

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

REPAIR MANUAL

RB2G Chassis

Segment: HM



KDI	L-48	W5	90B
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MODEL	COMMANDER	DESTINATION
KDL-40W590B	RM-YD103	US/CND
KDL-40W600B	RM-YD103	US/CND
KDL-48W590B	RM-YD103	US/CND
KDL-48W600B	RM-YD103	US/CND

version	Date	Subject
1.0	02/25/2014	Original Manual Release Date.
2.0	07/01/2014	Updated Adjustments Procedure on Section 3 - Repair Information. Pages 12 -16 replaced.



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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 \triangle 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.

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 chássis 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 \triangle 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.

CAUTIONS AND WARNINGS

SAFETY CHECK-OUT

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

- 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.

 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)

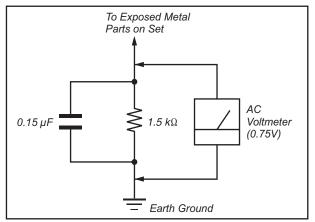


Figure A. Use an AC voltmeter to check AC leakage.

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)

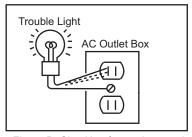


Figure B. Checking for earth ground.

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	8 W + 8 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	YP sPs (Component Video): 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	Video: 1080p (30, 60 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p, 480i, PC Formats 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 2 only)
MHL (Common with HDMI IN 1)	Video: 1080p (30 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p, 480i Audio: 5.1 channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital
⊖ AUDIO OUT/ Ω	Audio output (stereo mini jack) Headphone jack (supports Subwoofer out)
G- DIGITAL AUDIO OUT (OPTICAL)	Digital optical jack (Two channel linear PCM, Dolby Digital)
몹 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
⊝- © -⊕ DC IN 19.5 V	AC adapter input (DC 19.5 V)
Others	
Optional accessories	Camera and Microphone Unit: CMU-BR200/CMU-BR100 Wireless Subwoofer: SWF-BR100 MHL Cable: DLC-MB10/DLC-MB20/DLC-MC20

Mod	lel name	KDL-48W600B/48W590B	KDL-40W600B/40W590B
Power and	others		
Power require	ment	19.5 V DC with Rating: Input 110-240 V AC, 50/60 H	
Power	in use	75 \	W
consumption	in standby	Less than 0.4 W with 120 V AC and	d less than 0.5 W with 240 V AC
Screen size * (inches measu	red diagonally)	47.6 inches (48 class)	40 inches
Display resolu	tion	1,920 dots (horizontal) × 1	,080 lines (vertical)
Dimensions*	with stand (mm)	1,086 × 675 × 181	926 × 584 × 162
	(inches)	42 ⁷ / ₈ × 26 ⁵ / ₈ × 7 ¹ / ₄	$36^{1}/_{2} \times 23 \times 6^{1}/_{2}$
	without stand (mm)	1,086 × 646 × 90	926 × 556 × 89
	(inches)	42 ⁷ / ₈ × 25 ¹ / ₂ × 3 ⁵ / ₈	$36^{-1}/_2 \times 22 \times 3^{-5}/_8$
	wall-mount hole pattern (mm)	300 × 200	300 × 300
	wall-mount screw size (mm)	M6 (8 -1	0 mm)
Mass*	with stand (kg)/(lb)	10.3 / 22.7	7.9 / 17.5
	without stand (kg)/(lb)	9.9 / 21.9	7.4 / 16.3
Operating tem	perature	32 °F – 104 °F (0 °C − 40 °C)

- * Screen size, dimensions and mass are approximate values.
- $\bullet \ \ Optional\ accessories\ availability\ depends\ on\ countries/region/TV\ model/stock.$
- Design and specifications are subject to change without notice.
- This TV set incorporates MHL 2.

