Self Diagnosis Supported model

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

REPAIR MANUAL

RB2T *Chassis*

Segment: HA

XBR-70X850B

MODEL	COMMANDER	DESTINATION
XBR-70X850B	*RM-YD102 /RMF-YD003*	*US/CND*

Version	Date	Subject
1.0	04/28/2014	Original Manual Release Date.

LCD Digital Color TV

SONY®

9-888-607-01

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Appendix A: Encryption Key Components A-1

CAUTIONS AND WARNINGS

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, in case of live chassis.

⚠ SAFETY-RELATED COMPONENT WARNING!!

There are critical components used in LCD color TVs that are important for safety. These components are identified with shading and ⚠ mark on the schematic diagrams and the parts list. It is essential that these critical parts be replaced only with the part number specified in the parts list to prevent electric shock, fire or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor warranty.

ATTENTION!!

For safety reasons, component level repair of the Power Supply Boards and/or the Inverter Boards is prohibited.

CAUTION ABOUT THE LITHIUM BATTERY!!

Replace only with the same or equivalent type. Danger of explosion may occur if battery is replaced incorrectly. Exposed battery should not be in contact with water.

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.

ALERTE!!

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

ATTENTION!!

Pour des raisons de sécurité, Interdire de réparer ou remplacer les composantes dans les blocs d'alimentation et/ou sur les modules d'inverseur.

AVERTISSEMENT AU SUJET DE LA PILE AU LITHIUM!!

Ne remplacez qu'avec une pile de type identique ou équivalent. Danger d'explosion si la pile est remplacée incorrectement. La pile exposée ne devrait pas être mise en contact avec de l'eau.

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 in “Leakage Test”.

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.
   Follow the manufacturers’ instructions provided with the tester.
2. A battery-operated AC milliammeter.
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. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable. (see Figure A)

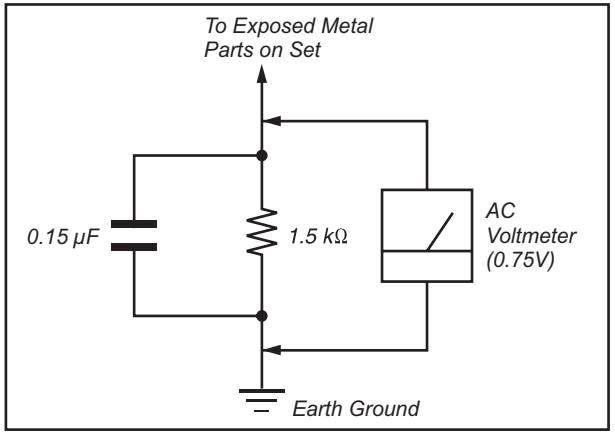


Figure A. Use an AC voltmeter to check AC leakage.

HOW TO FIND A GOOD EARTH GROUND

The cover-plate retaining screw on most AC outlet boxes is at earth ground. Verify the AC outlet box retaining screw ground by connecting a 60W to 100W incandescent (not a neon or fluorescent 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)

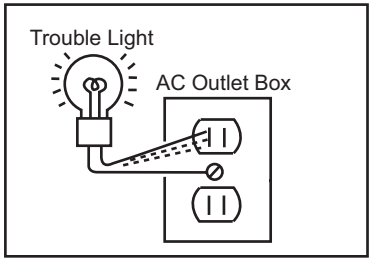


Figure B. Checking for earth ground.

SECTION 1 - SPECIFICATIONS AND LAYOUTS

SPECIFICATIONS

System	
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)
Channel coverage	Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135
Panel system	LCD (Liquid Crystal Display) Panel, LED Backlight
Speaker output	10 W +10 W
Wireless technology	Protocol IEEE802.11a/b/g/n
Input/Output jacks	
CABLE/ANTENNA	75-ohm external terminal for RF inputs
VIDEO IN 1	Video / Audio input (phono jacks)
COMPONENT IN VIDEO IN 2	YPBPR (vídeo componente): 1080p (60 Hz), 1080i (60 Hz), 720p (60 Hz), 480p, 480i Audio input (phono jacks) Video input (common phono pin with Y input)
HDMI IN 1/2/3/4 (Support 4K resolution)	Vídeo (2D): 4096 × 2160p (60 Hz)*, 4096 × 2160p (24 Hz), 3840 × 2160p (60 Hz)*, 3840 × 2160p (24, 25, 30 Hz),1080p (30, 60 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p, 480i, PC Formats * YCbCr 4:2:0 / 8 bit Vídeo (3D): Frame Packing: 1080p (30 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p Side-by-Side: 1080p (60 Hz), 1080/24p, 1080i (60 Hz), 720p (60 Hz) Over-Under: 1080p (30, 60 Hz), 1080/24p, 1080i (60 Hz), 720p (60 Hz) Audio: 5.1 channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital ARC (Audio Return Channel) (HDMI IN 1 only)
MHL (Common with HDMI IN 2/4)	Vídeo (2D): 4096 × 2160p (24 Hz)*, 3840 × 2160p (24, 25, 30 Hz)*, 1080p (60 Hz)*, 1080p (30 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p, 480i* HDMI IN 2 only Vídeo (3D): Frame Packing: 1080p (30 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p Side-by-Side: 1080p (60 Hz)*, 1080/24p, 1080i (60 Hz), 720p (60 Hz) Over-Under: 1080p (60 Hz)*, 1080p (30 Hz), 1080/24p, 1080i (60 Hz), 720p (60 Hz)* HDMI IN 2 only Audio: 5.1 channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital
AUDIO OUT/	Audio output (stereo mini jack) Headphone jack (supports Subwoofer out)
DIGITAL AUDIO OUT (OPTICAL)	Digital optical jack (Two channel linear PCM, Dolby Digital)
LAN	10BASE-T/100BASE-TX connector (Connection speed may differ depending on the network environment. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV)
USB/DLNA	Refer to the i-Manual for supported formats
Operating temperature	32 ºF – 104 ºF (0 ºC – 40 ºC)
REMOTE	RS232C, Serial Control mini jack; IR IN mini jack These jacks are for receiving the external control signal

Model name		**XBR-70X850B**
Power and others		
Power requirement		110 V - 240 V AC, 50/60 Hz (U.S.A./Canada 120 V AC, 60 Hz)
Power consumption	in use	305 W
	in standby	Less than 0.2 W with 120 V AC and less than 0.3 W with 240 V AC
Screen size* (inches measured diagonally)	(cm)	69,5 inches (70 class)
Display resolution		3,840 dots (horizontal) × 2,160 lines (vertical)
Output Rating	USB 1/3	5 V, 500 mA MAX
	USB 2	5 V, 800 mA MAX
	MHL (HDMI IN 2/4)	5 V, 900 mA MAX
Dimensions*	with stand (mm)	1,572 × 938 × 364
	with stand (inches)	62 × 38 3/4 × 14 3/8
	without stand (mm)	1,572 × 938 × 364
	without stand (inches)	62 × 37 × 3
	wall-mount hole pattern (mm)	400 x 300
	wall-mount screw size (mm)	M6 (8-12 mm)
Mass*	with stand (kg/lb)	44 / 97
	without stand (kg/lb)	43 / 94, 8
Others		
Optional accessories		Wireless Subwoofer: SWF-BR100 MHL Cable: DLC-MC20 Active 3D Glasses: TDG-BT500A Active 3D RF

* Screen size, dimensions and mass are approximate values.

- Optional accessories availability depends on countries/region/TV model/stock.
- Design and specifications are subject to change without notice.
- Power consumption will increase when Port Replicator is connected to the TV.
- This TV set incorporates MHL 2 for HDMI IN 4/MHL and MHL 3 for HDMI IN 2/MHL.

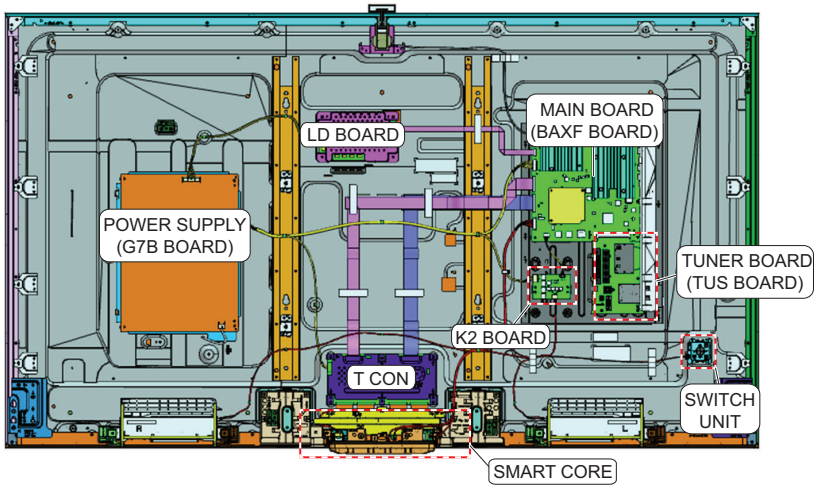
CHECKING THE ACCESSORIES

- IR Remote Control (1)*
-Touchpad Remote Control (1)*
- Size AAA batteries (4)
- Fixing Screws for Table-Top Stand (M5 × 12) (4)
- IR Blaster (1)
- Active 3D Glasses (battery included) (2)
- Operating Instructions and other documents
- Port Replicator accessories (set)

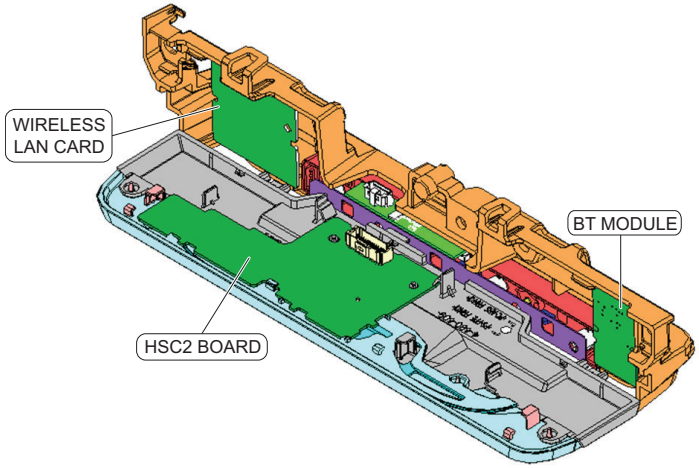
* Refer to the model name printed on the remote control.

