

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

ORIGINAL MANUAL ISSUE DATE: 2/2011

AZ2F CHASSIS

Segment: 3a-2

Version	Date	Subject
1.0	02/2011	Original manual issue.
2.0	03/2011	Addition of 55 Inch Models.
3.0	03/2011	Addition of 37 Inch UK Model
4.0	03/2011	Update Error Code Table (P11)
5.0	05/2011	Addition of tape part number (P142)
6.0	06/2011	Serial Number update (P1)
7.0	09/2011	Addition of part number. (P135, P137, P142, P158, P159)
8.0	10/2011	Part number change. (P14)

LCD Digital Color TV

SONY®



KDL-32/37/40/46/55EX720,721,723,724,725,726,727,728,729 (AEP/UK/RUSSIA)

S/N range 3,000,001-4,510,000 and 5450001~5500000(FX)

9-888-389-08

SERVICE MANUAL

AZ2F CHASSIS

Segment: 3a-2

LCD Digital Color TV

SONY®

MODEL LIST

<u>MODEL</u>	<u>COLOR</u>	<u>COMMANDER</u>	<u>DEST.</u>
KDL-32EX720	Black	RM-ED044	AEP/RUSSIA
KDL-32EX721	Black	RM-ED041	AEP
KDL-32EX723	Black	RM-ED044	AEP/UK
KDL-32EX724	Black	RM-ED041	AEP/UK
KDL-32EX725	Black	RM-ED044	AEP
KDL-32EX726	Black	RM-ED041	AEP
KDL-32EX727	Black	RM-ED041	AEP
KDL-32EX728	Black	RM-ED041	AEP
KDL-32EX729	Black	RM-ED041	AEP
KDL-37EX720	Black	RM-ED044	AEP
KDL-37EX723	Black	RM-ED044	UK
KDL-37EX725	Black	RM-ED044	AEP
KDL-40EX720	Black	RM-ED044	AEP/RUSSIA
KDL-40EX721	Black	RM-ED041	AEP
KDL-40EX723	Black	RM-ED044	AEP/UK
KDL-40EX724	Black	RM-ED041	AEP/UK
KDL-40EX725	Black	RM-ED044	AEP
KDL-40EX726	Black	RM-ED041	AEP
KDL-40EX727	Black	RM-ED041	AEP
KDL-40EX728	Black	RM-ED041	AEP
KDL-40EX729	Black	RM-ED041	AEP

<u>MODEL</u>	<u>COLOR</u>	<u>COMMANDER</u>	<u>DEST.</u>
KDL-46EX720	Black	RM-ED044	AEP
KDL-46EX721	Black	RM-ED041	AEP
KDL-46EX723	Black	RM-ED044	AEP/UK
KDL-46EX724	Black	RM-ED041	AEP/UK
KDL-46EX725	Black	RM-ED044	AEP
KDL-46EX726	Black	RM-ED041	AEP
KDL-46EX727	Black	RM-ED041	AEP
KDL-46EX728	Black	RM-ED041	AEP
KDL-46EX729	Black	RM-ED041	AEP
KDL-55EX720	Black	RM-ED044	AEP
KDL-55EX721	Black	RM-ED041	AEP
KDL-55EX723	Black	RM-ED044	AEP/UK
KDL-55EX725	Black	RM-ED044	AEP

WARNINGS AND CAUTIONS - ENGLISH

CAUTION

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

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

WARNING!!

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

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

CARRYING THE TV

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

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

SAFETY-RELATED COMPONENT WARNING!!

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

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

WARNINGS AND CAUTIONS - FRENCH

ATTENTION!!

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

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

WARNING!!

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

POUR TRANSPORTER LE TÉLÉVISEUR

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

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

ALERTE!!

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

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

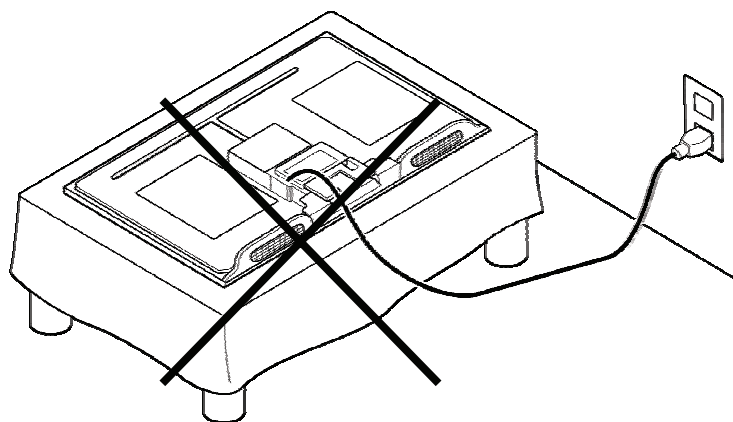
Les composants identifiés par une trame et par une marque ! sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel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

USE CAUTION WHEN HANDLING THE LCD PANEL

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

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

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

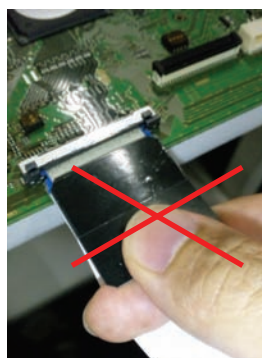


HANDLING THE FFC

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.



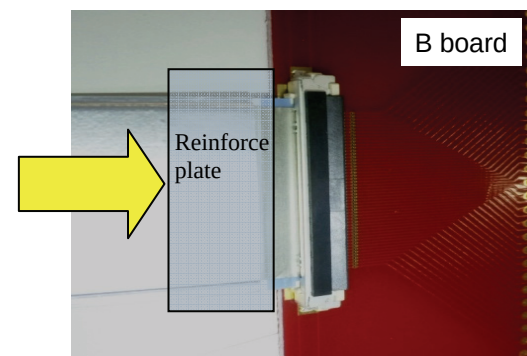
<GOOD>



<NG>

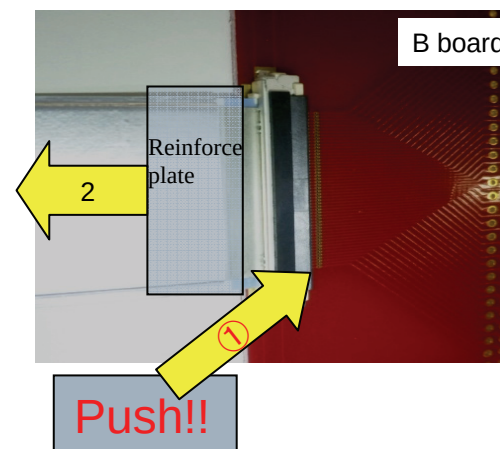
< Insertion >

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

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

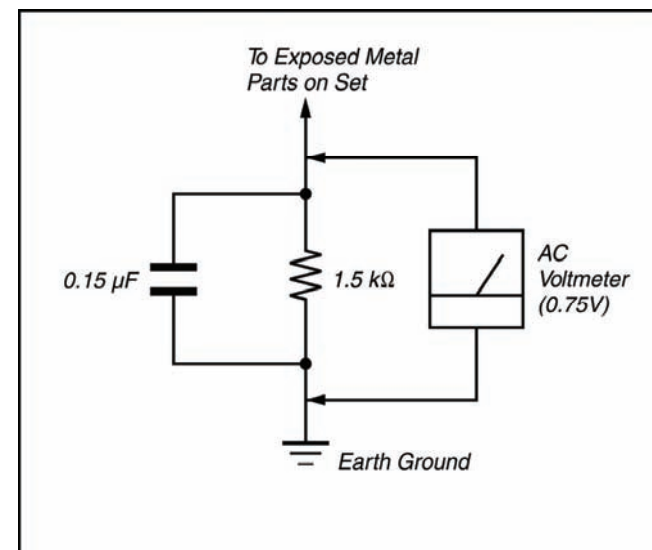
1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground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

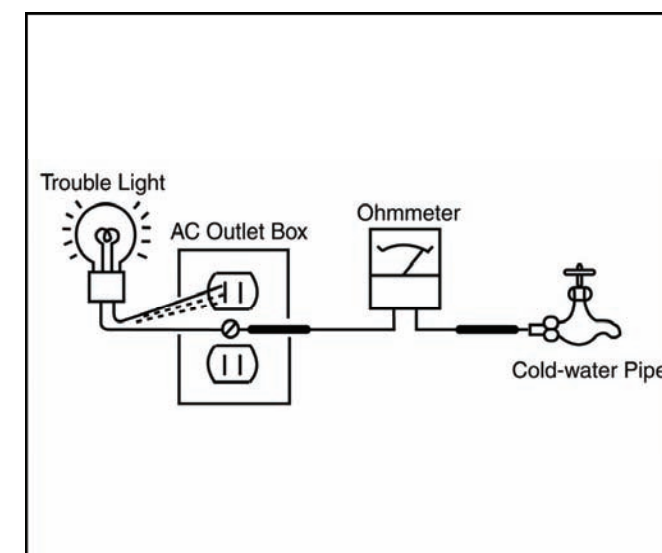


Figure B. Checking for earth ground.

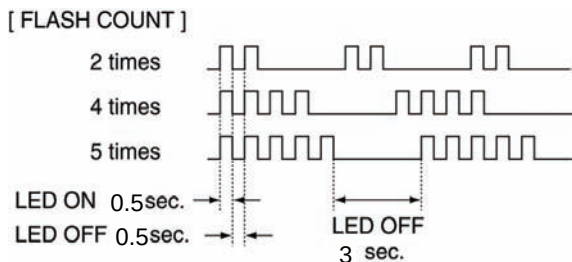
SELF DIAGNOSIS FUNCTION

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.



Note: codes 101~104 can be seen on OSD (See Page 11) which are not error codes for service.

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	-	Reserved for BTv
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 ^{*} − → TV POWER

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

[SELF DIAGNOSTIC SAMPLE SCREEN DISPLAY]

STBY LED flash time

Software developer codes
(not error code for service)

Error count (00-99)

Panel operation time by hour (MAX:65535)

Boot count (MAX:65535)

Total operation time by hour (MAX:65535)

SELF CHECK		<1> NEXT PAGE->	
000	RGB_SEN	-----	00
000	RESERVED	-----	00
000	RESERVED	-----	00
002	MAIN_POWE	-----	00
003	DC_ALERT	-----	00
003	AUD_PROT	-----	00
004	VLED	-----	00
004	BALANCER	-----	00
005	HFR_ERR	-----	00
005	TCON_ERR	-----	00
005	P-ID-ERR	-----	00
006	BACKLITE	-----	00
007	TEMP_ERR	-----	00
007	FAN_ERR	-----	00
010	EMITTER	-----	00
011	IA	-----	00
101	VPC_WDT	-----	00
102	MEPS_WDT	-----	00
103	HOST_WDT	-----	00
104	STBY_WDT	-----	00

12345 67891 23456

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

Clearing the Self Check Diagnostic List

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

Exiting the Self-diagnostic screen

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

SEC 1. DISASSEMBLY

- There is a clutch in the yellow frame[]. Therefore please be careful during the disassembly or assembly of parts.

Note: When removing the rear cover, to prevent damaging the rear cover and power supply cord, please refer to **“APPENDIX-1”**.

Note: The Bezel and LCD panel have installation points with double sided tape.

For the procedure of those disassembly and assembly methods, please refer to **“APPENDIX-2”**.

Note: A Metal type Rear Cover is used on these models.

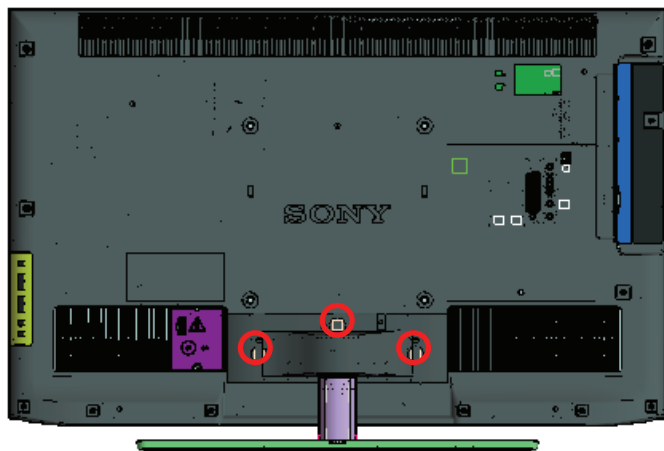
Due to the no curing finish, when handling the Rear Cover, please pay special attention to the sharp edges.

When handling the Rear Cover, the wearing of gloves is recommended.

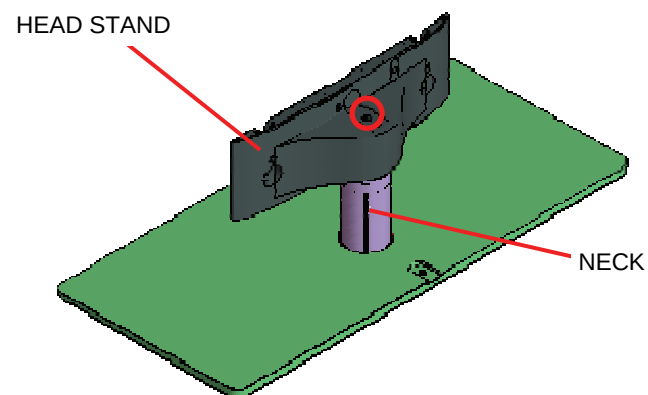
For the location of the sharp edges, please refer to **“APPENDIX-3”**.

1-1. KDL-32EX720/721/723/724/725/726/727/728/729

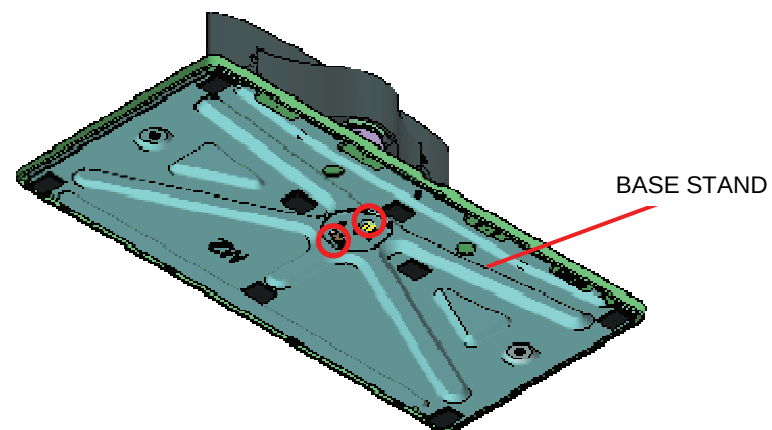
1-1-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



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



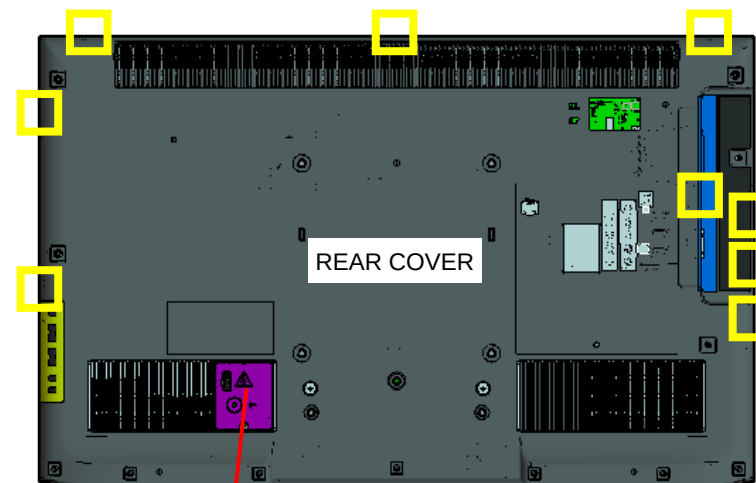
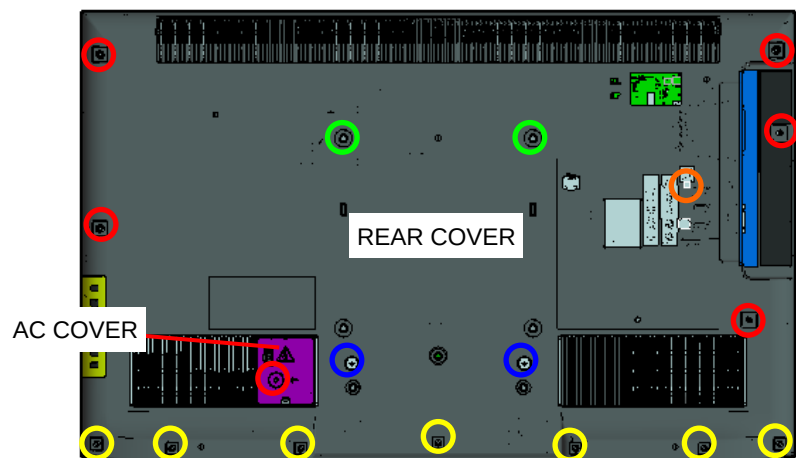
1 Screw (USER SCREW ST) – Inside bag, screw assy



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

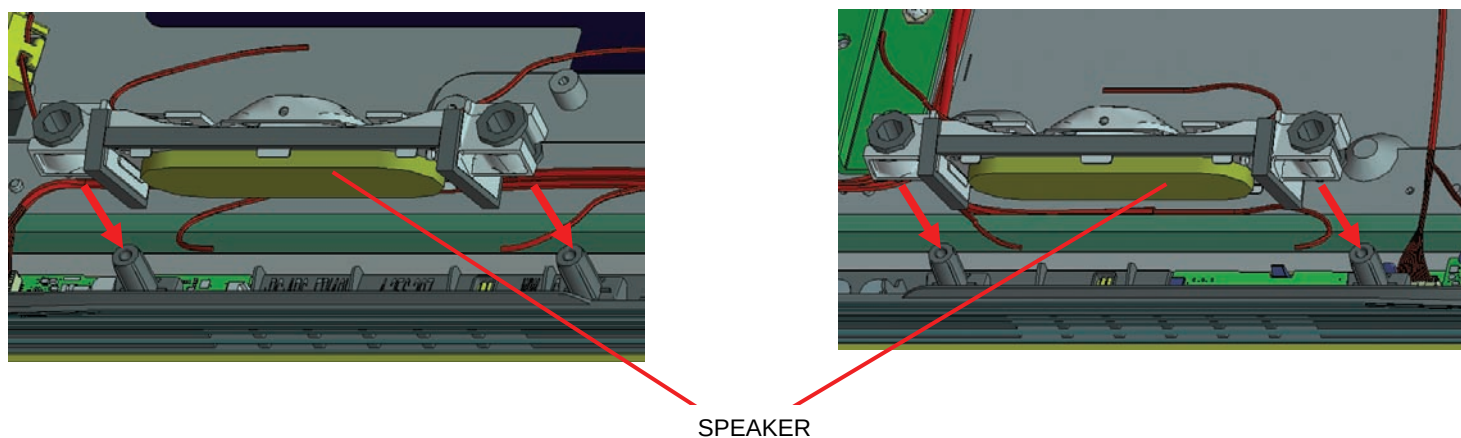
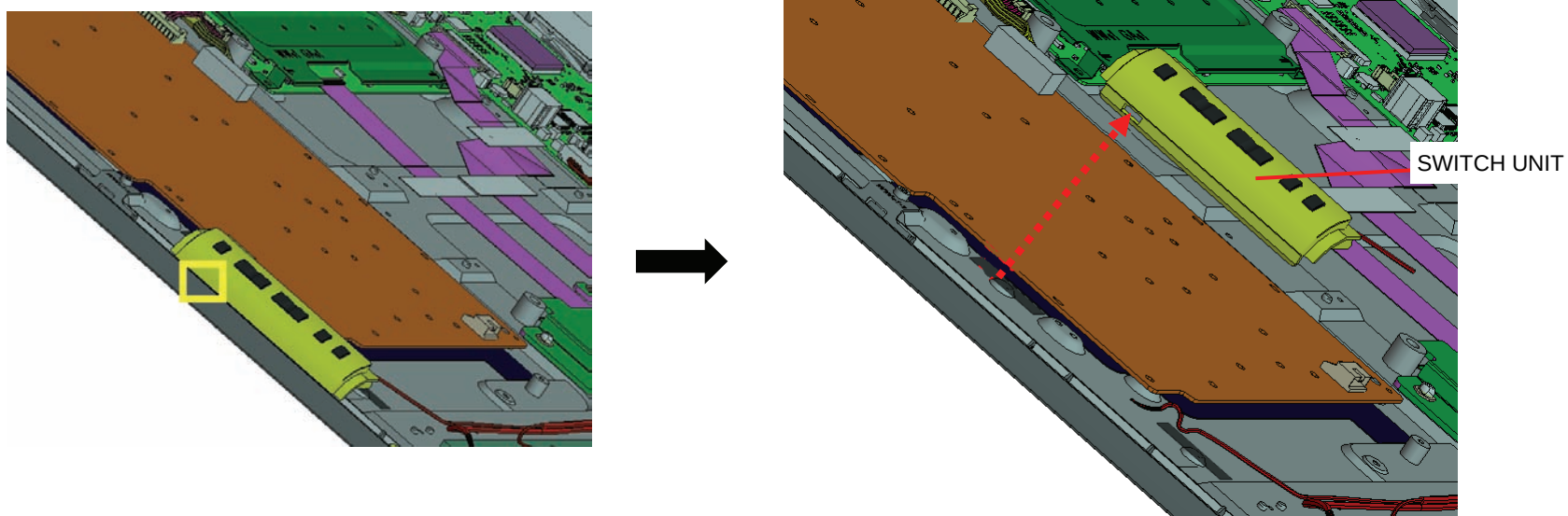
1-1. KDL-32EX720/721/723/724/725/726/727/728/729

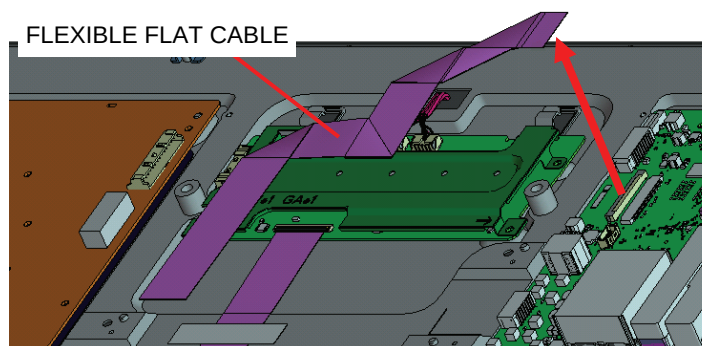
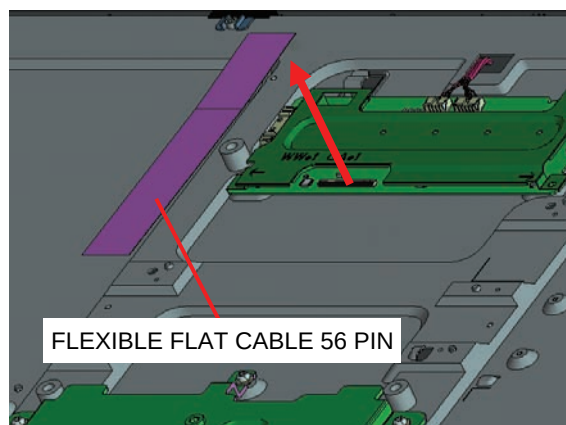
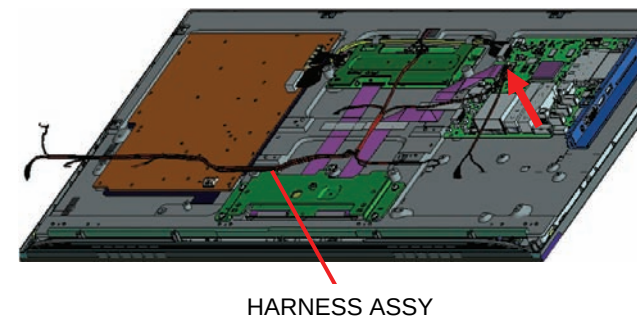
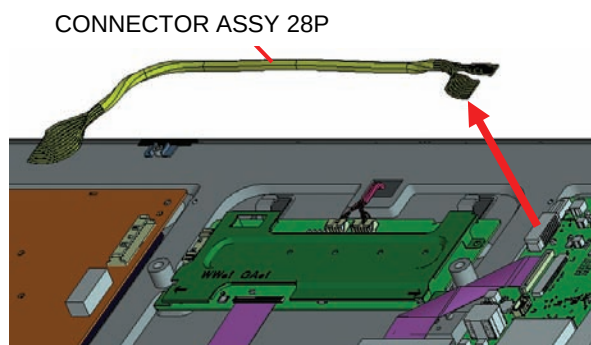
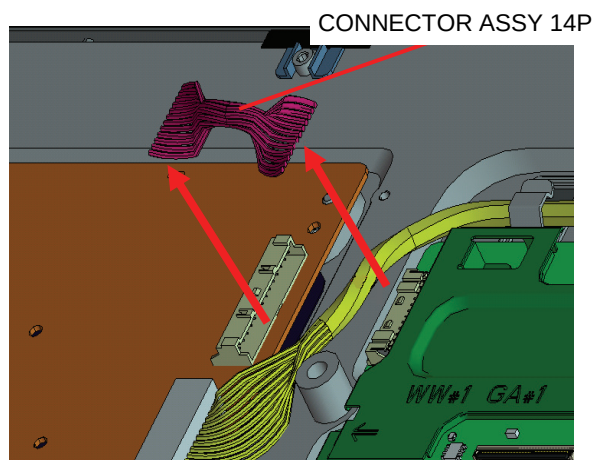
1-1-2. REAR COVER AND AC COVER

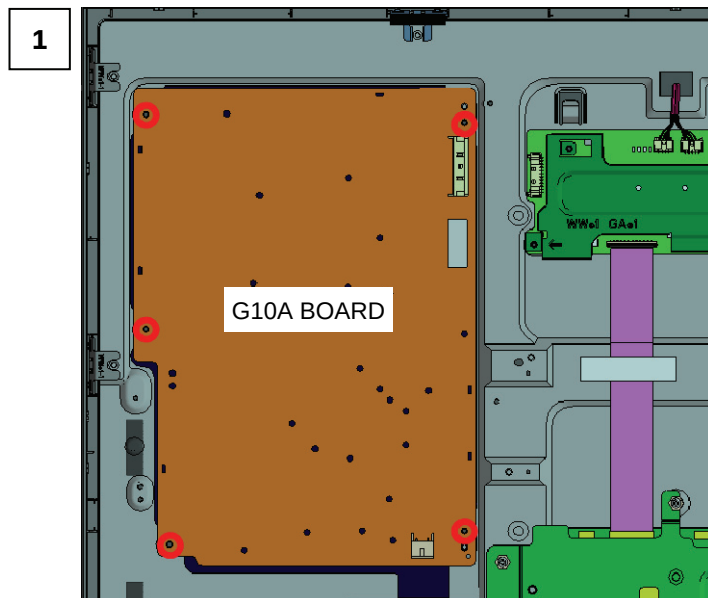


- 6 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901
- 7 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 2 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006301
- 1 Screw (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: FX0003779
- 2 Screws (JOINT, STAND) P/N: FX0002101

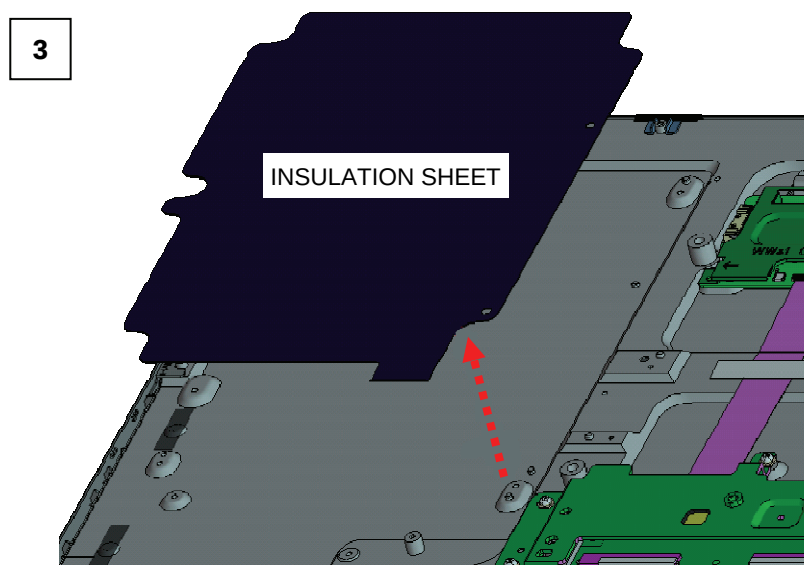
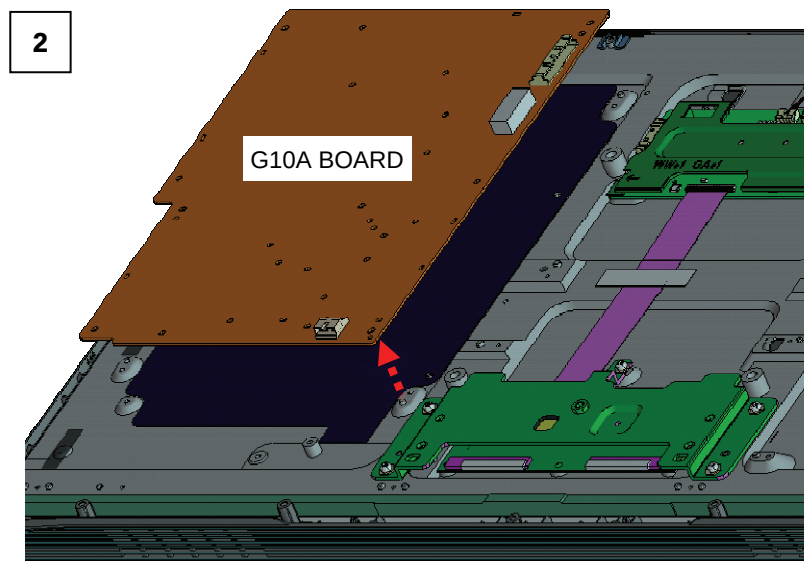


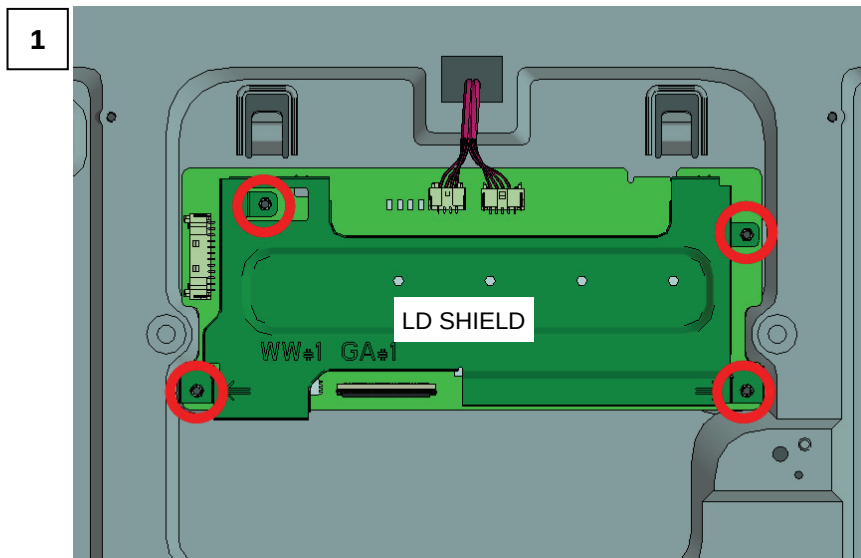
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-3. SWITCH UNIT AND SPEAKER**

1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-4. HARNESS**

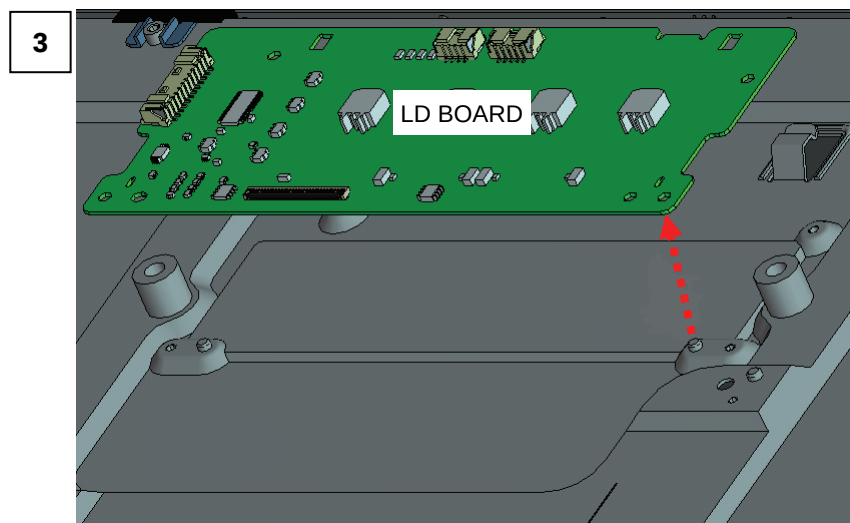
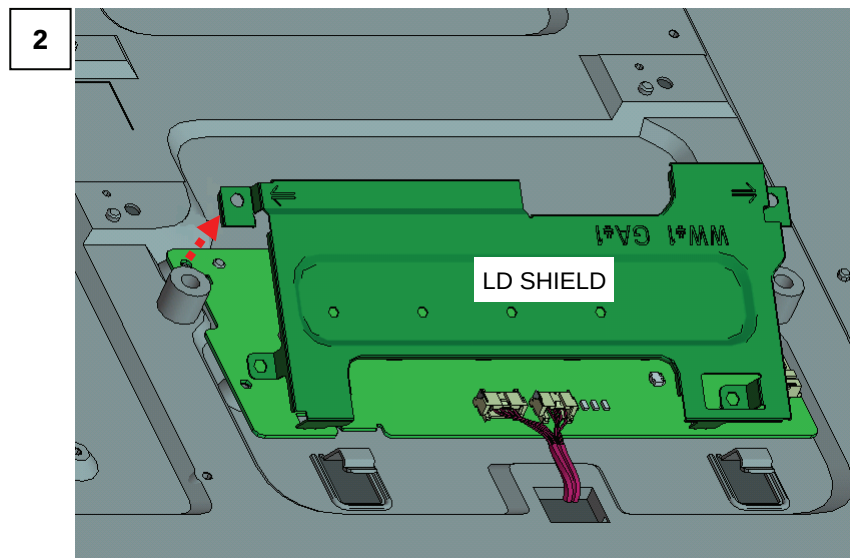
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-5. G10A BOARD**

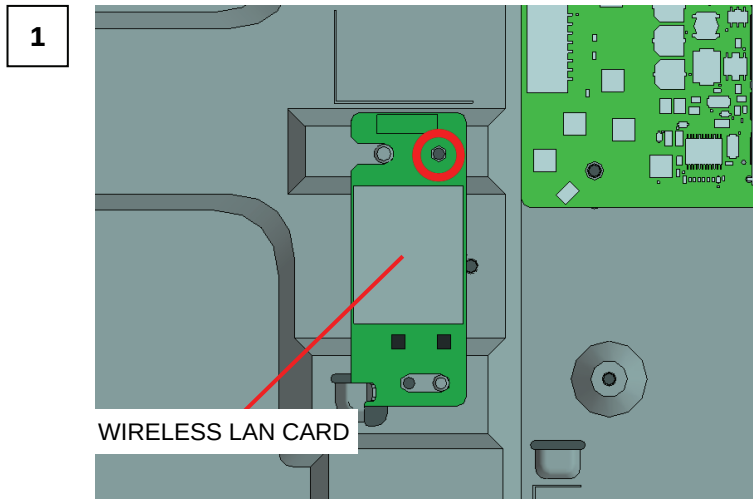
5 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



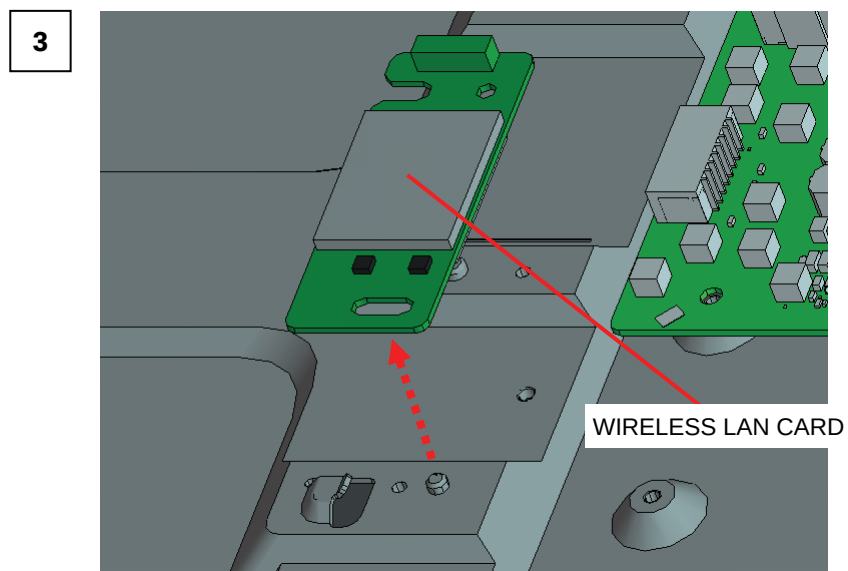
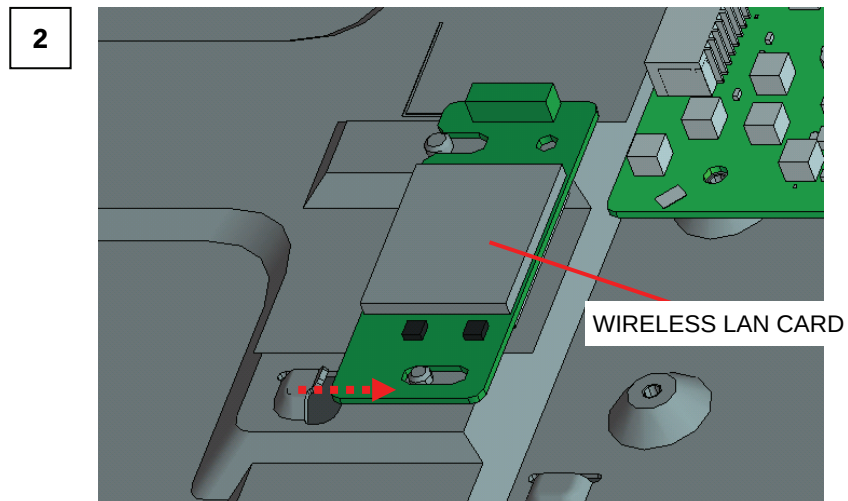
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-6. LD BOARD**

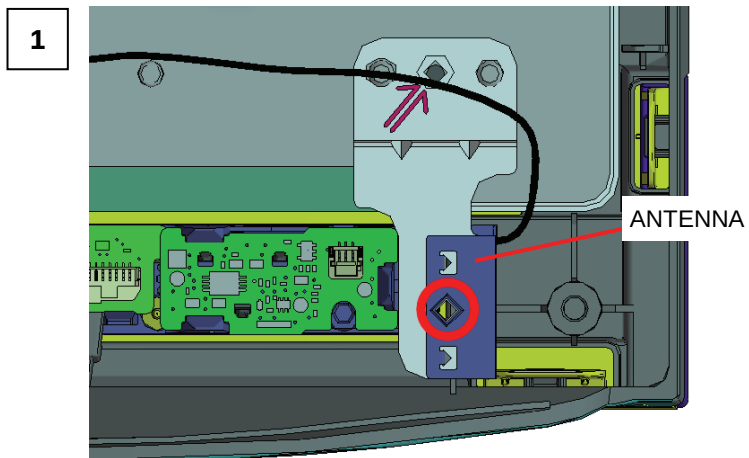
4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



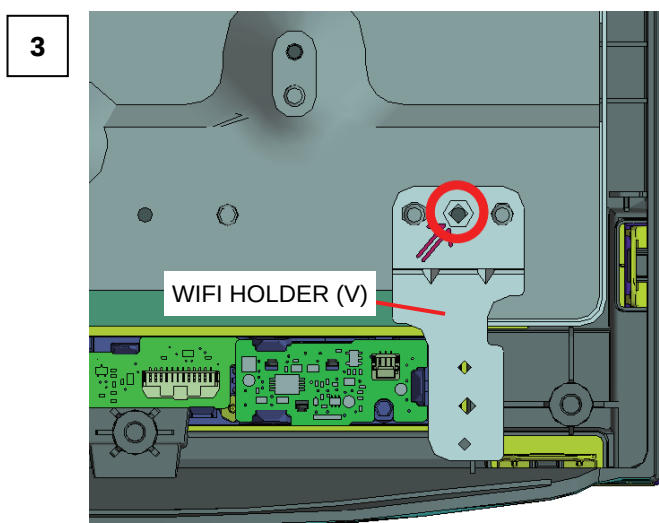
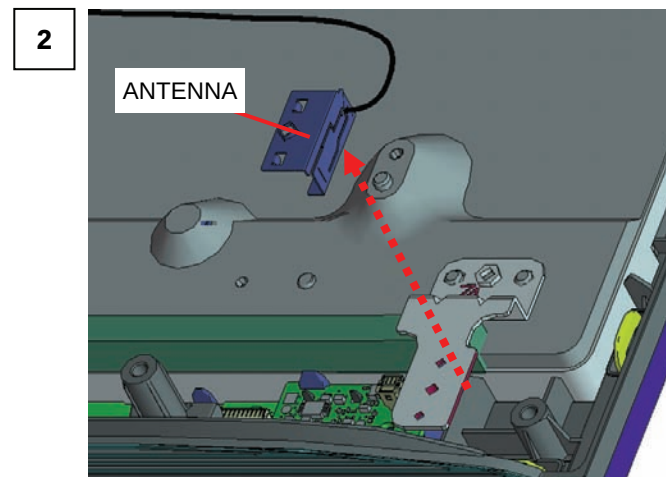
1-1. KDL-32EX721/724/726/727/728/729**1-1-7. WIRELESS LAN CARD**

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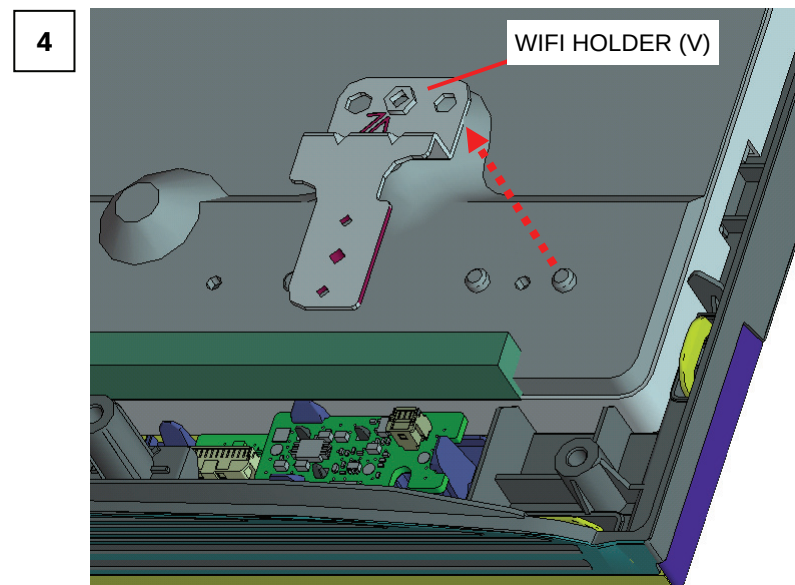


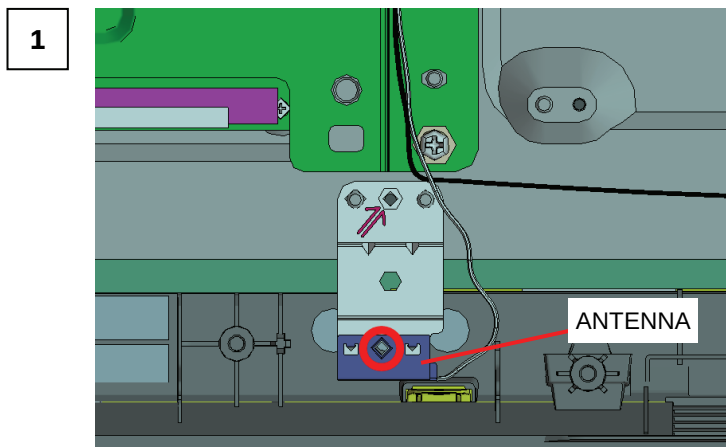
1-1. KDL-32EX721/724/726/727/728/729**1-1-8. ANTENNA AND WIFI HOLDER (V)**

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

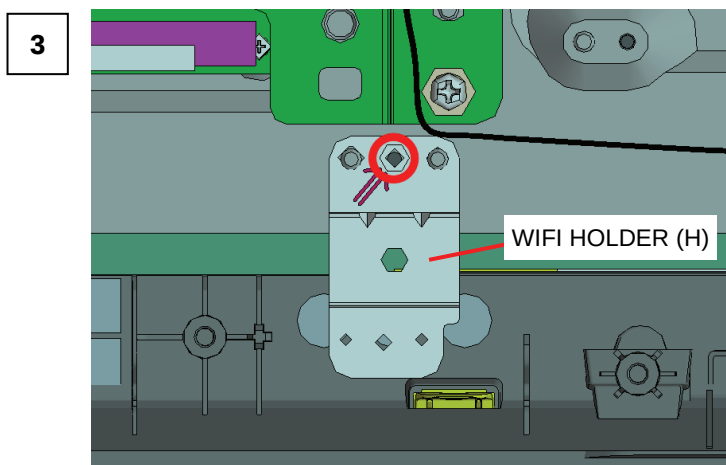


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

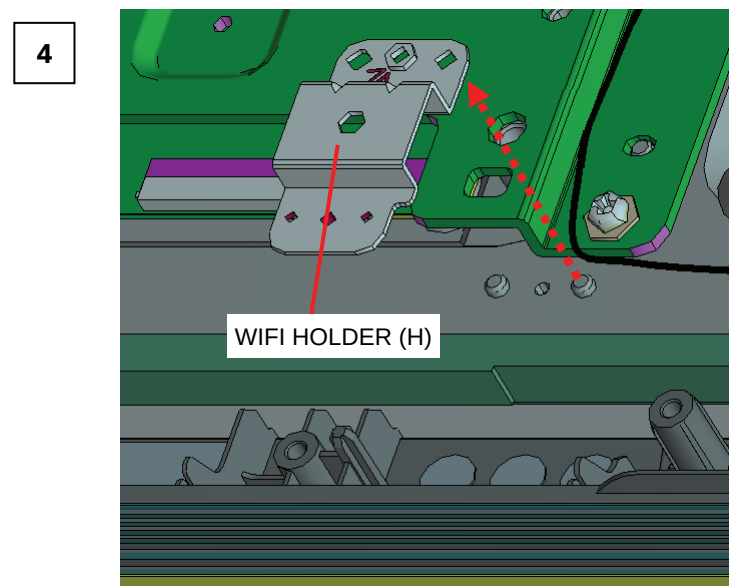
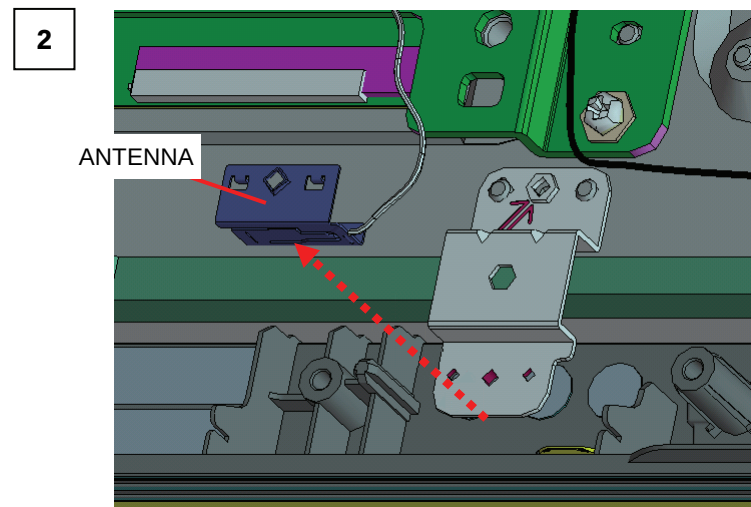


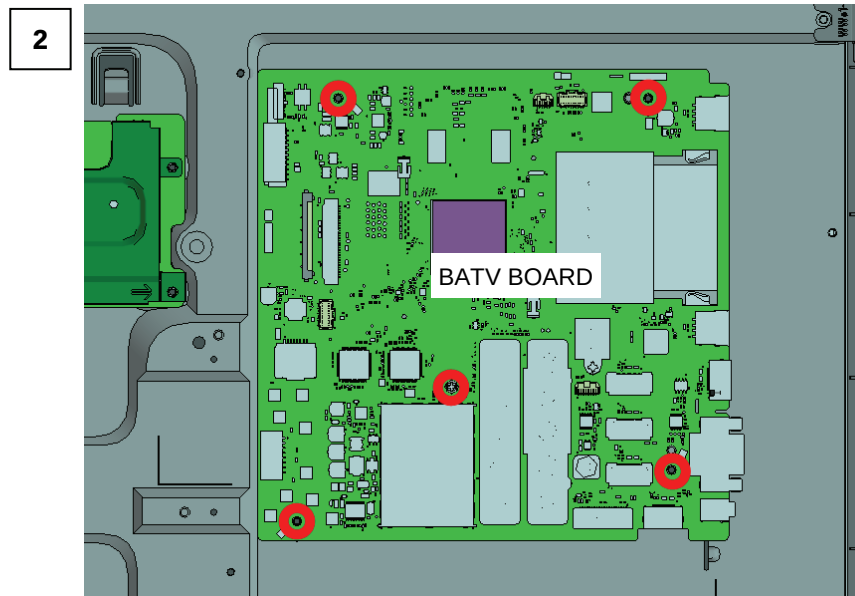
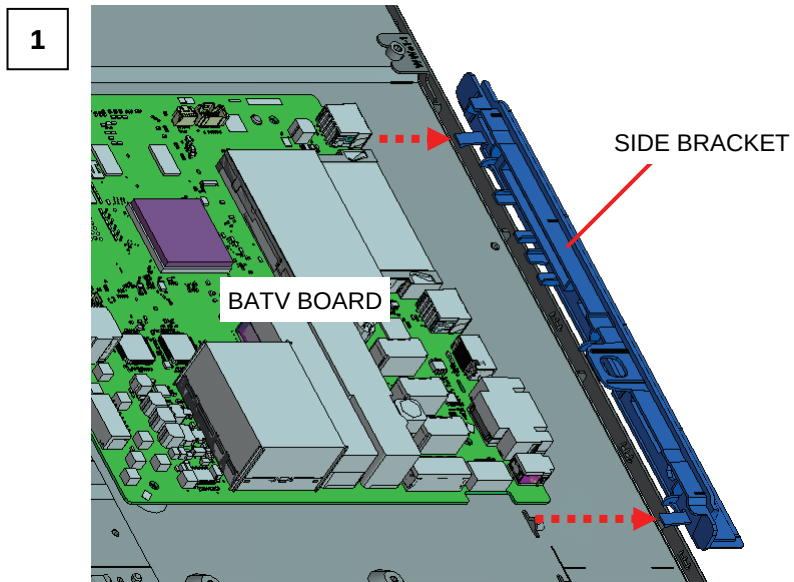
1-1. KDL-32EX721/724/726/727/728/729**1-1-9. ANTENNA AND WIFI HOLDER (H)**

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

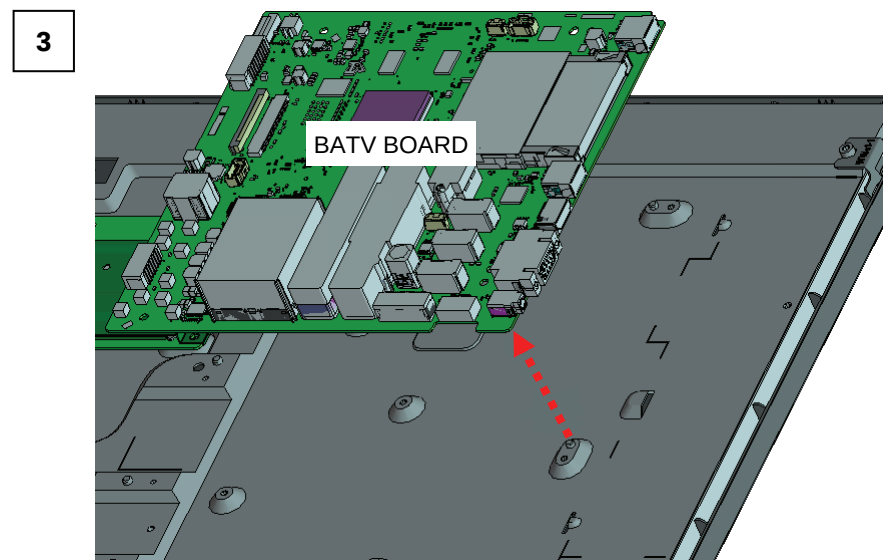


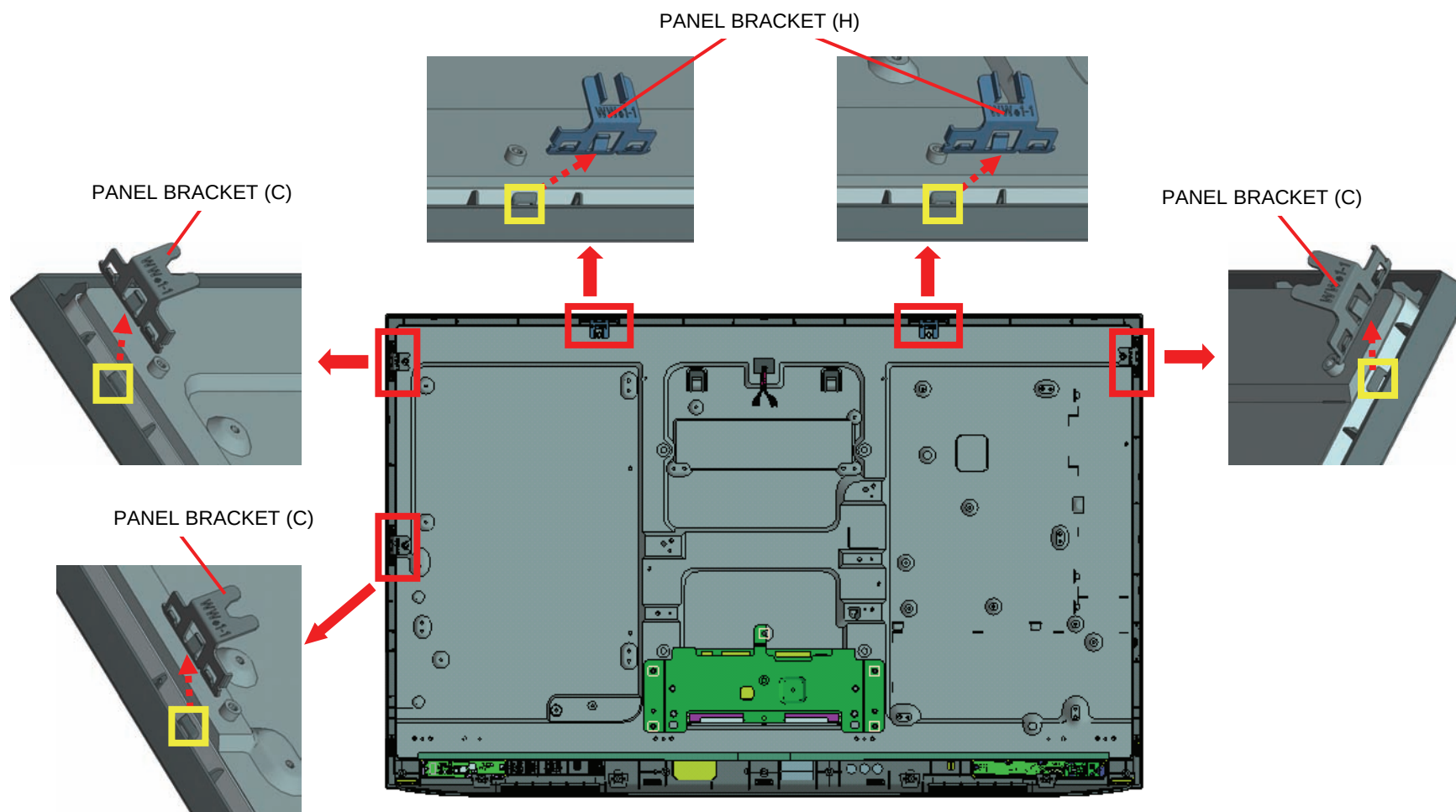
1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

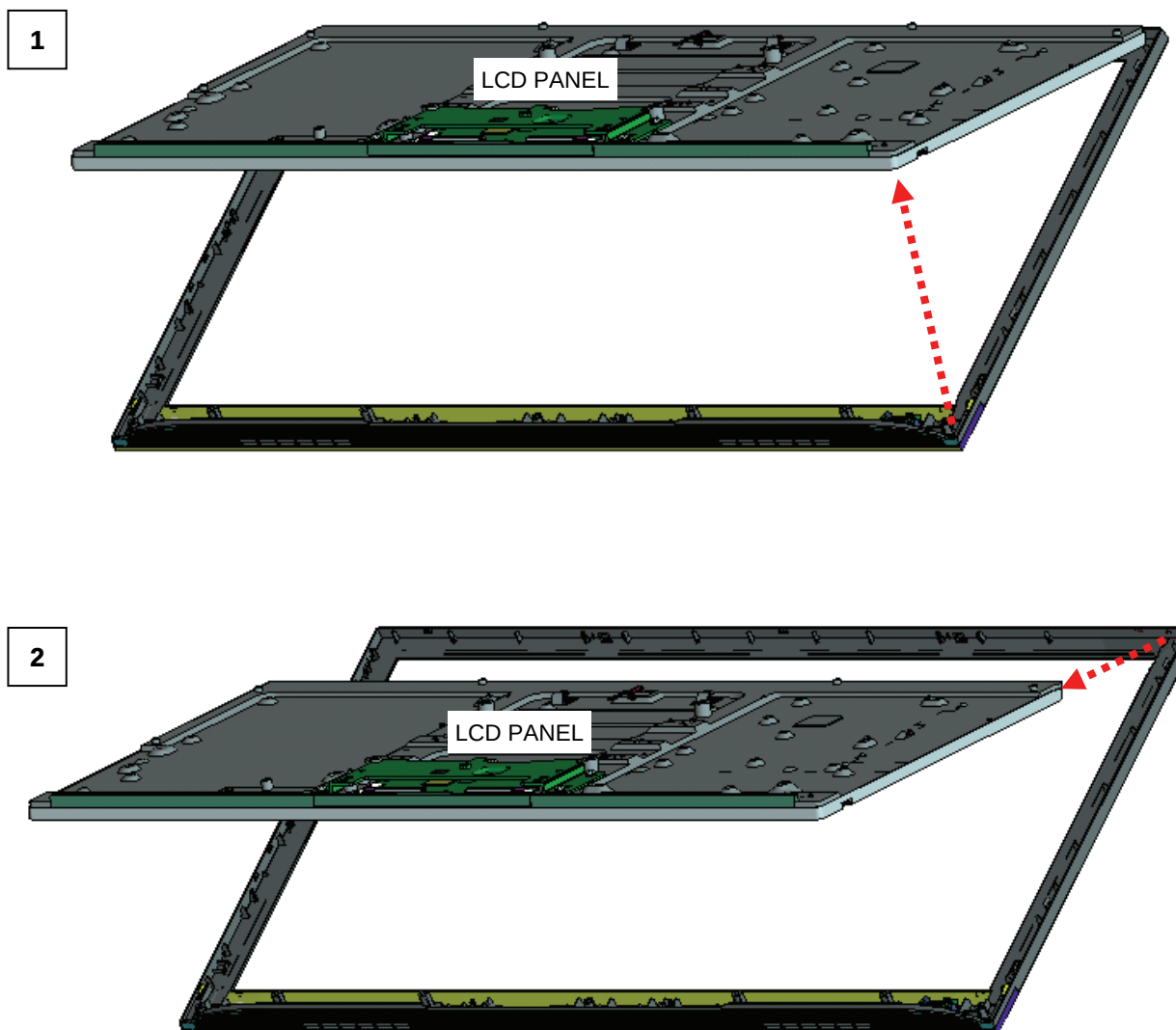


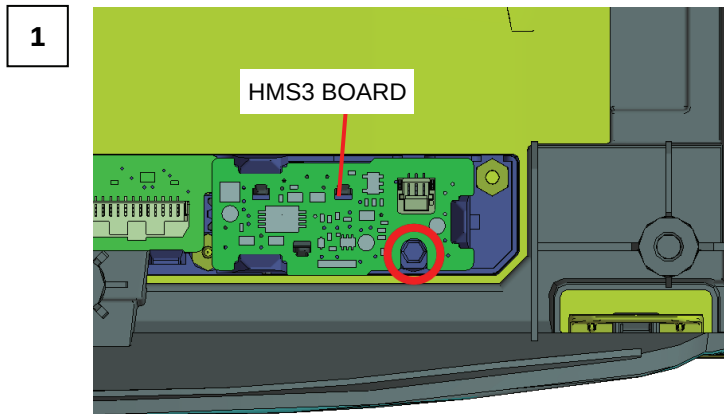
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-10. SIDE BRACKET AND BATV BOARD**

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

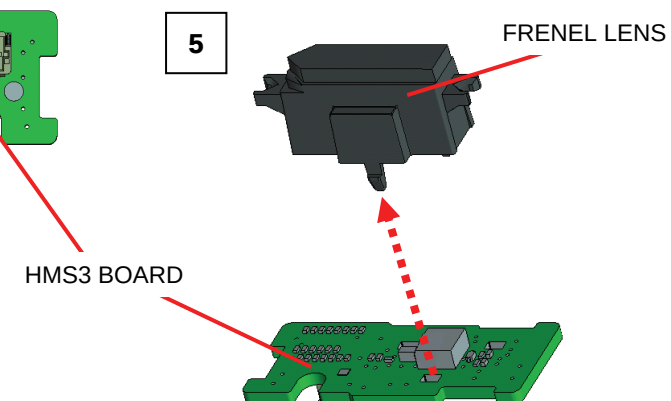
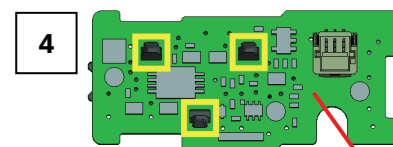
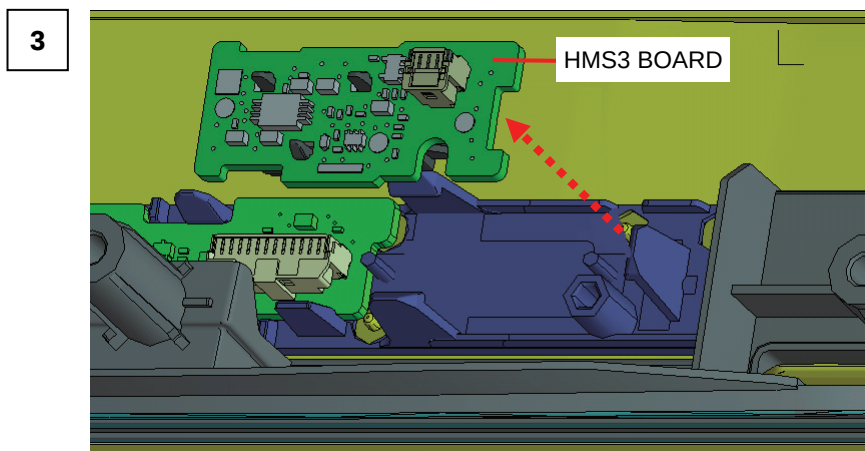
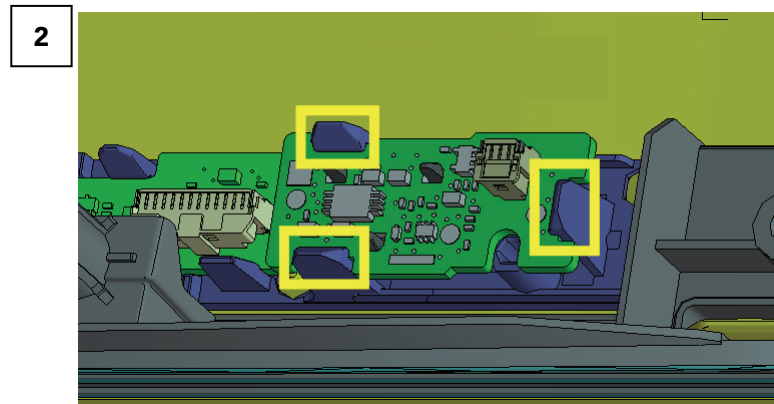


