REVISION HISTORY

AZ1-A CHASSIS

PART NO.: 9-888-122-F€ Segment: 5-2

MODEL

KLV-22BX300 KLV-26BX300 KLV-32BX300 KLV-40BX400

NO.	SUFFIX	DATE	SUPP / CORR	DESCRIPTION
1	-01	2009/12		1st Issue
2	-02	2010/2	Corr-1	Revise model name (pg 21)
3	-03	2010/3	Corr-2	-delete- Flow Chart Information Change(pg 8)
4	-04	2010/6	Supp-1	New Model Addition(pg 25)
5	-05	2010/6	Supp-2	 Add Segment information (Revision History, Cover Page) Revised GAISOU Table information (pg 10) Part Number Addition(For 40BX400) (pg 21) Updated Section 3 (Troubleshooting) (pg 41-69)
6	-06	2010/8	Supp-3	KLV-32BX300: Add CMI(Panel) information(pg 70-71) (pg 15), (pg 20)
7	-07	2010/8	Supp-4	 Add Support,Panel (26",32",40") (pg 19), (pg 20), (pg 21) Revised Power Board Information (All) (pg 18, 19, 20, 21) Revised BAA Board Information(All) (pg 18, 19, 20, 21) Revised LCD Panel Information (22",32",40") (pg 18, 20, 21)
8	-08	2010/9	Supp-5	New Model Addition (pg 72-78)
9	-09	2011/1	Supp-6	Revise Ref. Number (pg 21)
10	-10	2011/4	Supp-7	New Model Addition (pg 79)
11	-11	2011/4	Corr-3	Revise model name (pg 79)
		-	Supp-8	Revise Power Board info for Ukraine (pg 21)

6



SERVICE MANUAL

AZ1-A CHASSIS

MODEL	<u>COMMANDER</u>	<u>DEST.</u>	MODEL	<u>COMMANDER</u>	DEST. Segment: 5-2
KLV-22BX300	RM-GA019	ARM, Iran, India, Indonesia, Malaysia, New Zealand, Nigeria, Saudi Arabia, Ukraine, Singapore, SOGUL, South Africa,	KLV-32BX300	RM-GA019	ARM, Iran, India, Indonesia, Malaysia, Nigeria, Saudi Arabia, Singapore, SOGUL, Ukraine, South Africa, Thailand, Tunisia,
KLV-26BX300	RM-GA019	Thailand, Tunisia, Phillipines ARM, Iran, India, Indonesia, Malaysia, New Zealand, Nigeria, Saudi Arabia, Singapore, SOGUL, South Africa, Ukraine, Thailand, Tunisia, Phillipines	KLV-40BX400	RM-GA019	Phillipines ARM, Iran, Indonesia, Malaysia, Nigeria, Saudi Arabia, Singapore, Ukraine, Vietnam, Phillipines Tunisia, South Africa India, Thailand



KLV-22BX300



KLV-26BX300



KLV-32BX300





KLV-40BX400



Section Title

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OPERATING INSTRUCTIONS

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5.

SECTION 1 SAFETY NOTES

1-1. Caution Handling of LCD Panel

When installing the LCD Panel, make sure you are grounded with a wrist band.

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

1) Do not press the panel or frame edge to avoid the risk of electric shock.

2) Do not scratch or press on the panel with any sharp objects.

3) Do not leave the module in high temperature or in areas of high humidity for an extended period of time.

4) Do not expose the LCD panel to direct sunlight.

5) Avoid contact with water. It may cause short circuit within the module.

6) Disconnect the AC adapter when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms)

7) Always clean the LCD panel with a soft cloth material.

8) Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short circuit.9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

1-2. 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 contact high-wattage resistors.

3)Check all control knobs, shields, covers, ground straps and mounting hardware have been replaced. Be absolutely certain 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 test as described next.

8) Live chassis can cause electric shock as its connected to the AC power line. Therefore, use isolation transformer and gloves when changing parts or removing plug. Please remember high voltage is there during servicing.

9) To follow safety after servicing, please make sure the removed screws, parts and wires are as original condition.

1-3. 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 0.5mA (500 microamperes). Leakage current can be measured by any one of the three methods:-

1. A commercial leakage tester such as the SIMPSON 229 or RCA WT-540A. Follow the manufacturers instructions to use those instructions.

2. A battery-operated AC milliampmeter. The DATAPRECISION 245 digital multimeter is suitable for this job.3. Measuring the voltage drop across a resistor by means of

a VOM or battery operated AC voltmeter. The 'limit' indication is 0.75V so analog meters must have an accurate low voltage scale. The SIMPSON'S 250 and SANWA SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 VAC range are suitable. (see Figure 1.)



Figure 1. AC voltmeter to check AC leakage

1-4. WARNING !

SAFETY-RELATED COMPONENT WARNING! COMPONENTS IDENTIFIED BY SHADING AND MARK ▲ ON THE EXPLODED VIEWS ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

1-5. Lead Free Information

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.



Figure 2: LF logo



Figure 3: LF logo on circuit board

The servicing of these boards requires special precautions. It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers:-

Part number	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 high 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*

1-6. Attachment & Detachment of MDF61 Connector (If applicable for these models)a) Insertion



b) Detachment



1-7. Attachment, Detachment & Confirmation of Lock Condition of JST IBH Connector (If applicable for these models)

Attention: This is a **SAFETY CRITICAL PROCESS.**

a) Attachment

(1) Press the center of the connector to insert it.



(2) Press position (NG for red marking portion)



(3) Prohibited matter (Refer Figure A~C explanation)





Figure A



Figure A:	Do not press lock
	portion.
Figure B:	Do not press the
	front side of the
	connector.
Figure C:	Do not press the side
-	of the connector.

- 4 -

SECTION 2 SELF DIAGNOSTIC FUNCTION

2-1. Overview of Control Buttons



2-2. LED Display Specification

LED Type	Description	Remark
POWER	Green:LED	Green lights at power ON.
STANDBY	Red: One LED	Red lights during standby.
Timer/ Pic off	Orange/Green : Two LEDs	Green Lightsduring Picture Off and Orange Lightsduring Timer activation.

2-3. LED Display Control

Status	LED Display			Pomork
Status	Power	Stand By	Pic Off/Connecting/Timer	INCITICITY
Power On	Green	Off	Off	
Standby	Off	Red	Off	
Self Diagnosis	Off	Red	Off	Refer to Blinking pattern selfdiagnosis mode
Error of panel ID	Green	Off	Orange	0.5sec On / 0.5sec Off
Others (Example)				
[REC][Seep Timer][Power ON]	Red	Off	Orange	
[Picture Off][On Timer][REC][Power On]	Red	Off	Green	

2-4. LED Pattern

When safety shutdown occurs, Standby LED display reports the cause by using the lightning patterns as indicated below.



Example:

The figure above shows LED display when SHUTDOWN is caused by Balancer Error. It repeats flashing for a specified number of times in 0.5sec/ cycle and has a 3 seconds interval of lighting off. Please note that a 3 seconds interval of lighting off is fixed regardless of abnormal state types.

2-5. Standby LED Error Display and Board Replacement Order Perform below countermeasure according Standby LED blinking times

Blinking times	Error	Countermeasure (Replace either/all according to sequence)
2	Main Power Error	 1. GD1 (22"), POWER UNIT(G1LS) (26"), G2LE (32"), G2HE (40") 2. BAA board
3	DC_ALERT1/ Audio Error/ Motionflow Error	 BAA board GD1 (22"), POWER UNIT(G1LS) (26"),G2LE (32"), G2HE (40") TCON Speaker
4	Balancer Error	 Inverter board Panel GD1 (22"), POWER UNIT(G1LS) (26"), G2LE (32"), G2HE (40") BAA board
5	T-CON Error/ Panel ID NVM Error	 T-CON BAA LVDS Cable GD1 (22") , POWER UNIT(G1LS) (26"),G2LE (32"), G2HE (40")
6	Backlight Error	 Inverter board GD1 (22") , POWER UNIT(G1LS) (26"),G2LE (32"), G2HE (40") BAA
7	Temp Error	1. BAA 2. GD1 (22") , POWER UNIT(G1LS) (26"), G2LE (32"), G2HE (40")

Note1: Each of the above blinking repeats 3 seconds. Note2: Countermeasure is list out by priority.

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		Syı	nptom (dead set)						Video (distored or m	nissing		
							No Video	No Video	No Video	No Tuner	Tuner OK	No HDMI	No Audio
Blinks	3Blinks	4Blinks	5Blinks	6 Blinks	7Blinks	No Power	BL OK	No BL	BL OK	Video OK	Video 1-3		
							OSD OK		No OSD		Bad		
•	•		•		•	•	•	•	•	•	•	•	•
•				•	•	•		•					•
•				•	•	•		•					•
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								•					
o Powe	er BAA board	Balancer ⁻	FCON, Panel ID	Inverter T	emperature	No Power I	BAA board	BAA board	BAA board	BAA board	BAA board	BAA board	BAA board

Doubtful part
 few possibility

KLV-22, 26, 32 BX300, 40 BX400 RM-GA019

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SECTION 3 TROUBLESHOOTING

PLEASE REFER TO PAGE 41-69 FOR THE UPDATED TROUBLESHOOTING

PLEASE REFER TO PAGE 41-69 FOR THE UPDATED TROUBLESHOOTING

SECTION 4 SERVICE ADJUSTMENT

4-1. Accessing Self Diagnostic Menu

- 1. While TV on standby mode, press the following sequence on the Remote commander. (RM-GA019)
 - < Display--> <5>--> <Vol Down>--> <Power>



- 2. To Reset Error Count & Error History Press < 8 > --> < 0 > key
- 3. To Reset Panel Operation Time Press < 7 > --> < 0 > key
- 4. To exit, turn the power off using Remote.

4-2. Accessing Service Mode

- 1. While TV on standby mode, press the following sequence on the Remote commander.
 - < Display--> <5>--> <Vol Up>--> <Power>



Service Mode Menu Sample

 Use the ↓ or ↑ button to select the item you want to refer and press ⊕ for details. Example Status information

Service Mode Status Information >> Main Micro Test Reset <[Off]> Tuning System <[Auto]> No_Signal_Mute <[Off]> Serial Number Edit Boot Version TB0.341 Self Diagnosis History >> Flash PQ Version MT0000.000.0030.LT LVDS Spectrum (%) <[10]> AQ Version AQ0.003

4-3. GAISOU Adjustment

- 1) When new board is replaced, please confirm the color ornamental of the TV set.
- While TV on standby mode, press the following sequence on the Remote commander.

<Display> \rightarrow <5> \rightarrow <Vol Up> \rightarrow <Power>

Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	
VCR1	<[off]>
GAISOU	<[0]>

Service Mode Menu Sample

3) Use the \downarrow or \uparrow button to select the GAISOU.

Service Mode	
Status Information >>	
Test Reset	<[Off]>
Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	<[5]>
VCR1	<[off]>
GAISOU	<[0]>

Service Mode Menu Sample

- 4) Use the \leftarrow or \rightarrow button to change the GAISOU data.
- 5) The color variation table of each TV set as below:-

Case	Color	Model	Pan	el ID	Area
Table	Туре	Name	Resolution	Inch Size	ID
00	Default	5-2	WXGA/FHD	40, 32, 26, 22	ALL
01	Glossy Gun Metallic (back print)	3a-2	FHD	32,40,46	GA
02	Glossy Silver (back print)	3a-2	WXGA	22,26,32	GA
03	Red	3a-2	FHD	32	GA
04	Blue	3a-2	FHD	32	GA
05	Matt Gun Metallic	3a-2	FHD	32,40,46	СН
06	Flat Gun Metallic Hairline	3a-1, 3a-0.5	HFR/ FHD	32,40,46,55	ALL
07	Silver	5-0	FHD	32,40	ALL
08	Black	5-0	WXGA	26,32	ALL

6) For example if color is Red than should select 03 in the service mode of the TV set.

SECTION 5 DIAGRAMS



5-1. BLOCK DIAGRAM 5-1-1. KLV-22, 26, 32 BX300



5-1-2. KLV-40BX400



000

N100/CN00 (10/12)

00000

CN5600 (30)

LED, Optical Sensor, SIRCS

Speaker L

H2LR

 \bigcirc

(30)

5-2. WIRE DRESSING AND CONNECTOR DIAGRAM 5-2-1. KLV-22BX300

INVERTER

AV_Input/ Power On /Off

i.

(3)

H2LS/ SW unit

(4) NXXX

Speaker R



V600 (2)

AC Powe

5-2-2. KLV-26BX300





5-2-3. KLV-32BX300



5-2-4. KLV-40BX300





5-3. CIRCUIT BOARD LOCATION

5-3-1 KLV-22BX300

5-3-2 KLV-26BX300



5-3-3 KLV-32BX400

5-3-4 KLV-40BX400



NOTE: FOR CMO (PANEL) information please refer to page 70-71.

SECTION 6 DISASSEMBLY, EXPLODED VIEW AND OTHER PARTS



The reference number beside the part description in the illustration indicates the disassembly sequence.

DESCRIPTION REMARK X-2514-989-1 BASE (S3B) ASSY 4-158-356-01 NECK (S5) 4-158-399-01 COVER, NECK (S3B) X-2515-517-1 REAR COVER(22) ASSY 4-115-101-41 COVER, ECS 4-127-133-01 PLATE, VESA 4-157-865-01 COVER,UNDER(22) 4-157-866-01 BRACKET, SPEAKER (22L/R) 1-858-339-11 LOUDSPEAKER (4X10CM) 4-156-944-51 BRACKET, SIDE JACK A-1782-846-A BAA COMPL (BX_WX) (SERVICE) (EXCEPT 22BX300(INDIA)) 1-474-204-33 STATIC CONVERTER(TV)-GD1-2A(EXCEPT 22BX300(INDIA)) ✓ ③ ▲ 1-811-070-12 LCD PANEL (A216V3) (T216XW01V3) A-1744-833-A H2LR MOUNT A-1744-834-A H2LS MOUNT (AZ1A) X-2514-589-1 BEZEL (22) ASSY

A-1784-342-A BAA COMPL (BX WX) (SERVICE) ID (22BX300(INDIA)) 1-474-234-13 STATIC CONVERTER(TV)-GD1-2A(IN) (22BX300(INDIA))

6-1-2. KLV-26BX300

Screw: Parts List: REF. NO. REF. NO. PART NO. DESCRIPTION 31014 2-580-640-01 SCREW, +BVTP 4X16 TYPE 2 IT-3 19232426 2-580-592-01 SCREW, +PSW M3X8 2-580-595-01 SCREW, +PSW M3X12 4 151216 7-685-648-79 +BVTP 3X12 TYPE 2 IT-3 928 4-159-298-01 SCREW, +PSW M4X10 C. Boards, Panel and Bezel 36 Bezel Assy A-3) 33 35 36 **B** ₫ 1-Â 39 H2LS Board 20 3 Support, 3 Connectors 6 25 🔒 A-Panel 6 32 6 B. Boards, Speakers and Frame 00 3 LCD Panel A CONTRACTOR 6 ٩ 2 Power Unit 3 3 Connectors 19 4 screws 0 $\left(\right)$ 3 H2LR Board 00 18 Connectors S) . 29 Frame, Bottom (SS) 🔞 4 screws 🖕 28 2 screws - or 1 Loudspeaker (4 x 10cm) 1 Cover, Under A. Stand and Rear Cover Assy (26) 15.1) Bracket SP (26R) Joint Frame Assy 15 SP Bracket Q. 6 Rear Cover (26) Assy (26R) Assy ④ 1 screw 2 Connectors 2 26 2 screws 8 1 screw 12 4 screws 8 Bracket, Vesa (SS) 1 Bracket, Side Jack ③ 10 screws G (1) Loudspeaker 23) 2 screws (4 x 10cm) 2 screws 10.1) 1 screw 29 BAA Board (1) SP Bracket (15.1) Bracket SP (26L) ④ 2 screws (26L) Assy R (5) 2 screws 2 Base (M3B) Assy ⑦ Cover, ECS 2 Cover, Neck (M3B)

The reference number beside the part description in the illustration indicates the disassembly sequence.

1 4 screws

2 Neck (M3B)

).	PART NO.	DESCRIPTION	REMARK
	X-2546-140-1	BASE (M3B) ASSY	
	4-171-685-01	NECK (M3B)	
	4-171-689-01	COVER, NECK (M3B)	
	X-2515-518-1	REAR COVER(26) ASSY	
	4-115-101-41	COVER, ECS	
	4-157-975-01	COVER, UNDER (26)	
	X-2547-448-1	SP BRACKET (26L) ASSY	
	1-858-341-11	LOUDSPEAKER (4X10CM)	
	X-2547-449-1	SP BRACKET (26R) ASSY	
	1-474-199-12	STATIC CONVERTER (TV) (EXC	CEPT 26BX300 INDIA))
	4-156-944-51	BRACKET, SIDE JACK	
ŀ	A-1782-846-A	BAA COMPL (BX_WX) (SERVICE) (EX	KCEPT 26B300(INDIA))
Ń	1-811-071-11	LCD PANEL (A26V0)	
	A-1744-833-A	H2LR MOUNT	
	A-1744-834-A	H2LS MOUNT (AZ1A)	
	X-2514-590-1	BEZEL (26) ASSY	
	1-474-231-12	STATIC CONVERTER (TV) (26BX300	(INDIA))
Ì	A-1784-342-A	BAA COMPL (BX_WX) (SERVICE)_I	(26BX300(INDIA)))
	4-157-992-01	SUPPORT, PANEL	

KLV-22, 26, 32 BX300, 40 BX400 RM-GA019

6-1-3. KLV-32BX300

Screw:

REF. NO.	PART NO.	DESCRIPTION
3(1)(5) (1)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)	2-580-640-01 2-580-592-01 2-580-595-01	SCREW, +BVTP 4X16 TYPE 2 IT-3 SCREW, +PSW M3X8 SCREW, +PSW M3X12
93	7-685-648-79 4-159-298-01	SCREW +PSW M4X10

NOTE: FOR CMO (PANEL) information please refer to pages 70-71



· The reference number beside the part description in the illustration indicates the disassembly sequence.

