REVISION HISTORY

EX2L CHASSIS

MODEL

KLV-32 V530A, V550A, V550A/R, V550A/W
KLV-40 V530A, V550A, V550A/R, V550A/W
KLV-46V550A
KLV-52V550A

PART NO. : 9-888-107-01

NO.	SUFFIX	DATE	SUPP / CORR	DESCRIPTION
1	-01	2009/2	_ _	1st Issue

Self Diagnosis
Supported model

SERVICE MANUAL

EX2L CHASSIS

MODEL	COMMANDER	DEST.
KLV-32V530A	RM-GA015	ME
KLV-32V550A	RM-GA015	India, ME, Philippines, Russia, South Africa, Thailand, Tunisia
KLV-32V550A/R (Red)	RM-GA015	ME, Philippines, Thailand, South Africa
KLV-32V550A/W (White)	RM-GA015	ME, Philippines, Thailand, South Africa
KLV-40V530A	RM-GA015	ME
KLV-40V550A	RM-GA015	India, Iran, ME, Philippines, Russia, South Africa, Thailand, Tunisia
KLV-40V550A/R (Red)	RM-GA015	ME, Philippines, Thailand, South Africa
KLV-40V550A/W (White)	RM-GA015	ME, Philippines, Thailand, South Africa
KLV-46V550A	RM-GA015	India, ME, Philippines, Russia, South Africa, Thailand
KLV-52V550A	RM-GA015	India, Iran. ME, Philippines, Russia, South Africa, Thailand, Tunisia

KLV-32 V530A, V550A, V550A/R, V550A/W

KLV-40 V530A, V550A, V550A/R, V550A/W

RM-GA015

KLV-46V550A

KLV-52V550A

LCD COLOR TV

SONY

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OPERATING INSTRUCTIONS

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 Cord 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 DATA PRECISION 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery operated AC voltmeter. The 'limit' indication is 0.75V 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.)

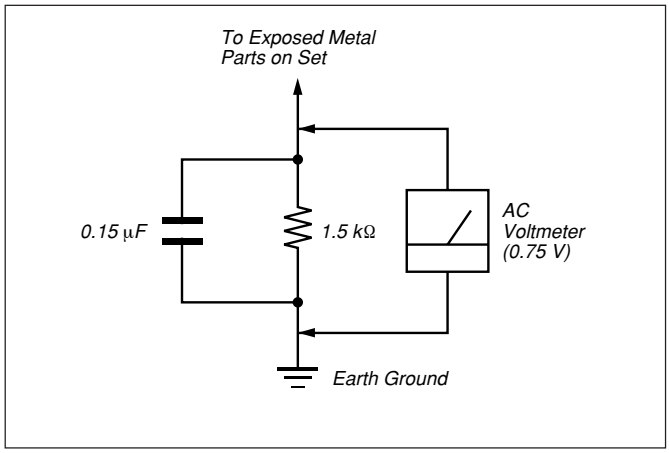


Figure 1. AC voltmeter to check AC leakage

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

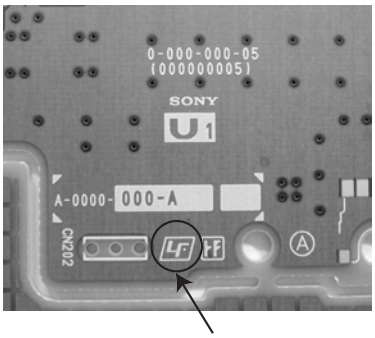


Figure 3: LF logo on circuit board

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:-

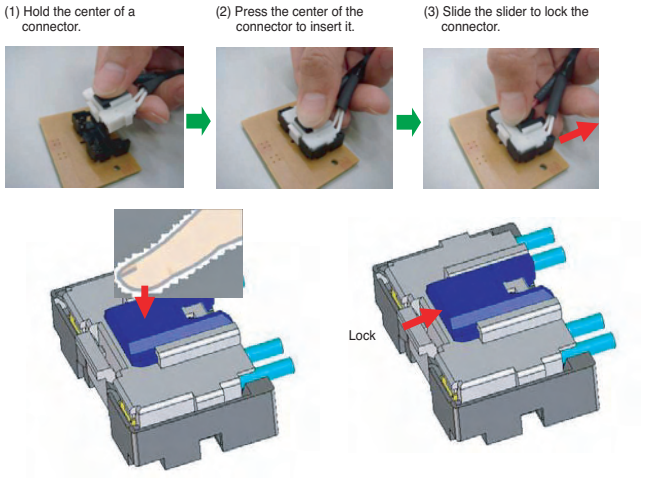
Part number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

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.

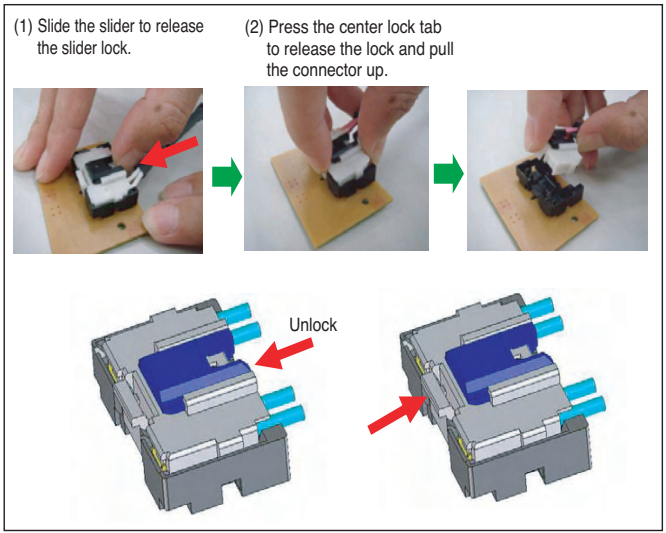
For more information on the use of Lead Free Solder, please refer to ***http://www.sony-training.com***

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

a) Insertion



b) Detachment

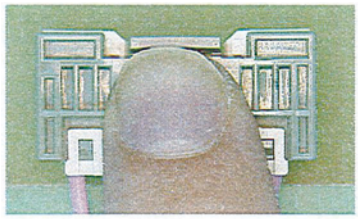


1-7. Attachment, Detachment & Confirmation of Lock Condition of JST IBH Connector (If applicable for these models)

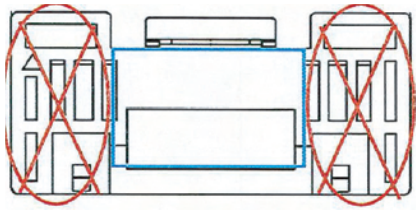
Attention: This is a **SAFETY CRITICAL PROCESS.**

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)

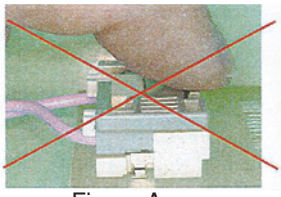


Figure A

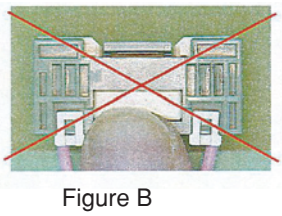


Figure B

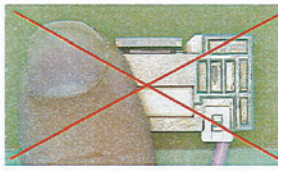
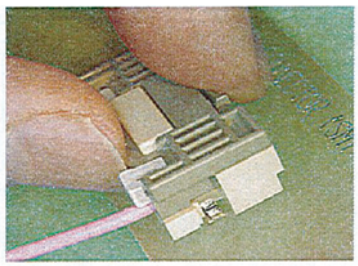


Figure C

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.

b) Detachment

(1) Hold between the lock part and harness of socket. Release the lock and pull out connector within 20 degree.



(2) Prohibited matter (Refer Figure D & E explanation)

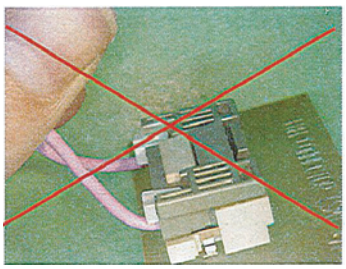


Figure D

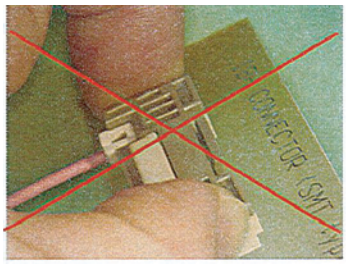


Figure E

Figure D: Do not pull out by holding the harness only.
Figure E: Do not pull out the connector when it does not release the lock.

c) Confirmation of Lock Condition

(1) Confirm the lock conditions. When lock is completed, base and socket must be same line as shown in Figure F and G.

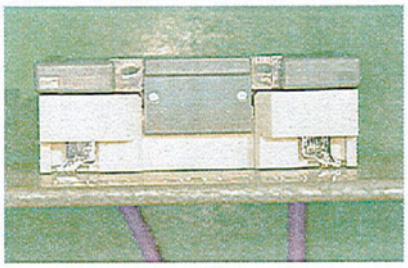


Figure F

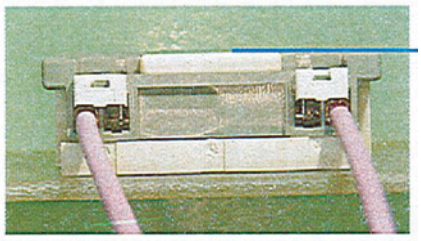


Figure G

(2) NG Condition
It is NG condition when there are some gap between base and socket such as in Figure H and I.

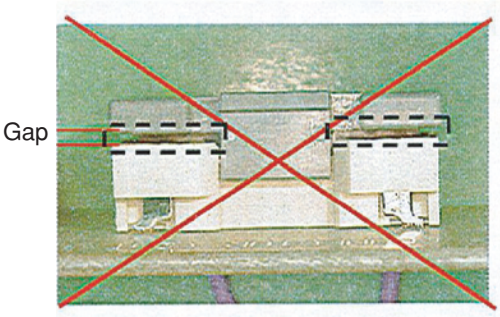


Figure H

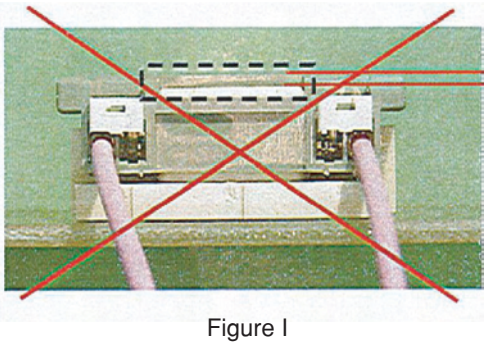
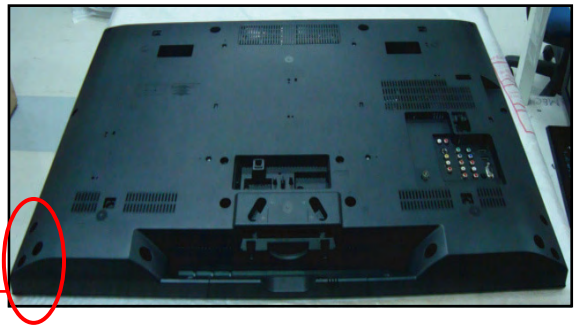


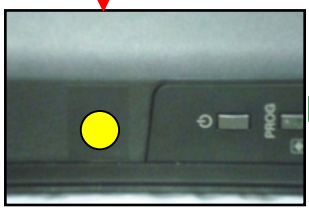
Figure I

1-8. REMOVAL AND INSTALLATION OF REAR COVER PROCEDURE

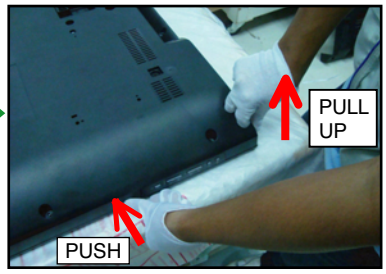
a) REMOVAL



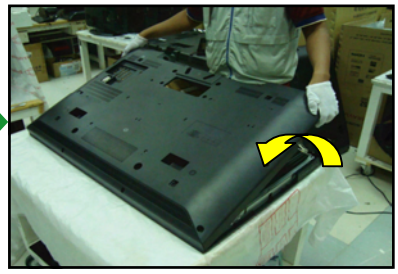
Note:
Please refer to
Section 4 : Disassembly
for screws informations .



PUSH POINT

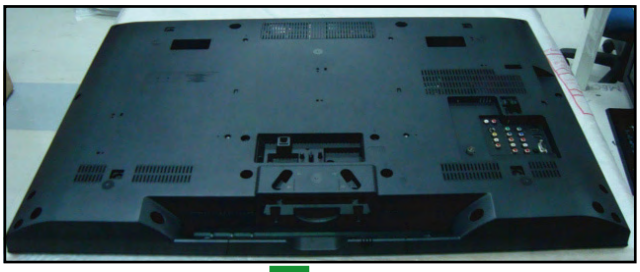


a. PHOTO SHOW THE POSITION DURING REAR COVER OPENING
b. PUSH TOWARDS INNER SET WHILE REMOVE REAR COVER FROM SIDE CONTROL



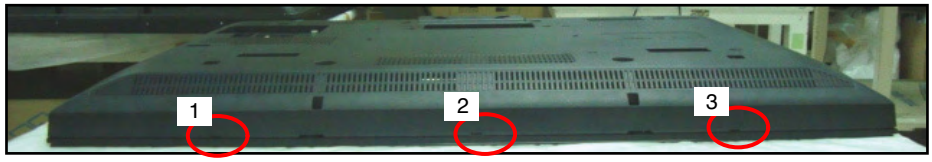
c. LIFT UP THE REAR COVER FROM BOTTOM

b) INSTALLATION

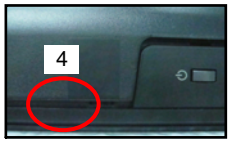


Note:

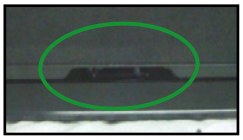
1. Please refer to Section 4 : Disassembly for screws informations.
2. Please Make Sure Rear Cover Not Overlap with Bezel.



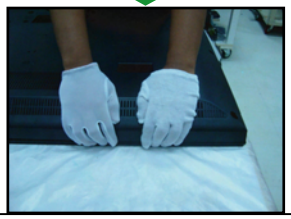
<TOP SIDE>



<RIGHT SIDE>



CLICK

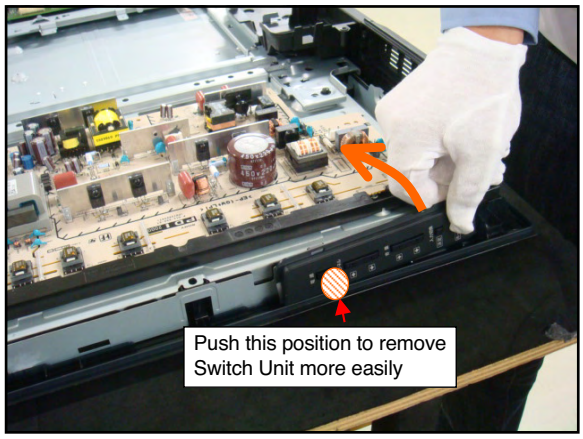


CLICKING POSITION (PUSH FROM REAR COVER TO BEZEL)

1. FOR EASIER INSTALLATION AT TOP SIDE, CLICK THE REAR COVER FROM SIDE TO CENTER
2. PUSH THE REAR COVER AT 4 POSITIONS UNTIL CLICK SOUND COME OUT.
3. 3 POSITIONS AT TOP SIDE AND 1 POSITION AT RIGHT SIDE (NEAR SIDE CONTROL)

1-9. Removal of Switch Unit Procedure

1

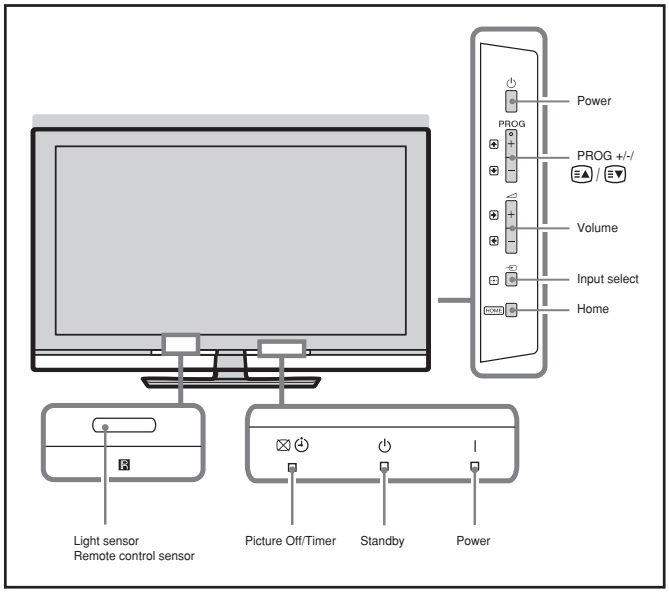


2

Push and slant towards inner side of set to remove Switch Unit correctly.

SECTION 2
SELF DIAGNOSTIC FUNCTION

2-1. Overview of Control Buttons



2-2. LED Display Specification

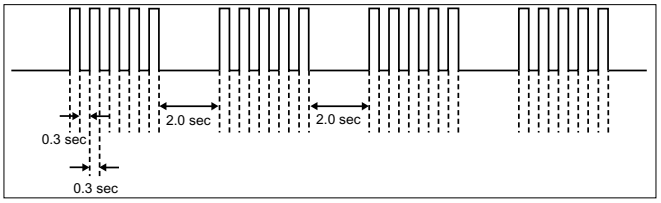
LED Type	Description	Remark
POWER	Green: LED	Green lights at power ON.
STANDBY	Red: One LED	Red lights during standby.
Picture Off/ Timer	Green/Amber : Two LEDs	Green lights during Picture OFF and amber lights during Timer activation.

2-3. LED Display Control

Status	Display		Remark
	Power LED	Standby LED	
POWER ON	Green lights	OFF	Microcomputer is in a normal state.
STANDBY	OFF	Red lights	Microcomputer is in a sleep state.
Failure	OFF	Red flashes	Classify the trouble causes by the no. of red blinking.

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 DC_ALERT. It repeats flashing for a specified number of times in 0.3sec/ cycle and has a 2 seconds interval of lighting off. Please note that a 2 seconds interval of lighting off is fixed regardless of abnormal state types.

2-5. Standby LED Error Display
Perform below countermeasures according to Standby LED blinking times.

Blinking times	Error	Countermeasure
2	DC_DET	Replace either/all ● Power board - Power Unit(32" & 52") - IP1 (40") - IP2 (46") ● BA Board
5	DC_ALERT	Replace BA board.
6	BACKLIGHT	Replace either/both ● BA board ● Panel
7	INTERNAL TEMP	Replace either/all ● Power board - Power Unit(32" & 52") - IP1 (40") - IP2 (46") ● BA board
8	AUDIO	Replace either/all ● Power board - Power Unit(32" & 52") - IP1 (40") - IP2 (46") ● BA board ● Speaker
10	DIGITAL FE/DE	Replace BA board.
13	BALANCER	Replace either/all ● Panel ● Power board - Power Unit(32" & 52") - IP1 (40") - IP2 (46") ● D5N, D6N(52”)
14	T-CON	Replace either/both ● Panel ● BA board

Note: Each of the above blinking repeats 2 seconds.

2-6. Triage Chart

Reference	Symptom-(Dead Set)										Video- Distorted or Missing						
	2 Blinks	5 Blinks	6 Blinks	7 Blinks	8 Blinks	10 Blinks	13 Blinks	14 Blinks	No Power	No Video BL OK OSD OK	No Video No BL	No Video BL OK No OSD	No Tuner Video OK	Tuner OK Video 1-3 Bad	No HDMI	No Audio
BA Board	●	●	▲	●	●	●	▲	●	▲	●	●	●	●	●	●	●
HL1A Board																
HSN Board																
HSW Board									▲		●	▲				
Power Unit (32")	●		▲	●	▲				●		●	▲				
Power Unit (52")	●		▲	●	▲		●		●		●	▲				
IP1 Board (40")	●		▲	●	▲		●		●		●	▲				
IP2 Board (46")	●		▲	●	▲		●		●		●	▲				
D5N Board (52")			▲	●			●				●	▲				
D6N Board (52")			▲	●			●				●	▲				
T-CON Board								●				●				
Speaker Unit					●											●
RF Module													●			
Panel Module			●				●				●	●				
LVDS cable								●								
Joint Connector	▲	▲	▲		▲		▲	▲	●		▲	▲				▲
Problem	Low B+	Low B+	BL	Temp	Audio	Digital	Balancer	T-CON								
Flowchart	A(i & ii)	A(i & ii)	D	A(i & ii)	B	A(i & ii)	A(i & ii)	D	A(i & ii)	C	A(i & ii)	C	C	C	C	B

(Refer Section 3: Troubleshooting (for flow chart reference))

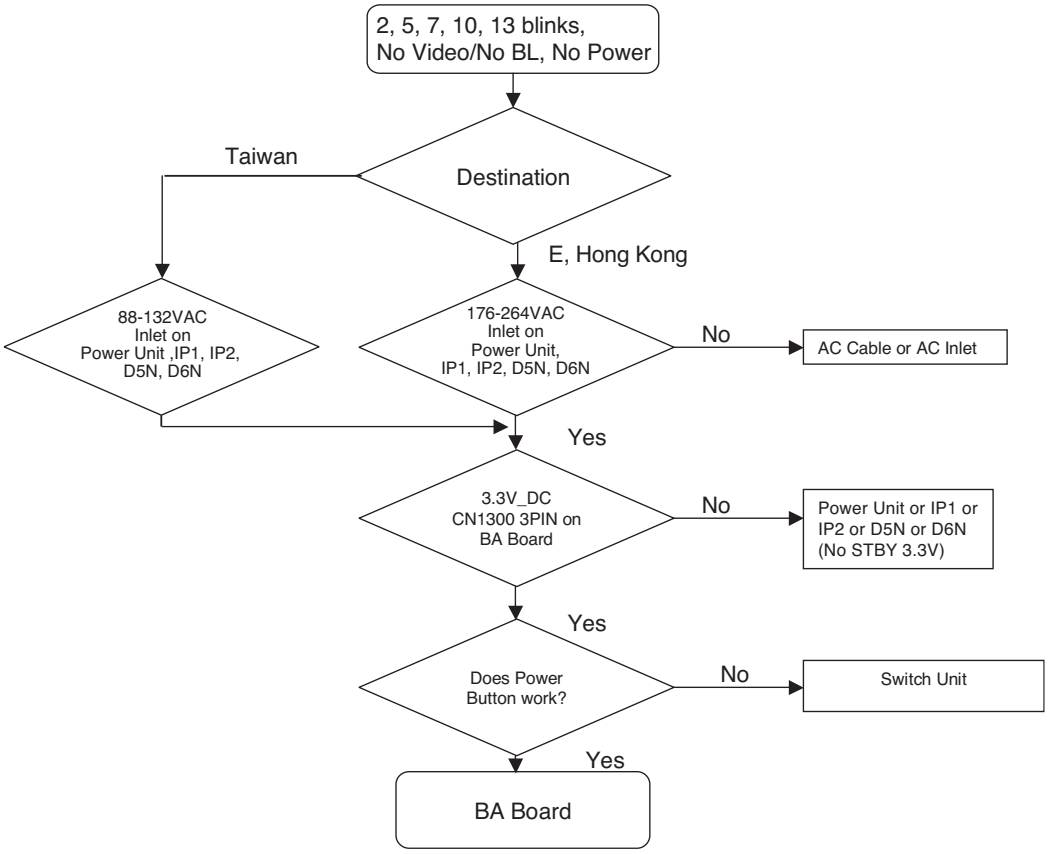
● Doubtful Part

▲ Few Possibility

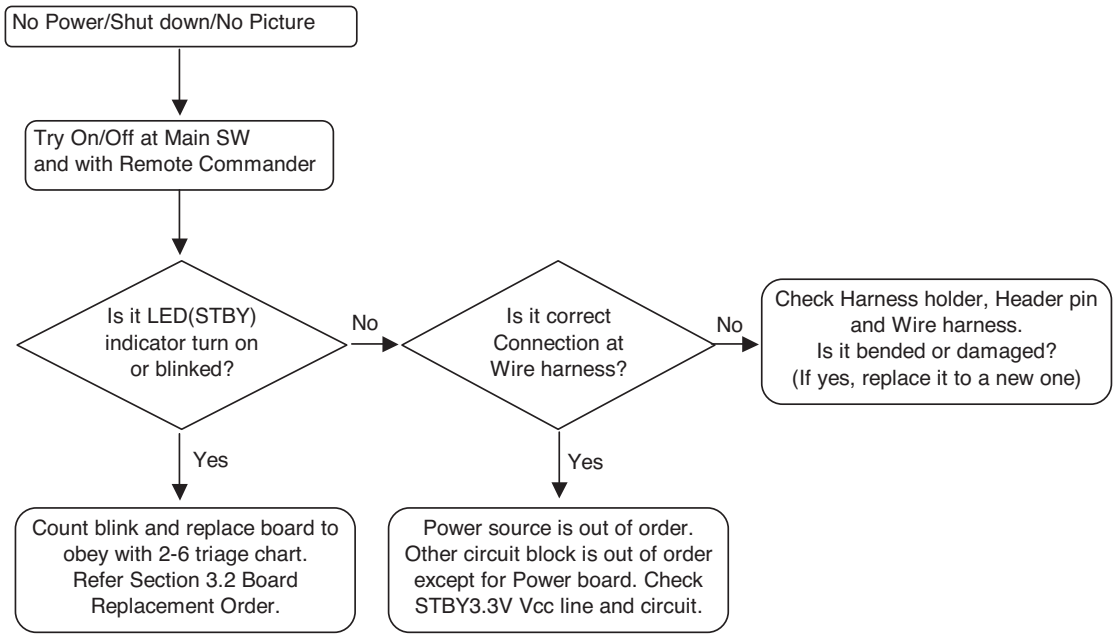
SECTION 3
TROUBLESHOOTING

3.1 Flowchart

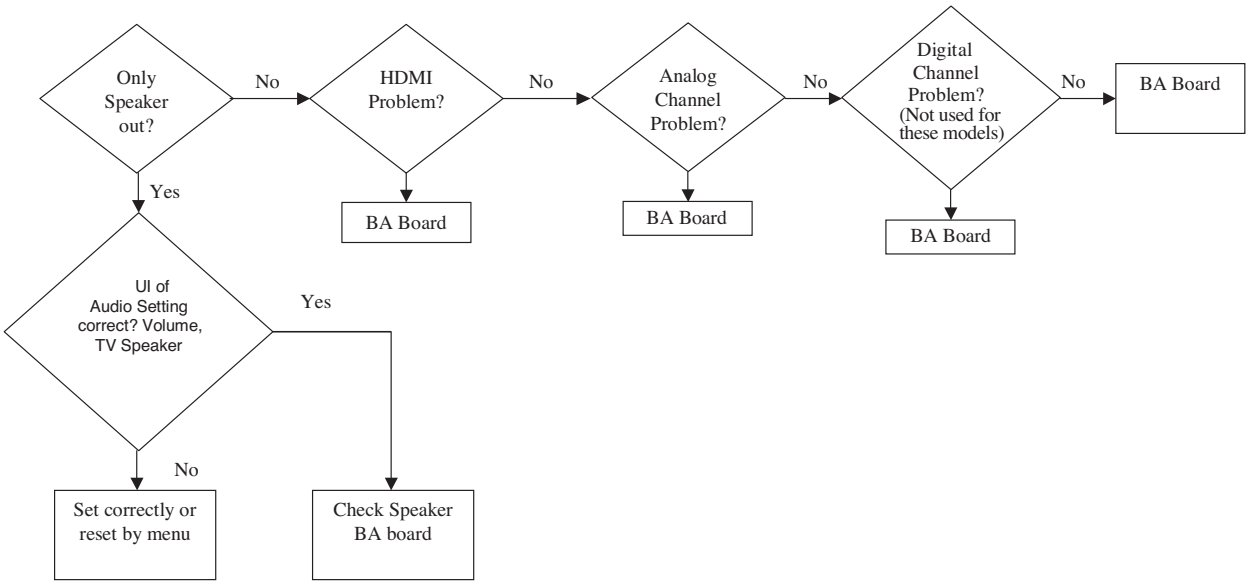
3-1-1. Flowchart A(i)



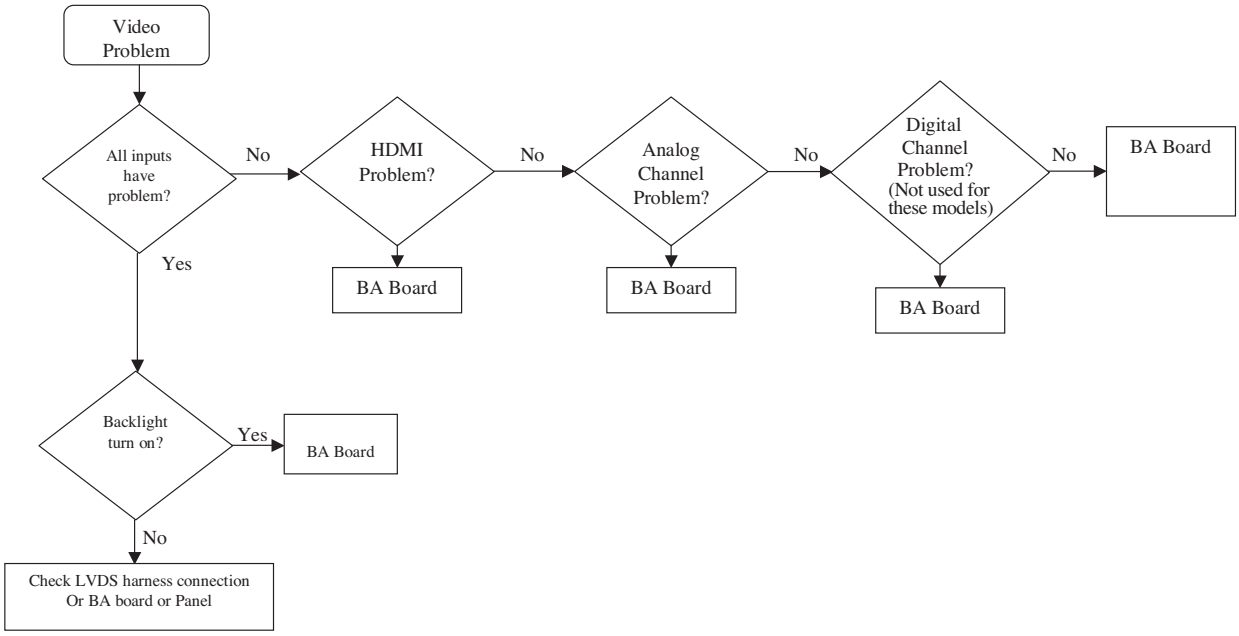
Flowchart A(ii)



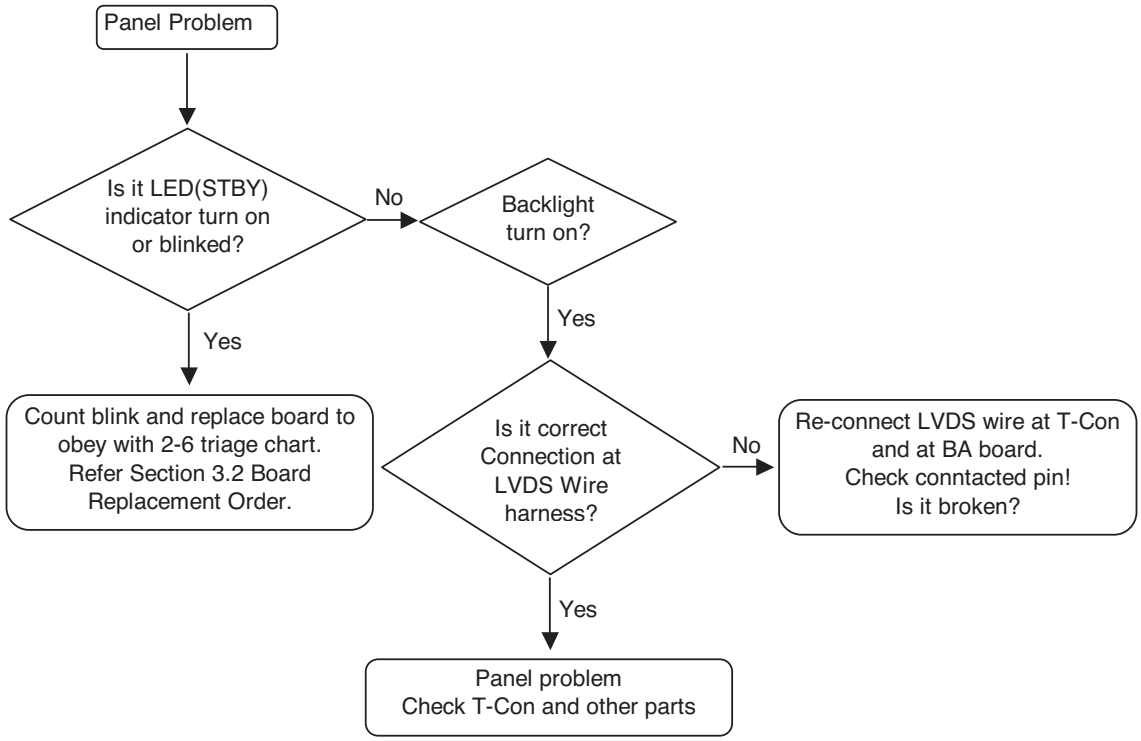
3-1-2. Flowchart B



3-1-3. Flowchart C

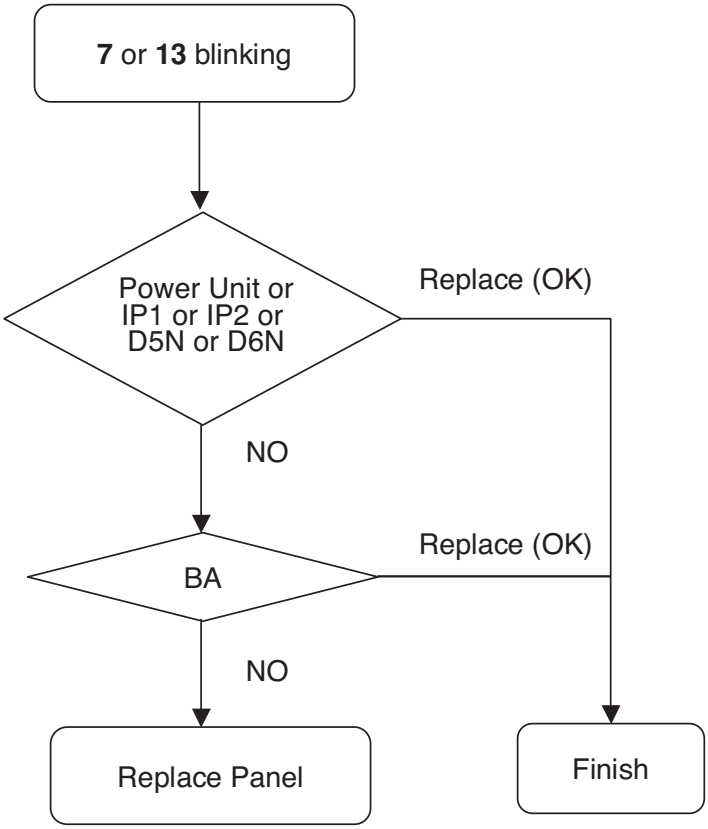


3-1-4. Flowchart D

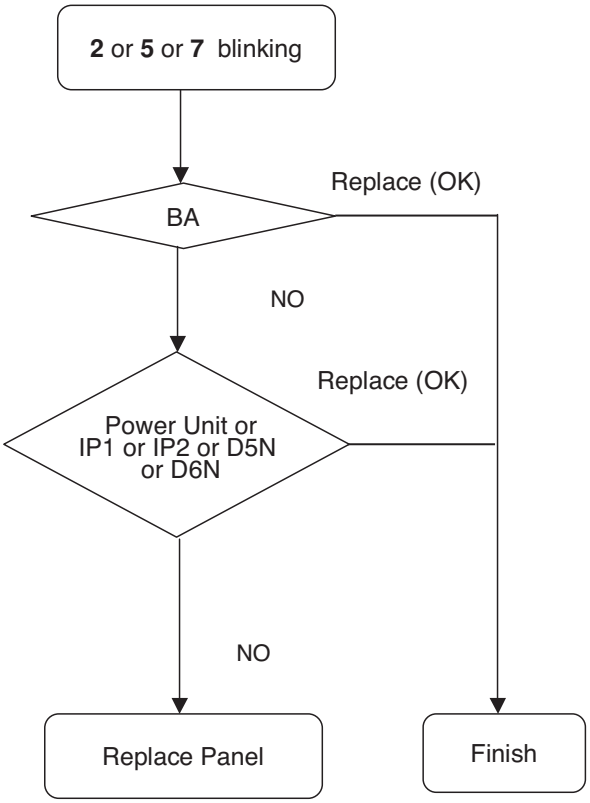


3.2 Board Replacement Order

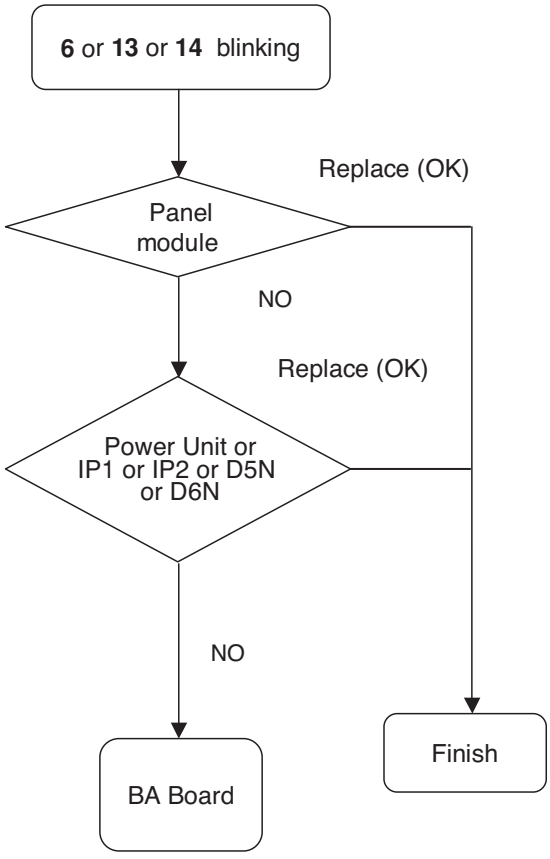
3-2-1. In case of most doubtful part is Power Board



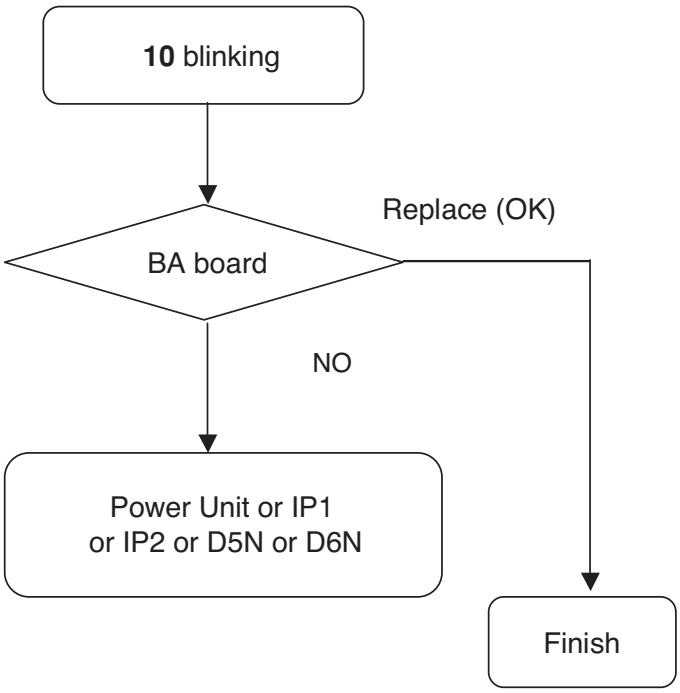
3-2-2. In case of most doubtful part is BA Board



3-2-3. In case of most doubtful part is Panel module, T-con Board



3-2-4. In case of most doubtful part is BA Board



SECTION 4
DISASSEMBLY

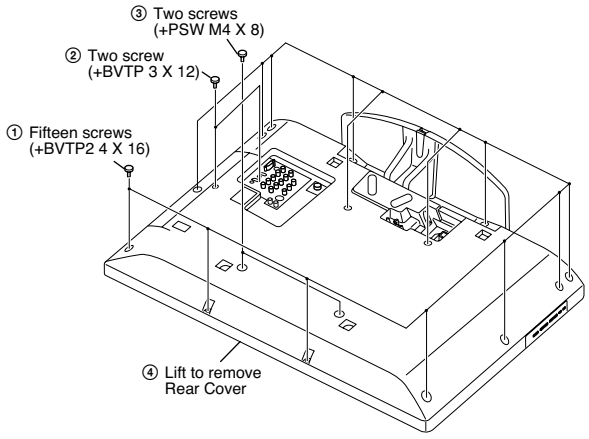
Note:

1) The illustrations provided in this section might have slight difference from actual sets.