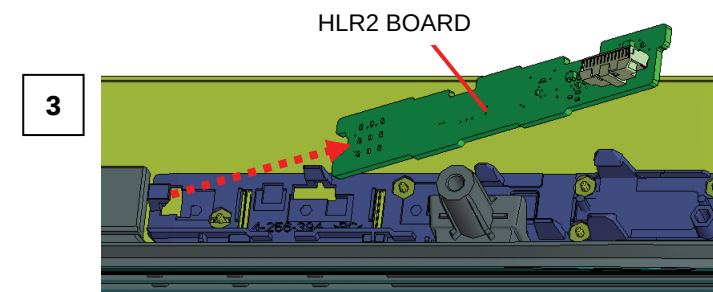
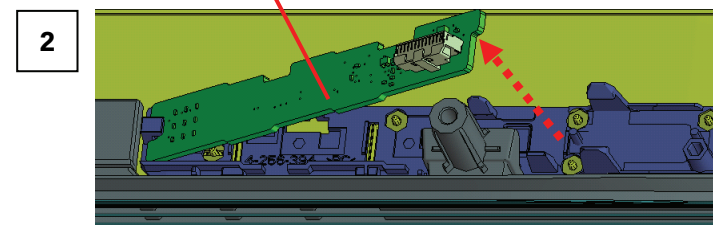
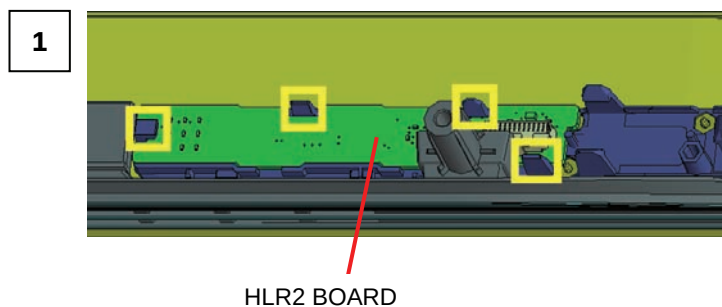
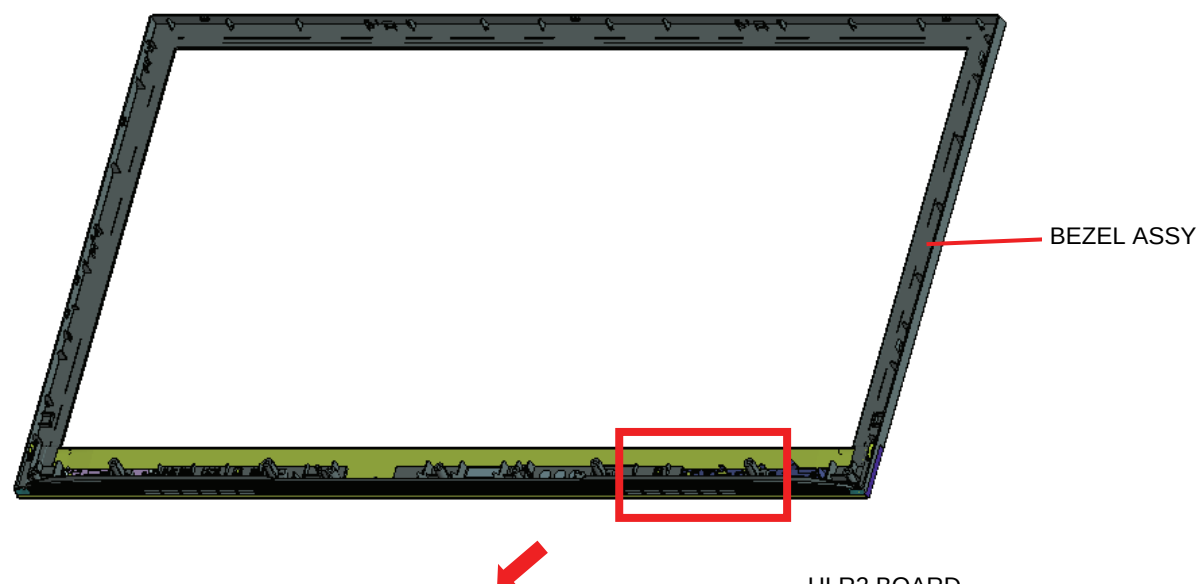
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-11. PANEL BRACKET**

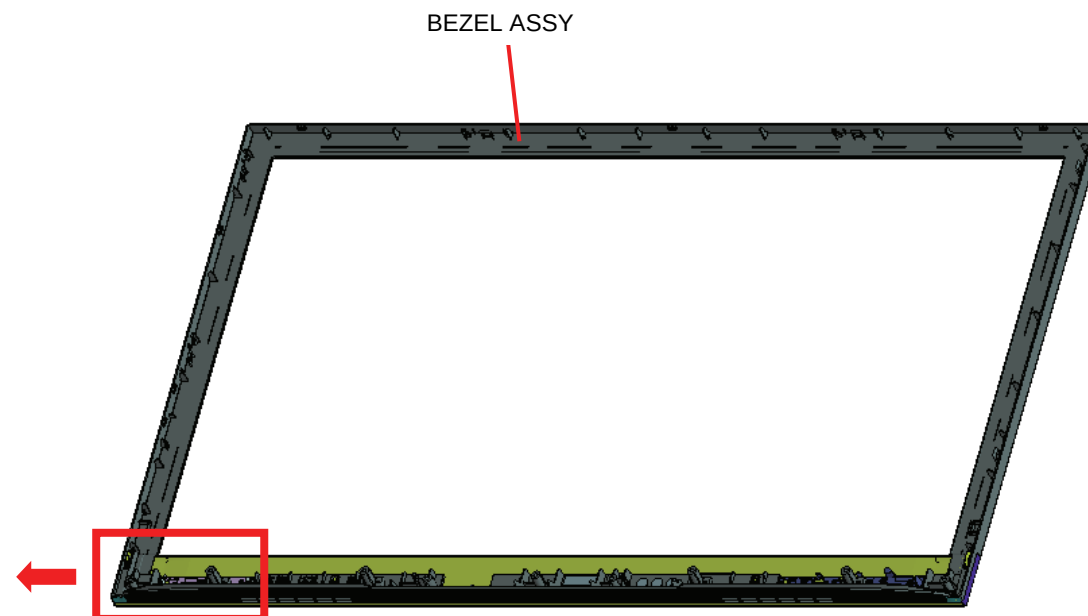
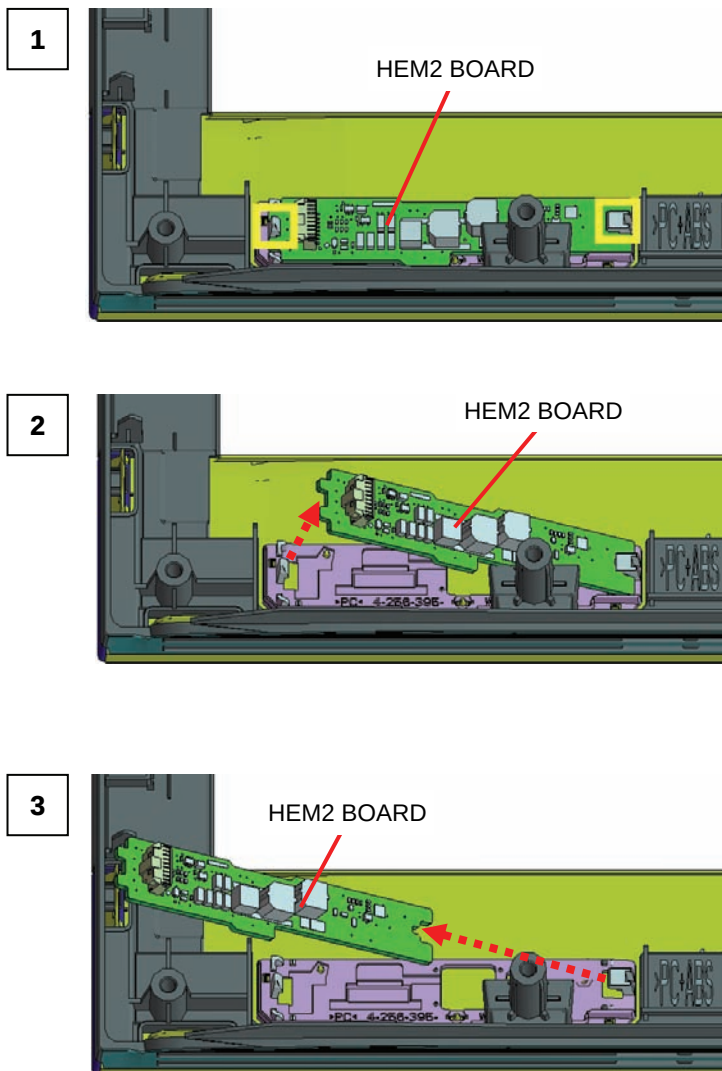
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-12. LCD PANEL**

1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-13. HMS3 BOARD AND FRENEL LENS**

1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0012601

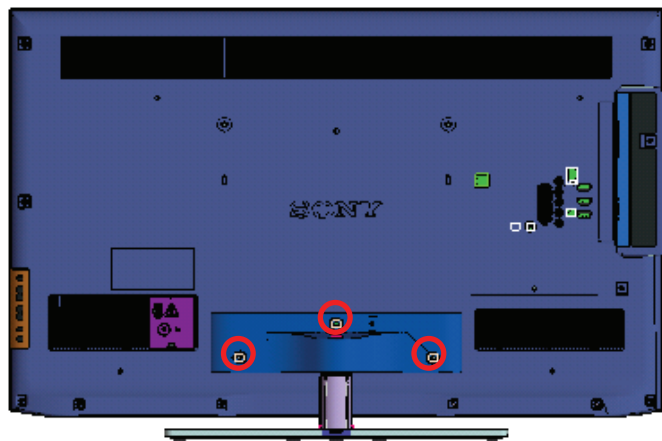


1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-14. HLR2 BOARD**

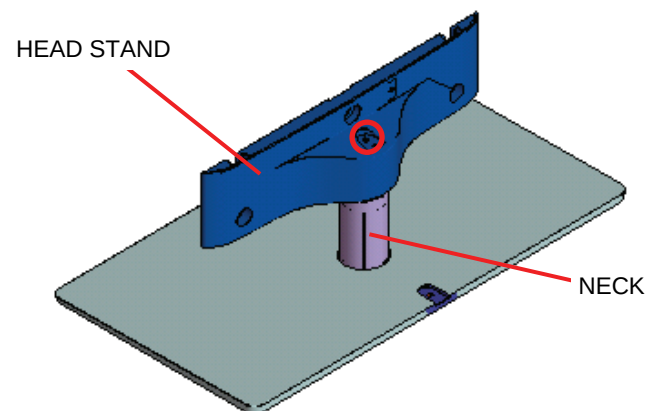
1-1. KDL-32EX720/721/723/724/725/726/727/728/729**1-1-15. HEM2 BOARD AND BEZEL ASSY**

1-2. KDL-37EX720/723/725

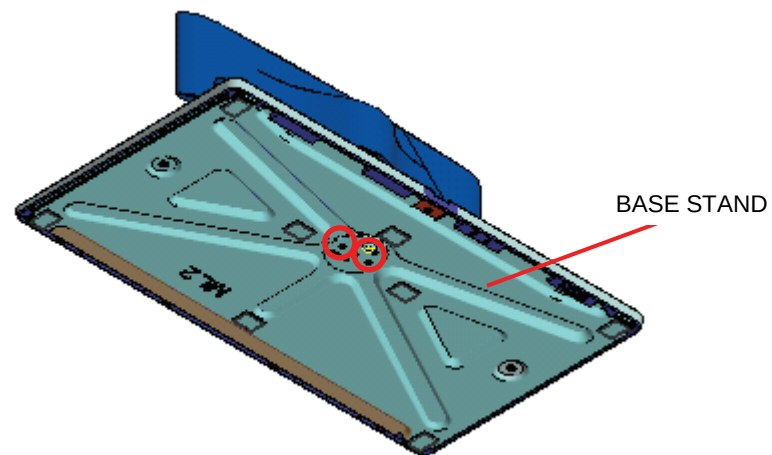
1-2-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



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



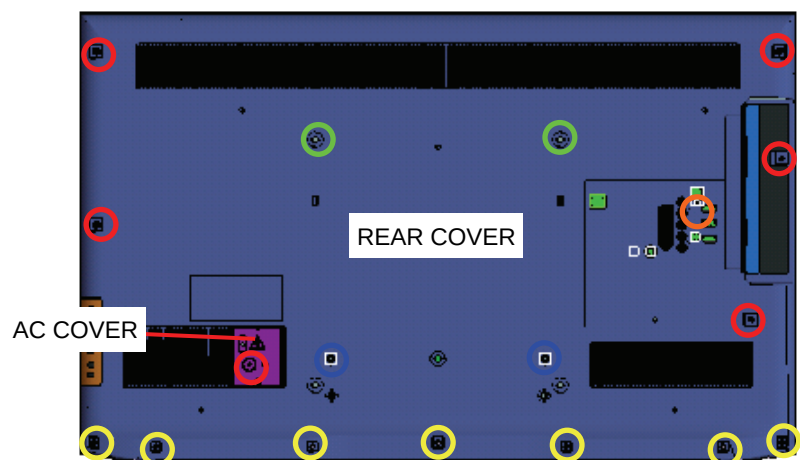
1 Screw (USER SCREW ST) – Inside bag, screw assy



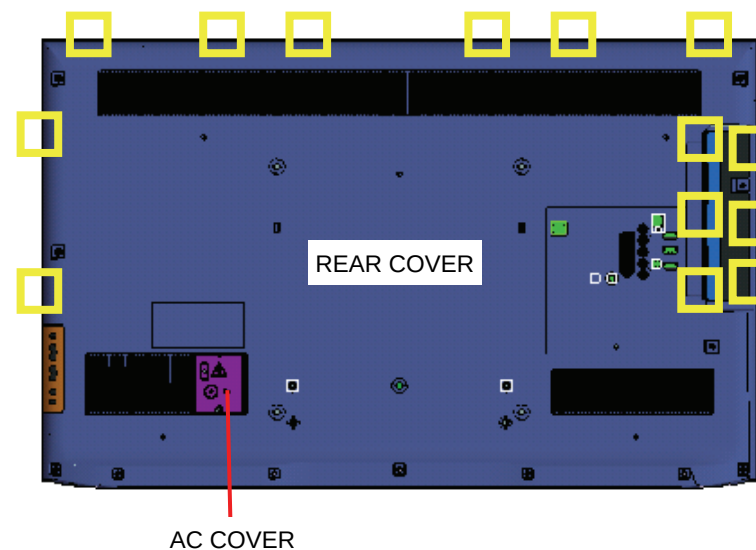
2 Screws (USER SCREW ST) – Inside bag, screw assy

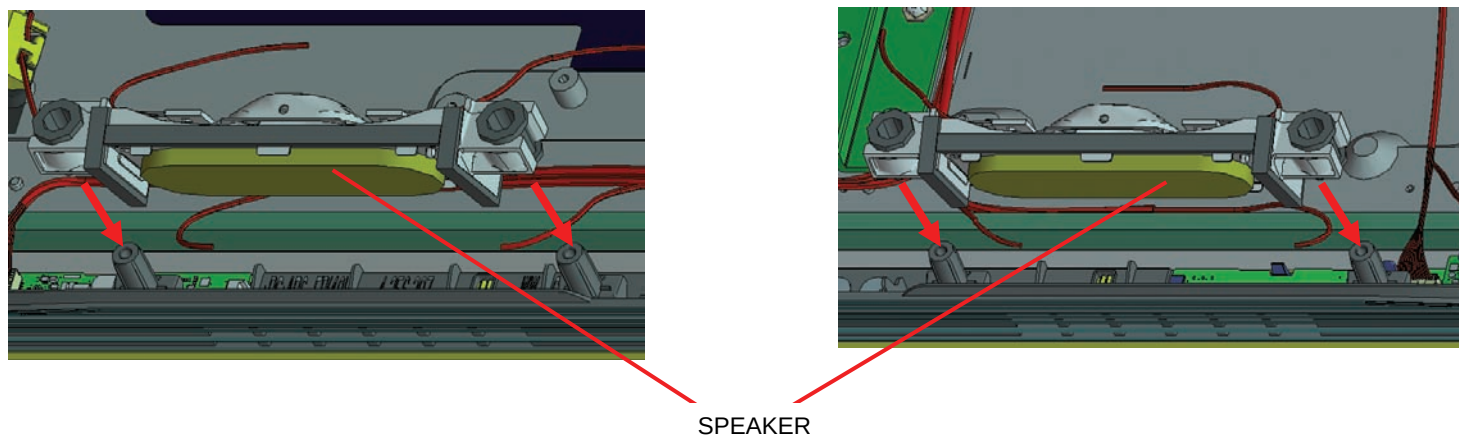
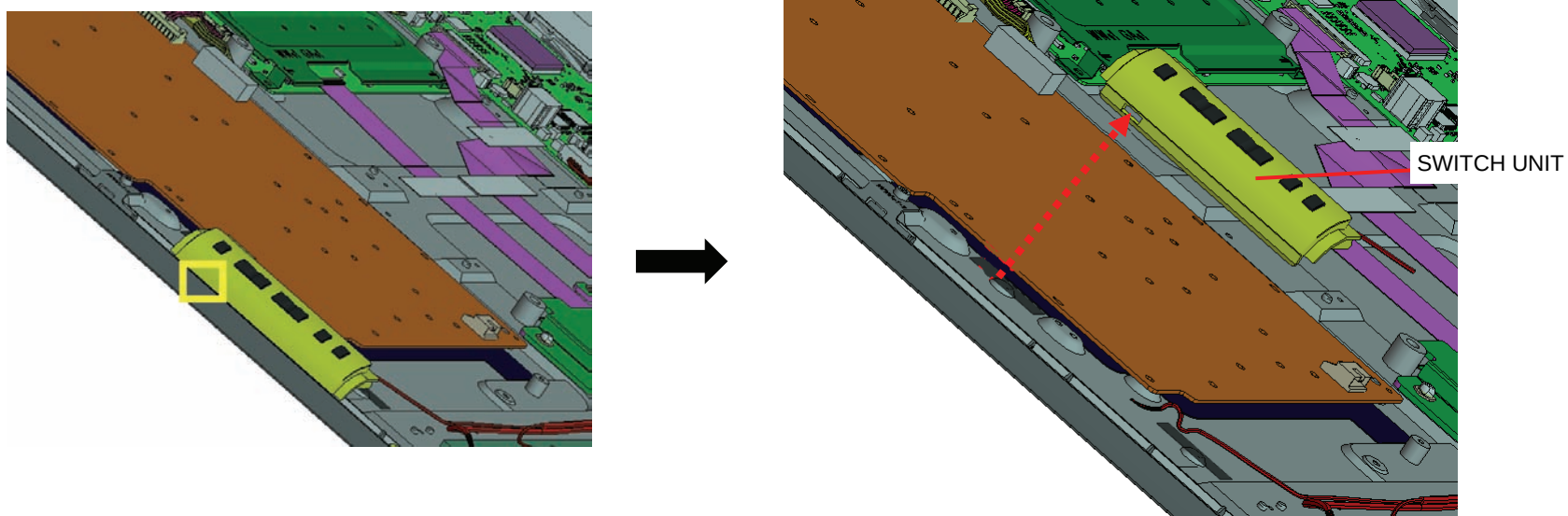
1-2. KDL-37EX720/723/725

1-2-2. REAR COVER AND AC COVER



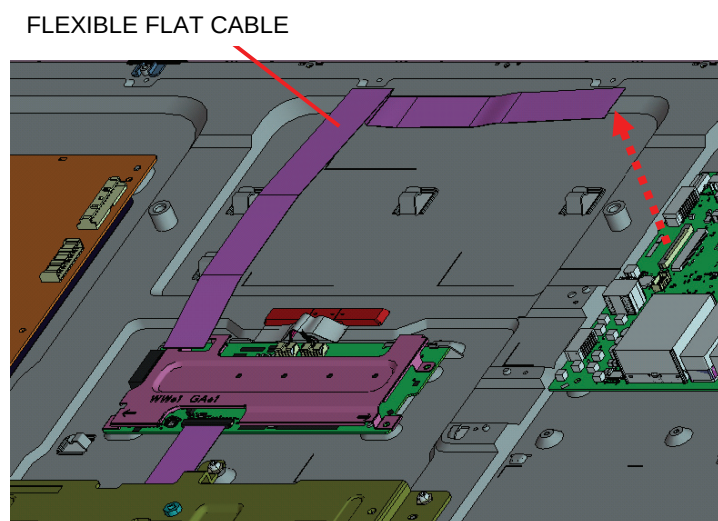
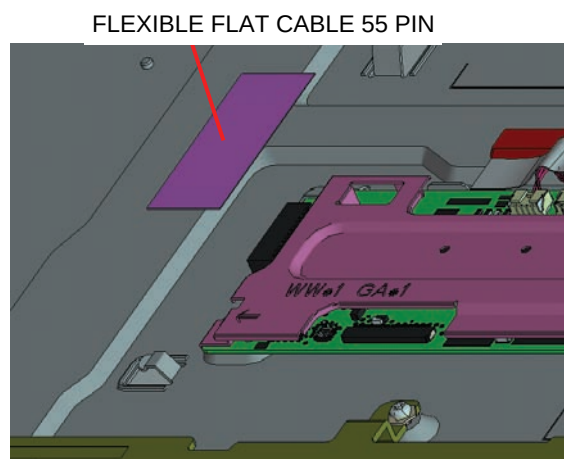
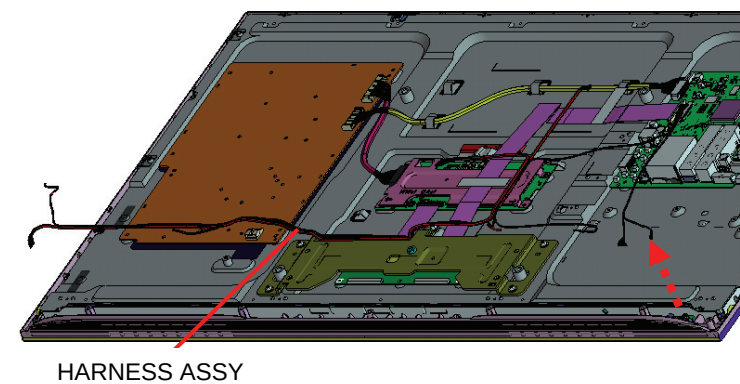
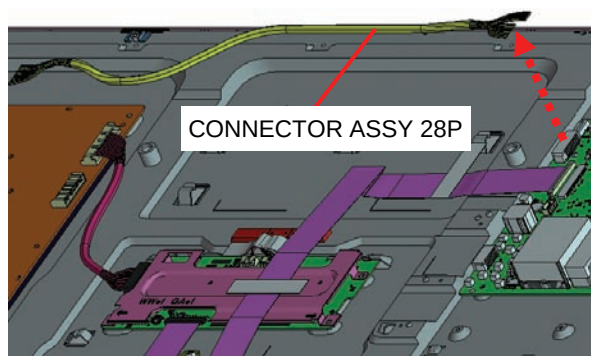
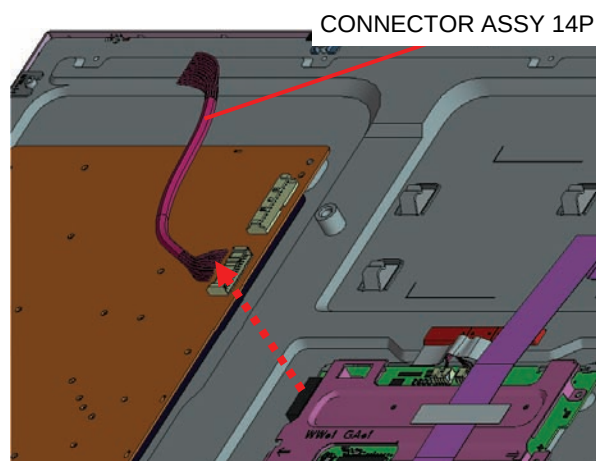
- 6 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901
- 7 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 2 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006301
- 1 Screw (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: FX0003779
- 2 Screws (JOINT, STAND) P/N: FX0002101



1-2. KDL-37EX720/723/725**1-2-3. SWITCH UNIT AND SPEAKER**

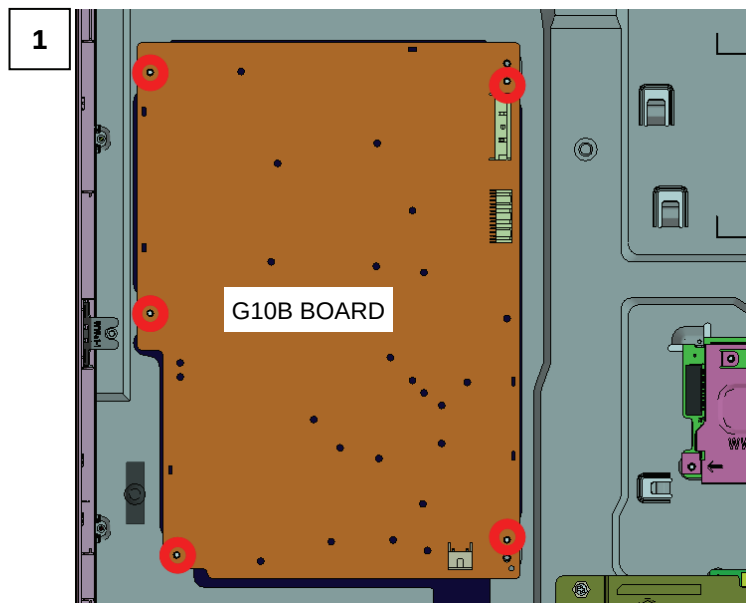
1-2. KDL-37EX720/723/725

1-2-4. HARNESS

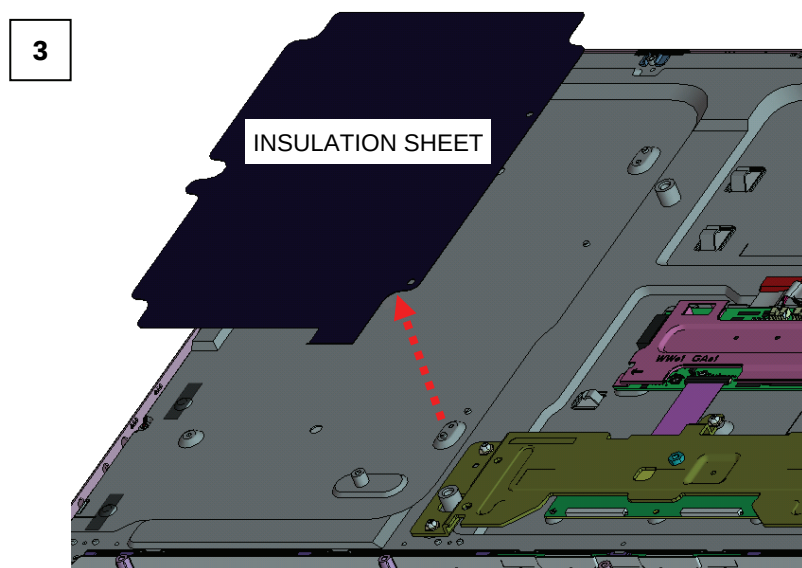
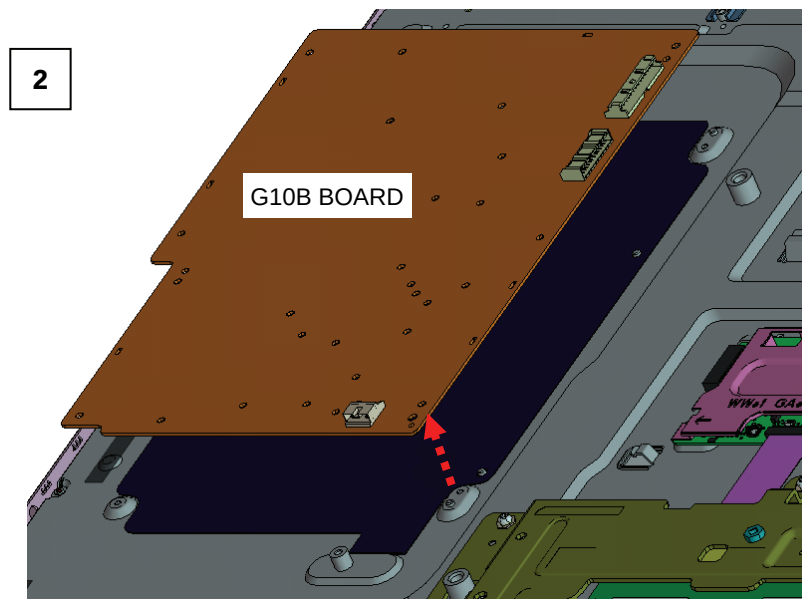


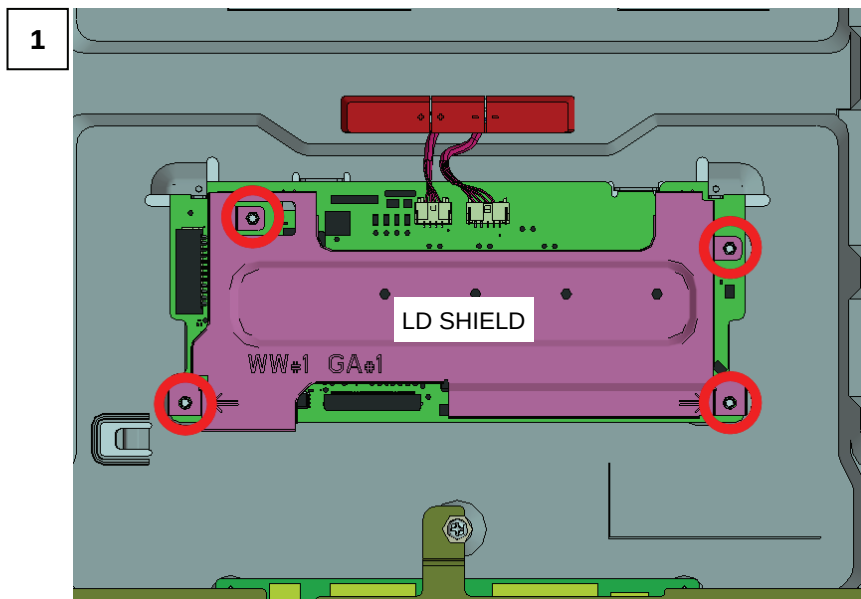
1-2. KDL-37EX720/723/725

1-2-5. G10B BOARD

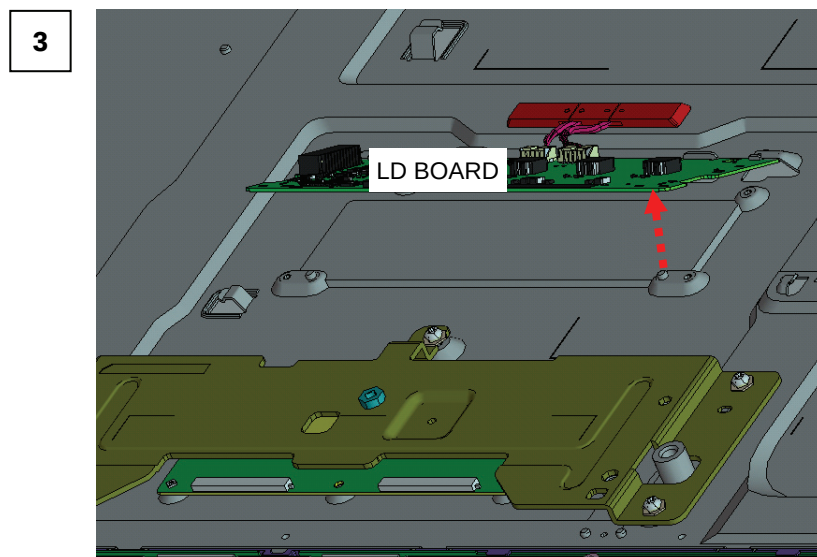
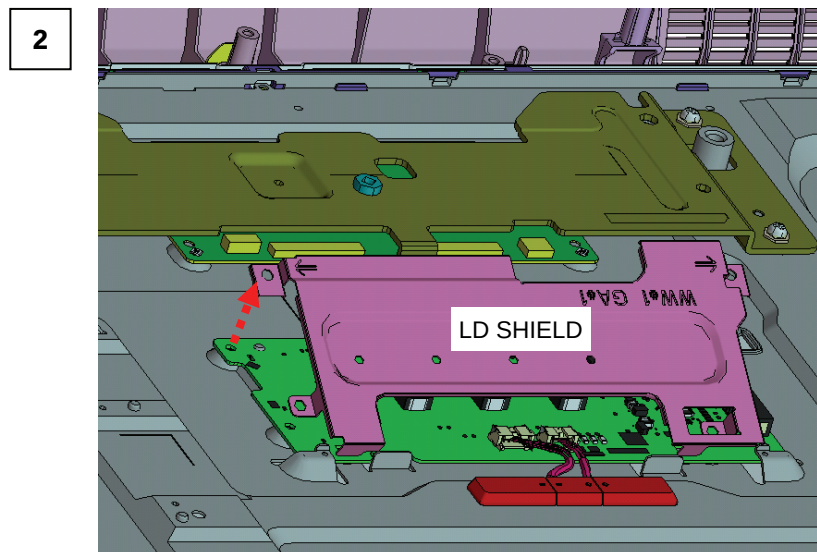


5 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



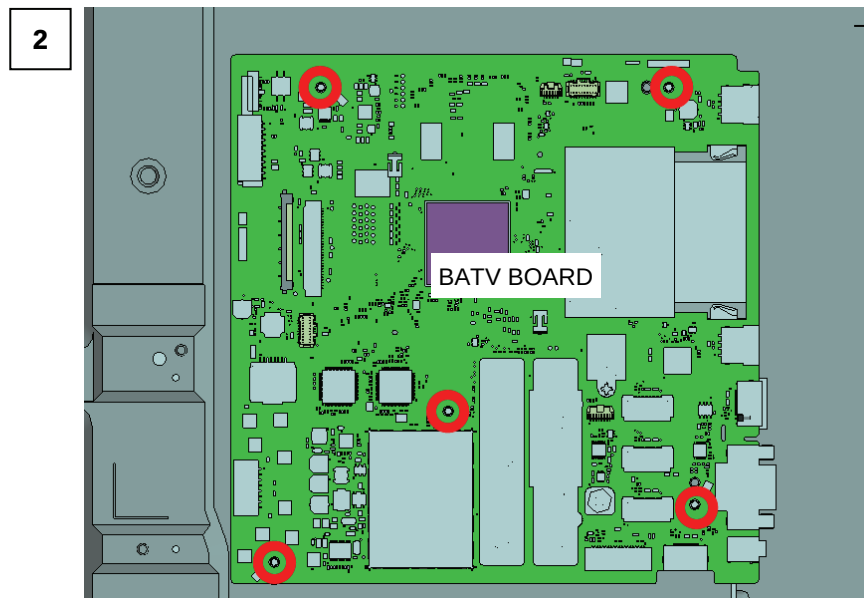
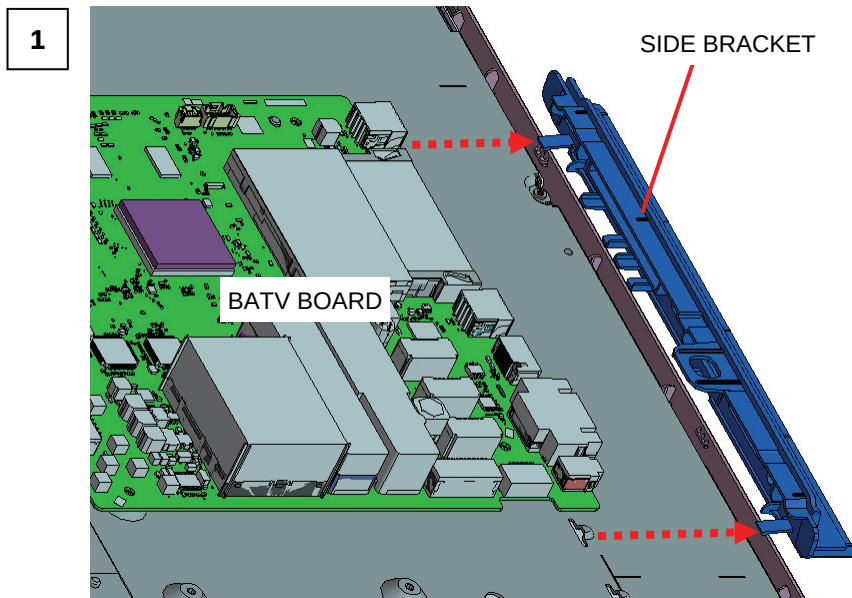
1-2. KDL-37EX720/723/725**1-2-6. LD BOARD**

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

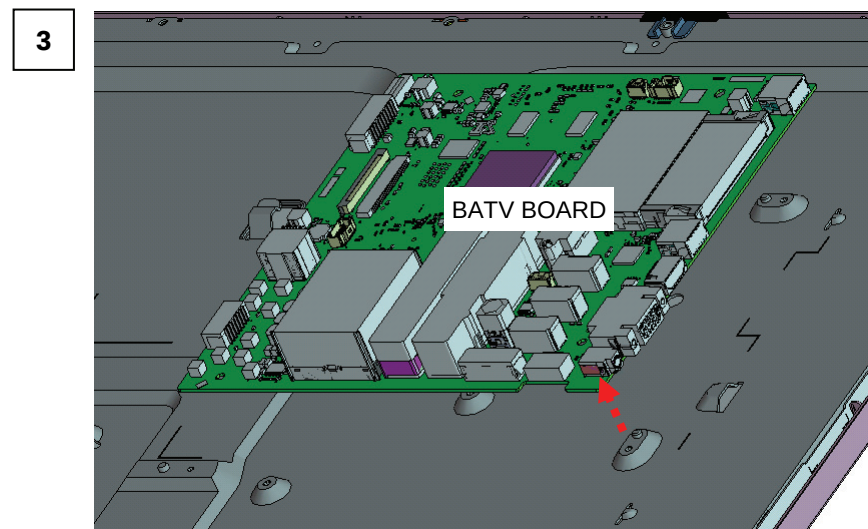


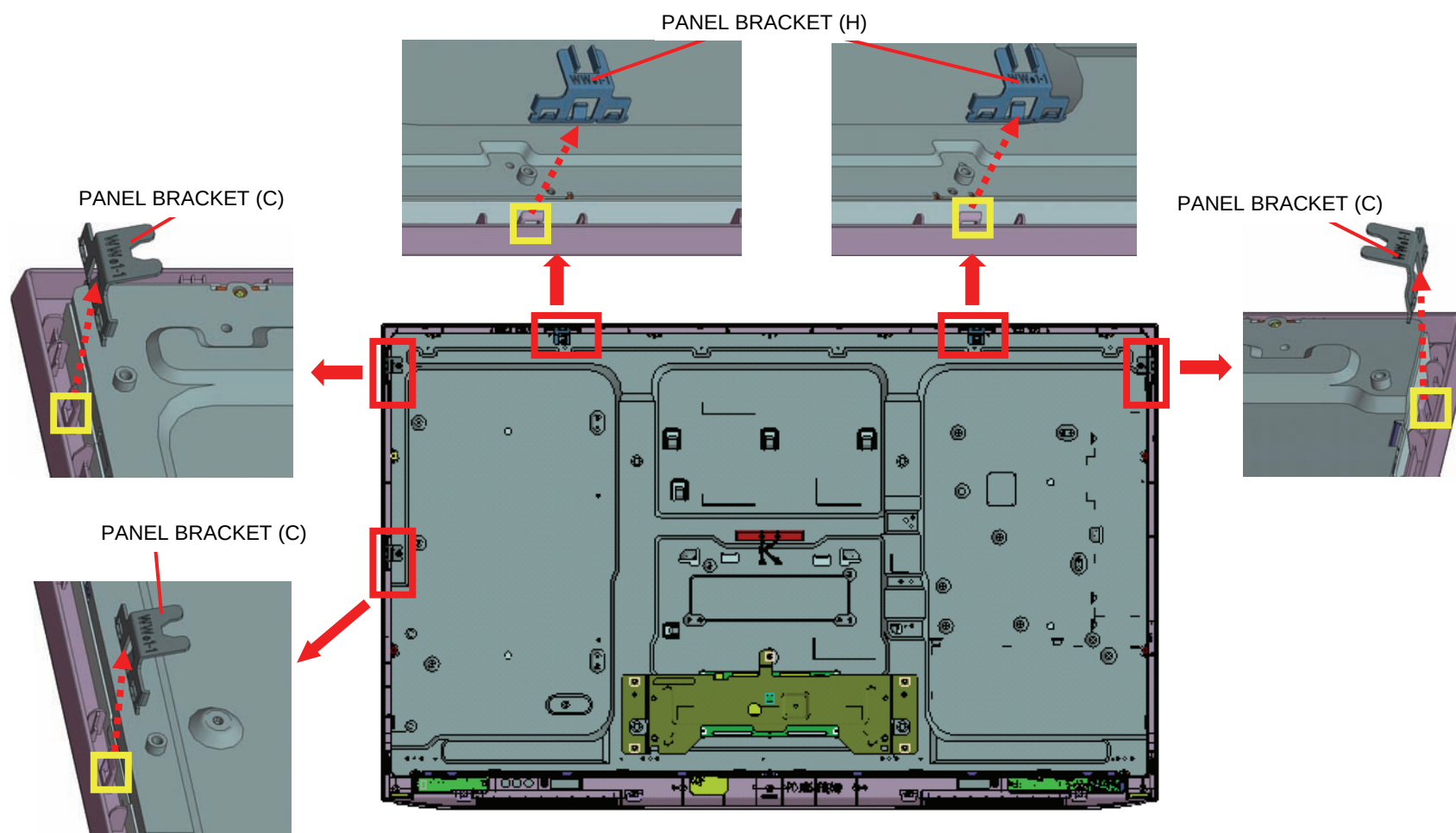
1-2. KDL-37EX720/723/725

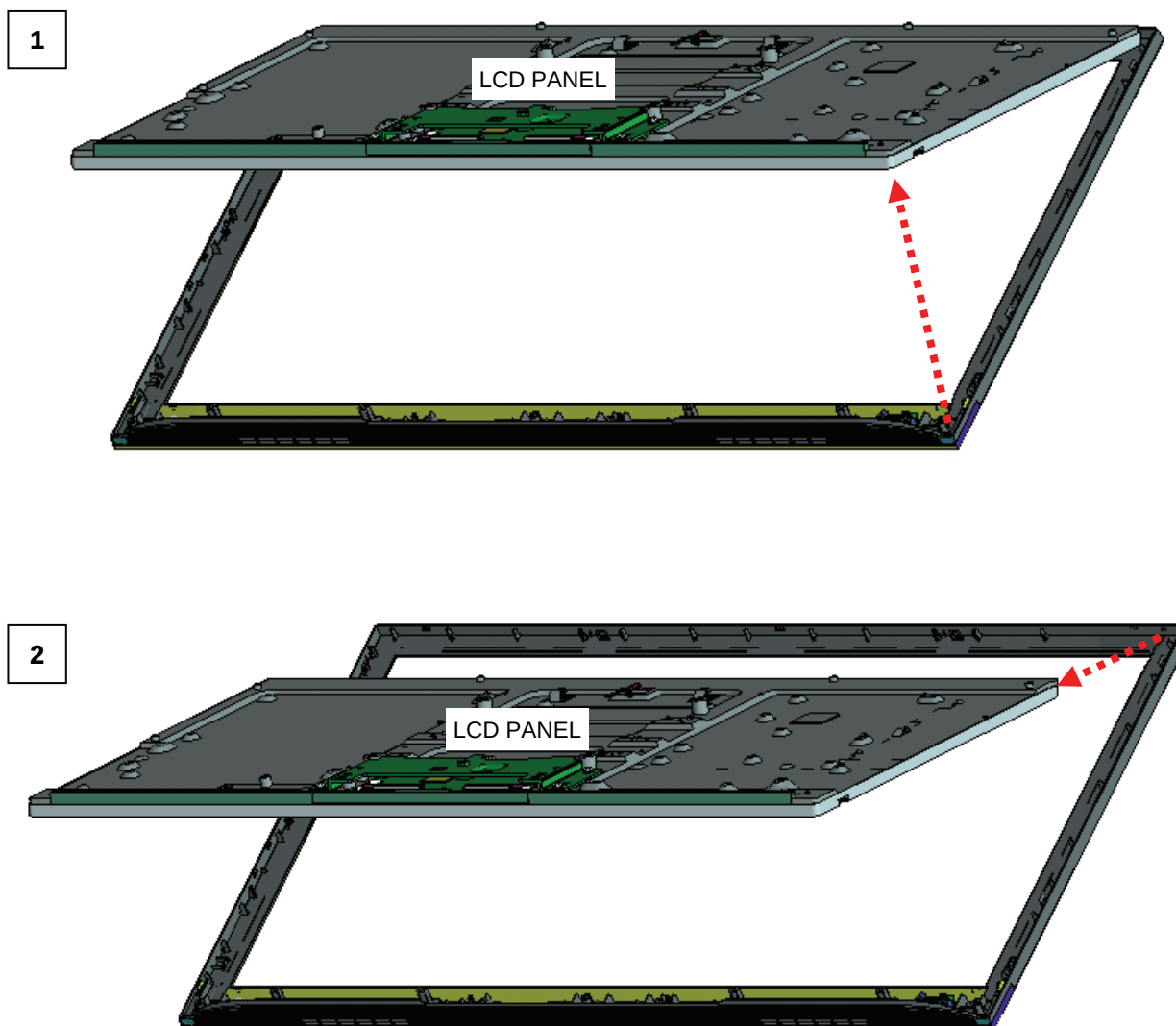
1-2-7. SIDE BRACKET AND BATV BOARD



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

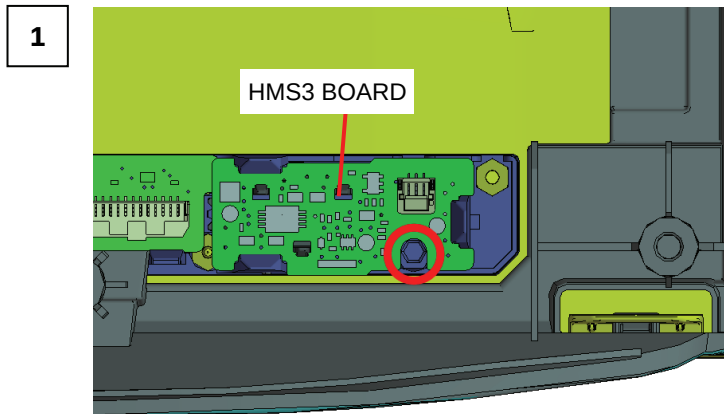


1-2. KDL-37EX720/723/725**1-2-8. PANEL BRACKET**

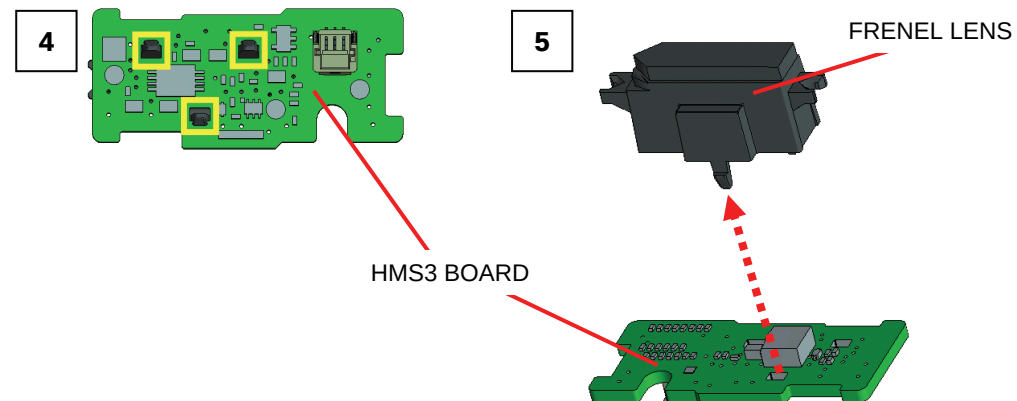
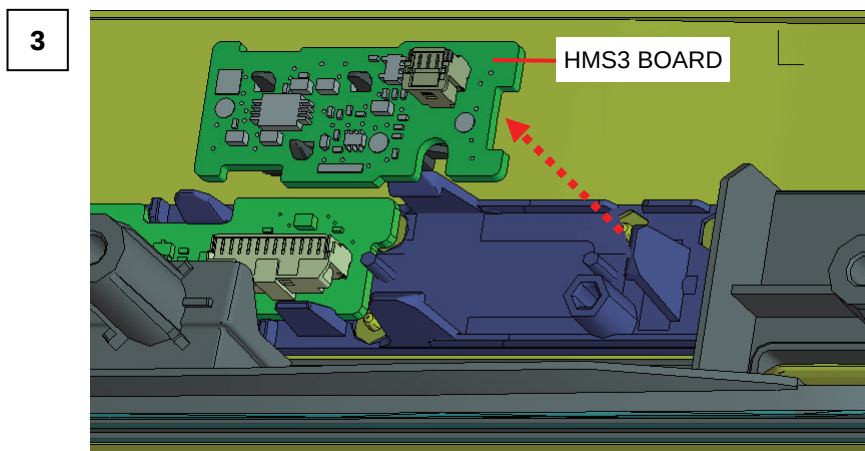
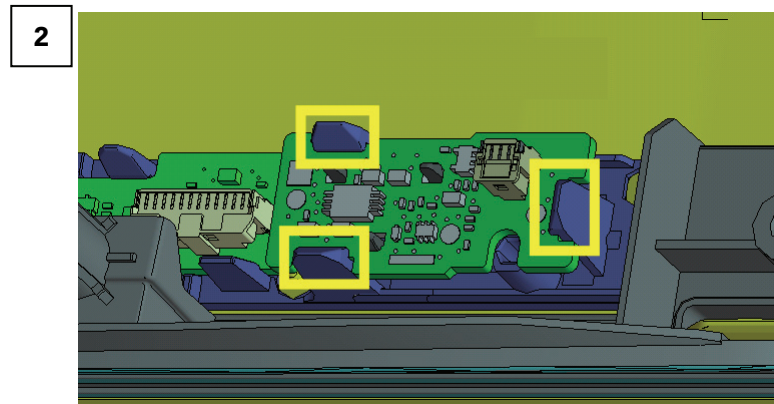
1-2. KDL-37EX720/723/725**1-2-9. LCD PANEL**

1-2. KDL-37EX720/723/725

1-2-10. HMS3 BOARD AND FRENEL LENS

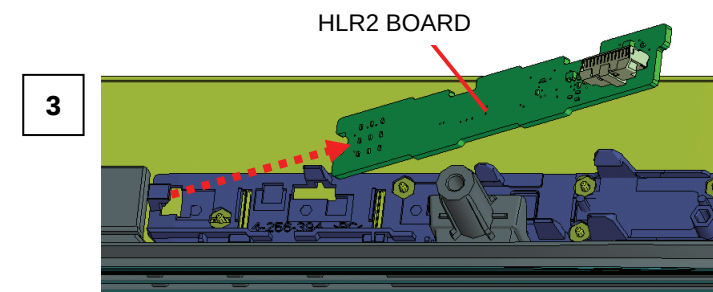
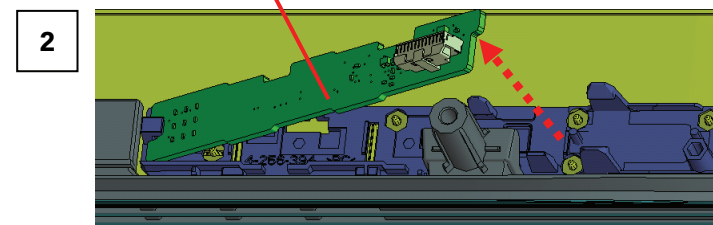
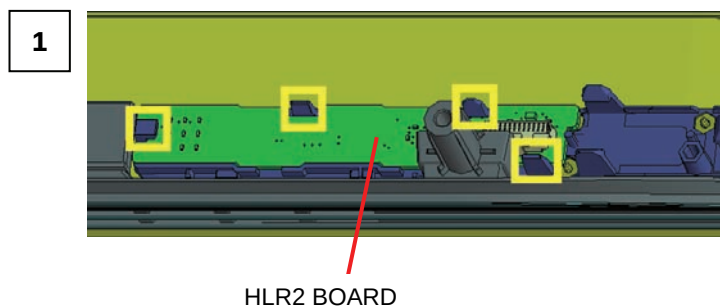
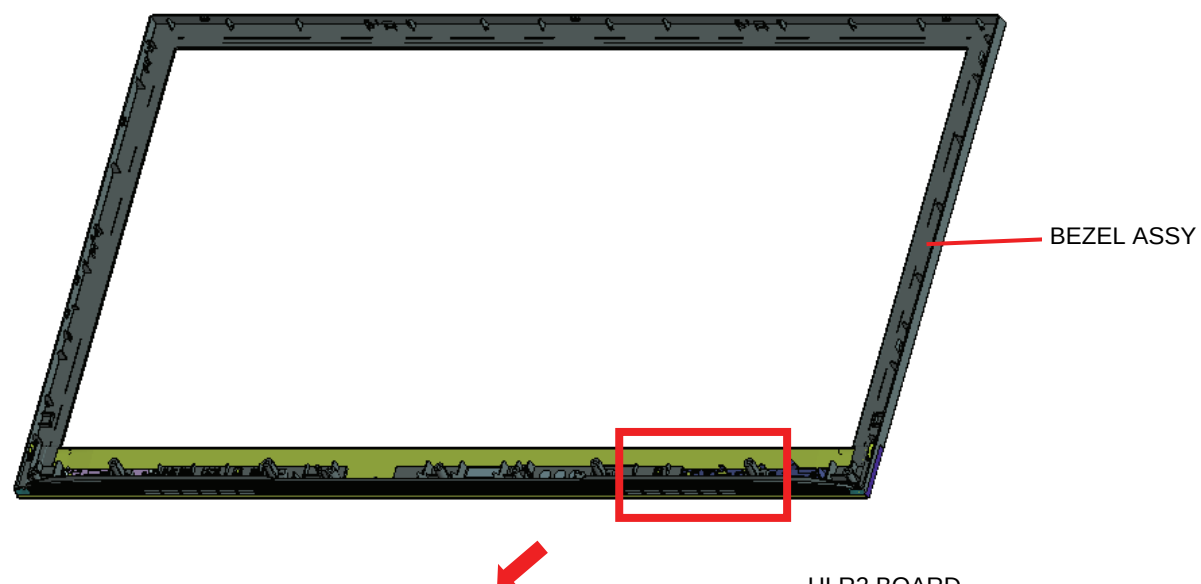


1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0003779



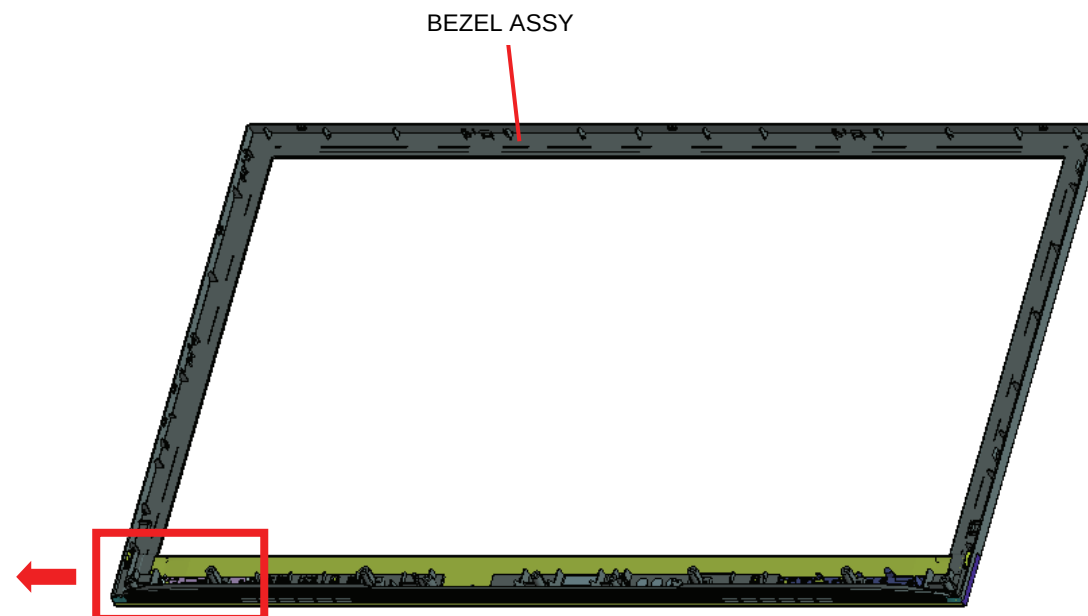
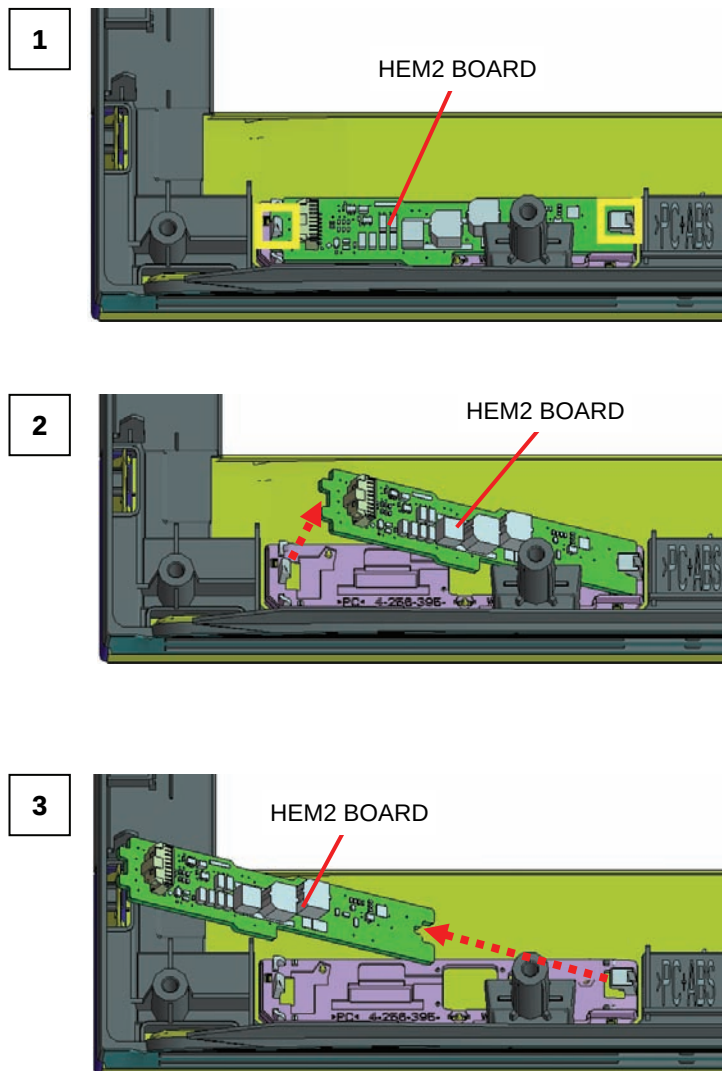
1-2. KDL-37EX720/723/725

1-2-11. HLR2 BOARD



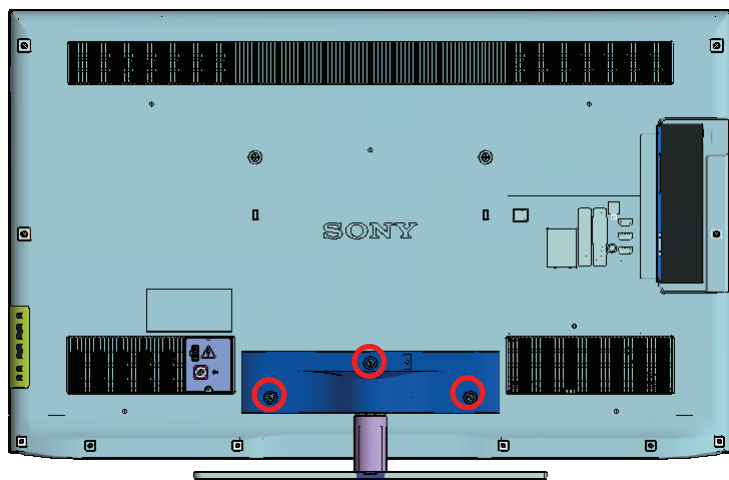
1-2. KDL-37EX720/723/725

1-2-12. HEM2 BOARD AND BEZEL ASSY

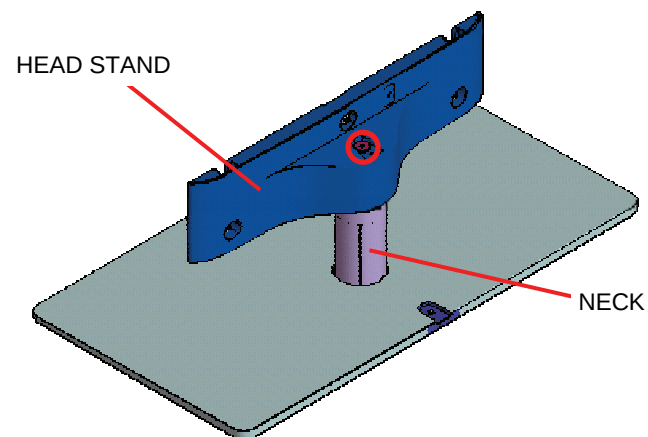


1-3. KDL-40EX720/721/723/724/725/726/727/728/729

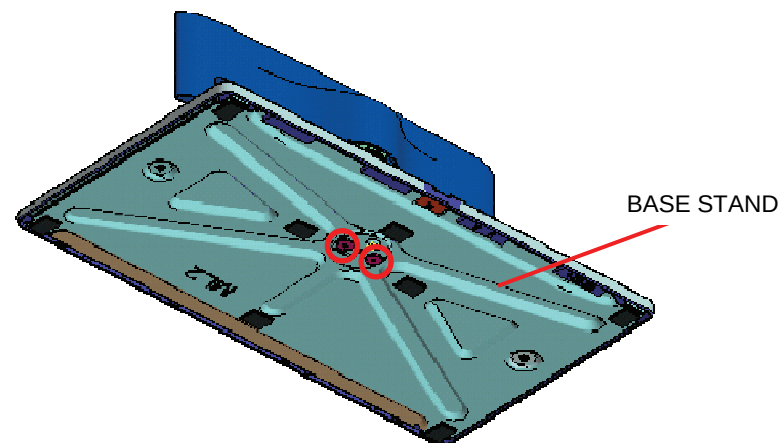
1-3-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



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



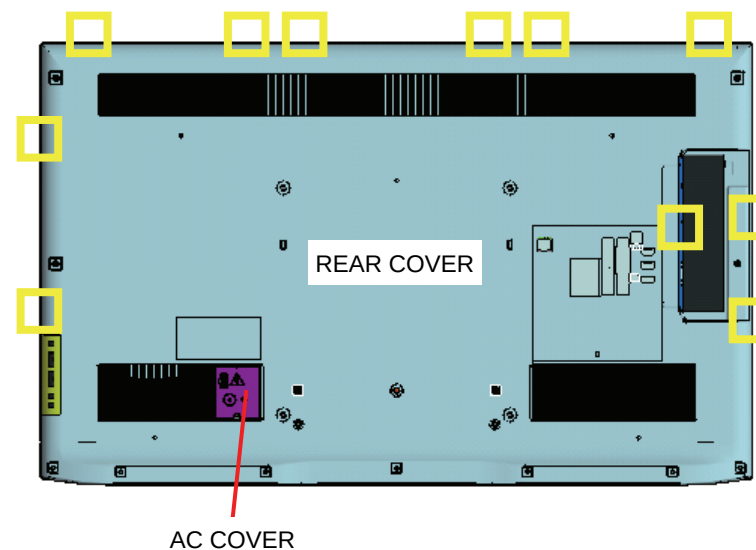
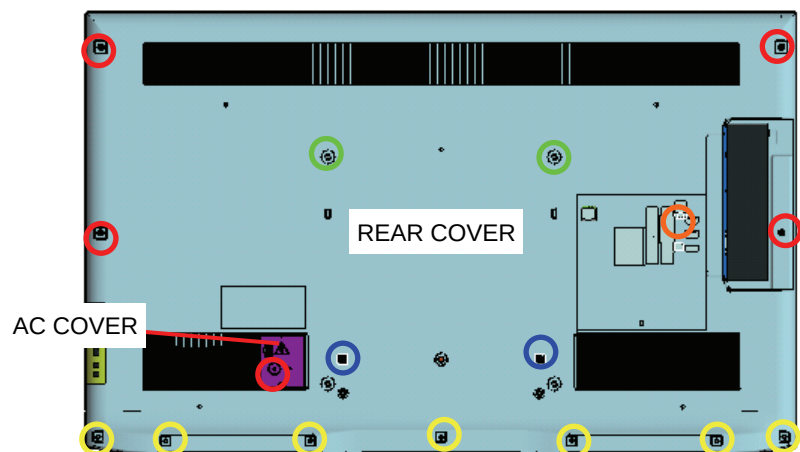
1 Screw (USER SCREW ST) – Inside bag, screw assy