BOARD LAYOUT

XBR-70X850B

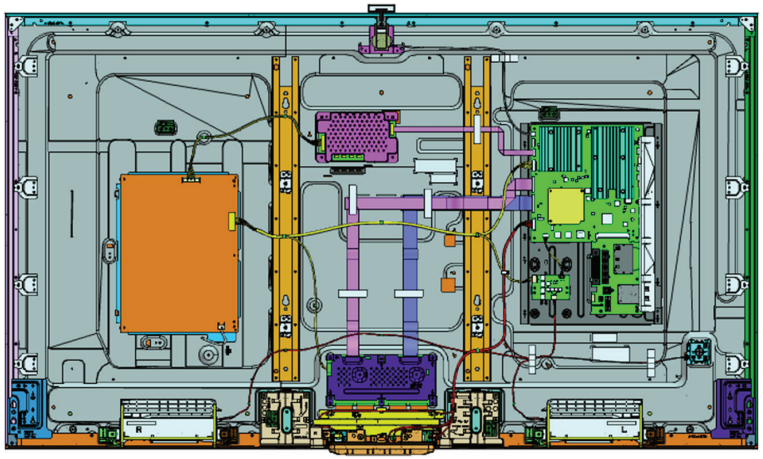


SMART CORE BLOCK

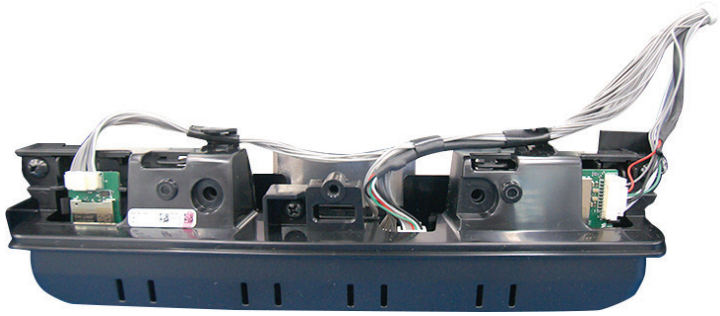


WIRE DRESSING

XBR-70X850B



SMART CORE BLOCK



SECTION 2 - TROUBLESHOOTING

Self Diagnosis Supported model

DIAGNOSING THE ERROR

Before servicing the Television:

1. Verify the TV has the symptom the customer indicated.
2. Check to see if the latest Software is installed.
   a. If not, install the latest version.
3. Determine the replacement part required.

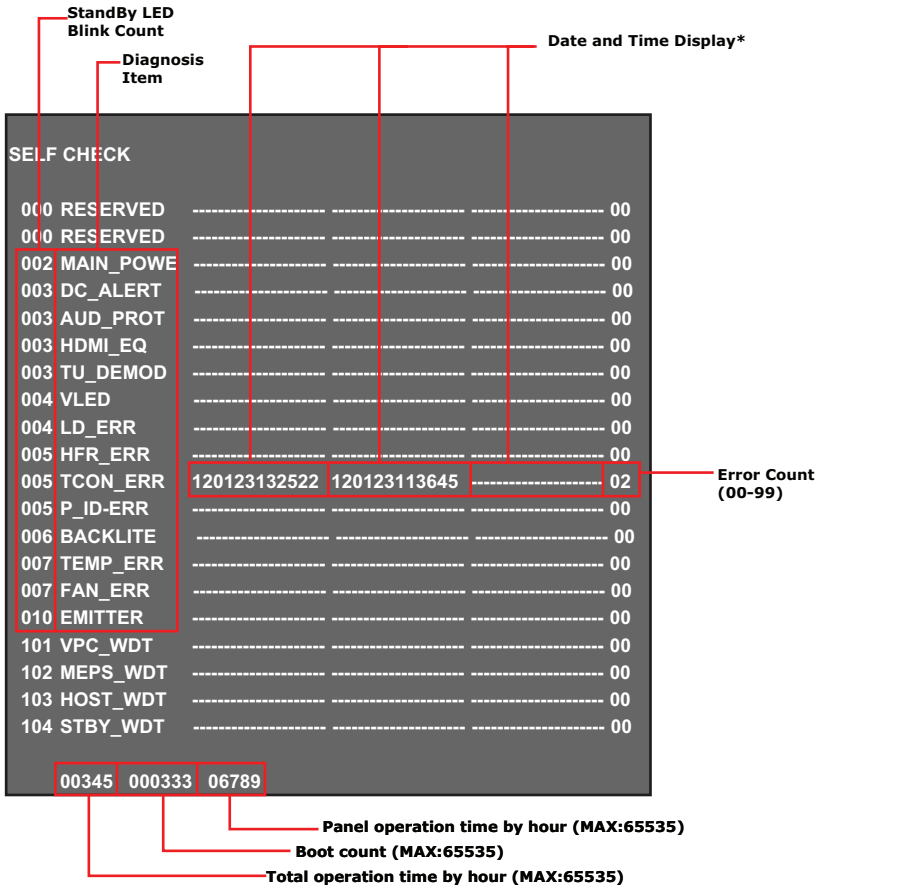
VIEWING THE SELF CHECK DIAGNOSIS HISTORY

When an error is detected, the Self Check screen records the number of times the error occurred. This is helpful in confirming past occurrences of an error and for determining if an error is intermittent when the customer is not sure what is causing the television to shut down. If the screen displays a “0”, no error has occurred.

1. Press POWER to turn on the TV and then turn it off again.
2. Press the following buttons on the ***Remote Commander*** within 1 second of each other:

DISPLAY ➡ Channel 5 ➡ Volume – ➡ POWER

NOTE: This differs from accessing Service Adjustments Mode (Volume +).



*Format of Error History = YYMMDDhhmmss example 120123132522= Jan 23, 2012 13:25:22 (1:25:22PM)
NOTE: date and time must be set for this to work

SAMPLE SELF CHECK DIAGNOSIS PAGE

TRIAGE CHART

Use this general Triage Chart to determine what may possibly be causing the error before going out to the customers location.

1. **Confirm the symptom from the customer.**
2. **Select that symptom from the chart.**
3. **Bring the primary component listed for that symptom.**
4. **Follow the associated flowcharts in the Training Manual to isolate the board.**
5. **Chart Color Code.**

Red Dot: (Primary) Most likely defective part.
Blue Triangle: (Secondary) Possible defective part.

Board Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences								No Power	Video			Remote	Network		Audio	Skype	Smart Core
	2X	3X	4X	5X	6X	7X	8X	9X	No White Power LED	Steady lines or dots	No Video One of Inputs	No Video All Inputs	No Remote (IR RC)	Wireless can't connect	Bluetooth can't connect	No Audio	Can't work	No LED
MAIN BOARD	▲	●		▲	▲	●	●		▲	▲	●	●	▲	▲	▲	▲	▲	▲
TUNER BOARD		▲					▲	●		▲	●	●				▲		
K BOARD		▲														●		
POWER SUPPLY	●	▲		▲	●				●							▲		
H BOARD													●					●
SPEAKER		▲														●		
CAMERA MODULE																	▲	
MIC MODULE																	●	
WIFI							●							●			▲	
BT MODULE															●			
LD BOARD			●									▲						
LVDS FFC					▲					▲		▲						
TCON			▲	●	▲					▲		▲						
LCD PANEL			●	●	●	▲				●		▲						

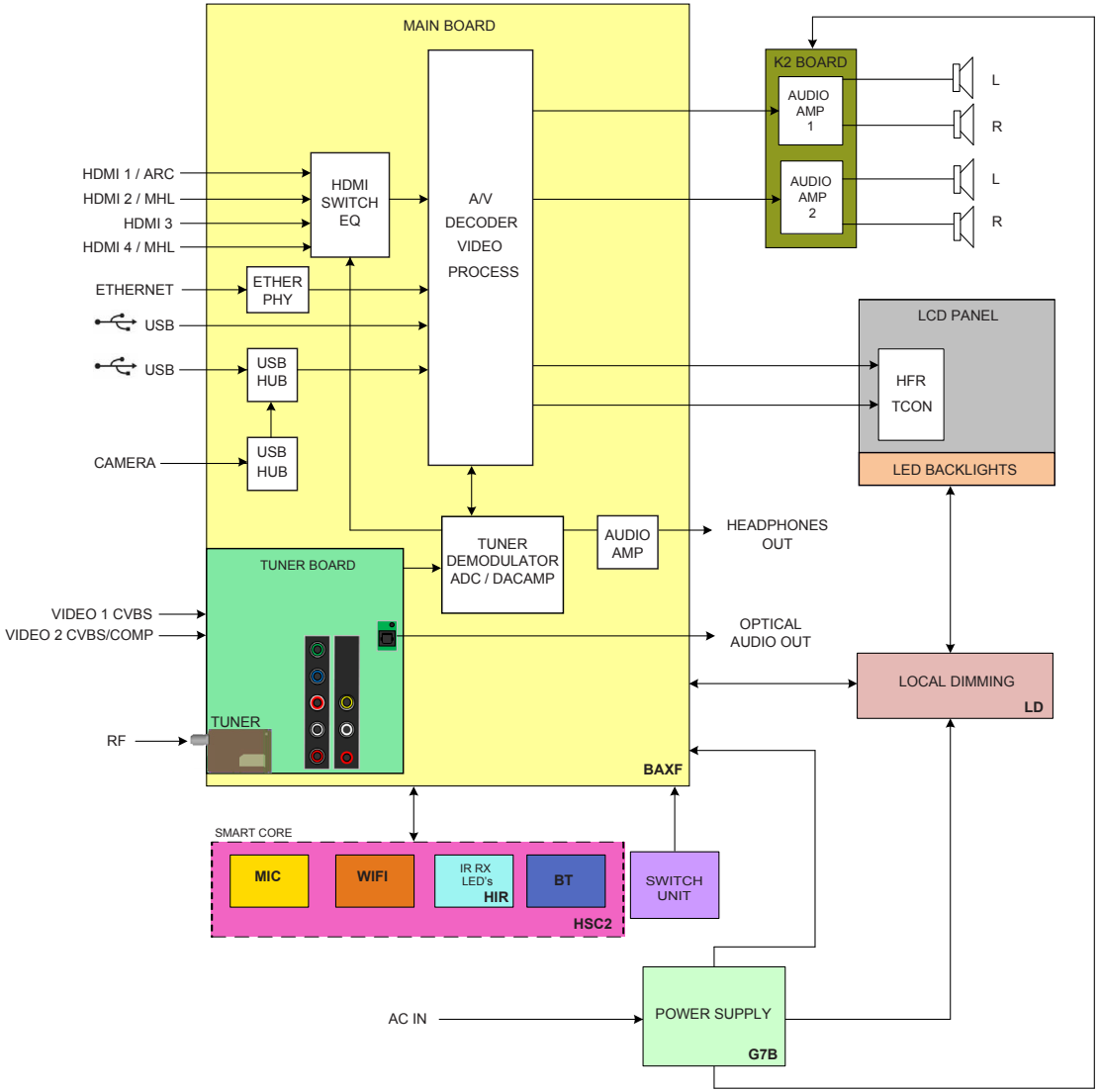
Problem	POWER	POWER	LD	TCON	BACK-LIGHT	TEMP	SOFT-WARE
		AUDIO					
		LOCAL I2C					
		4K UNIQUE (ROGUE/ SCORPIO 4K FRC)					

***NOTE:** REFER TO LCD PANELS SERVICE MANUAL IN REFERENCE LIBRARY DATABASE FOR CORRECT REPLACEMENT PARTS BASED ON SERIAL NUMBER.