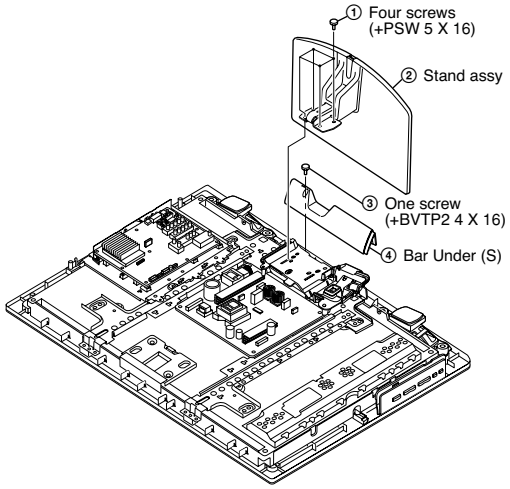
2) Refer to Removal & Installation of Rear Cover and Switch Unit Procedure in Section 1 Safety Notes.

4-1. KLV-32 V530A, V550A, V550A/R, V550A/W

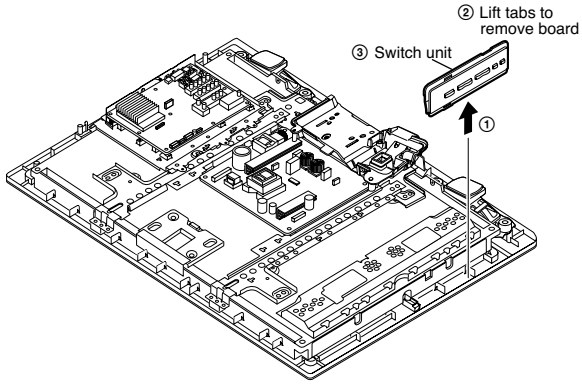
4-1-1. Rear Cover Removal



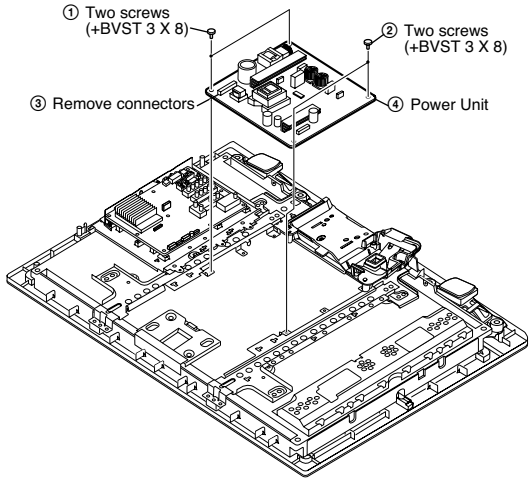
4-1-2. Stand Assy Removal



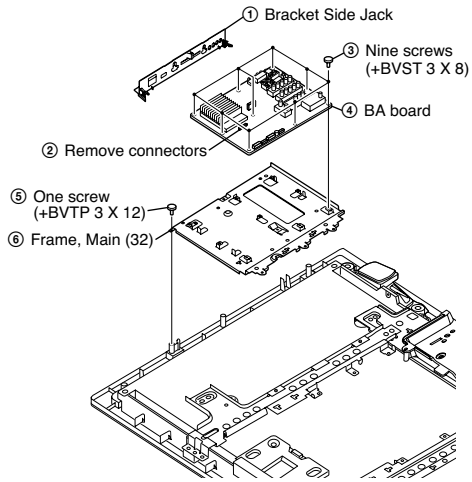
4-1-3. Switch Unit Removal



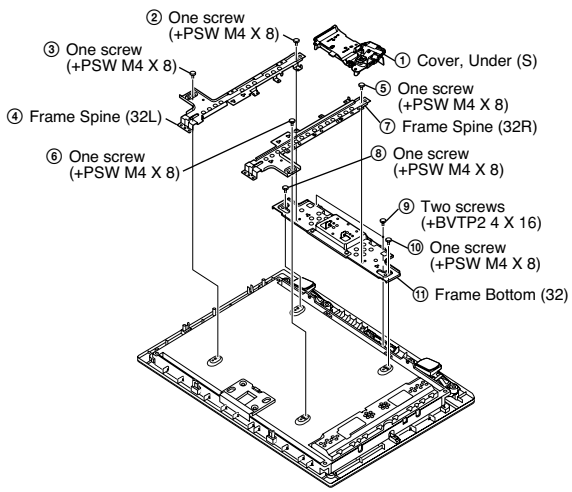
4-1-4. Power Unit Removal



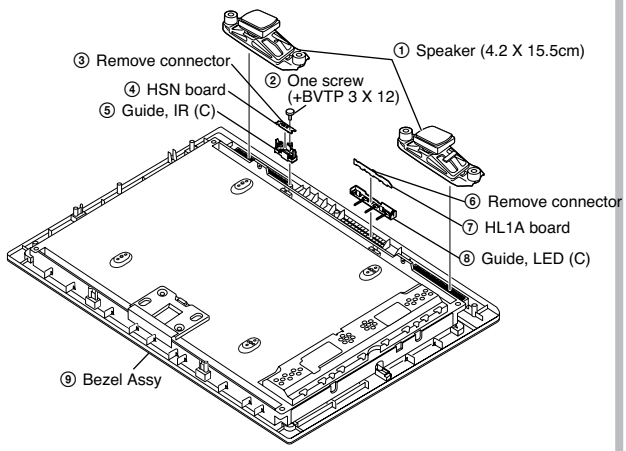
4-1-5. BA Board Removal



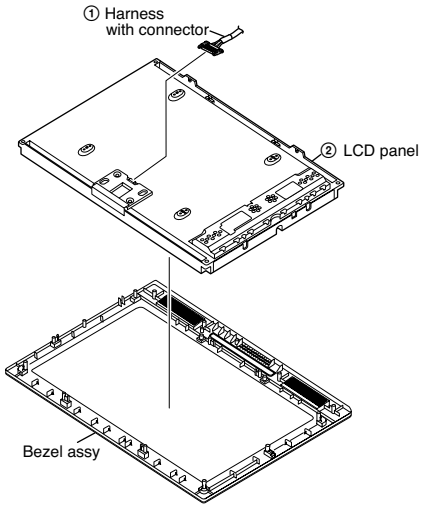
4-1-6. Frame Removal



4-1-7. Speaker, HSN and HL1A boards Removal

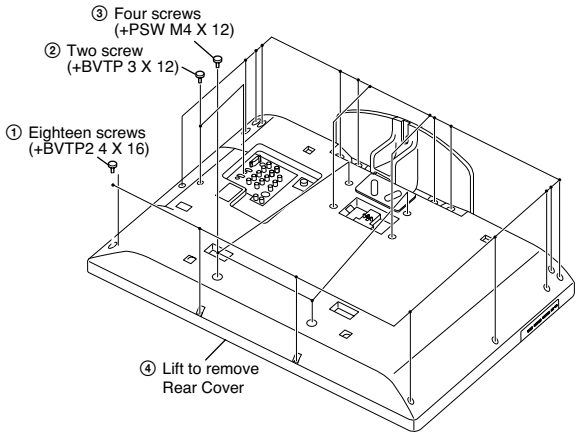


4-1-8. Panel Removal

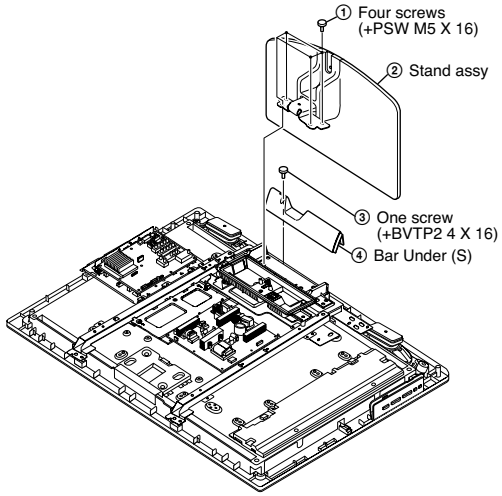


4-2. KLV-40 V530A, V550A, V550A/R, V550A/W

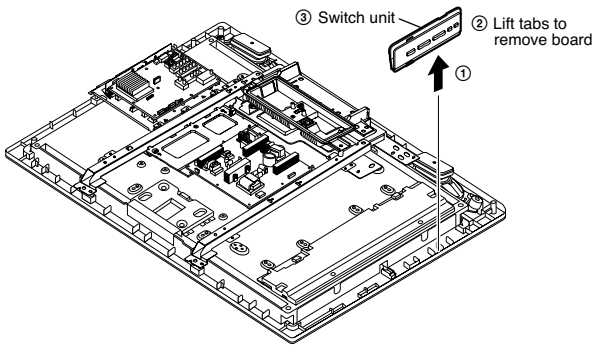
4-2-1. Rear Cover Removal



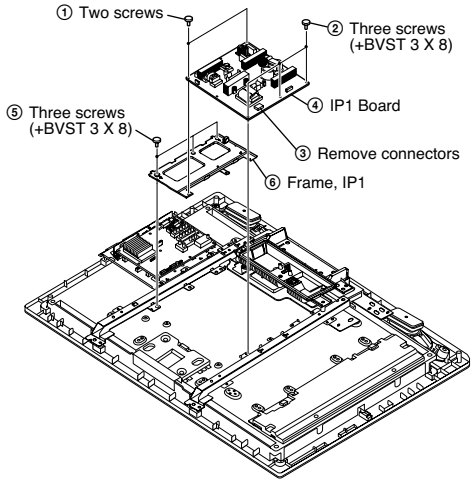
4-2-2. Stand Assy Removal



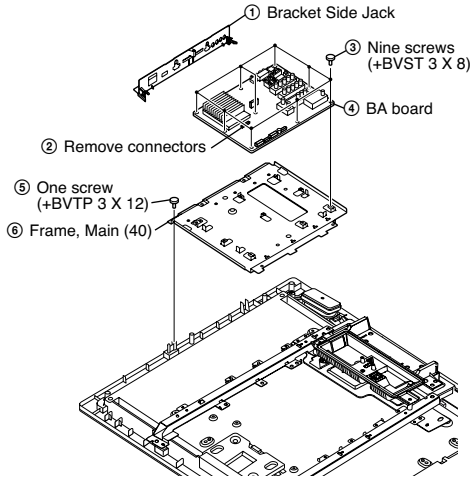
4-2-3. Switch Unit Removal



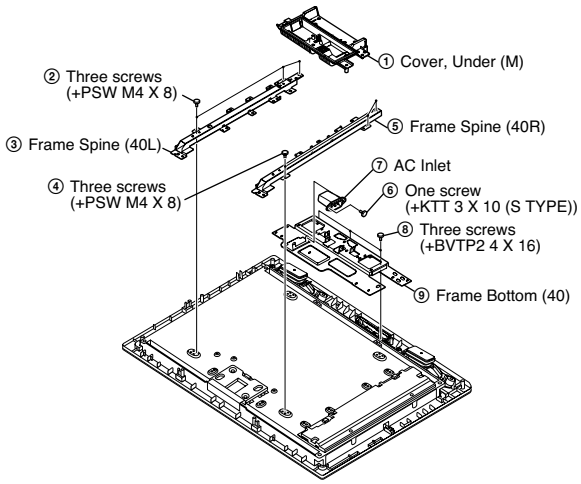
4-2-4. IP1 Board Removal



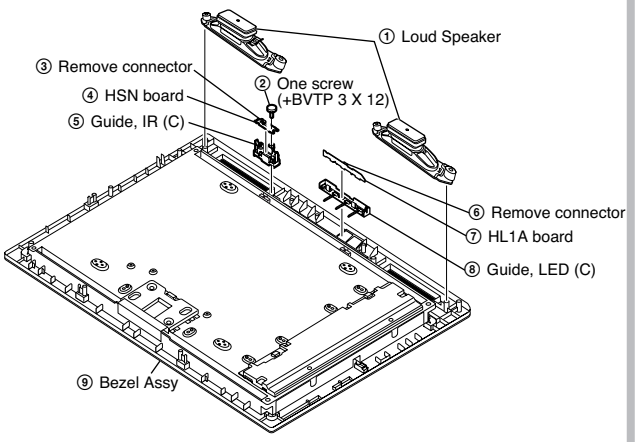
4-2-5. BA Board Removal



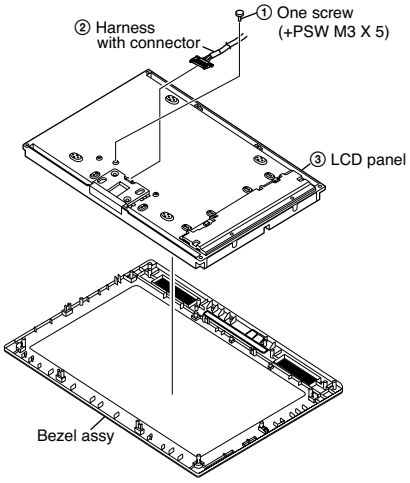
4-2-6. Frame Removal



4-2-7. Speaker, HSN and HL1A boards Removal

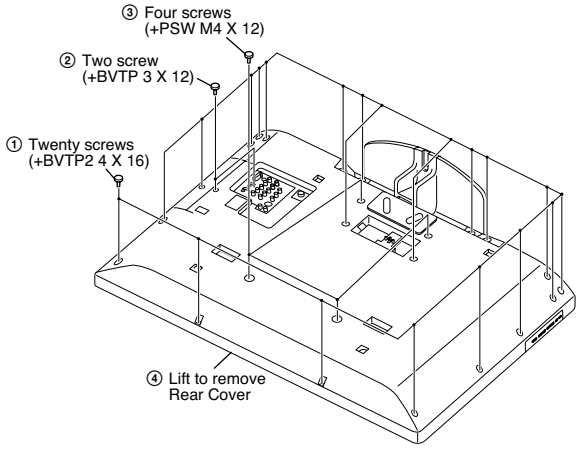


4-2-8. Panel Removal

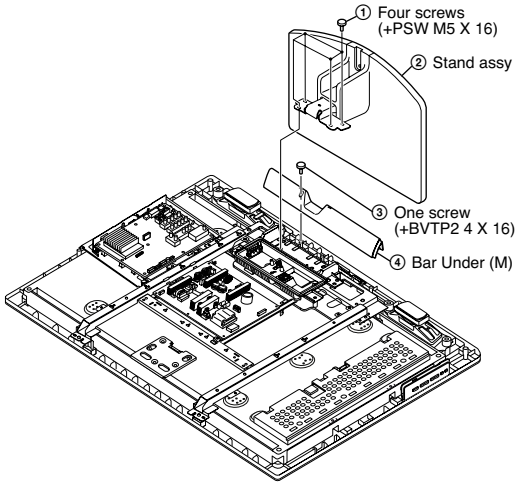


4-3. KLV-46V550A

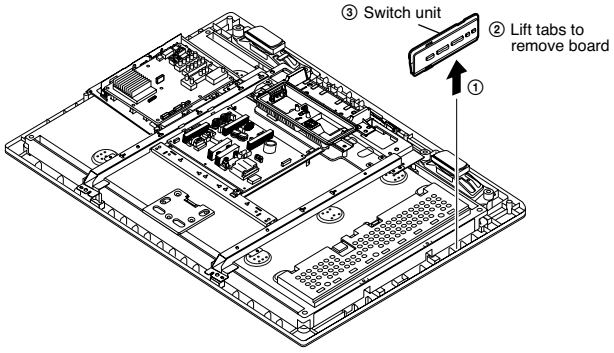
4-3-1. Rear Cover Removal



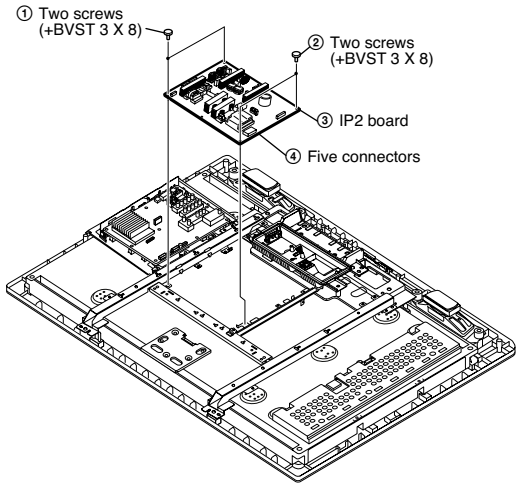
4-3-2. Stand Assy Removal



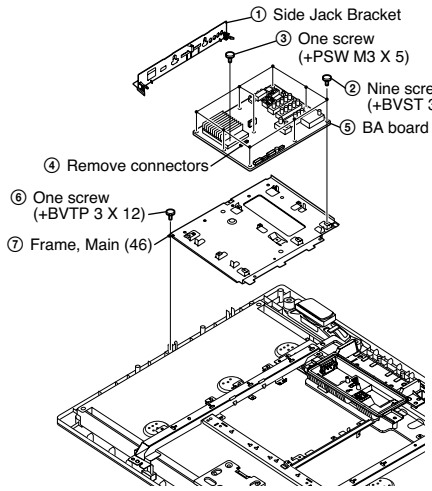
4-3-3. Switch Unit Removal



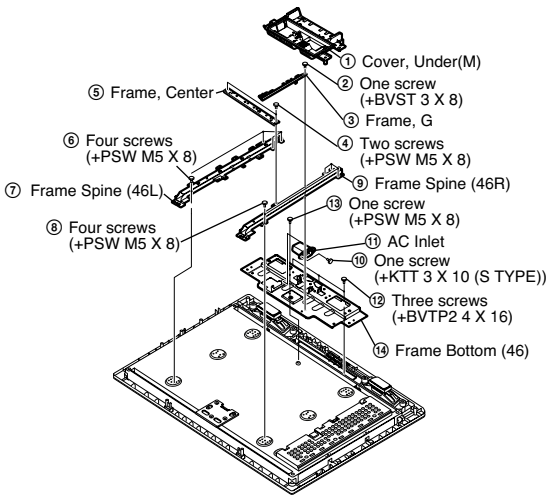
4-3-4. IP2 Board Removal



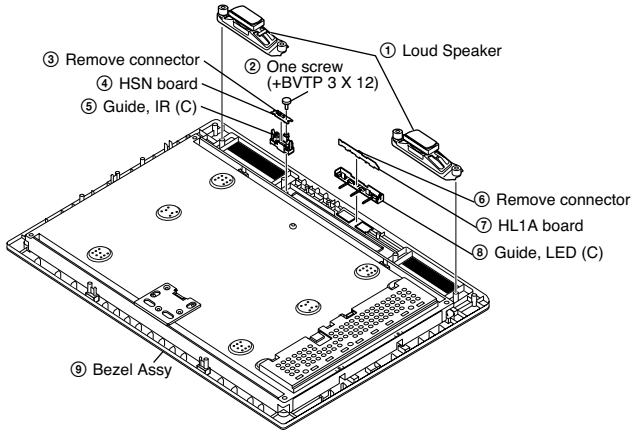
4-3-5. BA Board Removal



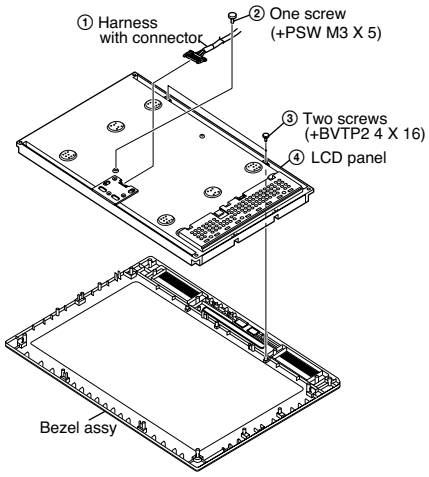
4-3-6. Frame Removal



4-3-7. Speaker, HSN and HL1A boards Removal

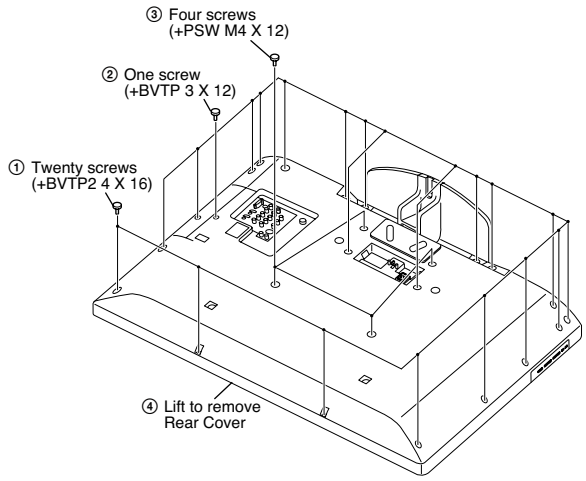


4-3-8. Panel Removal

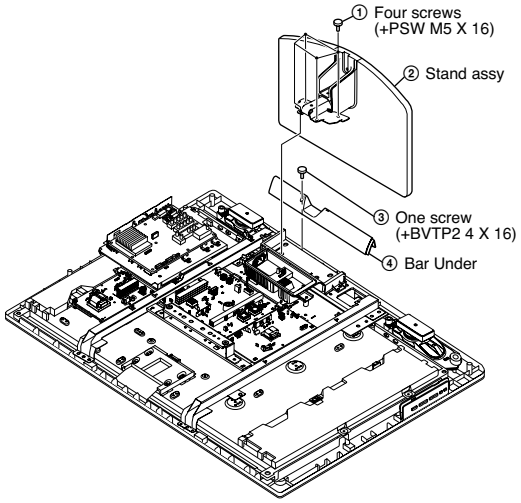


4-4. KLV-52V550A

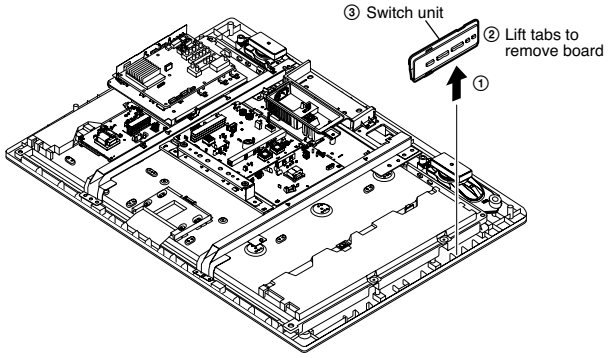
4-4-1. Rear Cover Removal



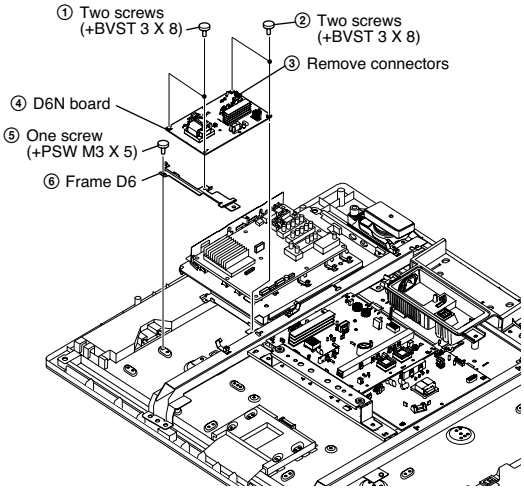
4-4-2. Stand Assy Removal



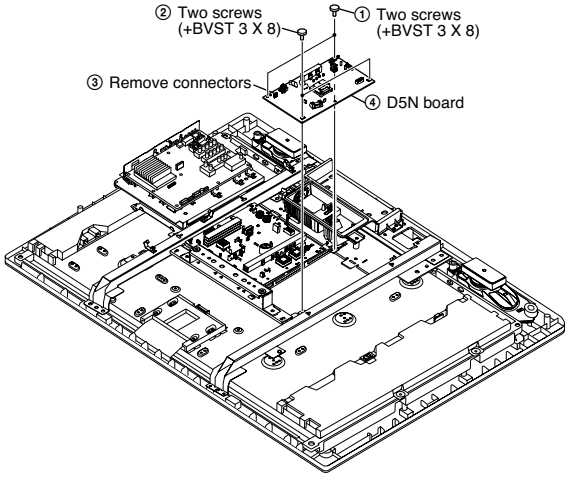
4-4-3. Switch Unit Removal



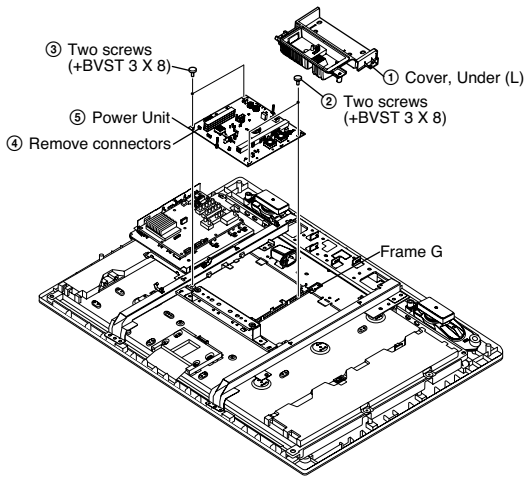
4-4-4. D6N Board Removal



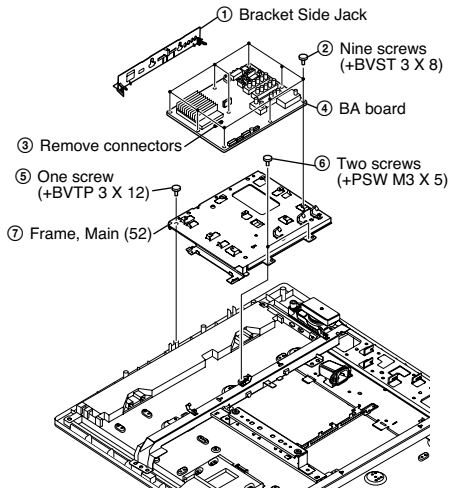
4-4-5. D5N Board Removal



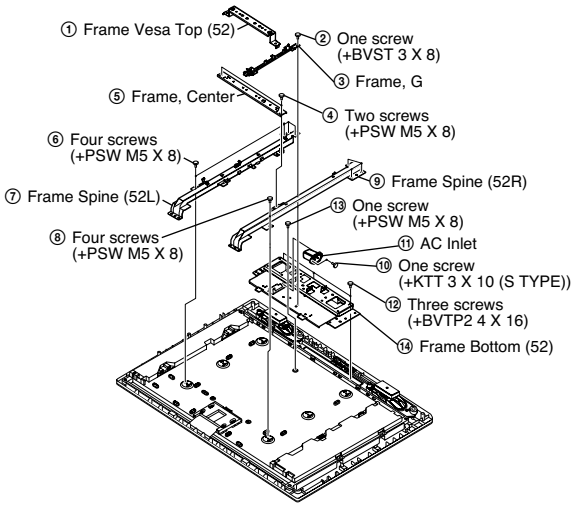
4-4-6. Power Unit Board Removal



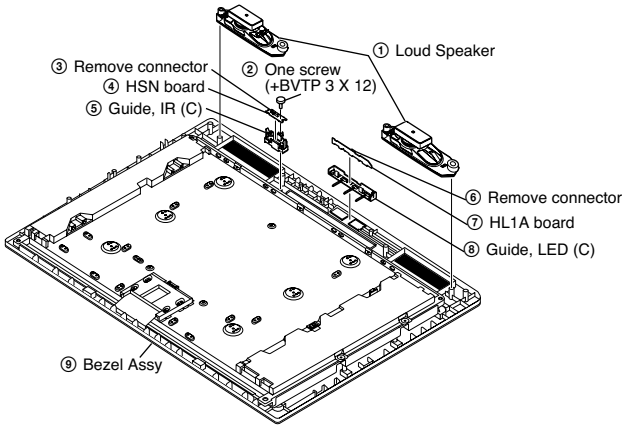
4-4-7. BA Board Removal



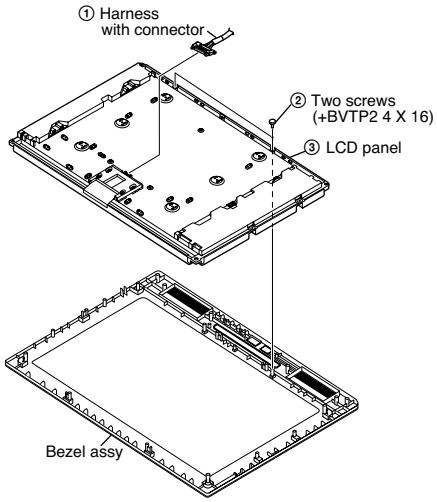
4-4-8. Frame Removal



4-4-9. Speaker, HSN and HL1A boards Removal



4-4-10. Panel Removal

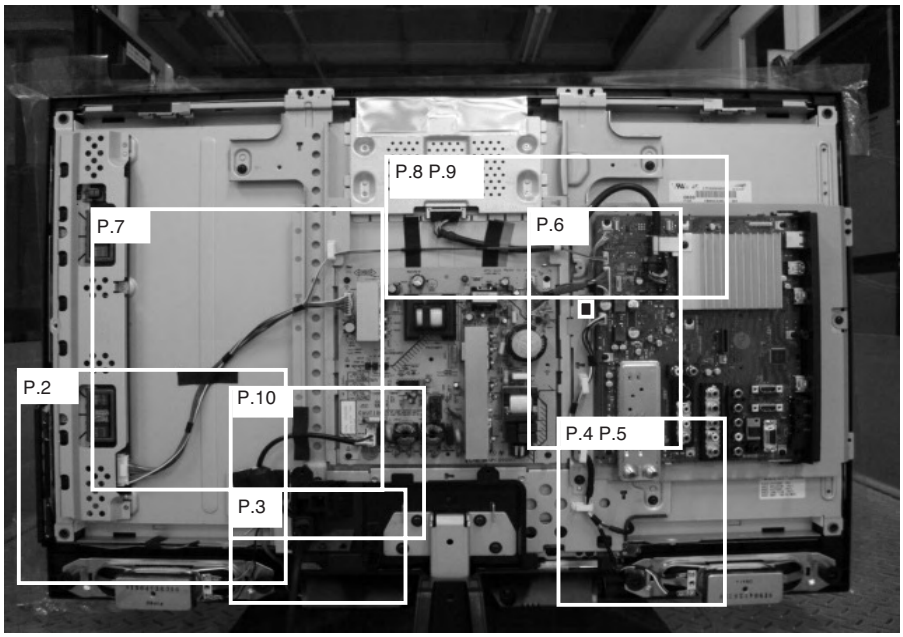


SECTION 5
WIRE DRESSING

CAUTION :
1. Do not overpull the wires during dressing --> avoid disconnection of wires.
2. Make sure wires are kept away from sharp edges, heatsinks & other high-temperature parts.

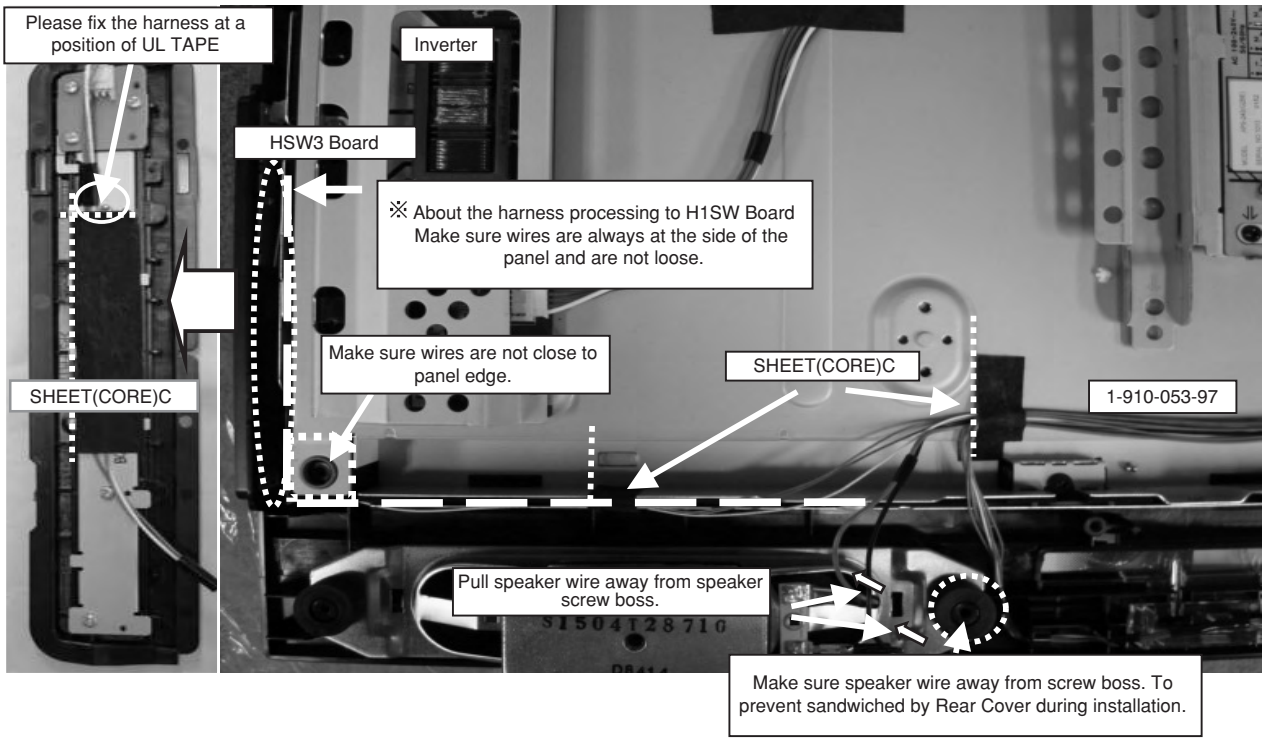
5-1. KLV-32 V530A, V550A, V550A/R, V550A/W