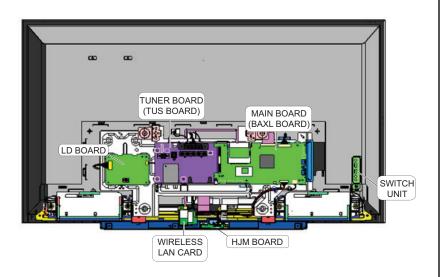
CHECKING THE ACCESSORIES

- Remote Control*
- Size AAA batteries (2)
- AC Power Cord (1)
- AC Adapter (1)
- Fixing Screws for Table-Top Stand (M5 × 20) (2)
- Wall-mount Adapter accessories
- Operating Instructions and other documents
- * Refer to the model name printed on the remote control.

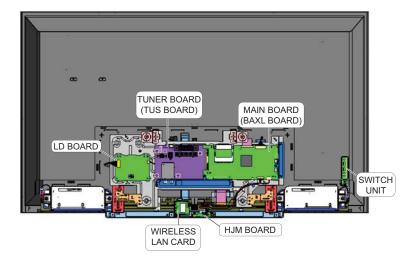
SECTION 1 - SPECIFICATIONS AND LAYOUTS

BOARD LAYOUT

KDL-40W590B/48W600B



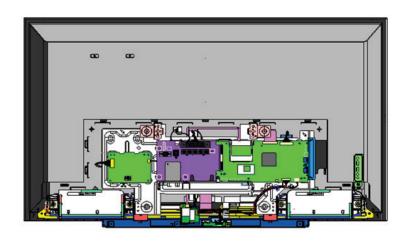
KDL-48W590B/48W600B



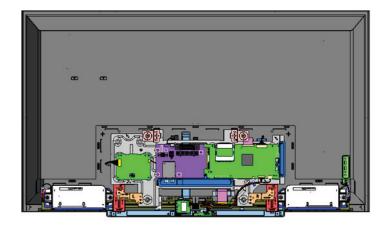
SECTION 1 - SPECIFICATIONS AND LAYOUTS

WIRE DRESSING

KDL-40W590B/40W600B



KDL-48W590B/48W600B





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.
- Determine the replacement part required.

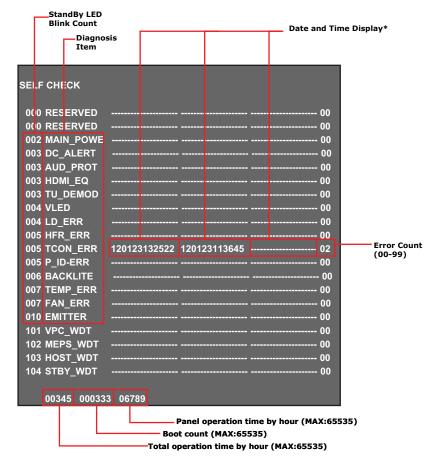
VIEWING THE SELF CHECK DIAGNOSIS HISTORY

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



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.

Red Dot: (Primary) Most likely defective part.

2. Select that symptom from the chart.

Blue Triangle: (Secondary) Possible defective part.

- 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.

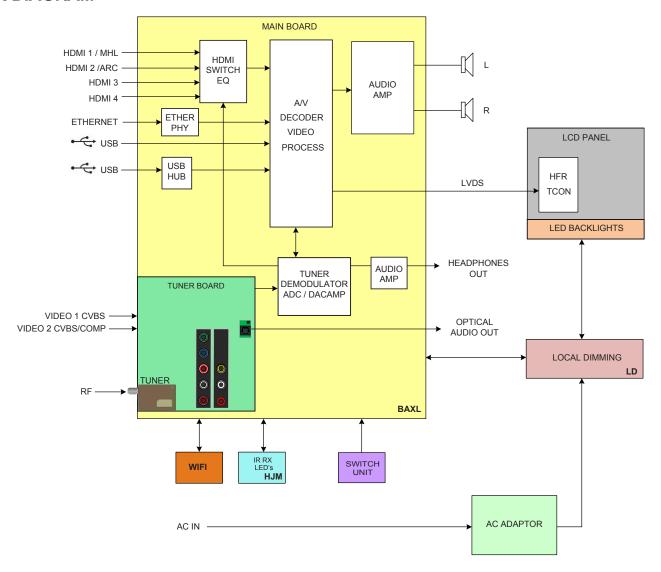
		ymptoms - Shutdown. Power LED blinking red diagnostics sequences				No Power		Video		Remote	Net	work	Audio	Smart Core				
Board Reference	2X	3X	4X	5X	6X	7X	8X	9X	10X	No White Power LED	Steady lines or dots	No Video One of Inputs	No Video All Inputs	No Remote	Wireless can't connect	Bluetooth can't connect	No Audio	No LED
MAIN BOARD		•				•	•			A		•	•		A	A	•	A
TUNER BOARD								•				•	•					
LCD PANEL				•	•						•		A					
TCON				•									A					
LVDS FFC													A					
H BOARD																	•	•
SPEAKER																	•	
LD BOARD			•										A					
BT BOARD																•		
WIFI							•								•			
Problem	POWER	AUDIO/ POWER	LD	TCON	BACK- LIGHT	TEMP	SOFT- WARE		EMIT- TER									

