

HISTORY

Model Name: KDL-19/22BX200
SERVICE MANUAL

Click on Page Number to display details of change

[illegible]

SERVICE MANUAL

AZ1-BK(5-3) CHASSIS

MODEL

DEST

MODEL

DEST

KDL-19BX200

AEP / UK / RUSS

KDL-22BX200

AEP / UK / RUSS



RM-ED037

FLAT PANEL COLOR TV
SONY®

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED  ON THE 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.

SECTION 1 GENERAL

CAUTION

Lead Free Soldered Boards

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. H1 etc [see example]. The servicing of these boards requires special precautions to be taken as outlined below.



example



Lead Free Solder material must be used to comply with environmental requirements of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

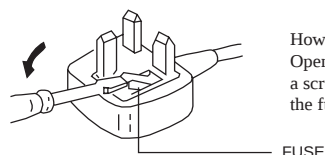
UK PLUG WARNING

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of the correct rating for the set. Should the fuse need to be replaced, use a fuse of the same rating approved by ASTA to **BS 1362**, ie one that carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with the correct rating fuse, otherwise the circuit should be protected by the same rating fuse at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

LCD PANEL CAUTION

Whilst working on this product, it is not recommended to lay the TV set face down when powered up, as this can result in panel problems. If it is necessary to power up the TV set when face down, the time should be minimised as much as possible.

SPECIFICATIONS

Model name	KDL-19BX200	KDL-22BX200
System		
Panel System	LCD (Liquid Crystal Display) Panel	
TV System	Analogue: Depending on your country/region selection: B/G, D/K, I, L Digital: DVB-T	
Colour/Video System	Analogue: PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.43 (only video input) Digital: MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC MP/HP@L4	
Channel Coverage	Analogue: VHF:E2-12 / UHF: E21-E69 / CATV:S1-S20 / HYPER: S21-S41 / D/K: R1-R12, R21-R69 / L: F2-F10,B-Q, F21-F69 / I: UHF B21-B69 Digital: VHF / UHF	
Sound Output	3 + 3 W	
Input/Output jacks		
Aerial / Cable	75 ohm external terminal for VHF / UHF	
 /  AV1	21-pin scart connector including audio / video input, S-Video input, RGB input and TV audio/video output.	
 / Y Pb Pr IN	Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohm, 0.3V negative sync. / Pb/Cb: 0.7 Vp-p, 75 ohm / Pr/Cr: 0.7 Vp-p, 75 ohm	
 Y Pb Pr IN	Audio input (mini jack)	
HDMI IN	Supported formats: 1080/24p 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bit, Dolby Digital 32, 44.1 and 48 kHz, Max bit rate 640 kHz PC input (see page 5)	
 PC	PC input (D-sub 15-pin) (see page 5) G: 0.7 Vp-p, 75 ohm, non Sync on Green/B: 0.7 Vp-p, 75 ohm / R: 0.7 Vp-p, 75 ohm	
 PC	Audio input (mini jack)	
 AV2	Video input (phono jack)	
 AV2	Audio input (phono jacks)	
	Headphones jack input	
	USB input	
	CAM (Conditional Access Module) input	
Power and others		
Power Requirements	220-240V AC, 50 Hz	
Screen Size (measured diagonally)	19 inches / Approx. 47 cm	22 inches / Approx. 55 cm
Display Resolution	1,366 dots (horizontal) x 768 lines (vertical)	
Power Consumption	27.0 W	43.0 W

Standby Power Consumption		0.76 W	
Average annual energy Consumption *1		39 kWh	63 kWh
Dimensions (W x H x D) (Approx)	(with stand)	457.3 x 334.5 x 152.6 mm	524.5 x 375.2 x 152.6 mm
	(without stand)	457.3 x 310.8 x 62.8 mm	524.5 x 352.3 x 66.7 mm
Mass (Approx.)	(with stand)	4.0 Kg	4.5 Kg
	(without stand)	3.7 Kg	4.3 Kg

Design and specifications are subject to change without notice.

*1 4 hours a day and 365 days a year.

PC Input Signal Reference Chart for PC and HDMI IN

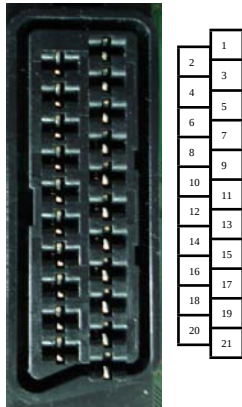
Resolution			Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
Signals	Horizontal Pixel	Vertical (Line)			
VGA	640	480	31.5	60	VESA
	640	480	37.5	75	VESA
	720	400	31.5	70	VESA
SVGA	800	600	37.9	60	VESA
	800	600	46.9	75	VESA
XGA	1024	768	48.4	60	VESA
	1024	768	56.5	70	VESA
	1024	768	60.0	75	VESA
WXGA	1280	768	47.8	60	VESA
	1280	768	47.4	60	VESA
	1360	768	47.7	60	VESA



- For the best picture quality, it is recommended to use the signals in the above chart with a 60 Hz vertical frequency (boldfaced).