5-1-1. Wire Dressing Overview

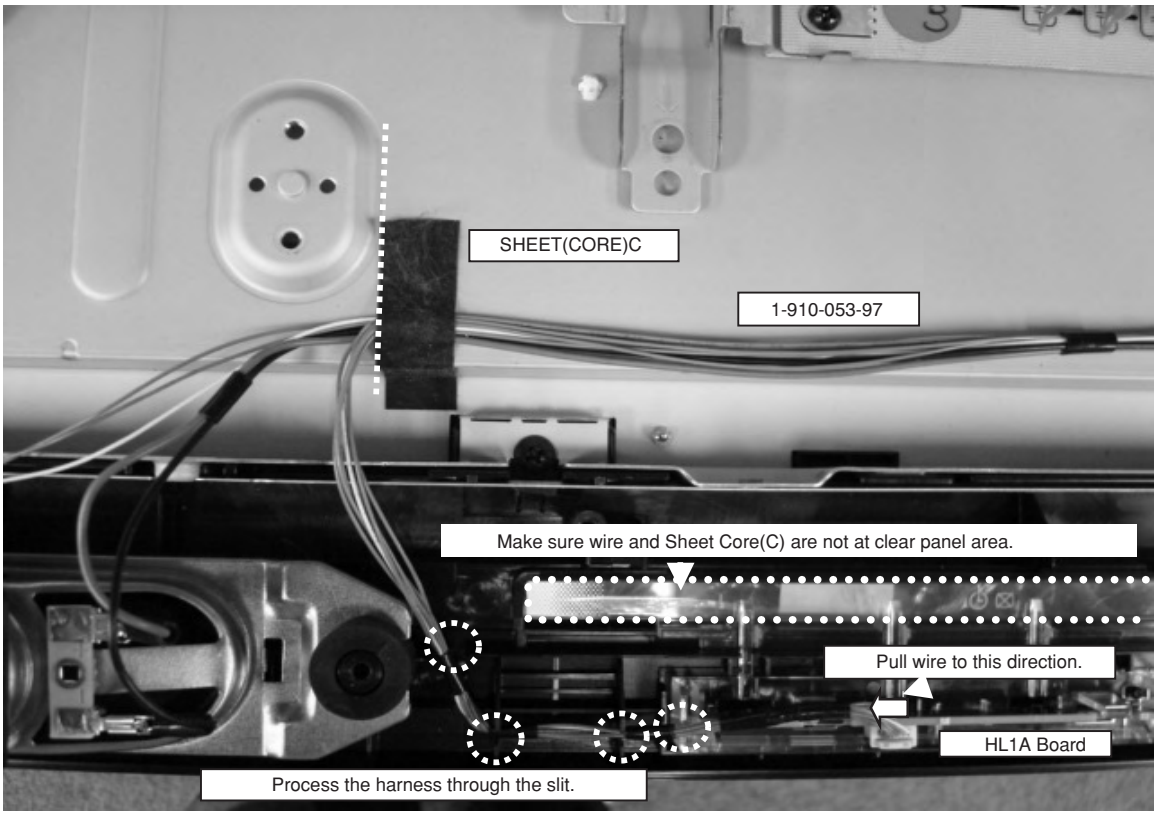


Note:
For details of each area dressing, refer to area information

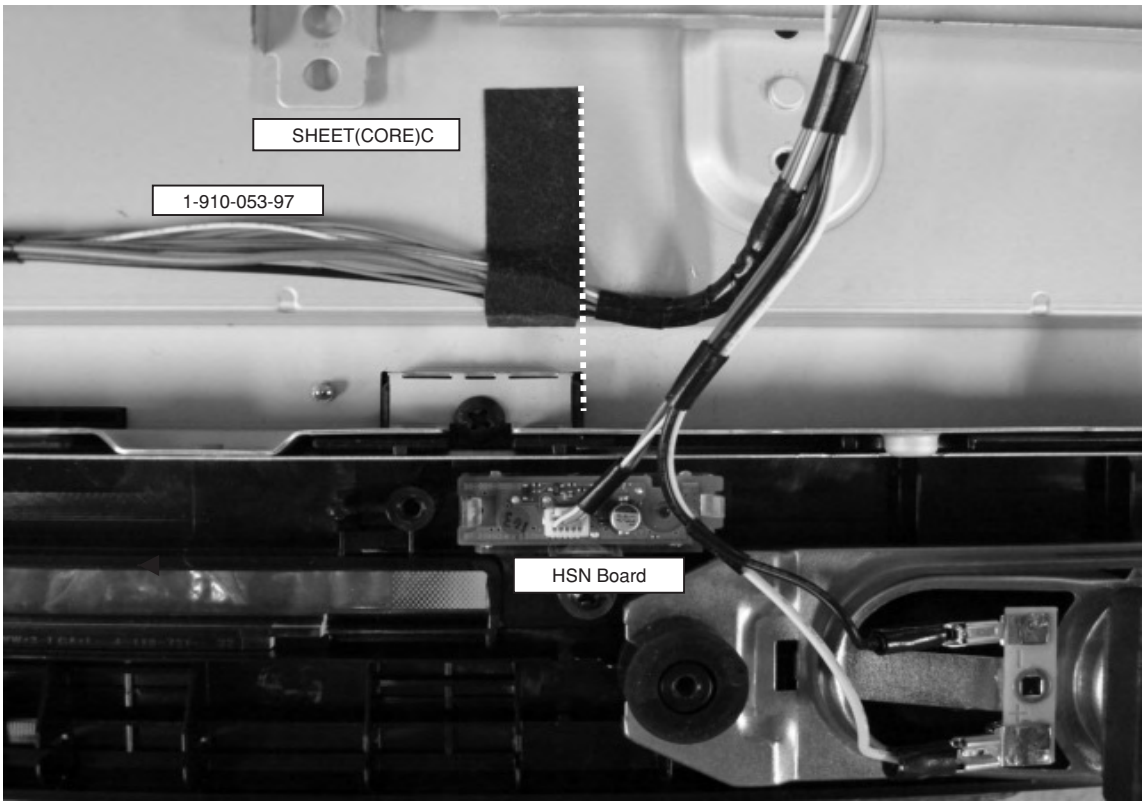
5-1-2. P.2 Area



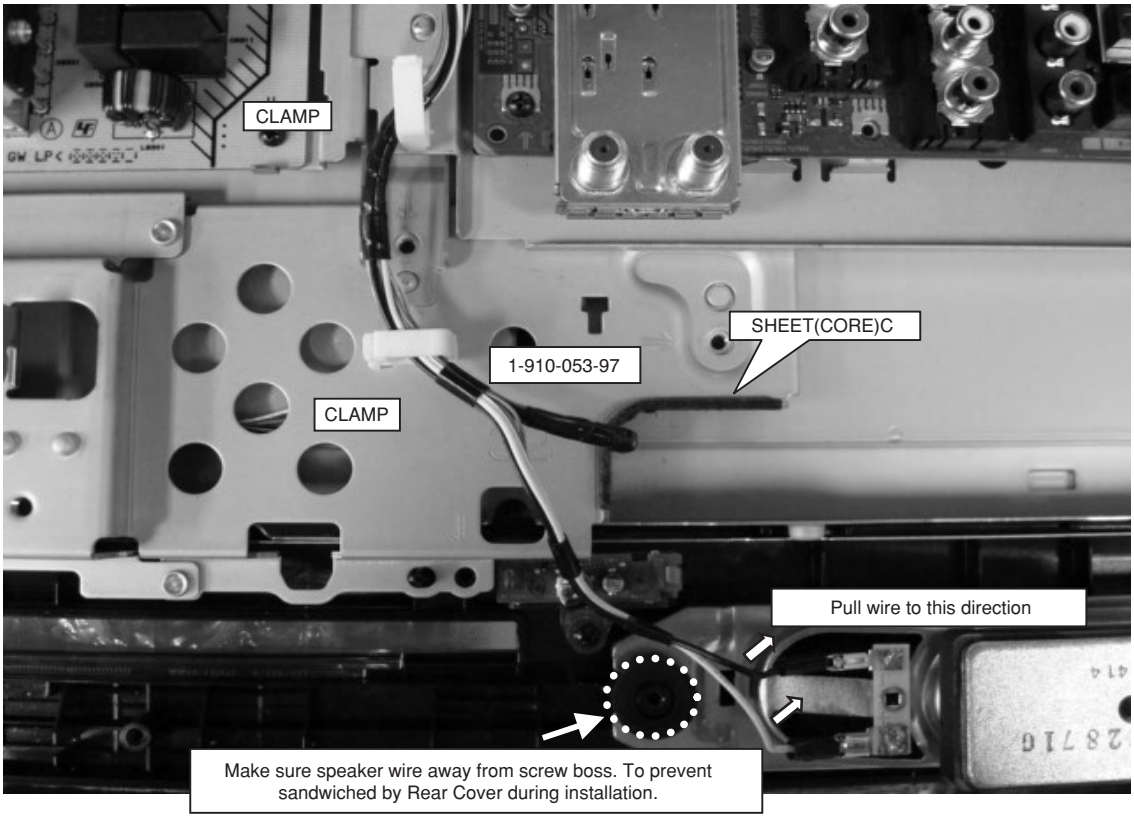
5-1-3. P.3 Area



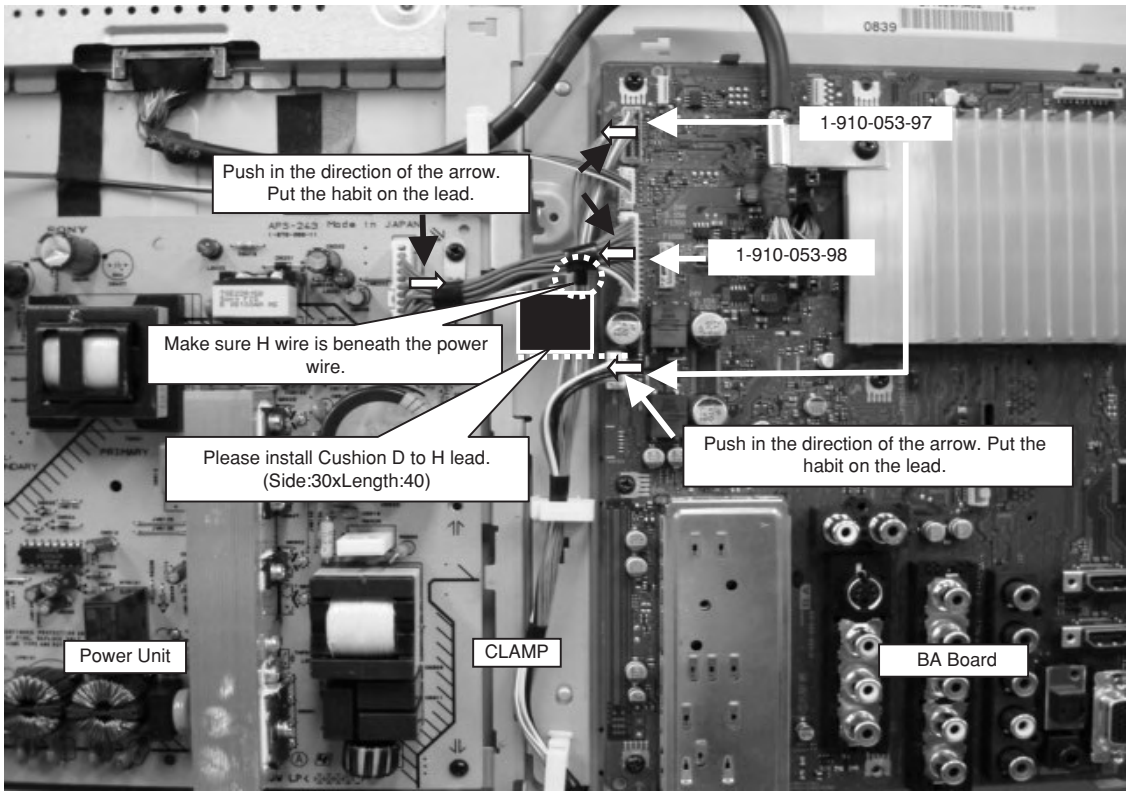
5-1-4. P.4 Area



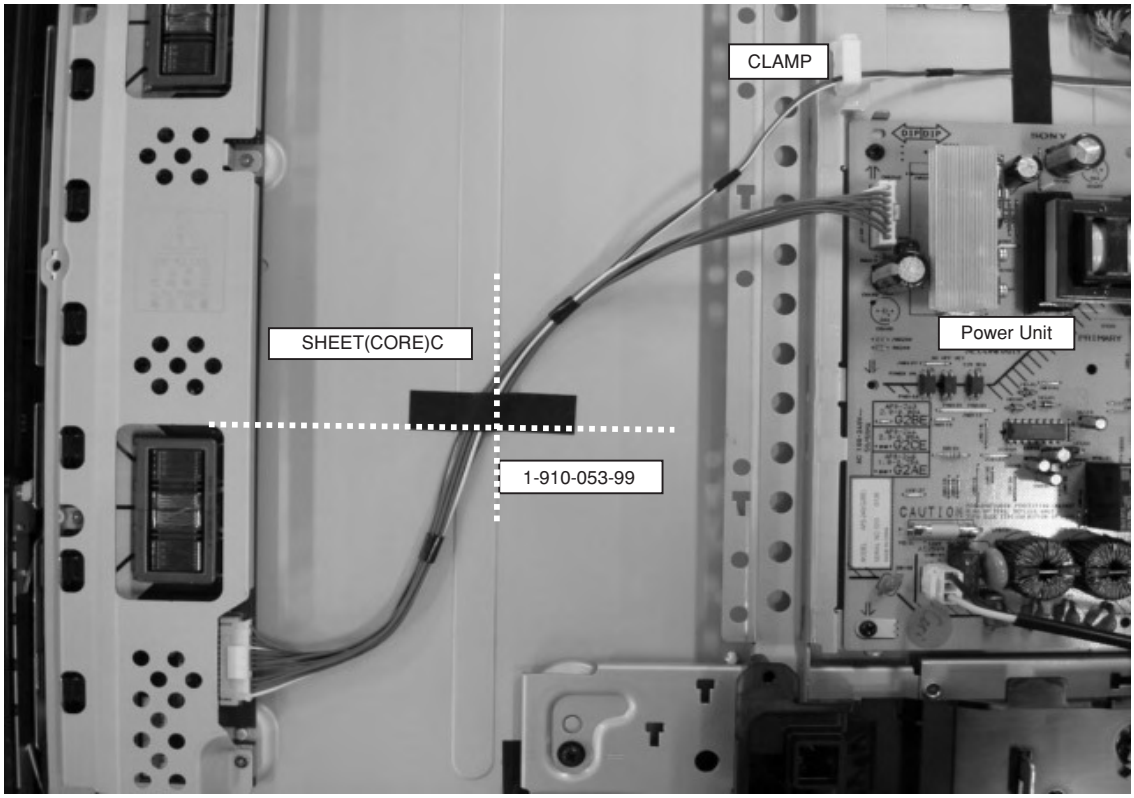
5-1-5. P.5 Area



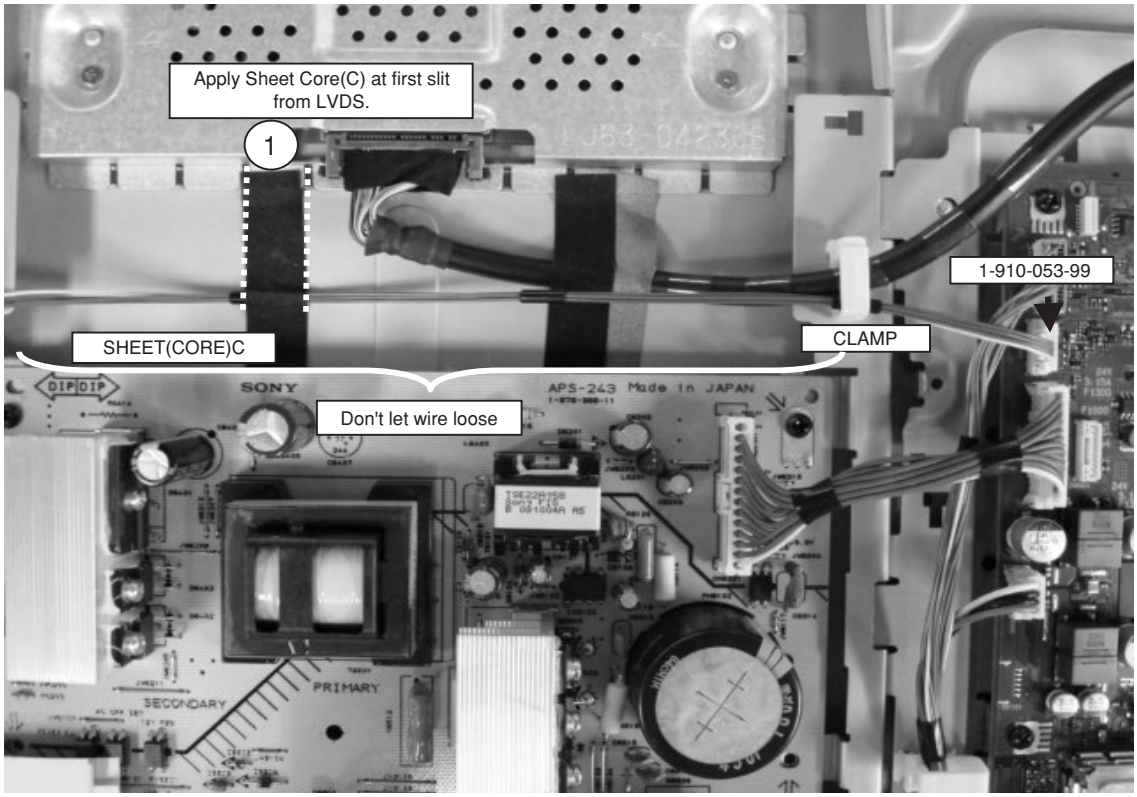
5-1-6. P.6 Area



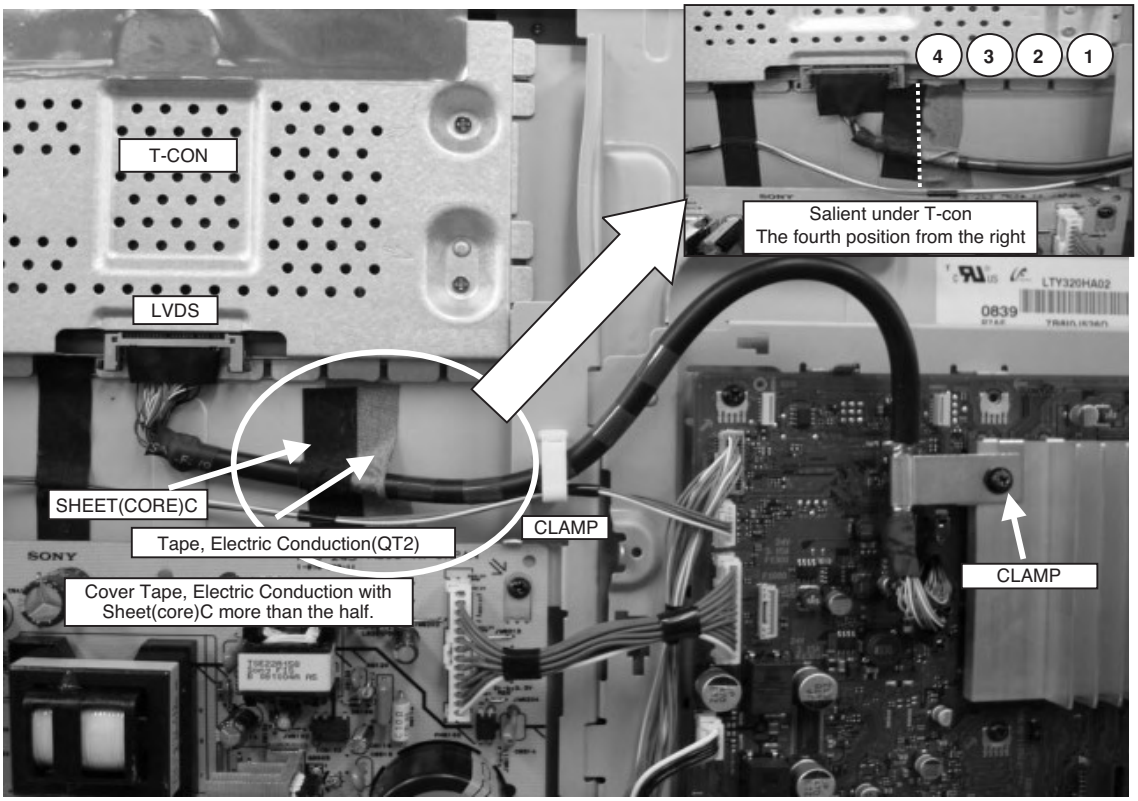
5-1-7. P.7 Area



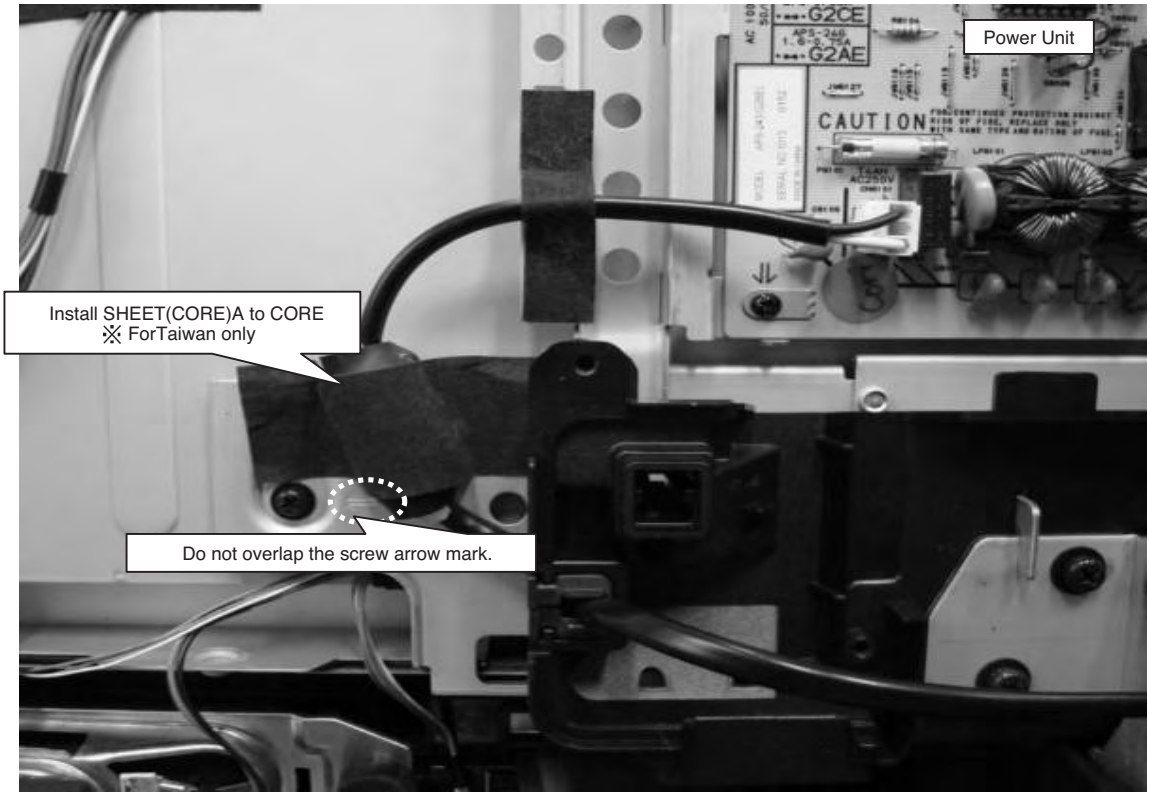
5-1-8. P.8 Area



5-1-9. P.9 Area

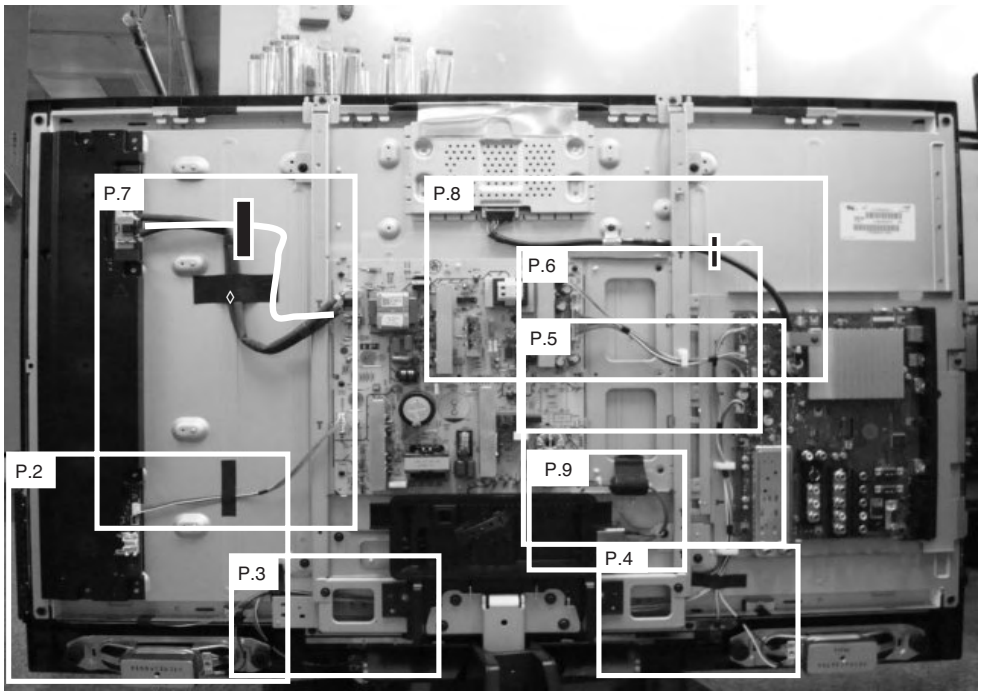


5-1-10. P.10 Area



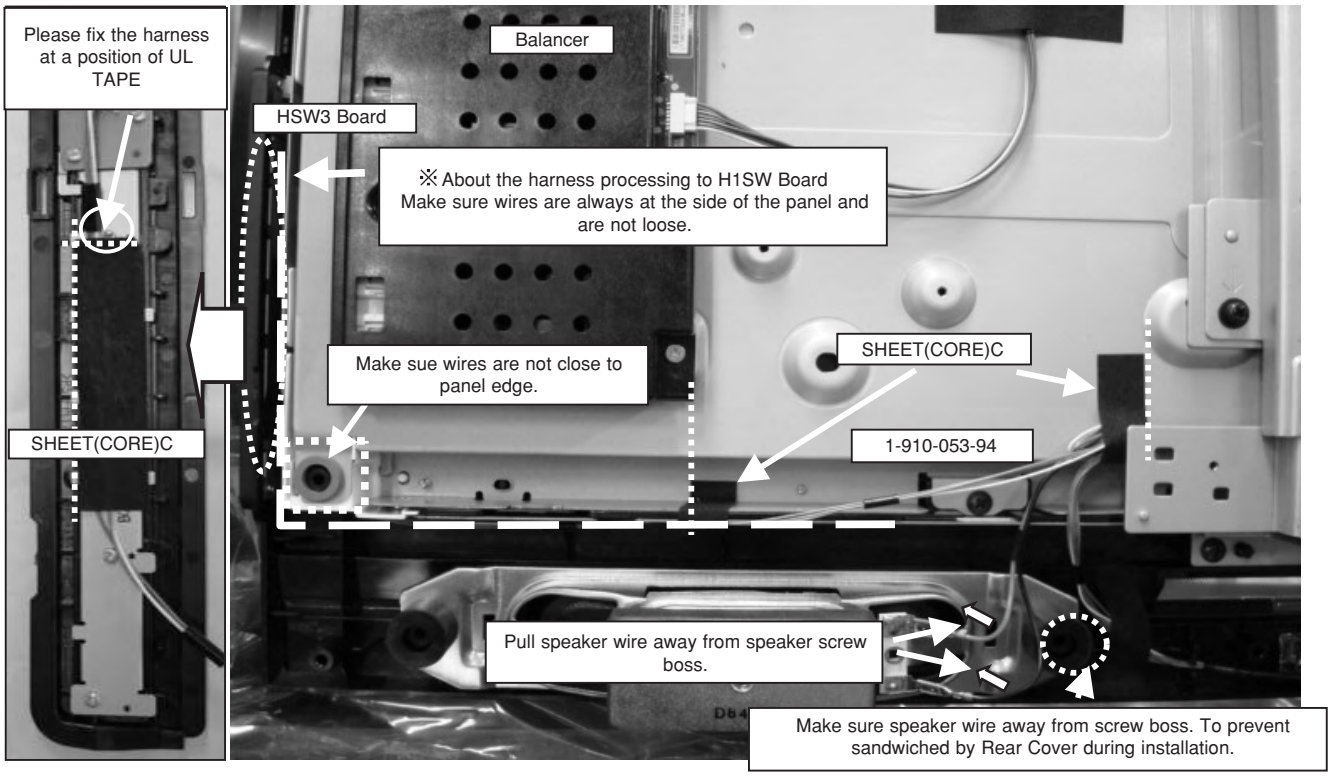
5-2. KLV-40 V530A, V550A, V550A/R, V550A/W

