

MODIFICATION HISTORY

MODEL NAME : KDL-40/46/55XBR45, 40/46/55X4500

SERVICE MANUAL

PARTS No. : 9-888-221-03

* Blue characters are linking.

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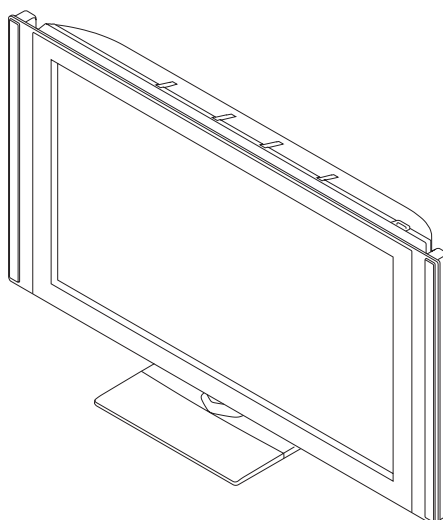
SERVICE MANUAL

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<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>
KDL-40XBR45	RMF-GD001	Australian	KDL-40X4500	RMF-GD001	Singapore
KDL-46XBR45	RMF-GD001	Australian	KDL-46X4500	RMF-GD001	Singapore
KDL-55XBR45	RMF-GD001	Australian	KDL-55X4500	RMF-GD001	Singapore
KDL-40X4500	RMF-GD001	New Zealand			
KDL-46X4500	RMF-GD001	New Zealand			
KDL-55X4500	RMF-GD001	New Zealand			



RMF-GD001



KDL-40XBR45/46XBR45/55XBR45
KDL-40X4500/46X4500/55X4500

LCD Digital Colour TV
SONY®

SPECIFICATIONS

Model name				
Australian model		KDL-40XBR45	KDL-46XBR45	KDL-55XBR45
New Zealand/Singapore model		KDL-40X4500	KDL-46X4500	KDL-55X4500
System				
Panel system		LCD (Liquid Crystal Display) Panel		
TV system		Analogue: B/G, I, D/K Digital: DVB-T		
Colour/video system		Analogue: PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.43 (only video input) Digital: MPEG-2 MP@ML/HL (Australian model), MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC MP/HP@L4 (New Zealand/Singapore model)		
Channel coverage		Analogue: B/G:VHF: E2 to E12 / UHF: E21 to E69 /CATV: S01 to S03, S1 to S41 VHF: 0 to 12, 5A, 9A / UHF: 28 to 69 /CATV: S01 to S03, S1 to S44 (Australia only) VHF: 1 to 11 / UHF: 21 to 69 /CATV: S01 to S03, S1 to S41 (New Zealand only) I: UHF: B21 to B69 / CATV: S01 to S03, S1 to S41 D/K: VHF: C1 to C12, R1 to R12 /UHF: C13 to C57, R21 to R60 (Australian/New Zealand only) VHF: R1 to R12 /UHF: R21 to R69 (Singapore only) CATV: S01 to S03, S1 to S41, Z1 to Z39 (Australian/New Zealand only) CATV: S01 to S03, S1 to S41 (Singapore only) Digital: VHF/UHF (Australian/ Singapore models), UHF (New Zealand model)		
Sound output		10 W + 10 W, 12 W + 12 W (Woofer)		
Input/Output jacks				
Antenna		75 ohm external terminal for VHF/UHF		
 1		S video input (4-pin mini DIN)		
 1, 2, 3		Video input (phono jacks)		
 1, 2		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		
 1, 2, 3		Audio input (phono jacks)		
HDMI IN1, 2, 3, 4		Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM: 32, 44.1 and 48 kHz, 16, 20 and 24 bits Analogue audio input (minijack) (HDMI IN 1 only)  PC Input		
 DIGITAL AUDIO OUT (OPTICAL)		Digital optical jack		
		Video output (phono jack)		
		Audio output (phono jacks)		
 PC IN (RGB)		PC Input (D-sub 15-pin) 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)		
DMPORT		DIGITAL MEDIA PORT		
		USB port		
		Headphones jack		
 LAN		10BASE-T/100BASE-TX connector (Depending on the operating environment of the network, connection speed may differ. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV.)		
Power and others				
Power requirements		220 V – 240 V AC, 50 Hz		
Screen size (measured diagonally)		40 inches (Approx. 101.6 cm)	46 inches (Approx. 116.8 cm)	55 inches (Approx. 138.8 cm)
Display resolution		1,920 dots (horizontal)	1,080 lines (vertical)	
Power consumption	in “Home”/“Standard” mode	210 W	270 W	370 W
	in “Shop”/“Vivid” mode	230 W	350 W	480 W
Standby power consumption*		0.3 W (19 W when “Quick Start” is set to “On”)	0.6 W (20 W when “Quick Start” is set to “On”)	0.7 W (22 W when “Quick Start” is set to “On”)