Parts	List:			
REF. N	O. PART NO.	DESCRIPTION	REMARK	
<u>s</u> 2	X-2546-140-1	BASE (M3B) ASSY		
2.1	4-171-685-01	NECK (M3B)		
22	4-171-689-01	COVER, NECK (M3E	5)	
6	X-2515-519-1	REAR COVER (32) A	SSY	
7	4-115-101-41	COVER,ECS		
8	4-167-326-01	BRACKET, VESA (S)		
(10)	4-157-976-01	COVER, UNDER (32))	
10	4-169-309-01	COVER, UNDER (32))	
(12)	X-2547-450-1	SP BRACKET (32L)	ASSY	
(14)(18)	1-858-364-11	LOUDSPEAKER (12.	5.4.5CM)	
(16)	X-2547-451-1	SP BRACKET (32R)	ASSY	
21	A-1784-668-A	G2LE (UPM) UNIT (EX	CEPT 32BX300(INDIA, IRAN(SH.	AHAB),
22	4-156-944-51	BRACKET, SIDE JAC	CK	
<i>ø</i> 26	🔂 A-1782-846-A	BAA COMPL BX_WX	_32_26(SERVICE)(EXCEPT 32BX3	
۵3 🍯	▲ 1-811-058-15	LCD PANEL (S532TS	C) LTY320AP04	
(33)				
35	A-1744-833-A	H2LR MOUNT		
37	A-1744-834-A	H2LS MOUNT (AZ1/	A)	
38	X-2514-591-1	BEZEL (32) ASSY		

A-1773-304-A G2LE (IN) UNIT (32BX300(INDIA))

A-1752-778-A G2LE UNIT (32BX300(IRAN (SHAHAB)

A-1784-342-A BAA COMPL (BX_WX) (SERVICE)_ID (32BX300(INDIA))

(26) A-1750-430-A BAA COMPL BX_WX_32_26(SERVICE) (32BX300(IRAN(SHAHAB))

4-157-992-11 SUPPORT, PANEL



Screw: PART NO. DESCRIPTION REF. NO. 3111529 2-580-640-01 SCREW, +BVTP 4X16 TYPE 2 IT-3 151317 7-685-648-79 +BVTP 3X12 TYPE 2 IT-3 4930 4-159-298-01 SCREW +PSW M4X10 20242527 2-580-592-01 SCREW, +PSW M3X8 C. Boards, Panel and Bezel



• The reference number beside the part description in the illustration indicates the disassembly sequence.

38 Bezel (40) Assy

Parts List:		
REF. NO. PART NO.	DESCRIPTION	REMARK
 X-2546-141-2 X-2515-520-1 	BASE (ML3B) ASSY REAR COVER(40) ASSY	
 (a) A 2515 520 F (b) A 2515 520 F (c) A 2515 520 F	COVER, ECS	
(8) 4-167-326-01 (10 4-157-977-01	BRACKET, VESA (S) COVER, UNDER (37)	
10 4-169-308-01	COVER, UNDER (37)	
(12) X-2547-452-1 (14)(18) 1-858-364-11	SP BRACKET (40L) ASS	Y SCM)
10 X-2547-453-1	SP BRACKET (40R) ASS	Y
(21) A-1784-672-A (22) 4-156-944-51	G2HE (UPM) UNIT((EXCEP BRACKET, SIDE JACK	T 40BX400 (INDIA, UKRAINE, IRAN)
26 🗄 A-1784-340-A	A BAA COMPL (BX_FHD) (S	ERVICE)(EXCEPT 40BX300 (INDIA)) /
3 ▲ 1-811-060-15	LCD PANEL (S40TSP) L'	FY400HM01 IRAN(SHAHAB)
36 A-1744-834-A	A H2LS MOUNT (AZ1A)	
3 X-2514-592-1	BEZEL (40) ASSY	
€ 2.1) 4-171-686-0	2 NECK(ML3B)	D)
€ <u>4</u> -16/-483-	UI COVEK,NECK(ML3	(ם

A-1773-300-A G2HE (IN) UNIT (40BX400(INDIA, UKRAINE)

A-1752-780-A G2HE UNIT (40BX400(IRAN(SHAHAB)

A-1784-341-A BAA COMPL(BX_FHD) (SERVICE)_ID (40BX400(INDIA) A-1757-169-A BAA COMPL BX_FHD_40(SERVICE) (40BX400(IRAN(SHAHAB) 4-157-992-01 SUPPORT, PANEL

6-2. OTHER PARTS

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
6-2-1. K	LV-22BX30	0			* 1-837-559-11	FLAT FLEXIBLE CAI	BLE (FFC)
		ACCESSORIES AND	PACKING		1-837-735-11	CN9701(BAA)-TCON FLAT FLEXIBLE CAI CN9701(BAA)-TCON	(1) BLE (FFC) (1)
	1-569-088-33	ADAPTOR,CONVER 2P(22BX300(ARM,IN	SION IDONESIA,IRAN,MALAYSIA,	*****	******	*****	*****
	* 4-170-949-01	SAUDI ARABIA,SIN CARTON, INDIVIDU	ES, GAPORE,SOGUL)) AL (CON 22)			MISCELLANEOUS	
	* 4-170-948-01	CUSHION, LOWER (CON 22)		X-2342-530-2	BAG ASSY. FALL LO	CK BELT
	* 4-1/0-94/-01	DI LIG CONVERSION	UN 22)		2-580-604-01	SCREW, +PSW M4X2	0
	1-022-031-11	I LUO CONVERSION	(ADAI TOR(22DA300(IIVDIA))		2-580-663-02	SCREW, WOOD 3.8X	20
	1-821-926-11	PLUG CONVERSION (22BX300(TUNISIA,	I ADAPTOR SOUTH AFRICA))	*****	2-580-608-01	SCREW, +PSW M5X1	6
	4-168-830-11	MANUAL, INSTRUC (22BX300(ARM,IND) MALAYSIA NEW 70	TION (GB) (A,INDONESIA,IRAN,			REMOTE COMMANI	DER
		PHILI IPINES SAUDI	ARABIA SINGAPORE SOGUI			*****	****
	4-168-830-21	SOUTH AFRICA,TUI MANUAL, INSTRUC	NISIA) TION (CS)	*****	1-487-705-11	REMOTE COMMANI	DER (RM-GA019)
		(22BX300(ARM,IND	ONESIA,IRAN,MALAYSIA,	c o o V		٦	
	4-168-830-31	NIGERIA,PHILLIPIN SINGAPORE,SOGUL MANUAL INSTRUC	ES,SAUDI ARABIA, .)) TION (ARABIC)	0-2-2. N		ACCESSORIES AND	PACKING
	4-100-050-51	(22BX300(ARM,IND NIGERIA,PHILLIPIN	DNESIA,IRAN,MALAYSIA, ES,SAUDI ARABIA,			****************	****
	4-168-830-41	SINGAPORE,SOGUL MANUAL, INSTRUC	,,SOUTH AFRICA,TUNISIA)) TION (PERSIAN)		1-56-9-0-33	ADAPTOR, CONVER (26BX300(ARM,INDO	SION 2P DNESIA,IRAN,MALAYSIA,
		NIGERIA,PHILLIPIN	ES,SAUDI ARABIA,			SINGAPORE,SOGUL))))
		SINGAPORE,SOGUL	.))		* 4-170-956-01	CARTON, INDIVIDU.	AL (CON 26)
					* 4-170-954-01	CUSHION, LOWER (CYM26)
	4-168-830-51	MANUAL, INSTRUC	TION (RU)		* 4-170-953-01	CUSHION, UPPER (C	YM26)
		(22BX300(ARM,IND) NIGERIA,PHILLIPIN SINGAPORE SOGUI	IA,IRAN,MALAYSIA, ES,SAUDI ARABIA, . LIKRAINE))		4-168-830-11	MANUAL, INSTRUC (26BX300(ARM,INDI MALAYSIA NEW ZE	HON (GB) A,INDONESIA,IRAN, ALAND NIGERIA
	4-168-830-61	MANUAL, INSTRUC (22BX300(ARM,IND	TION (FR) ONESIA,IRAN,MALAYSIA,			PHILLIPINES,SAUDI SOUTH AFRICA,TUN	ARABIA,SINGAPORE,SOGUL, VISIA)
		NIGERIA, PHILLIPIN	ES,SAUDI ARABIA,		1 1 60 020 21		
	4-168-830-71	MANUAL, INSTRUC	.,SOUTH AFRICA,TUNISIA)) TION (UA)		4-168-830-21	(26BX300(ARM.IND)	HON (CS) DNESIA.IRAN.MALAYSIA.
		(22BX300(UKRAINE))			NIGERIA, PHILLIPIN	ES,SAUDI ARABIA,
	4-168-830-91	MANUAL, INSTRUC	TION (TH)			SINGAPORE,SOGUL))
	1 005 454 11	(22BX300(THAILAN	D))		4-168-830-31	MANUAL, INSTRUC	TION (ARABIC)
	1-837-454-11	(EXCEPT 22BX300(N	KD IEW ZEALAND, THAILAND)			(26BX300(ARM,INDC	JNESIA,IKAN,MALAYSIA, ES.SAUDI ARABIA.
		(,			SINGAPORE,SOGUL	,SOUTH AFRICA,TUNISIA))
	1-837-459-11	POWERSUPPLYCOR	D(WITHCONNECTOR)		4-168-830-41	MANUAL, INSTRUC	TION (PERSIAN)
	1 927 460 11	(22BX300(New Zealar	nd))			(26BX300(ARM,INDC	ONESIA,IRAN,MALAYSIA,
	1-837-460-11	22BX300(THAILAN	D(WITHCONNECTOR)			SINGAPORE SOGUI	ES,SAUDI AKABIA,
		(22DA500(IIIAILAI)	D))		4-168-830-51	MANUAL, INSTRUC	TION (RU)
******	*****	******	******			(26BX300(ARM,INDI NIGERIA,PHILLIPIN	A,IRAN,MALAYSIA, ES,SAUDI ARABIA,
		CONDECTOR			1 1 60 020 61	SINGAPORE,SOGUL	,UKRAINE))
		CONNECTORS *****			4-168-830-61	MANUAL, INSTRUC (26BX300(ARM,INDO NIGERIA.PHILLIPIN	HON (FR) DNESIA,IRAN,MALAYSIA, ES.SAUDI ARABIA.
	* 1-910-059-57	MAIN HARNESS				SINGAPORE,SOGUL	,SOUTH AFRICA,TUNISIA))
		(22BX300(INDIA),22	BX300(SOGUL,IRAN,				
		NIGERIA, SAUDI AR	ABIA,MALAYSIA,		4-168-830-71	MANUAL, INSTRUC	TION (UA)
		(THAILAND))	NDONESIA,PHILLIPINES),		4-168-830-91	MANUAL INSTRUC)) TION (TH)
		CN6200(BAA)-CN61:	50(GD1)-		+ 100 000-71	(26BX300(THAILANI	D))
		CN5600(BAA)-CN10)(H2LR)-		1-822-631-11	PLUG CONVERSION	ADAPTOR(26BX300(India))
		CN1(H2LS)CN4000(H	BAA)-SP(1)		1-821-926-11	PLUG CONVERSION	ADAPTOR
	* 1-910-800-01	MAIN HARNESS(22)	BX300(NEWZEALAND),		1 027 454 14	(26BX300(SOUTH AF	FRICA, TUNISIA)
		22BX300(RUSSIA),22 CN6200(BAA)-CN61: CN100(H2LR)-CN1/F	2BA300(SOUTH AFRICA)) 50(GD1)-CN5600(BAA)- 12LS)CN4000(BAA)-SP(1)		1-837-454-11	POWER-SUPPLY CO (EXCEPT 26BX300 (N	KD New Zealand, Thailand))

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
	1-837-459-11	POWERSUPPLYCO	RD(WITHCONNECTOR)		4-168-830-31	MANUAL, INSTRUCTI	ON(AR)
		(26BX300(New Zeal	and))			(32BX300((ARM,INDO)	NESIA, IRAN (SOEM), MALAYSIA,
	1-837-460-11	POWERSUPPLYCO	RD(WITHCONNECTOR)			NIGERIA, PHILLIPINES	,SAUDI ARABIA,
		(26BX300(Thailand))		4 169 920 41	SINGAPORE,SOGUL,SO	OUTH AFRICA, TUNISA)
******	*****	*****	********		4-168-830-41	(32BX300((ARM,INDO)	JN(PR) NESIA,IRAN(SOEM),MALAYSIA,
		CONNECTORS				NIGERIA, PHILLIPINES	,SAUDI ARABIA,
		*****			4-168-830-51	MANUAL, INSTRUCTI	ON(RU)
					1 100 000 01	(32BX300((ARM,INDO)	VESIA, IRAN (SOEM), MALAYSIA,
*	* 1-837-560-11	FLAT FLEXIBLE C	ABLE (FFC)			NIGERIA, PHILLIPINES	,SAUDI ARABIA,
		(CN9701(BAA)-TCO	DN(1))			SINGAPORE,SOGUL),(UKRAINE))
2	* 1-837-736-11	FLAT FLEXIBLE C.	ABLE (FFC)		4-176-337-11	MANUAL, INSTRUCTION 3	2BX300(IRAN))
*	× 1_910_059_59	CONNECTOR ASS	JN(1)) V 14P CN6202(G11 S)-INV(1)		4-108-830-01	(32BX300((APM INDO)	JN(FK) NESIA IRAN(SOEM)
*	* 1-910-059-58	MAIN HARNESS	1 HI CIU202(GIED) IIII(I)			MALAYSIA.NIGERIA.F	HILLIPINES.
		CN6200(BAA)-CN6	201(G1LS)-CN5600(BAA)-			SAUDI ARABIA,SINGA	PORE,SOGUL),
		CN100(H2LR)-CN1	(H2LS) CN4000(BAA)-SP(1)			(SOUTH AFRICA, TUNI	SIA))
		(26BX300(INDIA),2	6BX300(SOUTH AFRICA,		4-168-830-71	MANUAL, INSTRUCTI	ON(UA)
3	< 1 010 800 02	TUNISIA),26BX300	(THAILAND))		4 169 920 01	(32BX300(UKRAINE))	
	1-910-800-02	CN5600(BAA)-CN1	00(H2LR)-CN1(H2LS)		4-100-030-91	(32BX300(THAILAND))	
		CN4000(BAA)-SP(1))		4-168-830-81	MANUAL, INSTRUCTI	, ON(VN)
		(26BX300(NEW ZE	ALAND),26BX300(UKRAINE),			(32BX300(PHILLIPINES	S,VIETNAM))
		26BX300(SOGUL,II	RAN,NIGERIA,		1-822-631-11	PLUG CONVERSION A	DAPTOR(32BX300(INDIA))
		SAUDI ARABIA,M	ALAYSIA, SINGAPORE,		1 921 026 11	DI LIC CONVEDSION A	
		AKM,INDONESIA,I	PHILLIPINES))		1-821-920-11	(32BX300(SOUTH AFR)	DAPTOR (CATUNISIA))
******	*****	*****	*****		1-837-454-11	POWER SUPPLY CORE)
						(EXCEPT 32BX300(THA	AILAND)
		MISCELLANEOUS			1-837-460-11	POWER SUPPLY CORE	(WITH CONNECTOR)
						(32DA300(ITAILAND))
	X-2342-530-2	BAG ASSY, FALL L	OCK BELT	*****	*****	*****	******
	2-580-604-01	SCREW, +PSW M42	X20				
	2-580-663-02	SCREW, WOOD 3.8	X20			CONNECTORS	
	2-580-608-01	SCREW, +PSW M52	K16	*	1 010 050 62	CONNECTOR ASSV 14	DCN(A02)(C21 E) INV(1)
******	*****	*****	*****	*	¹⁻⁹¹⁰⁻⁰³⁹⁻⁰²	MAIN HARNESS	I CIN0402(02LL)-IIN V(I)
						CN6200(BAA)-CN6401(G2LE)-CN5600(BAA)-
		REMOTE COMMA	NDER			CN100(H2LR)-CN1(H2L	S)CN4000(BAA)-SP(1)
		* * * * * * * * * * * * * * * * * * * *	****	1	1-83/-561-11	FLAI FLEXIBLE CABL	E (FFC)
	1-487-705-11	REMOTE COMMA	NDER (RM-GA019)				
				******	*****	****	*****
*********	****************	***************************************	******			MISCELLANEOUS	
0-2-3. N		J				*****	
		ACCESSORIES AN	DPACKING		4-100-136-01	SHEET(CORE), C (32BX3	00(IRAN))
		*****	****		X-2342-530-2	BAG ASSY, FALL LOCH	K BELT
					2-580-608-01	SCREW, +PSW M5X16	
	1-569-008-33	ADAPTOR, CON	VERSION 2P		2-580-663-02	SCREW, +PSW M4A20 SCREW WOOD 3 8X20	
		(32BX300(ARM,INI	JONESIA,IRAN(SOEM),MALAYS NES SAUDI ADARIA	IA,			
		SINGAPORE SOGU	L).	*******	*****	*****	*****
		(PHILLIPINES, VIE	(NAM))				
2	4-170-960-01	CARTON, INDIVID	UAL (CON 32)			HEAT SINK *******	
	* 4 176 220 01	(EXCPT 32BX300(I	RAN(SHAHAB)))				
1	* 4-1/0-339-01 * 4-170-958-01	CUSHION LOWFR	(CYM32) (52BA500(IRAN(SF	ТАНАВ))	6-503-050-01	DI SBT80-06	
*	* 4-170-957-01	CUSHION, UPPER	(CYM32)		8-719-510-53	DIODE D4SB60L	
			()		6-552-205-11	TR TK15A50D	
	4-168-830-11	MANUAL, INSTRU	CTION(GB)		6-552-461-11	TR TK5A50D(S4SONY,	2)
		32BX300((ARM,INI	DIA,INDONESIA,	*****	*****	*****	****
		IKAN(SUEM),MAL	AT SIA, NIGERIA, PHILLIPINES,				
		SOUTH AFRICA.TU	JNISA),			REMOTE COMMANDE	R
		(PHILLIPINES, VIE	ΓNAM))			************	6 W
	4-168-830-21	MANUAL, INSTRU	CTION(CS)		1-487-705-11	REMOTE COMMANDE	R (RM-GA019)
		(32BX300((ARM,IN	DONESIA,IRAN(SOEM),MALAYS NES SAUDI ARARIA	SIA,	0, /00 11		
		SINGAPORE.SOGI	L))	******	*****	*****	*****
			·/				

