



HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

ORIGINAL MANUAL ISSUE DATE: 3/2013

RB1FK CHASSIS

Segment: BA

Version	Date	Subject
1.0	3/2013	Original manual issue.
1.1	10/2013	Correction of Panel Selection in Service mode. (P.19)
2.1	2/2014	Correction of Appendix-4 (P.75, P.76)

LCD Digital Color TV

SONY®

9-888-532-03

MODEL LIST

<i>MODEL</i>	<i>COLOR</i>	<i>COMMANDER</i>	<i>DEST.</i>
KDL-32R420A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-32R421A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-32R423A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP/UK</i>
KDL-32R424A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-40R470A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-40R471A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-40R473A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP/UK</i>
KDL-40R474A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-46R470A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP</i>
KDL-46R473A	<i>Black</i>	<i>RM-ED054</i>	<i>AEP/UK</i>

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

- ENGLISH

CAUTION

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

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

WARNING!!

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

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

CARRYING THE TV

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

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

SAFETY-RELATED COMPONENT WARNING!!

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

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

WARNINGS AND CAUTIONS

- FRENCH

ATTENTION!!

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

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

WARNING!!

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

POUR TRANSPORTER LE TÉLÉVISEUR

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

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

ALERTE!!

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

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

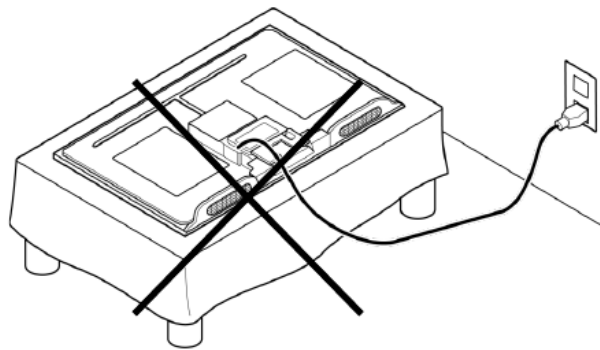
Les composants identifiés par une trame et par une marque ! sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel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

USE CAUTION WHEN HANDLING THE LCD PANEL

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

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

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



SAFETY CHECK-OUT

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

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

Leakage Test

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

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

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

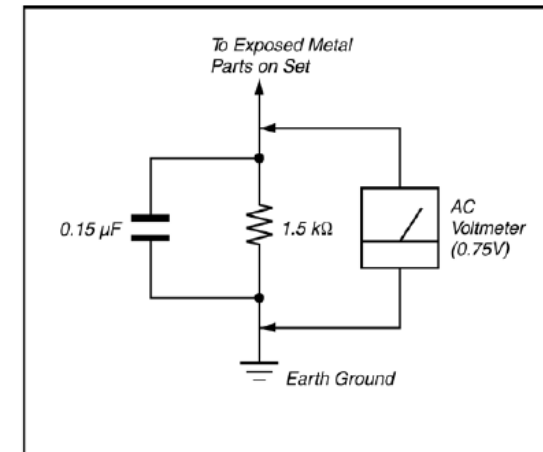


Figure A. Using an AC voltmeter to check AC leakage.

How to Find a Good Earth Ground

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

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

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

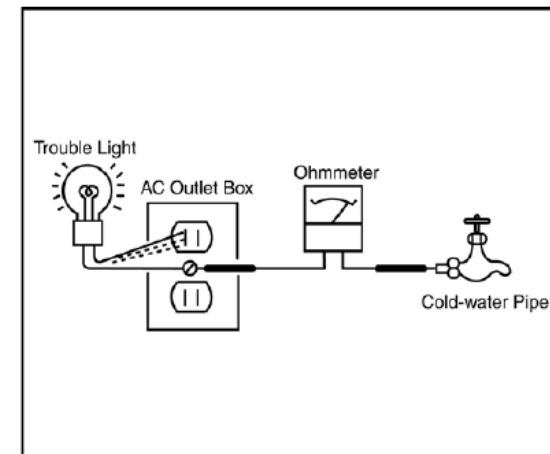


Figure B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

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

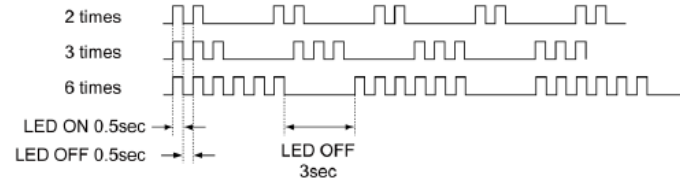
If there is more than one error, the LED will identify the first of the problem areas.

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

[FLASH COUNT]



Note: One flash counts is not self-diagnostic.

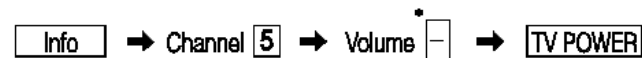
STBY LED Flash time	Service menu Item name (Screen Display)	Diagnostic Item Description
2	MAIN_POWER	Detect power board 12V. (V_DROP_DET)
3	TUNER_ERR	Detect TS signal Error.
	AUDIO_PROT	Detect Audio Amp Error.
	DC_ALERT1	Detect +3.3V+5V Drop. (V_DROP_DET)
4	BALANCER_ERR	Not used
5	TCON_ERR	Not used
	PANEL_POWE	Not used
6	BACKLIGHT_ERR	Detect panel backlight ready.
7	TEMP_ERR	Not used
8	-	Not used
9	-	Not used
10	-	Not used
11	-	Not used
12	-	Not used

SELF-DIAGNOSTIC SCREEN DISPLAY

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

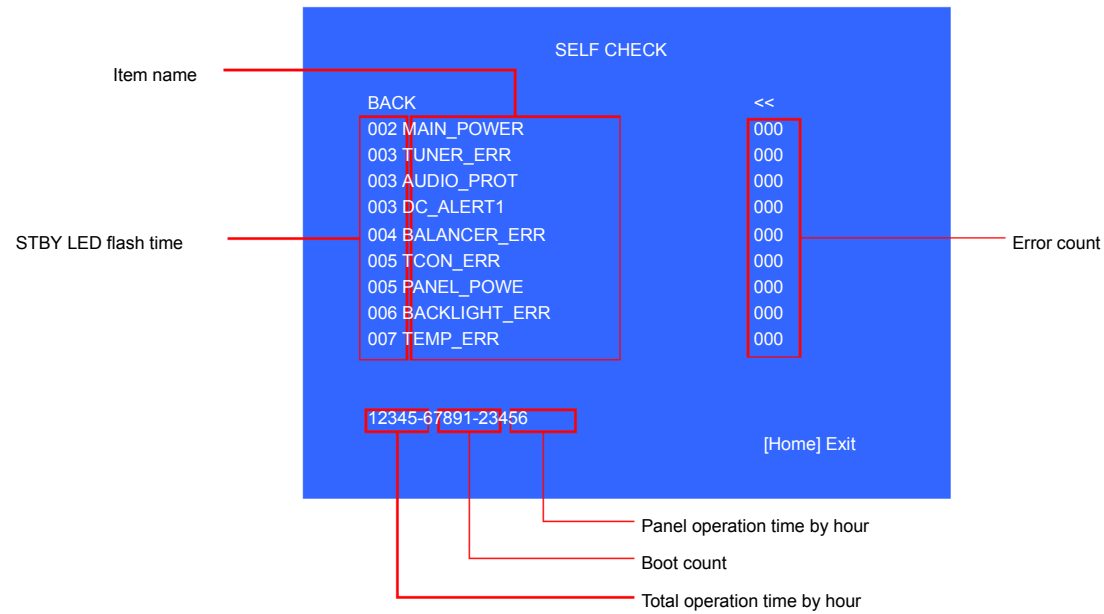
[To Bring Up Screen Test]

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



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

[SELF DIAGNOSTIC SCREEN DISPLAY]



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 AND PARTS LIST

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

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

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

Note: About the wire dressing, please refer to "APPENDIX-1".

Note: About the tape position, please refer to "APPENDIX-2".

Note: About the procedure of switch unit disassembly method, please refer to "APPENDIX-3".

1-1. KDL-32R420A/421A/423A/424A

1-1-1. STAND SHAFT

REF. No.	PART No.	DESCRIPTION	MARK
1	4-446-634-01	STAND SHAFT (M2)	
2	4-459-441-51	COVER, UNDER (32FANF)	for KDL-32R423A(UK)
	4-459-441-61	COVER, UNDER (32FANF)	for KDL-32R420A/421A/ 423A(AEP)/424A



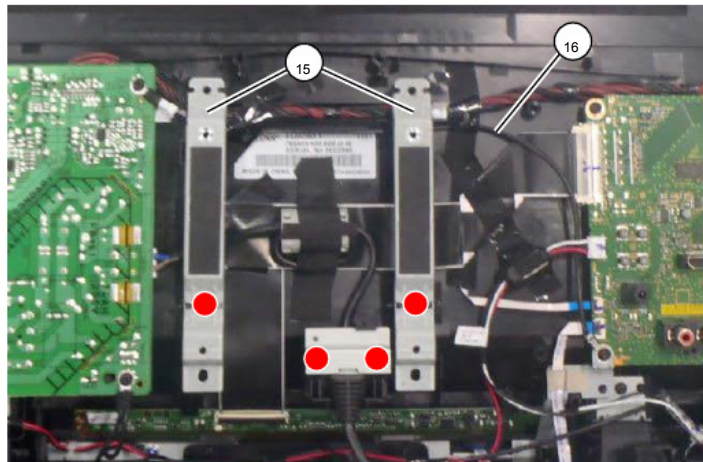
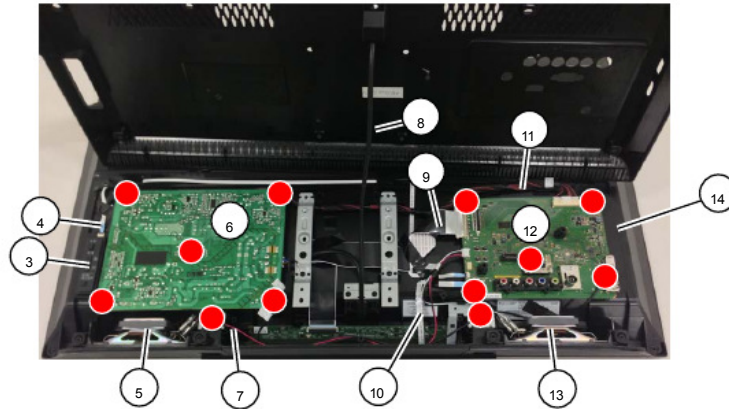
- △ 2-580-608-11 SCREW, +PSW M5X16
- 2-580-639-01 SCREW, +BVTP 4X12 TYPE2 IT-3
- ★ 7-685-647-79 SCREW +BVTP 3X10 TYPE2 IT-3

1-1-2. COVER, UNDER



1-1. KDL-32R420A/421A/423A/424A

1-1-3. GL3 BOARD, A BOARD, SPEAKER AND VESA BRACKET



REF. No.	PART No.	DESCRIPTION	MARK
3	1-492-329-21	SWITCH UNIT	
4	1-910-108-04	FFC CABLE 32 MB-KEY 6P	
5	1-858-888-21	LOUD SPEAKER (R) 40X100MM	
6	1-474-486-11	GL3(ID)-STATIC CONVERTER(TV)	
7	1-910-107-98	CONNECTOR ASSY 32 MB-SP LR 4P	
8	1-846-662-11	POWER-SUPPLY CORD	for KDL-32R420A/421A /423A(AEP)/424A
	1-846-663-11	POWER-SUPPLY CORD	for KDL-32R423A(UK)
9	1-910-108-02	FFC CABLE 32 MB-TCON 30P	
10	1-910-108-03	FFC CABLE 32 MB-IR 10P	
11	1-910-107-97	CONNECTOR ASSY 32 MB-PSU 14P	
12	1-895-375-11	MOUNTED PWB A	for KDL-32R420A/421A
	1-895-375-21	MOUNTED PWB A	for KDL-32R423A(AEP)/424A
	1-895-375-31	MOUNTED PWB A	for KDL-32R423A(UK)
13	1-858-888-11	LOUD SPEAKER (L) 40X100MM	
14	A-1939-532-A	LCM ASSY (32FANFY MR) EU	for KDL-32R420A/423A
	A-1939-533-A	LCM ASSY (32FANFY HL) EU	for KDL-32R421A/424A
15	4-459-475-21	BRACKET, VESA (FANF)	
16	1-910-107-99	GROUND CABLE 32 MB-PSU (M)	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

1-2. KDL-40R470A/471A/473A/474A

1-2-1. STAND SHAFT



REF. No.	PART No.	DESCRIPTION	MARK
1	4-446-635-01	STAND SHAFT (ML2)	
2	4-459-446-51	COVER, UNDER (40FANF)	for KDL-40R473(UK)
	4-459-446-61	COVER, UNDER (40FANF)	for KDL-40R470A/471A /473(AEP)/474A

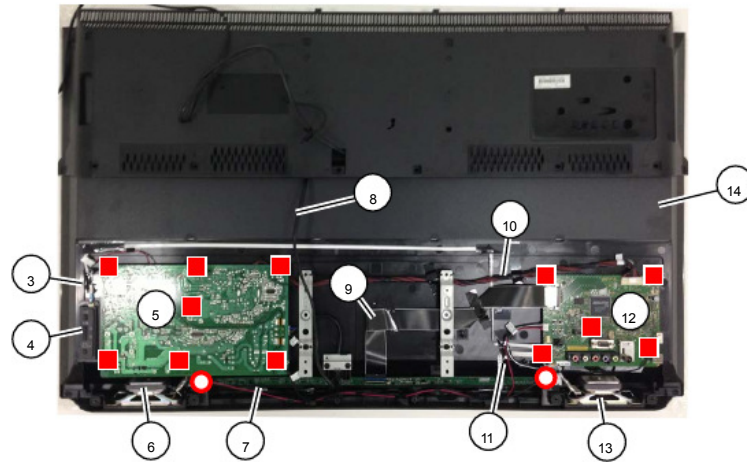
- △ 2-580-608-11 SCREW, +PSW M5X16
- 2-580-639-01 SCREW, +BVTP 4X12 TYPE2 IT-3
- ★ 7-685-647-79 SCREW +BVTP 3X10 TYPE2 IT-3

1-2-2. COVER, UNDER

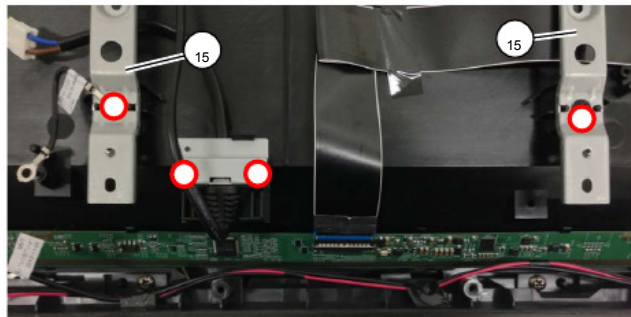


1-2. KDL-40R470A/471A/473A/474A

1-2-3. GL4 BOARD, A BOARD AND SPEAKER



1-2-4. VESA BRACKET



REF. No.	PART No.	DESCRIPTION	MARK
3	1-910-108-12	FFC CABLE 40 MB-KEY 6P	
4	1-492-329-21	SWITCH UNIT	
5	▲ 1-474-487-11	GL4(CH)-STATIC CONVERTER (TV)	
6	1-858-888-21	LOUD SPEAKER (R) 40X100MM	
7	1-910-108-06	CONNECTOR ASSY 40 MB-SP LR 4P	
8	▲ 1-846-662-11	POWER-SUPPLY CORD	for KDL-40R470A/471A /473A(AEP)/474A
	▲ 1-846-663-11	POWER-SUPPLY CORD	for KDL-40R473A(UK)
9	1-910-108-10	FFC CABLE 40 MB-TCON 51P	
10	1-910-108-05	CONNECTOR ASSY 40 MB-PSU 14P	
11	1-910-108-11	FFC CABLE 40 MB-IR 10P	
12	▲ 1-895-375-41	MOUNTED PWB A	for KDL-40R470A/471A
	▲ 1-895-375-51	MOUNTED PWB A	for KDL-40R473A(AEP)/474A
	▲ 1-895-375-61	MOUNTED PWB A	for KDL-40R473A(UK)
13	1-858-888-11	LOUD SPEAKER (L) 40X100MM	
14	▲ A-1939-535-A	LCM ASSY (40FANFY MR) EU	for KDL-40R470A/473A
	▲ A-1939-536-A	LCM ASSY (40FANFY HL) EU	for KDL-40R471A/474A
15	4-459-475-21	BRACKET, VESA (FANF)	

- 7-685-646-79 SCREW, +BVTP 3X8 TYPE2 IT-3
- 2-580-639-01 SCREW, +BVTP 4X12 TYPE2 IT-3

1-3. KDL-46R470A/473A

1-3-1. STAND SHAFT

REF. No.	PART No.	DESCRIPTION	MARK
1	4-446-636-01	STAND SHAFT (L2)	
2	4-459-473-51	COVER, UNDER (46FANF)	for KDL-46R473A(UK)
	4-459-473-61	COVER, UNDER (46FANF)	for KDL-46R470A/473A(AEP)



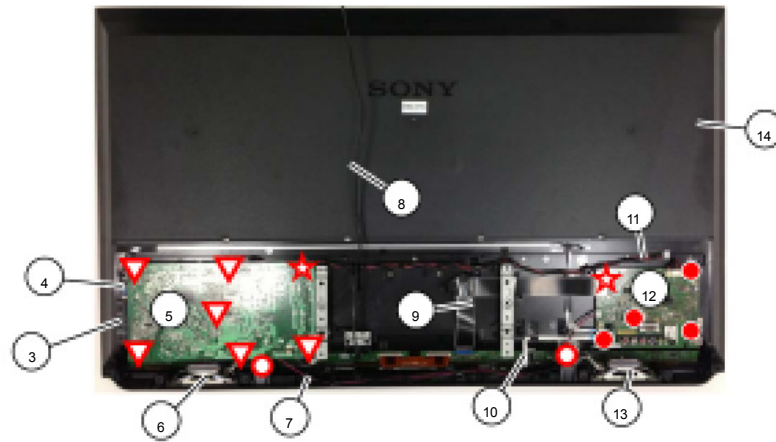
1-3-2. COVER, UNDER

- △ 2-580-608-11 SCREW, +PSW M5X16
- 2-580-639-01 SCREW, +BVTP 4X12 TYPE2 IT-3
- ★ 7-685-647-79 SCREW +BVTP 3X10 TYPE2 IT-3



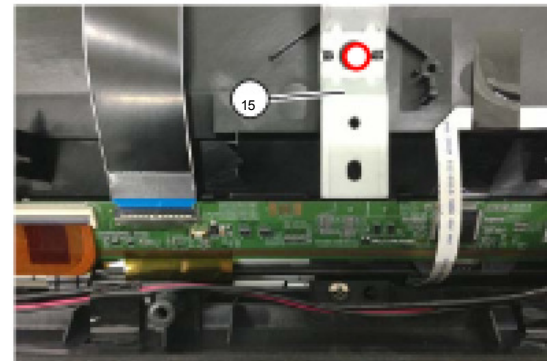
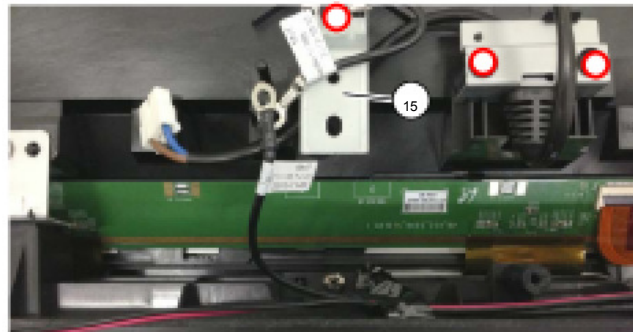
1-3. KDL-46R470A/473A

1-3-3. GL5 BOARD, A BOARD AND SPEAKER



REF. No.	PART No.	DESCRIPTION	MARK
3	1-492-329-21	SWITCH UNIT	
4	1-910-108-20	FFC CABLE 46 MB-KEY 6P	
5	▲ 1-474-488-11	GL5(CH)-STATIC CONVERTER (TV)	
6	1-858-888-21	LOUD SPEAKER (R) 40X100MM	
7	1-910-108-14	CONNECTOR ASSY 46 MB-SP LR 4P	
8	▲ 1-846-662-11	POWER-SUPPLY CORD	for KDL-46R470A/473A(AEP)
	▲ 1-846-663-11	POWER-SUPPLY CORD	for KDL-46R473A(UK)
9	1-910-108-18	FFC CABLE 46 MB-TCON 51P	
10	1-910-108-19	FFC CABLE 46 MB-IR 10P	
11	1-910-108-13	CONNECTOR ASSY 46 MB-PSU 14P	
12	■ 1-895-375-41	MOUNTED PWB A	for KDL-40R470A
	■ 1-895-375-51	MOUNTED PWB A	for KDL-46R473A(AEP)
	■ 1-895-375-61	MOUNTED PWB A	for KDL-46R473A(UK)
13	1-858-888-11	LOUD SPEAKER (L) 40X100MM	
14	▲ A-1939-537-A	LCM ASSY (46FANFY MR) EU	for KDL-46R470A/473A
15	4-459-475-31	BRACKET, VESA (FANF)	
	●	7-685-646-79	SCREW, +BVTP 3X8 TYPE2 IT-3
	★	4-465-806-01	GEAR SCREW M3X5 22
	○	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3
	▽	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3

1-3-4. VESA BRACKET



1-4. OTHER PART**1-4-1. MISCELLANEOUS**

PART No.	DESCRIPTION	MARK
1-492-067-11	REMOTE COMMANDER (RM-ED054)	
4-458-514-11	MANUAL, INSTRUCTION	GB
4-458-514-21	MANUAL, INSTRUCTION	FR/ES/NL/DE/PT
4-458-514-31	MANUAL, INSTRUCTION	NO/FI/DK/SE
4-458-514-41	MANUAL, INSTRUCTION	PL/HU/CZ/SK/RO/BG/GR/IT
4-458-514-91	MANUAL, INSTRUCTION	RU/UA
4-459-474-21	BRACKET, VESA TOP LONG A (46FAN)	for wall mount (46inch only)
2-580-602-01	SCREW, +PSW M4X12 (VESA L FAN)	for wall mount (46inch only)

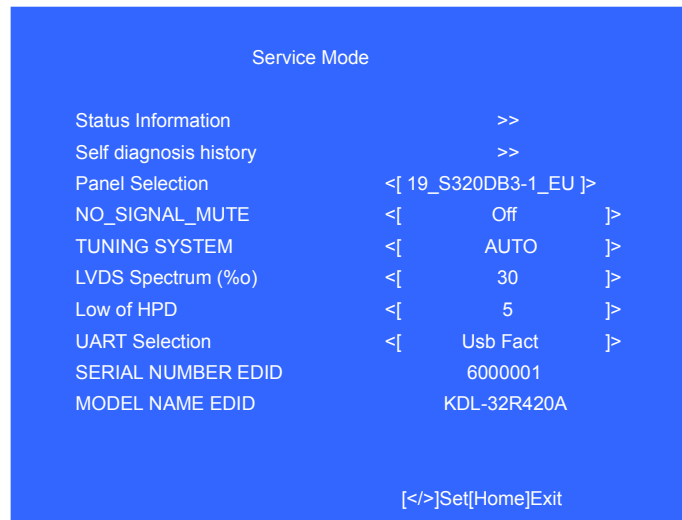
SEC 2. ADJUSTMENT

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.