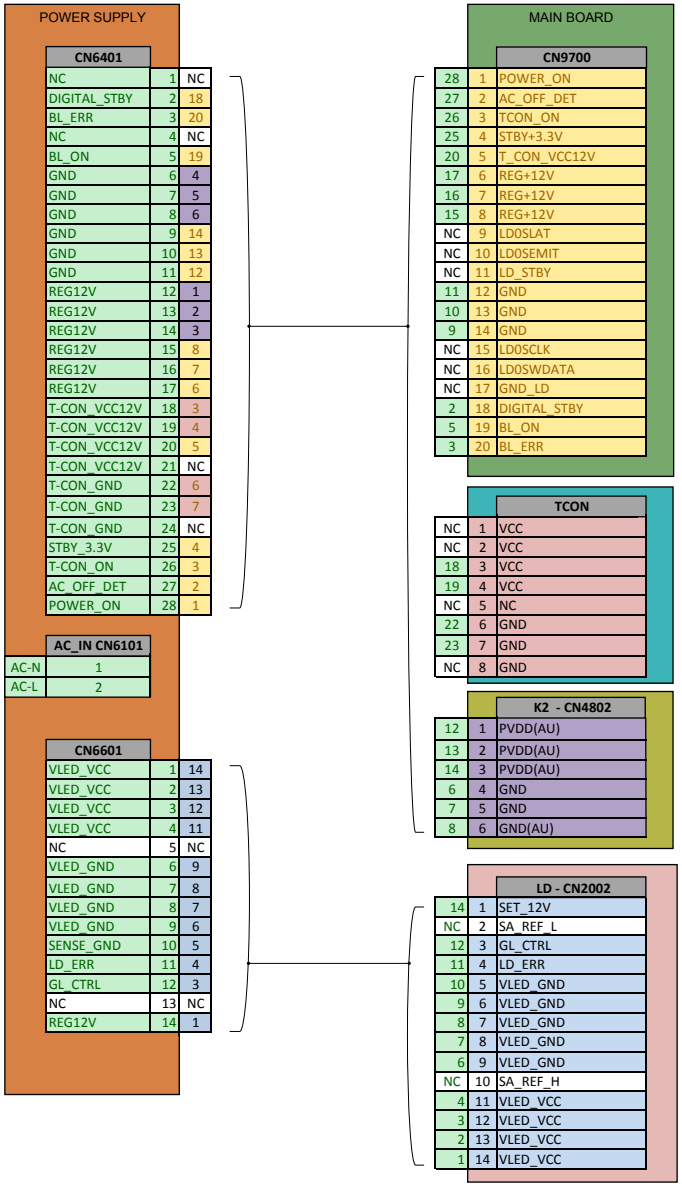
To access the most recent version of the Triage documents for the models listed in this manual, login into the Sony Authorized Service Portal at http://www.sony.com/asp.

