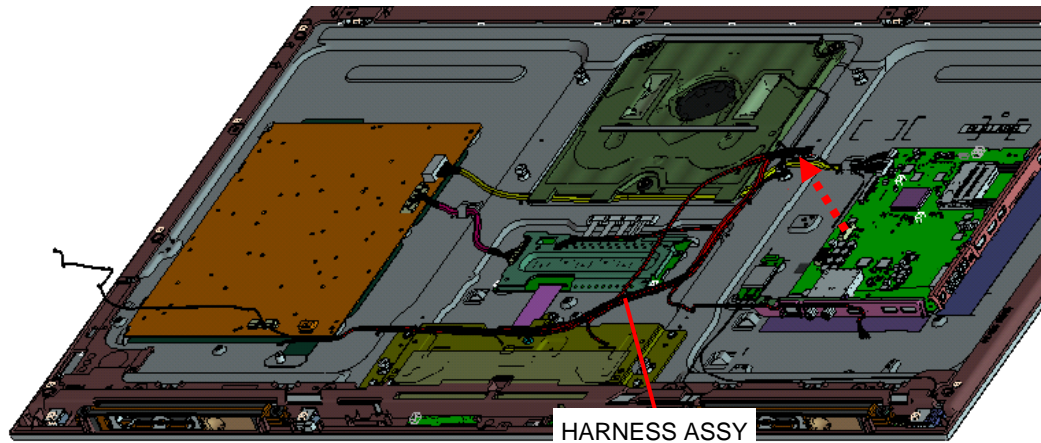
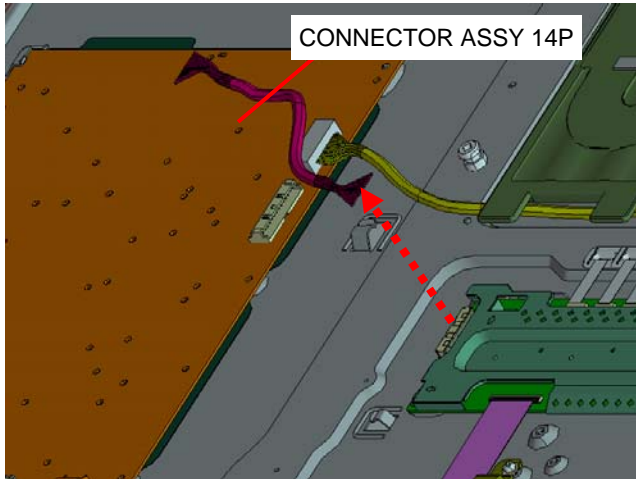


1 Screw (SCREW, +PWH M3X8) P/N: FX0020801



## 1-2. KDL-46NX720/723/725

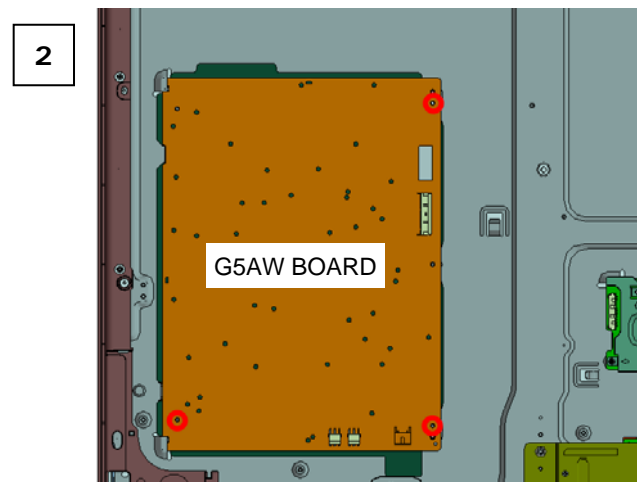
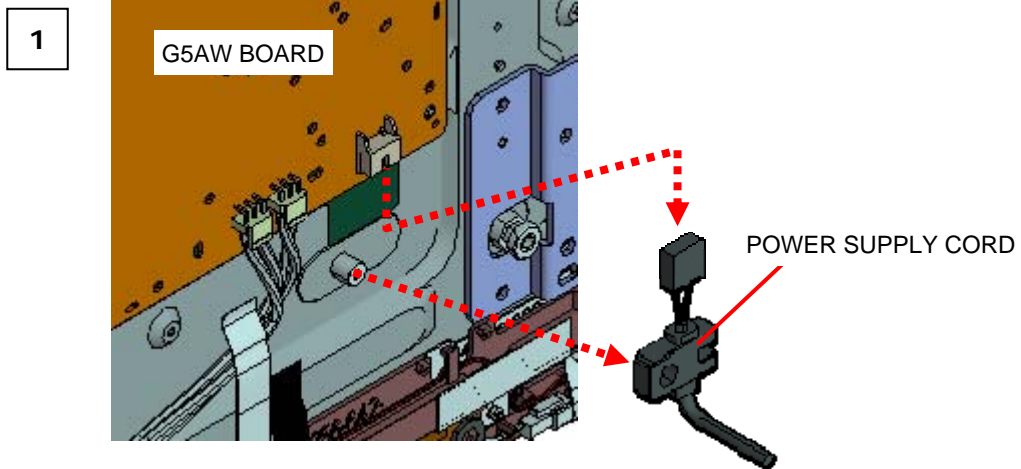
### 1-2-4. HARNESS



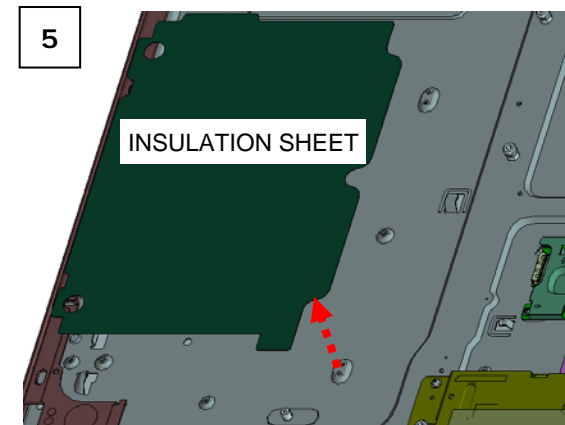
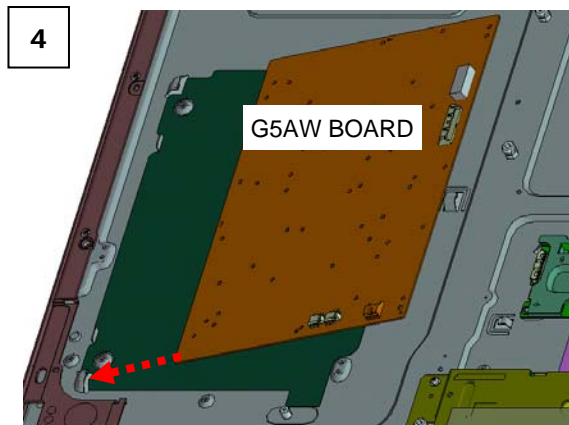


## 1-2. KDL-46NX720/723/725

### 1-2-5. POWER SUPPLY CORD AND G5AW BOARD



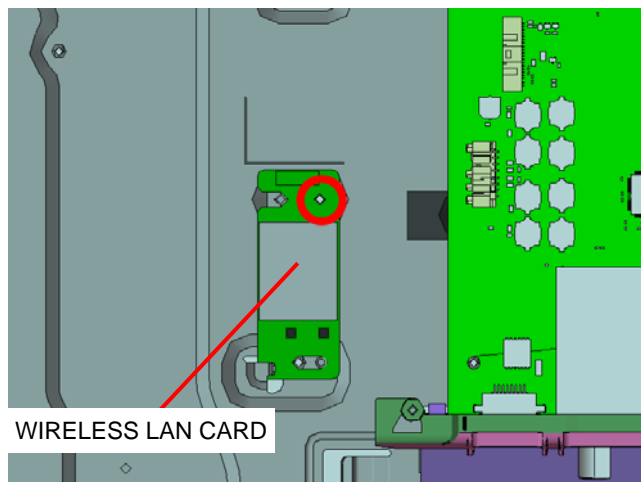
3 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



## 1-2. KDL-46NX720/723/725

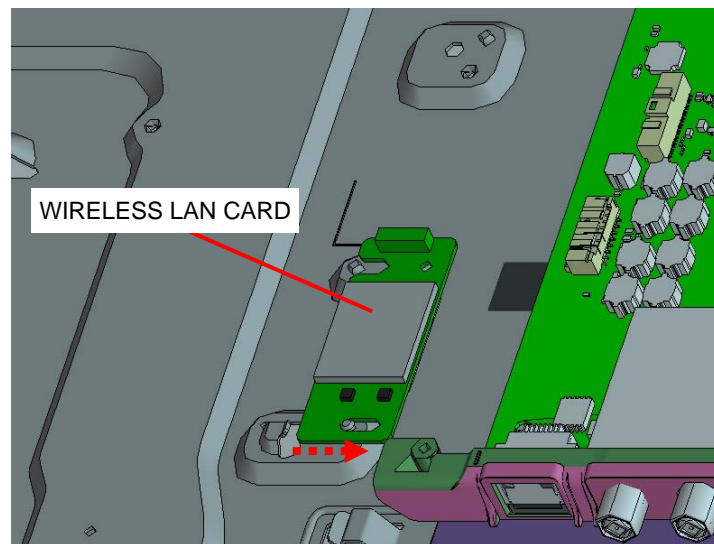
### 1-2-6. WIRELESS LAN CARD

1

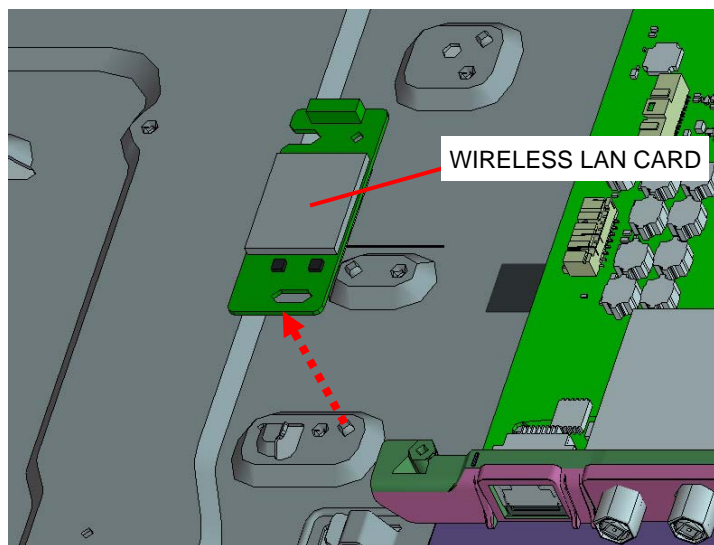


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

2

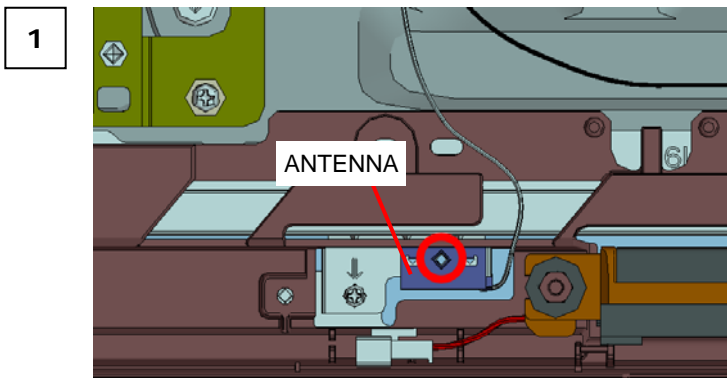


3

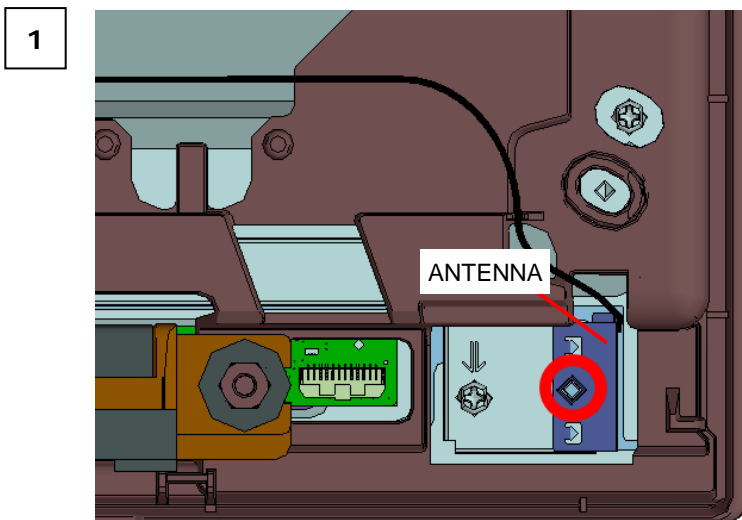
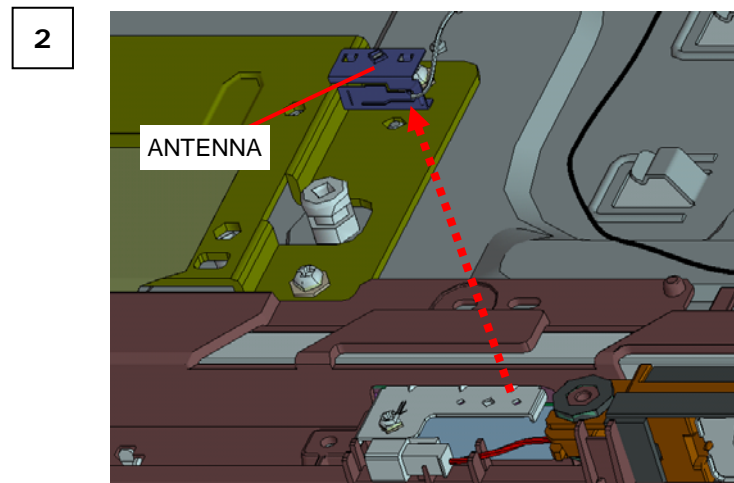


## 1-2. KDL-46NX720/723/725

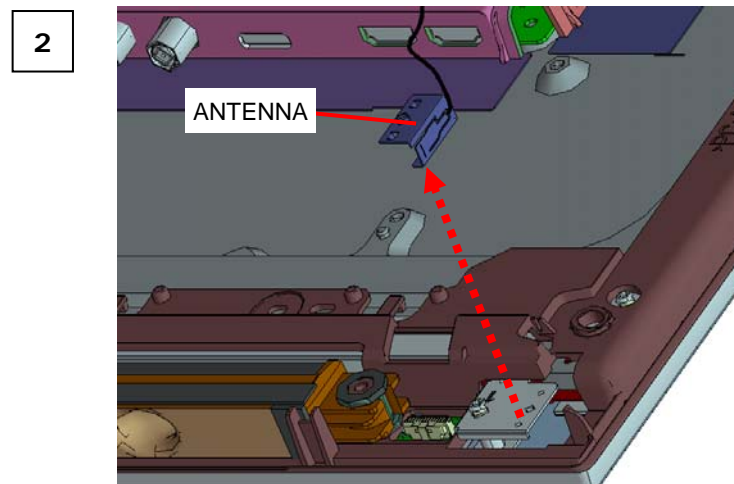
### 1-2-7. ANTENNA



1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

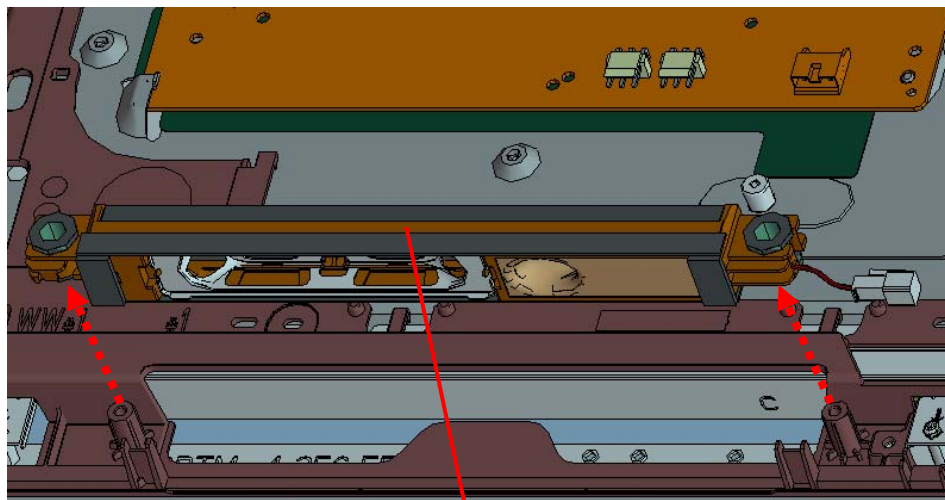


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

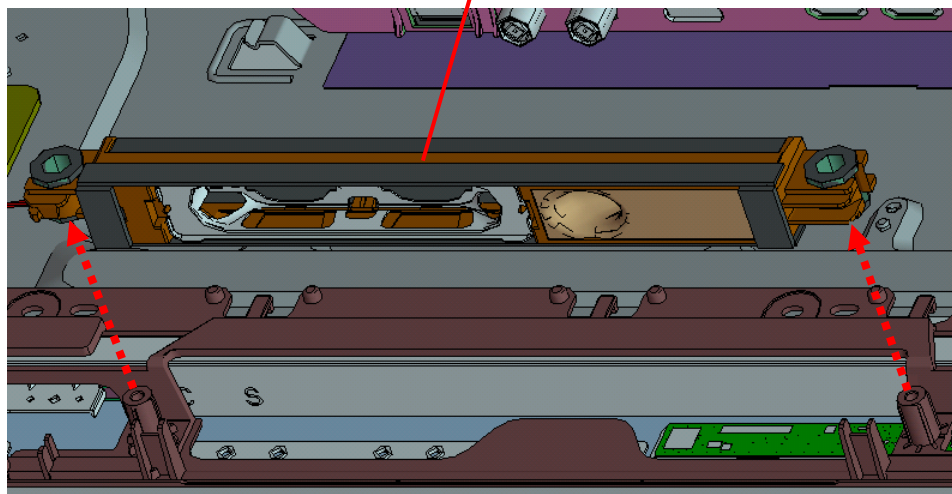


1-2. KDL-46NX720/723/725

1-2-8. SPEAKER BOX ASSY

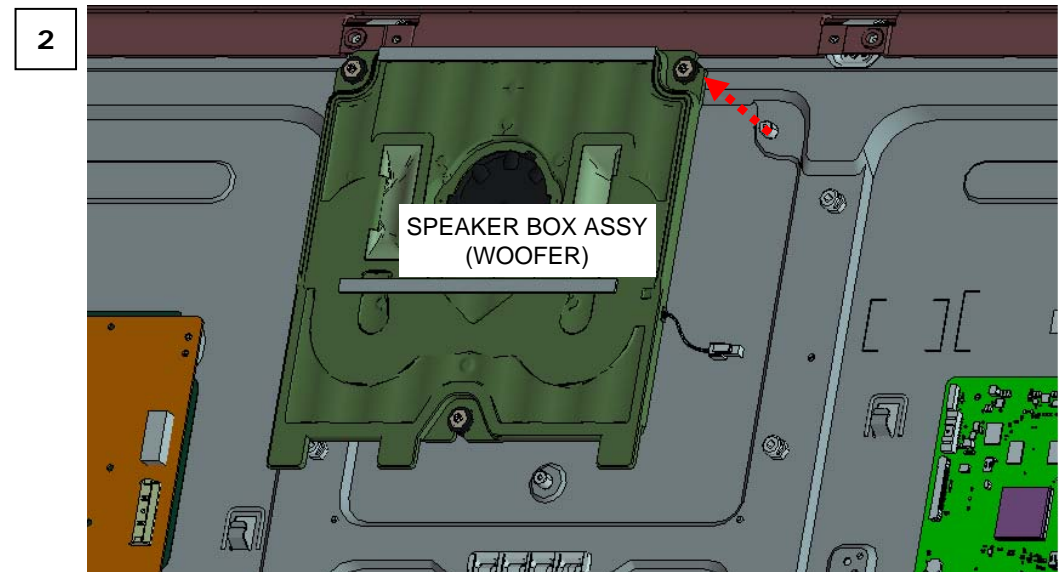
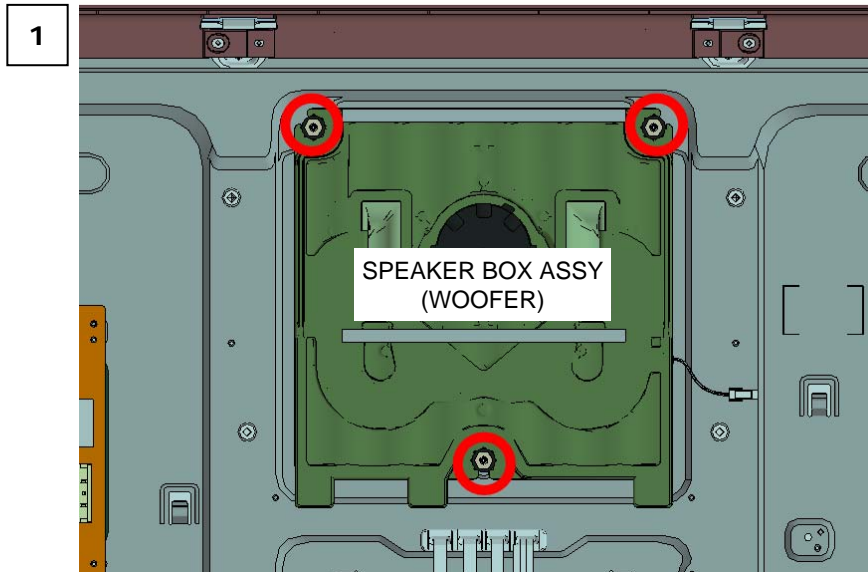


SPEAKER BOX ASSY



1-2. KDL-46NX720/723/725

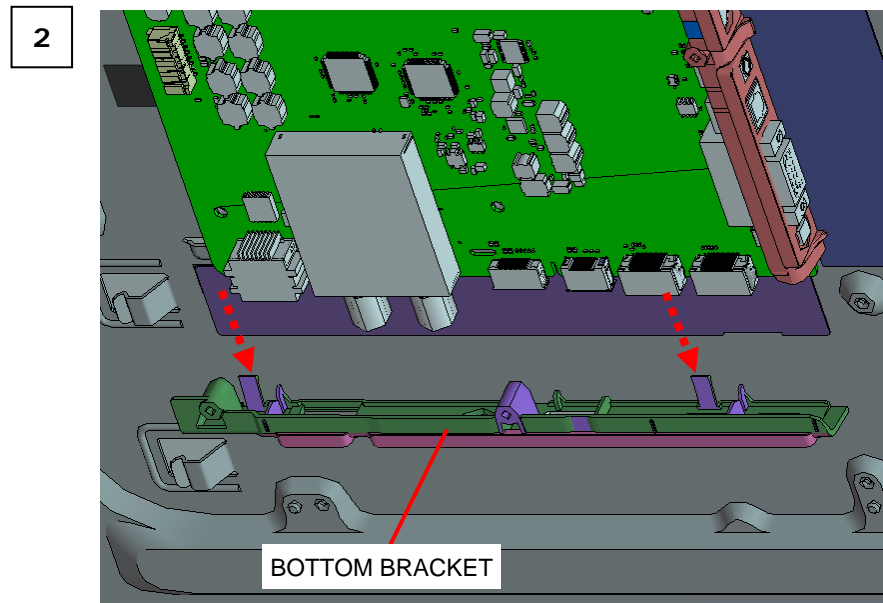
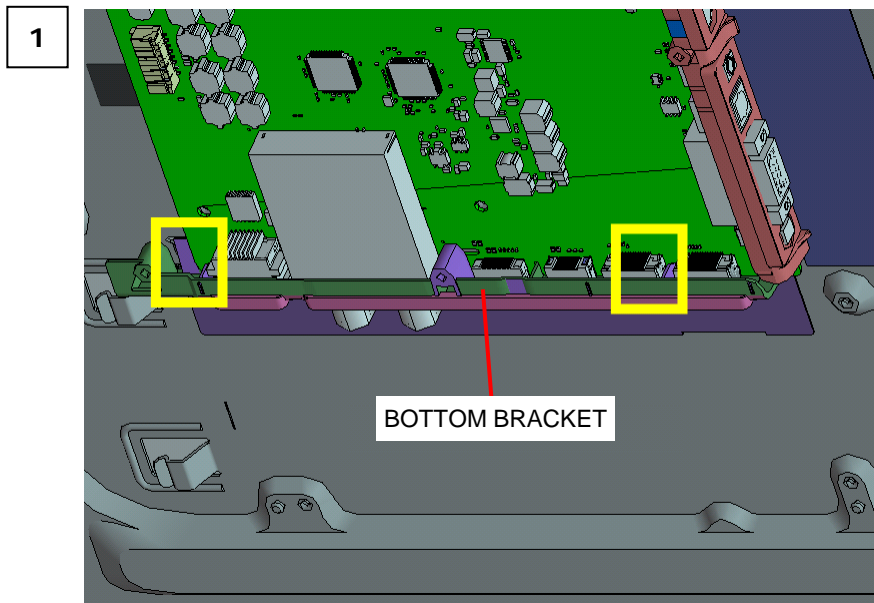
1-2-9. SPEAKER BOX ASSY (WOOFER)



3 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901

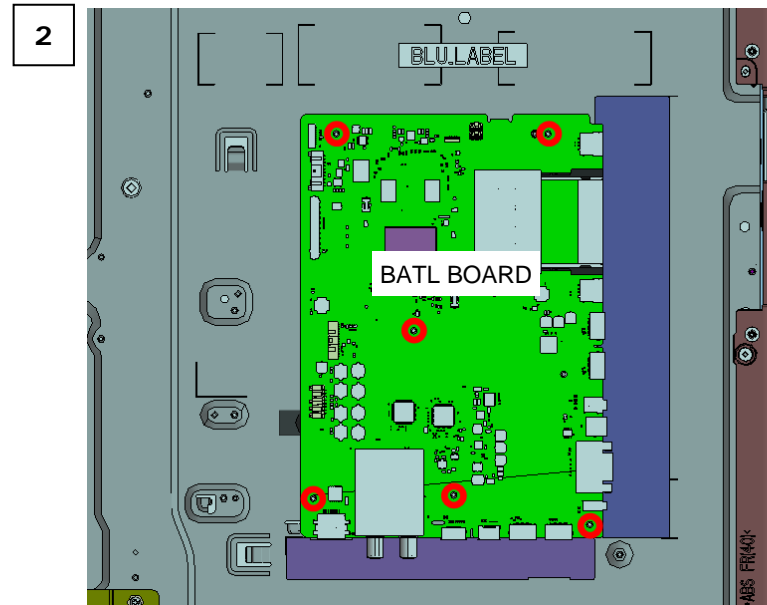
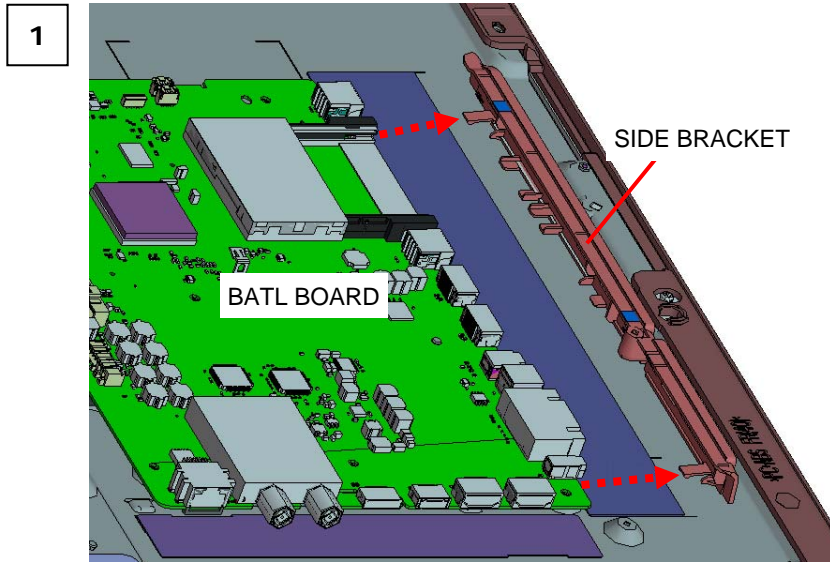
## 1-2. KDL-46NX720/723/725

### 1-2-10. BOTTOM BRACKET

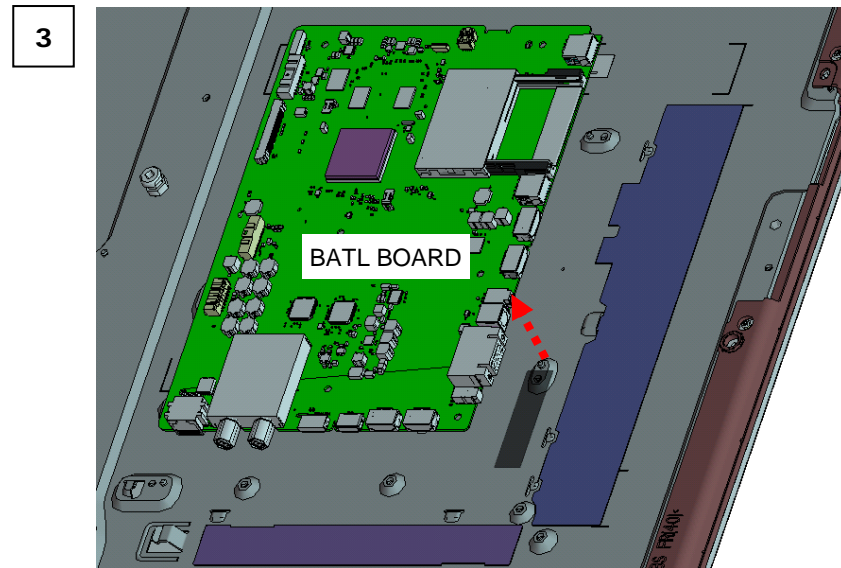


## 1-2. KDL-46NX720/723/725

### 1-2-11. SIDE BRACKET AND BATL BOARD

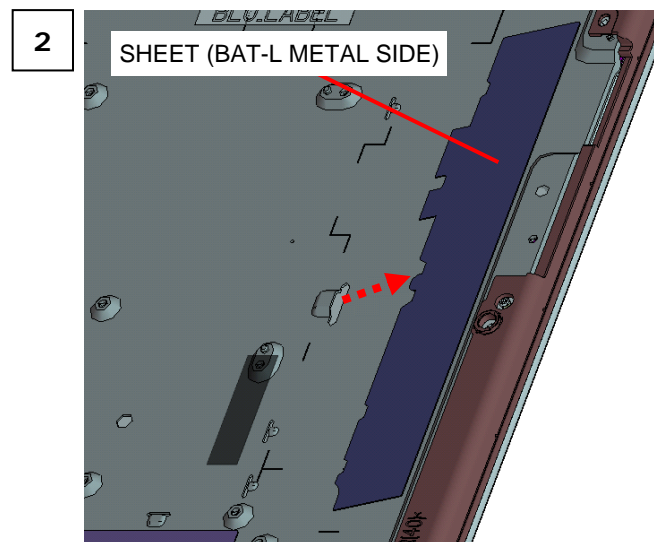
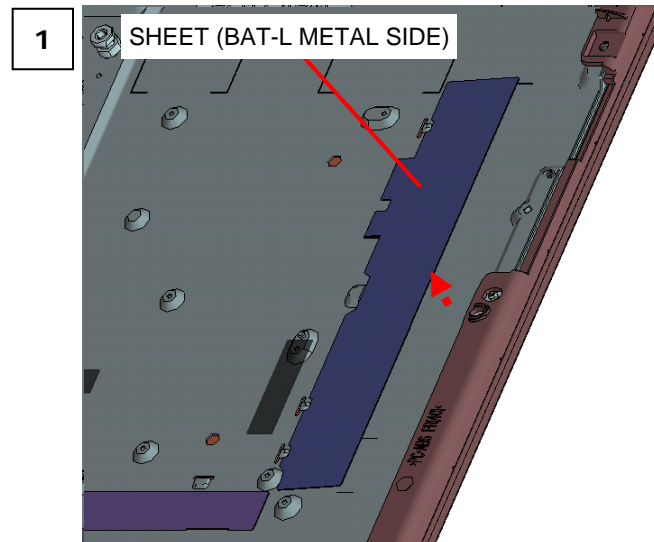
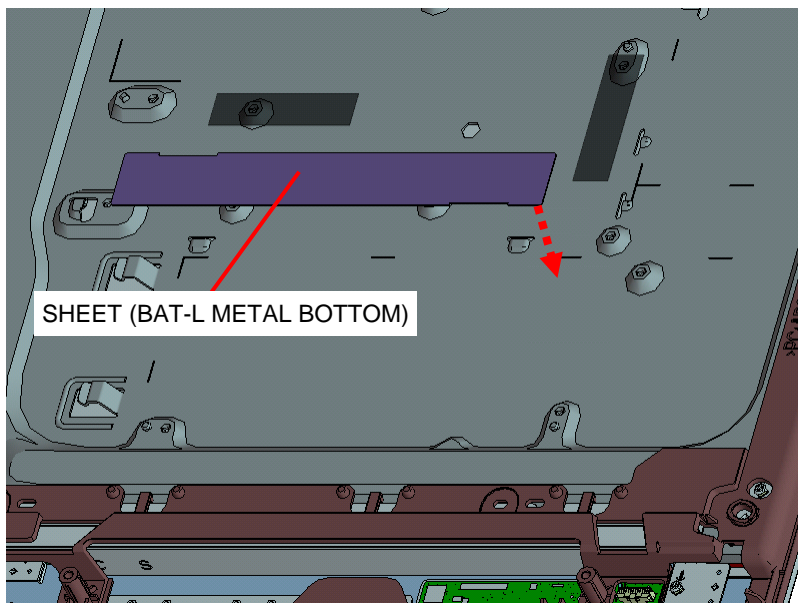


6 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



## 1-2. KDL-46NX720/723/725

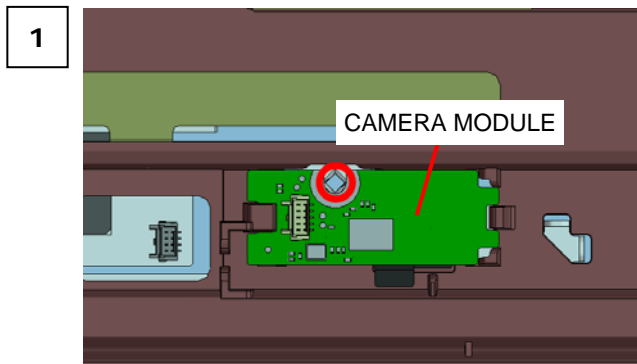
### 1-2-12. SHEET



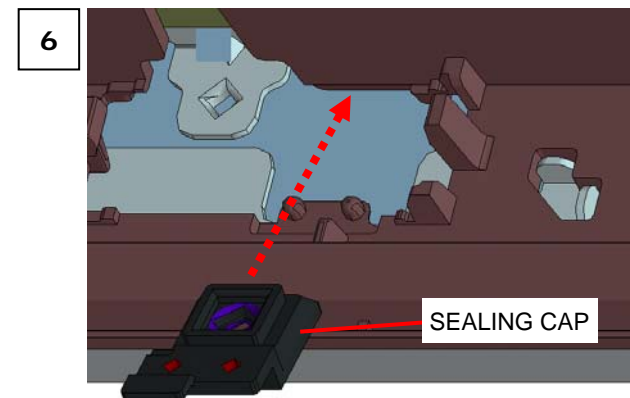
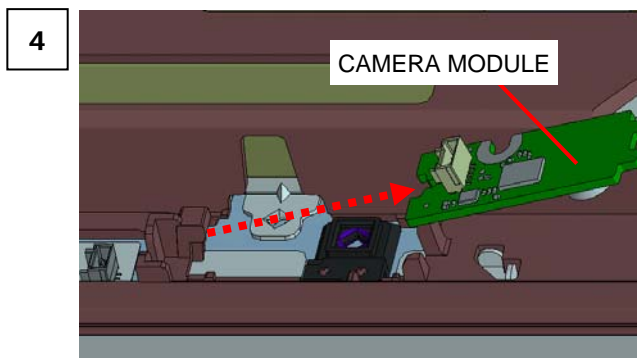
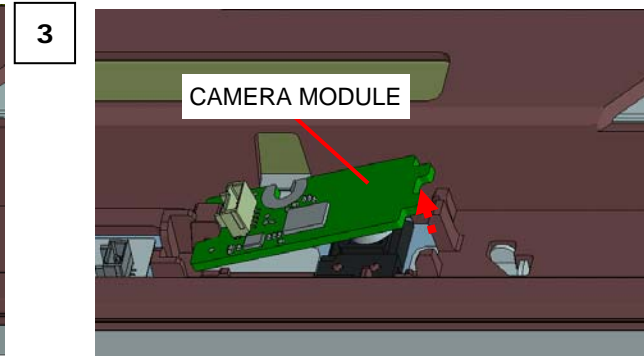
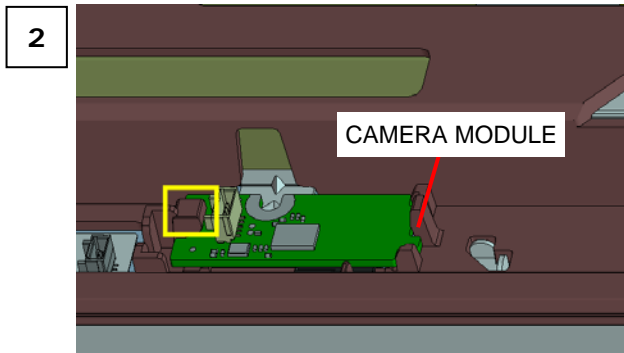


## 1-2. KDL-46NX720/723/725

### 1-2-13. CAMERA MODULE AND SEALING CAP(CAMERA)

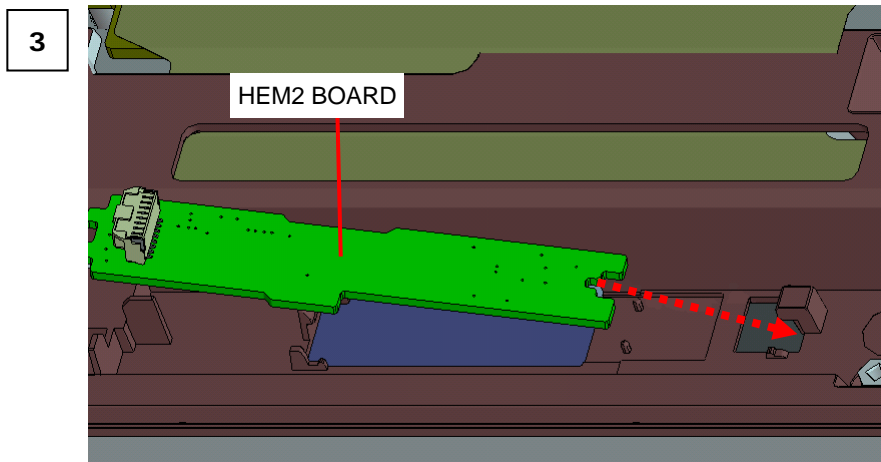
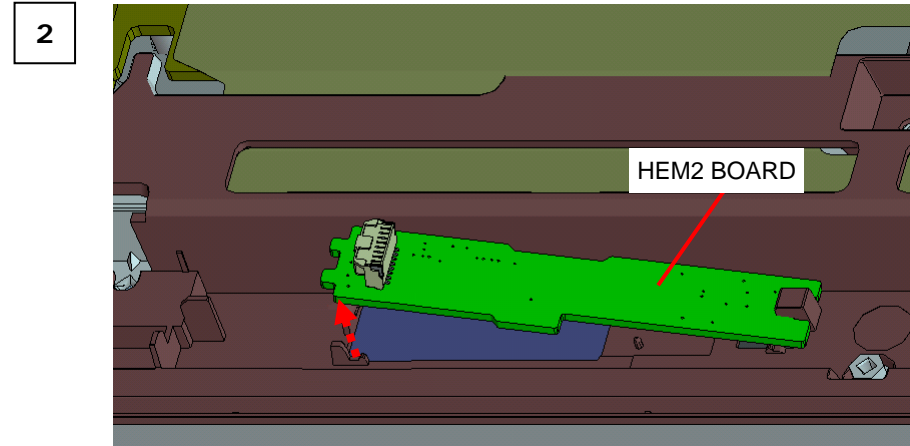
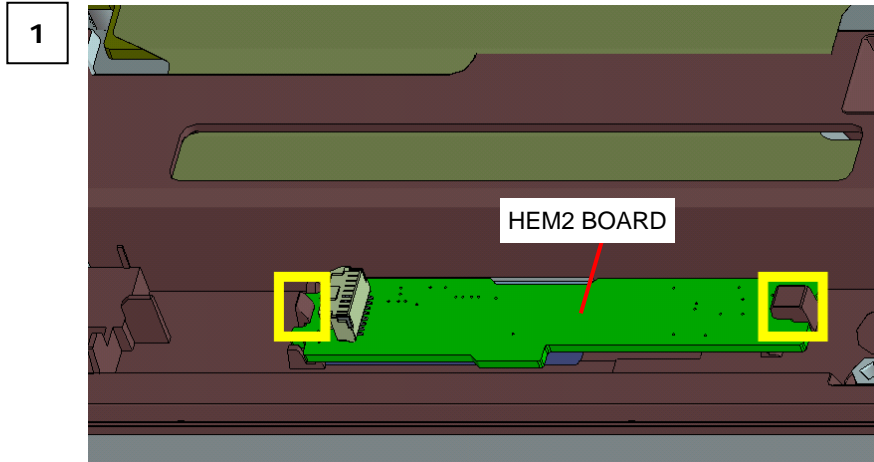