Model name				
Australian model		KDL-40XBR45	KDL-46XBR45	KDL-55XBR45
New Zealand/Singapore model		KDL-40X4500	KDL-46X4500	KDL-55X4500
Dimensions (Approx.) (w h d)	with Table-Top Stand	1,128 655 279 mm	1,259 737 315 mm	1,486 855 356 mm
	without Table-Top Stand	1,128 603 125 mm	1,259 685 144 mm	1,486 803 147 mm
Mass (Approx.)	with Table-Top Stand	27.0 kg	38.0 kg	54.0 kg
	without Table-Top Stand	23.5 kg	33.0 kg	47.5 kg
Optional accessories	Wall-Mount Bracket	SU-WL500/WL50B		
	Colour Variation Unit	CRU-40SG11	CRU-46SG11	CRU-55SG11

* Specified standby power is reached after the TV finishes necessary internal processes.

Design and specifications are subject to change without notice.

PC input signal reference chart for PC and HDMI IN 1, 2, 3, 4

Resolution					
Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
	640	480	37.5	75	VESA
	720	400	31.5	70	VGA-T
SVGA	800	600	37.9	60	VESA Guidelines
	800	600	46.9	75	VESA
XGA	1024	768	48.4	60	VESA Guidelines
	1024	768	56.5	70	VESA
	1024	768	60.0	75	VESA
WXGA	1280	768	47.4	60	VESA
	1280	768	47.8	60	VESA
	1280	768	60.3	75	
	1360	768	47.7	60	VESA
SXGA	1280	1024	64.0	60	VESA
HDTV	1920	1080	67.5	60	CEA-861*

* 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 “Game/Text Mode” to “On”, “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).

WARNINGS AND CAUTIONS

CAUTION

These servicing instructions are for use by qualified service personnel only.

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis.

The chassis of this receiver is directly connected to the ac power line.



SAFETY-RELATED COMPONENT WARNING!!

Replace all components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony.

SAFETY-RELATED COMPONENT WARNING

It is essential that all critical parts be replaced only with the part number specified in the electrical parts list to prevent electric shock, fire, or other hazard.

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

USE CAUTION WHEN HANDLING THE LCD PANEL

When repairing the LCD panel, be sure you are grounded by using a wrist band.

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

- 1) Do not press on 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 temperatures 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 a short circuit within the module.
- 6) Disconnect the AC power 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.
- 9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.
2. A battery-operated AC milliammeter. 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 0.75 V, 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 A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

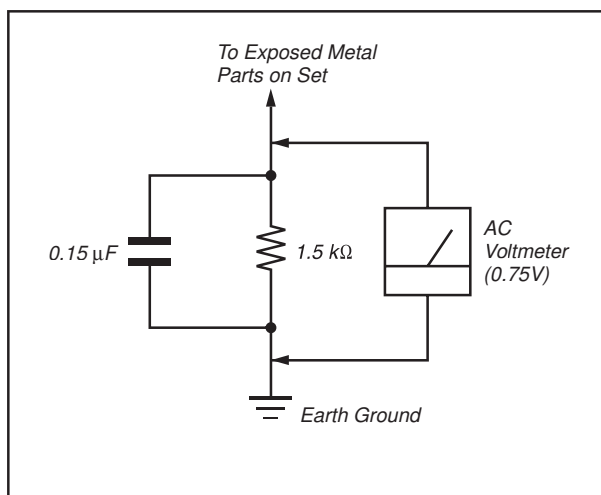


Figure A. Using an AC voltmeter to check AC leakage.