FLOWCHARTS AND DIAGRAMS

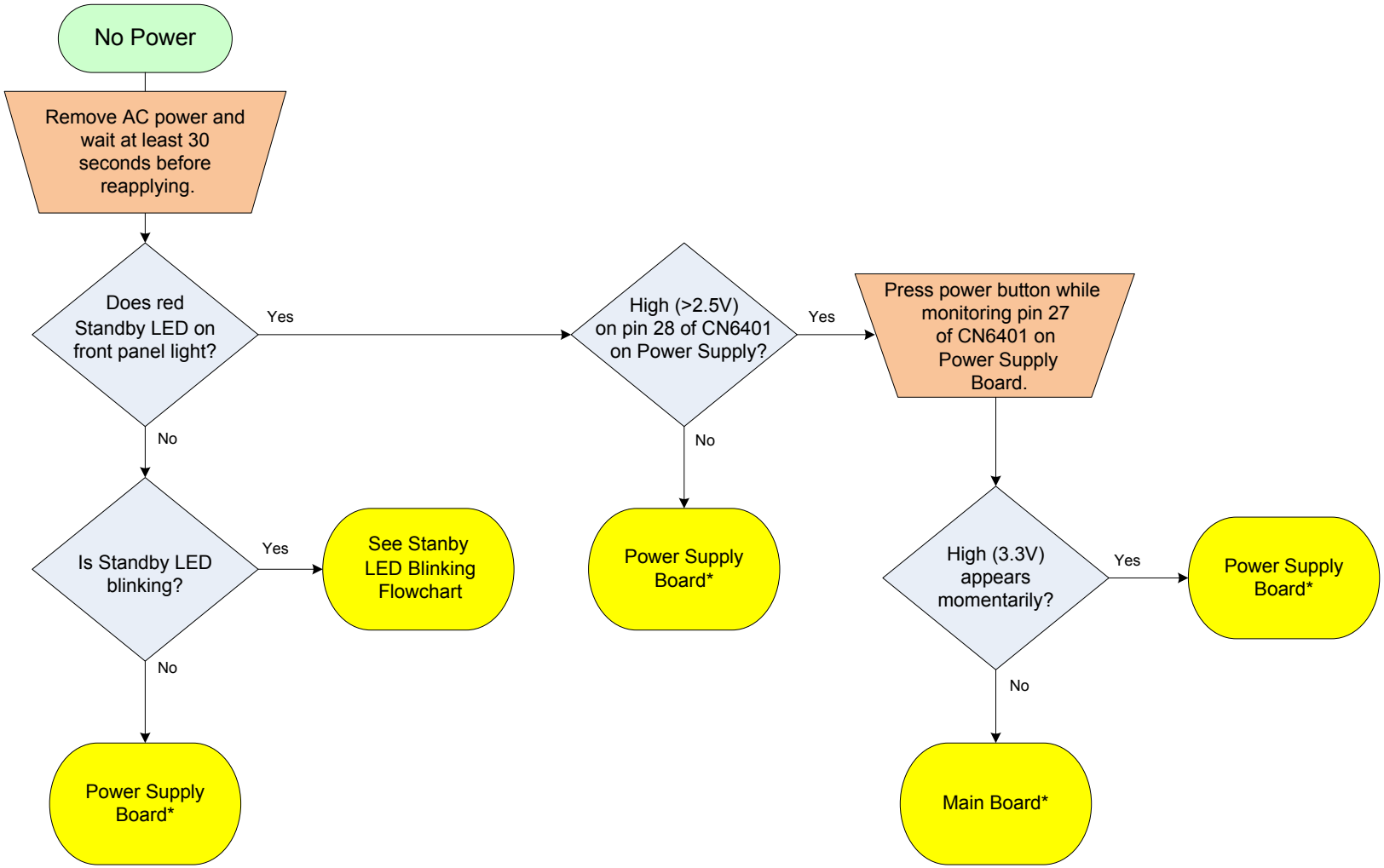
OVERALL BLOCK DIAGRAM



POWER AND CONTROL BLOCK DIAGRAM

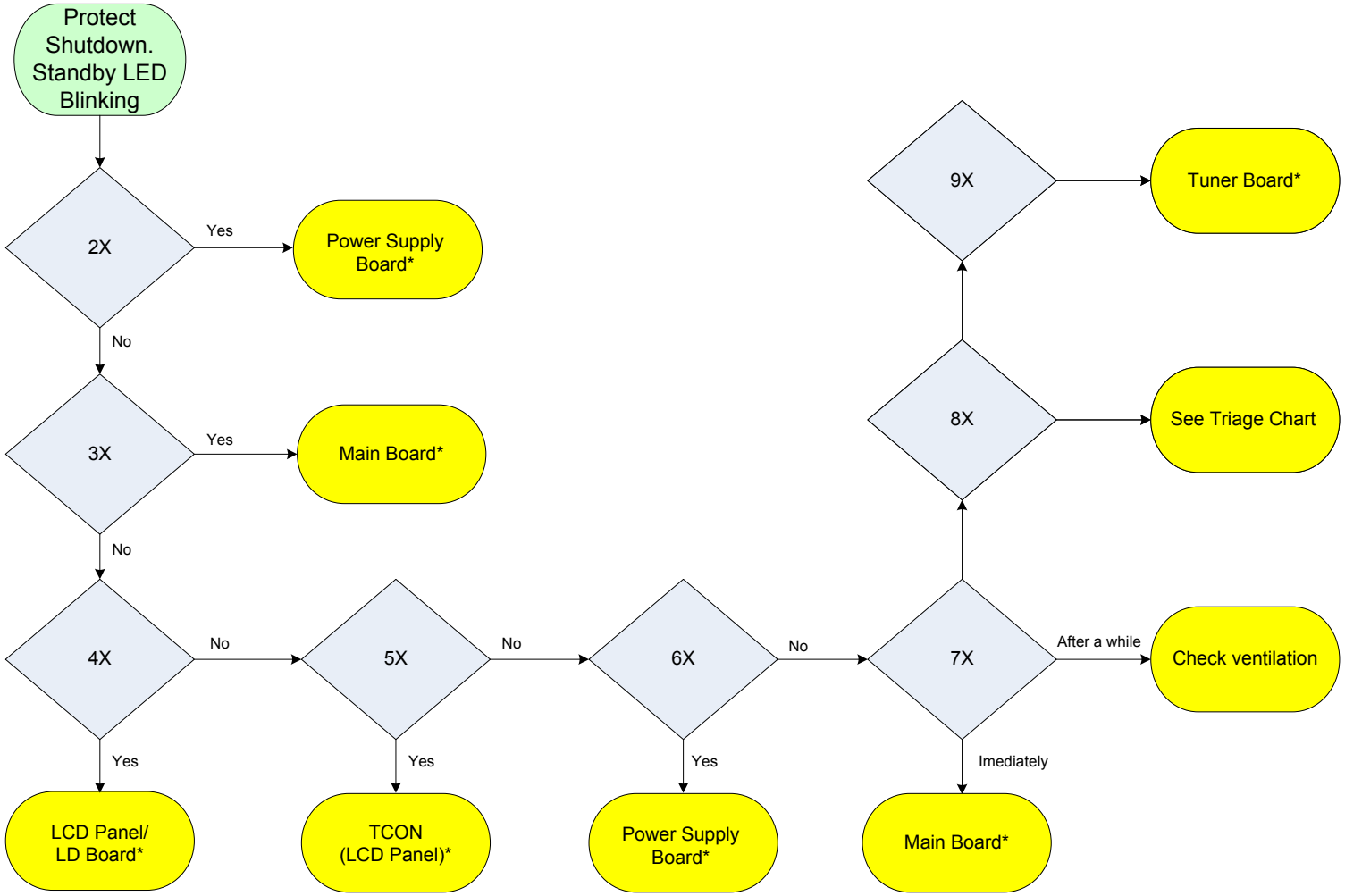


NO POWER FLOWCHART



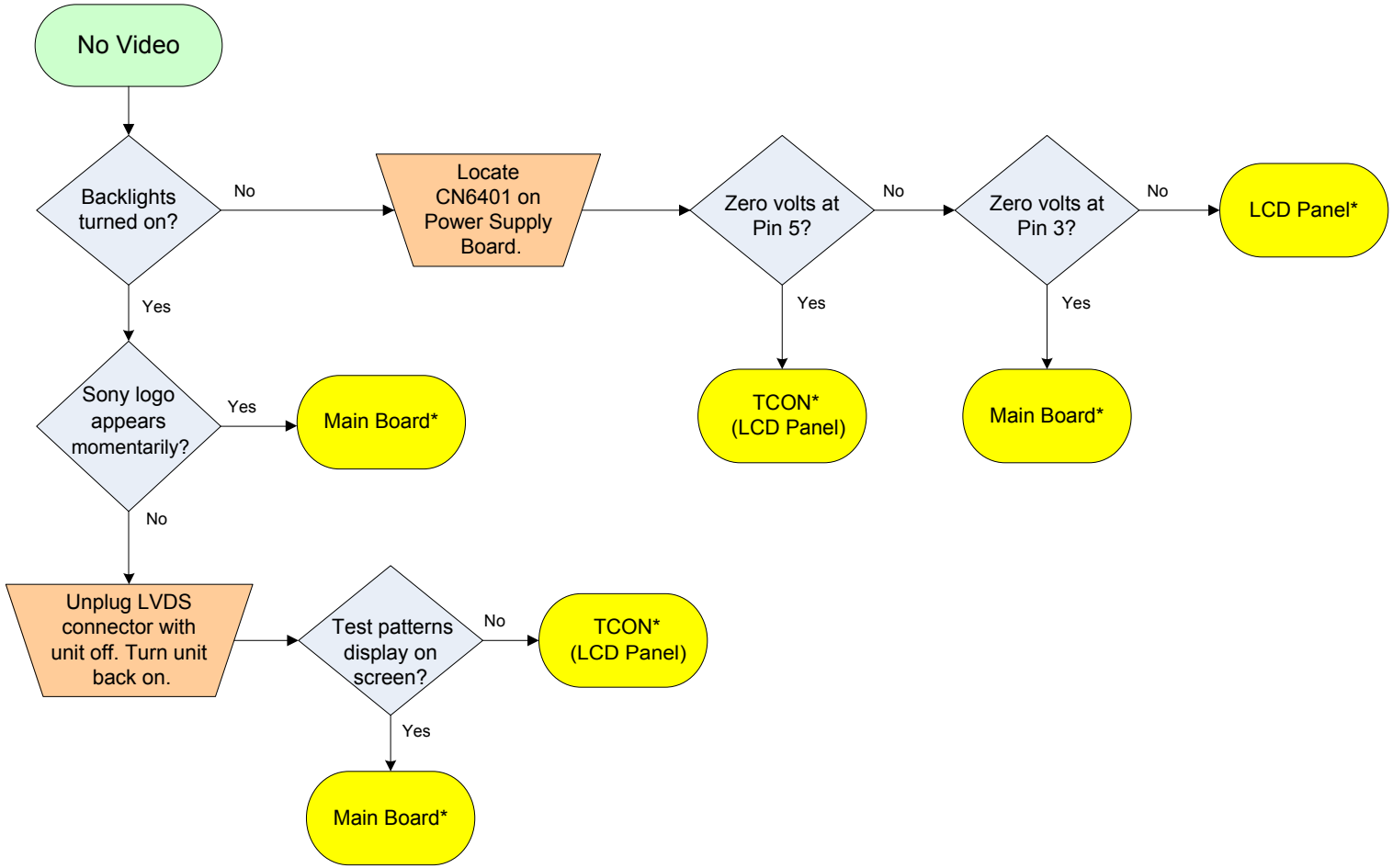
*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 20.

STANDBY LED BLINKING FLOWCHART



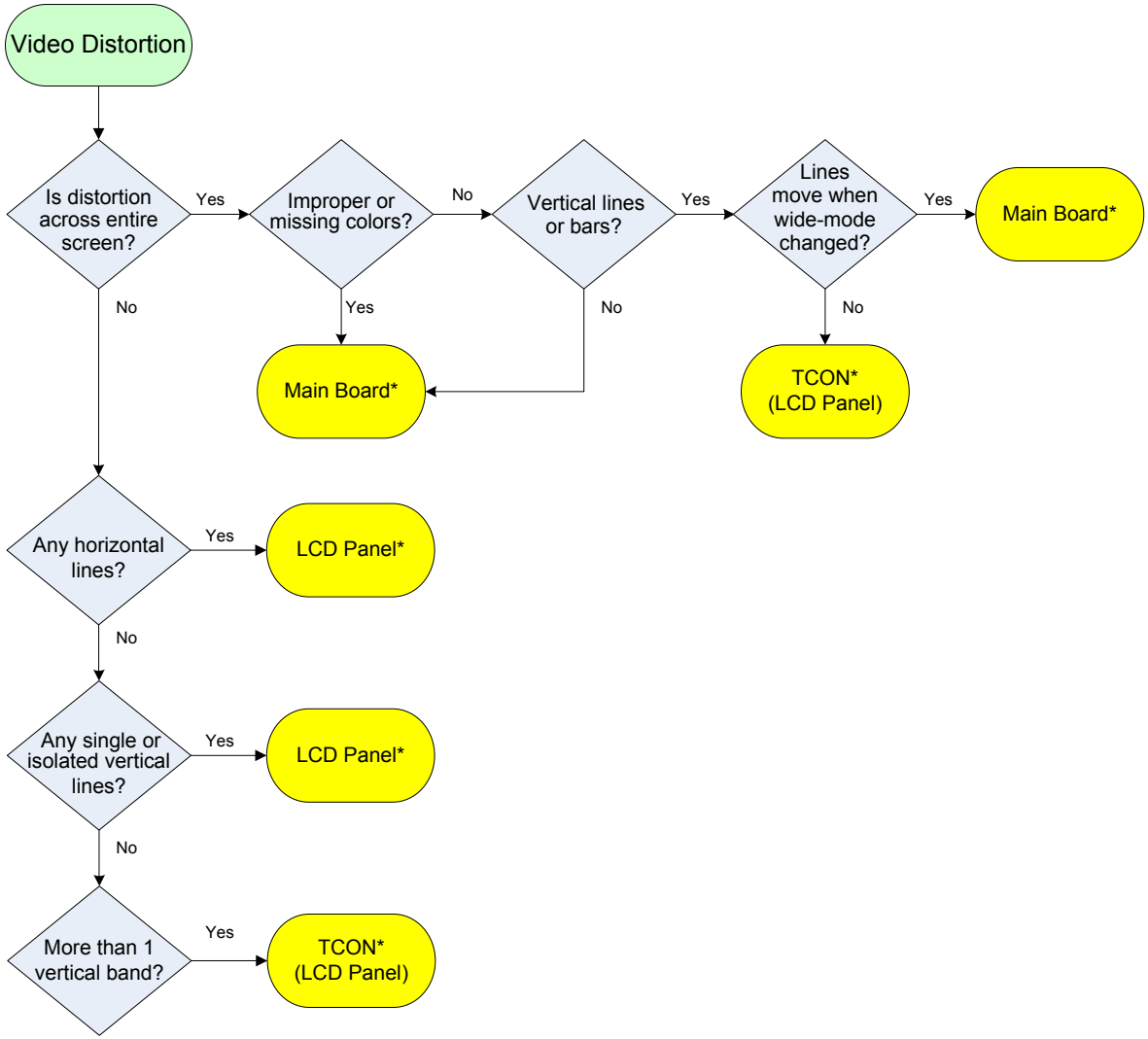
*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 20.

NO VIDEO FLOWCHART



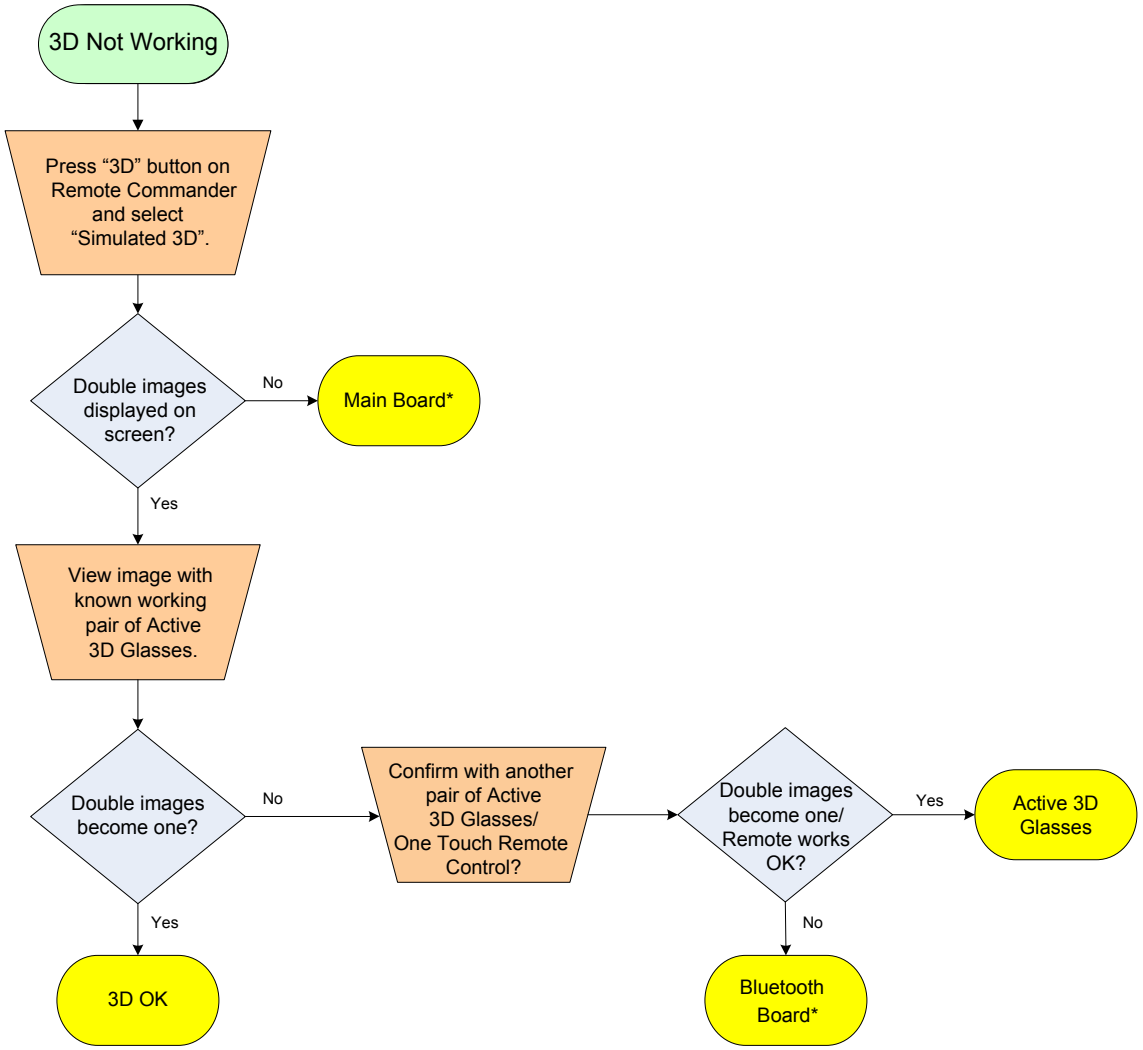
*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 20.