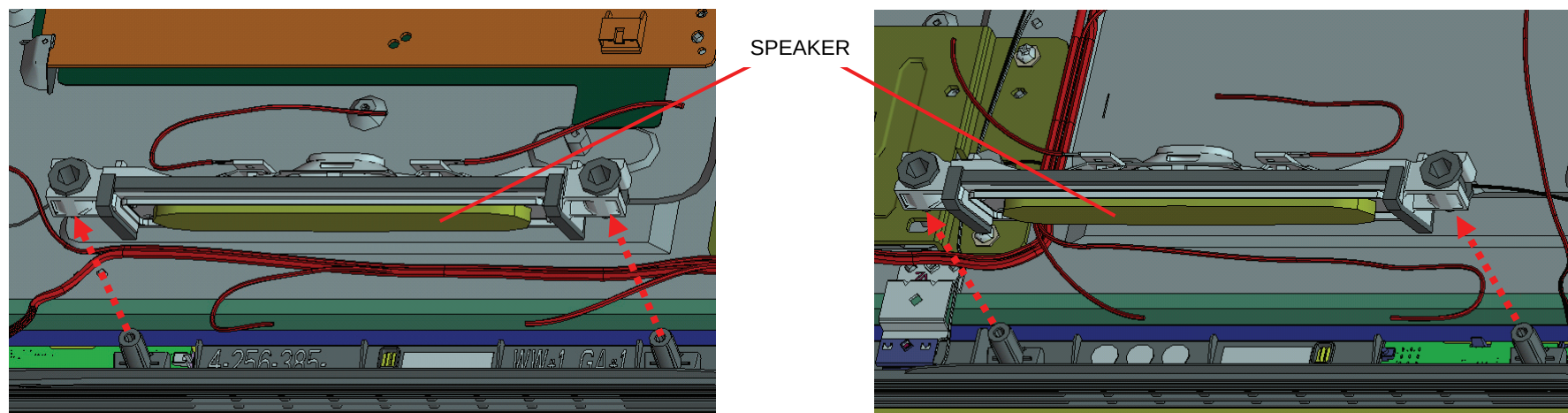
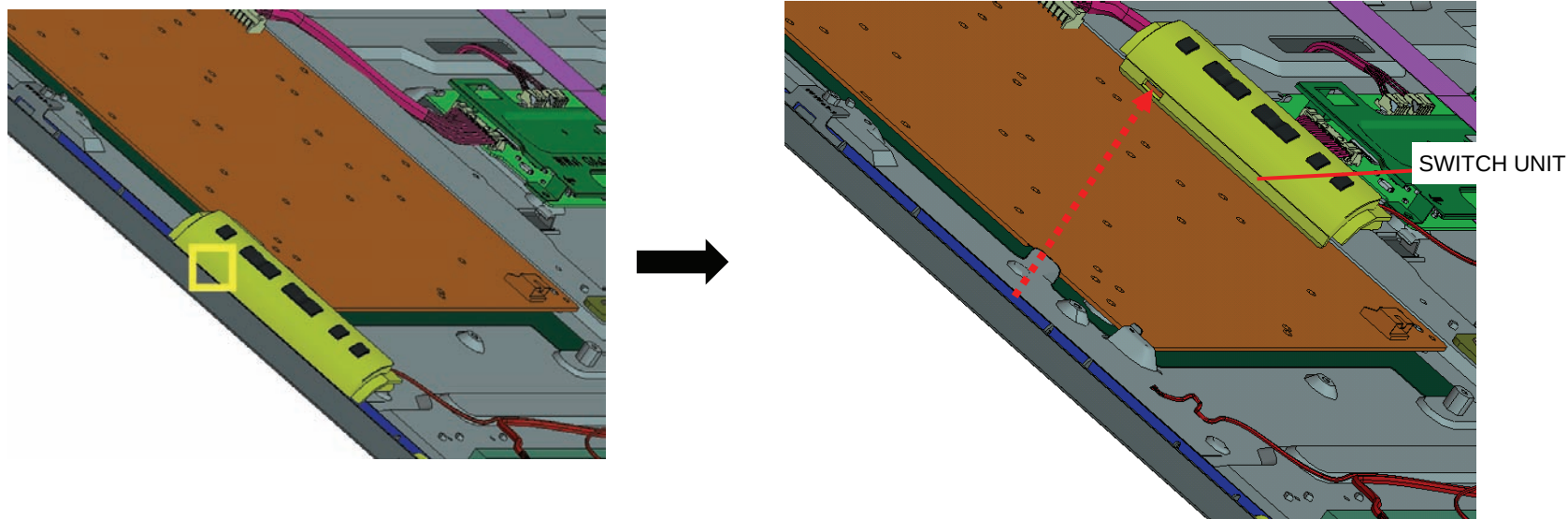
2 Screws (USER SCREW ST) – Inside bag, screw assy

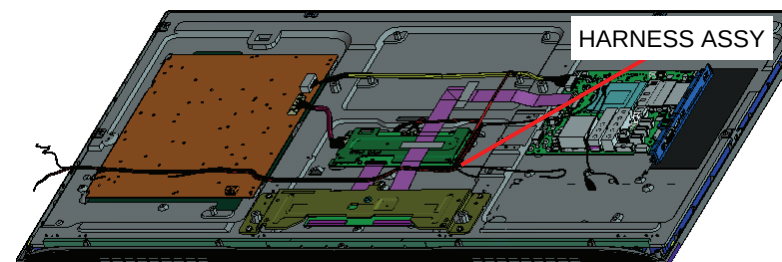
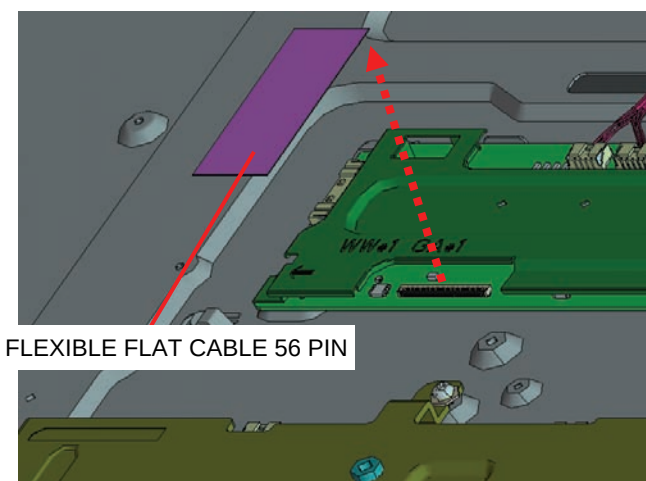
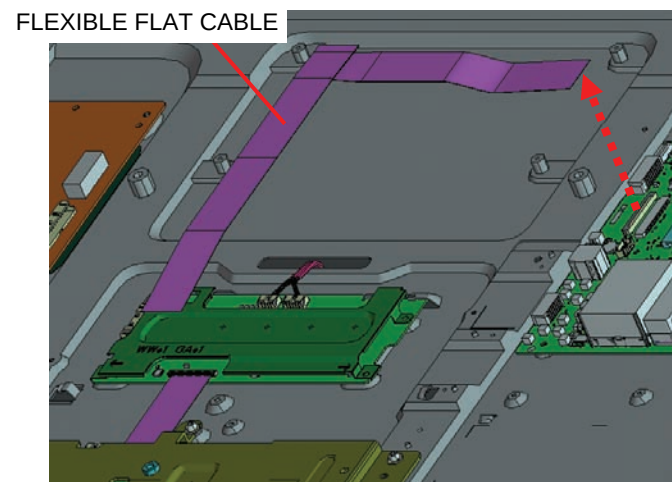
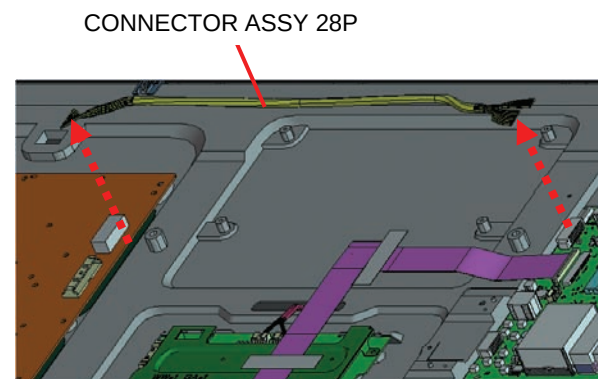
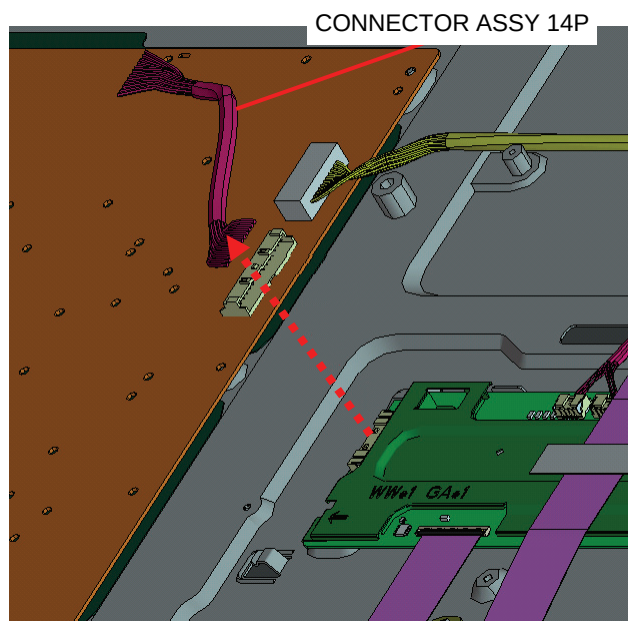
1-3. KDL-40EX720/721/723/724/725/726/727/728/729

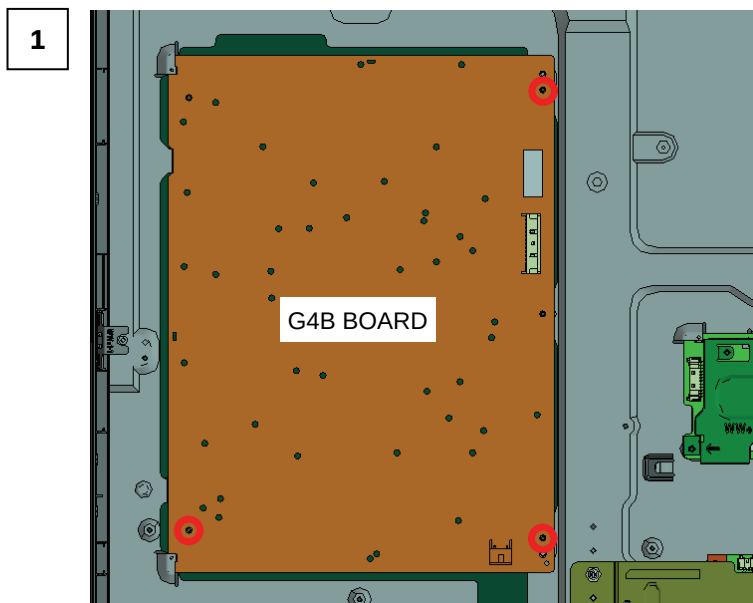
1-3-2. REAR COVER AND AC COVER



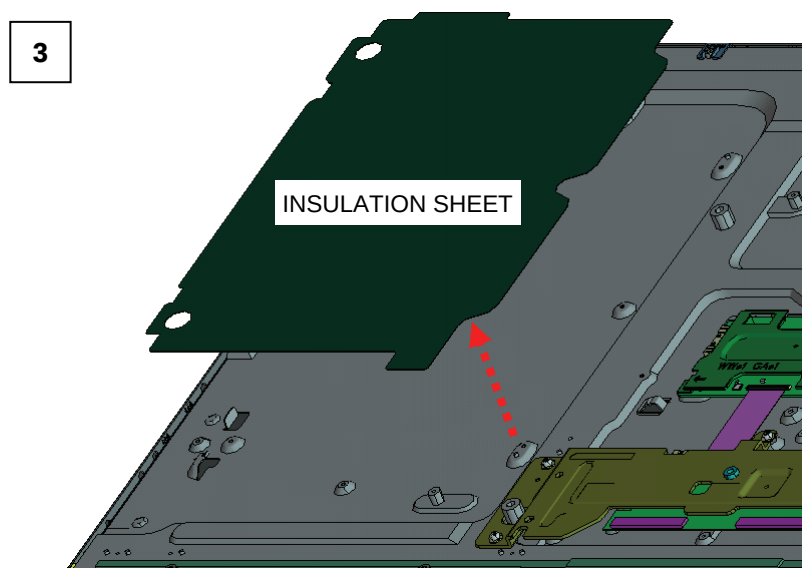
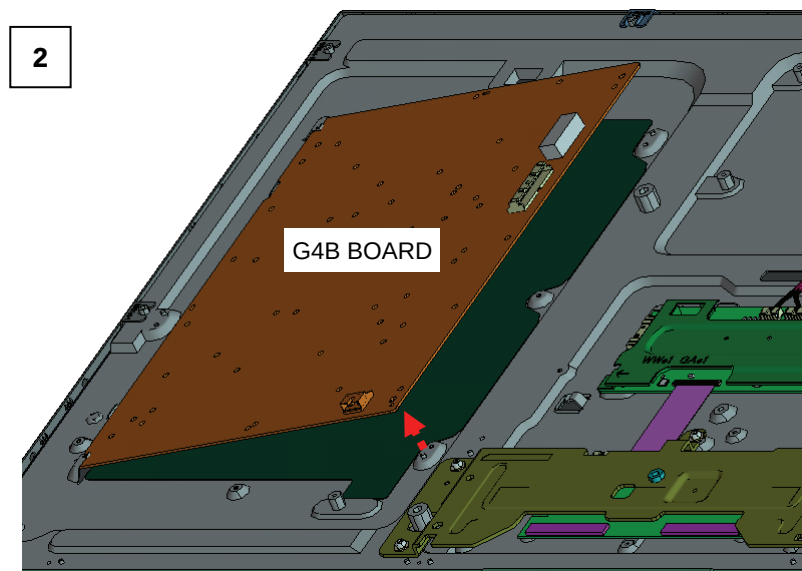
- 5 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901
- 7 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 2 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006301
- 1 Screw (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: FX0003779
- 2 Screws (JOINT, STAND) P/N: FX0002101

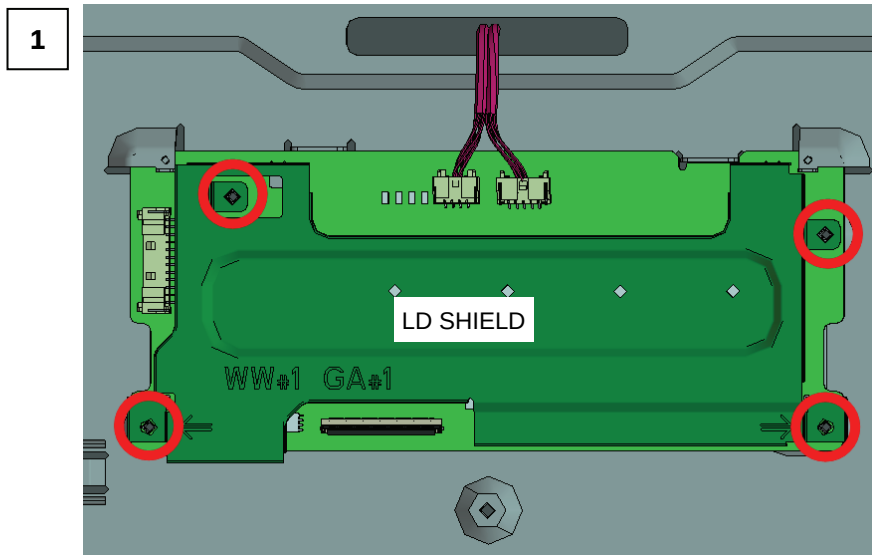
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-3. SWITCH UNIT AND SPEAKER**

1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-4. HARNESS**

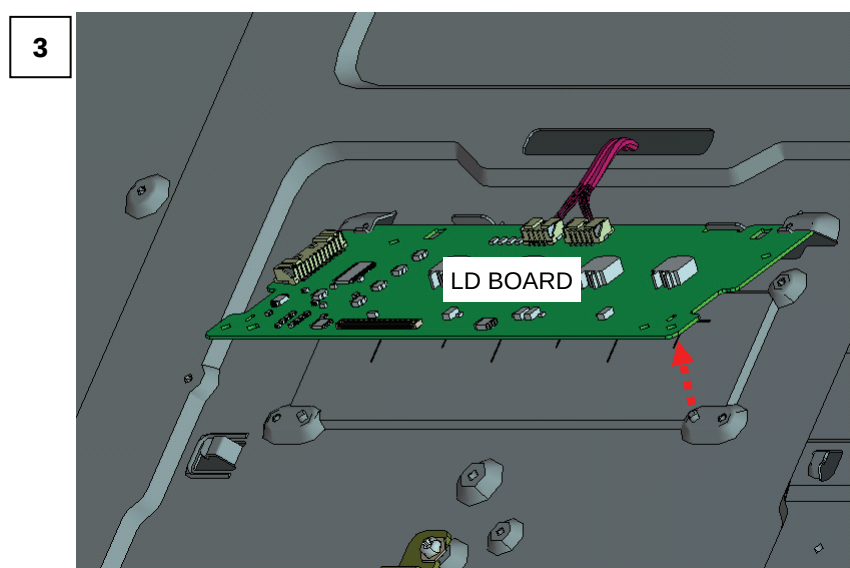
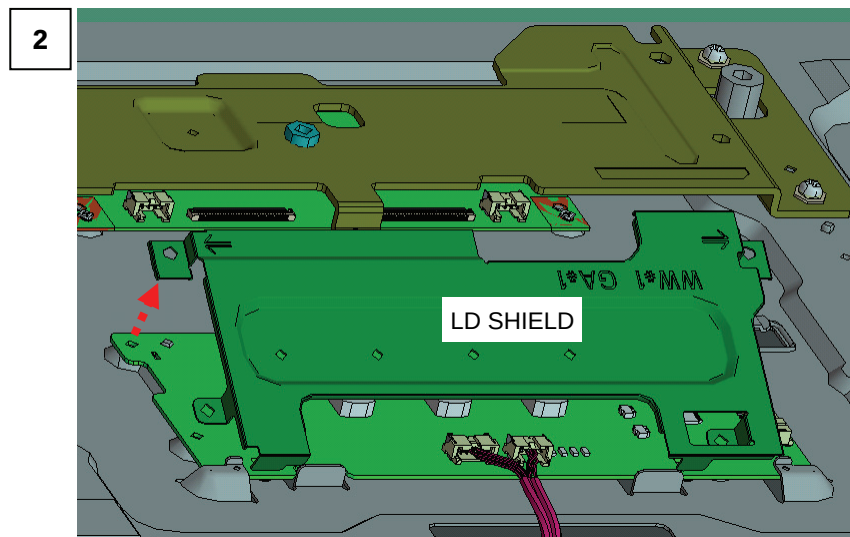
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-5. G4B BOARD**

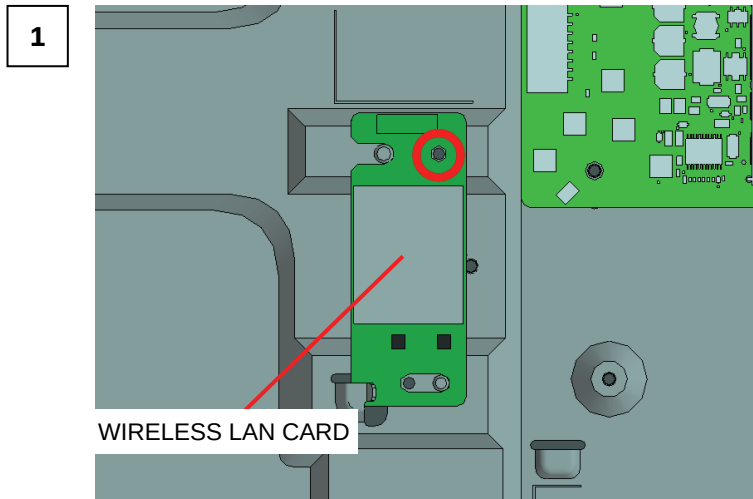
3 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



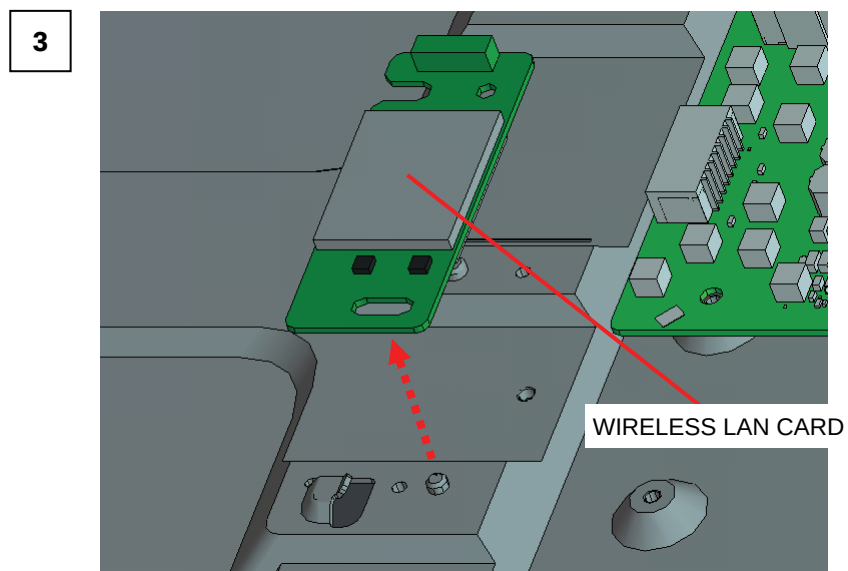
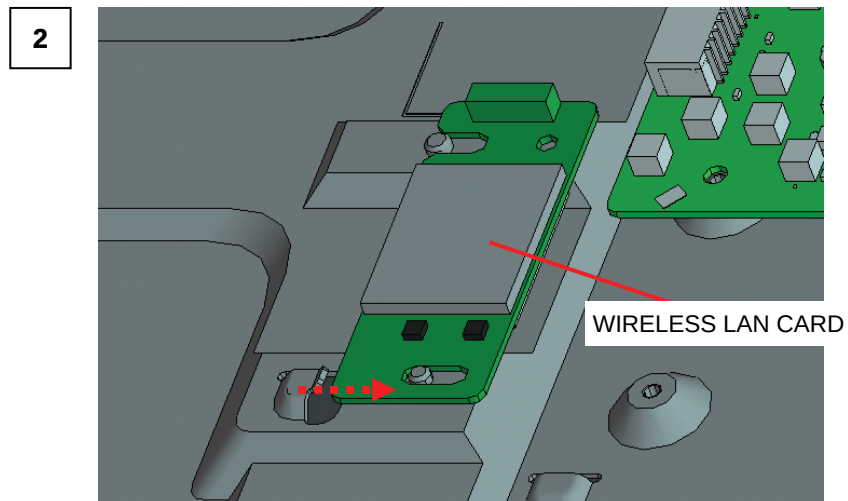
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-6. LD BOARD**

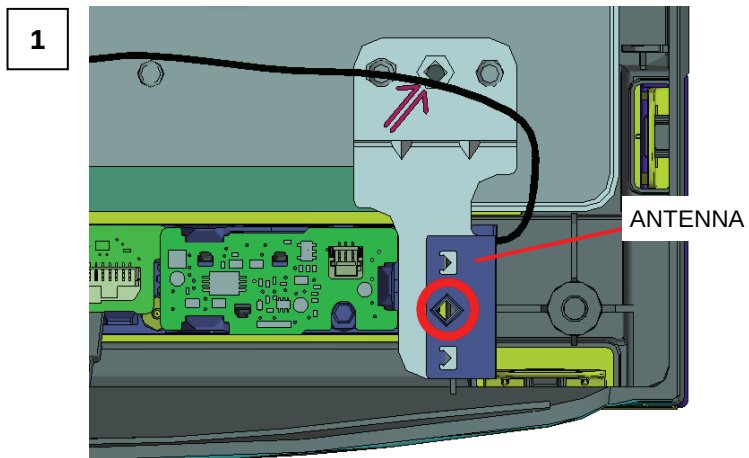
4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



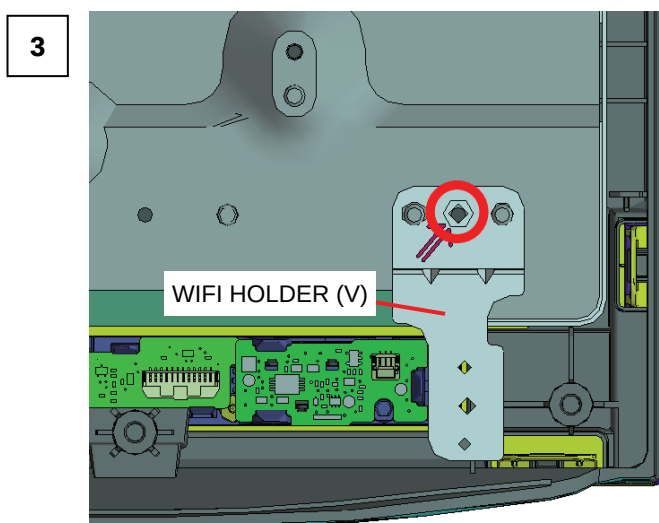
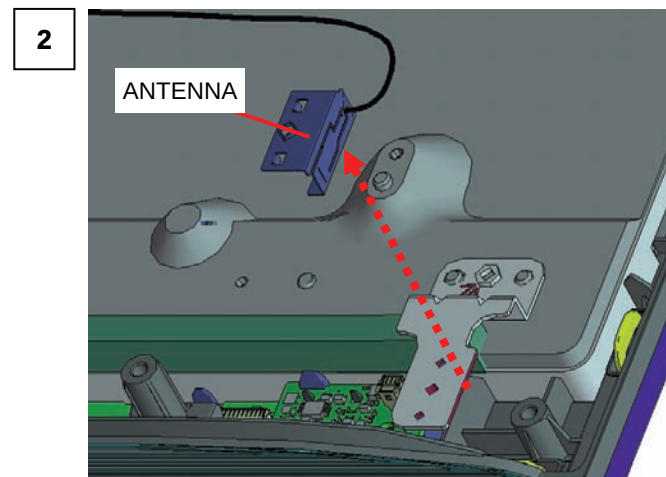
1-3. KDL-40EX721/724/726/727/728/729**1-3-7. WIRELESS LAN CARD**

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

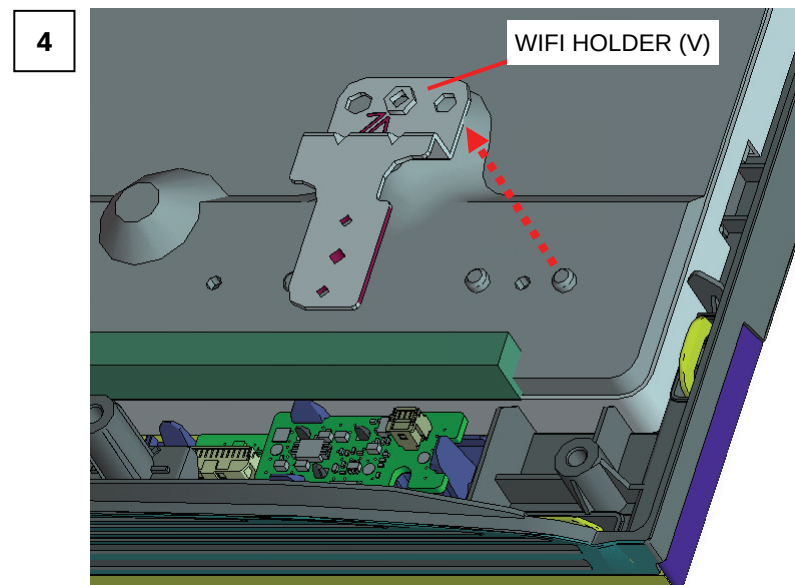


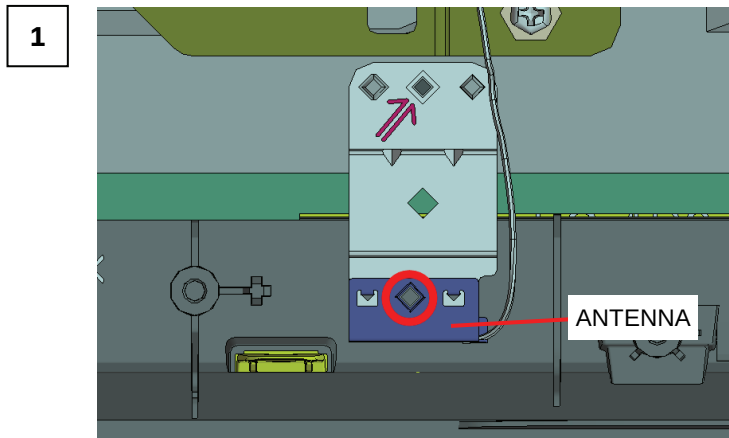
1-3. KDL-40EX721/724/726/727/728/729**1-3-8. ANTENNA AND WIFI HOLDER (V)**

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

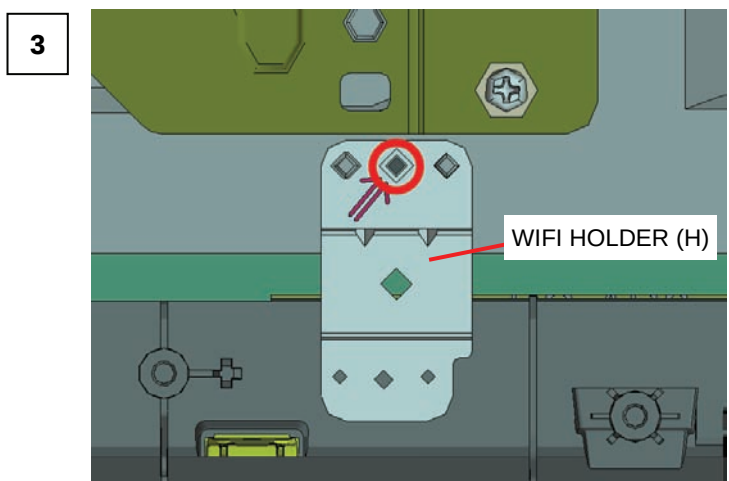
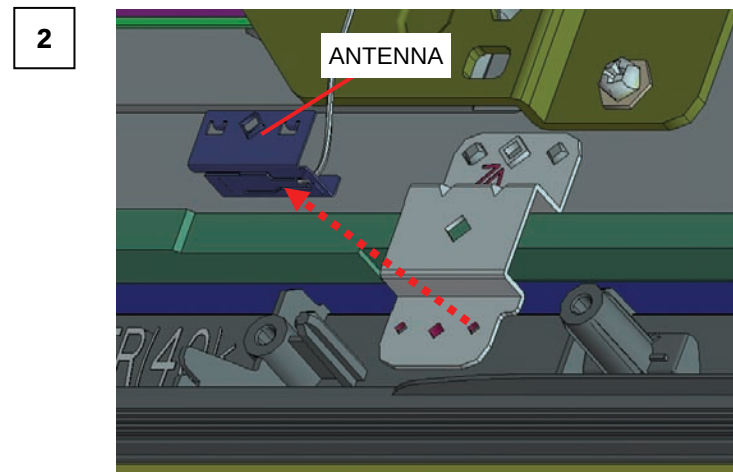


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

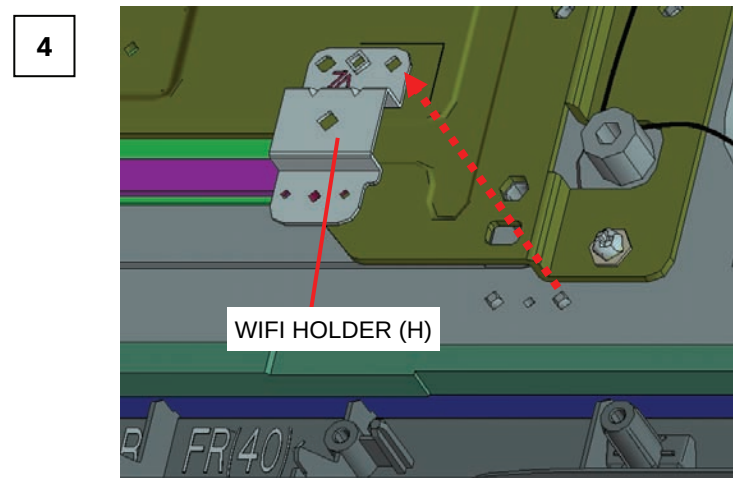


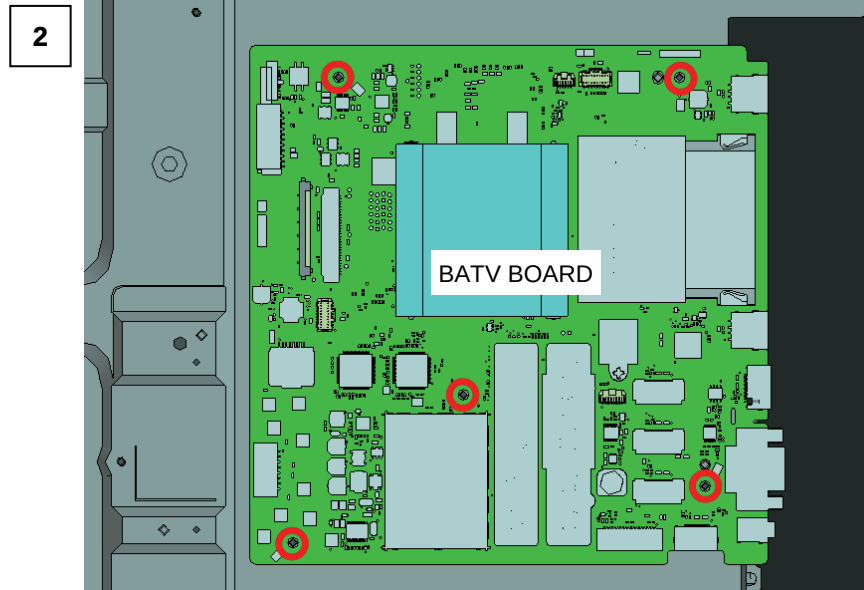
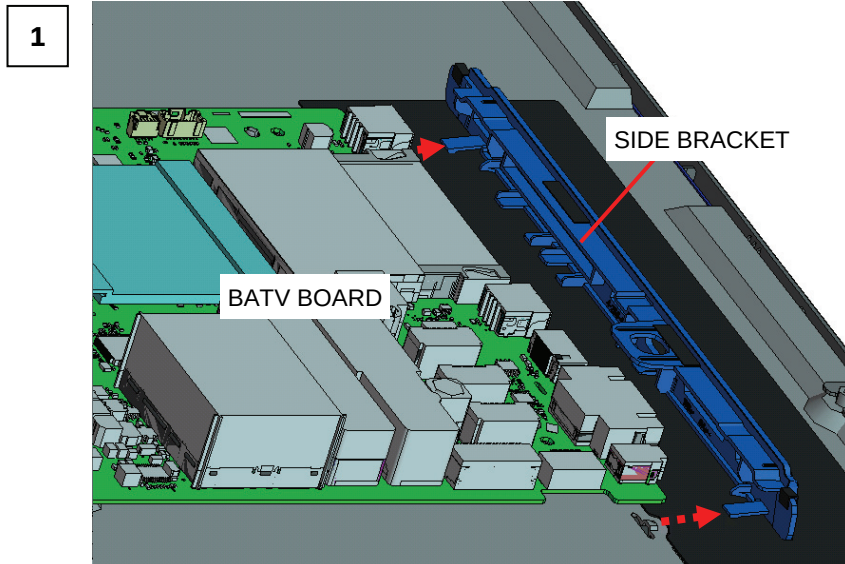
1-3. KDL-40EX721/724/726/727/728/729**1-3-9. ANTENNA AND WIFI HOLDER (H)**

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

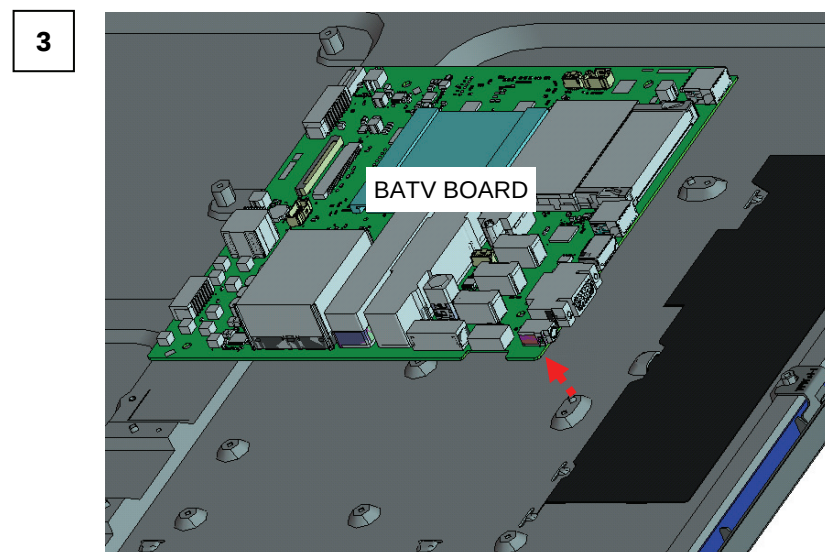


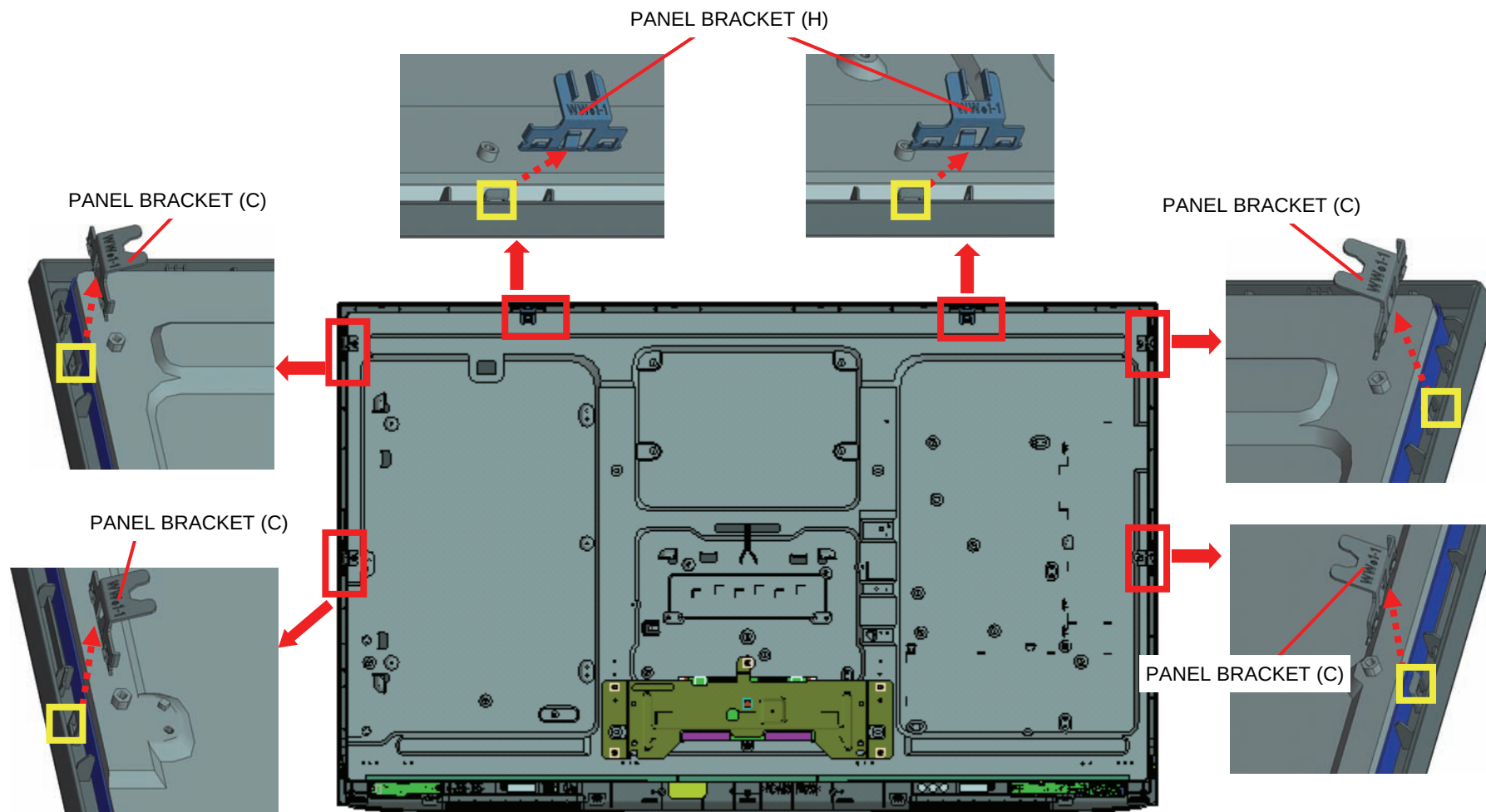
1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

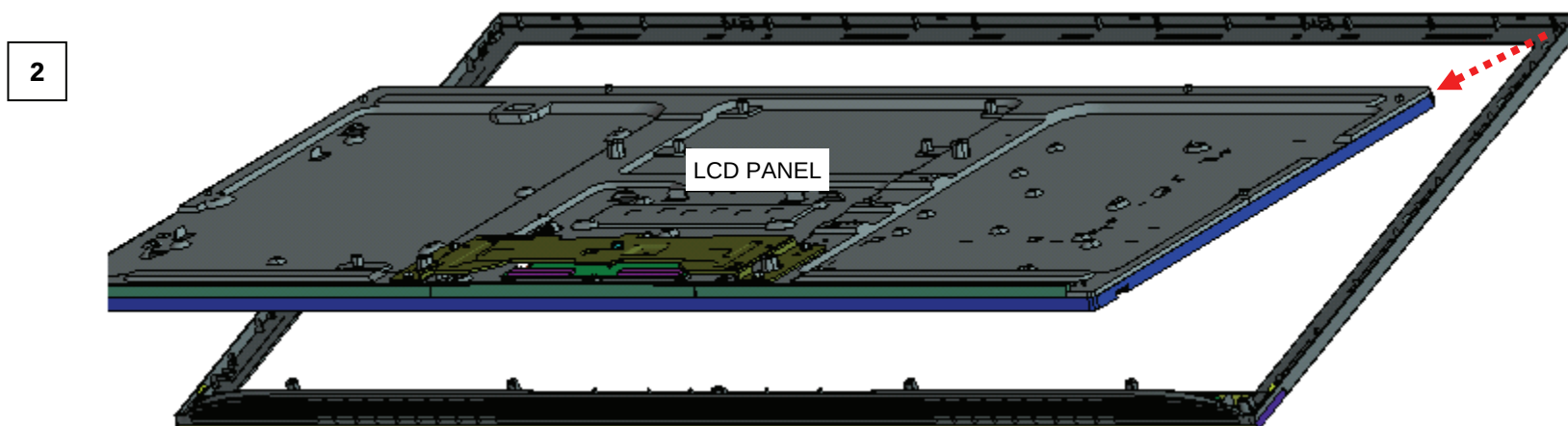
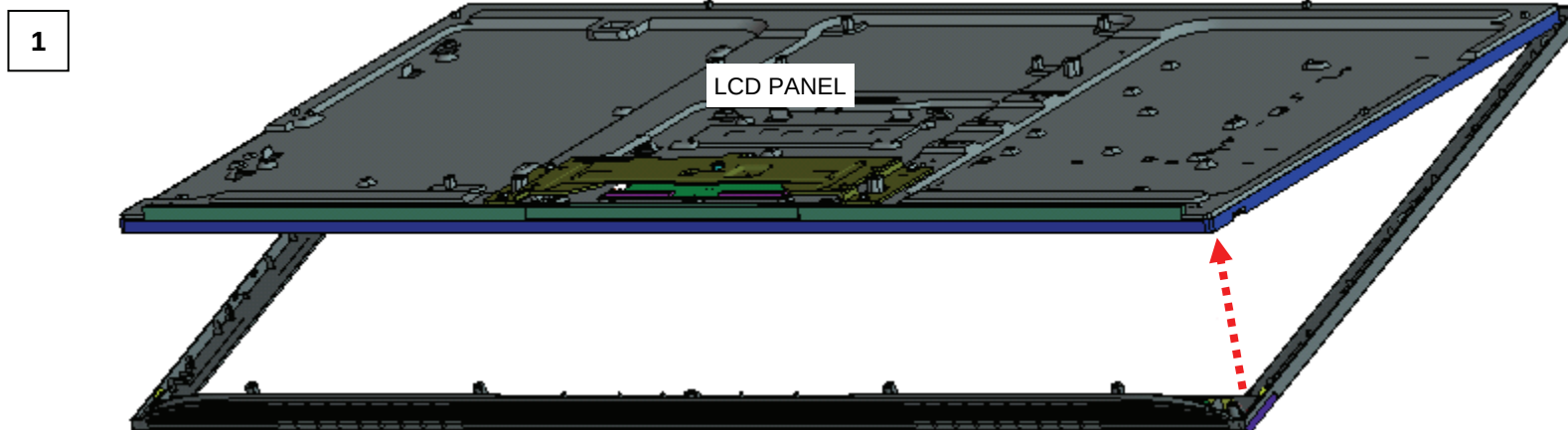


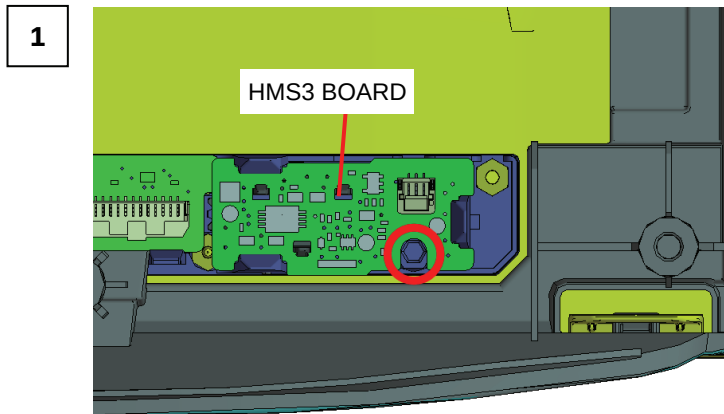
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-10. SIDE BRACKET AND BATV BOARD**

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

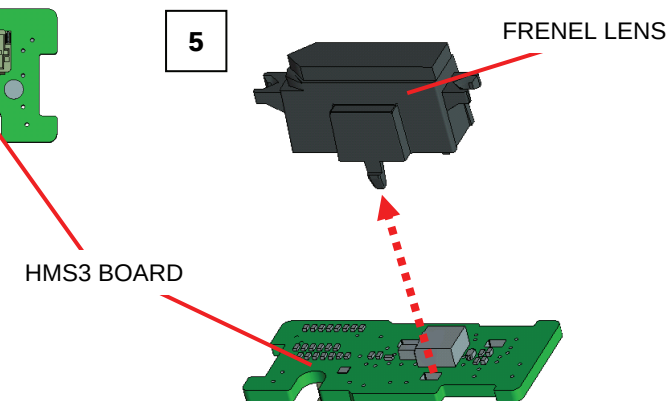
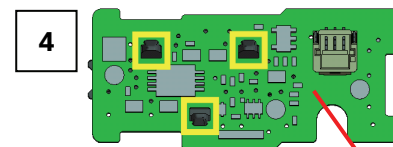
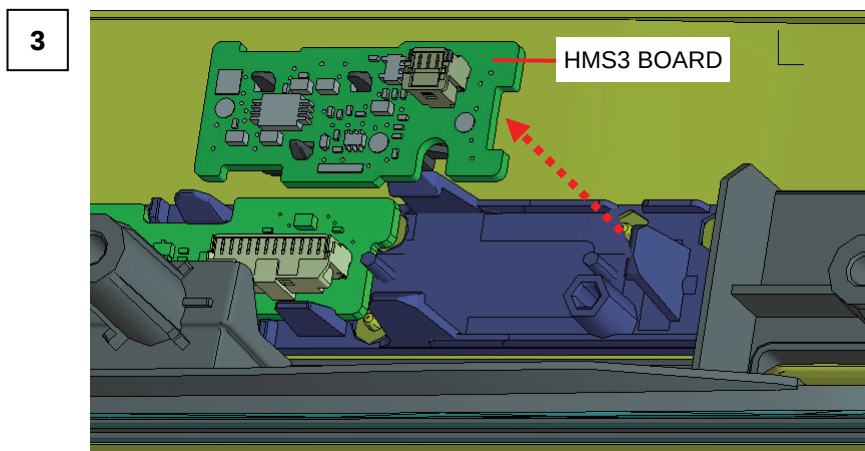
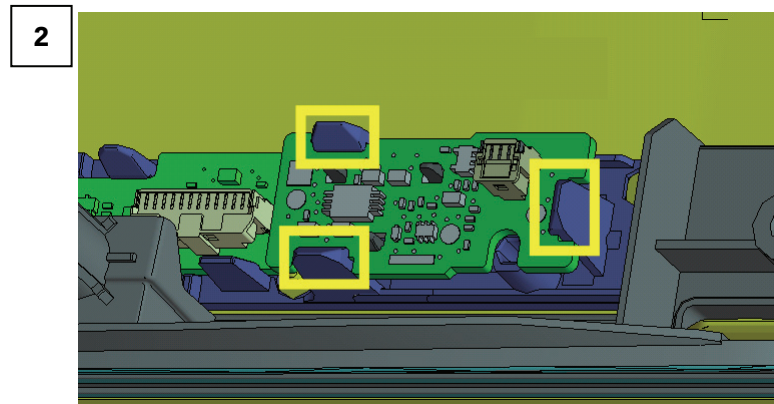


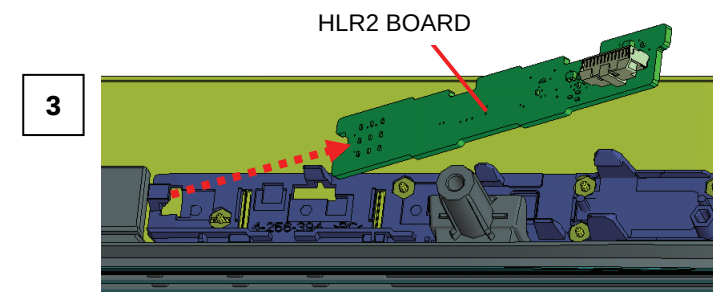
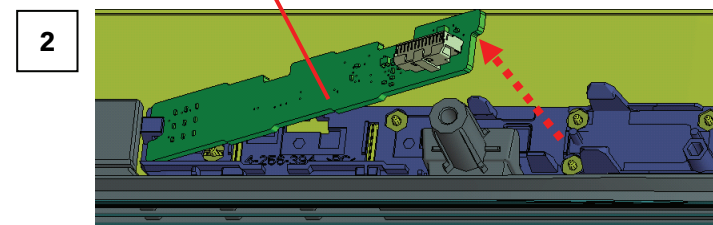
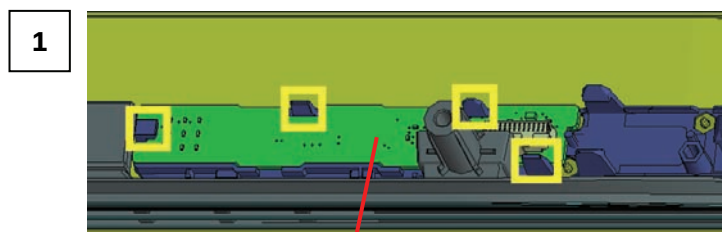
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-11. PANEL BRACKET**

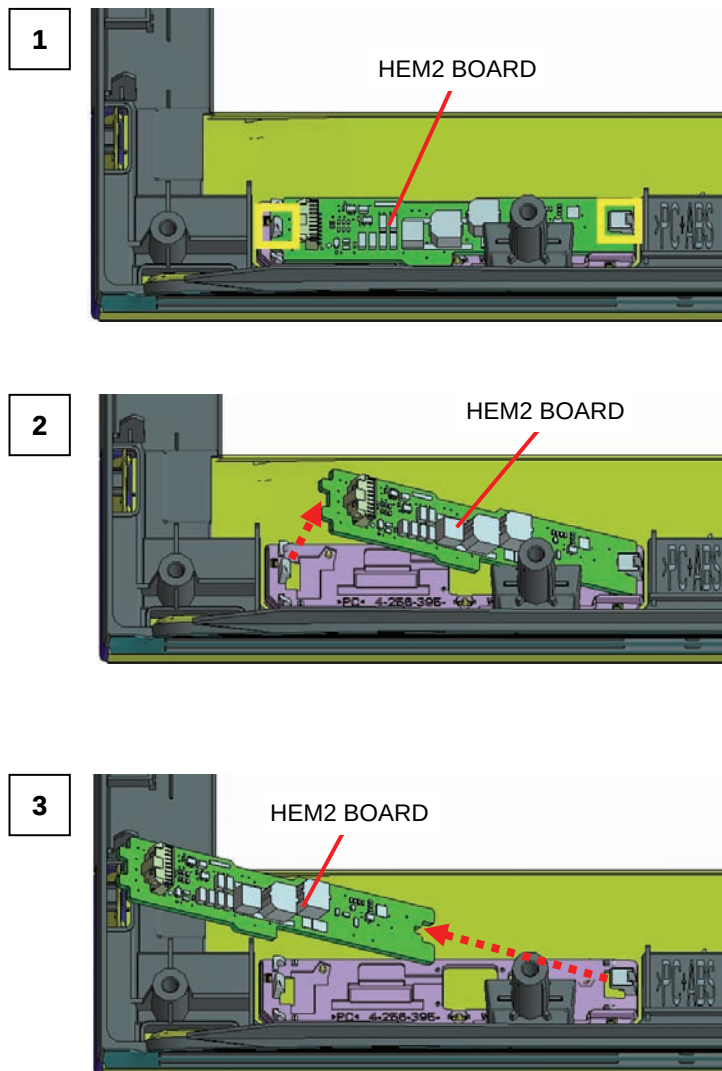
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-12. LCD PANEL**

1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-13. HMS3 BOARD AND FRENEL LENS**

1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0003779

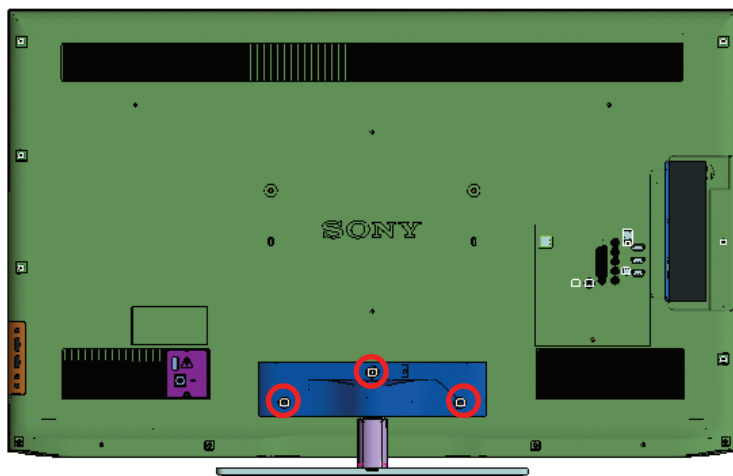


1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-14. HLR2 BOARD**

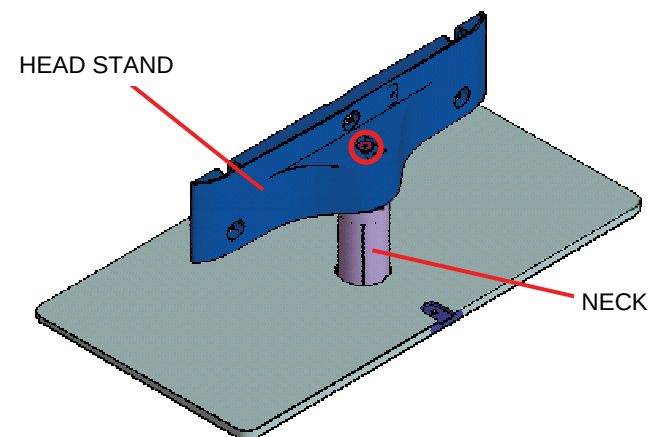
1-3. KDL-40EX720/721/723/724/725/726/727/728/729**1-3-15. HEM2 BOARD AND BEZEL ASSY**

1-4. KDL-46EX720/721/723/724/725/726/727/728/729

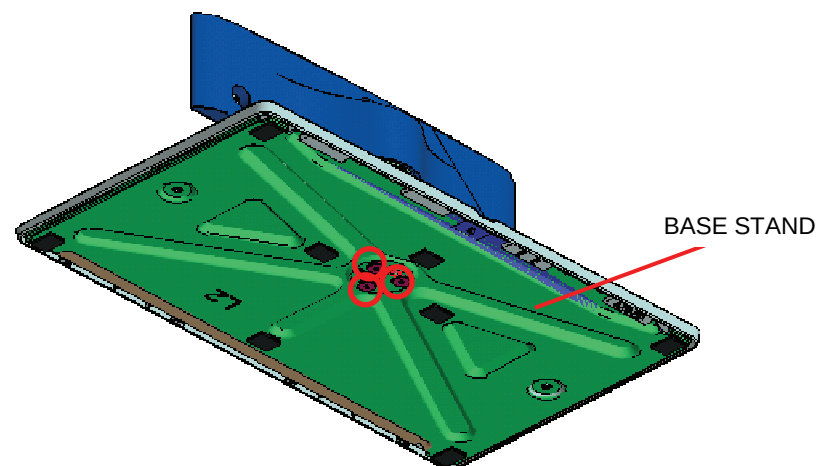
1-4-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



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



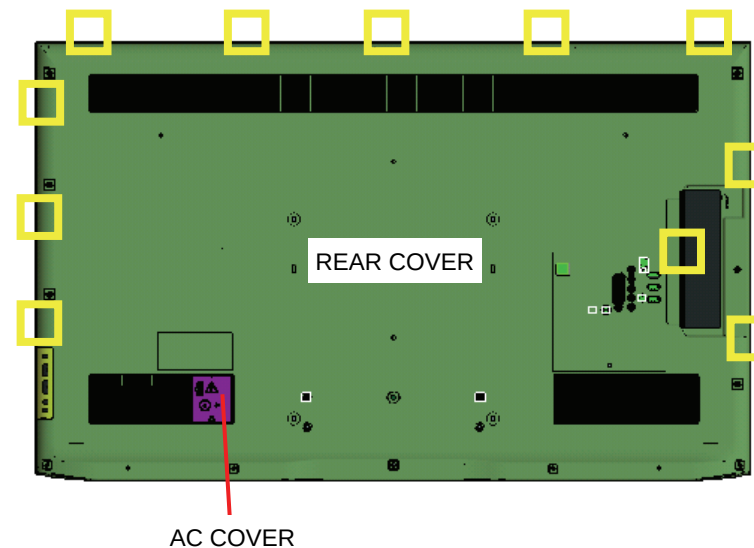
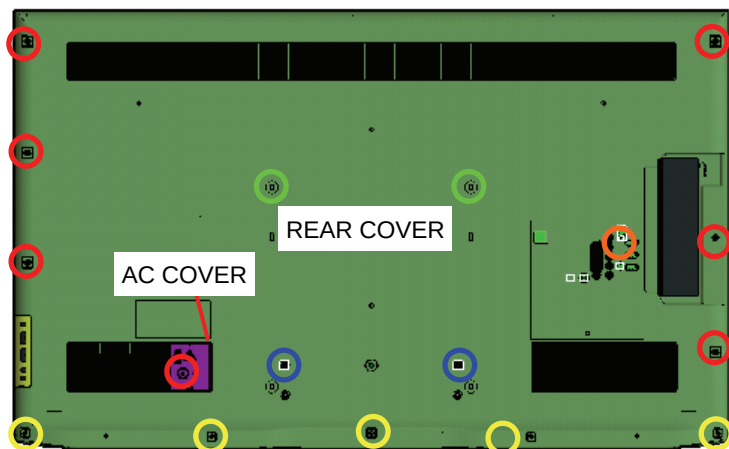
1 Screw (USER SCREW ST) – Inside bag, screw assy



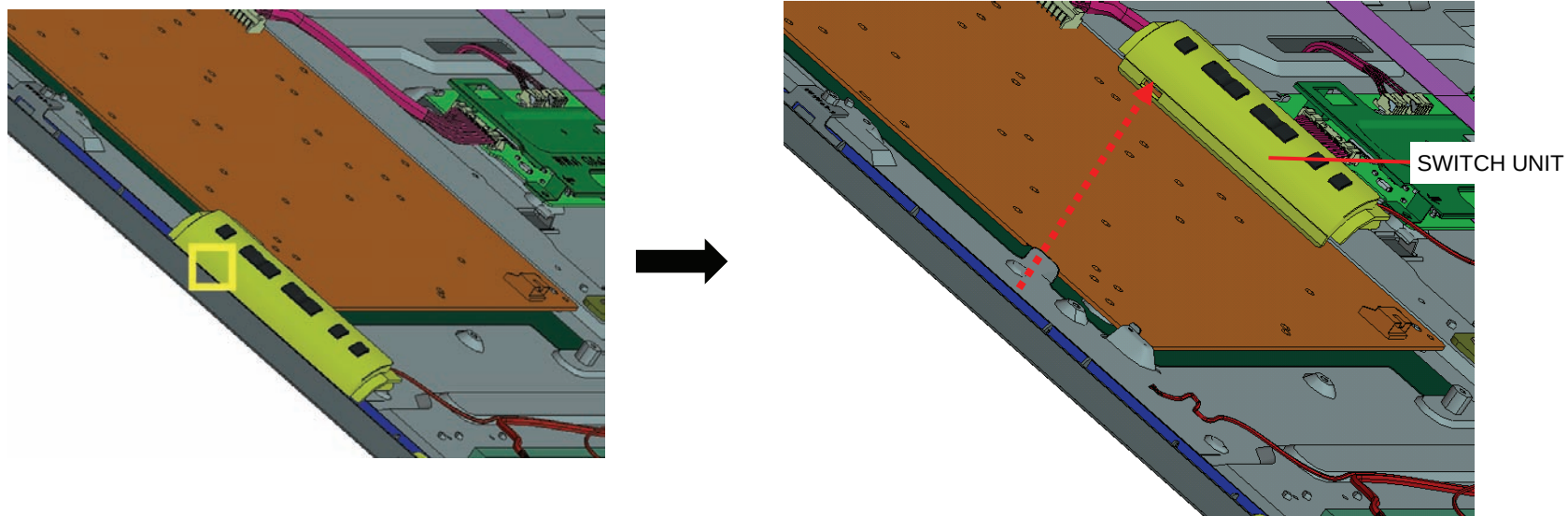
3 Screws (USER SCREW ST) – Inside bag, screw assy

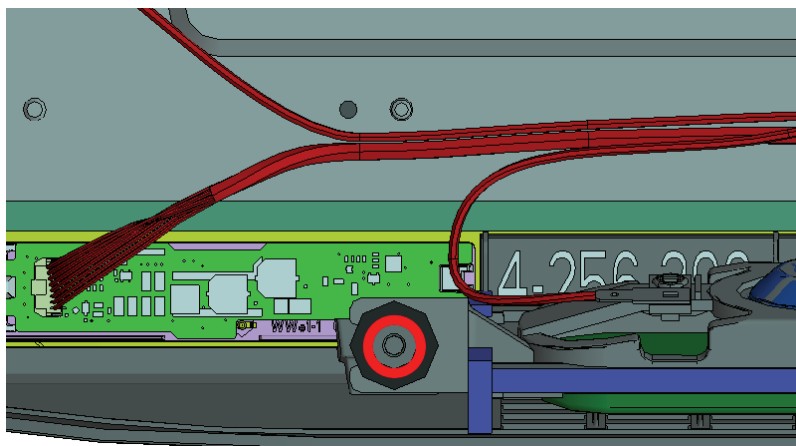
1-4. KDL-46EX720/721/723/724/725/726/727/728/729

1-4-2. REAR COVER AND AC COVER

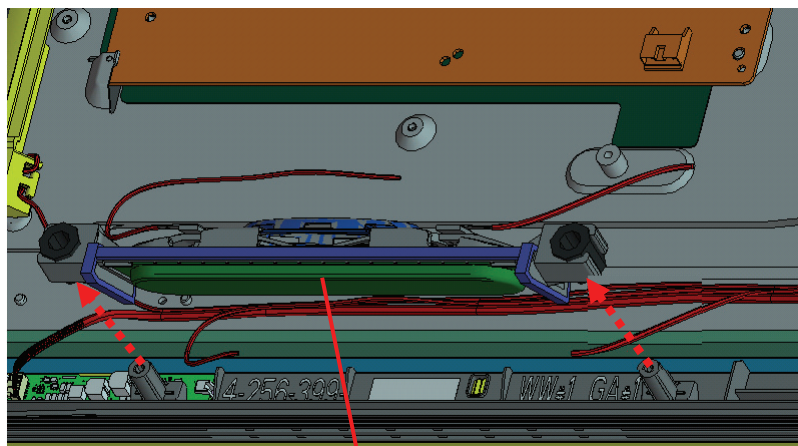


- 7 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901
- 5 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 2 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006301
- 1 Screw (SCREW +BVTP 3X12 TYPE2 IT-3) P/N: FX0003779
- 2 Screws (JOINT, STAND) P/N: FX0002101

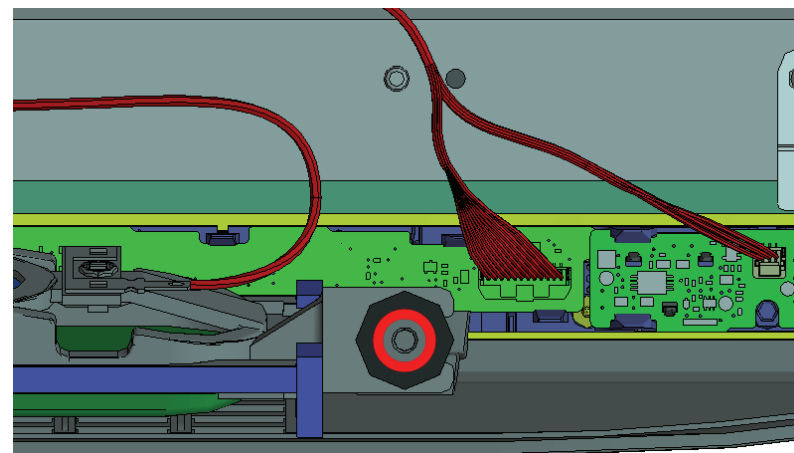
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-3. SWITCH UNIT**

1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-4. SPEAKER**

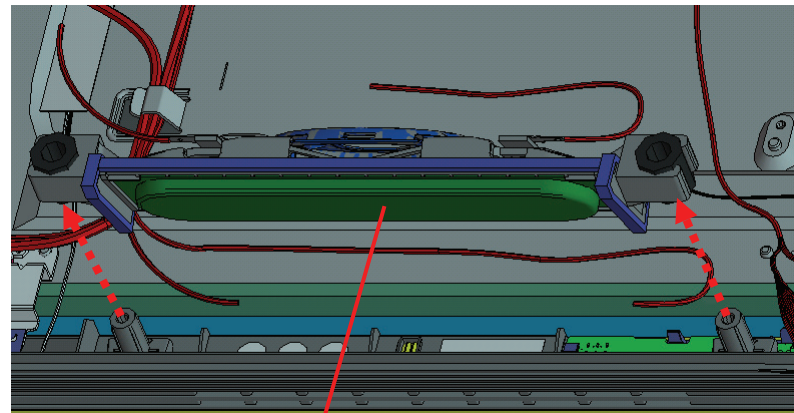
1 Screw (SCREW, +PWTP2 4X16) P/N: FX0016801