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

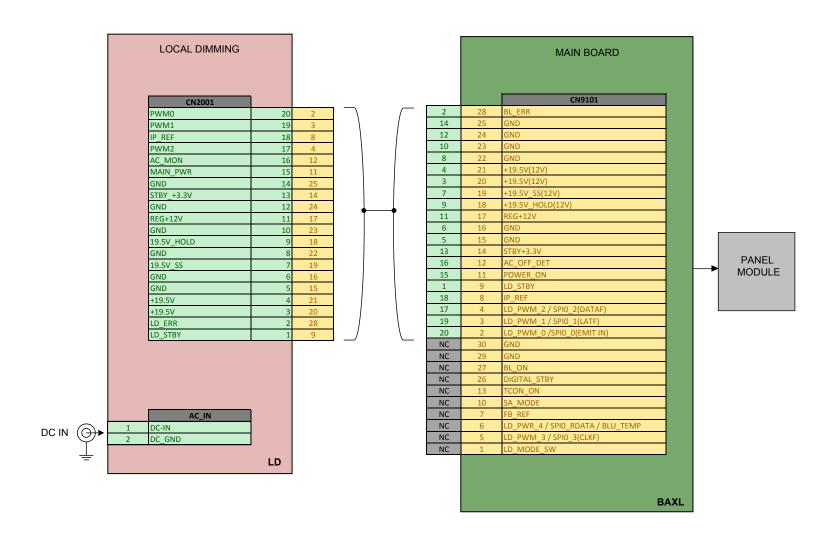
To access the most recent version of the Triage documents for the models listed in this manual, login into the Sony Authorized Service Portal at http://www.sony.com/asp.