CONNECTORS

21 Pin Connector (SCART)



Pin No	AV-1	AV-2	Signal	Signal Level
1	•	•	Audio Output B (Right)	Standard Level: 0.5V rms Impedance: less than 1KΩ*
2	•	•	Audio Input B (Right)	Standard Level: 0.5V rms Impedance: more than 10KΩ*
3	•	•	Audio Output A (Left)	Standard Level: 0.5V rms Impedance: less than 1KΩ*
4	•	•	Ground (Audio)	
5	•	•	Ground (Blue)	
6	•	•	Audio Input A (Left)	Standard Level: 0.5V rms Impedance: more than 10KΩ*
7	•	•	Blue Input	0.7V +/- 3dB, 75Ω, positive
8	•	•	Function Select (AV control)	High State (9.5~12V): AV mode Low State (0~2V): TV mode Impedance: more than 10KΩ* Capacitance: less than 2nF
9	•	•	Ground (Green)	
10	-	•	AV Link	
11	•	•	Green Input	0.7V +/- 3dB, 75Ω, positive
12	-	•	Open	
13	•	•	Ground (Red)	
14	•	•	Ground (Blanking)	
15	•	•	Red Input	0.7V +/- 3dB, 75Ω, positive
	•	•	S signal Chroma Input	0.3V +/- 3dB, 75Ω, positive
16	•	•	Blanking Input (Y Signal)	High State (1~3V) Low State (0~0.4V) Impedance: 75Ω
17	•	•	Ground (Video Output)	
18	•	•	Ground (Video Input)	
19	•	•	Video Output	1V +/- 3dB, positive sync 0.3V (-3~10dB)
20	•	•	Video Input	1V +/- 3dB, positive sync 0.3V (-3~10dB)
	•	•	Video Input Y (S Signal)	1V +/- 3dB, positive sync 0.3V (-3~10dB)
21	•	•	Common Ground (Shield)	

HDMI Connector



19	17	15	13	11	9	7	5	3	1
18	16	14	12	10	8	6	4	2	

Pin No	Signal Assignment	Pin No	Signal Assignment
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (N.C., on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

15 Pin D Sub Connector (PC)

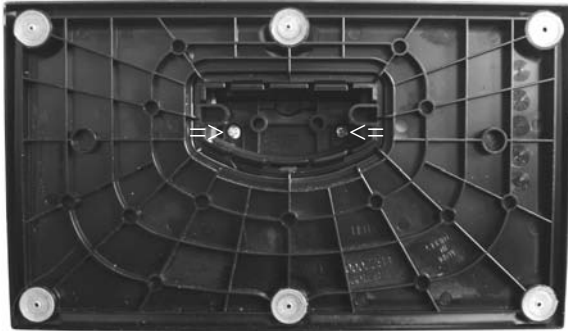


5	4	3	2	1
10	9	8	7	6
15	14	13	12	11

Pin No	Signal Assignment	Pin No	Signal Assignment	Pin No	Signal Assignment
1	Red Output	6	Red Return	11	Monitor IDO in display
2	Green Output	7	Green Return (Ground)	12	DCC Serial Data
3	Blue Output	8	Blue Return (Ground)	13	Horizontal Sync
4	Unused	9	+5V DC	14	Vertical Sync
5	Ground	10	Sync Return (Ground)	15	DCC Serial Clock

SECTION 2 DISASSEMBLY

2-1. Stand Assy Removal



To remove the 'Stand Assy' remove the 2 stand fixing screws indicated and pull the 'Stand Assy' away from the TV set.

Screw Part number(s)
4-196-434-01

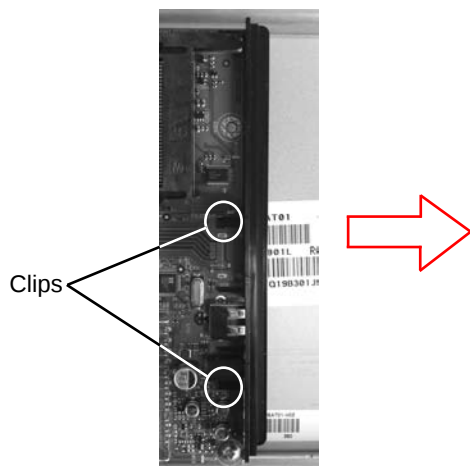
2-2. Rear Cover Removal



To remove the 'Rear Cover' first remove the 'Stand Assy' (See Sec 2-2-1) then remove the fixing screws indicated and carefully pull the 'Rear Cover' away from the rear of the TV set.