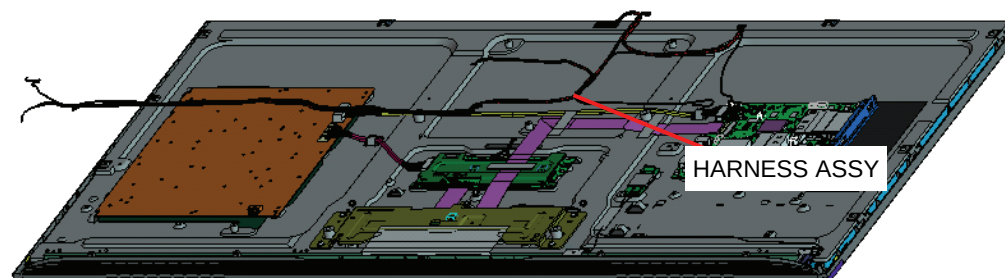
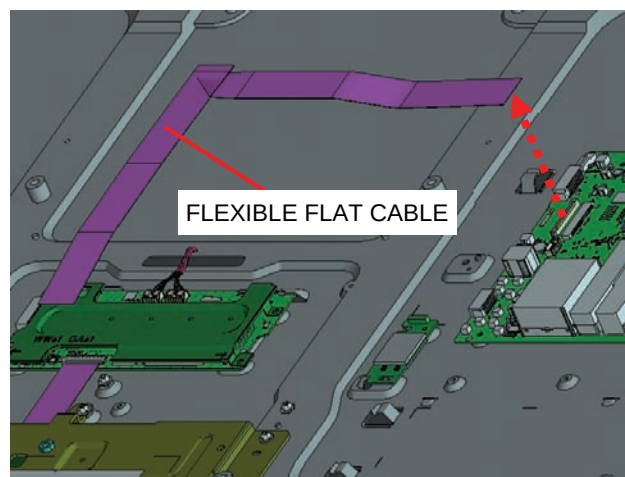
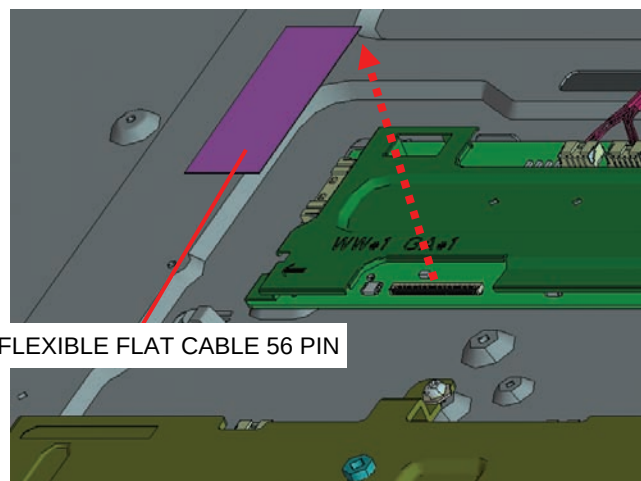
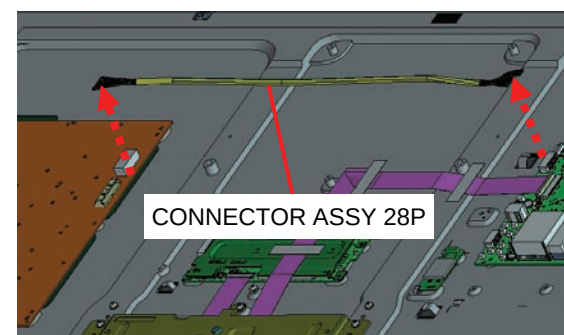
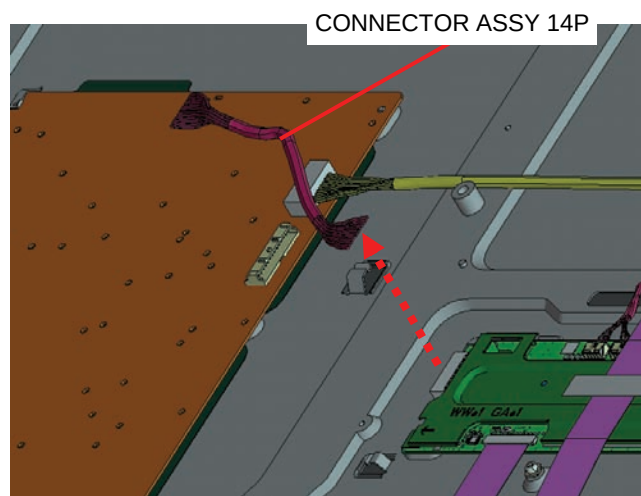
SPEAKER



1 Screw (SCREW, +PWTP2 4X16) P/N: FX0016801

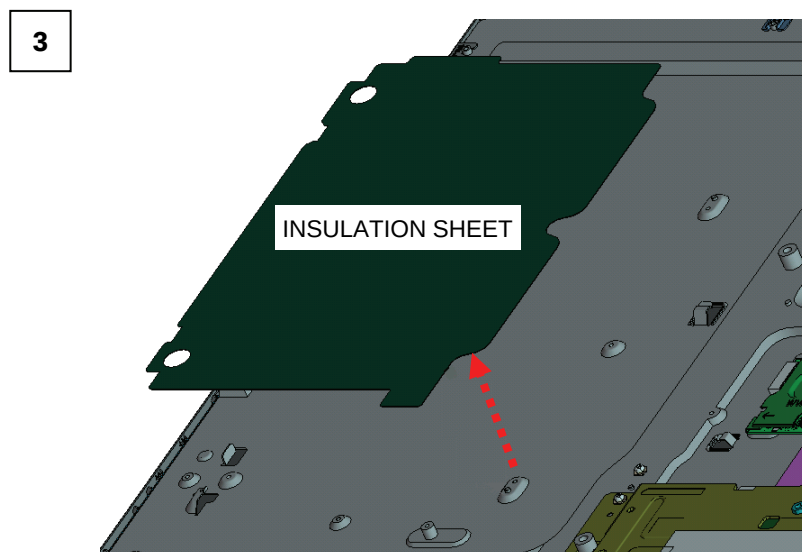
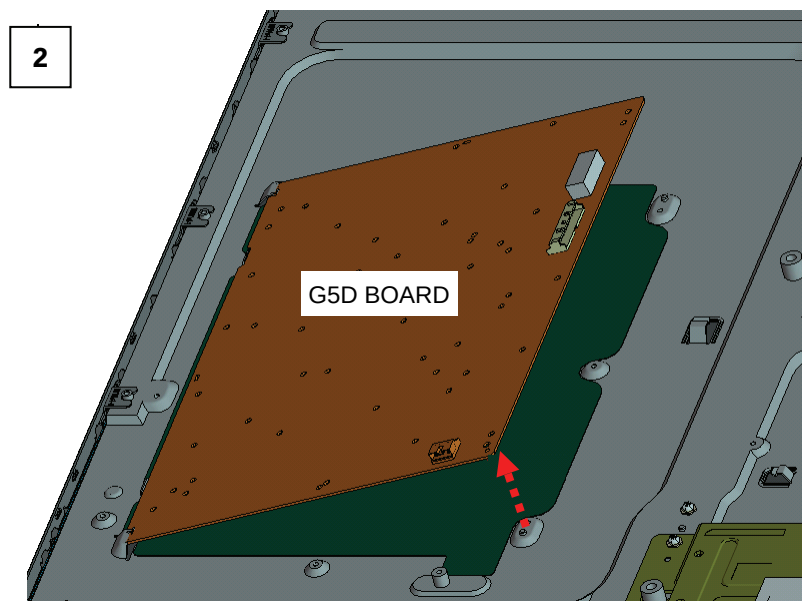


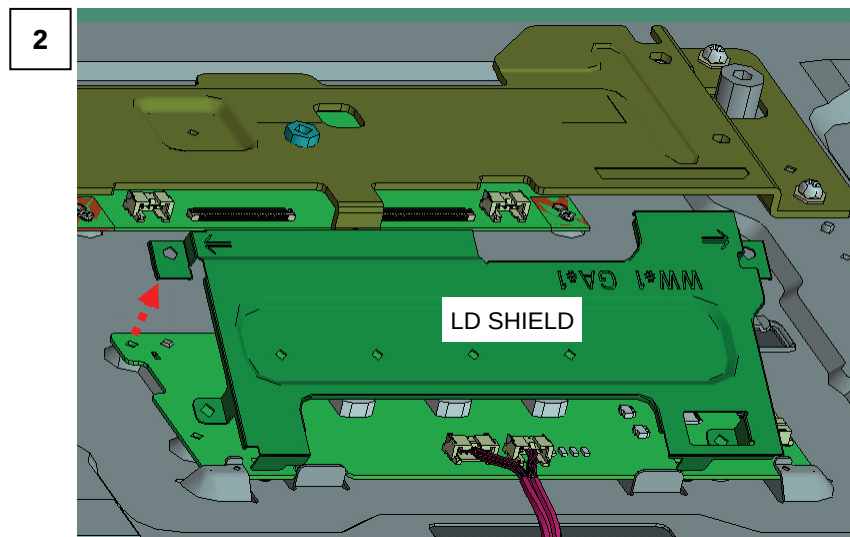
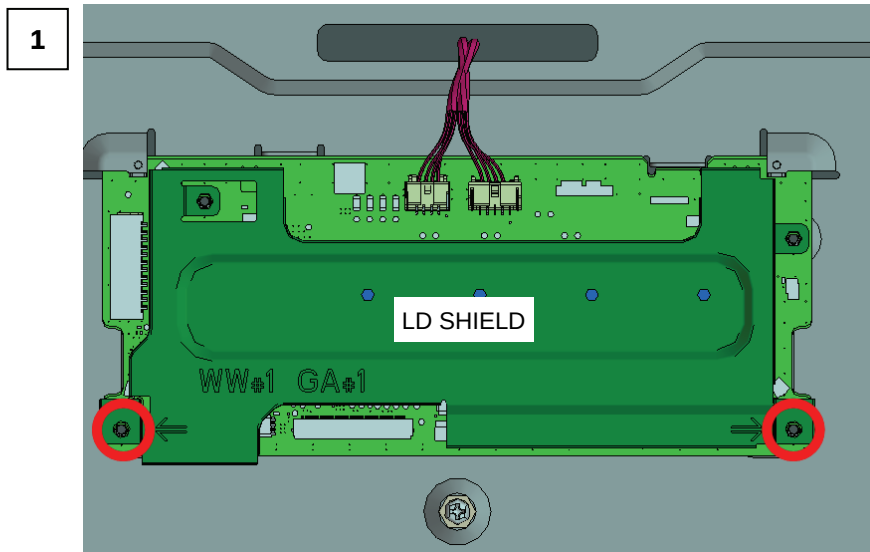
SPEAKER

1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-5. HARNESS**

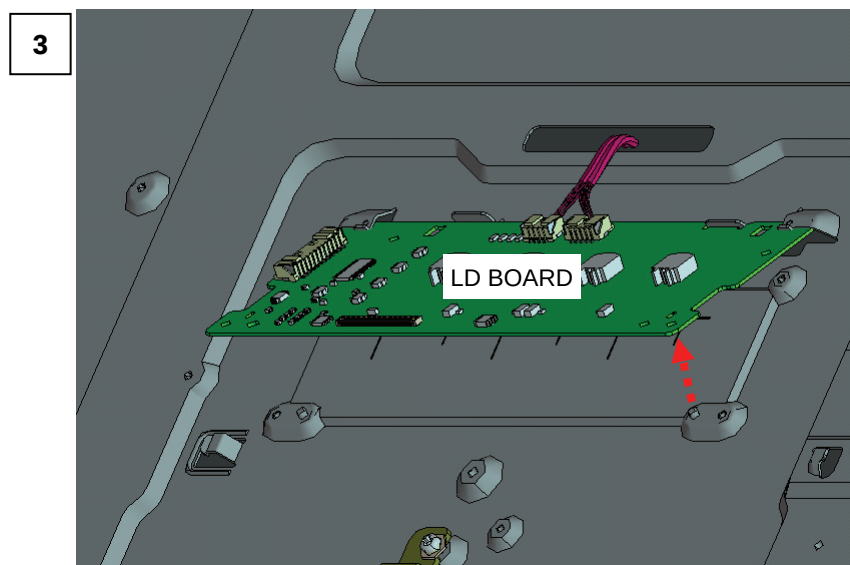
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-6. G5D BOARD**

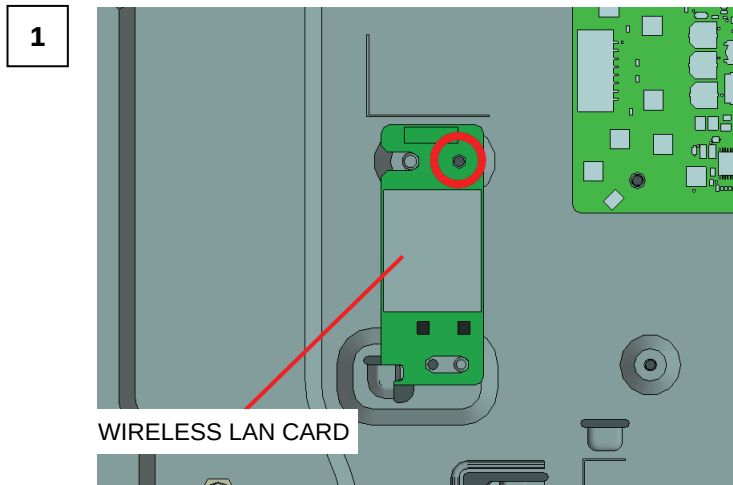
3 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



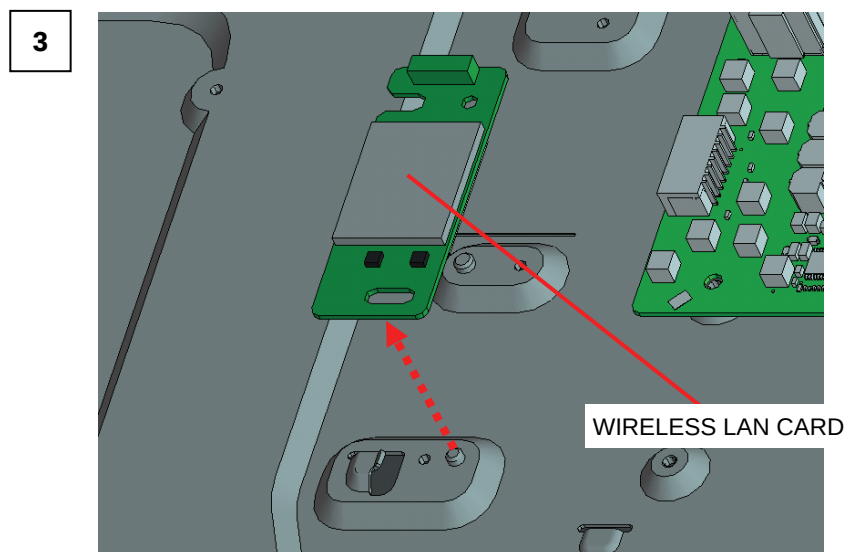
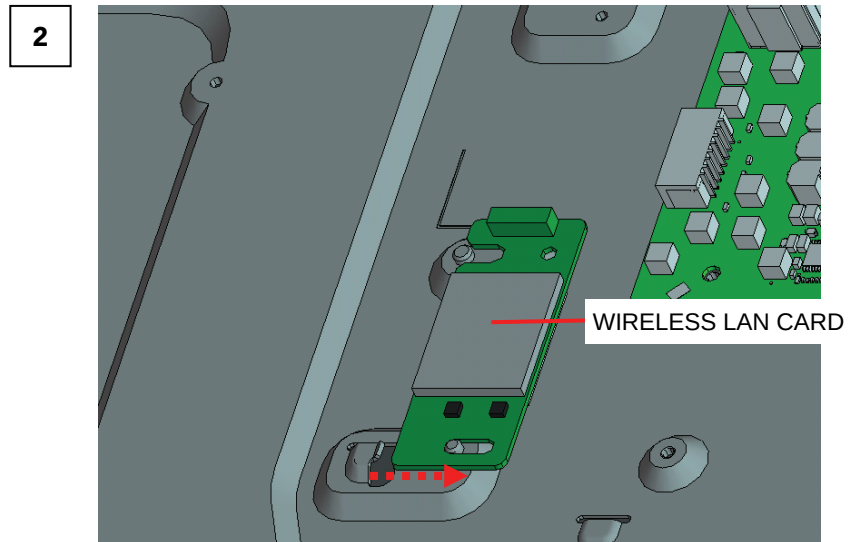
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-7. LD BOARD**

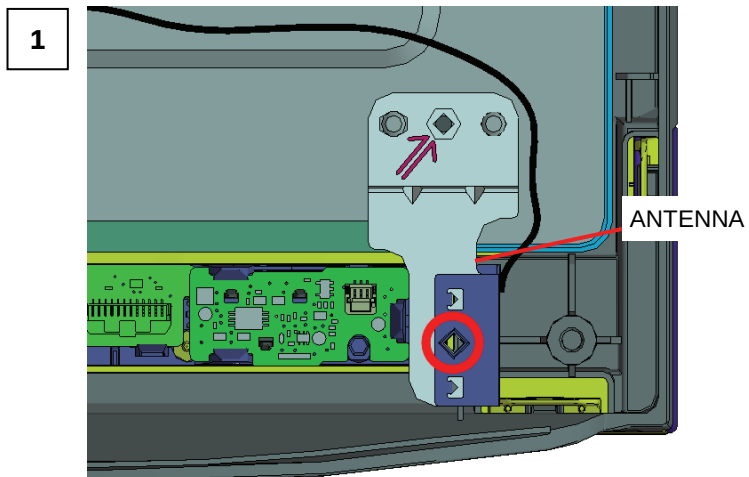
2 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



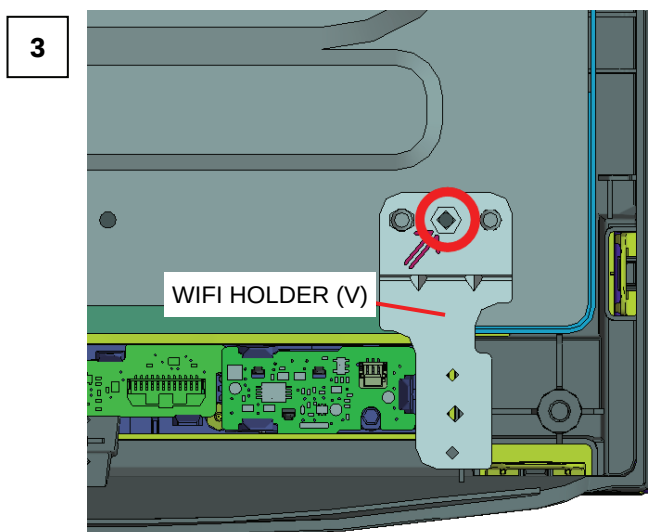
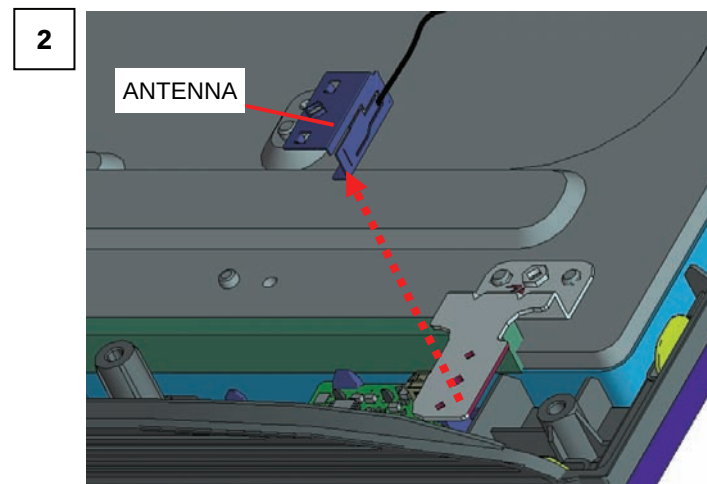
1-4. KDL-46EX721/724/726/727/728/729**1-4-8. WIRELESS LAN CARD**

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

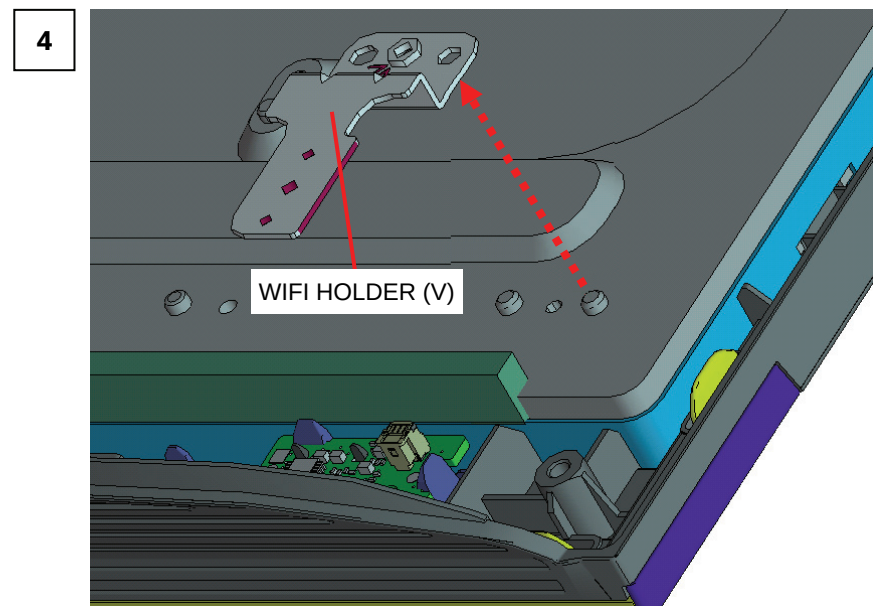


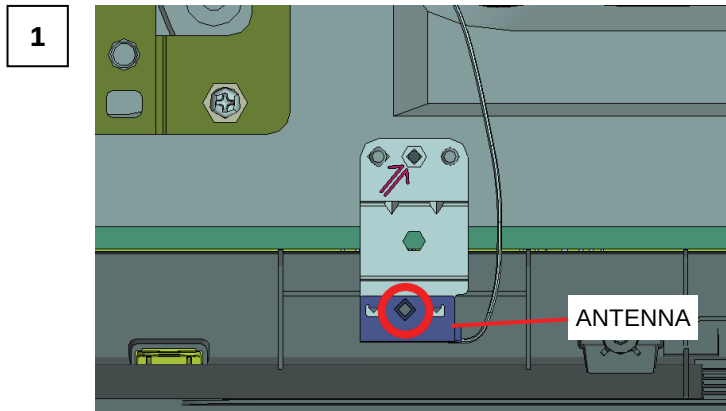
1-4. KDL-46EX721/724/726/727/728/729**1-4-9. ANTENNA AND WIFI HOLDER (V)**

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

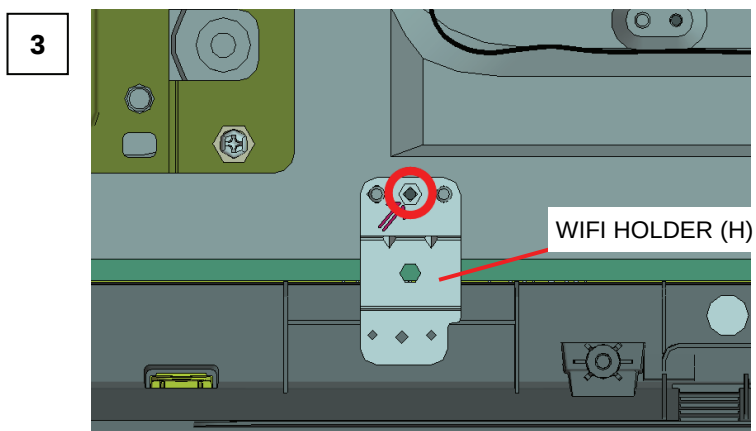
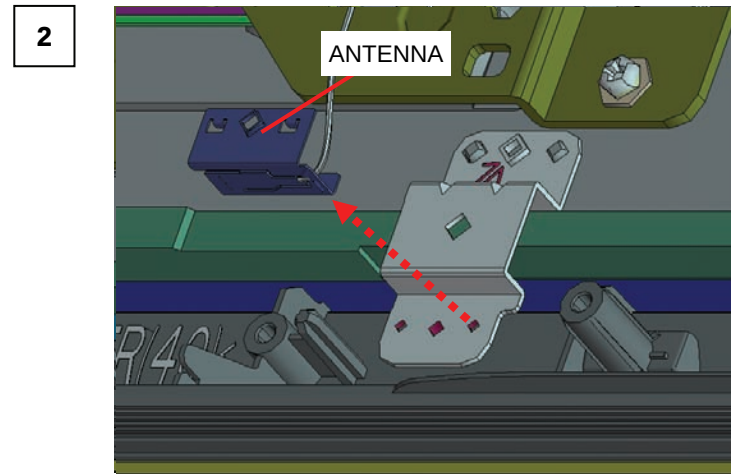


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

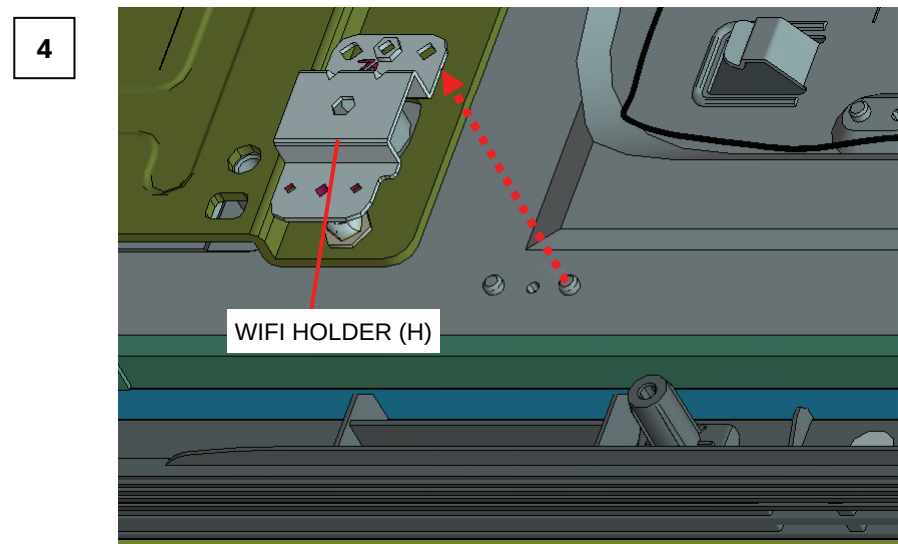


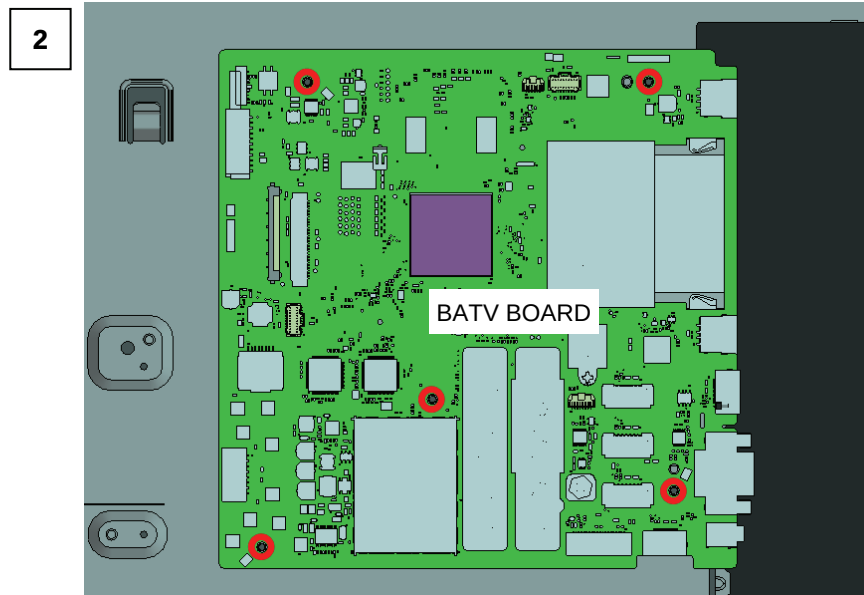
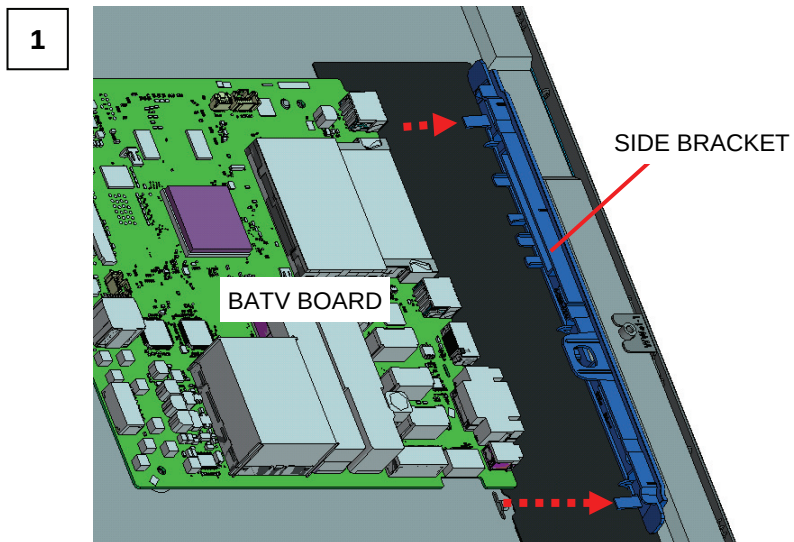
1-4. KDL-46EX721/724/726/727/728/729**1-4-10. ANTENNA AND WIFI HOLDER (H)**

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

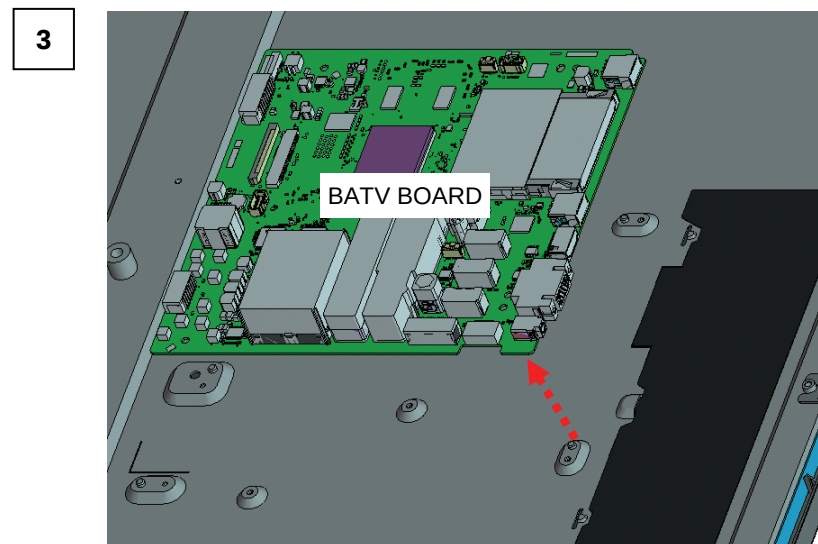


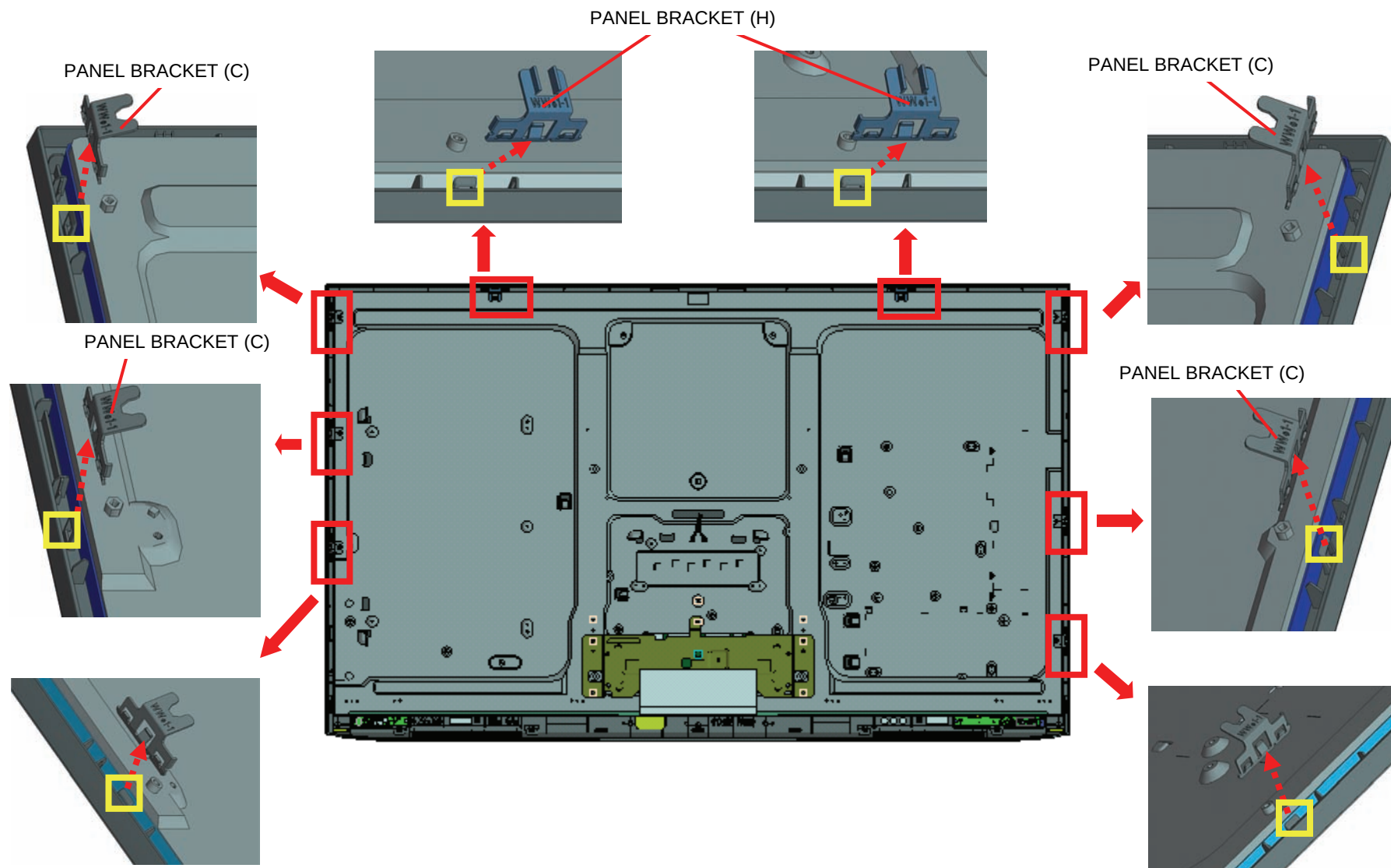
1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

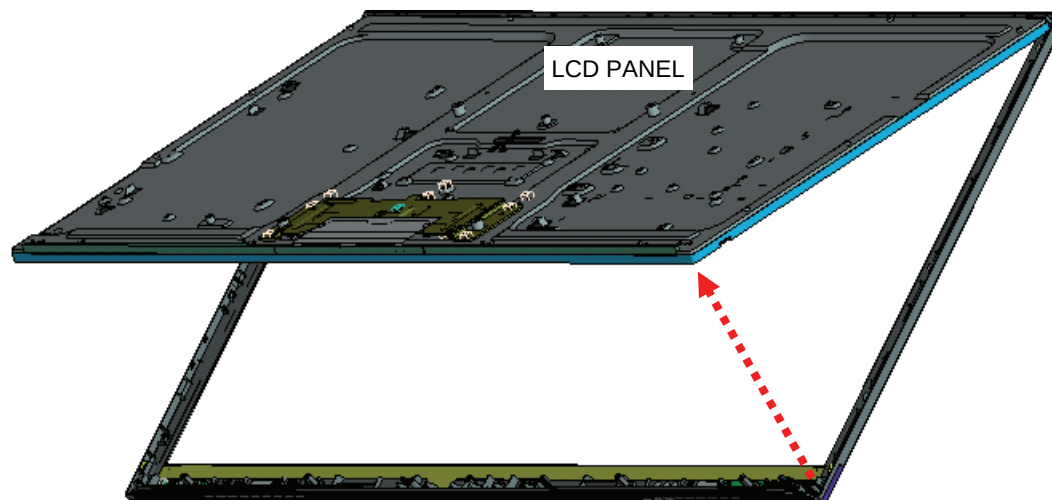
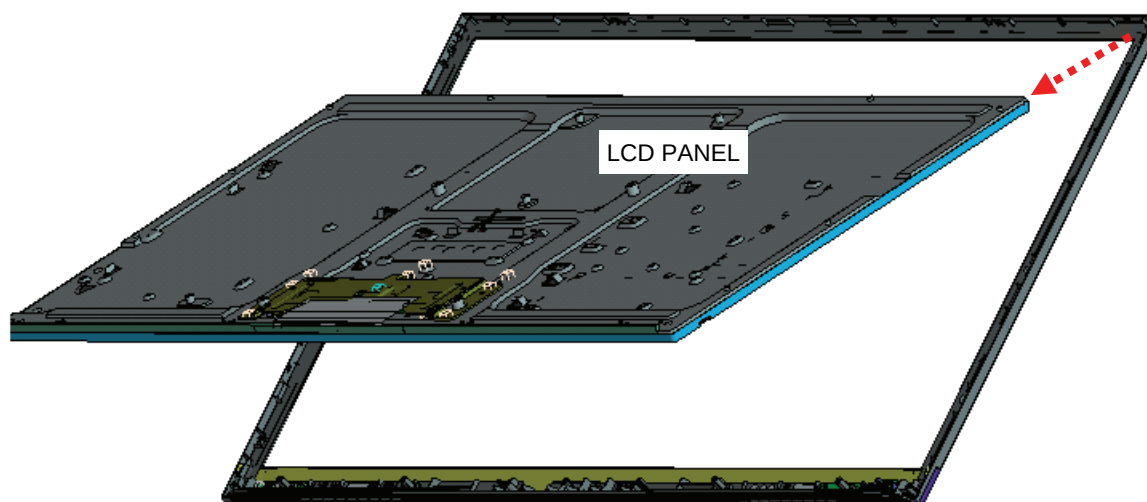


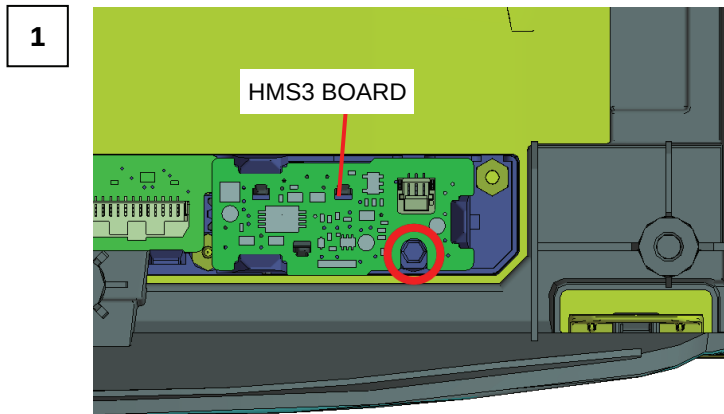
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-11. SIDE BRACKET AND BATV BOARD**

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

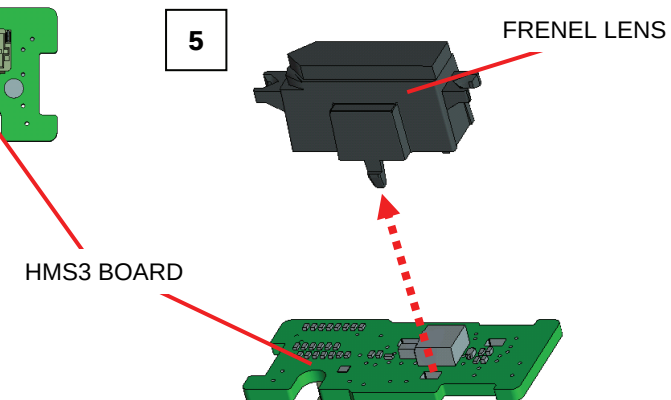
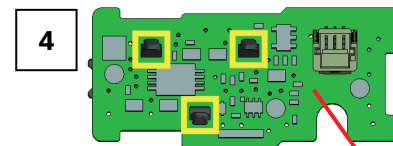
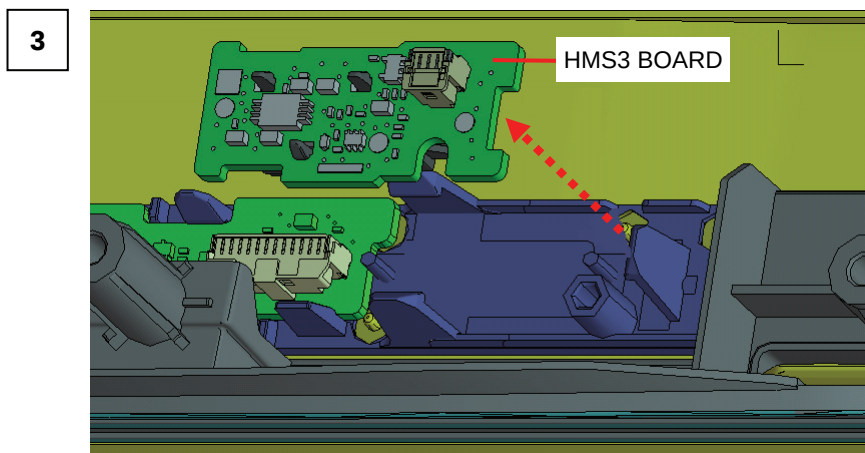
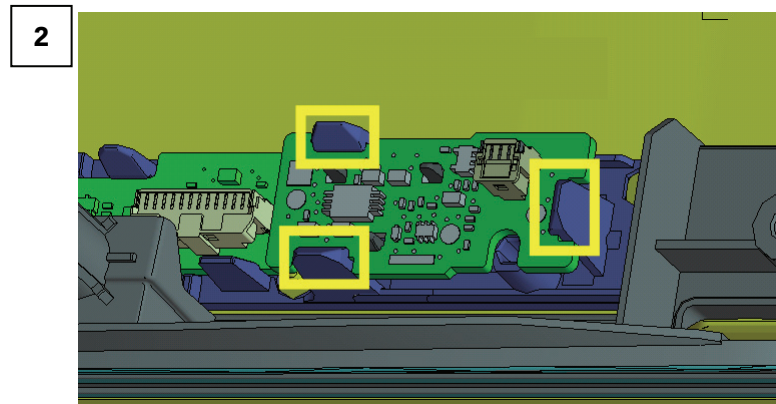


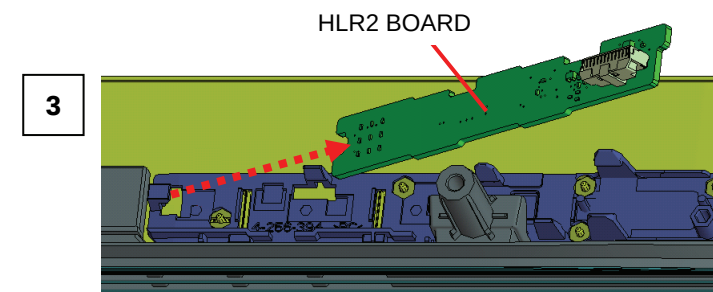
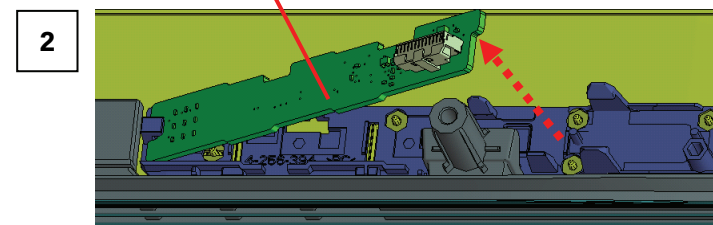
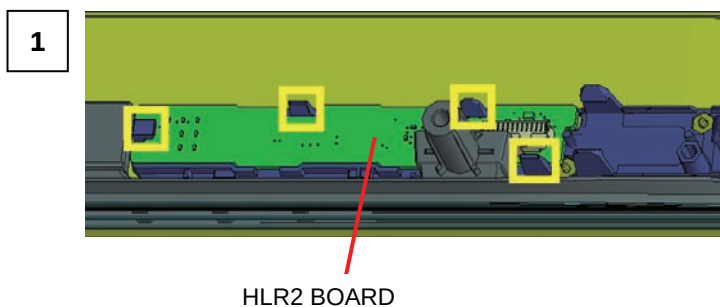
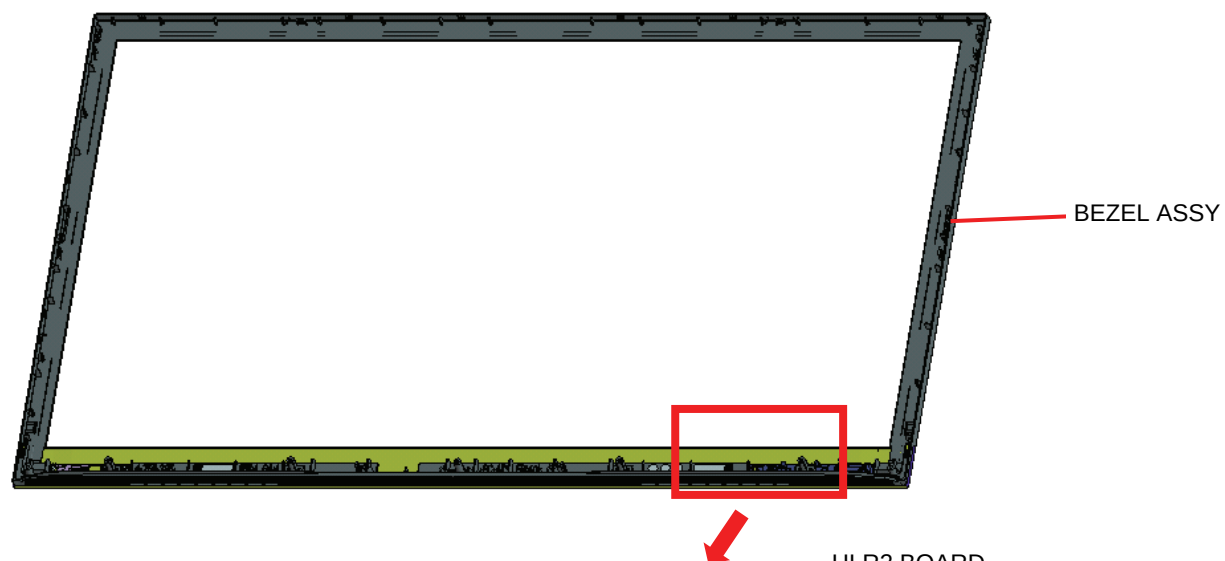
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-12. PANEL BRACKET**

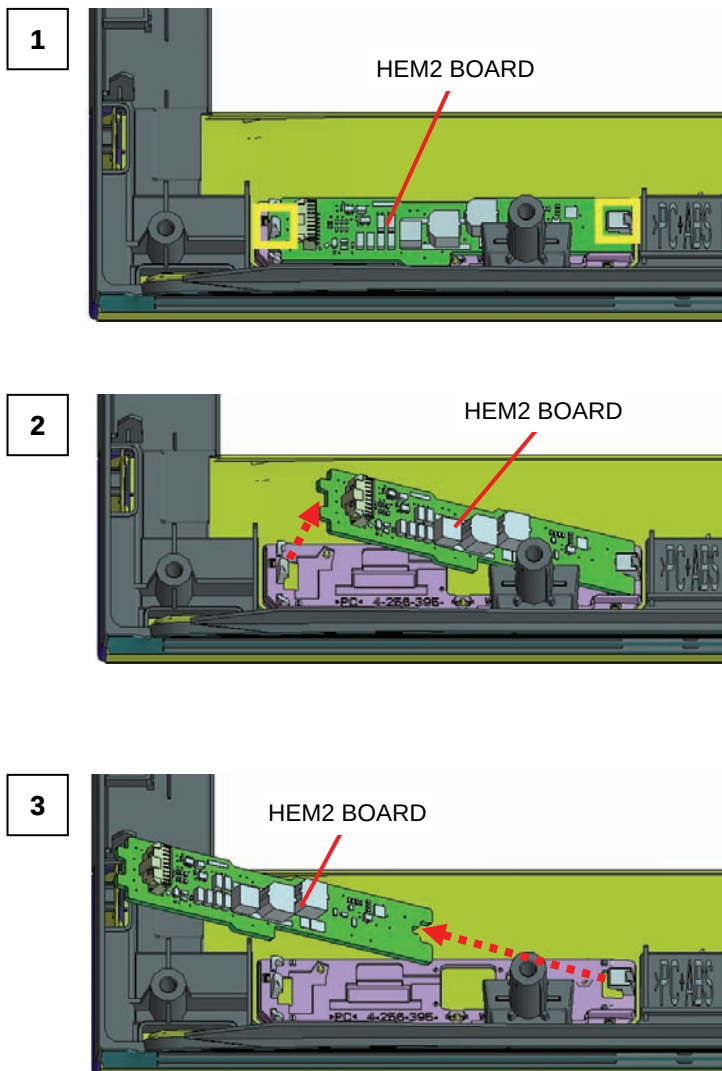
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-13. LCD PANEL****1****2**

1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-14. HMS3 BOARD AND FRENEL LENS**

1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0003779

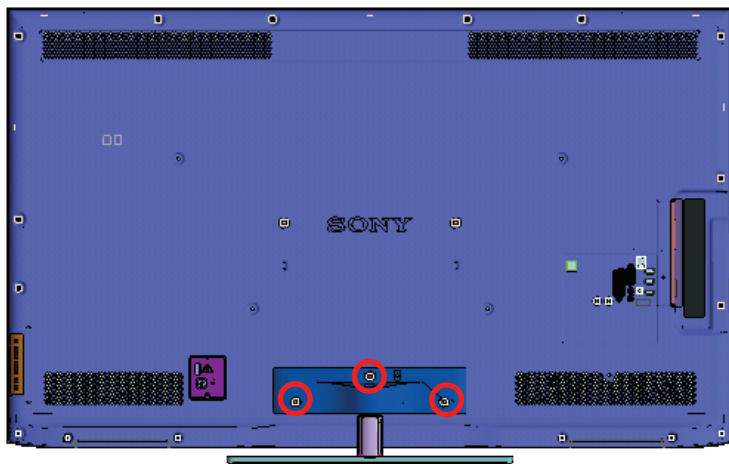


1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-15. HLR2 BOARD**

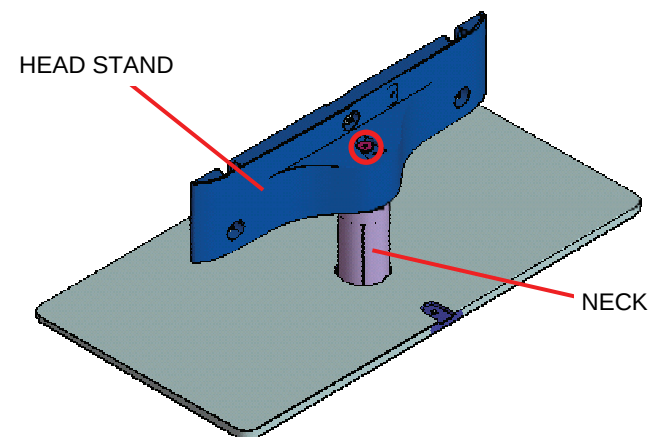
1-4. KDL-46EX720/721/723/724/725/726/727/728/729**1-4-16. HEM2 BOARD AND BEZEL ASSY**

1-5. KDL-55EX720/721/723/725

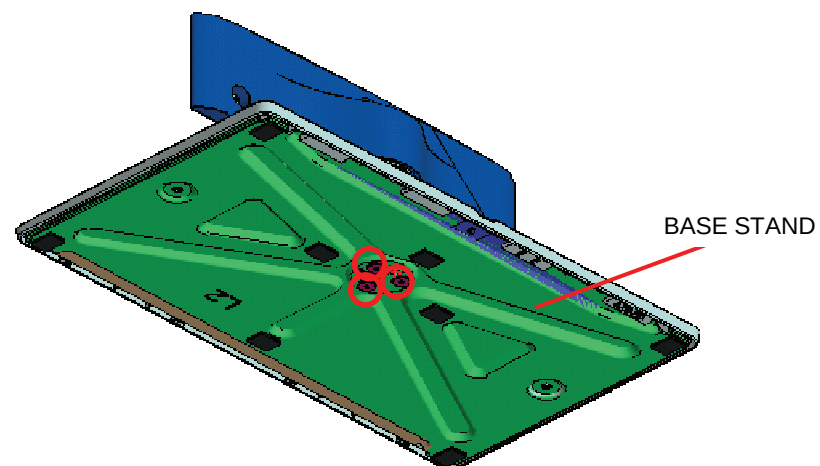
1-5-1. STAND BLOCK, HEAD STAND, NECK AND BASE STAND



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



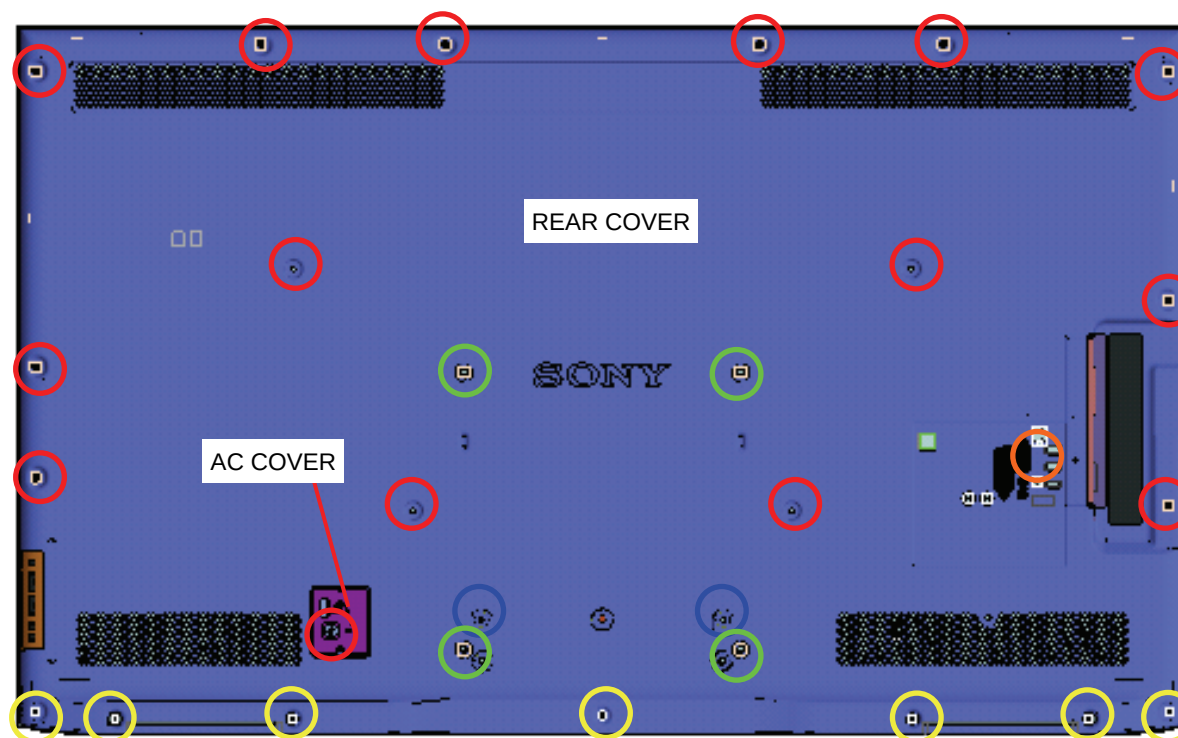
1 Screw (USER SCREW ST) – Inside bag, screw assy



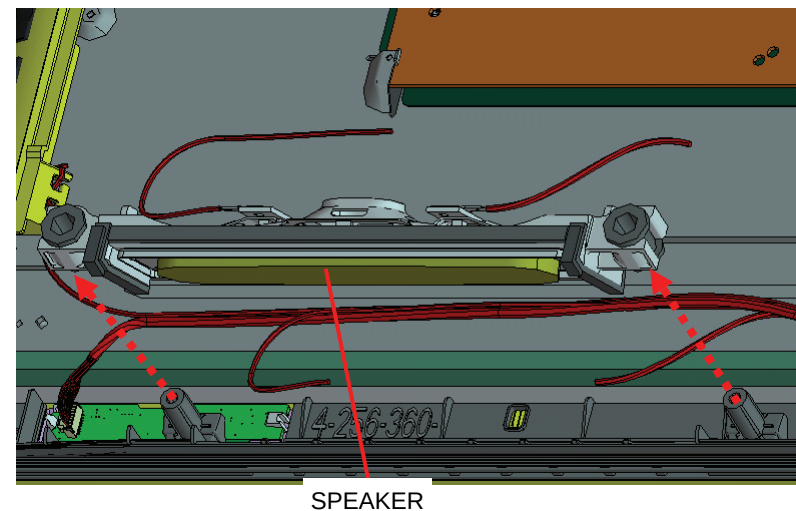
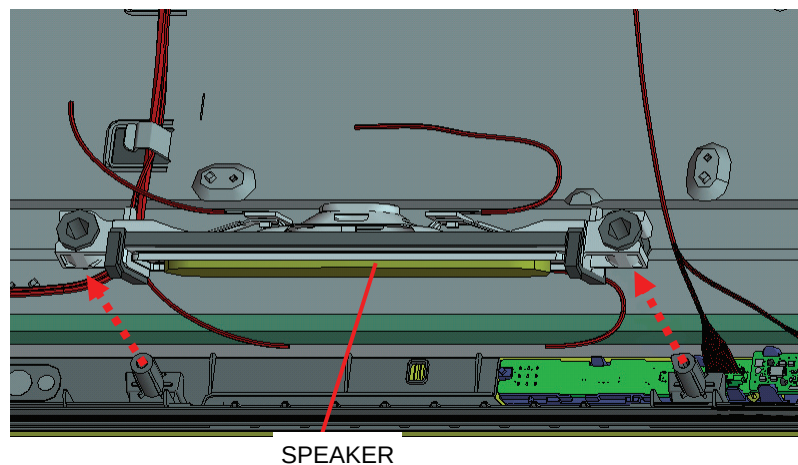
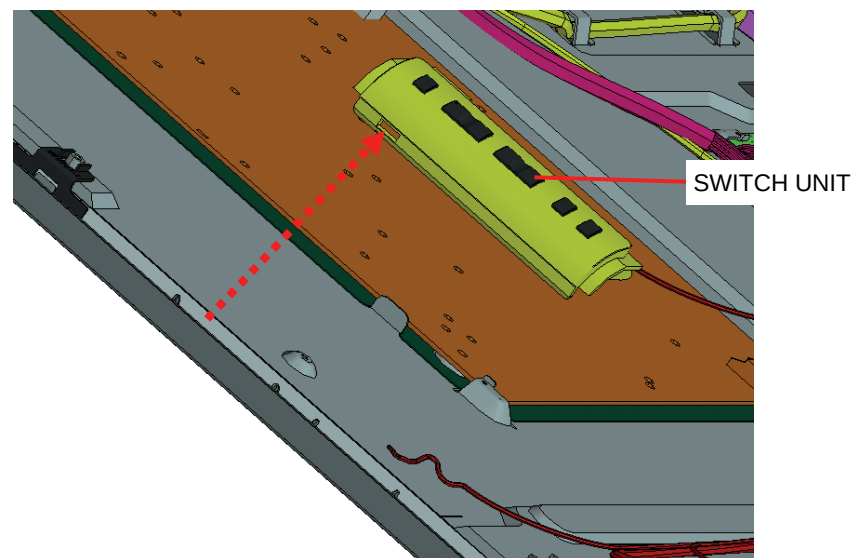
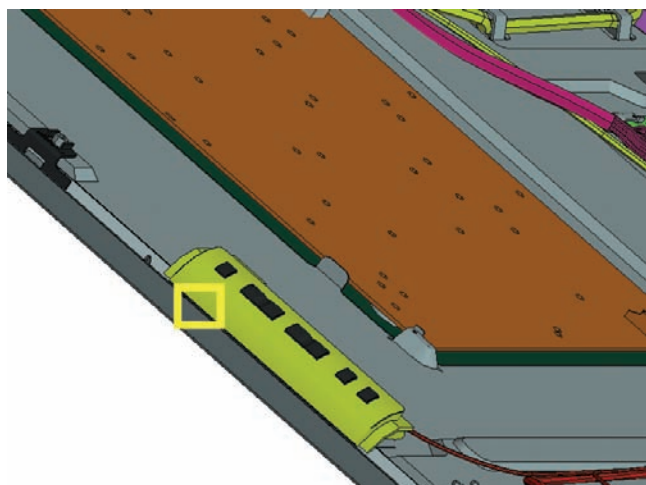
3 Screws (USER SCREW ST) – Inside bag, screw assy

1-5. KDL-55EX720/721/723/725

1-5-2. REAR COVER AND AC COVER

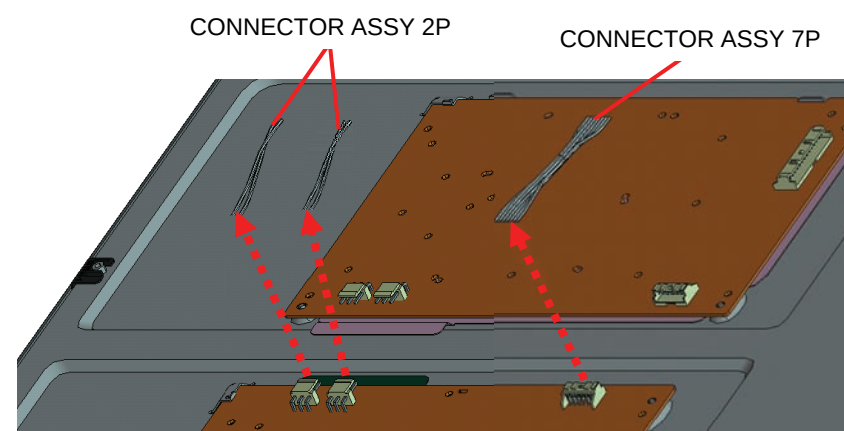
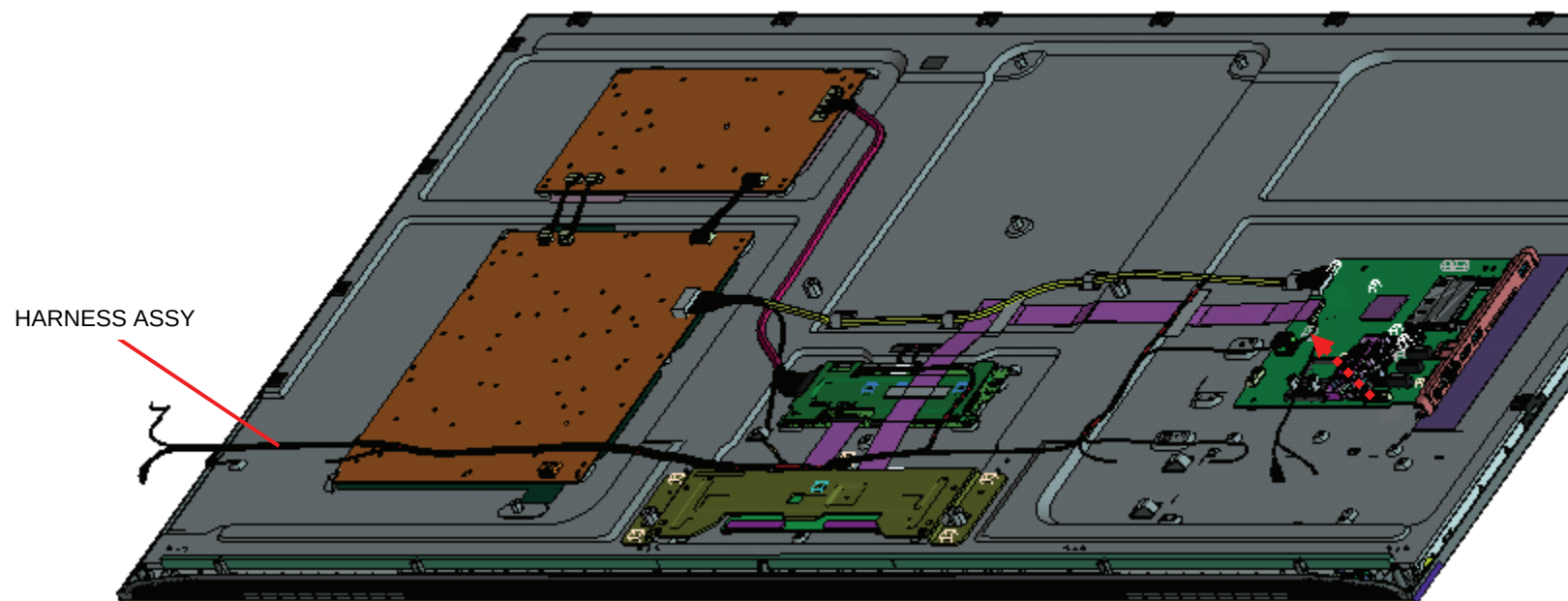


- 15 Screws (SCREW, +PSW M3X6 W12) P/N: FX0001901
- 7 Screws (SCREW, +BVTP 4X12 TYPE2 IT-3) P/N: FX0005801
- 4 Screws (SCREW, ORNAMENTAL M6X12) P/N: FX0006301
- 1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0003779
- 2 Screws (JOINT, STAND) P/N: FX0002101