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



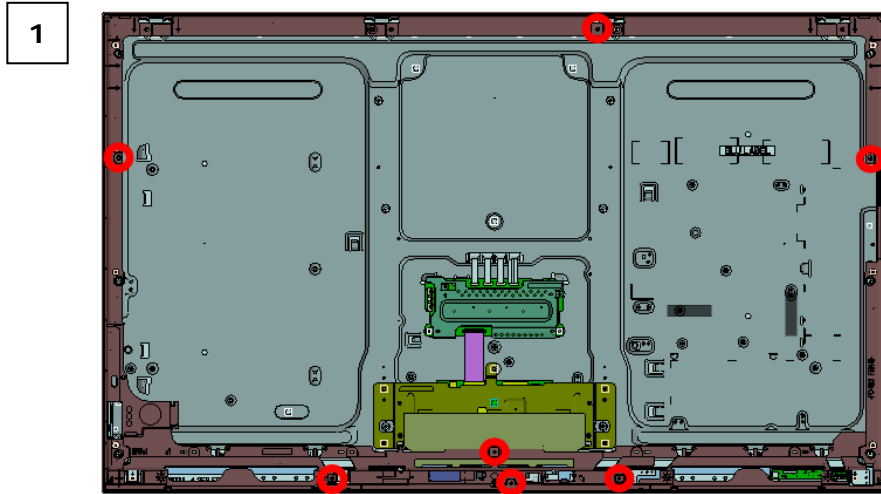
1-2. KDL-46NX720/723/725

1-2-14. HEM2 BOARD

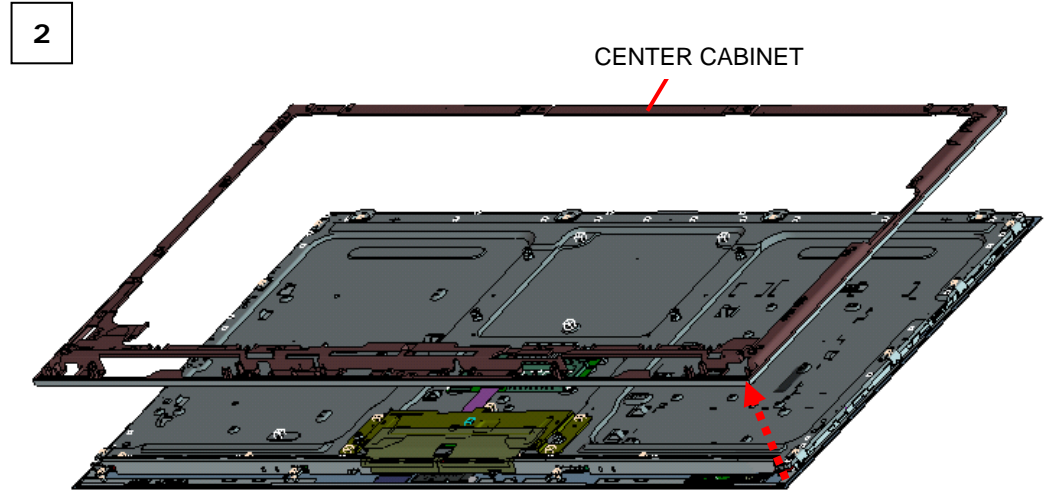


1-2. KDL-46NX720/723/725

1-2-15. CENTER CABINET

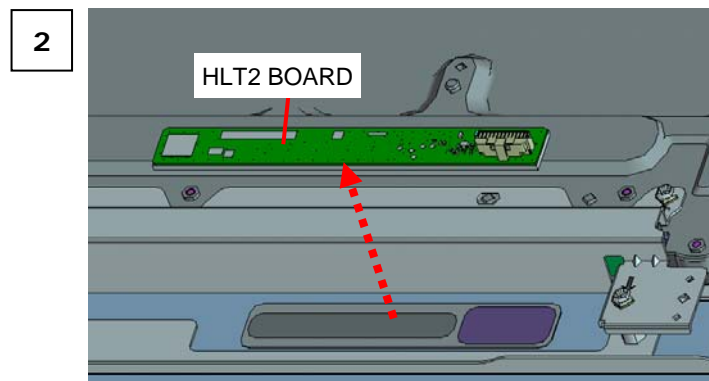
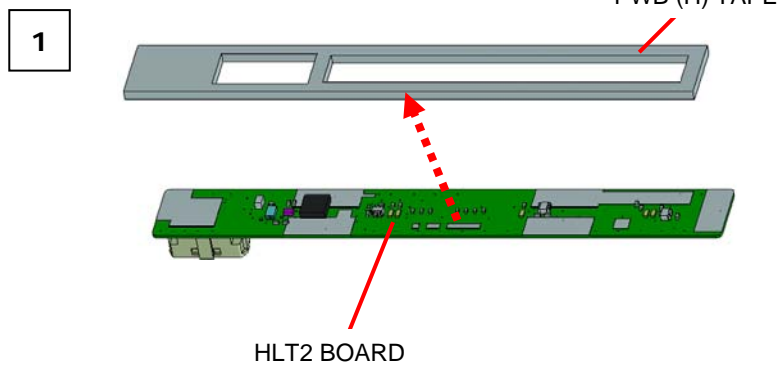
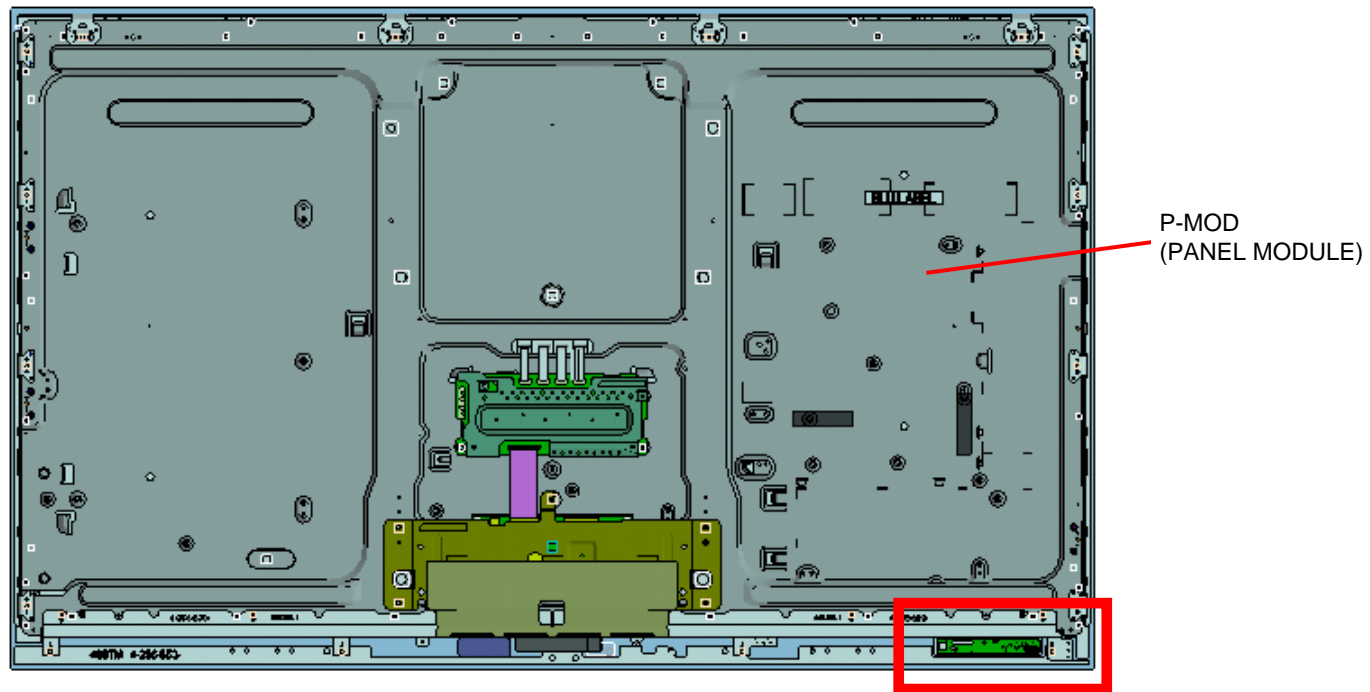


7 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901



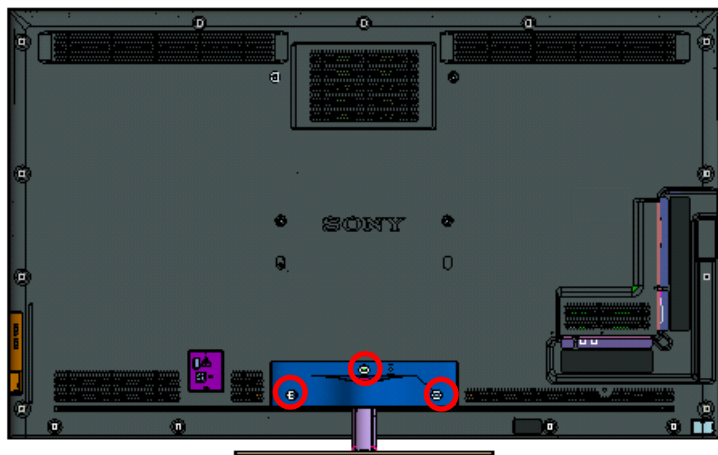
## 1-2. KDL-46NX720/723/725

### 1-2-16. HLT2 BOARD, PWB (H) TAPE AND PANEL MODULE

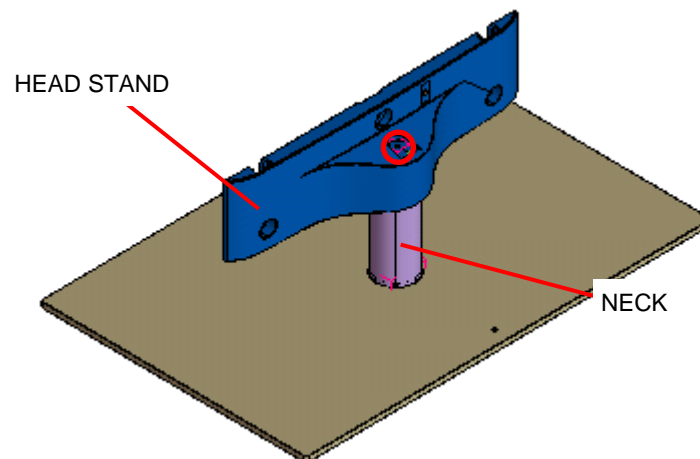


### 1-3. KDL-55NX720/723/725

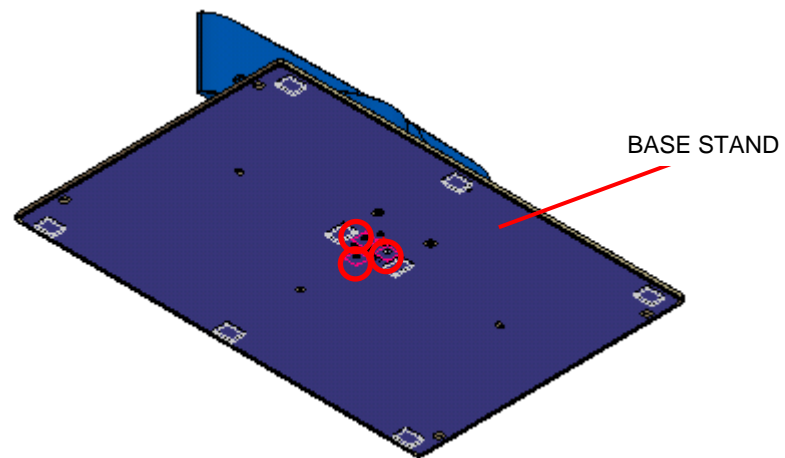
#### 1-3-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



3 Screws (SCREW, +PSW M5X16) – Inside bag, screw assy



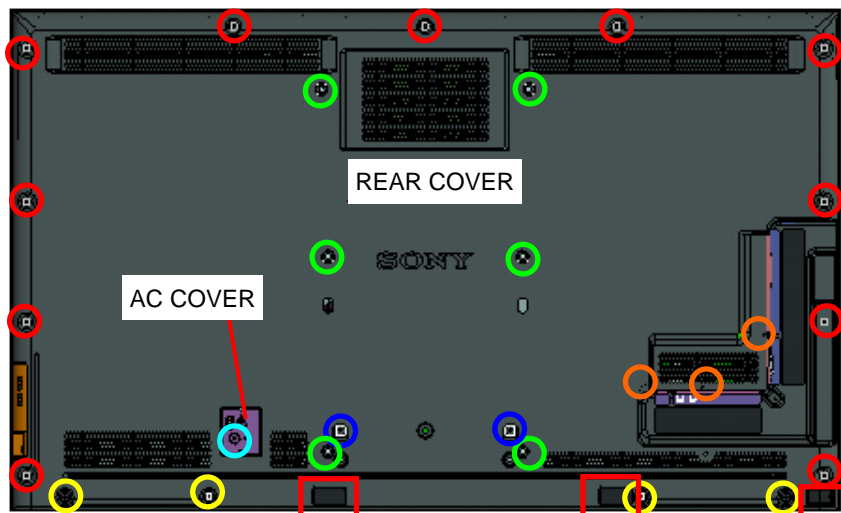
1 Screw (USER SCREW ST) – Inside bag, screw assy



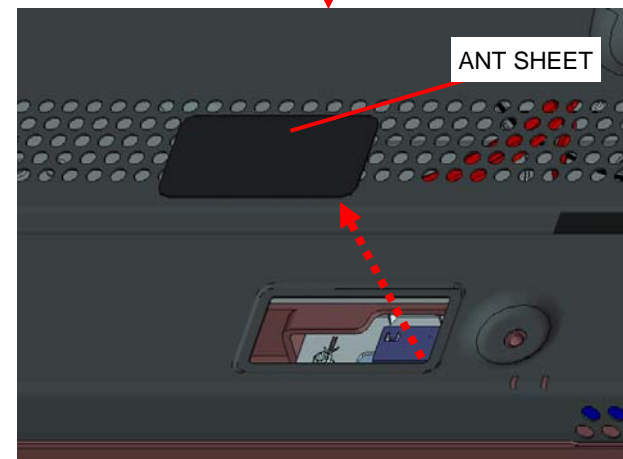
3 Screws (USER SCREW ST) – Inside bag, screw assy

### 1-3. KDL-55NX720/723/725

#### 1-3-2. REAR COVER, AC COVER, ANT COVER AND ANT SHEET

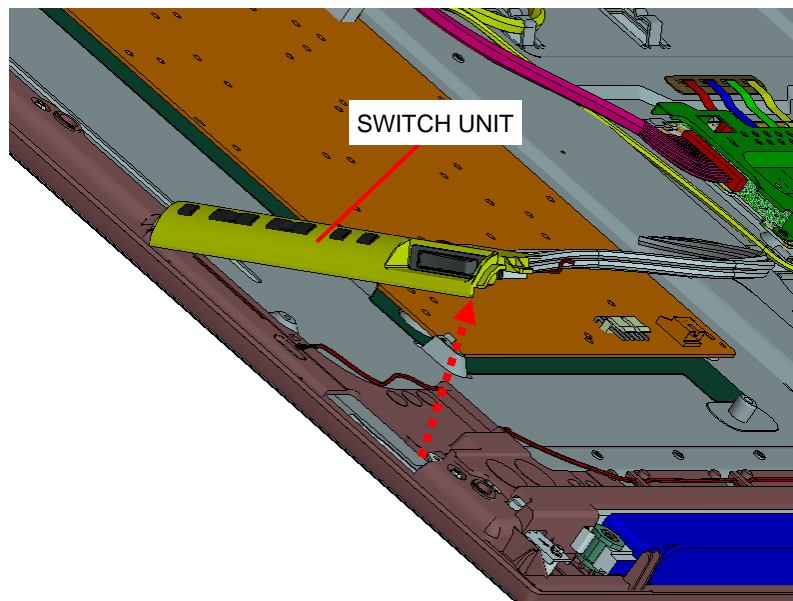
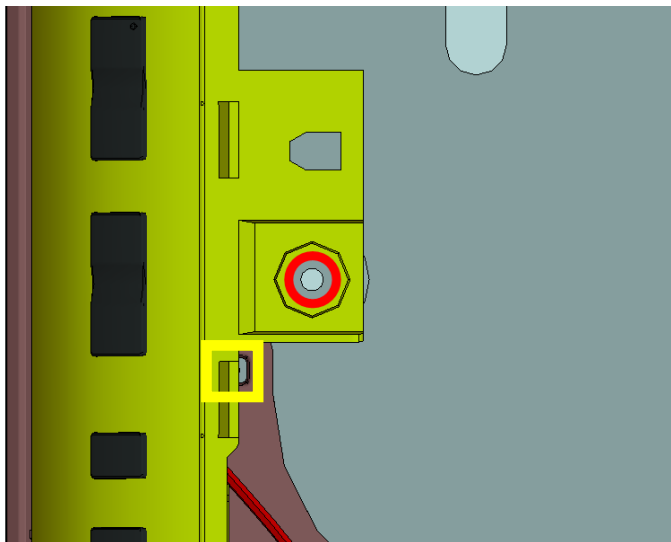


- 11 Screws (SCREW, +PWH M3X8) P/N: FX0020801
- 4 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 6 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006302
- 3 Screws (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0012779
- 2 Screws (JOINT, STAND) P/N: FX0002101
- 1 Screw (SCREW, +PSW M3X6 W12) P/N: FX0001901

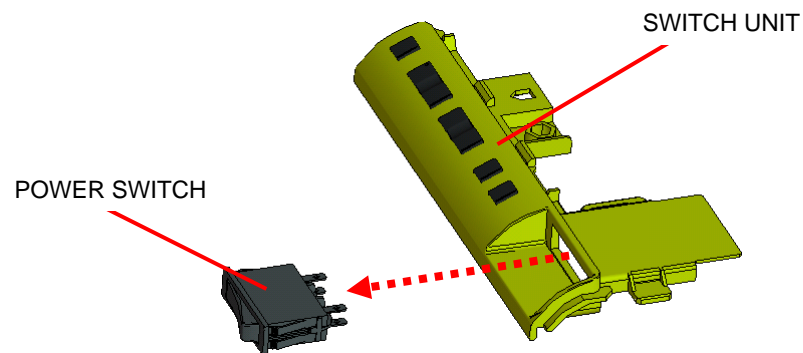
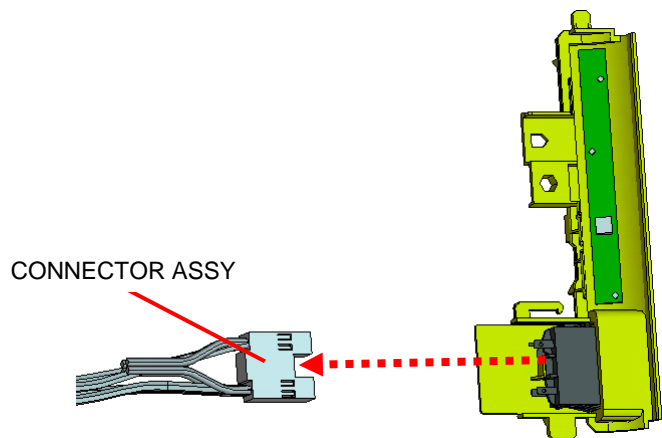


### 1-3. KDL-55NX720/723/725

#### 1-3-3. SWITCH UNIT AND POWER SWITCH

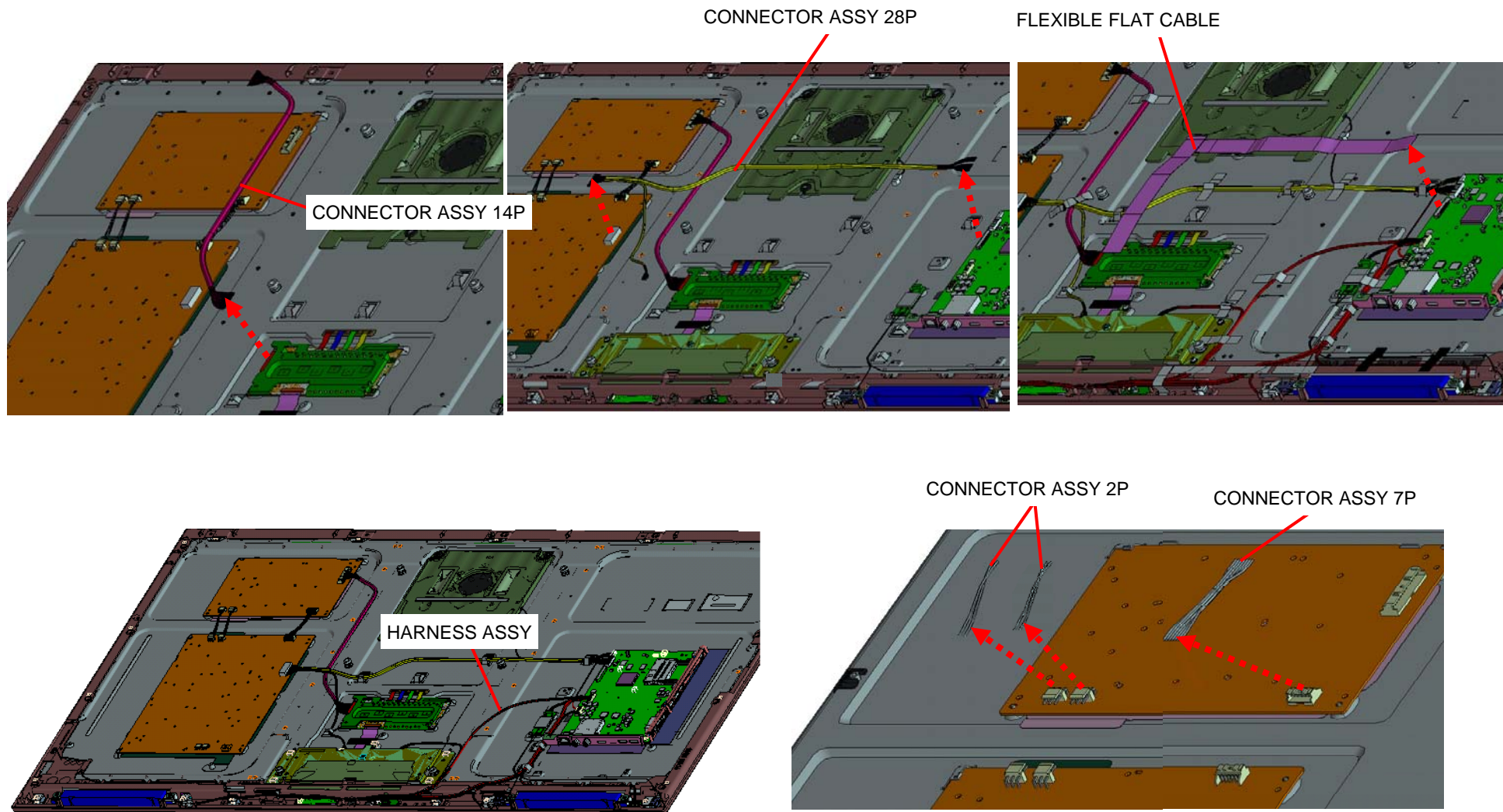


1 Screw (SCREW, +PWH M3X8) P/N: FX0020801



### 1-3. KDL-55NX720/723/725

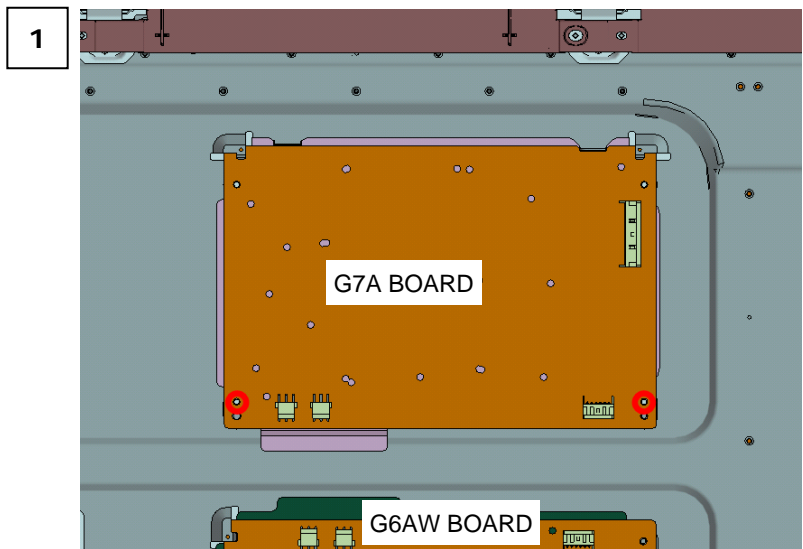
#### 1-3-4. HARNESS



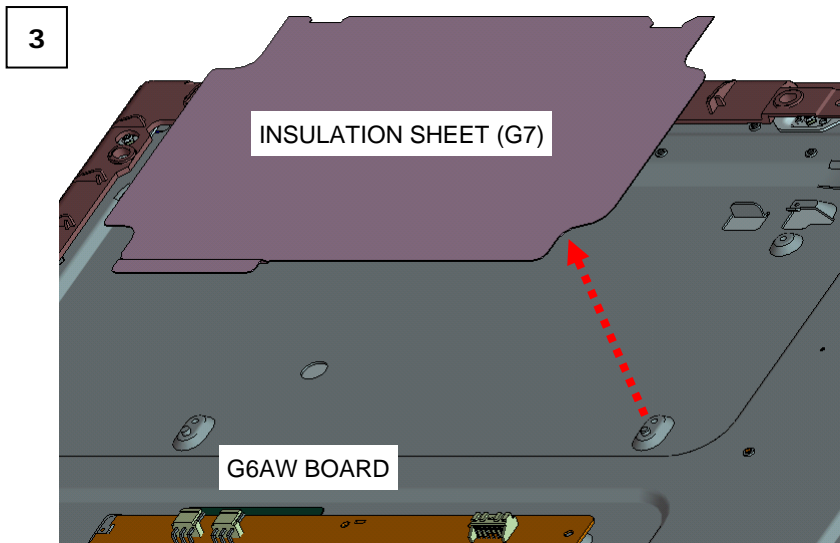
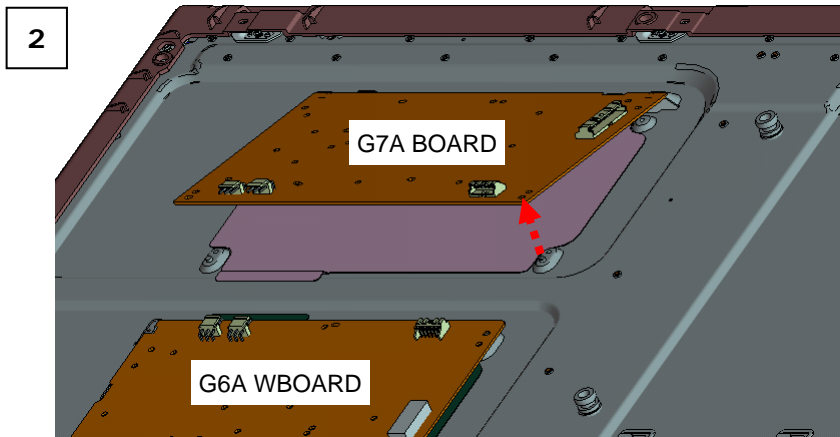


### 1-3. KDL-55NX720/723/725

#### 1-3-5. G7A BOARD

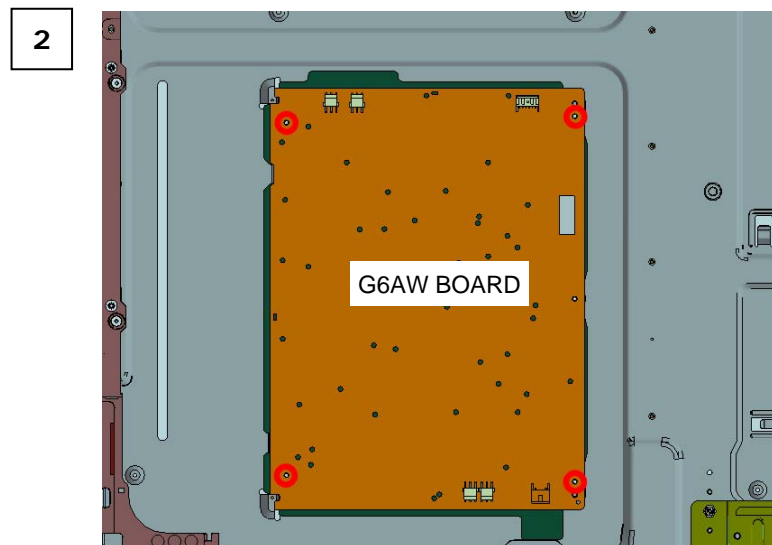
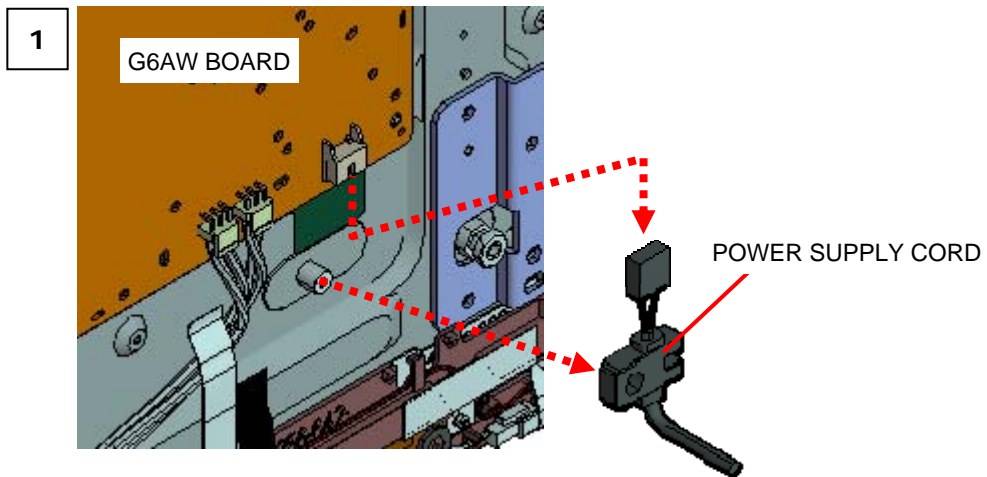


2 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

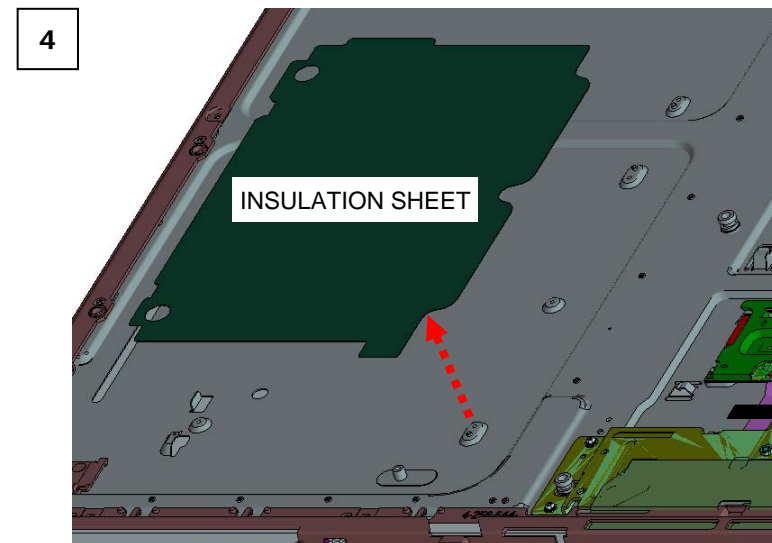
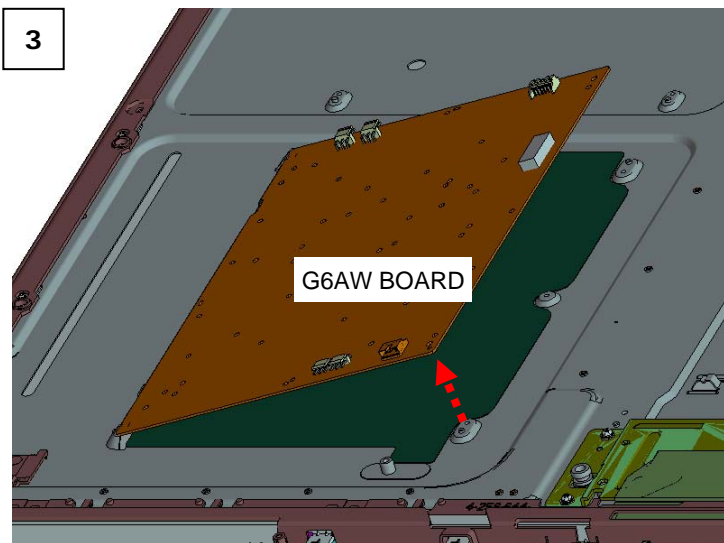


### 1-3. KDL-55NX720/723/725

#### 1-3-6. POWER SUPPLY CORD AND G6AW BOARD



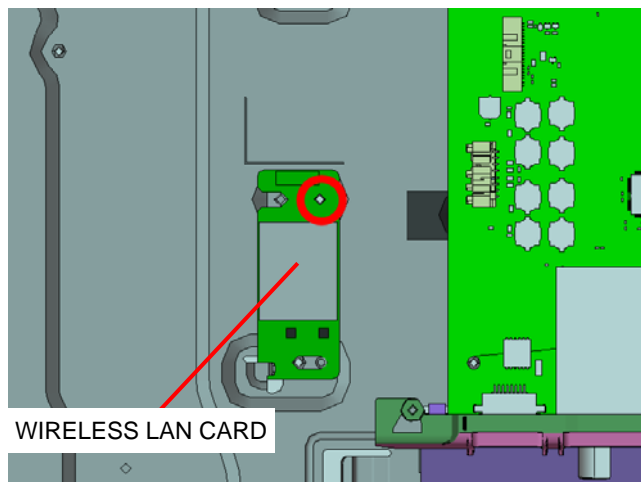
4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



### 1-3. KDL-55NX720/723/725

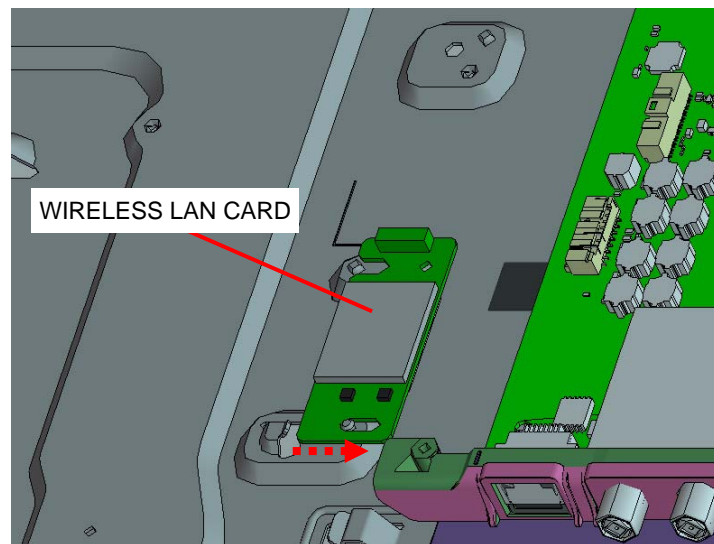
#### 1-3-7. WIRELESS LAN CARD

1

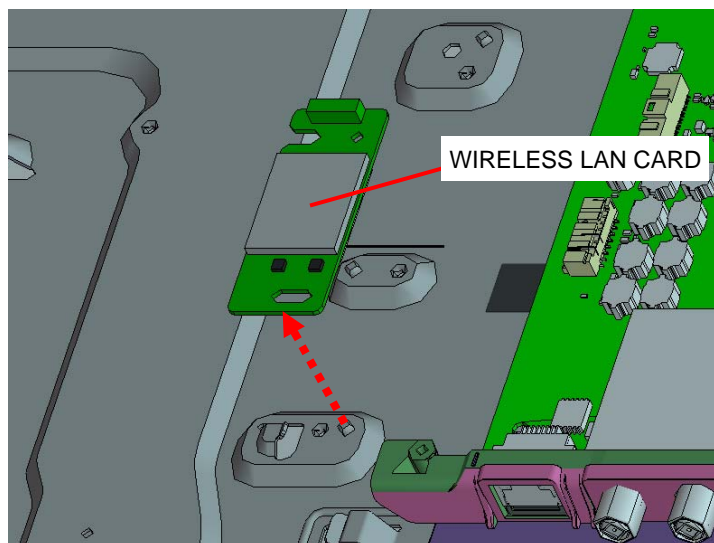


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

2

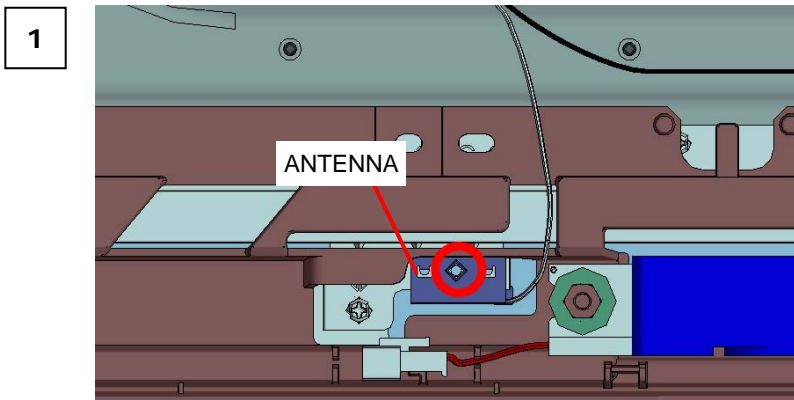


3

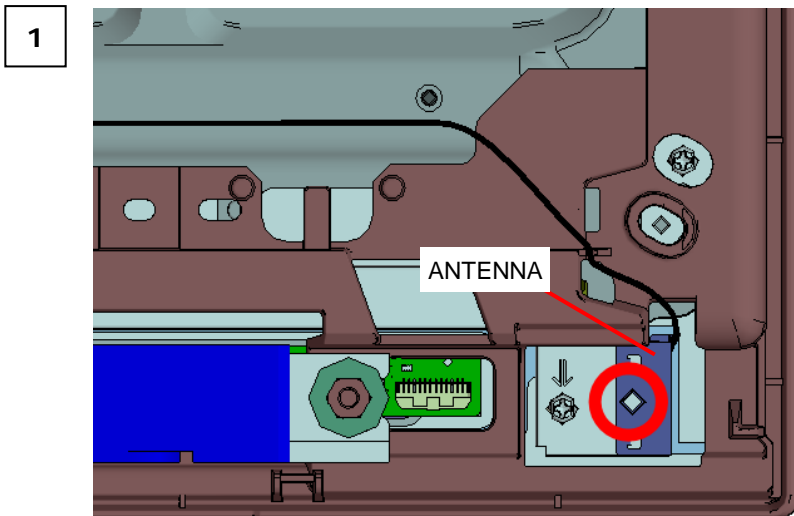
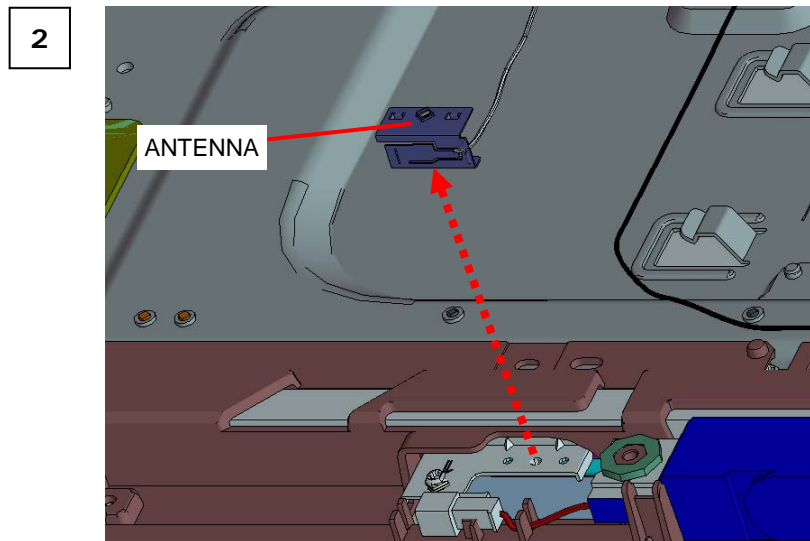


### 1-3. KDL-55NX720/723/725

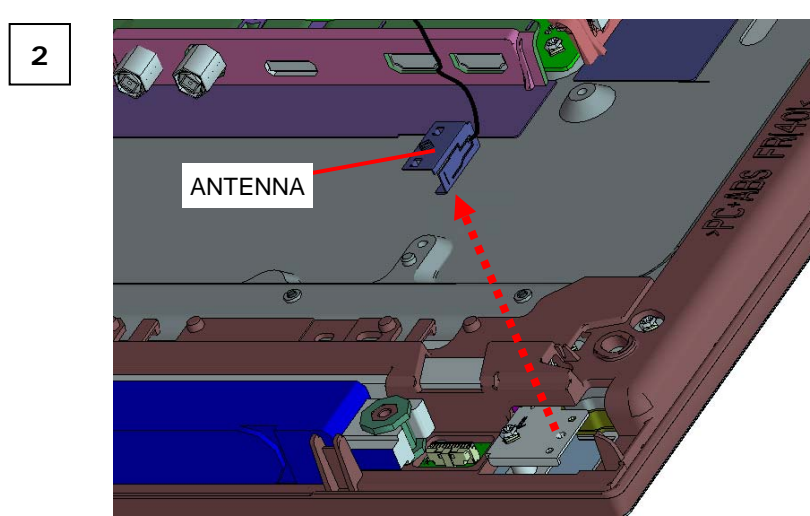
#### 1-3-8. ANTENNA



1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

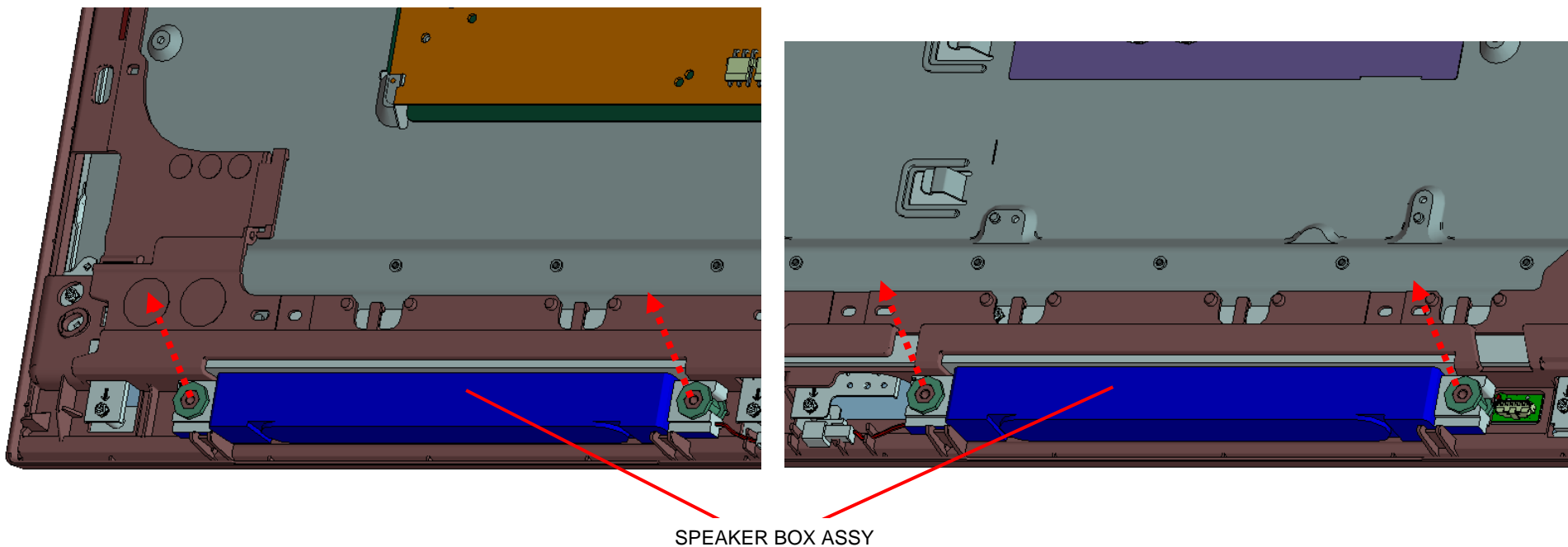


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



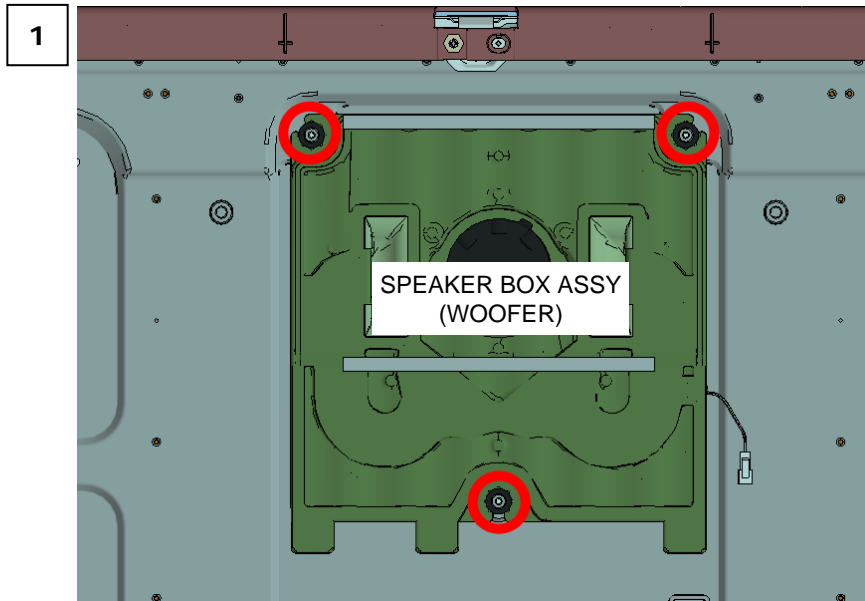
1-3. KDL-55NX720/723/725

1-3-9. SPEAKER BOX ASSY

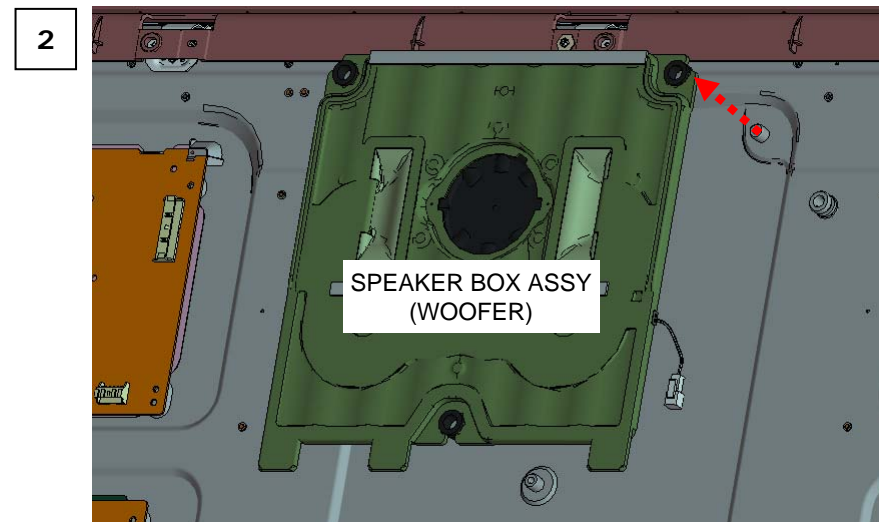


1-3. KDL-55NX720/723/725

1-3-10. SPEAKER BOX ASSY (WOOFER)