FLOWCHARTS AND DIAGRAMS

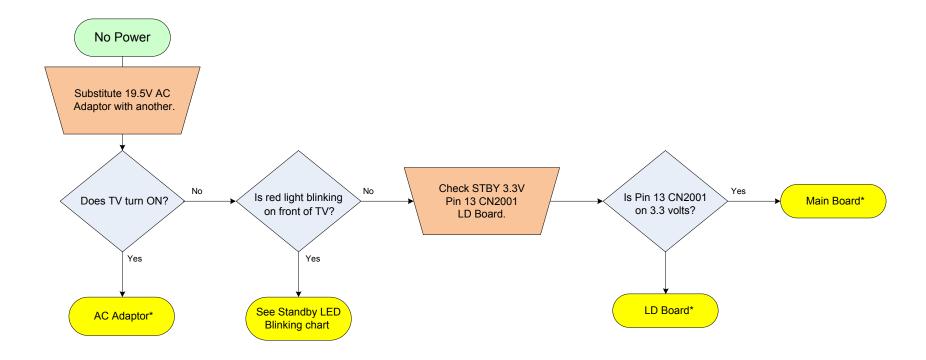
OVERALL BLOCK DIAGRAM



POWER AND CONTROL BLOCK DIAGRAM

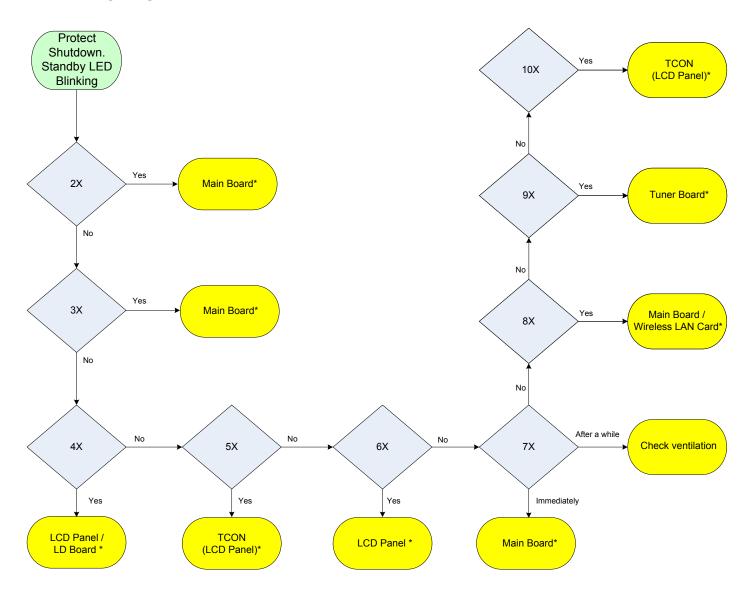


NO POWER FLOWCHART



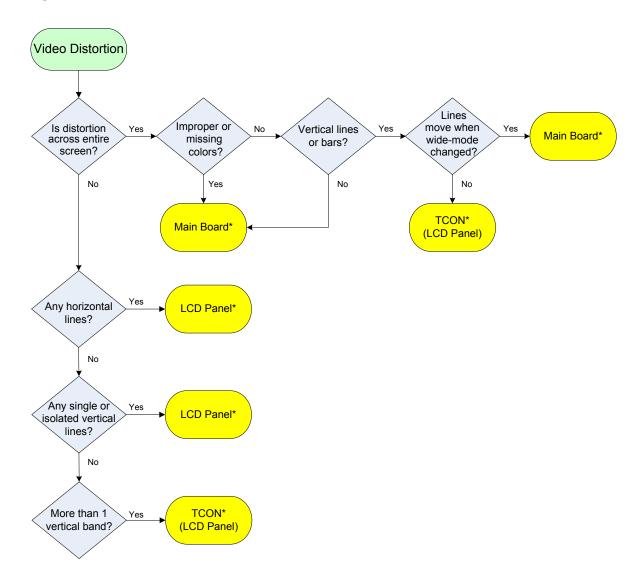
*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 17.

STANDBY LED BLINKING FLOWCHART



*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 17.

VIDEO DISTORTION FLOWCHART



*For Part Number information, refer to "Section 4 - Exploded View/Part Number Information" on page 17.

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 TABLE TOP STAND

1. Place TV face down on a soft and flat surface.

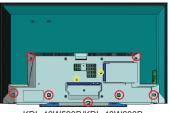


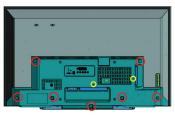
2. Remove 2 screws from Stand Shaft and carefully detach as shown.



REMOVING THE LOWER COVER

1. Locate and remove all screws from Lower Cover.





KDL-40W590B/KDL-40W600B

KDL-48W590B/KDL-48W600B

2. Firmly detach from areas shown to remove Lower Cover from the TV.



REPLACING THE MAIN BOARD / TUNER BOARD

The Main Board used in these models is available for repair. For Part Number information refer to Section 4 - Exploded View/Part Number Information on page 17.

1. Disconnect Harness from the Main Board.



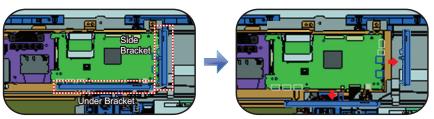
2. Locate and disconnect all remaining connectors.