Info → Channel 5 → Volume + → TV POWER

- 3) Service mode display.



Panel Selection	MODEL NAME EDID
19_S320DB3-1_EU	KDL-32R420A KDL-32R421A KDL-32R423A KDL-32R424A
18_S400DH1-1_EU	KDL-40R470A KDL-40R471A KDL-40R473A KDL-40R474A
48_S460DH1-1_EU	KDL-46R470A KDL-46R473A

- When replace Main Board or panel, please confirm "Panel Selection" and "MODEL NAME EDID" in service mode. If they are different, please select a suitable thing.
- Change of SERIAL NUMBER EDID and MODEL NAME EDID are possible only once when they are white character.

Note: About the software data update, please refer to "APPENDIX-4".

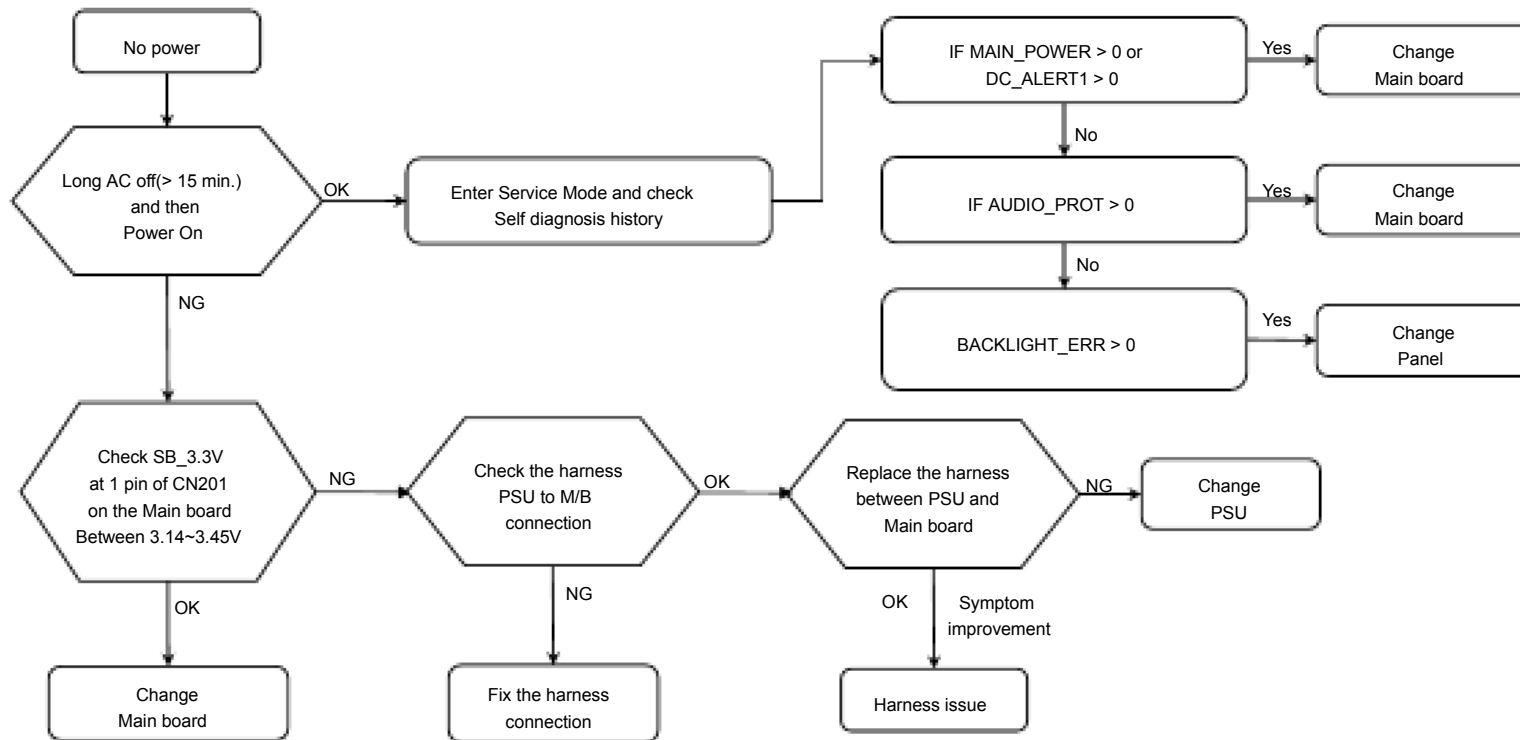
4) How to use the remote commander.

Function	The flow of control
Service mode on	<Info><5><Vol Up><Power>
Service mode off	<Other> / <Power off + on>
Adjustment Item up / down	↑ / ↓
Data Value up / down	← / →

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

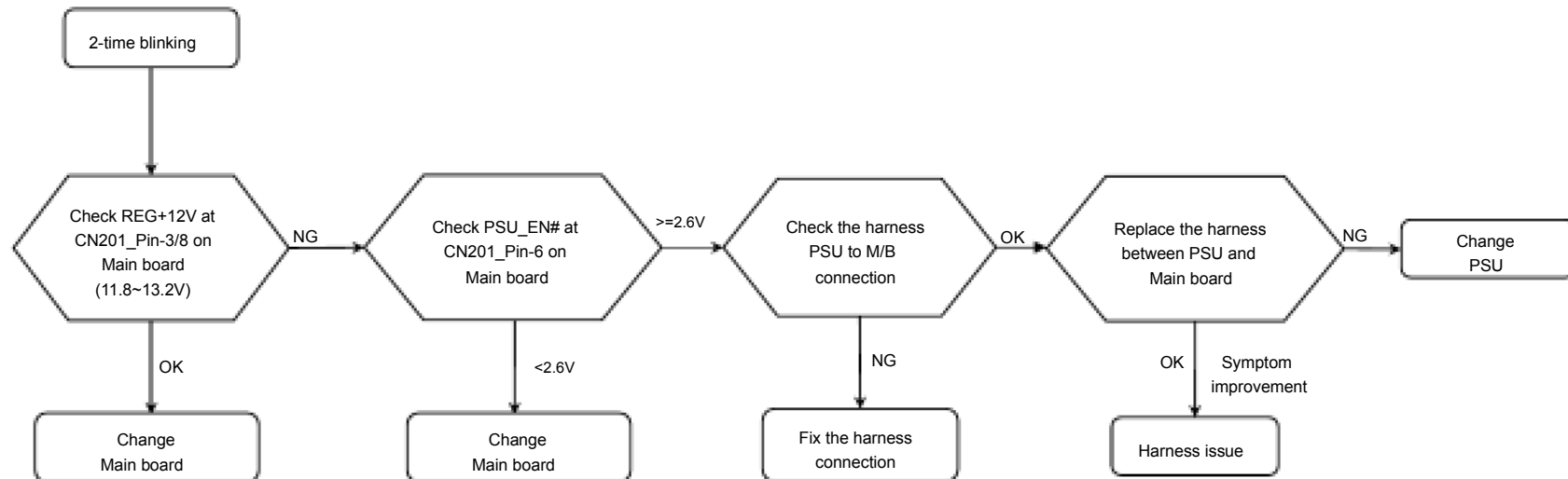
SEC 3. TROUBLE SHOOTING

3-1. NO POWER

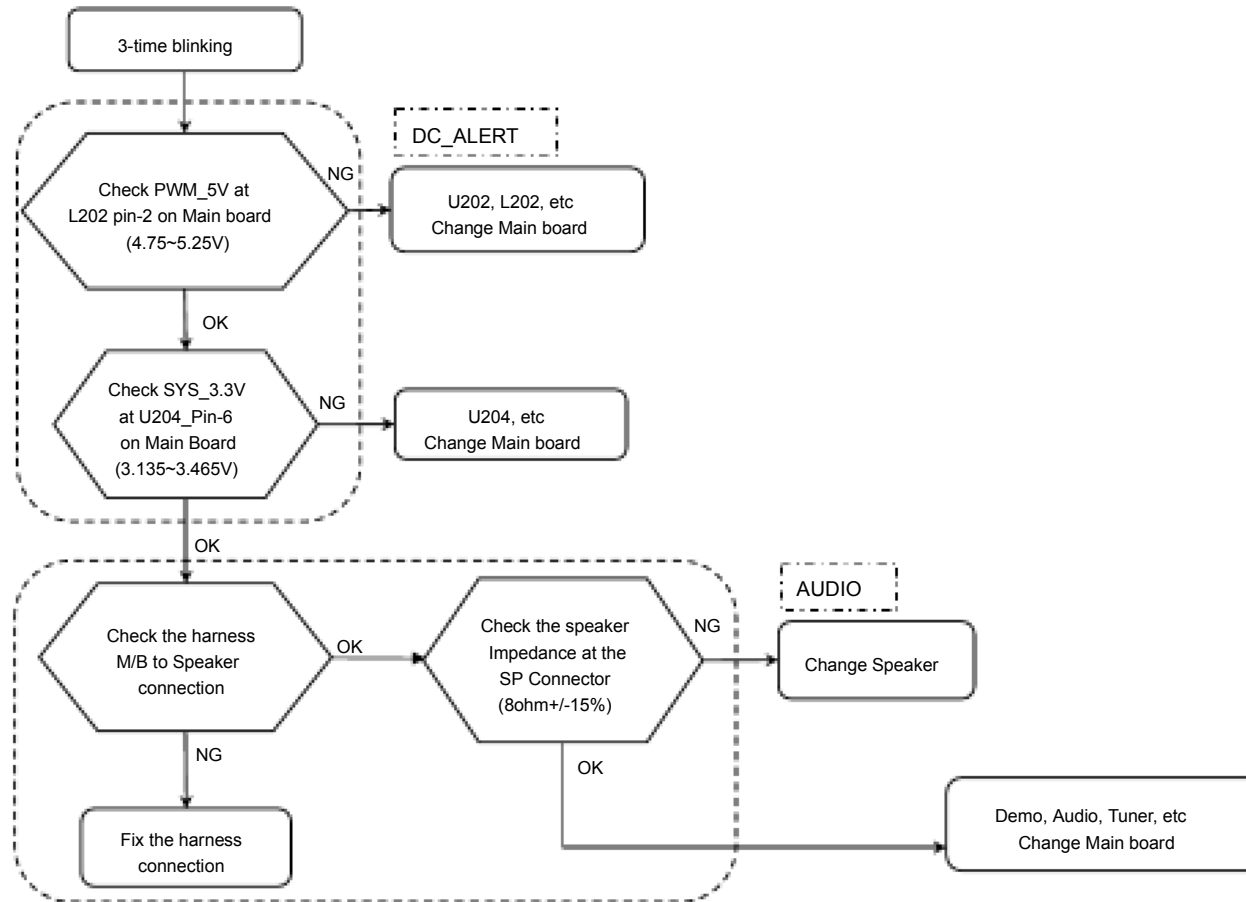


3-2. STANDBY LED BLINK

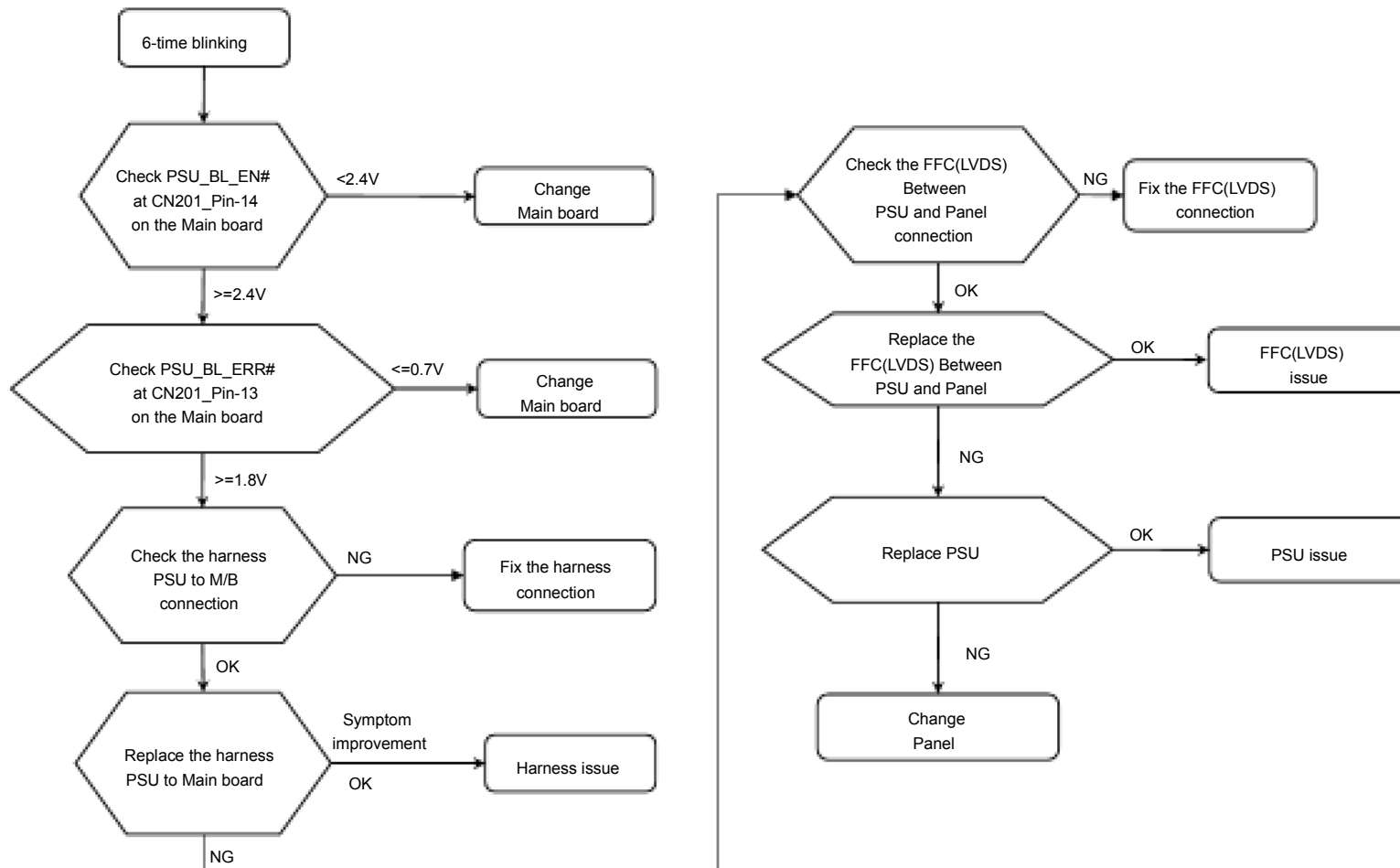
1) 2 times blinking (Main Power Error)



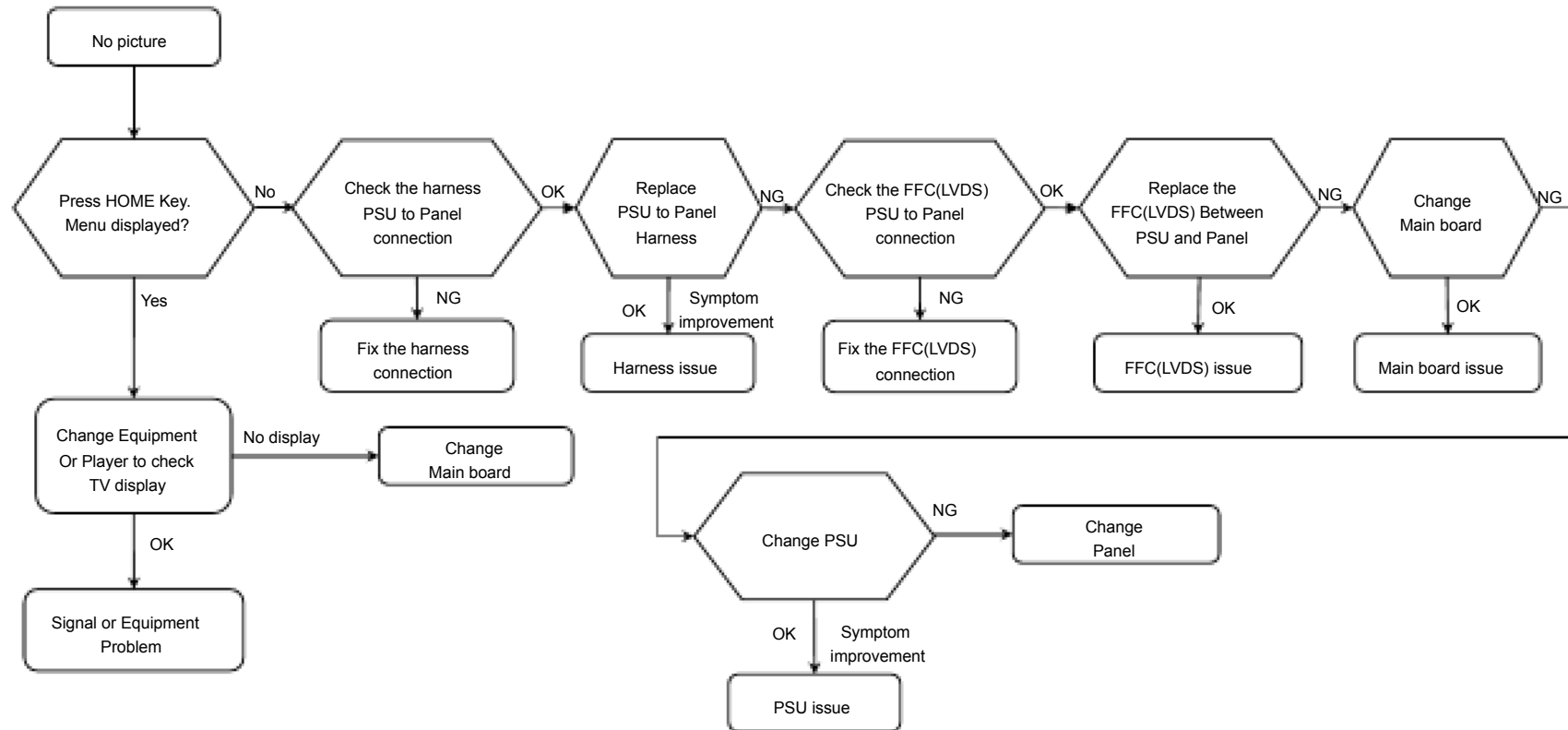
2) 3 times blinking (Main Board Error)



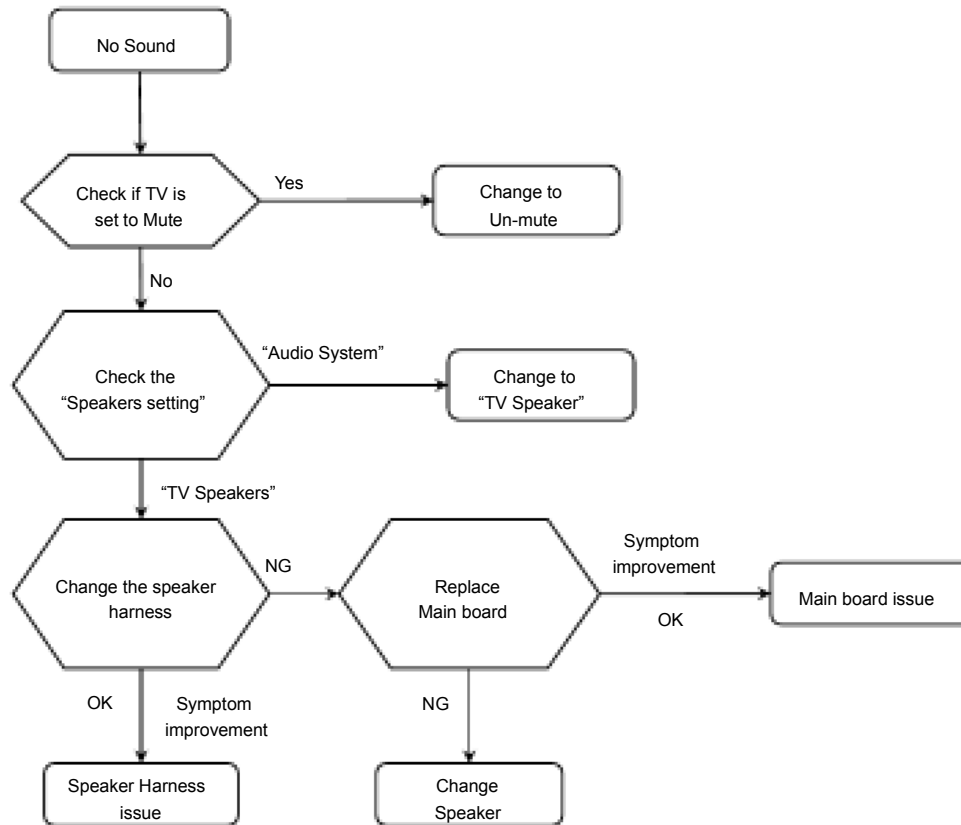
3) 6 times blinking (Backlight Error)