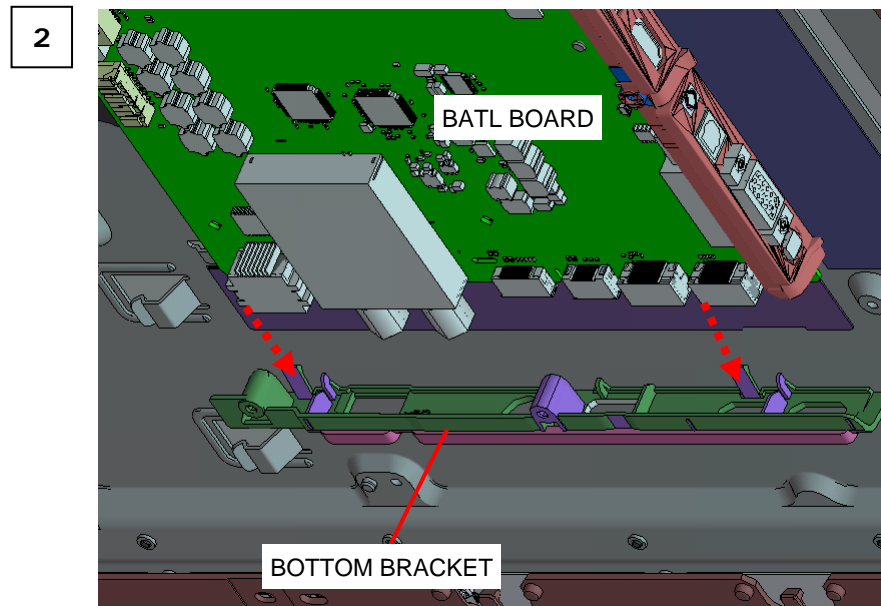
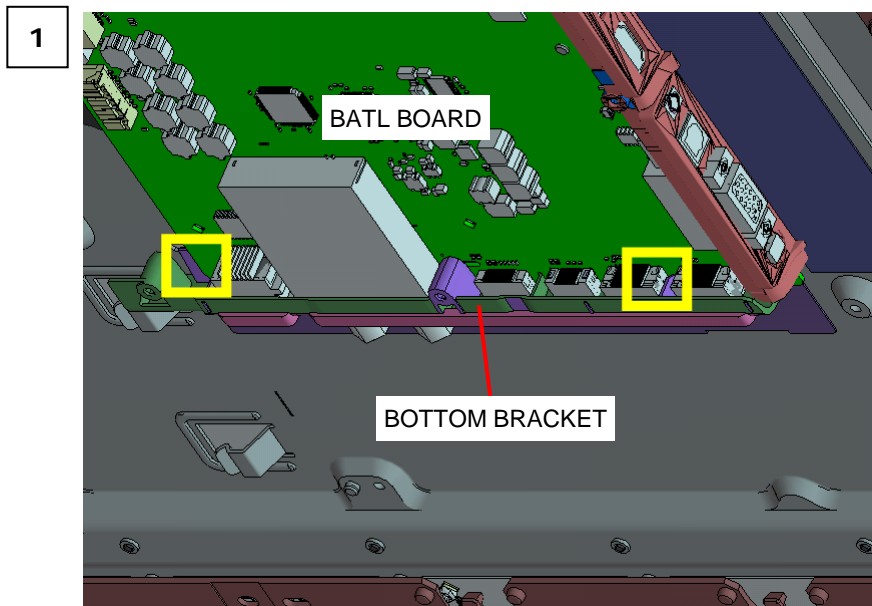


3 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901



### 1-3. KDL-55NX720/723/725

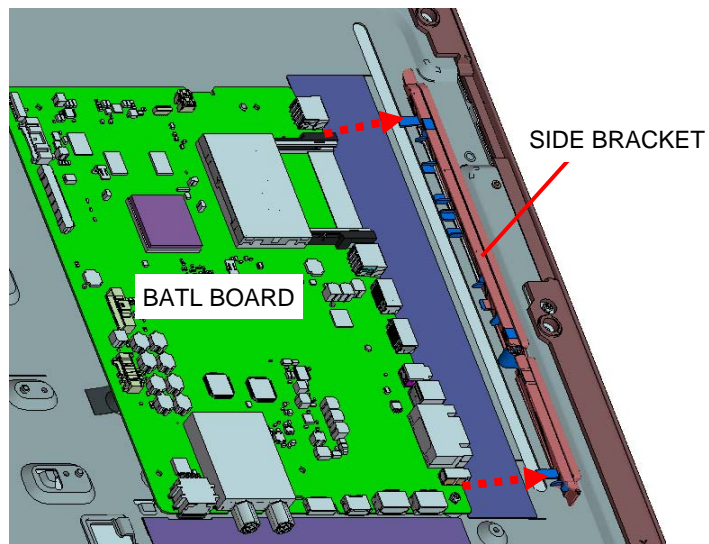
#### 1-3-11. BOTTOM BRACKET



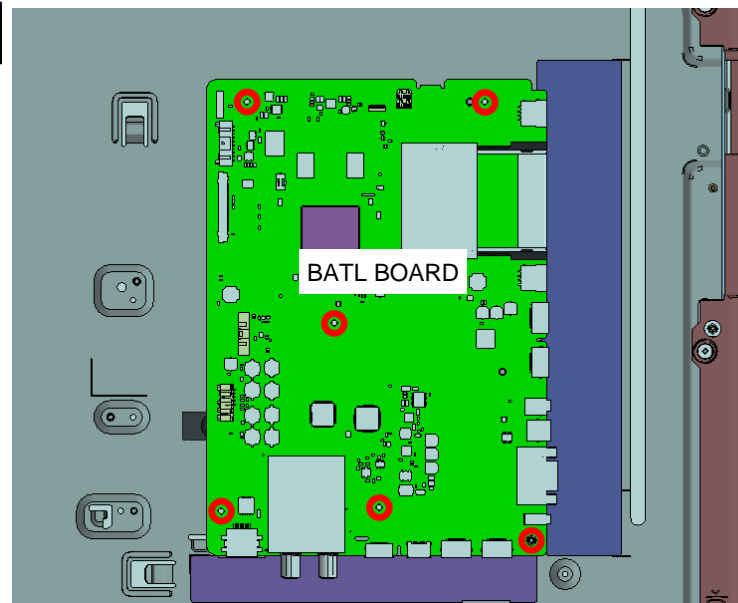
### 1-3. KDL-55NX720/723/725

#### 1-3-12. SIDE BRACKET AND BATL BOARD

1

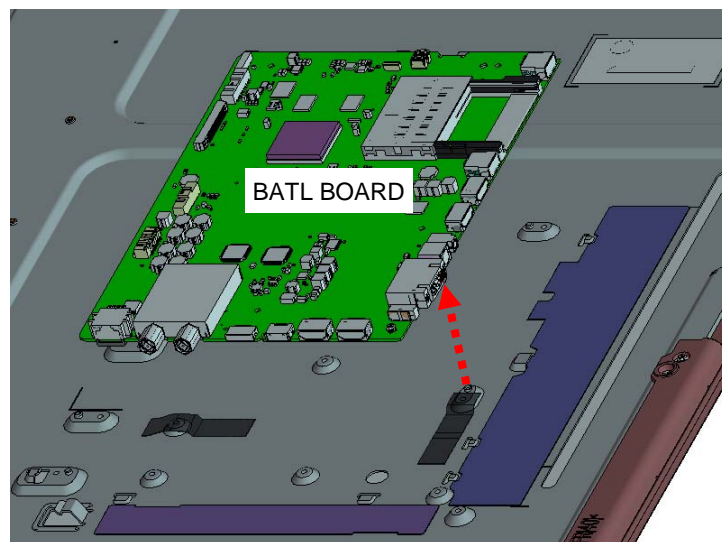


2



6 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

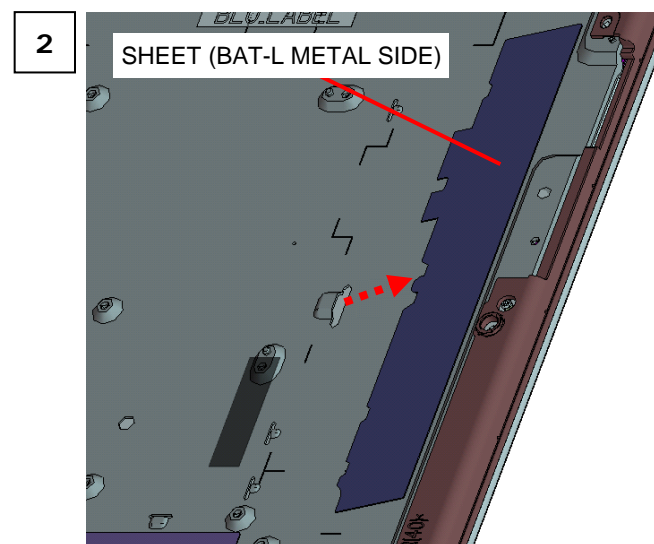
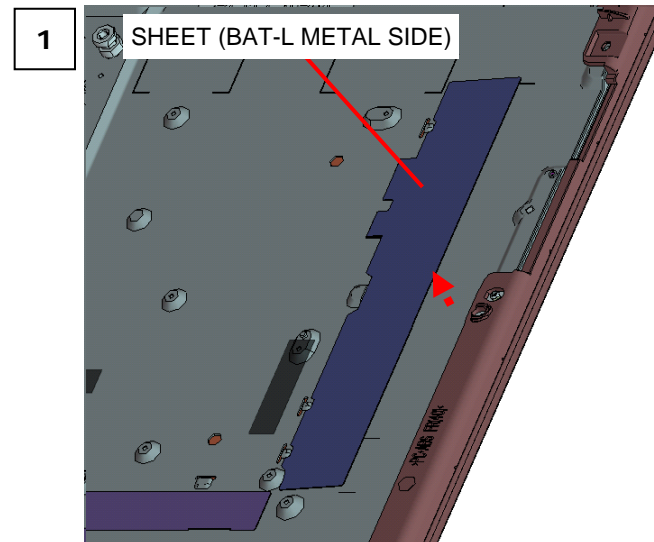
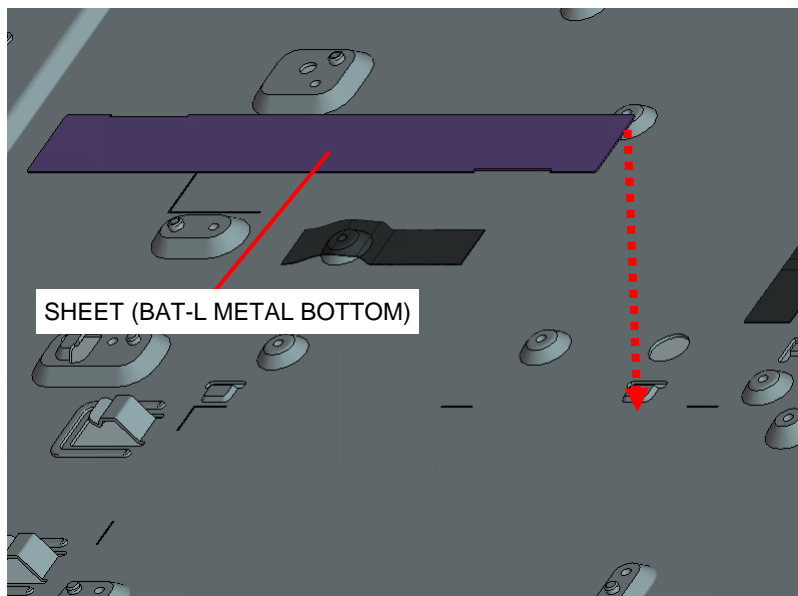
3





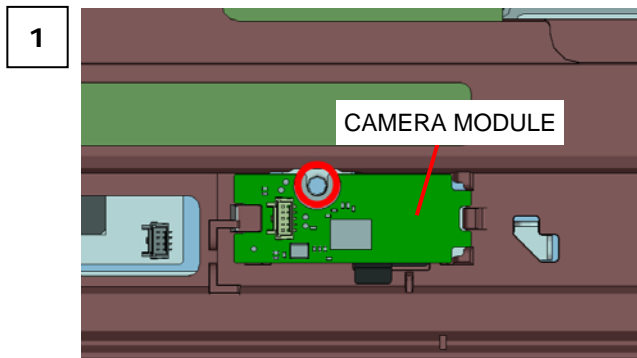
## 1-3. KDL-55NX720/723/725

## 1-3-13. SHEET

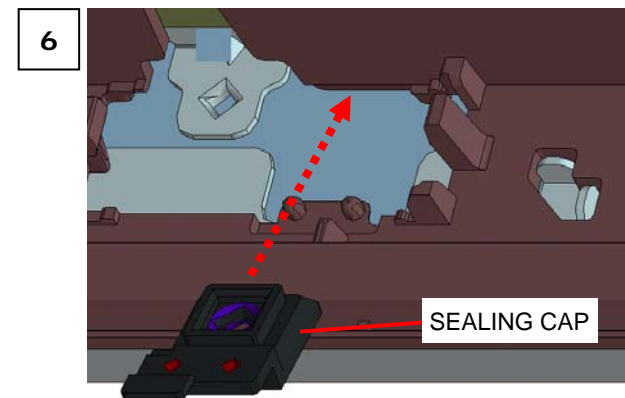
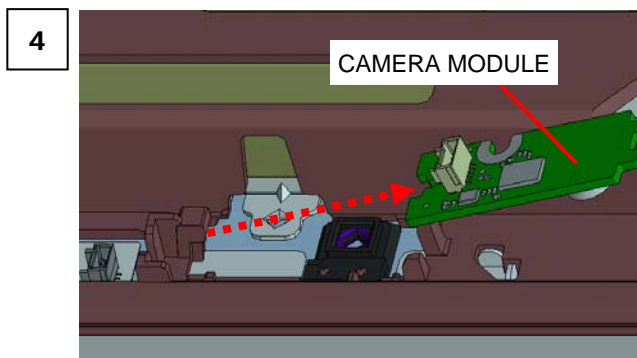
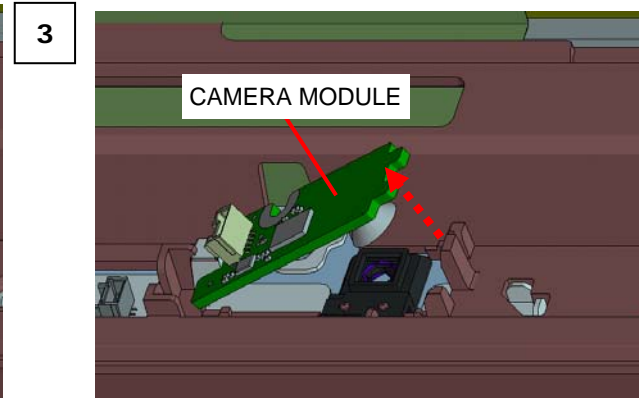
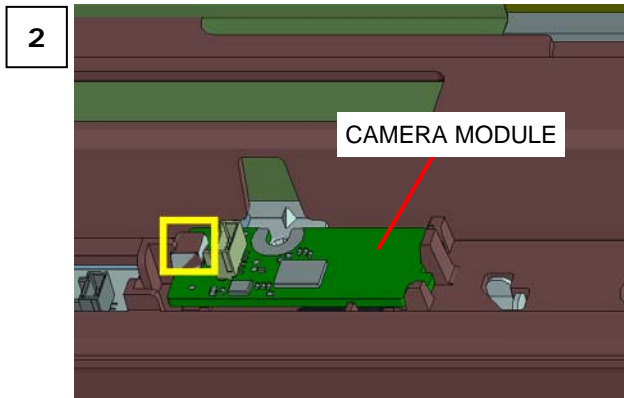


### 1-3. KDL-55NX720/723/725

#### 1-3-14. CAMERA MODULE AND SEALING CAP(CAMERA)

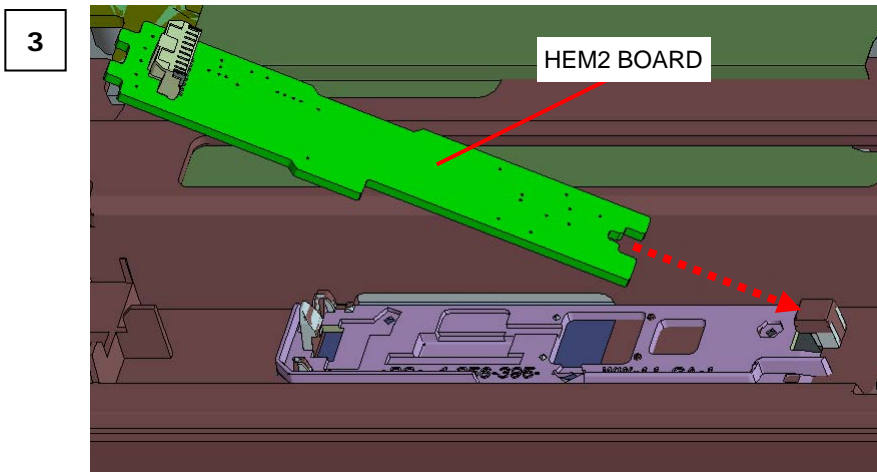
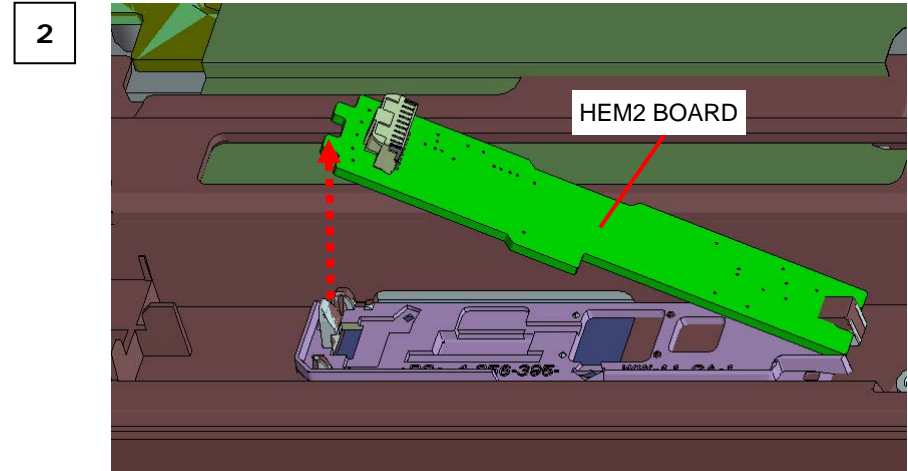
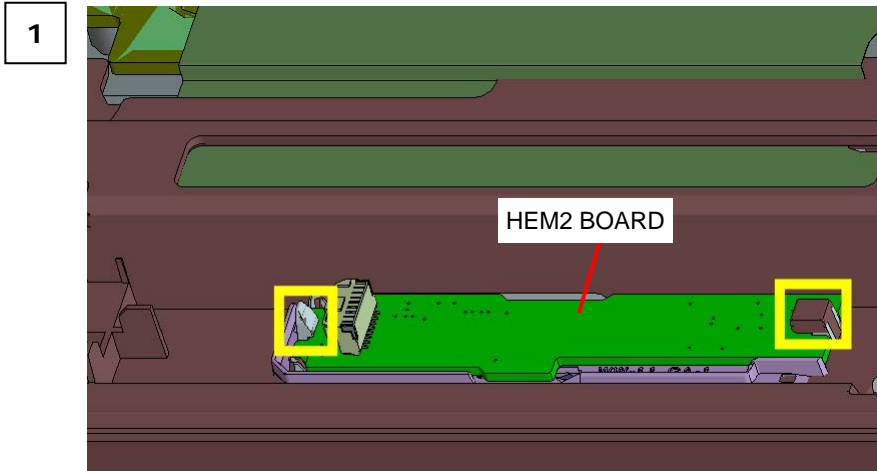


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



1-3. KDL-55NX720/723/725

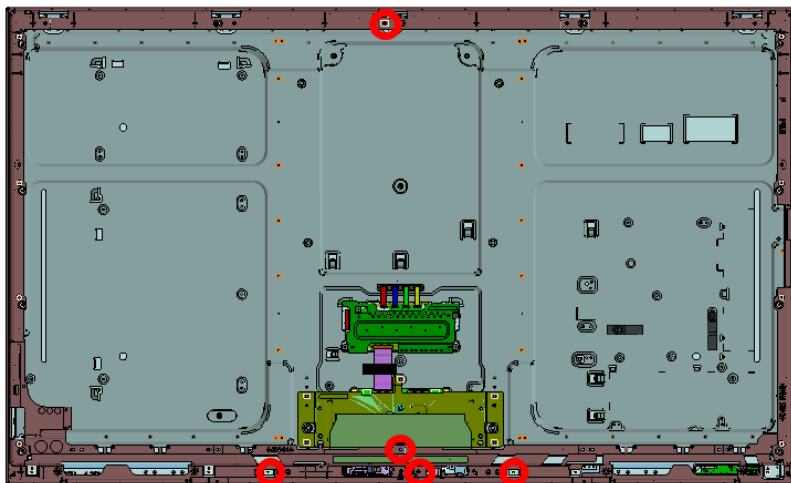
1-3-15. HEM2 BOARD



### 1-3. KDL-55NX720/723/725

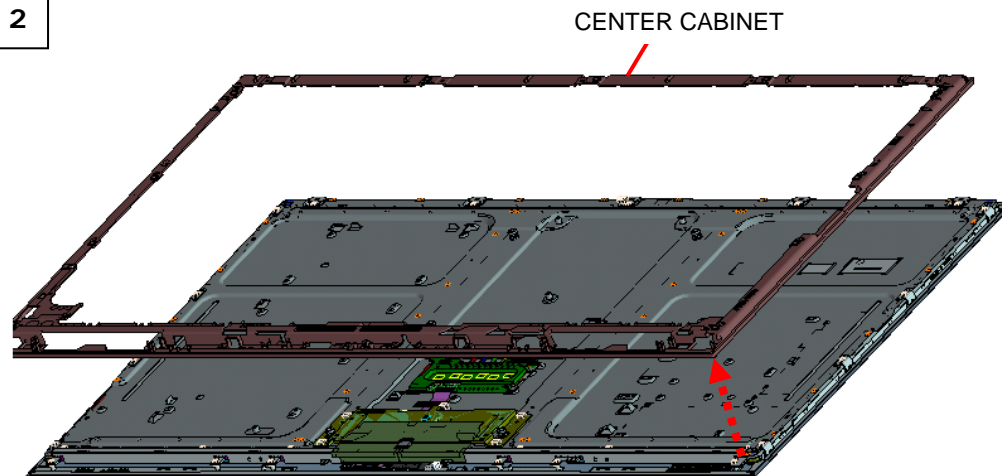
#### 1-3-16. CENTER CABINET

1



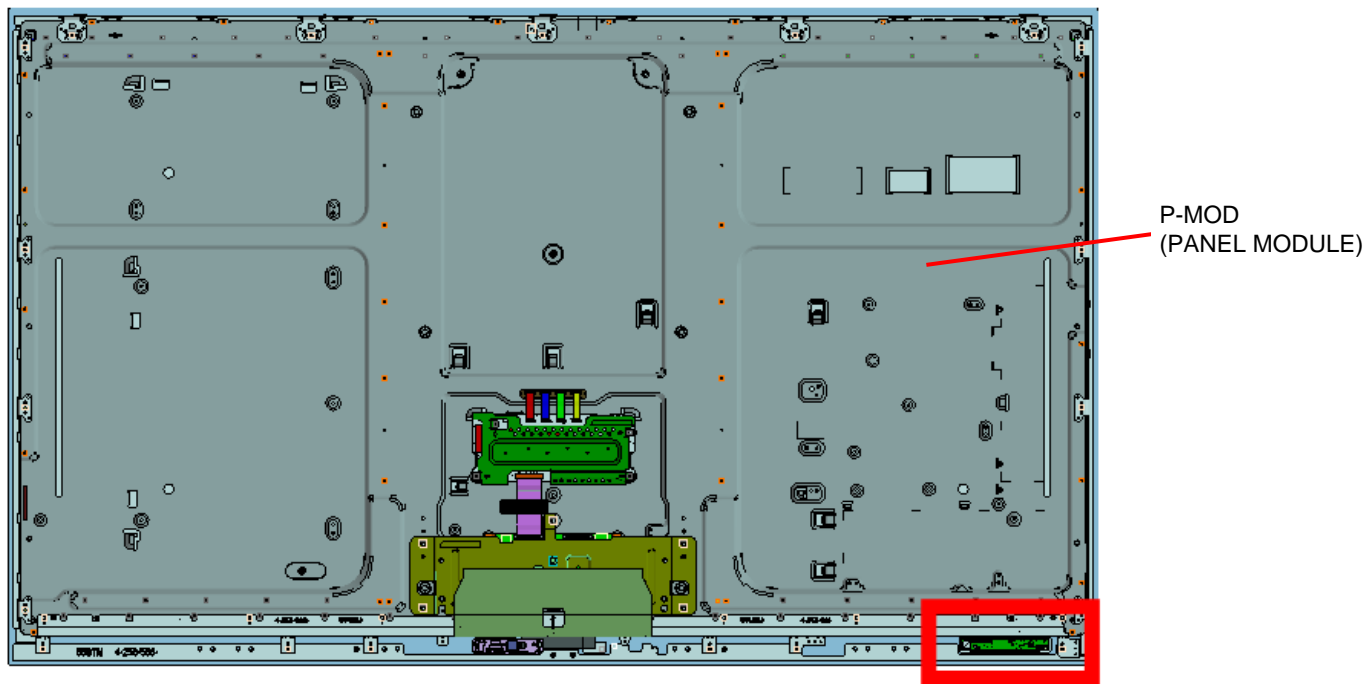
5 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901

2

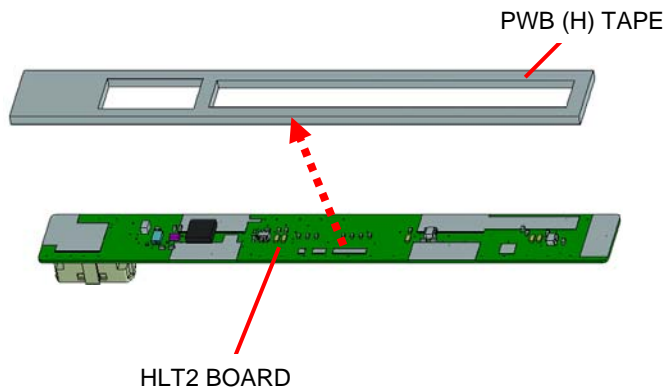


### 1-3. KDL-55NX720/723/725

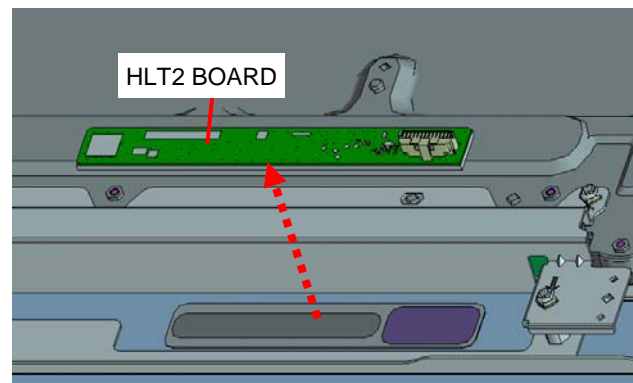
#### 1-3-17. HLT2 BOARD, PWB (H) TAPE AND PANEL MODULE



1

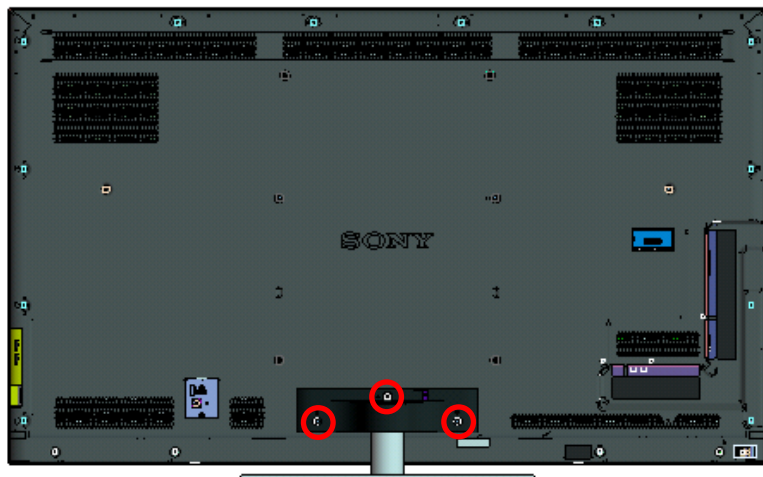


2

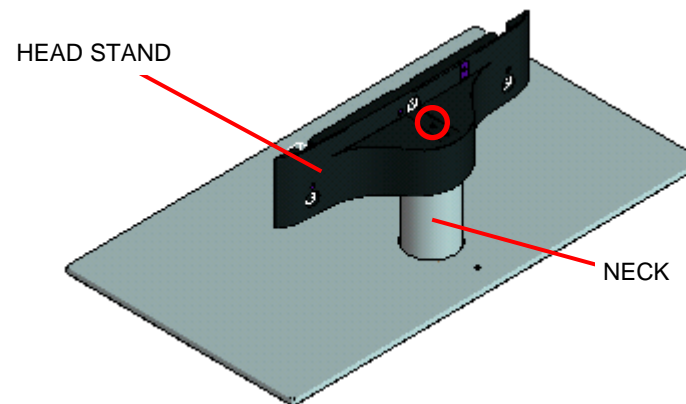


## 1-4. KDL-60NX720/723/725

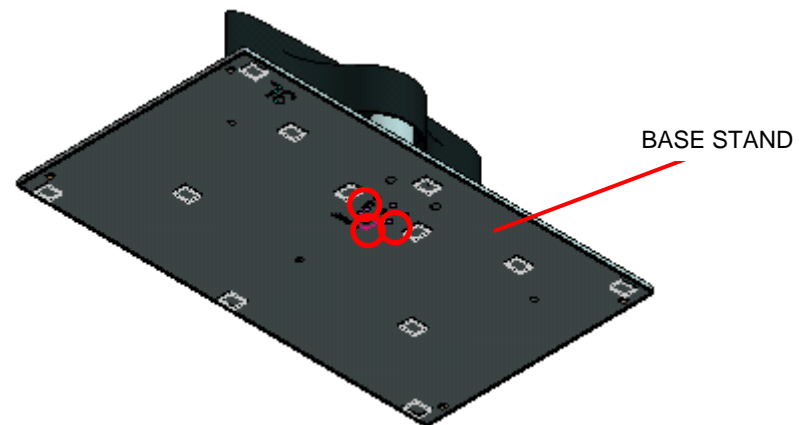
### 1-4-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



3 Screws (SCREW, +PSW M5X16) – Inside bag, screw assy



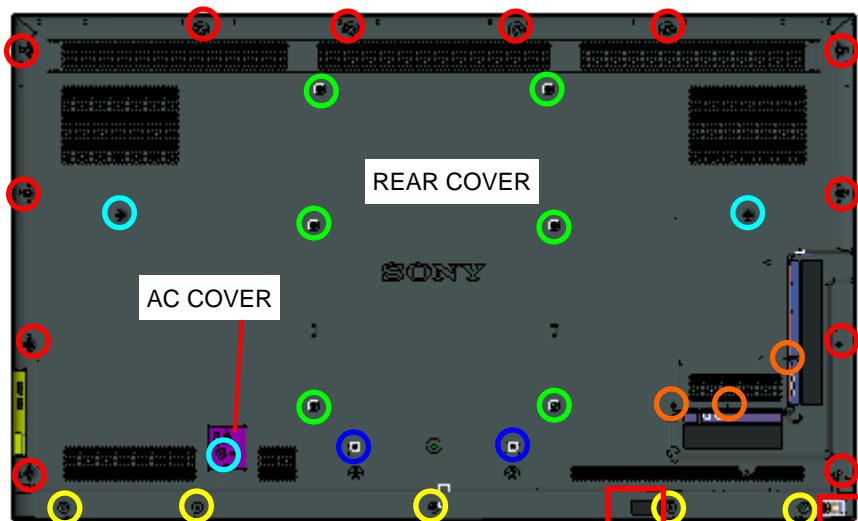
1 Screw (USER SCREW ST) – Inside bag, screw assy



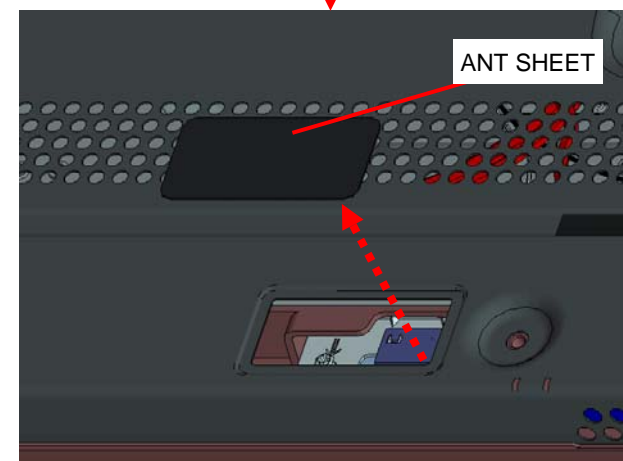
3 Screws (USER SCREW ST) – Inside bag, screw assy

### 1-4. KDL-60NX720/723/725

#### 1-4-2. REAR COVER, AC COVER, ANT COVER AND ANT SHEET

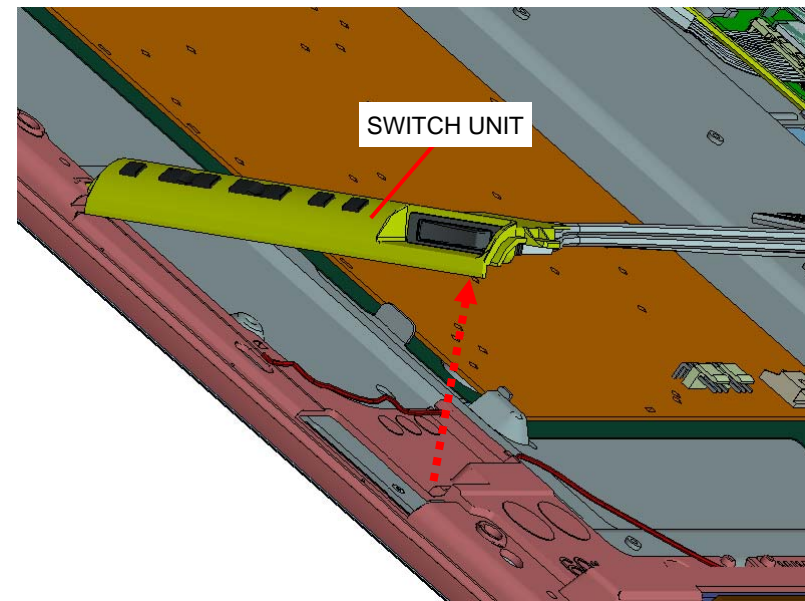
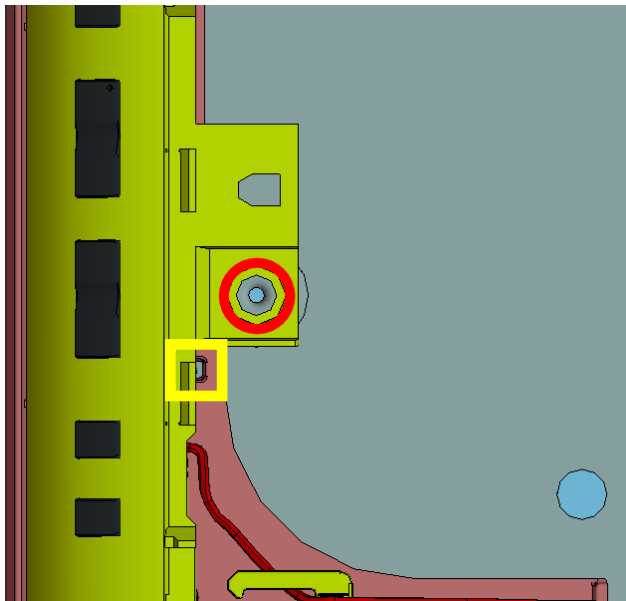


- 12 Screws (SCREW, +PWH M3X8) P/N: FX0020801
- 5 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 6 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006302
- 3 Screws (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0012779
- 2 Screws (JOINT, STAND) P/N: FX0002101
- 3 Screw (SCREW, +PSW M3X6 W12) P/N: FX0001901

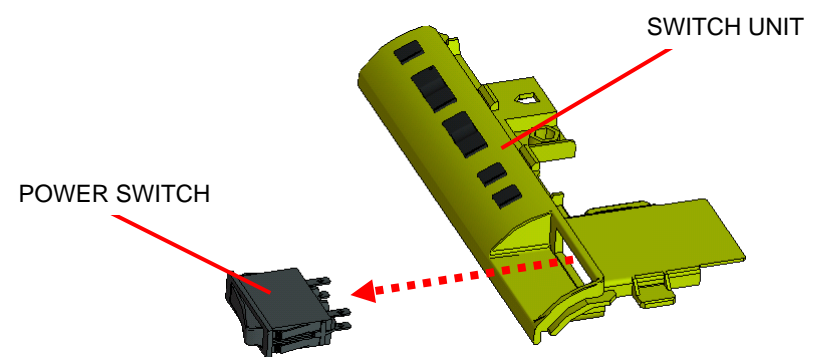
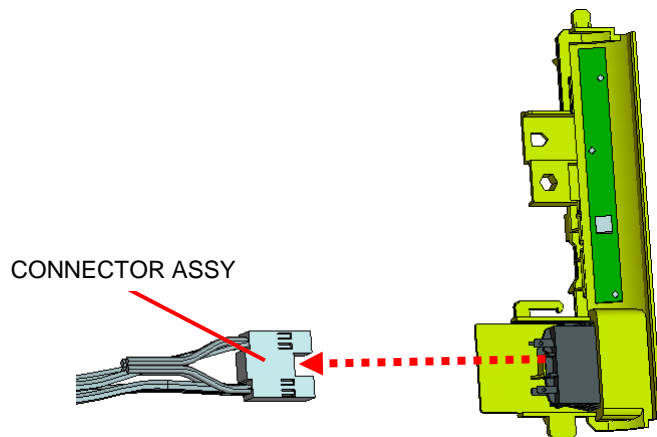


### 1-4. KDL-60NX720/723/725

#### 1-4-3. SWITCH UNIT AND POWER SWITCH



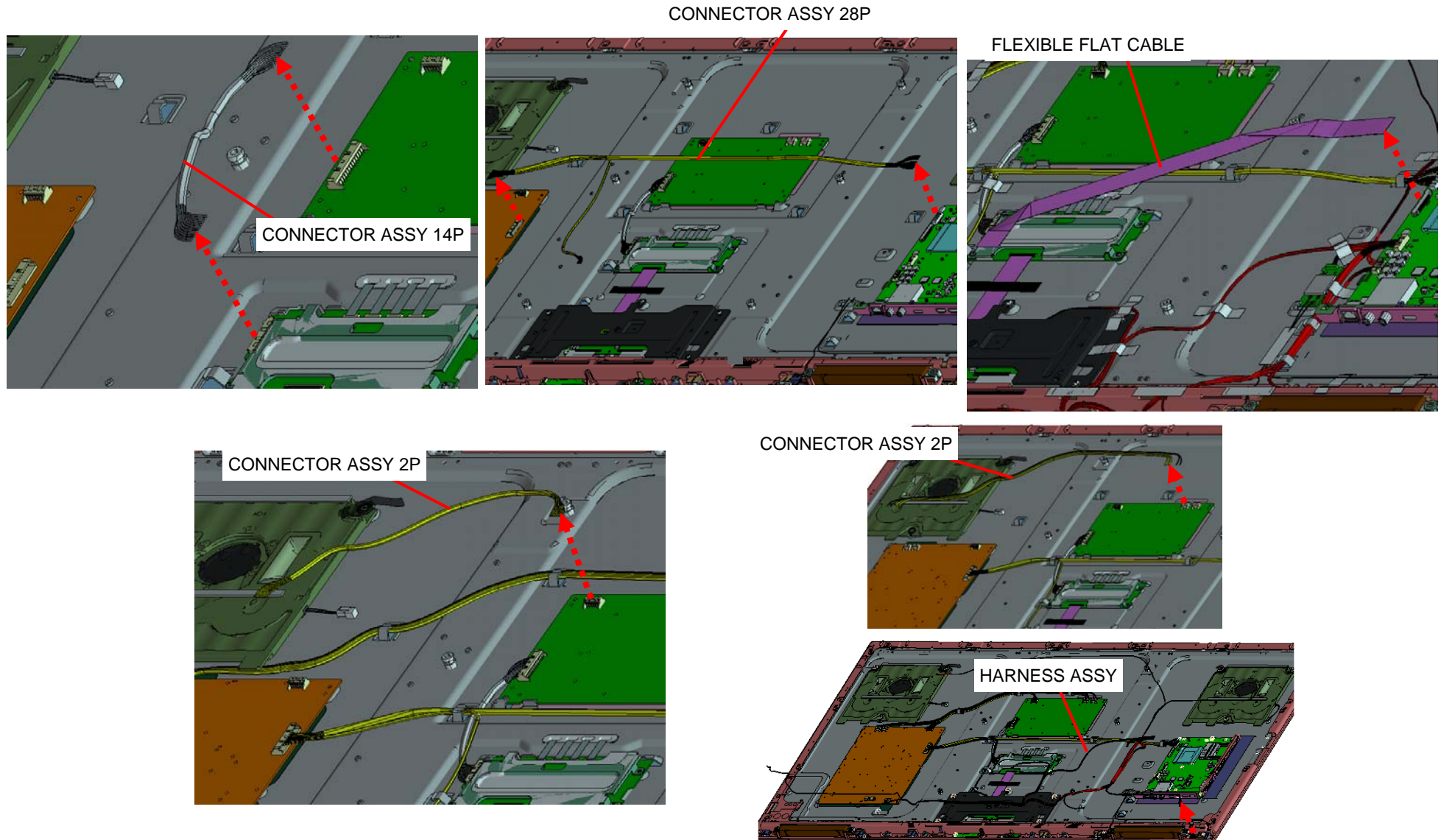
1 Screw (SCREW, +PWH M3X8) P/N: FX0020801





# 1-4. KDL-60NX720/723/725

## 1-4-4. HARNESS

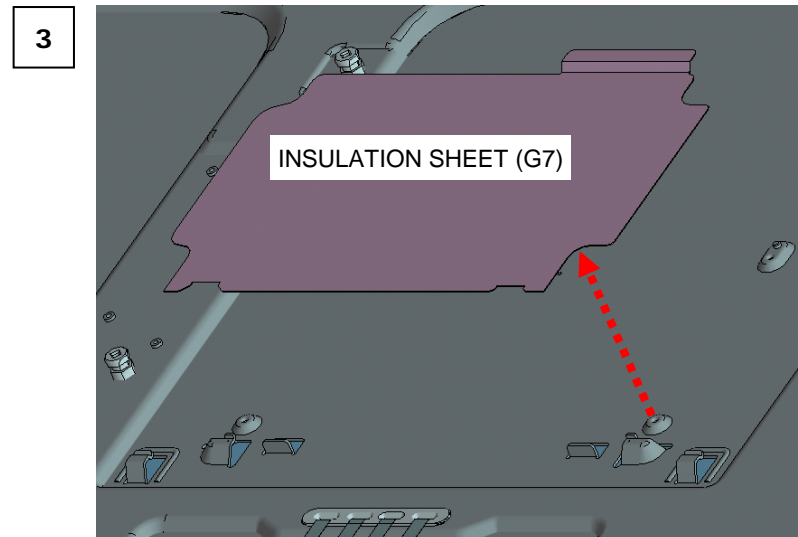


### 1-4. KDL-60NX720/723/725

#### 1-4-5. G7A BOARD

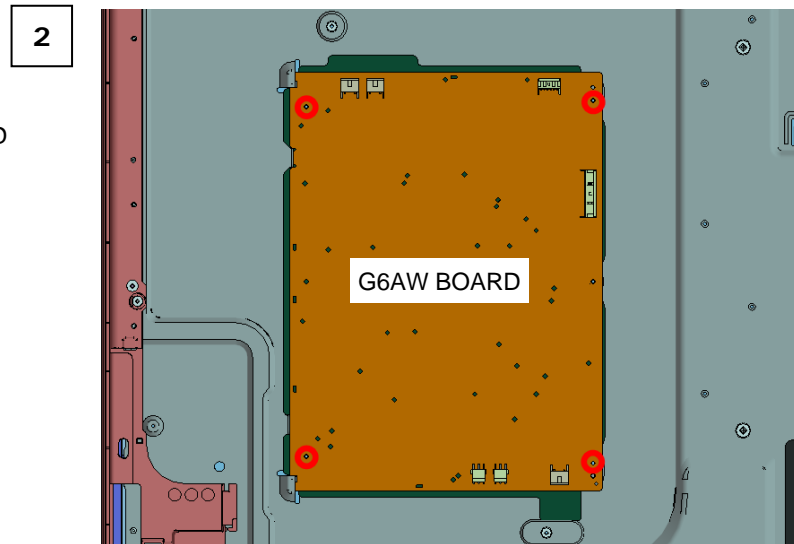
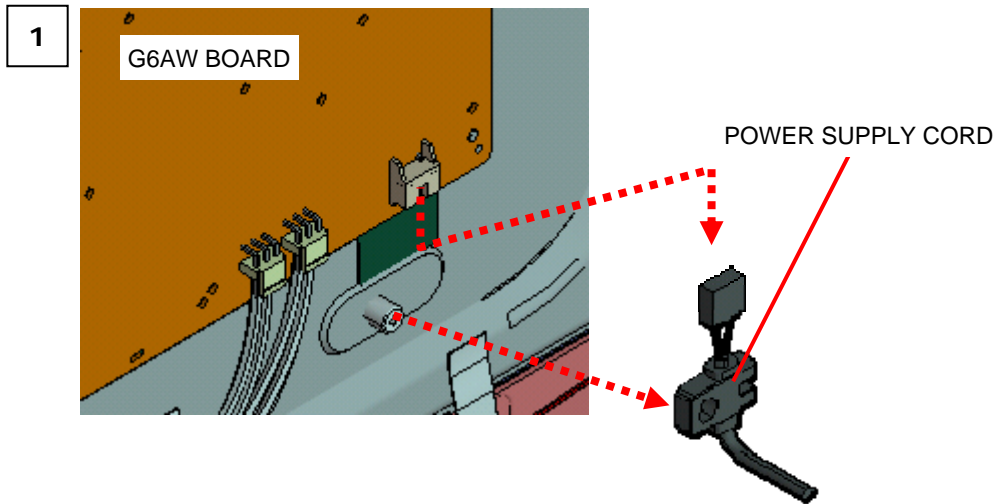