5-2-1. Wire Dressing Overview

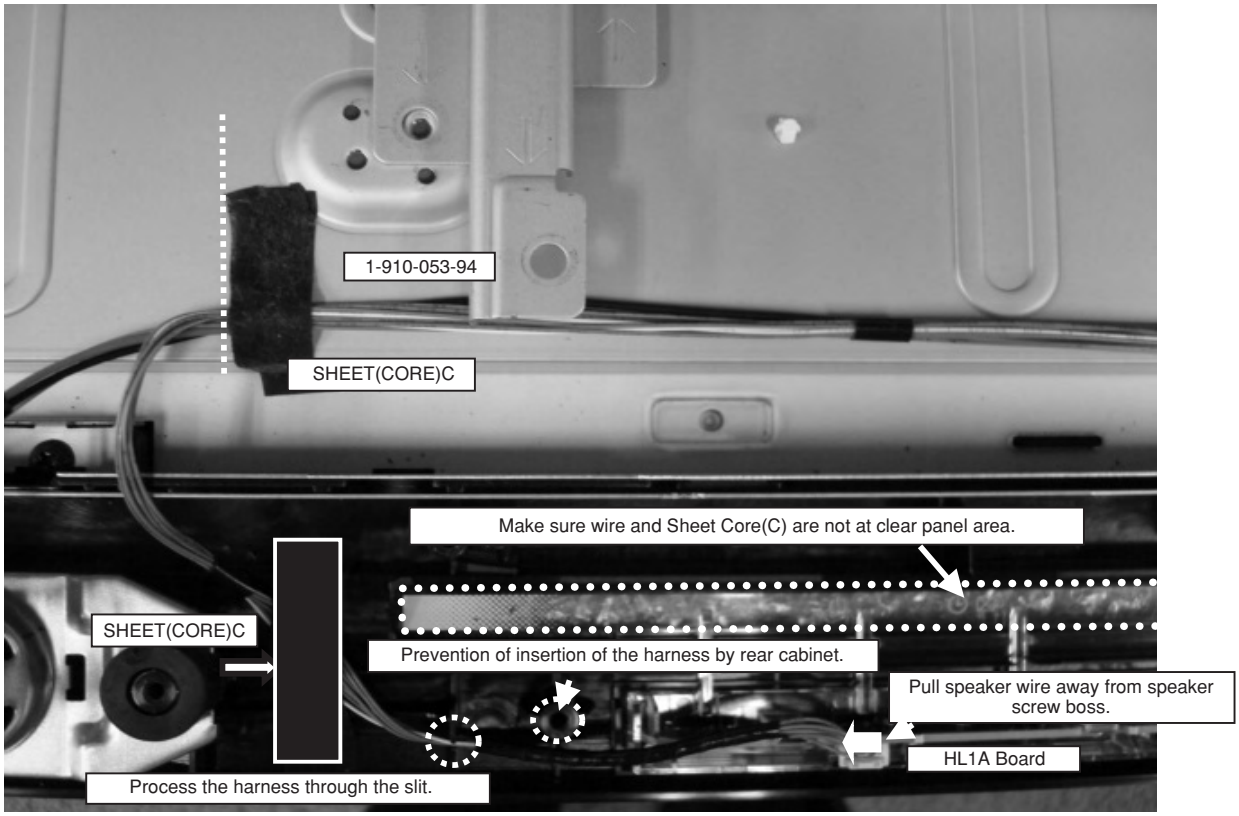


Note:
For details of each area dressing, refer to area information

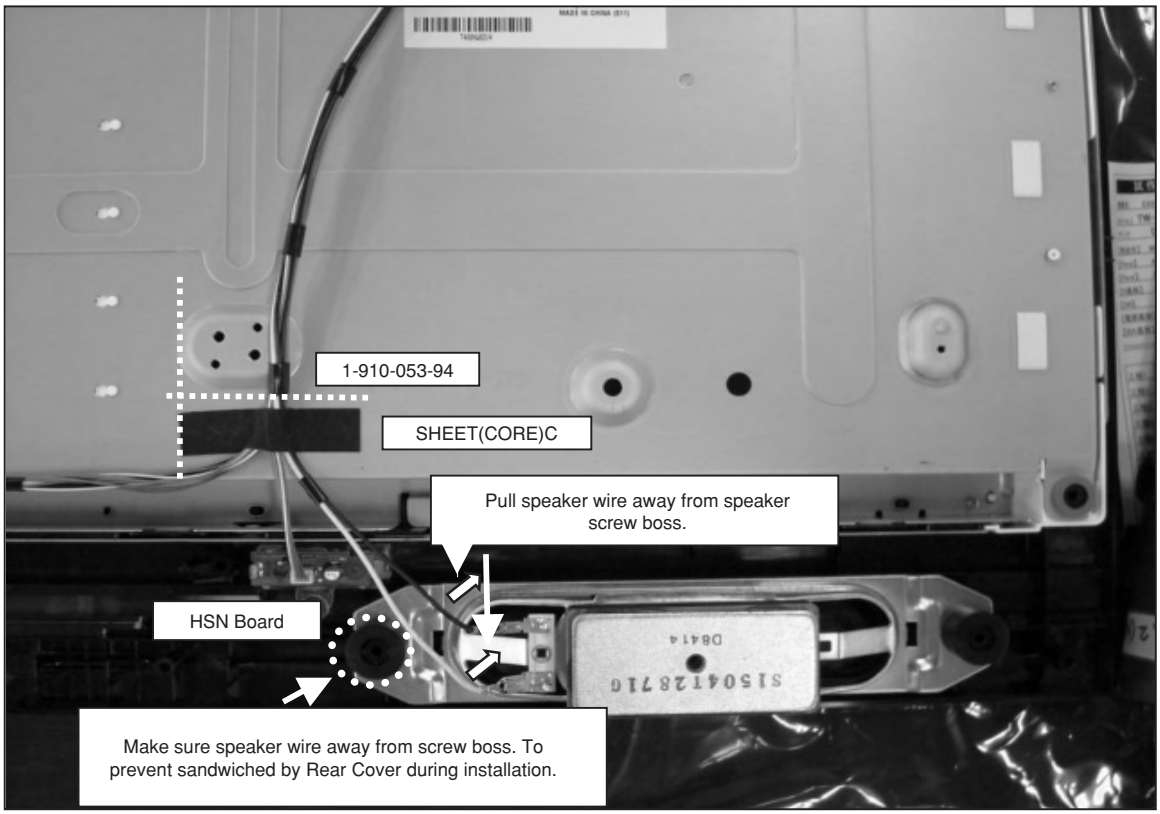
5-2-2. P.2 Area



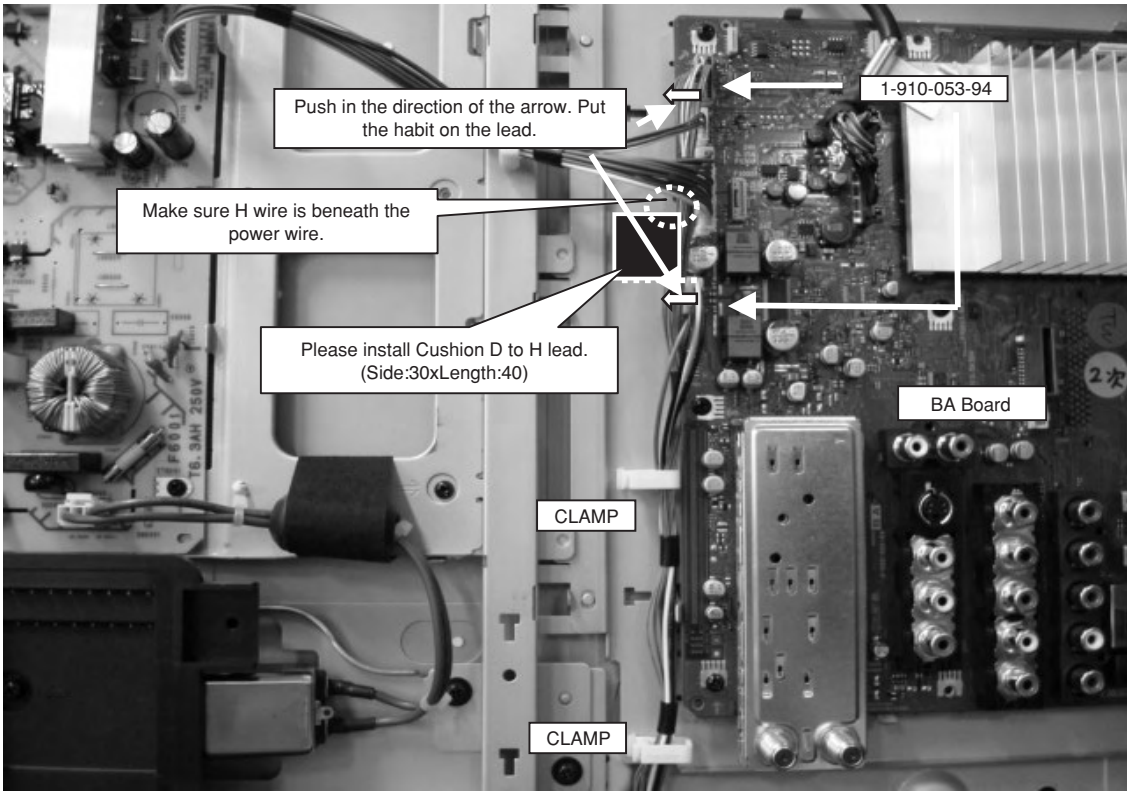
5-2-3. P.3 Area



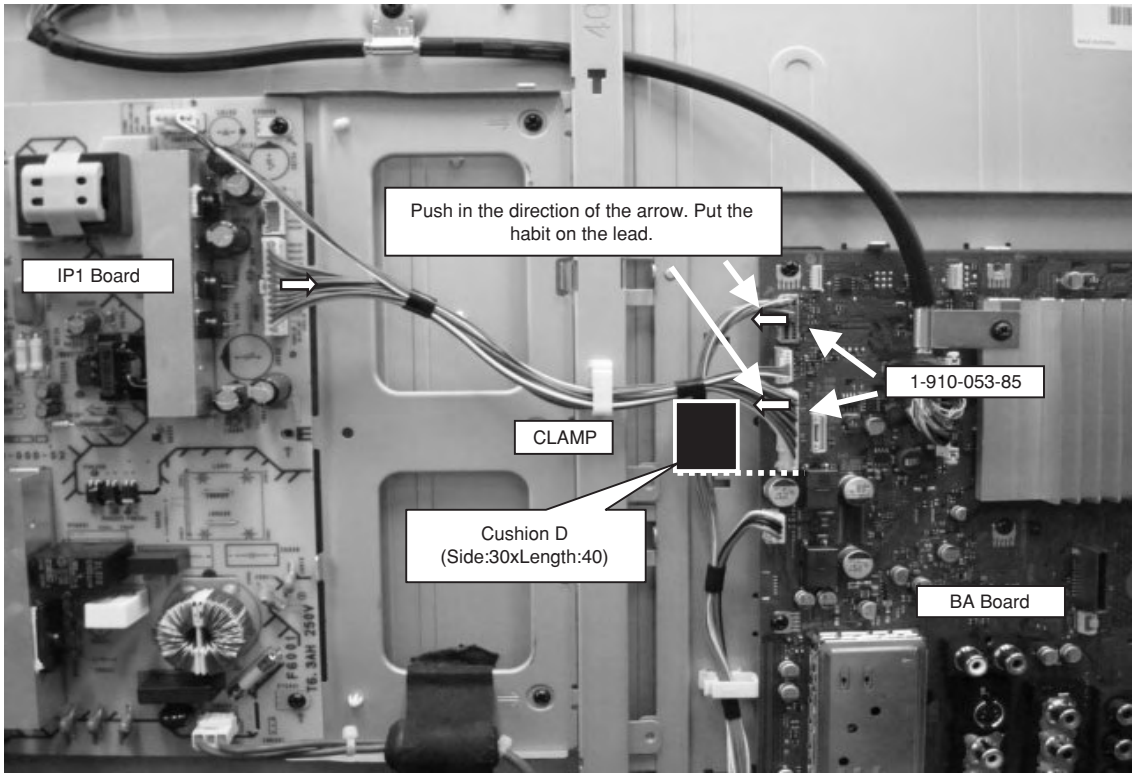
5-2-4. P.4 Area



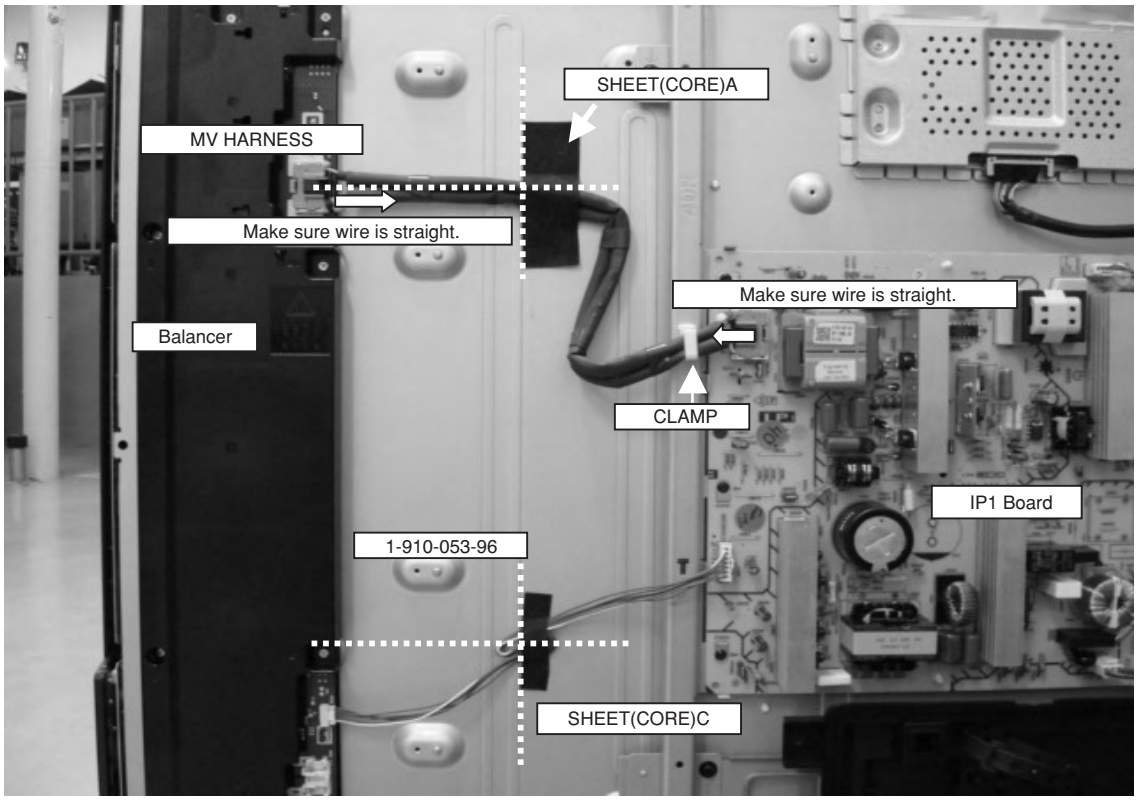
5-2-5. P.5 Area



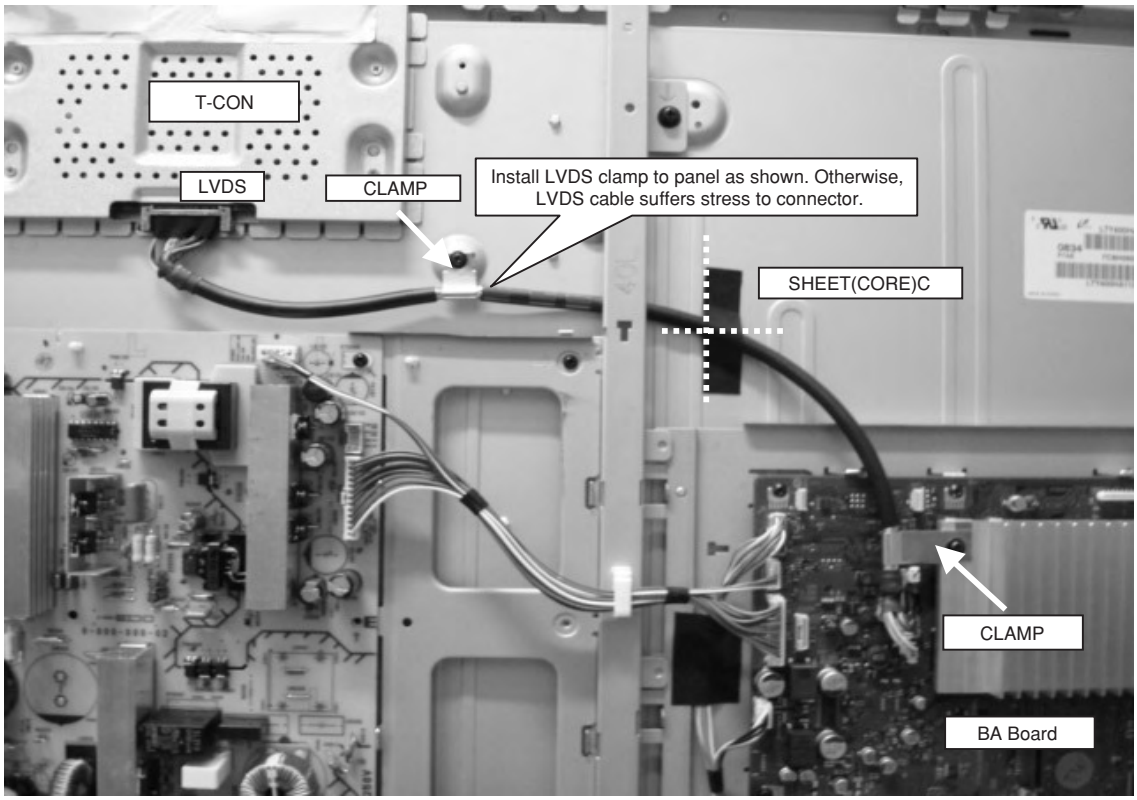
5-2-6. P.6 Area



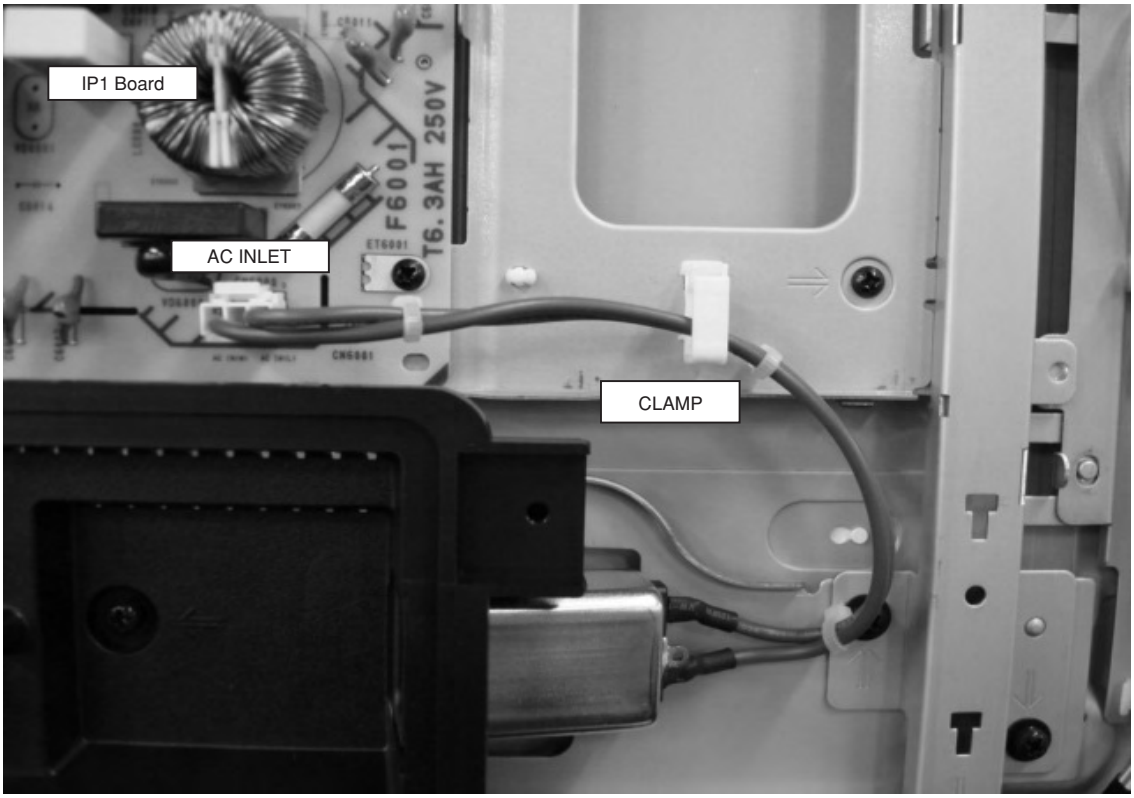
5-2-7. P.7 Area



5-2-8. P.8 Area

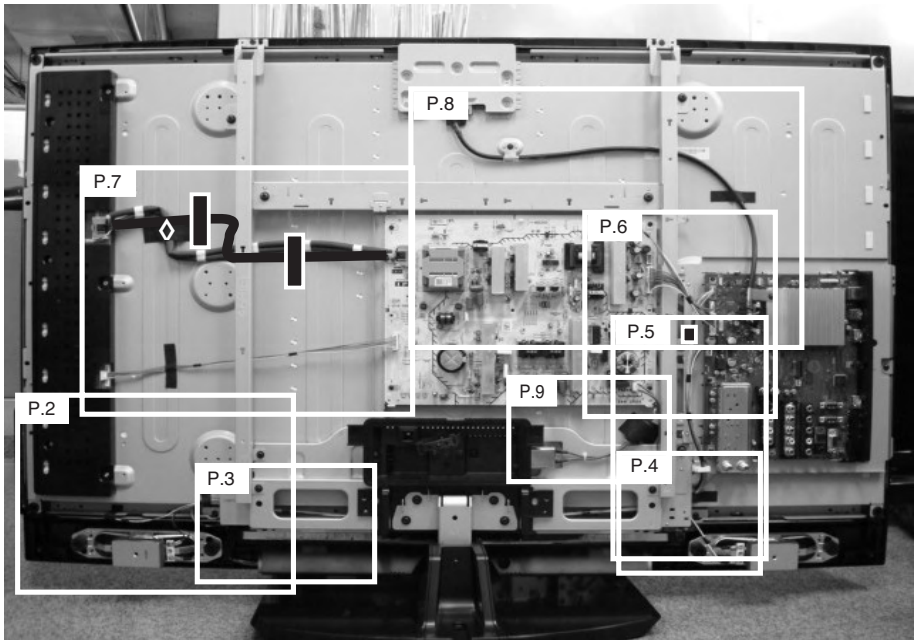


5-2-9. P.9 Area



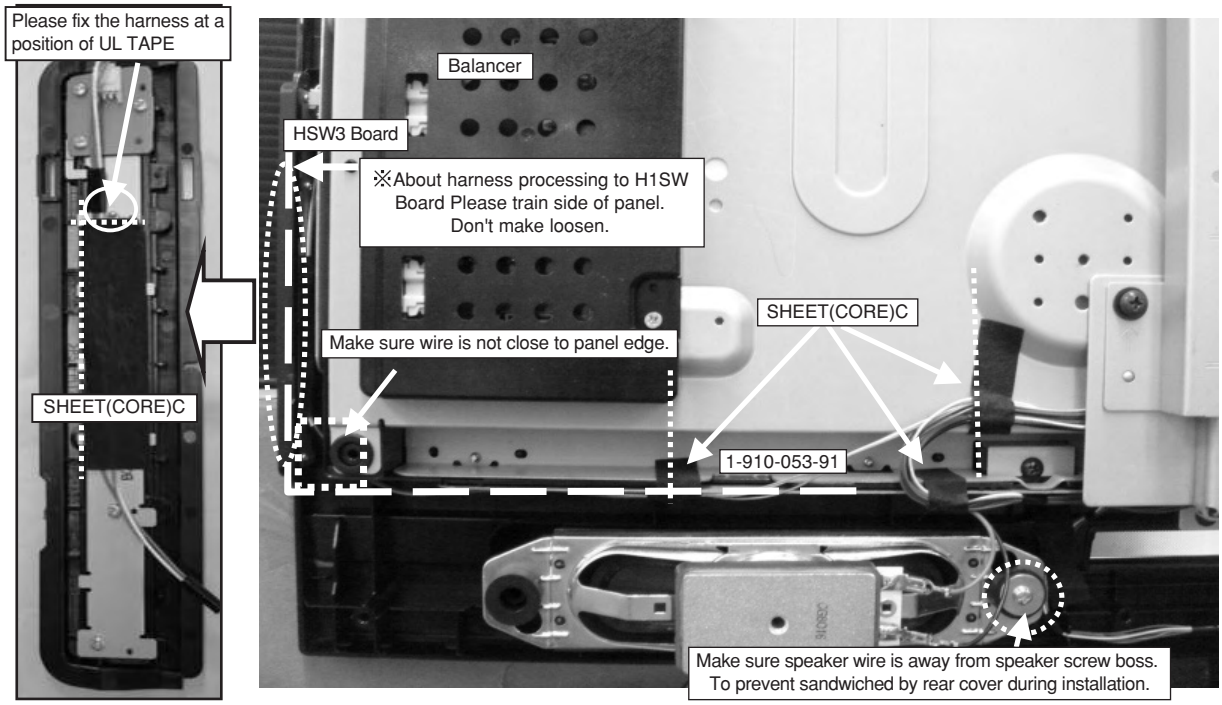
5-3. KLV-46V550A

5-3-1. Wire Dressing Overview

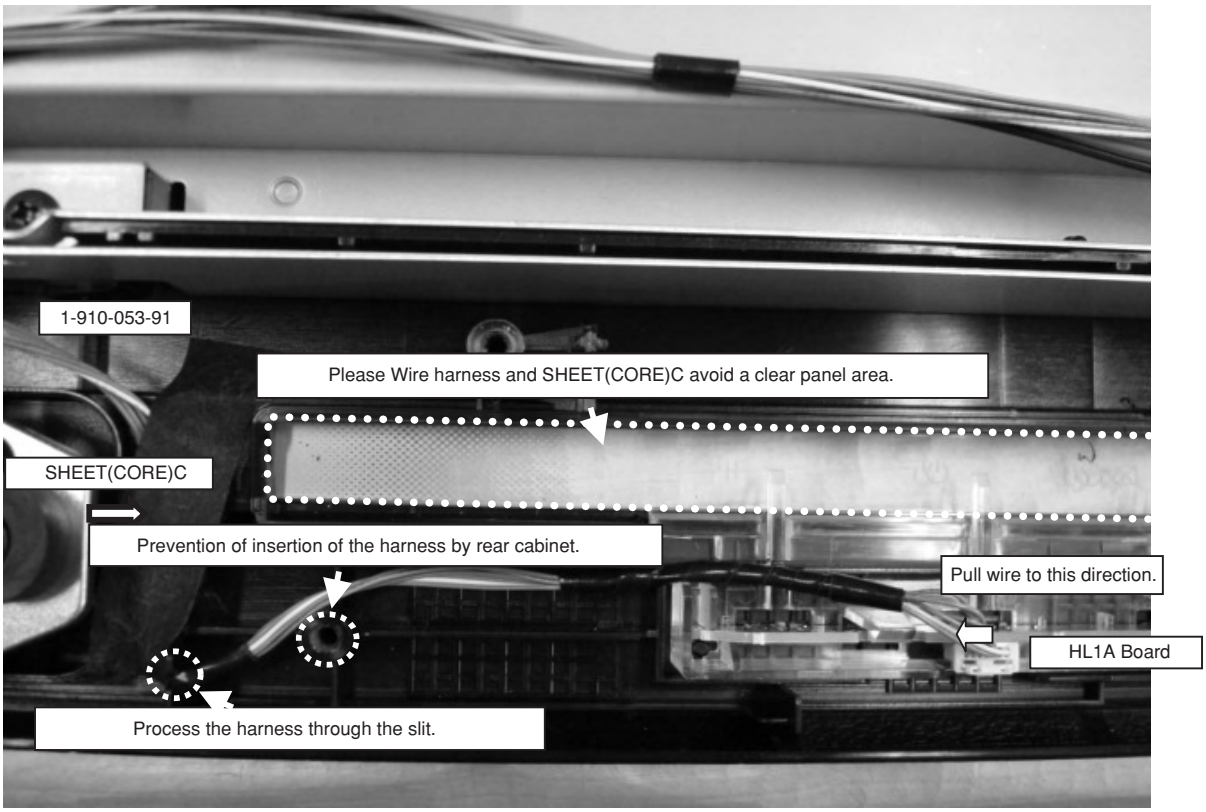


Note:
For details of each area dressing, refer to area information

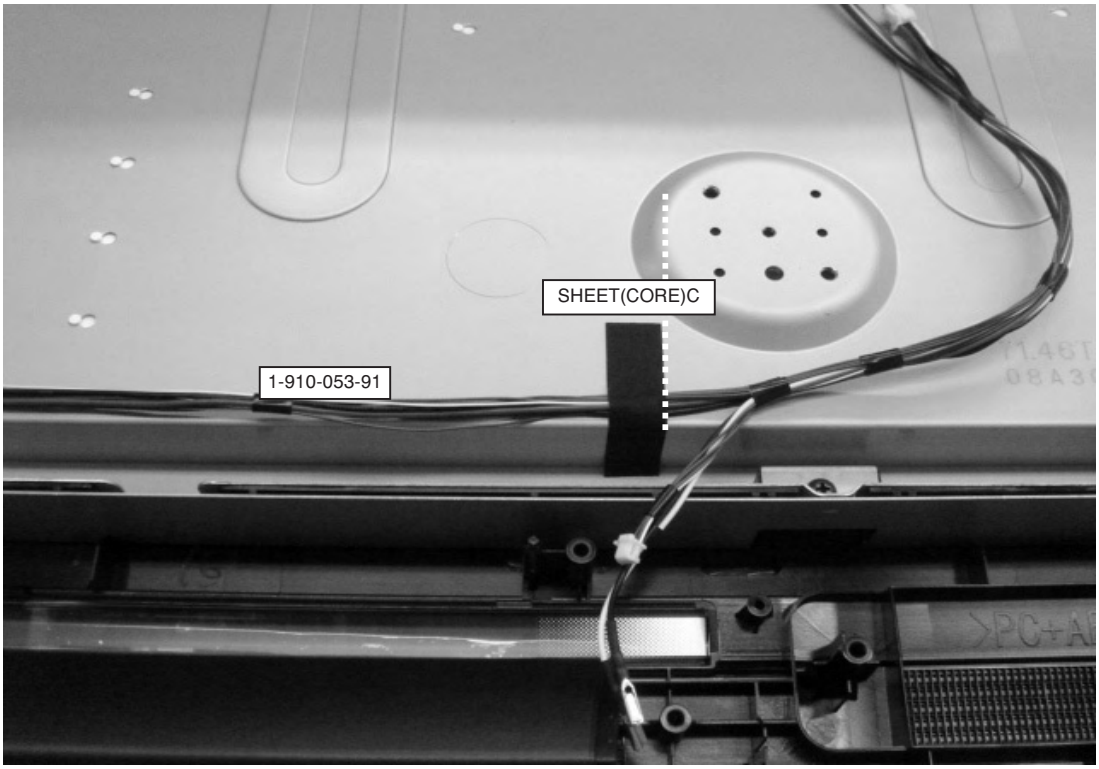
5-3-2. P.2 Area



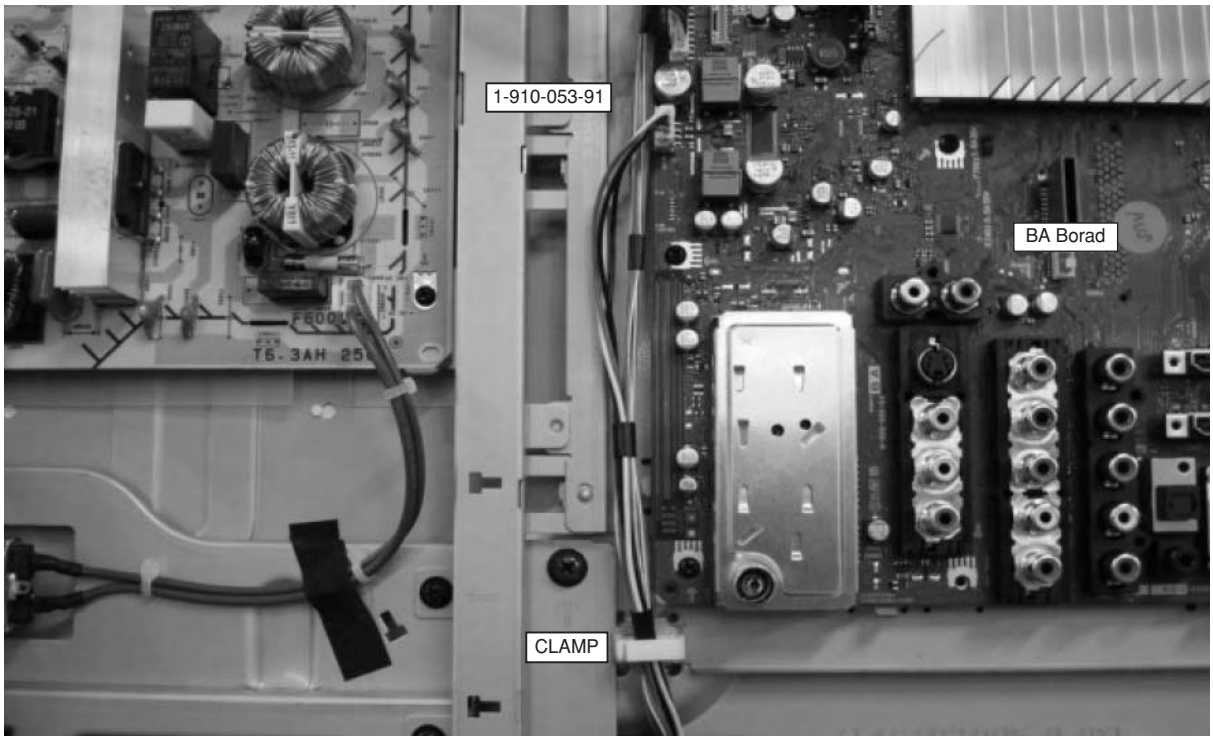
5-3-3. P.3 Area



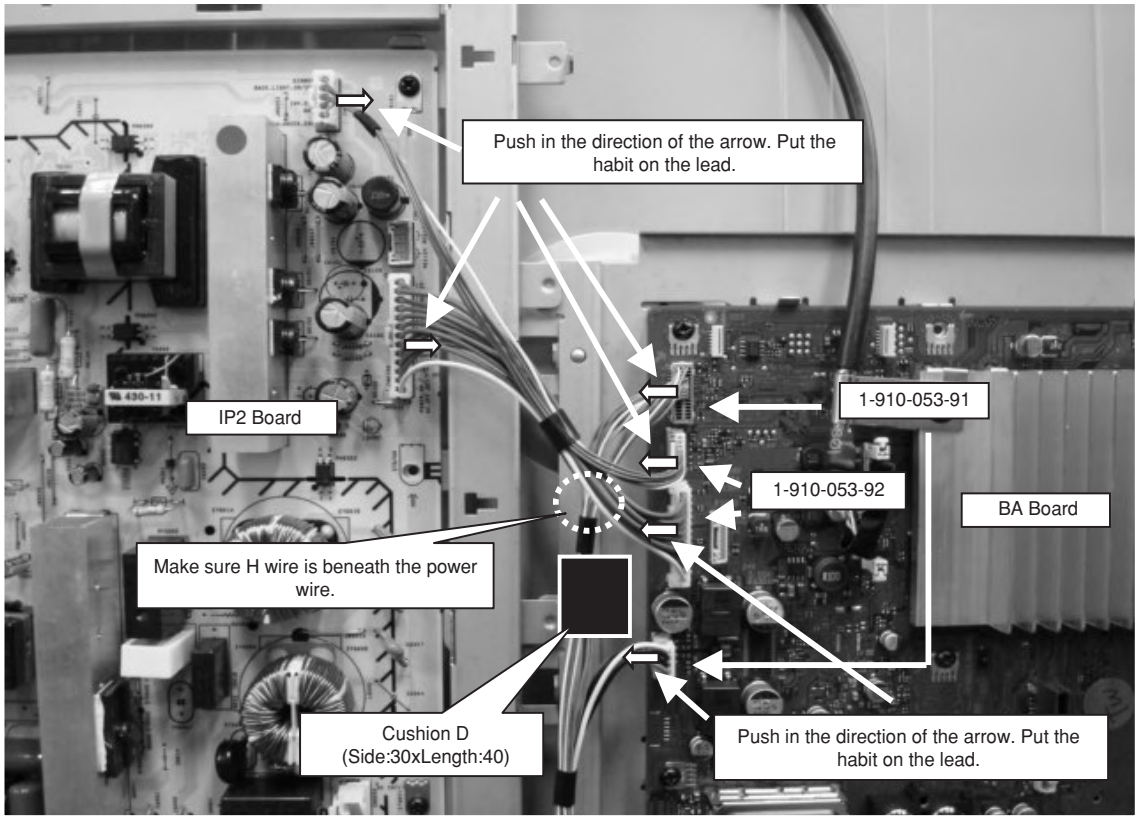
5-3-4. P.4 Area



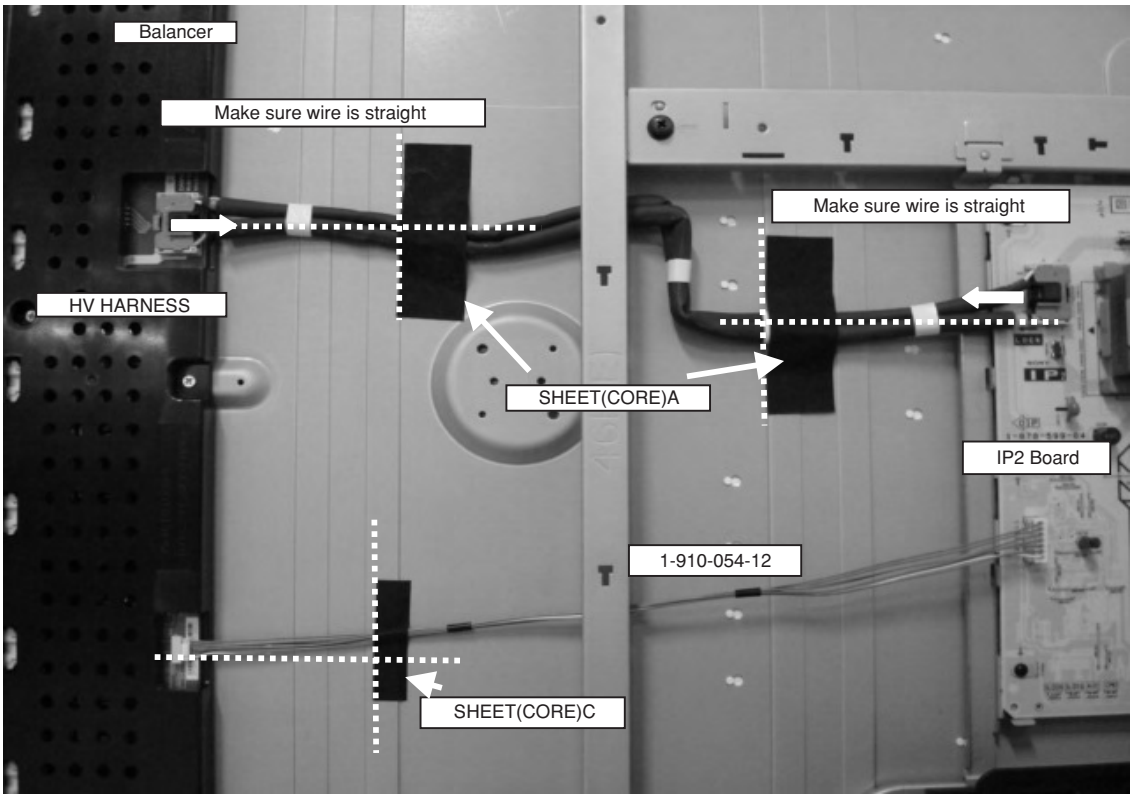
5-3-5. P.5 Area



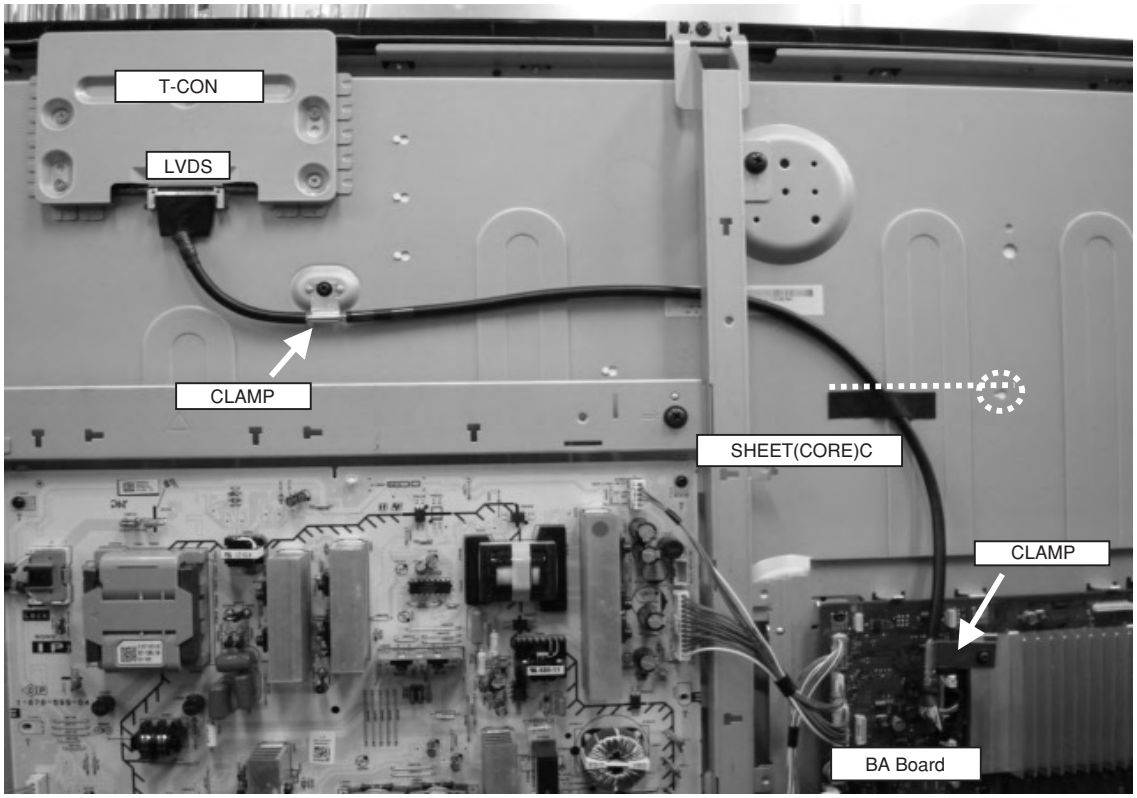
5-3-6. P.6 Area



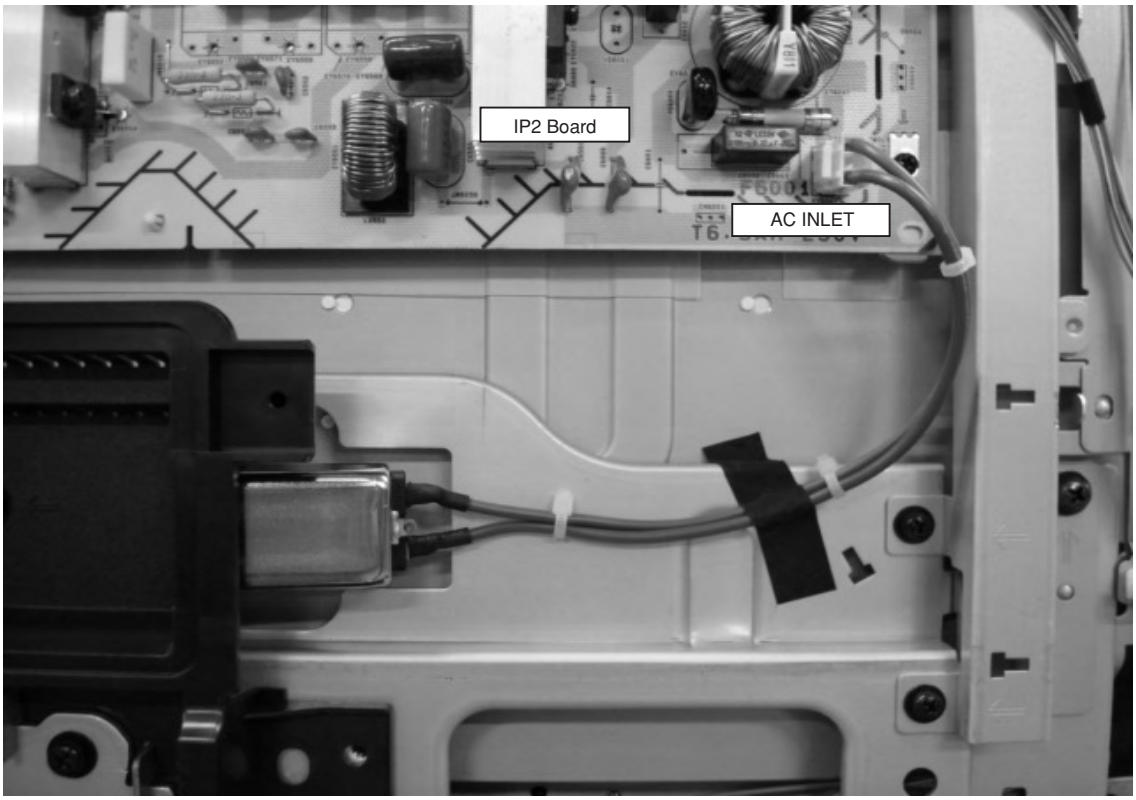
5-3-7. P.7 Area



5-3-8. P.8 Area

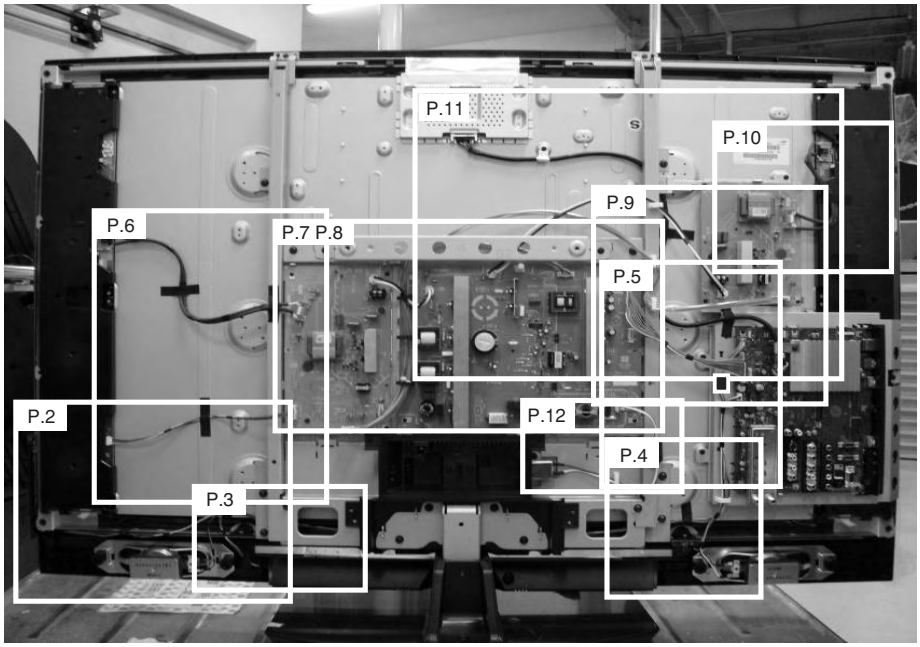


5-3-9. P.9 Area



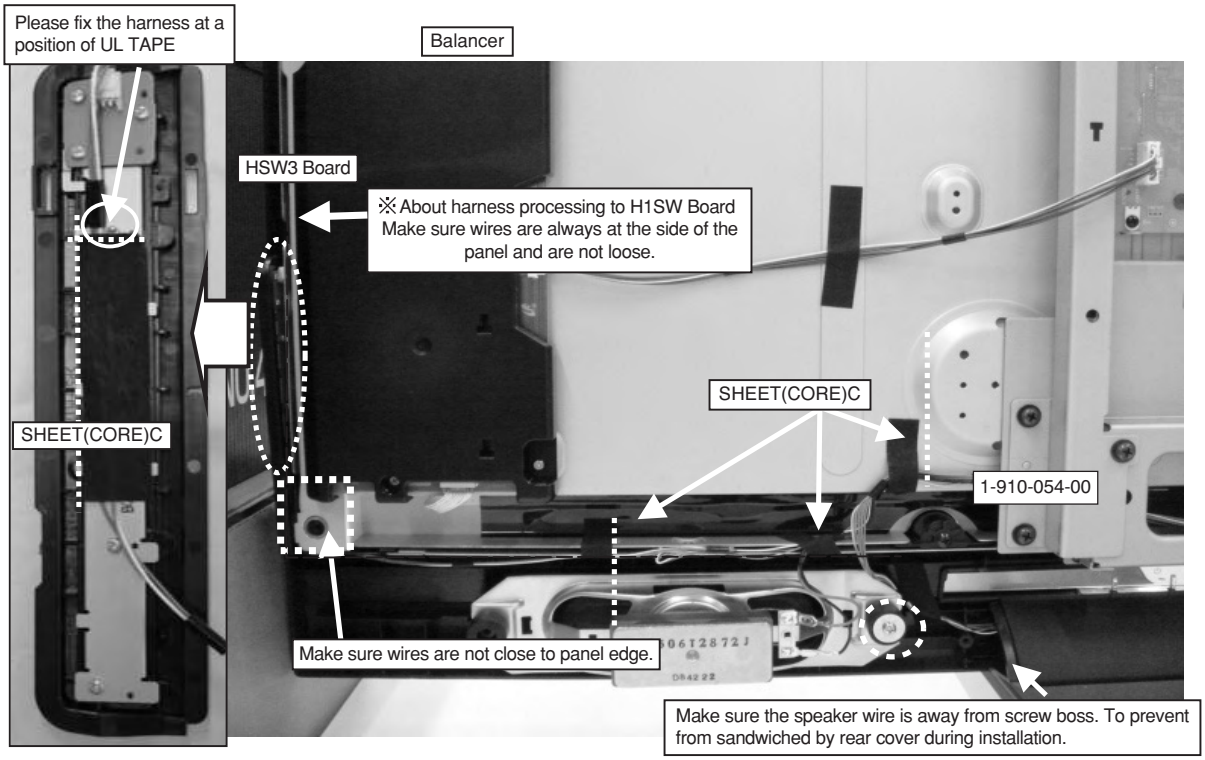
5-4. KLV-52V550A

5-4-1. Wire Dressing Overview

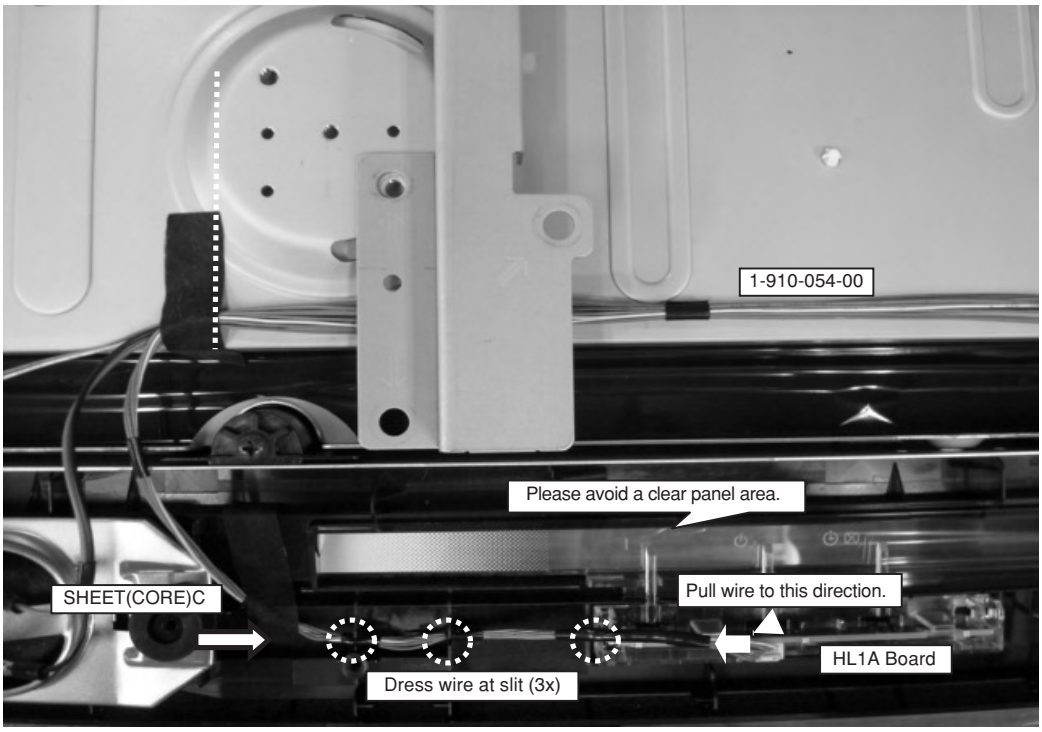


Note:
For details of each area dressing, refer to area information

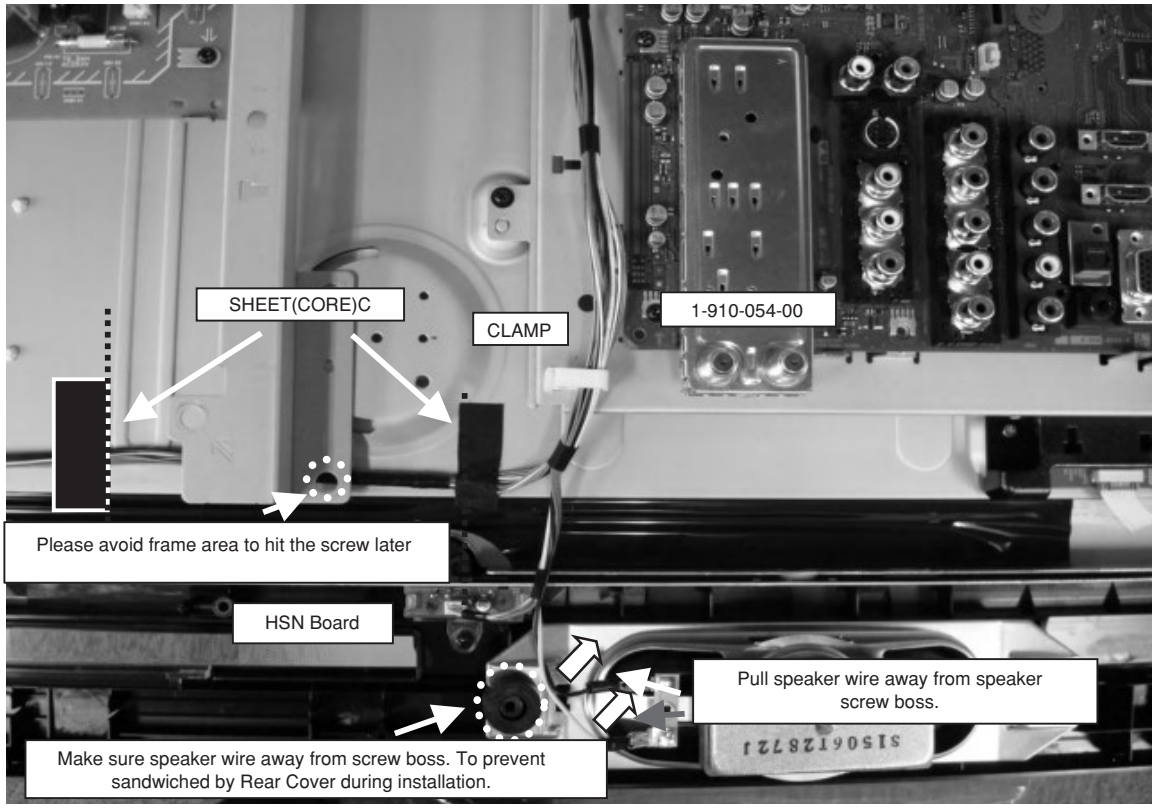
5-4-2. P.2 Area



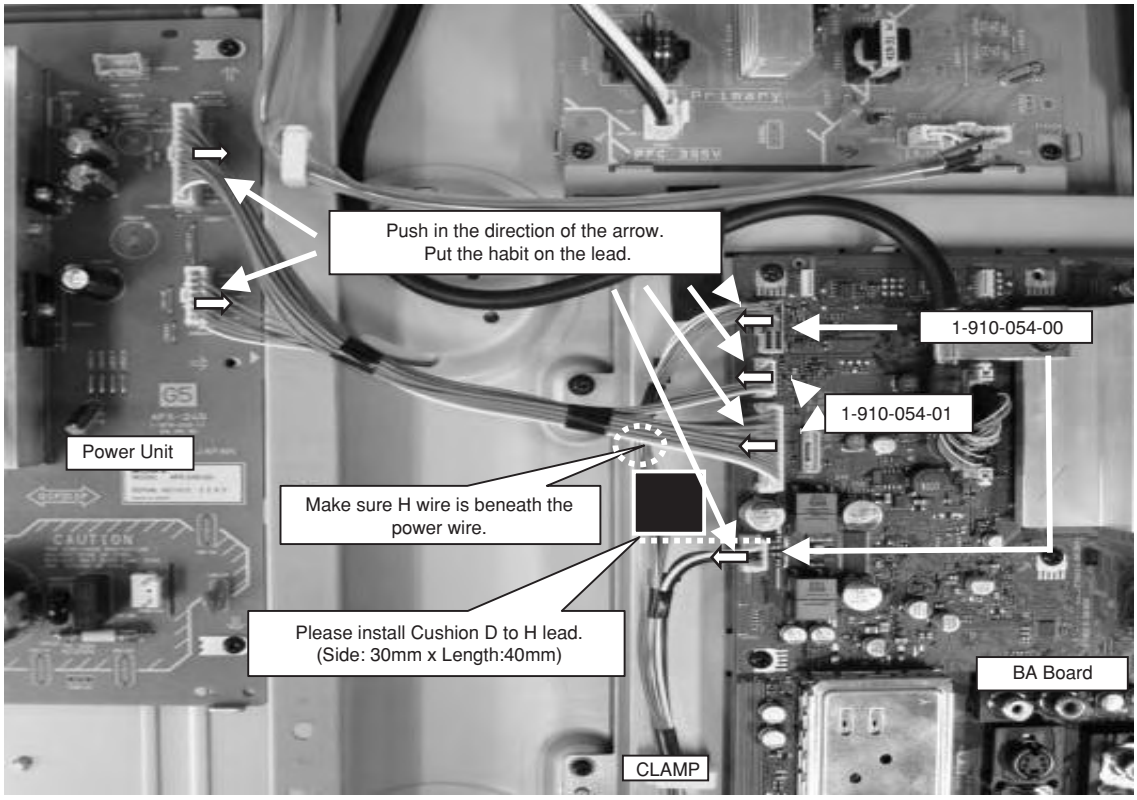
5-4-3. P.3 Area



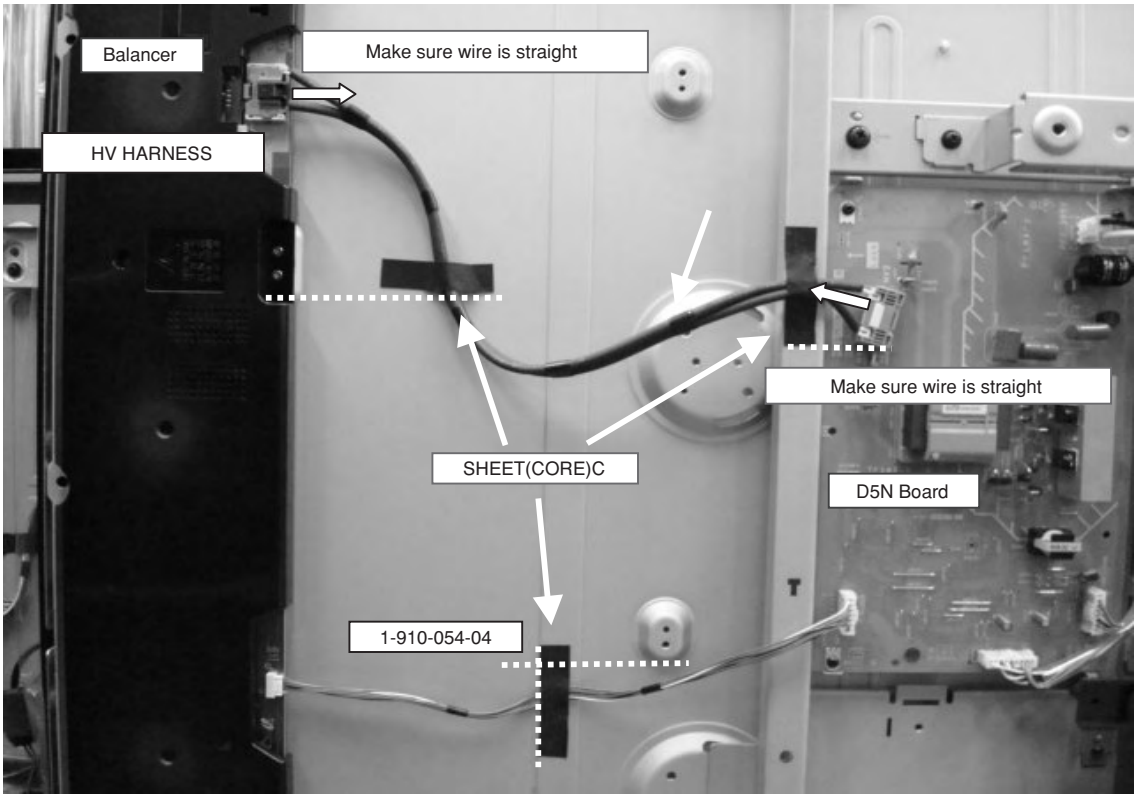
5-4-4. P.4 Area



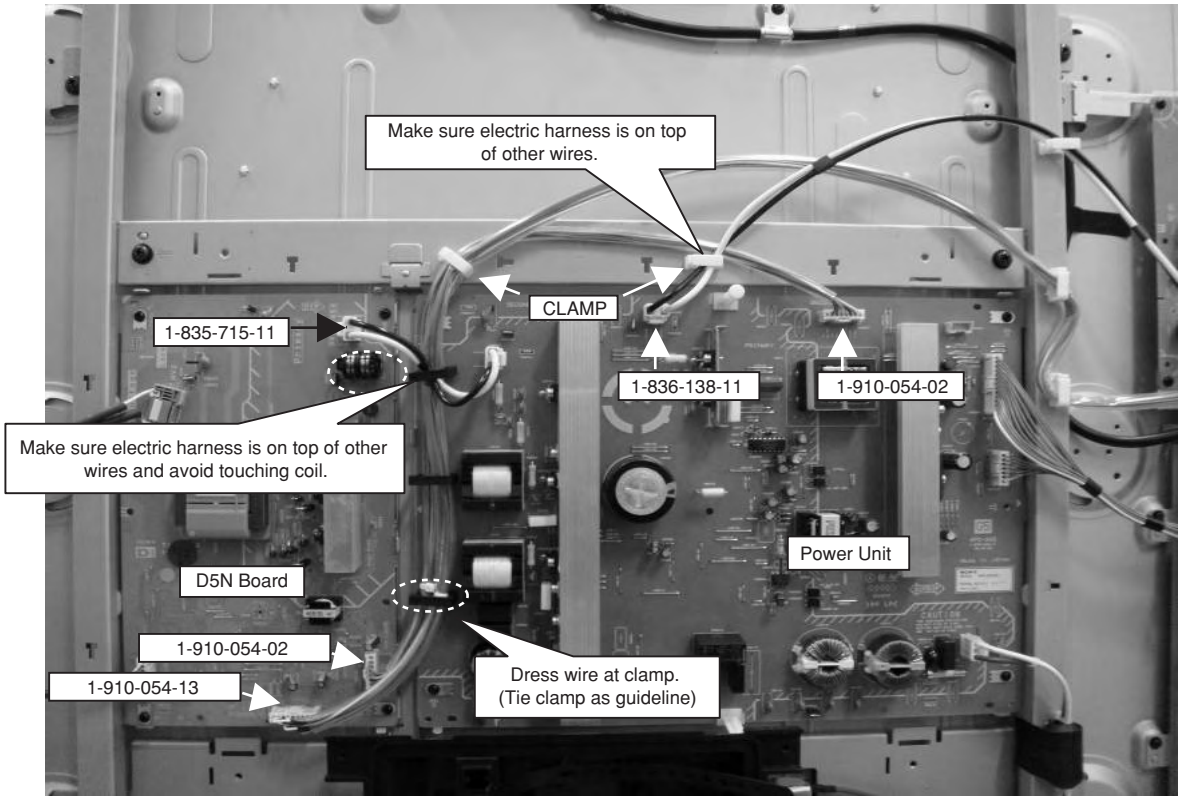
5-4-5. P.5 Area



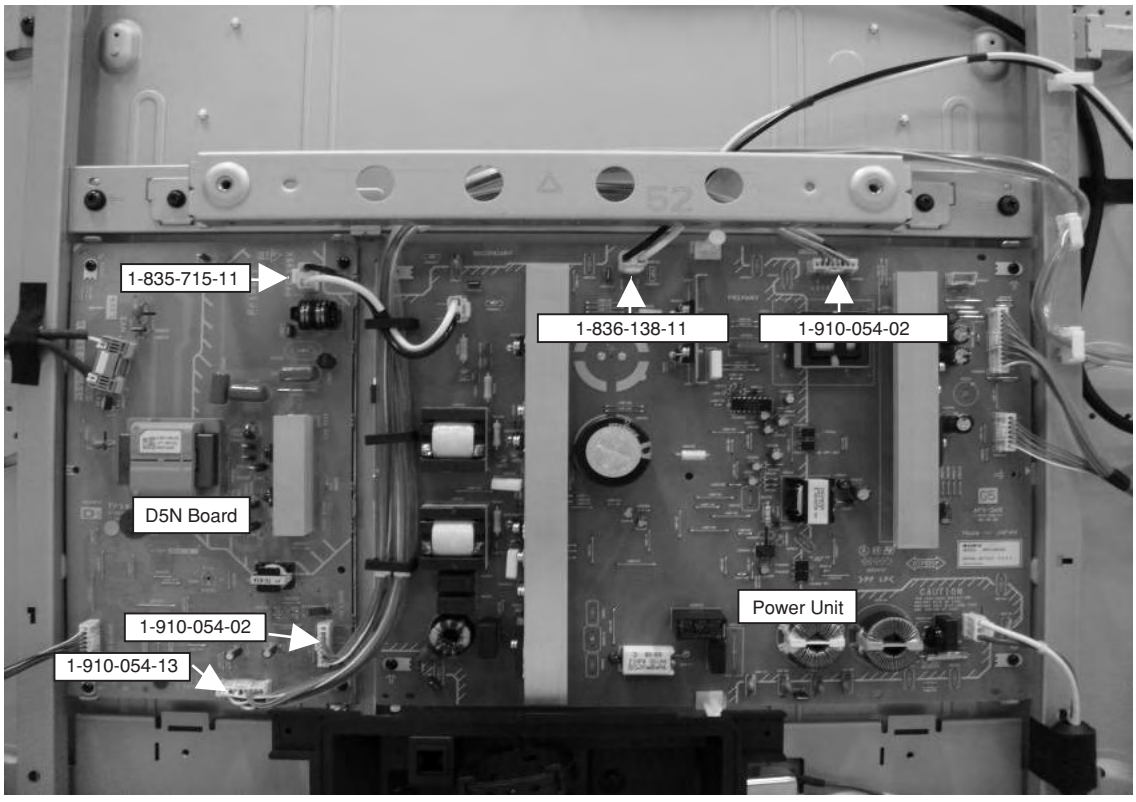
5-4-6. P.6 Area



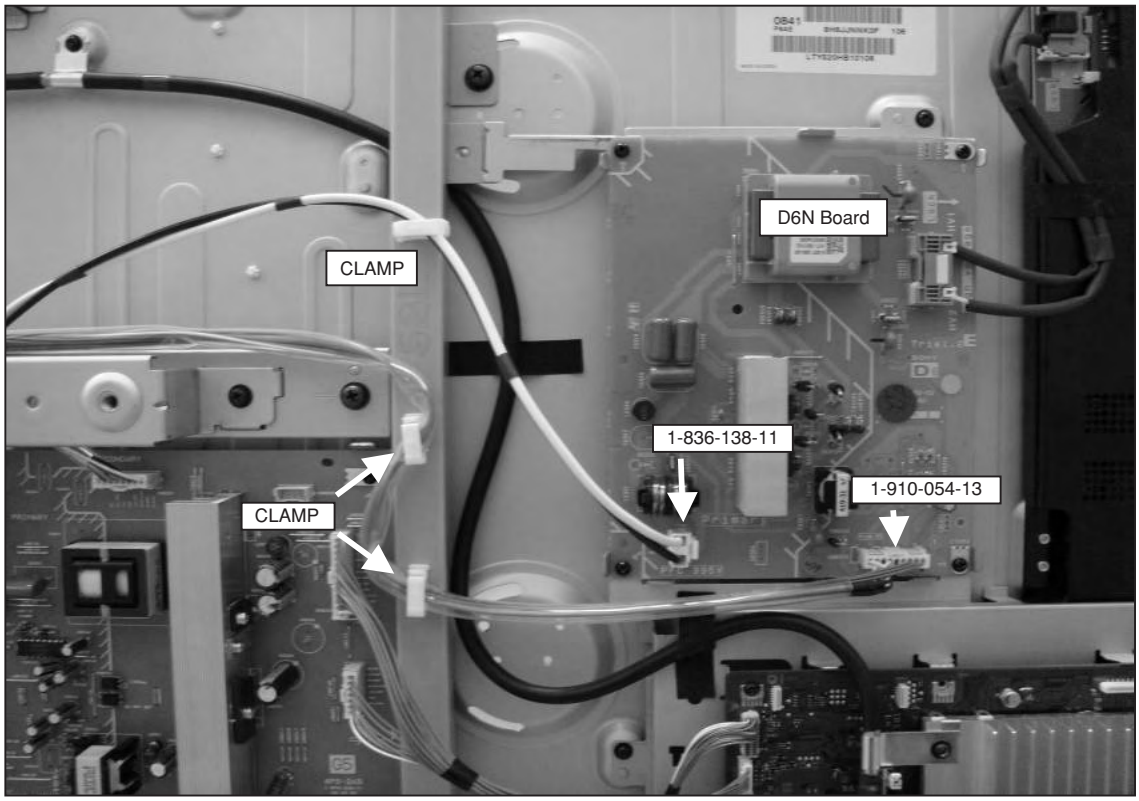
5-4-7. P.7 Area



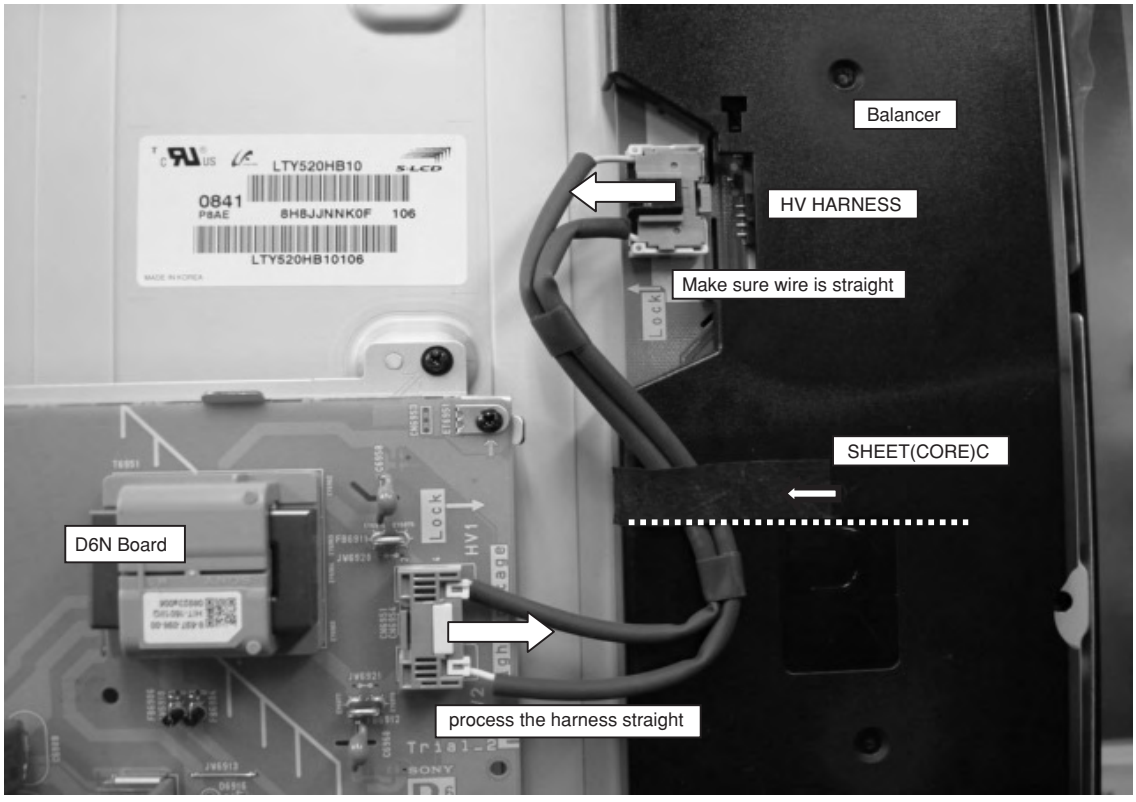
5-4-8. P.8 Area



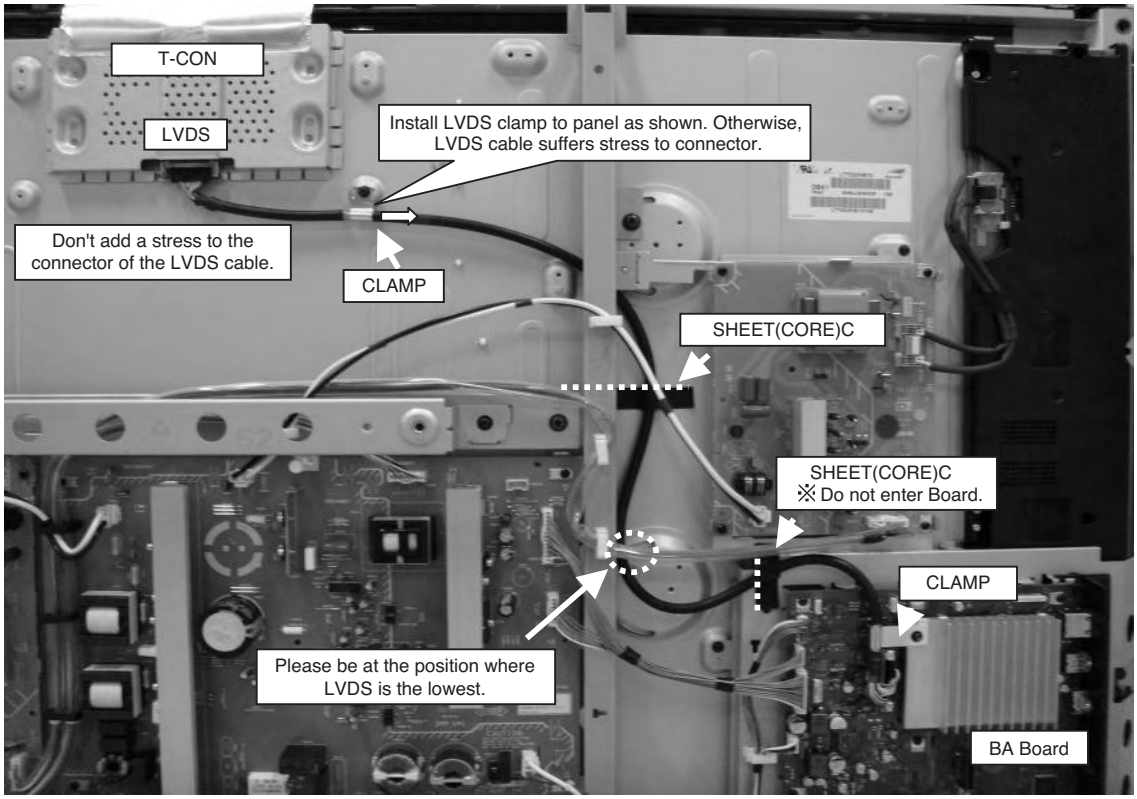
5-3-9. P.9 Area



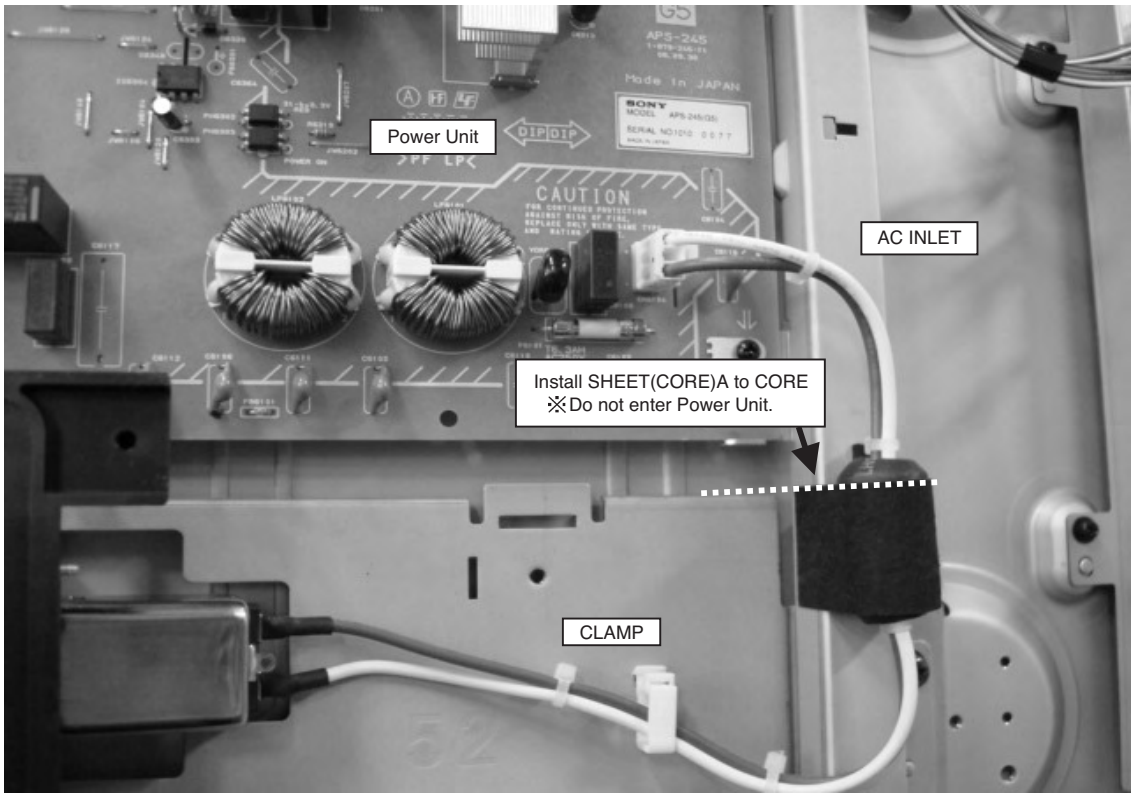
5-3-10. P.10 Area



5-4-11. P.11 Area



5-4-12. P.12 Area



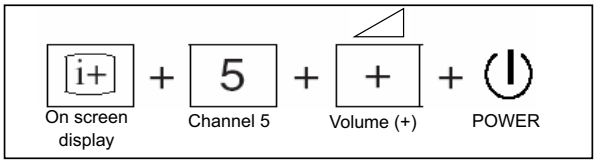
SECTION 6
SERVICE ADJUSTMENTS

6-1. Viewing Service Adjustment Data

There are no adjustments necessary for these models.
All data have been set for optical viewing for customers.
This section serves for informational purpose only.

6-2. Accessing Service Adjustment Mode

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



2. The following menu appears on the screen.

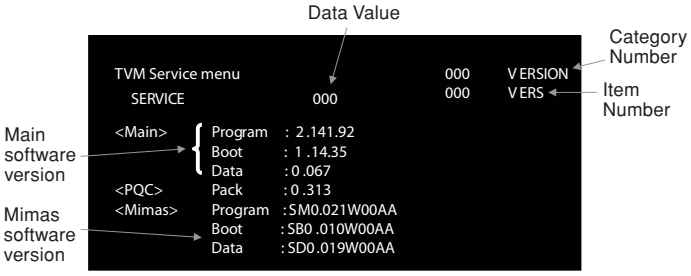


Figure 1: TVM Service Menu Sample

3. Use the following buttons on the remote commander to access the service menu:

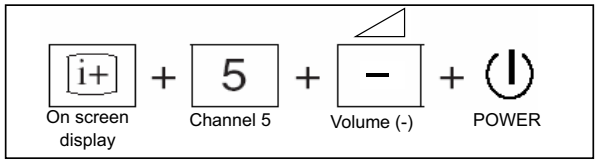
Remote Button	Function
1 / 4	Item up / down
2 / 5	Category up / down
3 / 6	Data up / down
7	Initialize data
8	Test Reset
9	Read Data
10 / 0	Execute Data
Mute	Write Data

4. To reset to factory default, press 8 --> Mute --> 0

5. To exit, turn off and on the TV set.

6-3. Accessing Diagnostic Menu

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



2. The following menu appears on the screen.

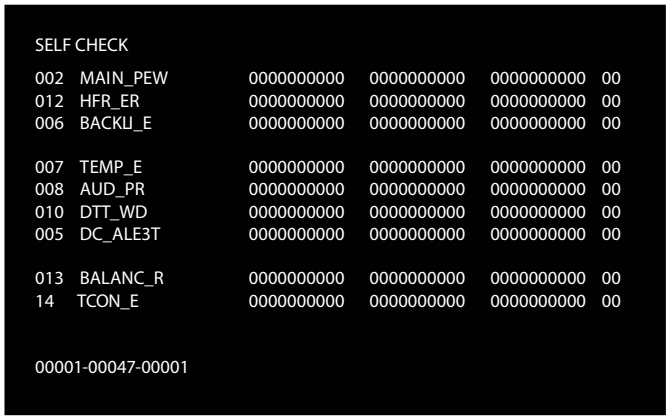


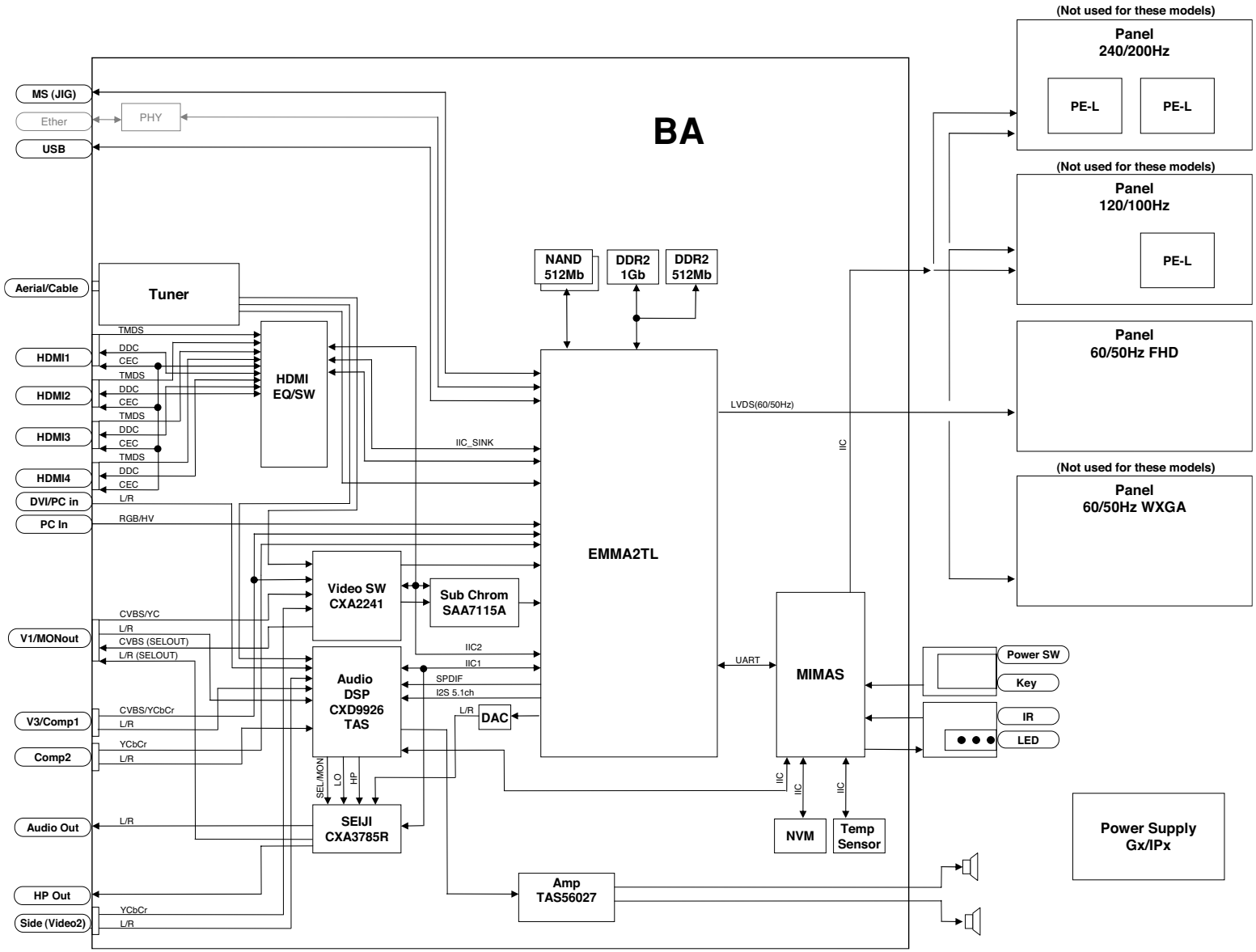
Figure 2: Diagnostic Menu Sample

3. To exit, turn off and on the TV set.

SECTION 7
DIAGRAMS

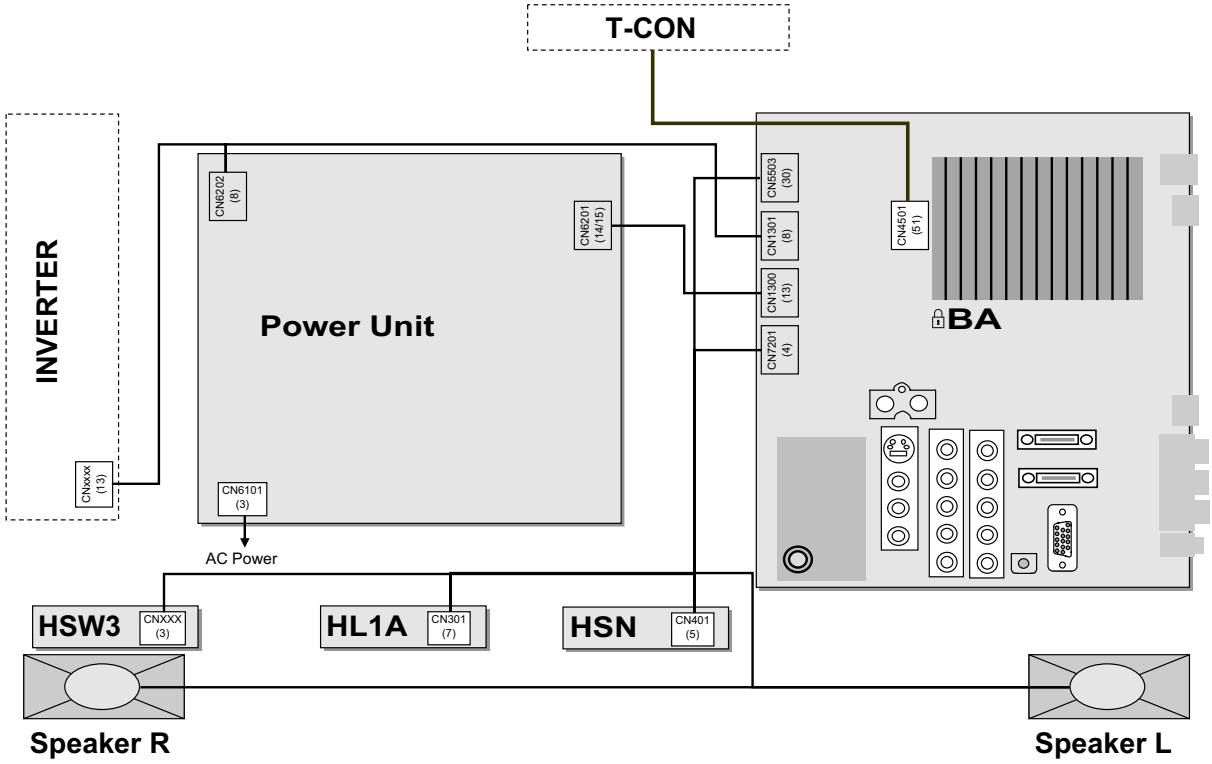
7-1. BLOCK DIAGRAM

7-1-1. BA Board

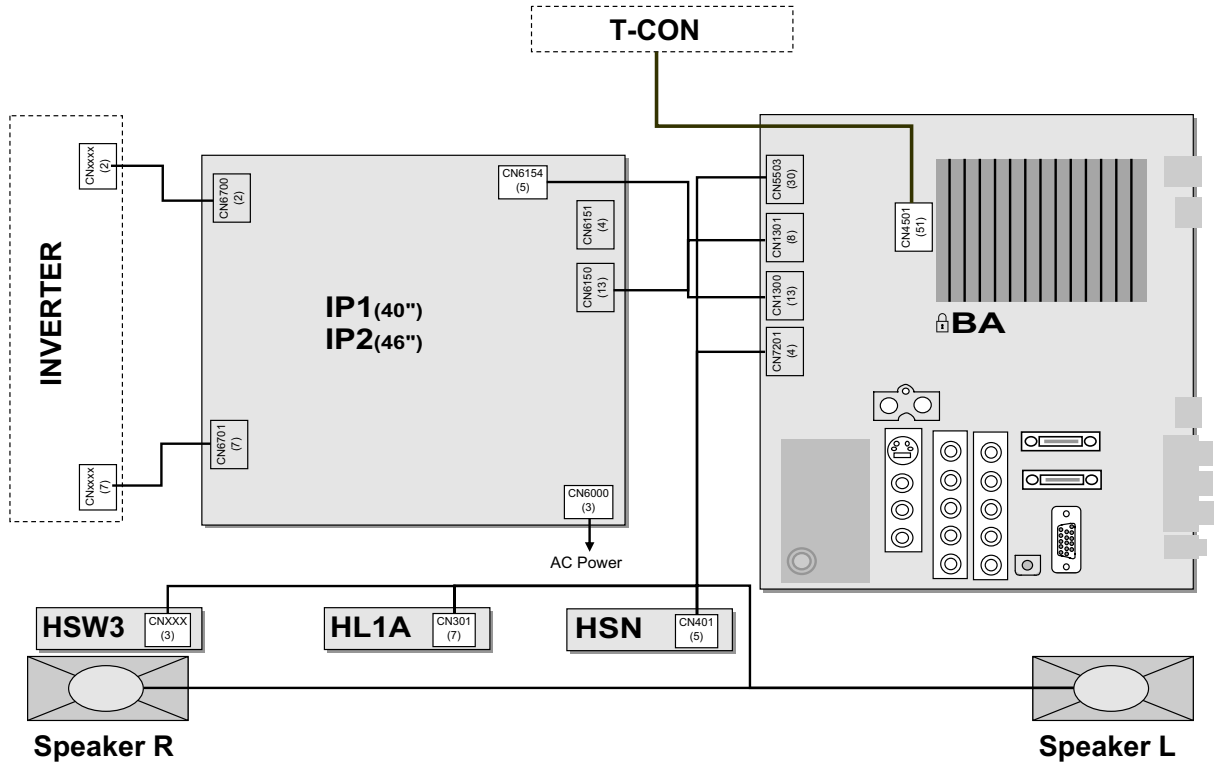


7-2. CONNECTOR DIAGRAM

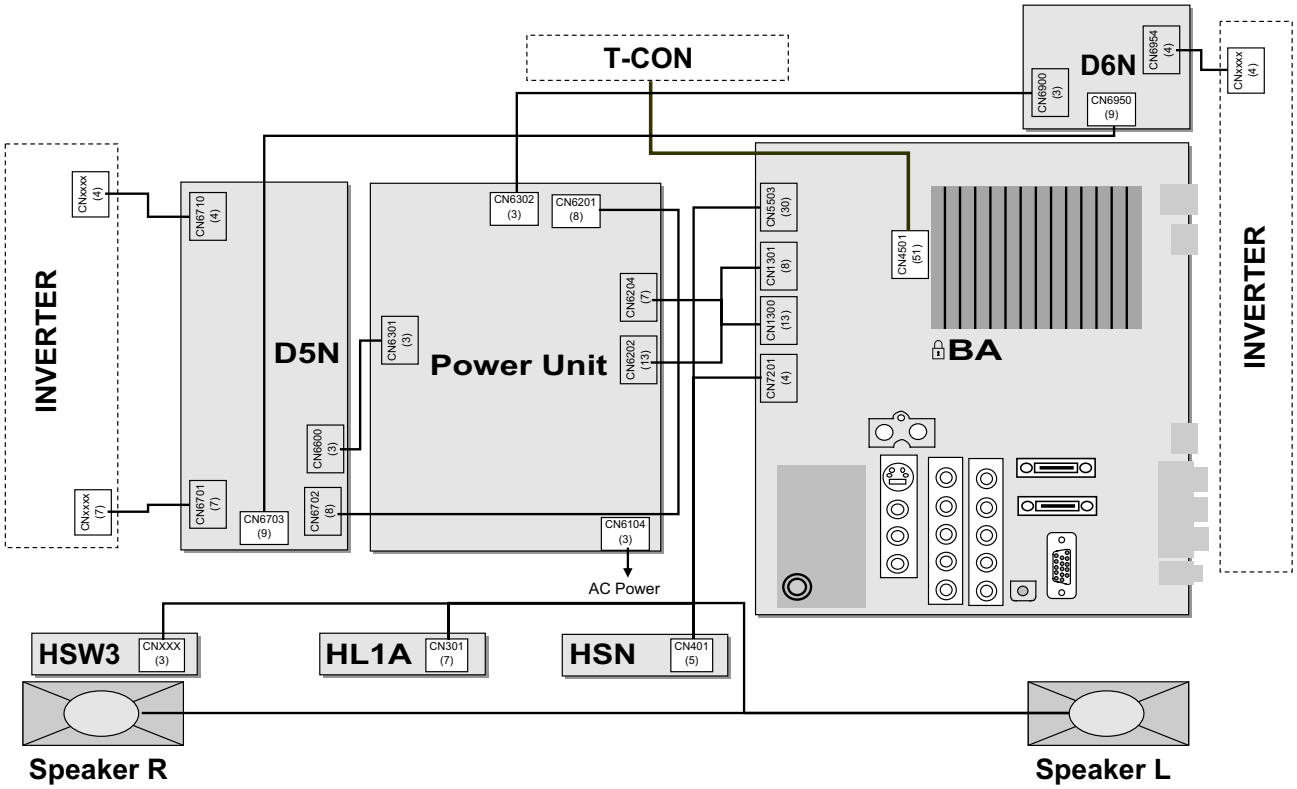
7-2-1. KLV-32 V530A, V550A, V550A/R, V550A/W



7-2-2. KLV-40 V530A, V550A, V550A/R, V550A/W, 46V550A

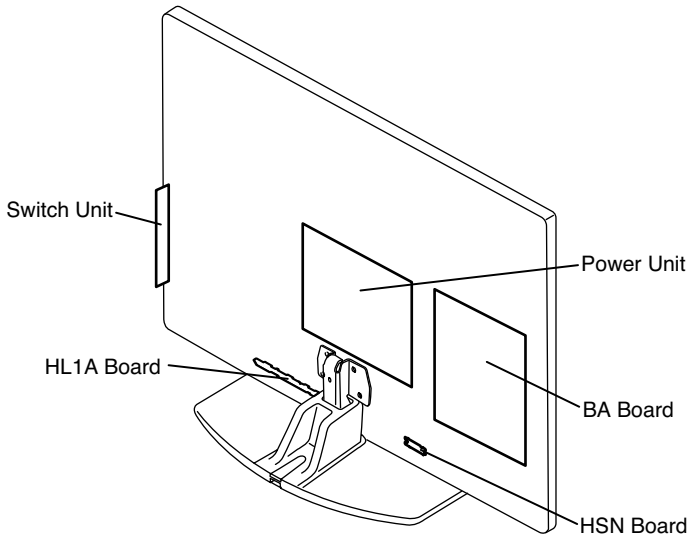


7-2-3. KLV-52V550A

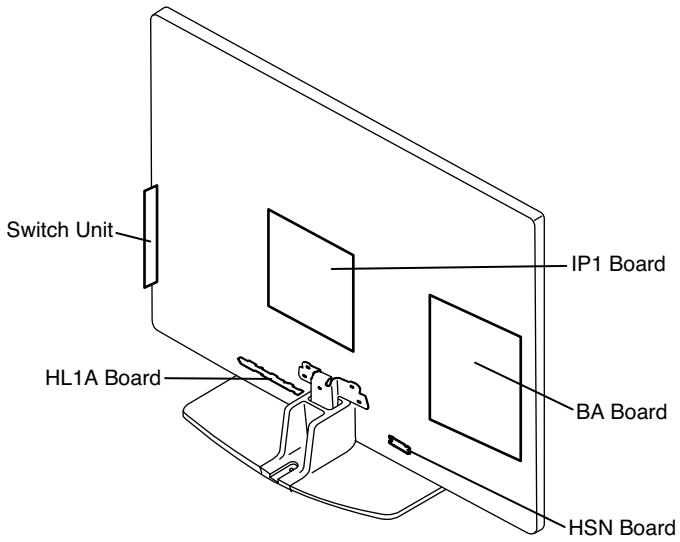


7-3. Circuit Board Location

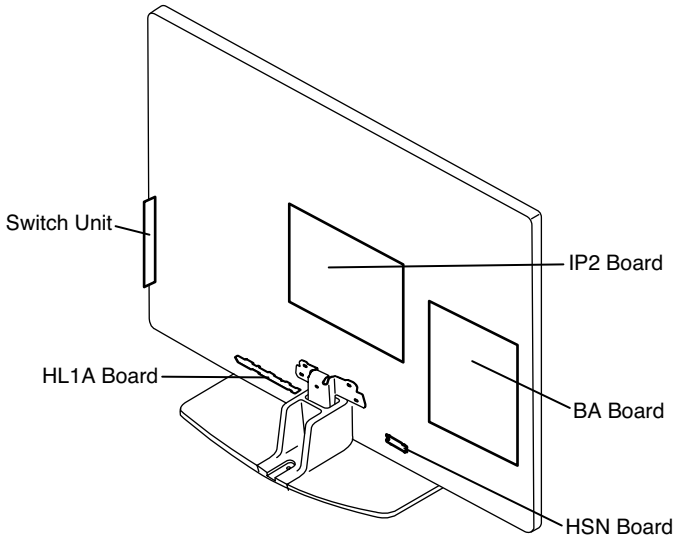
7-3-1. KLV-32 V530A, V550A, V550A/R, V550A/W



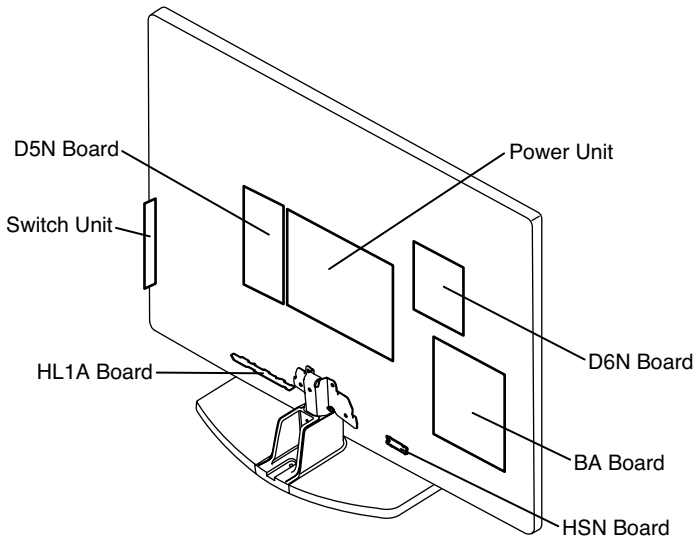
7-3-2. KLV-40 V530A, V550A, V550A/R, V550A/W



7-3-3. KLV-46V550A



7-3-4. KLV-52V550A



7-4. SCHEMATIC DIAGRAM

7-5. PRINTED WIRING BOARDS

Board	Function	Note
🔒BA	HDMI(EQ SW), VIDEO SW, SUB CHROMA, POWER(EMMA), CLK/ PERIPHERAL, ROM-IF/ STRAPS, DDR2, ETHERNET/USB, VIDEO IN/OUT, HDMI/PANEL OUT, AUDIO IN/OUT, STANDBY_MICRO (MIMAS), POWER, AUDIO, NICAM(MSP), TERMINAL COM, TERMINAL SCART, TUNER, CI(PCICIA)	Due to complexity of the board, performing component level field repairs are not recommended. Complete board replacement is required if service is necessary. For part number information, refer to Exploded View or Electrical Parts List section in this manual.
D5N (52")	Inverter	
D6N (52")	Inverter	
HL1A	LED	
HSN	Optical Sensor/SIRCS	
IP1 (40")	Power Supply/Inverter	
IP2 (46")	Power Supply/Inverter	
Power Unit (32" & 52")	Power	

7-6. SEMICONDUCTORS

Due to complexity of the board, performing component level field repairs are not recommended. Complete board replacement is required if service is necessary.

SECTION 8
EXPLODED VIEWS

- Components not identified by a part number or description are not stocked because they are not required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the far right column of the part list and within the dotted lines of the diagram.
- Item marked with an asterisk (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these components.