3-3. NO PICTURE

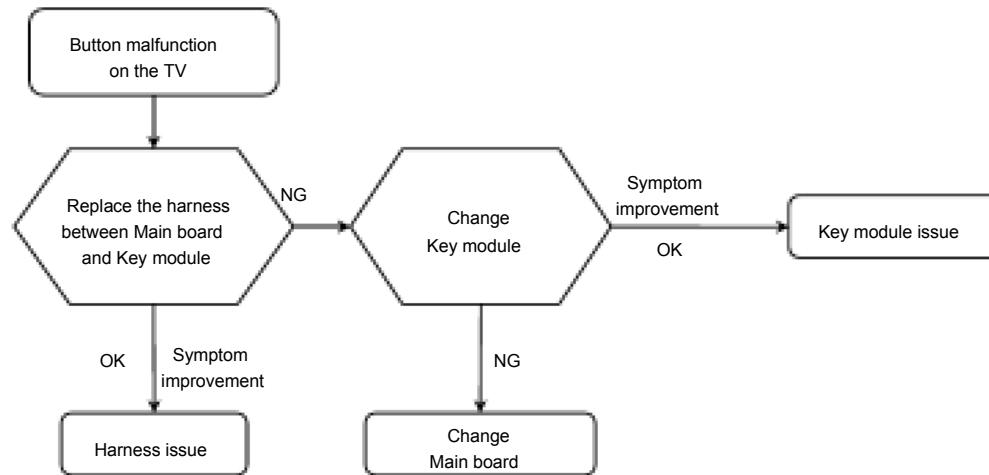


3-4. NO SOUND

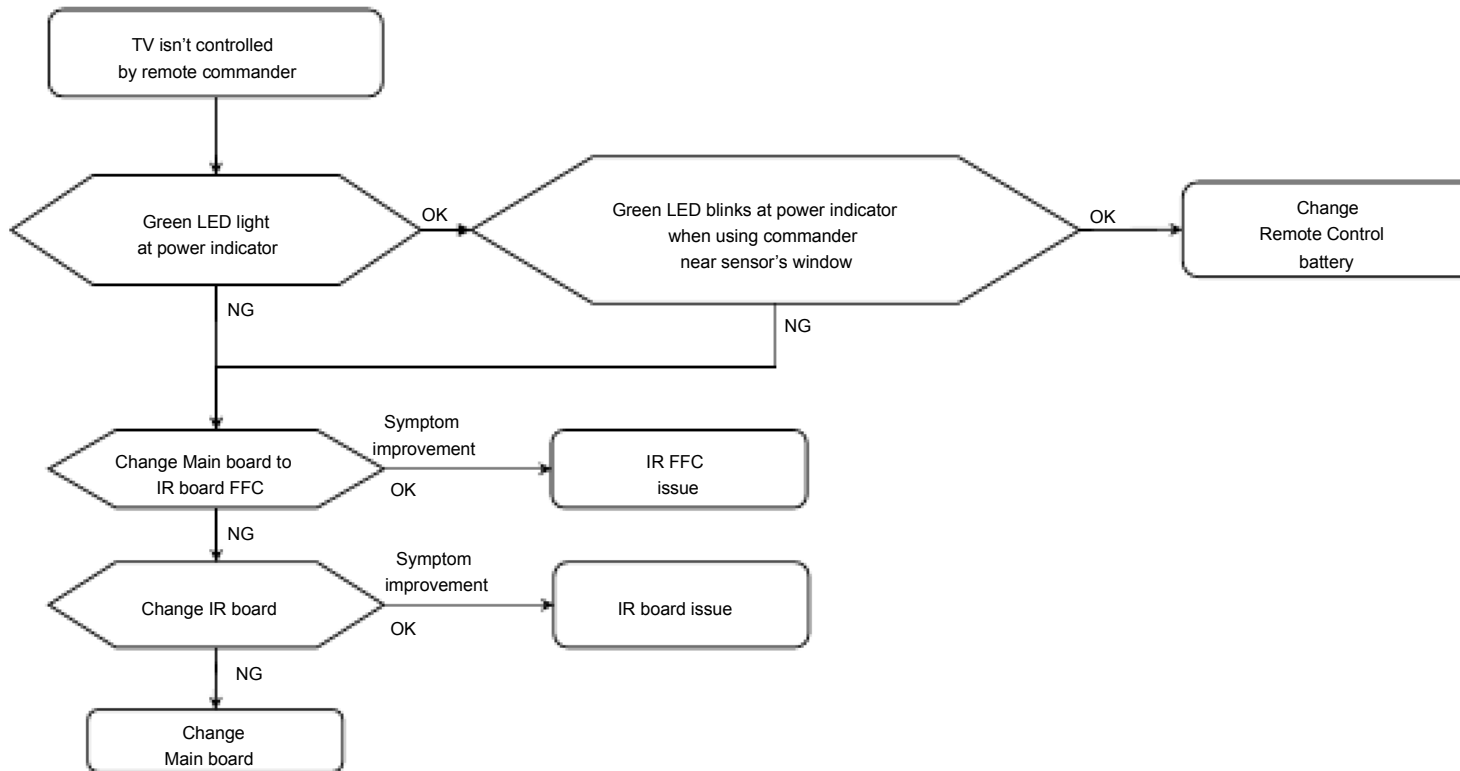


3-5. TV COMMANDER BUTTONS MALFUNCTION

1) TV button malfunction

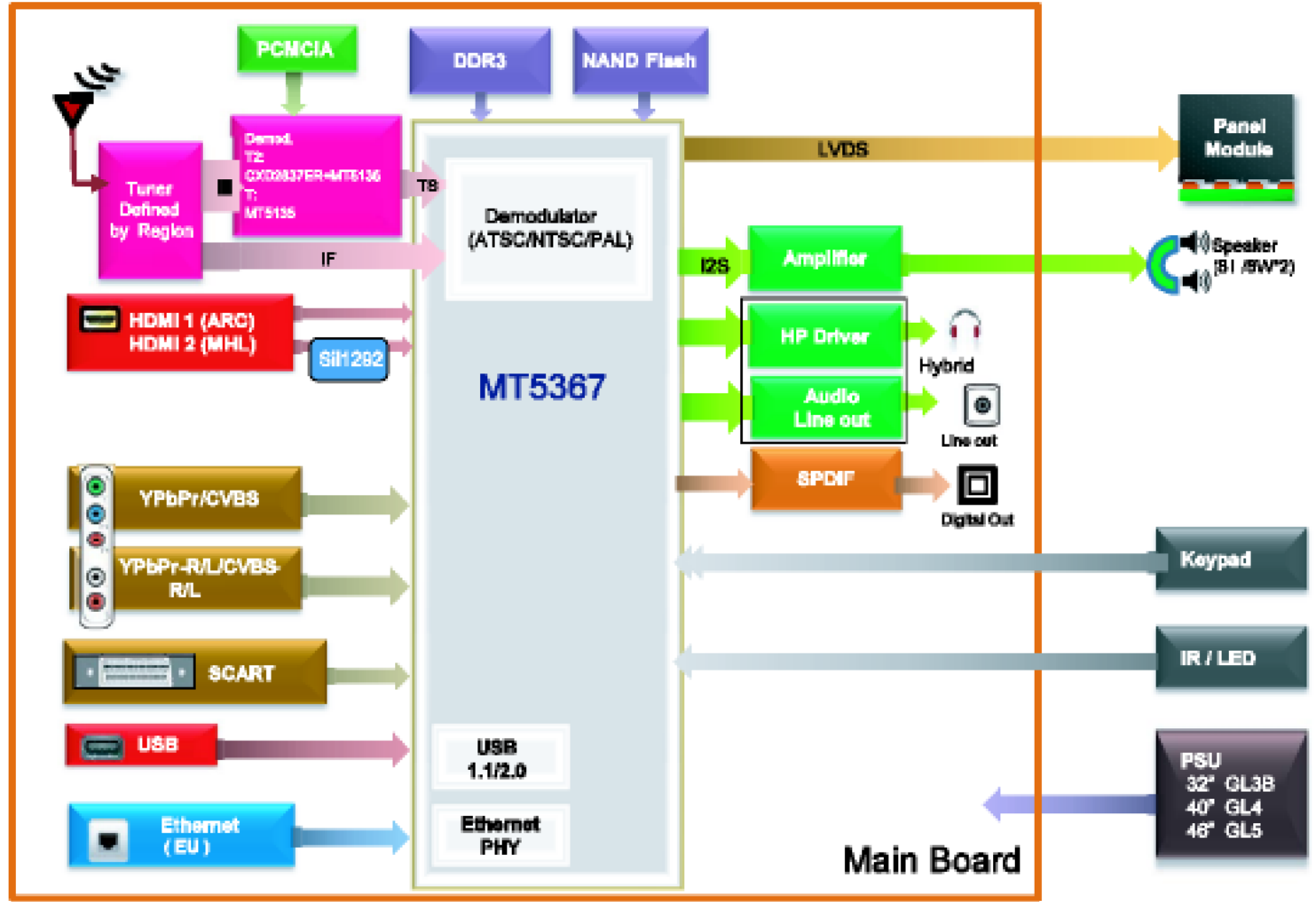


2) IR remote commander malfunction

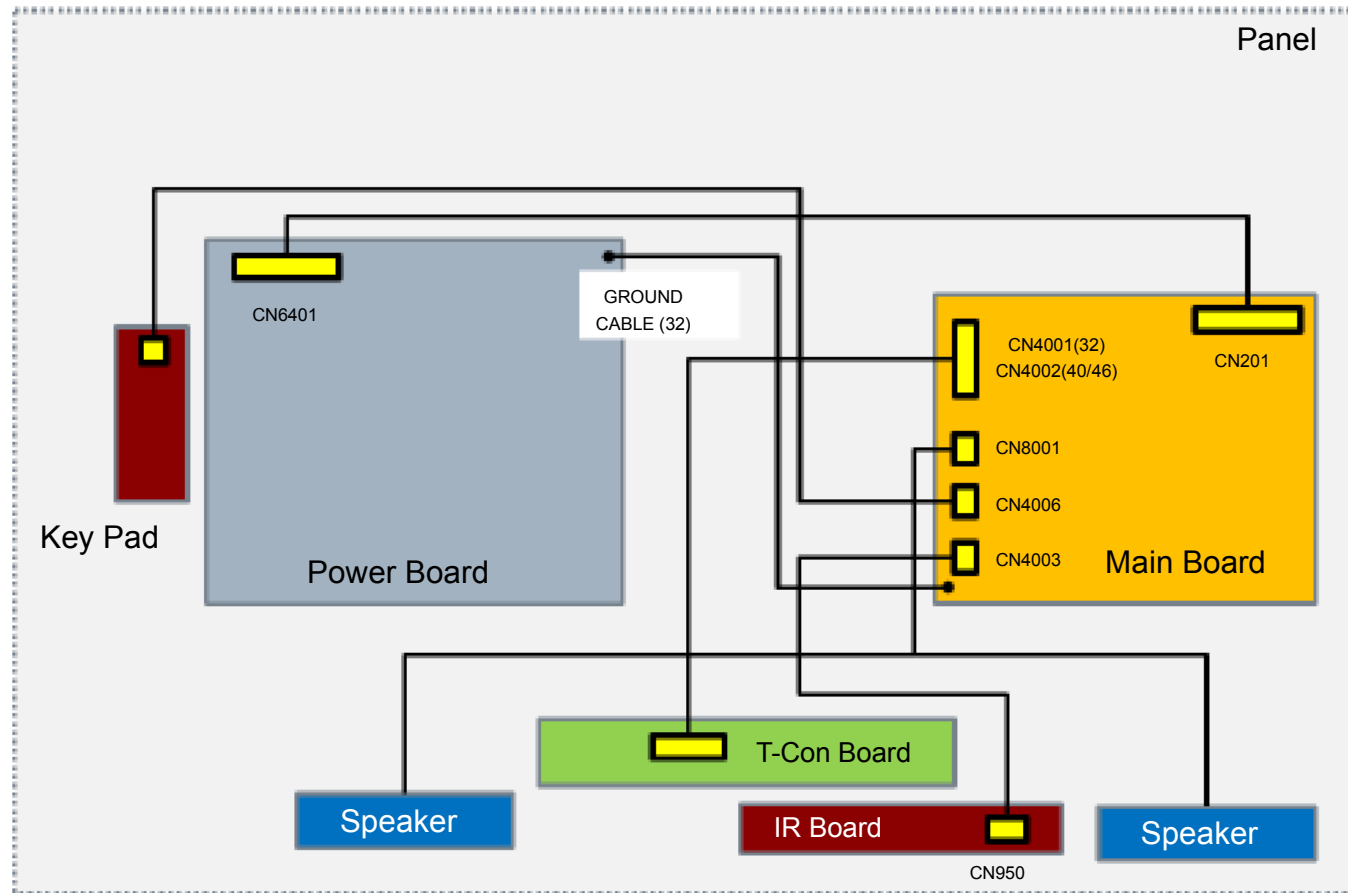


SEC 4. DIAGRAMS

4-1. BLOCK DIAGRAM

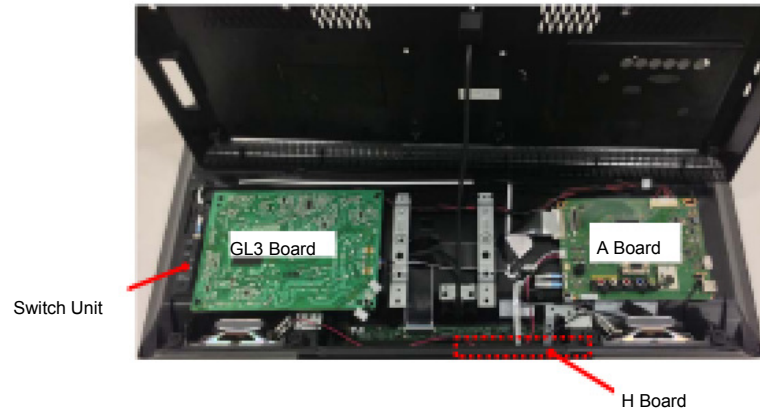


4-2. CONNECTOR DIAGRAM

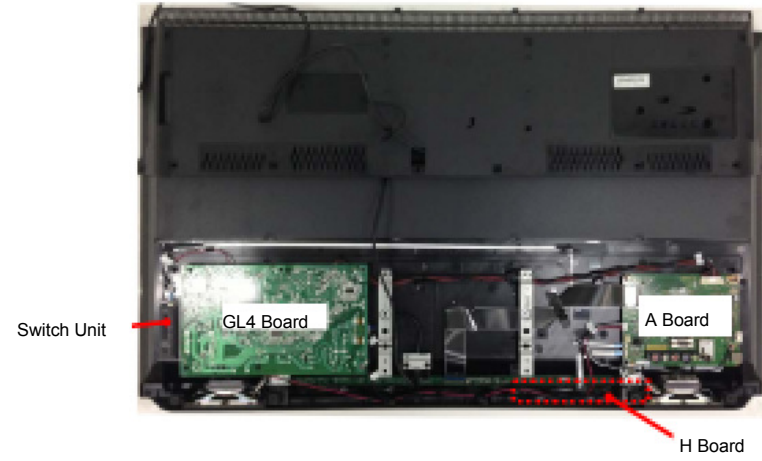


4-3. CIRCUIT BOARDS LOCATION

KDL-32R420A/421A/423A/424A



KDL-40R470A/471A/473A/474A



KDL-46R470A/473A



END

9-888-532-03

**Sony Corporation
Home Entertainment & Sound
Business Group**

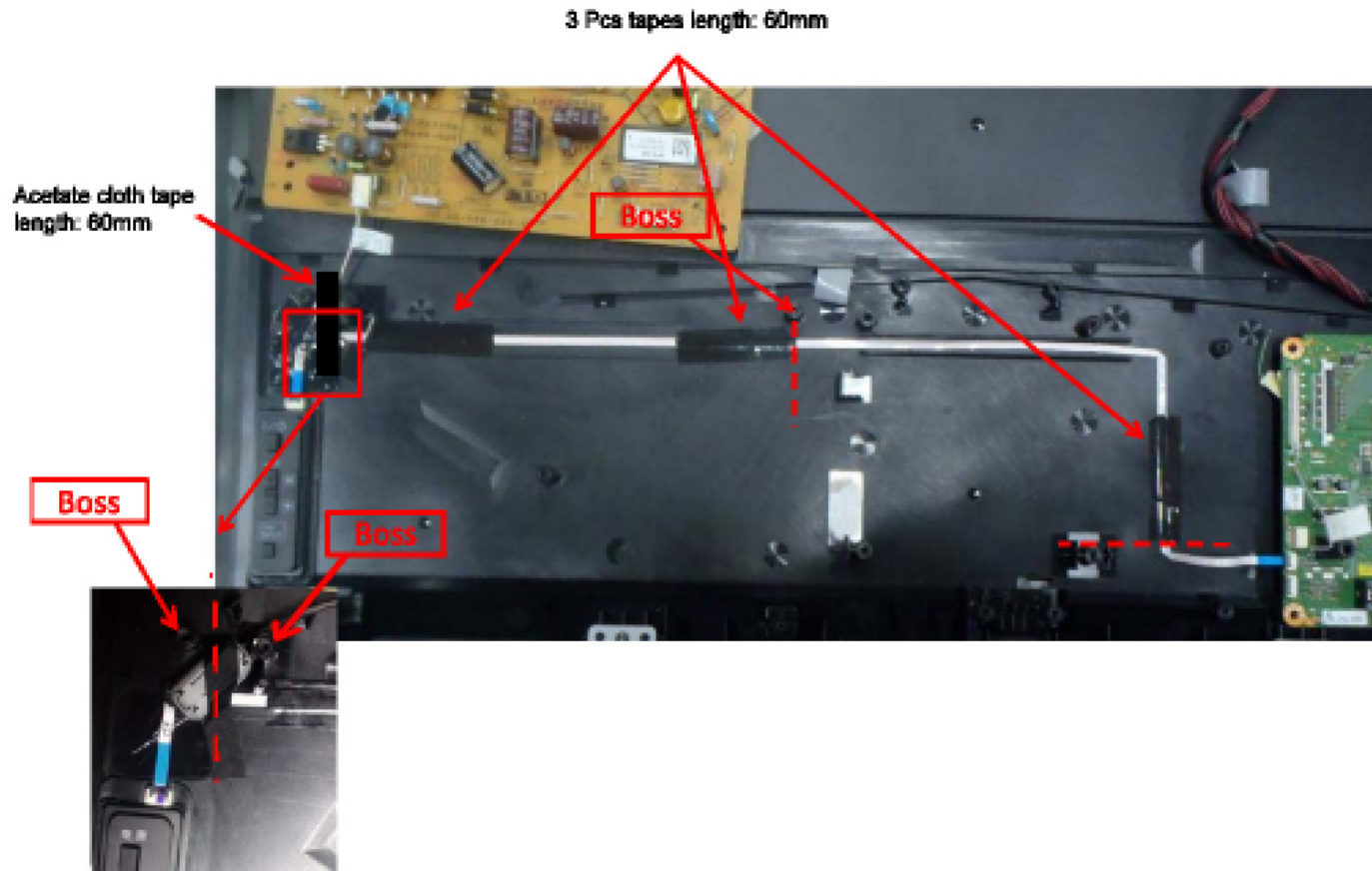
English
2013CL08-Data
Made in Japan
© 2013. 03