2 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

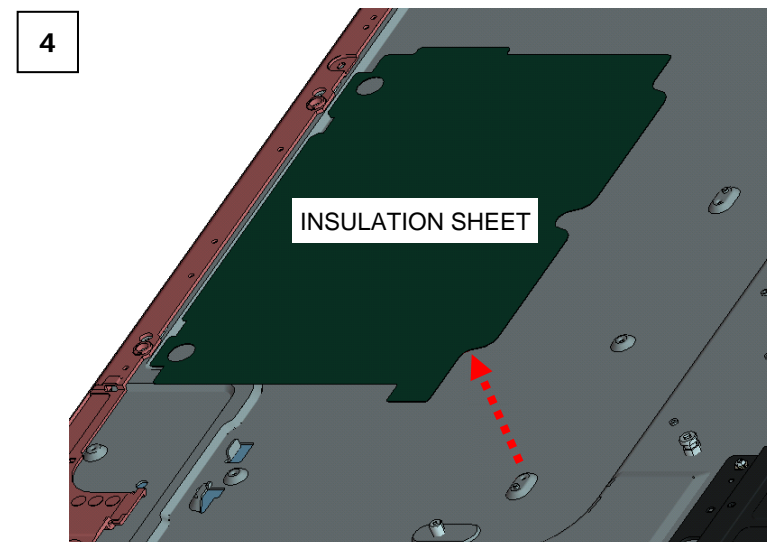
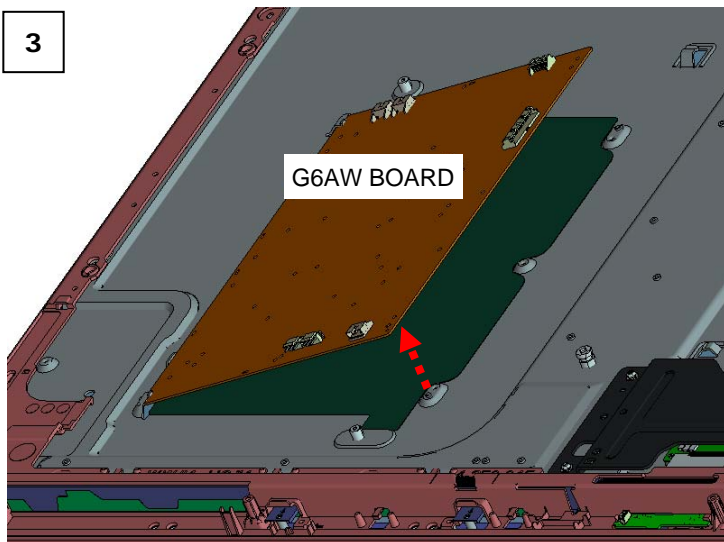


### 1-4. KDL-60NX720/723/725

#### 1-4-6. POWER SUPPLY CORD AND G6AW BOARD



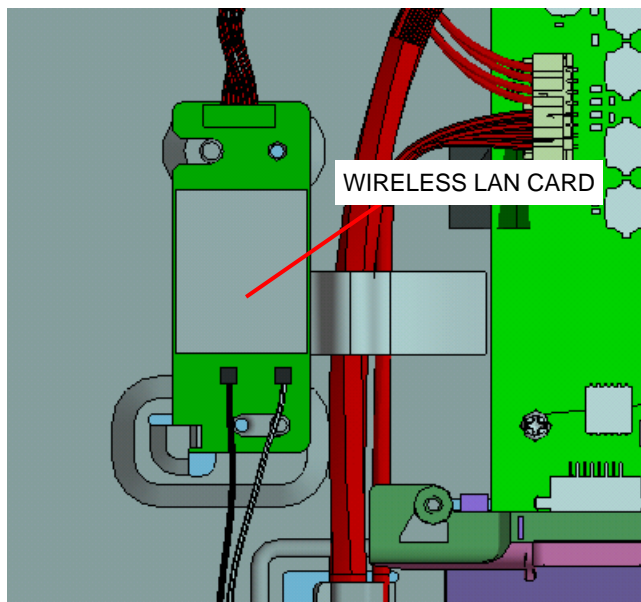
4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



### 1-4. KDL-60NX720/723/725

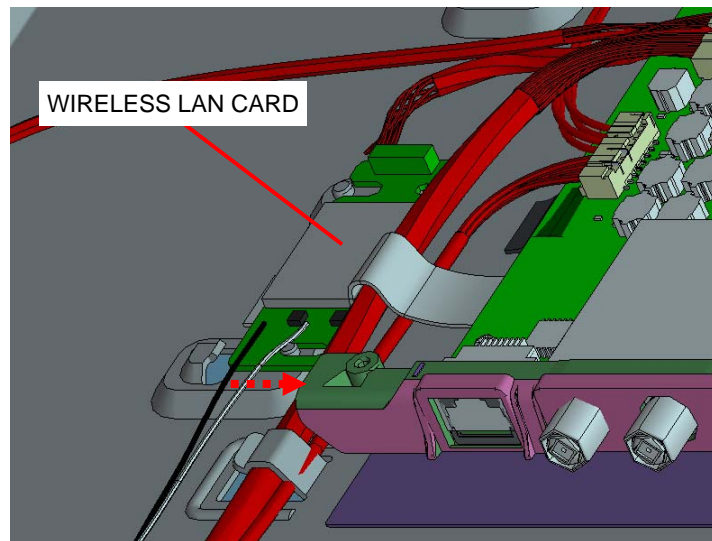
#### 1-4-7. WIRELESS LAN CARD

1

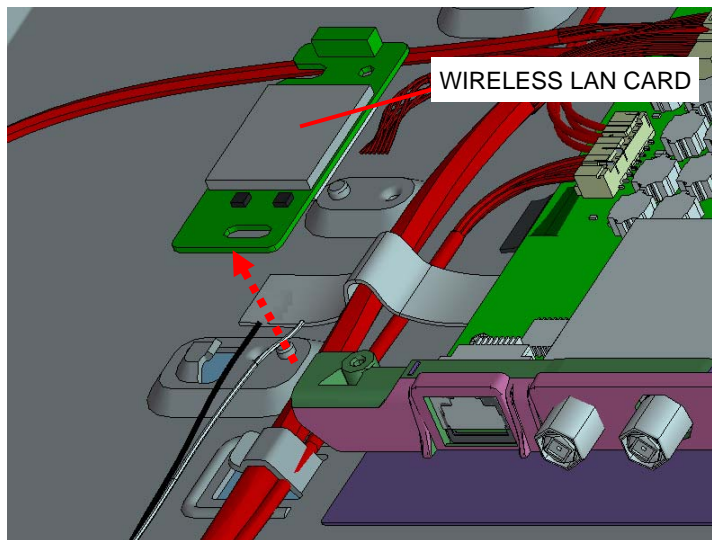


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

2

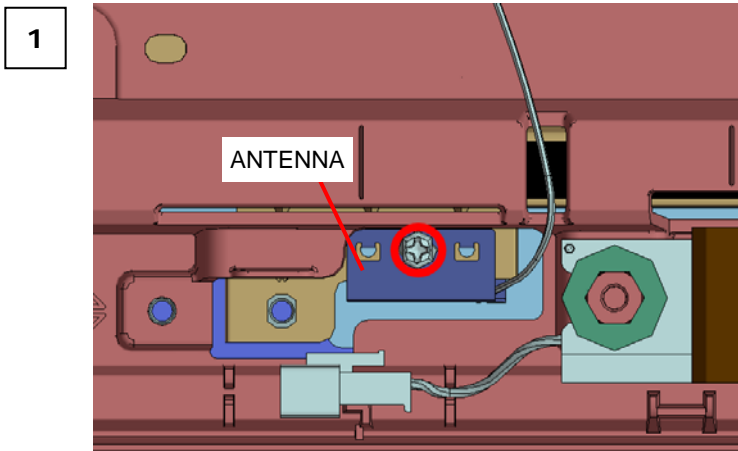


3

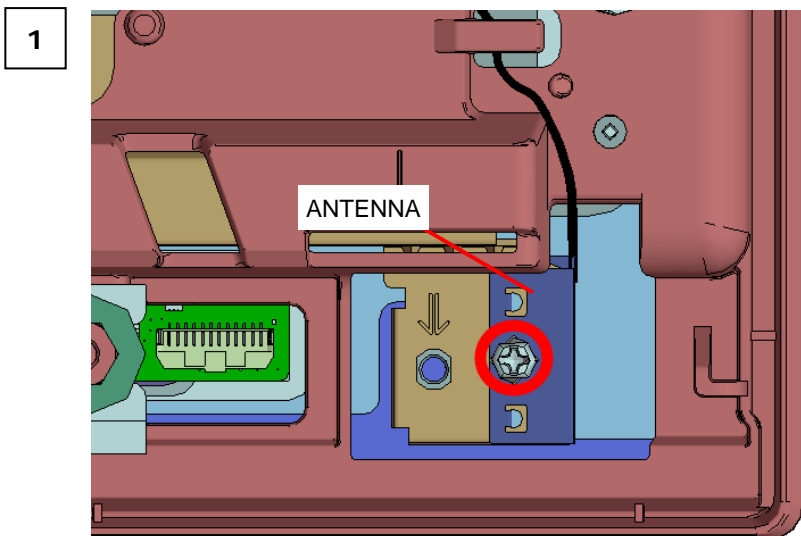
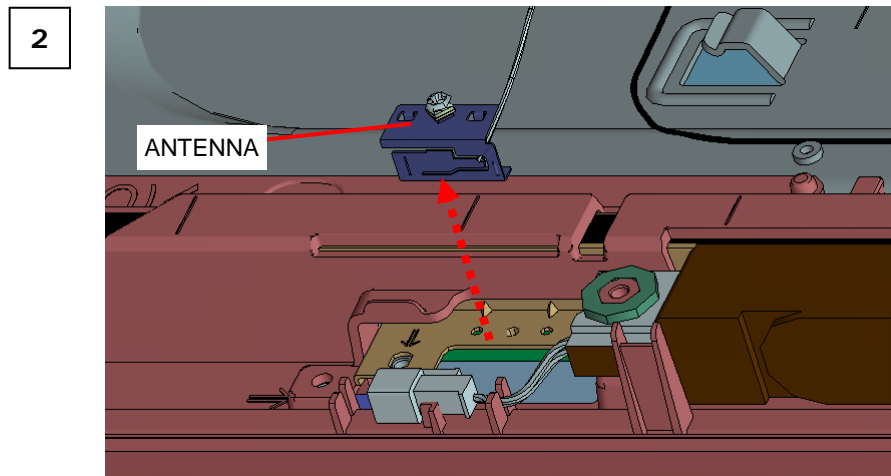


### 1-4. KDL-60NX720/723/725

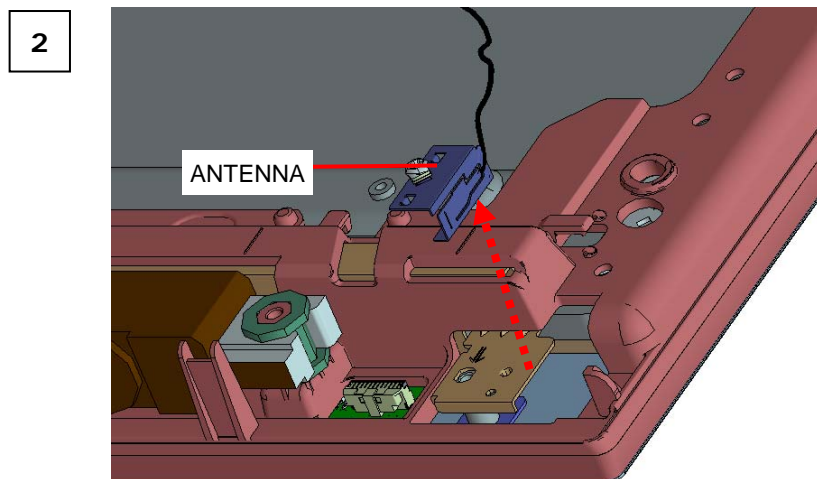
#### 1-4-8. ANTENNA



1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

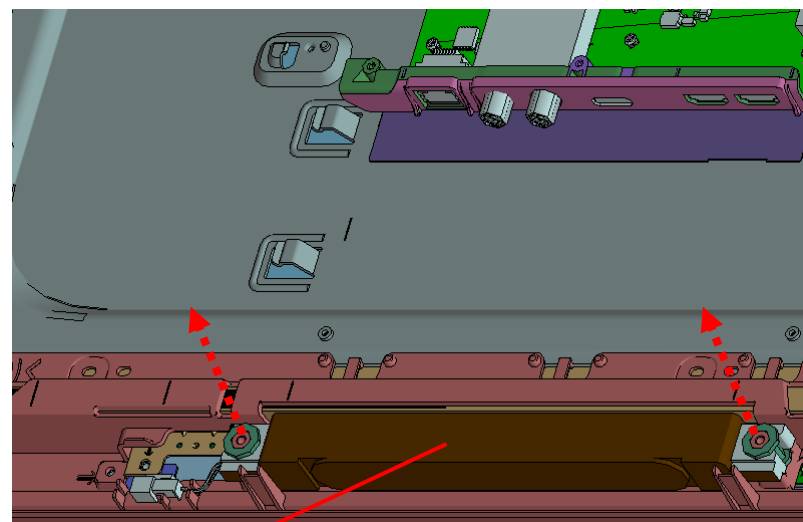
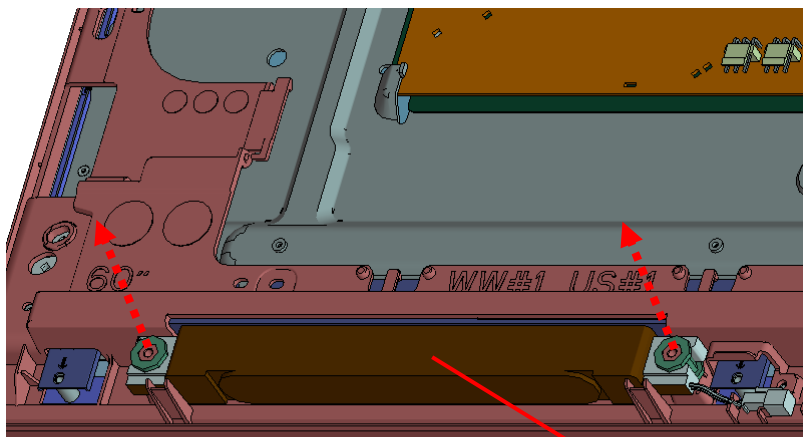


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



1-4. KDL-60NX720/723/725

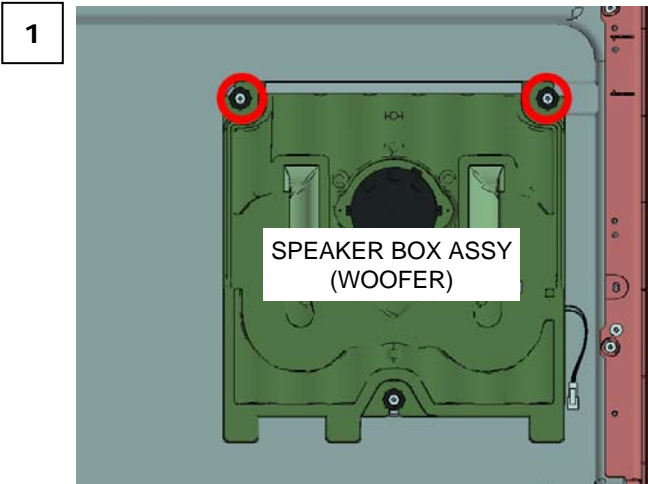
1-4-9. SPEAKER BOX ASSY



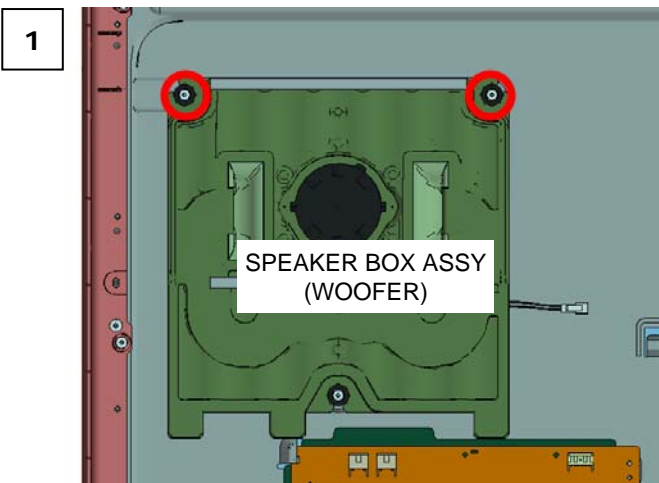
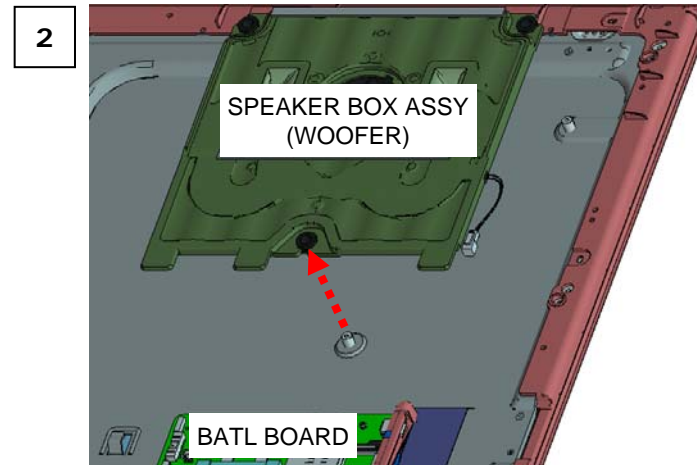
SPEAKER BOX ASSY

### 1-4. KDL-60NX720/723/725

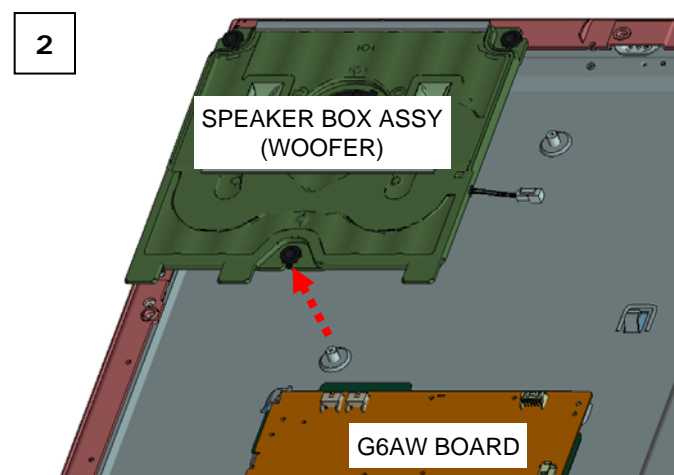
#### 1-4-10. SPEAKER BOX ASSY (WOOFER)



2 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901

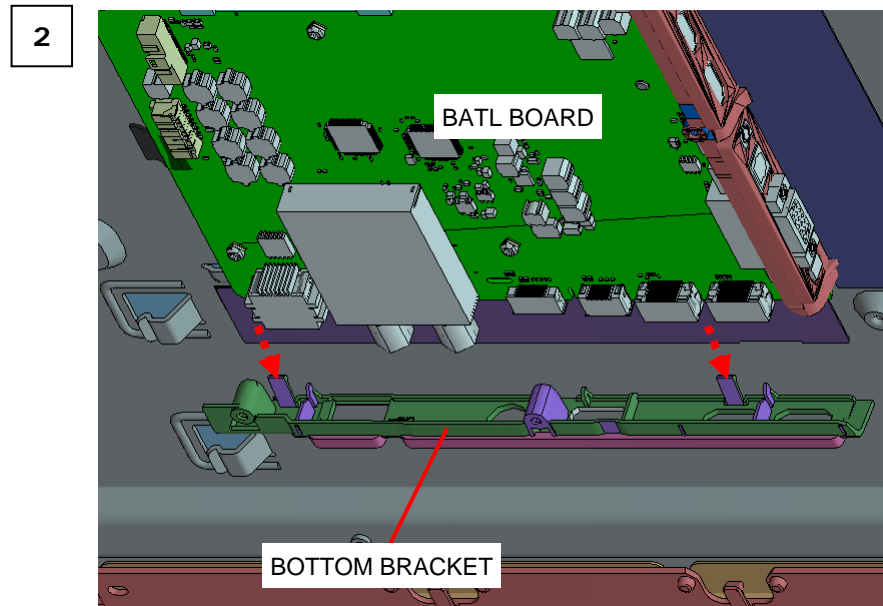
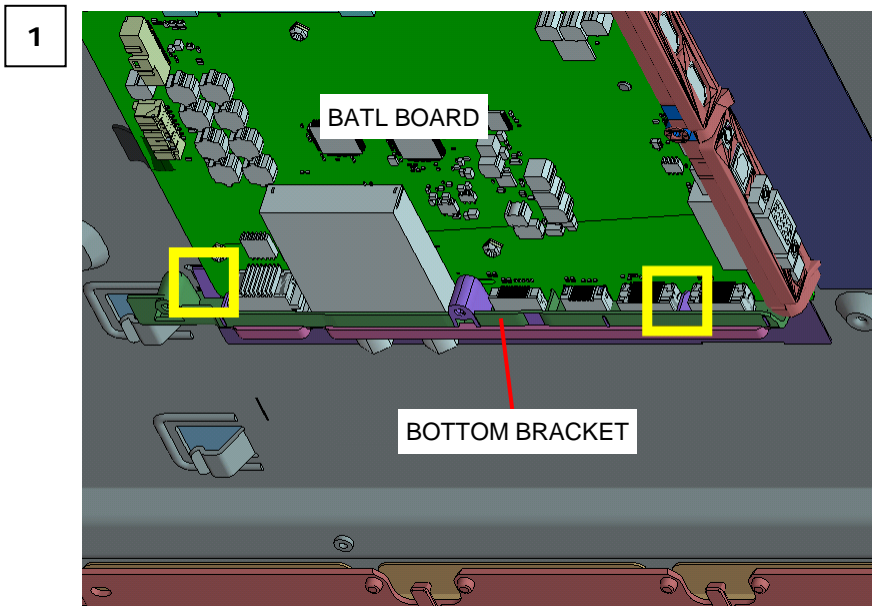


2 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901



1-4. KDL-60NX720/723/725

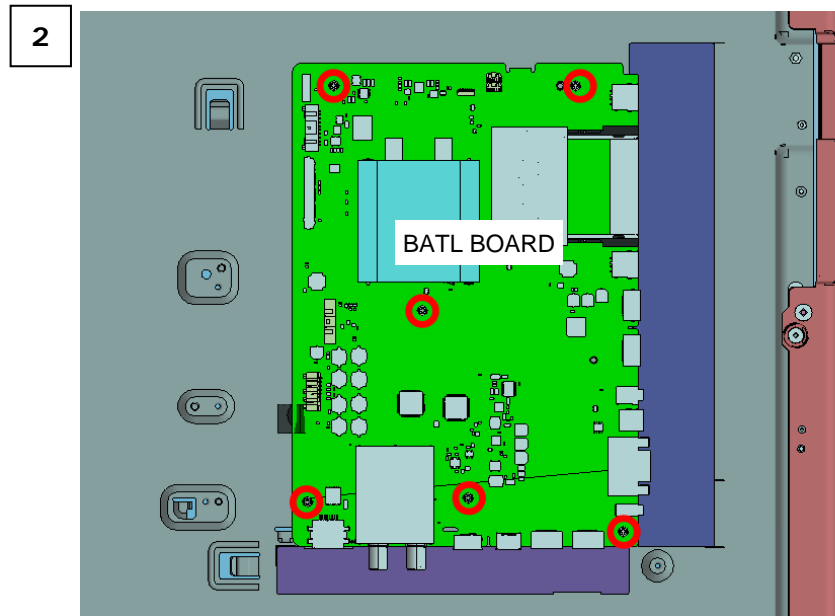
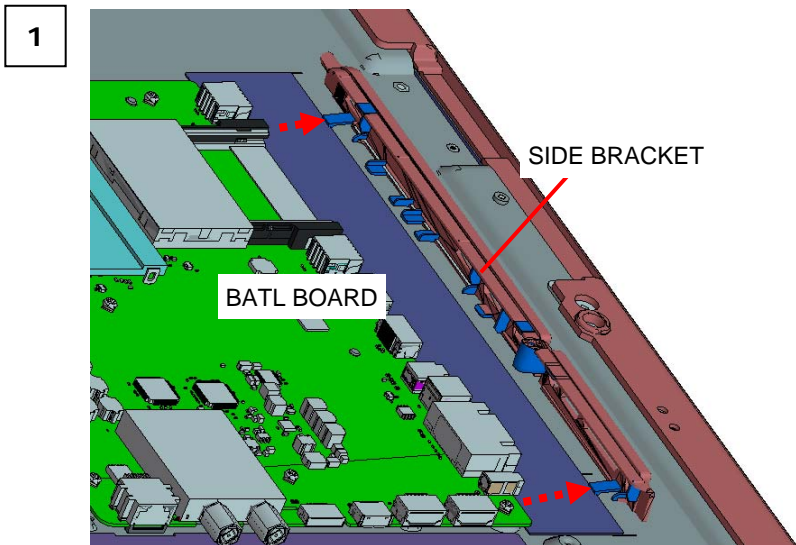
1-4-11. BOTTOM BRACKET



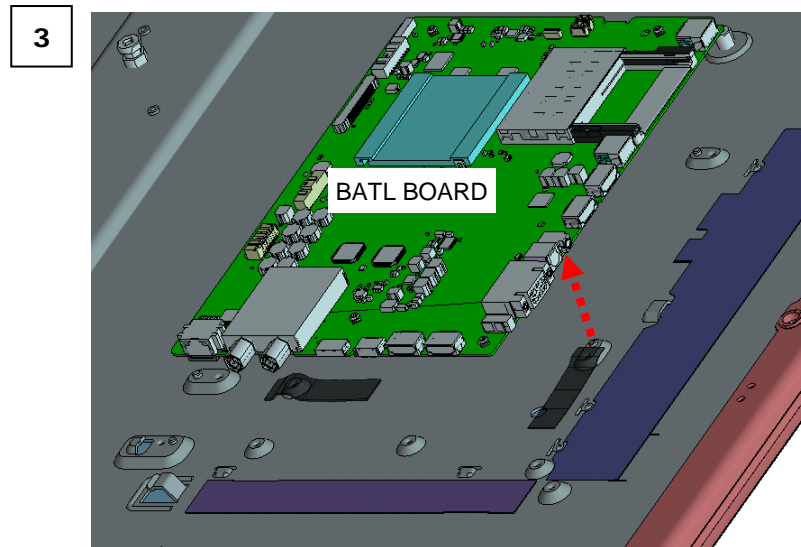


### 1-4. KDL-60NX720/723/725

#### 1-4-12. SIDE BRACKET AND BATL BOARD

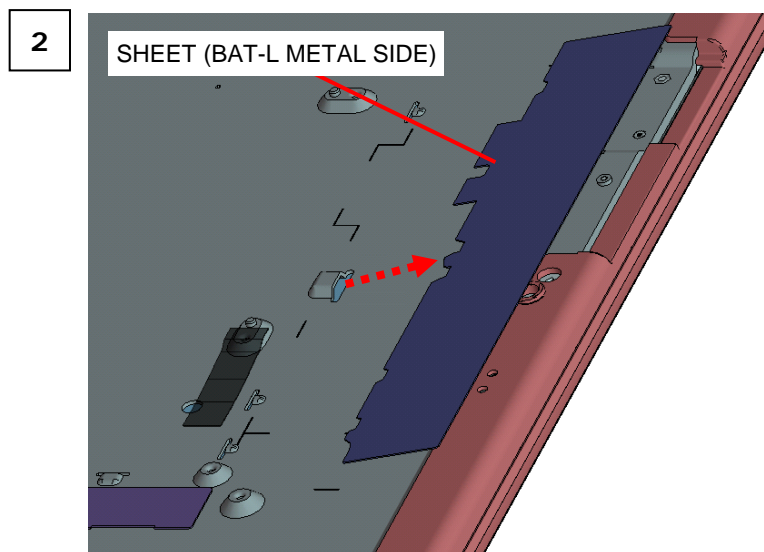
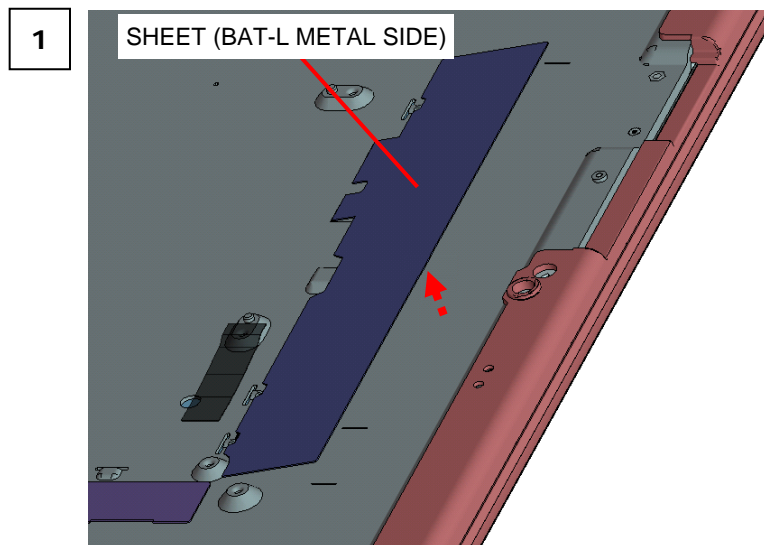
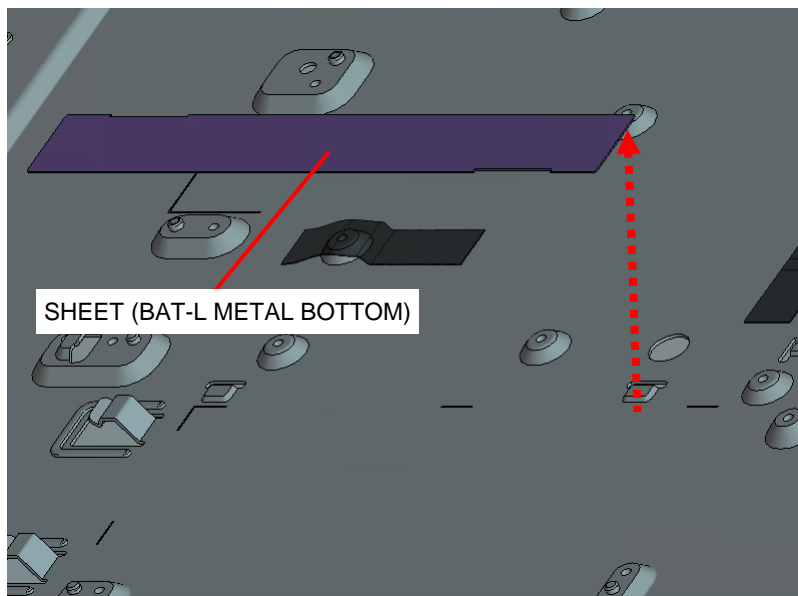


6 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



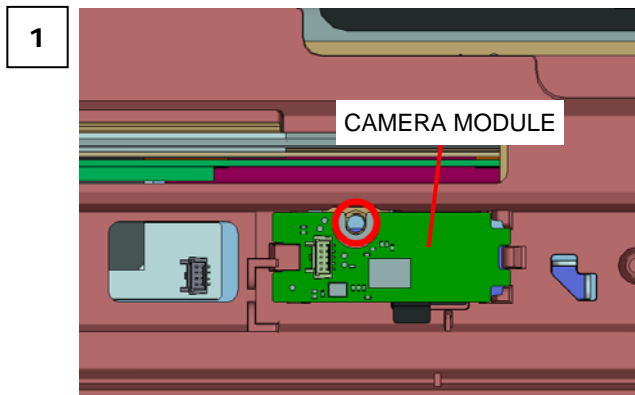
## 1-4. KDL-60NX720/723/725

## 1-4-13. SHEET

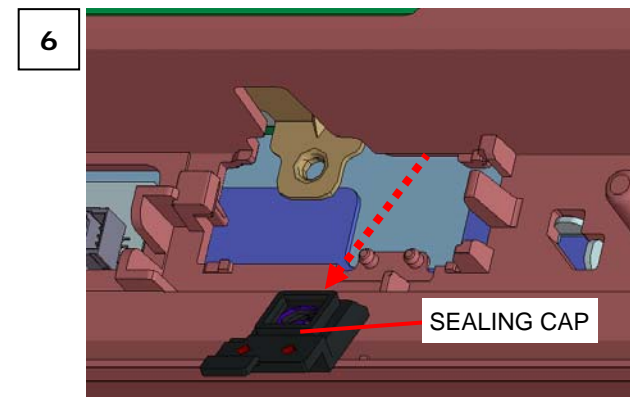
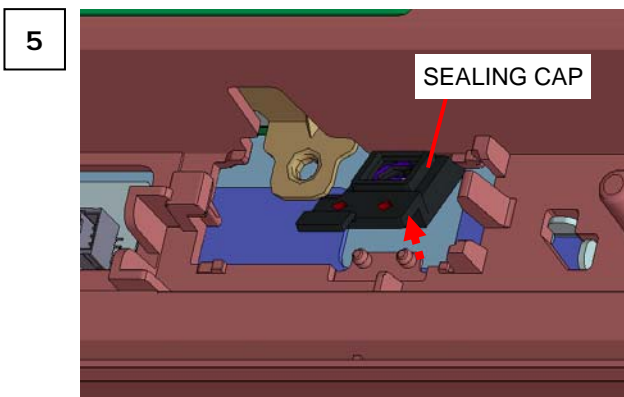
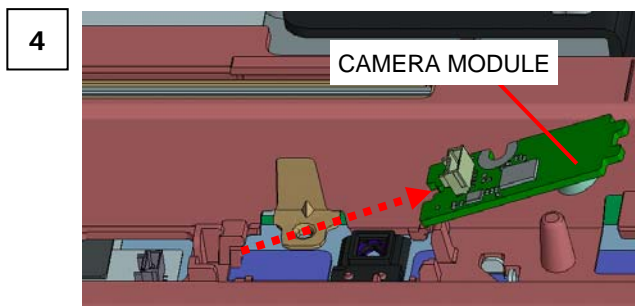
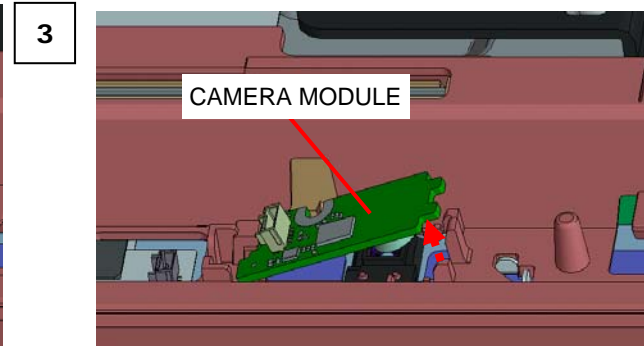
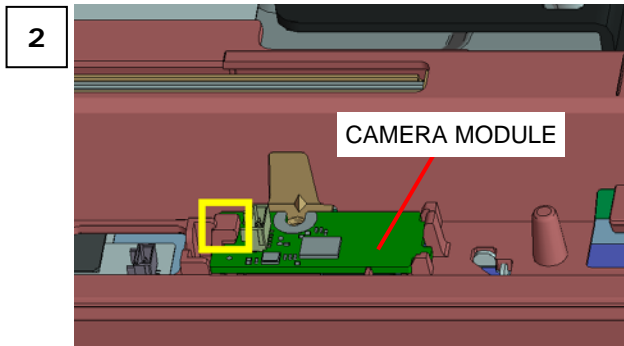


### 1-4. KDL-60NX720/723/725

#### 1-4-14. CAMERA MODULE AND SEALING CAP(CAMERA)

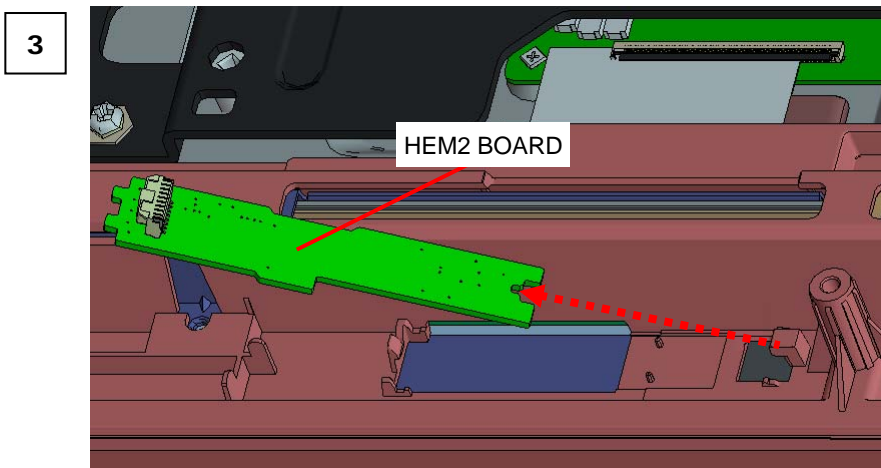
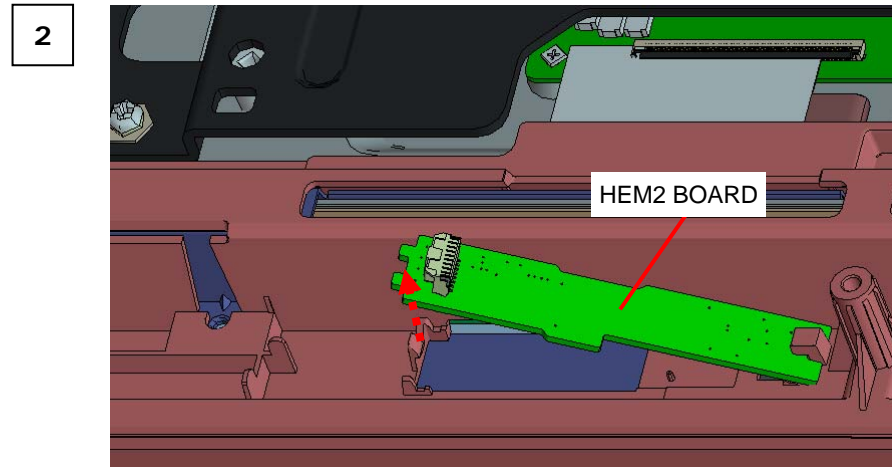
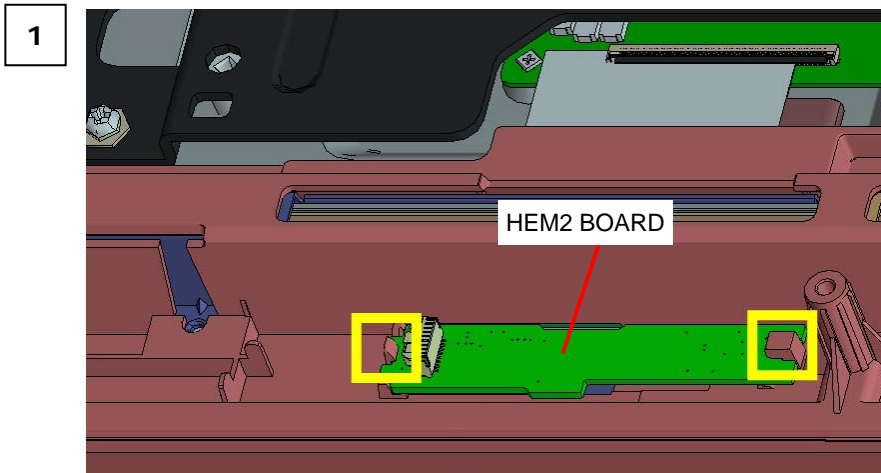


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341



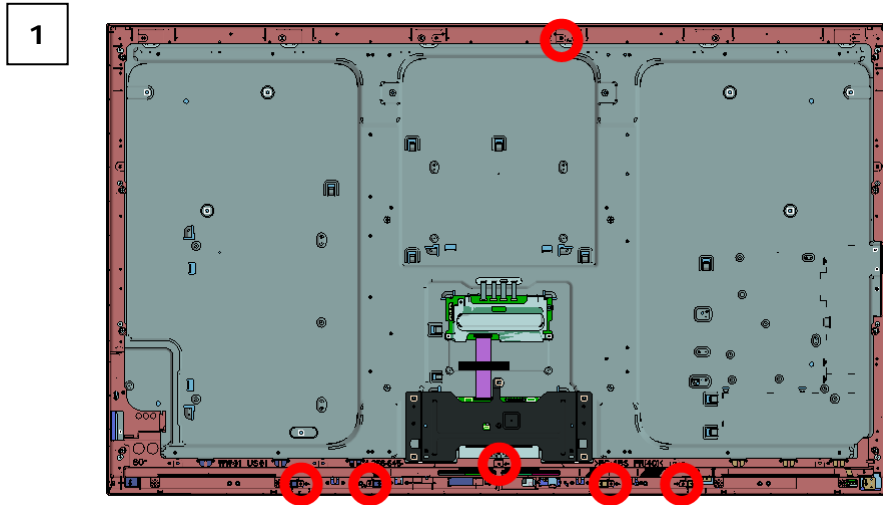
1-4. KDL-60NX720/723/725

1-4-15. HEM2 BOARD

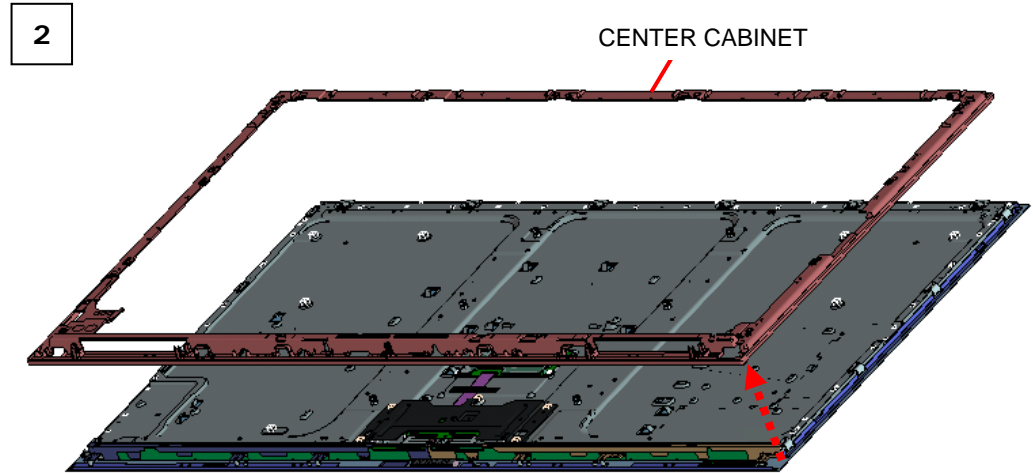


1-4. KDL-60NX720/723/725

1-4-16. CENTER CABINET

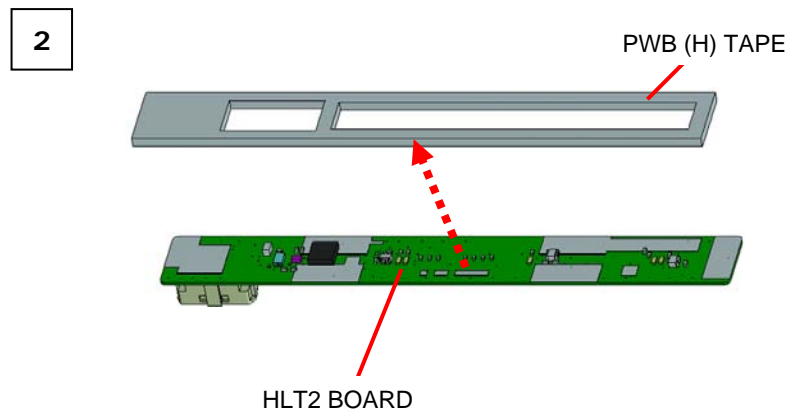
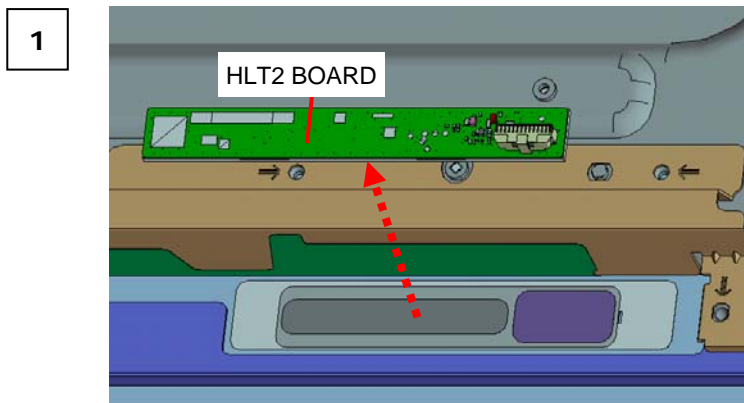


6 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901



### 1-4. KDL-60NX720/723/725

#### 1-4-17. HLT2 BOARD, PWB (H) TAPE AND PANEL MODULE



# SEC 2. ADJUSTMENT

## HOW TO ENTERING SERVICE MODE

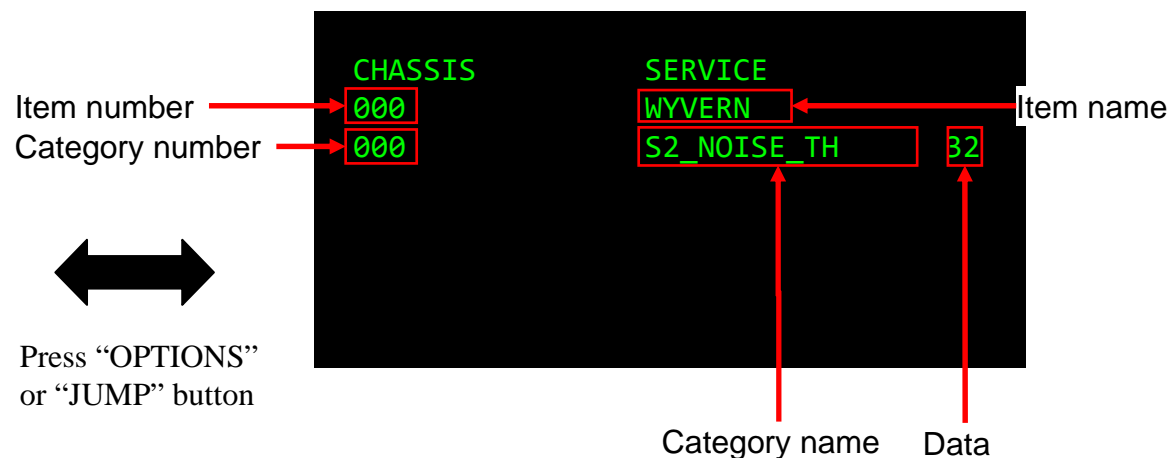
- 1) Turn on the main power switch to place this set in standby mode.
- 2) Press the buttons on the remote commander as follows, and entering service mode.