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

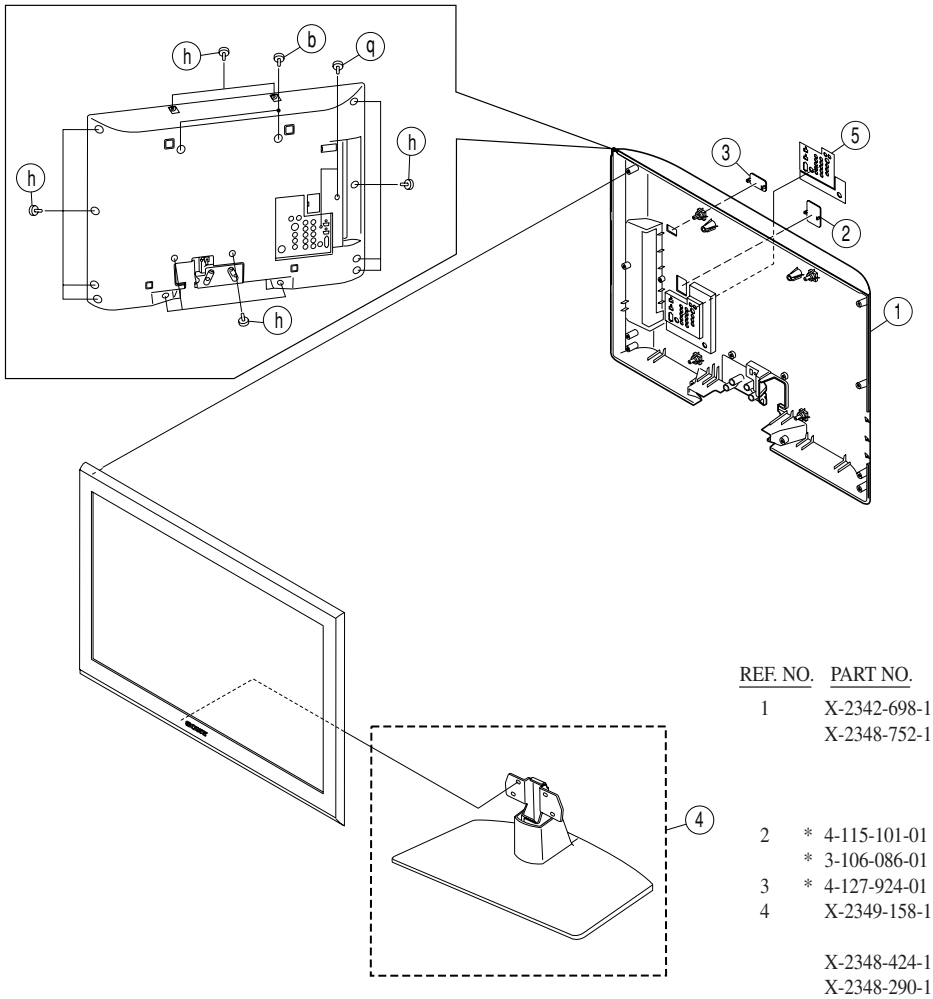
Note: The components identified by mark 🔒 contain confidential information. Strictly follow the instructions whenever the components are repaired and /or replaced.

Note: The illustrations provided in this section might have slight difference from actual sets.

a	2-580-591-01	SCREW, +PSW M3X5
b	2-580-600-01	SCREW, +PSW M4X8
c	2-580-606-01	SCREW, +PSW M5X8
d	2-580-608-01	SCREW, +PSW M5X16
e	2-580-614-01	SCREW, +K M3X8
f	2-580-626-01	SCREW,SP 4-4O UNC
g	2-580-629-01	SCREW, +BVST 3X8
h	2-580-640-01	SCREW, +BVTP2 4X16
i	2-580-644-01	SCREW, +KTP2 3X8
j	2-580-654-01	SCREW, +PWTP2 4X16
k	2-596-649-01	+KTT 3X10(S TYPE)
l	2-674-965-01	SCREW, +PSW 3SG
m	3-252-830-01	SCREW(B3), (+) PWH TAPPING
n	3-873-012-01	SCREW, +PWH M5X16
o	3-873-013-01	SCREW, +PWH M5X10
p	7-682-948-01	SCREW, +PSW 3X8
q	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3
r	2-580-602-01	SCREW, +PSW M4X12

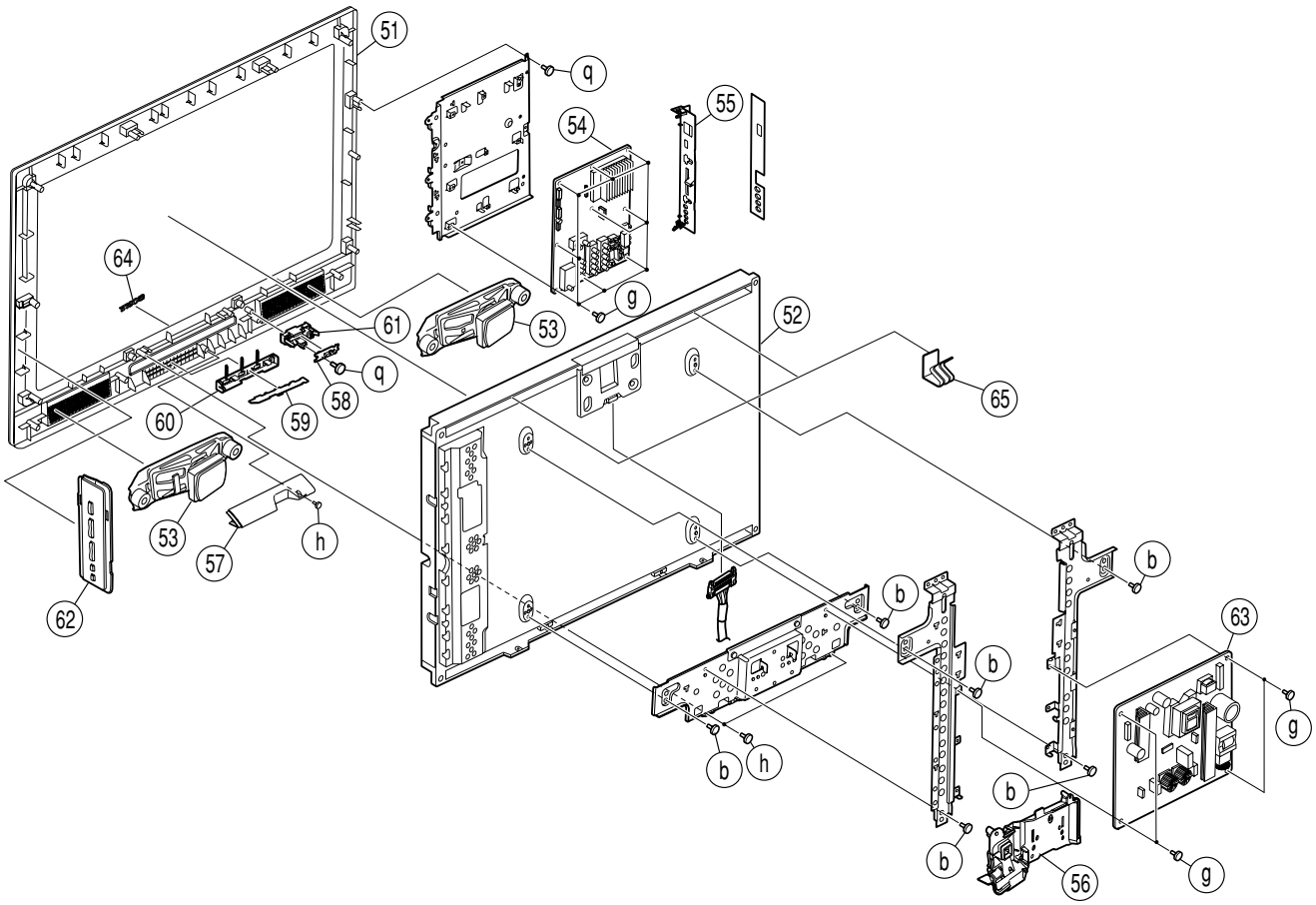
8-1 KLV-32 V530A, V550A, V550A/R, V550A/W

8-1-1. REAR CABINET AND STAND ASSY



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		X-2342-698-1	REAR COVER(32) ASSY	
		X-2348-752-1	REAR COVER(32) ASSY (KLV-32V550A(India, Philippines, Thailand), 32V550A/R(Philippines, Thailand), 32V550A/W (Philippines, Thailand))	
2	*	4-115-101-01	COVER, ECS	
	*	3-106-086-01	COVER, ECS	
3	*	4-127-924-01	COVER, ECS(S)	
4		X-2349-158-1	STAND ASSY(M2) (KLV-32V550A(India, Philippines, Thailand))	
		X-2348-424-1	STAND ASSY(M2)(R) (KLV-32V550A/R)	
		X-2348-290-1	STAND ASSY(M2)(W) (KLV-32V550A/W)	
		X-2345-160-1	STAND ASSY(M2) (KLV-32V530A, 32V550A(ME, Tunisia, South Africa, India, Philippines, Thailand, Russia))	
		X-2349-323-1	STAND ASSY(M2)(R) (KLV-32V550A/R(Thailand, Philippines))	
		X-2349-322-1	STAND ASSY(M2)(W) (KLV-32V550A/W(Thailand, Philippines))	
5		4-130-658-01	LABEL, REAR TERMINAL(L) (KLV-32V530A)	

8-1-2. BOARDS, SPEAKERS, BEZEL AND PANEL

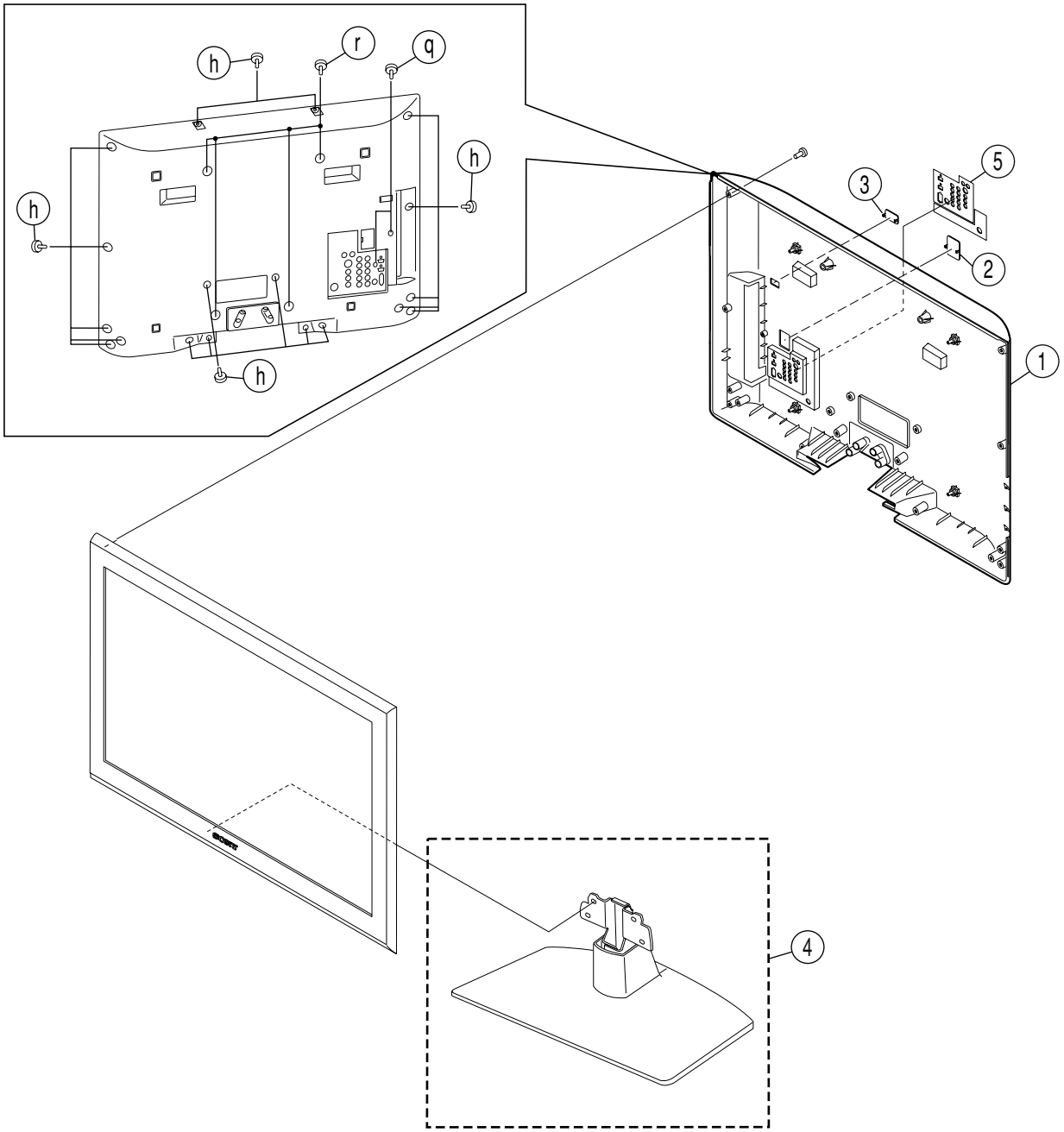


REF. NO.		PART NO.	DESCRIPTION	REMARK
51		X-2342-696-1	BEZEL ASSY(32C) (KLV-32V550A(Thailand, ME, India, Philippines, South Africa, Tunisia, Russia))	
		X-2348-753-1	BEZEL ASSY(32C) (KLV-32V550A(India, Philippines, Thailand))	
		X-2348-289-1	BEZEL ASSY(32C)(R) (KLV-32V550A/R)	
		X-2348-288-1	BEZEL ASSY(32C)(W) (KLV-32V550A/W)	
		X-2349-391-1	BEZEL ASSY(32C) (KLV-32V530A)	
52	⚠	1-802-801-12	LCD PANEL(32INCH FHD TFT)	
53		1-858-184-11	LOUD SPEAKER	
54	🔒	A-1706-632-A	BA COMPL(SERVICE) (Except KLV-32V530A, 32V550A(Russia, Tunisia))	
	🔒	A-1709-774-A	BA COMPL(SERVICE) (KLV-32V530A)	
	🔒	A-1729-823-A	BA COMPL(SERVICE) (KLV-32V550A(Russia, Tunisia))	
55		4-125-783-21	BRACKET, SIDE JACK(EX2L)	
56		4-127-409-01	COVER, UNDER(S)	
57		4-127-411-01	BAR, UNDER(S)	
58		A-1671-630-A	HSN MOUNT	
59		A-1671-628-A	HL1A MOUNT	
60		4-124-431-01	GUIDE, LED(C)	
61		4-124-432-01	GUIDE, IR(C)	
62		1-487-234-11	SWITCH UNIT	
63		1-474-163-41	POWER UNIT	
64		4-103-642-21	EMBLEM SONY NO.8 (Except KLV-32V550A/W)	
65		2-661-171-01	SPRING, PANEL (KLV-32V550A(Tunisia, Russia))	
		2-682-457-01	SPRING, PANEL(26) (KLV-32V550A(Tunisia)), Russia))	

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

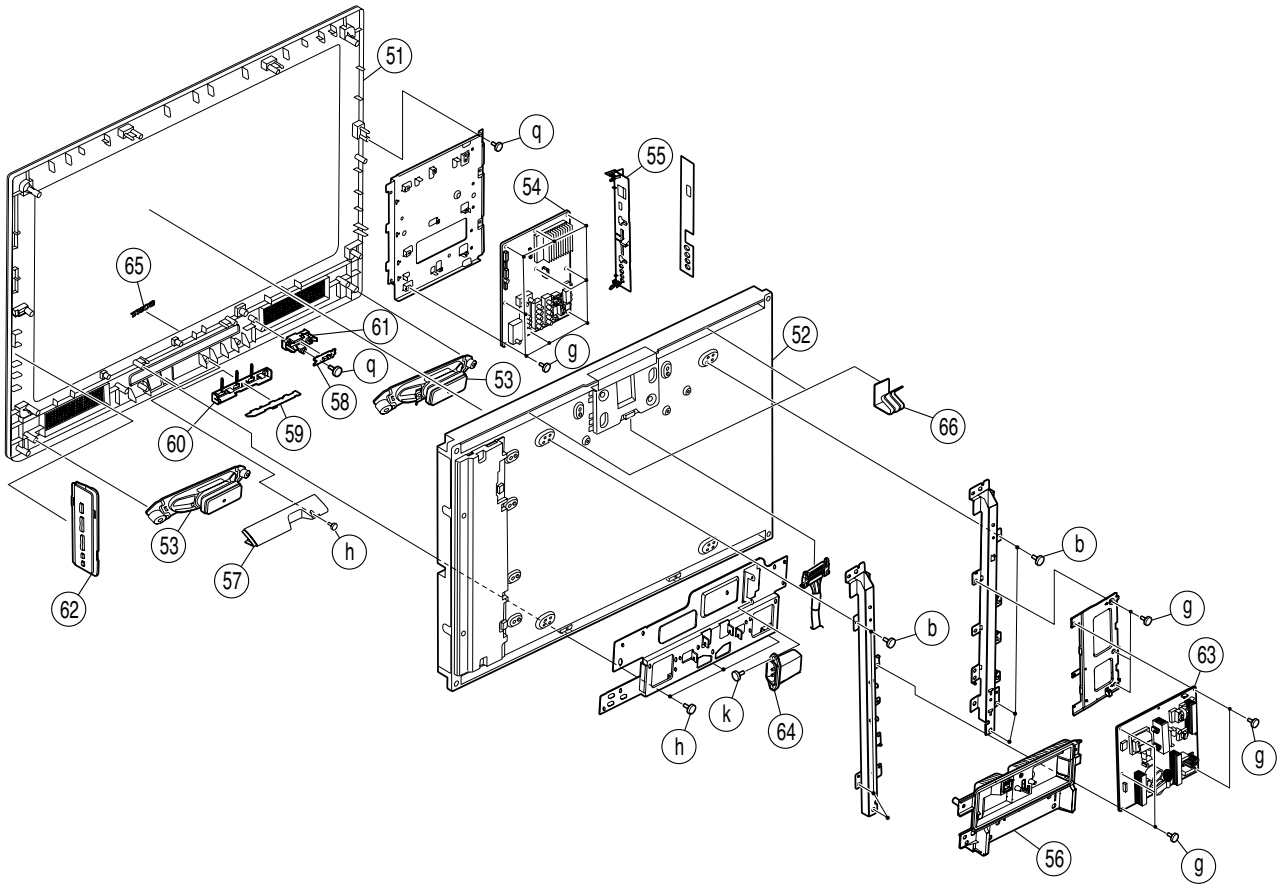
8-2 KLV-40 V530A, V550A, V550A/R, V550A/W

8-2-1. REAR CABINET AND STAND ASSY



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		X-2348-900-1	REAR COVER(40) ASSY	
		X-2348-754-1	REAR COVER(40) ASSY (KLV-40V550A(Thailand, India, Philippines), 40V550A/R(Thailand, Philippines), 40V550A/W(Thailand, Philippines))	
2	*	4-115-101-01	COVER, ECS	
	*	3-106-086-01	COVER, ECS	
3	*	4-127-924-01	COVER, ECS(S)	
4		X-2345-161-1	STAND ASSY(ML2) (KLV-40V530A, 40V550A(ME, Tunisia, Iran, Russia, South Africa, India, Philippines, Thailand))	
		X-2349-167-1	STAND ASSY(ML2) (KLV-40V550A(India, Philippines, Thailand))	
		X-2349-173-1	STAND ASSY(ML2)(R) (KLV-40V550A/R(Philippines, Thailand))	
		X-2348-425-1	STAND ASSY(ML2)(R) (KLV-40V550A/R)	
		X-2349-172-1	STAND ASSY(ML2)(W) (KLV-40V550A/W(Philippines, Thailand))	
		X-2348-183-1	STAND ASSY(ML2)(W) (KLV-40V550A/W(ME, South Africa))	
5		4-130-658-01	LABEL, REAR TERMINAL(L) (KLV-40V530A)	

8-2-2. BOARDS, SPEAKERS, BEZEL AND PANEL

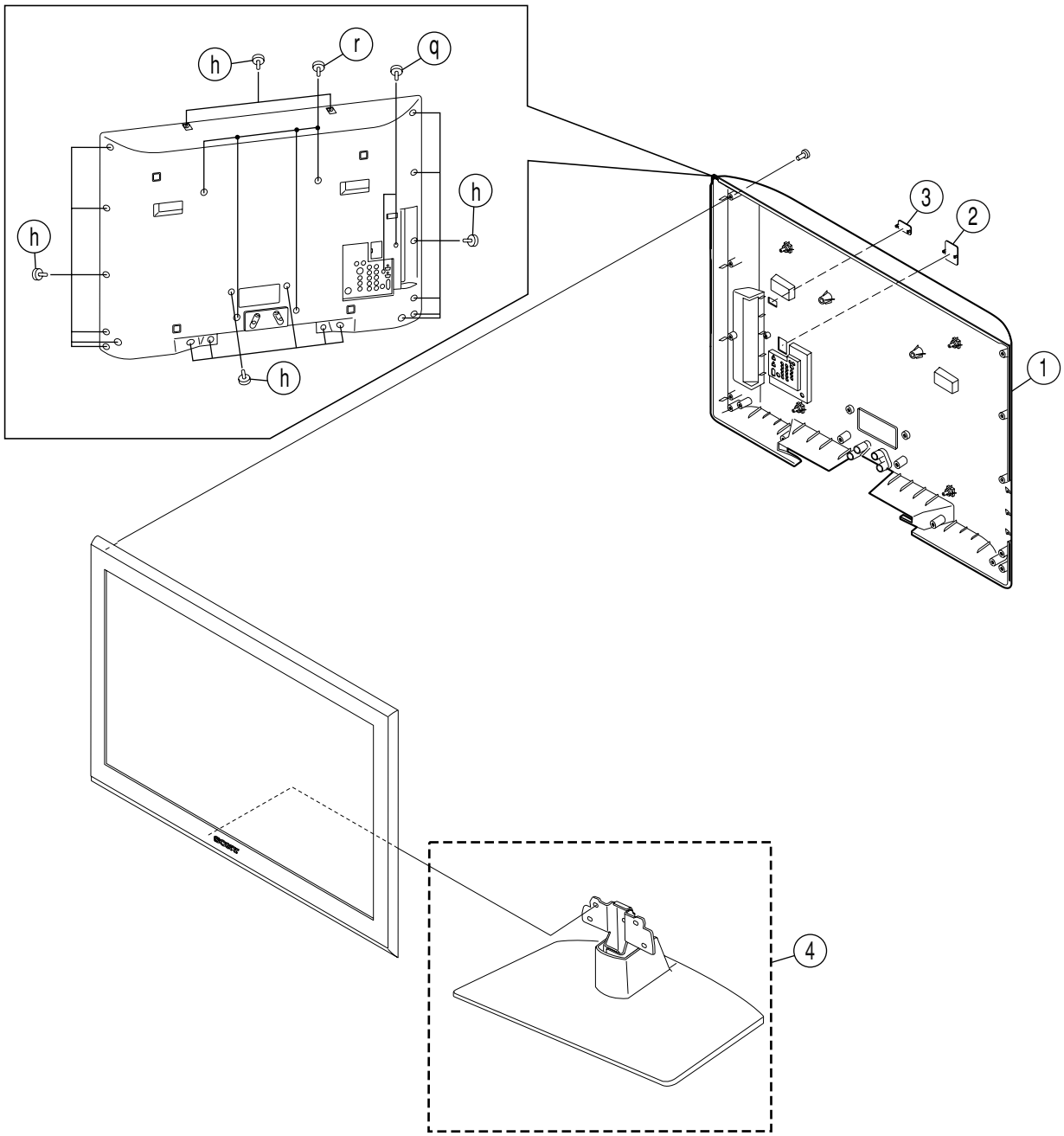


REF. NO.		PART NO.	DESCRIPTION	REMARK
51		X-2345-174-1	BEZEL ASSY(40C) (KLV-40V550A(ME, Tunisia, South Africa, Iran, India, Philippines, Russia, Thailand))	
		X-2349-389-1	BEZEL ASSY(40C) (KLV-40V530A)	
		X-2348-755-1	BEZEL ASSY(40C) (KLV-40V550A(India, Philippines, Thailand))	
		X-2348-182-1	BEZEL ASSY(40C)(R) (KLV-40V550A/R)	
		X-2348-181-1	BEZEL ASSY(40C)(W) (KLV-40V550A/W)	
52	⚠	1-802-800-11	LCD PANEL(40INCH FHD TFT)	
53		1-858-169-11	LOUDSPEAKER	
54	🔒	A-1707-235-A	BA COMPL(SERVICE) (Except KLV-40V530A, 40V550A(Russia, Tunisia))	
	🔒	A-1707-260-A	BA COMPL(SERVICE) (KLV-40V530A)	
	🔒	A-1728-485-A	BA COMPL(SERVICE) (KLV-40V550A(Russia, Tunisia))	
55		4-125-783-21	BRACKET, SIDE JACK(EX2L)	
56		4-127-410-01	COVER, UNDER(M)	
57		4-127-411-01	BAR, UNDER(S)	
58		A-1671-630-A	HSN MOUNT	
59		A-1671-628-A	HL1A MOUNT	
60		4-124-431-01	GUIDE, LED(C)	
61		4-124-432-01	GUIDE, IR(C)	
62		1-487-234-11	SWITCH UNIT	
63		A-1660-720-A	IP1 COMPL	
64	⚠	1-822-147-11	AC INLET	
	⚠	1-822-617-11	AC INLET FILTER	
65		4-103-642-21	EMBLEM, SONY NO.8 (Except KLV-40V550A/W)	
66		2-661-171-01	SPRING, PANEL (KLV-40V550A(Tunisia, Russia))	
		2-682-457-01	SPRING, PANEL(26) (KLV-40V550A(Tunisia, Russia))	

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

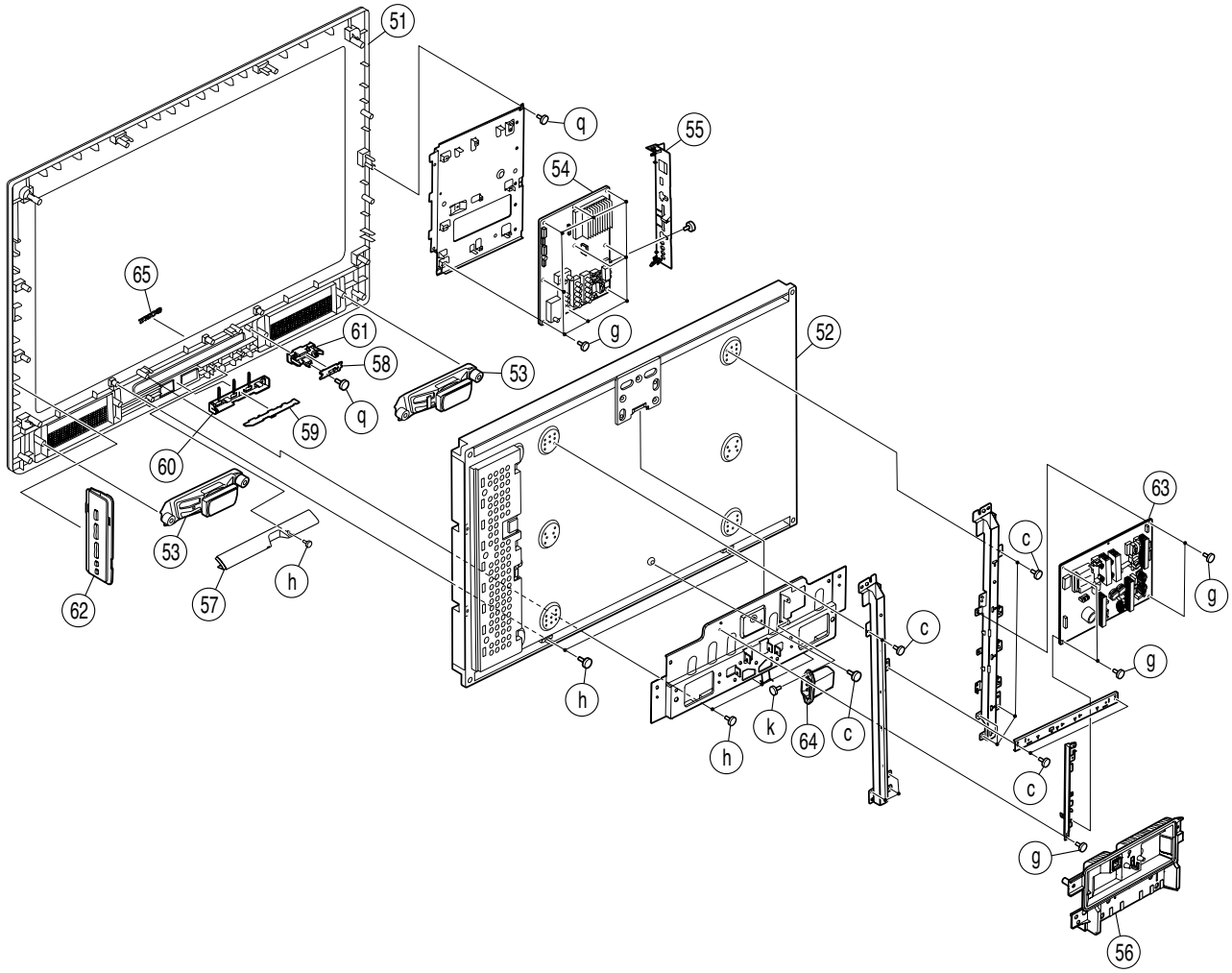
8-3 KLV-46V550A

8-3-1. REAR CABINET AND STAND ASSY



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		X-2345-429-1	REAR COVER(46) ASSY	
2	*	4-115-101-01	COVER, ECS	
	*	3-106-086-01	COVER, ECS	
3	*	4-127-924-01	COVER, ECS(S)	
4		X-2345-868-1	STAND ASSY(L2A)	

8-3-2. BOARDS, SPEAKERS, BEZEL AND PANEL

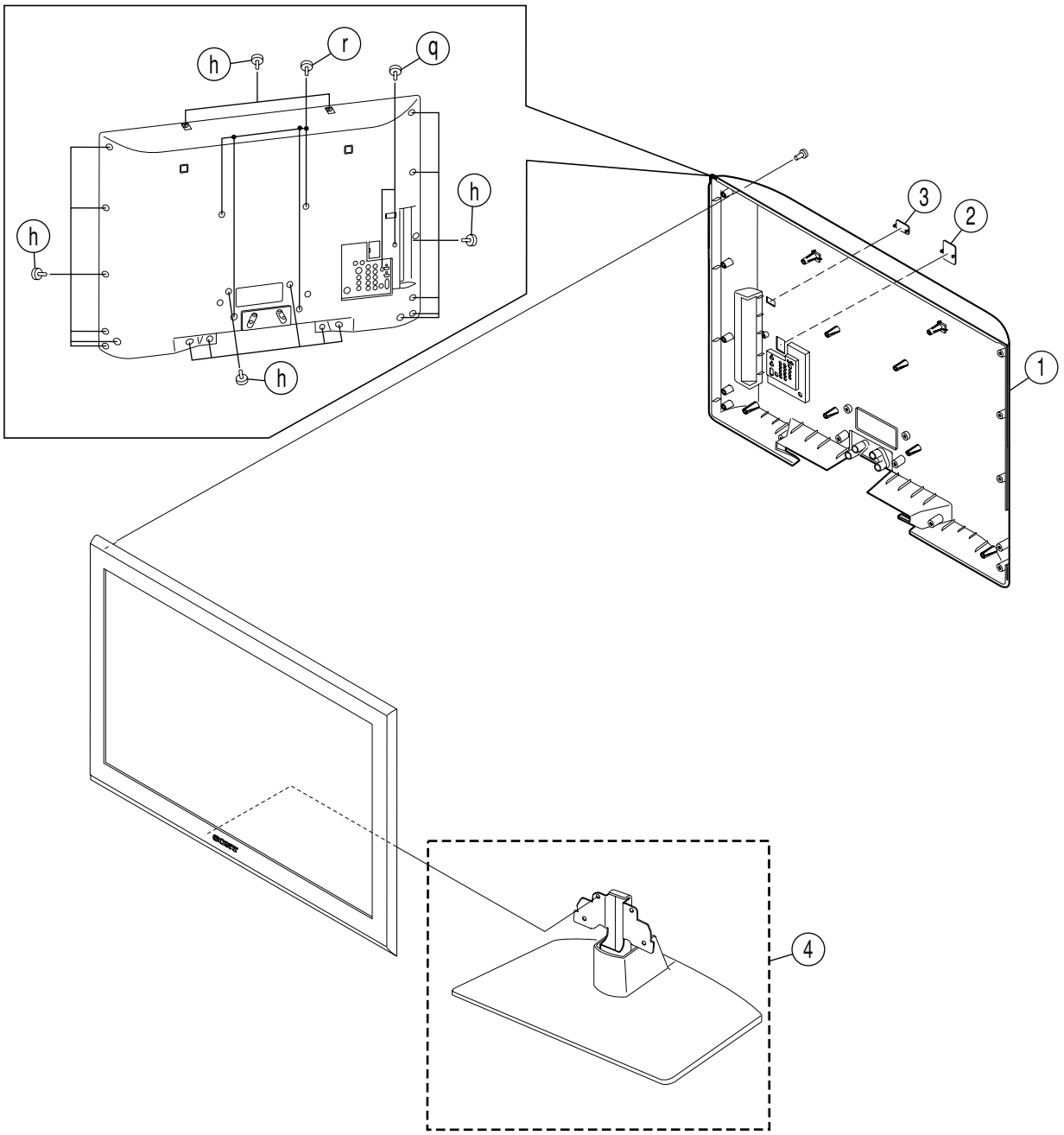


REF. NO.		PART NO.	DESCRIPTION	REMARK
51		X-2345-178-1	BEZEL ASSY(46C)	
52	⚠	1-802-880-11	LCD PANEL(46INCH FHD TFT)	
53		1-858-170-11	LOUDSPEAKER	
54	🔒	A-1704-487-A	BA COMPL(SERVICE) (Except KLV-46V550A(Russia))	
	🔒	A-1729-541-A	BA COMPL(SERVICE)(KLV-46V550A(Russia))	
55		4-125-783-21	BRACKET, SIDE JACK(EX2L)	
56		4-127-410-01	COVER, UNDER(M)	
57		4-127-412-01	BAR, UNDER(M)	
58		A-1671-630-A	HSN MOUNT	
59		A-1671-628-A	HL1A MOUNT	
60		4-124-431-01	GUIDE, LED(C)	
61		4-124-432-01	GUIDE, IR(C)	
62		1-487-234-11	SWITCH UNIT	
63	*	A-1660-728-A	IP2 COMPL	
64	⚠	1-822-147-11	AC INLET	
	⚠	1-822-617-11	AC INLET FILTER	
65		2-635-749-11	EMBLEM, SONY NO.9	

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

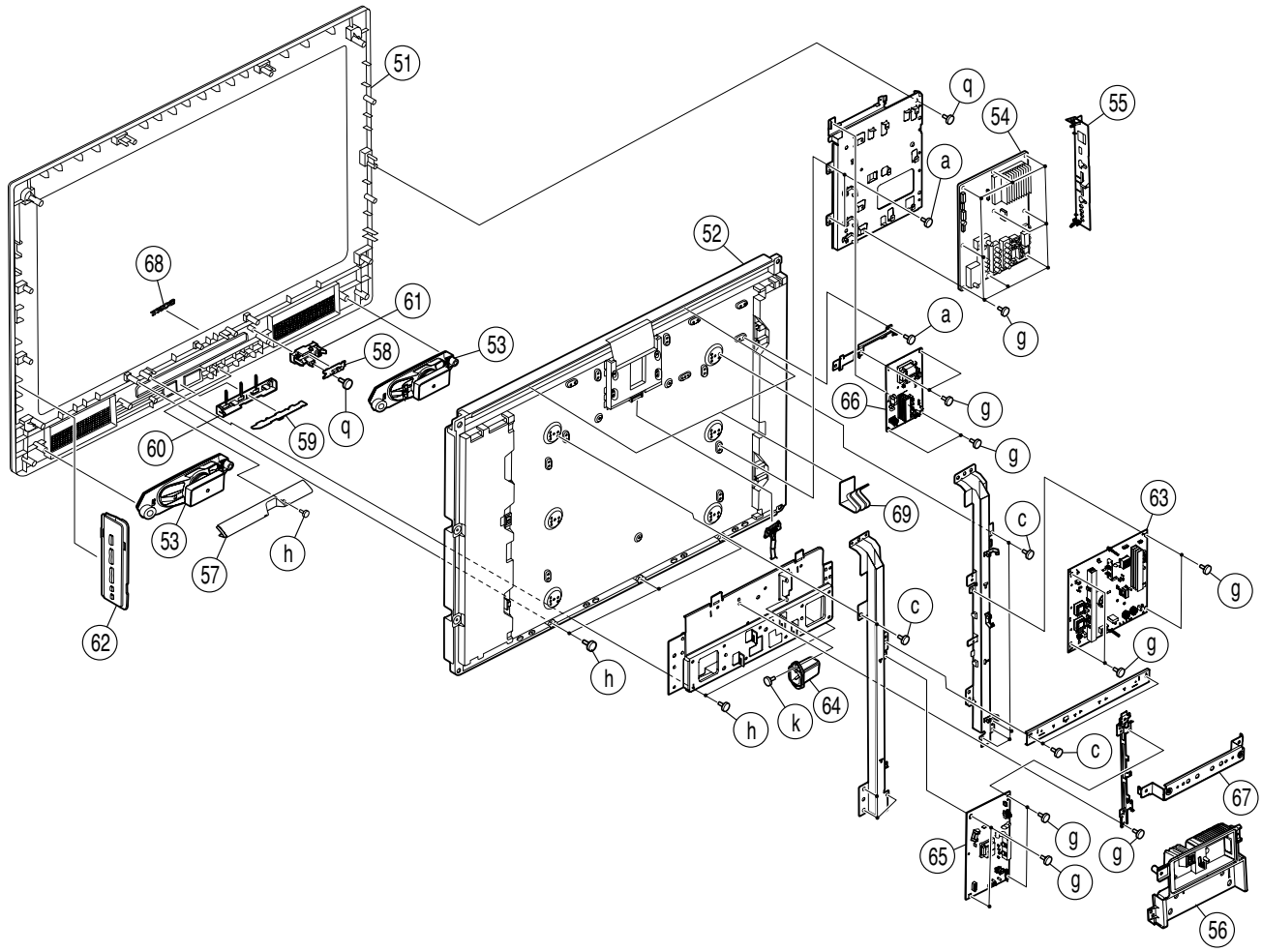
8-4 KLV-52V550A

8-4-1. REAR CABINET AND STAND ASSY



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		X-2348-971-1	REAR COVER(52) ASSY	
2	*	4-115-101-01	COVER, ECS	
	*	3-106-086-01	COVER, ECS	
3	*	4-127-924-01	COVER, ECS(S)	
4		X-2345-870-1	STAND ASSY(LL2A)	

8-4-2. BOARDS, SPEAKERS, BEZEL AND PANEL



REF. NO.		PART NO.	DESCRIPTION	REMARK
51		X-2345-171-1	BEZEL ASSY(52C)	
52	⚠	1-802-651-15	LCD PANEL(52 FHD TFT)	
53		1-858-183-11	LOUDSPEAKER	
54	🔒 *	A-1705-967-A	BA COMPL(SERVICE) (Except KLV-52V550A(Russia, Tunisia))	
	🔒	A-1729-824-A	BA COMPL(SERVICE) (KLV-52V550A(Russia, Tunisia))	
55		4-125-783-21	BRACKET, SIDE JACK(EX2L)	
56	*	4-130-503-01	COVER, UNDER(L)	
57	*	4-130-506-01	BAR, UNDER(L)	
58		A-1671-630-A	HSN MOUNT	
59		A-1671-628-A	HL1A MOUNT	
60		4-124-431-01	GUIDE, LED(C)	
61		4-124-432-01	GUIDE, IR(C)	
62		1-487-234-11	SWITCH UNIT	
63		1-487-340-11	POWER UNIT	
64	⚠	1-821-909-11	AC INLET	
			(KLV-52V550A(ME, South Africa, India, Iran,	
			Philippines, Thailand))	
	⚠	1-822-618-11	AC INLET FILTER	
			(Except KLV-52V550A(Russia, Tunisia))	
	⚠	1-822-622-11	AC INLET FILTER(KLV-52V550A(Russia, Tunisia))	
65	*	A-1663-196-A	D5N COMPL	
66	*	A-1663-200-A	D6N COMPL	
67		4-129-446-01	FRAME, VESA TOP(52)	
68		2-635-749-11	EMBLEM, SONY NO.9	
69		2-661-200-01	SPRING, PANEL(KLV-52V550A(Russia))	

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

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

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

Due to complexity of the board, performing component level field repairs are not recommended. Complete board replacement is required if service is necessary.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