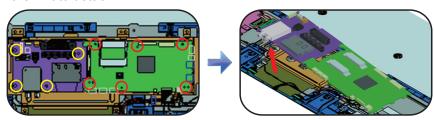
3. Press down the 2 locking clips and pull LVDS cable to release.



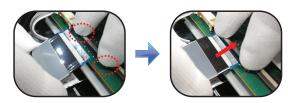
4. Slide brackets to detach from Main Board.



5. Locate and remove screws from the Tuner Board and Main Board, then lift to detach.



- 6. Install the new Main Board and/or Tuner Board and screws.
- 7. Reconnect the LVDS Cable and all other connectors.



8. Update the Software.

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

- a. Insert the USB device with the latest Software into one of the TVs' USB ports.
- b. Connect TV to AC power.
- c. Wait at least 20 seconds.
- d. Press the Power button on the TV to turn it ON.
- e. Wait until the Software update is completed.

9. To access **Service Mode**, turn TV ON and OFF again then press the following buttons within 1 second of each other:



10. When the **DIGITAL** Menu appears, press 2 until **002 MODEL** category displays.



11. Press 1 until 002 DEST item displays.



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

12. Press 3 until the correct destination of the TV displays. (Use the table below for reference).

Model Name	Destination	Data Value
KDL-40W590B	US/CND	ATSC_UC_BASE
KDL-48W600B	US/CND	ATSC_UC_BASE
KDL-40W590B	US/CND	ATSC_UC_BASE
KDL-48W600B	US/CND	ATSC UC BASE

13. Press MUTE then 0 to save the changes.



14. Press 1 until 003 MODELNAME displays.



- 15. 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.
- 16. Press Mute then 0 to save the changes.



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



18. Press until **004 SERIAL** item displays.

DIGITAL SERVICE
002 MODEL
004 SERIAL

19. Press 10 to display the **Serial Number Edit** option.

DIGITAL (MODEL) SERVICE SerialNumberEdit *1 SerialNumber

20. Press to display the **Serial Number** input screen.

DIGITAL (MODEL) SERVICE
SerialNumberEdit
*1 SerialNumber
Please Input serial number
(0000000-99999999)

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

21. Enter the Serial Number of the TV.

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

22. Press to save the Serial Number.

DIGITAL (MODEL) SERVICE
SerialNumberEdit
*1 SerialNumber

5000001 WRITE

23. Press 1 until 006 VAR_TYPE item displays.

DIGITAL SERVICE
002 MODEL
006 VAR_TYPE

24. Press 3 until **UC** option displays.

DIGITAL SERVICE
002 MODEL
006 VAR_TYPE UC

25. Press MUTE then 0 to save the changes.

DIGITAL SERVICE
002 MODEL
006 VAR_TYPE UC
WRITE

- 26. Cycle AC Power (Unplug and plug AC Cord from the outlet).
- 27. Access **Service Mode**, by pressing the following buttons within 1 second of each other:



28. When the **DIGITAL** Menu appears, press 2 until **002 MODEL** category displays.

DIGITAL SERVICE 002 MODEL 000 BOARD CHECK

29. Press 0 to select the 000 BOARD CHECK item.

DIGITAL (MODEL)

SERVICE

Board Check

- 1. Replace MAIN BOARD (and TUNER BOARD)
- 2. Replace TUNER BOARD only

When replacing the Main Board and/or Tuner Board:

30. Press 1 to verify the Main Board replacement results.

NOTE: Either one of the following messages indicates a correct process.

DIGITAL (MODEL)

SERVICE

Board Check OK

TUNER BOARD OPTION: STANDARD

DIGITAL (MODEL) SERVICE

Board Check
OK
TUNER BOARD OPTION: PCA / HTL
TUNER BOARD OPTION is changed correctly

CAUTION: If the Main Board is a mismatch to the Tuner Board, a "NG: WRONG COMBINATION OF MAIN BOARD AND TUNER BOARD" message will display.