DISPLAY → Channel 5 → Volume + → TV POWER

- 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.



**WHITE BALANCE ADJUSTMENT**

Note: Please execute this adjustment if necessary.

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

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

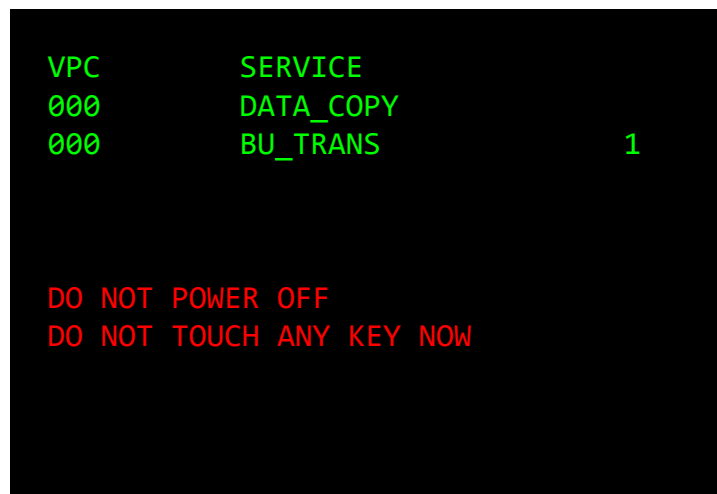
```
VPC      SERVICE
006      WB
005      B_BKG      128
```

**RESTORE WHITE BALANCE / GAMMA ADJ-DATA TO B BOARD**

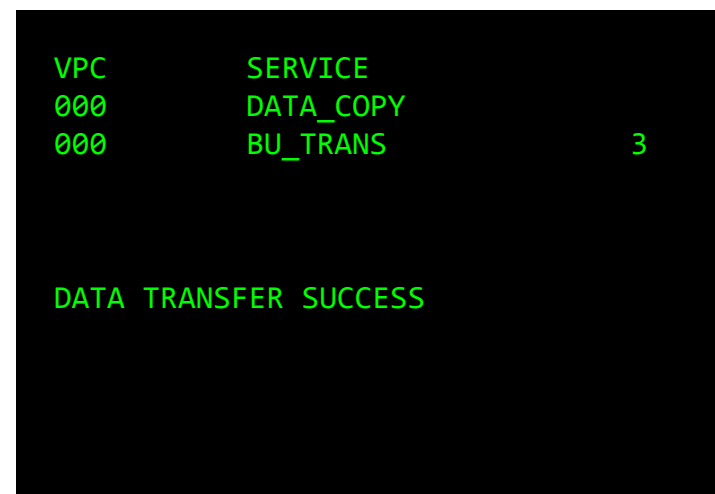
Note: **Please apply after USB-DL when B board is replaced.**

Change Data of “VPC” service mode.

- a. Select “010 DATA\_COPY” category by pressing “2 / 5” on remote.
- b. Change data from “0” to “1” by pressing “1 / 4” on remote.
- c. Wait until data is changed from 1 to 3.
- d. When data is changed from 1 to 3, restoring process is finished.
- e. In case data is changed from 1 to 2, keep default setting. (No more process is needed)



<Restore process>

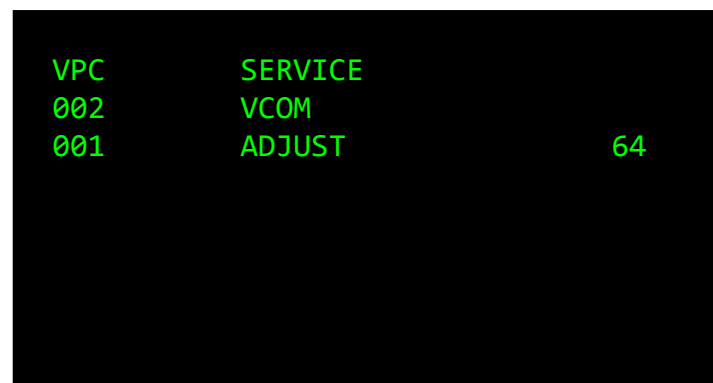
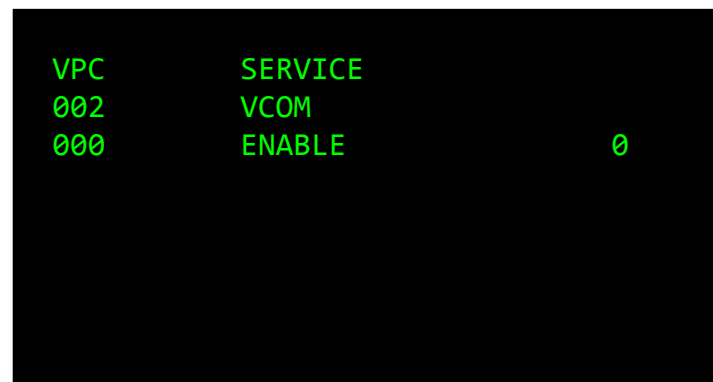


<End restore process>

**VCOM ADJUSTMENT (IMPORTANT – Only for S-LCD 60Hz Panels)**

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.

**SAVE CHANGING DATA**

- 1) Change Data of “Chassis” or “VPC” service mode
- 2) 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.
- 3) TV reboot is necessary for applying data change.

```
CHASSIS          WRITE
000              WYVERN
000              S2_NOISE_TH      32
```

**CHANGE DATA**

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

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

- a. Press “2 / 5” on remote to select (up / down) category.
- b. Press “1 / 4” on remote to select (up / down) Item.
- c. Press “0 / 10” on remote to select item.

```
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.

- a. Press “2 / 5” on remote to select “003 DIG\_SRV\_MODE”.
- b. Press “1 / 4” on remote to select (up / down) Item.
- c. Press “0 / 10” on remote to select item.
- d. Press number key “1”~”9” directly. “\*” stamp move.
- e. 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
```

3) Write data for “**Digital**” service mode. ( “002 MODEL” category)

Note: This procedure operation, when replaced the B board.

Note: Do not write a wrong segment or destination information in Product ID.

When the wrong setting is written, TV may not operate.

000 SEG -----Select JDM code information

001 DEST -----Select destination information

002 MODELNAME ---Select model name

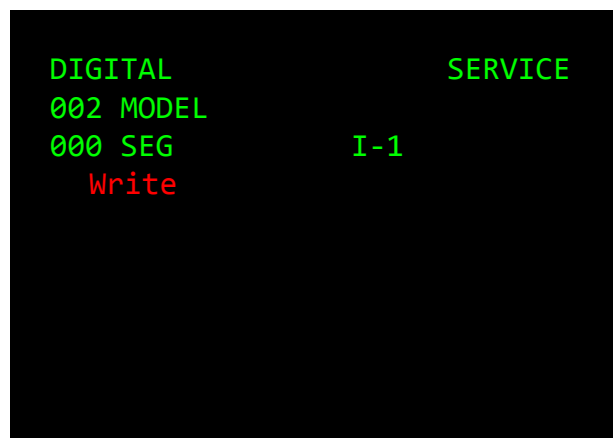
004 SERIAL ----- Can be set only once for the new board

a. Change data for each model.

b. Press “Mute”, “0” on remote sequentially.

It shows red “**WRITE**”. It indicate writing is processing.

c. After a while. Red “**WRITE**” disappears. Writing process is done after a while.



## 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.

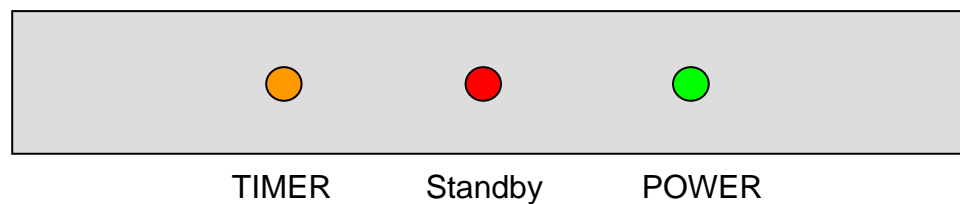
Added green **“EXE”** after green **“RST-”**.

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.

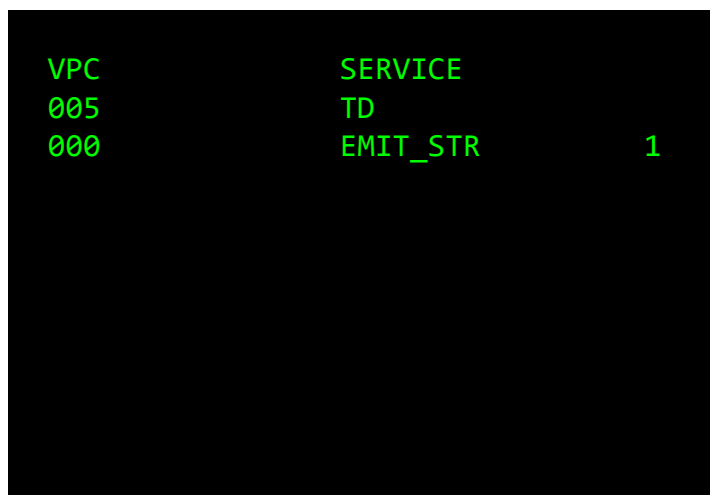
-> “Cursor Up” on remote + “Power Key” on Front panel.

## CHANGE THE EMITTER OUTPUT LEVEL

Note: To reduce the emitter LED output power strength.

Change Data of “VPC” service mode

- a. Select “005 TD” category by pressing “2 / 5” on remote.
- b. Select “000 EMIT\_STR” item by pressing “1 / 4” on remote.
- c. Change data from “0” to “1” by pressing “3 / 6” on remote.
  - 0: Strong (Default)
  - 1: Weak
- d. Save by pressing “Mute” + “0” or ”10” & Reboot.





## HDD REC SETTING

### 1) Key Copy

Change Data of “**Digital**” service mode

- a. Select “003 DIG\_SRV\_MODE” category by pressing “2 / 5” on remote.
- b. Select “006 REC SETTING” item by pressing “1 / 4” on remote.
- c. Press “0” or “10” to go to detailed REC Setting screen.
- d. Press “1” to select “Key Copy” item.
- e. Press “Enter” or “12” twice to execute the command.
- f. If OK, show the message “Key Copy OK”  
If NG, show the message “Key Copy NG (= xx)”

```
DIGITAL (REC_SETTING)      SERVICE
REC_SETTING
*1 Key Copy
 2 HDD Re-Register
Key Copy OK
```

```
DIGITAL (REC_SETTING)      SERVICE
REC_SETTING
*1 Key Copy
 2 HDD Re-Register
Key Copy NG (= xx )
```

### 2) HDD Re-Register

- a. Press “2” to select “HDD Re-Register” Item.
- b. Press “Enter” or “12” twice to execute the command.
- c. If OK, xx= x+1  
If NG, xx=x

```
DIGITAL (REC_SETTING)      SERVICE
REC_SETTING
 1 Key Copy
*2 HDD Re-Register
(x) HDDs OK ( xx )
```

# SEC 3. TROUBLE SHOOTING

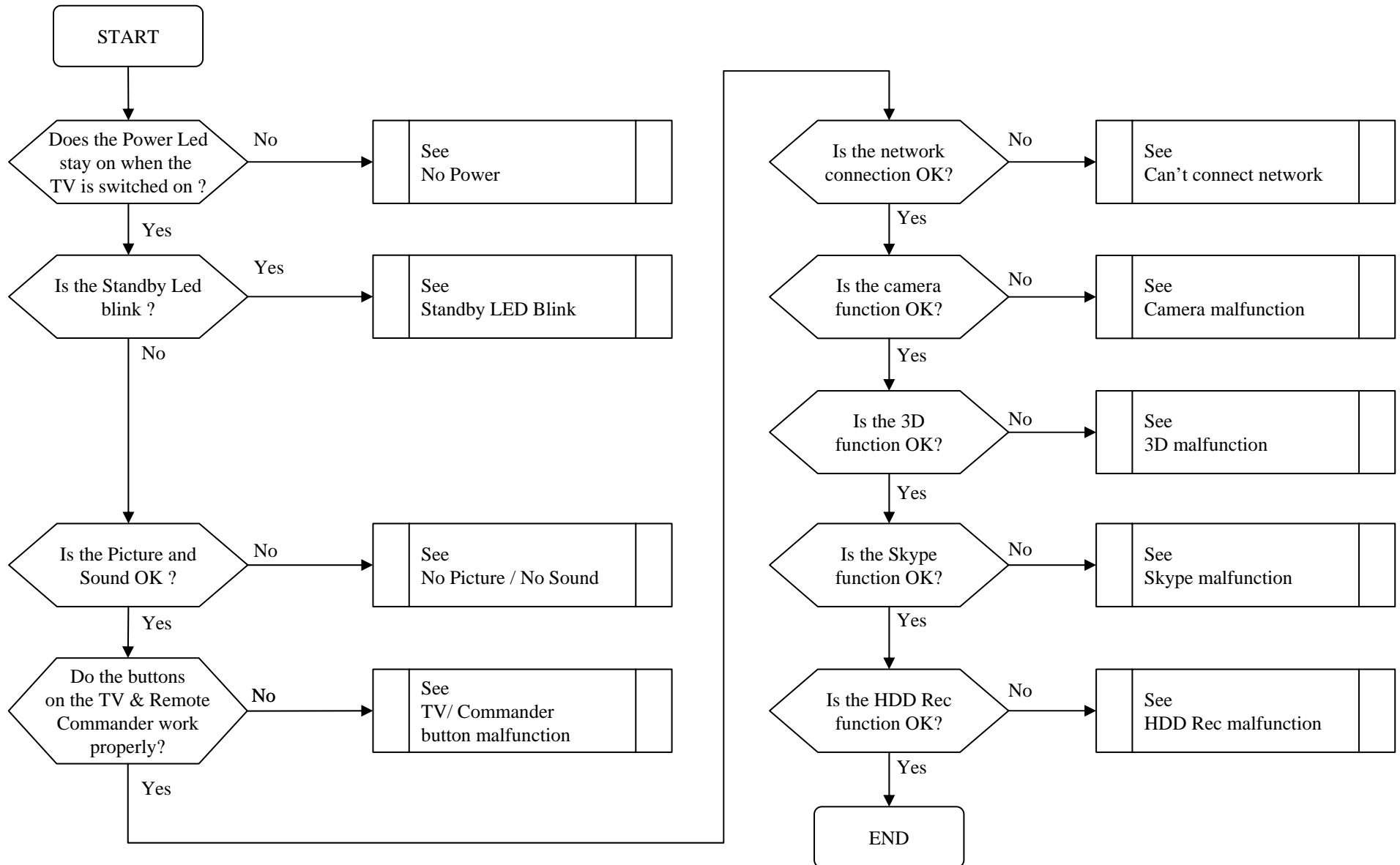
## 3-1. TRIAGE CHART

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

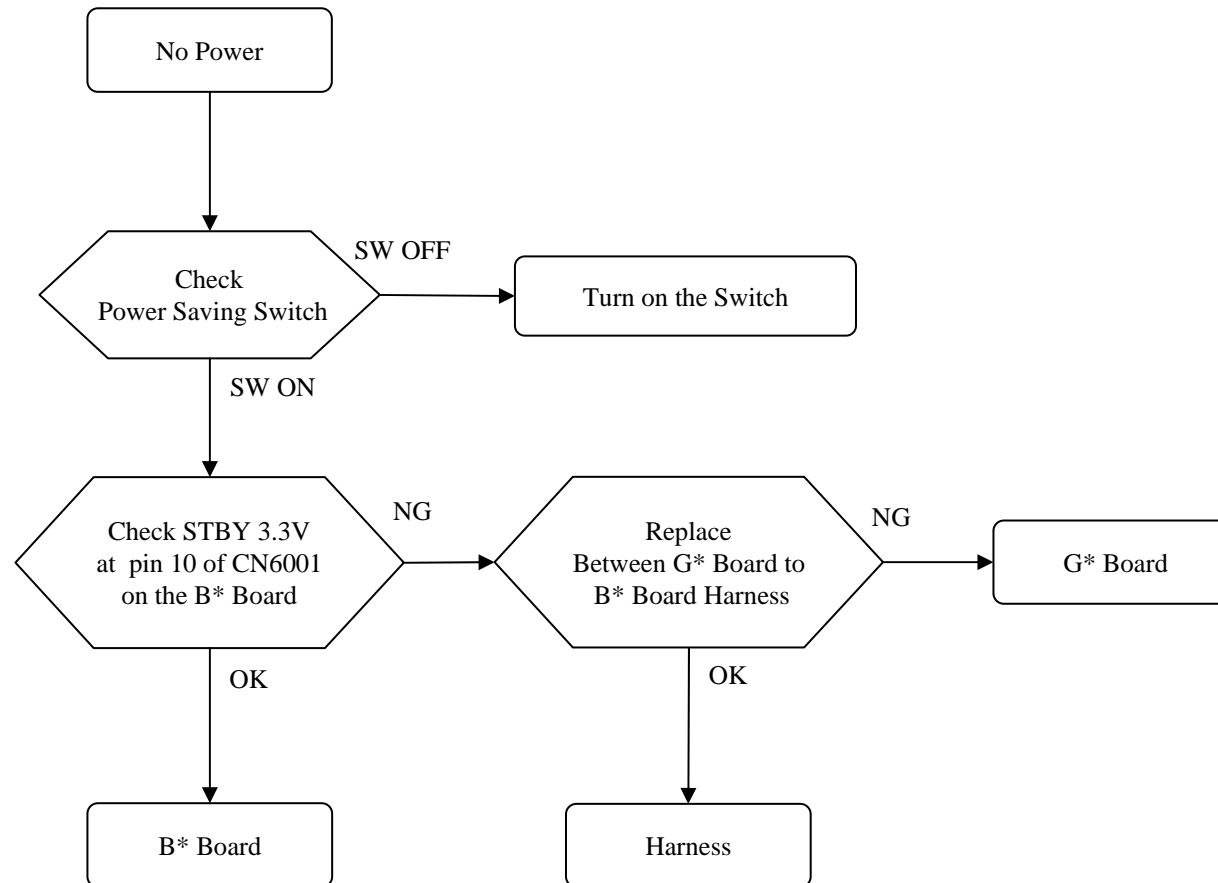
Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences								No Power	Video - missing or distorted			Remote	Network	Audio	Skype
	2	3	4	5	6	7	8	10	No Green Power LED (Dead Set)	Stationary colored lines or dots	No video one of Inputs	No video all Inputs	No Remote	Wireless can't connect	No Audio	Skype Can't Work
BATL BOARD	▲	●	▲	▲	▲	●	●		▲	▲	●	●	▲	▲	●	▲
G* BOARD	●	▲	▲	▲	●				●						▲	
HLT2 BOARD				▲				●					●			
SPEAKER		▲													●	
Skype MODULE																●
WIFI MODULE								●						●		▲
LD BOARD			●		▲											
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

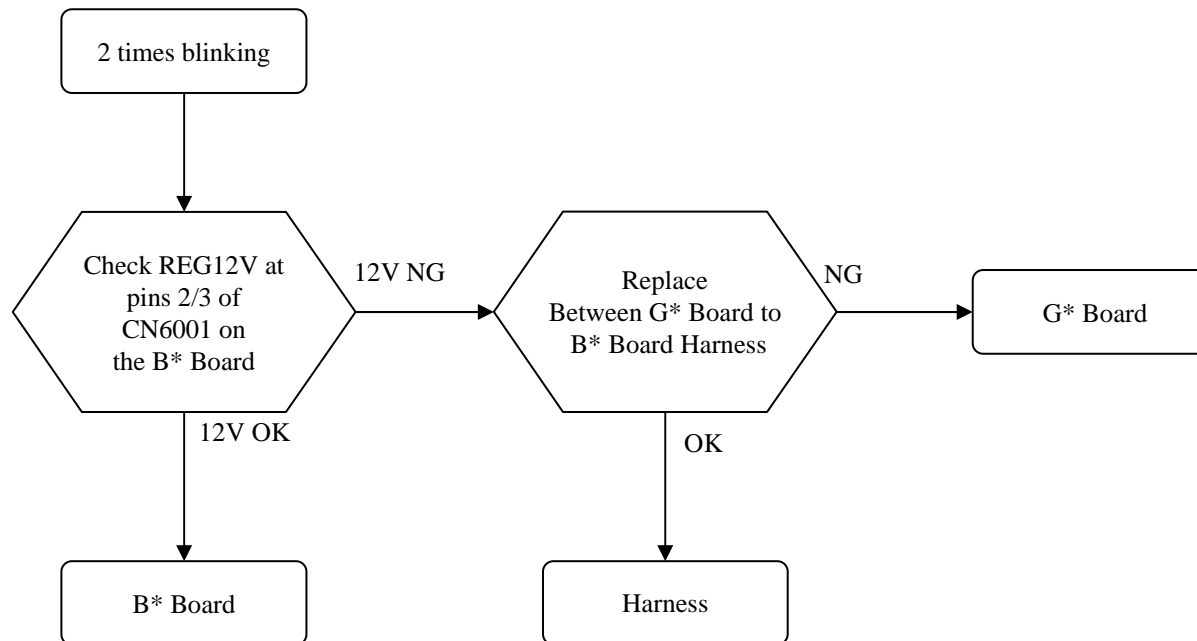


## 3-3. NO POWER

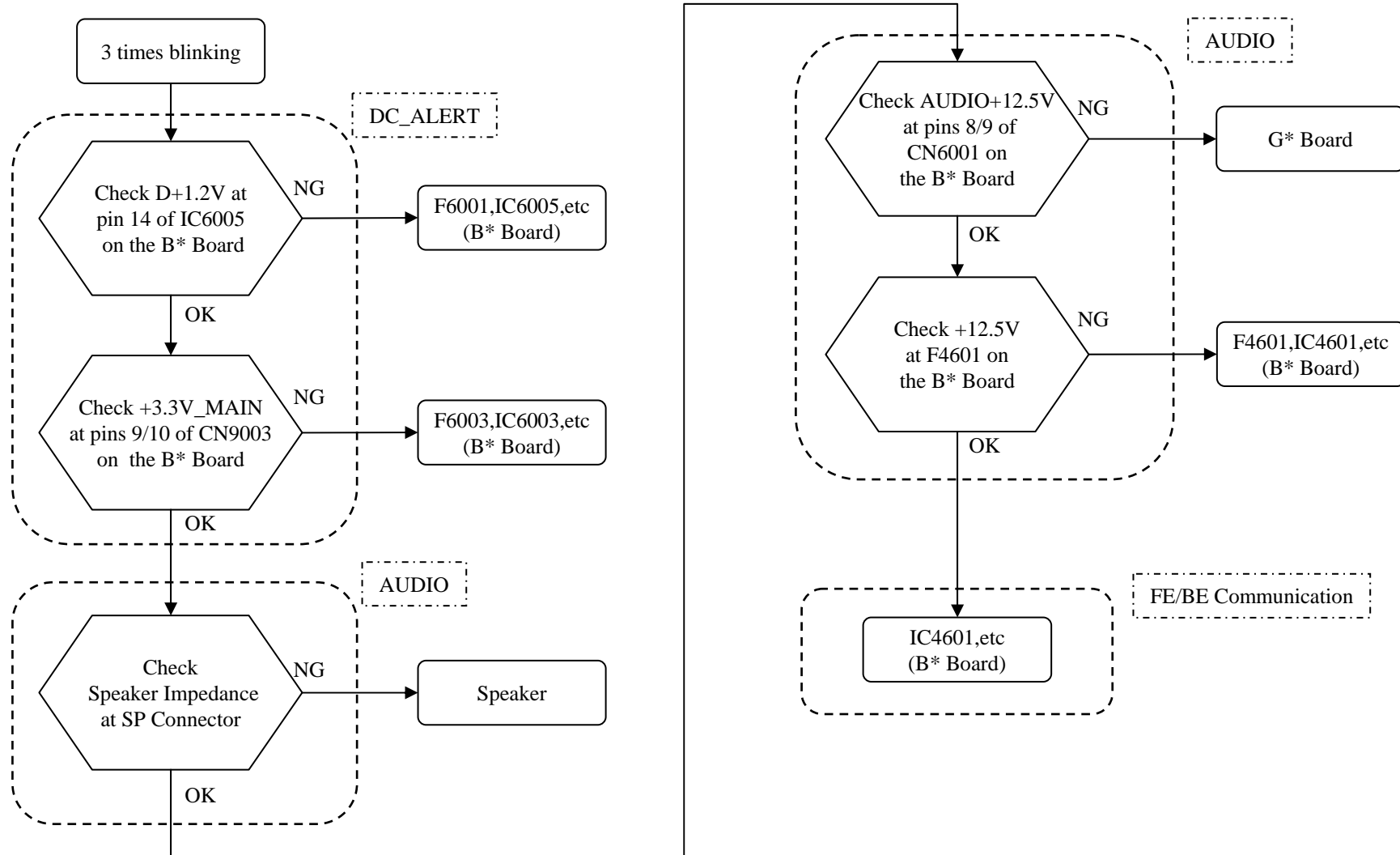


### 3-4. STANDBY LED BLINK

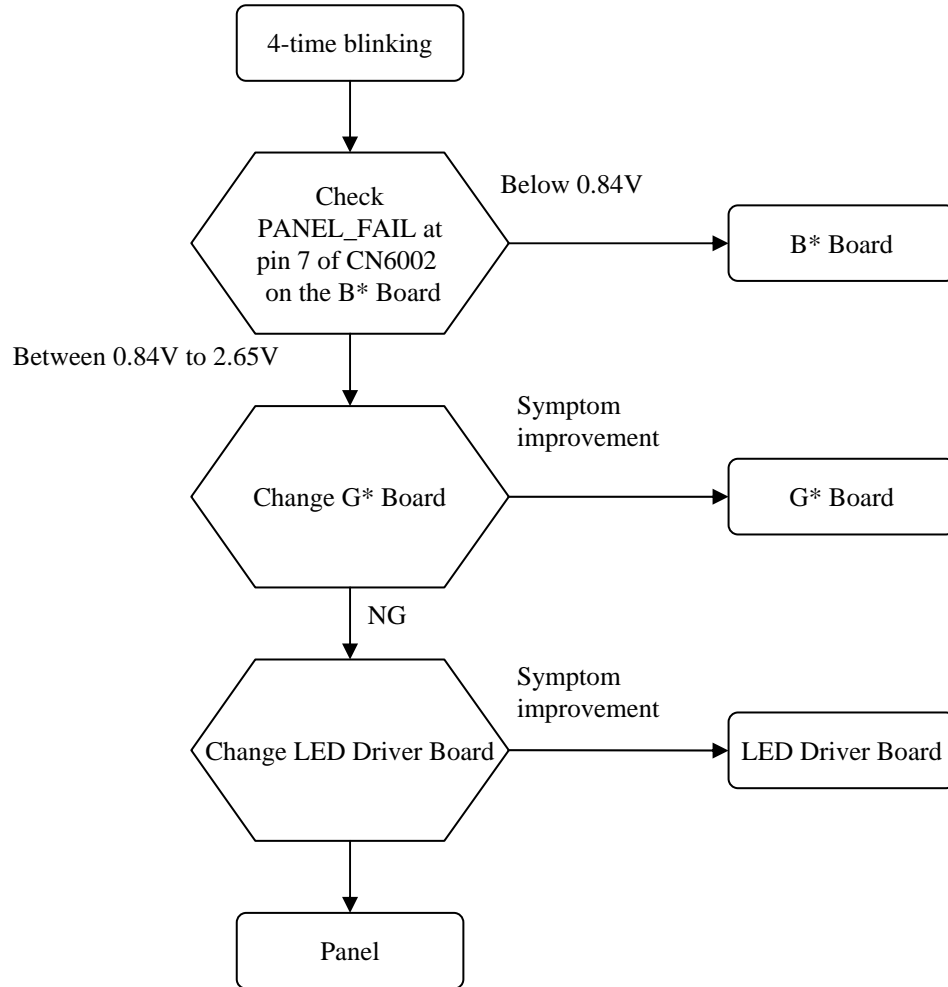
1) 2 times blinking (Main Power Error)



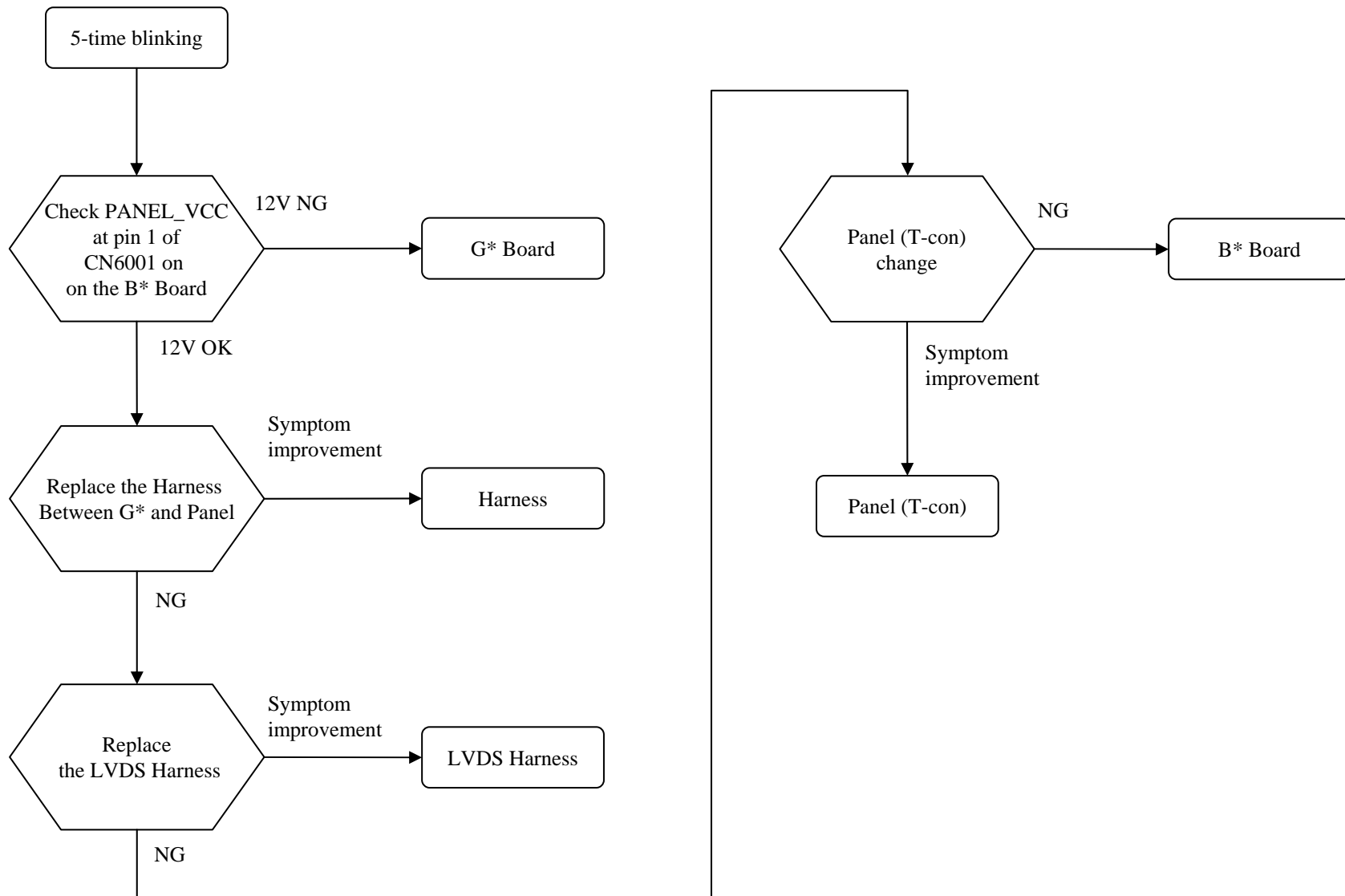
2) 3 times blinking (DC Alert, Audio Error and Communication Error)



## 3) 4 times blinking (Balancer Error)

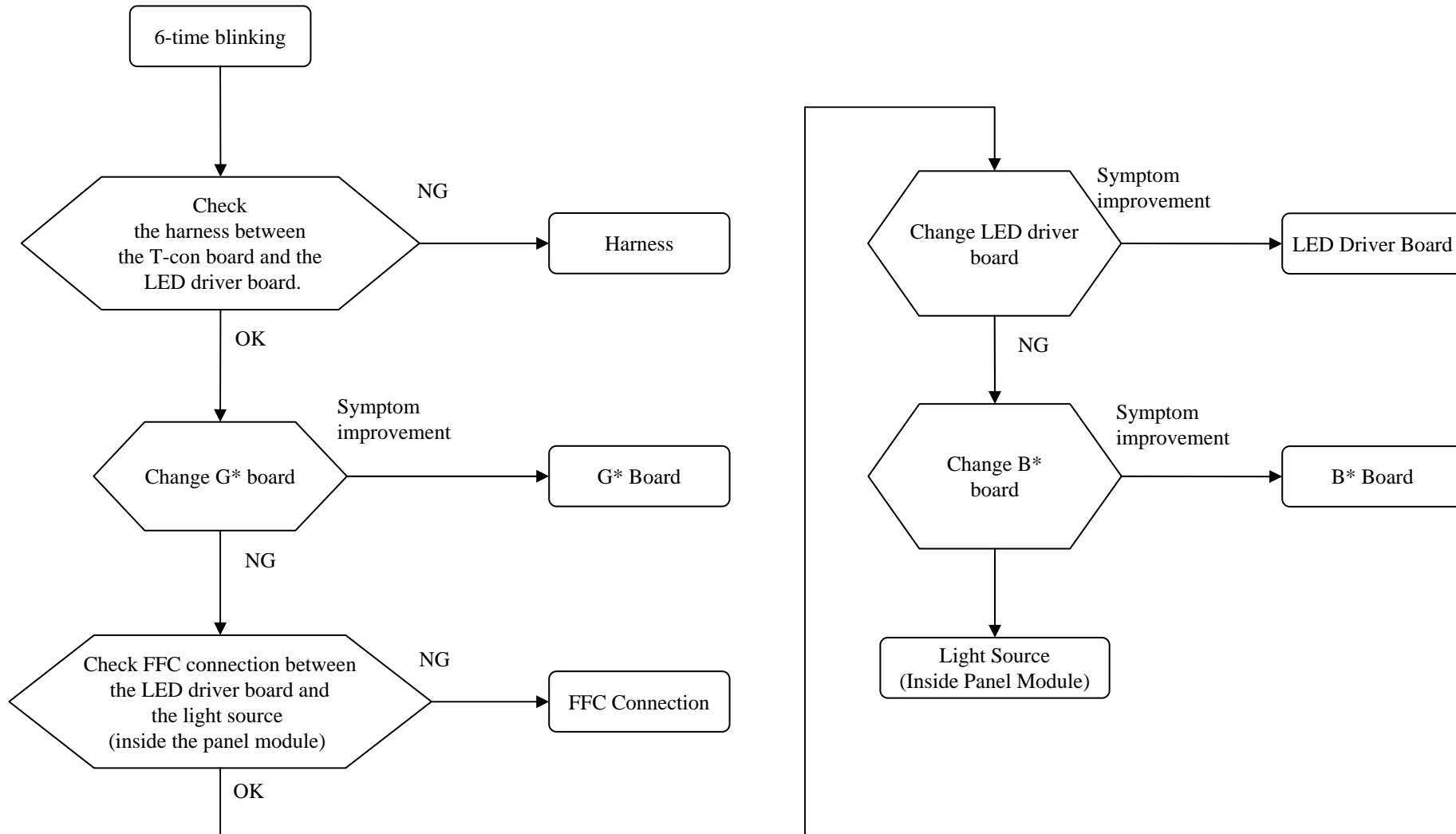


4) 5 times blinking (T-con Error)

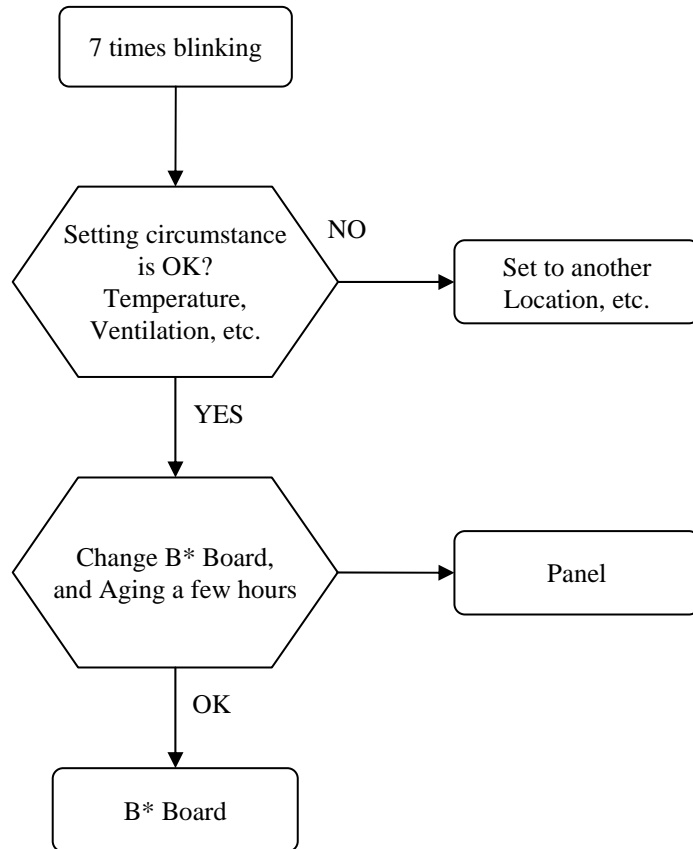




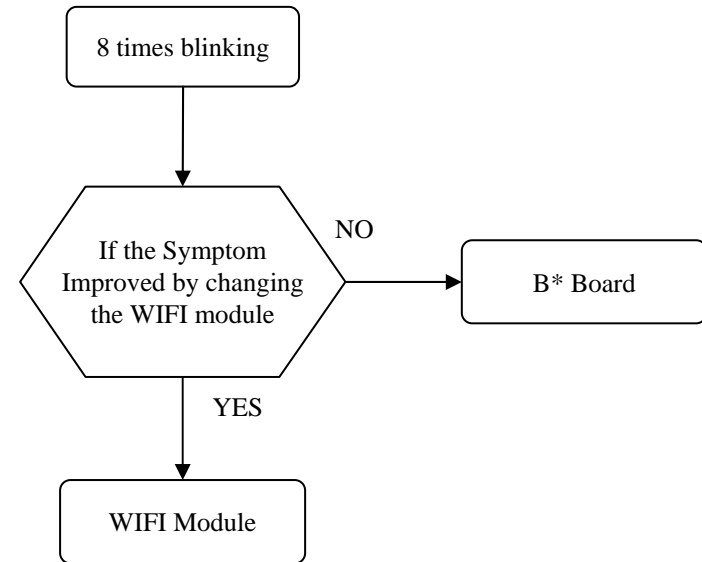
5) 6 times blinking (Backlight Error)



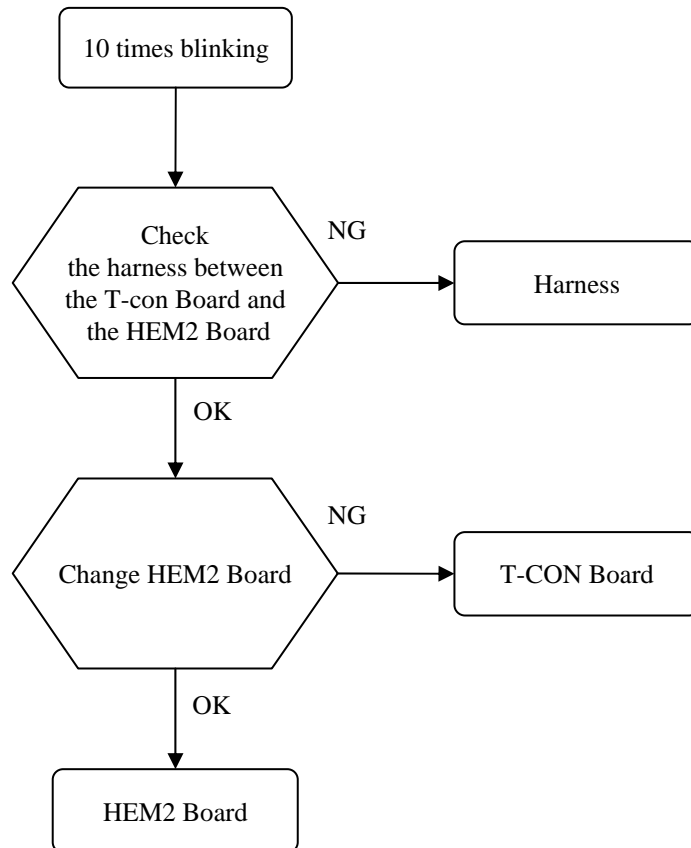
6) 7 times blinking (Temperature Error)