9-1. KLV-32 V530A, V550A, V550A/R, V550A/W

REF NO.	PART NO.	DESCRIPTION	REMARK
🔒	A-1729-823-A	BA COMPL(SERVICE) (KLV-32V550A(Russia, Tunisia))	
🔒	A-1706-632-A	BA COMPL(SERVICE) (Except KLV-32V530A, 32V550A(Russia, Tunisia))	
🔒	A-1709-774-A	BA COMPL(SERVICE) (KLV-32V530A)	
		**********	
	1-474-163-41	POWER UNIT	
		**********	
	A-1671-628-A	HL1A MOUNT	
		**********	
	A-1671-630-A	HSN MOUNT	
		**********	
		<CONNECTORS>	
	1-836-672-11	READ WIRE WITH CONNECTOR(LVDS) (CN4501(BA)-TCON(1))	
*	1-910-057-24	HARNESS ASSY (CN5503(BA)-SWITCH(HSW3)-CN301(HL1A)-CN401(HSN)-CN7201(BA)-SP(1))	
*	1-910-053-98	CONNECTOR ASSY 13P (CN1300(BA)-CN6201(G2BE)(1))	
*	1-910-053-99	CONNECTOR ASSY 14P (CN1301(BA)-CN6202(G2BE)-INV(1))	
		ACCESSORIES AND PACKING	
		**********	
*	4-131-728-01	CUSHION, UPPER	
*	4-131-729-01	CUSHION, LOWER	
*	4-133-356-01	INDIVIDUAL CARTON (KLV-32V530A, 32V550A(ME, Tunisia, South Africa, Russia), 32V550A/R(South Africa, ME), 32V550A/W(South Africa, ME))	
*	4-140-757-01	INDIVIDUAL CARTON (KLV-32V530A)	
*	4-140-448-01	INDIVIDUAL CARTON (KLV-32V550A(India, Philippines, Thailand), 32V550A/R(Philippines, Thailand), 32V550A/W(Philippines, Thailand))	
⚠	1-836-510-11	POWER SUPPLY CORD(WITH CONNECTOR) (Except KLV-32V550A(India, Thailand), 32V550A/R(Thailand), 32V550A/W(Thailand))	
⚠	1-836-511-11	POWER SUPPLY CORD(WITH CONNECTOR) (KLV-32V550A(Thailand), 32V550A/R(Thailand), 32V550A/W(Thailand))	
⚠	1-836-512-11	POWER SUPPLY CORD WITH CONNECTOR (KLV-32V550A(India))	
	X-2348-140-1	BAG ASSY, BELT FALL LOCK (Except KLV-32V550A/R(South Africa), 32V550A/W(South Africa))	
	X-2186-601-1	BAG ASSY, RUDDER LOCK (KLV-32V550A/R(South Africa), 32V550A/W(South Africa))	
	X-2186-603-1	LOCK ASSY, RUDDER (KLV-32V550A/R(South Africa), 32V550A/W(South Africa))	
	4-022-115-00	HOLDER, AC CORD	
	2-593-320-02	SCREW, CION(M6 X 18) (KLV-32V550A/R(South Africa), 32V550A/W(South Africa))	
	2-580-604-01	SCREW, +PSW M4X20 (Except KLV-32V550A/R(South Africa), 32V550A/W(South Africa))	
	2-580-663-02	SCREW, WOOD 3.8X20	
	4-138-285-11	MANUAL, INSTRUCTION (KLV-32V550A(India, Philippines, Thailand), 32V550A/R(Philippines, Thailand), 32V550A/W(Philippines, Thailand))	
	4-138-285-21	MANUAL, INSTRUCTION (KLV-32V550A(Thailand), 32V550A/R(Thailand), 32V550A/W(Thailand))	
	4-138-285-31	MANUAL, INSTRUCTION (KLV-32V550A(Philippines), 32V550A/R(Philippines), 32V550A/W(Philippines))	
	4-135-850-11	MANUAL, INSTRUCTION (KLV-32V530A, 32V550A(ME, Tunisia, South Africa), 32V550A/R(South Africa, ME), 32V550A/W(South Africa, ME))	
	4-135-850-21	MANUAL, INSTRUCTION (KLV-32V550A(ME), 32V550A/R(ME), 32V550A/W(ME))	
	4-135-850-31	MANUAL, INSTRUCTION (KLV-32V530A, 32V550A(ME, Tunisia), 32V550A/R(ME), 32V550A/W(ME))	
	4-135-850-41	MANUAL, INSTRUCTION (KLV-32V530A, 32V550A(ME), 32V550A/R(ME), 32V550A/W(ME))	
	4-135-850-51	MANUAL, INSTRUCTION (KLV-32V530A, 32V550A(ME, Russia), 32V550A/R(ME), 32V550A/W(ME))	
	4-135-850-61	MANUAL, INSTRUCTION (KLV-32V530A, 32V550A(ME, Tunisia), 32V550A/R(ME), 32V550A/W(ME))	
	4-135-850-71	MANUAL, INSTRUCTION (KLV-32V550A(Russia))	
	2-580-608-01	SCREW, +PSW M5X16	
	1-821-926-11	PLUG CONVERSION ADAPTOR (KLV-32V550A(South Africa), 32V550A/R (South Africa), 32V550A/W(South Africa))	
	1-569-008-33	ADAPTOR, CONVERSION (KLV-32V550A(Philippines), 32V550A/R(Philippines), 32V550A/W(Philippines))	

REF NO.	PART NO.	DESCRIPTION	REMARK
		REMOTE COMMANDER	
		**********	
	1-487-306-11	REMOTE COMMANDER(RM-GA015)	
	9-888-117-43	COVER,BATTERY	
**********			
		MISCELLANEOUS	
		**********	
	4-100-136-01	SHEET(CORE), C (INVERTER(2), HARNESS(3), SWITCH(1), LVDS(1), FRAME BOTTOM(1)) (KLV-32V530A, 32V550A(ME, Tunisia, South Africa), 32V550A/R(South Africa, ME), 32V550A/W(South Africa, ME))	
**********			

9-2. KLV-40 V530A, V550A, V550A/R, V550A/W

🔒	A-1728-485-A	BA COMPL(SERVICE) (KLV-40V550A(Russia, Tunisia))
🔒	A-1707-235-A	BA COMPL(SERVICE) (Except KLV-40V530A, 40V550A(Russia, Tunisia))
🔒	A-1707-260-A	BA COMPL(SERVICE) (KLV-40V530A)
		**********
	A-1660-720-A	IP1 COMPL
		**********
	A-1671-628-A	HL1A MOUNT
		**********
	A-1671-630-A	HSN MOUNT
		**********
**********		
		<CONNECTORS>
*	1-910-053-96	CONNECTOR ASSY 7P (CN6701(IP1)-BAL(1))
*	1-836-420-11	CONNECTOR ASSY, MDF61 (CN6700(IP1)-BAL(1))
	1-836-654-11	READ WIRE WITH CONNECTOR(LVDS) (CN4501(BA)-TCON(1))
*	1-910-057-25	HARNESS ASSY (CN5503(BA)-SWITCH(HSW3)-CN301(HL1A)- CN401(HSN)-CN7201(BA)-SP(1))
*	1-910-057-42	SUB HARNESS ASSY (CN1300(BA)-CN6150(IP1)-CN1301(BA)- CN6154(IP1)(1))
**********		
		ACCESSORIES AND PACKING
		**********
⚠	1-835-138-11	POWER-SUPPLY CORD SET (KLV-40V550A(ME, Philippines), 40V550A/R(Philippines,ME), 40V550A/W(Philippines, ME))
⚠	1-835-165-11	POWER SUPPLY CORD (KLV-40V530A, 40V550A(ME), 40V550A/R(ME), 40V550A/W(ME))
⚠	1-835-200-11	POWER-SUPPLY CORD (KLV-40V530A, 40V550A(Tunisia, ME, Iran, Russia, Philippines), 40V550A/R(Philippines,ME), 40V550A/W(Philippines, ME))
⚠	1-835-126-12	POWER-SUPPLY CORD SET (KLV-40V550A(Thailand), 40V550A/R(Thailand), 40V550A/W(Thailand))
⚠	1-835-166-11	POWER-SUPPLY CORD SET (KLV-40V550A(South Africa), 40V550A/R(South Africa), 40V550A/W(South Africa))
⚠	1-835-281-11	POWER-SUPPLY CORD SET (KLV-40V550A(India))
	X-2348-140-1	BAG ASSY, FALL LOCK BELT
*	4-131-731-01	CUSHION, UPPER
*	4-131-732-01	CUSHION, LOWER
*	4-133-316-01	INDIVIDUAL CARTON (KLV-40V530A, 40V550A(ME, Tunisia, South Africa, Russia), 40V550A/R(ME, South Africa), 40V550A/W(ME, South Africa))
*	4-138-284-01	INDIVIDUAL CARTON (KLV-40V550A(India, Philippines, Thailand), 40V550A/R(Philippines, Thailand), 40V550A/W(Philippines, Thailand))
*	4-146-217-01	INDIVIDUAL, CARTON (KLV-40V550A(Iran))
	2-580-604-01	SCREW, +PSW M4X20
	2-580-663-02	SCREW, WOOD 3.8X20
	4-135-850-11	MANUAL, INSTRUCTION (KLV-40V530A, 40V550A(ME, Tunisia, South Africa), 40V550A/R(ME, South Africa) 40V550A/W(ME, South Africa))
	4-135-850-21	MANUAL, INSTRUCTION (KLV-40V550A(ME), 40V550A/R(ME), 40V550A/W(ME))
	4-135-850-31	MANUAL, INSTRUCTION (KLV-40V530A, 40V550A(ME, Tunisia), 40V550A/R(ME), 40V550A/W(ME))
	4-135-850-41	MANUAL, INSTRUCTION (KLV-40V530A, 40V550A(ME), 40V550A/R(ME), 40V550A/W(ME))
	4-135-850-51	MANUAL, INSTRUCTION (KLV-40V530A, 40V550A(ME, Russia), 40V550A/R(ME), 40V550A/W(ME))
	4-135-850-61	MANUAL, INSTRUCTION (KLV-40V530A, 40V550A(Tunisia, ME), 40V550A/R(ME), 40V550A/W(ME))
	4-135-850-71	MANUAL, INSTRUCTION (KLV-40V550A(Russia))
	4-138-285-11	MANUAL, INSTRUCTION (KLV-40V550A(India, Philippines, Thailand), 40V550A/R(Philippines, Thailand), 40V550A/W(Philippines, Thailand))
	4-138-285-21	MANUAL, INSTRUCTION (KLV-40V550A(Thailand), 40V550A/R(Thailand), 40V550A/W(Thailand))
	4-138-285-31	MANUAL, INSTRUCTION (KLV-40V550A(Philippines), 40V550A/R(Philippines), 40V550A/W(Philippines))
	4-146-106-11	MANUAL, INSTRUCTION (KLV-40V550A(Iran))
	2-580-608-01	SCREW, +PSW M5X16
**********		
		REMOTE COMMANDER
		**********
	1-487-306-11	REMOTE COMMANDER(RM-GA015)
	9-888-117-43	COVER,BATTERY
**********		

REF NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
	4-100-136-01	SHEET(CORE), C (HARNESS(3), BEZEL(1), BALANCER(1), SWITCH(1), LVDS(1))	
	4-125-026-01	SHEET, INSULATING(IP1)	

****

9-3. KLV-46V550A

🔒	A-1729-541-A	BA COMPL(SERVICE)(KLV-46V550A(Russia))	
🔒	A-1704-487-A	BA COMPL(SERVICE) (Except KLV-46V550A(Russia))	
		**********	
	A-1660-728-A	IP2 COMPL	
		**********	
	A-1671-628-A	HL1A MOUNT	
		**********	
	A-1671-630-A	HSN MOUNT	
		**********	

****

		CONNECTORS	
		**********	
*	1-836-419-11	CONNECTOR ASSY, MDF61 (CN6700(IP2)-BAL(1))	
	1-836-668-11	READ WIRE WITH CONNECTOR(LVDS) (CN4501(BA)-TCON(1))	
*	1-910-057-26	HARNESS ASSY (CN5503(BA)-SWITCH(HSW3)-CN301(HL1A), CN401(HSN)-CN7201(BA)-SP(1))	
*	1-910-053-92	SUB HARNESS ASSY (CN1300(BA)-CN6150(IP2)-CN1301(BA)-CN6154(IP2)(1))	
*	1-910-054-12	CONNECTOR ASSY 7P (CN6701(IP2)-BAL(1))	

****

		ACCESSORIES AND PACKING	
		**********	
⚠	1-835-138-11	POWER-SUPPLY CORD SET (KLV-46V550A(Philippines, ME))	
⚠	1-835-165-11	POWER SUPPLY CORD (KLV-46V550A(ME))	
⚠	1-835-200-11	POWER-SUPPLY CORD (KLV-46V550A(Philippines, ME, Russia))	
⚠	1-835-281-11	POWER-SUPPLY CORD SET (KLV-46V550A(India))	
⚠	1-835-126-12	POWER-SUPPLY CORD SET (KLV-46V550A(Thailand))	
⚠	1-835-166-11	POWER-SUPPLY CORD SET (KLV-46V550A(South Africa))	
*	4-131-734-01	CUSHION, UPPER	
*	4-131-735-01	CUSHION, LOWER	
*	4-133-177-01	INDIVIDUAL CARTON	
	X-2348-140-1	BAG ASSY, FALL LOCK BELT	
	2-580-604-01	SCREW, +PSW M4X20	
	2-580-663-02	SCREW, WOOD 3.8X20	
	4-135-850-11	MANUAL, INSTRUCTION (KLV-46V550A(ME, South Africa))	
	4-135-850-21	MANUAL, INSTRUCTION (KLV-46V550A(ME))	
	4-135-850-31	MANUAL, INSTRUCTION (KLV-46V550A(ME))	
	4-135-850-41	MANUAL, INSTRUCTION (KLV-46V550A(ME))	
	4-135-850-51	MANUAL, INSTRUCTION (KLV-46V550A(ME, Russia))	
	4-135-850-61	MANUAL, INSTRUCTION (KLV-46V550A(ME))	
	4-135-850-71	MANUAL, INSTRUCTION (KLV-46V550A(Russia))	
	4-138-285-11	MANUAL, INSTRUCTION (KLV-46V550A(Philippines, India, Thailand))	
	4-138-285-21	MANUAL, INSTRUCTION (KLV-46V550A(Thailand))	
	4-138-285-31	MANUAL, INSTRUCTION (KLV-46V550A(Philippines))	
	2-580-608-01	SCREW, +PSW M5X16	

****

		REMOTE COMMANDER	
		**********	
	1-487-306-11	REMOTE COMMANDER(RM-GA015)	
	9-888-117-43	COVER,BATTERY	

****

		MISCELLANEOUS	
		**********	
	4-100-136-01	SHEET(CORE), C (BALANCER(1), BEZEL(1), SWITCH(1), LVDS(1))	
	4-125-027-01	SHEET, INSULATING(IP2)	

9-4. KLV-52V550A

REF NO.	PART NO.	DESCRIPTION	REMARK
	A-1729-824-A	BA COMPL(SERVICE) (KLV-52V550A(Russia, Tunisia))	
🔒	A-1705-967-A	BA COMPL(SERVICE) (Except KLV-52V550A(Russia, Tunisia))	
		**********	
	1-487-340-11	POWER UNIT	
		**********	
*	A-1663-196-A	D5N COMPL	
		**********	
*	A-1663-200-A	D6N COMPL	
		**********	
	A-1671-628-A	HL1A MOUNT	
		**********	
	A-1671-630-A	HSN MOUNT	
		**********	
**********			
		CONNECTORS	
		**********	
*	1-835-715-11	CONNECTOR ASSY (CN6301(G5)-CN6600(D5)(1))	
*	1-836-138-11	CONNECTOR ASSY (CN6302(G5)-CN6900(D6)(1))	
*	1-836-417-11	CONNECTOR ASSY (CN6710(D5)-BAL(1))	
*	1-836-418-11	CONNECTOR ASSY (CN6954(D6)-BAL(1))	
	1-836-669-11	READ WIRE WITH CONNECTOR(LVDS) (CN4501(BA)-TCON(1))	
*	1-910-054-00	HARNESS ASSY (CN5503(BA)-SWITCH(HSW3)-CN301(HL1A)-(CN401(HSN)-CN7201(BA)-SP(1))	
*	1-910-057-43	SUB HARNESS ASSY (CN1300(BA)-CN6202(G5)-CN1301(BA)-CN6204(G5)(1))	
*	1-910-054-02	CONNECTOR ASSY 8P (CN6201(G5)-CN6702(D5)(1))	
*	1-910-054-04	CONNECTOR ASSY 7P (CN6701(D5)-BAL(1))	
*	1-910-054-13	CONNECTOR ASSY 9P (CN6703(D5)-CN6950(D6)(1))	
**********			
		ACCESSORIES AND PACKING	
		**********	
⚠	1-835-165-11	POWER SUPPLY CORD (KLV-52V550A(ME))	
⚠	1-835-138-11	POWER-SUPPLY CORD SET (KLV-52V550A(ME, Philippines))	
⚠	1-835-200-11	POWER-SUPPLY CORD (KLV-52V550A(ME, Tunisia, Philippines, Iran, Russia))	
⚠	1-835-126-12	POWER-SUPPLY CORD SET (KLV-52V550A(Thailand))	
⚠	1-835-166-11	POWER-SUPPLY CORD SET (KLV-52V550A(South Africa))	
⚠	1-835-281-11	POWER-SUPPLY CORD SET (KLV-52V550A(India))	
*	4-131-820-01	CUSHION, UPPER	
*	4-131-821-01	CUSHION, LOWER	
*	4-133-423-01	INDIVIDUAL CARTON(52C) (Except KLV-52V550A(Iran))	
*	4-146-097-01	INDIVIDUAL CARTON (KLV-52V550A(Iran))	
	X-2348-140-1	BAG ASSY, FALL LOCK BELT	
	2-580-604-01	SCREW, +PSW M4X20	
	2-580-663-02	SCREW, WOOD 3.8X20	
*	2-639-807-01	JOINT	
	4-135-850-11	MANUAL, INSTRUCTION (KLV-52V550A(ME, Tunisia, South Africa))	
	4-135-850-21	MANUAL, INSTRUCTION (KLV-52V550A(ME))	
	4-135-850-31	MANUAL, INSTRUCTION (KLV-52V550A(ME, Tunisia))	
	4-135-850-41	MANUAL, INSTRUCTION (KLV-52V550A(ME))	
	4-135-850-51	MANUAL, INSTRUCTION (KLV-52V550A(ME, Russia))	
	4-135-850-61	MANUAL, INSTRUCTION (KLV-52V550A(ME, Tunisia))	
	4-135-850-71	MANUAL, INSTRUCTION(KLV-52V550A(Russia))	
	4-138-285-11	MANUAL, INSTRUCTION (KLV-52V550A(India, Philippines, Thailand))	
	4-138-285-21	MANUAL, INSTRUCTION (KLV-52V550A(Thailand))	
	4-138-285-31	MANUAL, INSTRUCTION (KLV-52V550A(Philippines))	
	4-146-106-11	MANUAL, INSTRUCTION (KLV-52V550A(Iran))	
**********			
		REMOTE COMMANDER	
		**********	
	1-487-306-11	REMOTE COMMANDER(RM-GA015)	
	9-888-117-43	COVER,BATTERY	
**********			
		MISCELLANEOUS	
		**********	
	4-100-136-01	SHEET(CORE), C (HARNESS(4), BALANCER(1), BEZEL(1), SWITCH(1), LVDS(2), INVERTER(3)) (KLV-52V550A(ME, Iran, Tunisia, South Africa, Russia))	

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SONY

LCD Colour TV

Operating Instructions

KLV-52V550A

KLV-46V550A

KLV-40V550A

KLV-40V530A

KLV-32V550A

KLV-32V530A

BRAVIA

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4-135-850-**11**(1)

Introduction

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

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.

“XMB” and “xross media bar” are trademarks of Sony Corporation and Sony Computer Entertainment Inc.

DynaFont is used for Traditional Chinese characters.
The typefaces used on the screen display are solely developed by DynaComware.

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Before operating the TV, please read “Safety Information” (page 8). Retain this manual for future reference.

Before Use

To check the accessories

AC power cord (For KLV-52/46/40V550A/ KLV-40V530A)

Cable holder (1) (For KLV-52/46/40V550A/ KLV-40V530A)

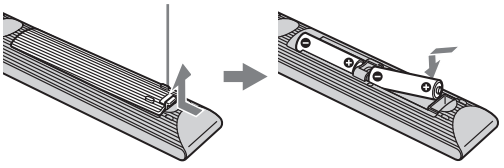
Stand (1) and screws (4) (For KLV-46/40/32V550A/ KLV-40/32V530A)

Remote RM-GA015 (1)

Size AA batteries (R6 type) (2)

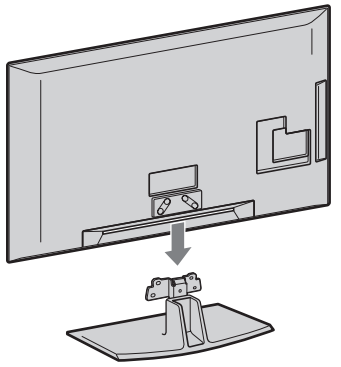
To insert batteries into the remote

Push and lift the cover to open.

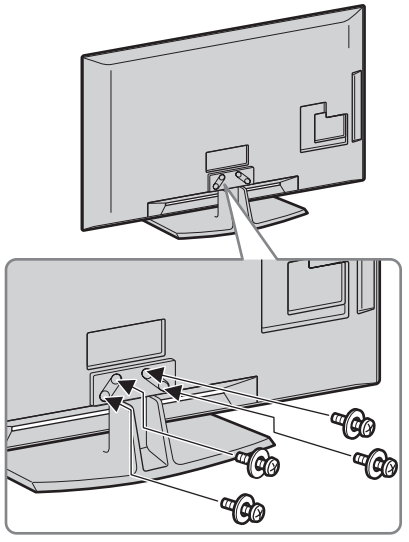


1: Attaching the stand (For KLV-46/40/32V550A/ KLV-40/32V530A)

1



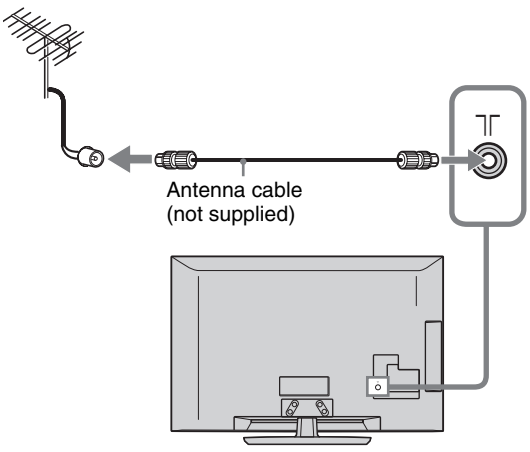
2



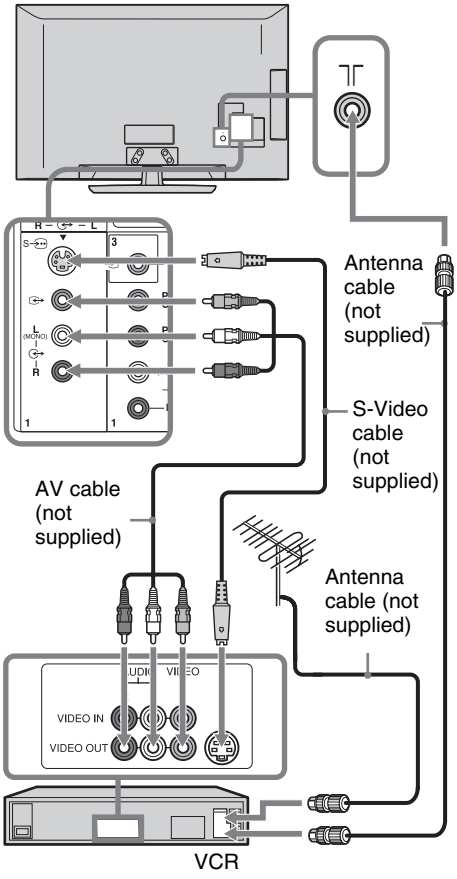
- If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m (15 kgf·cm).

2: Connecting an antenna/ cable/VCR

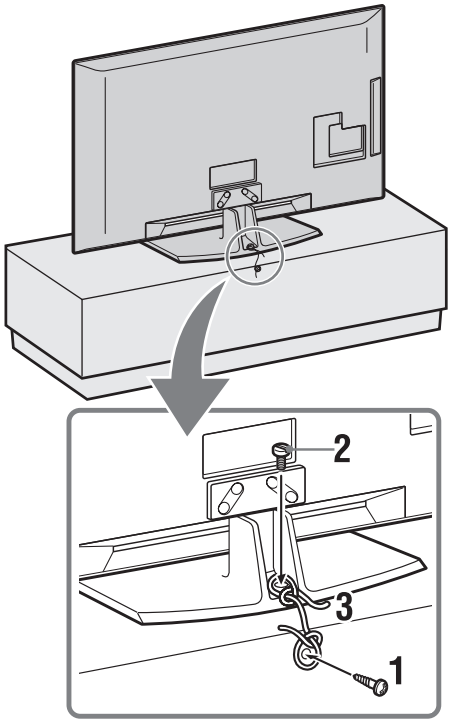
Connecting an antenna/cable



Connecting an antenna/cable and VCR



3: Preventing the TV from toppling over



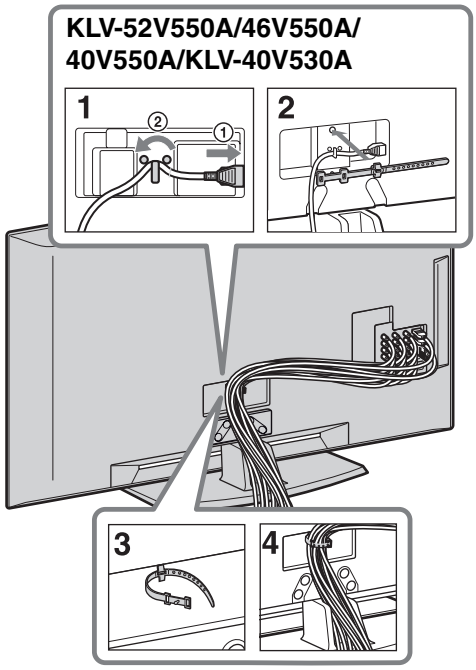
1 Install a wood screw (4 mm in diameter, not supplied) in the TV stand.

2 Install a machine screw (M4 × 20, not supplied) into the screw hole of the TV.

3 Tie the wood screw and the machine screw with a strong cord (not supplied).

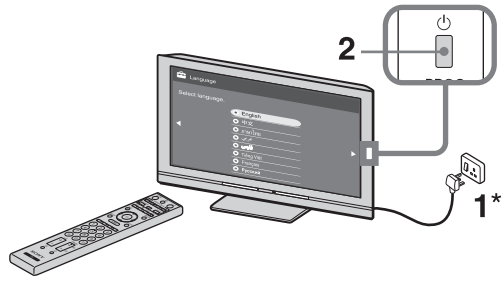
- An optional Sony support belt kit is used to secure the TV. Contact your nearest Sony service centre to purchase a kit. Have your TV model name ready for reference.

4: Bundling the cables



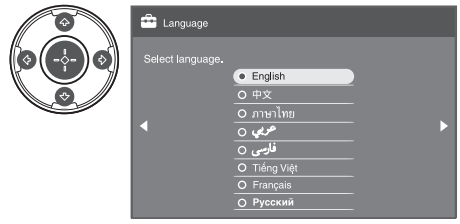
- Do not bundle the mains lead/AC power cord together with other cables.
- The illustration may differ from that of the actual rear panel, and the mains lead/AC power cord may already be connected, depending on the screen size.

5: Performing the initial set-up



* The shapes of mains plug/AC power plug and mains socket/AC power outlet differ depending on the region.

3



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 31).

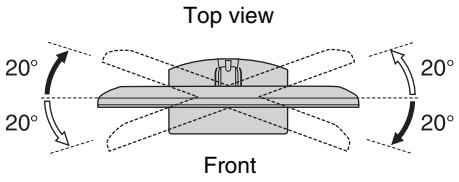
Eco Preset: When you select “Yes”, the “Eco” settings are changed into recommended values to reduce power consumption.

- You can also tune channels manually (page 31).
- Language options vary depending on model.

Adjusting the viewing angle of the TV

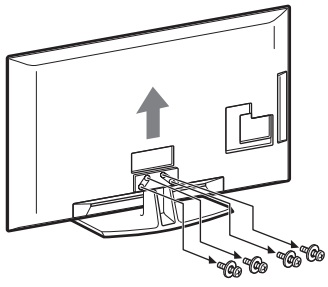
This TV can be adjusted within the angles shown below.

Adjust the angle left and right (swivel)



Detaching the Table-Top Stand from the TV

- Remove the screws guided by the arrow marks ⬆ of the TV.
- Do not remove the Table-Top Stand for any reason other than listed below.
  – To wall-mount the TV.



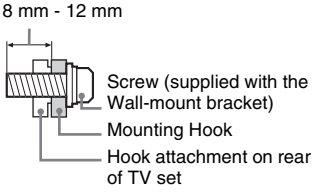
Safety Information

Installation/Set-up

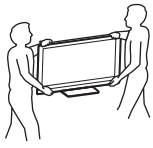
Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation

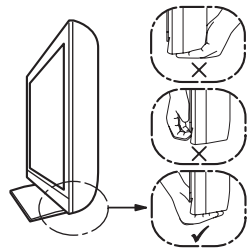
- The TV set should be installed near an easily accessible AC power outlet.
- Place the TV set on a stable, level surface to avoid it from falling down and cause personal injury or damage to the TV.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  - Wall-mount bracket SU-WL500
  - Wall-mount bracket SU-WL50B
- 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.



Transporting



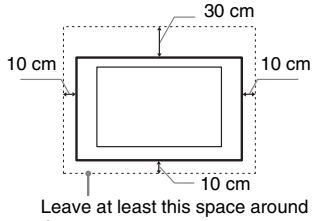
- Before transporting the TV set, disconnect all cables.
- Two or three people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel and the frame around the screen.
- When lifting or moving the TV set, hold it 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 it using the original carton and packing material.



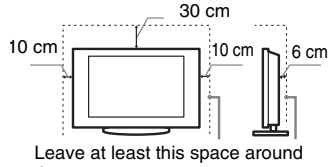
Ventilation

- 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.

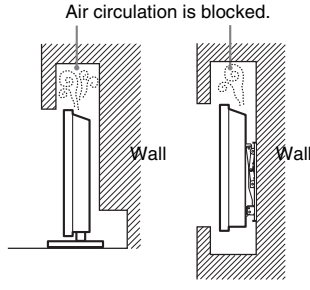
Installed on the wall



Installed with stand



- 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.



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:

- 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
  (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.

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.

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.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

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. Mercury is sometimes contained depending on the kind of fluorescent tubes. 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.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage 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

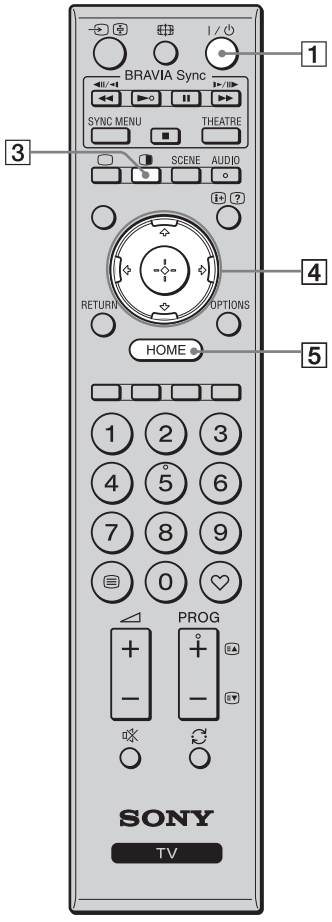
Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.

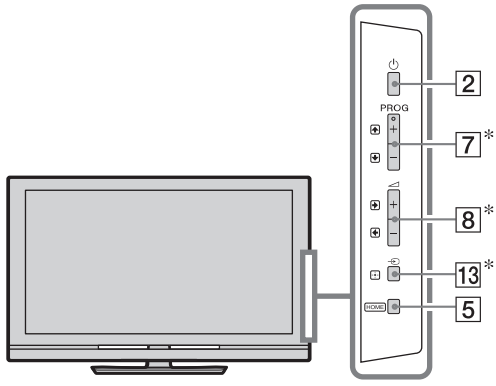
Batteries

- 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.

Remote and TV Controls/Indicators

Remote and TV controls



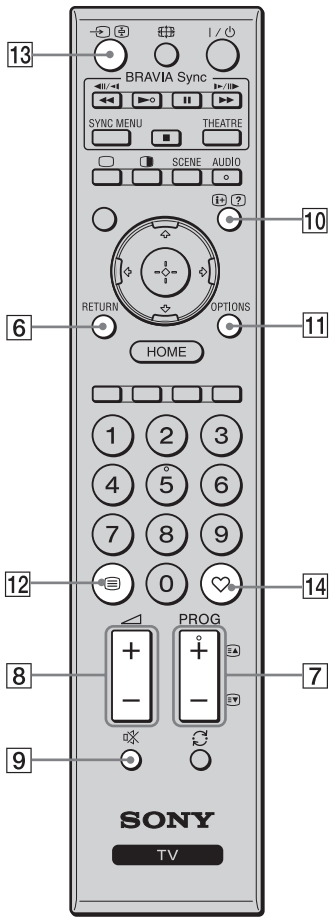


Buttons on the TV will work the same as those on the remote.

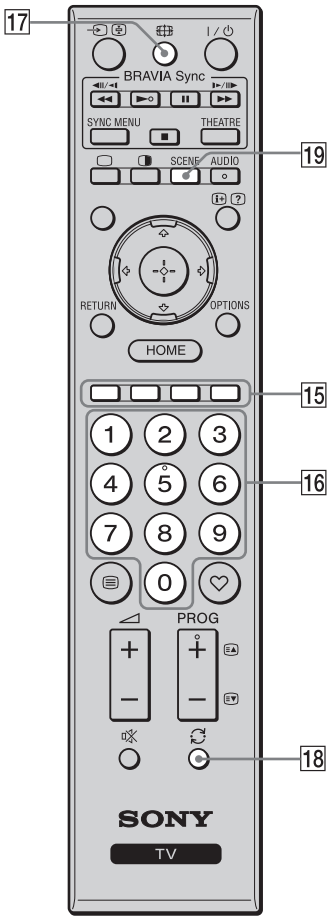
* In the TV menu, these buttons will work as ⇧/⇩/⇦/⇨/⊕.

- The number **5**, ►, **PROG +** and **AUDIO** buttons on the remote have a tactile dot. Use the tactile dots as a reference when operating the TV.

Button/Switch	Description
1 **I/⏻ (TV standby)**	Press to turn the TV on or to switch to standby mode.
2 **⏻ (Power)**	Press to turn the TV on or off. • To turn the TV completely off, turn off the TV, then unplug the mains lead/AC power cord from the mains/AC power.
3 **◑ — Twin Picture/PIP**	Displays two pictures simultaneously (page 20).
4 ⇧/⇩/⇦/⇨/⊕	Press ⇧/⇩/⇦/⇨ to move the on-screen cursor. Press ⊕ to select/confirm the highlighted item. When playing a photo file: Press ⊕ to pause/start a slideshow. Press ⇧/⇦ to select the previous file. Press ⇩/⇨ to select the next file. When playing a music/video file: Press ⊕ 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.
5 **HOME**	Press to display the TV Home Menu (page 23).



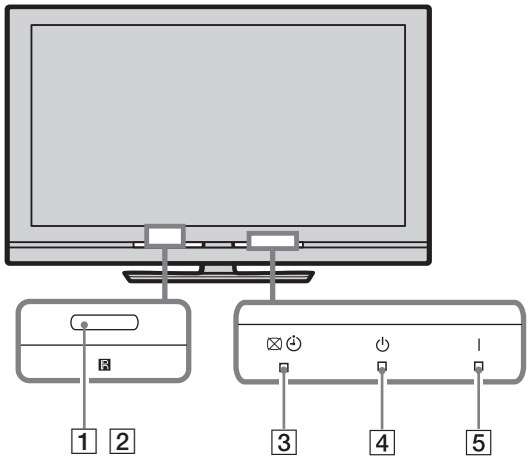
6	**RETURN**	Press to return to the previous screen of the displayed menu. When playing a photo/music/video file: Press to stop the playback (the display returns to the file or folder list).
7	**PROG +/–/ ▲/▼**	**In TV mode:** Press to select the next (+) or previous (–) channel. **In Text mode:** Press to select the next (▲) or previous (▼) page.
8	**+/– (Volume)**	Press to adjust the volume.
9	**(Mute)**	Press to mute the sound. Press again to restore the sound. • In standby mode, if you want to turn on the TV without sound, press this button.
10	**(Info/ Text reveal)**	Press once to display current channel number, scene mode, sound mode and screen mode. Press again to display clock information. Press third time to remove the display from the screen. **In Text mode (page 15):** Reveals hidden information (e.g. answers to a quiz).
11	**OPTIONS**	Press to display a list that contains "Device Control" or shortcuts to some setting menus. Use the "Device Control" menu to operate equipment that is compatible with control for HDMI. The listed options vary depending on the input source.
12	**(Text)**	Press to display text information (page 15).
13	**(Input select/Text hold)**	**In TV mode:** Press to display a list of inputs. **In Text mode:** Press to hold the current page.
14	♡ **(Favourite)**	Press to display the Favourite List that you have selected (page 17).



15	**Coloured buttons**	**In Text mode:** When the coloured buttons are available, an operation guide appears on the screen.
16	**Number buttons**	**In TV mode:** Press to select channels. For channel numbers 10 and above, press the next digit quickly. **In Text mode:** Press to enter a page number.
17	**(Wide Mode)**	Press to change the screen format (page 16).
18	**(Previous channel)**	Returns to the previous channel watched (for more than five seconds).
19	**SCENE**	Press to display the "Scene Select" menu. When you select the desired scene option, the optimum sound quality and picture quality for the selected scene are automatically set. Press ⇧/⇩/⇦/⇨ to select the scene option, then press ⊕. **Cinema:** Delivers picture scenes just like those in a theatre-like atmosphere with dynamic sound. **Sports:** Delivers picture scenes that enable you experience realistic picture and sound like those in a stadium. **Photo:** Delivers picture scenes that authentically reproduces the texture and colour of a printed photo. **Music:** Delivers sound effects that enable you experience dynamic and clear sound like that at a concert. **Game:** Delivers picture scenes that enable you enjoy your game-playing experience to the fullest with superb picture and sound quality. **Graphics:** Delivers picture scenes that ease your prolonged monitor viewing experience and reduce fatigue by displaying clearer detailed pictures. **General:** Please use it when not depending on a specific scene. **Auto:** The optimum sound quality and picture quality are automatically set according to the input source, though there may not be any effect depending on the connected devices. ✍ • When you set Theatre Mode (page 13) to on, the "Scene Select" setting switches to "Cinema" automatically.

20	**AUDIO**	Press to change the dual sound mode (page 27).
21	**BRAVIA Sync**	**◀◀/►/❚❚/►►/■:** You can operate the BRAVIA Sync-compatible equipment that is connected to the TV. **SYNC MENU:** Displays the menu of connected HDMI equipment. While viewing other input screens or TV programmes, "HDMI Device Selection" is displayed when the button is pressed. **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.
22	**(TV mode)**	Exit Text mode, or switches to a TV display when displaying external input.

Indicators

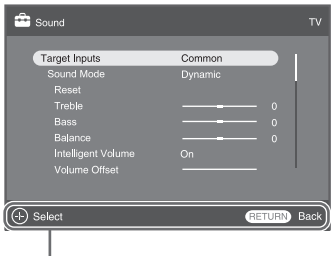


Indicator	Description
1 **Light sensor (page 24)**	Do not put anything over the sensor, doing so may affect its function.
2 **Remote control sensor**	Receives signals from the remote. Do not put anything over the sensor. The sensor may not work properly.
3 ⊠ ⏲ **(Picture Off / Timer)**	Lights up in green when you select “Picture Off” (page 24). Lights up in orange when you set the timer (page 24) or “Picture Frame” (page 21).
4 ⏻ **(Standby)**	Lights up in red when the TV is in standby mode.
5 **I (Power)**	Lights up in green when the TV is on.

✍

• Make sure that the TV is completely turned off before unplugging the main lead/AC power cord. Unplugging the main lead/AC power cord while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

About the operation guide on the TV screen

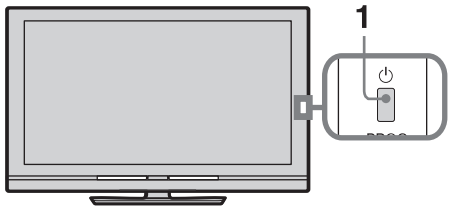


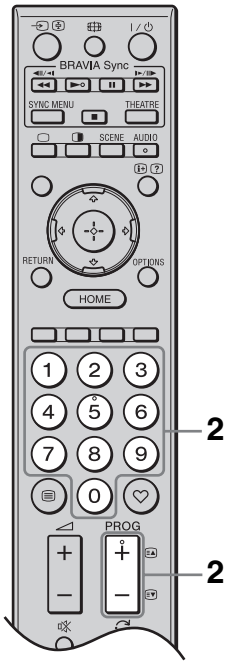
Operation Guide

Example: Press ⊕ or **RETURN** (see 4 on page 10 or 6 on page 11).

The operation guide provides help on how to operate the TV using the remote, and is displayed at the bottom of the screen. Use the remote buttons shown on the operation guide.

Watching TV





1 Press ⏻ on the TV to turn on the TV.

When the TV is in standby mode (the ⏻ (standby) indicator on the TV front panel is red), press **I**/⏻ on the remote to turn on the TV.

The available channels vary depending on the mode.

2 Press the number buttons or **PROG +/–** to select a TV channel.

To access Text

Press ☰. Each time you press ☰, the display changes cyclically as follows:

Text and TV picture ⟶ Text ⟶ No Text (exit the Text service)

To select a page, press the number buttons or ▲/▼.

To hold a page, press ⏸.

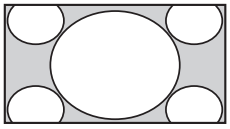
To reveal hidden information, press ?.

- You can also jump directly to a page by selecting the page number displayed on the screen. Press ⊕ and ⇧/⇩/⇦/⇨ to select the page number, then press ⊕.
- When four coloured items appear at the bottom of the Text page, you can access pages quickly and easily (Fastext). Press the corresponding coloured button to access the page.

To change the Wide Mode manually

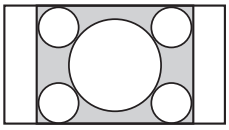
Press ⊞ repeatedly to select the desired Wide Mode.

Wide Zoom*



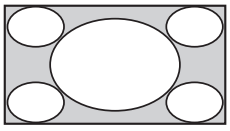
Enlarges the centre portion of the picture. The left and right edges of the picture are stretched to fill the 16:9 screen.

Normal



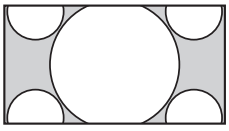
Displays the 4:3 picture in its original size. Side bars are shown to fill the 16:9 screen.

Full



Stretches the 4:3 picture horizontally, to fill the 16:9 screen.

Zoom*



Displays the cinemascopic (letter box format) picture in the correct proportion.