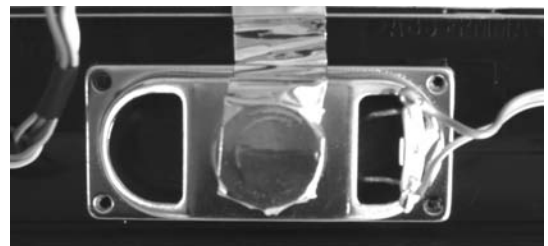
Screw Part number(s)
1) 4-196-431-01
2) 4-196-432-01

2-3. Side Jack Bracket Removal



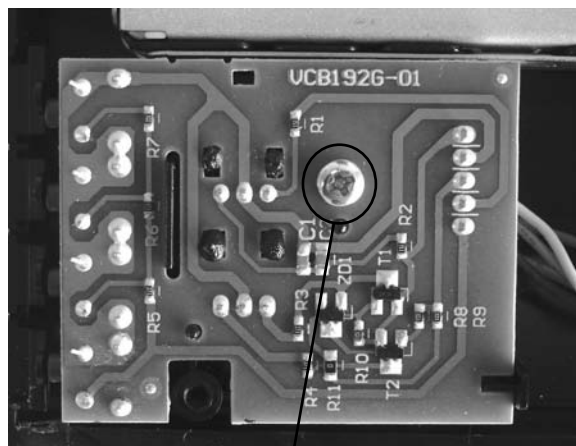
To remove the 'Side Jack Bracket' release the 2 clips circled and then gently pull the 'Side Jack Bracket' in the direction of the arrow away from the 'Main' board.

2-4. Loudspeaker Removal



To remove the 'Loudspeaker' disconnect the speaker cables then gently pull the 'Loudspeaker' away from the rear of the TV set.

2-5. Switch Unit Board Removal

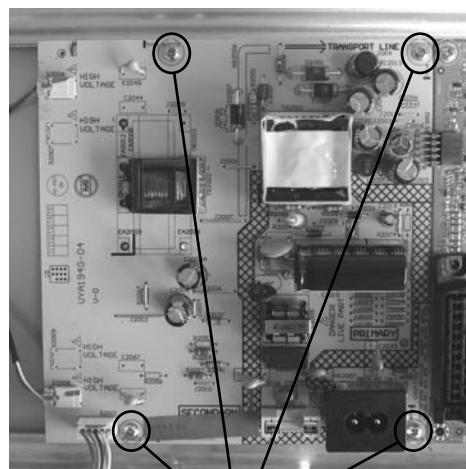


Screw

To remove the 'Switch Unit' board remove the 1 screw circled, then remove the 1 connector and ease the board gently away from the rear of the TV set.

Screw Part number(s)
4-196-433-01

2-6. Power Unit Board Removal

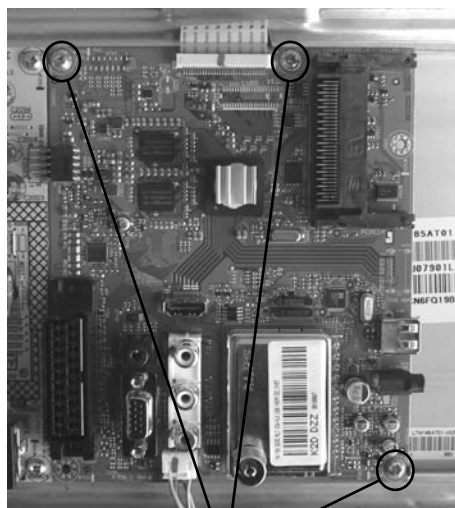


Screws

To remove the 'Power Unit' board disconnect all the connectors and then remove the 4 screws circled and ease the board gently away from the rear of the TV set.

Screw Part number(s)
4-196-433-01

2-7. Main Board Removal



Screws

To remove the 'Main' board disconnect the connectors and then remove the 3 screws circled and ease the board gently away from the rear of the TV set.