VIDEO DISTORTION FLOWCHART



*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 20.

NO 3D VIEWING



*For Part Number information, refer to “Section 4 - Exploded View/Part Number Information” on page 20.

SECTION 3 - REPAIR INFORMATION

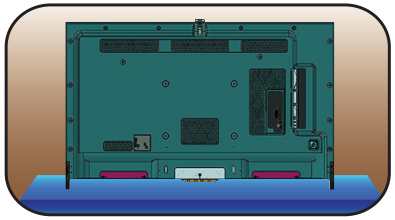
REPAIRING THE TV

If the latest Software does not correct the issue, complete the following:

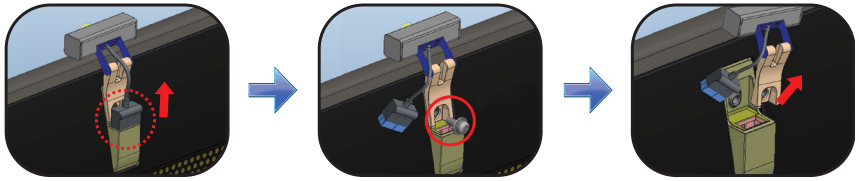
1. Verify the television has the symptom the customer indicated.
2. Replace part causing the symptom.
3. Install the latest version of Software (Required for ALL repairs).
4. Perform the required service adjustments and checks.
5. Verify the repair resolved the issue.

REMOVING THE CAMERA MODULE AND TABLE-TOP STAND

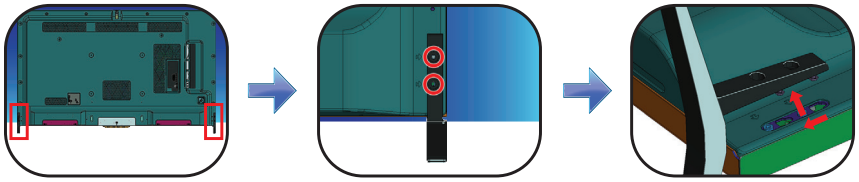
1. Place TV in a standing position on a flat surface.



1. Locate and remove 1 screw and disconnect 1 connector from the Camera Module to lift as shown and detach from TV.

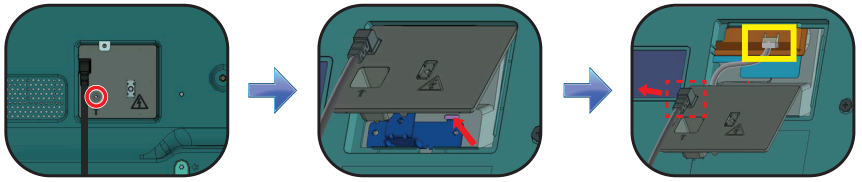


2. Place TV face down on a flat and soft surface.
   Locate and remove the screws as shown to detach the Right and Left Stand.

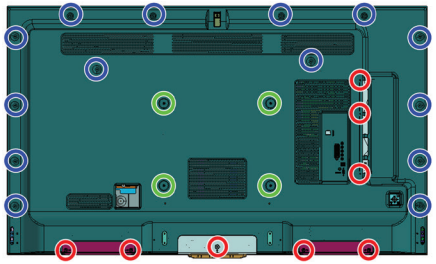


REMOVING THE REAR COVER

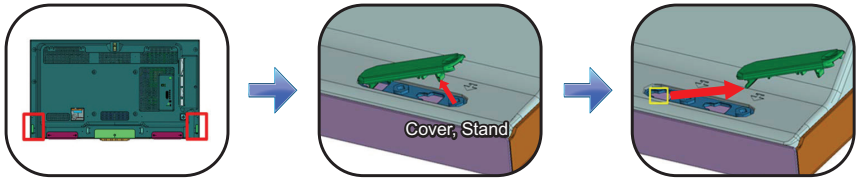
1. Remove 1 screw from the AC, Cover and lift to detach, then disconnect the connector and slide it left as shown.



2. Locate and remove all screws from the Rear Cover.



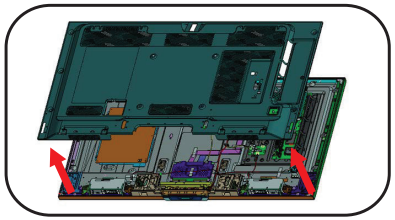
3. Locate the Cover, Stand and lift as shown to remove from Rear Cover.



4. Locate and remove 2 screws from Reflector, SP to lift and detach.

5. Remove 1 screw from the Cover, Under and lift as shown to release the clips and detach.

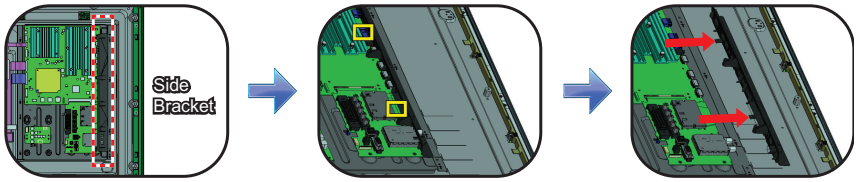
6. Lift the Rear Cover as shown to remove.



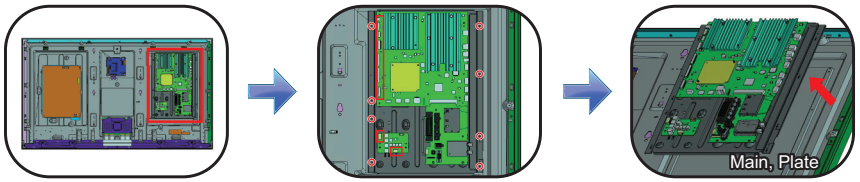
REPLACING THE MAIN BOARD AND TUNER BOARD

The Main Board and Tuner Board used in this model are available for repair. For Part Number information refer to Section 4 - Exploded View/Part Number Information on page 20.

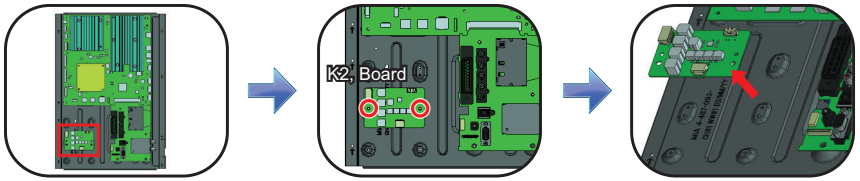
1. Slide the Side Bracket as shown to detach from the Main Board.



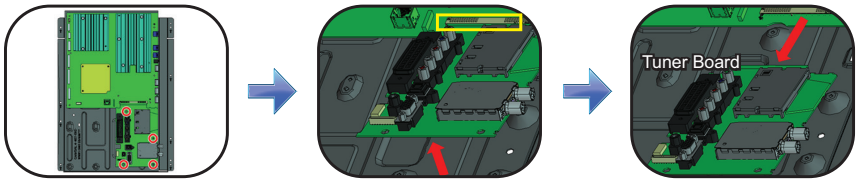
2. Locate and disconnect all connectors. Then remove all screws from the Main Board Plate to detach.



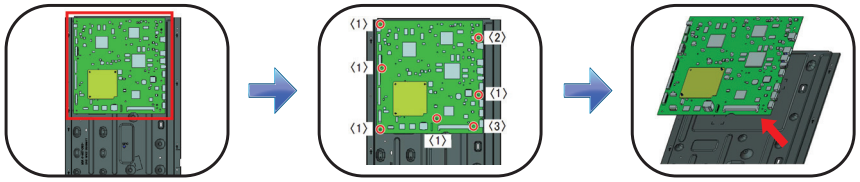
3. Locate the K2 Board and remove 2 screws, then lift as shown to detach.



4. Locate and remove 4 screws from the Tuner Board, release the clip and lift as shown to detach.



5. Locate and remove all screws from the Main Board, then lift as shown to detach.



6. Install the new Main Board, K2 Board and/or Tuner Board, screws and all connectors.
7. Update the Software.

   After ALL repairs UPDATE the SOFTWARE to the latest version. Instructions are included with the Software package on the Sony Authorized Service Portal website.

   a. Insert the USB device with the latest Software into the TV.

   b. Press POWER to turn on the TV.

   c. Wait until the Software update is complete and the TV turns OFF.

8. Access **Service Mode** by pressing the following buttons within 1 second of each other:

   DISPLAY → Channel 5 → Volume + → POWER

9. When the **DIGITAL** Menu appears, press 2 until **002 MODEL** category displays.
10. Press 1 until **001 DEST** item displays.

DIGITAL	SERVICE
002 MODEL	
001 DEST	ATSC_UC_BASE

CAUTION: If the incorrect Destination Data Value is selected, it may corrupt the Sofware requiring a Main Board replacement.

11. Select the correct destination of the TV, press 3 to increase or 6 to decrease the data value (Use the table below for reference).

Model Name	Destination	Data Value
XBR-70X850B	US/CND	ATSC_UC_BASE

12. Press MUTING then 0 to save the changes.

DIGITAL	SERVICE
002 MODEL	
001 DEST	ATSC_UC_BASE
WRITE	

13. Press 1 until **002 MODELNAME** displays.

DIGITAL	SERVICE
002 MODEL	
002 MODELNAME	_____

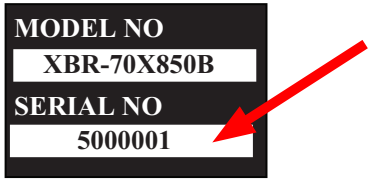
14. Press 3 until the model displayed matches the model of the TV.

    CAUTION: The Model Name can only be selected once. Be sure to verify the information is correct before saving the changes.

15. Press MUTING then 0 to save the changes.

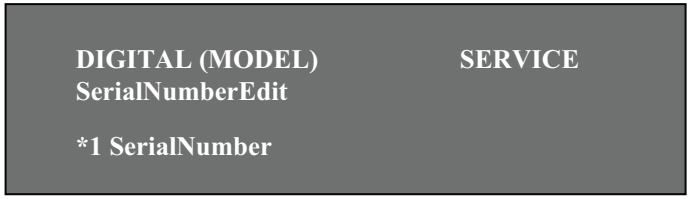
DIGITAL	SERVICE
002 MODEL	
002 MODELNAME	XBR-70X850B
WRITE	

16. Locate the Serial Number for the TV on the side of the Rear Cover.

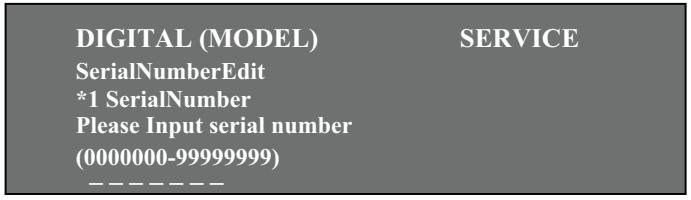


17. Press 1 until **003 SERIAL** item displays.

18. Press 0 to display the **Serial Number Edit** option.



19. Press ✣ to display the **Serial Number** input screen.

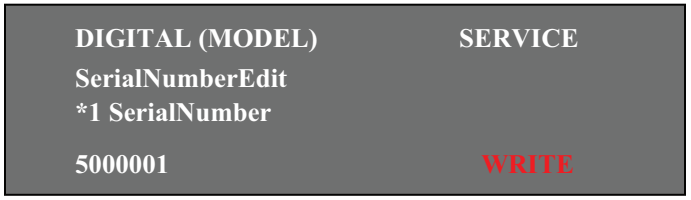


CAUTION: The Serial Number can only be selected once. Be sure to verify the information is correct before saving the changes.