APPENDIX-1

WIRE DRESSING

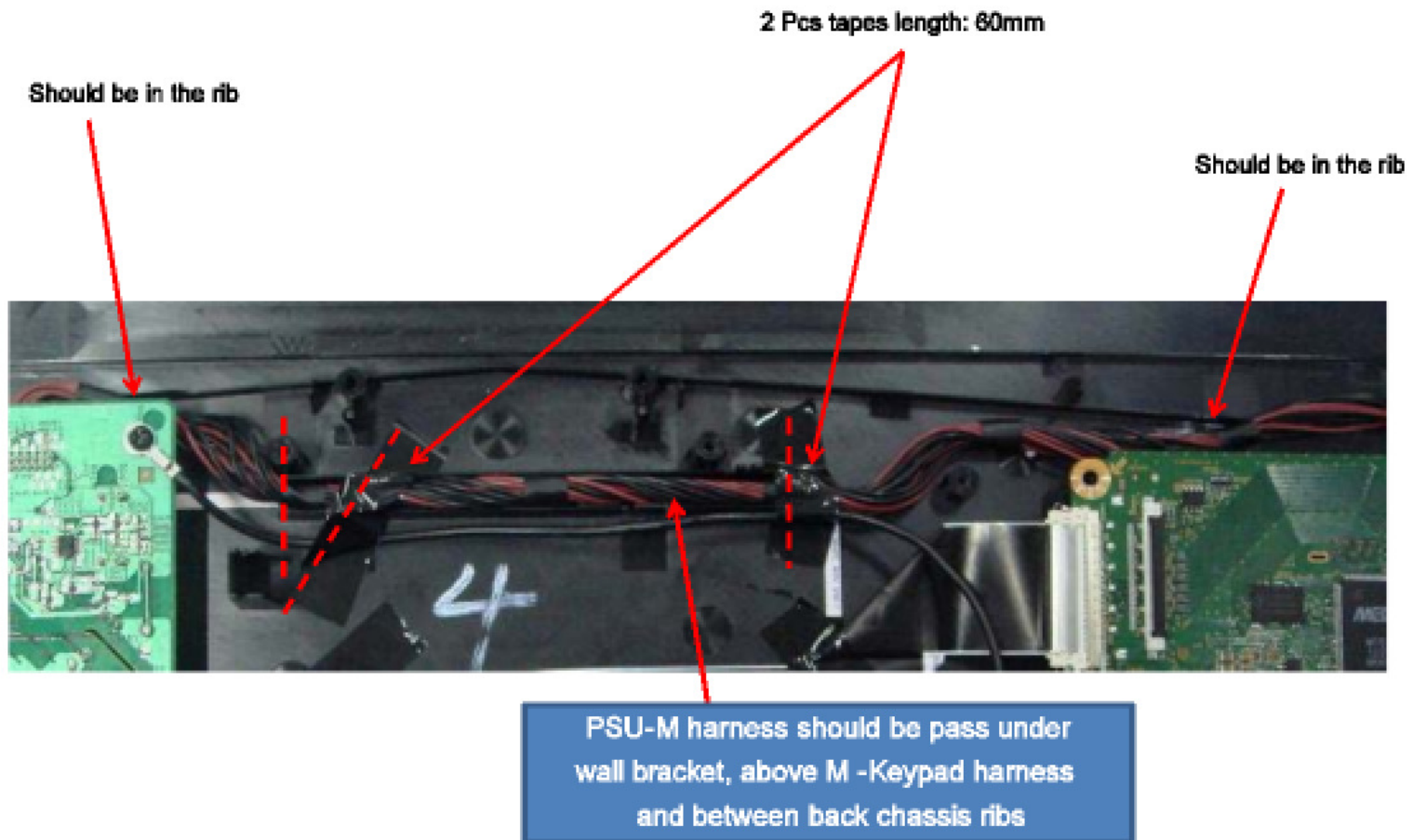
1. KDL-32R420A/421A/423A/424A

Keypad wire dressing



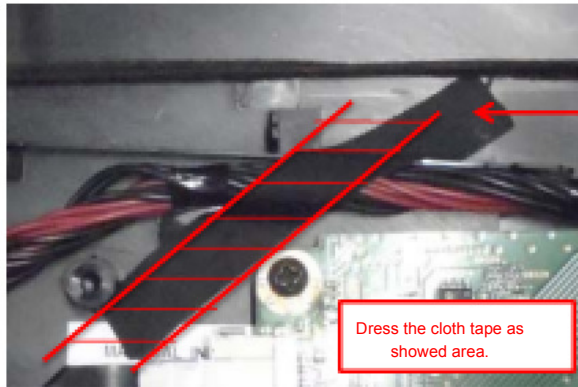
1. KDL-32R420A/421A/423A/424A

PSU->MB dressing-1

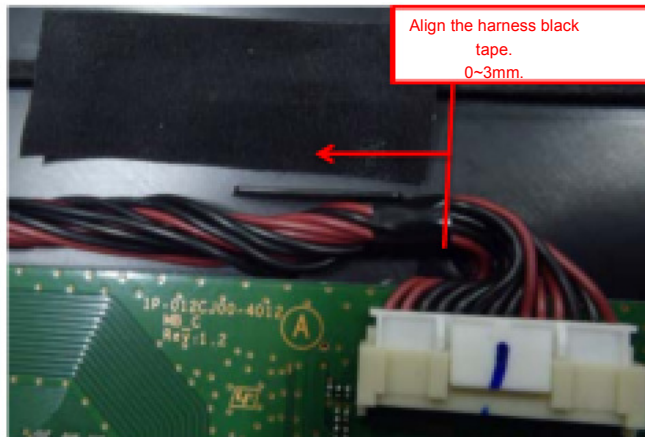


1. KDL-32R420A/421A/423A/424A

PSU->MB dressing-2



Part Name: ACETATE CLOTH TAPE W10
Part Number: 4-468-753-01

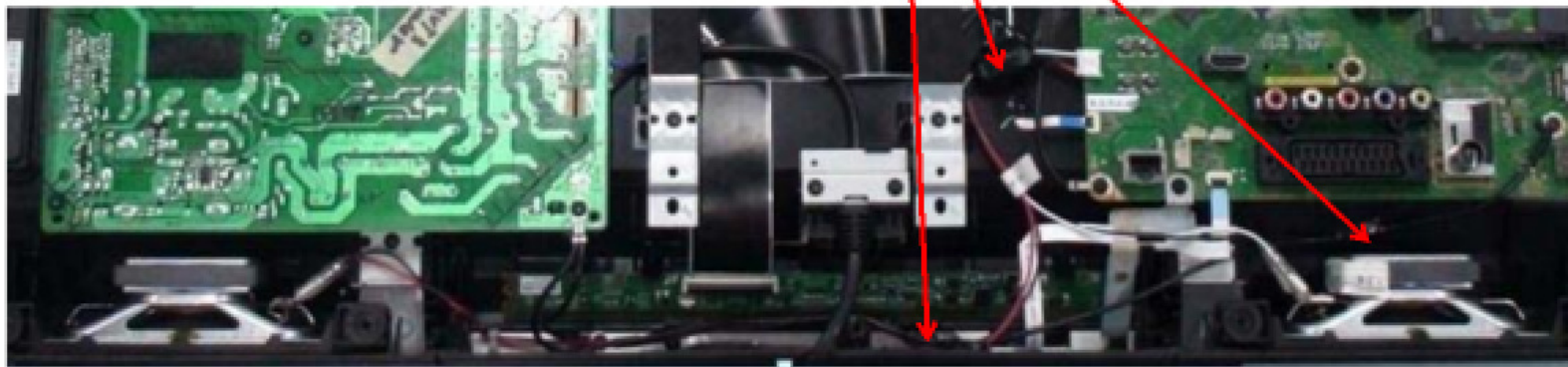


Part Name: ACETATE CLOTH TAPE W20
Part Number: 4-468-753-11

1. KDL-32R420A/421A/423A/424A

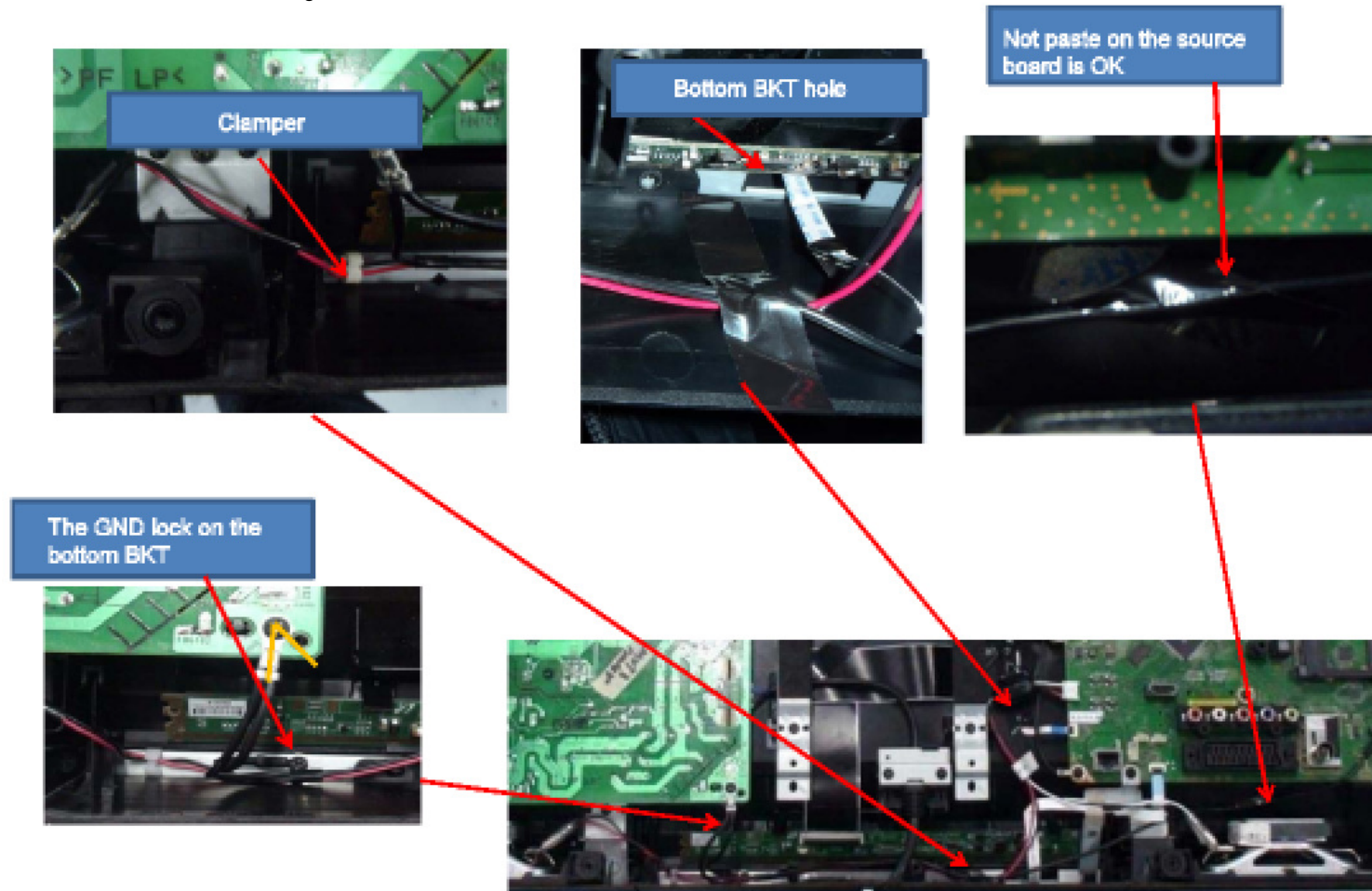
Speaker and GND combine dressing-1

3 Pcs tapes length: 60mm



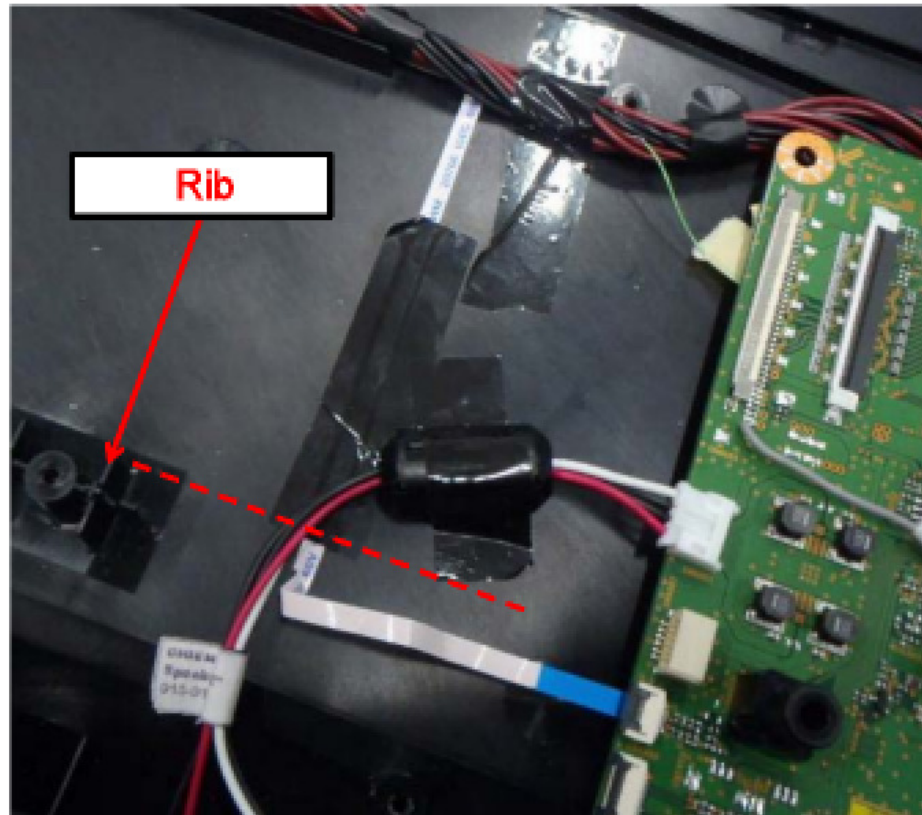
1. KDL-32R420A/421A/423A/424A

Speaker and GND combine dressing-2



1. KDL-32R420A/421A/423A/424A

Speaker and GND combine dressing-3



1. KDL-32R420A/421A/423A/424A

Speaker and GND combine dressing-4



Note:
Speaker & Ground wire combined harness need keep
away with S-board, speaker harness keep close to
Speaker Baffle inside of ground harness.



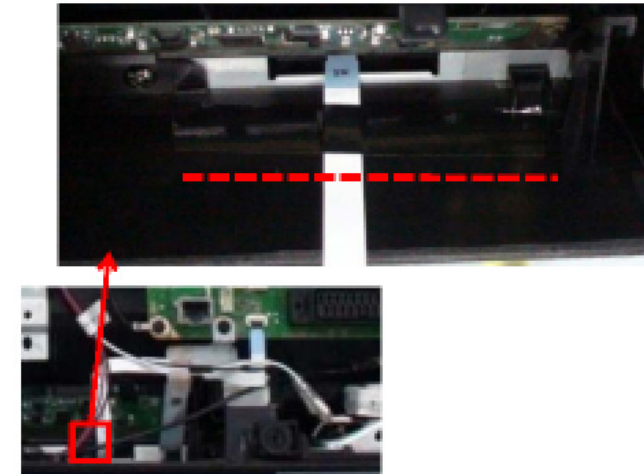
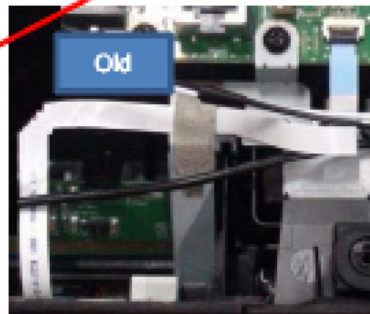
1. KDL-32R420A/421A/423A/424A

IR dressing

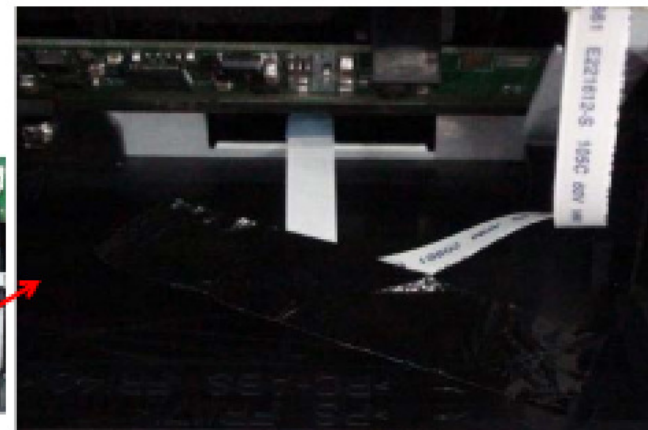
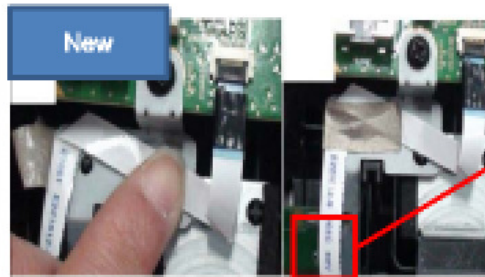
1 Pcs conductive tape length: 10x35mm



The ESD Hole and tape hole must be align



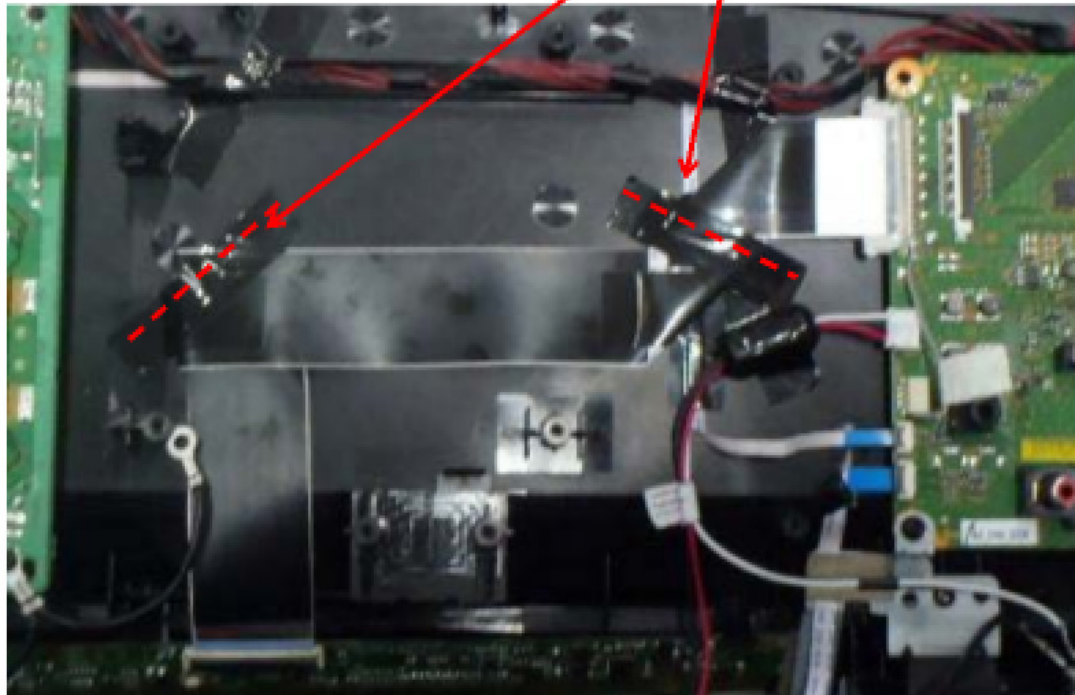
The ESD Hole and tape hole must be align



1. KDL-32R420A/421A/423A/424A

LVDS dressing

2 Pcs tapes length: 60mm

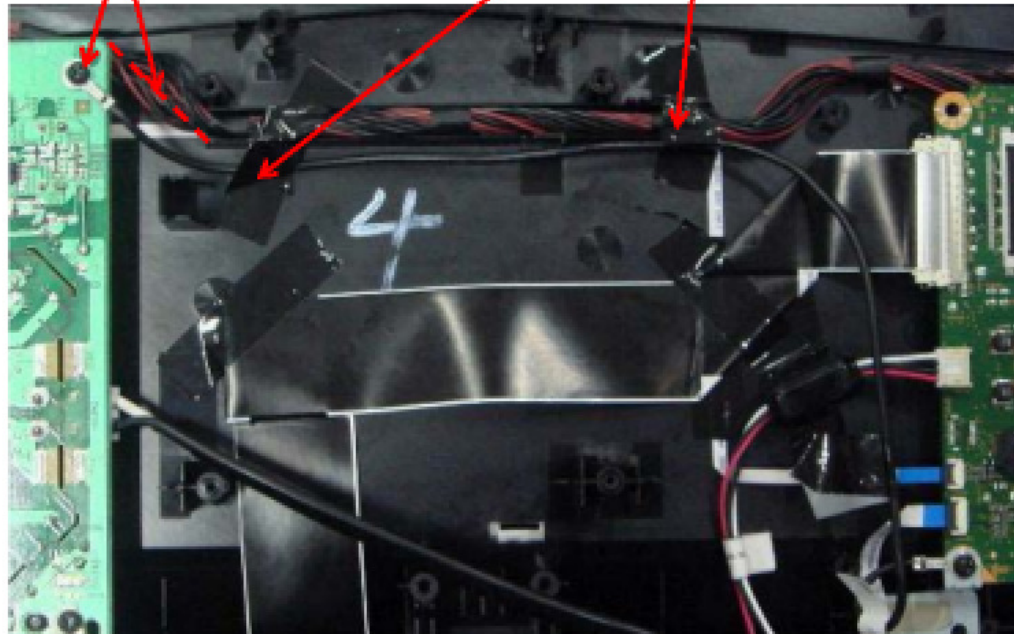


1. KDL-32R420A/421A/423A/424A

GND dressing

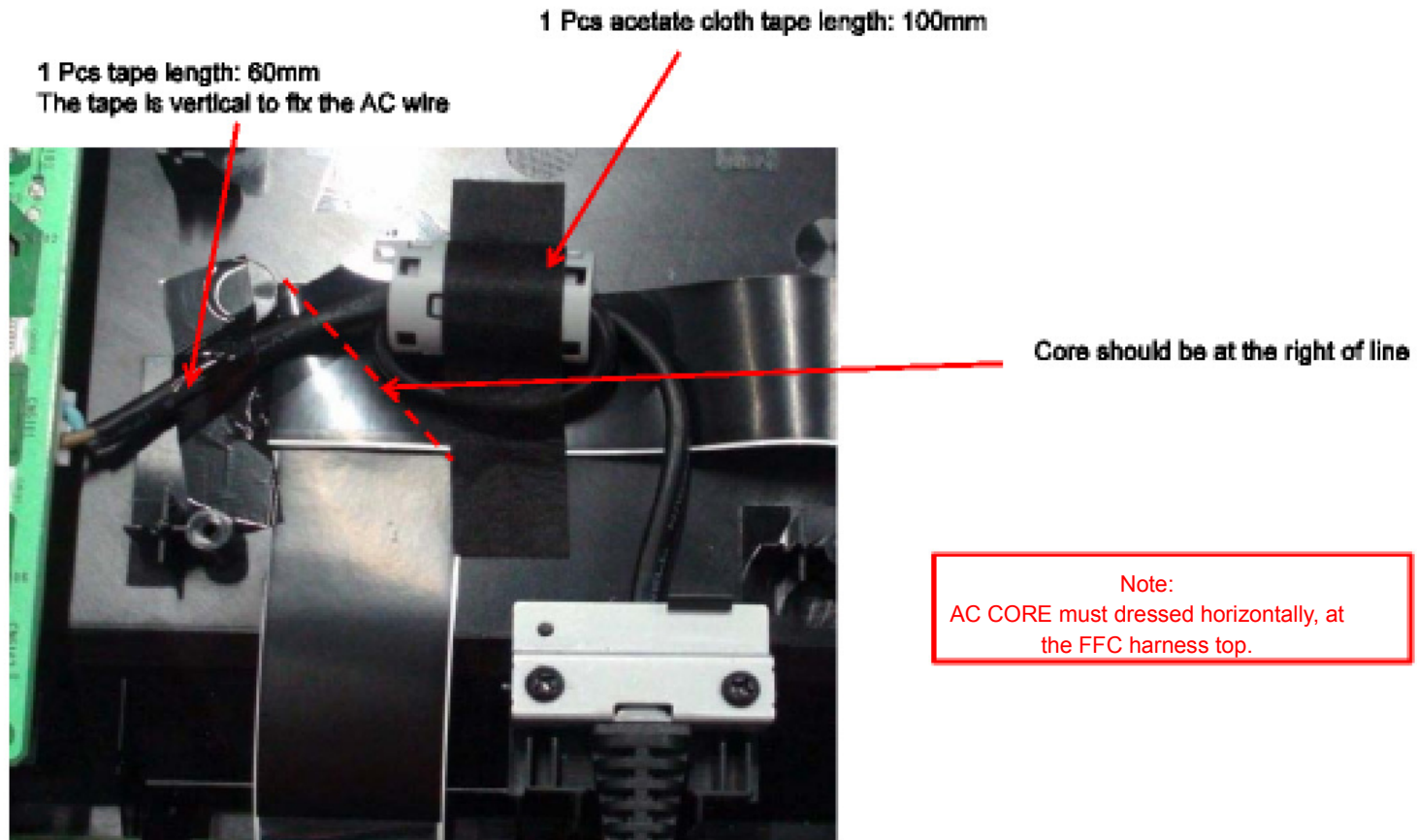
4 Pcs tapes length: 60mm
Must combine the GND with MB -> PSU together