Screw Part number(s)
4-196-433-01

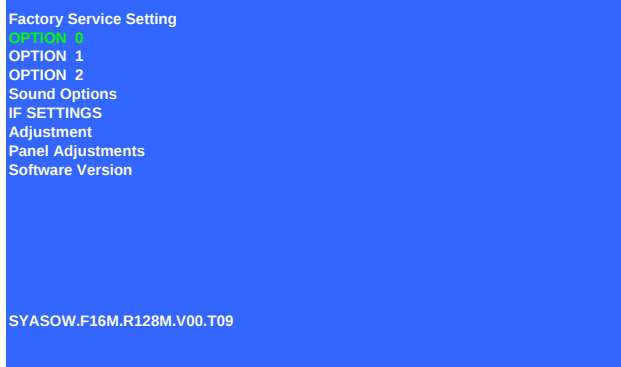
SECTION 3 SERVICE MENUS

3-1. How to enter the Service Mode

Service adjustments to this model can be performed using the supplied Remote Commander (See front cover).

1. Ensure the TV set is **ON**.
2. Press the “Menu” button on the Remote Commander.
3. Scroll to “Settings” item using the ‘↑’ or ‘↓’ arrow buttons on the Remote Commander.
4. Press the ‘+’ ok button on the Remote Commander.
5. Press the following digits on the Remote Commander 2, 0, 2, 3.
6. The following menu then appears on the screen (See Pic.1).

Pic.1



Factory Service Setting
OPTION 0
OPTION 1
OPTION 2
Sound Options
IF SETTINGS
Adjustment
Panel Adjustments
Software Version

SYASOW.F16M.R128M.V00.T09

7. Move to the corresponding adjustment item using the ‘↑’ or ‘↓’ arrow buttons on the Remote Commander.
8. Press the ‘+’ ok button to enter into the required menu item.
9. Alter the data value using the ‘←’ or ‘→’ arrow buttons on the Remote Commander.
10. To go back at any time press the ‘Return’ button on the Remote Commander.

After carrying out the service adjustments, to prevent the customer accessing the ‘Service Menu’ switch the TV set OFF and then ON again.

3-2. Service Menu Structure

The following descriptions show the items that can be viewed and/or adjusted using the Service Menu.

3-2-1. Option 0 Menu

The following menu appears on the screen when you enter the ‘Option 0’ menu (See Pic.2).

Pic.2



OPTION 0
STANDBY
TEXT
TEXT PAGE
Tuner
Plug Play
HDCP Verify
0.1 WATT
CUSTOMER
FAST TOP
1000
ALPS_TDAGAXDO1A_Tuner
OFF
>
Off
Debug Mode

3-2-2. Option 1 Menu

The following menu appears on the screen when you enter the ‘Option 1’ menu (See Pic.3).

Pic.3



OPTION 1
Blue Back
Panorama
Remote
Keypad
Hotel
Hotel Volume
Hotel First Power
7 Segment Display
Eco TV
OFF
AVAIL
SONY_39Key
3 BUTTON +1 STD
NAVAIL
65
Standby
NAVAIL
OFF

3-2-3. Option 2 Menu

The following menu appears on the screen when you enter the 'Option 2' menu (See Pic.4).

Pic.4

OPTION 2	
PC	AVAIL
HDMI	AVAIL
AV 2	AVAIL
S-VIDEO (AV 1)	AVAIL
AV 1	AVAIL
YPBPR (PC)	AVAIL
USB	AVAIL
DVD	NAVAIL

3-2-4. Sound Options Menu

The following menu appears on the screen when you enter the 'Sound Options' menu (See Pic.5).

Pic.5

Sound Options	
L	AVAIL
Headphone	AVAIL
ATS	AVAIL
SRS TruSurround XT	NAVAIL
HIDEV MONO	NAVAIL

3-2-5. IF Settings Menu

The following menu appears on the screen when you enter the 'IF Settings' menu (See Pic.6).

Pic.6

IF SETTINGS	
AGC VHF	3
AGC UHF	5
AGC LPRIME	4

3-2-6. Adjustment Menu

The following menu appears on the screen when you enter the 'Adjustment' menu (See Pic.7).

Pic.7

Adjustment	
ADC	
Auto Colour	N/A
Test Pattern EN.	ON
Test Pattern	OFF
Test Pattern Edit	
SSC ADJUST	

3-2-7. Panel Adjustments Menu

The following menu appears on the screen when you enter the 'Panel Adjustments' menu (See Pic.8).