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
6-2-4. K	LV-40BX40	0				CONNECTORS ********	
		ACCESSORIES ANI	D PACKING	3	* 1-910-059-67 * 1-837-731-11	CONNECTOR ASS FFC WITH CONNE	Y 14P CCTOR (CN9700(BAA)-TCON(1))
	1-569-033	ADAPTOR, CONVE (40BX400(ARM,INE SAUDI ARABIA,SO	RSION 2P DONESIA,IRAN,MALAYSIA, GUL,VIETNAM,PHILLIPINES)		* 1-910-059-66	MAIN HARNESS (CN6200(BAA)-CN CN100(H2LR)-CN1 40PX400 (SOCUL	6401(G2HE)-CN5600(BAA)- (H2LS), CN4000(BAA)-SP(1))
:	* 4-170-964-01 * 4-170-962-01 * 4-170-961-01 4-168-830-11	CARTON, INDIVID CUSHION, LOWER CUSHION, UPPER (MANUAL, INSTRU (400X400(APM INT	JAL (CON 40) (CYM40) CYM40) CTION(GB) ONESIA IDAN MALAYSIA	2	* 1-910-800-08	ARABIA,MALAYS INDOENSIA,VIETI MAIN HARNESS (CN6200(BAA)-CN	IAA, SINGAPORE, ARM, NAM, PHILLIPINES, THAILAND) 6401 (G2HE)-CN5600 (BAA)-
		NIGERIA,PHILLIPII SINGAPORE,SOGU	NES,SAUDI ARABIA, L,TUNISIA,VIETNAM))			CN100(H2LR)-CN1 40BX400(UKRAIN	(H2LS) CN4000(BAA)-SP(1)) E,TUNISIA)
	4-168-830-21	MANUAL, INSTRU	CTION(CS)	******	****	*****	*******
		(40BX400(ARM,INL NIGERIA,PHILLIPII SINGAPORE,SOGU	OONESIA,IRAN,MALAYSIA, NES,SAUDI ARABIA, L,VIETNAM))			MISCELLANEOUS	} *
	4-168-830-31	MANUAL, INSTRUC (40BX400(ARM,INE NIGERIA,PHILLIPII SINGAPORE,SOGU	UION(AR) OONESIA,IRAN,MALAYSIA, NES,SAUDI ARABIA, L.TUNISIA,VIETNAM))		X-2348-140-3 2-580-604-01	BAG ASSY, FALL I SCREW, +PSW M4	LOCK BELT X20
	4-168-830-41	MANUAL, INSTRU (40BX400(ARM,INE NIGERIA,PHILLIPII	CTION(PR) DONESIA,IRAN,MALAYSIA, NES,SAUDI ARABIA,	*****	2-580-663-02 2-580-608-01	SCREW, WOOD 3.8 SCREW, +PSW M5	3X20 X16
	4-168-830-51	SINGAPORE,SOGUL, VIETNAM)) MANUAL, INSTRUCTION(RU) (40BX400(ARM,INDONESIA,IRAN,MALAYSIA,				HEAT SINK ******	
	4-168-830-61	NIGERIA,PHILLIPI SINGAPORE,SOGU MANUAL, INSTRU 40BX400(ARM,IND NIGERIA,PHILLIPI SINGAPORE,SOGU	NES,URKAINE,SAUDI ARABIA, L,VIETNAM), CTION(FR)(ONESIA,IRAN,MALAYSIA, NES,UKRAINE,SAUDI ARABIA, L,TUNISIA,VIETNAM))		6-503-066-01 6-503-052-01 6-503-053-01 8-719-510-53 6-552-205-11	DI SF5K60M DI SG30SC4M DI STTH5L06FP DIODE D4SB60L TR TK15A50D	
	4-168-830-81	MANUAL, INSTRU (40BX400(ARM,INE NIGERIA PHILLIPII	CTION(VN) DONESIA,IRAN,MALAYSIA, NES SAUDI ARABIA		6-552-204-11	TR TK8A50D(40B)	۲۹۵۵)
	4-168-830-71	SINGAPORE,SOGU MANUAL, INSTRU (40BX400(UKRAIN)	L,VIETNAM), CTION(UA)	*****	*****	**************************************	**************************************
	4-168-830-91	MANUAL, INSTRU	CTION(TH)			******	*****
	1-821-926-11	(40BX400(THAILAI PLUG CONVERSIO (40BX400(TUNISIA	N ADAPTOR))		1-487-705-11	REMOTE COMMA	NDER (RM-GA019)
	1-822-631-11	PLUG CONVERSIO	N ADAPTOR(40BX400 (India))				
	1-837-454-11	POWER-SUPPLY CC (40BX400(India),40E SAUDIAARABIA,M INDONESIA,VIETN 40PU/U/EA INE	DRD X400(SOGUL,IRAN,NIGERIA, ALAYSIA,SINGAPORE,ARM, AM,PHILLIPINES), AMP X400(TUNISIA))				
	1-837-460-11	POWER SUPPLY CO (40BX400 (THAILA	DRD(WITHCONNECTOR) ND)				

SUPPLEMENT-1

AZ1-A CHASSIS

MODEL	<u>COMMANDER</u>	<u>DEST</u>	MODEL	COMMANDER	<u>DEST</u>
KLV-22BX300/1	RM-GA019	SOGUL, NIGERIA, SAUDI ARABIA	KLV-26BX300/1	RM-GA019	SOGUL, NIGERIA, SAUDI ARABIA
KLV-22BX300/3	RM-GA019	SOGUL,NIGERIA, SAUDI ARABIA	KLV-26BX300/3	RM-GA019	SOGUL,NIGERIA, SAUDI ARABIA

SUBJECT : NEW MODEL ADDITION

This supplement shows variant information for the new model (s). Other information remain the same as original issue.



KLV-22 BX300/1, BX300/3



KLV-26 BX300/1, BX300/3

Section 4 : Service Adjustments

4-4 : Hotel Mode Adjustment

- 4-4-1 : Preset "Test" Button on Remote Commander
 - 1. Press the following buttons in sequence on the Remote and keep pressed for 5 seconds.



Figure 1 : To Reset Test Button

2. Once completed, the below button operates as a TEST button.



Figure 2: TEST button

4-4-2 : Entering Hotel Menu Mode

1. While TV set in on standby, press the following sequence on the remote.



- 2. While the TV turns ON, the indication 'Hotel Mode Setting in process" appears on the top of the screen.
 - * It will appear only few seconds.

Hotel Mode Settings in process Figure 3 : Hotel Model Setting Message screen

- 3. Press "MENU" button on remote control.
- 4. The following menu appears on screen.
- 5. Press ∏ / ☆on the Remote and select Hotel Mode.



Figure 4 : Hotel Model Screen

- 6. Press "MENU" button on remote control.
- 7. Press $\prod / \uparrow \uparrow$ and press (-+) on remote control



Figure 5: Sample of screen

9. Press \prod / \bigcap or \square / \square on the Remote for adjustments.

10. REMINDER: PLEASE REFER TO EACH SETTING BEFORE CHANGING HOTEL MODE TO :"ON". ONCE TURNED "ON" THE HOTEL MODE WILL START.

Details of each setting is on next pages.

4-4-2 : Entering Hotel Menu Mode (continue)

11. Press Π for \Box / \Box and \ominus on the Remote for adjustments.

12. After done go to Functions settings \rightarrow Hotel Mode and select to" ON".

13. The TV set resets and restarts.

14. Now press "MENU" on the remote commander.

15. The following menu appears confirms the hotel mode in ON.



4-4-3 : Hotel Mode Settings Menu Tree



Display string	Options	Description	=Default Settings		
Hotel	On	This will turn the Hotel			
Mode	Off	mode on. Tip: This should be the last setting you do – once turned to "ON" the Hotel mode will start.			
TV/Remote Controls	Both Controls	Select whether you want to the TV to be controlled			
	Remote Only	(RC) or by both controls meaning the buttons on	Hotel Mode Of TV/Remote Controls Both Control		
	No Controls	the TV and the RC.	Disalay Key		
Display Key	Use	Select whether you want	Use Use		
	Not Use	info by the display key button on the RC. (Display Key = Info Key)	AC Power On Setting Unspecify Wide Mode Key Use		
AC Power	Unspecify	Select whether the TV will	Standby LED On		
On Setting	Always On	follow last power memory or always turn ON after AC Plug Off	Initialize Hotel Settings Export Hotel Settings		
Wide	Use	Select whether the screen	Figure: 8		
Mode Key	Not Use	format key can be used or not.			
Standby LED	On	Select whether you want			
	Off	or off during standby mode			
Initialize Hotel Settings	Start	All settings in Hotel Mode			
	Cancel	Go back to the default value			
Export Hotel Settings		Select this to export "Hotel Mode" settings done in the "Hotel Menu Mode" for cloning function			

4-4-4 : Menu items in Function Settings

Display string	Options		Description		=Default Settin	gs
Signal Source Settings	TV	Use / Not Use	Define which input source			
	HDMI 1/2/3	Use with Labels /Use Without Labels /Not Use	should be available during Hotel Mode. Note: The number of terminals vary by models.			
	Video 1/2	Use with Labels /Use Without Labels /Not Use				
	Component	Use with Labels /Use Without Labels /Not Use		Signal Source Settings Initial Input Initial TV Programme	Not	Use Use
	PC	Use with Labels /Use Without Labels /Not Use			Figure: 9	
Initial Input	Not Use		Define which			
	TV		should be the initial input			
	HDMI 1/2/3		source when the TV is turned on by a botel			
	Video 1/2		number of			
	Component					
	PC		terminals vary by models.			
Initial Analogue Programme	Not Use 0 - 199		Define which should be the initial analogue programme when analogue is selected.			

4-4-5 : Menu items in Signal Source Settings

Display string	Options	Description	=Default Settings		
Initial Volume	Off	Set the initial TV volume each time a			
	0-100	hotel customer turns the TV on.			
Maximum Volume	Off	Set the maximum possible volume for the TV set			
	0-100		Initial Volume Off		
Initial Wide Mode	Wide Zoom	Define the initial screen format each time a hotel customer turns the TV on.	Maximum Volume Off		
	Normal		Initial Wide Mode Original Value		
	Full		Initial Picture Mode Original Value		
	Zoom		Figure: 10		
	Original Value				
Initial Picture Mode	Vivid	Define the initial picture mode each time a hotel customer turns the TV on.			
	Standard				
	Custom				
	Original Value				

4-4-7 : Smart Cloning Functions (1)

(I) Exporting functions Before you export your Hotel TV settings,

- A) Make sure that all the settings including channel, picture, sound and Hotel Menu are correct.
- B) Prepare a blank USB memory. The USB memory does not require any special "tree structure".

It should best be completely blank.

1) Insert a blank USB memory into the USB slot.

2) Click on "Export Hotel Settings" in Function Settings.





3) The following message will appear:



Figure: 12

4) The following message will appear, when you have successfully exported the "Mother TV" settings to the USB memory.

Export completed.	

Note : Timer/Clock settings are not cloned

Figure: 13

(II) Importing functions

NOTE

Any settings done and exported from a "Mother TV" can only be imported on the <u>same series of TVs</u> (any size).

1) To copy the settings from the USB memory to "Child TVs", you must first put "Child TVs" into "Hotel Menu Mode" or "Hotel Mode".

2) Insert the prepared USB memory into a USB slot on a "Child TV".

3) AC Plug OFF the "Child TV" and then ON back again.

4) The "Child TV" will detect the USB memory and import the settings.

All three Picture Off/ Timer, Standby, Power Indicator will light up as below:



5) After a few seconds, only the Power Indicator remains lighted and the TV will show a blank screen. This shows you have successfully imported the settings to the "Child TV".

6) Then the TV automatically reboot in "Hotel Menu Mode".



Figure: 15

4-4-9 : Disabled Functions during Hotel Mode

No.	Functions	Normal Mode	Hotel Menu Mode	Hotel Mode
1	Scene Select			
2	Theatre Mode			
3	Store Display Mode			
4	Sync Menu	Enabled	Disabled	Disabled
5	PAP/PIP			
6	Demo Mode			
7	Favourites			

All the functions related to Menu operation, because Menu is disabled in Hotel Mode.

e.g.: FM Radio/USB photo/music/video, etc.

<Tools key>

During Hotel Mode, Tools key on a remote commander works for the settings of Language and Sleep Timer.

<Language Settings>

Language will follow default language settings selected in "Hotel Menu Mode". So if guests select other languages in "Hotel Mode" but when they perform RC Off/On or AC Plug Off/On, the language will change back to the default language settings selected in "Hotel Menu Mode".

4-4-10 : Exiting Hotel Mode Menu

1. While TV set is on standby, press the following on the remote commander



2. Press "Menu" and the following menu appears on screen.



Figure: 17

3. The menu shows in normal mode.



5-1-1 KLV-22 BX300/1, 22BX300/3, 26BX300/1, 26BX300/3
5-2-2. KLV-22BX300/1, 22BX300/3 (see page 14)





5-3. CIRCUIT BOARD LOCATION

(See Page 17)

5-3-1 KLV-22BX300/1, 22BX300/3

5-3-2 KLV-26BX300/1,26BX300/3



SECTION 6 DISASSEMBLY, EXPLODED VIEW AND OTHER PARTS

- 38-



REF. NO.	PART NO.	DESCRIPTION	REMARK
2	X-2514-989-2	BASE (S3B) ASSY	
2.1	4-158-356-01	NECK (S5)	
2.2	4-158-399-01	COVER, NECK (Sa	B)
6	X-2515-517-2	REAR COVER(22)	ASSY
$\overline{0}$	NOT USE FOI	R THIS MODEL	
8	4-127-133-01	PLATE, VESA	
10	4-157-865-02	COVER,UNDER(2	2)
12(16)	4-157-866-02	BRACKET, SPEAK	ER (22L/R)
(14)(18)	1-858-339-11	LOUDSPEAKER (4X10CM)
(18)	4-156-944-51	BRACKET, SIDE J	ACK
23 🔒	A-1782-846-A	BAA COMPL (BX	_WX) (SERVICE)(NORMAL/ HOTEL MODEL)
26	1-474-204-33	STATIC CONVER	TER(TV)-GD1-2A
30 🛆	1-811-070-11	LCD PANEL (A216	V3)
32	A-1744-833-A	H2LR MOUNT	,
34	A-1744-834-A	H2LS MOUNT (AZ	C1A)
(35)	X-2514-589-1	BEZEL (22) ASSY	·

(D) Hotel Assy :

1.1

* 1-910-057-37	CONNECTOR ASSY 6P CN001(R2)-CN5500(BA)
	/ CN001(R2)-CN5000(BAL)(1)
	/ CN001(R2)-CN5001(BAA)
A-1565-554-C	R2 MOUNT

6-1-2. KLV-26BX300/1, 26BX300/3 (See Page 19)



The reference number beside the part description in the illustration indicates the disassembly sequence.