1-5. KDL-55EX720/721/723/725**1-5-3. SWITCH UNIT AND SPEAKER**

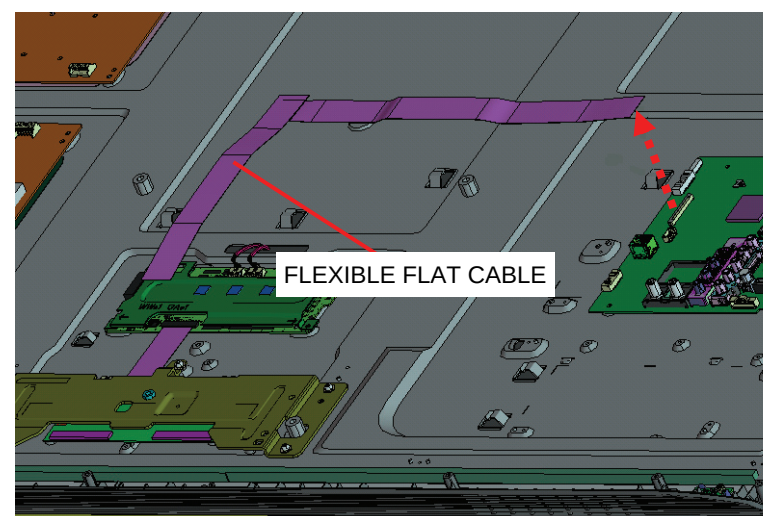
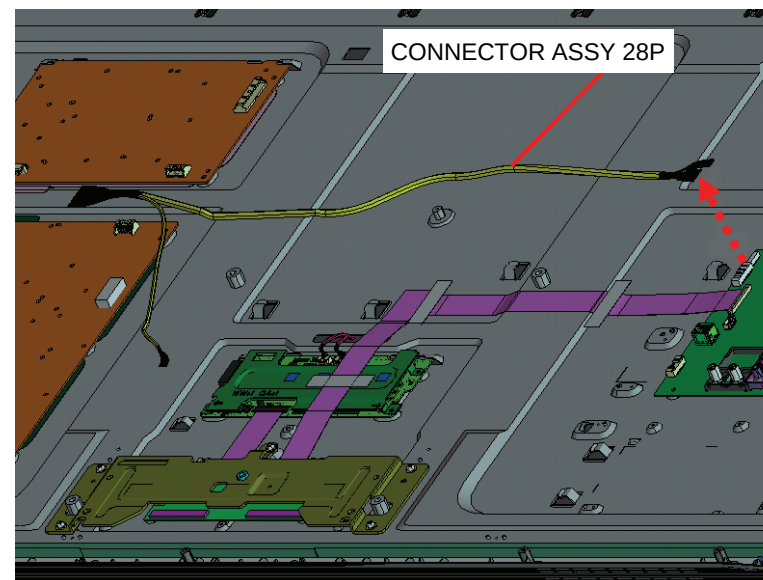
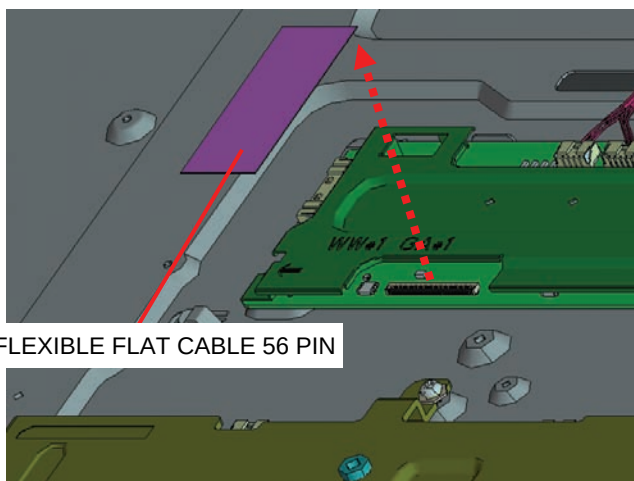
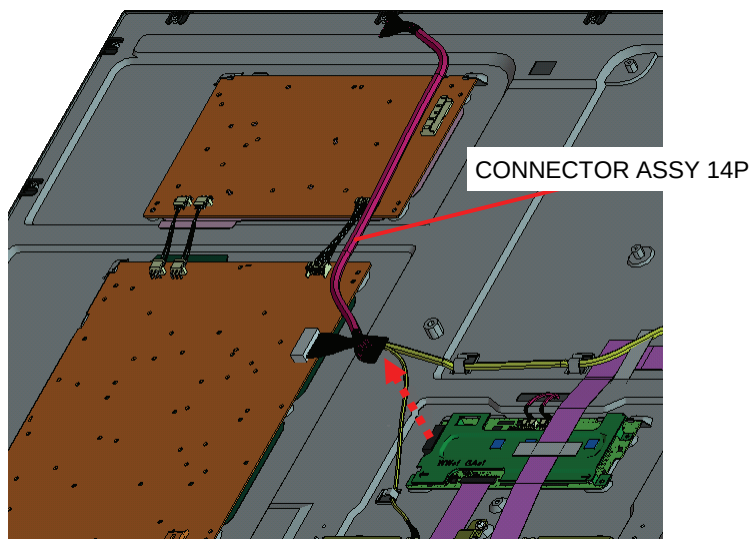
1-5. KDL-55EX720/721/723/725

1-5-4. HARNESS-1



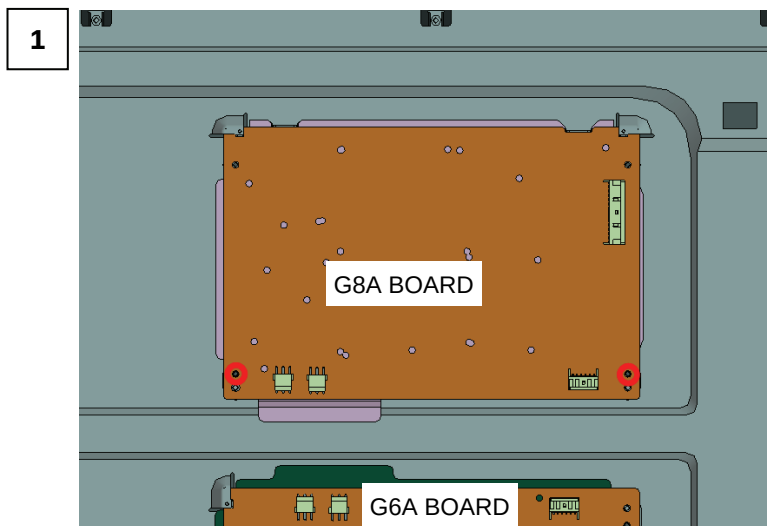
1-5. KDL-55EX720/721/723/725

1-5-5. HARNESS-2

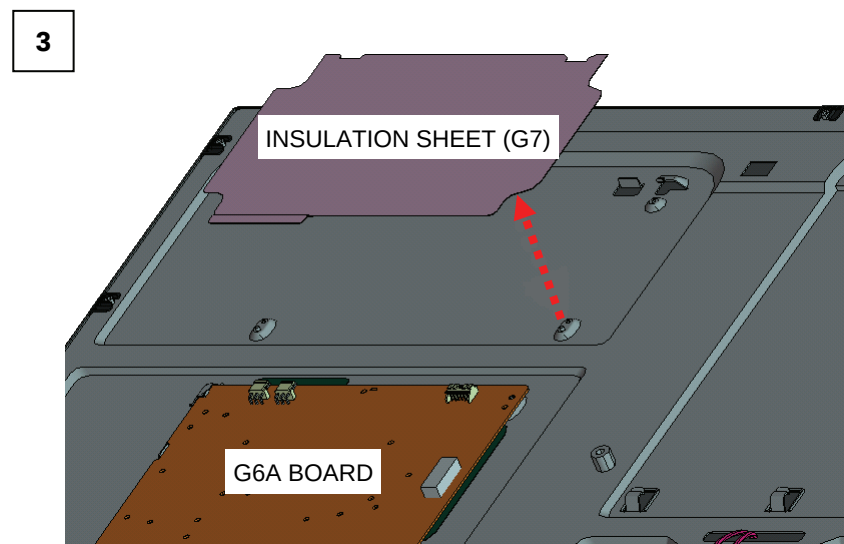
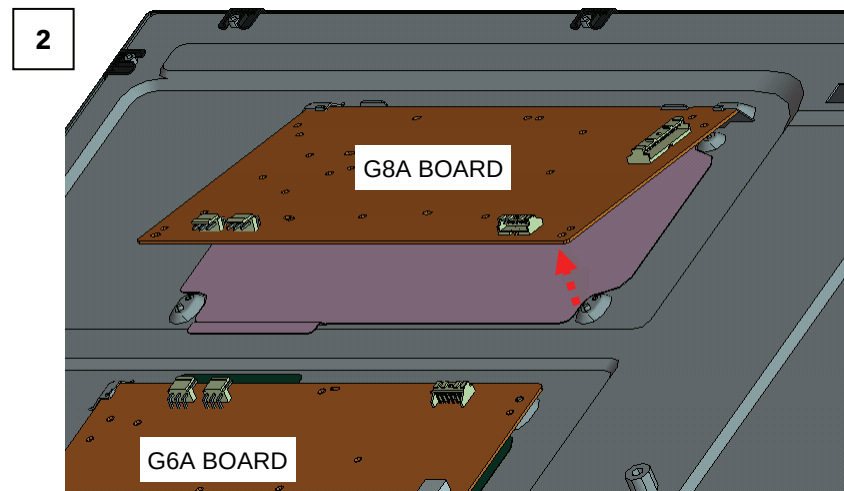


1-5. KDL-55EX720/721/723/725

1-5-6. G8A BOARD

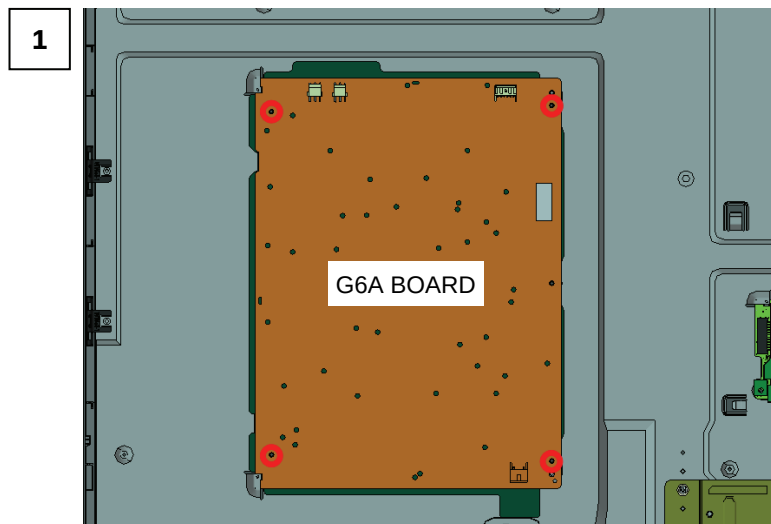


4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

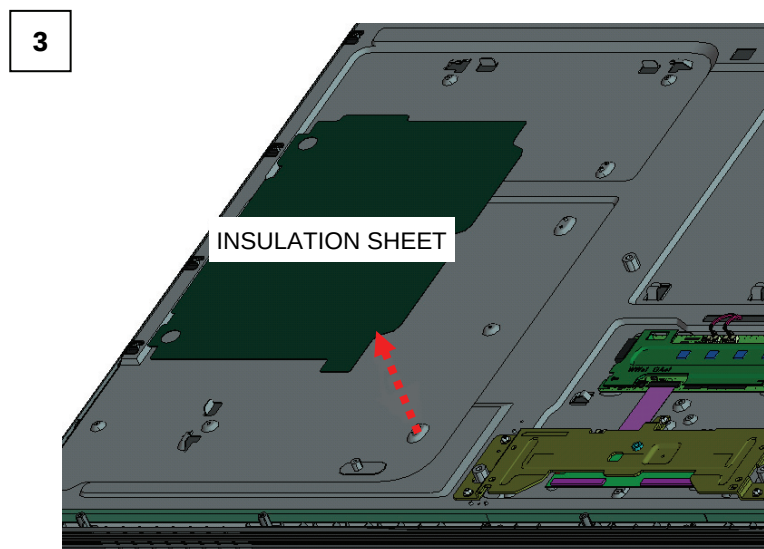
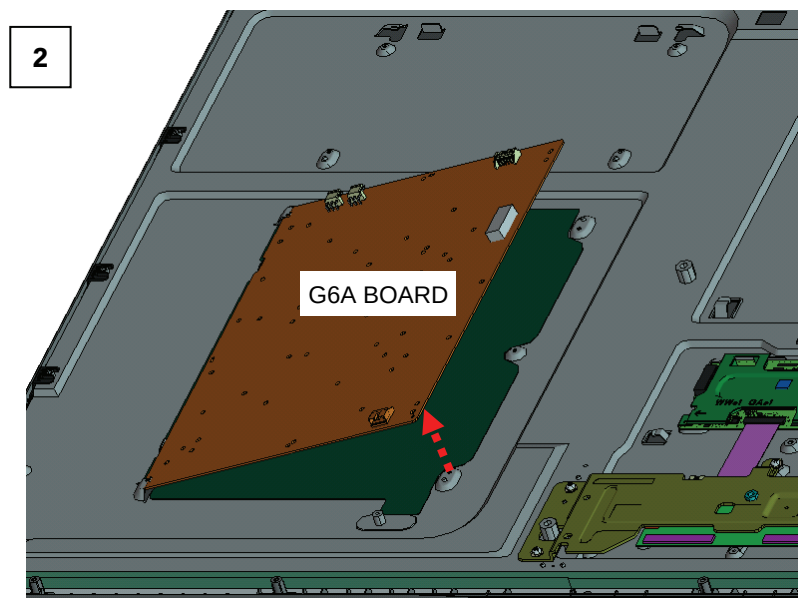


1-5. KDL-55EX720/721/723/725

1-5-7. G6A BOARD

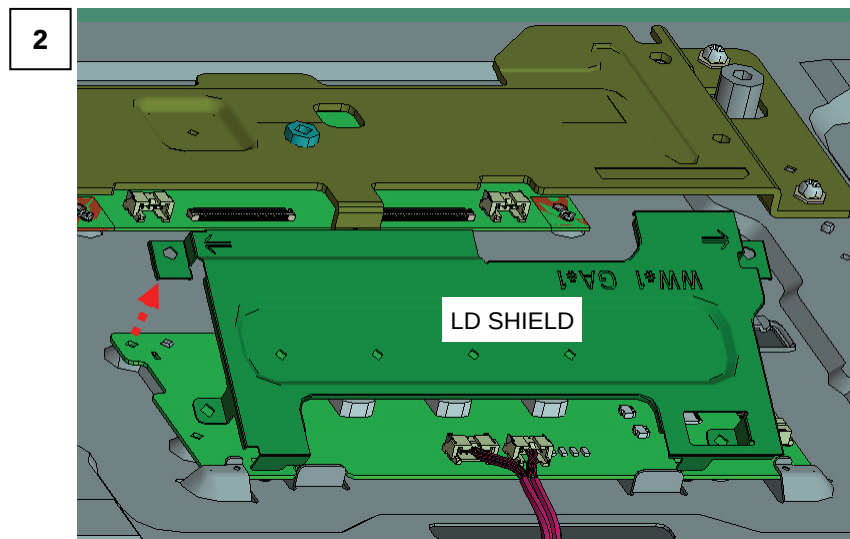
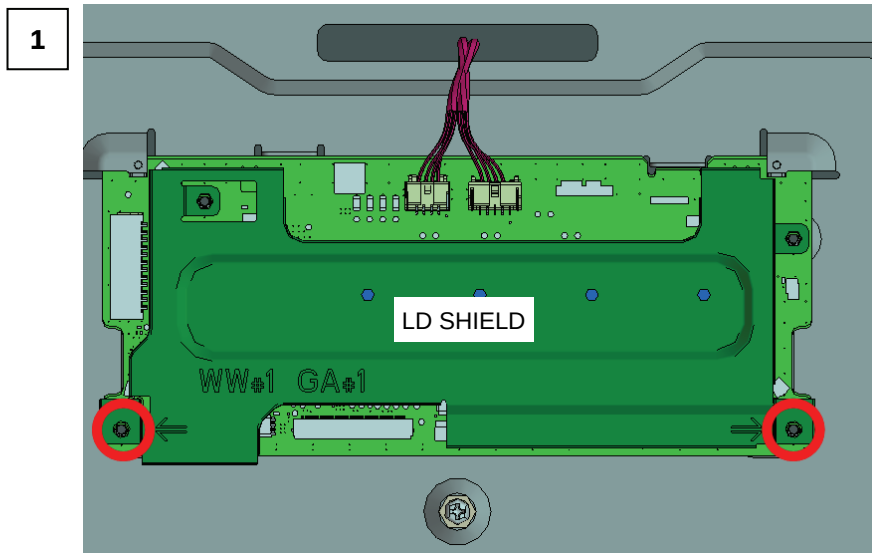


4 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

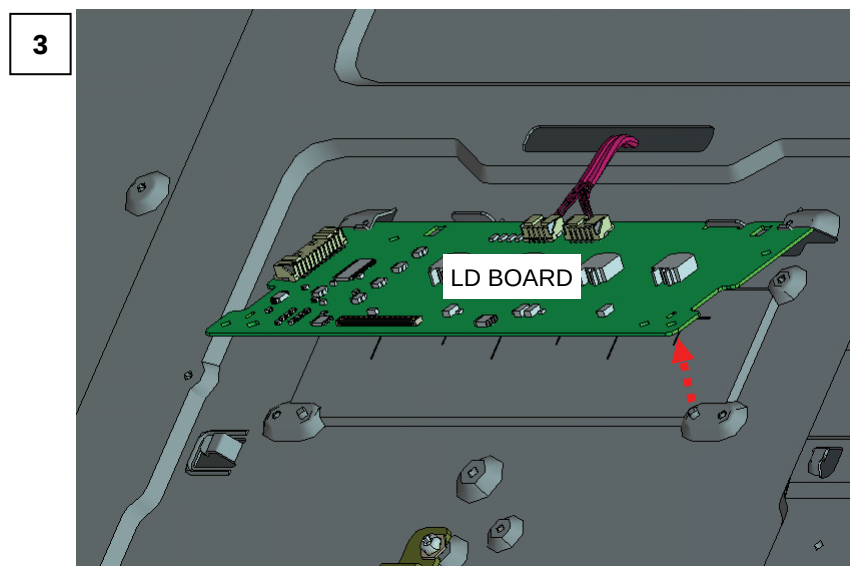


1-5. KDL-55EX720/721/723/725

1-5-8. LD BOARD

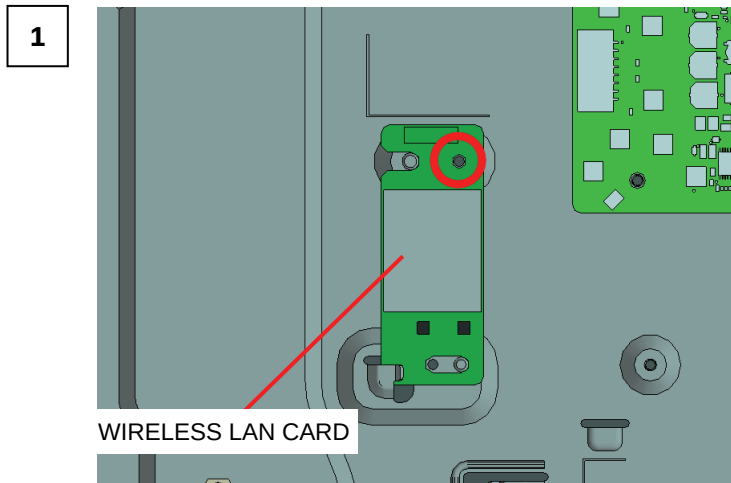


2 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341

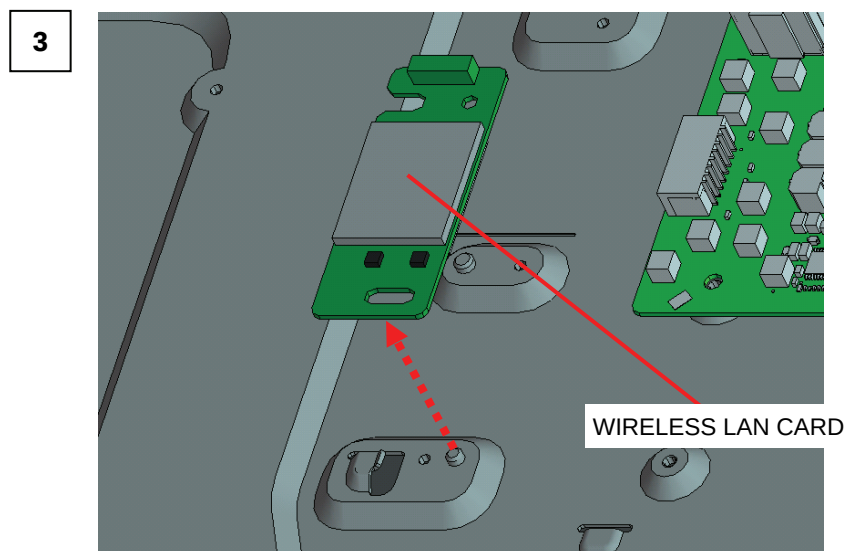
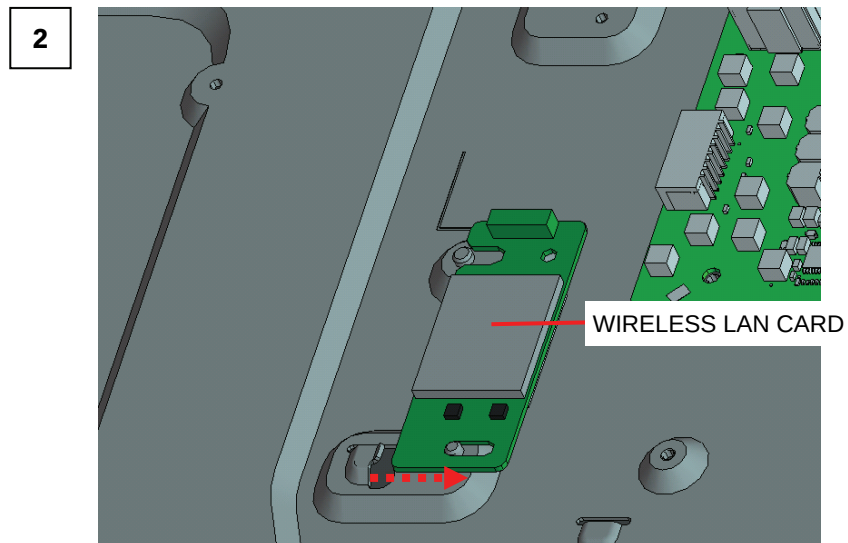


1-5. KDL-55EX721

1-5-9. WIRELESS LAN CARD

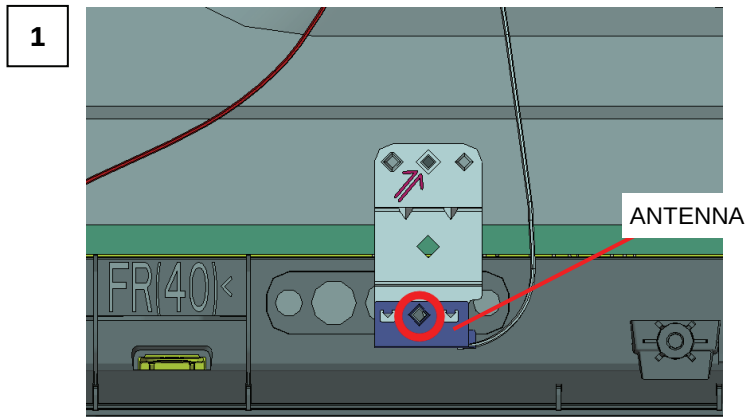


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

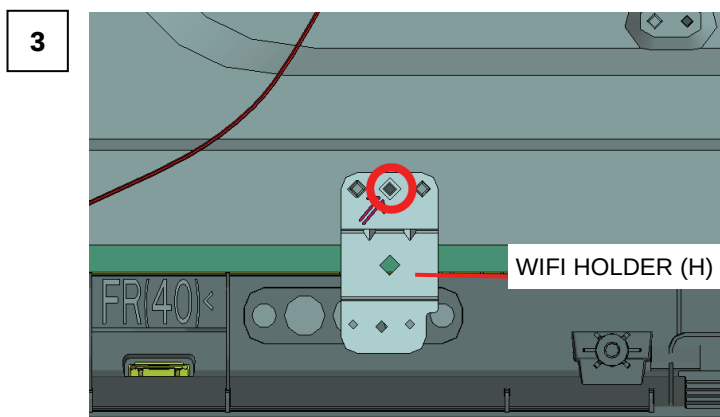
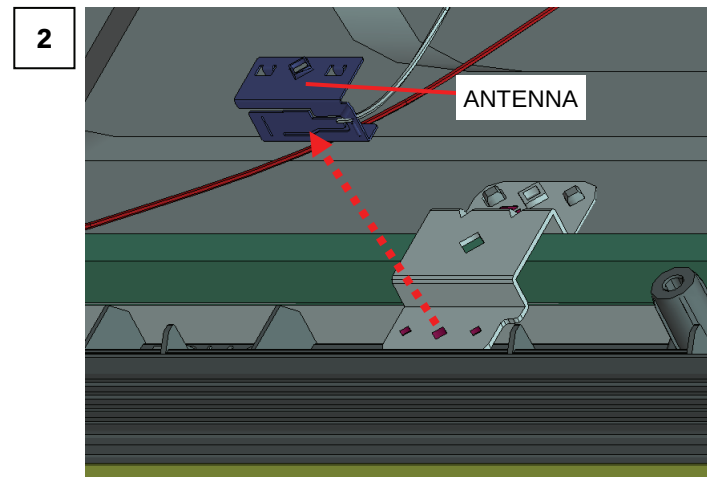


1-5. KDL-55EX721

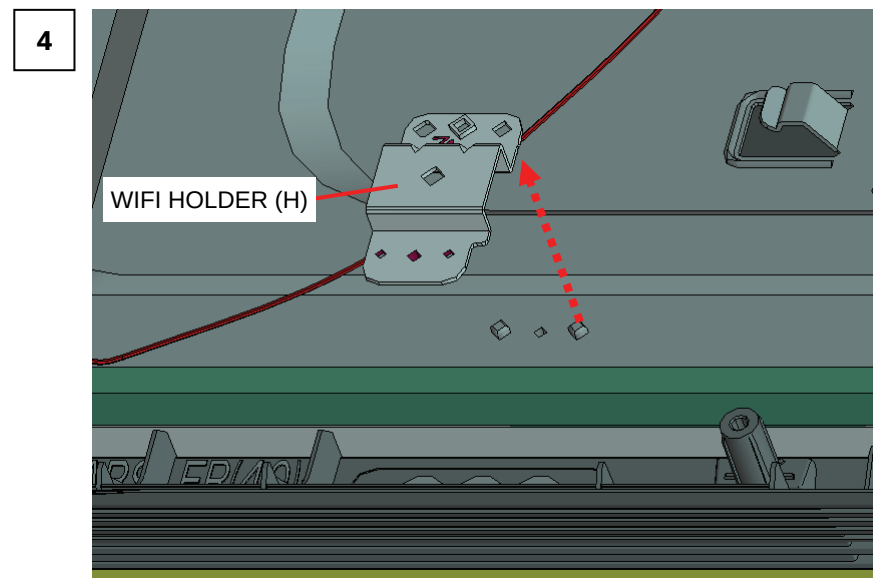
1-5-10. ANTENNA AND WIFI HOLDER (H)-1



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

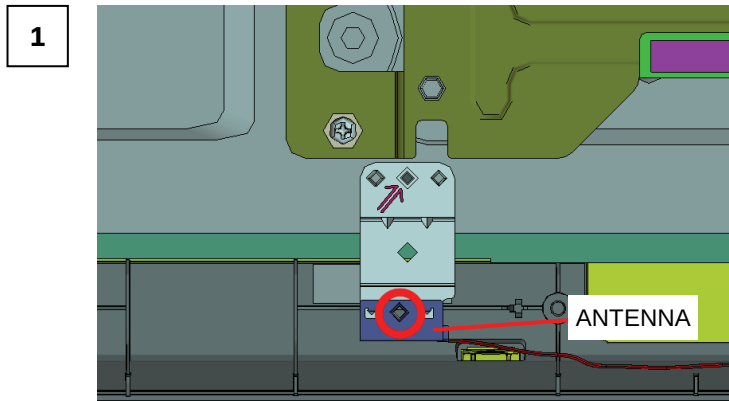


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

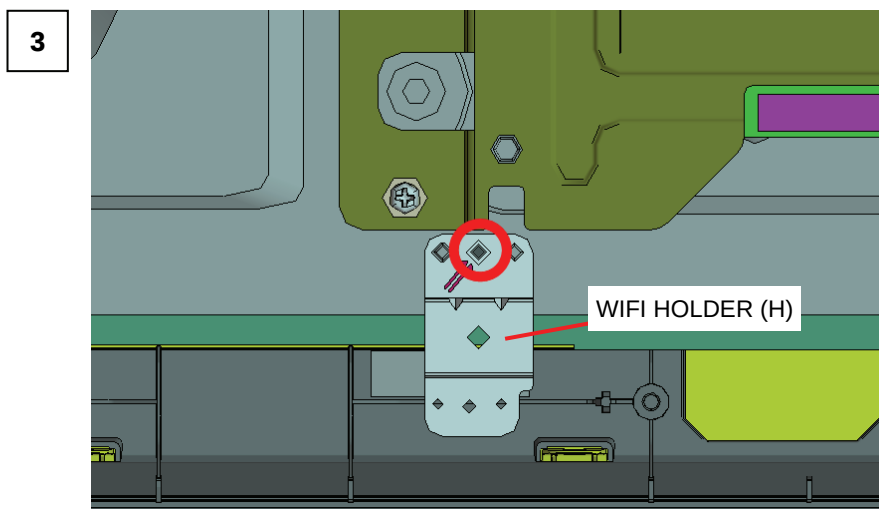
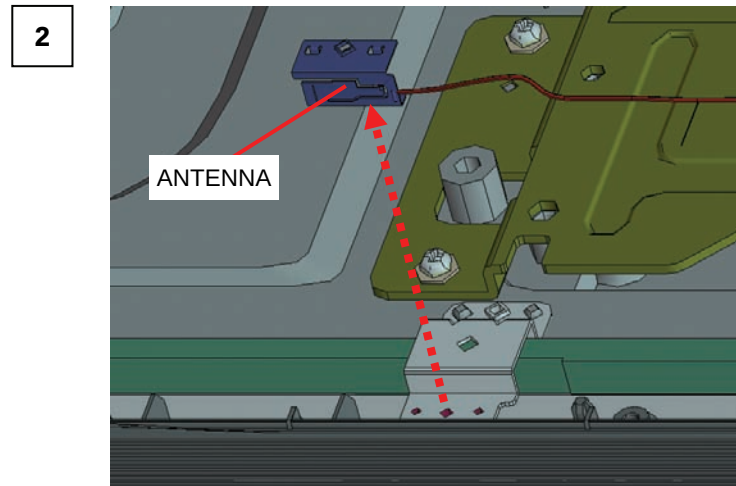


1-5. KDL-55EX721

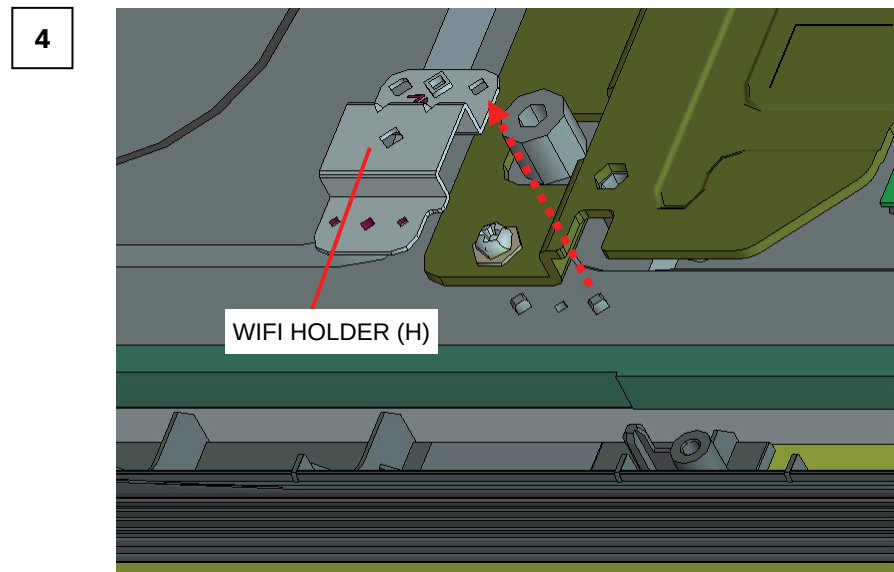
1-5-11. ANTENNA AND WIFI HOLDER (H)-2

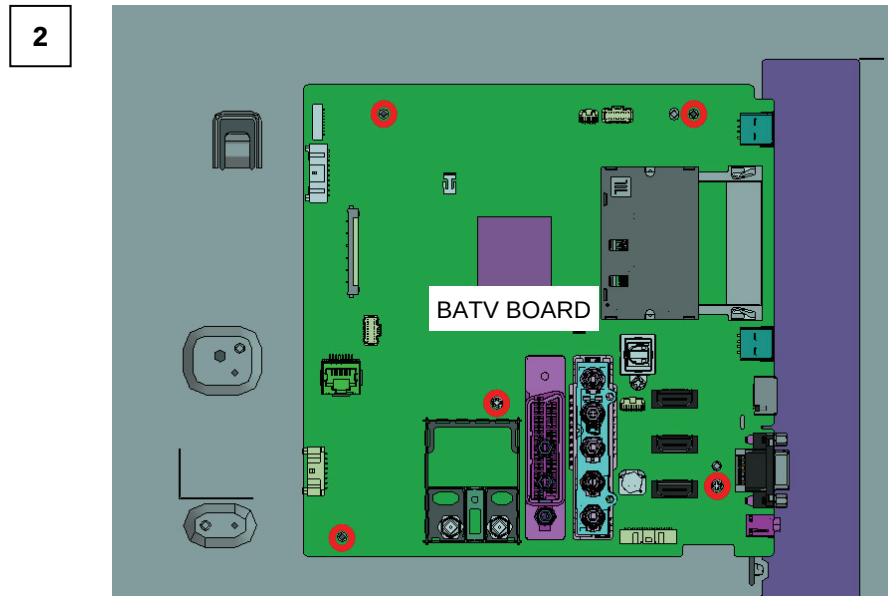
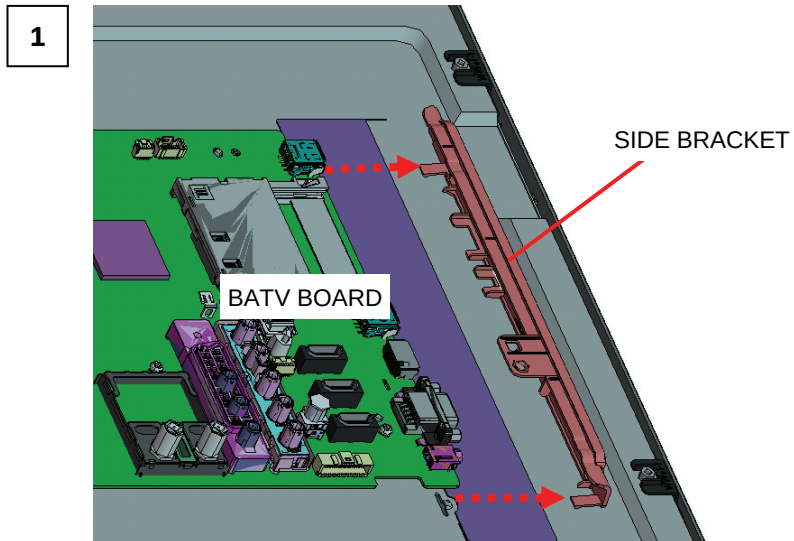


1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

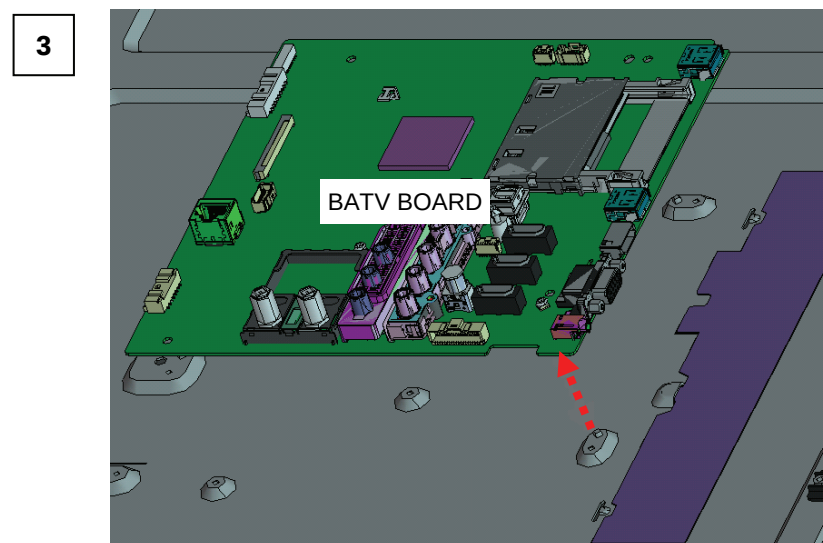


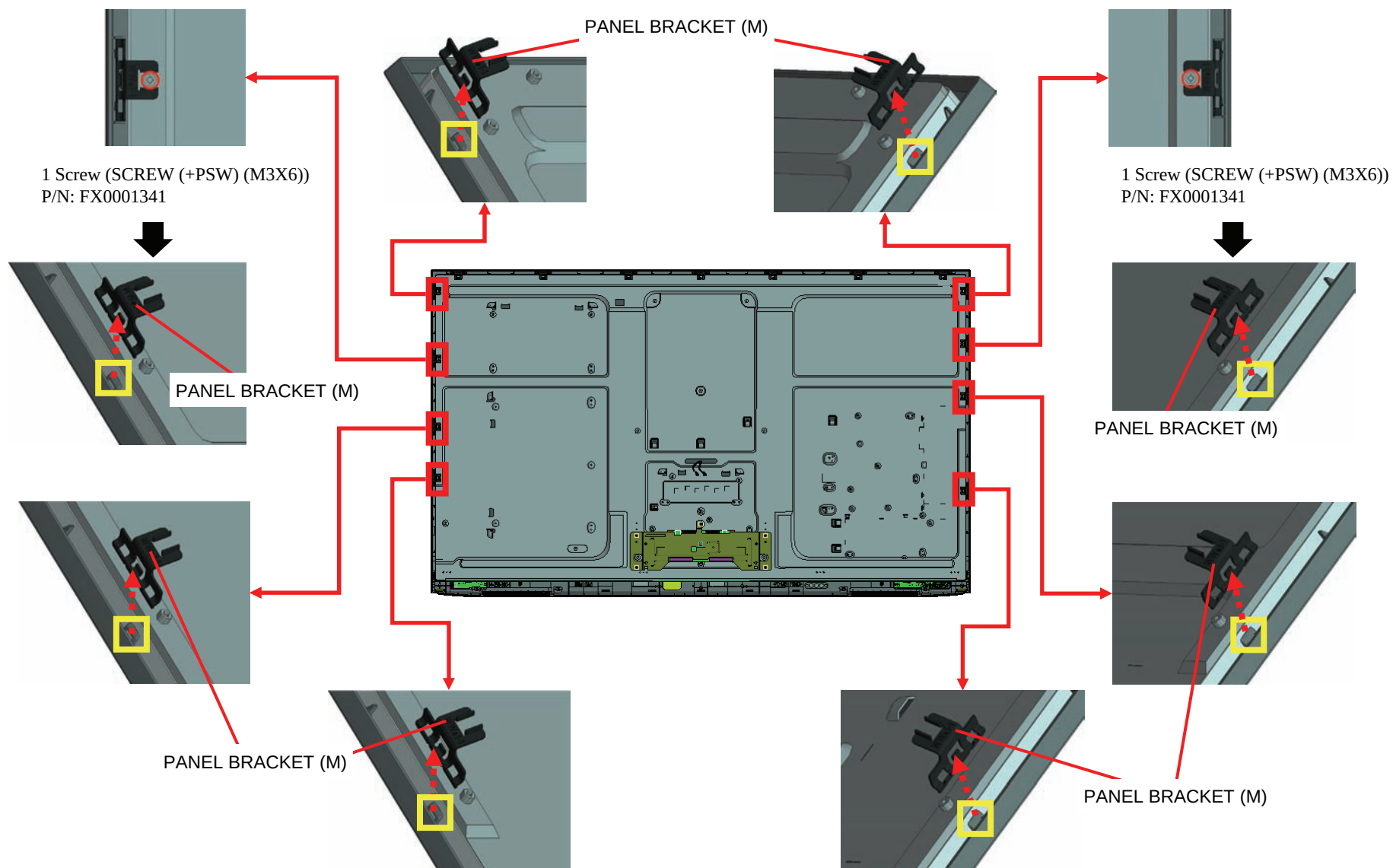
1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

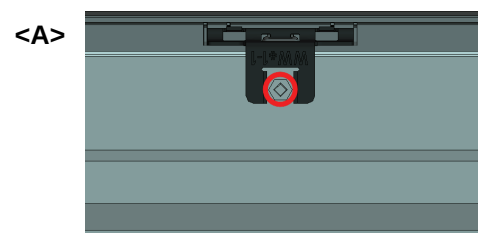
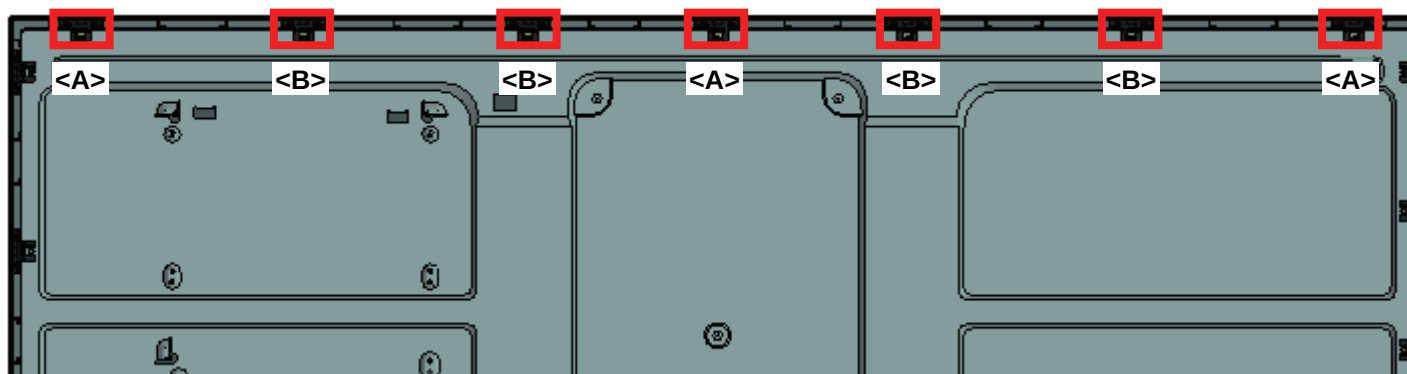


1-5. KDL-55EX720/721/723/725**1-5-12. SIDE BRACKET AND BATV BOARD**

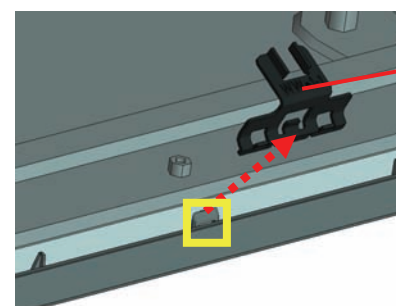
5 Screws (SCREW (+PSW) (M3X6)) P/N: FX0001341



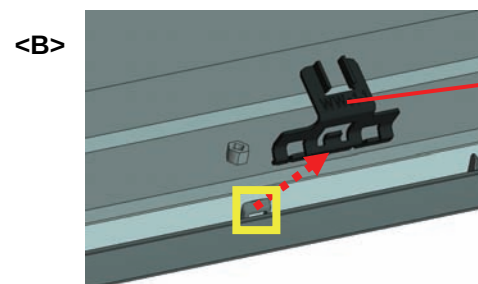
1-5. KDL-55EX720/721/723/725**1-5-13. PANEL BRACKET (M)-1**

1-5. KDL-55EX720/721/723/725**1-5-14. PANEL BRACKET (M)-2**

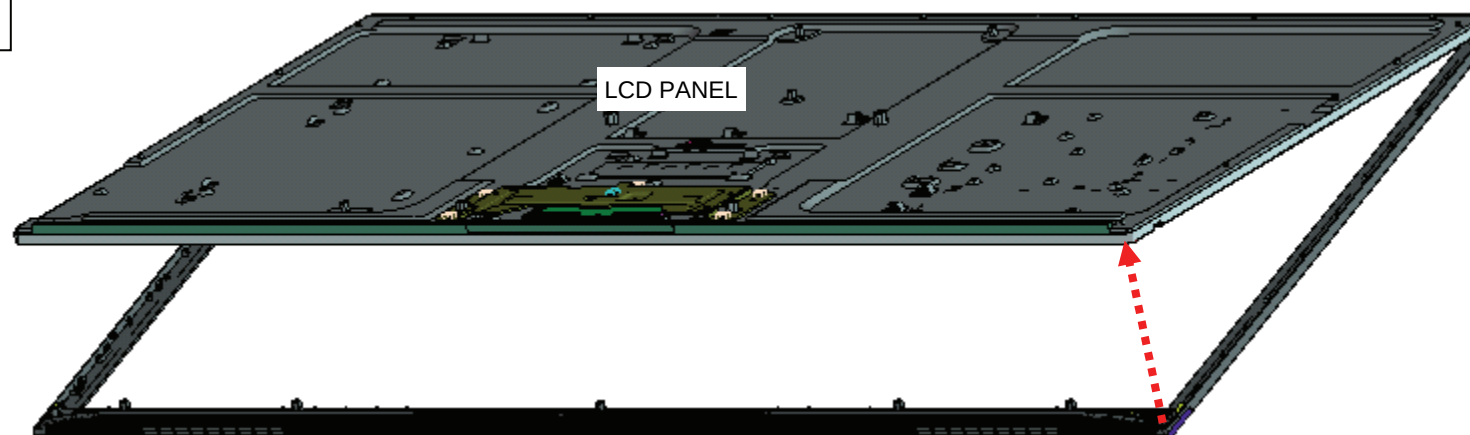
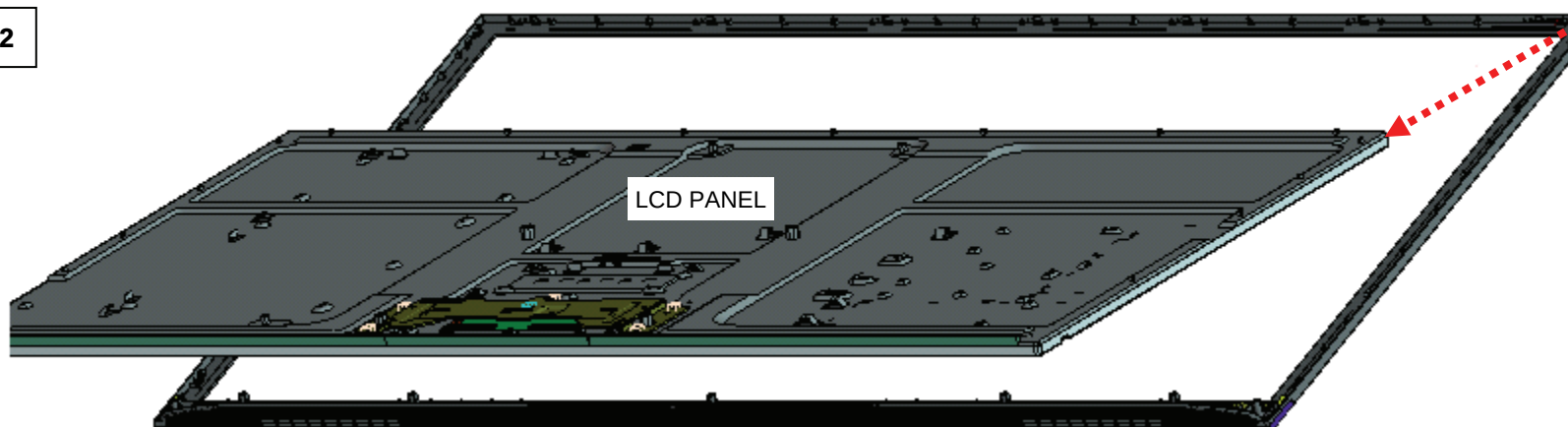
1 Screw (SCREW (+PSW) (M3X6)) P/N: FX0001341

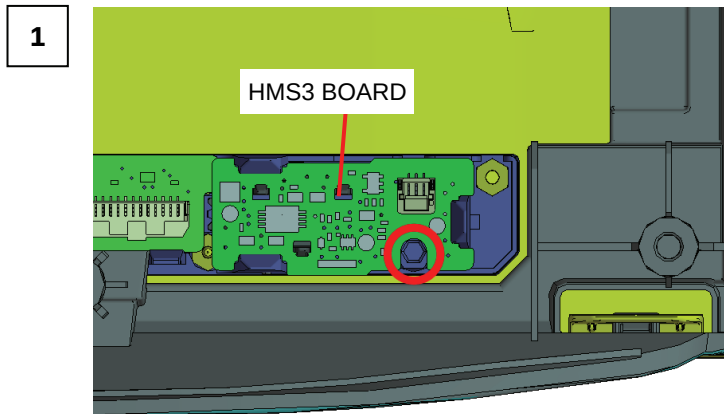


PANEL BRACKET (M)

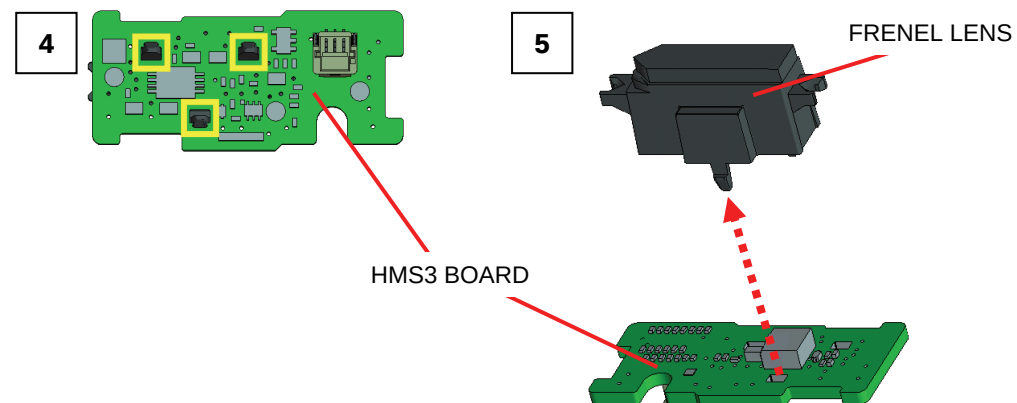
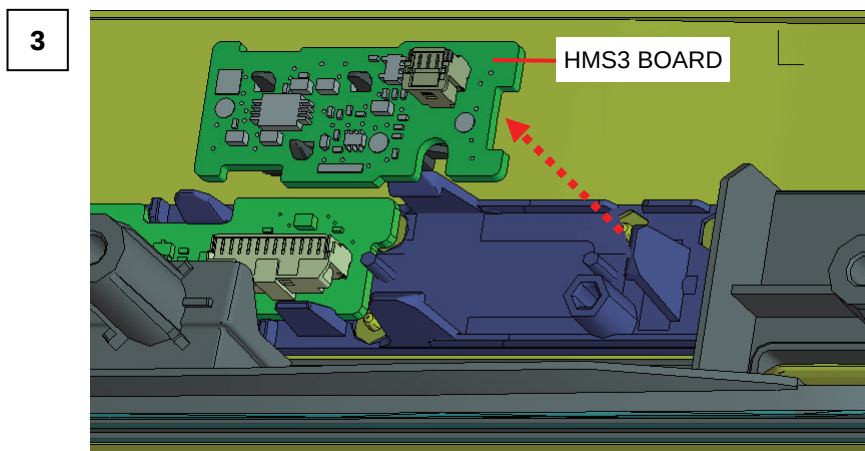
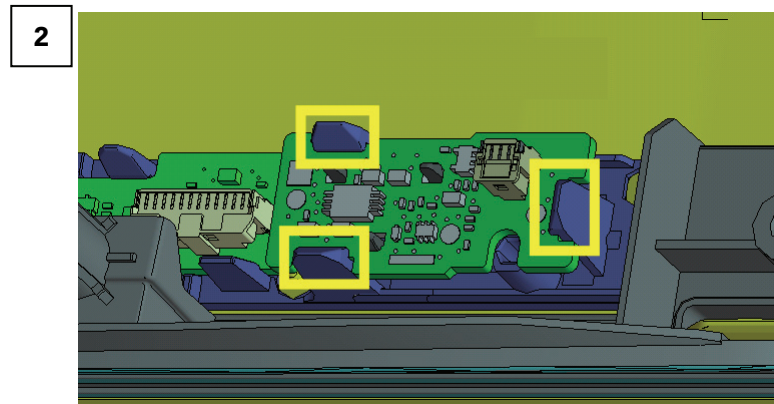


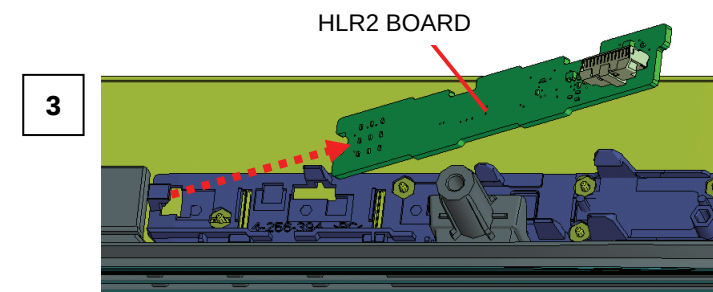
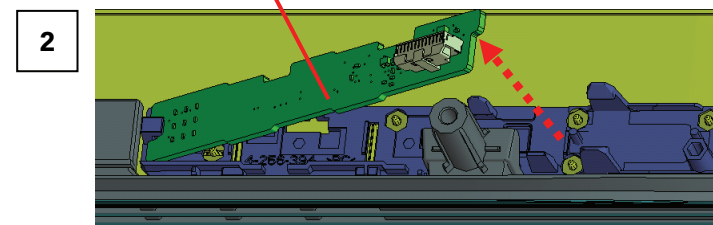
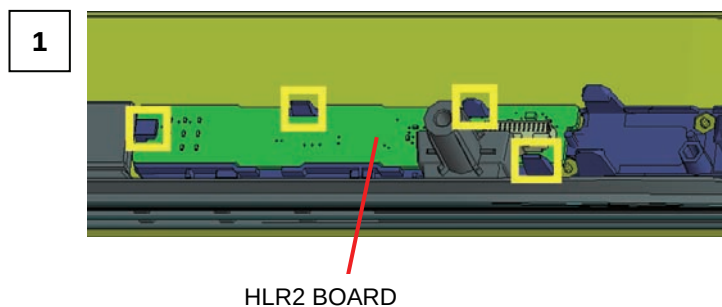
PANEL BRACKET (M)

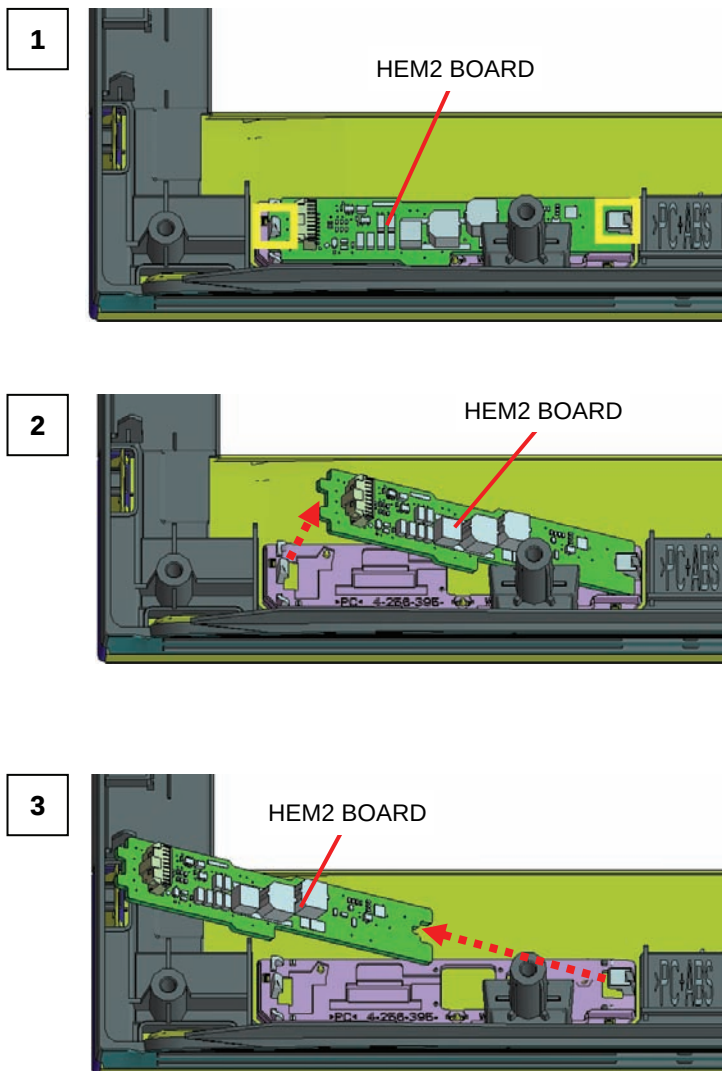
1-5. KDL-55EX720/721/723/725**1-5-15. LCD PANEL****1****2**

1-5. KDL-55EX720/721/723/725**1-5-16. HMS3 BOARD AND FRENEL LENS**

1 Screw (SCREW +BVTP 3X8 TYPE2 IT-3) P/N: FX0003779



1-5. KDL-55EX720/721/723/725**1-5-17. HLR2 BOARD**

1-5. KDL-55EX720/721/723/725**1-5-18. HEM2 BOARD AND BEZEL ASSY**

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”

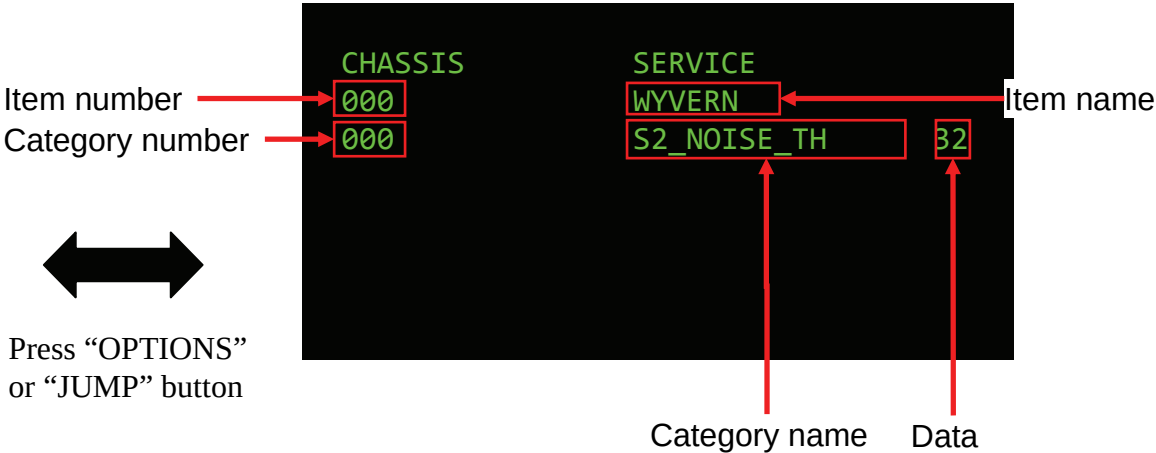
DIGITAL

001 OP
000 VERS

<MAIN>
DM1.301W00AA
WF1.003W00AA
DF1.001W00AA
YM1.010W00AA
DB2.105W00AA
(DM1.301W00AA)
DD1.016W00AA
WP0.521W00AA
MID:1C117081
PID:04020000
PNL:LTY320AB01
POP:X.XXX

<EXT>
RF:01.05
WF:2.0.0.99
WF:0B
CAM:X.XXX
FD:XXXX

<PEM>
PM1.012W00LU
PB1.000W00LU
PL1.011J46LUX
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)

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

VPC	SERVICE	
006	WB	
000	R_DRV	128

VPC	SERVICE	
006	WB	
003	R_BKG	128

VPC	SERVICE	
006	WB	
001	G_DRV	128

VPC	SERVICE	
006	WB	
004	G_BKG	128

VPC	SERVICE	
006	WB	
002	B_DRV	128

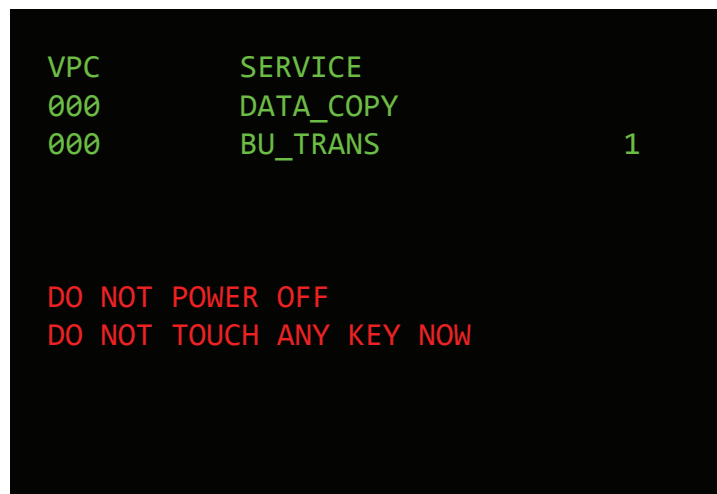
VPC	SERVICE	
006	WB	
005	B_BKG	128

RESTORE WHITE BALANCE / GAMMA ADJ-DATA TO B BOARD

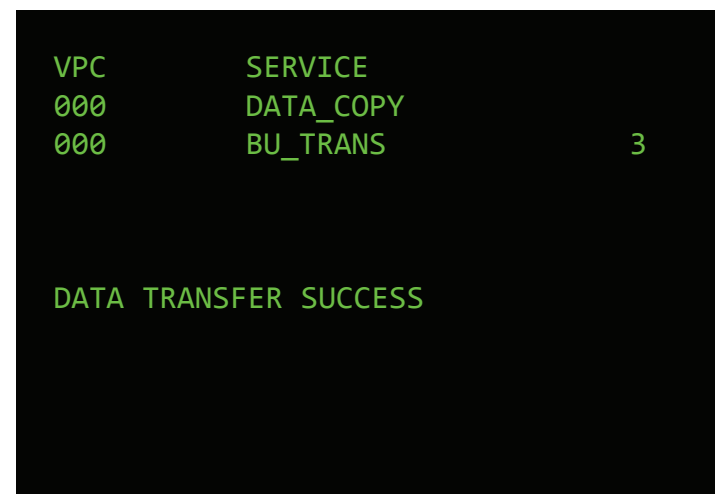
Note: Please apply after USB-DL when B board is replaced.

Change Data of “VPC” service mode.

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



<Restore process>



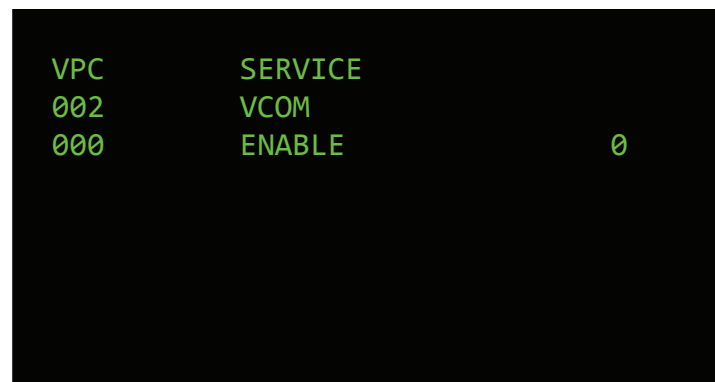
<End restore process>

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

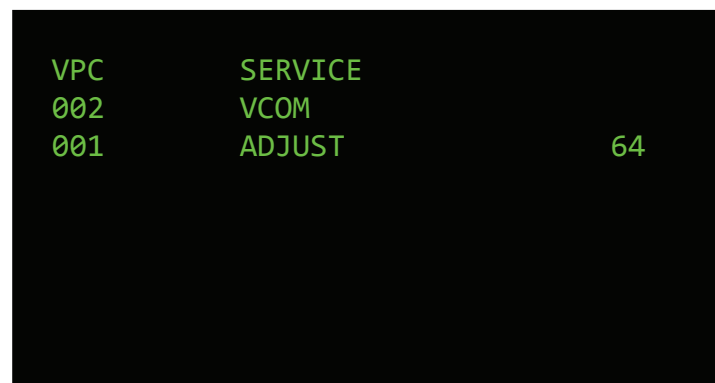
Note: Please execute this adjustment if necessary.

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

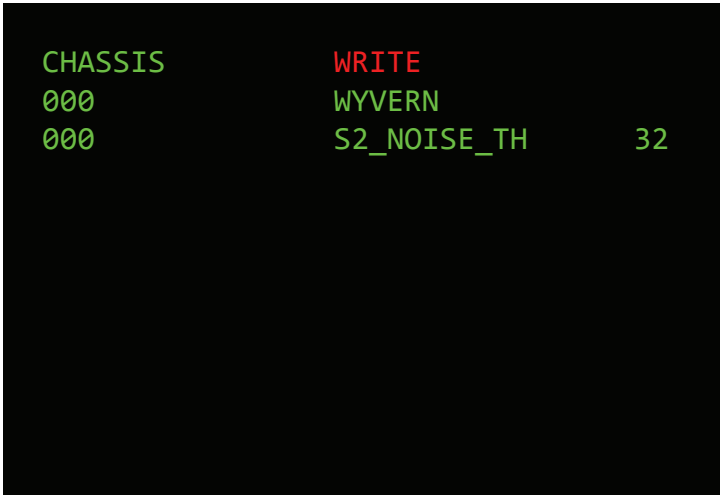
a. Press “Mute” on remote.

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

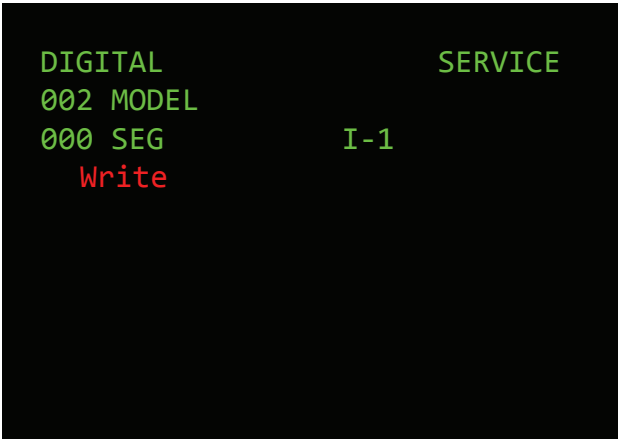
004 SERIAL ----- Can be set only once for the new board

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.



```
DIGITAL                SERVICE
002 MODEL
000 SEG                I-1
  Write
```

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.