Pic.8

Panel Adjustments	
Panel Name	19V-SS3_S
Panel Adaptation	
Panel WBA	
DCR	ON
Gamma	ON
MEMC	OFF
MEGA DCR	OFF

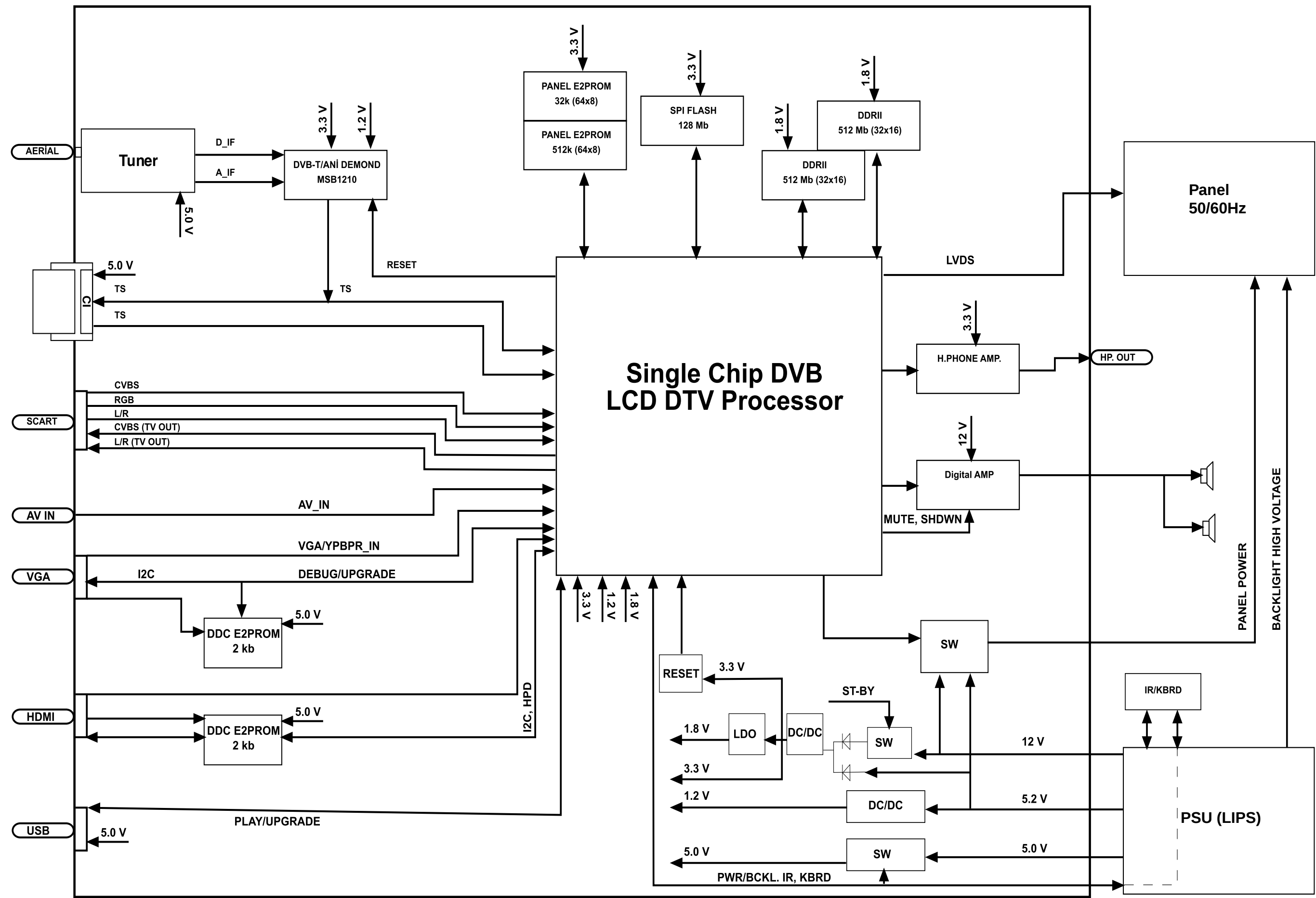
3-2-8. Software Version Menu

The following menu appears on the screen when you enter the 'Software Version' menu (See Pic.9).

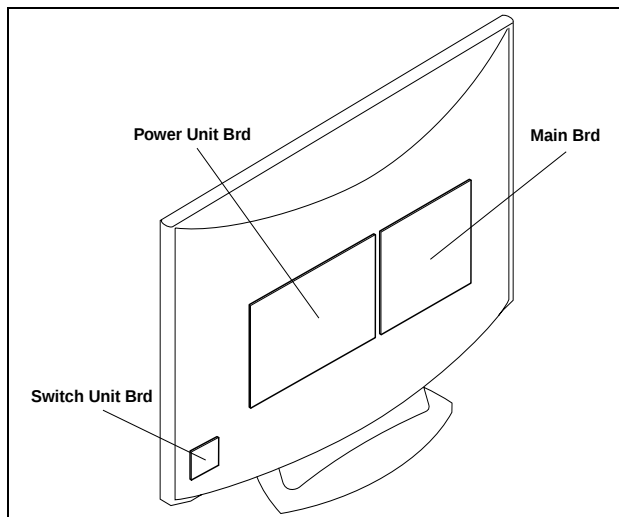
Pic.9

Software Version	
Board Name:	T5 BOARD
Tuner Name:	ALPS_TDA4XD01A_TUNER
Software Version:	SYASOW.F16M.R128M.V00.T09
Hardware Version:	255
SystemE2 Version:	1
PanelE2 Version:	PANEL.T5.185SS03.S.W.-.V01.001.00
URSA Version:	
Compile Date:	01/06/2010
Compile Hour:	19:15:40