Parts List:

DESCRIPTION REMARK REF. NO. PART NO. X-2546-140-2 BASE (M3B) ASSY 4-171-685-01 NECK (M3B) *4-167-482-01 COVER, NECK (M3B). X-2515-518-3 REAR COVER(26) ASSY NOT USE FOR THIS MODEL X-2549-334-1 COVER, UNDER (26) ASSY. X-2547-448-3 SP BRACKET (26L) ASSY 1-858-341-11 LOUDSPEAKER (4X10CM) (5.1) 4-157-968-02 BRACKET, SP (26R) 1-474-199-11 POWER UNIT 4-156-944-51 BRACKET, SIDE JACK A-1782-846-A BAA COMPL (BX_WX) (SERVICE) (NORMAL/HOTEL MODEL) ③ ▲ 1-811-071-11 LCD PANEL (A26V0) / 1-811-087-11 LCD PANEL(C26B3-05) A-1744-833-A H2LR MOUNT A-1744-834-A H2LS MOUNT (AZ1A) X-2514-590-1 BEZEL (26) ASSY

(D) Hotel Assy

1.1 * 1-910-057-37 CONNECTOR ASSY 6P (CN001(R2)-CN5500(BA)/ CN001(R2)-CN5001(BAA) / CN001(R2)-CN5000(BAL)(1)) 1.3 A-1565-554-C R2 MOUNT

6-2 OTHER PARTS

(SEE PAGE 22)

*

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
6-2-1.	KLV-22BX3	300/1. 22BX300/3		*******	*****	******	******
	 * 4-170-949-01 * 4-170-948-01 * 4-170-947-01 4-168-830-13 4-168-830-33 1-837-661-11 	ACCESSORIES AND ************************************	PACKING ********* AL (CON 22) CON 22) CON 22) TTION TTION TTION	*	1-837-560-11 *1-837-736-11 *1-910-800-40	CONNECTORS ************************************	ABLE 30P ON(1) ABLE)N(1) 6150(G1LS)- 00(H2LR)- (BAA)-SP(1)
******	*****	******	*******	*****	*****	******	*******
		CONNECTORS ****					
*	* 1-837-559-11 *1-837-735-11 *1-910-800-39	FLEXIBLE FLAT CAB (CN9701(BAA)-TCON FLAT FLEXIBLE CAB CN9701(BAA)-TCON(MAIN HARNESS (CN6200(BAA)-CN100(CN1(H2LS)CN4000(B/	LE 30P ((1) LE 1) 0(GD1)- H2LR)- AA)-SP(1)	****	X-2348-140-3 2-580-604-01 2-580-663-02	MISCELLANEOU ************************************	IS ** LOCK BELT 14X20 3.8X20 NDER
*******	*****	*****	******		1 407 705 11	*****	*****
		MISCELLANEOUS			1-48/-/05-11	KEMUTE COMMA	NDEK (KM-GA019)
	X-2348-140-3 2-580-604-01 2-580-663-02	BAG ASSY , FALL LC SCREW, +PSW M4X2 SCREW, WOOD 3.8X	OCK BELT 20 20	*****	*****	*****	*****
******	*****	******	*****				
		REMOTE COMMAND	ER				
	1-487-705-11	REMOTE COMMAND	ER (RM-GA019)				
6-2-2. Kl	LV-26BX30	0/1, 26BX300/3	****				
	l *	ACCESSORIES AND PAC	CKING ******				
*	 ⁴ 4-170-956-02 ⁴ 4-170-954-02 ⁴ 4-170-953-02 ⁴ 4-168-830-13 ⁴ 4-168-830-33 ⁴ 1-68-830-33 	CARTON, INDIVIDUA CUSHION, LOWER (C CUSHION, UPPER (C' MANUAL, INSTRUC' MANUAL, INSTRUC' POWER-SUPPLY COF	AL (CON 26) CYM26) YM26) FION (GB) FION (AR) RD (UK PLUG)				
	*						

SUPPLEMENT-2

AZ1-A CHASSIS

SUBJECT : Updated Section 3 (Troubleshooting) information

Page 8-9 in Service Manual

Section 3 TROUBLESHOOTING

3-1. Troubleshooting Power Problem

3-1-1.Flow Chart



3-1-2. NO POWER



3-1-3. DDCON SHEET





Change BAA Board

3-1-4. STANDBY LED BLINK

a) 3 times blinking



3-1-4. STANDBY LED BLINK

b) 4 times blinking



3-1-4. STANDBY LED BLINK

c) 5 times blinking



3-1-4. STANDBY LED BLINK

d) 6 times blinking



Check G Board output:

- a) G2** UNREG24V = +24.0V
- b) G5 PFC out Pin 5 CN6301 = +396.0V
- c) G1LS UNREG24V = +24.0V

For boards not mention above, please change board directly.

3-1-4. STANDBY LED BLINK

e) 7 times blinking



3-1-5. PANEL ID ERROR



3-2. Troubleshooting AUDIO Problem

3-2-1. FLOWCHART A



3-2-2. FLOWCHART B (Main Speaker No Sound)



3-2-3. FLOWCHART C (Monitor Out No Sound)



3-2-4. FLOWCHART D (HP OUT No Sound)



3-2-5. FLOWCHART E (Analog Audio Input No Sound)



3-2-6. FLOWCHART F (Analog RF No Sound)



3-2-7. FLOWCHART G (HDMI Audio No Sound)



3-2-8. FLOWCHART H (USB Audio input No Sound)



* Please refer to IM for supported USB audio format.

3-2-9. FLOWCHART I (3x Blinking For Audio Error)



KLV-22, 26, 32 BX300, 40 BX400 RM-GA019



3-3. Troubleshooting Video Problem

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3-3-1. TUNER PROBLEM



3-3-2. VIDEO 1 Problem



3-3-3 MONITOR OUT Problem



3-3-4. VIDEO 2 Problem



KLV-22, 26, 32 BX300, 40 BX400 RM-GA019

3-3-5. VIDEO 3 Problem



3-3-6. COMPONENT Problem



3-3-7. HDMI Problem



3-3-8. PC Problem



3-4. Troubleshooting IR Problem



3-5. Tact SW Problem

H2LS NO FUNCTION NG Check Wire Harness Change Wire Harness And connect Properly And Connector Connectivity? ΟK NG Check 3.3V Check 3.3V in JL5604 in PIN2, CN1 BAA Board OK OK *Check NG Change H2LS Board Pin1 Voltage Level in CN1 OK NG Change BAA Board

KEY	Voltage (average)	Voltage range
CH -	0.00V	0.0000V
CH +	0.38V	0.3421 – 0.4178V
Vol -	0.85V	0.7720 – 0.9403V
Vol +	1.30V	1.1747 – 1.4268V
Input	1.85V	1.6710 – 2.0229V
Menu	2.37V	2.1536 - 2.5988V
No Input	2.80V	2.8 – 3.3V

***VOLTAGE LEVEL FOR EACH PRESSED BUTTON**



Segment: 5-2

SUBJECT : Add CMI (Panel) information

This supplement applies to the models listed above. Other information remain the same as original issue and previous supplements.

ARM, Iran, India, Indonesia, Malaysia, Nigeria, Saudi Arabia, Singapore, SOGUL, Ukraine, South Africa, Thailand, Tunisia, Phillipines

Section 5 Diagram

(See page 11)

KLV-32BX300



KLV-32BX300

(Service Manual: see page 15, 20)

A. Boards, Frame, Panel			
6 9 0	REF.NO. PART NO. 1 A-1790-033-A 2 A-1784-668-A 3 Image: A-1782-846-A 4 4-199-310-01 5 4-199-308-01 6 4-199-309-01 7 4-199-307-01 8 Image: A-1782-846-A	DESCRIPTION TM MOUNT G2LE (UPM) UNIT BAA COMPL (BX_WX) (SE FRAME, SPINE (32C-B) FRAME, SPINE (32C-L) FRAME, SPINE (32C-R) FRAME, BOTTOM (32C) LCD PANEL (C315B5-L02)	REMARK RVICE)



C. SCREWS





DESCRIPTION REMARK

01 SCREW, +PSW M4X10 01 SCREW, +PSW M3X8
SUPPLEMENT-5AZ1-AMODEL
KLV-22BX301COMMANDER
RM-GA019DEST.
RUSSIAMODEL
KLV-32BX301COMMANDER
RM-GA019

RUSSIA

|

KLV-40BX301

RM-GA019

CHASSIS

<u>DEST</u>.

RUSSIA

RUSSIA

SUBJECT : New Model Addition

This supplement shows only variant information for the new model(s). Other information remains the same as in the original issue.

Please refer to next page for:

KLV-26BX301

1. Disassembly & Exploded View (Page 73 - 76)

RM-GA019

2. Other Parts (Page 77 - 78)

SECTION 6 DISASSEMBLY, EXPLODED VIEW AND OTHER PARTS

Caution:

- ${}^{\rm A}$ and shaded parts are critical for safety. Replace only with part number specified. parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced.
- Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
- (*) parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components. · Illustrations provided in this section might have slight difference from the actual sets. • The reference number besides the part description in the illustration indicates the disassembly sequence.
- · Lines that indicate parts are shown in blue in the illustration.

Note:

- · Only part number and description for service parts are shown in the parts list.
- Unplug connectors before disassembly.
- Refer Electrical Parts List section for connector part number.

6-1. DISASSEMBLY & EXPLODED VIEW (REFER PAGE 18) 6-1-1. KLV-22BX301



REMARK

	PART NO.	DESCRIPTION	REMAR
	X-2546-084-2	BASE (S3B) ASSY	
	*4-158-356-01	NECK (S5)	
	4-158-399-01	COVER, NECK (S3B)	
	X-2515-517-2	REAR COVER(22) ASSY	
	4-115-101-41	COVER, ECS	
	4-127-133-01	PLATE, VESA	
	4-157-865-02	COVER,UNDER(22)	
	4-157-866-03	BRACKET, SPEAKER (22L/R)	
	1-858-339-11	LOUDSPEAKER (4X10CM)	
	4-156-944-51	BRACKET, SIDE JACK	
I	A-1782-846-A	BAA COMPL (BX_WX) (SERVICE))	
	1-474-204-33	STATIC CONVERTER(TV)-GD1-2A	
	1-811-070-12	LCD PANEL (A216V3)	
	A-1744-833-A	H2LR MOUNT	
	A-1744-834-A	H2LS MOUNT (AZ1A)	
	X-2514-589-1	BEZEL (22) ASSY	

(D) Hotel Assy :

① * 1-910-057-37 CONNECTOR ASSY 6P CN001(R2)-CN5500(BA) / CN001(R2)-CN5000(BAL)(1) / CN001(R2)-CN5001(BAA)

A-1565-554-C R2 MOUNT

6-1-2. KLV-26BX301



The reference number beside the part description in the illustration indicates the disassembly sequence.

KLV-22, 26, 32 BX301, 40 BX401 RM-GA019

ST:		
PART NO.	DESCRIPTION	REMARK
2-2546-085-2	BASE (M3B) ASSY	
-171-685-01	NECK (M3B)	
4-167-482-01	COVER, NECK (M3B).	
-2515-518-3	REAR COVER(26) ASSY	
-115-101-41	COVER, ECS	
-2549-334-1	COVER, UNDER (26) ASSY.	
-2547-448-3	SP BRACKET (26L) ASSY	
-858-341-11	LOUDSPEAKER (4X10CM)	
-157-968-02	BRACKET, SP (26R)	
-474-199-12	STATIC CONVERTER (TV)	
-156-944-51	BRACKET, SIDE JACK	
-1782-846-A	BAA COMPL (BX_WX) (SERVICE	E) (NORMAL/HOTEL MODEL)
-811-071-11	LCD PANEL (A26V0) / 1-811-087-	11 LCD PANEL(C26B3-05)
-1744-833-A	H2LR MOUNT	
-1744-834-A	H2LS MOUNT (AZ1A)	
-2514-590-1	BEZEL (26) ASSY	
-157-992-01	SUPPORT, PANEL	

(D) Hotel Assy :

-910-057-37	CONNECTOR ASSY 6P
	CN001(R2)-CN5500(BA)
	/ CN001(R2)-CN5000(BAL)(1)
	/ CN001(R2)-CN5001(BAA)

A-1565-554-C R2 MOUNT

6-1-3. KLV-32BX301

Scr	ew:		
REI	F <u>. NO.</u>	PART NO.	DESCRIPTION
@@@@@ (3(1)(5) 4 9(3)(7) 9(3)(7)	2-580-640-01 2-580-592-01 2-580-595-01 7-685-648-79 4-159-298-01	SCREW, +BVTP 4X16 TYPE 2 IT-3 SCREW, +PSW M3X8 SCREW, +PSW M3X12 +BVTP 3X12 TYPE 2 IT-3 SCREW +PSW M4X10



• The reference number beside the part description in the illustration indicates the disassembly sequence.

Parts List:

© (1) (2) (2)

<u>REF. N</u>	O. PART NO.	DESCRIPTION	REMARK
2	X-2546-085-2	BASE (M5B) ASSY	
21	4-171-685-02	NECK (M3B)	
62	* 4-167-482-01	COVER, NECK (M	3B)
6	X-2515-519-1	REAR COVER (32)	ASSY
7	4-115-101-41	COVER,ECS	
8	NOT SUPPLY	BRACKET, VESA	S)
(10)	4-157-976-01	COVER, UNDER (3	32)
(10)	4-169-309-01	COVER, UNDER (3	32)/ 4-207-494-01.COVER, UNDER (32)
(12)	X-2547-450-2	SP BRACKET (32L) ASSY
(14)(18)	1-858-364-11	LOUDSPEAKER (1	2.5.4.5CM)
(16)	X-2547-451-2	SP BRACKET (32R) ASSY
21	A-1784-668-A	G2LE (UPM) UNIT	•
22	4-156-944-51	BRACKET, SIDE JA	ACK
26	A-1782-846-A	BAA COMPL (BX_	WX) (SERVICE)
33	⚠ 1-811-058-11	LCD PANEL (S532	TSC)
33	⚠ 1-811-072-11	LCD PANEL (A32)	/0) / 1-811-245-11.LCD PANEL (C315B5-L02)
35	A-1744-833-A	H2LR MOUNT	
37	A-1744-834-A	H2LS MOUNT (AZ	1A)
38	X-2514-591-1	BEZEL (32) ASSY	
32	4-157-992-01	SUPPORT, PANEI	-

(D) Hotel Assy :

910-057-37	CONNECTOR ASSY 6P
	CN001(R2)-CN5500(BA)
	/ CN001(R2)-CN5000(BAL)(1)
	/ CN001(R2)-CN5001(BAA)

(3) A-1565-554-C R2 MOUNT

6-1-4. KLV-40BX401

Screw:

REF. NO.	PART NO.	DESCRIPTION
3(1(15)29	2-580-640-01	SCREW, +BVTP 4X16 TYPE 2 IT-3
(1.5(13)(7)	7-685-648-79	+BVTP 3X12 TYPE 2 IT-3
(4.930)	4-159-298-01	SCREW +PSW M4X10
(2)242927	2-580-592-01	SCREW, +PSW M3X8



• The reference number beside the part description in the illustration indicates the disassembly sequence.