* Parts of the top and bottom of the picture may be cut off. You can adjust the vertical position of the picture. Press ⇧/⇩ to move the picture up or down (e.g. to read subtitles).

✍

- When you select “Wide Zoom”, some characters and/or letters at the top and the bottom of the picture may not be visible. In such a case, adjust “Vertical Size” in the “Screen” menu (page 28).

💡

- When “Auto Wide” (page 27) is set to “On”, the TV will automatically select the best mode to suit the input from an external equipment.
- If 720p, 1080i or 1080p source pictures are displayed with black borders on the screen edges, select “Wide Zoom” or “Zoom” to adjust the pictures.

Using the Favourite List

Favourites

Favourite List

The Favourite feature lets you select programmes from a list of up to 16 favourite channels that you specify.

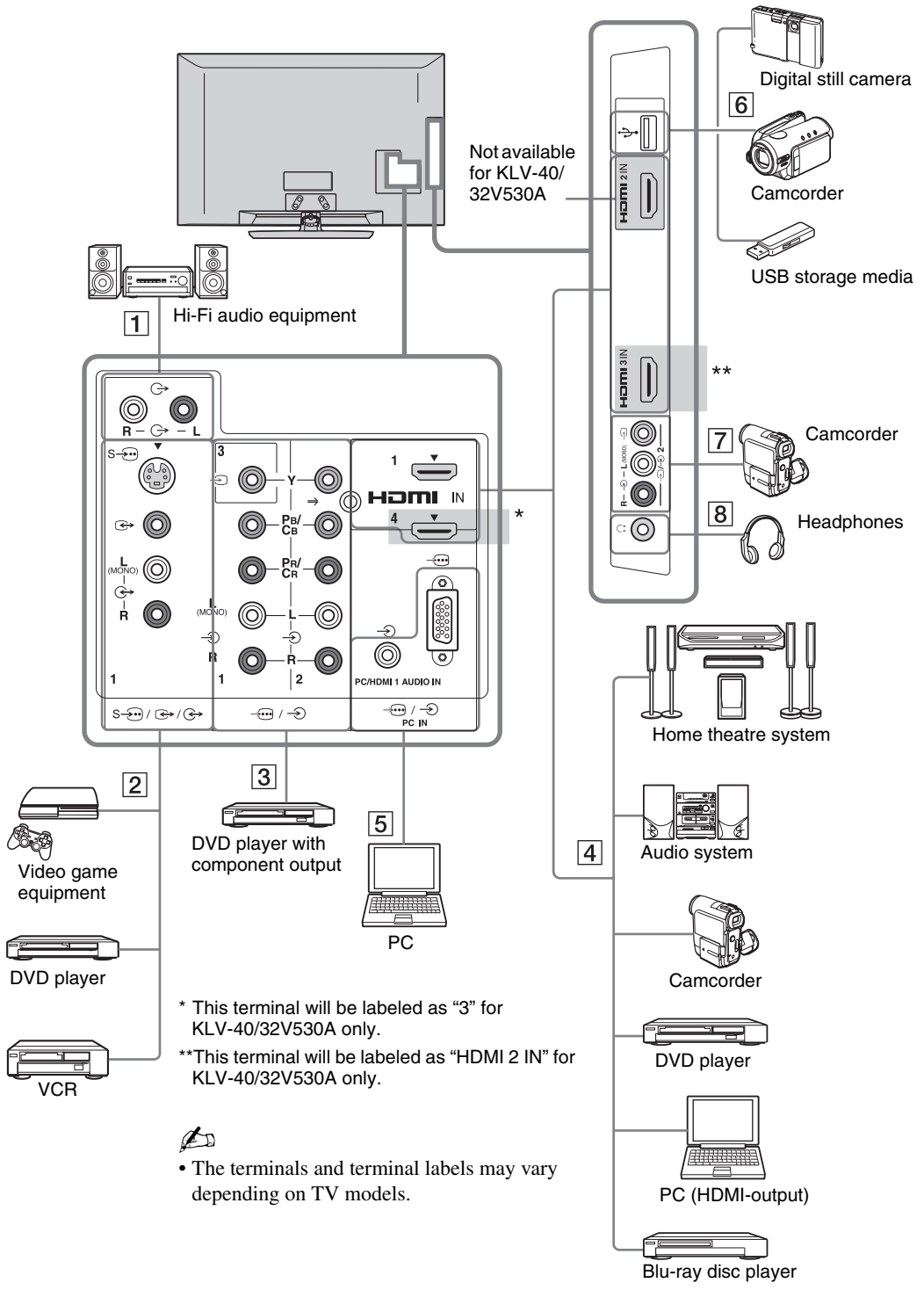
1 Press ♡.

2 Perform the desired operation as shown in the following table or displayed on the screen.

To	*Do this*
Watch a channel	Press ⊕.
Turn off the Favourite list	Press ♡.
Add a current channel to the Favourite list	Press ⇧/⇩ to select “Add to Favourites”, then press ⊕.
Remove a channel from the Favourite list	**1** Press ⇧/⇩ to select “Edit Favourites”, then press ⊕. The “Favourite Set-up” screen appears. **2** Press ⇧/⇩ to select the channel number, then press ⊕. **3** Press ⇧/⇩ to select “– – –”, then press ⊕.

Connecting Optional Equipment

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



* This terminal will be labeled as “3” for KLV-40/32V530A only.

**This terminal will be labeled as “HDMI 2 IN” for KLV-40/32V530A only.

• The terminals and terminal labels may vary depending on TV models.

Connecting audio-video equipment (quality order, high to low)

Connect to	Connect with	Description
4 **HDMI IN 1, 2, 3, or 4 (HDMI IN 4: KLV-52/46/40/ 32V550A only)**	**HDMI cable**	Digital video and audio signals are input from the connected equipment. In addition, when you connect the equipment that is compatible with control for HDMI, communication with the connected equipment is supported. See page 30 to set up this communication. If the equipment has a DVI socket/jack, connect the DVI socket/jack to the HDMI IN 1 socket/jack through a DVI - HDMI adaptor interface (not supplied), and connect the equipment's audio out socket/jack to the PC/HDMI 1 AUDIO IN socket/jack in the PC IN sockets/jacks. ✍ • 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).
3 **/1 or 2**	**Component video cable, audio cable**	When using the component video jack 1 as the video jack 3, select "Video 3" in the "Video 3/Component 1 Input" menu (page 30). ✍ • You cannot use the component video jack 1 and the video jack 3 at the same time.
2 7 S1, 1 or 2, and 1 or 2	**S-video cable or composite video cable, audio cable**	To avoid picture noise, do not connect the camcorder to the video jack 1 and the S video jack S1 at the same time. If you connect a 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 30).

Connecting audio/portable equipment

Connect to	Connect with	Description
1	**Audio cable**	You can listen to TV sound on the connected Hi-Fi audio equipment.
6 **USB**	**USB cable**	You can enjoy photo/music/video files stored in a Sony digital still camera, camcorder or USB storage device (page 21).

Connecting other equipment

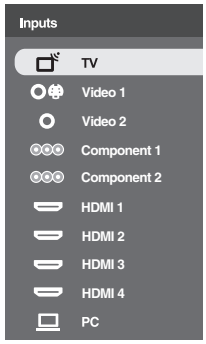
Connect to	Connect with	Description
5 **/PC IN**	**PC cable with ferrites, audio cable**	It is indispensable to use a PC cable with ferrite cores.
8 **Headphones**		You can listen to TV sound through headphones.

Viewing Pictures from Connected Equipment

Turn on the connected equipment, then perform the following operation.

1 Press ⊕.

2 Press ⇧/⇩ to select the desired input source, then press ⊕.



To view two pictures simultaneously – Twin Picture/PIP (Picture in Picture)

You can view two pictures (external or PC input and TV programme) on the screen simultaneously.
Each time you press ◑, the viewing mode changes cyclically from "Twin Picture", to "PIP", to single picture mode.

✍
- "PC Power Management" (page 24) is not available in PIP mode.

💡
- You can switch the audible picture by pressing ⇦/⇨.
- You can select the TV channel with the number buttons or **PROG +/–**.

For Twin Picture mode

1 Press ◑ (except HDMI (PC) or PC input).

The picture from the connected equipment is displayed on the left and the TV programme is displayed on the right.
The picture framed in gray is audible.

2 Press ⊕, RETURN or ◑ repeatedly to return to single picture mode.

For PIP mode

1 Press ◑ again.

The mode changes from "Twin Picture" to "PIP".

The picture from the connected PC or equipment is displayed in full size and the TV programme is displayed in the bottom right corner.
The sub screen picture is framed in gray when the main screen is audible.
You can use ⇧/⇩ to move the sub screen position.

2 Press ⊕, RETURN or ◑ repeatedly to return to single picture mode.

✍
- Because the video processing modes are different, the picture quality may differ between the main and sub screens. This is not a malfunction.

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 **HOME**.

3 Press ⇦/⇨ to select "Photo", "Music" or "Video".

4 Press ⇧/⇩ to select a USB device, then press ⊕.

The file or folder list appears.
To display a thumbnail list, press the yellow button while the list is displayed.

5 Press ⇧/⇩/⇦/⇨ to select a file or folder, then press ⊕.

When you select a folder, select a file, then press ⊕.
Playback starts.

Photo Playback Auto Start

The TV automatically starts photo playback 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 (page 29).

- 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.
- Playback does not start automatically if the TV is turned on after connecting the digital still camera or other device to the USB port.
- 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)
  – RAW (ARW/ARW 2.0 format files with the extension ".arw" for preview only)
- 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 (files with the extension ".mpg")
- Photo Playback Auto Start works only for photo files in the newest digital still camera folder (DCF-compliant, highest-numbered "DCIM" folder).
- Playback may not start automatically when some digital still cameras (such as cameras with internal memory) are connected.
- The file name and folder name support only English.
- 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.

You can register the background music to be played during a slideshow using (Photo). While playing back music, press **OPTIONS**, then select "Add to Slideshow", or while displaying a photograph, press **OPTIONS**, select "Playback options", then select "Slideshow Music".

To display a photograph — Picture Frame

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

1 Select a photograph.

See "Playing back Photo/Music/Video via USB".

2 Press **OPTIONS** while the selected photograph is displayed, select "File options", then press ⇧/⇩ to select "Picture Frame Image" and press ⊕.

3 Press **RETURN** repeatedly to return to the Home Menu.

4 Press ⇦/⇨ to select "Photo", then select "Picture Frame" and press ⊕.

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

To set the duration of displaying a photograph

Press **OPTIONS**, then select “Duration” and press ⊕. Then, select the duration, and press ⊕.

The duration appears on the screen.

To return to the XMB™

Press **RETURN**.

✍

- If the photograph 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 (🔇) of a connected audio system.
- You can operate the connected Sony equipment that has the BRAVIA Sync logo by the TV remote by pressing:
  - **►/■/II/◄◄/►►** to operate the connected equipment directly.
  - **SYNC MENU** to display the menu of the connected HDMI equipment on the screen.
    After displaying the menu, you can operate the menu screen by using ↑/↓/←/→, ⊕, colour buttons and **RETURN**.
  - **OPTIONS** to display “Device Control”, then select options from “Options” and “Content List” to operate the equipment.
  - 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 connect the equipment that is compatible with control for HDMI

Connect the compatible equipment and the TV with an HDMI cable. When connecting an audio system, be sure to also connect the audio output jacks ⊖ (refer 1 in page 18) to listen to the sound from the TV on audio system.

To make the control for HDMI settings

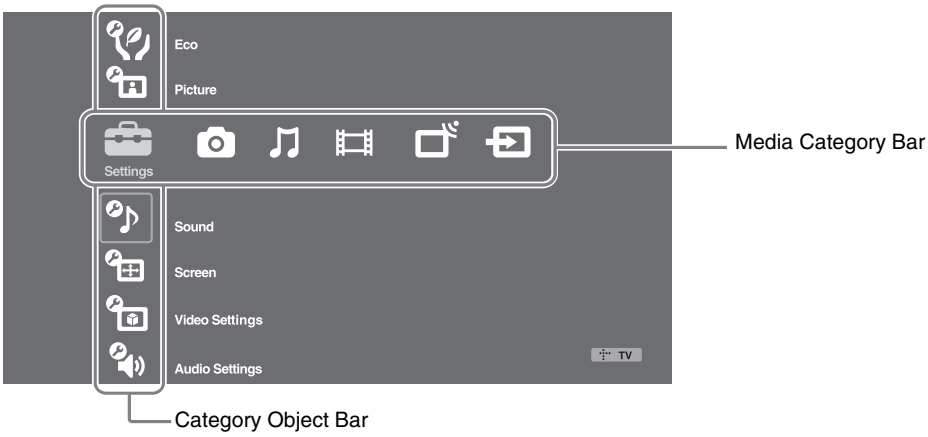
The control for HDMI settings must be set on both the TV side and connected equipment side. See “HDMI Set-up” (page 30) for the TV side settings. For settings on the connected equipment, refer to the operating instructions for that equipment.

Using Menu Functions

Navigating through TV Home Menu on XMB™

The XMB™ (XrossMediaBar) is a menu of BRAVIA features and input sources displayed on the TV screen. The XMB™ is an easy way to select programmes and adjust settings on your BRAVIA TV.

1 Press **HOME** to display the XMB™.



2 Press ⇦/⇨ to select the category.

Media category icon		Description
	Settings	You can make advanced settings and adjustments. For details about settings, see page 24.
	Photo	You can enjoy photo files via USB devices (page 21).
	Music	You can enjoy music files via USB devices (page 21).
	Video	You can enjoy video files via USB devices (page 21).
	TV	You can select a channel or Favourite list (page 17). You can also select a channel using the number buttons or **PROG +/–**.
	External Inputs	You can select equipment connected to the TV. To assign a label to an external input, see “Video Labels” (page 29).

3 Press ⇧/⇩ to select the item, then press ⊕.

4 Follow the instructions on the screen.

5 Press **HOME** to exit.

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

TV Settings Menu

System Update

Used to update the TV's system software in the future.

Clock/Timers

Sleep Timer	Sets the TV to automatically switch to standby mode after a certain amount of time. When "Sleep Timer" is activated, the ⏲ (Timer) indicator on the TV front panel lights up in orange. • When you turn off the TV and turn it on again, "Sleep Timer" is reset to "Off".
On Timer	Sets the TV to automatically turn on from standby mode.
Clock Set	Allows you to adjust the clock manually. • "Clock Set" will automatically reset when you turn off the AC power.

Eco

Reset	Resets all the "Eco" settings to the factory settings.
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.
Light Sensor	Automatically optimises the picture settings according to the ambient light in the room. • Do not put anything over the sensor, doing so may affect its function. See page 14 to check the position of the sensor.

Picture

Target Inputs	Allows you to select whether to use the common settings or to make custom settings for the input you are currently viewing.	
	Common	Applies common settings to all inputs in which "Target Inputs" is set to "Common".
	Name of current input (e.g. Video 1)	Allows you to make custom settings for the input.

Picture Mode	Sets a picture mode. The options that can be selected differ depending on the scene select settings.	
	Vivid	Enhances picture contrast and sharpness.
	Standard	For standard pictures. Recommended for home entertainment.
	Custom	Allows you to store your preferred settings.
	Cinema	For viewing film-based content. Most suitable when viewing the TV in a theatre-like environment.
	Photo-Vivid	For viewing photographs. Enhances picture contrast and sharpness.
	Photo-Standard	For viewing photographs. Provides the optimum picture quality for viewing in the home.
	Photo-Original	For viewing photographs. Represents the picture quality used when imaging developed photographs.
	Photo-Custom	For viewing photographs. Allows you to store your preferred settings.
	Sports	Provides the optimum picture quality for viewing sports.
	Game	Most suitable for when playing games on your TV.
	Graphics	Provides the optimum picture quality for viewing graphics.
Reset	Resets all the "Picture" settings to the factory settings excluding "Target Inputs", "Picture Mode" and "Advanced 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. ✍ • "Hue" can be adjusted only for the NTSC colour signal (e.g. U.S.A. video tapes).	
Colour Temperature	Adjusts the whiteness of the picture.	
	Cool	Gives white colours a blue tint.
	Neutral	Gives white colours a neutral tint.
	Warm 1/Warm 2	Gives white colours a red tint. "Warm 2" gives a redder tint than "Warm 1". 💡 • "Warm 1" and "Warm 2" are not available when "Picture Mode" is set to "Vivid" (or "Photo-Vivid").
Sharpness	Sharpens or softens the picture.	
Noise Reduction	Reduces the noise level of pictures (snowy pictures).	
MPEG Noise Reduction	Reduces picture noise in MPEG-compressed videos. This is effective when viewing a DVD.	
Cinema Drive	Provides improved picture movement when playing DVD or VCR images taken on film, reducing picture blur and graininess.	
	Auto 1	Provides smoother picture movement than the original film-based content. Use this setting for standard use.
	Auto 2	Provides the original film-based content as is.
	Off	Turns off the "Cinema Drive" feature. ✍ • If the image contains irregular signals or too much noise, "Cinema Drive" is automatically turned off even if "Auto 1" or "Auto 2" is selected.

(Continued)

Advanced Settings	Allows you to set “Picture” settings in more detail. These settings are not available when “Picture Mode” is set to “Vivid” (or “Photo-Vivid”).	
	Reset	Resets all the advanced settings to the factory settings.
	Black Corrector	Enhances black areas of the picture for stronger contrast.
	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.
	Gamma	Adjusts the balance between bright and dark areas of the picture.
	Auto Light Limiter	Reduces glare such as in scenes where the entire screen is white.
	Clear White	Emphasises white colours.
	Live Colour	Makes colours more vivid.
	White Balance	Adjusts the temperature of each colour.

Sound

Target Inputs	Allows you to select whether to use the common settings or to make custom settings for the input you are currently viewing.	
	Common	Applies common settings to all inputs in which “Target Inputs” is set to “Common”.
	Name of current input (e.g. Video 1)	Allows you to make custom settings for the input.
Sound Mode	Sets a sound mode. “Sound Mode” includes options best suited for video and photographs, respectively. The options that can be selected differ depending on the scene select settings.	
	Dynamic	Enhances the treble and bass sounds.
	Standard	For standard sounds. Recommended for home entertainment.
	Clear Voice	Makes voice sound clearer.
Reset	Resets all the “Sound” settings to the factory settings excluding “Target Inputs”, “Sound Mode” and “Dual Sound”.	
Treble	Adjusts higher-pitched sounds.	
Bass	Adjusts lower-pitched sounds.	
Balance	Emphasises the left or right speaker.	
Intelligent Volume	Keeps volume level constant across 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, when “Target Inputs” is set to the current input name (e.g. Video 1).	

Surround	Allows you to select the suitable surround effects depending on the genre of TV programme (movie, sport, music, etc.) or video game. The options that can be selected differ depending on the “Scene Select” settings.	
	S-FORCE Front Surround	Delivers surround effects that help you enjoy the virtual multi-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.
	Music	Delivers surround effects that make you feel like you are surrounded by sound as in a music hall.
	Sports	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.
Voice Zoom	Adjusts the sound level of human voices. For example, if the voice of a news announcer is indistinct, you can turn up this setting to make the voice louder. Conversely, if you are watching a sports programme, you can turn down this setting to soften the voice of the commentator.	
Sound Enhancer	Enhances high-frequency sounds. Reproducing the sound with much clearness by adjusting high-frequency bands.	
Sound Booster	Produces a fuller sound for more impact, by emphasizing the treble and bass sounds.	
Dual Sound	Sets the sound from the speaker for a stereo or bilingual broadcast.	
	Stereo/Mono	For stereo broadcasts.
	Main/Sub/Mono	For bilingual broadcasts, select “Main” for sound channel 1, “Sub” for sound channel 2, or “Mono” for mono channel, if available.
	✍ • For other equipment connected to the TV, set “Dual Sound” to “Stereo”, “Main”, or “Sub”.	

Screen (for inputs other than a PC)

Target Inputs	Allows you to select whether to use the common settings or to make custom settings for the input you are currently viewing.	
	Common	Applies common settings to all inputs in which “Target Inputs” is set to “Common”.
	Name of current input (e.g. Video 1)	Allows you to make custom settings for the input.
Wide Mode	See “To change the Wide Mode manually” (page 16).	
Auto Wide	Automatically changes “Wide Mode” to match input signals. If you want to use the setting that you specified in “Wide Mode”, select “Off”.	

4:3 Default	Sets the default Wide Mode for 4:3 broadcasts.	
	Wide Zoom	Enlarges the 4:3 picture to fill the 16:9 screen, keeping the original image as much as possible.
	Normal	Displays conventional 4:3 broadcasts in the correct proportion.
	Off	Uses the setting that you specified in “Wide Mode”.
Display Area	Adjusts the picture display area.	
	Auto	Automatically switches to the most appropriate display area.
	Full Pixel	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.
	+1	Displays pictures in their original size.
	Normal	Displays pictures in their recommended size.
	-1/-2	Enlarges the picture so that the edges are outside the visible display area.
Horizontal Shift	Adjusts the horizontal position of the picture.	
Vertical Shift	Adjusts the vertical position of the picture when “Wide Mode” is set to “Wide Zoom” or “Zoom”.	
Vertical Size	Adjusts the vertical size of the picture when “Wide Mode” is set to “Wide Zoom”.	

Screen (for PC input)

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”.	
Reset	Resets all PC screen settings to factory settings.	
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.	
Wide Mode	Sets “Wide Mode” for displaying pictures from your PC.	
	Normal	Displays the picture in its original size.
	Full 1	Enlarges the picture to fill the vertical display area, while maintaining its original proportion.
	Full 2	Enlarges the picture to fill the display area.

Video Settings

Colour System	Sets the colour system (“Auto”, “PAL”, “SECAM”, “NTSC3.58” or “NTSC4.43”) according to the input signal from the input source.

Audio Settings

Speaker	**TV Speaker**	Turns on and outputs the TV's sound from the TV speakers.
	Audio System	Turns off the TV speakers and outputs the TV's sound from external audio equipment connected to the audio output sockets/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	**Variable**	When using an external audio system, volume output from audio out can be controlled using the TV's remote.
	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.
Headphone Settings	**Speaker Link**	Switches the TV's internal speakers on/off when you connect headphones to the TV.
	Volume	Adjusts the volume of the headphones when "Speaker Link" is set to "Off".
	Dual Sound	Sets the sound from the headphones for a bilingual broadcast.

Set-up

USB Auto Start

Automatically starts photo playback 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.

• Playback does not start automatically if the TV is turned on after connecting the digital still camera or other device to the USB port.

Quick Start

The TV turns on faster than usual by turning on the power using the remote. However, power consumption in standby mode is approximately 16 watts higher than usual. Up to 3 out of 5 time zones can be set.

Video Labels

Assigns an icon or name to the external inputs. The icon and name appears briefly on the screen when the particular input is being selected.

1 Press ⇧/⇩ to select the desired input source, then press ⊕.

Skip Inputs — For each input, sets whether or not to display on the Home Menu or in a list of inputs that will appear when you press ⏎.

Auto
Displays the icon and name only when the equipment is connected.

Always Display
Always displays the icon and name regardless of whether or not the equipment is connected.

Skip
Does not display the icon and name even if the equipment is connected.

2 Press ⇨ to assign an icon and name.

Label Inputs — Uses preset labels to assign a name to connected equipment. Allows you to create your own label when you select "Edit".

Edit
Allows you to edit the name in the edit screen and choose the appropriate icon.

Video 1 Input/Output	Switches the video jack 1 and audio jack 1 between input and output modes. When set to "Output", outputs whatever is being viewed on the screen (except signals from the /1 or 2, HDMI IN1, 2, 3, or 4 (HDMI IN 4: KLV-52/46/40/32V550A only), and /PC IN sockets/jacks).
Auto S Video	Sets the input signal from S video socket/jack S Video 1 when you have equipment connected to the S Video 1 and 1 Video 1 sockets/jacks.
Video 3/Component 1 Input	Switches between the component video jack 1 and the video jack 3. ✍ You cannot use the component video jack 1 and the video jack 3 at the same time.
HDMI Set-up	Allows the TV to communicate with equipment that is compatible with the control for HDMI function, and connected to the HDMI sockets/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.
	✍ • You cannot use "Control for HDMI" if the TV operations are linked to the operations of an audio system that is compatible with control for HDMI.
Auto Start-up	You can run the initial set-up that appeared when you first connected the TV, and select the language, or tune in all available channels again. Even if you have made the settings when you first connected the TV, you may need to change the settings after moving house, or to search for newly launched channels.
Language	Sets the language displayed on the menu screens.
Product Information	Displays product information of the TV.
Factory Settings	Resets all settings to factory settings except for the "Programme Block" setting, "Favourites" setting, and programme preset data. After completing this process, the initial set-up screen is displayed. Completing auto tuning in initial set-up will reset the settings that are not reset by "Factory Settings". To retain the settings, skip the "Auto Tuning".

Channel Set-up

1 Digit Direct	When "1 Digit Direct" is set to "On", you can select a channel using one preset number button (0 – 9) on the remote. ✍ • When "1 Digit Direct" is set to "On", you cannot select channel numbers 10 and above by entering two digits on the remote.

Favourite Set-up

Allows you to set your favourite channels by assigning the desired channel numbers.
To reset the favourite channels, select "– – –".

Auto Tuning

Tunes in all the available channels.
You can retune the TV after moving house, or to search for newly launched channels.

Programme Sorting

Changes the order of channels stored in the TV.

1 Press ⇧/⇩ to select the channel you want to move to a new position, then press ⊕.

2 Press ⇧/⇩ to select the new position for the channel, then press ⊕.

Programme Labels

Assigns a channel name of your choice, up to five letters or numbers. The name appears briefly on the screen when you select the channel. Names for channels are usually taken automatically from Text (if available).

1 Press ⇧/⇩ to select the channel you want to name, then press ⊕.

2 Press ⇧/⇩ to select the desired letter or number ("_" for a blank space), then press ⇨.

If you enter a wrong character

Press ⇦/⇨ to select the wrong character. Then, press ⇧/⇩ to select the correct character.

3 Repeat step 2 until you finish entering the name.

4 Press ⊕ to exit the labeling procedure.

Programme Block

Blocks an individual channel from being watched.

1 Press ⇧/⇩ to select the channel you want to block, then press ⊕.

2 Press ⇧/⇩ to select "Block", then press ⊕.
To watch the channel, select "Allow".

Intelligent Picture

On with Indicator	Automatically reduces the picture noise. The signal level bar is displayed when the channel is changed or the display is changed from an input screen to a TV programme.
On	Automatically reduces the picture noise.
Off	Turns off the "Intelligent Picture" feature.

Manual Programme Preset

To preset a channel, press **PROG +/–** to select the programme number, before selecting "Label", "AFT", "Audio Filter", "Skip", "Signal Booster" or "Colour System". You cannot select a programme number that is set to "Skip" (page 32).

Programme/ TV System/ Frequency

Presets programme channels manually.

1 Press ⇧/⇩ to select "Programme", then press ⊕.

2 Press ⇧/⇩ to select the programme number you want to manually tune (if tuning a VCR, select programme 0), then press ⊕.

3 Press ⇧/⇩ to select "TV System", then press ⊕.

4 Press ⇧/⇩ to select the best received TV broadcast systems, then press ⊕.

5 Press ⇧/⇩ to select "Frequency", then press ⊕.

6 Press ⇦/⇨ to search for the next available channel. The frequency band ("VHF Low", "VHF High" or "UHF") is changed accordingly.

Label

Assigns a name of your choice to the selected channel. This name appears briefly on the screen when you select the channel.
To input characters, follow steps 2 to 4 in "Programme Labels" (page 31).

AFT	Allows you to fine-tune the selected channel manually if you feel that a slight tuning adjustment may improve picture quality. When “On” is selected, fine tuning adjustments are made automatically.
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 “Low” or “High” is selected.
Skip	Skips unused channels when you press **PROG +/–** to select channels. To select channels you have programmed to skip, use the corresponding number buttons.
Signal Booster	Improves the picture quality if the TV signal is too strong or weak. Press ⇧/⇩ 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 ⊕.
Colour System	Selects the colour system (“Auto”, “PAL”, “SECAM”, “NTSC3.58” or “NTSC4.43”) according to the channel.
Signal Level	Displays the signal level for programme currently being watched.

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:

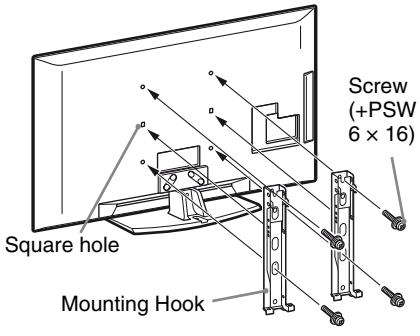
Provide full attention to safety during the installation, periodic maintenance and examination of this product.

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

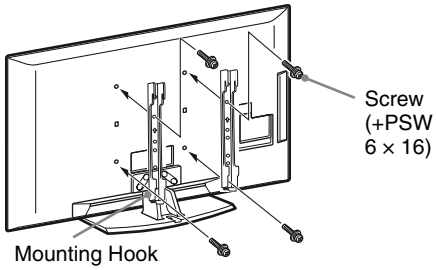
- Refer to the Instructions supplied with the Wall-Mount Bracket to properly carry out the installation.
- Refer to “Detaching the Table-Top Stand from the TV” (page 7).
- Refer to “TV installation dimensions table” (page 34).
- Refer to “Screw and Hook Locations diagram/table” (page 35).

• Place the TV on the Table-Top Stand, when securing the Mounting Hook.

SU-WL500:



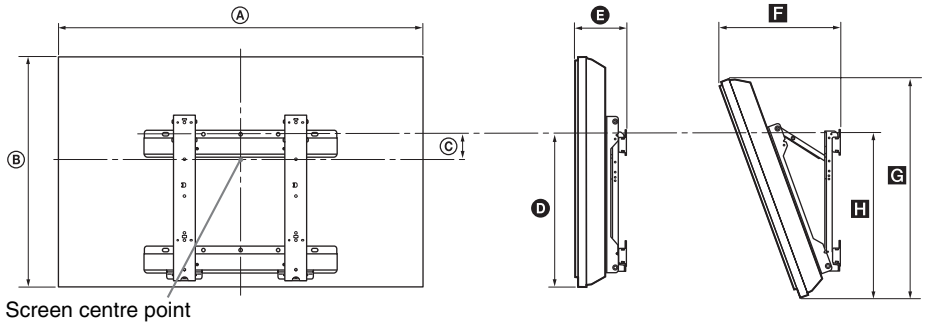
SU-WL50B:



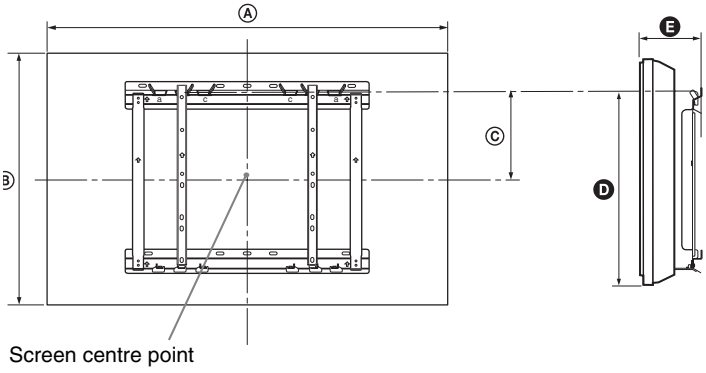
Sufficient expertise is required for installing this product, especially to determine the strength of the wall for withstanding the TV’s weight. Be sure to entrust the attachment of this product to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation.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

TV installation dimensions table

SU-WL500:



SU-WL50B:



Unit: mm

Model Name	Display dimensions		Screen centre dimension		Length for each mounting angle						
					Angle (0°)				Angle (20°)		
	Ⓐ	Ⓑ	Ⓒ		Ⓓ		Ⓔ		Ⓕ	Ⓖ	Ⓗ
			SU-WL500	SU-WL50B	SU-WL500	SU-WL50B	SU-WL500	SU-WL50B	SU-WL500 only		
KLV-52V550A	1262	822	39	92	478	531	169	170	407	778	515
KLV-46V550A	1123	723	84	137	471	524	150	150	358	685	502
KLV-40V550A/ KLV-40V530A	987	636	122	175	463	515	147	147	328	604	493
KLV-32V550A/ KLV-32V530A	798	536	172	200	463	490	143	144	291	511	492

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” (page 36) for its weight.

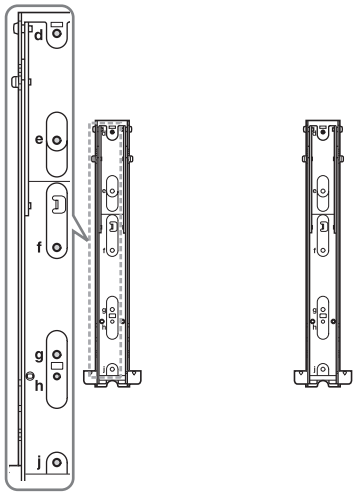
Screw and Hook Locations diagram/table

Model Name	Screw location		Hook location	
	SU-WL500	SU-WL50B	SU-WL500	SU-WL50B
KLV-52V550A/KLV-46V550A/KLV-40V550A/ KLV-40V530A	d, g	d, i	b	
KLV-32V550A/KLV-32V530A	e, g	e, h	c	

SU-WL500:

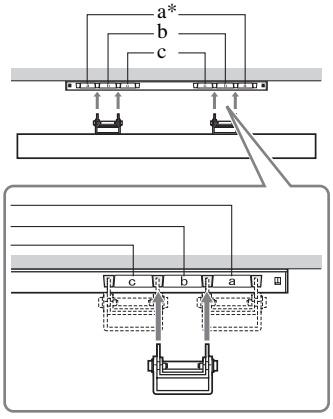
Screw location

When installing the Mounting Hook on the TV.



Hook location

When installing the TV onto the Base Bracket.

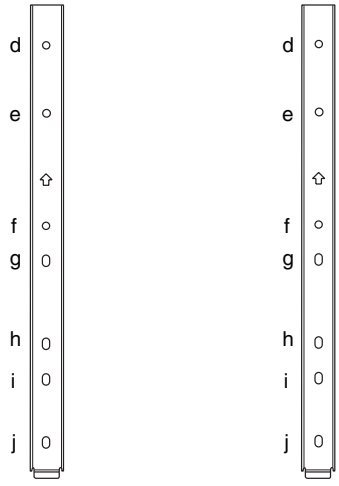


* Hook location “a” cannot be used for the models in the table above.

SU-WL50B:

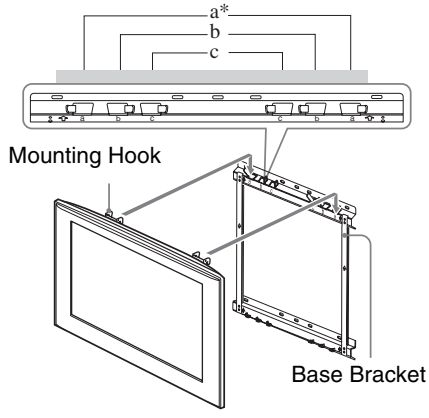
Screw location

When installing the Mounting Hook on the TV.



Hook location

When installing the TV onto the Base Bracket.



* Hook location “a” cannot be used for the models in the table above.

Specifications

Model name		KLV-32V550A KLV-32V530A	KLV-40V550A KLV-40V530A	KLV-46V550A	KLV-52V550A
System					
Panel system		LCD (Liquid Crystal Display) Panel			
TV system		B/G, I, D/K, M			
Colour/video system		PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.43 (only video input)			
Channel coverage		B/G: VHF: E2 to E12 / UHF: E21 to E69 /CATV: S01 to S03, S1 to S41 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		10 W + 10 W			
Input/Output jacks					
Antenna cable		75 ohm external terminal for VHF/UHF			
S 1		S video input (4-pin mini DIN)			
1		Video input (phono jacks)/Monitor out			
1		Audio input (phono jacks)/Monitor out			
2		Video input (phono jack)			
2		Audio input (phono jacks)			
COMPONENT IN1 / 3		COMPONENT IN1 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)			
COMPONENT IN2		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			
COMPONENT IN1, 2		Audio input (phono jacks)			
HDMI IN1, 2, 3, 4 (HDMI IN 4: KLV-52/46/40/32V550A only)		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 IN1 only) PC Input (see page 37)			
		Audio output (phono jacks)			
PC IN		PC Input (D-sub 15-pin) (see page 37) 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 audio input (minijack)			
		USB port			
		Headphones jack			
Power and others					
Power requirements		110 V – 240 V AC, 50/60 Hz 220 V – 240 V AC, 50/60 Hz (Tunisia only)			
Screen size (measured diagonally)		32 inches (Approx. 80.0 cm)	40 inches (Approx. 101.6 cm)	46 inches (Approx. 116.8 cm)	52 inches (Approx. 132.2 cm)
Display resolution		1,920 dots (horizontal) × 1,080 lines (vertical)			
Power consumption		Indicated on the rear of the TV.			
Dimensions (Approx.) (w × h × d)	with Table-Top Stand	798 mm × 584 mm × 259 mm	987 mm × 684 mm × 303 mm	1,123 mm × 771 mm × 330 mm	1,262 mm × 869 mm × 358 mm
	without Table-Top Stand	798 mm × 536 mm × 89 mm	987 mm × 636 mm × 93 mm	1,123 mm × 723 mm × 96 mm	1,262 mm × 822 mm × 115 mm
Mass (Approx.)	with Table-Top Stand	13.9 kg	19.4 kg	25.7 kg	33.9 kg
	without Table-Top Stand	11.8 kg	16.7 kg	22.4 kg	29.8 kg
Supplied accessories		See “To check the accessories” (page 4).			
Optional accessories	Wall-Mount Bracket	SU-WL500/SU-WL50B			

Design and specifications are subject to change without notice.

PC input signal reference chart for PC and HDMI IN 1, 2, 3, 4 (HDMI IN 4: KLV-52/46/40/32V550A only)

Resolution				*Horizontal frequency (kHz)*	*Vertical frequency (Hz)*	*Standard*
Signals	*Horizontal (Pixel)*	×	*Vertical (Line)*			
VGA	**640**	×	**480**	**31.5**	**60**	**VESA**
	640	×	480	37.5	75	VESA
	720	×	400	31.5	70	VESA
SVGA	**800**	×	**600**	**37.9**	**60**	**VESA**
	800	×	600	46.9	75	VESA
XGA	**1024**	×	**768**	**48.4**	**60**	**VESA**
	1024	×	768	56.5	70	VESA
	1024	×	768	60.0	75	VESA
WXGA	**1280**	×	**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 “Video Settings” menu and “Screen” menu settings.
To view PC contents, set “Wide Mode” to “Full” and “Display Area” to “Full Pixel”.

- This TV’s PC input does not support Sync on Green or Composite Sync.
- This TV’s PC input does not support interlaced signals.
- For the best picture quality, it is recommended to use the signals in the above chart with a 60 Hz vertical frequency (boldfaced).

Troubleshooting

Check whether the ⏻ (standby) indicator is flashing in red.

When the ⏻ (standby) indicator is flashing

The self-diagnosis function is activated.

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

For example, the indicator may flash three times, go off for two seconds, then flash again three times.

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

When the ⏻ (standby) indicator is not flashing

1 Check the items in the tables below.

2 If the problem persists, have your TV serviced by qualified service personnel.

Condition	Explanation/Solution
Picture	
There is no picture (screen is dark) and no sound.	• Check the antenna/cable connection. • Connect the TV to the mains/AC power, and press ⏻ on the TV. • If the ⏻ (standby) indicator lights up in red, press I/⏻.
No picture or menu information from equipment connected to the video input jack appears on the screen.	• Press ⏎ to display the list of inputs, then select the desired input. • Check the connection between the optional equipment and the TV.
Ghosting occurs, or double images appear.	• Check the antenna/cable connection. • Check the antenna location and 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 for normal use, one to two years when used at the seaside).
The picture is distorted (dotted lines or stripes appear).	• 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 TV cable away from other connecting cables.
There is picture or sound noise when viewing a TV channel.	• Adjust “AFT” (Automatic Fine Tuning) to obtain better picture reception (page 32).
Tiny black points and/or bright points appear on the screen.	• The screen is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.
The picture contours are distorted.	• Change the current setting of “Cinema Drive” to other settings (page 25).
The picture is not displayed in colour.	• Select “Reset” (page 25).
The picture from equipment connected to the ⇦1 or 2 sockets/jacks is not displayed in colour, or is displayed in irregular colours.	• Check the connection of the ⇦1 or 2 sockets/jacks and check if the sockets/jacks are firmly seated in their respective sockets/jacks.

Condition	Explanation/Solution
No picture from the connected equipment appears on the screen.	• Turn the connected equipment on. • Check the cable connection. • Press ⏎ to display the list of inputs, 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.
You cannot select the connected equipment on the Home Menu or you cannot switch the input.	• Check the cable connection.
Sound	
The picture is good, but there is no sound.	• Press +/– or 🔇 (Mute). • Check if the “Speaker” is set to “TV Speaker” (page 29).
No sound or noisy sound	• Check if the TV system setting is appropriate (page 31).
Channels	
Some channels are blank.	• The channel is for scrambled/subscription service only. Subscribe to a pay TV service. • The 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 24). • Check if the “Idle TV Standby” is activated (page 24).
The TV turns on automatically.	• Check if the “On Timer” is activated (page 24).
Some input sources cannot be selected.	• Select “Video Labels” and cancel the “Skip” setting for the input source (page 29).
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.
You 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. If you want to change the audio output to the TV speaker, select “TV Speaker” in the “Speaker” menu (page 29).
Not all channels are tuned for cable.	• Check the support website for cable provide information. http://www.sony-asia.com/bravia/flash.html

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.

Customer support

http://www.sony-asia.com/support

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

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http://www.sony.net/

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