20. Enter the Serial Number of the TV.

NOTE: If the incorrect Serial Number is entered, press RETURN to go back to the Serial Number input screen and re-enter the correct number.

21. Press ✣ to save the Serial Number.



22. Press 1 until option **005 VAR_TYPE** displays.

23. Press 3 until option **STD** displays.

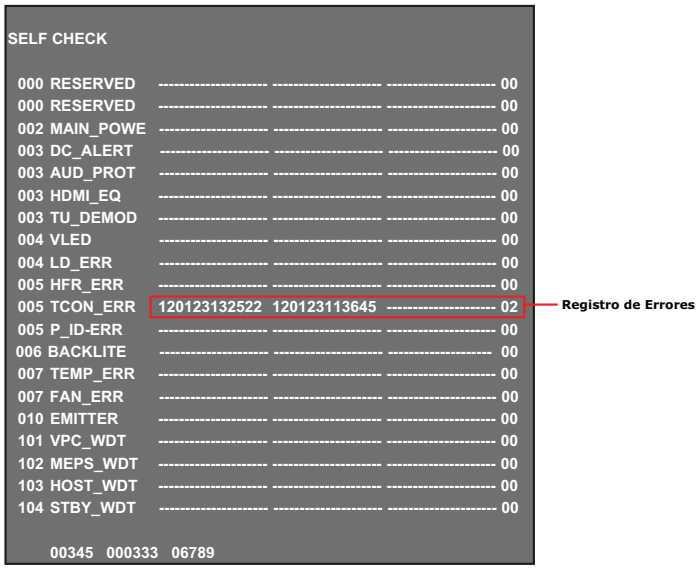
24. Press MUTE then 0 to save the changes.

7. Clear the **Self Check** screen.

   a. Press POWER to exit **Service Mode.**

   b. Press the following buttons on the ***Remote Commander*** within 1 second of each other:

   DISPLAY → Channel 5 → Volume − → POWER



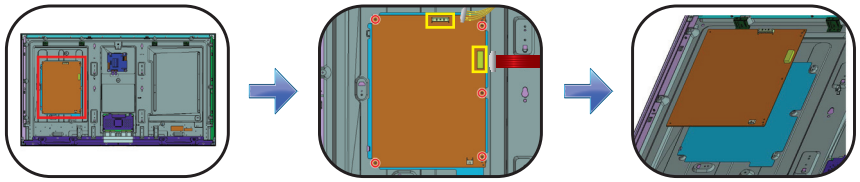
   c. To clear the error history and error count press 8 → 0.

   d. Press POWER to exit the **Self Check** screen.

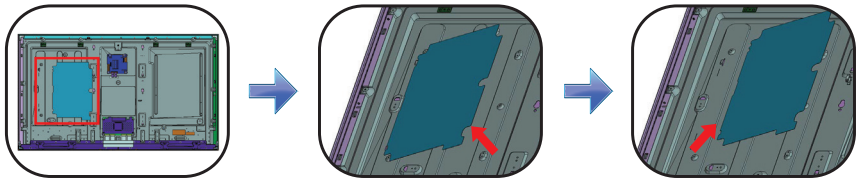
8. Cycle AC Power (Unplug and plug AC Cord from the outlet).

REPLACING THE POWER SUPPLY BOARD

1. Locate the Power Supply Board, disconnect all connectors and remove screws, then lift as shown to detach.



2. Locate the Sheet Insulation and lift as shown to detach.



3. Install the new Power Supply Board, Sheet Insulation, screws and connectors.

4. Update the Software.

   After ALL repairs UPDATE the SOFTWARE to the latest version. Instructions are included with the Software package on the Sony Authorized Service Portal website.

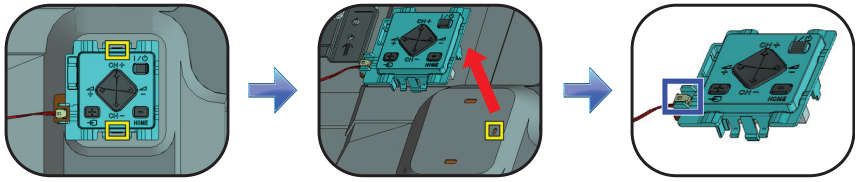
   a. Insert the USB device with the latest Software into the TV.

   b. Press POWER to turn on the TV.

   c. Wait until the Software update is complete and the TV turns OFF.

REPLACING THE SWITCH UNIT

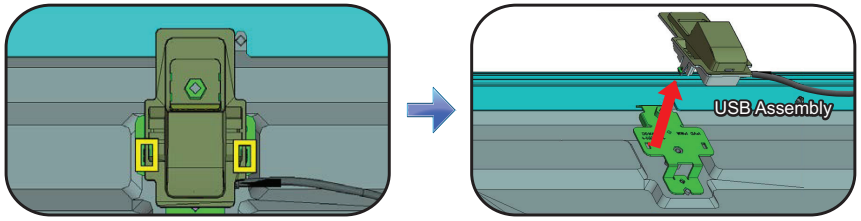
1. Disconnect 1 connector and release the clips to lift and detach.



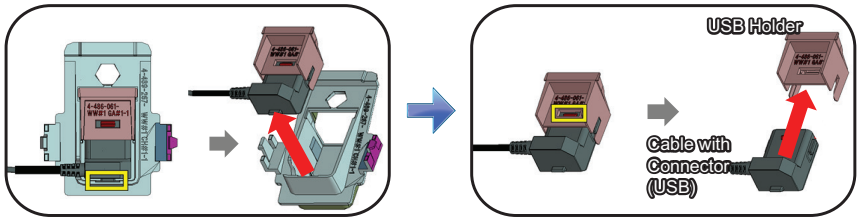
2. Install the new Switch Unit and the connector.

REMOVING THE USB ASSEMBLY

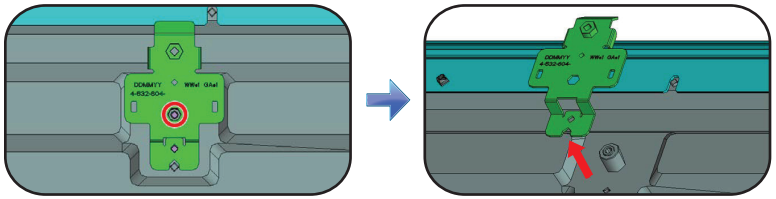
1. Locate the USB Assembly, release the clips and lift as shown to detach.



2. Release the USB connector from the Bracket, Top.
   Then lift USB Holder to detach from Cable with Connector (USB) as shown.

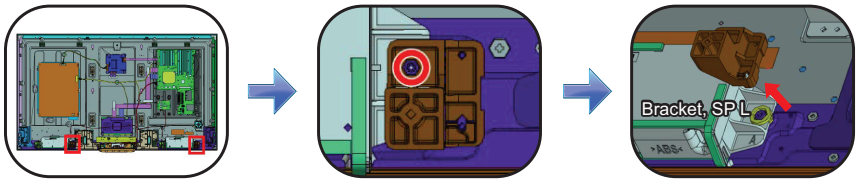


3. Remove 1 screw from Base, Bracket Top and lift as shown to detach.

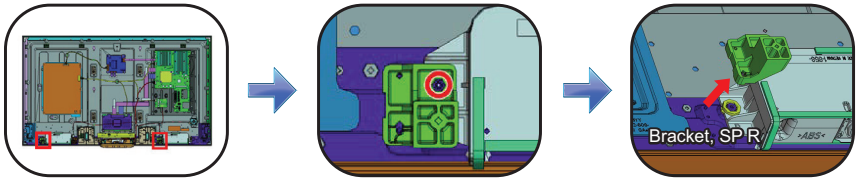


REMOVING THE SPEAKERS

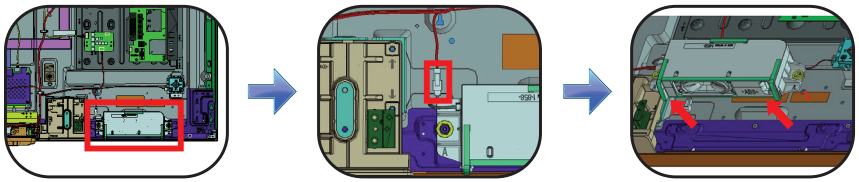
1. Locate the Brackets, SP L, remove 1 screw and lift to detach.



2. Locate the Brackets, SP R, remove 1 screw and lift to detach.



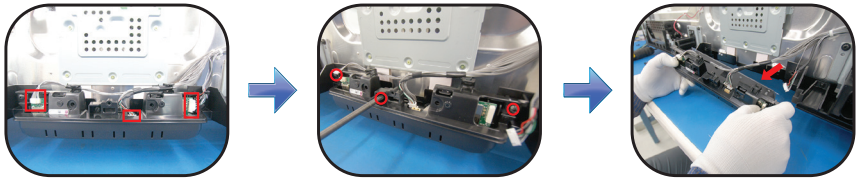
3. Locate the Speaker, disconnect connector and lift as shown to detach.



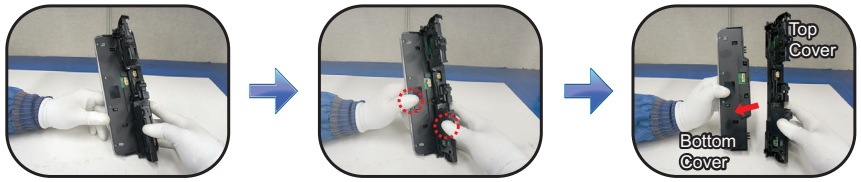
4. Refer to these instructions for removing the opposite speaker.

REMOVING THE SMART CORE BLOCK

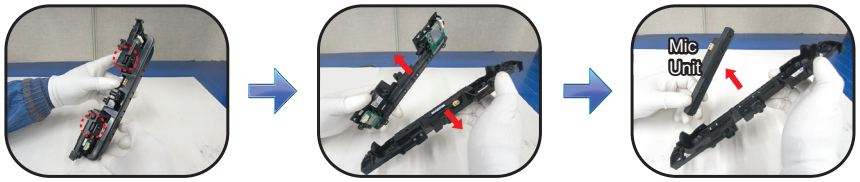
1. Locate and disconnect all connectors, then remove the screws and twist the Smart Core downwards as shown to detach.