The direction should be parallel with the line



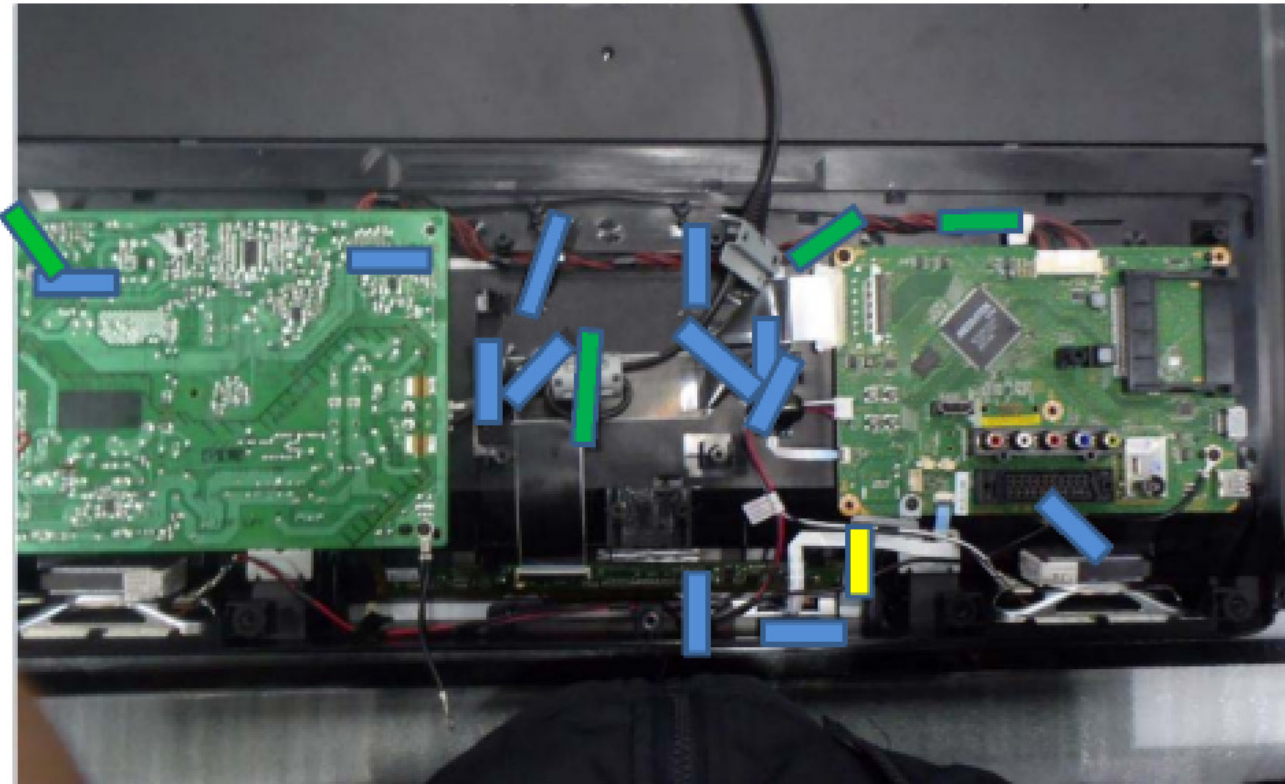
1. KDL-32R420A/421A/423A/424A

AC dressing



1. KDL-32R420A/421A/423A/424A

Overview

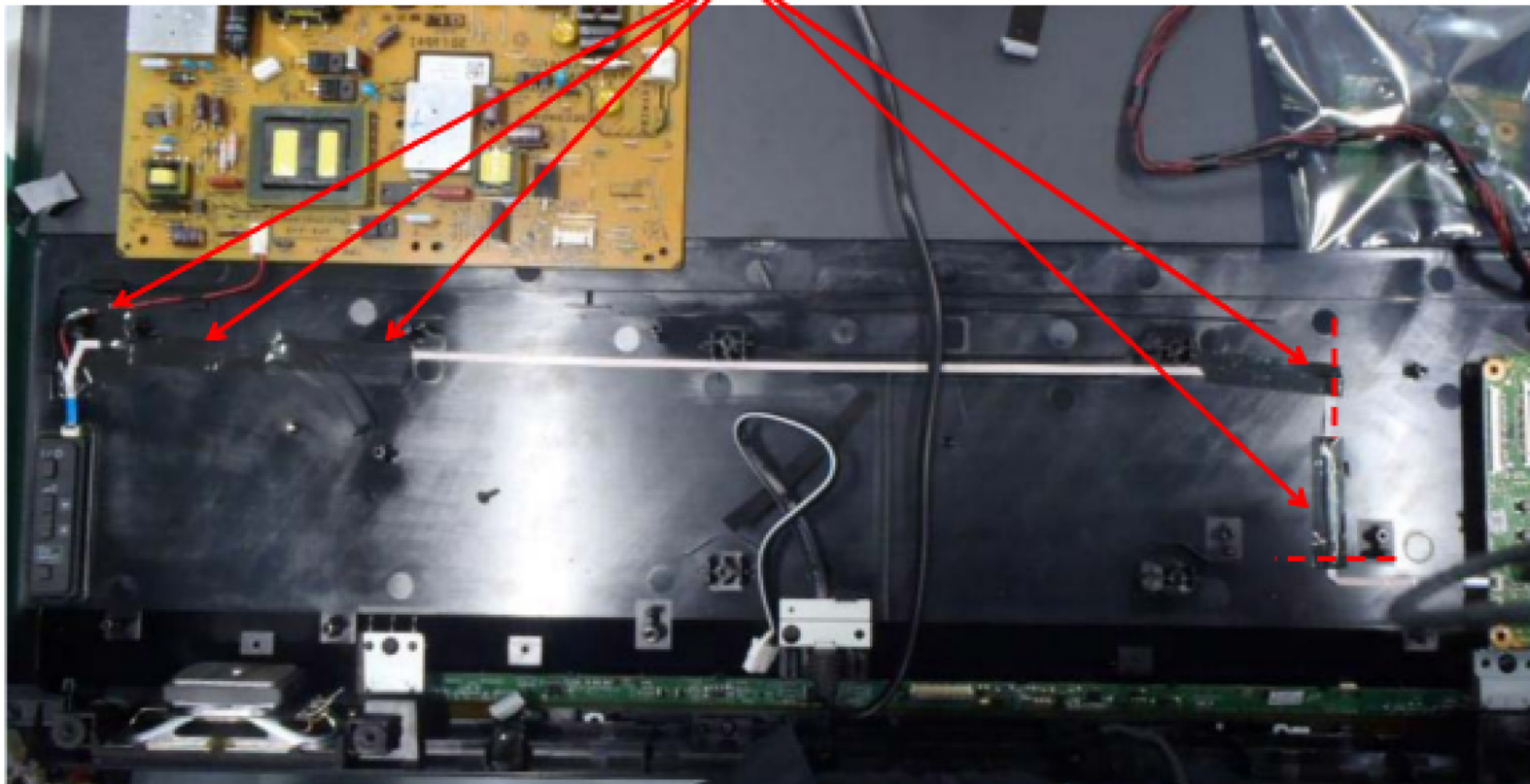


12 Pcs tapes and 4 Pcs acetate cloth tape and 1 Pcs conductive tape
Hotel (14 Pcs tapes)

2. KDL-40R470A/471A/473A/474A

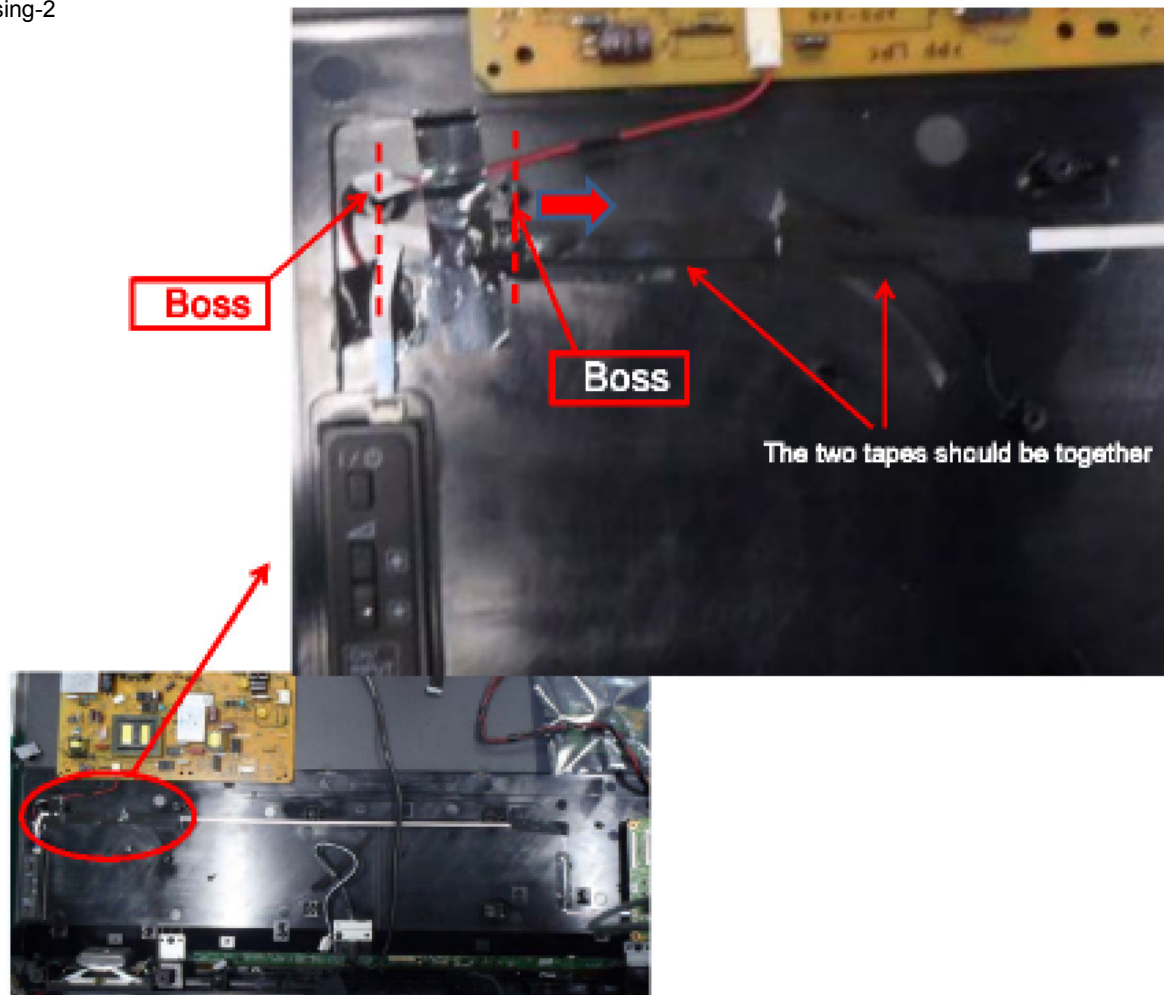
Keypad wire dressing-1

5 Pcs tapes length: 60mm



2. KDL-40R470A/471A/473A/474A

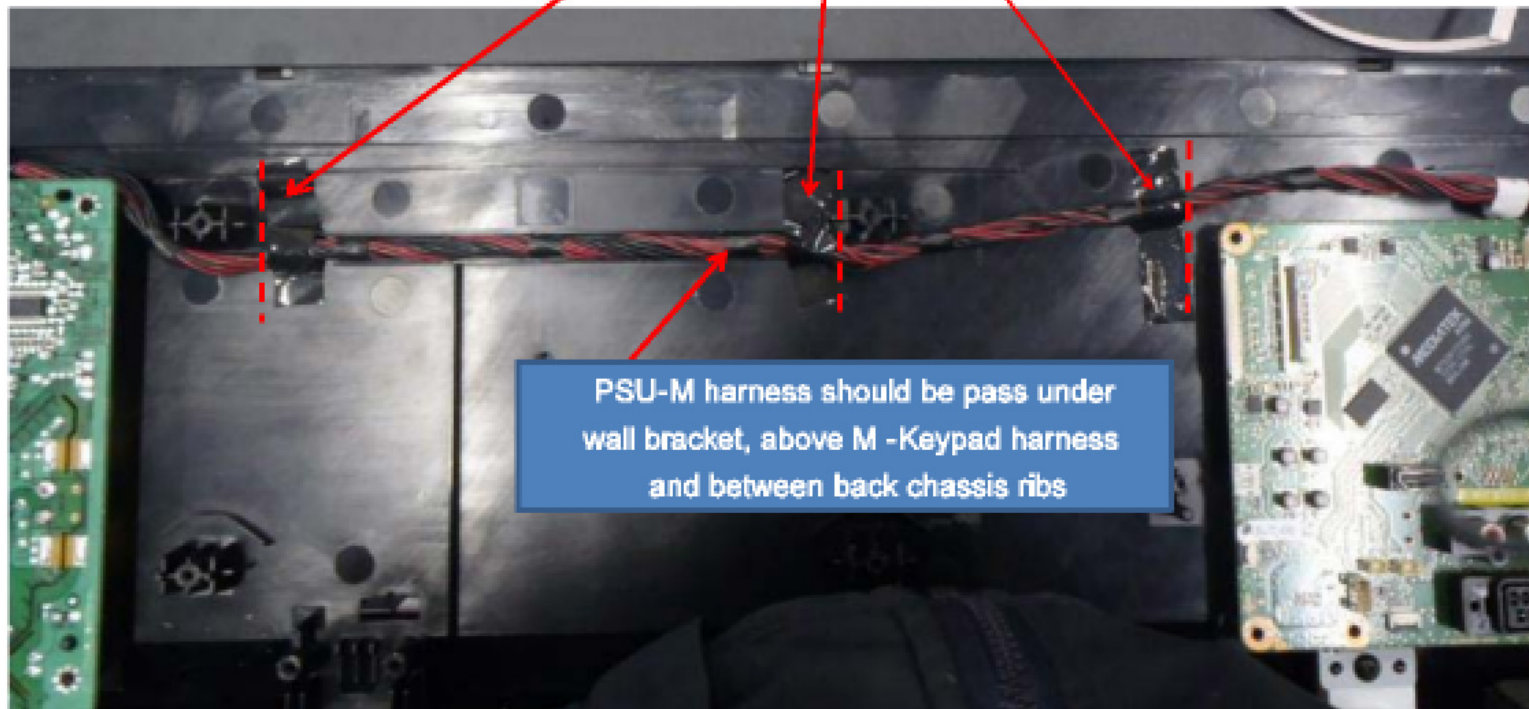
Keypad wire dressing-2



2. KDL-40R470A/471A/473A/474A

PSU->MB dressing

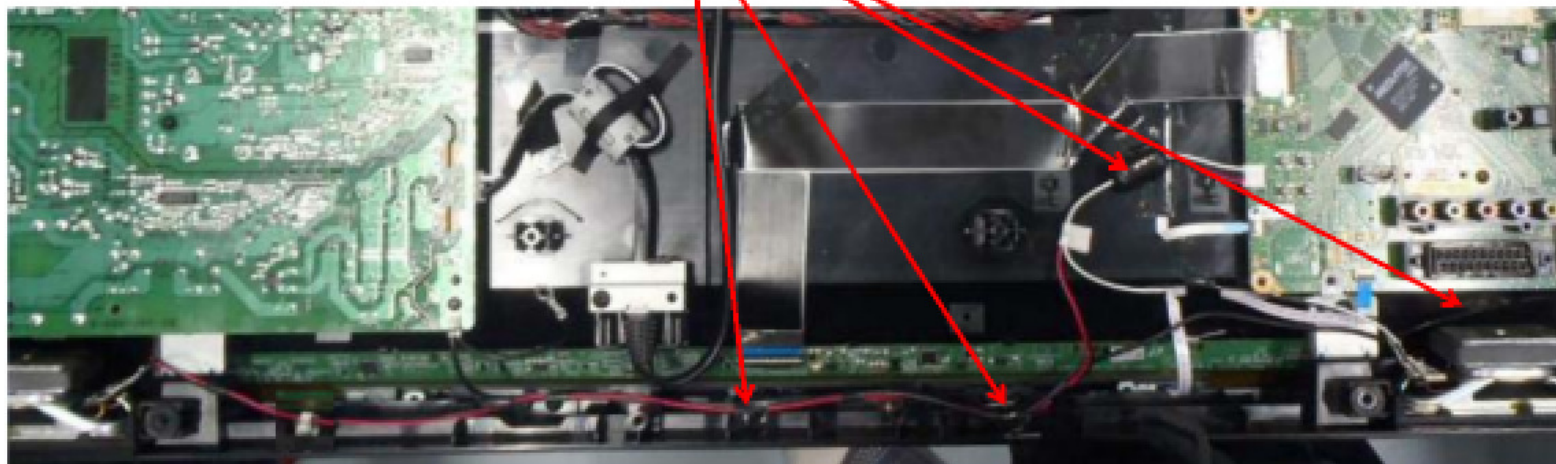
3 Pcs tapes length: 60mm



2. KDL-40R470A/471A/473A/474A

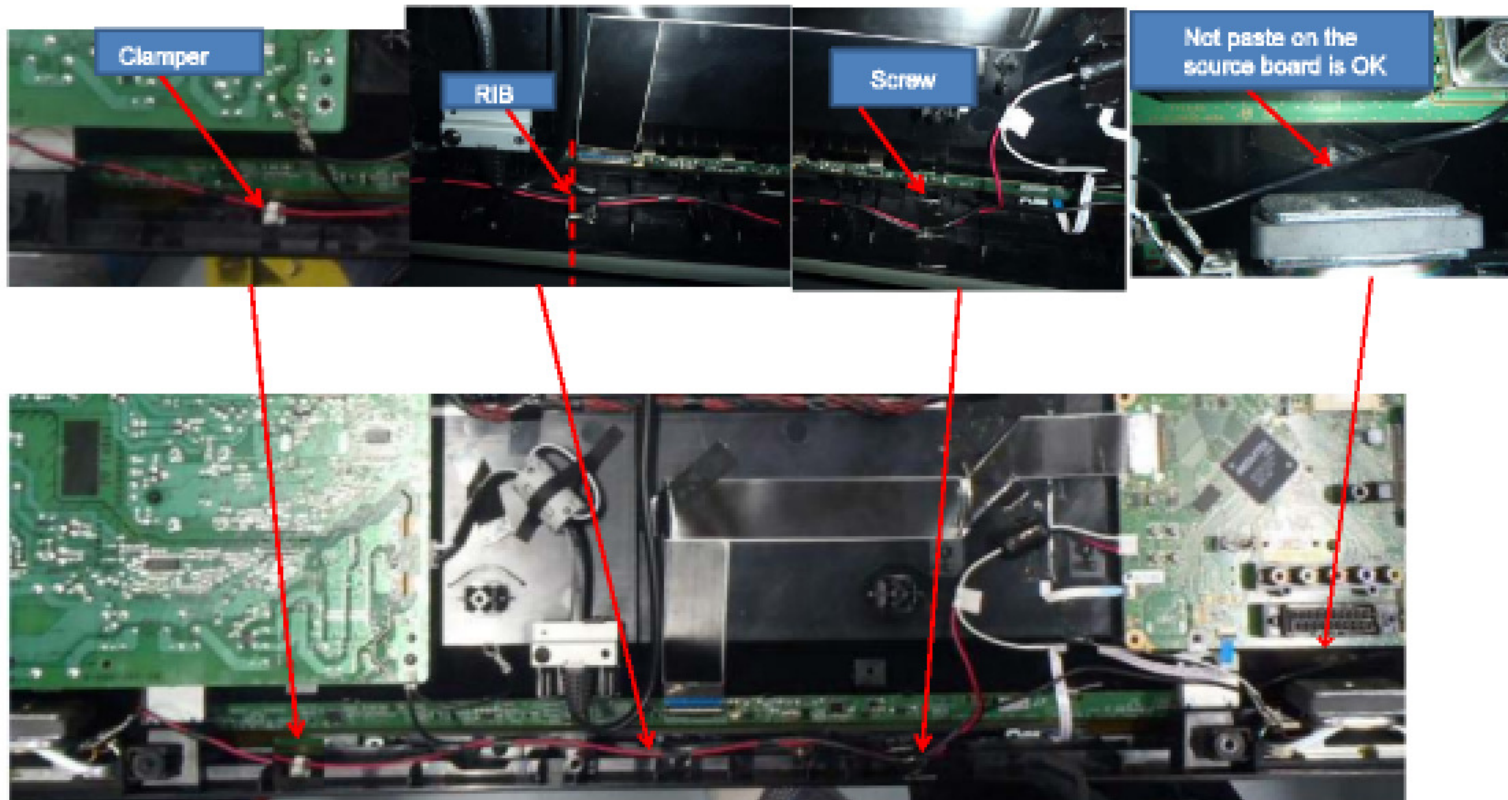
Speaker and GND combine dressing-1

4 Pcs tapes length: 60mm



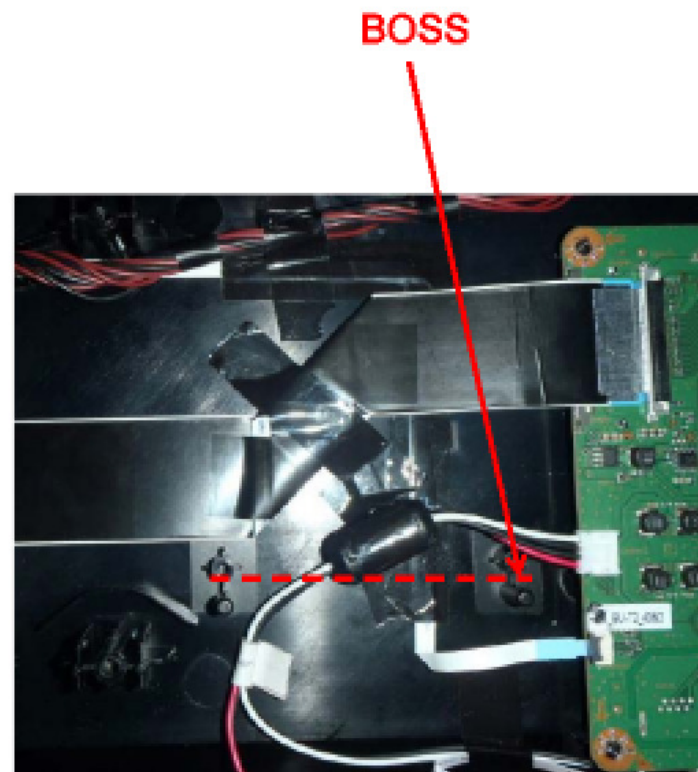
2. KDL-40R470A/471A/473A/474A

Speaker and GND combine dressing-2



2. KDL-40R470A/471A/473A/474A

Speaker and GND combine dressing-3

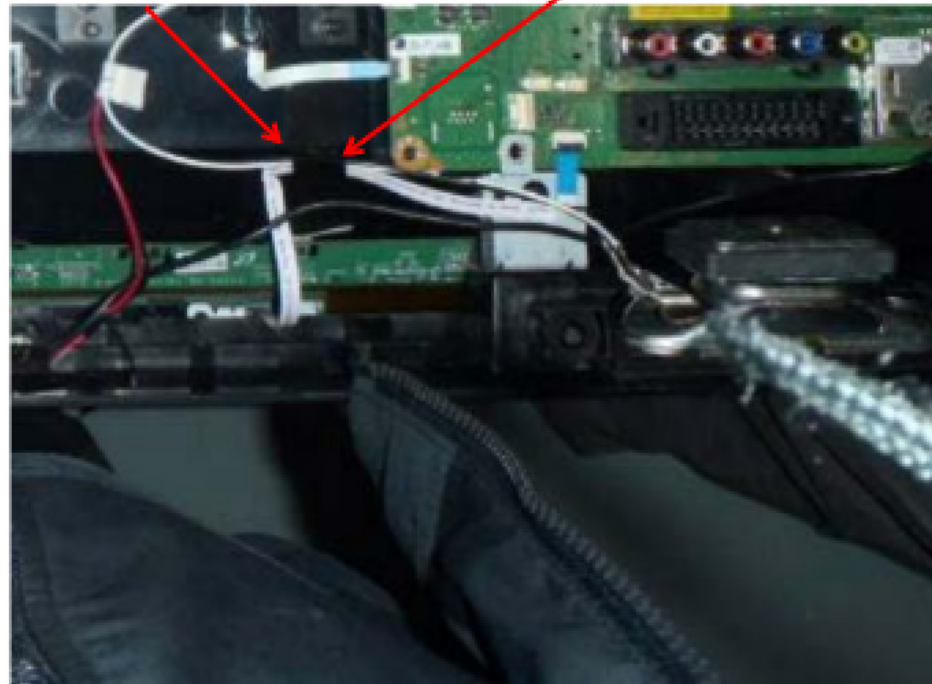


2. KDL-40R470A/471A/473A/474A

IR dressing

1 Pcs tape length: 60mm

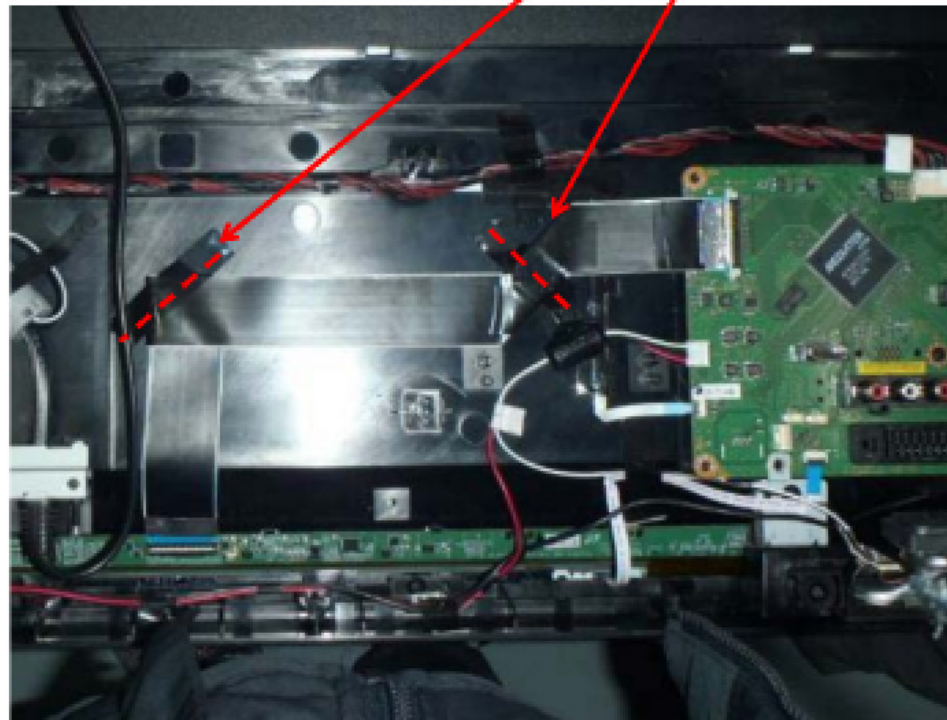
The is vertical, paste speaker wire(L)
and IR together is OK