31. Press (RETURN) on the Remote Commander.

When replacing the Tuner Board only:

32. Press 2 to verify the Tuner Board replacement results.

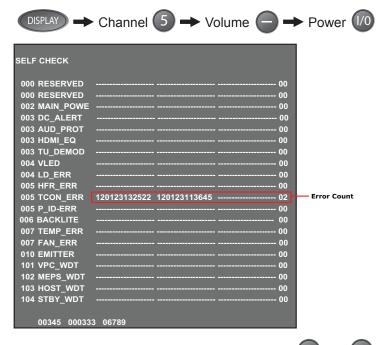
DIGITAL (MODEL) SERVICE

Board Check
OK
TUNER BOARD OPTION: STANDARD

CAUTION: If the Tuner Board is a mismatch to the Main Board, a "NG: DIFFERENT KIND OF TUNER BOARD HAS BEEN CONNECTED" message will display.

- 33. Press RETURN on the Remote Commander.
- 34. Turn the TV OFF.
- 35. Press
 on the Remote Commander and Power button on TV to set unit to Shipping Condition.

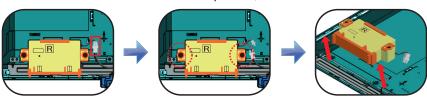
- 36. Clear the Self Check screen.
 - a. Press POWER to exit Service Mode.
 - b. Press the following buttons on the *Remote Commander* within 1 second of each other:



- c. To clear the error history and error count press $\textcircled{8} \Rightarrow \textcircled{0}$.
- d. Press Power 1/0 to exit Self Check Mode.
- 37. Cycle AC Power (Unplug and plug AC Cord from the outlet).

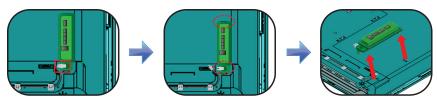
REMOVING THE SPEAKERS

1. Disconnect connectors from each Speaker, then lift to detach.



REPLACING THE SWITCH UNIT

1. Disconnect connector from Switch Unit, then lift to detach.



2. Install the new Switch Unit and connector.

TABLE TOP STAND

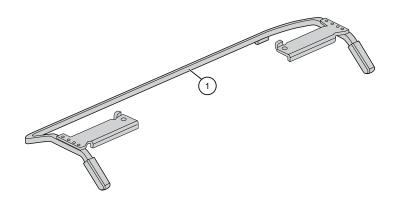
Components not identified by a part number or description are not stocked because they are seldom required for routine service.

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 shading and <u>Mark are critical for safety.</u>

Replace only with part number specified.

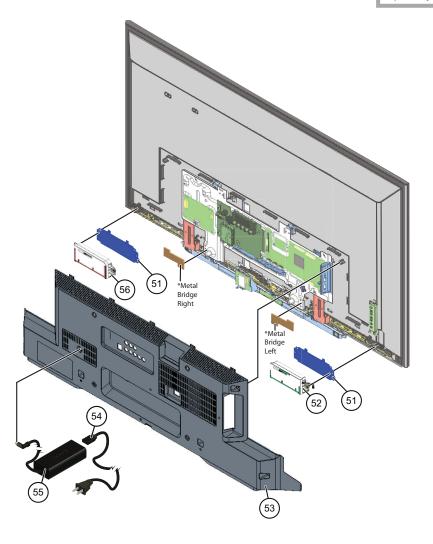
REF. NO.	PART NO.	DESCRIPTION
1	4-484-942-01	STAND SHAFT (M)
		(KDL-40W590B/40W600B ONLY)
1	4-484-943-01	STAND SHAFT (ML)
		(KDL-48W590B/48W600B ONLY)



KDL-40W590B/48W600B

NOTE: The components identified by shading and <u>M</u> mark are critical for safety.

Replace only with part number specified.