Parts List:

REF. NO. PART NO. DESCRIPTION REMARK 2 X-2546-086-2 BASE (ML5B) ASSY X-2515-520-4 REAR COVER(40) ASSY 6 7 4-115-101-41 COVER, ECS (8) NOT SUPPLY BRACKET, VESA (S) 4-157-977-01 COVER, UNDER (37) 4-169-308-01 COVER, UNDER (37) X-2547-452-2 SP BRACKET (40L) ASSY 1-858-364-13 LOUDSPEAKER (12.5X4.5CM) 1418 X-2547-453-2 SP BRACKET (40R) ASSY A-1784-672-A G2HE (UPM) UNIT 4-156-944-51 BRACKET, SIDE JACK A-1784-340-A BAA COMPL (BX FHD) (SERVICE) ③ ▲ 1-811-060-12 LCD PANEL (S40TSP)/1-811-075-11 LCD PANEL (A40V0) A-1744-833-A H2LR MOUNT A-1744-834-A H2LS MOUNT (AZ1A) X-2514-592-1 BEZEL (40) ASSY X-2548-117-3 BEZEL(CON40_R) ASSY X-2548-132-3 BEZEL(CON40 R) ASSY 4-171-686-02 NECK(ML3B) *4-167-483-01 COVER,NECK(ML3B) 4-157-992-01 SUPPORT, PANEL

(D) Hotel Assy :

① * 1-910-057-37 CONNECTOR ASSY 6P CN001(R2)-CN5500(BA) / CN001(R2)-CN5000(BAL)(1) / CN001(R2)-CN5000(BAA)