2. KDL-40R470A/471A/473A/474A

LVDS dressing

2 Pcs tapes length: 60mm



2. KDL-40R470A/471A/473A/474A

AC dressing

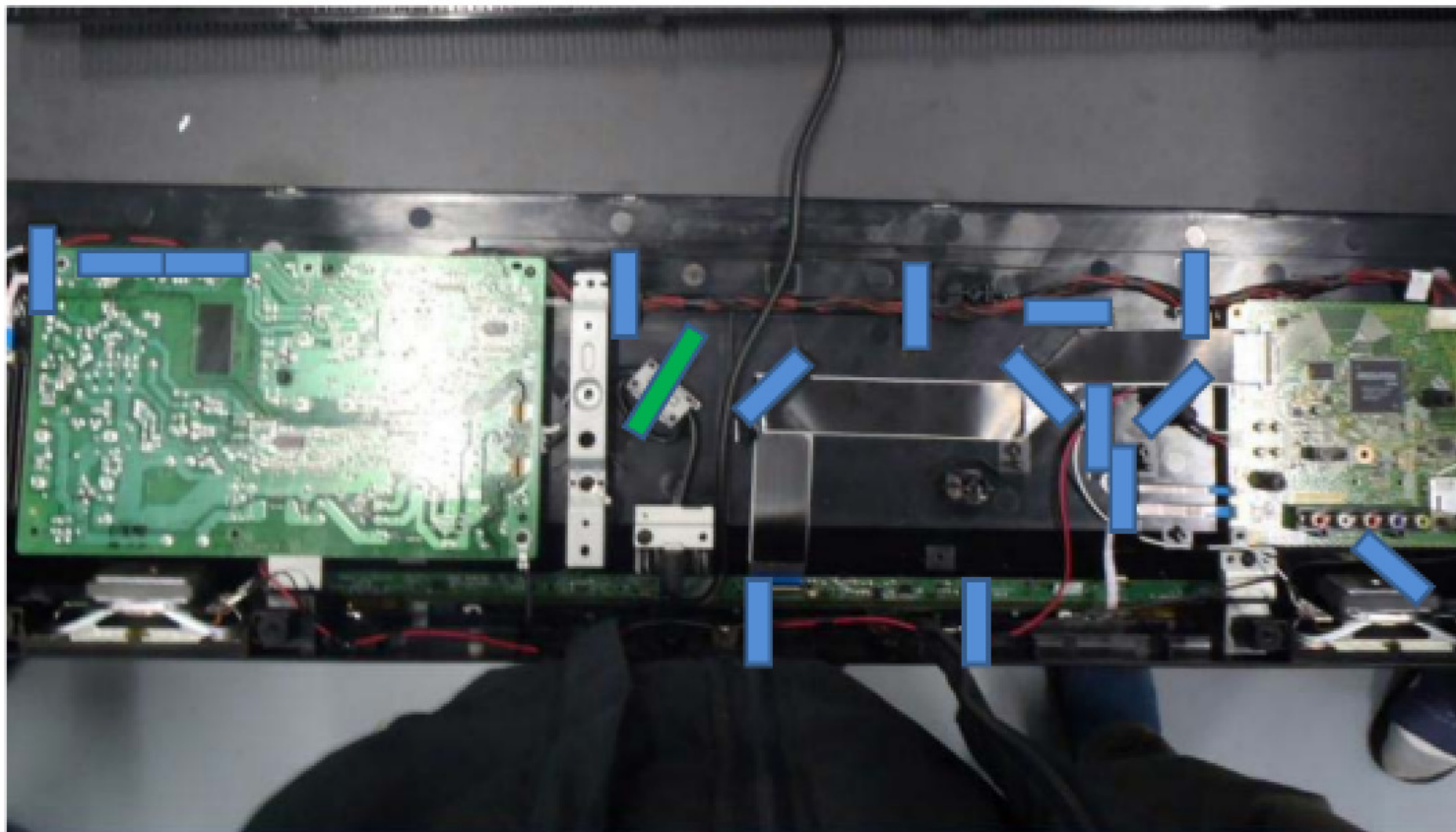
Under Rib

Part Name: ACETATE CLOTH TAPE W20
Part Number: 4-468-753-11



2. KDL-40R470A/471A/473A/474A

Overview

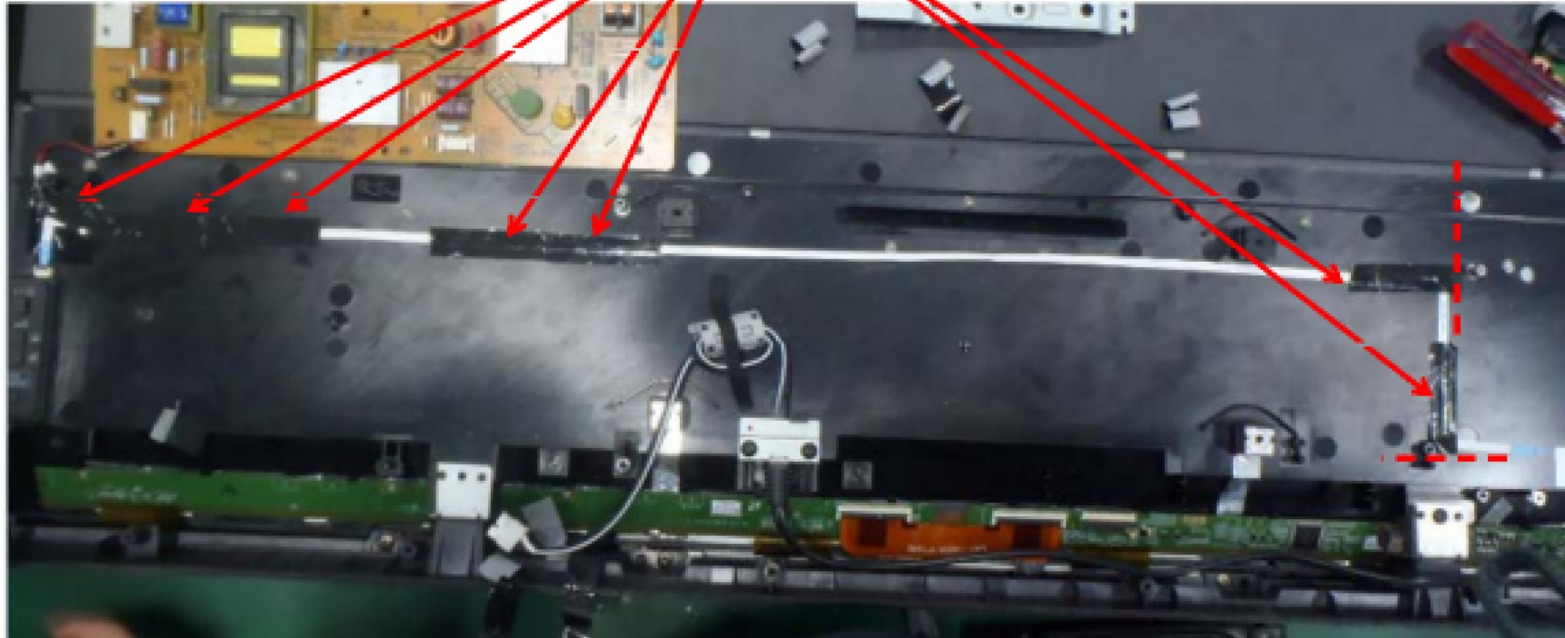


15 Pcs tapes and 1 Pcs acetate cloth tape

3. KDL-46R470A/473A

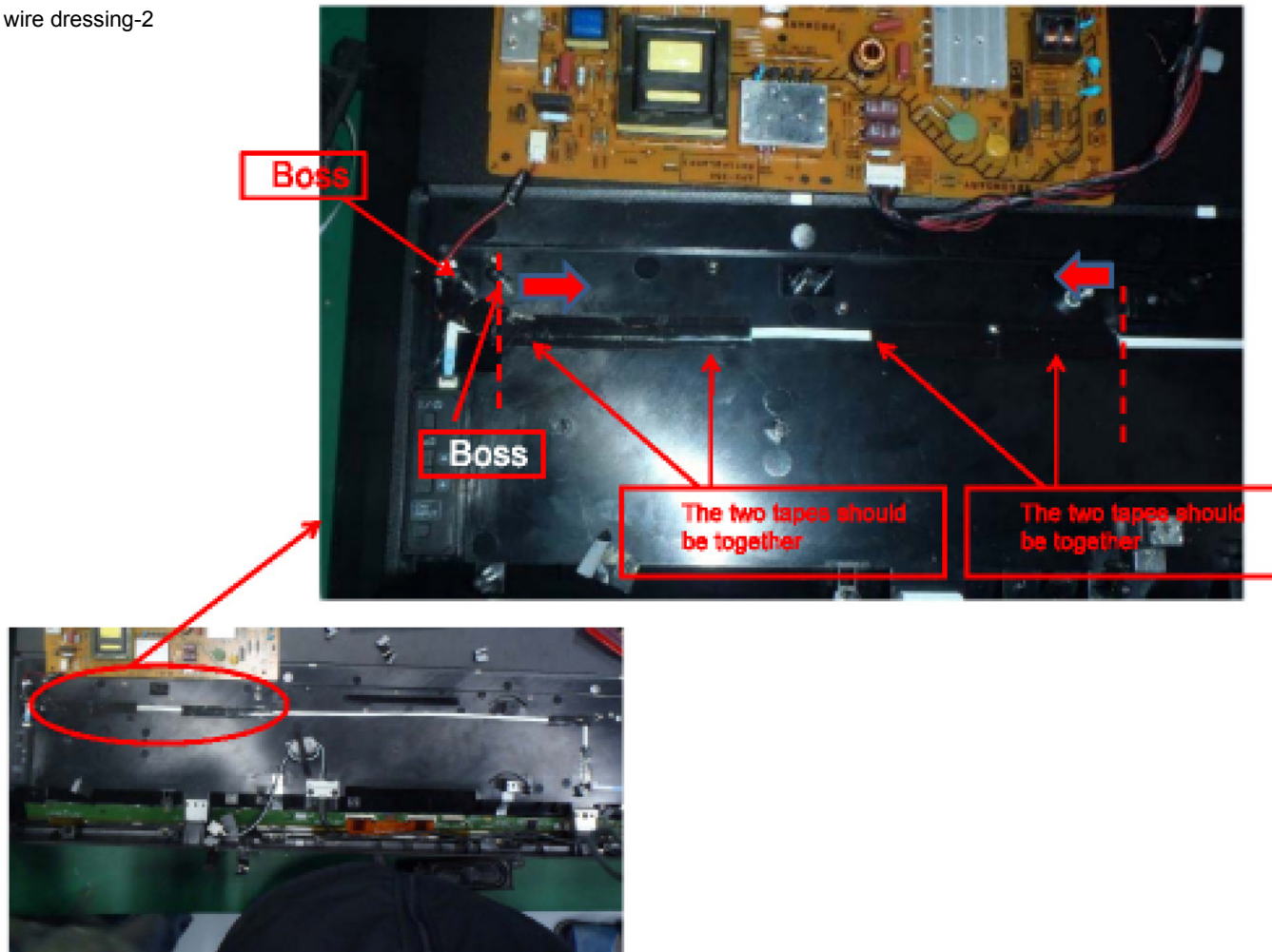
Keypad wire dressing-1

7 Pcs tapes length: 60mm



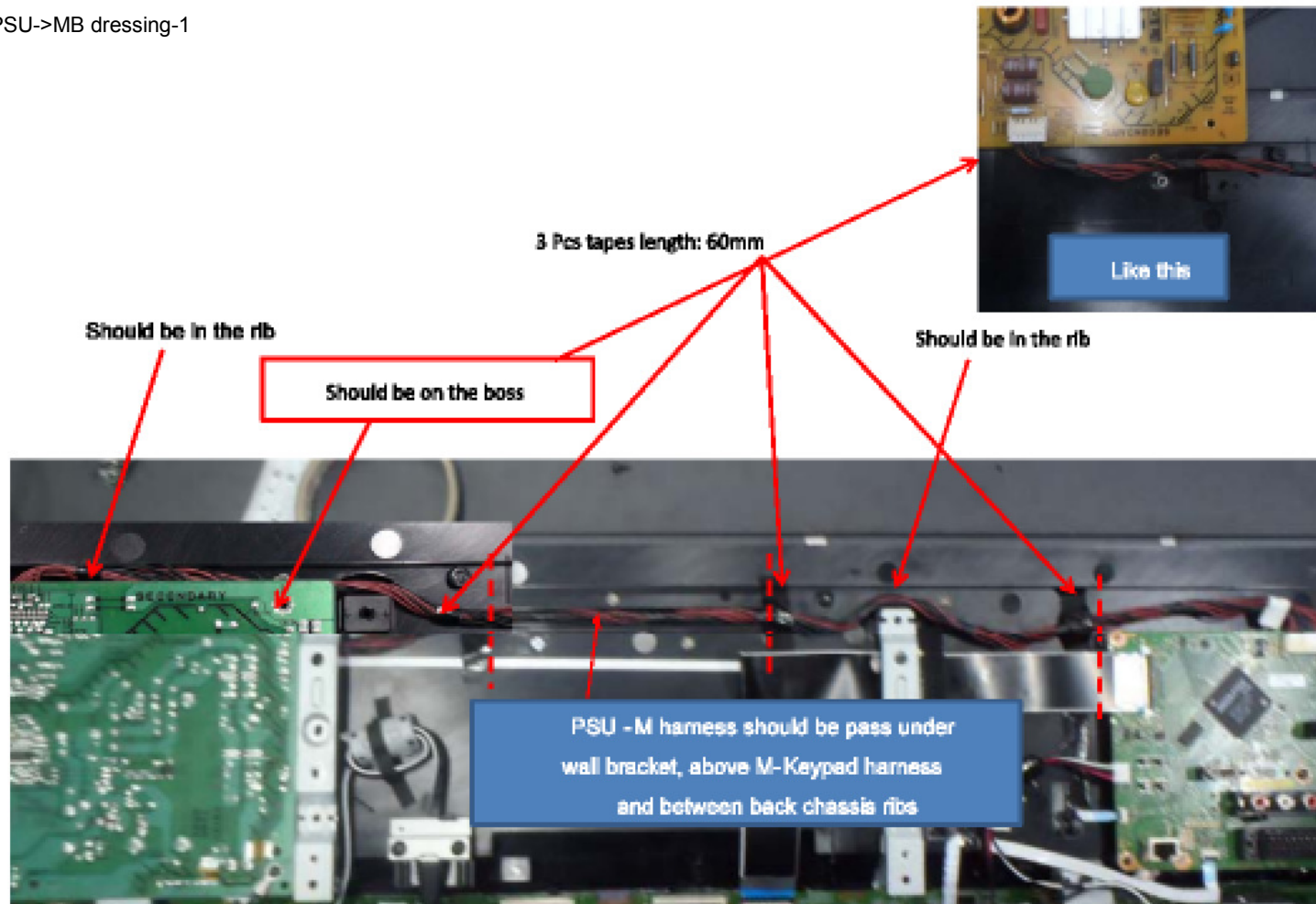
3. KDL-46R470A/473A

Keypad wire dressing-2



3. KDL-46R470A/473A

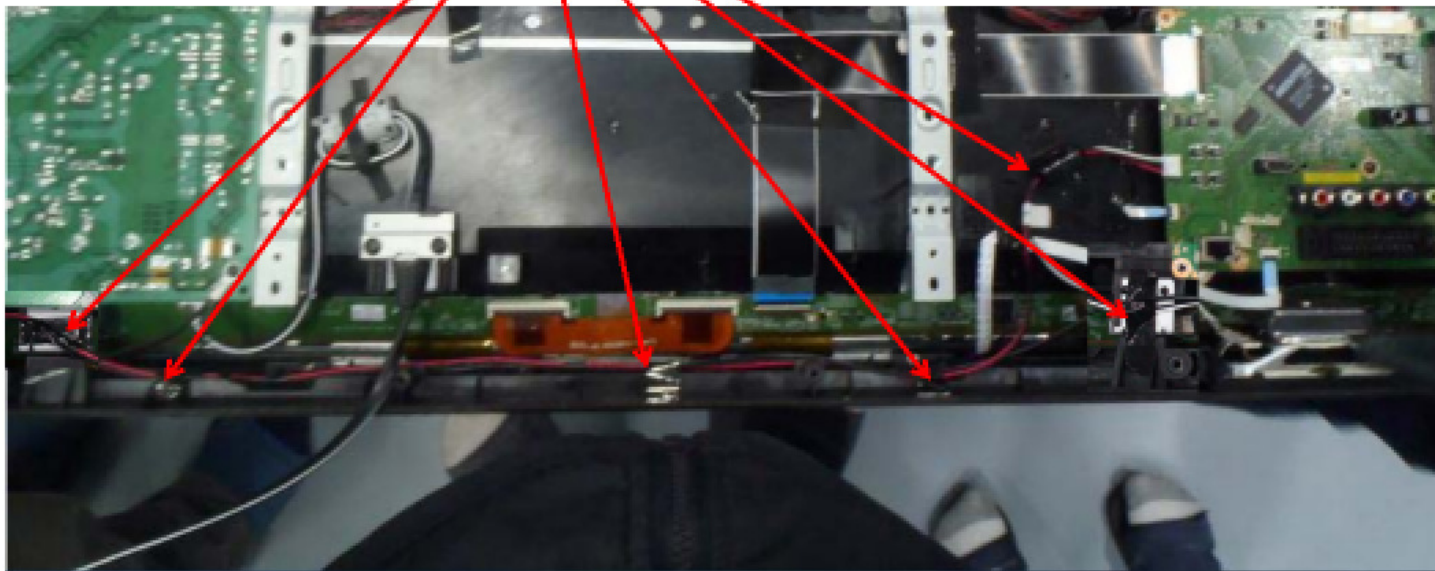
PSU->MB dressing-1



3. KDL-46R470A/473A

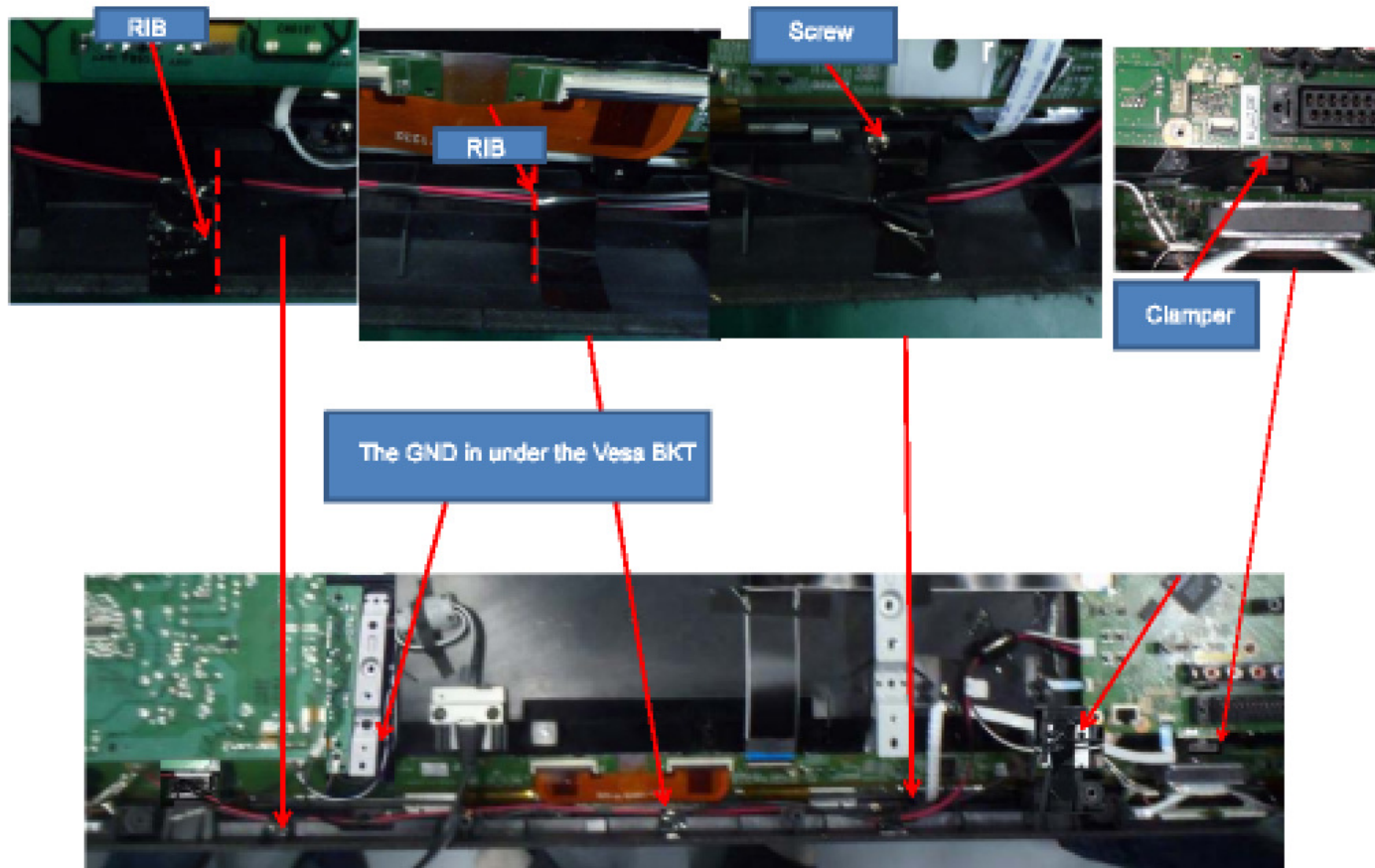
Speaker and GND combine dressing-1

6 Pcs tapes length: 60mm



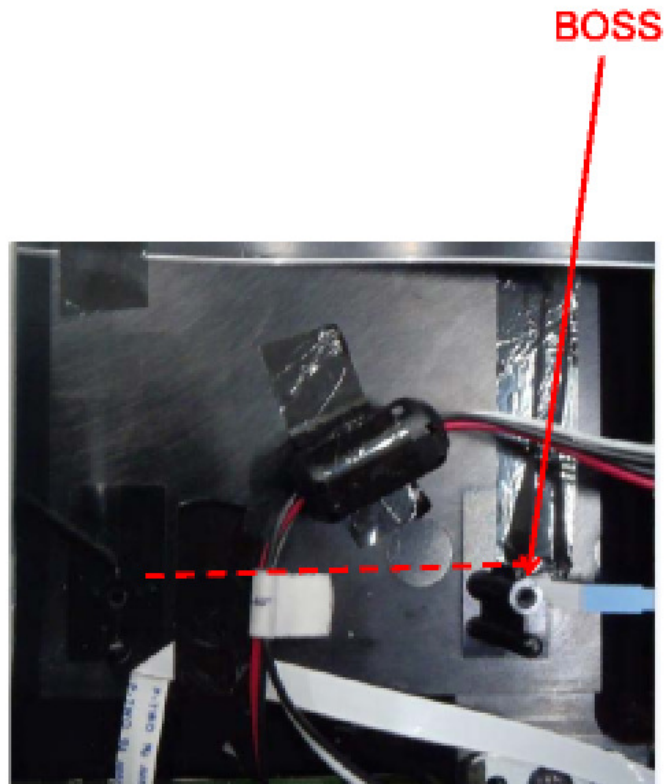
3. KDL-46R470A/473A

Speaker and GND combine dressing-2



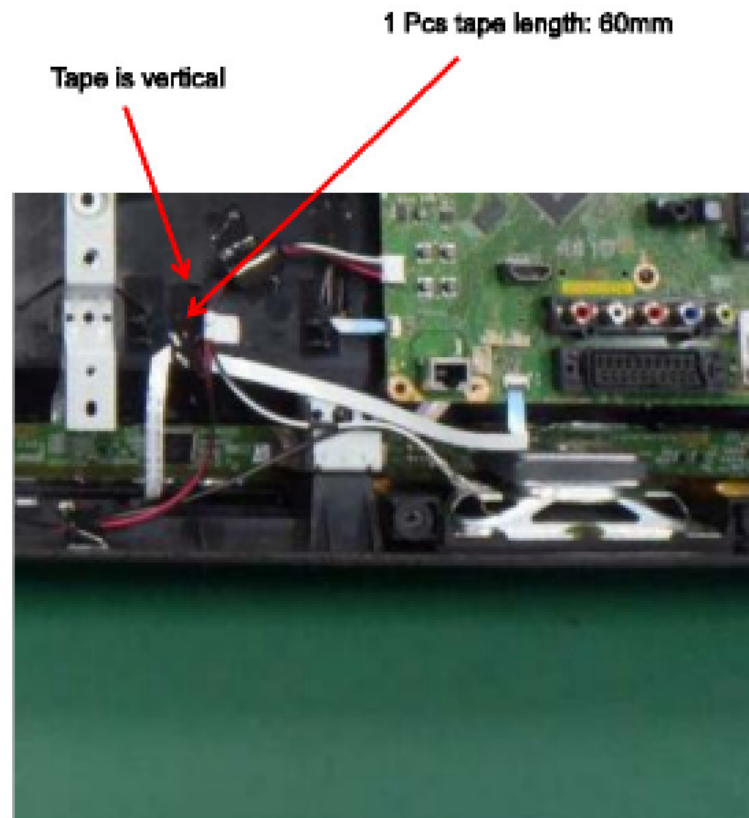
3. KDL-46R470A/473A