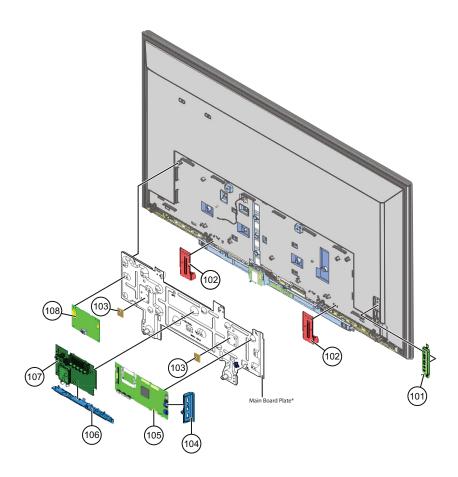
R	EF. NO.	PART NO.	DESCRIPTION
	51	4-476-162-01	BRACKET, SP
	52	1-858-963-11	SPEAKER BOX (LEFT)
	53	4-532-487-01	LOWER COVER (UNDER COVER 40) (KDL-40W590B/40W600B ONLY)
	53	4-532-488-01	LOWER COVER (UNDER COVER 48) (KDL-48W590B/48W600B ONLY)
<u> </u>	54	1-838-955-41	POWER SUPPLY CORD
\triangle	55	1-492-734-11	AC ADAPTOR (85W)
	56	1-858-963-21	SPEAKER BOX (RIGHT)

^{*} Reinstall Metal Bridge Right and Metal Bridge Left when replacing the LCD Panel. (KDL-48W590B/48W600B ONLY)

KDL-40W590B/48W600B

NOTE: The components identified by shading and <u>M</u> mark are critical for safety.

Replace only with part number specified.



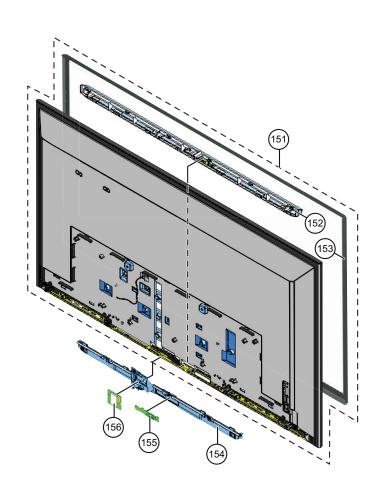
REF	. NO.	PART NO.	DESCRIPTION
10	1	1-474-560-11	SWITCH UNIT
102	2	4-476-164-01	STAND BRACKET
103	3	4-440-057-01	SHEET, THERMAL (AYU2) ORDER THIS PART WHEN REPLACING THE MAIN BOARD AND/OR LD BOARD.
104	4	4-528-972-01	BRACKET, SIDE
	5	A-2037-764-A	BAXL BOARD, COMPLETE
			AFTER REPLACING THE MAIN BOARD, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION.
100	6	4-528-973-01	BRACKET, UNDER
107	7	A-1998-231-A	TUS BOARD, COMPLETE AFTER REPLACING THE TUNER BOARD, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION.
108	8	A-1983-521-A	LD BOARD, MOUNTED (KDL-40W590B/40W600B ONLY)
108	8	A-1983-522-A	LD BOARD, MOUNTED (KDL-48W590B/48W600B ONLY)

^{*} Reinstall Main Board Plate when replacing the LCD Panel.

KDL-40W580B/48W580B

NOTE: The components identified by shading and <u>M</u> mark are critical for safety.

Replace only with part number specified.