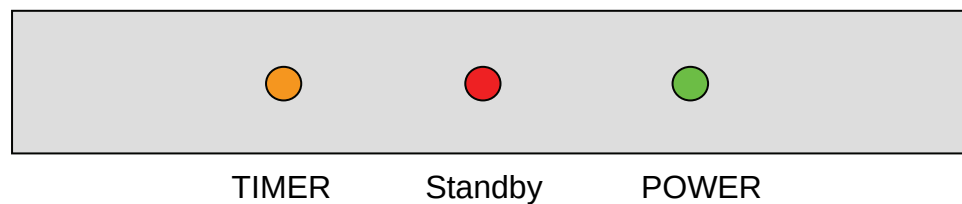
Added green **“EXE”** after green **“RST-”**.

- 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.

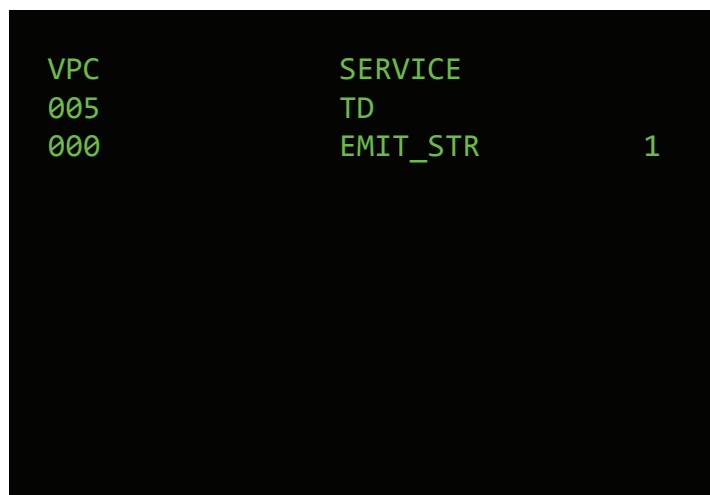
-> “Cursor Up” on remote + “Power Key” on Front panel.

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.



SEC 3. TROUBLE SHOOTING

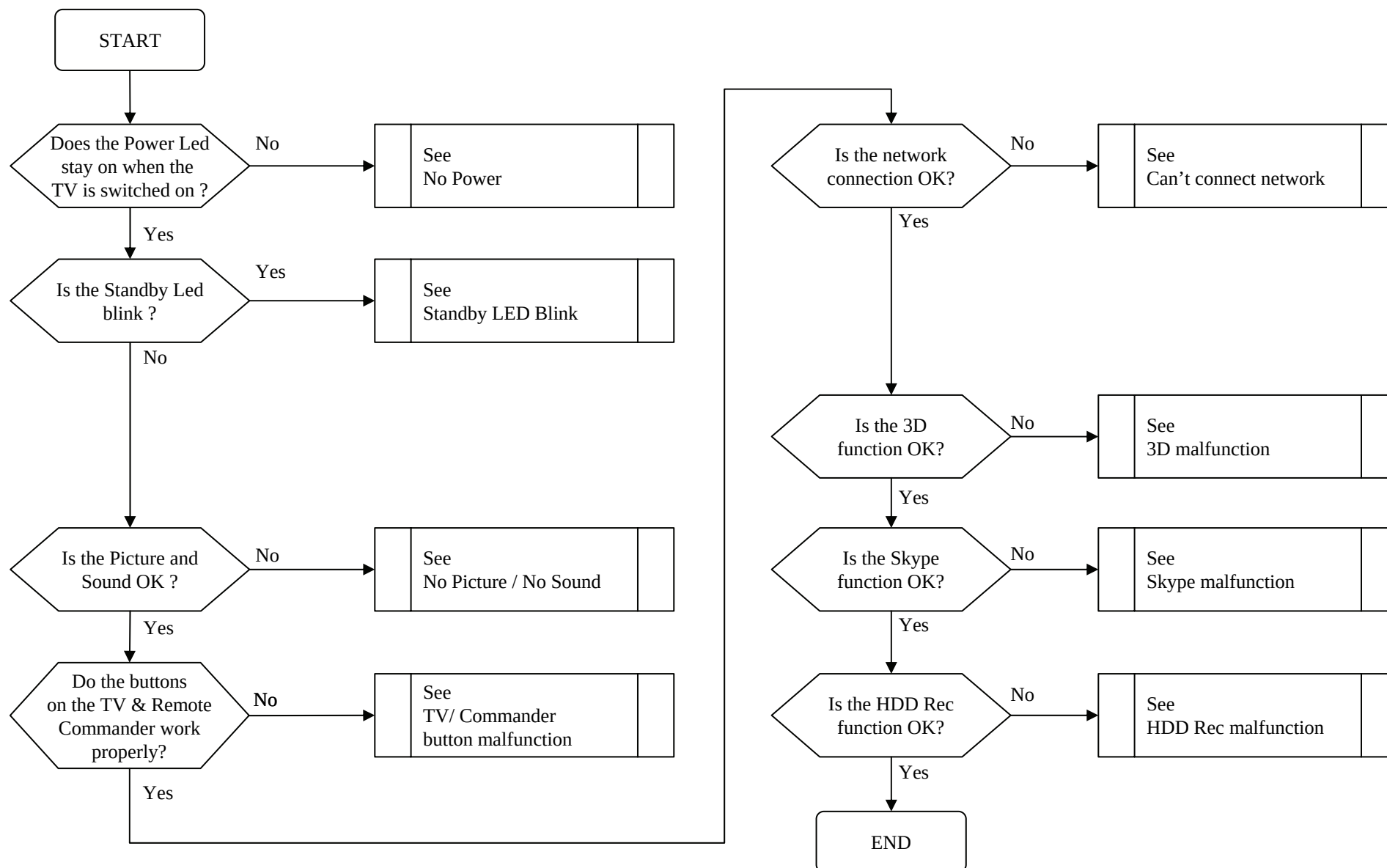
3-1. TRIAGE CHART

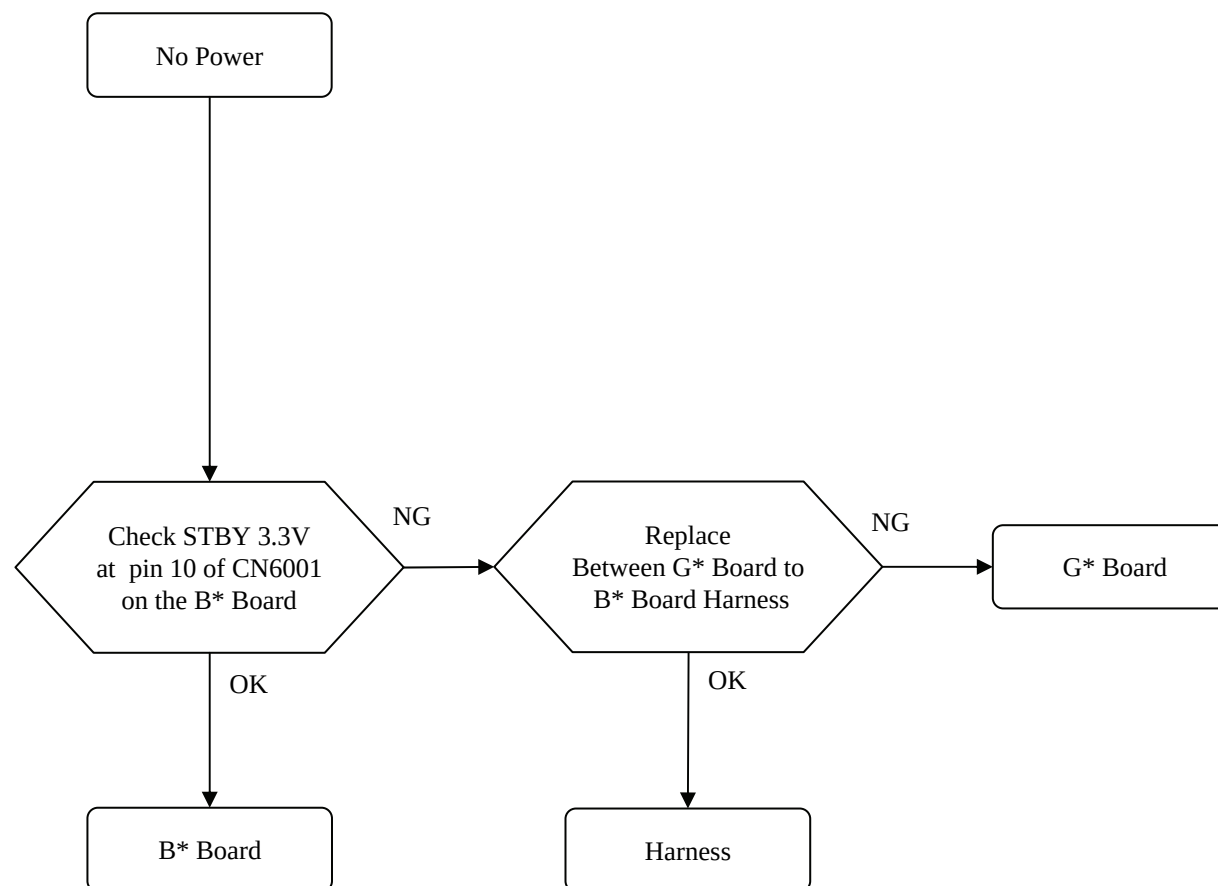
Note: Power board is different in name every inch. Therefore this section displays difference point in "**".

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
BATV BOARD	▲	●	▲	▲	▲	●	●		▲	▲	●	●	▲	▲	●	▲
G* BOARD	●	▲	▲	▲	●				●						▲	
HLR2 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

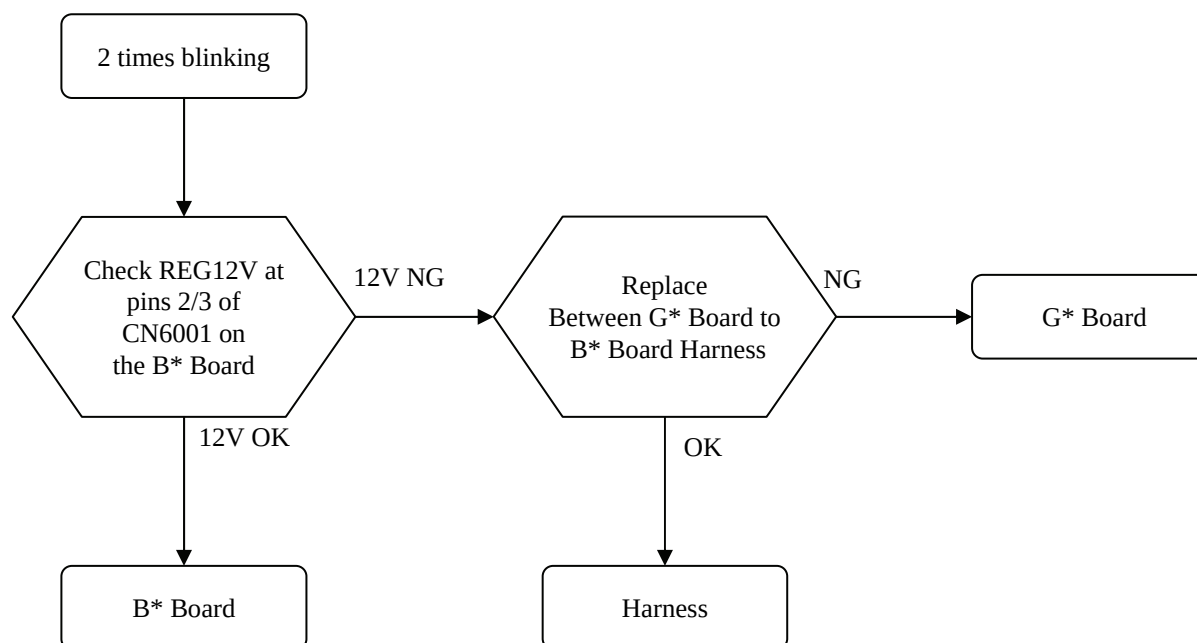
3-2. FLOW CHART



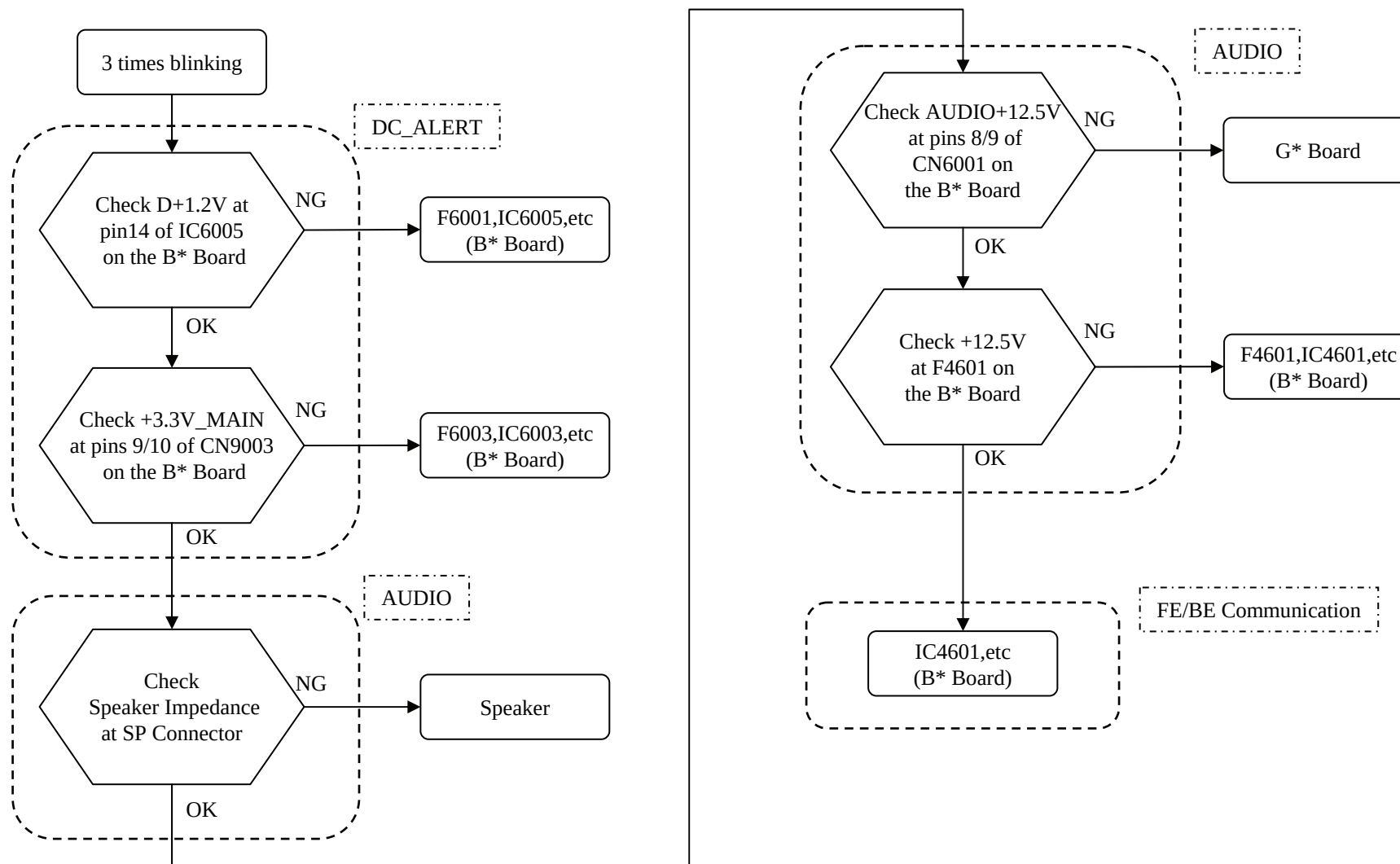
3-3. NO POWER

3-4. STANDBY LED BLINK

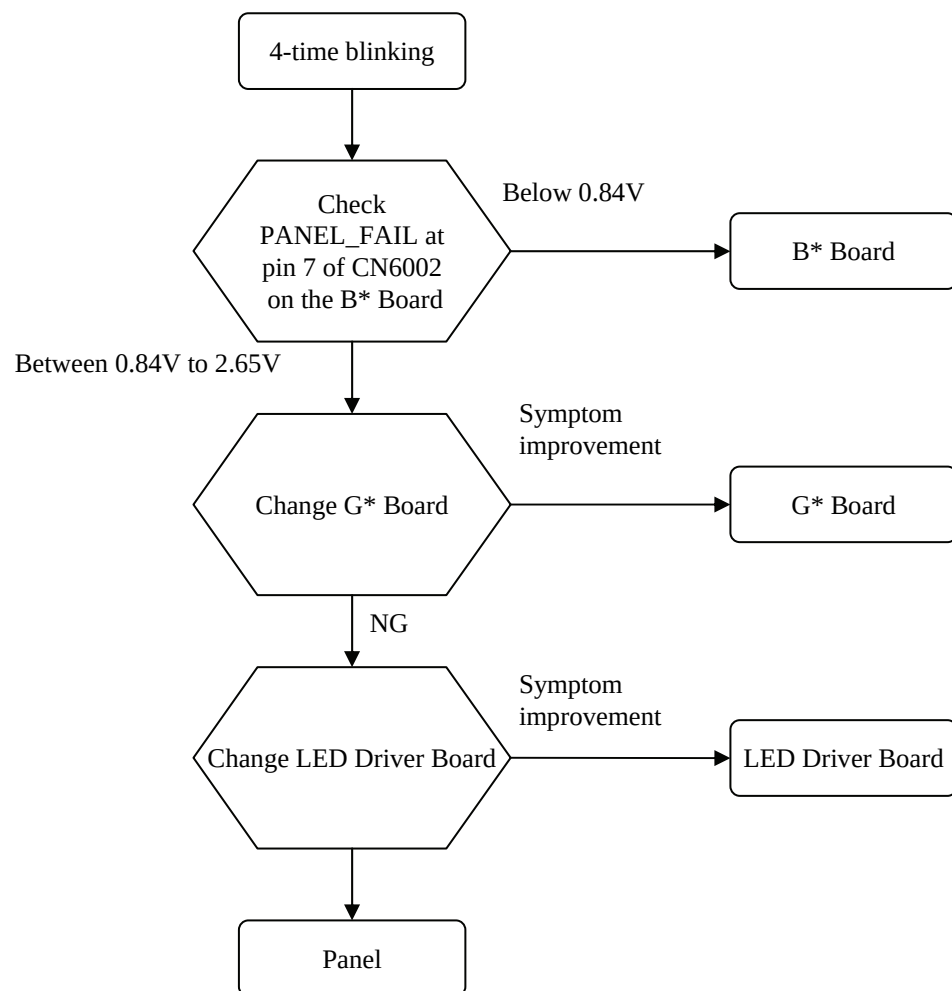
1) 2 times blinking (Main Power Error)



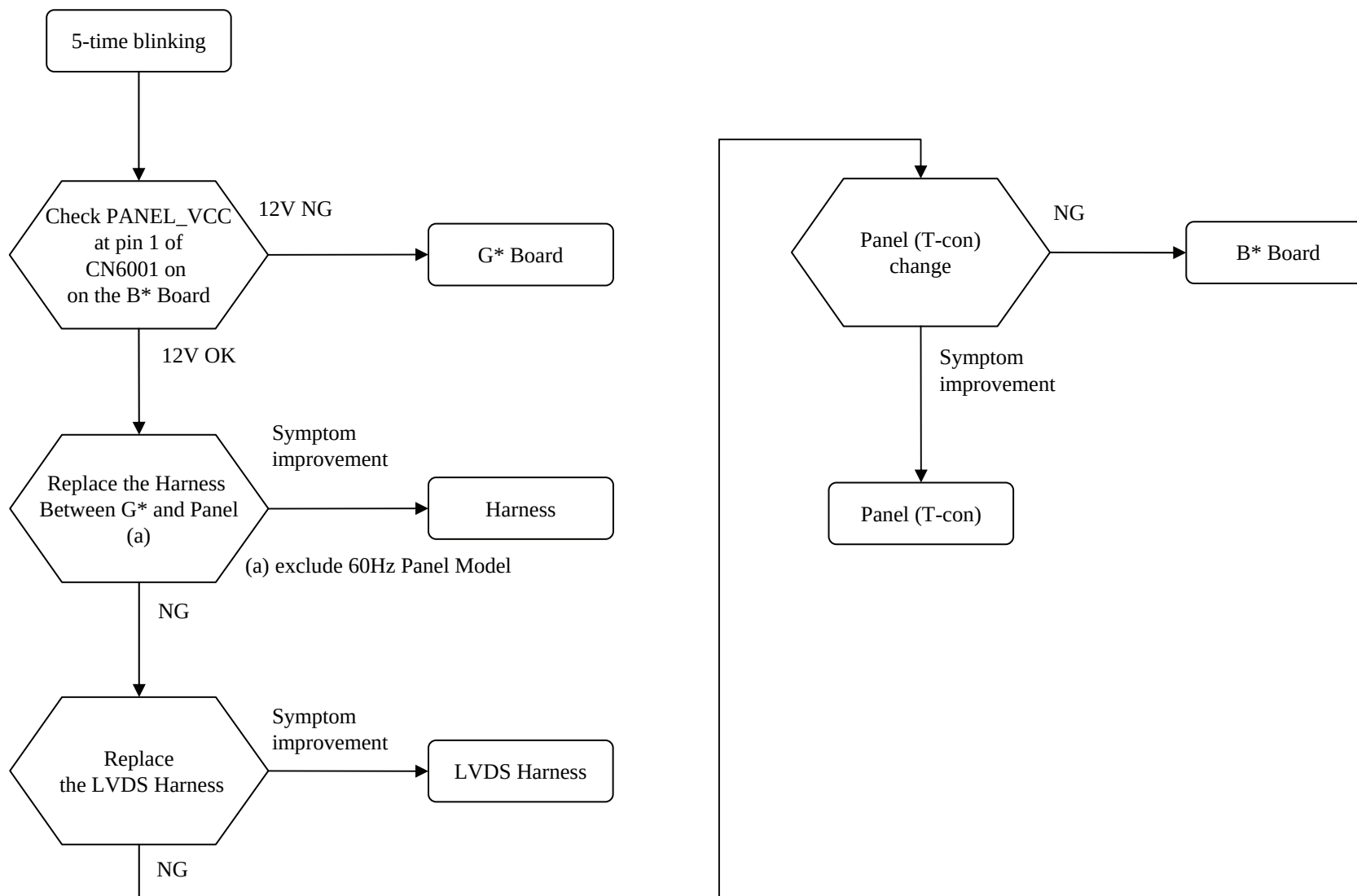
2) 3 times blinking (DC Alert, Audio Error and Communication Error)



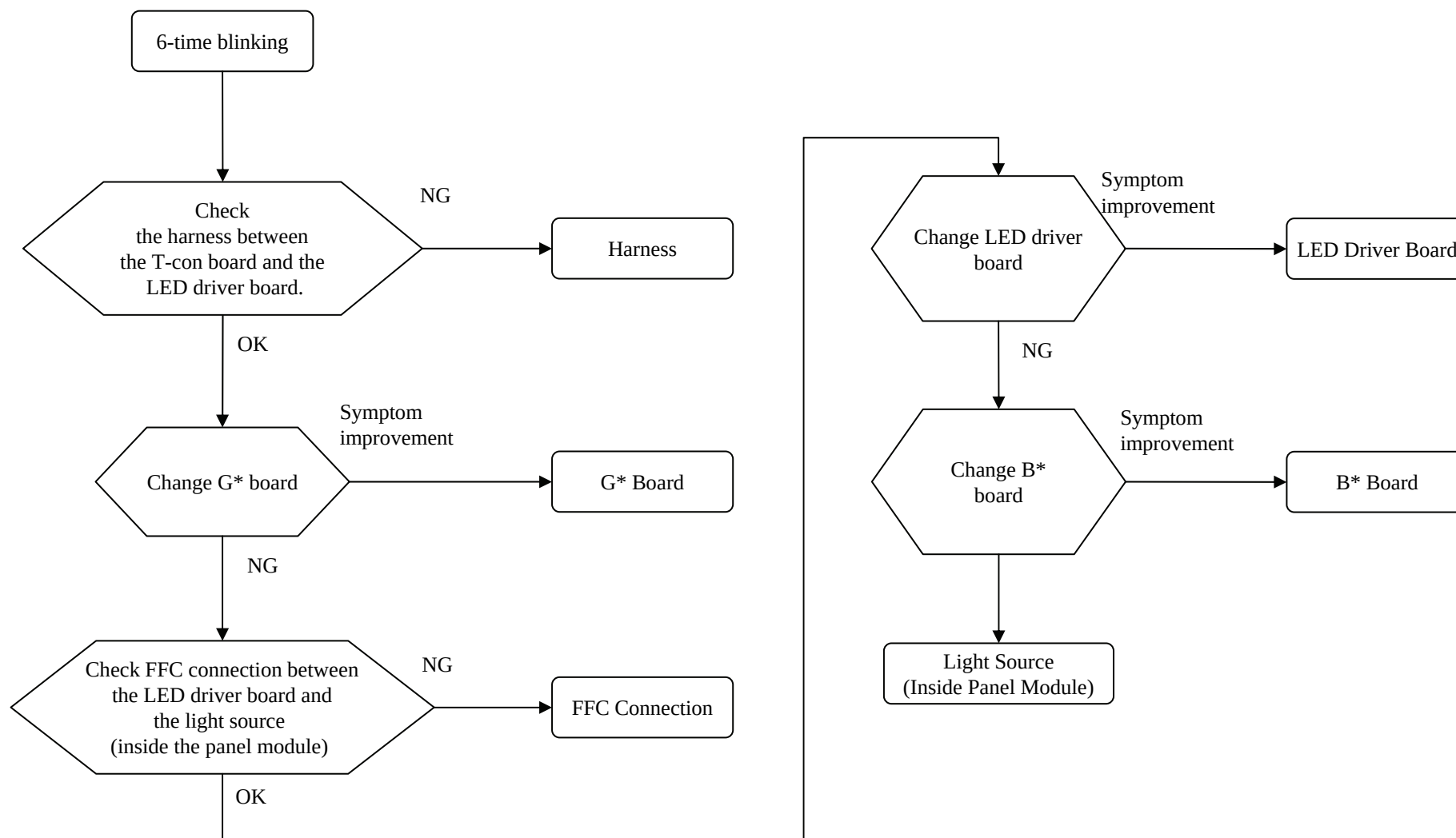
3) 4 times blinking (Balancer Error)



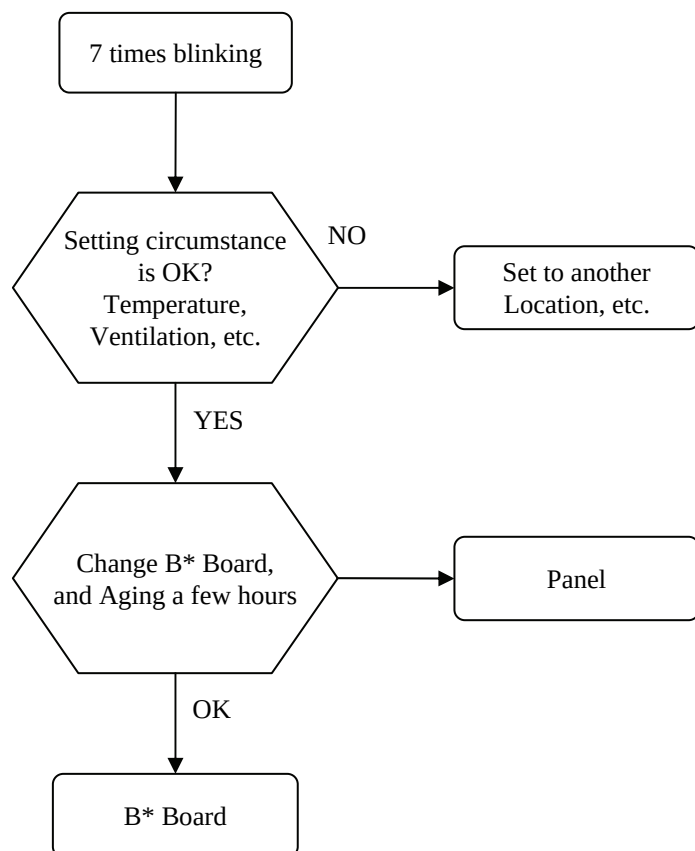
4) 5 times blinking (T-con Error)



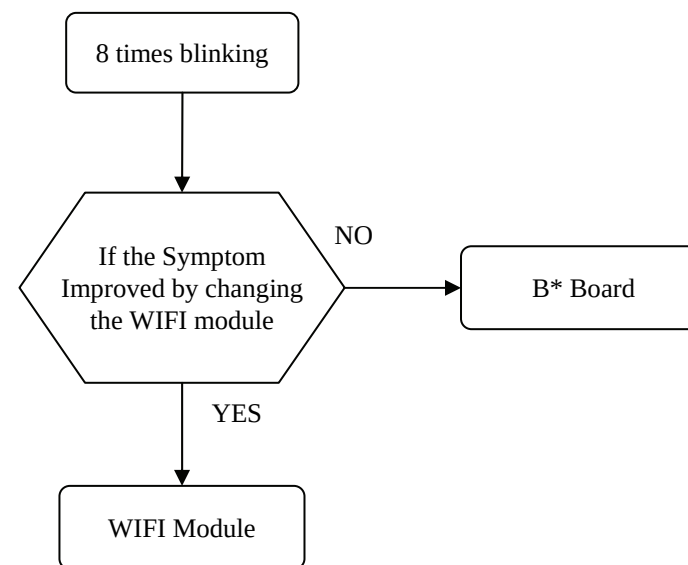
5) 6 times blinking (Backlight Error)



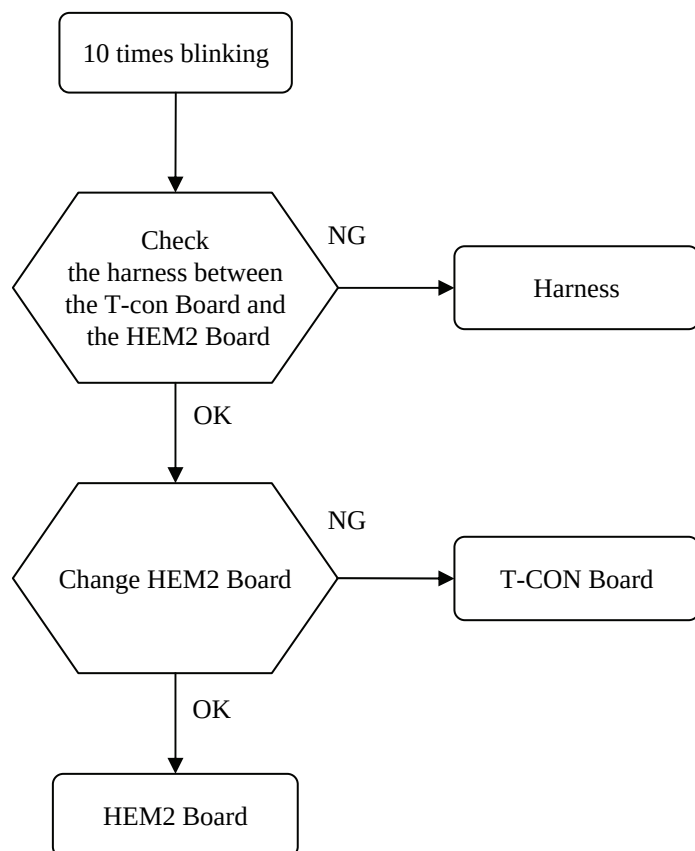
6) 7 times blinking (Temperature Error)



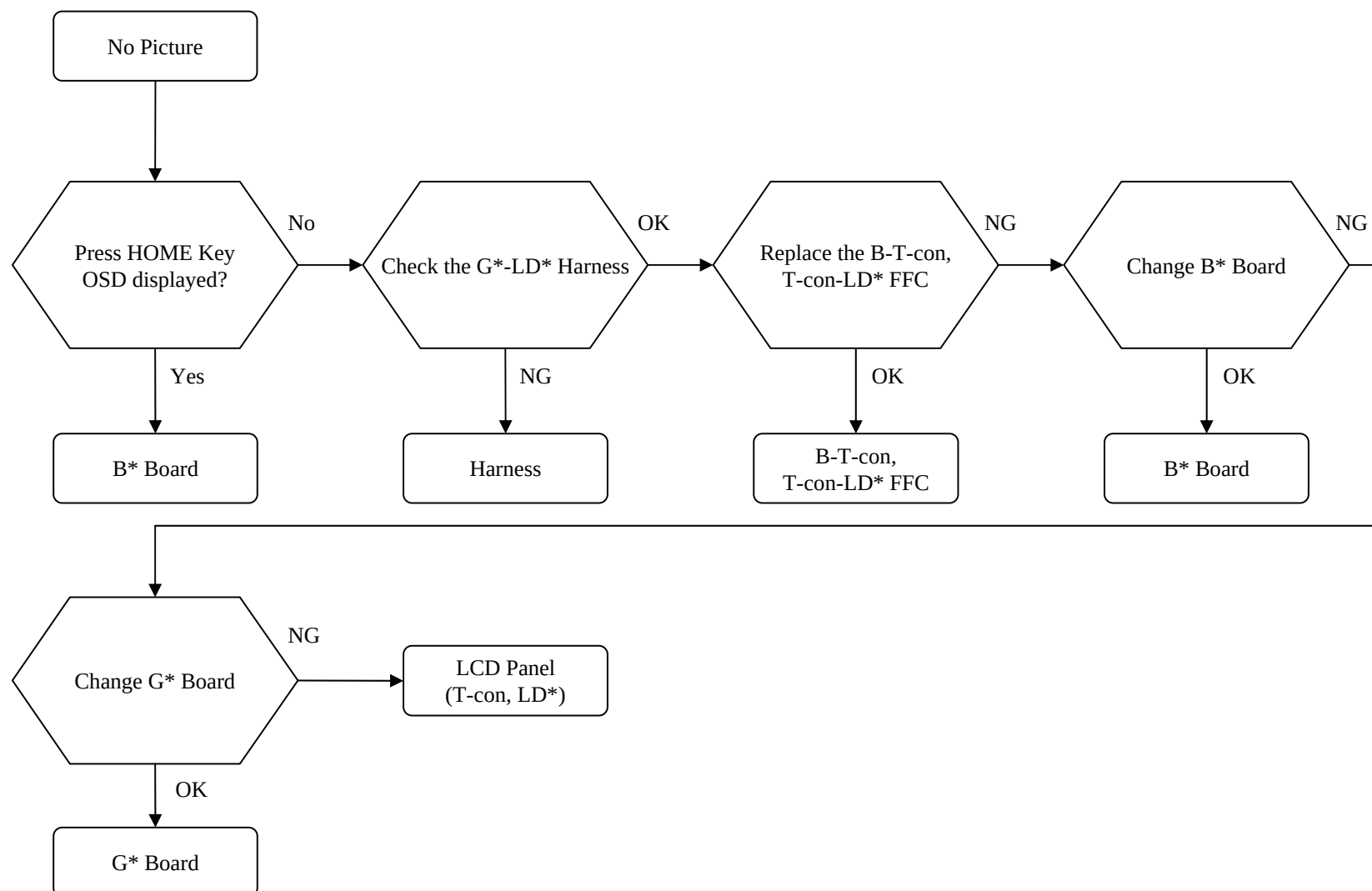
7) 8 times blinking (Software Error)

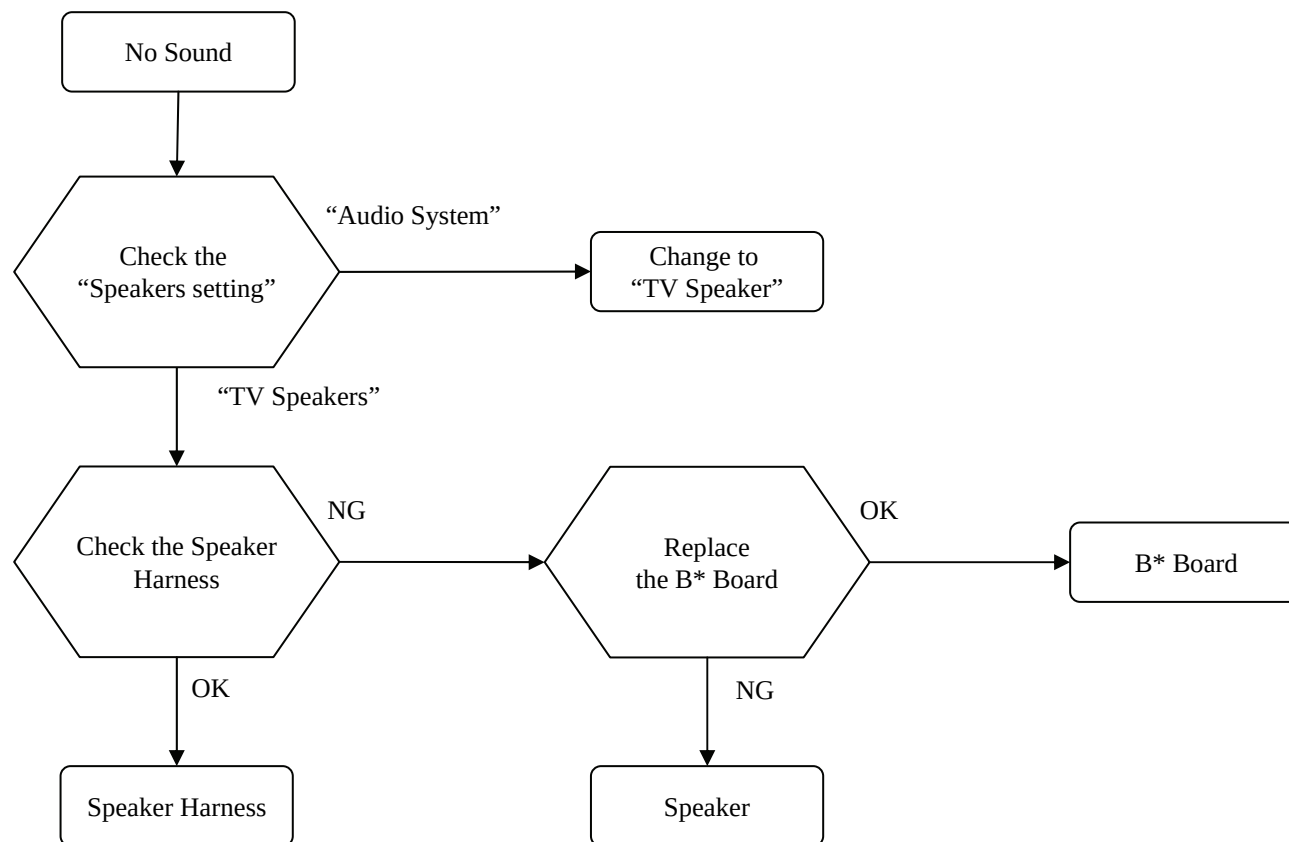


8) 10 times blinking (Emitter Error)



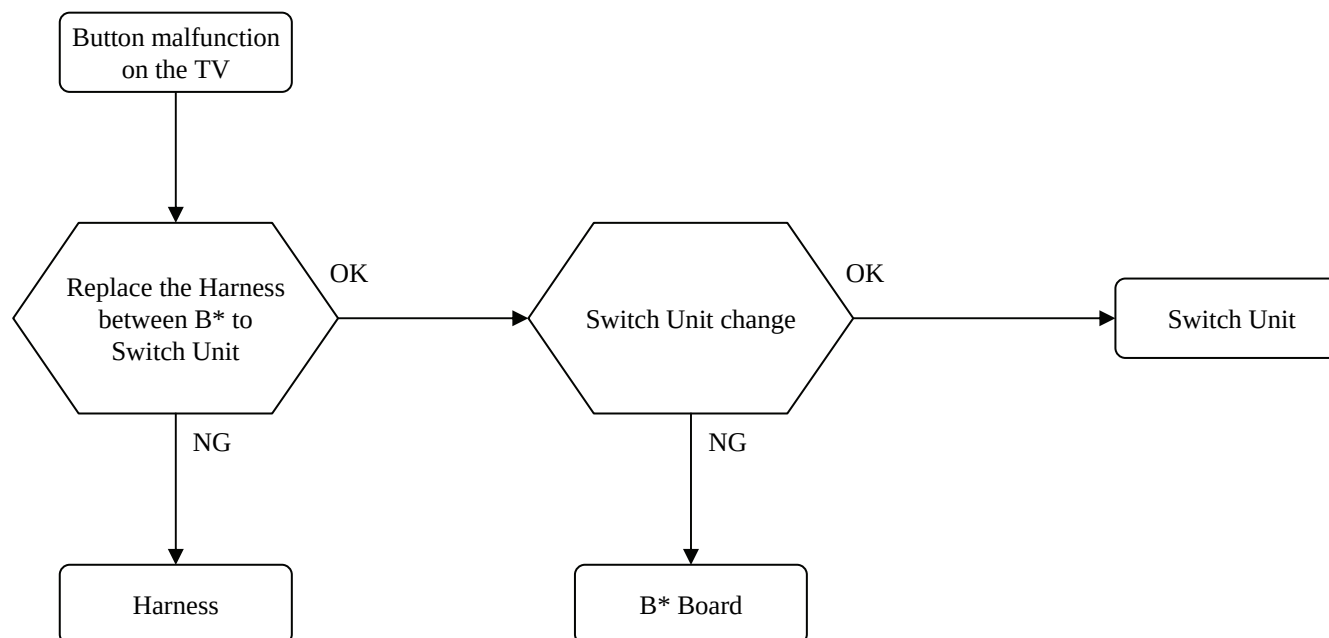
3-5. NO PICTURE



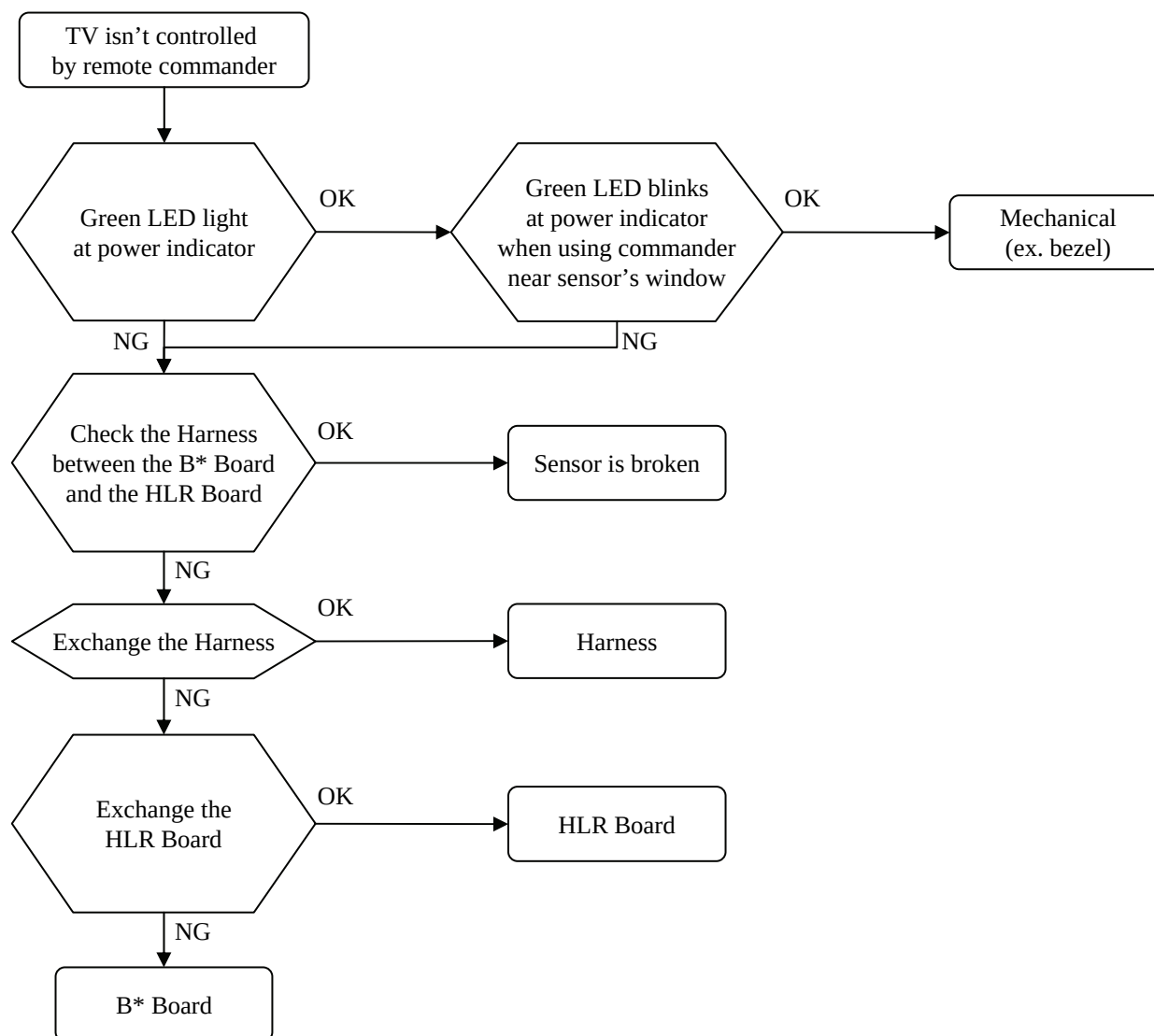
3-6. NO SOUND

3-7. TV COMMANDER BUTTONS MALFUNCTION

1) TV button malfunction

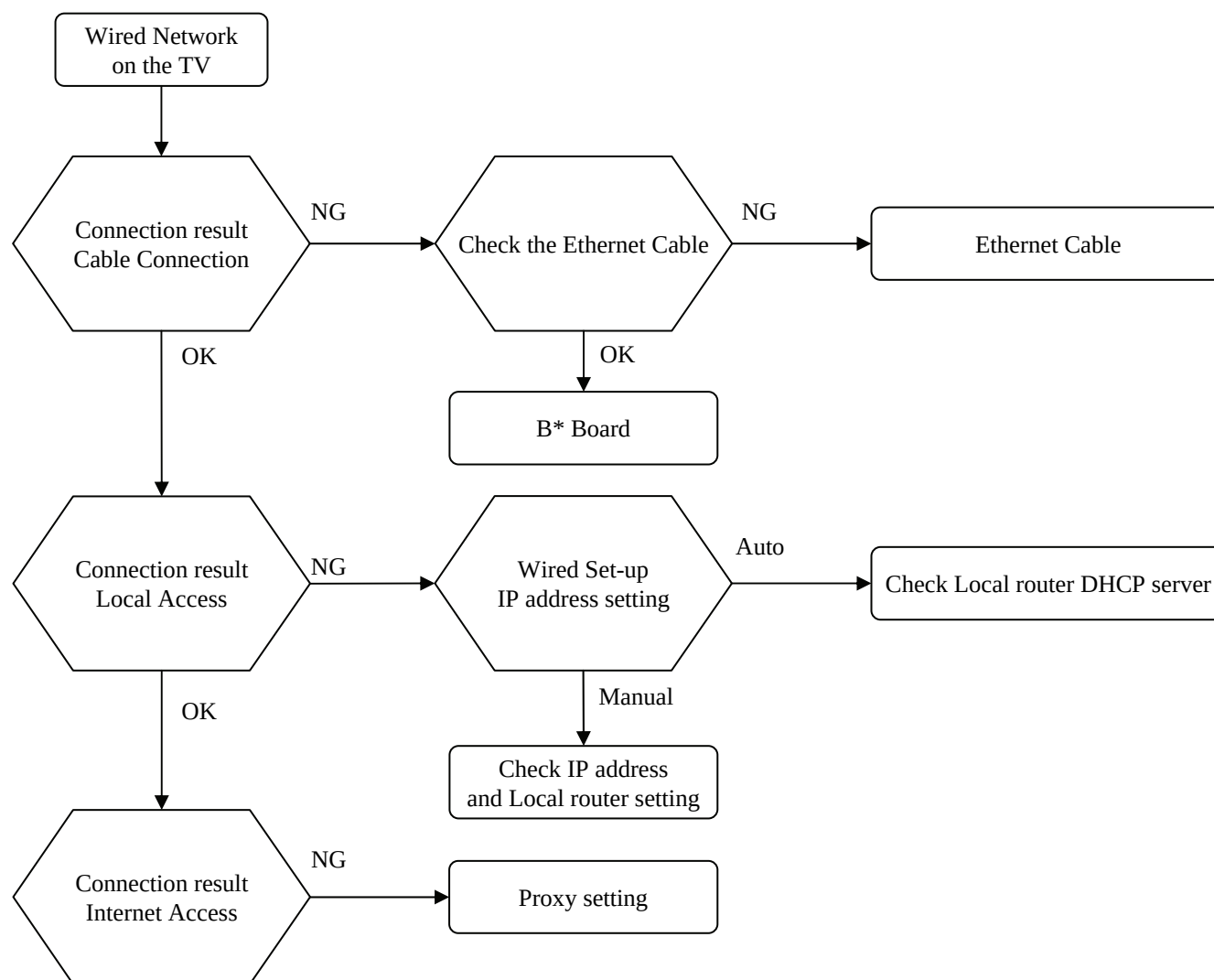


2) IR remote commander malfunction

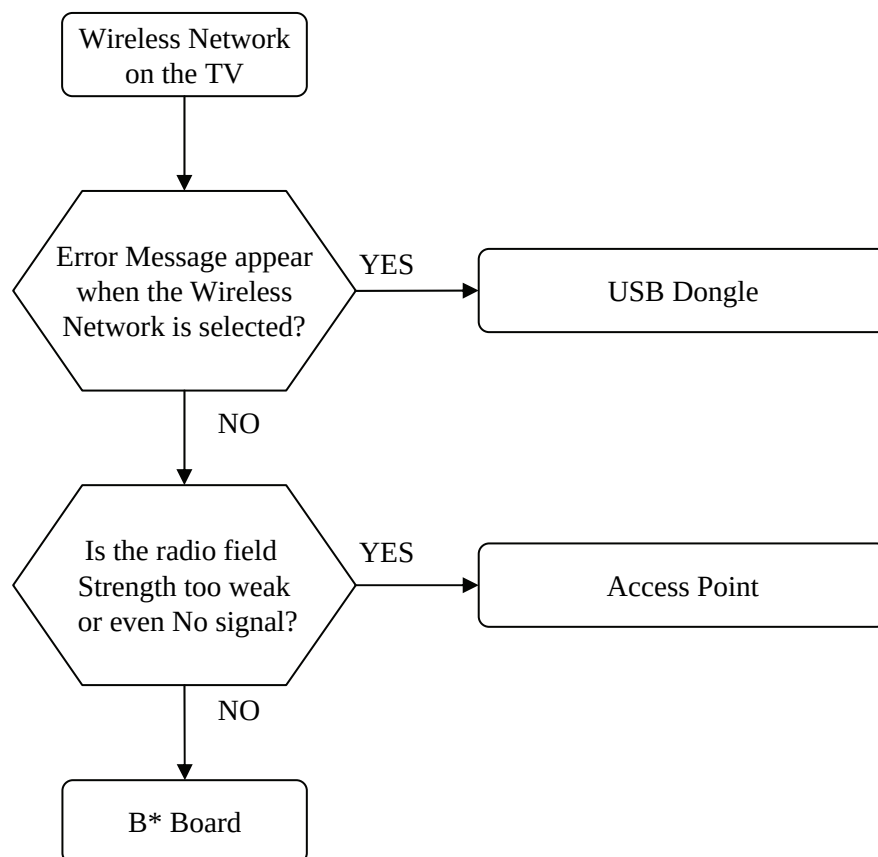


3-8. NETWORK MALFUNCTION

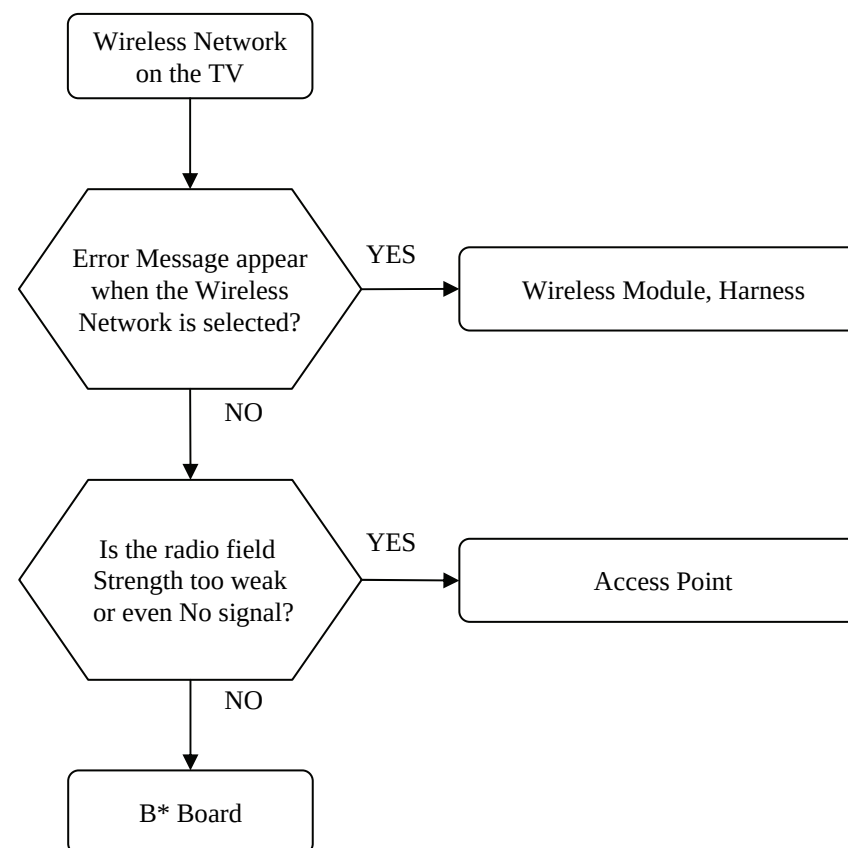
1) Wired Network malfunction



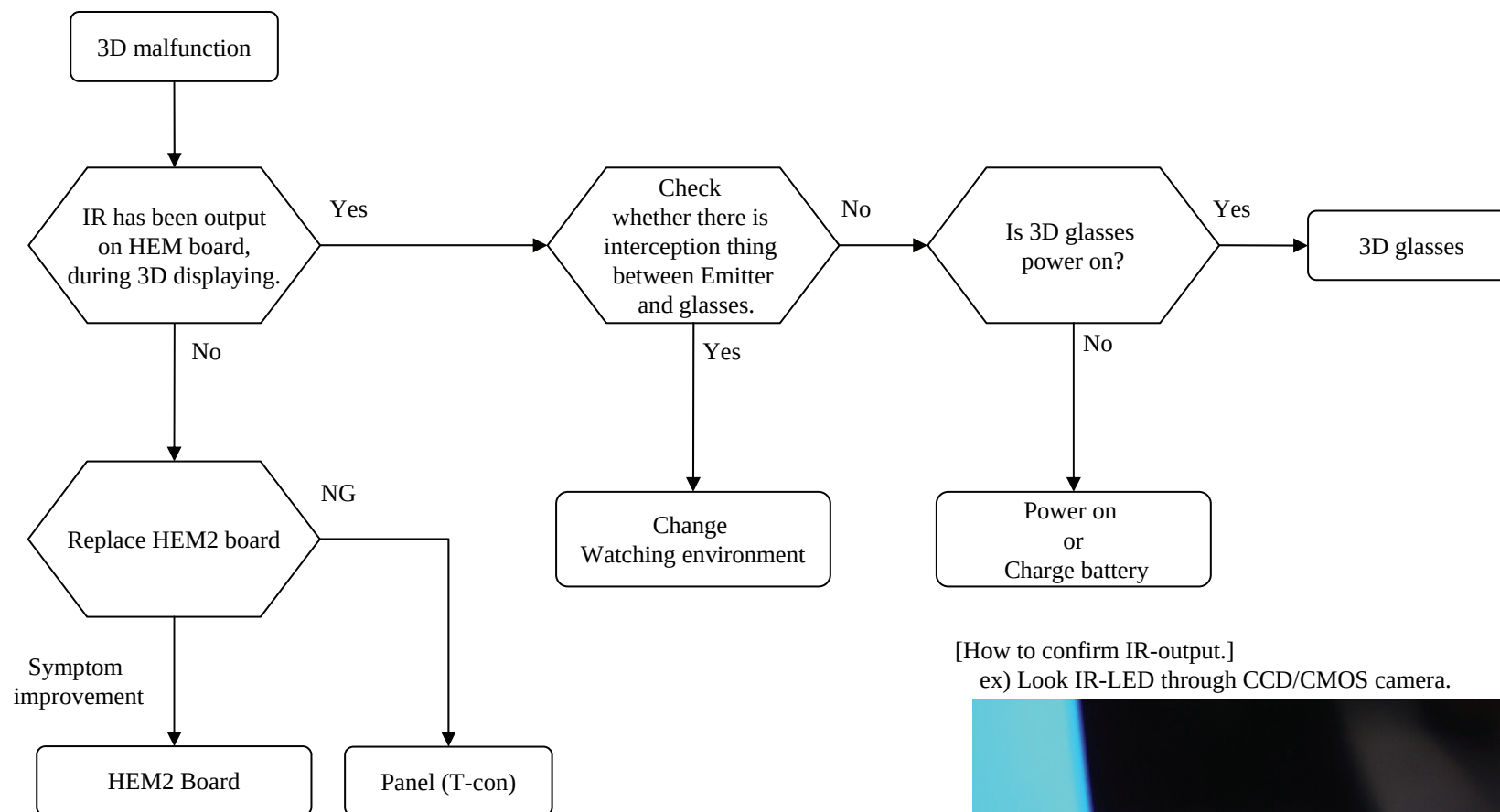
2) USB Wireless Network malfunction



3) Internal Wireless Network malfunction

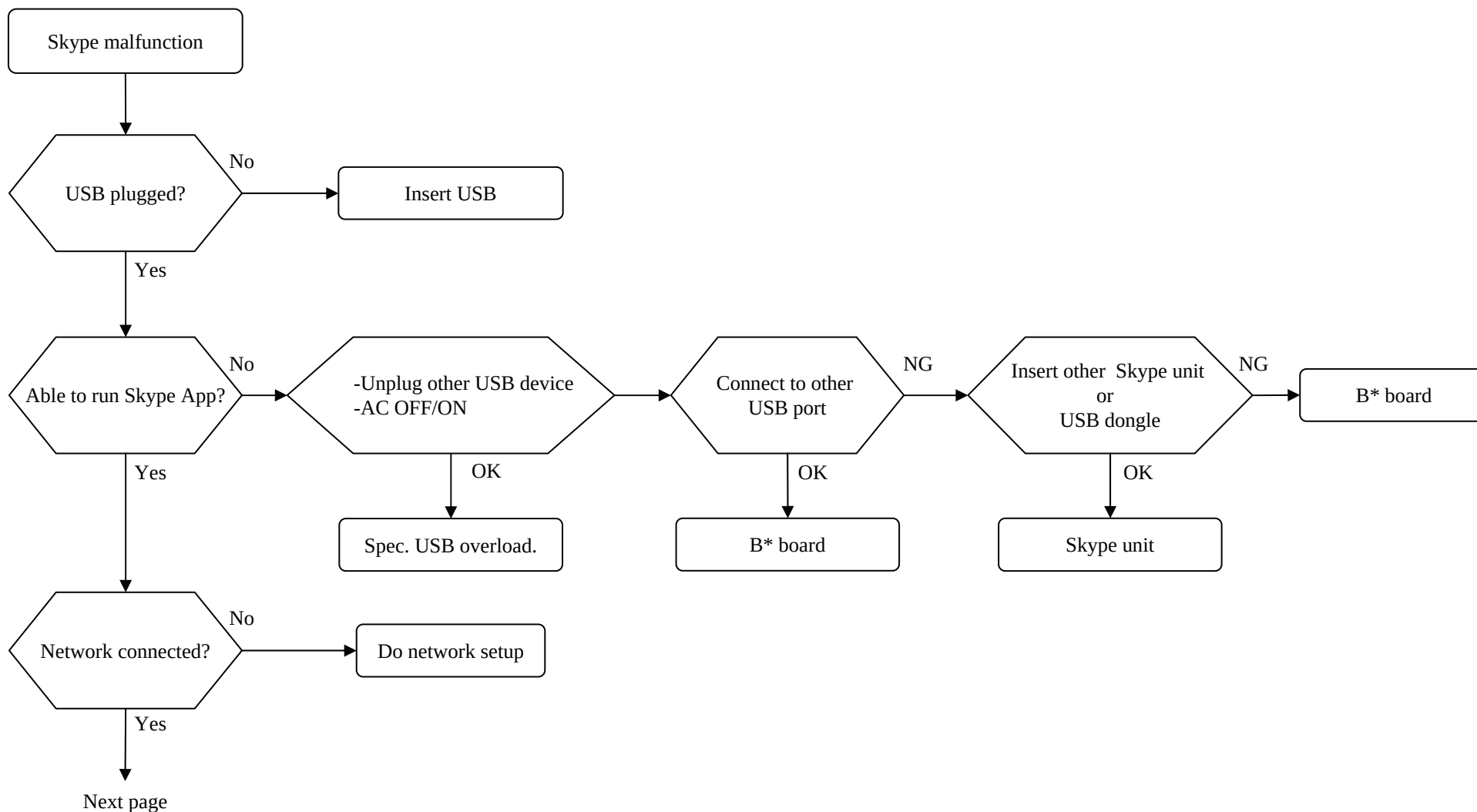


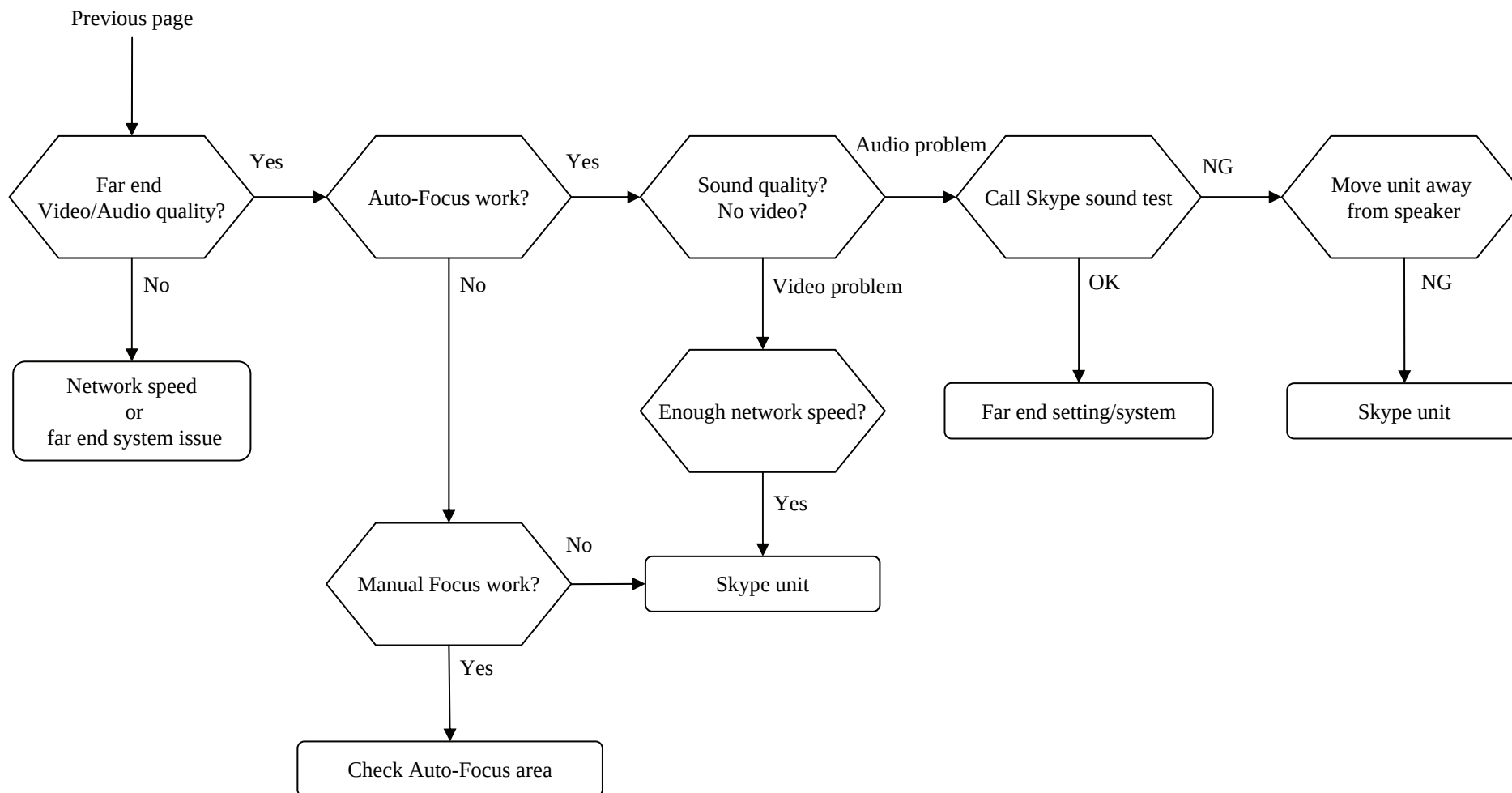
3-9. 3D MALFUNCTION



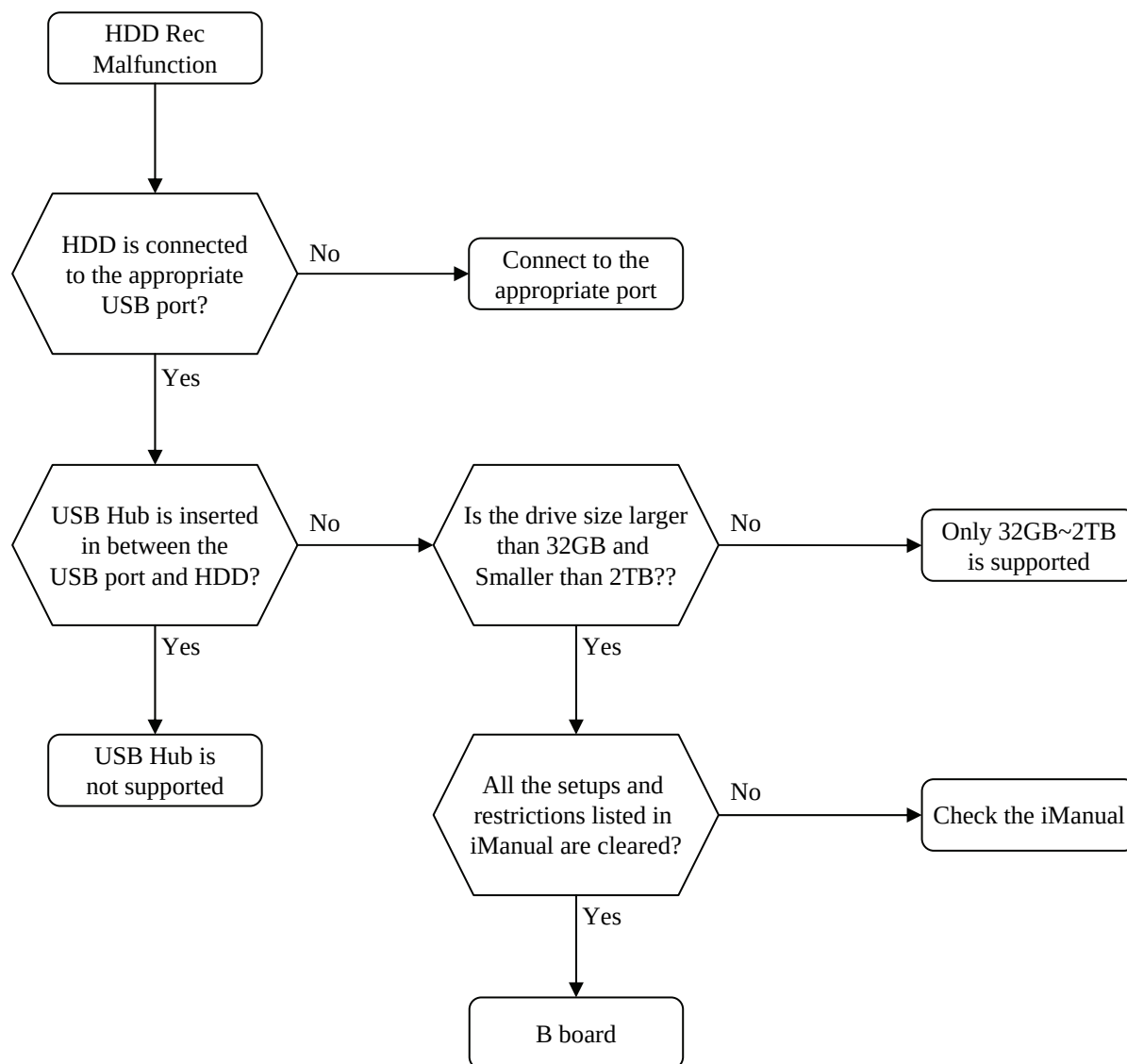
[How to confirm IR-output.]
ex) Look IR-LED through CCD/CMOS camera.