4-1. BLOCK DIAGRAM



4-2. CIRCUIT BOARD LOCATION



Note :

- All capacitors are in μF unless otherwise noted.
- pF : μF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked  are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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

SECTION 5 EXPLODED VIEWS

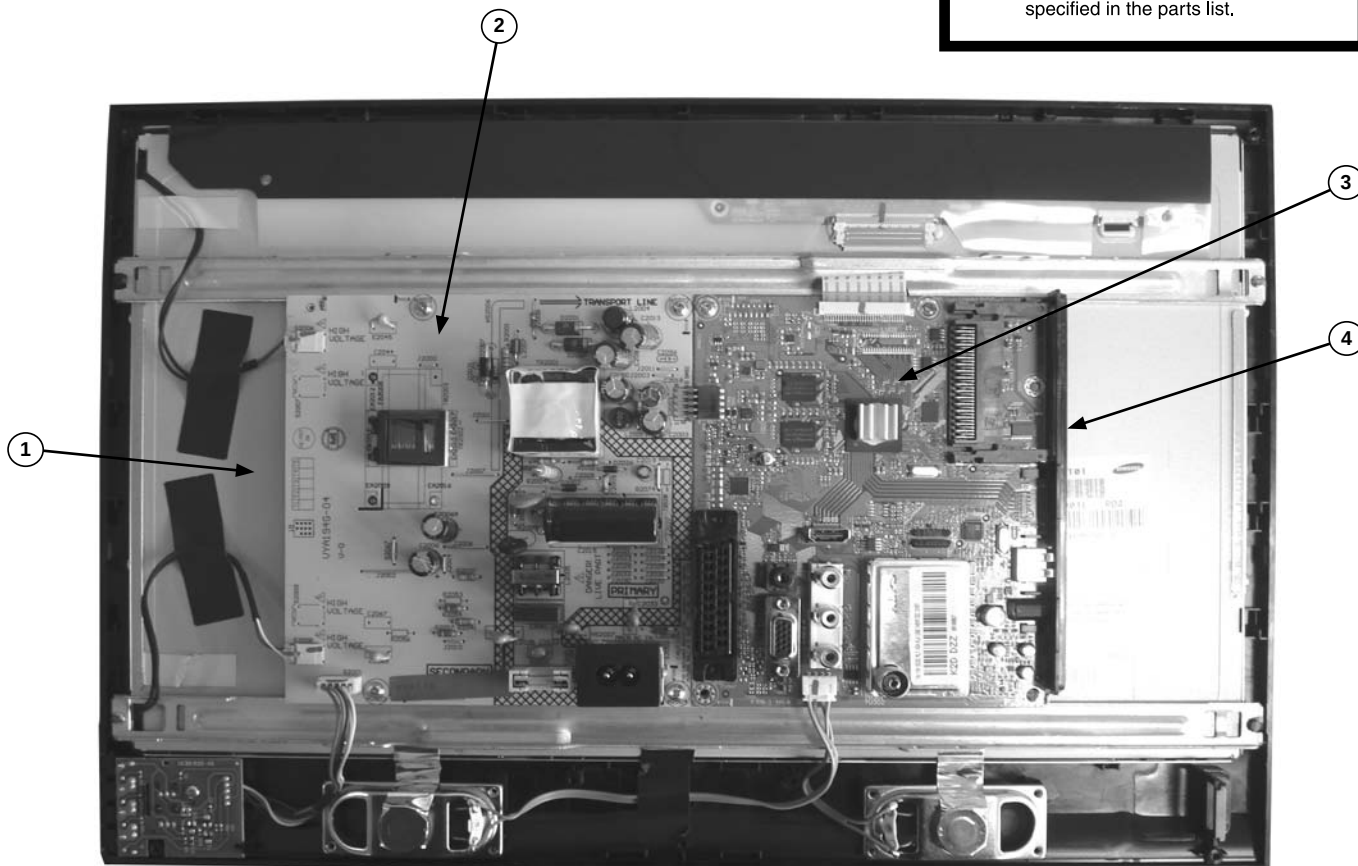
NOTE :

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

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

5-1. CHASSIS



Note : When replacing the LCD panel or Power Unit board please ensure you order the correct one i.e. make sure the comments in the remark column match.