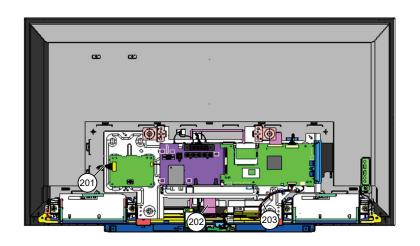


REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
<u></u> 151	NA	PANEL MODULE	[152, 153]
		FOR LCD PANEL AND TCON E INFORMATION REFER TO THI	BOARD PART NUMBER E LCD PANELS SERVICE MANUAL.
152	4-476-157-11	PANEL, ORNAMENTAL L (KDL-40W590B ONLY)	
152	4-476-157-61	PANEL, ORNAMENTAL L (KDL-40W600B ONLY)	
152	4-476-156-11	PANEL, ORNAMENTAL LL (KDL-48W590B ONLY)	
152	4-476-156-61	PANEL, ORNAMENTAL LL (KDL-48W600B ONLY)	
153	4-527-493-01	BEZEL (40) (KDL-40W590B/40W600B ONL	Y)
153	4-527-494-01	BEZEL (48) (KDL-48W590B/48W600B ONL	
154	4-476-160-01	COVER, OP L (KDL-40W590B/40W600B ONL	Y)
154	4-476-159-01	COVER, OP LL (KDL-48W590B/48W600B ONL	
155 156	A-1979-006-A 1-458-723-11	HJM BOARD, MOUNTED WIRELESS LAN CARD	

CONNECTORS

NOTE: The components identified by shading and $\underline{\wedge}$ mark are critical for safety.

Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION
201	1-910-804-48	CONNECTOR ASSEMBLY 20P
202	1-848-217-11	(LVDS) FLEXIBLE FLAT CABLE 51P (KDL-40W590B/40W600B ONLY)
202	1-848-218-11	(LVDS) FLEXIBLE FLAT CABLE 51P (KDL-48W590B/48W600B ONLY)
203	1-910-804-49	HARNESS ASSEMBLY (KDL-40W590B/40W600B ONLY)
203	1-910-804-52	HARNESS ASSEMBLY (KDL-48W590B/48W600B ONLY)

SCREWS

NOTE: The components identified by shading and mark are critical for safety.

Replace only with part number specified.

	P/N	DESCRIPTION	KDL-40W590B/40W600B	KDL-48W590B/48W600B
	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	Bracket Under to Lower Cover (1) Bracket Side to Lower Cover (1)	Bracket Under to Lower Cover (1) Bracket Side to Lower Cover (1)
	2-990-421-41	SCREW (+PSW) (M3X6)	Main Board (6), LD Board (4)	Main Board (6), LD Board (4)
*	4-256-393-01	SCREW, +PSW M3X6 W12	Tuner Board (4)	Tuner Board (4) Metal Bridge Right (2), Metal Bridge Left (2)
NA	7-685-647-79	SCREW, +BVTP 3X10 TYPE IT-3	Lower Cover (6), Main Board Plate (5), OP Cover a Bezel (3), Stand Brackets (2)	Wireless Lan Card (2), Lower Cover (7), OP Cover a Bezel (2), Stand Brackets (2), Main Board Plate (5)
Ginne.	4-159-298-21	SCREW, +PSW M4X10	Brackets Vesa (2) , Stand Brackets (2)	Brackets Vesa (2) , Stand Brackets (2)
NA	3-452-815-21	SCREW, +PSW M5X20	Stand to TV (2)	Stand to TV (2)
NA	2-580-611-01	SCREW, +PSW M6X16	Wall Mount Adapter (3)	Arm Left to Stand Shaft (2), Arm Right to Stand Shaft (2)

SECTION 5 - ACCESSORIES/PART NUMBER INFORMATION

ACCESSORIES AND PACKAGING

PART NO.	DESCRIPTION
3-452-815-21	SCREW, +PSW M5X20
	(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.
4-535-392-01	SCREW, +PSW M6X16
	(SCREWS TO ATTACH TV TO WALL MOUNT)
4-531-135-01	WALL HUNG BRACKET ASSEMBLY L
4-484-526-01	BRACKET, VESA
4-428-537-01	CLAMPER, AC ADAPTER
3-299-071-08	FLYER, SAFETY
4-489-955-11	MANUAL, INSTRUCTION (ENGLISH VERSION)
4-489-956-31	MANUAL, INSTRUCTION (SPANISH VERSION) (KDL-40W600B/48W600B ONLY)

MISCELLANEOUS

PART NO.	DESCRIPTION
4-100-136-01	SHEET (CORE), C
4-256-454-02	SPACER (GA)
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	
4-414-470-01	SUPPORT BELT KIT	

REMOTE COMMANDER

PART N	NO. DESCRI	PTION	
1-492-767	7-11 REMOTE	COMMANDER (RM-YD103)	

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.
- 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 originally 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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