3-10. Skype MALFUNCTION 1 / 2

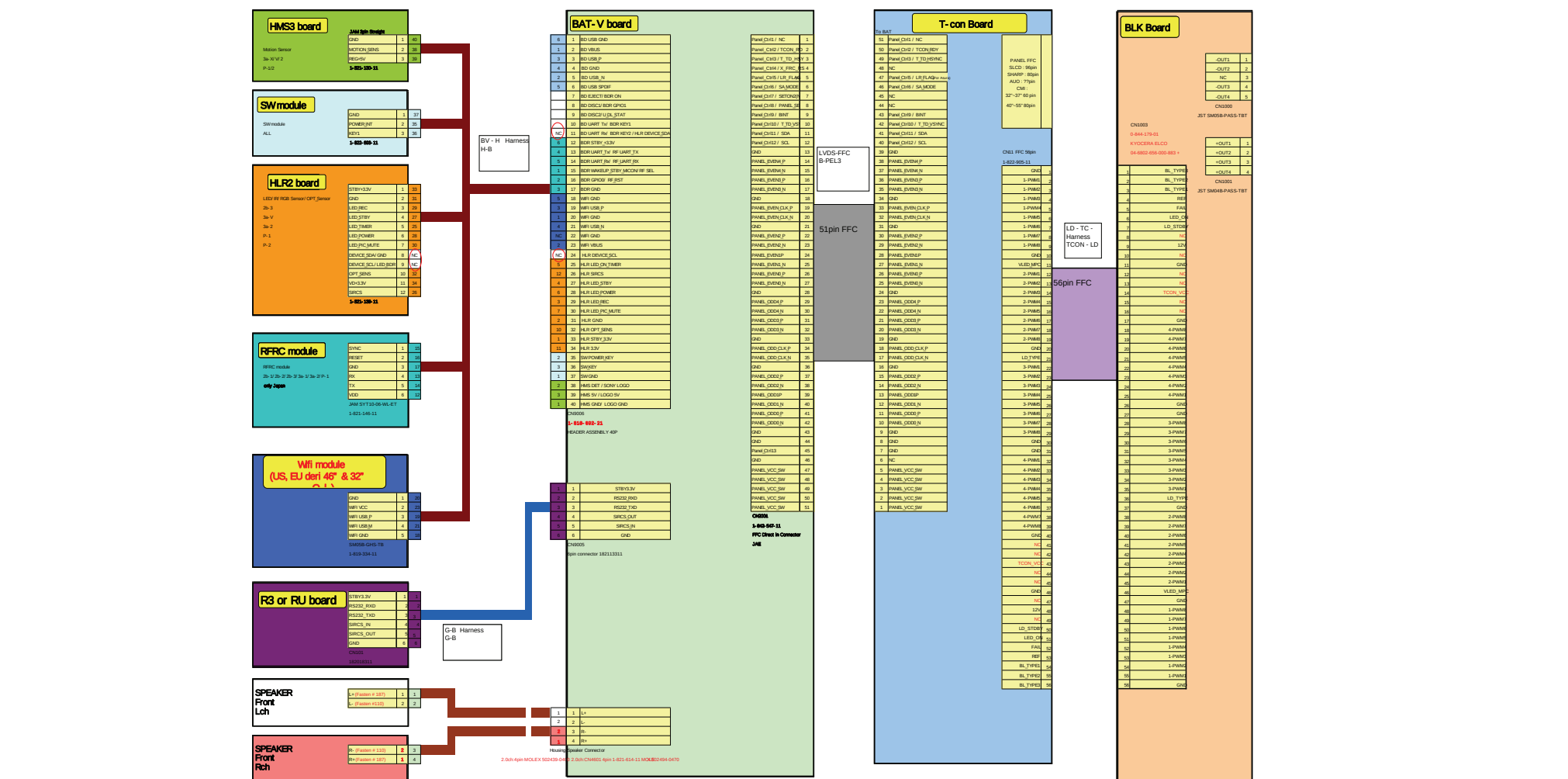
3-10. Skype MALFUNCTION 2 / 2

3-11. HDD-Rec MALFUNCTION



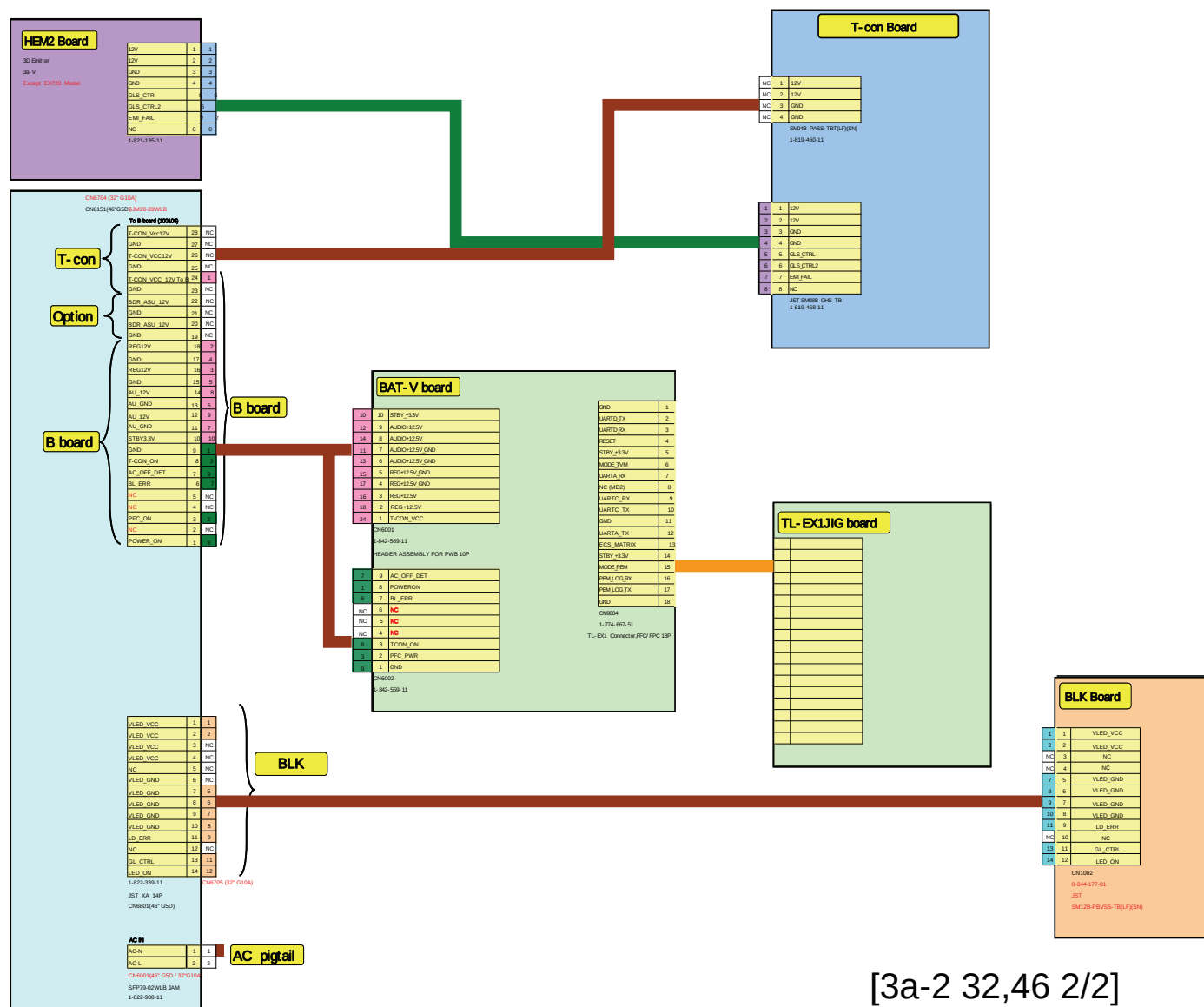
4-1. BLOCK DIAGRAM





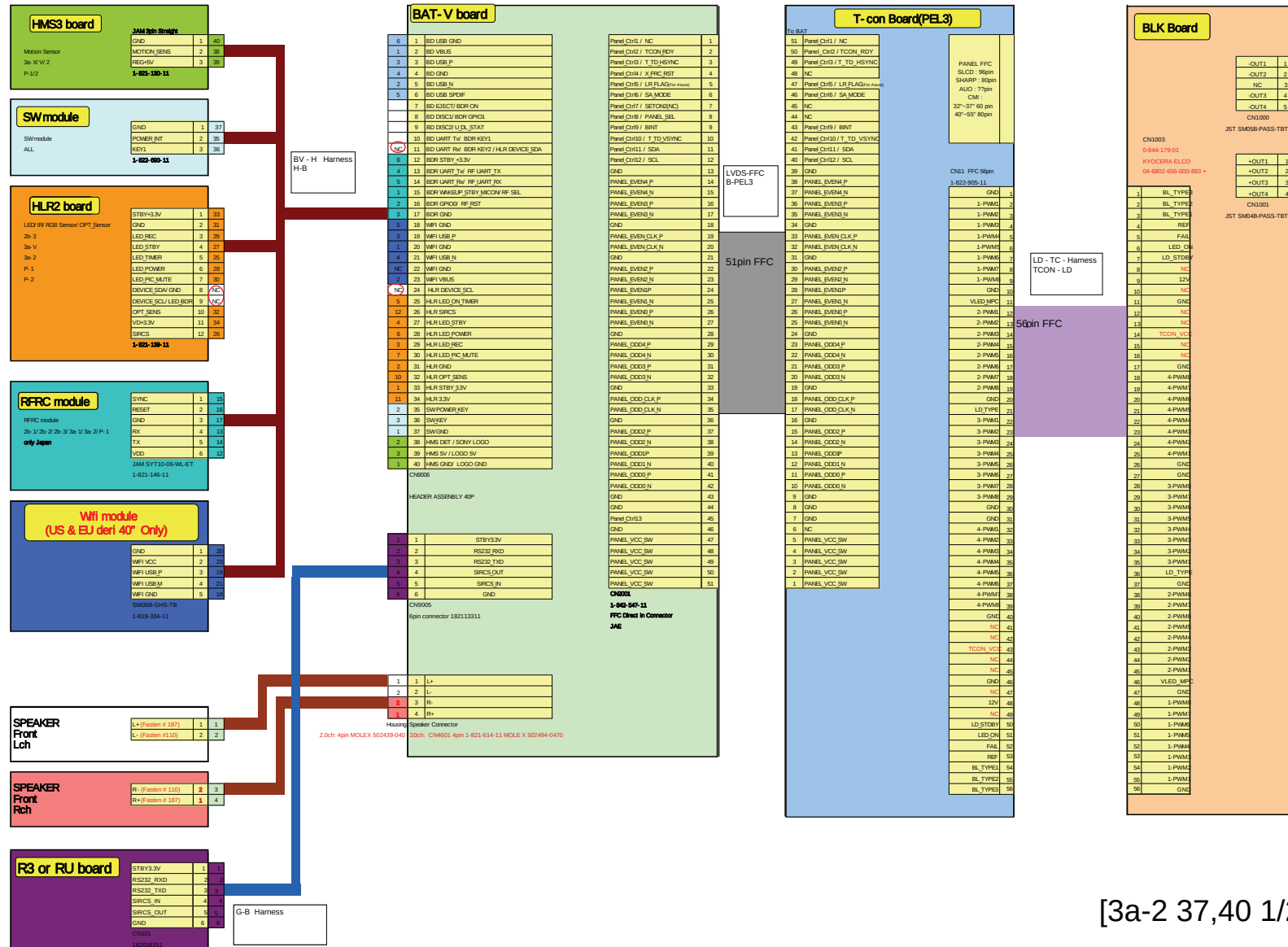
[3a-2 32,46 1/2]	
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4-2-1. KDL-32/46EX720,721,723,724,725,726,727,728,729 (2/2)

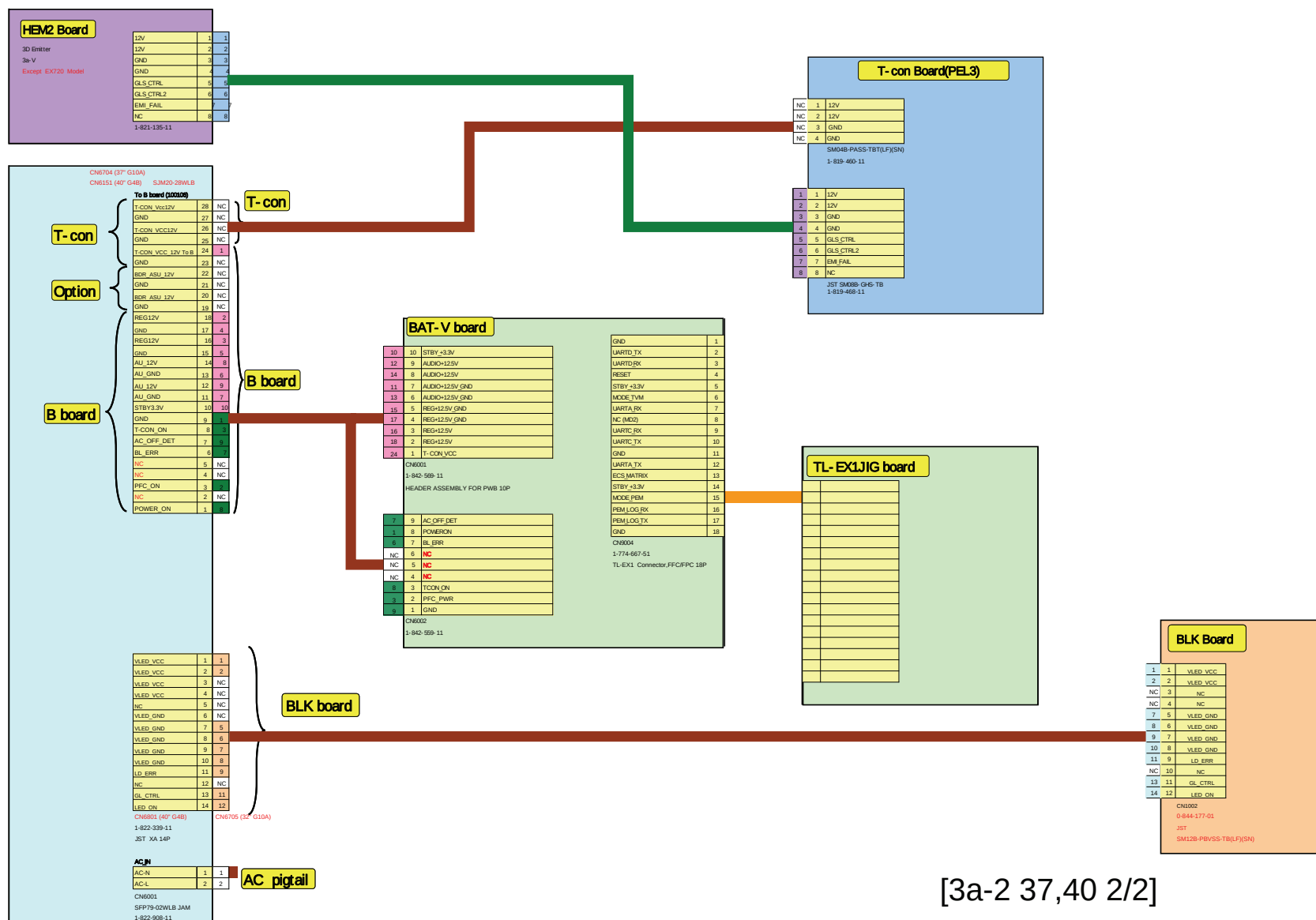


[3a-2 32,46 2/2]

4-2-2. KDL-37/40EX720,721,723,724,725,726,727,728,729 (1/2)

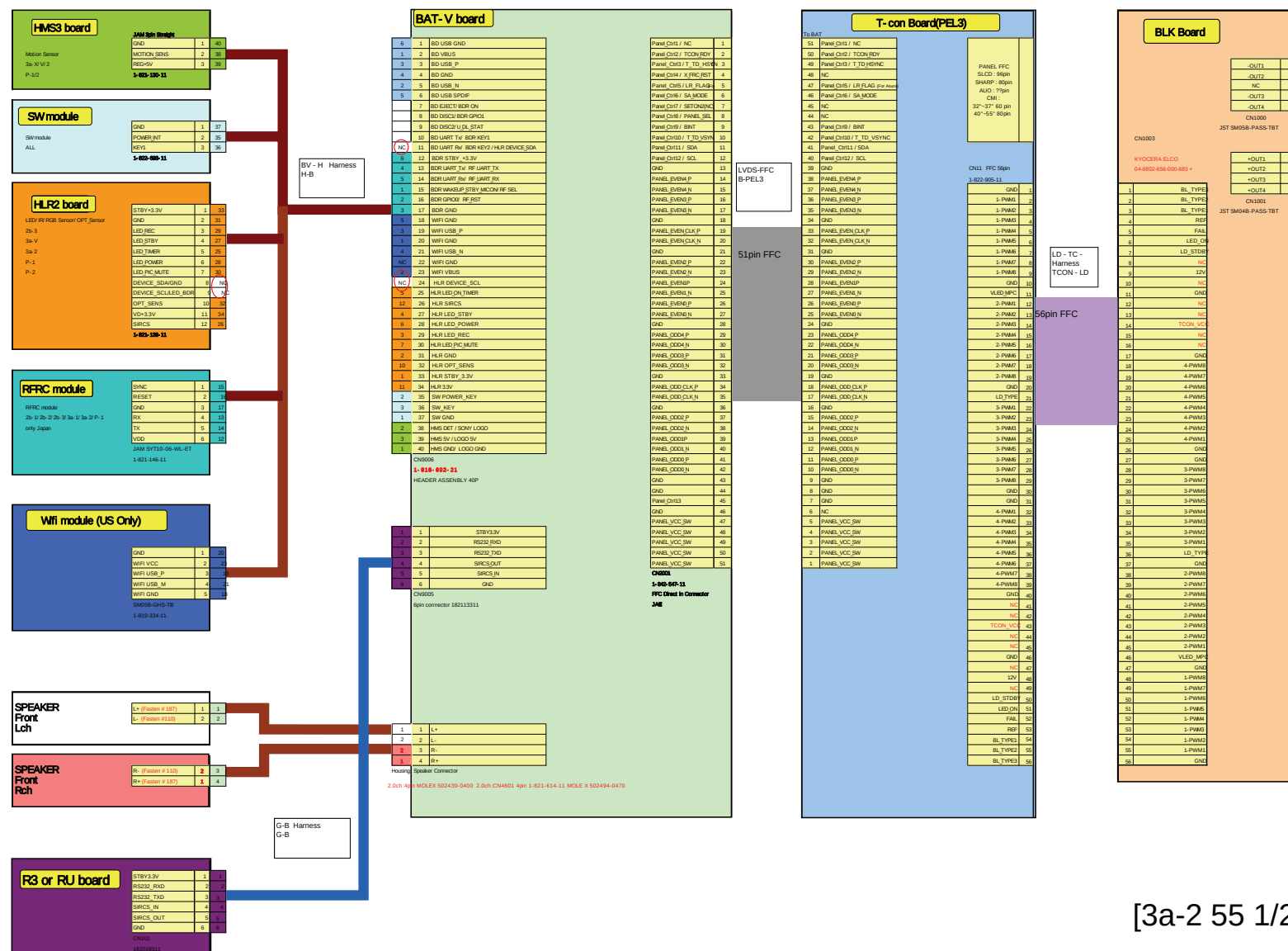


4-2-2. KDL-37/40EX720,721,723,724,725,726,727,728,729 (2/2)



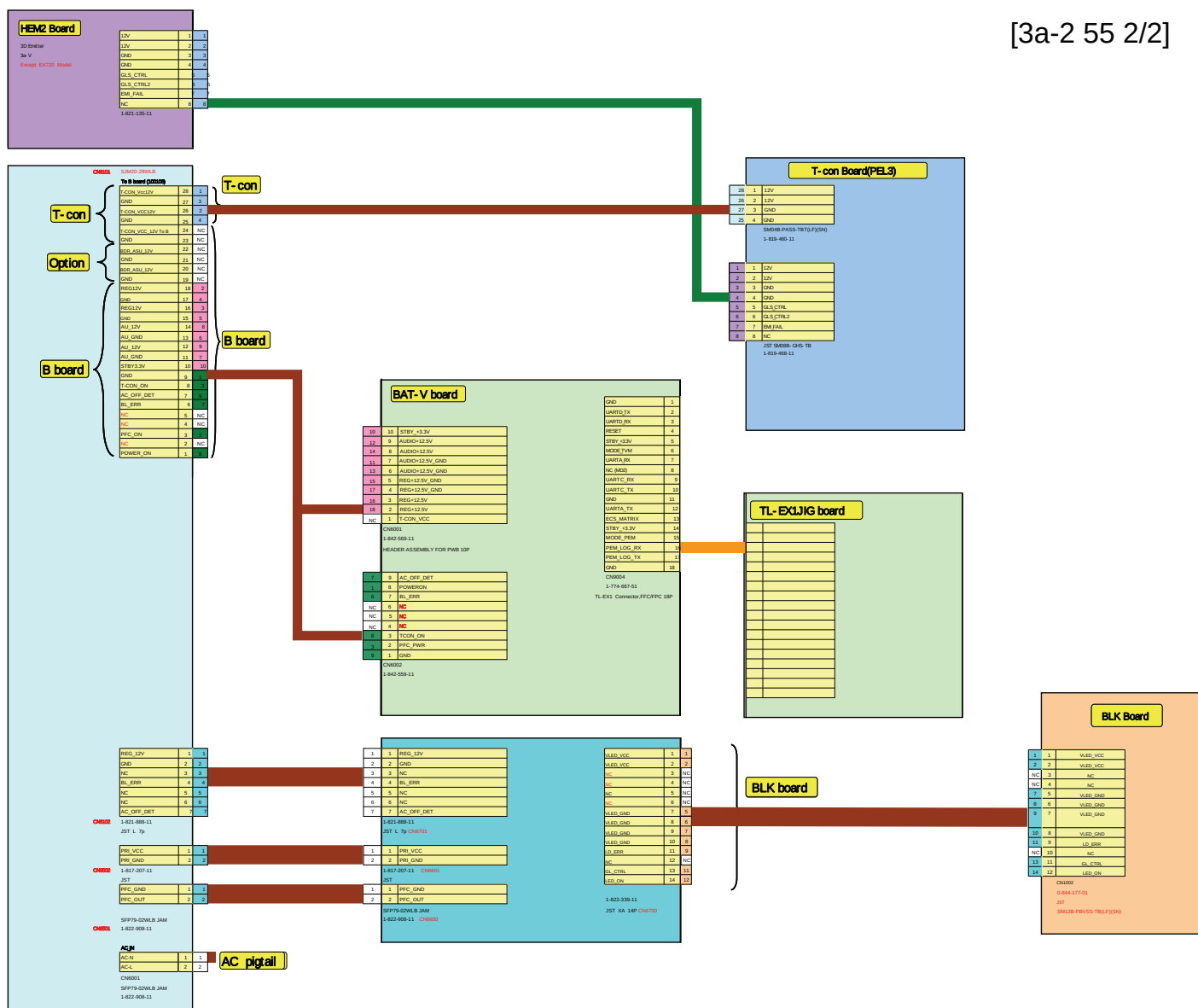
[3a-2 37,40 2/2]

4-2-3. KDL-55EX720,721,723,725 (1/2)



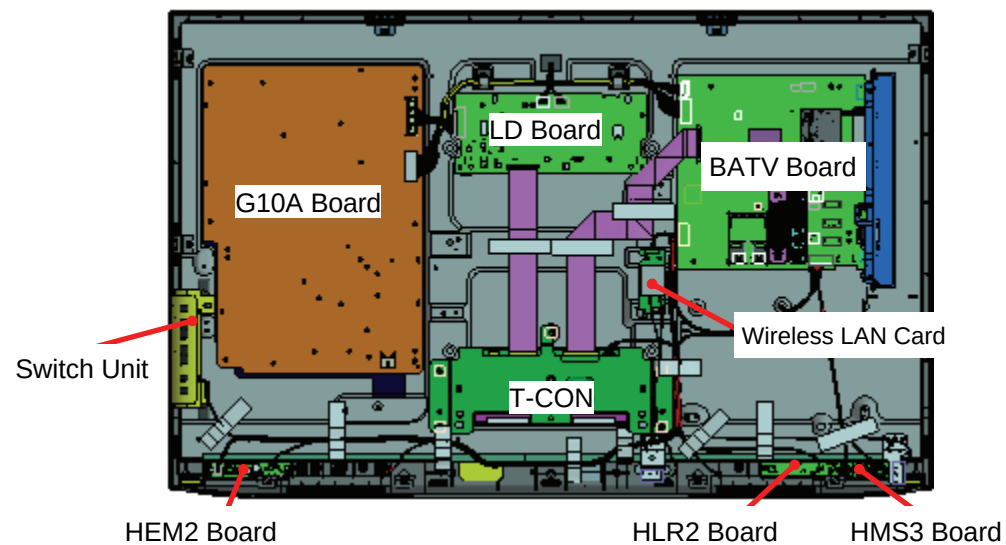
4-2-3. KDL-55EX720,721,723,725 (2/2)

[3a-2 55 2/2]

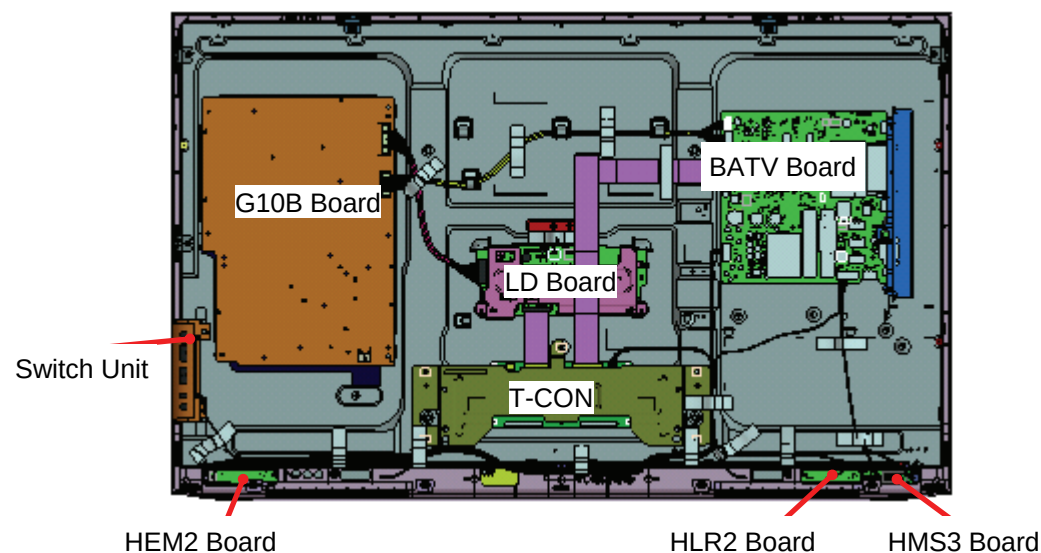


4-3. CIRCUIT BOARDS LOCATION

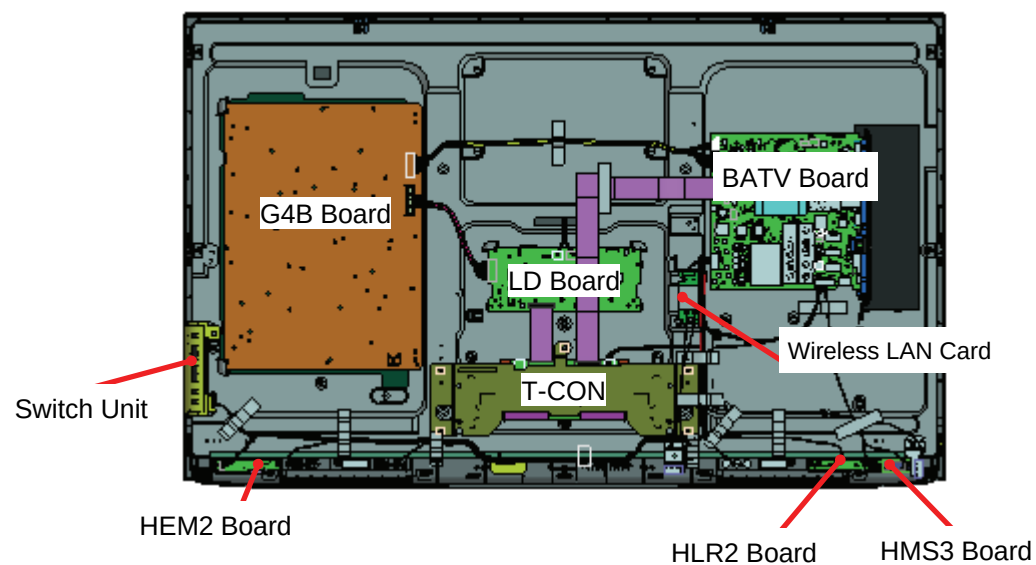
KDL-32EX720/721/723/724/725/726/727/728/729



KDL-37EX720/723/725

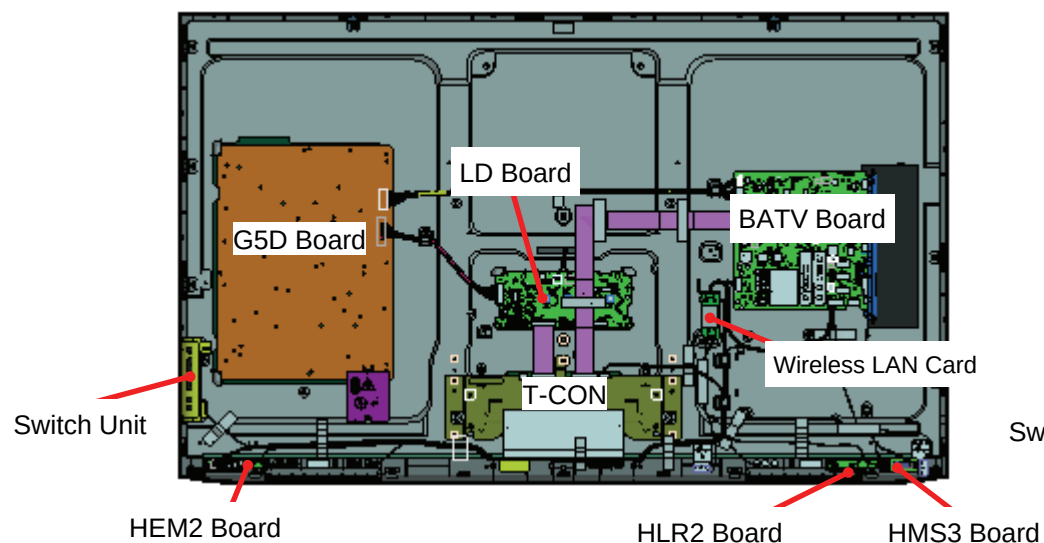


KDL-40EX720/721/723/724/725/726/727/728/729

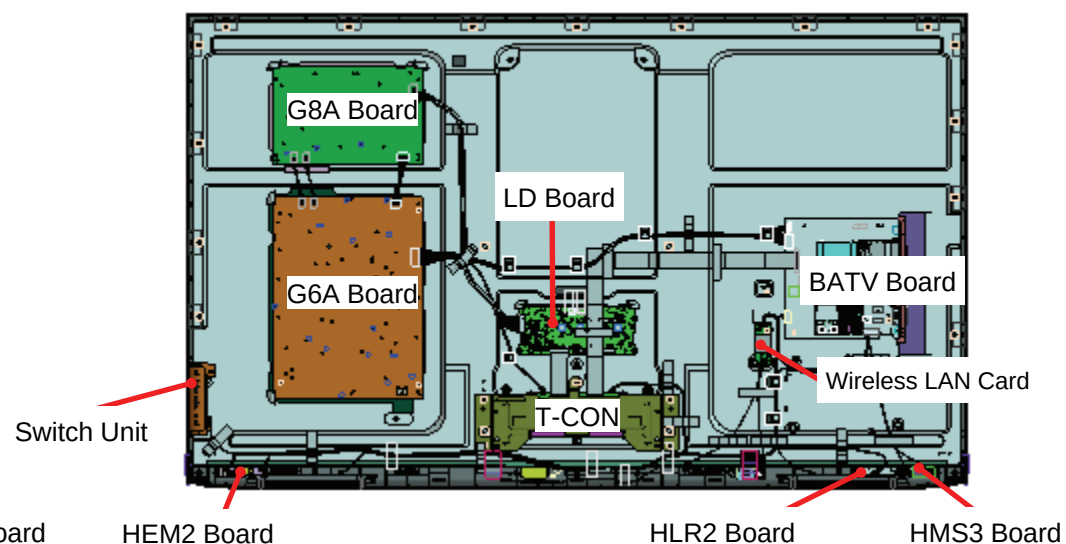


4-3. CIRCUIT BOARDS LOCATION

KDL-46EX720/721/723/724/725/726/727/728/729



KDL-55EX720/721/723/725



SEC 5. EXPLODED VIEWS

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

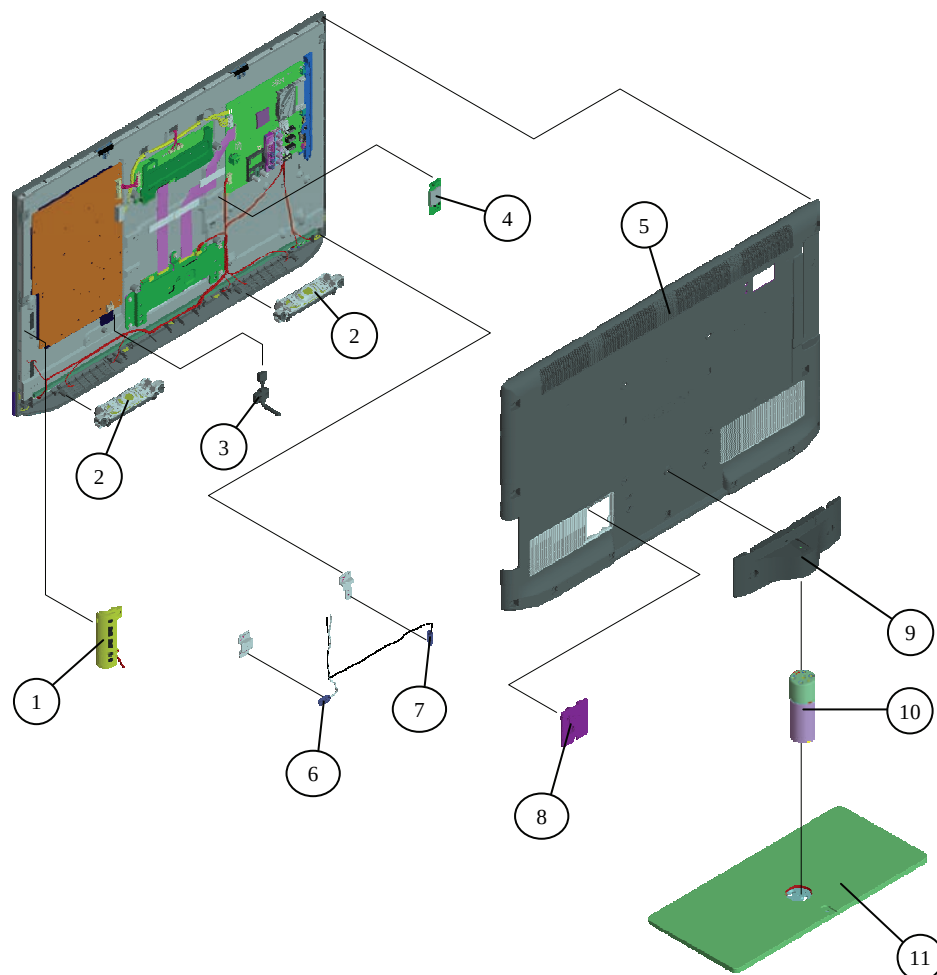
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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

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-32EX720/721/723/724/725/726/727/728/729

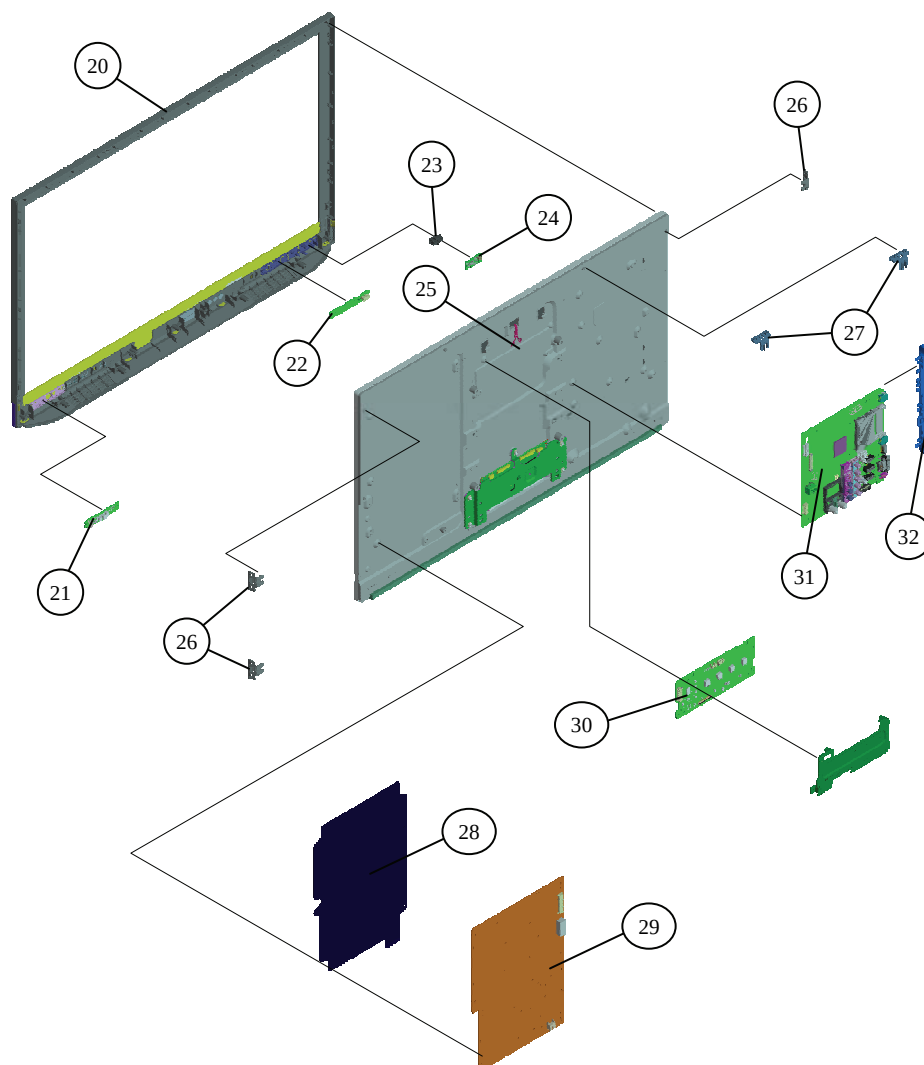
5-1-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	FX0006721	SWITCH UNIT	
2	FX0013811	LOUDSPEAKER (3X10CM)	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	EX723,4
4	FX0012011	WIRELESS LAN CARD	EX721,4,6,7,8,9
5	FX0014301	REAR COVER(32)	EX720,1,3,4
	FX0015011	REAR COVER(32)	EX725,6,7,8,9
6	FX0012211	ANTENNA	EX721,4,6,7,8,9
7	FX0013611	ANTENNA	EX721,4,6,7,8,9
8	△ FX0002711	COVER, AC(M)	
9	FX0014611	STAND HEAD (M9)	
10	FX0014501	NECK (M9)	
11	FX0014701	STAND, BASE A(M1)	EX721,4,8
	FX0015111	STAND, BASE A(M1)	EX727
	FX0015511	STAND, BASE (M2)	EX720,3,5,6,9

5-1. KDL-32EX720/721/723/724/725/726/727/728/729

5-1-2. CHASSIS-2



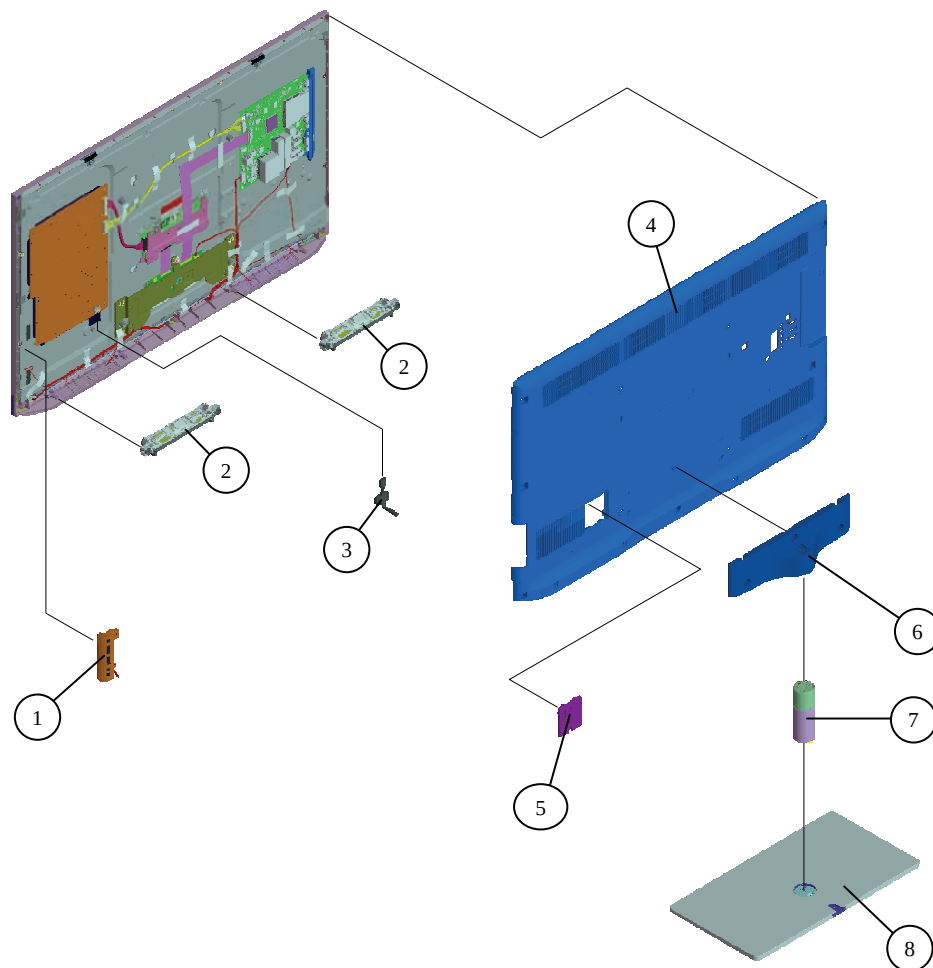
REF. No.	PART No.	DESCRIPTION	REMARK
20	FX0014921	BEZEL (32 CAS)	EX721,4,8
	FX0015341	BEZEL (32 CAS)	EX726,7
	FX0015701	BEZEL (32 CAS)	EX720,3,5
	FX0015851	BEZEL (32 CAS)	EX729
21	FX0093501	HEM2 MOUNT	
22	FX0094001	HLR2 MOUNT(B-O-AEP)	
23	* FX0000711	FRENEL LENS	
24	FX0093901	HMS3_B_MOUNT	
25	1-811-339-11	LCD PANEL (S32EDL) (S-LCD PANEL)	
	1-811-424-11	LCD PANEL (FDMF315NN01) (CMI PANEL)	
	1-811-353-11	LCD PANEL (A32V7) (AUO PANEL)	
26	FX0006101	BRACKET, PANEL (C)	
27	FX0006201	BRACKET, PANEL (H)	
28	FX0006401	SHEET, INSULATION (G10)	
29	⚠ FX0014411	STATIC CONVERTER (TV)-G10A (for S-LCD PANEL, CMI PANEL)	
	⚠ FX0045111	STATIC CONVERTER (TV)-G10BV (for AUO PANEL)	
30	FX0093701	LD_BLK A MOUNT	
31	FX0093801	BAT-V COMPL (SERVICE)	EX720,1
	FX0094501	BAT-V COMPL (SERVICE)	EX725,6,7,8,9
	FX0094801	BAT-V COMPL (SERVICE)	EX723,4
	FX0095601	BAT-V COMPL (SERVICE)	EX720(IT)
	FX0096401	BAT-V COMPL (SERVICE)	EX725(IT)
32	FX0006021	BRACKET SIDE (BAT-V32)	

Note: When changing LCD Panel it may be necessary to order LABEL(BAT-V MOLD SIDE), please check Miscellaneous parts list for part number.

Note: Please check TB 11TV025 for LCD Panel or PSU compatibility information.

5-2. KDL-37EX720/723/725

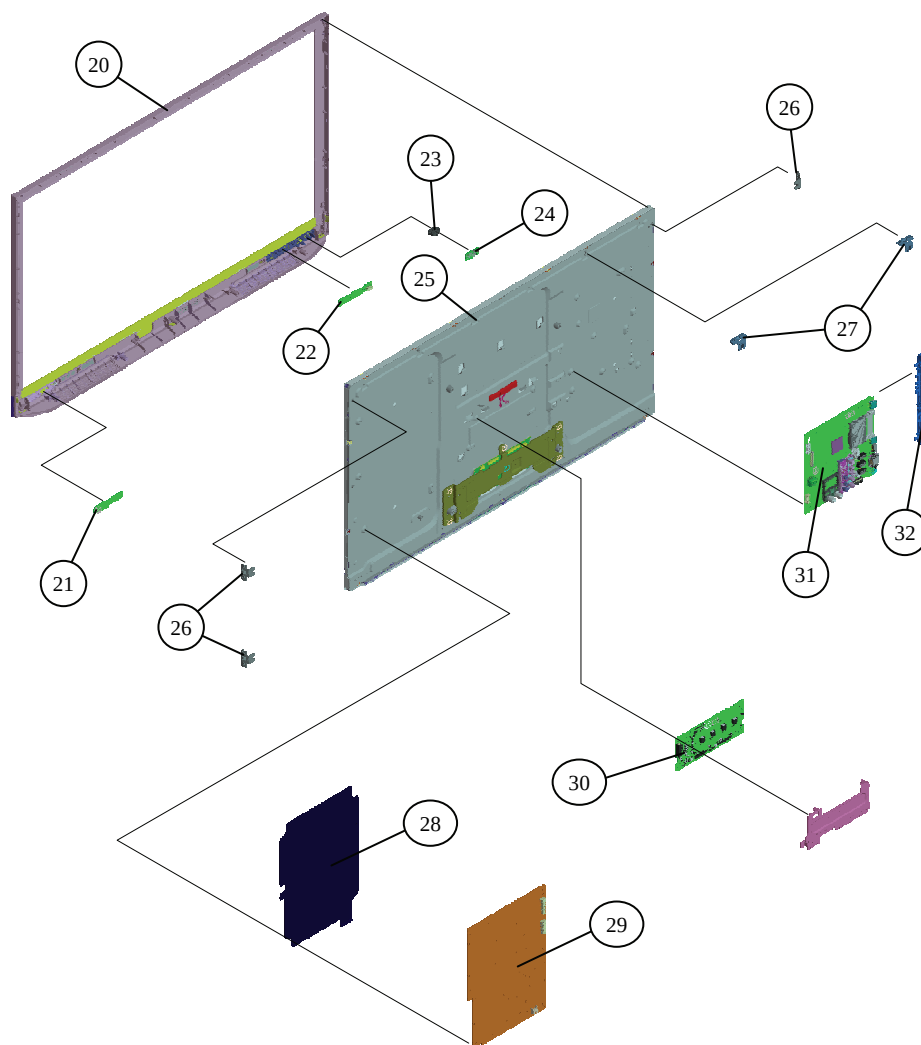
5-2-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	FX0006721	SWITCH UNIT	
2	FX0006911	LOUDSPEAKER (3X15CM)	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	EX723
4	FX0007501	REAR COVER(37)	EX720
	FX0007511	REAR COVER(37)	EX725
	FX0019002	REAR COVER(37)	EX723
5	△ FX0002711	COVER, AC(M)	
6	FX0007801	STAND HEAD (ML9)	
7	FX0007602	NECK (ML9)	
8	FX0008001	STAND, BASE (ML2)	

5-2. KDL-37EX720/723/725

5-2-2. CHASSIS-2

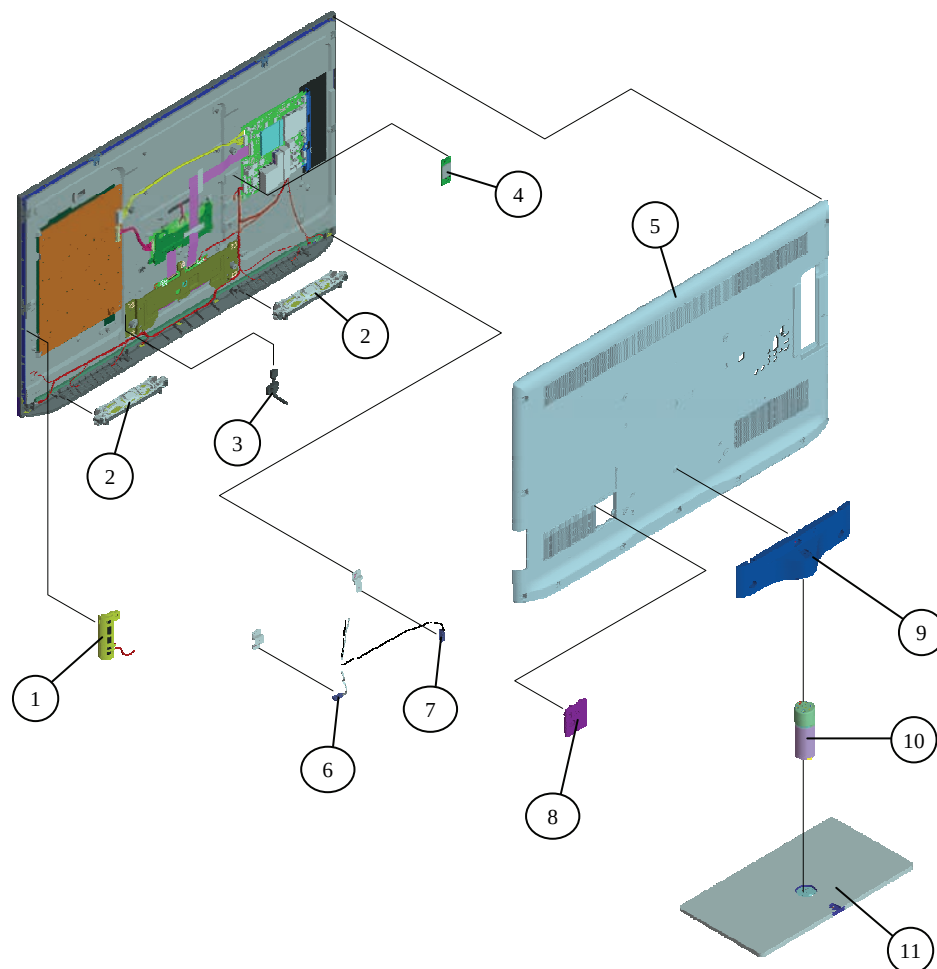


REF. No.	PART No.	DESCRIPTION	REMARK
20	FX0008101	BEZEL(37 CAS)	
21	FX0093501	HEM2 MOUNT	
22	FX0094001	HLR2 MOUNT(B-O-AEP)	
23	* FX0000711	FRENEL LENS	
24	FX0093901	HMS3_B MOUNT	
25	1-811-382-11	LCD PANEL (C370H4-LE1)	
26	FX0006101	BRACKET, PANEL (C)	
27	FX0006201	BRACKET, PANEL (H)	
28	FX0006401	SHEET, INSULATION (G10)	
29	⚠ FX0006511	STATIC CONVERTER (TV)-G10B	
30	FX0093701	LD_BLK A MOUNT	
31	🔒 FX0093801	BAT-V COMPL (SERVICE)	EX720(AEP)
	🔒 FX0094501	BAT-V COMPL (SERVICE)	EX725
	🔒 FX0094801	BAT-V COMPL (SERVICE)	EX723
	🔒 FX0095601	BAT-V COMPL (SERVICE)	EX720(IT)
32	FX0006021	BRACKET SIDE (BAT-V32)	

Note: When changing LCD Panel it may be necessary to order LABEL(BAT-V MOLD SIDE), please check Miscellaneous parts list for part number

5-3. KDL-40EX720/721/723/724/725/726/727/728/729

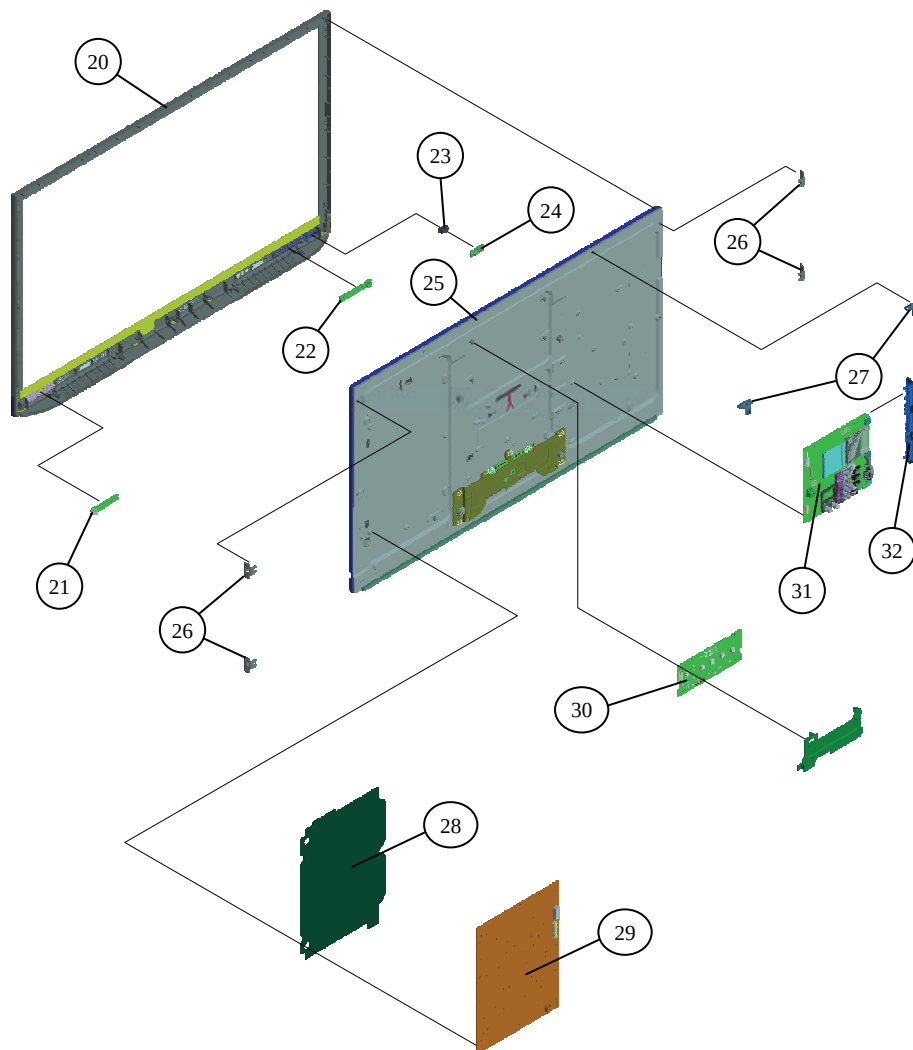
5-3-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	FX0006721	SWITCH UNIT	
2	FX0006911	LOUDSPEAKER (3X15CM)	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	EX723,4
4	FX0012011	WIRELESS LAN CARD	EX721,4,6,7,8,9
5	FX0009101	REAR COVER(40)	EX720,1,3,4
	FX0013311	REAR COVER(40)	EX725,6,7,8,9
6	FX0012211	ANTENNA	EX721,4,6,7,8,9
7	FX0012311	ANTENNA	EX721,4,6,7,8,9
8	△ FX0002711	COVER, AC(M)	
9	FX0007711	STAND HEAD (ML9)	
10	FX0007601	NECK (ML9)	
	FX0015911	NECK (ML9)	EX727
11	FX0008001	STAND, BASE (ML2)	EX720,3,5,6,9
	FX0012601	STAND, BASE A(ML1)	EX721,4,8
	FX0013411	STAND, BASE A(ML1)	EX727

5-3. KDL-40EX720/721/723/724/725/726/727/728/729

5-3-2. CHASSIS-2

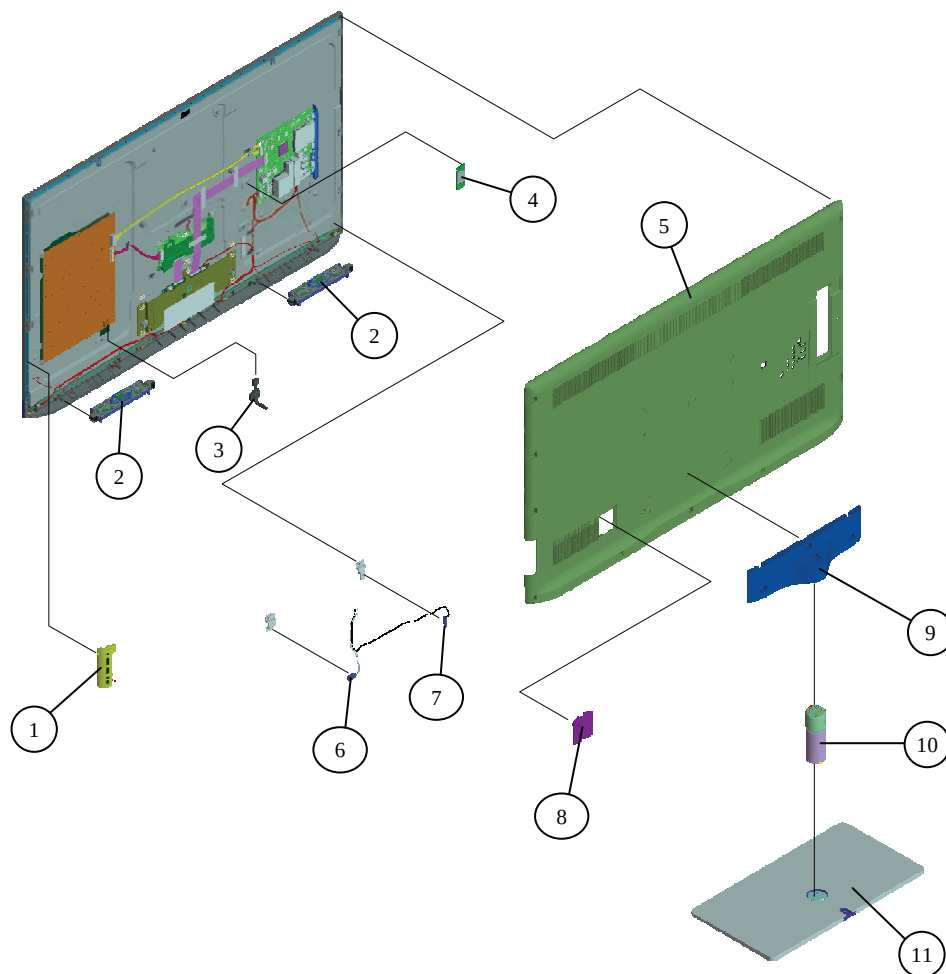


REF. No.	PART No.	DESCRIPTION	REMARK
20	FX0013001	BEZEL(40 CAS)	EX720,3,5
	FX0013221	BEZEL(40 CAS)	EX721,4,8
	FX0013541	BEZEL(40 CAS)	EX726,7
	FX0009351	BEZEL(40 CAS)	EX729
21	FX0093501	HEM2 MOUNT	
22	FX0094001	HLR2 MOUNT(B-O-AEP)	
23	* FX0000711	FRENEL LENS	
24	FX0093901	HMS3_B_MOUNT	
25	1-811-340-11	LCD PANEL (S40EDL) (S-LCD PANEL)	
	1-811-354-11	LCD PANEL (A40V1) (AUO PANEL)	
	1-811-481-11	LCD PANEL (C400HK2-LE1) (CMI PANEL)	
26	FX0006101	BRACKET, PANEL (C)	
27	FX0006201	BRACKET, PANEL (H)	
28	FX0008301	SHEET, INSULATION (G4)	
29	FX0008411	STATIC CONVERTER (TV)-G4B	
30	FX0093701	LD_BLK A MOUNT	
31	FX0093801	BAT-V COMPL (SERVICE)	EX720,1
	FX0094501	BAT-V COMPL (SERVICE)	EX725,6,7,8,9
	FX0094801	BAT-V COMPL (SERVICE)	EX723,4
	FX0095601	BAT-V COMPL (SERVICE)	EX720(IT)
	FX0096401	BAT-V COMPL (SERVICE)	EX725(IT)
32	FX0008221	BRACKET SIDE (BAT-V)MOLD	

Note: When changing LCD Panel it may be necessary to order LABEL(BAT-V MOLD SIDE), please check Miscellaneous parts list for part number

5-4. KDL-46EX720/721/723/724/725/726/727/728/729

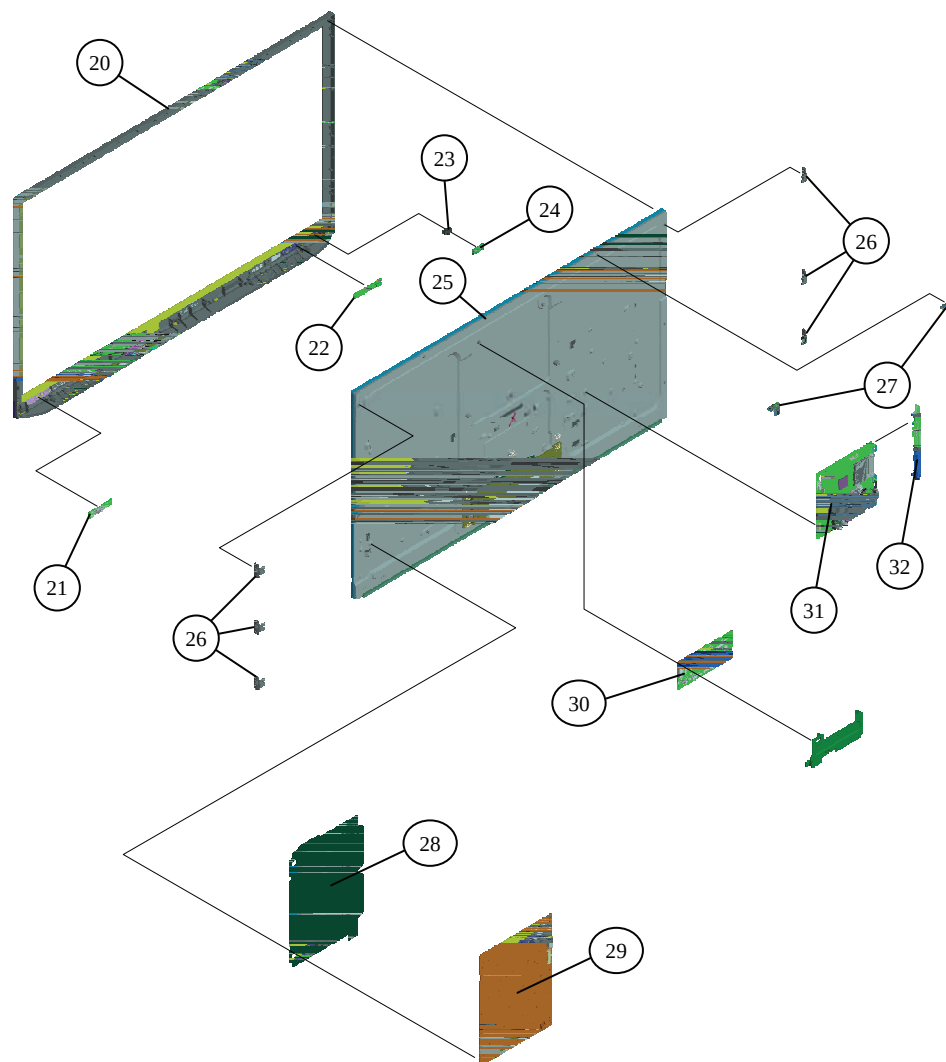
5-4-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	FX0006721	SWITCH UNIT	
2	FX0006911	LOUDSPEAKER (3X15CM)	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	EX723,4
4	FX0012011	WIRELESS LAN CARD	EX724,6,7,8,9
5	FX0016501	REAR COVER(46)	EX720,3,4
	FX0017011	REAR COVER(46)	EX725,6,7,8,9
6	FX0012211	ANTENNA	EX724,6,7,8,9
7	FX0012311	ANTENNA	EX724,6,7,8,9
8	△ FX0002711	COVER, AC(M)	
9	FX0007711	STAND HEAD (ML9)	
10	FX0009501	NECK (L9)	
11	FX0016611	STAND, BASE (L2)	EX720,3,5,6,9
	FX0009601	STAND, BASE A(L1)	EX721,4,8
	FX0009811	STAND, BASE A(L1)	EX727

5-4. KDL-46EX720/721/723/724/725/726/727/728/729

5-4-2. CHASSIS-2



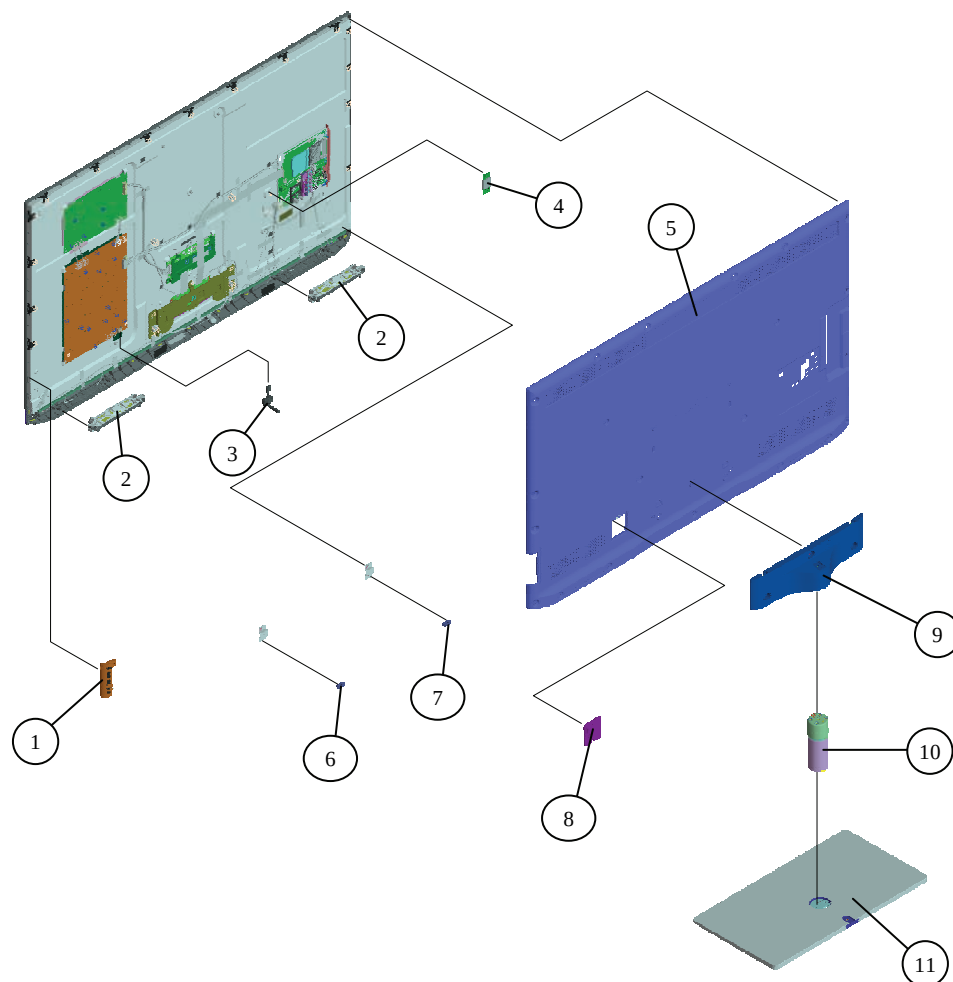
REF. No.	PART No.	DESCRIPTION	REMARK
20	FX0016701	BEZEL(46 CAS)	EX720,3,5
	FX0009721	BEZEL(46 CAS)	EX721,4,8
	FX0017241	BEZEL(46 CAS)	EX726,7
	FX0011951	BEZEL(46 CAS)	EX729
21	FX0093501	HEM2 MOUNT	
22	FX0094001	HLR2 MOUNT(B-O-AEP)	
23	* FX0000711	FRENEL LENS	
24	FX0093901	HMS3_B_MOUNT	
25	1-811-341-11	LCD PANEL (S46EDL) (S-LCD PANEL)	
	1-811-355-11	LCD PANEL (A46V2) (AUO PANEL)	
26	FX0006101	BRACKET, PANEL (C)	
27	FX0006201	BRACKET, PANEL (H)	
28	FX0008301	SHEET, INSULATION (G4)	
29	FX0009411	STATIC CONVERTER (TV)-G5D (for S-LCD PANEL)	
	FX0040612	STATIC CONVERTER (TV)-G5E (for AUO PANEL)	
30	FX0094101	LD_BLK B MOUNT	
31	FX0093801	BAT-V COMPL (SERVICE)	EX720,1
	FX0094501	BAT-V COMPL (SERVICE)	EX725,6,7,8,9
	FX0094801	BAT-V COMPL (SERVICE)	EX723,4
	FX0095601	BAT-V COMPL (SERVICE)	EX720(IT)
32	FX0008221	BRACKET SIDE (BAT-V)MOLD	

Note: When changing LCD Panel it may be necessary to order LABEL(BAT-V MOLD SIDE), please check Miscellaneous parts list for part number.