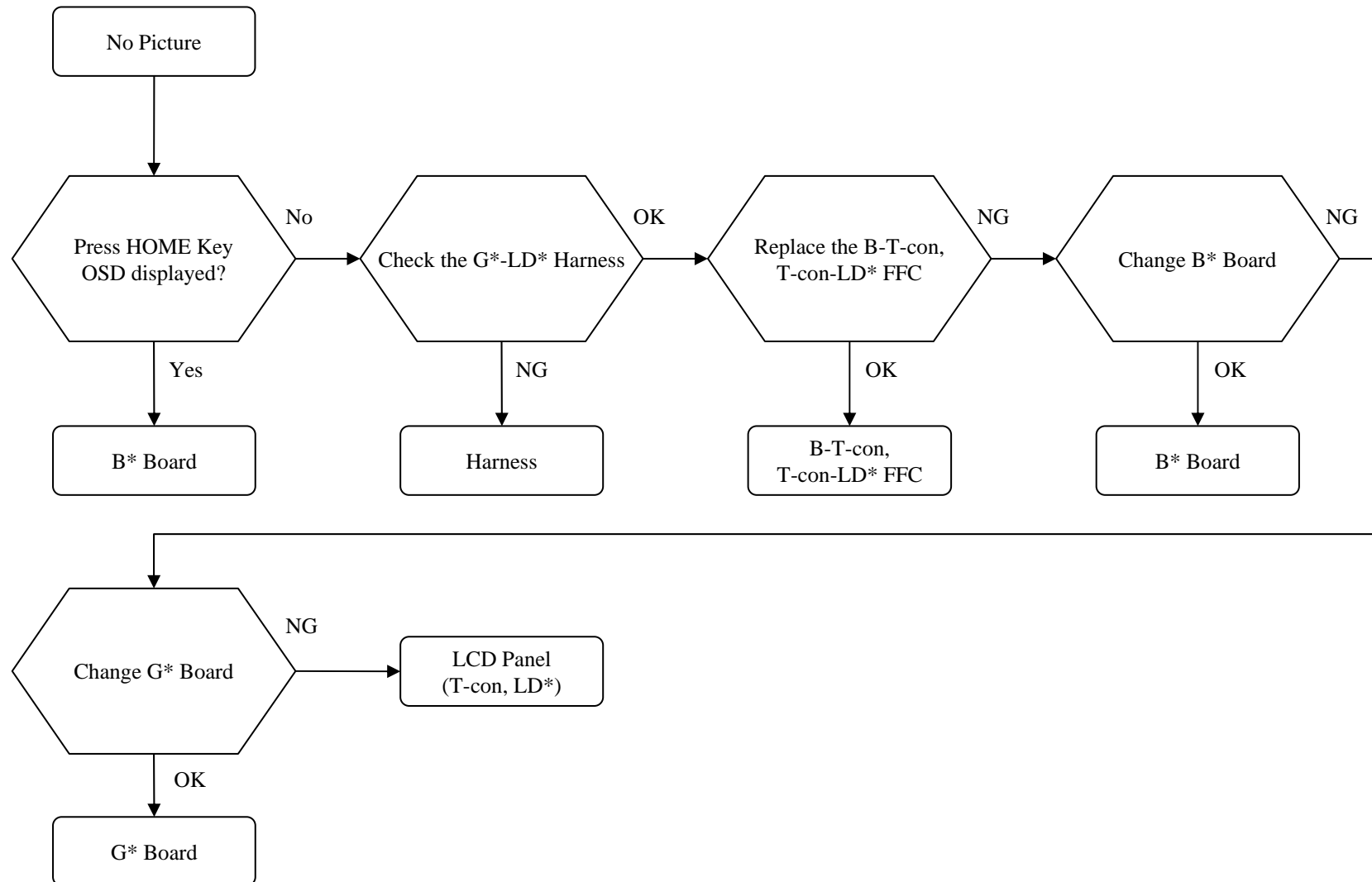
7) 8 times blinking (Software Error)



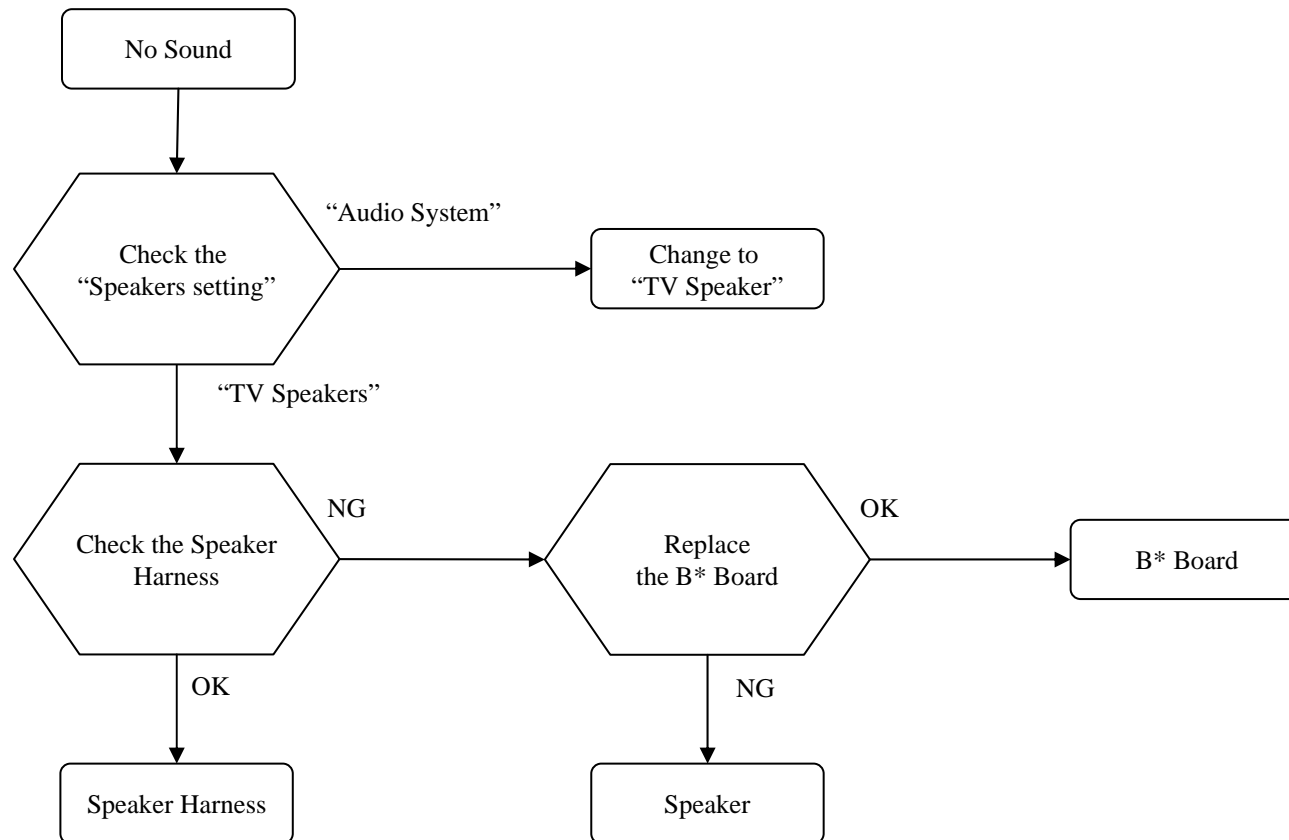
## 8) 10 times blinking (Emitter Error)



## 3-5. NO PICTURE

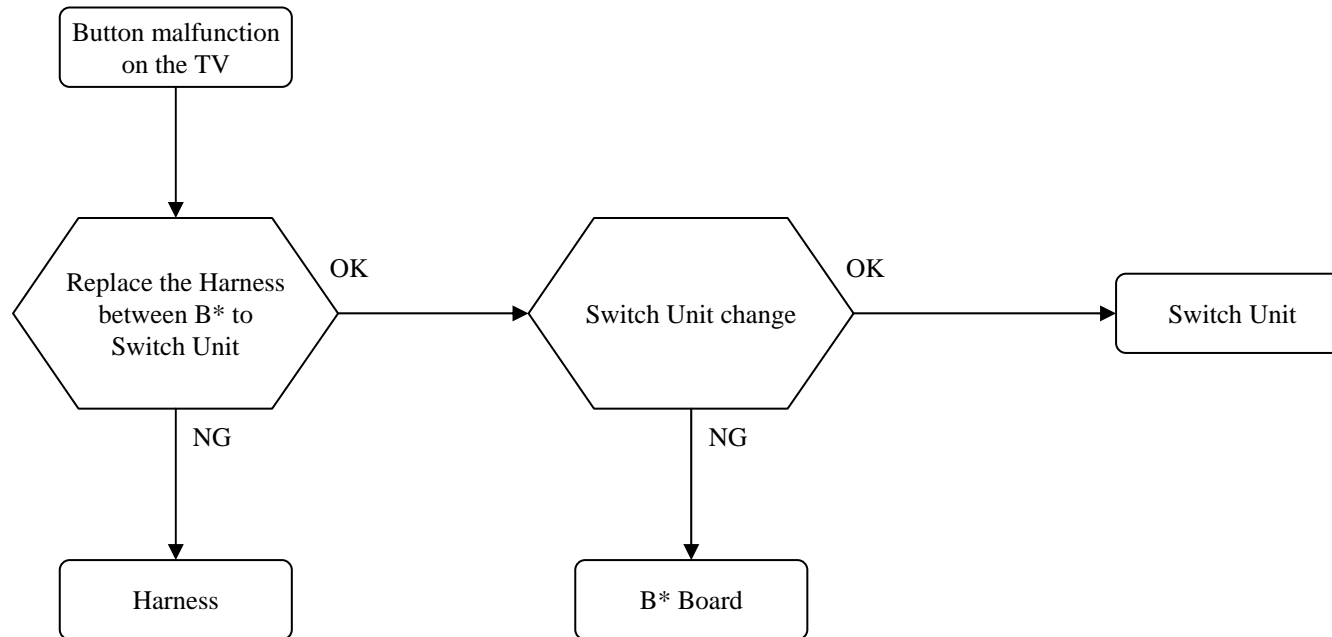


## 3-6. NO SOUND

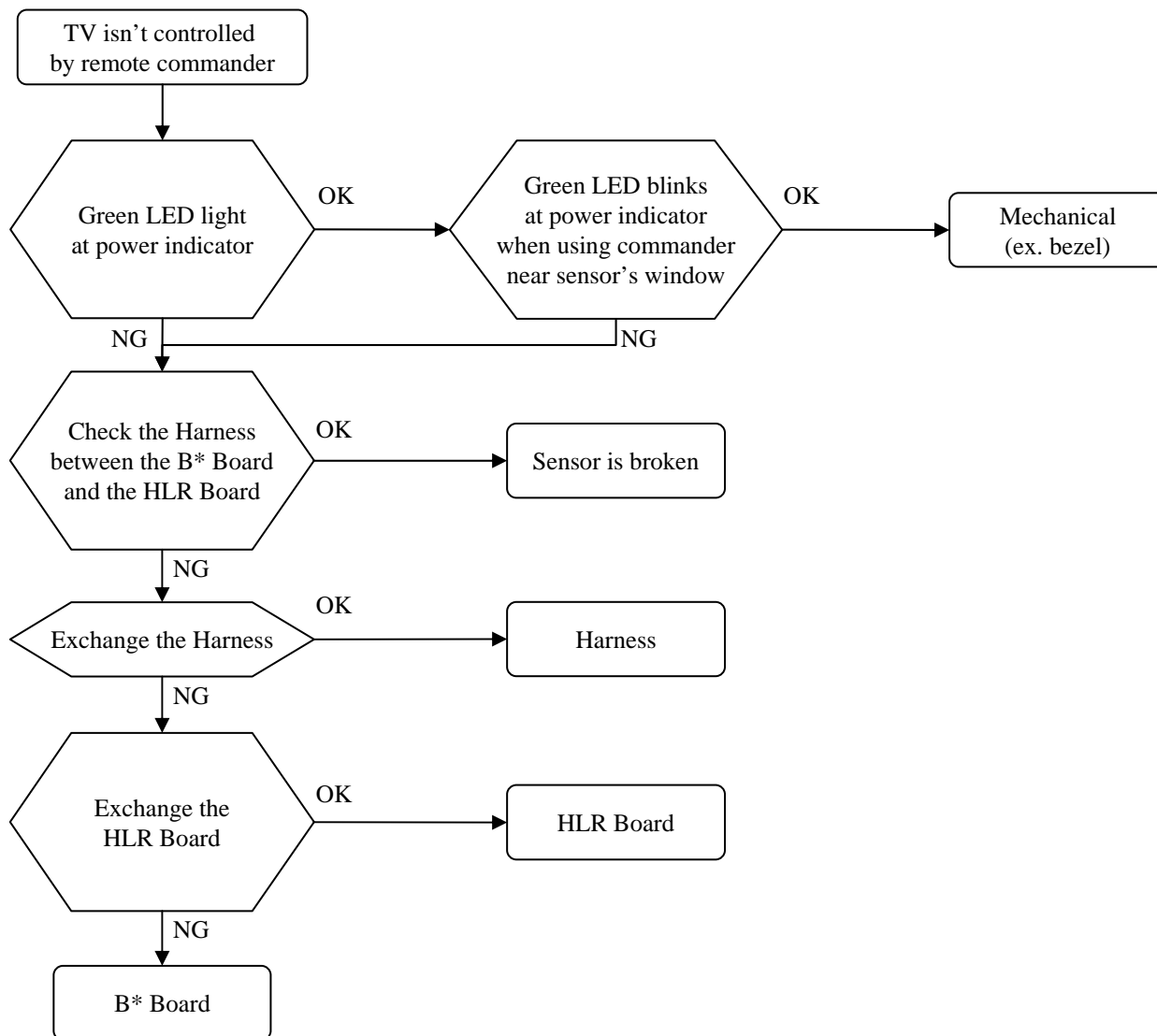


### 3-7. TV COMMANDER BUTTONS MALFUNCTION

#### 1) TV button malfunction

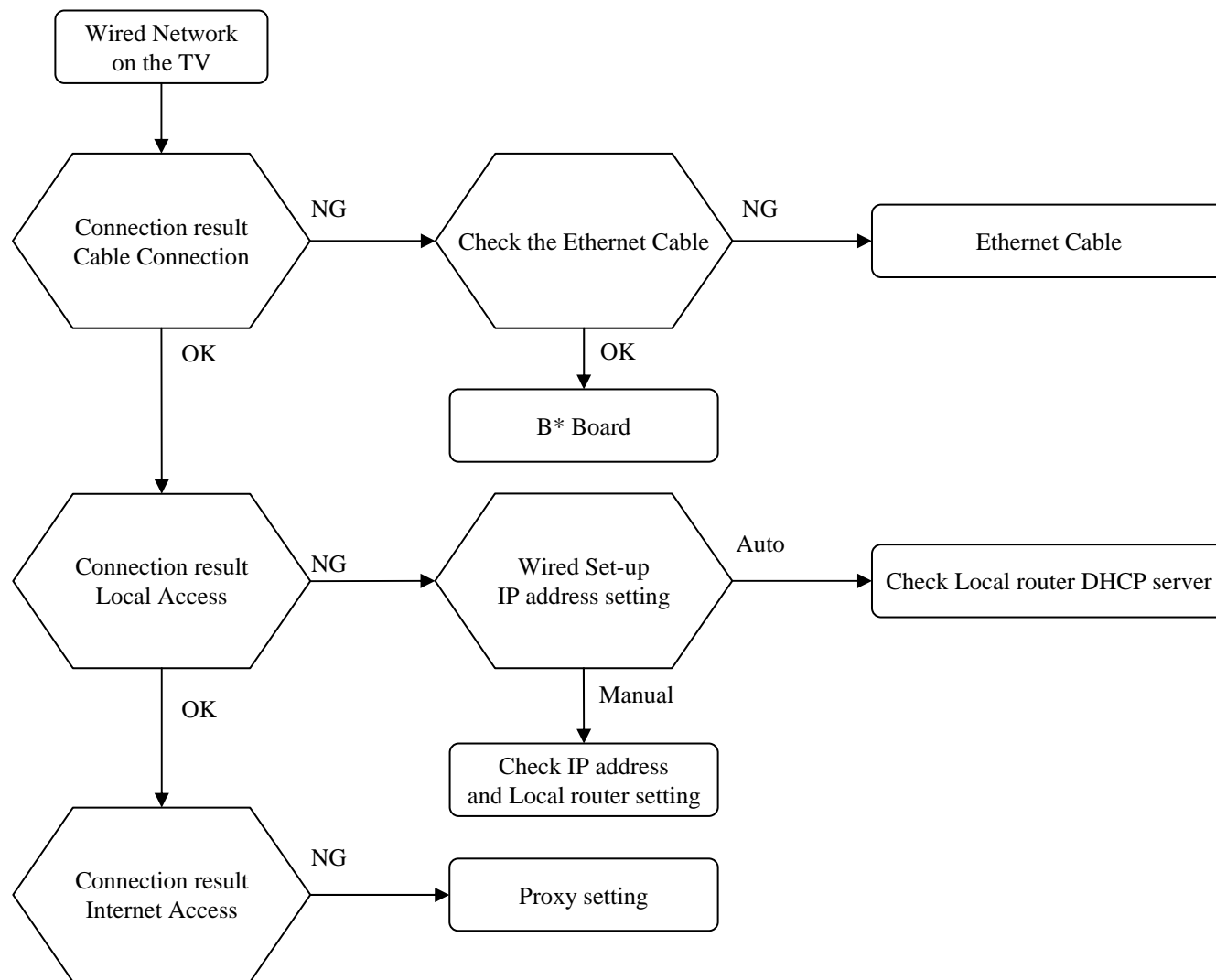


2) IR remote commander malfunction



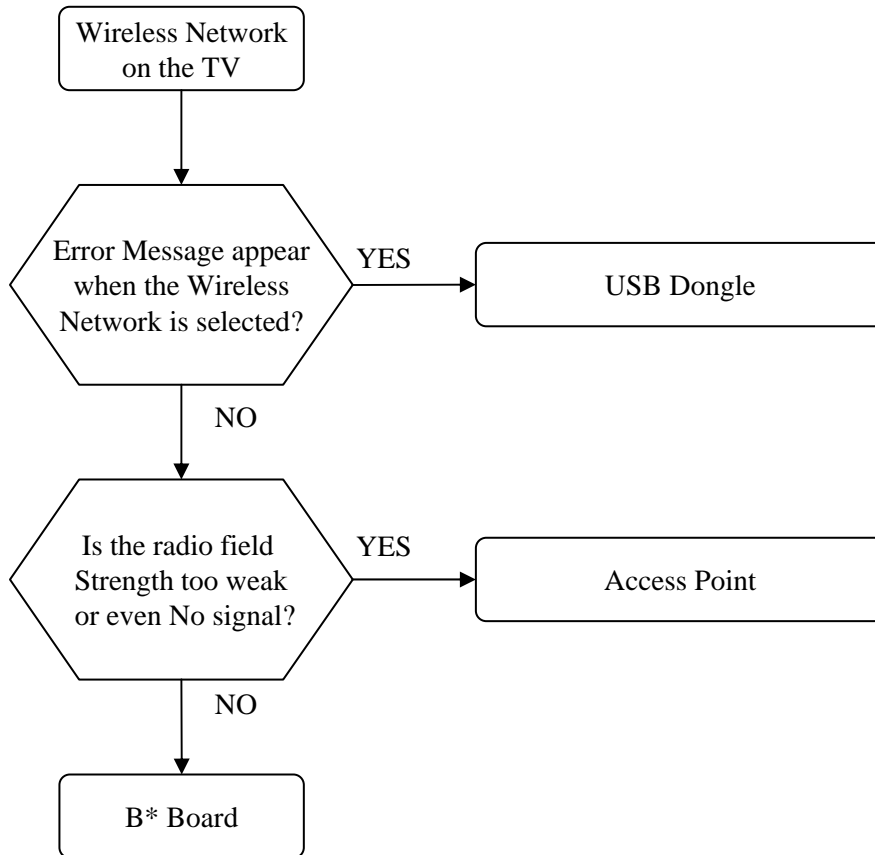
### 3-8. NETWORK MALFUNCTION

1) Wired Network malfunction

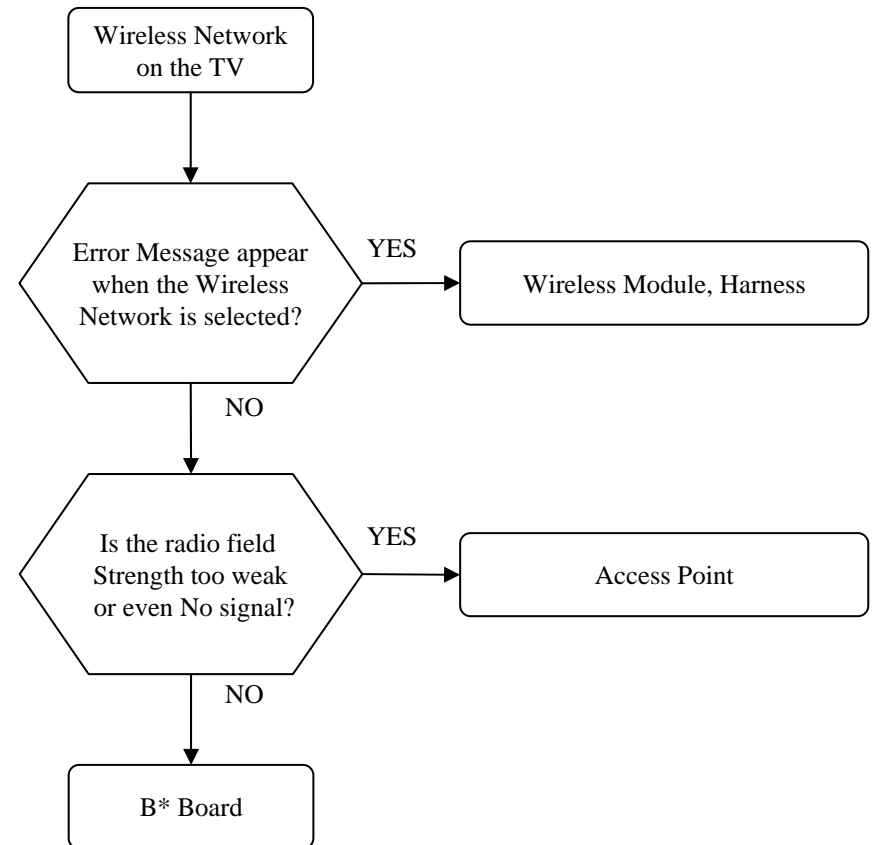




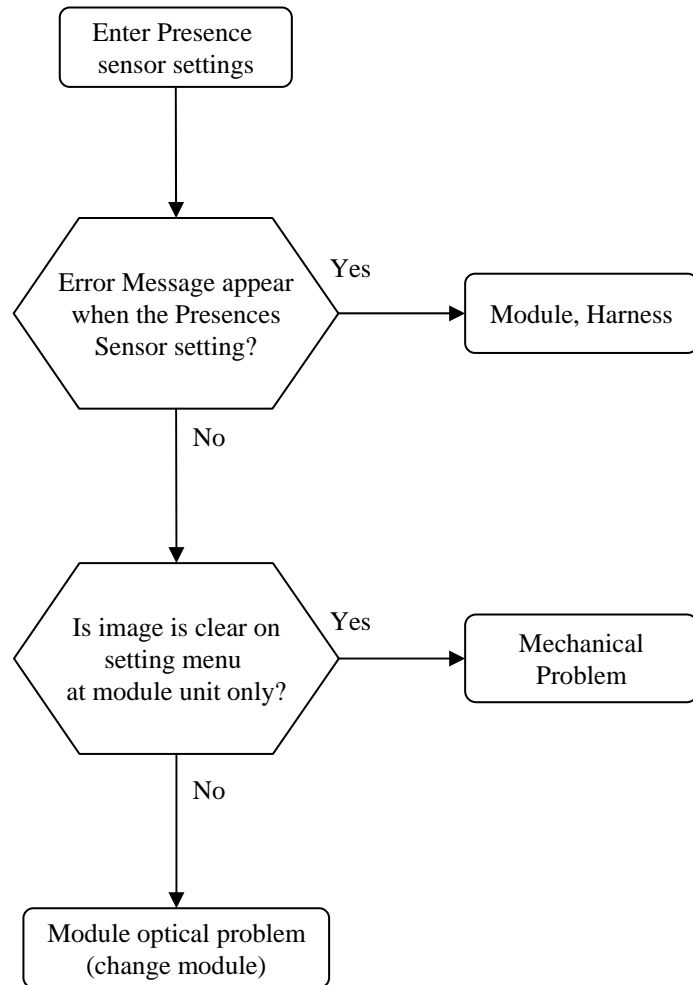
2) USB Wireless Network malfunction



3) Internal Wireless Network malfunction



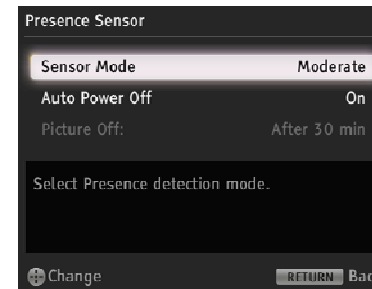
### 3-9. CAMERA MALFUNCTION



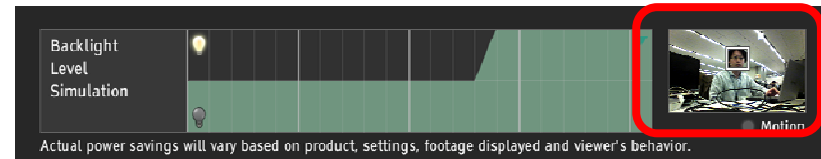
#### Error message



#### Setting Menu

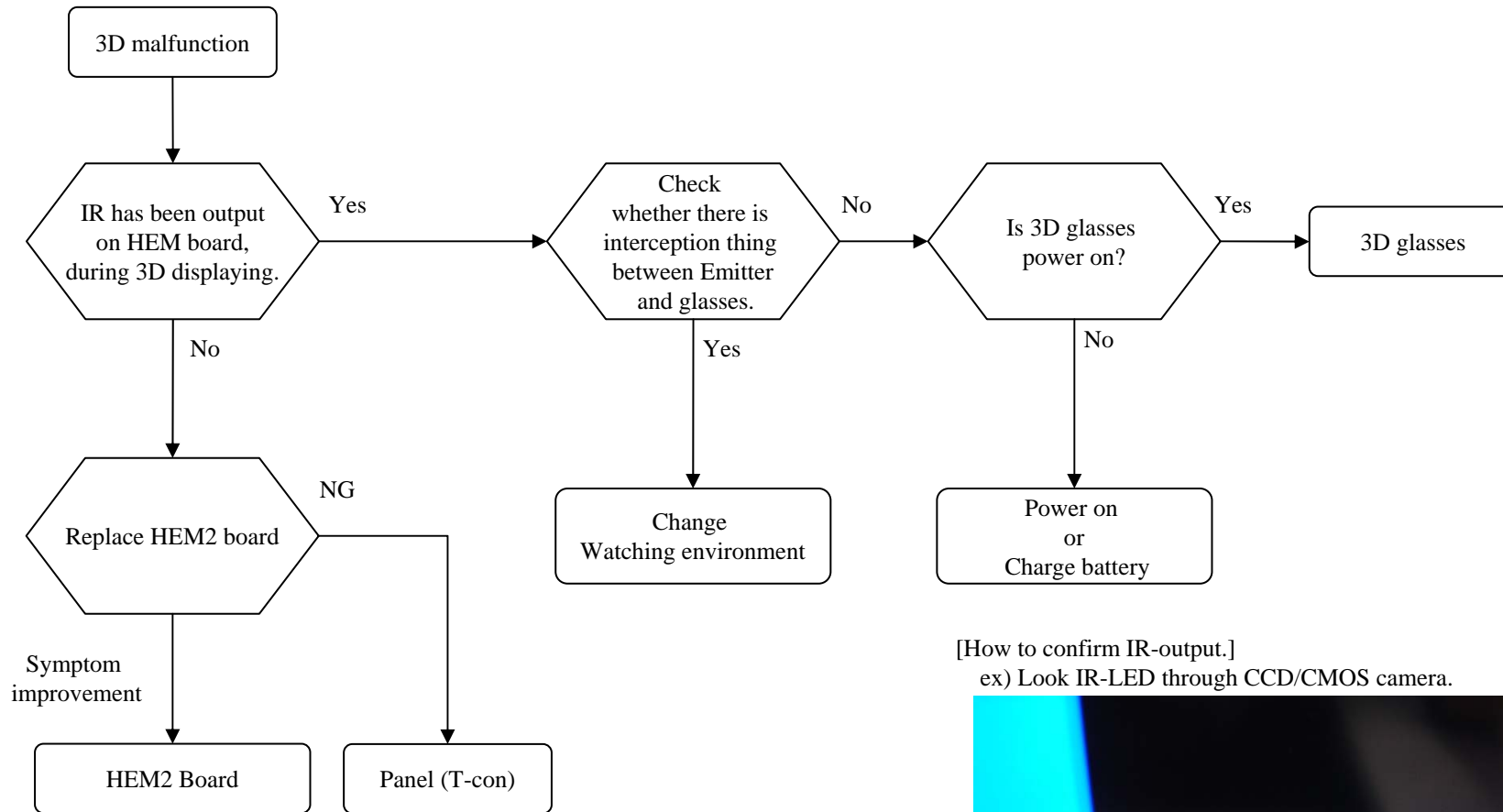


#### image



Presence Sensor Setting:  
 Press HOME, then select > System Settings > Eco > Presence Sensor

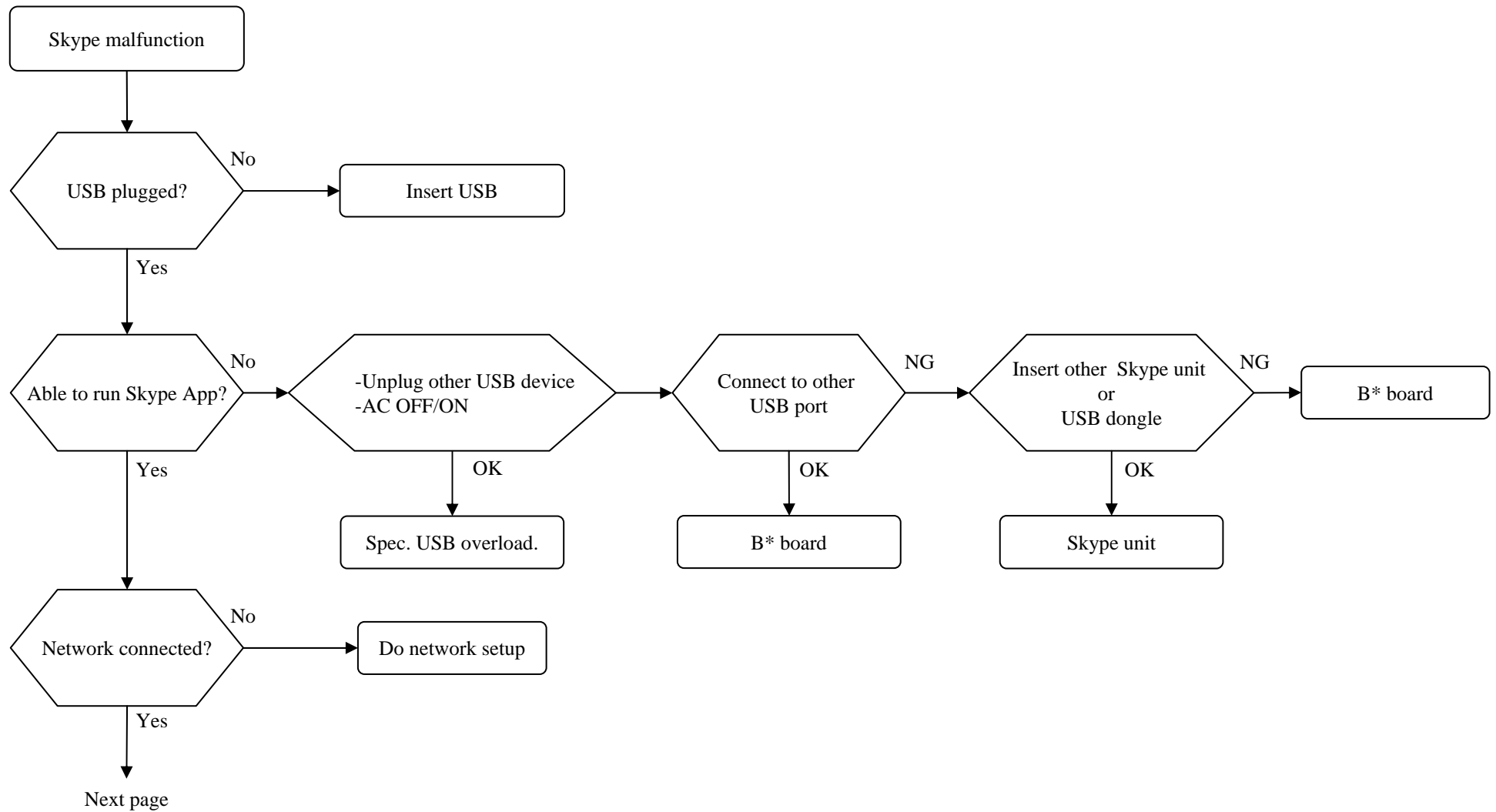
3-10. 3D MALFUNCTION



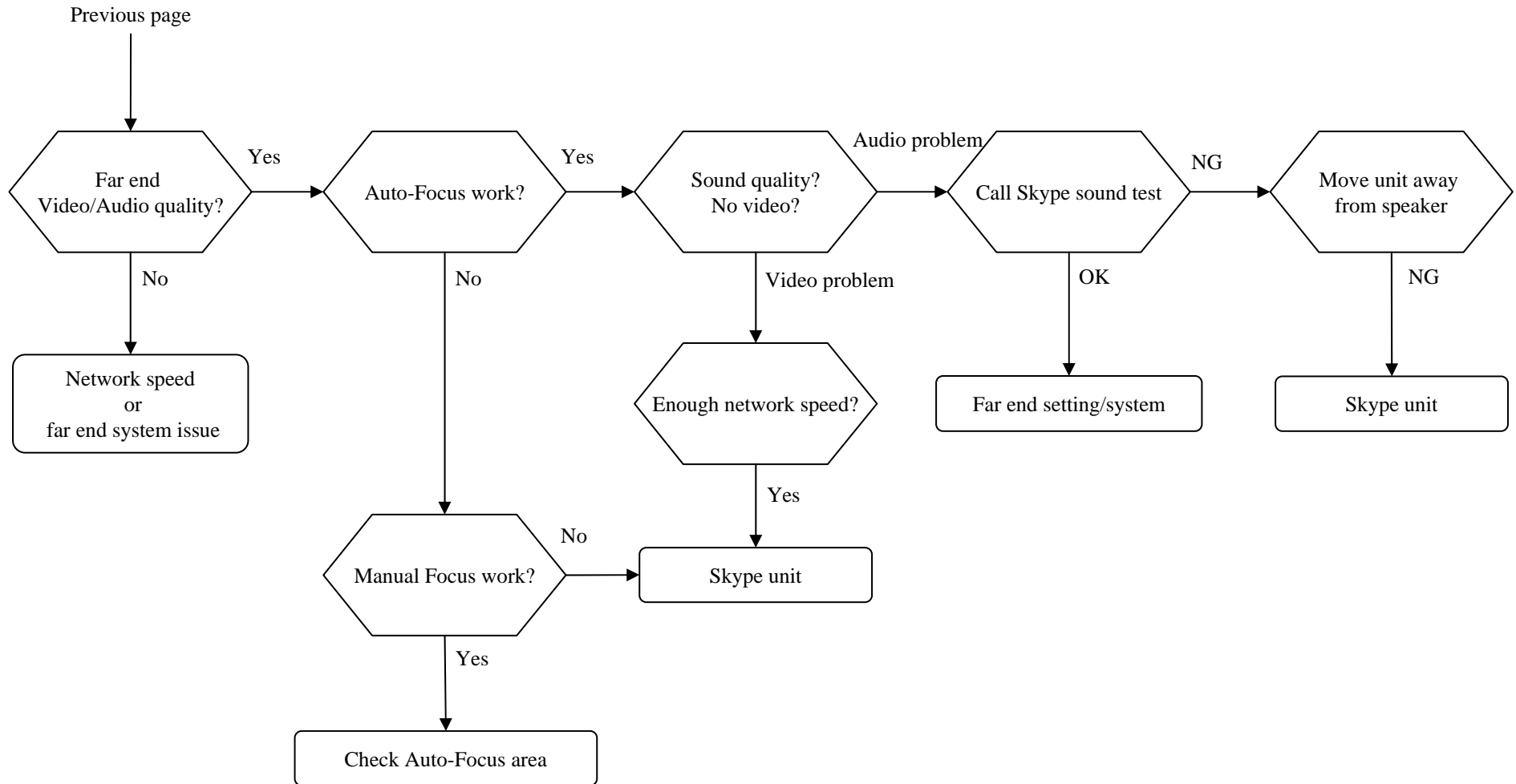
[How to confirm IR-output.]  
ex) Look IR-LED through CCD/CMOS camera.



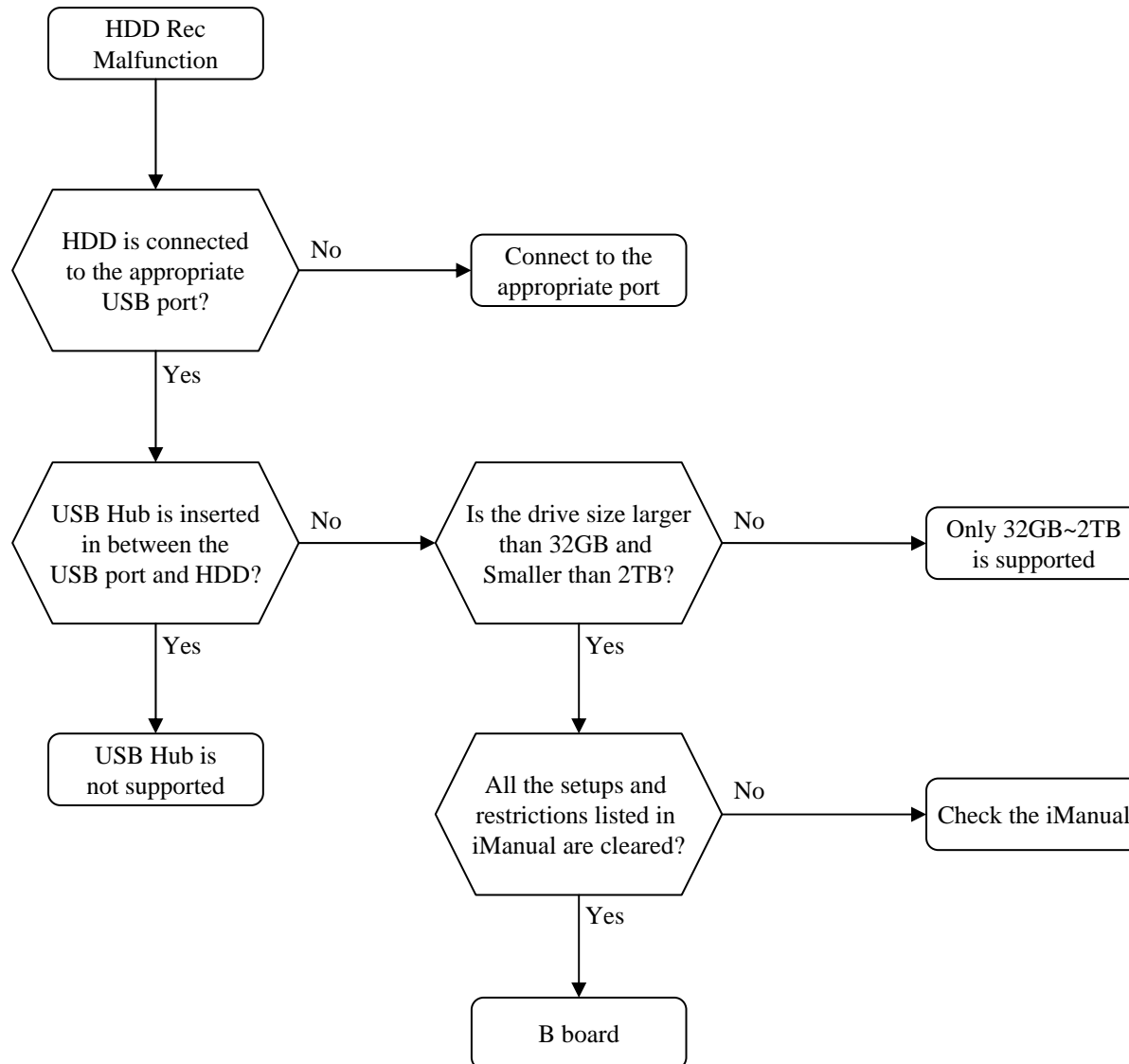
## 3-11. Skype MALFUNCTION 1/2



3-11. Skype MALFUNCTION 2/2

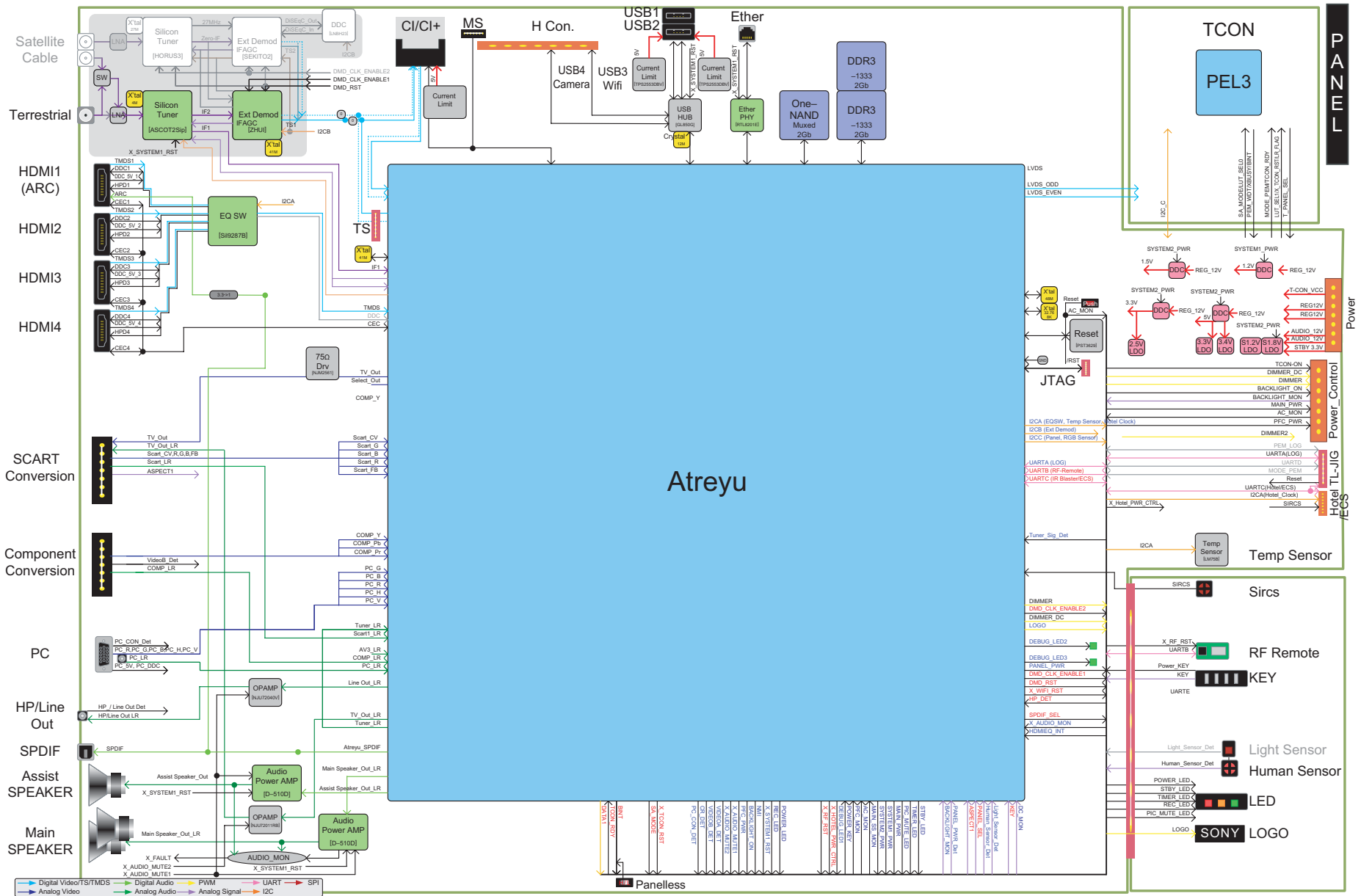


## 3-12. HDD-Rec MALFUNCTION



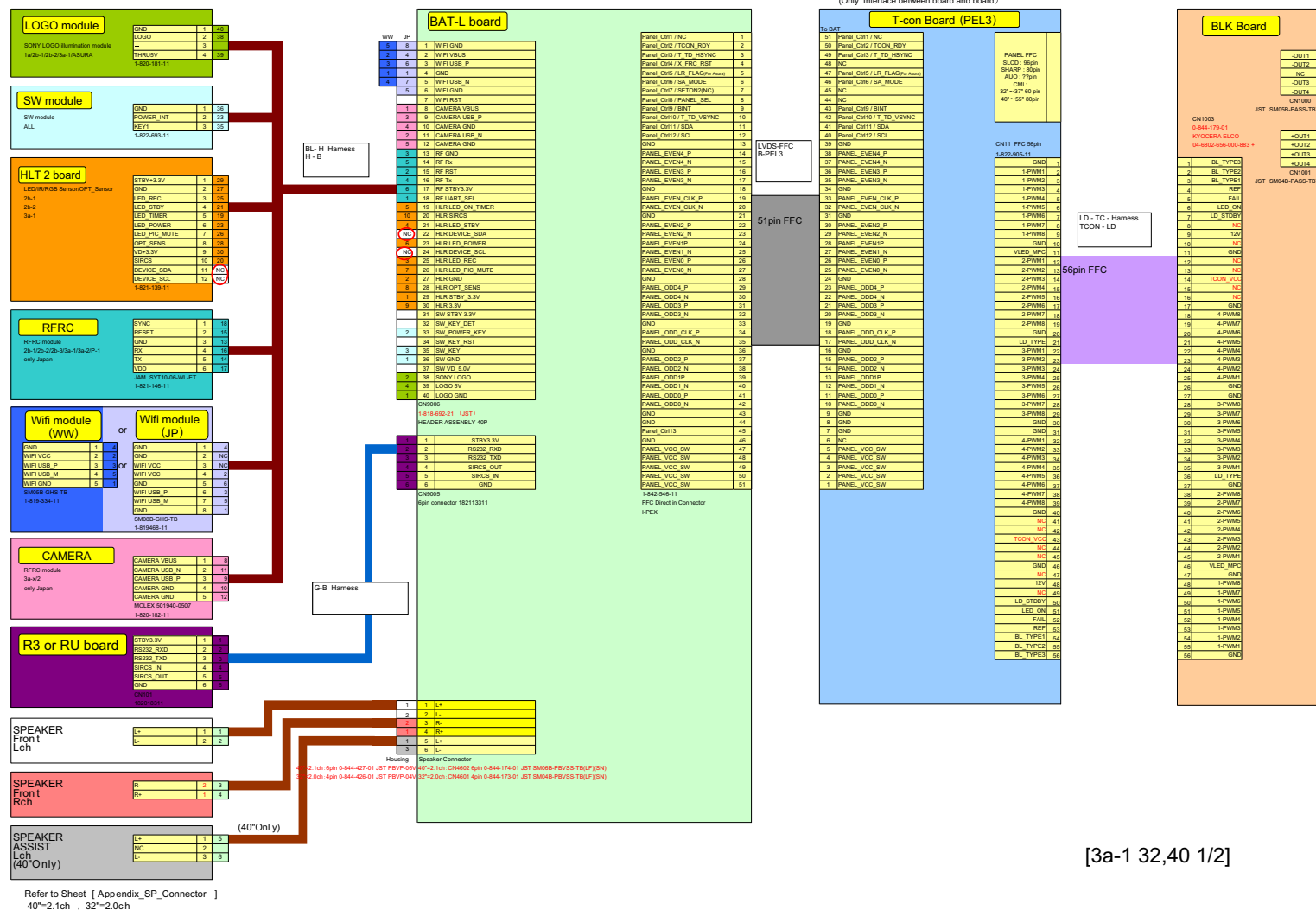
# SEC 4. DIAGRAMS

## 4-1. BLOCK DIAGRAM



## 4-2. CONNECTOR DIAGRAM

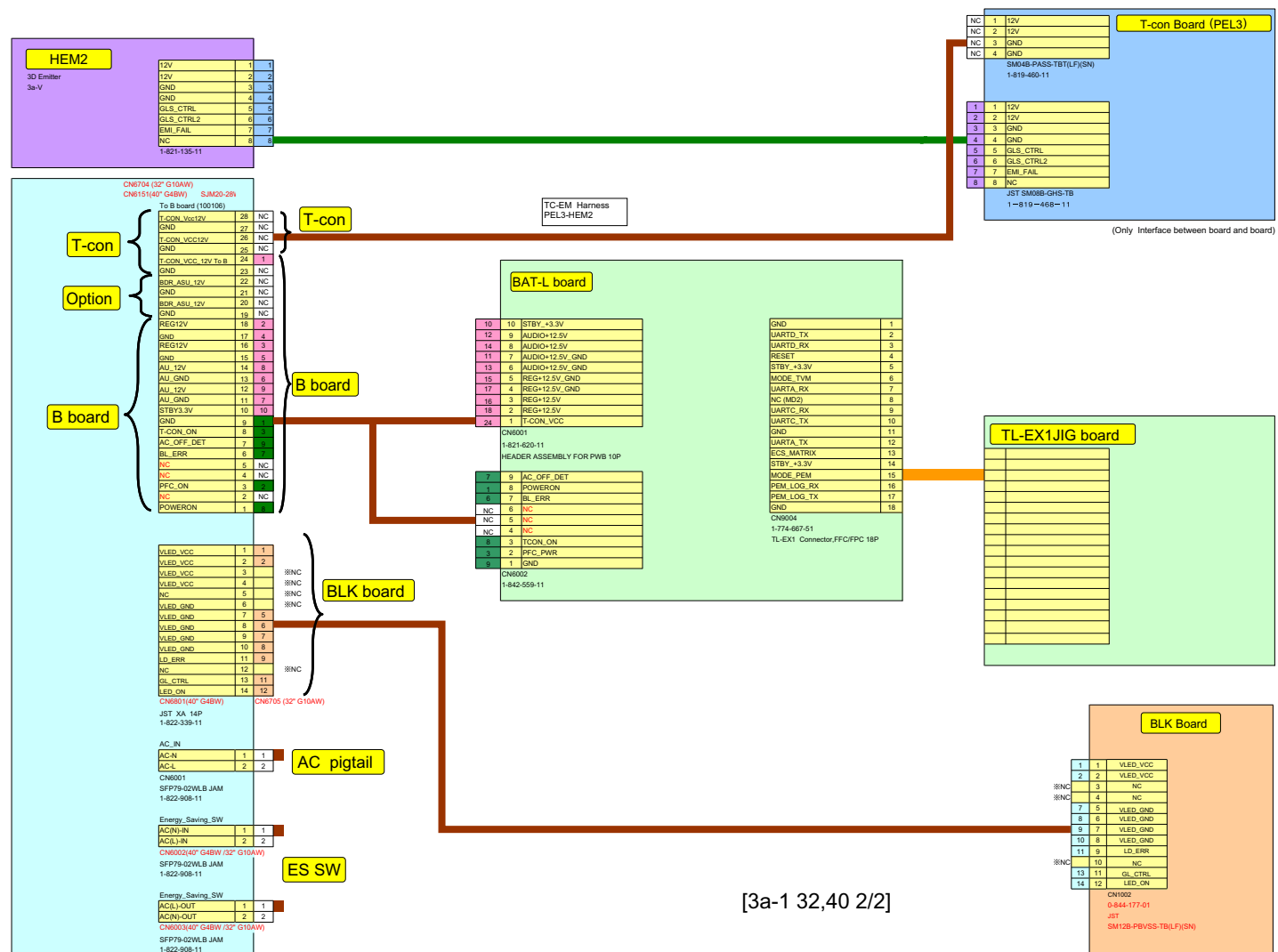
### 4-2-1. KDL-40NX720/723/725 (1/2)