(3) A-1565-554-C R2 MOUNT

6-2. OTHER PARTS				
(see page 22)	DECODIDION		DESCRIPTION	
6-2-1 KLV-22BX3	DESCRIPTION 301	6-2-3 KLV-32BX3	BLOCKF HON	
	ACCESSORIES AND PACKING		ACCESSORIES AND PACKING	
	*******		*********	
* 4-181-943-02	CARTON, INDIVIDUAL (CON 22)	* 4-181-945-03	CARTON, INDIVIDUAL (CON32)	
* 4.178-536-01	CUSHION, LOWER (CON22)	* 4-178-540-01		
4-170-535-01 4-168-830-54		4-168-830-54	MANUAL INSTRUCTION	
*/1-838-528-11	POWER-SUPPLY CORD	*/1-838-528-11	POWER-SUPPLY CORD	
X-2348-140-3	BAG ASSY, FALL LOCK BELT	X-2348-140-3	BAG ASSY, FALL LOCK BELT	
****	***************************************			
	CONNECTORS			
	******		CONNECTORS	
* 1-837-735-11	FLAT FLEXIBLE CABLE (CN9701(BAA)-TCON(1))		******	
* 1-837-559-11	FLEXIBLE FLAT CABLE 30P (CN9701(BAA)-TCON(1))	* 1-910-800-50		
1-910-000-09	CN5600(BAA)-CN100(H2LR)-CN1(H2LS)	* 1 010 050 62		
	CN4000(BAA)-SP(1))	1-910-039-02	INV(1))	
***********************************		* 1-837-737-11	FLAT FLEXIBLE CABLE (CN9701(BAA)-TCON(1))	
		* 1-838-433-11	FLEXIBLE FLAT CABLE 30P (CN802(TM)-	
			TCON(1))	
7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT	* 1-838-432-11	FLEXIBLE FLAT CABLE 30P (CN9701(BAA)- CN800(TM)(1))	
4-159-298-01	SCREW, +PSW M4X10	* 1_837_561_11		
2-580-604-01	SCREW, +PSW M4X20	1-037-301-11		
2-580-608-01	SCREW, +PSW M5X16	* 1-910-800-44	MAIN HARNESS	
2-360-003-02		* 1-910-800-49	MAIN HARNESS	
		********	*****	
1-487-705-11	REMOTE COMMANDER (RM-GA019)		MISCELLANEOUS	
*****	*****		*****	
		4-199-307-01	FRAME, BOTTOM (32C)	
6-2-2 KI V-26BX3	301	4-199-310-01	FRAME, SPINE (32C-B) FRAME SPINE (32C-L)	
0 2 2. 1127 200/10	ACCESSORIES AND PACKING	4-199-309-01	FRAME, SPINE (32C-R)	
	******	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT	
* 4-181-944-02	CARTON, INDIVIDUAL (CON 26)	6-552-205-11	TR TK15A50D	
* 4-178-538-01	CUSHION, LOWER (CON26)	6-552-461-11	TR TK5A50D(S4SONY,Q)	
* 4-178-537-01	CUSHION, UPPER (CON26)	6-503-050-01	DI SB180-06LS-S	
* 1-838-528-11	POWER-SUPPLY CORD	4-382-854-11	SCREW (M3X10) P_SW (+)	
X-2348-140-3	BAG ASSY, FALL LOCK BELT	7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3	
********	***************************************	2-580-604-01	SCREW, +PSW M4X20	
	CONNECTORS	2-580-608-01	SCREW, +PSW M5X16	
	*******	2-580-626-01	SCREW, SP 4-40 UNC	
* 1-910-059-59	CONNECTOR ASSY 14P (CN6202(G1LS)-INV(1))	2-560-663-02	SCREW, WOOD 3.8X20	
* 1-83/-//1-11	FLAT FLEXIBLE CABLE (CN9701(BAA)-TCON(1)) FLEXIBLE FLAT CABLE 30P (CN9701(BAA)-TCON(1))	*****	*****	
* 1-910-800-40	MAIN HARNESS (CN6200(BAA)-CN6201(G1LS)-			
	CN5600(BAA)-CN100(H2LR)-CN1(H2LS) CN4000(BAA)-		REMOTE COMMANDER	
	SP(1))	4 407 705 44		
******		1-407-705-11	REMOTE COMMANDER (RM-GAUT9)	
		****	*****	
7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT			
2-580-602-01	SCREW, +PSW M4X12			
2-580-604-01	SCREW, +PSW M4X20			
2-580-608-01	SCREW, +PSW M5X16 SCREW, WOOD 3 8X20			
2-000-000-02				
~~~~~ <i>&amp;********************************</i>				
1-487-705-11	REMOTE COMMANDER (RM-GA019)			
	· · · ·			

F	PART NO.	DESCRIPTION			
6-	6-2-3. KLV-32BX301				
		ACCESSORIES AND PACKING			
		*******************			
*	4-181-945-03	CARTON, INDIVIDUAL (CON32)			
*	4-178-540-01	CUSHION, LOWER (CON32)			
*	4-178-539-01	CUSHION, UPPER (CON32)			
_	4-168-830-54	MANUAL, INSTRUCTION			
*/	1-838-528-11	POWER-SUPPLY CORD			
	X-2348-140-3	BAG ASSY, FALL LOCK BELT			
***	*******	***************************************			
		CONNECTORS			
*	1-910-800-50				
	1-910-000-00	(CN6402(G2LE)-INV(1))			
*	1-910-059-62	CONNECTOR ASSY 14P (CN6402/G2LE/G2ME)-			
	1010 000 02	INV(1))			
*	1-837-737-11	FLAT FLEXIBLE CABLE (CN9701(BAA)-TCON(1))			
*	1-838-433-11	FLEXIBLE FLAT CABLE 30P (CN802(TM)-			
		TCON(1))			
*	1-838-432-11	FLEXIBLE FLAT CABLE 30P (CN9701(BAA)-			
		CN800(TM)(1))			
*	1-837-561-11	FLEXIBLE FLAT CABLE 30P (CN9701(BAA)-			
		TCON(1))			
*	1-910-800-44	MAIN HARNESS			
*	1-910-800-49	MAIN HARNESS			
***	*****				

#### MISCELLANEOUS *****

4-199-307-01	FRAME, BOTTOM (32C)
4-199-310-01	FRAME, SPINE (32C-B)
4-199-308-01	FRAME, SPINE (32C-L)
4-199-309-01	FRAME, SPINE (32C-R)
7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT
6-552-205-11	TR TK15A50D
6-552-461-11	TR TK5A50D(S4SONY,Q)
6-503-050-01	DI SBT80-06LS-S
8-719-510-53	DIODE D4SB60L
4-382-854-11	SCREW (M3X10), P, SW (+)
7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3
2-580-604-01	SCREW, +PSW M4X20
2-580-608-01	SCREW, +PSW M5X16
2-580-626-01	SCREW, SP 4-40 UNC
2-580-663-02	SCREW, WOOD 3.8X20

#### REMOTE COMMANDER *****

	PART NO.	DESCRIPTION	
6-2	2-3. KLV-40BX301		
		ACCESSORIES AND PACKING	
	X-2348-140-3	BAG ASSY, FALL LOCK BELT	
*	4-181-946-03	CARTON, INDIVIDUAL (CON40)	
*	4-178-542-01	CUSHION, LOWER (CON40)	
*	4-178-541-01	CUSHION, UPPER (CON40)	
	4-168-830-54	MANUAL, INSTRUCTION	
*/!	1-838-528-11	POWER-SUPPLY CORD	
****	***************************************		

CONNECTORS

* * *	1-910-059-67 1-837-568-11 1-837-731-11 1-910-800-47	CONNECTOR ASSY 14P (CN6402(G2HE)-INV(1)) FFC WITH CONNECTOR 51P (CN9700(BAA)-TCON(1)) FFC WITH CONNECTOR (CN9700(BAA)-TCON(1)) MAIN HARNESS (CN6200(BAA)-CN6401(G2HE)- CN5600(BAA)-CN100(H2LR)-CN1(H2LS) CN4000(BAA)- SP(1))
		SP(1))

# MISCELLANEOUS

6-503-066-01	DI SF5K60M
6-503-052-01	DI SG30SC4M
8-719-510-53	DIODE D4SB60L
7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT
6-552-205-11	TR TK15A50D
7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3
2-580-604-01	SCREW, +PSW M4X20
2-580-608-01	SCREW, +PSW M5X16
2-580-626-01	SCREW, SP 4-40 UNC
2-580-663-02	SCREW, WOOD 3.8X20
4-382-854-11	SCREW (M3X10), P, SW (+)

# REMOTE COMMANDER

1-487-705-11 REMOTE COMMANDER (RM-GA019)

# SUPPLEMENT-7

(

Segment: 5-2

<u>Model</u>	<u>Commander</u>	<u>Dest</u>
KLV-22BX310	RM-GA019	Sogul (Nigeria, Kuwait, Kenya)
KLV- <mark>26</mark> BX310	RM-GA019	Sogul (Nigeria, Kuwait, Kenya)
KLV- <mark>32</mark> BX310	RM-GA019	Sogul (Nigeria, Kuwait, Kenya)

SUBJECT : Add Model Names

ī

New model names above have been added to this manual. Kindly refer model BX300( SOGUL) for their contents.

# SONY

4-168-830-11(2)

# LCD Colour TV

**Operating Instructions** 

Start-up Guide

Operating the TV

Using Optional Equipment

Using MENU Functions

Additional Information

# BRAVIA

KLV-40BX400/40BX401/32BX300/32BX301/26BX300/26BX301/22BX300/22BX301

#### Introduction

Thank you for choosing this Sony product. Before operating the TV, please read this manual thoroughly and retain it for future reference.

The illustrations used in this manual are of the KLV-32BX300 unless otherwise stated.

#### Notice for customers in South Africa

The Euro/South Africa converter plug should be fitted as follows.

- 1 Insert the power supply or CEE7 plug in to the converter plug.
- 2 Use an appropriate screwdriver to attach the screw tightly without damaging the screw head.



**3** TEST: Grip the converter plug, and pull the VDE cord set/transformer to ensure it is fully secure, if not then increase the torque setting and further tighten. Re-test.



The converter plug is now ready for use.

#### Notice for customers in India

Attach the supplied plug adaptor.



#### **Trademark information**

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- "BRAVIA" and BRAVIA are trademarks of Sony Corporation.



# Notes for Australia and New Zealand model

This product is ENERGY RATING qualified in the "Home" mode. ENERGY RATING is a programme designed to promote energy efficient products and practices.

- When the TV is initially set up, it is designed to meet ENERGY RATING requirements while maintaining optimum picture quality.
- Changes to certain features, settings and functionalities of this TV (e.g. Picture/Sound and Eco settings) can slightly change the power consumption.

Depending upon such changed settings, the power consumption may vary which possibly could exceed the stated energy rating. To reset the TV to ENERGY RATING qualified settings, select "Home" mode from the initial set-up procedure in "Factory Settings" under the "Set-up" menu.

#### **IMPORTANT INFORMATION**

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

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### **Additional Information**

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Before operating the TV, please read "Safety information" (page 7). Retain this manual for future reference.

# Start-up Guide

# Checking the accessories

Stand (1) and screws (7) (For KLV-40BX400/ KLV-40BX401/KLV-32/26BX300/KLV-32/26BX301) Stand (1) and screws (6) (For KLV-22BX300/ KLV-22BX301) Remote RM-GA019 (1) Size AAA batteries (R03 type) (2)

#### To insert batteries into the remote



# 1: Attaching the stand

- Refer to the supplied stand leaflet for proper attachment for some TV models.
- KLV-40BX400/KLV-40BX401/KLV-32/ 26BX300/KLV-32/26BX301



KLV-22BX300/KLV-22BX301



- Fix the TV to the stand according to the arrow marks
   that guide the screw holes using the supplied screws.
  - This TV is very heavy, so two or more people should place the TV onto the stand.
  - If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m (15 kgf·cm).
  - Ensure the AC power cord is away from screw holes during stand installation to avoid damage to the AC power cord.

# 2: Connecting an antenna/ cable/VCR

Connecting cables are not supplied.

#### Connecting an antenna/cable



Connecting an antenna/cable and VCR



# 3: Preventing the TV from toppling over



- 1 Install a wood screw (4 mm in diameter, not supplied) in the TV stand.
- 2 Install a machine screw (M4  $\times$  16, not supplied) into the screw hole of the TV.
- **3** Tie the wood screw and the machine screw with a strong cord (not supplied).
- Y An optional Sony support belt kit is used to secure the TV. Contact your nearest Sony service centre to purchase a kit. Have your TV model name ready for reference.

# 4: Performing the initial set-up



- * The shapes of AC power plug and AC power outlet differ depending on the region.
- **When the TV is in standby mode (the  $\bigcirc$  (standby) indicator on the TV front panel is red), press  $\checkmark \bigcirc$  on the remote to turn on the TV.

3 Language Select language. <u>فلامی</u> <u>ماریمی</u> <u>تاریمی</u> <u>تاری</u>

Follow the instructions on the screen.

**"Location":** Select "Home" for the best TV settings to use the TV in the home.

"**Programme Sorting":** If you want to change the order of channels, follow the steps in "Programme Sorting" (page 23).

- You can also tune channels manually (page 23).
  - Language options vary depending on model.

### Watching TV

- **1** Press  $\bigcirc$  on the TV to turn on the TV.
- 2 Press the number buttons or **PROG +/-** to select a TV channel.
- **3** Press  $\checkmark$  +/- to adjust the volume.

# Detaching the stand from the TV

- ∠ Do not remove the stand for any reason other than to wall-mount the TV.
- KLV-40BX400/KLV-40BX401/KLV-32/ 26BX300/KLV-32/26BX301



KLV-22BX300/KLV-22BX301



# Safety information

#### Installation/Set-up

Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

#### Installation

- The TV set should be installed near an easily accessible AC power outlet.
- Place the TV set on a stable, level surface to avoid it from falling down and cause personal injury or damage to the TV.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  - KLV-40BX400/KLV-40BX401/ KLV-32BX300/KLV-32BX301: Wall-mount bracket SU-WL500 or SU-WL50B
- KLV-26/22BX300/KLV-26/22BX301: Wall-mount bracket SU-WL100
- Be sure to use the screws supplied with the Wall-mount bracket when attaching the mounting hooks to the TV set. The supplied screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.

The diameter and length of the screws differ depending on the Wall-mount bracket model.

Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.

8mm - 12mm

Screw (supplied with the Wall-mount bracket)

Mounting Hook

 Hook attachment on rear of TV set

#### Transporting

- Before transporting the TV set, disconnect all cables.
- Two or more people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown below. Do not put stress on the LCD panel.

KLV-40B

/ / / KLV-26/22BX300/ KLV-26/22BX301 KLV-40BX400/ KLV-40BX401/ KLV-32BX300/ KLV-32BX301



- When lifting or moving the TV set, hold it firmly from the bottom.
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack itusing the original carton and packing material.

#### Ventilation

- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

#### Installed on the wall



Leave at least this space around the set.

#### Installed with stand



Leave at least this space around the set.

- To ensure proper ventilation and prevent the collection of dirt or dust:
- Do not lay the TV set flat, install upside down, backwards, or sideways.
- Do not place the TV set on a shelf, rug, bed or in a closet.
- Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
- Do not install the TV set as shown below.

#### Air circulation is blocked.



#### AC power cord

Handle the AC power cord and outlet as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- The shape of AC power plug, which is supplied with the TV set, varies depending on the regions. Be sure to connect the appropriate supplied AC power cord with the plug that fits into the AC power outlet.
- Use only Sony supplied AC power cords, not those of other brands.
- Insert the plug fully into the AC power outlet.
   Operate the TV set on a 110-240 V AC supply only. (New Zealand, South Africa
- and Tunisia only: 220-240 V AC)
  When wiring cables, be sure to unplug the AC power cord for your safety and take care not to catch your feet on the cables.
- Disconnect the AC power cord from the AC power outlet before working on or moving the TV set.
- Keep the AC power cord away from heat sources.
- Unplug the AC power plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

#### Notes

- Do not use the supplied AC power cord on any other equipment.
- Do not pinch, bend, or twist the AC power cord excessively. The core conductors may be exposed or broken.
- Do not modify the AC power cord.
- Do not put anything heavy on the AC power cord.
- Do not pull on the AC power cord itself when disconnecting the AC power cord.
- Do not connect too many appliances to the same AC power outlet.
- Do not use a poor fitting AC power outlet.

#### **Prohibited Usage**

Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

#### Location:

Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

#### **Environment:**

Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

#### Situation:

Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from AC power outlet and antenna during lightning storms.

Continued

#### **Broken pieces:**

- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the AC power cord. Otherwise electric shock may result.

#### When not in use

- If you will not be using the TV set for several days, the TV set should be disconnected from the AC power for environmental and safety reasons.
- As the TV set is not disconnected from the AC power when the TV set is just turned off, pull the plug from the AC power outlet to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

#### For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

# If the following problems occur...

**Turn off** the TV set and unplug the AC power cord immediately if any of the following problems occur.

Ask your dealer or Sony service centre to have it checked by qualified service personnel.

#### When:

- AC power cord is damaged.
- Poor fitting of AC power outlet.
   TV set is damaged by being dropped, hit or having something thrown at it.
- Any liquid or solid object falls through openings in the cabinet.

#### About LCD Monitor Temperature

When the LCD Monitor is used for an extended period, the panelsurrounds become warm. You may feel hot whentouching there by the hand.

# Precautions

#### Viewing the TV

• View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.

#### LCD Screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal. Some fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for disposal.

# Handling and cleaning the screen surface/cabinet of the TV set

Be sure to unplug the AC power cord connected to the TV set from AC power outlet before cleaning.

To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/ cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Do not spray water or detergent directly on the TV set. It may drip to the bottom of the screen or exterior parts, and may cause a malfunction.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such asalcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result indamage to the screen surface and cabinet material.
- Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

#### **Optional Equipment**

Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

# (Caution about handling the remote control) Notes

- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

### Overview of the remote



Ϋ́ • The number 5, PROG + and AUDIO buttons have tactile dots. Use the tactile dots as references when operating the TV.

● I/⁽⁾ – TV standby

Press to turn the TV on or to switch to standby mode.

BRAVIA Svnc

►/■/◀◀/►►/I◀◀ /►►I: You can operate the BRAVIA Sync-compatible equipment that is connected to the TV. Some other buttons on the remote control may also operate BRAVIA Sync equipment.

**SYNC MENU:** Press to display the BRAVIA Sync Menu and then select connected HDMI equipment from "HDMI Device Selection".

The following options can be selected from BRAVIA Sync Menu:

"Device Control": Use the "Device Control" menu to operate equipment that is compatible with Control for HDMI. Select options from "Home (Menu)",

"Options" and "Content List" to operate the equipment. "Speaker": Selects "TV Speaker" or "Audio System" to output the TV's sound from the TV speakers or connected audio equipment.

"TV Control": Use the "TV Control" menu to operate the TV from the "MENU" or "TOOLS" menu.

"Return to TV": Selects this option to return to TV programme. THEATRE: You can set Theatre mode to on or off. When Theatre mode is set to on, the optimum sound quality (if the TV is connected with an audio system using an HDMI cable) and picture quality for film-based contents are automatically set.

- If you turn the TV off, Theatre mode is also turned off.
  - When you change the "Scene Select" setting, Theatre mode turns off automatically. "Control for HDMI" (BRAVIA Sync) is only available with the connected Sony
  - equipment that has the BRAVIA Sync or BRAVIA Theatre Sync logo or is compatible with Control for HDMI.

#### 🕄 🌐 – Wide Mode

Changes the picture size. Press repeatedly to select the desired wide mode (page 10).

#### ♡ – Favourite list 4

Press to display or exit the Favourite list that you have specified. You can store up to 10 channels and/or external inputs in your Favourite list.

#### ⊕ / ? – Info / Text reveal

- · Displays information. Press once to display information about the programme/ input you are viewing. Press again to remove the display from the screen.
- In Text mode: Reveals hidden information (e.g. answers to a quiz).

#### 6 ☆/☆/☆/☆/ → - Item select / Enter

- Selects or adjusts items. Confirms selected items.
- When playing a photo file: Press ⇔ to select the previous file. Press ⇒ to select the next file.

When playing a music/video file: Press  $\oplus$  to pause/start the playback. Press and hold ⇔/⇔ to fast forward/fast reverse, then release the button at the point where you want to resume playback. Press & to start playback from the beginning of the current file. Press ∛ to go to the next file.

#### TOOLS

Press to display a list that contains shortcuts to some setting menus. The listed options vary depending on the current input and content.

#### MENU MENU

Displays or cancels the menu.

#### O Coloured buttons

When the coloured buttons are available, an operation guide appears on the screen.

#### Number buttons

- · Selects channels. For channel numbers 10 and above, enter the next digit quickly (page 23).
- In Text mode: Enters the three digit page number to select the page.
- ① C Previous channel
- Returns to the previous channel or input watched (for more than 15 seconds).

#### AUDIO – Dual Sound (page 21)

- B PROG +/-/■/
  - Selects the next (+) or previous (-) channel.
  - In Text mode: Selects the next ( ) or previous () page.

#### 

- Adjusts volume.
- 🚯 🕸 Mute

Press to mute the sound. Press again to restore the sound.

Continued **9** GB



In Text mode: Displays Text broadcast.

Each time you press (a), the display changes cyclically as follows:

Text  $\rightarrow$  Text over the TV picture (mix mode)  $\rightarrow$  No Text (exit the Text service)

#### **D** RETURN

- Returns to the previous screen of any displayed menu.
- When playing a photo/music/video file: Press to stop the playback (the display returns to the file or thumbnail view).

#### SCENE – Scene Select mode

Press to display the "Scene Select" menu. When you select the desired scene option, the optimum sound and picture quality for selected scene are automatically set. The options you can select may vary. Unavailable options are greyed out. "Cinema": Delivers theatre-like picture and dynamic sound.

"Sports": Delivers realistic picture with surround sound like in a stadium. "Photo": Delivers picture that reproduces the texture and colour of a printed

photo. "Music": Delivers dynamic and clear sound effects like at a concert.

"Game": Delivers the best picture and sound quality for fullest game playing enjoyment.

"Graphics": Delivers clearer detailed pictures to reduce fatigue for prolonged viewing

"General": Current user settings.

"Auto": Delivers optimum picture and sound quality which is automatically set according to input source. There may not be any effect depending on the connected equipments.

When you set Theatre mode (page 9) to on, the "Scene Select" setting switches to "Cinema" automatically.

1 - Twin Picture / PIP (page 14)

#### 🙆 🗆 – TV mode

Exit Text mode, or switches to a TV display when displaying external input.

#### ④ →)/ → Input select / Text hold

- Displays the connected equipment list and selects the input source (page 13).
- In Text mode: Holds the current page.

#### To change the Wide Mode

#### For TV, Video, Component or HDMI (except PC input)

Wide Zoom*	Enlarges the centre portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.
Normal	Displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.
Full	Stretches the 4:3 picture horizontally to fill the 16:9 screen.

* Parts of the top and bottom of the picture may be cut off.

 You cannot select "Normal" for HD signal source pictures.

#### PC or HDMI PC Input (PC timing)

Normal	Displays the picture in its original pixel size. Bars are shown at the top, bottom, and both sides for small picture.
Full 1	Stretches the original picture to fill the screen vertically, keeping its original horizontal-to-vertical aspect ratio.
Full 2	Stretches the Full 1 picture horizontally to fill the 16:9 screen.

 Some options may not be available depending on the PC input signal.

### Overview of the TV buttons and indicators





#### 1 🕛 – Power

Press to turn the TV on or to switch to standby mode.

To disconnect the TV from the AC power completely, pull the plug from the AC power outlet.

#### **2** PROG +/-/↑/↓

- Selects the next (+) or previous (-) channel.
- In TV menu: Moves through the options up (♠) or down (●).

#### 3 ∠ +/-/→/←

- Increases (+) or decreases (-) the volume.
- In TV menu: Moves through the options right (→) or left (→).