Note: Please check TB 11TV025 for LCD Panel or PSU compatibility information.

5-5. KDL-55EX720/721/723/725

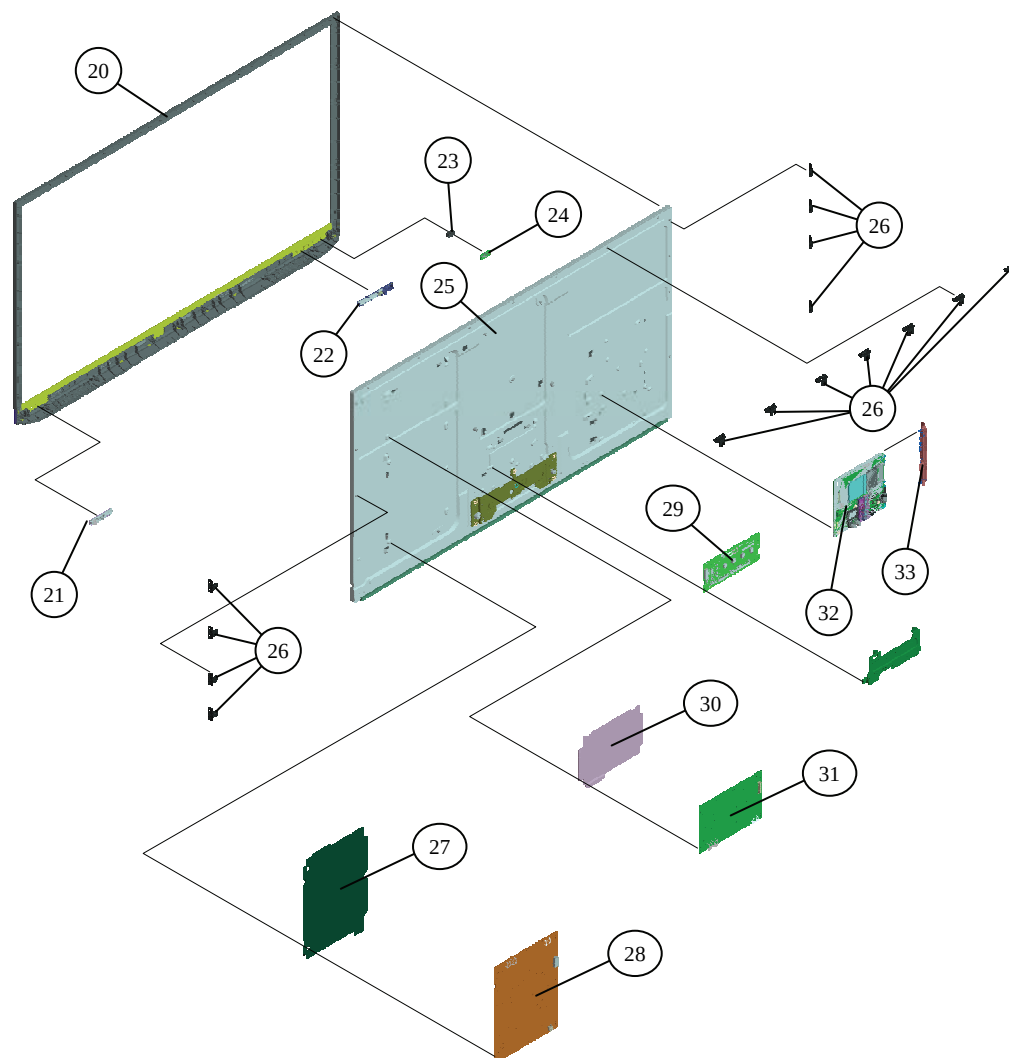
5-5-1. CHASSIS-1



REF. No.	PART No.	DESCRIPTION	REMARK
1	FX0006721	SWITCH UNIT	
2	FX0006911	LOUDSPEAKER (3X15CM)	
3	△ FX0000511	POWER-SUPPLY CORD (WITH CONN.)	
	△ FX0004012	POWER-SUPPLY CORD (WITH CONN.)	EX723
4	FX0012011	WIRELESS LAN CARD	EX721
5	FX0017501	REAR COVER (55 CAS) A	
	FX0017921	REAR COVER (55 CAS) A	EX721
6	FX0012211	ANTENNA	EX721
7	FX0017711	ANTENNA	EX721
8	△ FX0002711	COVER, AC(M)	
9	FX0007711	STAND HEAD (ML9)	
10	FX0011801	NECK (LL9)	
11	FX0011711	STAND, BASE (LL2)	
	FX0018101	STAND, BASE A(LL1)	EX721

5-5. KDL-55EX720/721/723/725

5-5-2. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	REMARK
20	FX0011601	BEZEL(55 CAS)	
	FX0018221	BEZEL(55 CAS)	EX721
21	FX0093501	HEM2 MOUNT	
22	FX0094001	HLR2 MOUNT(B-O-AEP)	
23	* FX0000711	FRENEL LENS	
24	FX0093901	HMS3_B MOUNT	
25	1-811-342-12	LCD PANEL (S55EDL)	
26	FX0010401	BRACKET, PANEL (M)	
27	FX0008301	SHEET, INSULATION (G4)	
28	⚠ FX0010711	STATIC CONVERTER (TV)-G6A	
29	FX0094101	LD_BLK B MOUNT	
30	FX0010501	SHEET, INSULATION (G7)	
31	⚠ FX0010611	STATIC CONVERTER (TV)-G8A	
32	🔒 FX0093801	BAT-V COMPL (SERVICE)	EX720,1
	🔒 FX0094501	BAT-V COMPL (SERVICE)	EX725
	🔒 FX0094801	BAT-V COMPL (SERVICE)	EX723
	🔒 FX0095601	BAT-V COMPL (SERVICE)	EX720(IT)
33	FX0010221	BRACKET SIDE (BAT-V) METAL	

Note: When changing LCD Panel it may be necessary to order LABELS, please check Miscellaneous parts list for part number

5-6. OTHER PARTS

5-6-1. MISCELLANEOUS

32 Inches

* FX0013711	FLEXIBLE FLAT CABLE N4 32S - (CN2001(BAT-V)-PANEL)
* FX0013999	CONNECTOR ASSY 14P - (CN6705(G10)-CN1002(BLK))
* FX0014002	CONNECTOR ASSY 28P - (CN6001(BAT-V)-CN6002(BAT-V)-CN6704(G10))
* FX0015406	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX721,4,6,7,8,9
* FX0014140	FLEXIBLE FLAT CABLE 56 PIN - (CN11(T-CON)-CN11(LD))
* FX0014248	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-WIFI-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX721,4,6,7,8,9
FX0002001	SHEET, RADIATION (BAT-L/V) - (Not shown)
FX0005901	CLAMPER, CABLE - (Not shown)
FX0007421	LABEL(BAT-V MOLD SIDE) - (Not shown)
FX0003991	BAG, SCREW ASSY (M) - (See note on page 143)

37 Inches

* FX0006811	FLEXIBLE FLAT CABLE N4 37S - (CN2001(BAT-V)-PANEL)
* FX0007049	CONNECTOR ASSY 14P - (CN6705(G10B)-CN1002(BLK))
* FX0007150	CONNECTOR ASSY 28P - (CN6001(BAT-V)-CN6002(BAT-V)-CN6704(G10B))
* FX0007252	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-HMS3-HEM2-SW/CN4601(BAT-V)-SP)
* FX0007354	FLEXIBLE FLAT CABLE 56 PIN - (CN11(T-CON)-CN1003(BLK))
FX0002001	SHEET, RADIATION (BAT-L/V) - (Not shown)
FX0005901	CLAMPER, CABLE - (Not shown)
FX0007421	LABEL(BAT-V MOLD SIDE) - (Not shown)
FX0003991	BAG, SCREW ASSY (M) - (See note on page 143)

40 Inches

* FX0008611	FLEXIBLE FLAT CABLE N4 40S - (CN2001(BAT-V)-PANEL)
* FX0008510	CONNECTOR ASSY 14P - (CN6801(G4B)-CN1002(BLK))
* FX0008712	CONNECTOR ASSY 28P - (CN6001(BAT-V)-CN6002(BAT-V)-CN6151(G4B))
* FX0012460	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-WIFI-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX721,4,6,7,8,9
* FX0008941	FLEXIBLE FLAT CABLE 56 PIN - (CN11(T-CON)-CN11(LD))
* FX0008816	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX720,3,5
FX0002001	SHEET, RADIATION (BAT-L/V) - (Not shown)
FX0005901	CLAMPER, CABLE - (Not shown)
FX0009021	LABEL, SHEET(BAT-V MOLD SIDE) - (Not shown)
FX0003991	BAG, SCREW ASSY (M) - (See note on page 143)

46 Inches

* FX0016011	FLEXIBLE FLAT CABLE N4 46S - (CN2001(BAT-V)-PANEL)
* FX0016119	CONNECTOR ASSY 14P - (CN6801(G5)-CN1002(BLK))
* FX0016222	CONNECTOR ASSY 28P - (CN6001(BAT-V)-CN6002(BAT-V)-CN6151(G5))
* FX0017171	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-WIFI-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX721,4,6,7,8,9
* FX0016442	FLEXIBLE FLAT CABLE 56 PIN - (CN11(T-CON)-CN1003(BLK))
* FX0016326	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX720,3,5
FX0002001	SHEET, RADIATION (BAT-L/V) - (Not shown)
FX0005901	CLAMPER, CABLE - (Not shown)
FX0009021	LABEL, SHEET(BAT-V MOLD SIDE) - (Not shown)
FX0001191	BAG, SCREW ASSY (L) - (See note on page 143)

55 Inches

* FX0010811	FLEXIBLE FLAT CABLE N4 55S - (CN2001(BAT-V)-PANEL)
* FX0011130	CONNECTOR ASSY 14P - (CN6700(G8)-CN1002(BLK))
* FX0011233	CONNECTOR ASSY 28P - (CN6001(G6)-CN6001(BAT-V)-CN6002(BAT-V)-CN8003(T-CON))
* FX0010921	CONNECTOR ASSY 2P - (CN6502(G6)-CN6601(G7/G8))
* FX0011021	CONNECTOR ASSY 2P - (CN6501(G6)-CN6600(G7/G8))
* FX0011545	CONNECTOR ASSY 7P - (CN6102(G6)-CN6701(G7/G8))
* FX0011443	FLEXIBLE FLAT CABLE 56 PIN - (CN11(T-CON)-CN1003(BLK))
* FX0011338	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX720,3,5
* FX0017879	HARNESS ASSY - (CN9006(BAT-V)-CN100(HLR2)-WIFI--HMS3-HEM2-SW/CN4601(BAT-V)-SP) - EX721
FX0002001	SHEET, RADIATION (BAT-L/V) - (Not shown)
FX0005901	CLAMPER, CABLE - (Not shown)
FX0017401	LABEL(BAT-V METAL SIDE) - (Not shown)
FX0017301	LABEL(BAT-V REAR) - (Not shown)
FX0017611	LABEL(BAT-V REAR) - (Not shown) - EX725
FX0001191	BAG, SCREW ASSY (L) - (See note on page 143)

5-6-2. COMMON PARTS

FX0003697	TAPE (3M 1350FW-1)15MMX66M WHTI) (to fix the wires to the LCD panel)
4-272-200-01	DOUBLE SIDED TAPE (PANEL)
4-281-014-01	DOUBLE SIDED TAPE (PANEL 10) (for 55inch panel)



5-6-3. ACCESSORIES

* FX0004112	MANUAL, INSTRUCTION - EX723,4 (GB)
* FX0004222	MANUAL, INSTRUCTION - EX720,1 (DE, ES, FR, NL, PT)
* FX0004332	MANUAL, INSTRUCTION - EX720,1,3,4 (BG, CZ, DK, FI, GR, HU, IT, NO, PL, RO, SE, SK, TR)
* FX0004442	MANUAL, INSTRUCTION - EX720 (RU, UA)
* FX0003071	MANUAL, INSTRUCTION - EX725,6 (CZ, DE, DK, FI, FR, IT, NO, PL, SE, SK)
* FX0003072	MANUAL, INSTRUCTION - EX725,6,7,8,9 (CZ, DE, DK, FI, FR, IT, NO, PL, SE, SK)
* FX0016951	MANUAL, INSTRUCTION - EX720 (IT)
FX0006611	REMOTE COMMANDER (RM-ED044) - EX720,3,5
FX0012111	REMOTE COMMANDER (RM-ED041) - EX721,4,6,7,8,9

Note

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

Screw, +PSW M5x16

Hex Wrench

User Screw ST

END

9-888-389-08

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

English
11FP7100-1
Made in U.K.
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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.

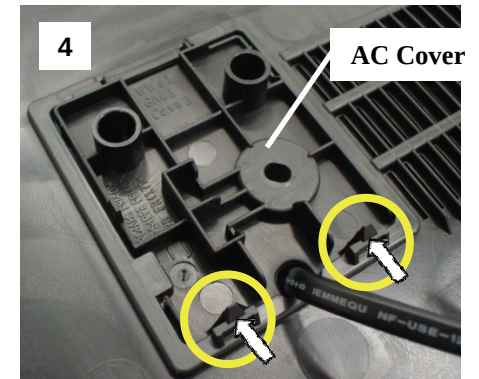
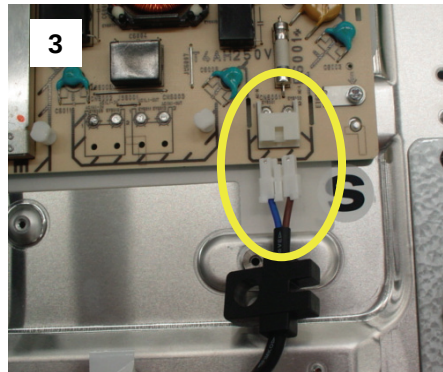
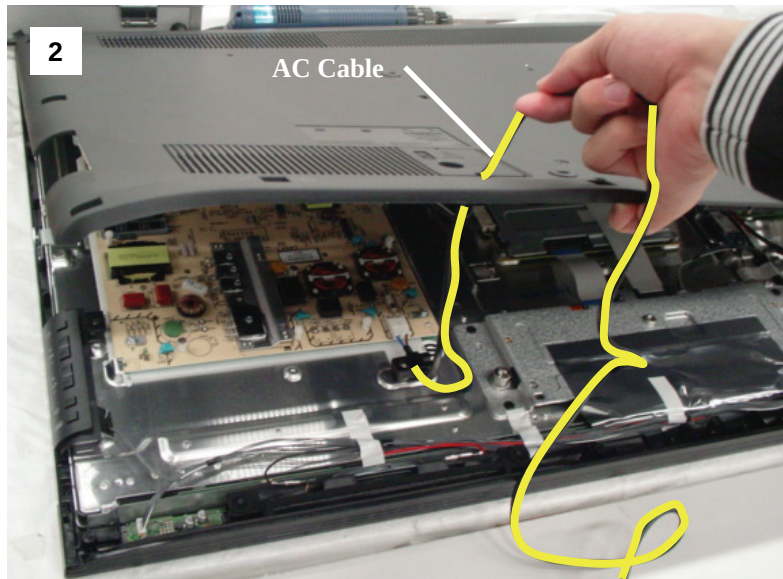
3. Release the AC cable connector.
4. Release the hooks of the COVER AC and remove it.

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.

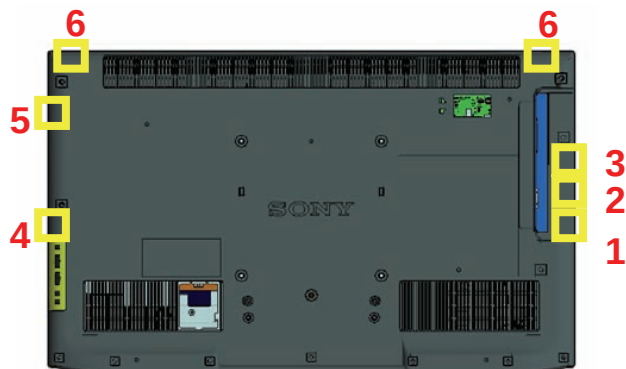
If the hooks are broken please replace with a new one.



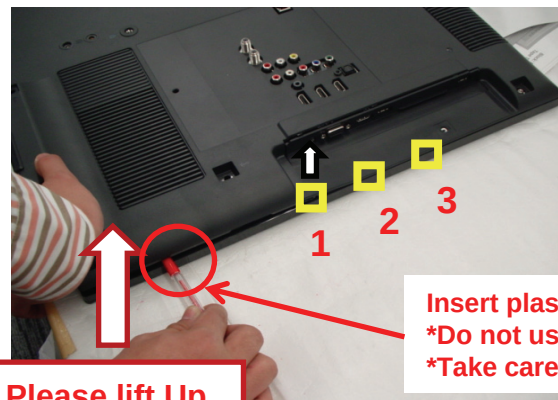
APPENDIX-1

PROCEDURE TO REMOVE THE REAR COVER (32)

1. Remove all the screws on the Rear Cover and the AC Cover.
2. Open the Rear Cover in the order as shown below.

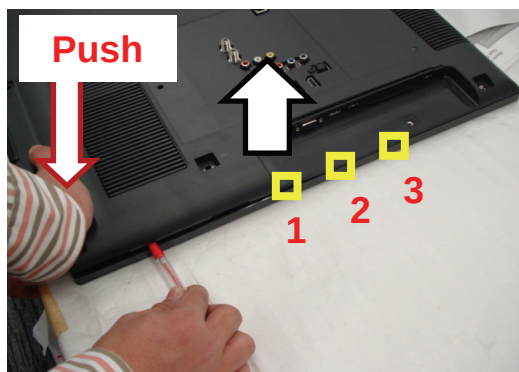


Notice:



Please lift Up
the minimum.

Insert plastic part (less than 15mm)
*Do not use metal one.
*Take care not to scratch parts.



PROCEDURE TO REMOVE THE REAR COVER (32)

3. Open the Rear Cover with the “COVER AC” and the AC cable attached.

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

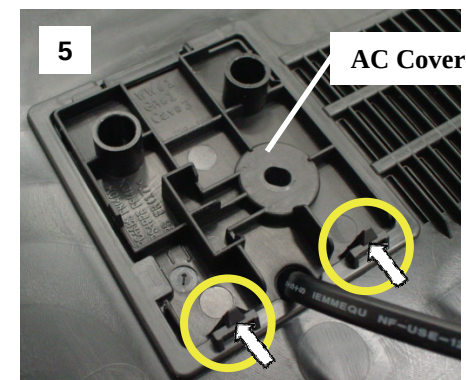
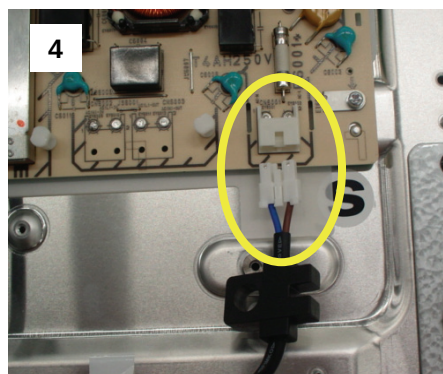
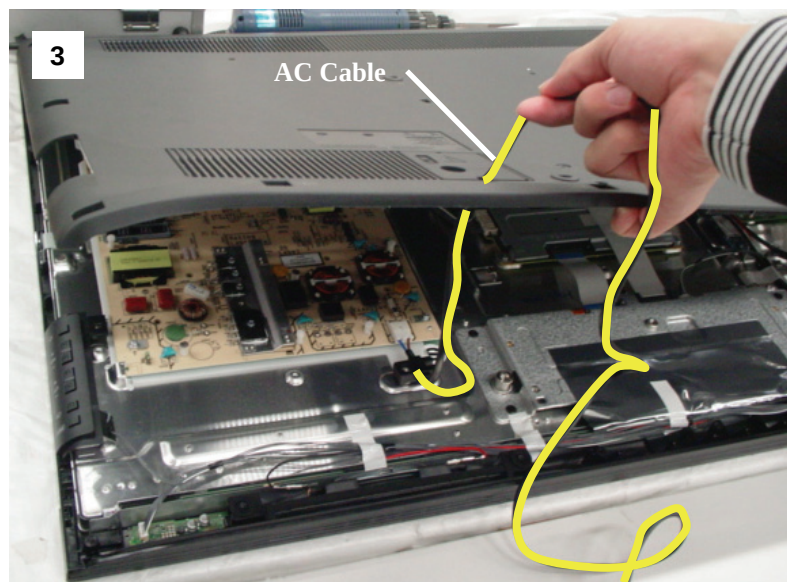
4. Release the AC cable connector.

5. Release the hooks of the “COVER AC” and remove it.

Note:

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

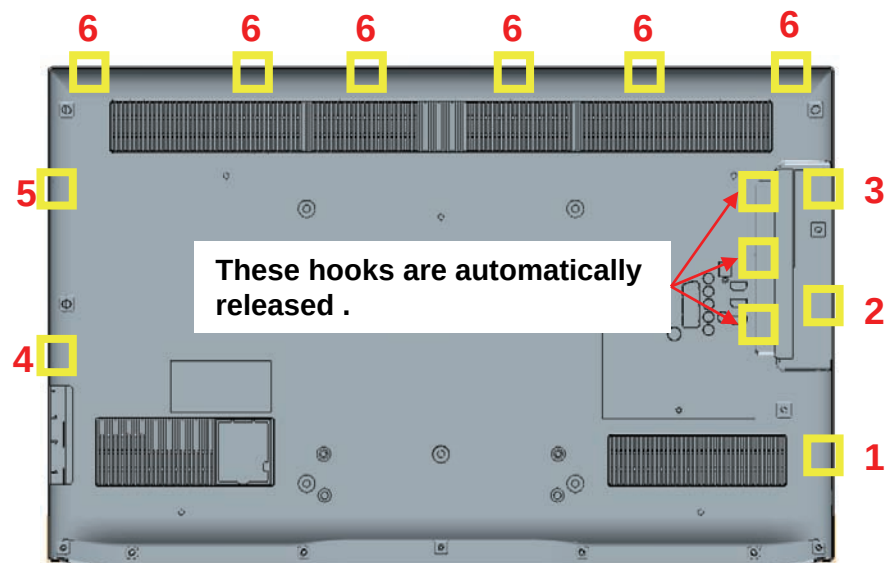
If the hooks are broken please replace with a new one.



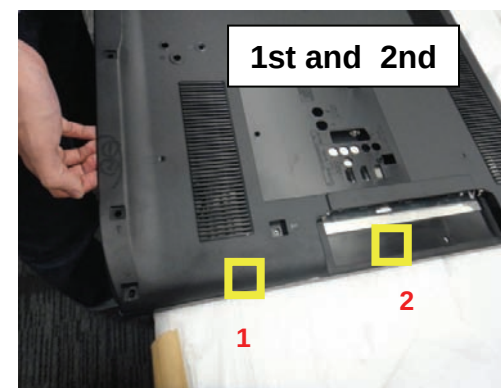
PROCEDURE TO REMOVE THE REAR COVER (37)

1. Remove all the screws on the Rear Cover and the AC Cover.
2. Open the Rear Cover in the order as shown below.

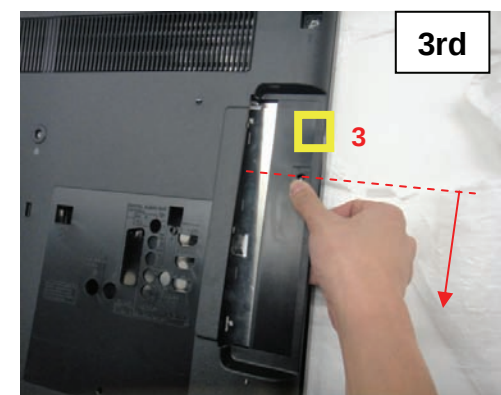
Note: Do not open quickly when hooks 1~6 are locked.



Notice:



Insert your hand in the place shown in picture.



Insert your hand below screw hole as shown in picture.
Open RC slowly with care.

PROCEDURE TO REMOVE THE REAR COVER (37)

3. Open the Rear Cover with the “COVER AC” and the AC cable attached.

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

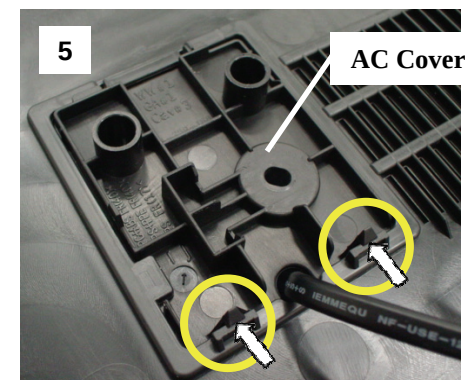
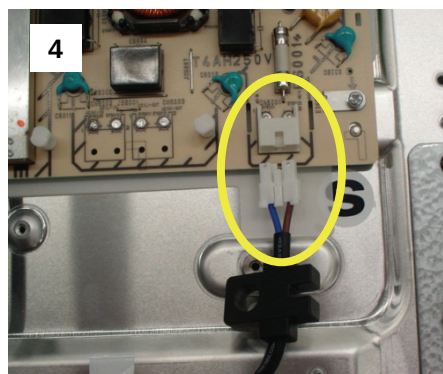
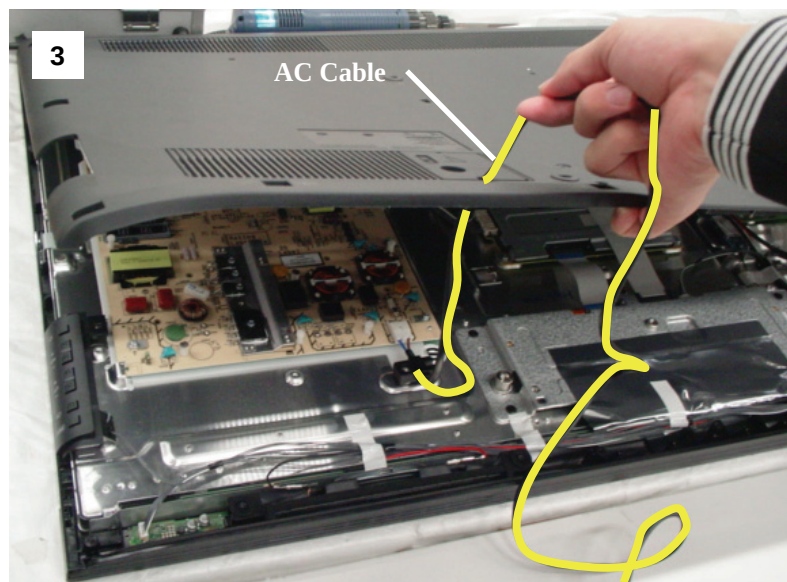
4. Release the AC cable connector.

5. Release the hooks of the “COVER AC” and remove it.

Note:

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

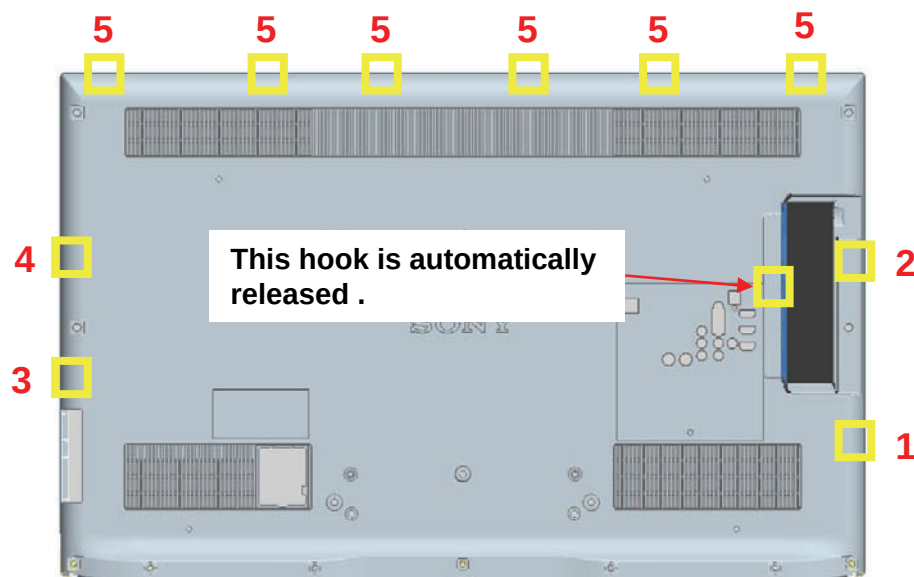
If the hooks are broken please replace with a new one.



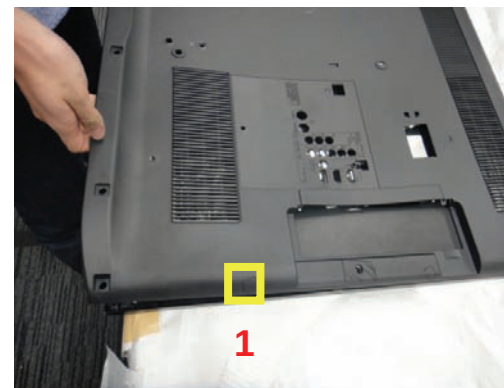
PROCEDURE TO REMOVE THE REAR COVER (40)

1. Remove all the screws on the Rear Cover and the AC Cover.
2. Open the Rear Cover in the order as shown below.

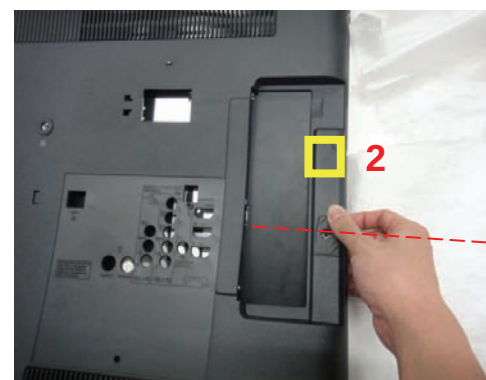
Note: Do not open quickly when hooks 1~5 are locked.



Notice:



Insert your hand in the place shown in picture.



Insert your hand below screw hole as shown in picture.
Open RC slowly with care.

PROCEDURE TO REMOVE THE REAR COVER (40)

3. Open the Rear Cover with the “COVER AC” and the AC cable attached.

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

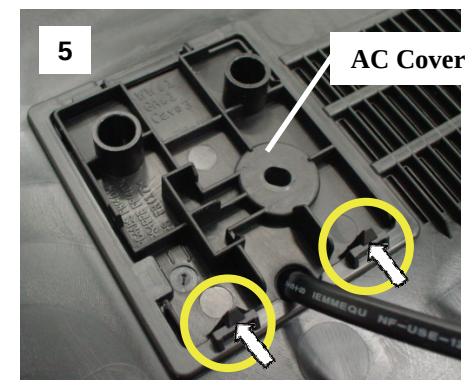
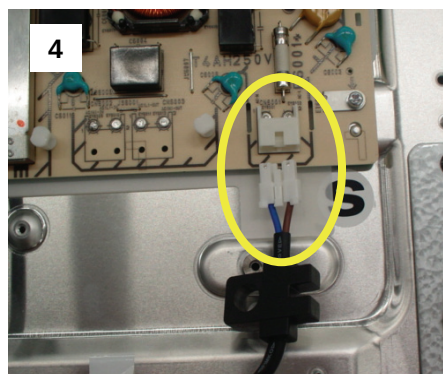
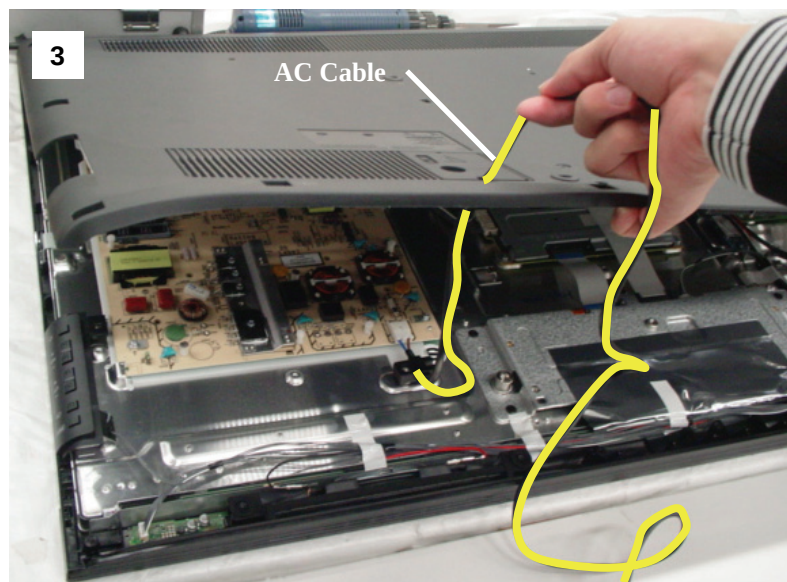
4. Release the AC cable connector.

5. Release the hooks of the “COVER AC” and remove it.

Note:

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

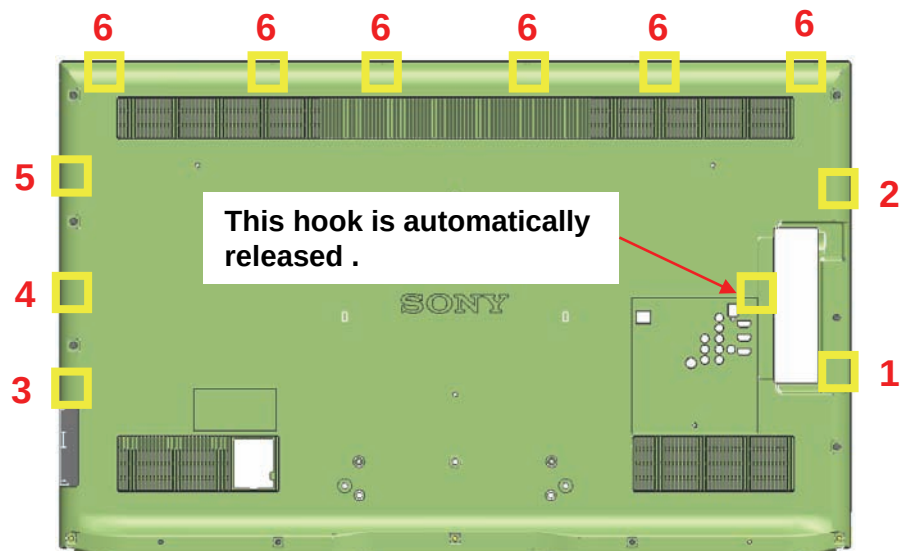
If the hooks are broken please replace with a new one.



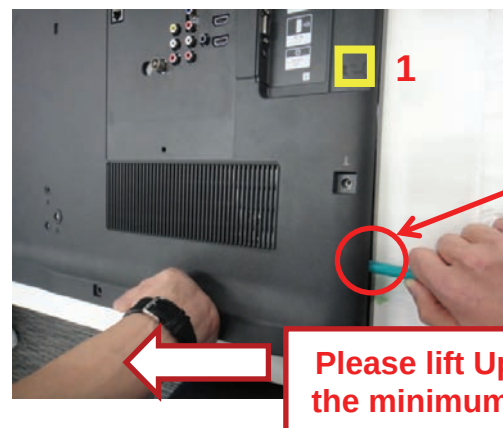
PROCEDURE TO REMOVE THE REAR COVER (46)

1. Remove all the screws on the Rear Cover and the AC Cover.
2. Open the Rear Cover in the order as shown below.

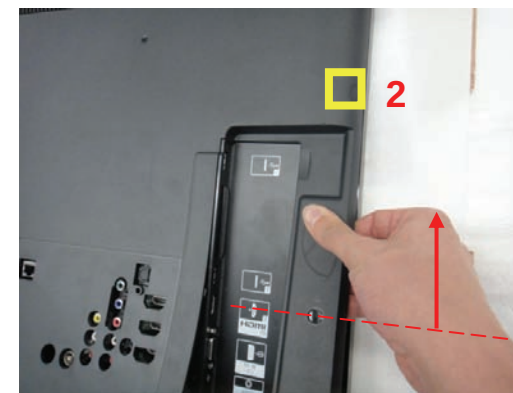
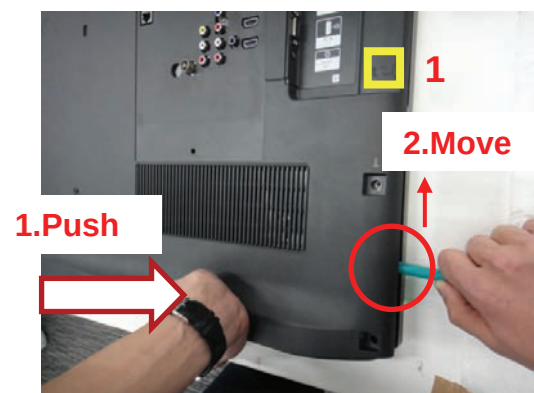
Note: Do not open quickly when hooks 1~6 are locked.



Notice:



Insert plastic part (less than 15mm)
 *Do not use metal one.
 *Take care not to scratch parts.



Insert your hand above screw hole as shown in picture.
 Open RC slowly with care.

PROCEDURE TO REMOVE THE REAR COVER (46)

3. Open the Rear Cover with the “COVER AC” and the AC cable attached.

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

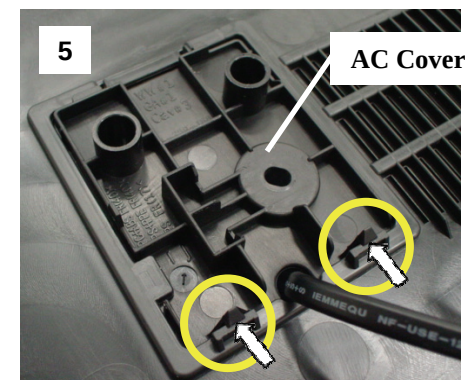
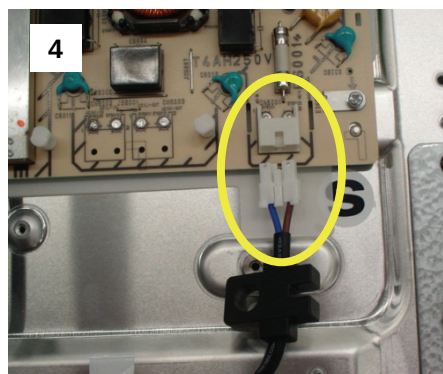
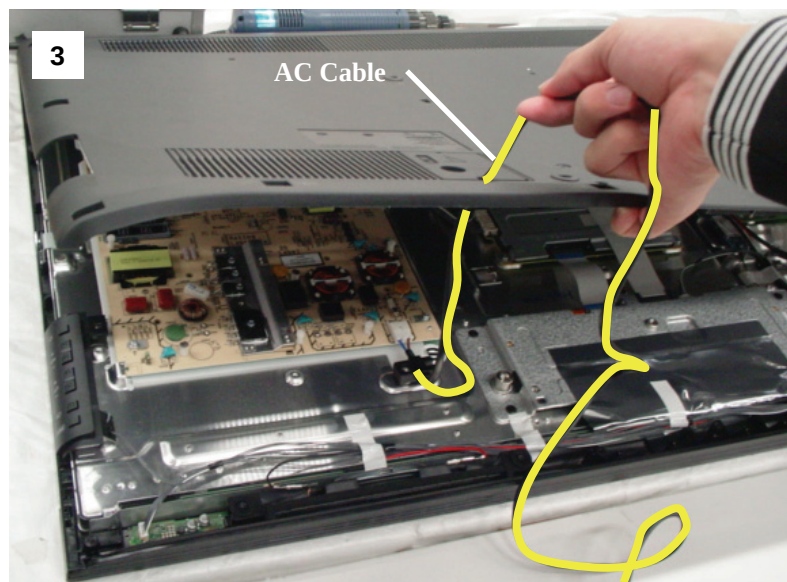
4. Release the AC cable connector.

5. Release the hooks of the “COVER AC” and remove it.

Note:

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

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



PROCEDURE TO ASSEMBLE THE REAR COVER (32)

1. Put the Rear Cover from top side.



Notice:



2. Push and confirm the locks in the order as shown below.



4
5
6



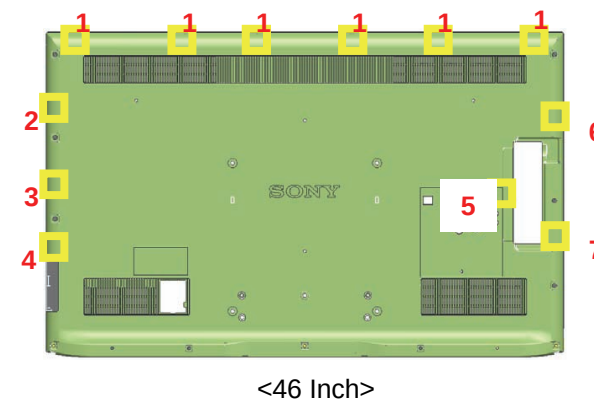
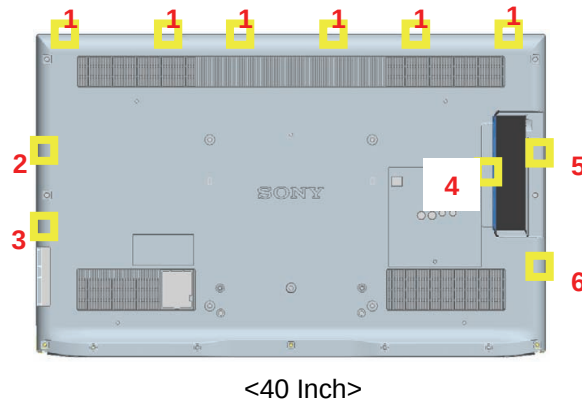
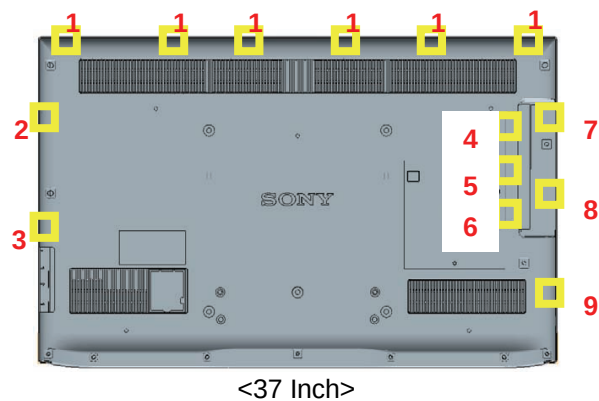
3. Confirm all the locks are fitting..

PROCEDURE TO ASSEMBLE THE REAR COVER (37 / 40 / 46)

1. Put the Rear Cover from top side.



2. Push and confirm the locks in the order as shown below.



3. Confirm all the locks are fitting..

APPENDIX-2

1. PROCEDURE TO REMOVE THE LCD PANEL FROM THE BEZEL ASSY

Peel off the double sided tape between the bezel assembly and the LCD panel when exchanging the LCD panel, etc, follow the instructions below.

<22/24/26 inch>

1.Release hooks of Bezel

Top



Side (L &R)



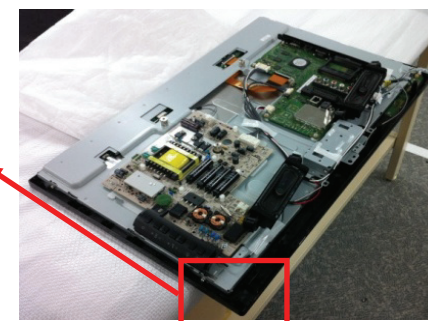
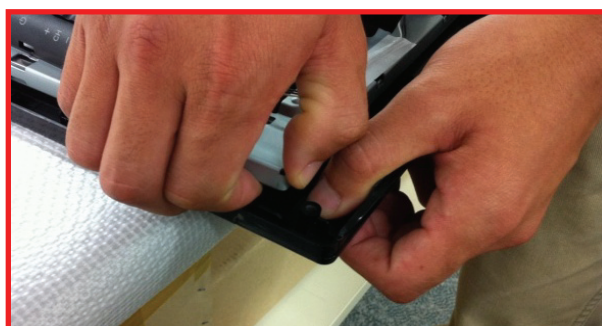
Cushion



Please release hooks of top and side.
and install a cushion to avoid hooks
restored.

2.Peel off the double sided tape

(1) Pull the Panel up and push down the Bezel as shown in the picture below.



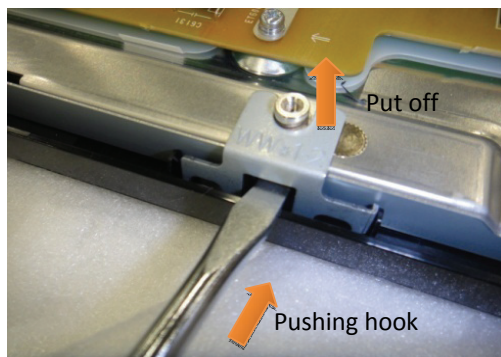
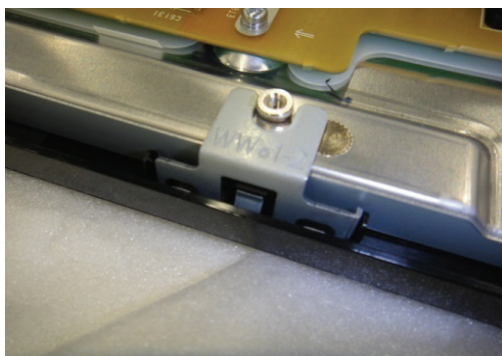
(2) Move hands along, peeling off tape, pull up and push down near the tape as you go along.



To peel off double sided tape between the bezel assembly and the panel, push the bezel down and pull the panel up.
To prevent breaking the panel it is prohibited to push the panel from front.

<32/37/40/46/55/60 inch>

1. Take off "Bracket, Panel"



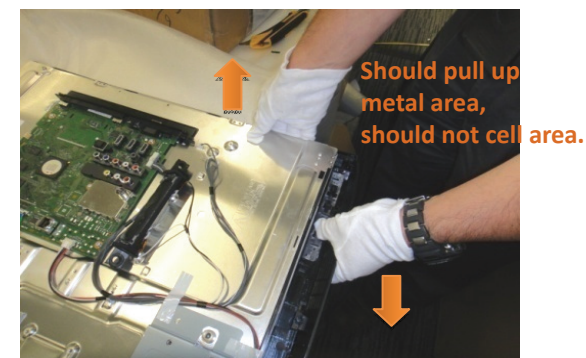
Take off "Bracket, Panel" by pushing bezel hook. The positions are shown on the following pages.

2. Peel off the double sided tape

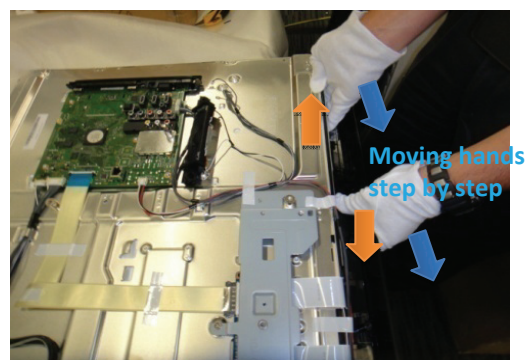
(1) Take off LED board to assist with tape peel off.



(2) Put hand between bezel and panel, pull panel up and push bezel down as shown in the picture.



(3) Moving hands along, peeling off tape, pull up and push down near the tape as you go along.



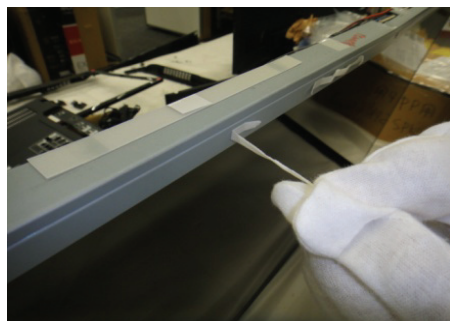
To peel off the double sided tape between the bezel assembly and the panel, push the bezel down and pull the panel up. To prevent breaking the panel it is prohibited to push the panel from the front.

2. EXCHANGING THE DOUBLE SIDED TAPE

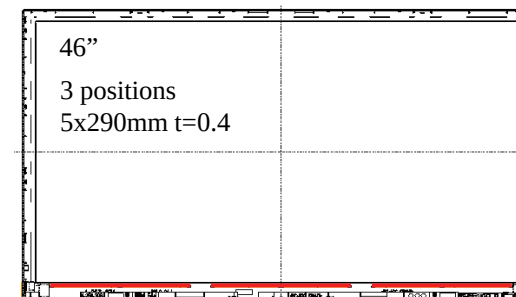
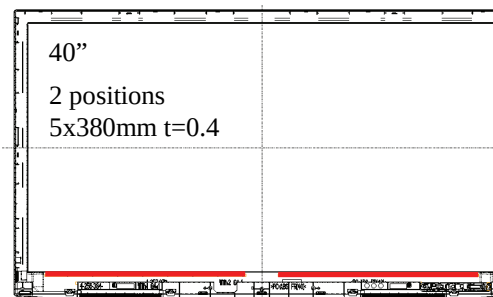
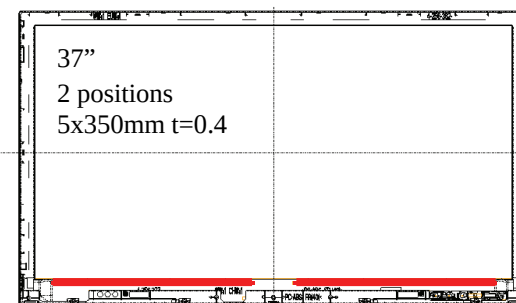
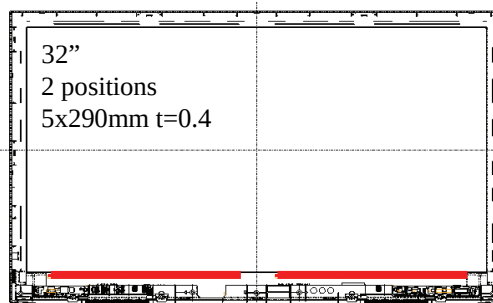
Because the double sided tape's strength weakens when the tape has been peeled off once, peel off all the tape from bezel assembly, and stick new ones on (P/N: 4-272-200-01).

<32/37/40/46 inch>

1. Peel off the double sided tape from the Panel.
(Possibly remains on the Bezel side)



2. Stick double sided tape.
Peel off separate papers before panel puts on.

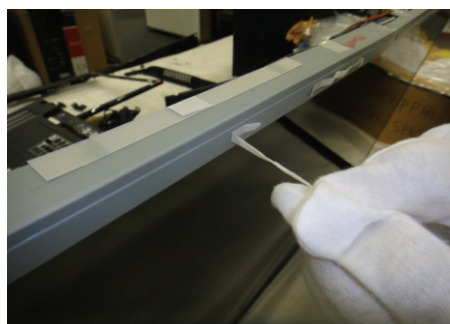


2. EXCHANGING THE DOUBLE SIDED TAPE

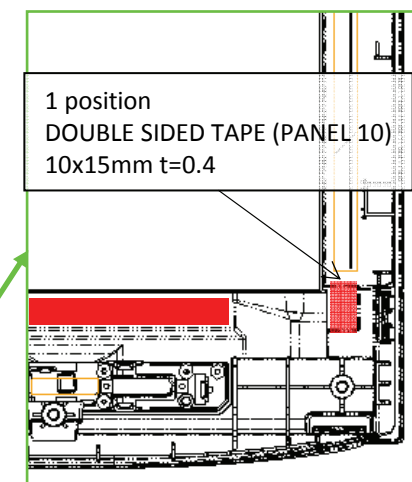
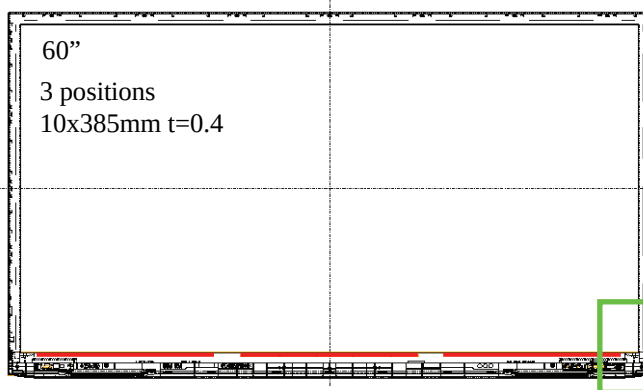
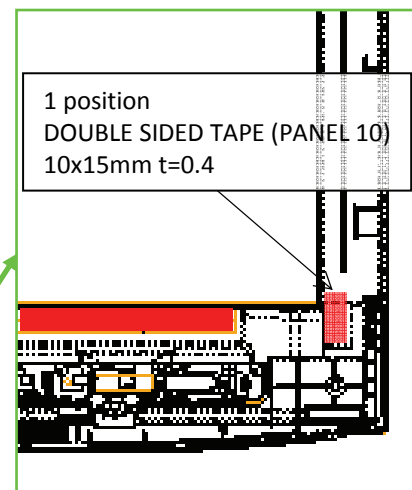
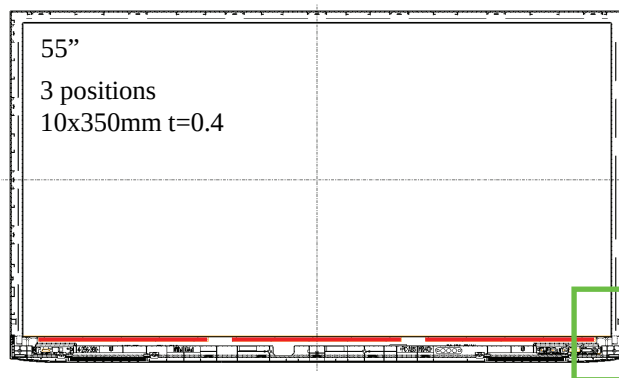
Because the double sided tape's strength weakens when the tape has been peeled off once, peel off all the tape from bezel assembly, and stick new ones on (P/N: 4-281-014-01).

< 55 / 60 inch >

1. Peel off the double sided tape from the Panel.
(Possibly remains on Bezel side)



2. Stick double sided tape.
Peel off separate papers before panel puts on.



3. PUTTING THE PANEL ON TO THE BEZEL

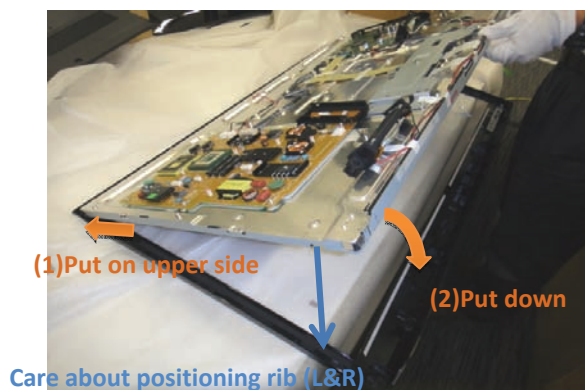
Pay attention to the double sided tape, put the panel on to the bezel assembly as shown below.

1. Putting Panel on to bezel

- (1) Put from upper side adjusting position to L/R side.
- (2) Down panel on to bottom caring about fitting bezel position ribs and panel cutout area.



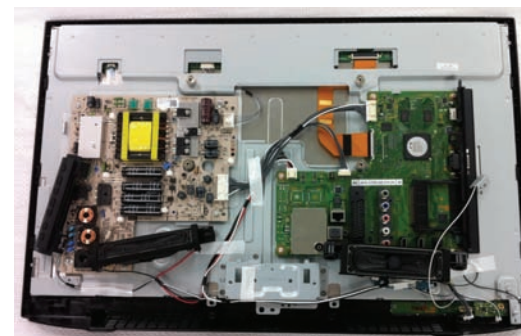
<22/24/26 inch>



<32/37/40/46/55/60 inch>

2. Lock with hooks of Bezel / Putting on "Bracket, panel"

Please lock Panel with hooks of Bezel.



<22/24/26 inch>

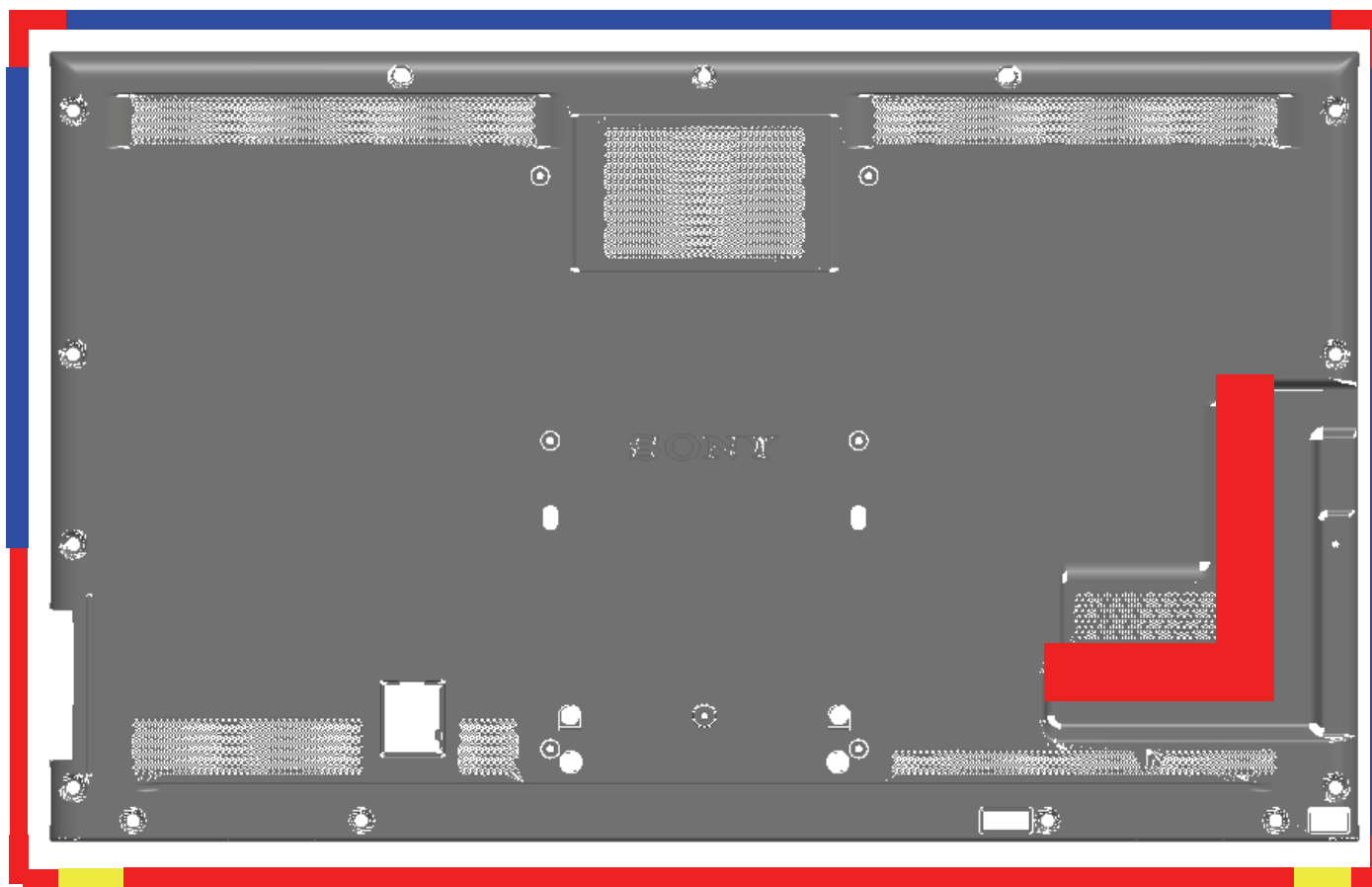
Put brackets and confirm fixed by hook.



<32/37/40/46/55/60 inch>

APPENDIX-3

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.)