For example:-

19" LCD Panel 1-811-197-11 (SS1G) must be used with Power Unit Board 1-474-241-11 (LP6G/SS1G).

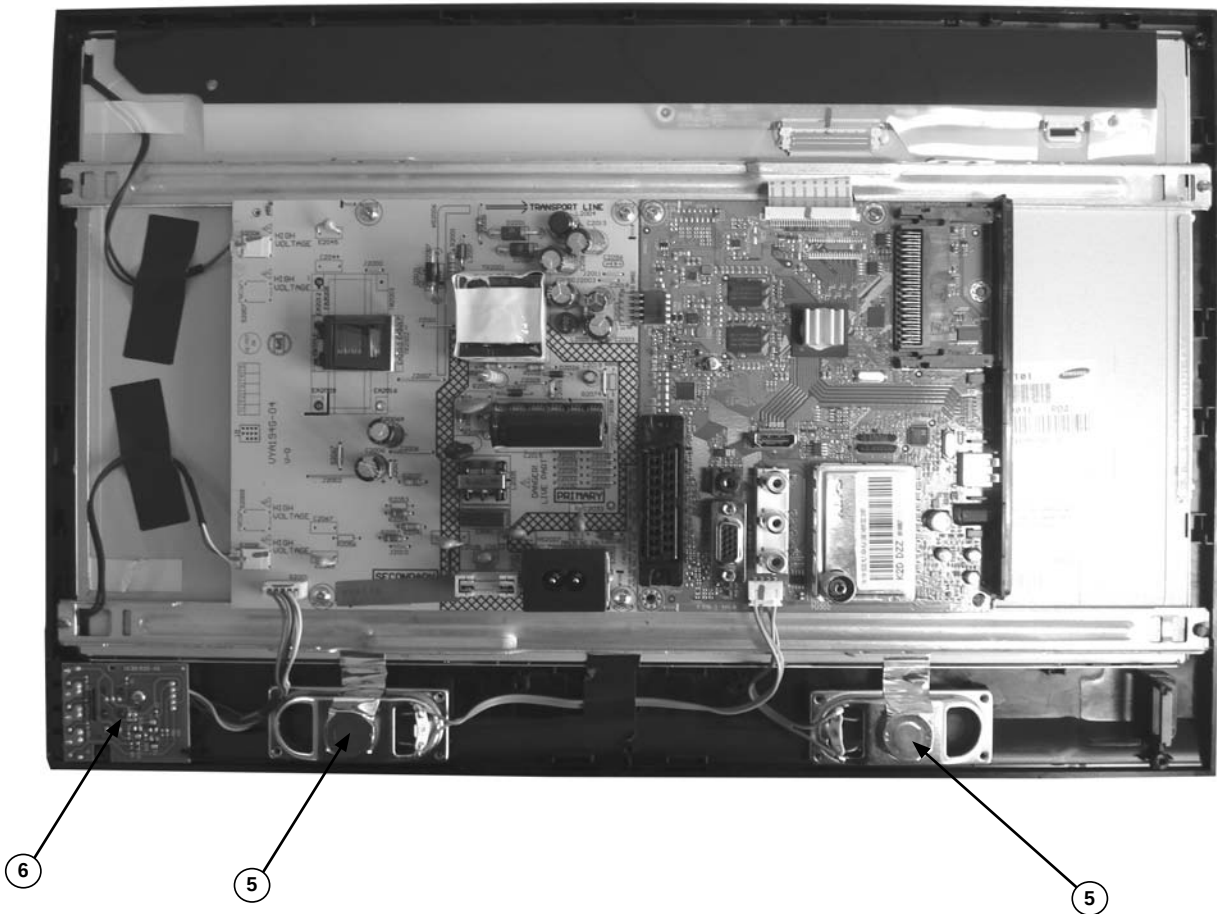
Note : The components identified by mark Δ contain confidential information. Strictly follow the instructions when ever the components are repaired and/or replaced.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	Δ 1-811-197-11	LCD PANEL (19INCH WXGA TFT)	SS1G	2	Δ 1-474-241-11	POWER UNIT BOARD, COMPLETE	19" LP6G/SS1G
	Δ 1-811-197-21	LCD PANEL (19INCH WXGA TFT)	AU1G		Δ 1-474-241-21	POWER UNIT BOARD, COMPLETE	19" AU1G/
	Δ 1-811-197-31	LCD PANEL (19INCH WXGA TFT)	LP6G				SS3G/CH3G/CH4G/AU3G
	Δ 1-811-197-41	LCD PANEL (19INCH WXGA TFT)	SS3G		Δ 1-474-242-11	POWER UNIT BOARD, COMPLETE	22" SS2G/SS3G
	Δ 1-811-197-51	LCD PANEL (19INCH WXGA TFT)	AU3G		Δ 1-474-242-21	POWER UNIT BOARD, COMPLETE	22" AU2G
	Δ 1-811-197-61	LCD PANEL (19INCH WXGA TFT)	CH3G		Δ 1-474-242-31	POWER UNIT BOARD, COMPLETE	22" LP1G
	Δ 1-811-197-71	LCD PANEL (19INCH WXGA TFT)	CH4G		Δ 1-474-242-41	POWER UNIT BOARD, COMPLETE	22" CH3G
	Δ 1-811-198-11	LCD PANEL (22INCH WXGA TFT)	SS2G	3	Δ 1-857-682-11	MAIN BOARD, COMPLETE	19 inches
	Δ 1-811-198-21	LCD PANEL (22INCH WXGA TFT)	AU2G		Δ 1-857-683-11	MAIN BOARD, COMPLETE	22 inches
	Δ 1-811-198-31	LCD PANEL (22INCH WXGA TFT)	LP1G	4	4-178-415-01	19/22 SIDE JACK BRACKET BLACK	
	Δ 1-811-198-41	LCD PANEL (22INCH WXGA TFT)	SS3G		4-193-024-01	19/22 SIDE JACK BRACKET WHITE	
	Δ 1-811-198-51	LCD PANEL (22INCH WXGA TFT)	CH3G				