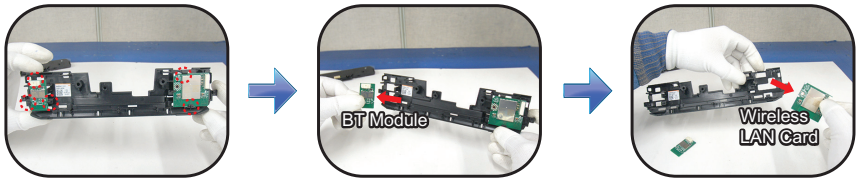
2. Press the clips as shown to detach the Top Cover from Bottom Cover.



3. Release the hooks to detach the Back Cover, then lift the Mic Unit to remove.

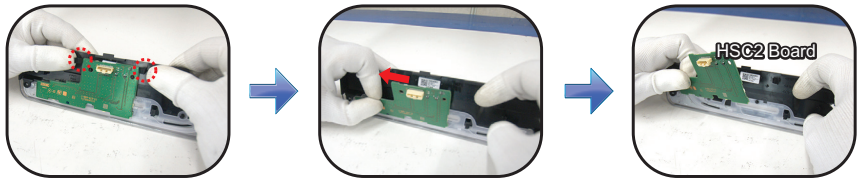


4. Locate and unclamp the clips from BT Module and Wireless LAN Card, then slide as shown to detach.



5. Release 6 hooks on the sequence shown by pulling apart the Bottom Cover to access the HSC2 Board.

6. Unclamp 2 side clips from the HSC2 Board and lift as shown to detach.



SECTION 4 - EXPLODED VIEW/PART NUMBER INFORMATION

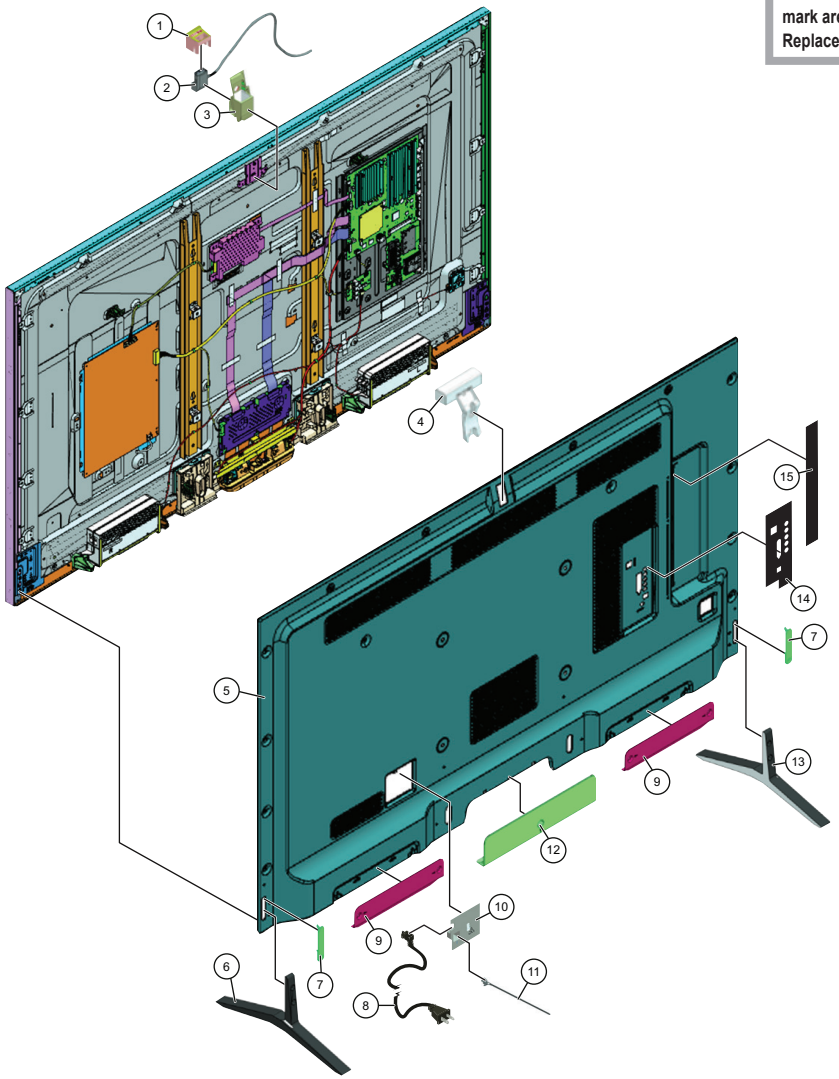
XBR-70X850B

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

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

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)

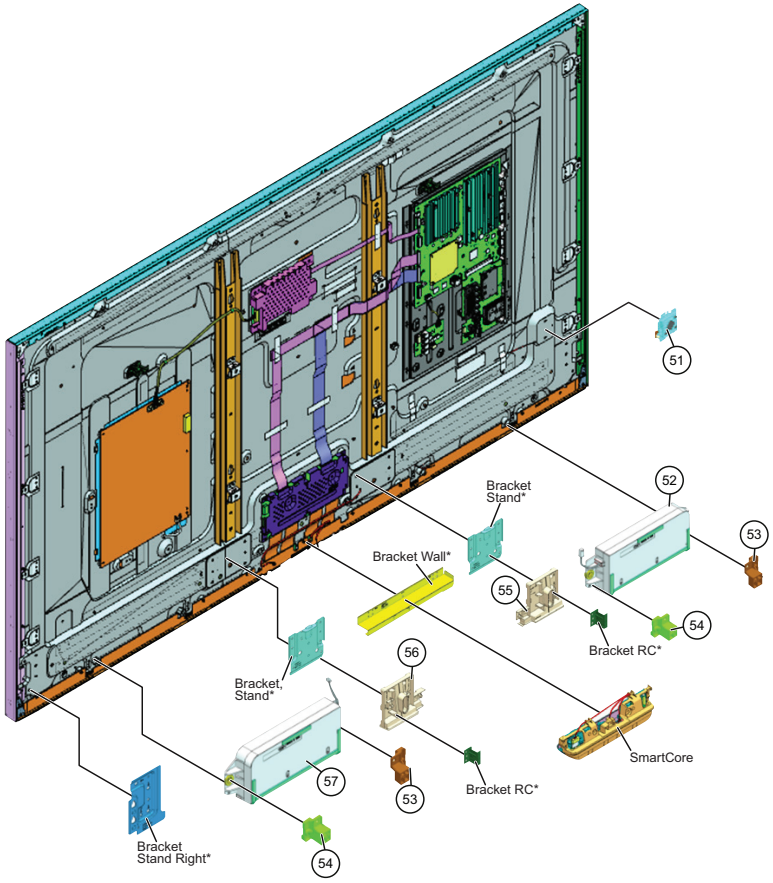


REF. NO.	PART NO.	DESCRIPTION
1	4-486-061-02	USB HOLDER
2	1-848-165-11	USB CABLE W/CONNECTOR
3	4-489-267-01	BRACKET, TOP
4	1-458-820-11	CAMERA MODULE
5	4-535-584-01	REAR COVER
6	4-536-416-01	STAND RIGHT
7	4-532-606-01	COVER, STAND HOLE
⚠ 8	1-839-679-21	POWER SUPPLY CORD
9	4-535-594-01	REFLECTOR SP
10	4-480-120-01	AC COVER
11	4-262-708-04	CLAMPER, CABLE
12	4-532-602-01	COVER, UNDER
13	4-536-414-01	STAND LEFT
14	4-527-285-01	LABEL, REAR TERMINAL ORDER THIS PART WHEN REPLACING THE REAR COVER.
15	4-540-325-01	LABEL, SIDE TERMINAL ORDER THIS PART WHEN REPLACING THE REAR COVER.

SECTION 4 - EXPLODED VIEW/PART NUMBER INFORMATION

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

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)



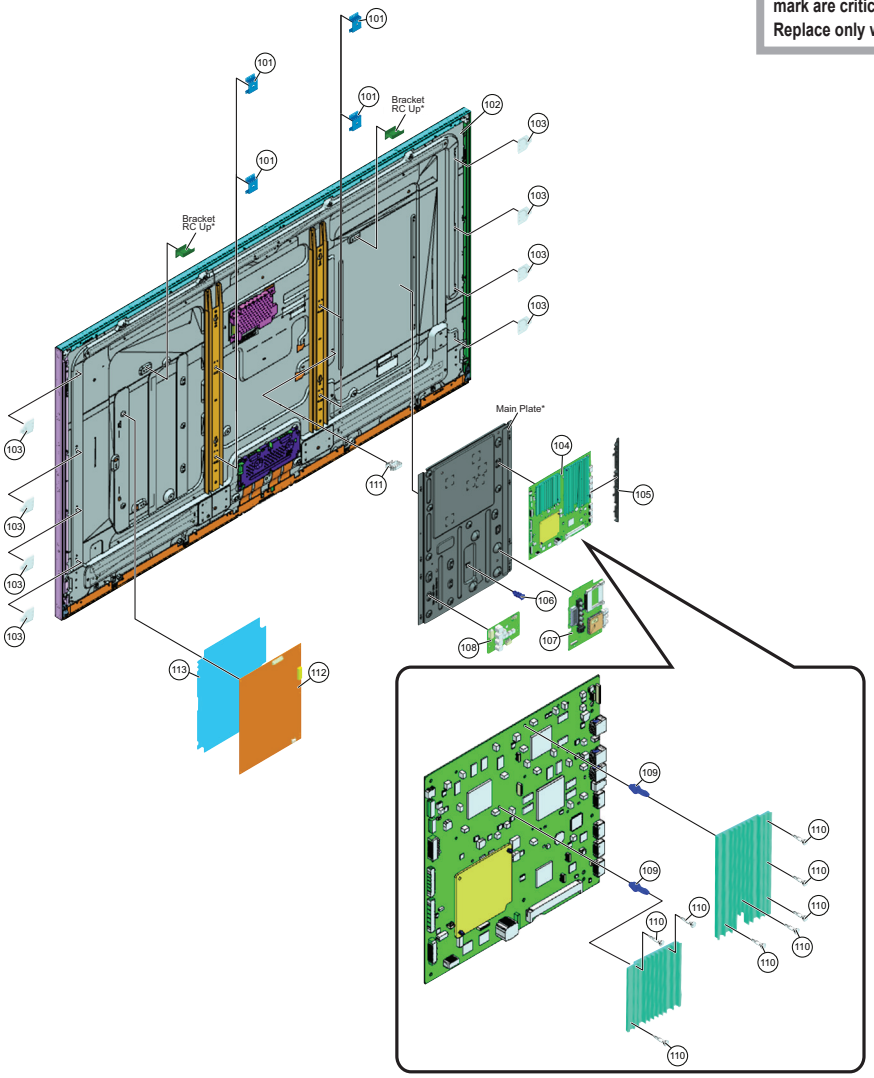
REF. NO.	PART NO.	DESCRIPTION
51	1-798-510-11	SWITCH UNIT
52	1-859-007-11	SPEAKER BOX LEFT
53	4-536-835-01	BRACKET, SP LEFT
54	4-536-836-01	BRACKET, SP RIGHT
55	4-535-900-01	HOLDER, NECK LEFT REINSTALL THIS PART WHEN REPLACING THE LCD PANEL.
56	4-535-901-01	HOLDER, NECK RIGHT REINSTALL THIS PART WHEN REPLACING THE LCD PANEL.
57	1-859-007-21	SPEAKER BOX RIGHT

*Reinstall Bracket, RC when replacing the LCD Panel.
*Reinstall Bracket, Stand Right and Left when replacing the LCD Panel.
*Reinstall Bracket, Wall when replacing the LCD Panel.