#### ④ →/ → – Input select / Enter

- Displays the connected equipment list and selects the input source (page 13).
  In TV menu Selects the menu or option, and
- In TV menu: Selects the menu or option, and confirms the setting.

#### 6 MENU

Displays or cancels the menu.

#### 6 🖪 – Remote sensor

Receives IR signals from the remote.

#### ⑦ ⊠/⊕ – Picture Off / Timer indicator

- Lights up in green when you select "Picture Off" (page 26).
- Lights up in amber when you set the timer (page 25) or "Picture Frame" (page 17).

#### **③** ⁽¹⁾ − Standby indicator

Lights up in red when the TV is in standby mode.

#### **9** I – Power indicator

- Lights up in green when the TV is turned on.
- Flashes while the remote is being operated.
- Make sure that the TV is completely turned off before unplugging the AC power cord. Unplugging the AC power cord while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

# **Connecting optional equipment**

You can connect a wide range of optional equipment to your TV.



### Viewing pictures from the connected equipment

Turn on the connected equipment, then press - (2) to display the connected equipment list. Press  $2/\sqrt{2}$  to select the desired input source, then press  $\oplus$ . (The highlighted item is selected if 2 seconds pass without any operation after pressing  $2/\sqrt{2}$ .) When the input source is set to "Skip" in the "Video Labels" under the "AV Set-up" menu (page 25), that input is greyed out in the list.

Ŷ • Press - ∑/ → on the TV to display the connected equipment list and select the desired input source. You can also press ☆/ ♦ to select the desired input source. Then wait for 2 seconds to display the selected input source.

Jacks/	Description
Input symbol on screen	
AE	Connect to the video jack ( → 1 or - )2, and the audio jacks ( → 1 or - )2. If you connect mono equipment, connect to the L(MONO) jack ( → 1 or -)2. When using the video jack ( → 1 and audio jack ( → 1 as output jacks, select "Output" in the "Video 1 Input/Output" menu (page 25). Connect to the video output jack ( → 1 to record the image from the TV. Connect to the audio output jacks ( → 1 to record the sound from the TV on DVD recorder or VCR. To turn off the sound of the TV speakers, set "Speaker" to "Audio System" (page 21).
<ul> <li>E -⊕/-&gt; or -&gt; 3</li> <li>-&gt; Component or</li> <li>-&gt; Video 3</li> </ul>	Connect to the component jacks and the audio jacks - , . For better picture quality, component connection is recommended if your DVD player has a component video output. When using the component video jack - , as the video jack - , select "Video 3" in the "Video 3/Component Input" menu (page 25). ✓ You cannot use the component video jack - at the same time.
<ul> <li>HDMI IN 1 or 2</li> <li>→ HDMI 1 or</li> <li>→ HDMI 2</li> </ul>	<ul> <li>Connect to the HDMI IN 1 or 2 jack if the equipment has an HDMI jack. The digital video and audio signals are input from the equipment. In addition, when you connect the equipment that is compatible with Control for HDMI, communication with the connected equipment is supported. See page 26 to set up this communication.</li> <li>If the equipment has a DVI jack, connect the DVI jack to the HDMI IN 2 jack through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out jack to the PC/HDMI 2 AUDIO IN jack in the PC IN jacks (the PC/HDMI 2 AUDIO IN jack is used as the audio in jack for both the PC IN and HDMI IN 2 jacks).</li> <li>If the HDMI jacks only support the following video inputs: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p and 1080/24p.</li> <li>The HDMI jacks can support PC timing in HDMI PC mode. See page 22 for supported PC input signal.</li> <li>Be sure to use only an authorized HDMI cable bearing the HDMI logo. We recommend that you use a Sony HDMI cable (high speed type).</li> </ul>
D PC IN -⊕/-€ -€ PC	Connect to the PC IN $-$ jack and the audio jack $-$ It is recommended to use a PC cable with ferrite core.
Fţ	You can enjoy photo/music/video files stored in a Sony digital still camera, camcorder or USB storage device (page 17).

# **Viewing Twin Picture**

You can view two pictures (in Component and HDMI input mode) on the screen simultaneously. Connect the optional equipment (page 12), and make sure that images from the equipment appear on the screen (page 13).

#### 1 Press ①.

Two pictures are displayed simultaneously.



Right Window

Twin Picture AvailabilityIn Left WindowIn Right WindowComponent<br/>HDMI 1/2 (except PC input<br/>mode)TV programme or<br/>Video 1/2/3

- **2** Press  $\Rightarrow \Rightarrow$  to select active picture.
- **3** In right window, you can select the TV channel or video input by pressing **TOOLS** and select "Sub window".

To return to single picture mode Press ⊕ **①**, **RETURN** or select "Single Picture" from Tools menu.

- ✓ You cannot use the component video jack → and the video jack → 3 at the same time.
  - · You cannot change the size of the pictures.
  - In Twin Picture mode, as picture size reduced, this may decrease picture smoothness.
- - You can also use the Twin Picture feature by selecting "Twin Picture" from the Tools menu.

# Viewing PIP (Picture in Picture)

You can view two pictures (in PC input mode) on the screen simultaneously.

Connect a PC (page 12), and make sure that images from a PC appear on the screen (page 13).

#### 1 Press ①.

Two pictures are displayed simultaneously.



Sub Window (Location of the sub window can be moved by pressing  $2\sqrt{\sqrt[1]{\phi}}$ )

PIP Availability		
In Main Window	In Sub Window	
PC HDMI 1/2 (PC timing)	TV programme or Video 1/2/3	

2 In sub window, you can select the TV channel or video input by pressing **TOOLS** and select "Sub window".

#### To return to single picture mode

Press **()**, **RETURN** or select "Single Picture" from Tools menu.

- You cannot display resolutions higher than your TV's display resolution (Back cover).
  - In PIP mode, as picture size reduced, this may decrease picture smoothness.
  - You can switch the audible picture by selecting "Audio Swap" from the Tools menu.
  - You can also use the PIP feature by selecting "PIP" from the Tools menu.

# Navigating through menus

		MENU	
0-	• 🖸	Photo	
0-	<u>⊸⊓</u>	Music	
<b>3</b> –	- <b>II</b>	Video	
<b>4</b> -	ím	FM Radio	
6-		Settings	
-			
			MENU Exit

The **MENU** button allows you to access a variety of TV settings, USB media files and FM Radio mode.

- **1** Press **MENU** on the TV or remote.
- **2** Press  $\Phi/\Phi$  to select an option, then press  $\oplus$ .
- **3** Follow the instructions on the screen.
- **4** To exit the menu, press **MENU**.

Menu	Description		
1 Photo	You can enjoy photo files via USB devices (page 17).		
2 Music	You can enjoy music files via USB devices (page 17).		
<b>3</b> Video	You can enjoy video files via USB devices (page 17).		
4 FM Radio	Listens to the FM Radio (page 15).		
Settings	Displays the "Settings" menu where most of the advanced settings and adjustments are performed. For details about settings, see page 19 to 26.		

# Listening to the FM Radio

You are able to listen to the FM radio stations using your TV by connecting an antenna (page 5). FM Radio tuning range is from 87.5-108.0 MHz.

То	Do this			
Access to FM Radio mode	Press <b>MENU</b> and select "FM Radio".			
Exit from FM Radio mode	Press <b>RETURN</b> to return to previous view input.			
Listen to preset stations	1 Access to FM Radio mode.			
	<ul> <li>2 Press MENU and select "Settings". Preset the desired FM radio stations and its labels in "FM Radio Set-up" from "Channel Set-up" menu (page 23).</li> <li></li></ul>			
Listen to non-preset stations	<ul> <li>Access to FM Radio mode.</li> <li>Press ☆/☆ to manually search for the desired FM radio station. It will search and stop when found the next available station.</li> <li>✓ You can also tune FM frequency for the desired FM radio station by pressing </li> <li>→/☆. The available radio frequency is only for temporary listening pleasure and cannot be stored in the memory.</li> <li>If the message "Please set-up FM Radio." appears, display the "Channel Set-up" menu and select "FM Radio Set-up" to preset the desired FM radio stations (page 24).</li> </ul>			

То	<ul> <li>Do this</li> <li>1 You must access "Slideshow" from the "Photo" menu to view your personal pictures.</li> <li>2 Press RETURN twice to exit "Slideshow".</li> <li>3 Access to FM Radio mode.</li> <li>4 Press TOOLS to select "Slideshow", then press ⊕.</li> <li>5 Press ⊕/② to end "Slideshow".</li> <li>Image will be displayed if a USB device is not connected or step 1 and 2 are not performed.</li> </ul>		
Show Slideshow while listening to FM Radio			
Show picture frame while listening to FM Radio	<ol> <li>You must access "Picture Frame Image" from the "Photo" menu to view your personal picture.</li> <li>Press RETURN twice to exit "Picture Frame Image".</li> <li>Access to FM Radio mode.</li> <li>Press TOOLS to select "Picture Frame Image", then press ⊕.</li> <li>Press ⊕/② to end "Picture Frame Image".</li> </ol>		
	BRAVIA image will be displayed if a USB device is not connected or step 1 and 2 are not performed.		
Reduce power consumption while in FM Radio mode	<ul> <li>Press TOOLS to select "Power Saving". Select the desired options and press ⊕.</li> <li>✓ You can also access to "Power Saving" by selecting "Eco" from the setting menu (page 26).</li> </ul>		
	2 Exit from "Picture Off" by pressing any key on the remote except ∠ +/-, ^D X or AUDIO.		

 $\not >$  • If the station has a noisy sound, you may be able to improve the sound quality by pressing r >.

• When a FM stereo programme has static noise, press AUDIO until "Mono" appears. There will be no stereo effect, but the noise will be reduced.

### Playing back photo/music/video via USB

You can enjoy photo/music/video files stored in a Sony digital still camera or camcorder through a USB cable or USB storage device on your TV.

- **1** Connect a supported USB device to the TV.
- 2 Press MENU.
- **3** Press �/� to select "Photo", "Music" or "Video".
- 4 The thumbnail view of file or folder appears. If more than one USB device is detected, select "Device Selection" from the list of available options and press ⊕, then press �/�/\$/\$/\$ to select a USB device and press ⊕.
- 5 Press ☆/☆/☆/☆ to select a file or folder, then press ⊕.
  When you select a folder, select a file, then press ⊕.
  Playback starts.

#### Photo Thumbnail view Auto Display

Allows you to enjoy the feature of "USB Auto Start" (page 25).

- $\bigstar$  While the TV is accessing the data on the USB device, observe the following:
  - Do not turn off the TV or connected USB device.
  - Do not disconnect the USB cable.
  - Do not remove the USB device.
  - The data on the USB device may be damaged.
  - Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
  - USB playback is supported for the following photo file formats:
  - JPEG (JPEG format files with the extension ".jpg" and conforming to DCF 2.0 or EXIF 2.21)
  - USB playback is supported for the following music file format:
  - MP3 (files with the extension ".mp3" that have not been copyrighted)
  - USB playback is supported for the following video file format:
    - MPEG1
    - MPEG2
  - · The file name and folder name may not display correctly in some cases.
  - When you connect a Sony digital still camera, set the camera's USB connection mode to Auto or Mass Storage. For more information about USB connection mode, refer to the instructions supplied with your digital camera.
  - Check the website below for updated information about compatible USB devices. http://www.sony-asia.com/bravia/flash.html
  - Use a USB storage device that is compliant with USB mass storage device class standards.

#### To display a photo — Picture Frame

You can display a photo on the screen for a selected period of time. After that period, the TV automatically switches itself into standby mode.

**1** Select a photo.

See "Playing back photo/music/video via USB" (page 17).

- 2 Press **TOOLS** while the selected photo is displayed, then press ↔/↔ to select "Picture Frame Image" and press ⊕.
- **3** Press **RETURN** to return to the thumbnail view.
- 4 Press �/�/� to select "Picture Frame", then press ⊕.

The TV is switched to Picture Frame mode, and the selected photo is displayed on the screen.

#### To set the duration of displaying a photo

Press **TOOLS**, then select "Duration" and press  $\oplus$ . Then, select the duration, and press  $\oplus$ .

The duration appears on the screen.

# To return to the thumbnail view Press MENU or RETURN.

- If the photo is selected from a USB device, it must remain connected to the TV.
  - If "Sleep Timer" is activated, the TV will automatically switch into standby mode.

# **Using BRAVIA Sync with Control for HDMI**

The Control for HDMI function enables the TV to communicate with the connected equipment that is compatible with the function, using HDMI CEC (Consumer Electronics Control). For example, by connecting Sony equipment that is compatible with Control for HDMI (with HDMI cables), you can control them together. Be sure to connect the equipment correctly, and make the necessary settings.

#### **Control for HDMI**

- Automatically turns the connected equipment off when you switch the TV to standby mode using the remote.
- Automatically turns the TV on and switches the input to the connected equipment when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the sound output switches from the TV speaker to the audio system.
- Adjusts the volume (→ +/-) and mutes the sound (ⁿX) of a connected audio system.
- You can operate the connected Sony equipment that has the BRAVIA Sync logo by the TV remote. Possible operations with BRAVIA Sync buttons, see page 9.

- Refer to the instruction manual of the equipment for available control.

• If "Control for HDMI" of the TV is set to "On", "Control for HDMI" of the connected equipment is also automatically switched to "On".

#### To make the Control for HDMI settings

The Control for HDMI settings must be set on both the TV side and connected equipment side. See "HDMI Set-up" (page 26) for the TV side settings. For settings on the connected equipment, refer to its operating instructions.

# Settings adjustment

🖉 • The options you can adjust vary depending on the situation. Unavailable options are greyed out or not displayed.

# Picture

Picture Mode	Sets a picture mode. The options that can be selected differ depending on the "Scene Select" settings. <b>"Vivid":</b> Enhances picture contrast and sharpness. <b>"Standard":</b> For standard pictures. Recommended for home entertainment. <b>"Custom":</b> Allows you to store your preferred settings. <b>"Game-Standard":</b> Select for standard picture suitable for games. <b>"Game-Original":</b> Select to adjust the game picture according to your preference.
Reset	Resets all the "Picture" settings except "Picture Mode" and "Intelligent Picture Plus Set-up" to the factory settings.
Backlight	Adjusts the brightness of the backlight.
Picture	Increases or decreases picture contrast.
Brightness	Brightens or darkens the picture.
Colour	Increases or decreases colour intensity.
Hue	Increases or decreases the green tones and red tones. • When viewing TV programme or video input, "Hue" is only available for NTSC colour system.
Colour Temperature	Adjusts the whiteness of the picture. <b>"Cool":</b> Gives the white colours a blue tint. <b>"Neutral":</b> Gives the white colours a neutral tint. <b>"Warm 1"/"Warm 2":</b> Gives the white colours a red tint. "Warm 2" gives a redder tint than "Warm 1". $\not m$ • "Warm 1" and "Warm 2" are not available when "Picture Mode" is set to "Vivid".
Sharpness	Sharpens or softens the picture.
Noise Reduction	Reduces the picture noise (snowy picture) in a weak broadcast signal.
MPEG Noise Reduction	Reduces the picture noise in MPEG-compressed video.
Cinema Drive	<ul> <li>Provides improved picture movement when playing BD (Blu-ray Disc), DVD or VCR images taken on film, reducing picture blur and graininess. Select "Auto" to represent original film-based content as is.</li> <li>If the image contains irregular signals or too much noise, "Cinema Drive" is automatically turned off even if "Auto" is selected.</li> </ul>
Advanced Settings	<ul> <li>Allows you to set "Picture" settings in more detail. These settings are not available when "Picture Mode" is set to "Vivid".</li> <li>"Reset": Resets all the advanced settings except "White Balance" to the factory settings.</li> <li>"Adv. Contrast Enhancer": Automatically adjusts "Backlight" and "Picture" to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes, and will increase the contrast distinction of the darker picture scenes.</li> <li>"Black Corrector": Enhances black areas of the picture for stronger contrast.</li> <li>"Gamma": Adjusts the balance between bright and dark areas of the picture.</li> <li>"Clear White": Emphasises white colours.</li> <li>"Live Colour": Makes colours more vivid.</li> <li>"White Balance": Adjusts the temperature of each colour.</li> </ul>

Intelligent Picture Plus Set-up	<b>"Intelligent Picture Plus"</b> Allows you to improve the picture when viewing TV programme or video input. The options that can be selected differ depending on the "Scene Select" settings.		
	<b>"Signal Level Indicator"</b> Turns on/off the "Signal Level Indicator" feature. When "On" is selected, the signal level bar will be displayed when you select a channel or video input.		
	<ul> <li>"Picture Optimisation"</li> <li>Allows you to enhance the picture to your preferred settings.</li> <li>"Crisp": For a sharper image with more visible noise.</li> <li>"Smooth": For a softer image with less visible noise.</li> </ul>		

•)	Sound
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Sound Mode	Sets a sound mode. The options that can be selected differ depending on the "Scene			
	Select" settings.			
	<b>"Dynamic":</b> Enhances treble and bass. Recommended for home entertainment.			
	"Standard": For standard sound.			
	"Clear Voice": Makes voice sound clearer.			
Reset	Resets all the "Sound" settings except "Sound Mode", "Dual Sound", "Speaker" and "Audio Out" to the factory settings.			
7 Band Equalizer	<ul> <li>Adjusts sound frequency settings.</li> <li>Press \$/\$ to select the desired sound frequency, then press \$/\$ to adjust the setting and press ⊕. The adjusted settings will be received when you select "Sound Mode" options Selecting "Reset" will set the "7 Band Equalizer" to original settings.</li> <li>▲ Adjusting higher frequency will affect higher pitched sound and adjusting lower frequency will affect lower pitched sound.</li> </ul>			
Balance	Emphasises left or right speaker balance.			
Intelligent Volume	Minimizes the difference in volume level between all programmes and adverts (e.g. adverts tend to be louder than programmes).			
Volume Offset	Adjusts the volume level of the current input relative to other inputs.			
Surround	Allows you to select the suitable surround effects depending on the genre of TV			
	programme (movie, sport, music, etc.) or video game.			
	"On": Delivers surround effects that help you enjoy the virtual two-ch surround audio with just the two internal TV speakers			
	"Simulated Stereo": Adds a surround-like effect to mono programmes			
	"Cinema": Delivers surround effects just like the high-grade audio systems found in movie theatres			
	<b>"Music":</b> Delivers surround effects that make you feel like you are surrounded by sound as in a music hall.			
	" <b>Sports</b> ": Delivers surround effects that make you feel like you are watching a live sports contest			
	"Game": Delivers surround effects that enhance game sound.			
	"Off": Converts and reproduces multi-ch audio to 2ch audio. In the case of other audio formats, the original audio is reproduced.			

Dual Sound	<ul> <li>Sets the sound from the speaker for a stereo or bilingual broadcast.</li> <li>"Stereo"/"Mono": For stereo broadcasts.</li> <li>"Main"/"Sub"/"Mono": For bilingual broadcasts, select "Main" for sound channel 1, "Sub" for sound channel 2, or "Mono" for mono channel, if available.</li> <li> If the signal is very weak, the sound becomes monaural automatically. <ul> <li>If the stereo sound is noisy when receiving a NICAM programme, select "Mono". The sound becomes monaural, but the noise is reduced.</li> <li>The "Dual Sound" setting is memorized for each programme position. <ul> <li>You cannot listen to stereo broadcast sound when "Mono" is selected.</li> </ul> </li> <li> If you select other equipment connected to the TV, set "Dual Sound" to "Stereo", "Main" or "Sub". However, when the external equipment connected to the HDMI jack (except HDMI 2) is selected, this is fixed to "Stereo". <ul> <li>If you access to FM Radio mode, set "Dual Sound" to "Stereo" or "Mono".</li> </ul> </li> </ul></li></ul>
Speaker	<b>"TV Speaker":</b> Turns on and outputs the TV's sound from the TV speakers. <b>"Audio System":</b> Turns off the TV speakers and outputs the TV's sound from external audio equipment connected to the audio output jacks on the TV. You can also turn on the connected equipment that is compatible with Control for HDMI, after making the appropriate settings of Control for HDMI.
Audio Out	<ul><li>"Variable": When using an external audio system, volume output from audio out can be controlled using the TV's remote.</li><li>"Fixed": The audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other audio settings) through your audio system.</li></ul>

# Screen

Wide Mode	For details about wide mode, see page 10.		
Auto Wide	<ul> <li>Automatically changes the wide mode according to the input signal from an external equipment. To keep your setting, select "Off".</li> <li></li></ul>		
4:3 Default	<ul> <li>Selects the default screen mode for use with 4:3 broadcasts.</li> <li>"Wide Zoom": Enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image much as possible.</li> <li>"Normal": Displays conventional 4:3 broadcasts in the correct proportions.</li> <li>"Off": Keeps the current "Wide Mode" setting when the channel or input is change</li> </ul>		
Auto Display Area	<b>"On":</b> Automatically adjusts the display area based upon the content. <b>"Off":</b> Turns off the "Auto Display Area". Choose one from the "Display Area" options.		
Display Area	Adjusts the picture display area. <b>"Full Pixel":</b> Displays the picture for 1080/50i, 1080/60i, 1080/50p and 1080/60p sources (HDMI or component input only) or 1080/24p sources (HDMI input only) in the original size. (Available depending on the TV model.) <b>"+1":</b> Displays pictures in their original size. <b>"Normal":</b> Displays pictures in their recommended size. <b>"-1":</b> Enlarges the picture so that the edges are outside the visible display area.		
Horizontal Shift	Adjusts the horizontal position of the picture when "Wide Mode" is set to "Wide Zoom" or "Zoom".		
Vertical Shift	Adjusts the vertical position of the picture when "Wide Mode" is set to "Wide Zoom" or "Zoom".		

#### **PC Settings**

#### "Wide Mode"

Selects a screen mode for displaying input from your PC, see page 10.

#### "Reset"

Resets all the "PC Settings" except "Wide Mode" to the factory settings.

#### "Auto Adjustment"

Automatically adjusts the display position, phase and pitch of the picture when the TV receives an input signal from the connected PC.

* "Auto Adjustment" may not work well with certain input signals. In such cases, manually adjust "Phase", "Pitch", "Horizontal Shift" and "Vertical Shift".