5-1. CHASSIS Cont.

Note : Les composants indentifies par une trame et par une marque Δ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
5	1-858-452-11	LOUDSPEAKER (3.0x7.0CM)	19 inches				
	1-858-453-11	LOUDSPEAKER (3.5x15.0CM)	22 inches				
6	1-489-163-11	SWITCH UNIT BOARD, COMPLETE					

5-2. BEZEL ASSY & STAND ASSY

Note : Les composants indentifiés par une trame et par une marque Δ sont d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

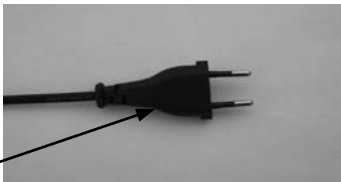


REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-2548-549-1	19 BEZEL ASSY BLACK		52	4-178-410-01	19 NECK BLACK	
	X-2548-551-1	19 BEZEL ASSY WHITE			4-193-020-01	19 NECK WHITE	
	X-2548-552-1	22 BEZEL ASSY BLACK			4-178-422-01	22 NECK BLACK	
	X-2548-554-1	22 BEZEL ASSY WHITE			4-193-021-01	22 NECK WHITE	
				53	X-2548-560-1	19/22 STAND ASSY BLACK	
					X-2548-561-1	19/22 STAND ASSY WHITE	

5-3. REAR COVER ASSY & POWER SUPPLY CORDS

Note : Les composants indentifiés par une trame et par une marque Δ sont d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
101	X-2548-555-1	19 REAR COVER ASSY BLACK		102	Δ 1-838-166-11	POWER-SUPPLY CORD (AEP)	
	X-2548-556-1	19 REAR COVER ASSY WHITE		103	Δ 1-838-167-11	POWER-SUPPLY CORD (UK)	
	X-2548-557-1	22 REAR COVER ASSY BLACK					
	X-2548-558-1	22 REAR COVER ASSY WHITE					

SECTION 6

PARTS LIST

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Note: To ensure safety and reliability it is Sony policy that boards should not be repaired in the field, as a result all boards are regarded as non service items for exchange only and are not indicated in the parts list of this service manual.

Note : Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
ACCESSORIES AND CONNECTORS							
	1-838-168-11	FLEXIBLE FLAT CABLE (30P) (TCON-SIGNAL BRD)					
		(Used with all LCD panels except the 22" CH3G panel)					
	1-838-288-11	FLEXIBLE FLAT CABLE (30P) (TCON-SIGNAL BRD)					
		(Used with 22" CH3G LCD panel only)					
	1-910-600-04	CONNECTOR ASSY 5P	19 inches				
	1-910-600-05	CONNECTOR ASSY 5P	22 inches				
INSTRUCTION MANUALS							
	*4-193-041-01	INSTRUCTION MANUAL					
	*4-193-042-01	INSTRUCTION MANUAL DVD					
REMOTE COMMANDER							
	1-489-037-11	REMOTE COMMANDER (RM-ED037)					