Speaker and GND combine dressing-3



3. KDL-46R470A/473A

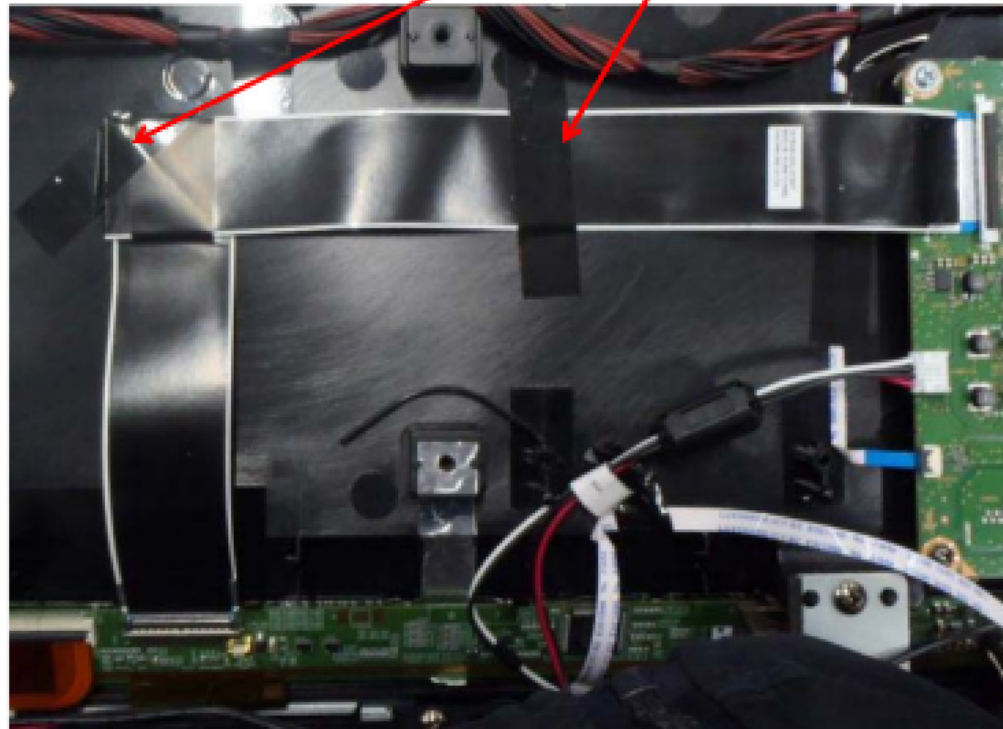
IR dressing



3. KDL-46R470A/473A

LVDS dressing

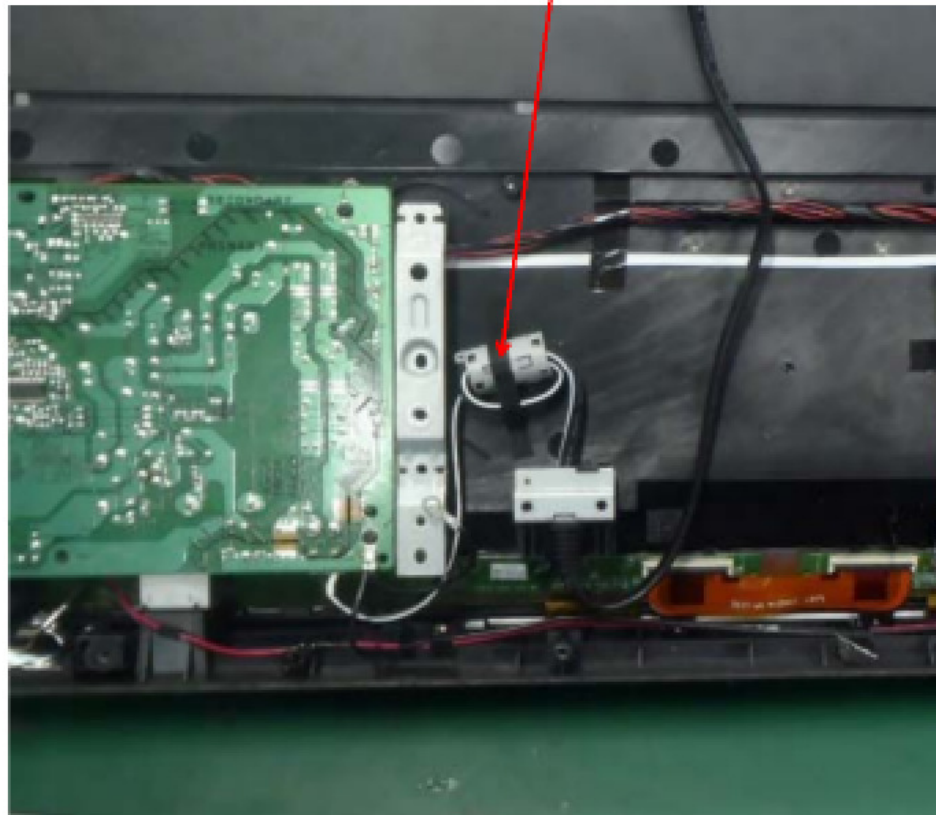
2 Pcs tapes length: 60mm



3. KDL-46R470A/473A

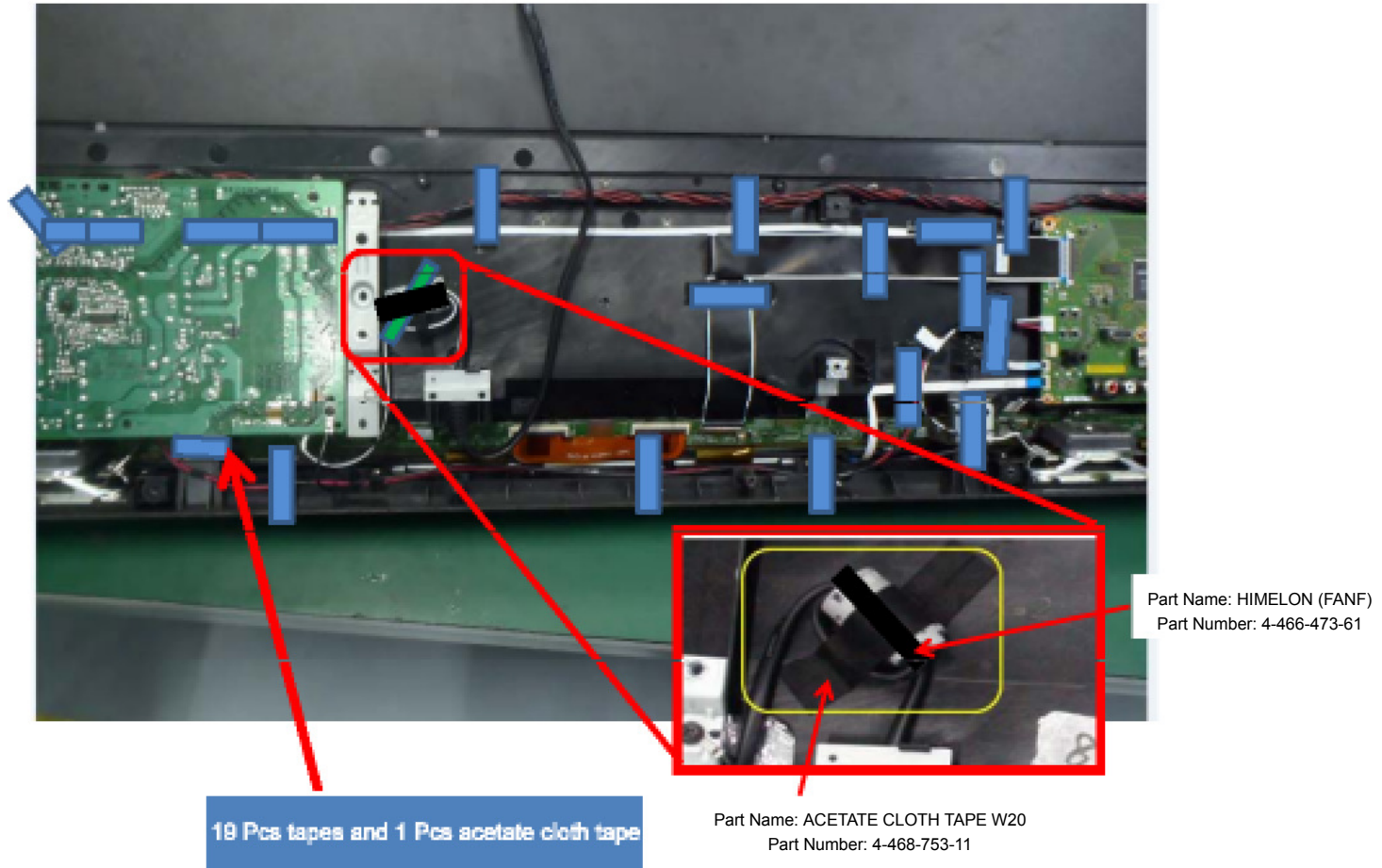
AC dressing

1 Pcs acetate cloth tape length: 100mm



3. KDL-46R470A/473A

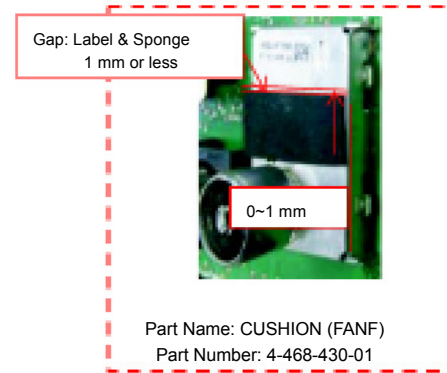
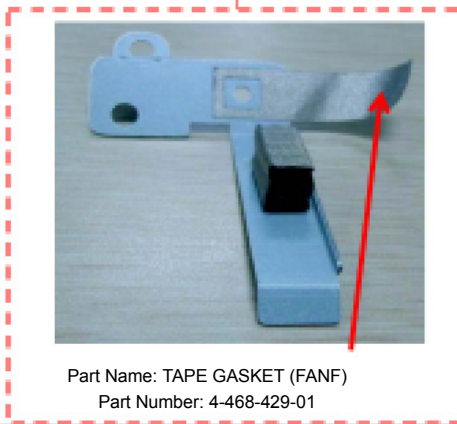
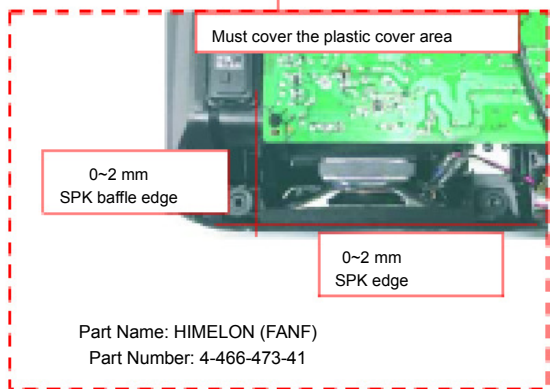
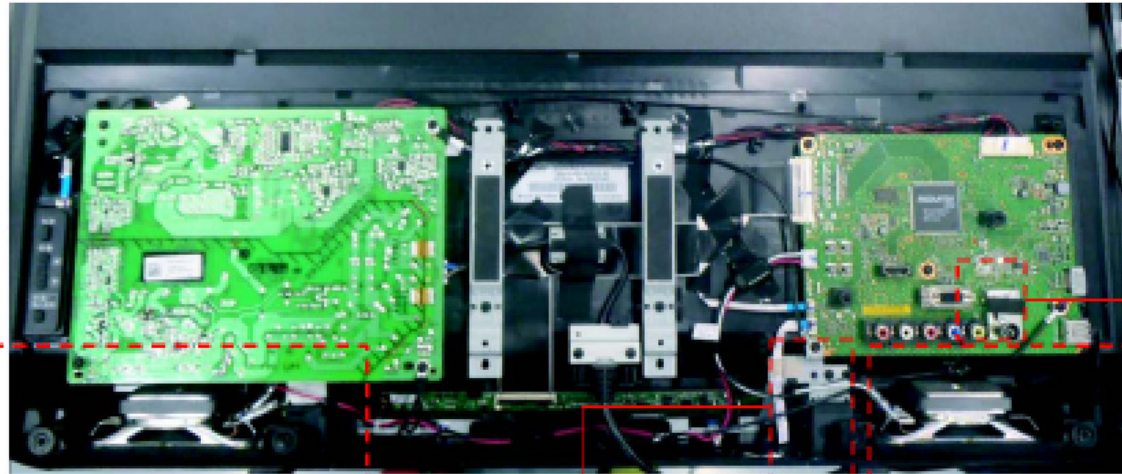
Overview



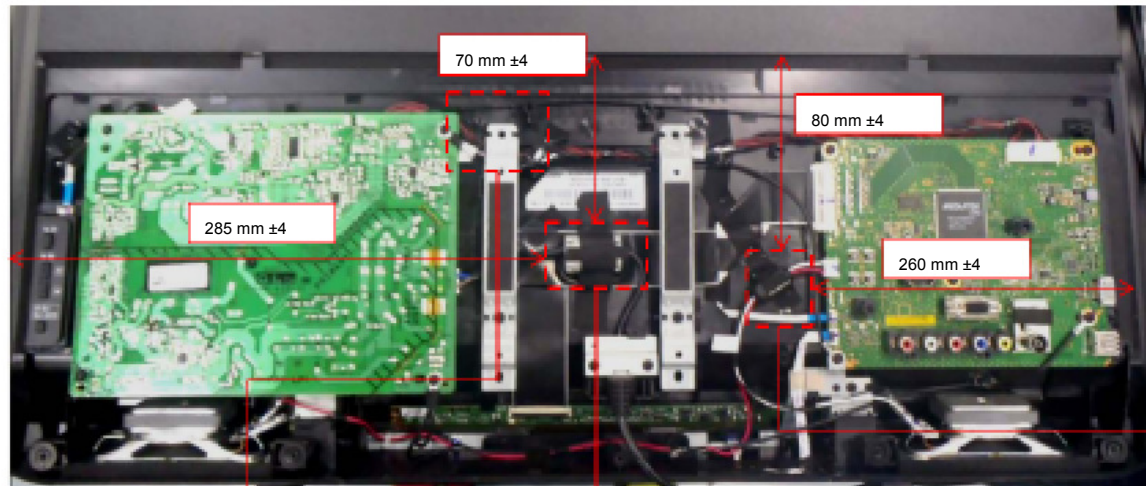
APPENDIX-2

TAPE POSITION

1. KDL-32R420A/421A/423A/424A



1. KDL-32R420A/421A/423A/424A



Paste 1 pcs tape on Vesa Bracket BTM picture red mark area

Part Name: HEMELON (FANF)
Part Number: 4-466-473-01

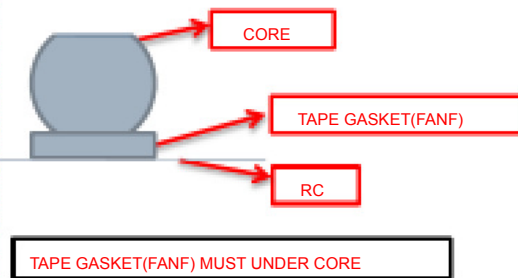
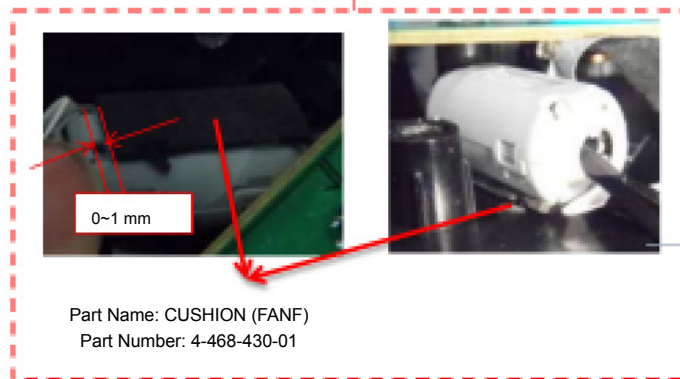
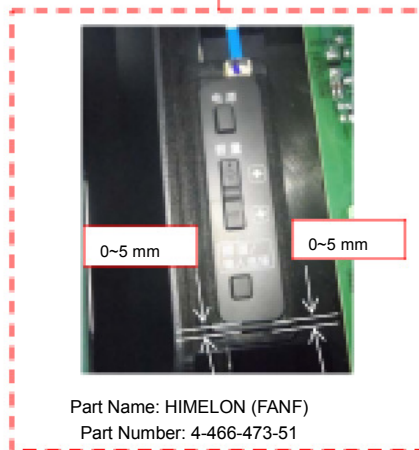
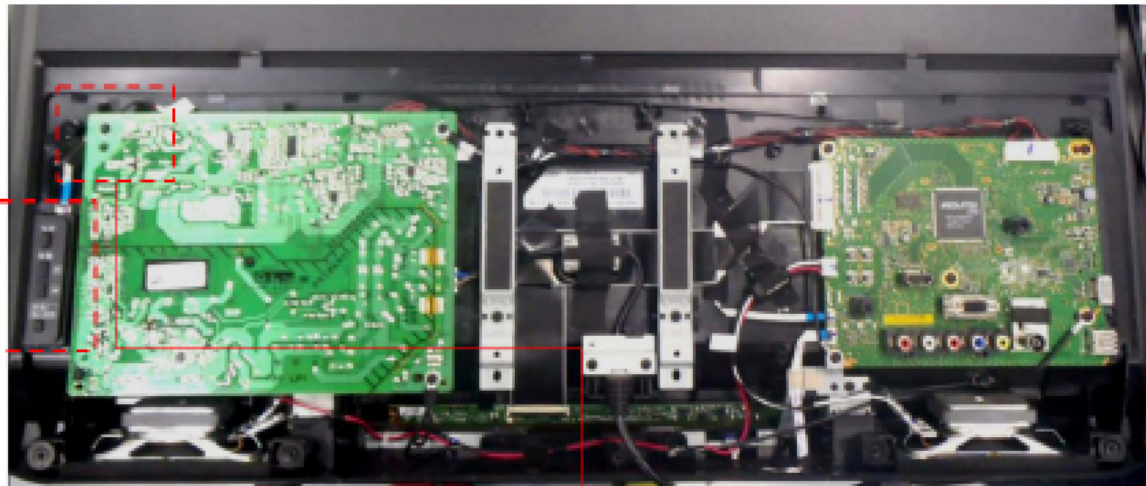