#### "Phase"

Adjusts the phase when the screen flickers.

#### "Pitch"

Adjusts the pitch when the picture has unwanted vertical stripes.

#### "Horizontal Shift"

Adjusts the horizontal position of the picture.

#### "Vertical Shift"

Adjusts the vertical position of the picture.

#### PC input signal reference chart for - PC and HDMI IN 1, 2

Resolutio	n					
Signals	Horizontal (Pixel)	×	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
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	×	720	45.0	60	EIA
	1280	×	768	47.4	60	VESA
	1280	×	768	47.8	60	VESA
	1280	×	960	60.0	60	VESA
	1360	×	768	47.7	60	VESA
SXGA**	1280	×	1024	64.0	60	VESA
HDTV**	1920	×	1080	66.6	60	VESA*
	1920	×	1080	67.5	60	EIA*

* 1080p timing when applied to the HDMI input will be treated as a video timing and not a PC timing. This affects the "Screen" menu settings.

** You cannot display resolutions higher than your TV's display resolution (Back cover).

In this TV's PC input does not support Sync on Green or Composite Sync.

• This TV's PC input does not support interlaced signals.

- If input signal is not shown in above chart, then this signal may not be displayed properly or cannot be displayed according to your settings.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with a 60 Hz vertical frequency will be selected automatically.

# Channel Set-up

1 Digit Direct	<ul> <li>When "1 Digit Direct" is set to "On", you can select a channel using one preset number button (0 - 9) on the remote.</li> <li>Image: When "1 Digit Direct" is set to "On", you cannot select channel numbers 10 and above entering next digit using the remote.</li> </ul>			
Auto Tuning	Tunes in all the available channels. This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters.			
Programme Sorting	Changes the order in which the channels are stored on the TV. <b>1</b> Press $\Delta/\Phi$ to select the channel you want to move to a new position, then press $\oplus$ . <b>2</b> Press $\Delta/\Phi$ to select the new position for your channel, then press $\oplus$ .			
Programme Labels	<ul> <li>Assigns a channel name of your choice up to seven letters or numbers.</li> <li>1 Press ☆/☆ to select the channel you want to name, then press ⊕.</li> <li>2 Press ☆/☆ to select the desired letter or number ("_" for a blank space), then press ☆.</li> <li>If you input a wrong character</li> <li>Press ¢/☆ to select the wrong character. Then, press ☆/☆ to select the correct character.</li> <li>To delete all the characters</li> </ul>			
	Select "Reset", then press $\oplus$ . <b>3</b> Repeat the procedure in step 2 until the name is completed, then press $\oplus$ .			
Manual Programme Preset	Before selecting "Label"/"AFT"/"Audio Filter"/"Skip"/"Colour System"/"Signal Booster", press <b>PROG +/</b> – to select the programme number with the channel. You cannot select a programme number that is set to "Skip" (page 24).			
	"Programme"/"TV System"/"VHF/UHF"			
	Presets programme channels manually.			
	<b>1</b> Select "Programme", then press $\oplus$ .			
	2 Press 分/∜ to select the programme number you want to manually tune (if tuning a VCR, select channel 0), then press <b>RETURN</b> .			
	<b>3</b> Press $\Omega/\Psi$ to select "TV System", then press $\oplus$ .			
	<ul> <li>4 Press \(\Delta\) to select your 1 \(\begin{bmatrix} b broadcast systems, then press \(\Delta\).</li> <li>5 Press \(\Delta\)/\(\Delta\) to go to the frequency range indication ("VHF Low", "VHF High" or "UHF") then press \(\Delta\).</li> </ul>			
	<b>6</b> Tune the channels as follows:			
	Press ⇐/⇔ to search for the next available channel. When a channel has been found, the search will stop. To continue searching, press ⇐/⇔. Repeat the procedure above to preset other channels manually.			
	"Label"			
	Assigns a name of your choice, up to seven letters or numbers, to the selected channel. To input characters:			
	<b>1</b> Press $\hat{\Phi}/\hat{\Phi}$ to select the desired letter or number ("_" for a blank space), then press $\hat{\Phi}$ .			
	If you input a wrong character Press $4/4$ to select the wrong character. Then, press $4/4$ to select the correct character.			
	<b>2</b> Repeat the procedure in step 1 until the name is completed, then press $\oplus$ .			
	"AFT"			
	Allows you to fine-tune the selected channel manually. When "On" is selected, the fine tuning is performed automatically.			

Continued

#### "Audio Filter"

Improves the sound of individual channels when distortion occurs in mono broadcasts in TV system "B/G", "I" and "D/K".

You cannot receive stereo or dual sound when "High" is selected.

#### "Skip"

Skips unused channels when you press **PROG +/–** to select channels. (You can still select a skipped channel using the number buttons.)

#### "Colour System"

Selects the colour system ("Auto", "PAL", "SECAM", "NTSC3.58", "NTSC4.43" or "PAL60") according to the channel.

#### "Signal Booster" (Intelligent Signal Booster)

Improves the picture quality if the TV signal is too strong or weak. Press  $\partial/\partial$  to select either "Off" if the signal is too strong (picture distorted; picture with lines; signal interference) or "Auto" if the signal is weak (snowy picture), then press  $\oplus$ .

#### "Signal Level"

Displays the signal level for programme currently being watched.

	red amber green							
	(weak) (average) (good)							
FM Radio Set-up (only in FM Radio	Preset up to 30 FM radio stations that can be received in your area.							
	"Auto Tuning"							
mode)	Allows you to automatically tune and store all the available channels.							
	<b>1</b> Select "Auto Tuning", then press $\oplus$ .							
	<b>2</b> Select "OK" to automatically tune in all the available channels.							
	"FM Radio Presets"							
	Manually tune and store each available channel one at a time. <b>1</b> Press $\Phi/\Phi$ to select the desired FM radio station position, then press $\oplus$ .							
	2 Press ŵ/☆ to search the FM radio stations. Searching stops automatically when a station is tuned in. If the station has a noisy sound, you may be able to improve the sound quality by pressing �/⇔. Press ⊕ to store the FM radio station. You may edit the FM radio station label. Press ŵ/☆ to select alphanumeric characters for the label, then press ⊕. Repeat steps 1 to 2 to preset other FM radio stations.							
	To enable this feature, access to FM Radio mode by using MENU (page 15), then preset your desired FM radio stations according to the steps mentioned above.							

#### **Parental Lock**

PIN Code	Allows you to set up TV to block channel or external input. Use 0-9 on the remote to enter a four-digit PIN code.						
Change PIN Code	Selects to change your PIN code.						
Programme Block	Blocks an individual channel from being watched. To view a blocked channel, select "Unblocked".						
External Input Lock	Locks an external input from being watched. To view a blocked external input, select "Unblocked".						
<ul> <li>Entering the correct P To reactivate the "Par</li> <li>If you lost your PIN c</li> </ul>	IN code for blocked channel or external input will temporarily deactivates the "Parental Lock" feature. rental Lock" settings, turn off and on the TV. rode, see page 31.						

# Set-up

USB Auto Start	Automatically enter photo thumbnail view when the TV is turned on and a digital still camera or other device storing photo files is connected to the USB port then turned on.							
Favourites	Allows you to set your favourite channels and/or external input by assigning the desired channel numbers and/or external input.         To watch a channel or external input         Press ☆/☆ to select the channel number or external input, then press ⊕.         To turn off the Favourite list         Press RETURN to return to the previous screen.         Add a current channel or external input to the Favourite list							
	<ul> <li>Press 分/₺ to select "Add to Favourites", then press ⊕.</li> <li>Image: Image: Image</li></ul>							
Timer Settings	Sets the timer to turn on/off the TV.							
	<ul> <li>"Sleep Timer"</li> <li>Sets the TV to automatically switch to standby mode after a certain amount of time.</li> <li>"Y • If you turn off the TV and turn it on again, "Sleep Timer" is reset to "Off".</li> <li>"On Timer"</li> <li>Sets the TV to automatically turn on from standby mode.</li> </ul>							
	<ul> <li>"Clock Set"</li> <li>Allows you to adjust the clock manually.</li> <li>Clock Set" will automatically reset when you turn off the AC power.</li> </ul>							
	<ul> <li>When the "Sleep Timer" or "On Timer" is activated, the (1) (Timer) indicator on the TV front panel lights up in amber.</li> </ul>							
AV Set-up	"Video Labels"							
	<ul> <li>Assigns a name to any equipment connected to the side and rear jacks. The name will be displayed briefly on the screen when the equipment is selected.</li> <li>1 Press ¹/³/³ to select the desired input source, then press ¹/₂.</li> <li>2 Press ¹/³/³ to select the desired option below, then press ¹/₂.</li> <li>Equipment labels: Uses one of the preset labels to assign a name to connected equipment.</li> <li>"Edit": Creates your own label. Follow steps 2 to 3 of "Programme Labels" (page 23).</li> <li>"Skip": Skips an unnecessary input source.</li> </ul>							
	<b>"Colour System"</b> Selects the colour system ("Auto", "PAL", "SECAM", "NTSC3.58", "NTSC4.43" or "PAL60") according to the composite video signal from the input source.							
	<b>"Video 1 Input/Output"</b> Switches the video jack $\textcircled{>}1$ and audio jack $\textcircled{>}1$ between input and output modes. When set to "Output", outputs whatever is being viewed on the screen (except signals from the $-\textcircled{-}/-\textcircled{-}$ , HDMI IN 1 or 2 and $-\textcircled{-}/-\textcircled{-}$ PC IN jacks).							
	"Video 3/Component Input" Select "Auto" to have the TV detect and switch between the component video jack → or the video jack → 3 when component video jack → or video jack → 3 is connected							
	<ul> <li>You cannot use the component video jack - and the video jack - 3 at the same time.</li> </ul>							

Allows the TV to communicate with equipment that is compatible with the Control for HDMI function, and connected to the HDMI jacks of the TV. Note that communication settings must also be made on the connected equipment.

#### "Control for HDMI"

Sets whether or not to link the operations of the TV and the connected equipment that is compatible with Control for HDMI. When set to "On", the following functions are available.

If the specific Sony equipment that is compatible with Control for HDMI is connected, this setting is applied to the connected equipment automatically when the "Control for HDMI" is set to "On" using the TV.

#### "Auto Devices Off"

When this is set to "On", the connected equipment that is compatible with Control for HDMI turns off when you turn off the TV by remote.

#### "Auto TV On"

When this is set to "On", the TV turns on when you turn on the connected equipment that is compatible with Control for HDMI.

#### "HDMI Device List"

Displays a list of connected equipment that is compatible with Control for HDMI. Selects "Enable" to update the "HDMI Device List".

#### "Device Control Keys"

Select button functions of the TV's remote control to operate the connected equipment. **"Normal":** For basic operations, such as navigation buttons (up, down, left or right, etc).

**"Tuning Keys":** For basic operations and operation of channel-related buttons, such as **PROG +/–** or **(0-9)**, etc. Useful when you control a tuner or set-top box, etc; via the remote control.

**"Menu Keys":** For basic operations and operation of the **MENU/TOOLS** buttons. Useful when you select menus of a BD player, etc; via the remote control.

**"Tuning and Menu Keys":** For basic operations and operation of channel-related buttons and **MENU/TOOLS** button.

	<ul> <li>You cannot use "Control for HDMI" if the TV operations are linked to the operations of ar audio system that is compatible with Control for HDMI.</li> <li>Some equipment with "Control for HDMI" does not support the "Device Control" feature</li> </ul>
Auto Start-up	Starts the initial set-up procedure (page 6). This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters.
Language	Selects the language in which the menus are displayed.
Product Information	Displays your TV's product information.
Factory Settings	Resets all settings to factory settings. After completing this process, the initial set-up screen is displayed.

# Be sure not to turn the TV off during this period (it takes about 30 seconds) or press any buttons.

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Power Saving	Reduces power consumption of the TV by adjusting the backlight. When you select "Picture Off", the picture is switched off, and the 🖄 (Picture Off) indicator on the TV front panel lights up in green. The sound remains unchanged.						
Idle TV Standby	Turns the TV off after it has been kept idle for the preset length of time.						
PC Power Management	Switches the TV to standby mode when the TV receives no signal from the PC input source for 30 seconds.						

# Installing the accessories (Wall-Mount Bracket)

#### **To Customers:**

For product protection and safety reasons, Sony strongly recommends that installing of your TV be performed by Sony dealers or licensed contractors. Do not attempt to install it yourself.

#### To Sony Dealers and Contractors:

Provide full attention to safety during the installation, periodic maintenance and examination of this product.

Your TV can be installed using the Wall-Mount Bracket SU-WL500, SU-WL50B or SU-WL100 (sold separately).

- · Refer to the Instructions supplied with the Wall-Mount Bracket to properly carry out the installation.
- Refer to "Detaching the stand from the TV" (page 6).



Sufficient expertise is required for installing these products, especially to determine the strength of the wall for withstanding the TV's weight. Be sure to entrust the attachment of these products to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation.

#### TV installation dimensions table



Unit: mm

	Display dimensions		Screen centre dimension	Length for each mounting angle					
Model name				Angl	Angle (20°)				
	A	B	©	Ø	0	F	G	H	
KLV-26BX300/ KLV-26BX301	676	423	97	315	158	262	402	322	
KLV-22BX300/ KLV-22BX301	575	361	133	324	142	222	342	325	







Unit: mm

Model name	Display		Screen centre dimension		Length for each mounting angle						
	dimensions				Angle (0°)			Angle (20°)			
	A	₿	©		D		0		F	G	Ξ
			SU- WL500	SU- WL50B	SU- WL500	SU- WL50B	SU- WL500	SU- WL50B	SU-WL500 only		nly
KLV-40BX400/ KLV-40BX401	996	598	122	175	425	478	159	159	341	566	462
KLV-32BX300/ KLV-32BX301	804	497	172	200	426	454	156	156	303	479	460

Figures in the above table may differ slightly depending on the installation.

#### WARNING

The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV. Refer to "Specifications" for its weight.
## Screw and hook locations diagram/table

Screw location - When installing the Mounting Hook on the TV.

### SU-WL500

### SU-WL50B

d 0

е

f 0

g

h 0

i

0

ŵ

0

0

0 i

d

е

f

g 0

h

i 0

i. 0

0

0

0

ŵ 0



Hook location - When installing the TV onto the Base Bracket.

SU-WL100



SU-WL500



* Hook location "a" cannot be used for the models in the table below.

SU-WL50B



* Hook location "a" cannot be used for the models in the table below.

Model name	Screw location		Hook location	
Woder hame	SU-WL500	SU-WL50B	SU-WL500	SU-WL50B
KLV-40BX400/KLV-40BX401	d, g	d, i	b	
KLV-32BX300/KLV-32BX301	e, g	e, h	С	
			SU-W	/L100
KLV-26BX300/KLV-26BX301			а	
KLV-22BX300/KLV-22BX301			b	

## Troubleshooting

Check whether the  $\mathop{\scriptstyle \bigcup}$  (standby) indicator is flashing in red.

### When it is flashing

The self-diagnosis function is activated.

1 Count how many times the ⁽⁾ (standby) indicator flashes between each three second break.

For example, the indicator flashes three times, then there is a three second break, followed by another three flashes, etc.

2 Press () on the TV to turn it off, disconnect the AC power cord, and inform your dealer or Sony service centre of how the indicator flashes (number of flashes).

### When it is not flashing

- 1 Check the items listed below.
- 2 If the problem still persists, have your TV serviced by qualified service personnel.

### **Picture**

### No picture (screen is dark) and no sound

- Check the antenna/cable connection.
- Connect the TV to the AC power outlet, and press () on the TV.
- If the (standby) indicator lights up in red, press  $\swarrow \textcircled{}$ .

#### No picture or no menu information from equipment connected to the video input jack appears on the screen

- Press to display the connected equipment list, then select the desired input.
- Check the connection between the optional equipment and the TV.

### Double images or ghosting

· Check the antenna/cable connection, location or direction.

### Only snow and noise appear on the screen

- · Check if the antenna is broken or bent.
- Check if the antenna has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).

#### Distorted picture (dotted lines or stripes)

- Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers or optional equipment.
- When installing optional equipment, leave some space between the optional equipment and the TV.
- Check the antenna/cable connection.
- Keep the antenna cable away from other connecting cables.

#### Picture or sound noise when viewing a TV channel

• Adjust "AFT" (Automatic Fine Tuning) to obtain better picture reception (page 23).

# Some tiny black points and/or bright points appear on the screen

• The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.

#### Picture contours are distorted

• Change the current setting of "Cinema Drive" to other settings (page 19).

### No colour on programmes

• Select "Reset" (page 19).

# No colour or irregular colour when viewing a signal from the Y, $P_B/C_B$ , $P_R/C_R$ jacks of --

Check the connection of the Y, P_B/C_B, P_K/C_R jacks of
 -→ /→ and check if each jacks are firmly seated in their
 respective jacks.

# No picture from the connected equipment appears on the screen

- Turn the connected equipment on.
- Check the cable connection.
- Press to display the connected equipment list, then select the desired input.
- Correctly insert the memory card or other storage device in the digital still camera.
- Use a digital still camera memory card or other storage device that has been formatted according to the instruction manual supplied with the digital still camera.
- Operations are not guaranteed for all USB devices. Also, operations differ depending on the features of the USB device and the video being played.

## Cannot select the connected equipment on the menu or cannot switch the input

· Check the cable connection.

### Sound

#### No sound, but good picture

- Press → +/- or ¤% (Mute).
- Check if the "Speaker" is set to "TV Speaker" (page 21).

### No sound or noisy sound

• Check if the TV system setting is appropriate (page 23).

## Channels

#### Some channels are blank

- The channel is for scrambled/subscription service only. Subscribe to a pay TV service.
- Channel is used only for data (no picture or sound).
- Contact the broadcaster for transmission details.

## General

## The TV turns off automatically (the TV enters standby mode)

- Check if the "Sleep Timer" is activated, or confirm the "Duration" setting of "On Timer" (page 25).
- Check if the "Idle TV Standby" is activated (page 26).

### The TV turns on automatically

• Check if the "On Timer" is activated (page 25).

### Some input sources cannot be selected

• Select "Video Labels" and cancel "Skip" of the input source (page 25).

### The remote does not function

· Replace the batteries.

## HDMI equipment does not appear on "HDMI Device List"

Check that your equipment is compatible with Control for HDMI.

### Cannot select "Off" in "Control for HDMI"

• If you have connected any audio system that is compatible with Control for HDMI, you cannot select "Off" in this menu. To change the audio output to the TV speaker, select "TV Speaker" in the "Speaker" menu (page 21).

### Lost password

• Select the "PIN Code" settings on the "Parental Lock" settings, then enter the following master password: 9999. This password clears your previous password and allows you to enter a new password (page 24).

## **Specifications**

Model nan	ne	KLV-40BX400 KLV-40BX401	KLV-32BX300 KLV-32BX301	KLV-26BX300 KLV-26BX301	KLV-22BX300 KLV-22BX301		
System							
Panel system	1	LCD (Liquid Crystal Display) Panel					
TV system		B/G, I, D/K, M					
Colour/video	system	PAL, PAL60 (only video input), SECAM, NTSC4.43 (only video input), NTSC3.58					
Channel cove	erage	B/G: VHF: E2 to E12/ UHF: E21 to E69/ CATV: S01 to S03, S1 to S41     VHF: 1 to 11/UHF: 21 to 69/ CATV: S01 to S03, S1 to S41 (New Zealand only)     I:   UHF: B21 to B69/ CATV: S01 to S03, S1 to S41     D/K: VHF: C1 to C12, R1 to R12/ UHF: C13 to C57, R21 to R60/ CATV: S01 to S03, S1 to S41, Z1 to Z39     M:   VHF: A2 to A13/ UHF: A14 to A79/ CATV: A8 to A2, A to W+4, W+6 to W+84					
Sound output	t	10 W +	10 W	8 W + 8 W	5 W + 5 W		
Input/Outp	out jacks						
Antenna		75 ohm external terminal for VHF/UHF					
<b>€</b> 1		Video input (phono jacks)/Monitor out					
<b>(</b> →1	1 Audio input (phono jacks)/Monitor out						
-Ð 2		Video input (phono jack)					
-Đ 2		Audio input (phono jacks)					
	COMPONENT IN/   COMPONENT IN     3   Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i     Y: 1 Vp-p, 75 ohms, 0.3V negative sync/PB/CB: 0.7 Vp-p, 75 ohms/Pr/CR: 0.7 Vp-p, 75 ohms     3 Video input (phono jack)						
-OMPC	COMPONENT IN Audio input (phono jacks)						
HDMI IN 1,	DMI IN 1, 2 Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i   Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits   -••• Analogue audio input (minijack) (HDMI IN 2 only)   PC Input (see page 22)						
PC IN 🗕	IN -   PC Input (D-sub 15-pin) (see page 22)     G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/     R: 0.7 Vp-p, 75 ohms/HD: 1-5 Vp-p/VD: 1-5 Vp-p						
PC IN ->		PC audio input (minijack)					
Ŷ		USB port					
Power and	l others						
Power requir	rements 110–240 V AC, 50/60 Hz 220-240 V AC, 50/60 Hz (New Zealand, South Africa and Tunisia only)						
Screen size	inches	40	32	26	22		
(measured diagonally)	cm (Approx.)	101.6	80.0	66.1	54.8		
Display resolution		1,920 pixels (horizontal) × 1,080 lines (vertical)	1,366 pixels (horizontal) × 768 lines (vertical)				
Power consumption		Indicated on the rear of the TV.					
Dimensions (Approx.) $(w \times h \times d)$	with stand (mm)	$996 \times 635 \times 250$	$804 \times 532 \times 220$	$676 \times 459 \times 220$	575 × 398 × 215		
	without stand (mm)	$996 \times 598 \times 99$	$804\times497\times96$	676 × 423 × 97	575 × 361 × 88		
Mass	with stand (kg)	15.6	10.7	8.8	6.6		
(Approx.)	without stand (kg)	13.6	9.2	7.3	6.0		
Optional accessories	Wall-Mount Bracket	SU-WL500 or	WL500 or SU-WL50B SU-WL100				

Design and specifications are subject to change without notice.

Instructions on "Installing the Wall-Mount Bracket" are not supplied in the form of a separate leaflet with this TV. These installation instructions are included within this TV's instructions manual.

Printed on 70% or more recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.





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