SECTION 4 - EXPLODED VIEW/PART NUMBER INFORMATION

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

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)



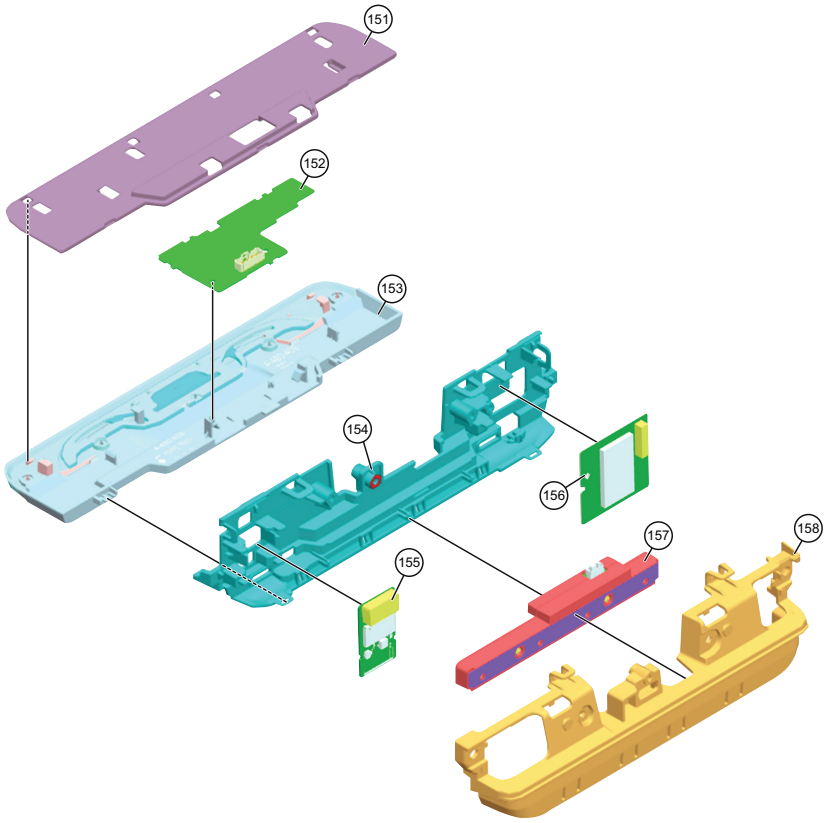
REF. NO.	PART NO.	DESCRIPTION
101	4-486-590-01	BRACKET, VESA
102	NA	LCD PANEL MODULE FOR LCD PANEL AND TCON BOARD PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL.
103	4-536-557-01	BRACKET RC SIDE
🔒 104	A-2057-841-A	BAXF BOARD, COMPLETE AFTER REPLACING THE MAIN BOARD, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION.
105	4-480-159-52	BRACKET SIDE REINSTALL THIS PART WHEN REPLACING THE LCD PANEL.
106	4-256-454-02	SPACER (G A)
107	A-1989-740-B	TUS BOARD, COMPLETE AFTER REPLACING THE TUNER BOARD, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION.
108	A-2033-108-A	K2 BOARD, COMPLETE
109	4-447-962-01	HOLDER (HS)
110	4-487-101-01	HOLDER, HS WS
111	2-650-770-31	SLIDE, CLAMP
112	1-474-578-11	G7B BOARD, COMPLETE
113	4-487-094-11	SHEET, INSULATION (G7) ORDER THIS PART WHEN REPLACING THE LCD PANEL.

*Reinstall Brackets, RC Up,when replacing the LCD Panel.
*Reinstall Main, Plate when replacing the LCD Panel.

SMART CORE BLOCK

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

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)

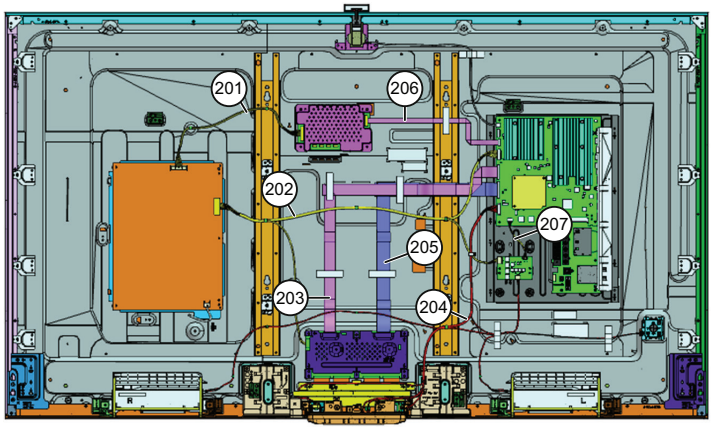


REF. NO.	PART NO.	DESCRIPTION
151	4-474-892-01	TOP COVER
152	A-2057-722-A	HSC2, BOARD MOUNTED
153	4-474-888-02	BOTTOM CASE
154	4-480-411-01	FRONT COVER
155	1-492-760-12	BT MODULE
156	1-458-723-11	WIRELESS LAN CARD
157	1-458-793-11	MIC UNIT
158	4-480-412-01	BACK COVER

CONNECTORS

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

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)



REF. NO.	PART NO.	DESCRIPTION
201	1-910-109-43	CONNECTOR ASSEMBLY 14P
202	1-910-109-41	CONNECTOR ASSEMBLY 28P
203	1-848-370-11	(LVDS) FLEXIBLE FLAT CABLE 41P
204	1-910-109-42	HARNESS ASSEMBLY (MAIN)
205	1-848-371-11	(LVDS) FLEXIBLE FLAT CABLE 51P
206	1-910-109-44	FLEXIBLE FLAT CABLE 20P
207	1-910-109-52	CONNECTOR ASSEMBLY 20P

SCREWS

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

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. (See Appendix A)

P/N		DESCRIPTION	XBR-70X850B
	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	Cover Under (1), Reflector SP (4), Rear Cover (3), Smart Core (2), Bracket RC (2), Back Cover (SC) (1)
	2-990-421-41	SCREW (+PSW) (M3X6)	Bracket Wall (2), K Board (2), Tuner Board (4), Main Board (7)
	4-256-393-11	SCREW, +PSW M3X6 W12	Rear Cover (14)
	4-256-393-11	SCREW, +PSW M3X6 W12	Base Bracket Top (2), Bracket SP (4), Main Plate (8), Bracket RC (8), Power Suply Board (5)
NA	2-580-607-01	SCREW, +PSW M5X12	Stand to TV (4)
	4-159-298-01	SCREW, +PSW M4X10	Camera Module (1), AC Cover (1)
	4-268-126-02	SCREW, ORNAMENTAL M6X12	Rear Cover (4)
	2-580-600-11	SCREW, +PSW M4X8	Holder Neck (8), Bracket Stand Left (3), Bracket Stand Right (3), Bracket Vesa (4)

SECTION 5 - ACCESSORIES/PART NUMBER INFORMATION

ACCESSORIES AND PACKAGING

PART NO.	DESCRIPTION
2-580-607-01	SCREW, +PSW M5X12 (SCREWS TO ATTACH TABLE TOP STAND TO LCD TV) For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV. CAUTION: These screws cannot be used to secure the TV to the Wall Mount Brackets.
4-448-554-13	MANUAL, INSTRUCTION
1-458-628-41	ACTIVE 3D GLASSES (SINGLE KIT)
4-533-569-12	MANUAL, INSTRUCTION (FOR 3D GLASSES)
1-845-283-11	IR BLASTER

MISCELLANEOUS

PART NO.	DESCRIPTION
4-539-120-01	AL TAPE C (3L HWI)
4-539-118-01	AL TAPE L (3L HWI)
4-539-119-01	AL TAPE R (3L HWI)
4-463-174-01	BADGE, XBR LOGO
4-460-760-01	CASE, BATTERY (3D GLASSES)
4-460-761-01	PAD, NOSE (3D GLASSES)
4-538-934-01	CUSHION 1825A
3-299-071-08	FLYER, SAFETY
4-452-919-01	GASKET (SC)
4-487-105-01	SHEET, THERMAL (AYU2, A) (FOR BAXF)
4-457-451-01	SHEET, THERMAL (BAF) (FOR MAIN PLATE)
3-674-673-22	STOPPER (A)
7-600-031-97	TAPE (3M 1350FB-1) 15MMX66M BLK
7-600-031-96	TAPE (3M 1350FW-1) 15MMX66M WHT
3-876-036-71	UNI-LABEL, BLANK

OPTIONAL ACCESSORIES

PART NO.	DESCRIPTION
4-443-737-02	SUPPORT BELT KIT

REMOTE COMMANDER

PART NO.	DESCRIPTION
1-492-758-11	REMOTE COMMANDER (RMF-YD003)
1-492-766-11	REMOTE COMMANDER D103 (RM-YD102)

APPENDIX A: ENCRYPTION KEY COMPONENTS

Encryption key components developed by Sony Corporation contain confidential information and shall be handled under the non-disclosure obligations provided in the applicable agreement with Sony Corporation (and/or its subsidiary).

As part of this agreement specific instructions must be adhered to whenever a Circuit Board containing encryption key components is repaired and/or replaced pursuant to the following:

1. In the service manual the Circuit Board(s) containing encryption key components shall be identified with a red outline and a .
2. Only repair boards or components listed in the service manual shall be utilized for replacement and/or repair.
3. Disassembly, decryption or reverse-engineering component(s) is strictly prohibited.
4. Any board in which the Servicer replaces an encryption key component must be placed back into the set it orignally came from and the replaced defective component MUST BE DESTROYED. Boards cannot be swapped.
5. If a Circuit Board identified with a red outline and a in the service manual is deemed to be defective:
   a. and if a core charge is imposed and is covered under the product warranty, the defective un-repaired or modified board MUST BE RETURNED to Sony.
   b. and if the core charge is NOT covered under the product warranty, the defective un-repaired or modified board MUST BE DESTROYED.
6. If a unit is destroyed (such as field scrap), the Circuit Board identified with a red outline and a in the service manual MUST BE DESTROYED.

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Sony Corporation
Sony LCSC
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