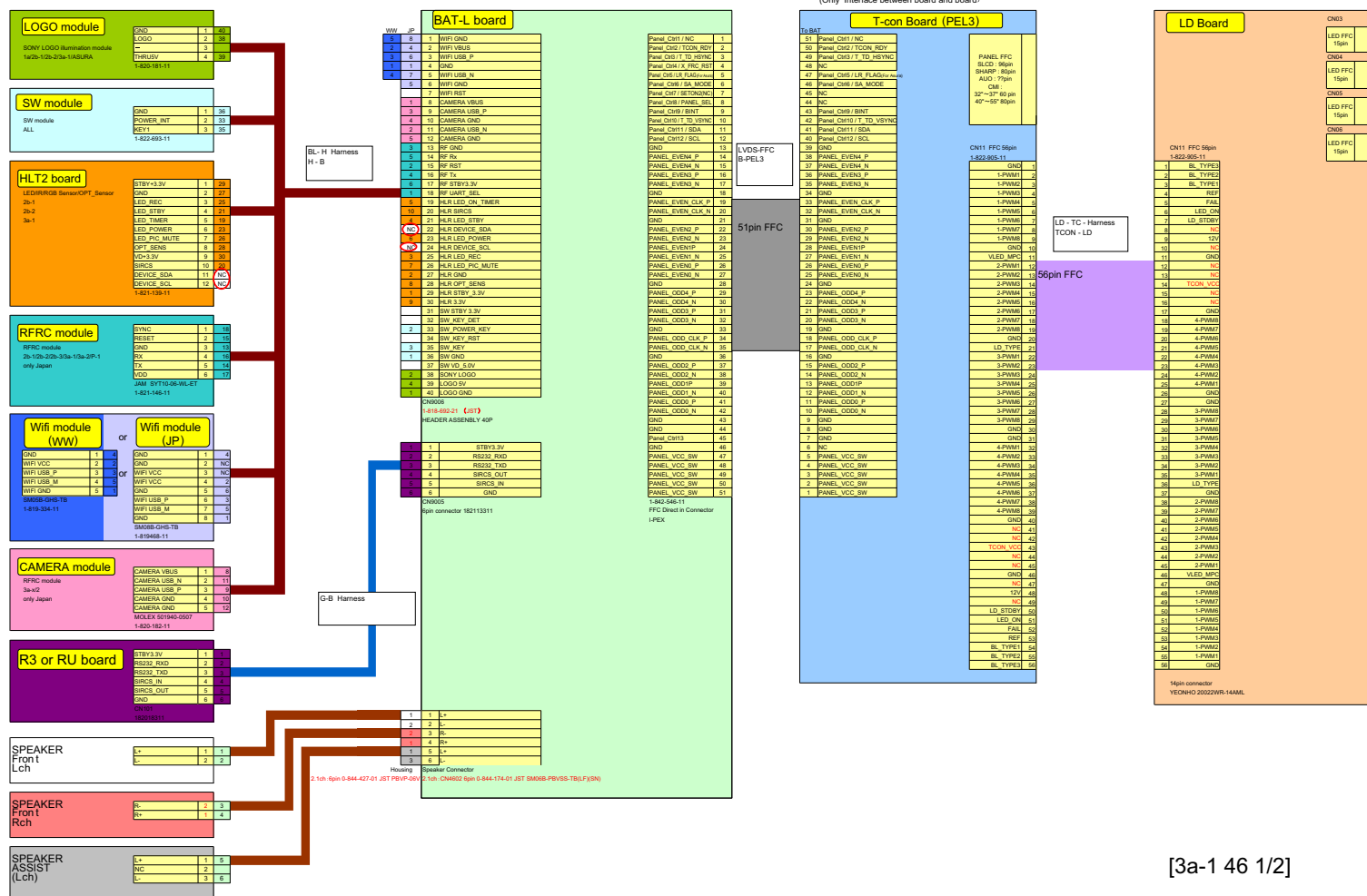
[3a-1 32,40 1/2]



4-2-1. KDL-40NX720/723/725 (2/2)

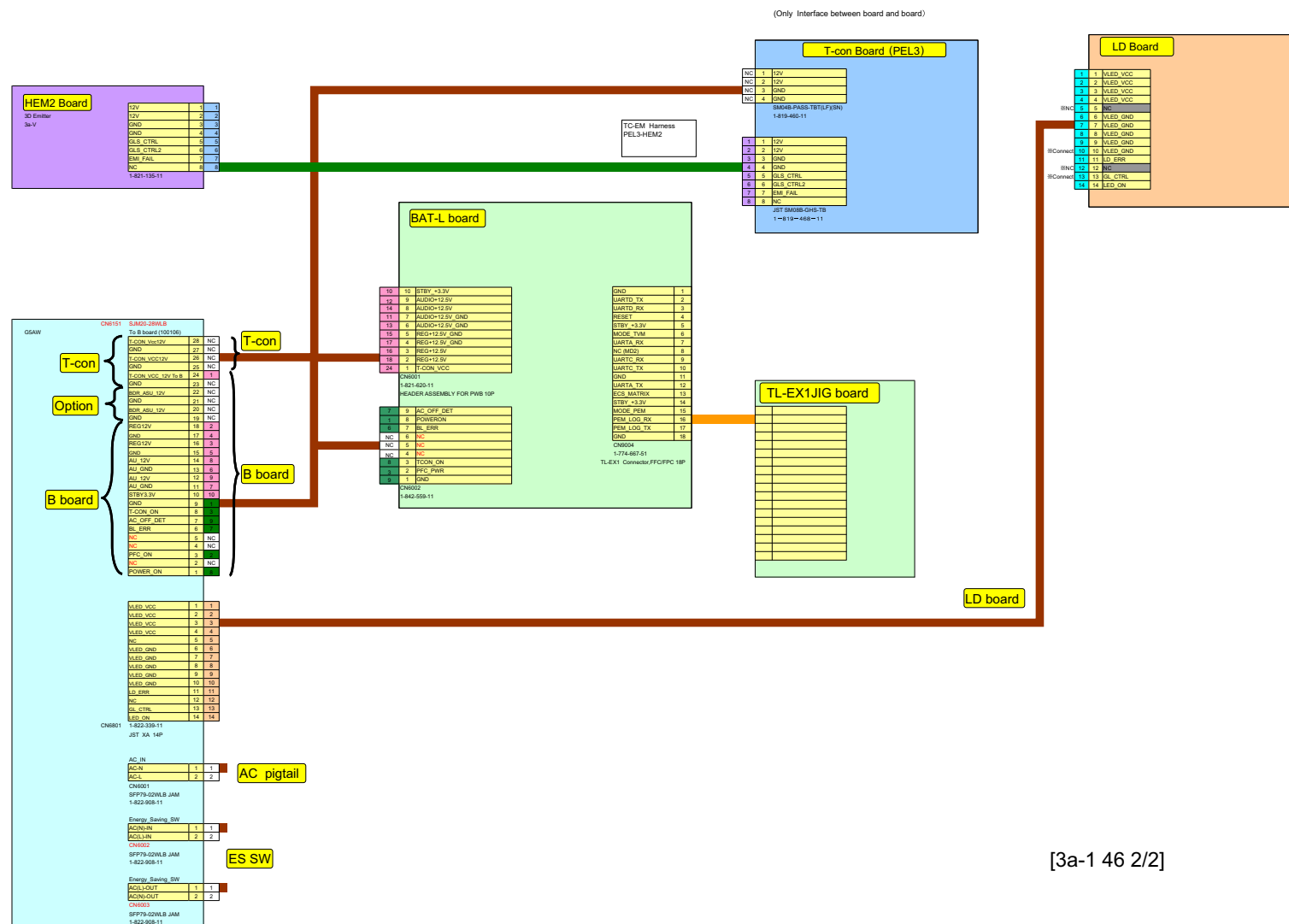


4-2-2. KDL-46NX720/723/725 (1/2)



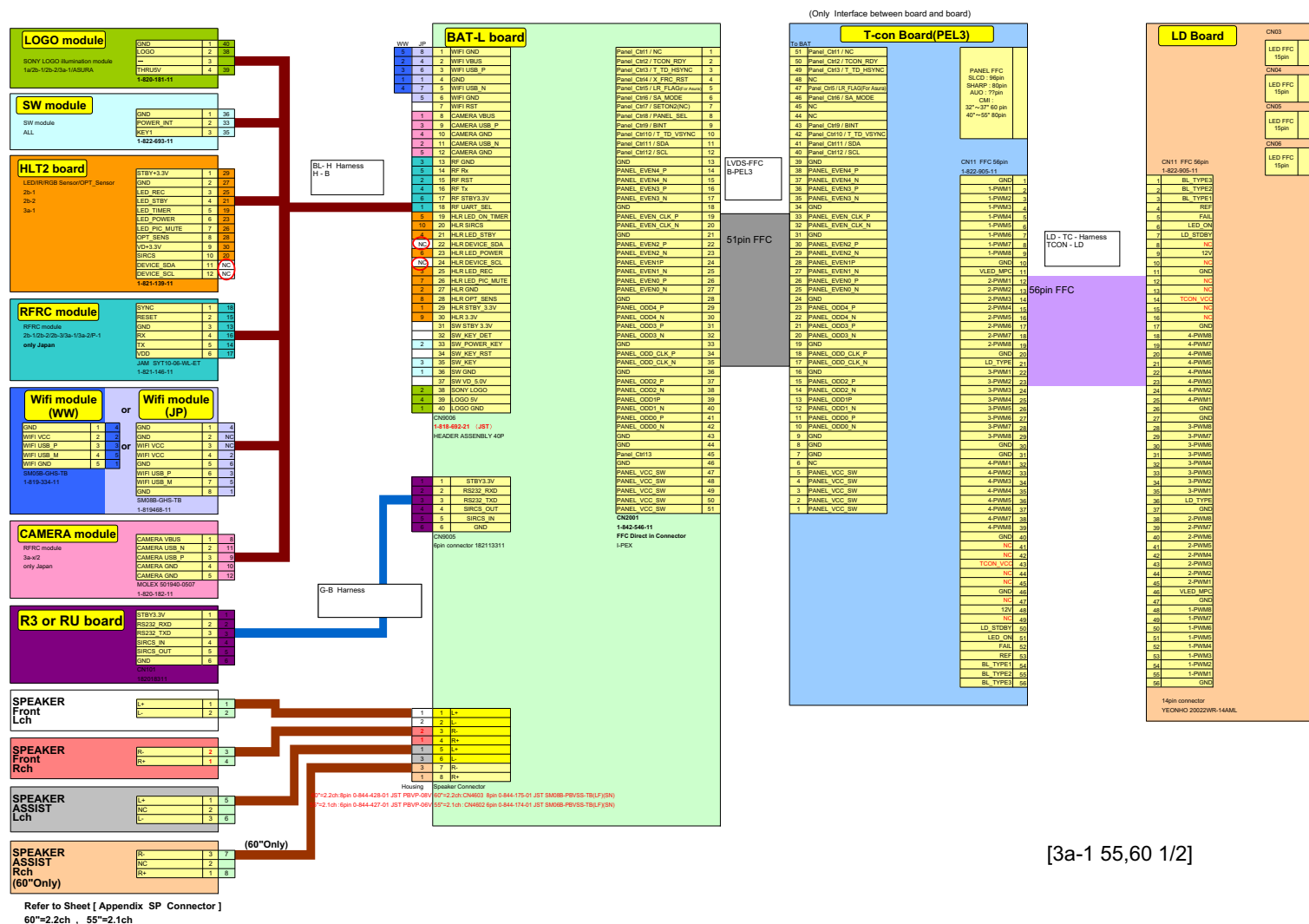
[3a-1 46 1/2]

4-2-2. KDL-46NX720/723/725 (2/2)

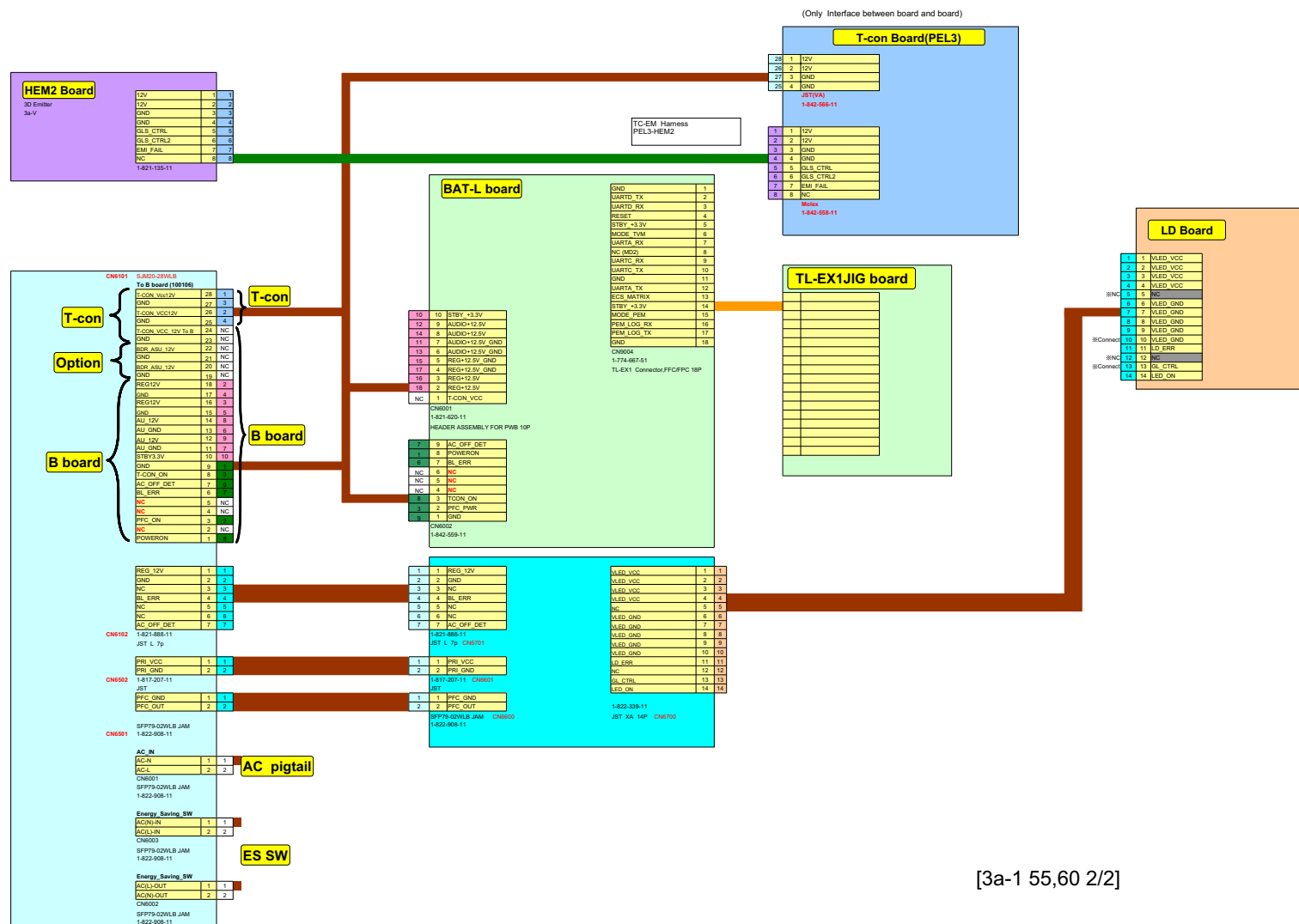


[3a-1 46 2/2]

4-2-3. KDL-55/60NX720/723/725 (1/2)



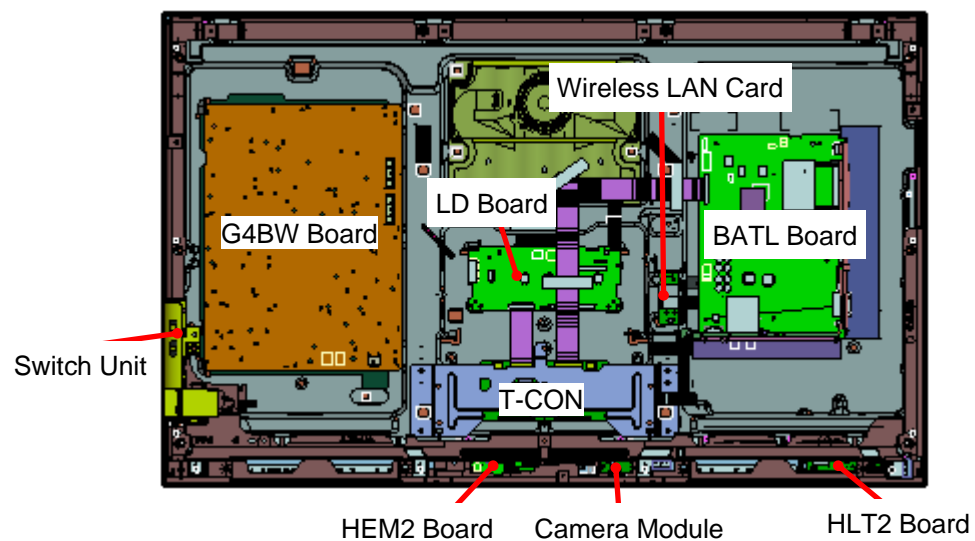
4-2-3. KDL-55/60NX720/723/725 (2/2)



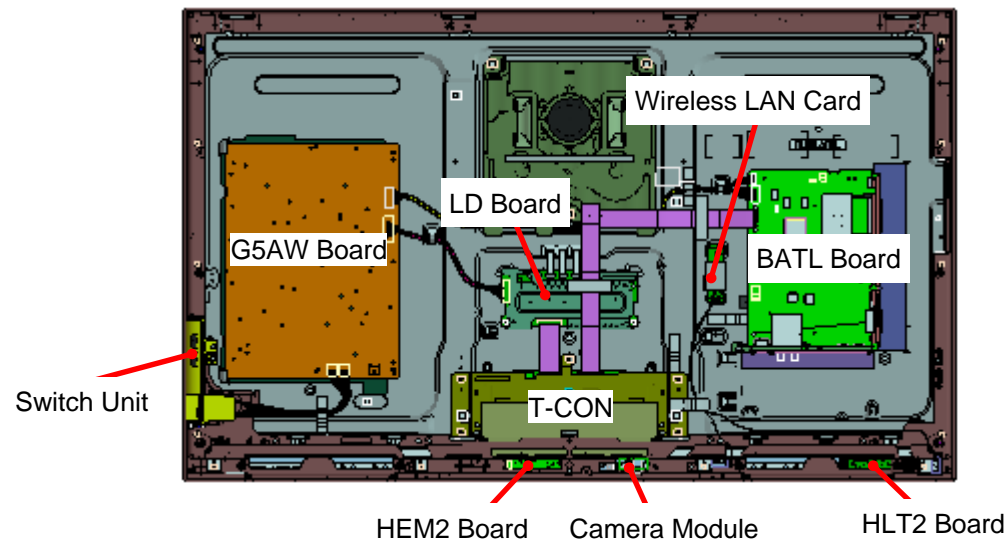
[3a-1 55,60 2/2]

### 4-3. CIRCUIT BOARDS LOCATION

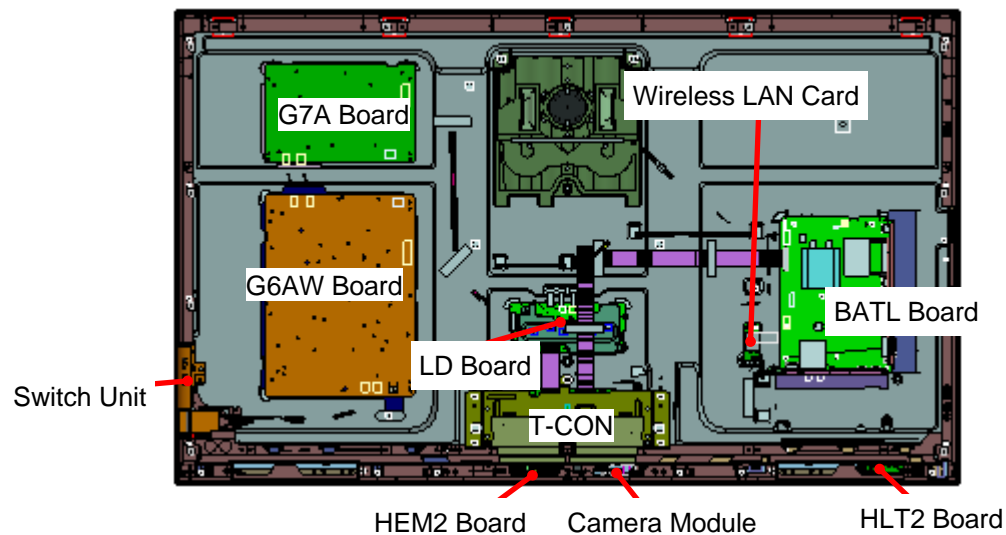
KDL-40NX720/723/725



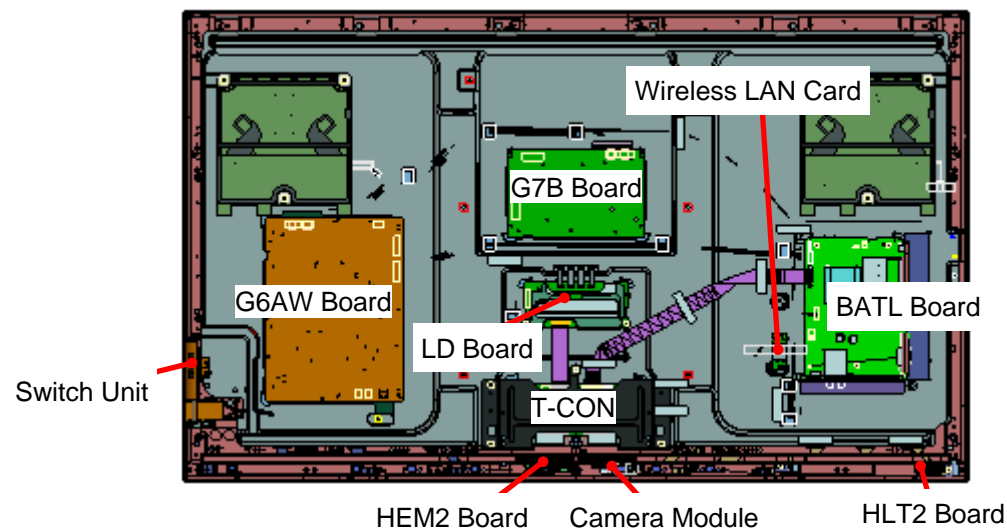
KDL-46NX720/723/725



KDL-55NX720/723/725



KDL-60NX720/723/725



# 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

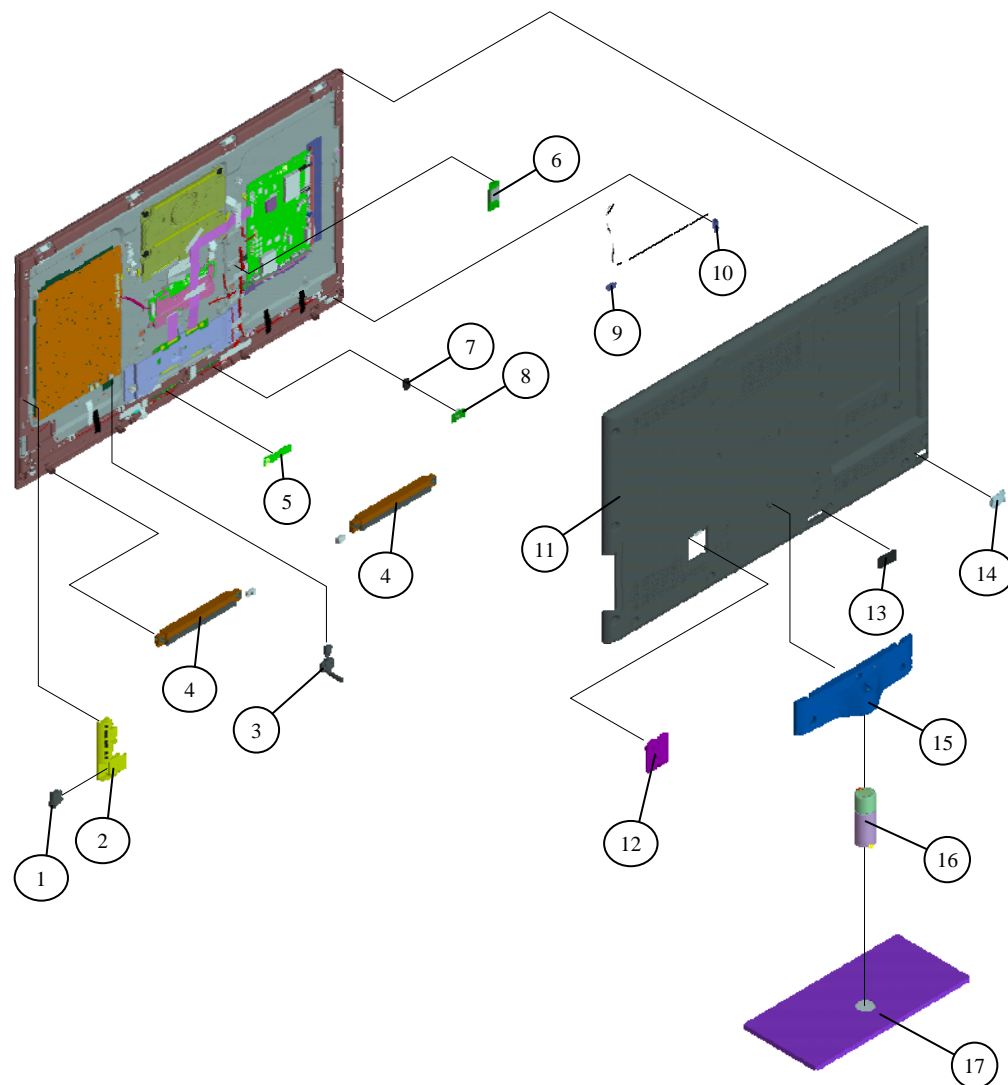
The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

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

**IMPORTANT: When replacing LCD Panel or Circuit Boards ensure that all Radiation Sheets and Insulation Sheets are in their correct positions in the TV set.**

## 5-1. KDL-40NX720/723/725

## 5-1-1. CHASSIS-1

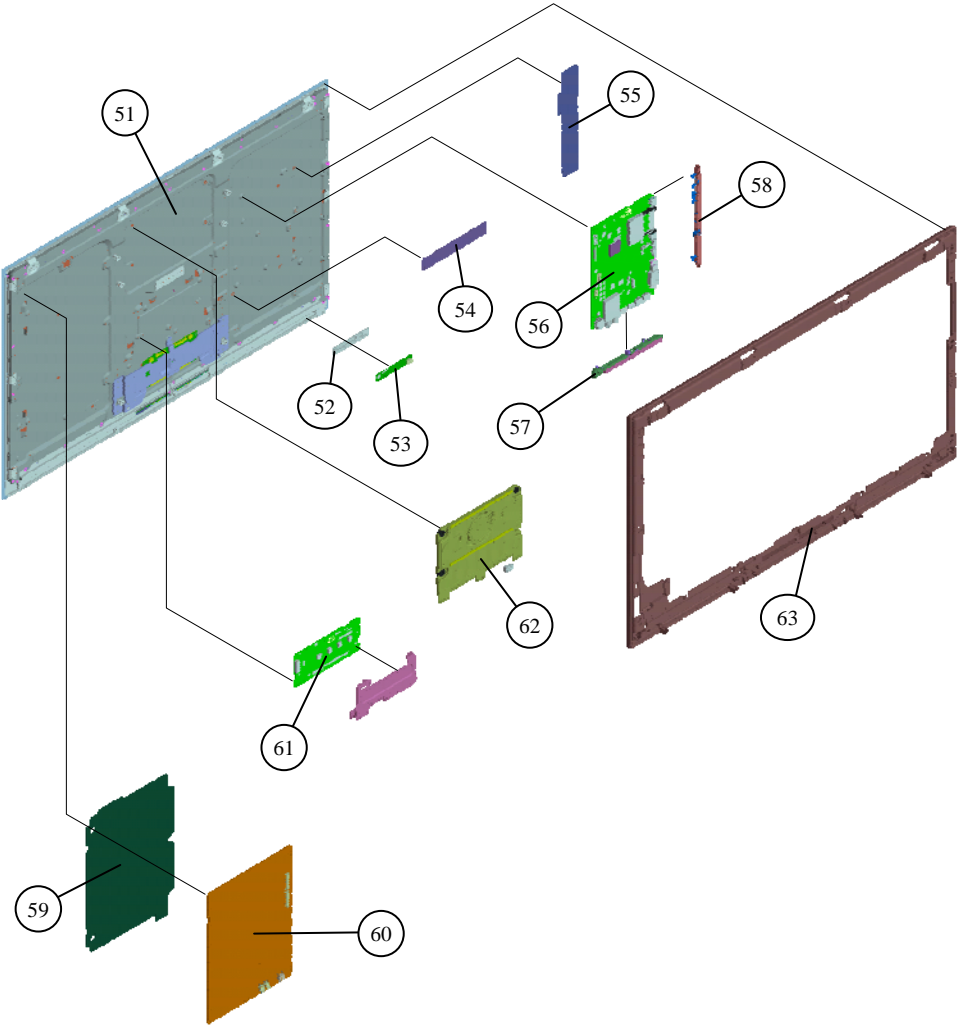


REF. No.	PART No.	DESCRIPTION	REMARK
1	△ FX0019811	POWER SWITCH	
2	△ FX0019621	SWITCH UNIT	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	NX723(UK)
4	FX0020311	SPEAKER BOX ASSY (2X9CM)	
5	FX0093501	HEM2 MOUNT	
6	FX0012011	WIRELESS LAN CARD	
	FX0023711	WIRELESS LAN CARD	NX720(RU)
7	FX0020701	CAP, SEALING (CAMERA)	
8	FX0019511	CAMERA MODULE	
9	FX0012211	ANTENNA	
10	FX0019711	ANTENNA	
11	FX0021201	REAR COVER (40 EL) A	
12	△ FX0002711	COVER, AC(M)	
13	FX0018001	SHEET, ANT(C EL)	
14	FX0020901	COVER, ANT(L EL)	
15	FX0007801	STAND HEAD (ML9)	
16	FX0015911	NECK (ML9)	
17	FX0013411	STAND, BASE A(ML1)	



5-1. KDL-40NX720/723/725

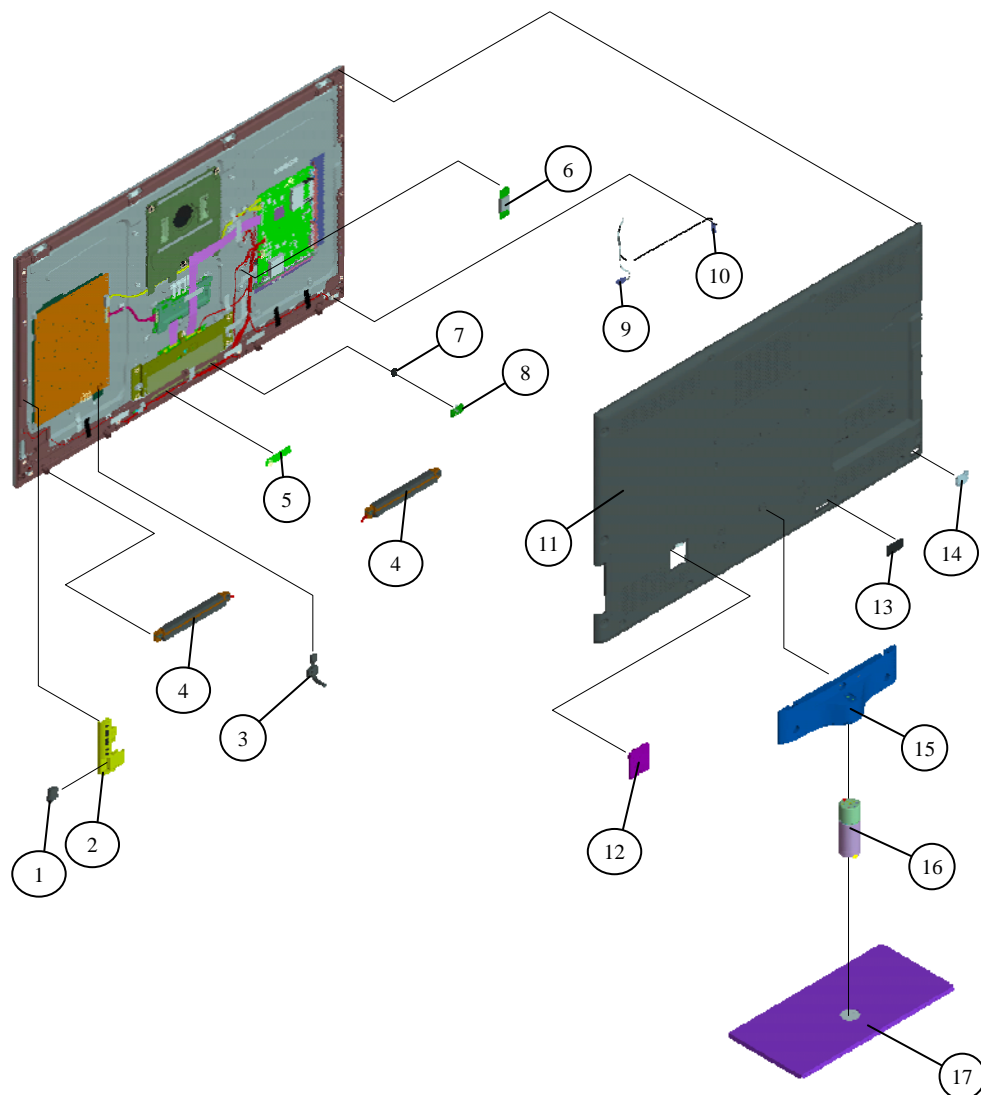
5-1-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	REMARK
51	A-1816-612-A	P-MOD (FDLL400NT01)(SERVICE)	
52	* FX0020631	TAPE, PWB (H)	
53	FX0093601	HLT2 MOUNT (B-O-AEP)	
54	FX0020401	SHEET (BAT-L METAL BOTTOM)	
55	FX0020501	SHEET (BAT-L METAL SIDE)	
56	FX0094701	BATL COMPL (SERVICE)	NX720(AEP)(RU)
	FX0096001	BATL COMPL (SERVICE)	NX720(I)
	FX0093401	BATL COMPL (SERVICE)	NX725
	FX0095701	BATL COMPL (SERVICE)	NX723
57	FX0021321	BRACKET BOTTOM (BAT-L METAL)	
	FX0019231	BRACKET BOTTOM (BAT-L METAL)	NX725
58	FX0019121	BRACKET SIDE (BAT-L METAL)	
59	FX0008301	SHEET, INSULATION (G4)	
60	FX0019411	STATIC CONVERTER (TV)-G4BW	
61	FX0093701	LD_BLK A MOUNT	
62	FX0021411	SPEAKER BOX ASSY	
63	FX0032001	CENTER CABINET(40SIR)	

## 5-2. KDL-46NX720/723/725

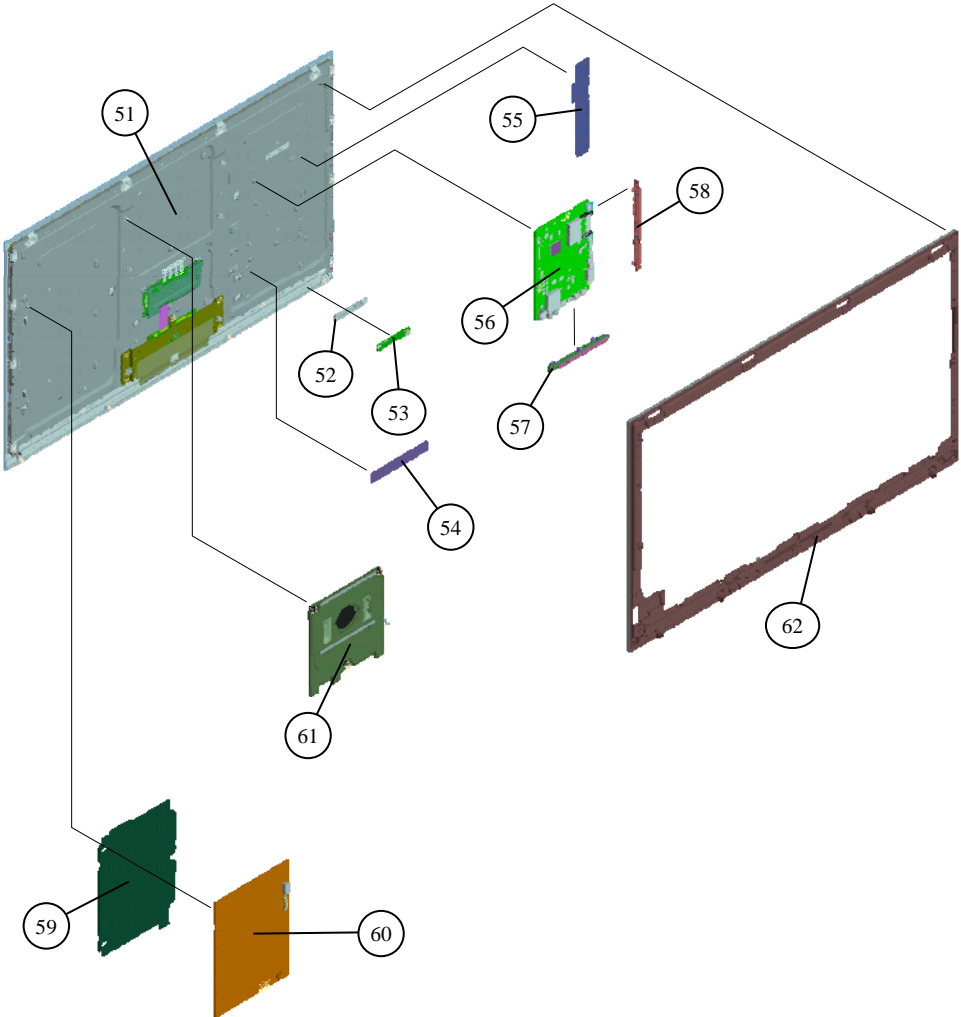
## 5-2-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	△ FX0019811	POWER SWITCH	
2	△ FX0019621	SWITCH UNIT	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	NX723(UK)
4	FX0020311	SPEAKER BOX ASSY (2X9CM)	
5	FX0093501	HEM2 MOUNT	
6	FX0012011	WIRELESS LAN CARD	
	FX0023711	WIRELESS LAN CARD	NX720(RU)
7	FX0020701	CAP, SEALING (CAMERA)	
8	FX0019511	CAMERA MODULE	
9	FX0012211	ANTENNA	
10	FX0019711	ANTENNA	
11	FX0029201	REAR COVER (46 EL) A	
12	△ FX0002711	COVER, AC(M)	
13	FX0018001	SHEET, ANT(C EL)	
14	FX0020901	COVER, ANT(L EL)	
15	FX0007801	STAND HEAD (ML9)	
16	FX0030211	NECK (L9)	
17	FX0009811	STAND, BASE A(L1)	