NWF must apply cover the CORE top side
Part Name: HEMELON (FANF)
Part Number: 4-466-473-71

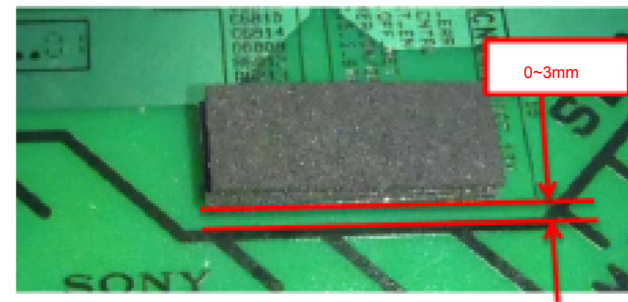
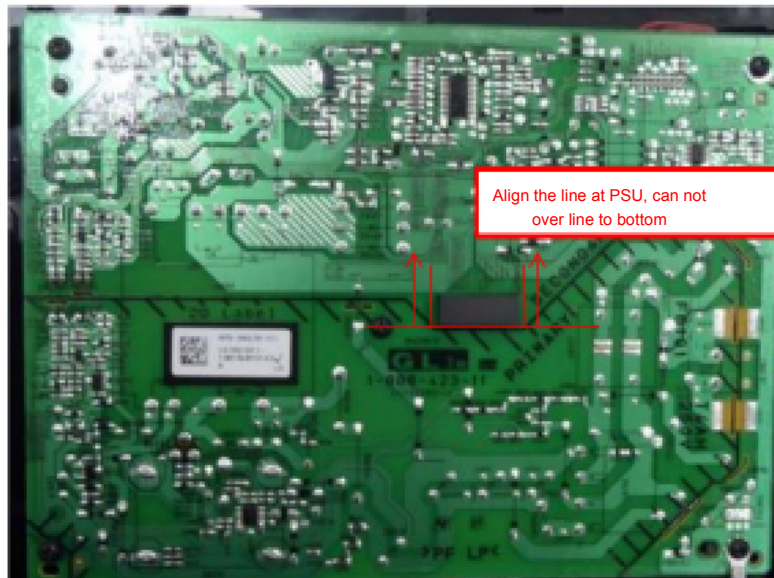


NWF must apply under the SPK core
Part Name: HEMELON (FANF)
Part Number: 4-466-473-61

1. KDL-32R420A/421A/423A/424A

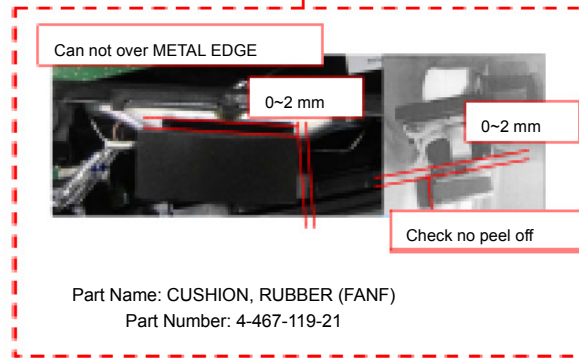
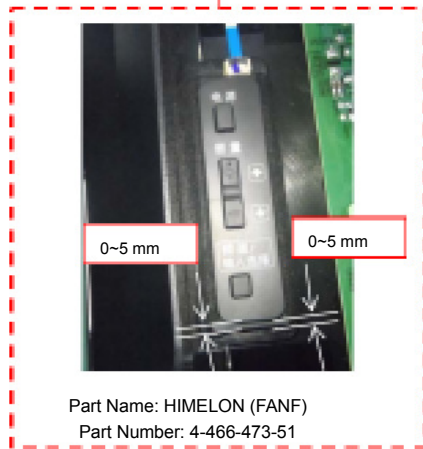
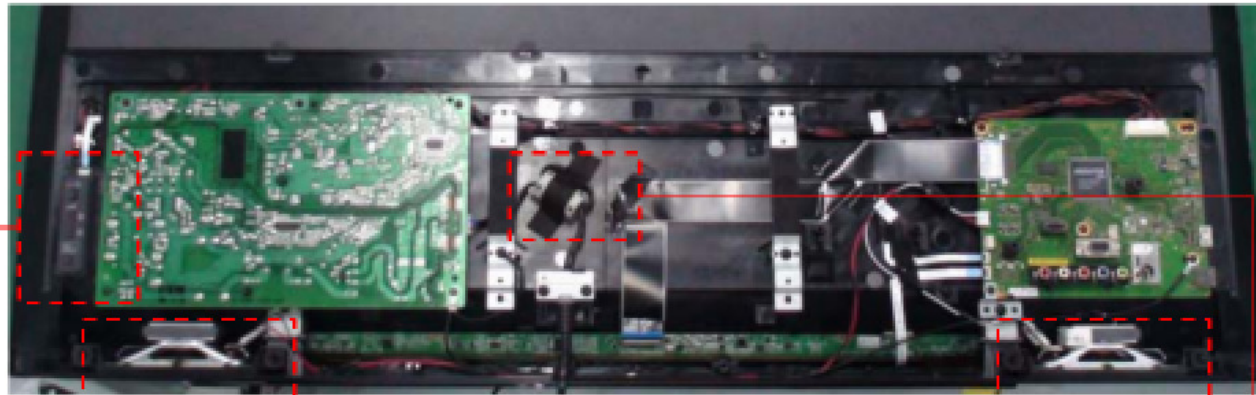


1. KDL-32R420A/421A/423A/424A

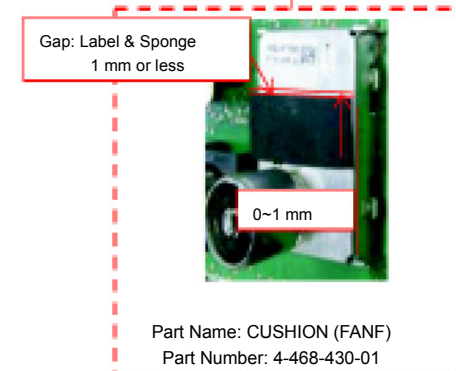
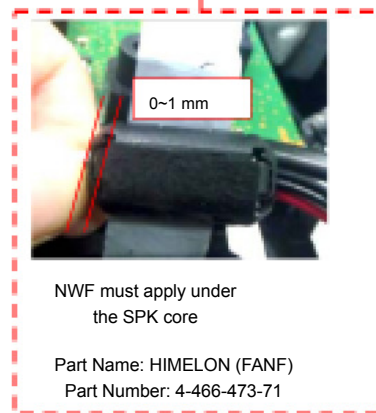
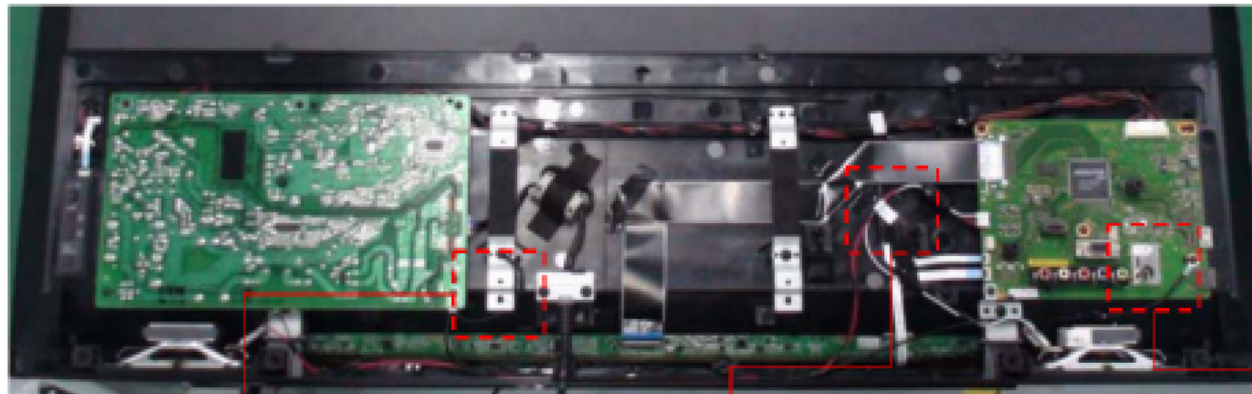


Part Name: CUSHION (FANF)
Part Number: 4-468-430-01

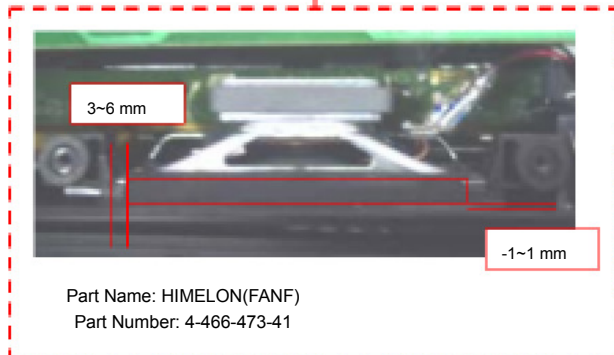
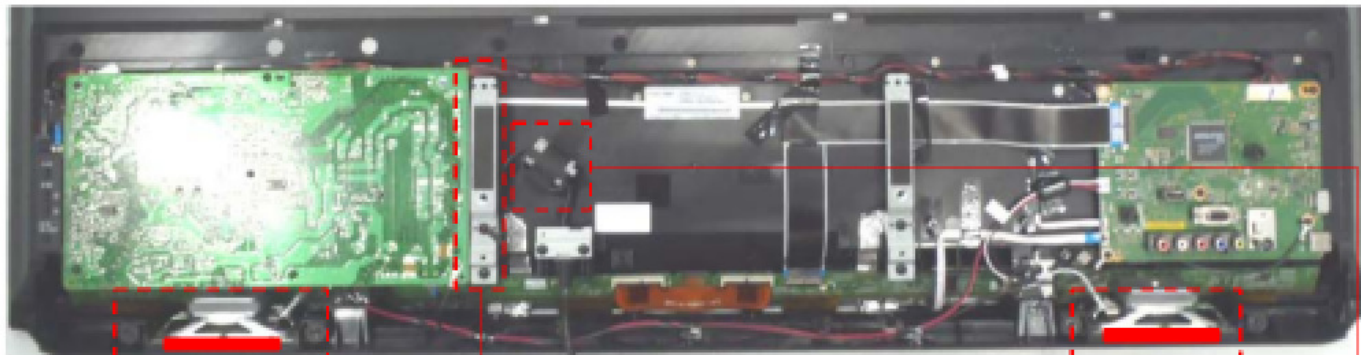
2. KDL-40R470A/471A/473A/474A



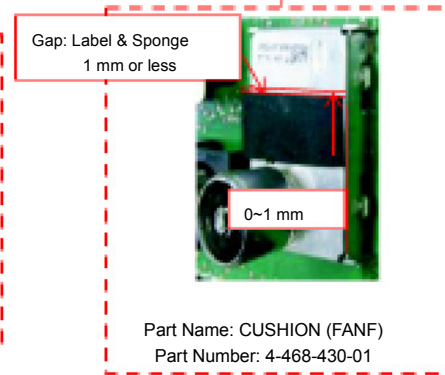
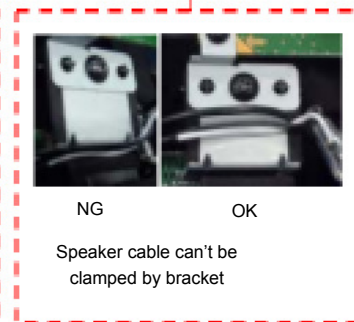
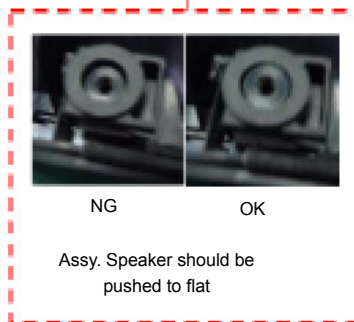
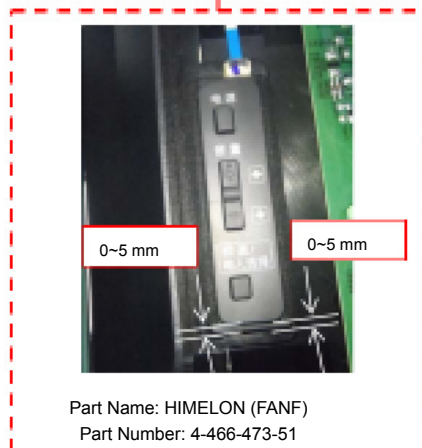
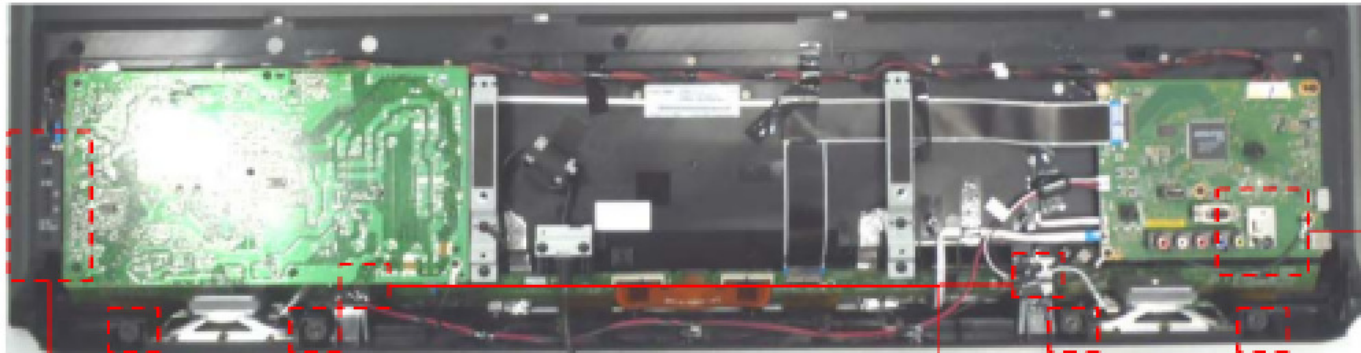
2. KDL-40R470A/471A/473A/474A



3. KDL-46R470A/473A



3. KDL-46R470A/473A



4. SMALL PARTS LIST

KDL-32R420A/421A/423A/424A

Part name	Part number	T (mm)	W (mm)	L (mm)	Qty/Set	Primary part (Adherence)
HIMELON (FANF)	4-466-473-41	0.7	8	110	2	SPEAKER
TAPE GASKET (FANF)	4-468-429-01		10	35	1	ESD BKT
CUSHION (FANF)	4-468-430-01	1	8	20	2	MB TUNER/LED CORE
HIMELON (FANF)	4-466-473-01	0.25	8	25	1	VESA BKT
HIMELON (FANF)	4-466-473-61	0.5	8	25	1	AC CORE
HIMELON (FANF)	4-466-473-51	0.4	8	70	2	SIDE KEY
CUSHION (FANF)	4-468-430-11	6	8	20	1	PSU
HIMELON (FANF)	4-466-473-71	0.4	8	20	1	SPEAKER CORE

KDL-40R470A/471A/473A/474A

Part name	Part number	T (mm)	W (mm)	L (mm)	Qty/Set	Primary part (Adherence)
CUSHION, RUBBER (FANF)	4-467-119-21	5	20	50	2	SPEAKER
CUSHION (FANF)	4-468-430-01	1	8	20	1	MB TUNER
HIMELON (FANF)	4-466-473-01	0.25	8	25	1	VESA BKT
HIMELON (FANF)	4-466-473-51	0.4	8	70	2	SIDE KEY
HIMELON (FANF)	4-466-473-61	0.5	8	25	1	AC CORE
HIMELON (FANF)	4-466-473-71	0.4	8	20	1	SPEAKER CORE

KDL-46R470A/473A

Part name	Part number	T (mm)	W (mm)	L (mm)	Qty/Set	Primary part (Adherence)
HIMELON (FANF)	4-466-473-41	0.7	8	110	2	SPEAKER
CUSHION (FANF)	4-468-430-01	1	8	20	1	MB TUNER
HIMELON (FANF)	4-466-473-01	0.25	8	25	1	VESA BKT
HIMELON (FANF)	4-466-473-51	0.4	8	70	2	SIDE KEY
HIMELON (FANF)	4-466-473-61	0.5	8	25	1	AC CORE

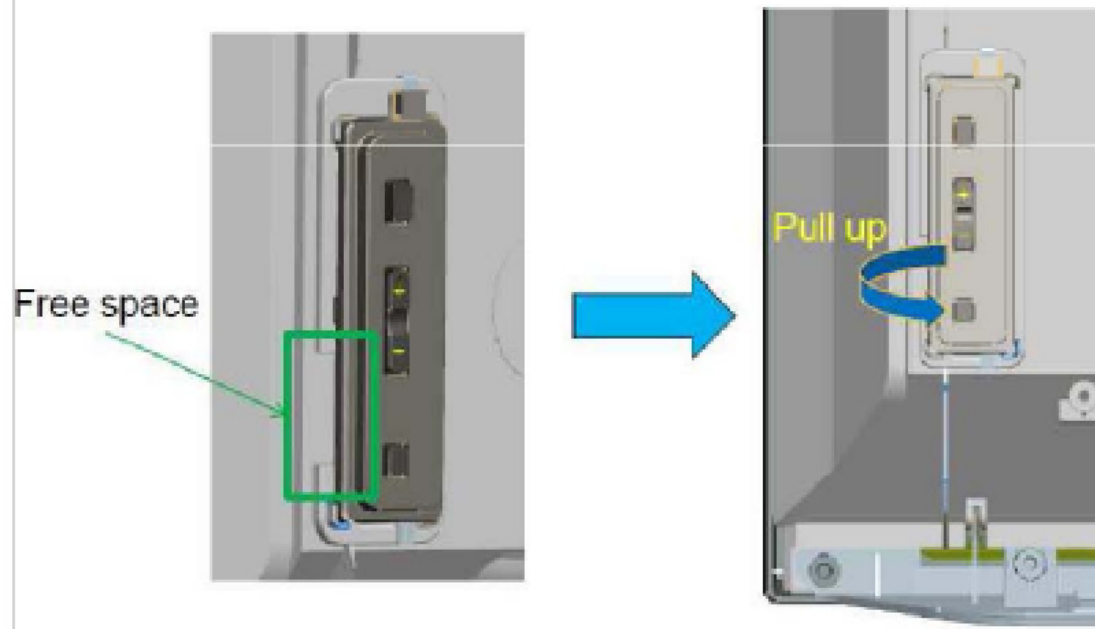
COMMON

Part name	Part number	T (mm)	W (mm)	L (mm)	Qty/Set	Primary part (Adherence)
ACETATE CLOTH TAPE W10	4-468-753-01		10		1	
ACETATE CLOTH TAPE W20	4-468-753-11		20		1	

APPENDIX-3

SWITCH UNIT DISASSEMBLY

Insert your finger on the free space on the left side of the pocket where the side key was installed and pull up



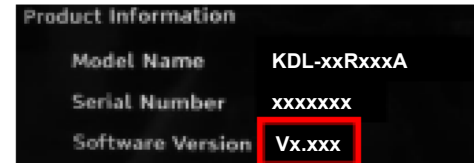
APPENDIX-4

SOFTWARE DATA UPDATE

THE CONFIRMATION OF THE SOFTWARE VERSION OF THE TV SET

To confirm the current software version of the TV set on product information of setting menu.

[HOME] > [Settings] > [Set-up] > [Product Information]



Product Information	
Model Name	KDL-xxRxxxA
Serial Number	xxxxxxx
Software Version	Vx.xxx

SOFTWARE DOWNLOAD

#1 Download the “**sony_tvupdate_2013_xxxx_aef_auth.zip**” file.

(xxxx shows Software Version)

#2 The downloaded software file is compressed (.zip), please Unzip it.

A new software folder will be created called “**sony_dtv027000097009_00000100**”

#3 Store the new software folder to USB memory.

(Applicable USB memory : Format by FAT32, USB2.0 type)

(Note)
Please store only one software update folder (“ **sony_dtv027000097009_00000100** ”) on USB memory.

SOFTWARE UPDATE BY USB MEMORY

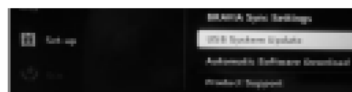
1. Turn on the TV.
2. Insert USB device which is contained new software folder.



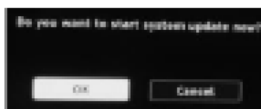
3. Open the MENU using "HOME" key and Select the "Settings".



4. Choose "USB System Update" from set-up menu.



5. Start the system update.
You can see the "Do you want to start system update now" sentence.



Push "OK" then start "Scanning..."



WARNING:
During the firmware installation process,
do not remove the USB device, or switch off the TV set or
remove the power.

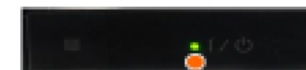
6. You can see the attention of sentence.

Push "OK" then...

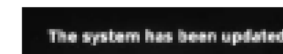
- 1) Starting system update (1-2min).



Orange LED was flashing.



- 2) Finish update.



- 3) Lights up Green LED again and TV is turned on automatically.



7. Disconnect USB memory.

CONFIRM SOFTWARE VERSION

Please confirm whether it is the latest software version by product information menu.

[HOME] > [Settings] > [Set-up] > [Product Information]