5-2. KDL-46NX720/723/725

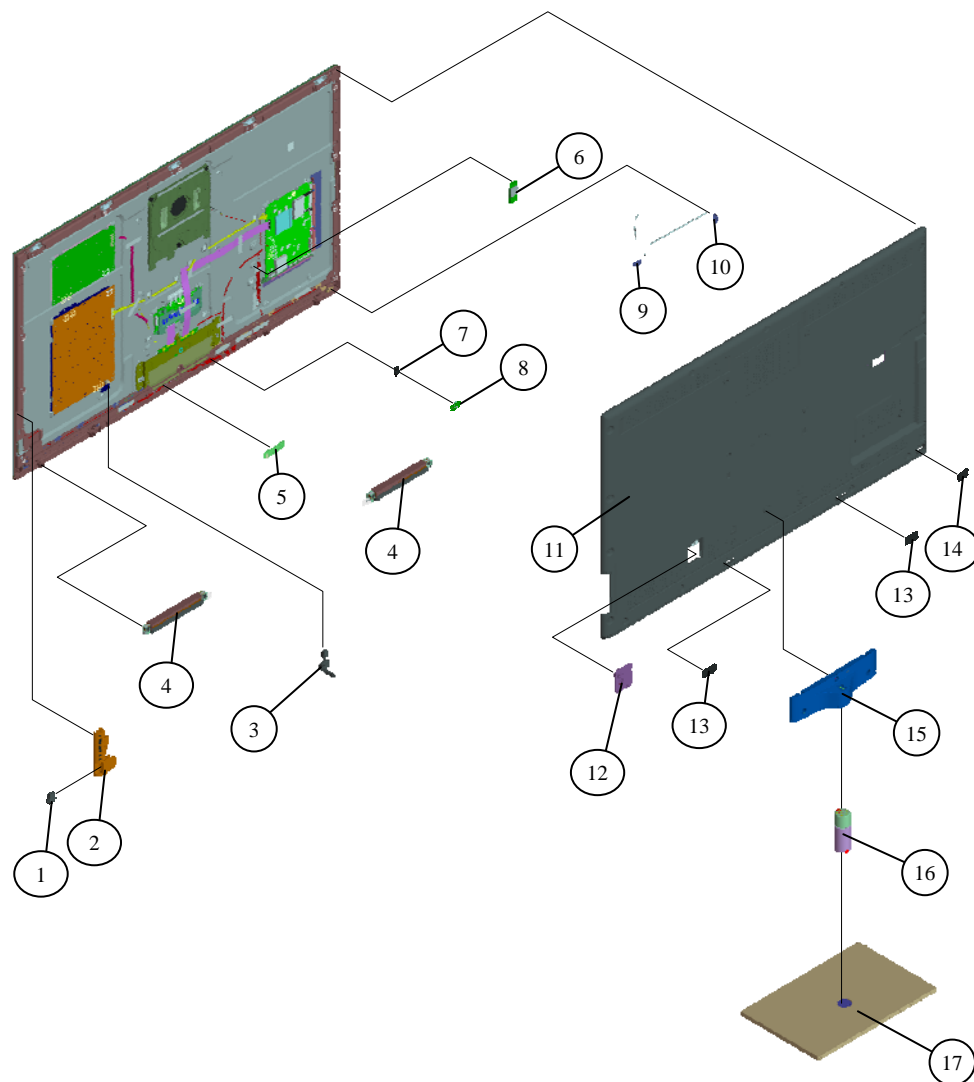
5-2-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	REMARK
51	A-1818-308-A	P-MOD (FDMY460LT01)(SERVICE)	
52	* FX0020631	TAPE, PWB (H)	
53	FX0093601	HLT2 MOUNT (B-O-AEP)	
54	FX0020401	SHEET (BAT-L METAL BOTTOM)	
55	FX0020501	SHEET (BAT-L METAL SIDE)	
56	FX0094701	BATL COMPL (SERVICE)	NX720(AEP)(RU)
	FX0096001	BATL COMPL (SERVICE)	NX720(I)
	FX0093401	BATL COMPL (SERVICE)	NX725
	FX0095701	BATL COMPL (SERVICE)	NX723
57	FX0021321	BRACKET BOTTOM (BAT-L METAL)	
	FX0019231	BRACKET BOTTOM (BAT-L METAL)	NX725
58	FX0019121	BRACKET SIDE (BAT-L METAL)	
59	FX0008301	SHEET, INSULATION (G4)	
60	FX0028511	STATIC CONVERTER (TV)-5GAW	
61	FX0024211	SPEAKER BOX ASSY	
62	FX0030301	CENTER CABINET(46SIR)	

## 5-3. KDL-55NX720/723/725

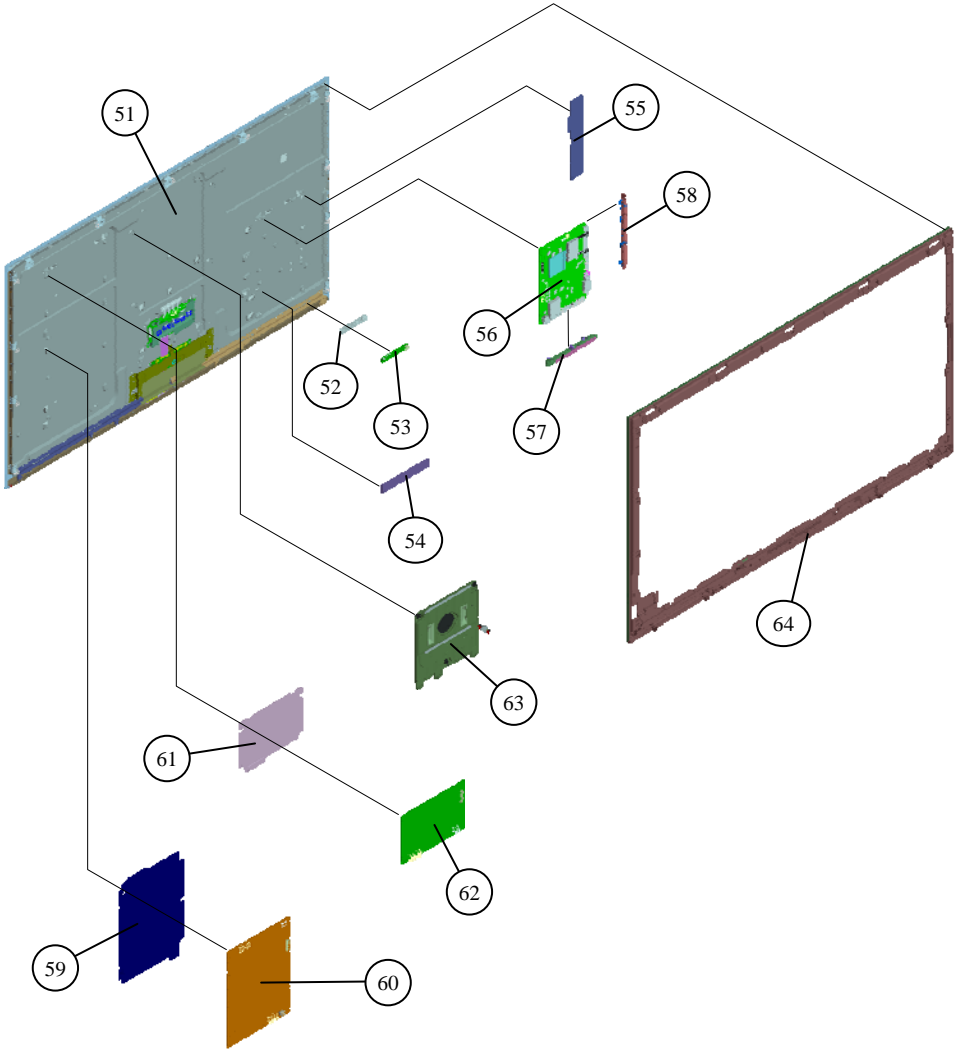
## 5-3-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	△ FX0019811	POWER SWITCH	
2	△ FX0019621	SWITCH UNIT	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	NX723(UK)
4	FX0020311	SPEAKER BOX ASSY (2X9CM)	
5	FX0093501	HEM2 MOUNT	
6	FX0012011	WIRELESS LAN CARD	
	FX0023711	WIRELESS LAN CARD	NX720(RU)
7	FX0020701	CAP, SEALING (CAMERA)	
8	FX0019511	CAMERA MODULE	
9	FX0012211	ANTENNA	
10	FX0019711	ANTENNA	
11	FX0023501	REAR COVER (55 EL) A	
12	△ FX0002711	COVER, AC(M)	
13	FX0018001	SHEET, ANT(C EL)	
14	FX0020901	COVER, ANT(L EL)	
15	FX0007801	STAND HEAD (ML9)	
16	FX0023211	NECK (LL9)	
17	FX0023311	STAND, BASE A(LL1)	

5-3. KDL-55NX720/723/725

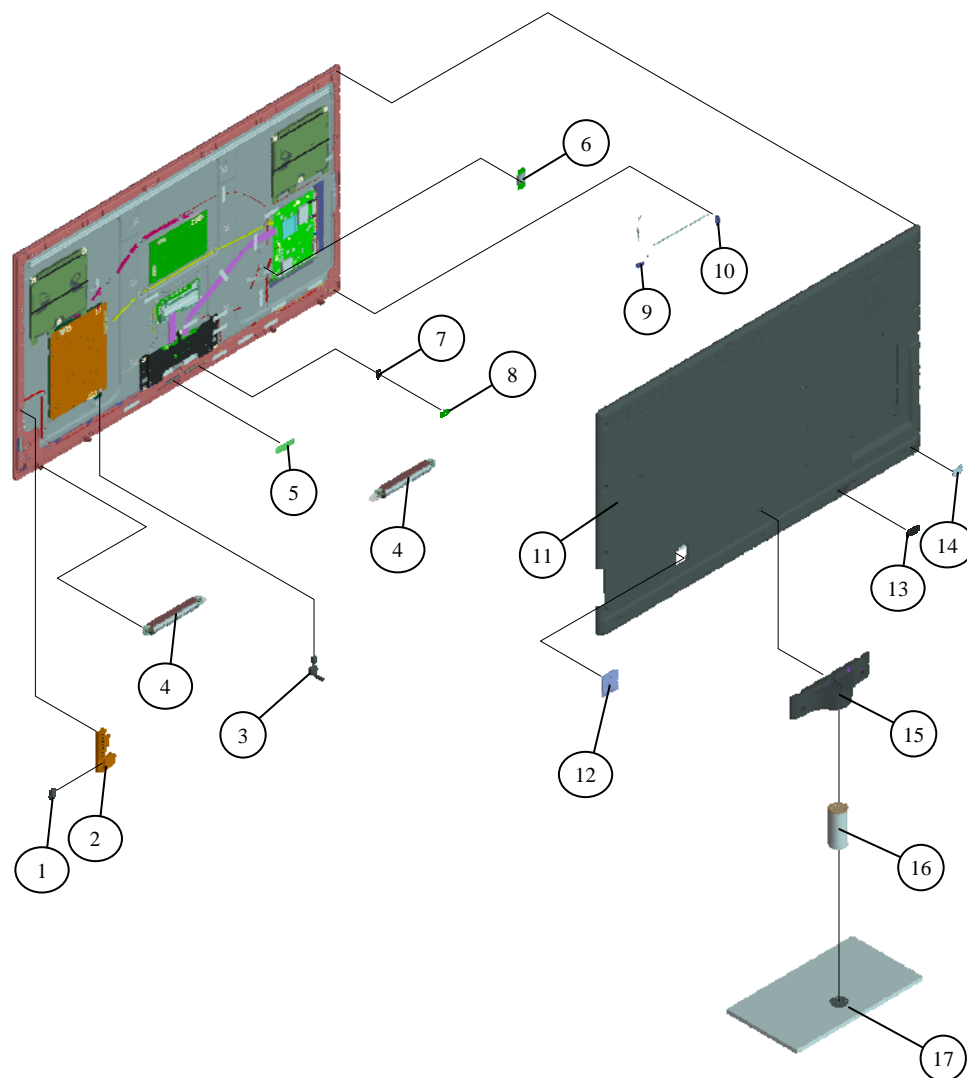
5-3-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	REMARK
51	A-1816-613-A	P-MOD (FDLL550LT01)(SERVICE)	
52	* FX0020631	TAPE, PWB (H)	
53	FX0093601	HLT2 MOUNT (B-O-AEP)	
54	FX0020401	SHEET (BAT-L METAL BOTTOM)	
55	FX0020501	SHEET (BAT-L METAL SIDE)	
56	FX0094701	BATL COMPL (SERVICE)	NX720(AEP)(RU)
	FX0096001	BATL COMPL (SERVICE)	NX720(I)
	FX0093401	BATL COMPL (SERVICE)	NX725
	FX0095701	BATL COMPL (SERVICE)	NX723
57	FX0021321	BRACKET BOTTOM (BAT-L METAL)	
	FX0019231	BRACKET BOTTOM (BAT-L METAL)	NX725
58	FX0019121	BRACKET SIDE (BAT-L METAL)	
59	FX0008301	SHEET, INSULATION (G4)	
60	FX0023811	STATIC CONVERTER (TV)-G6AW	
61	FX0010501	SHEET, INSULATION (G7)	
62	FX0023911	STATIC CONVERTER (TV)-G7A	
63	FX0024211	SPEAKER BOX ASSY	
64	FX0023401	CENTER CABINET(55 SIR)	

## 5-4. KDL-60NX720/723/725

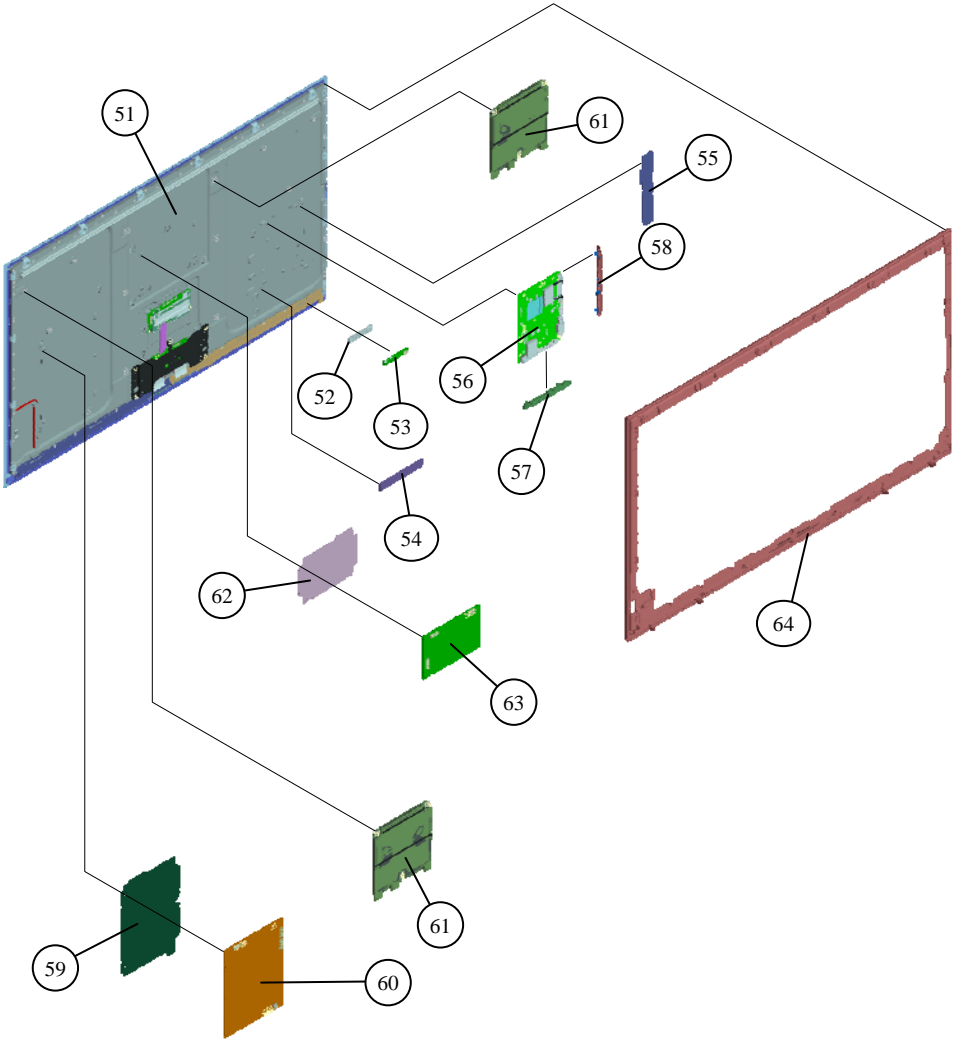
## 5-4-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	△ FX0019811	POWER SWITCH	
2	△ FX0019621	SWITCH UNIT	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	NX723(UK)
4	FX0020311	SPEAKER BOX ASSY (2X9CM)	
5	FX0093501	HEM2 MOUNT	
6	FX0012011	WIRELESS LAN CARD	
7	FX0020701	CAP, SEALING (CAMERA)	
8	FX0019511	CAMERA MODULE	
9	FX0012211	ANTENNA	
10	FX0019711	ANTENNA	
11	FX0029801	REAR COVER (60 EL) A	
12	△ FX0002711	COVER, AC(M)	
13	FX0018001	SHEET, ANT(C EL)	
14	FX0020901	COVER, ANT(L EL)	
15	FX0029411	STAND HEAD (3L9)	
16	FX0022611	NECK (3L9)	
17	FX0029511	STAND, BASE A(3L1)	

5-4. KDL-60NX720/723/725

5-4-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	REMARK
51	A-1810-303-A	P-MOD (FDHY600LT01)(SERVICE)	
52	* FX0020631	TAPE, PWB (H)	
53	FX0093601	HLT2 MOUNT (B-O-AEP)	
54	FX0020401	SHEET (BAT-L METAL BOTTOM)	
55	FX0020501	SHEET (BAT-L METAL SIDE)	
56	FX0097001	BATL COMPL (SERVICE)	NX720(AEP)
	FX0097402	BATL COMPL (SERVICE)	NX720(I)
	FX0097101	BATL COMPL (SERVICE)	NX725
	FX0097202	BATL COMPL (SERVICE)	NX723
57	FX0021321	BRACKET BOTTOM (BAT-L METAL)	
	FX0019231	BRACKET BOTTOM (BAT-L METAL)	NX725
58	FX0019121	BRACKET SIDE (BAT-L METAL)	
59	FX0008301	SHEET, INSULATION (G4)	
60	FX0023811	STATIC CONVERTER (TV)-G6AW	
61	FX0024211	SPEAKER BOX ASSY	
62	FX0010501	SHEET, INSULATION (G7)	
63	FX0023911	STATIC CONVERTER (TV)-G7A	
64	FX0029701	CENTER CABINET(60 SIR)	

## 5-5. OTHER PARTS

### 5-5-1. MISCELLANEOUS

#### 40 Inches

FX0003991	BAG, SCREW ASSY (M) - (See note on page 140)
FX0019911	CABLE CONVERSION - (Not shown)
FX0020011	CABLE CONVERSION - (Not shown)
FX0005901	CLAMPER CABLE - (Not shown)
FX0020221	CONNECTOR ASSY - (CN6002(G4B)CN6003(G4B)ECOSW(1))
* FX0008510	CONNECTOR ASSY 14P - (CN6801(G4B)CN1002(BLK)(1))
FX0021511	CONNECTOR ASSY 28P - (CN6001(BATL)CN6002(BATL)CN6151(G4B)(1))
* FX0008941	FLEXIBLE FLAT CABLE 56 PIN - (CN11(TCON)CN11(LD)(1))
FX0020111	FLEXIBLE FLAT CABLE N1 40S - (CN2001(BATL)PANEL(1))
* FX0019311	GASKET (TU) - (Not shown)
FX0021659	HARNESS ASSY - (CN9006(BATL)CN001(HLT2)HEM2-LOGO-WIFI-CAMERA-SW/CN4601(BATL)SP(1))
FX0021101	LABEL (BATL METAL BOTTOM) - (Not shown)
FX0021811	LABEL (BATL METAL BOTTOM) - (Not shown) - (NX725)
FX0021001	LABEL (BATL METAL SIDE) - (Not shown)
FX0001401	SHEET (CORE) C - (Not shown)
FX0002001	SHEET RADIATION (BAT-L/V) - (Not shown)
FX0010301	SPACER (GA) - (Not shown)
FX0002402	SPACER (GB) - (Not shown)



#### 46 Inches

FX0001191	BAG, SCREW ASSY (L) - (See note on page 140)
FX0019911	CABLE CONVERSION - (Not shown)
FX0020011	CABLE CONVERSION - (Not shown)
FX0005901	CLAMPER CABLE - (Not shown)
FX0020221	CONNECTOR ASSY - (CN6002(G5)CN6003(G5)ECOSW(1))
FX0028918	CONNECTOR ASSY 14P - (CN6801(G5A)CN2001(LD)(1))
FX0030121	CONNECTOR ASSY 28P - (CN6001(BATL)CN6002(BATL)CN6151(G5A)(1))
FX0030011	FLEXIBLE FLAT CABLE N1 46S - (CN2001(BATL)PANEL(1))
* FX0023601	GASKET (TU) - (Not shown)
FX0030469	HARNESS ASSY - (CN9006(BATL)CN001(HLT2)HEM2-LOGO-WIFI-CAMERA-SW/CN4601(BATL)SP(1))
FX0021101	LABEL (BATL METAL BOTTOM) - (Not shown)
FX0021811	LABEL (BATL METAL BOTTOM) - (Not shown) - (NX725)
FX0021001	LABEL (BATL METAL SIDE) - (Not shown)
FX0001401	SHEET (CORE) C - (Not shown)
FX0002001	SHEET RADIATION (BAT-L/V) - (Not shown)
FX0010301	SPACER (GA) - (Not shown)
FX0002402	SPACER (GB) - (Not shown)

## 55 Inches

FX0001191	BAG, SCREW ASSY (L) - (See note on page 140)
FX0019911	CABLE CONVERSION - (Not shown)
FX0020011	CABLE CONVERSION - (Not shown)
FX0005901	CLAMPER CABLE - (Not shown)
FX0024121	CONNECTOR ASSY - (CN6003(G6)CN6002(G6)ECOSW(1))
* FX0024329	CONNECTOR ASSY 14P - (CN6700(G7)CN2001(LD)(1))
FX0022132	CONNECTOR ASSY 28P - (CN6101(G6)-CN6001(BATL)-CN6002(BATL)CN8003(T-CON)(1))
FX0010921	CONNECTOR ASSY 2P - (CN6502(G6)-CN6601(G7/G8)(1))
FX0011021	CONNECTOR ASSY 2P - (CN6501(G6)-CN6600(G7/G8)(1))
* FX0011545	CONNECTOR ASSY 7P - (CN6102(G6)-CN6701(G7/G8)(1))
FX0024011	FLEXIBLE FLAT CABLE N1 55S - (CN2001(BATL)PANEL(1))
* FX0023601	GASKET (TU) - (Not shown)
FX0022277	HARNESS ASSY - (CN9006(BATL)CN001(HLT2)HEM2-LOGO-WIFI-CAMERA-SW/CN4601(BATL)SP(1))
FX0021101	LABEL (BATL METAL BOTTOM) - (Not shown)
FX0021811	LABEL (BATL METAL BOTTOM) - (Not shown) - (NX725)
FX0021001	LABEL (BATL METAL SIDE) - (Not shown)
FX0001401	SHEET (CORE) C - (Not shown)
FX0002001	SHEET RADIATION (BAT-L/V) - (Not shown)
FX0010301	SPACER (GA) - (Not shown)

## 60 Inches

FX0031031	BAG, SCREW ASSY (3L) - (See note on page 140)
FX0019911	CABLE CONVERSION - (Not shown)
FX0020011	CABLE CONVERSION - (Not shown)
FX0005901	CLAMPER CABLE - (Not shown)
FX0024121	CONNECTOR ASSY - (CN6003(G6)CN6002(G6)ECOSW(1))
* FX0030781	CONNECTOR ASSY 14P - (CN6700(G7)CN2001(LD)(1))
* FX0030882	CONNECTOR ASSY 28P - (CN6001(BATL)-CN6002(BATL)CN6101(G6)(T-CON)(1))
FX0030521	CONNECTOR ASSY 2P - (CN6502(G6)CN6501(G6)CN6601(G7/G8)CN6600(GT/G8)(1))
* FX0030646	CONNECTOR ASSY 7P - (CN6102(G6)-CN6701(G7/G8)(1))
* FX0029911	FLEXIBLE FLAT CABLE N1 60S - (CN2001(BATL)PANEL(1))
* FX0023601	GASKET (TU) - (Not shown)
* FX0030983	HARNESS ASSY - (CN9006(BATL)CN001(HLT2)HEM2-LOGO-WIFI-CAMERA-SW/CN4601(BATL)SP(1))
FX0021101	LABEL (BATL METAL BOTTOM) - (Not shown)
FX0021811	LABEL (BATL METAL BOTTOM) - (Not shown) - (NX725)
FX0021001	LABEL (BATL METAL SIDE) - (Not shown)
FX0002001	SHEET RADIATION (BAT-L/V) - (Not shown)
FX0010301	SPACER (GA) - (Not shown)

## 5-5-2. ACCESSORIES

* FX0021721	MANUAL, INSTRUCTION (NX720AEP)
* FX0021722	MANUAL, INSTRUCTION (NX720AEP)
* FX0021723	MANUAL, INSTRUCTION (NX720AEP)
* FX0021971	MANUAL, INSTRUCTION (NX725AEP)
* FX0021972	MANUAL, INSTRUCTION (NX725AEP)
* FX0021973	MANUAL, INSTRUCTION (NX725AEP)
* FX0022031	MANUAL, INSTRUCTION (NX720AEP)
* FX0022032	MANUAL, INSTRUCTION (NX720AEP)
* FX0022033	MANUAL, INSTRUCTION (NX723AEP)
* FX0022352	MANUAL, INSTRUCTION (NX720IT)
* FX0022353	MANUAL, INSTRUCTION (NX720IT)
* FX0022413	MANUAL, INSTRUCTION (NX723UK)
* FX0024442	MANUAL, INSTRUCTION (NX720RU)
FX0006611	REMOTE COMMANDER (RM-ED044)

### **Note**

The "Bag , Screw Assy" contains the following:-

Screw, +PSW M5x16

Hex Wrench

User Screw ST

**END**

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**9-888-398-01**

**Sony Corporation  
Sony UK  
Service Promotions Dept.**

**English**  
11CP7100-1  
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# APPENDIX-1

## PROCEDURE TO REMOVE THE REAR COVER

1. Remove the screws from the REAR COVER and the COVER AC.
2. Open the REAR COVER with the “COVER AC” and AC cable attached.

Note: Make sure to hold the cable not to give any tension to the connector and scratch damage for the cable.

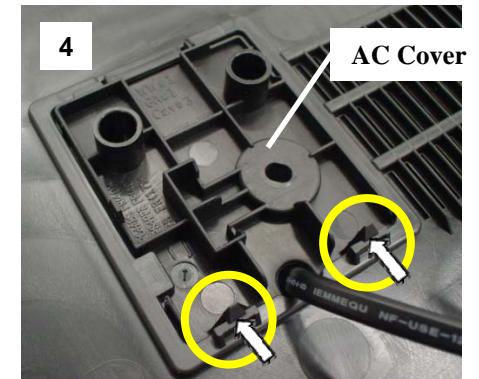
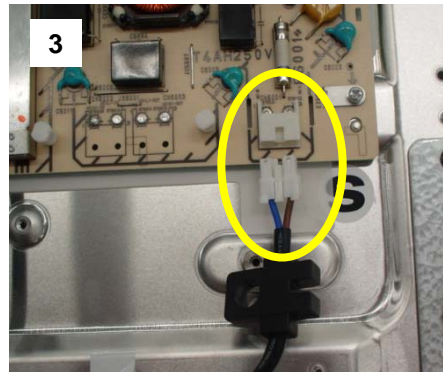
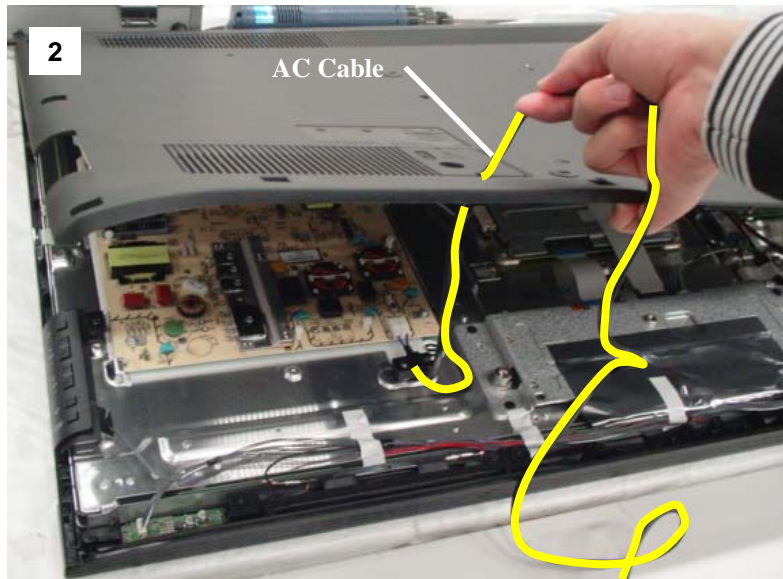
3. Release the AC cable connector.
4. Release the hooks of the COVER AC and remove it.

Note:

Take care not to cut your hands when releasing the hooks, especially on the metal RC.

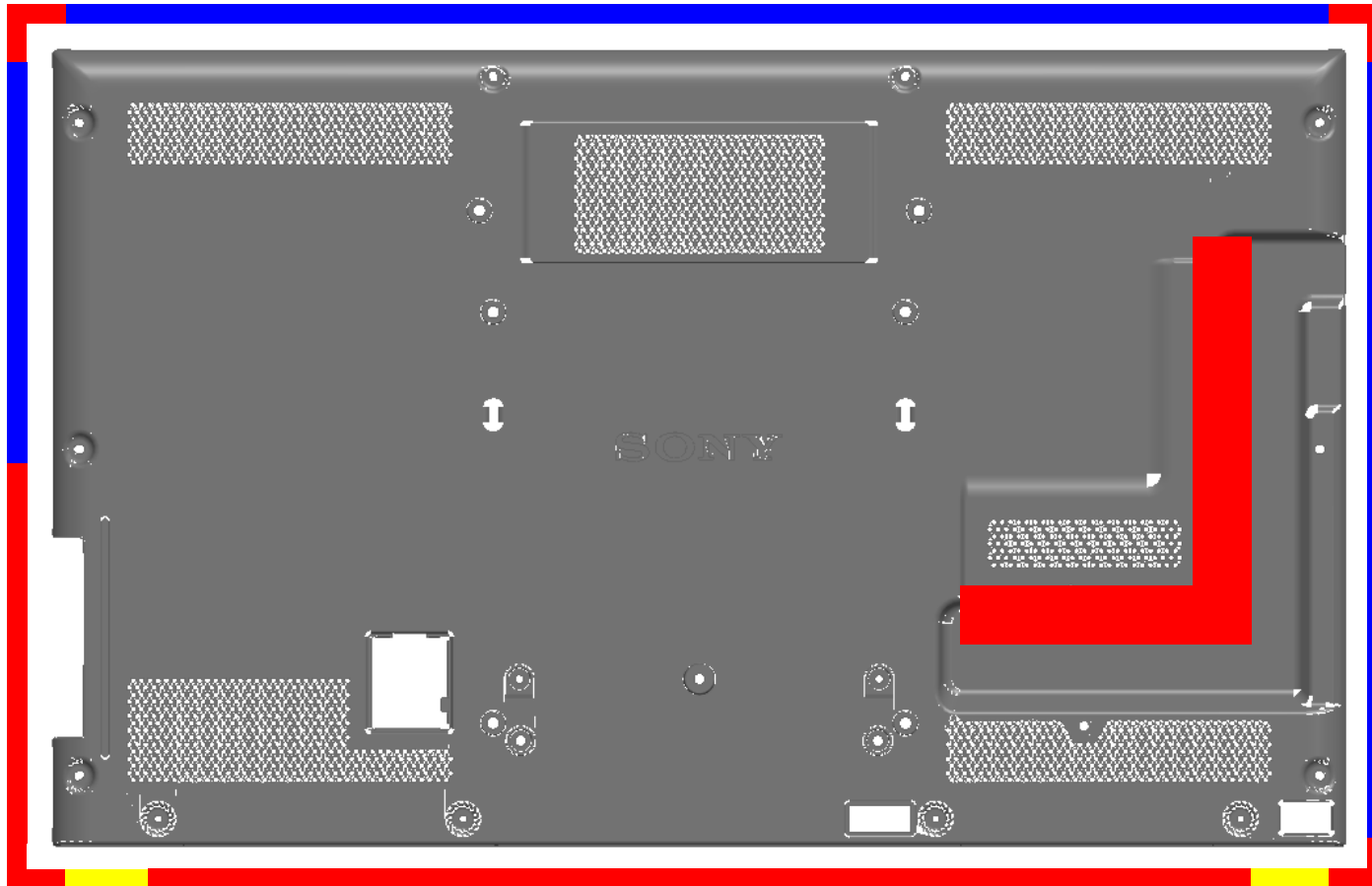
Confirm the hooks are not broken before re-using the COVER AC.

If the hooks are broken please replace with a new one.



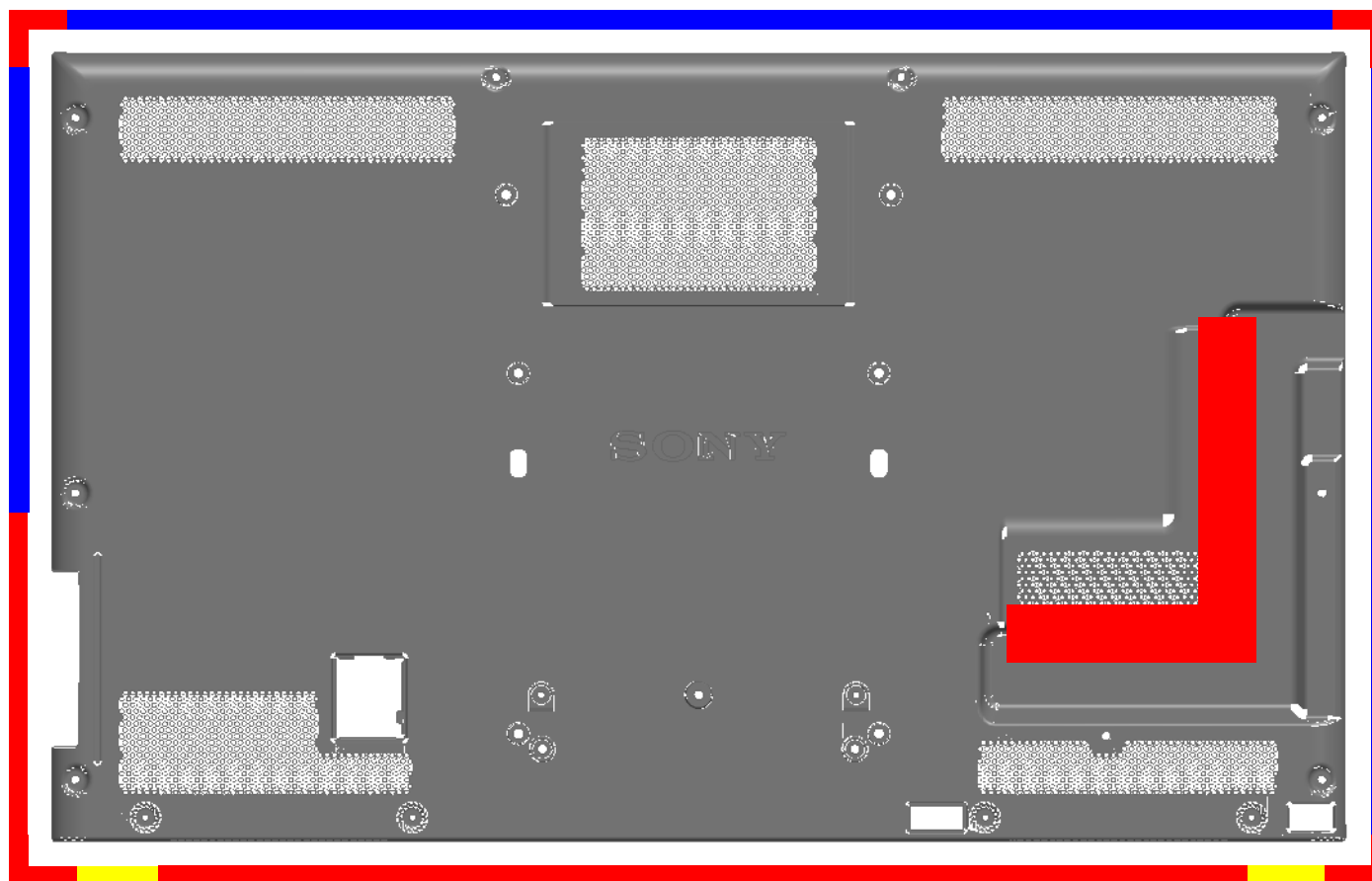
# APPENDIX X-2

## CAUTION FOR THE SHARP EDGES OF THE REAR COVER(40)



-  OK to grab  
(curling area)
-  OK to grab with care  
(sharp edge area)
-  NG to grab  
(sharp edge and  
easy to deform.)

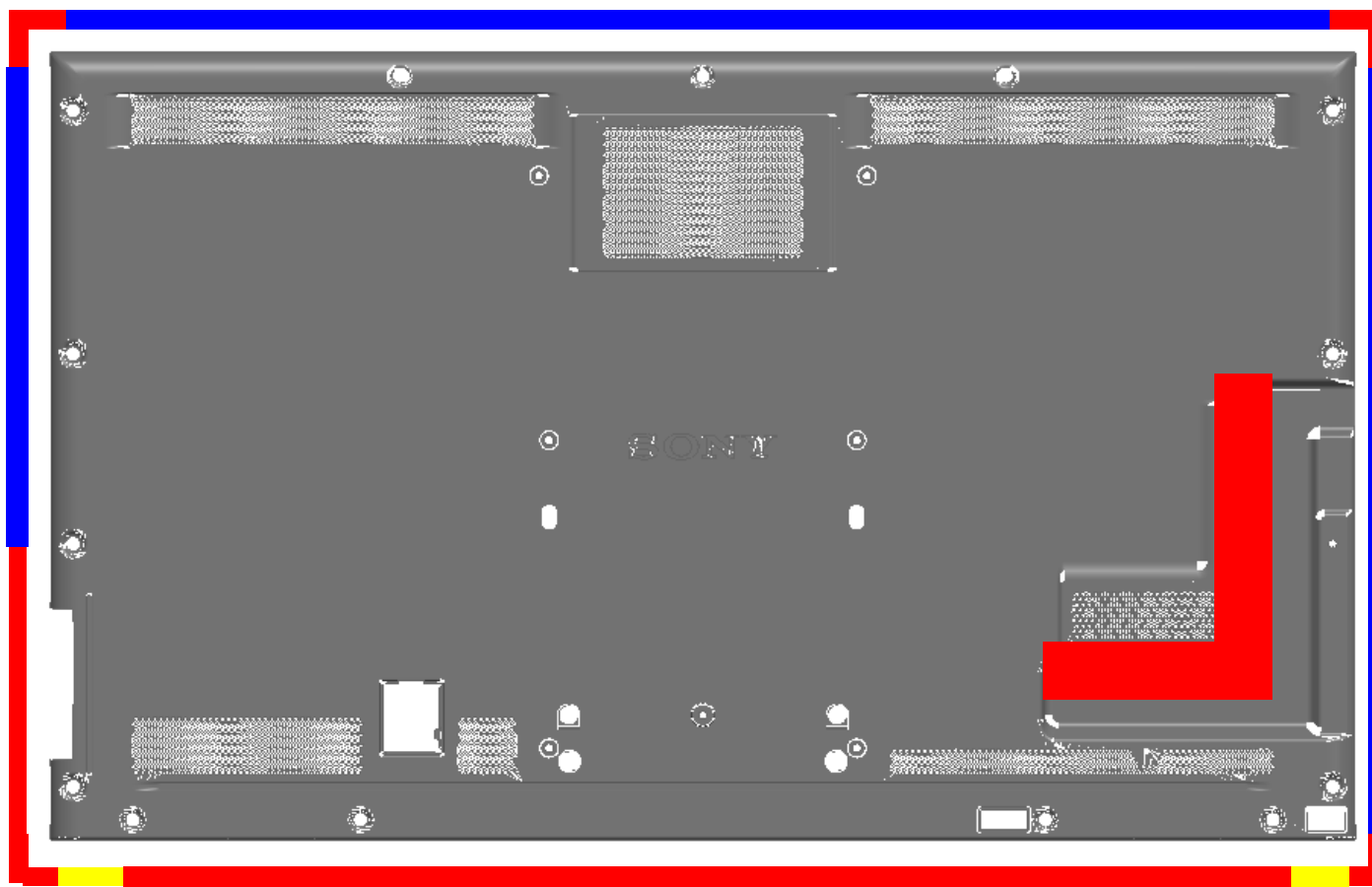
## CAUTION FOR THE SHARP EDGES OF THE REAR COVER(46)



- OK to grab  
(curling area)
- OK to grab with care  
(sharp edge area)
- NG to grab  
(sharp edge and  
easy to deform.)

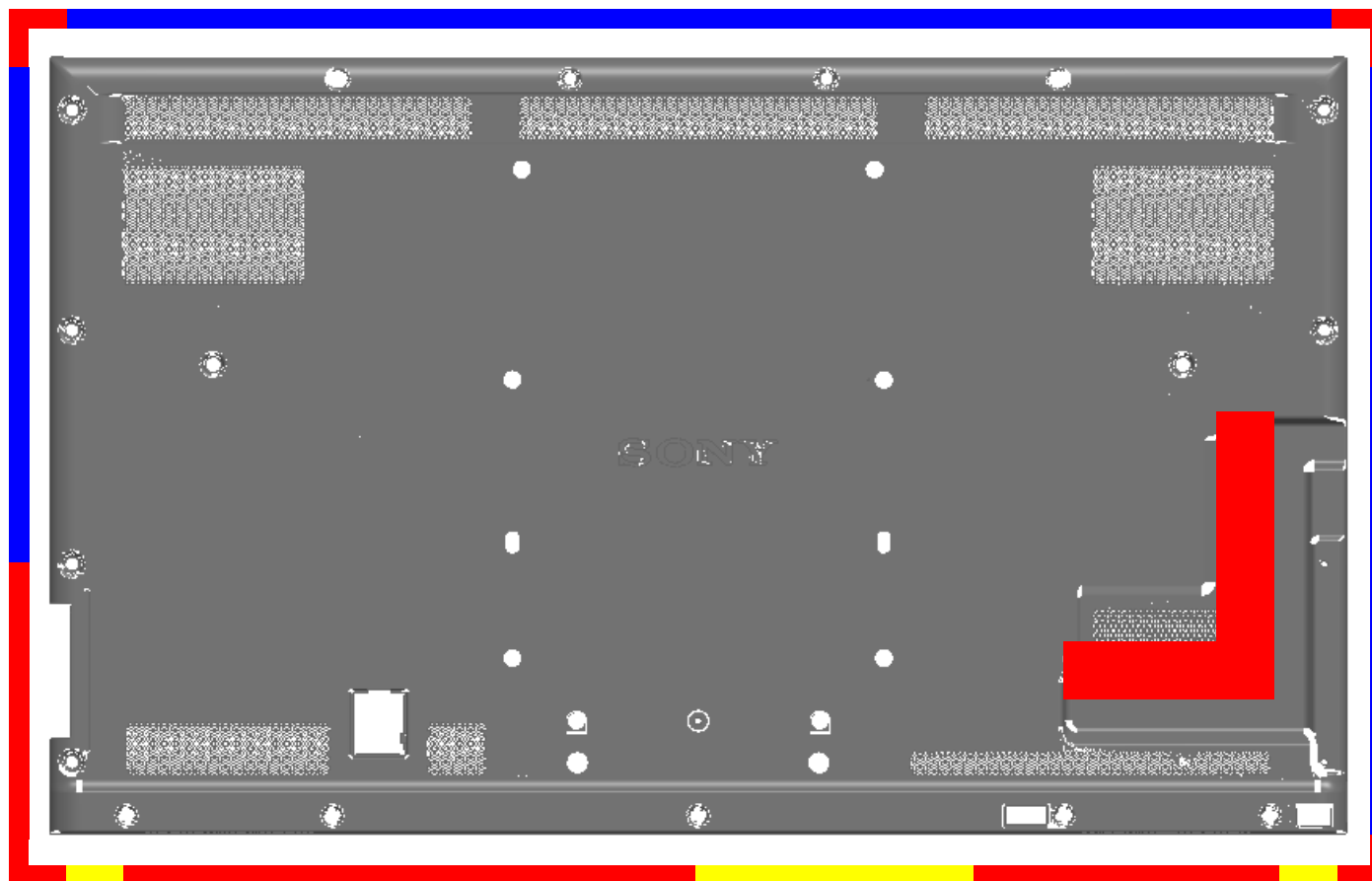


CAUTION FOR THE SHARP EDGES OF THE REAR COVER(55)



- OK to grab  
(curling area)
- OK to grab with care  
(sharp edge area)
- NG to grab  
(sharp edge and  
easy to deform.)

## CAUTION FOR THE SHARP EDGES OF THE REAR COVER(60)



- OK to grab  
(curling area)
- OK to grab with care  
(sharp edge area)
- NG to grab  
(sharp edge and  
easy to deform.)