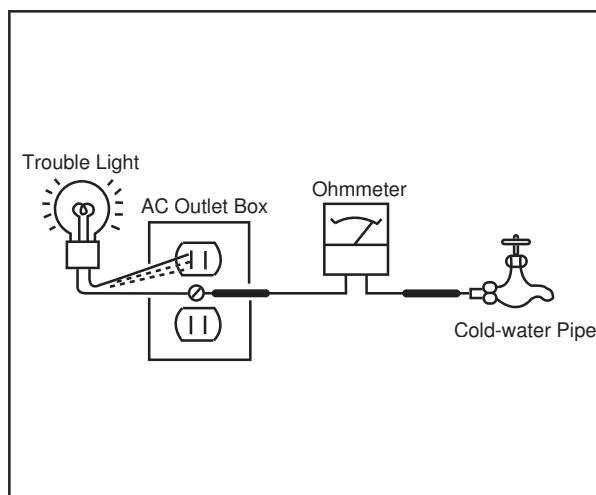


Figure B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem.

A definition of the STANDBY LED flash indicators is listed in the instruction manual for the user's knowledge and reference.

If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

DIAGNOSTIC TEST INDICATORS

When an error occurs, the STANDBY LED will flash a set number of times to indicate the possible cause of the problem.

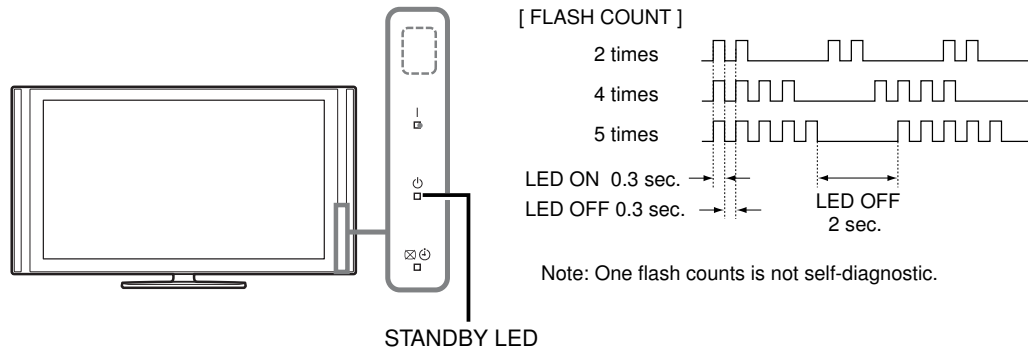
If there is more than one error, the LED will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen.

If the screen displays a "0", no error has occurred .

Number of times STANDBY LED (Red) flashes	Monitoring Items (Screen Display)	Detection
2 times	POW_ERR1	AAS Board IC2104 79pin: i_lb_err (AD port) < PW_ERR_LEV (Threshold Value) and 138pin: i_ac_off_det: HIGH
5 times	T_CON	FBA Board IC5501 ①128Pin: TCON_RDY: Low or ②Detected Error of Cayenne Register
6 times	BACKLITE	FBA Board IC5501 78Pin: INV_FAIL: LOW
7 times	PANLTEMP	FBA Board IC5501 IIC_ch2 setting value (BEM data)
8 times	AUD_PROT	AAS Board IC2104 19pin: i_au_prot: Low
9 times	FAN_ERR	FBA Board IC5501 pin154: FAN_ERR: High
13 times	BALANCER	FBA Board IC5501 ①163pin: BALANCER_ERR: LOW or ②SPI_ERR_CNT (SetSREG) >= SPI_ERR_LIM (FactSREG)

DISPLAY OF STANDBY LIGHT FLASH COUNT



STOPPING THE STANDBY FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY LED for flashing.

SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

[To Bring Up Screen Test]

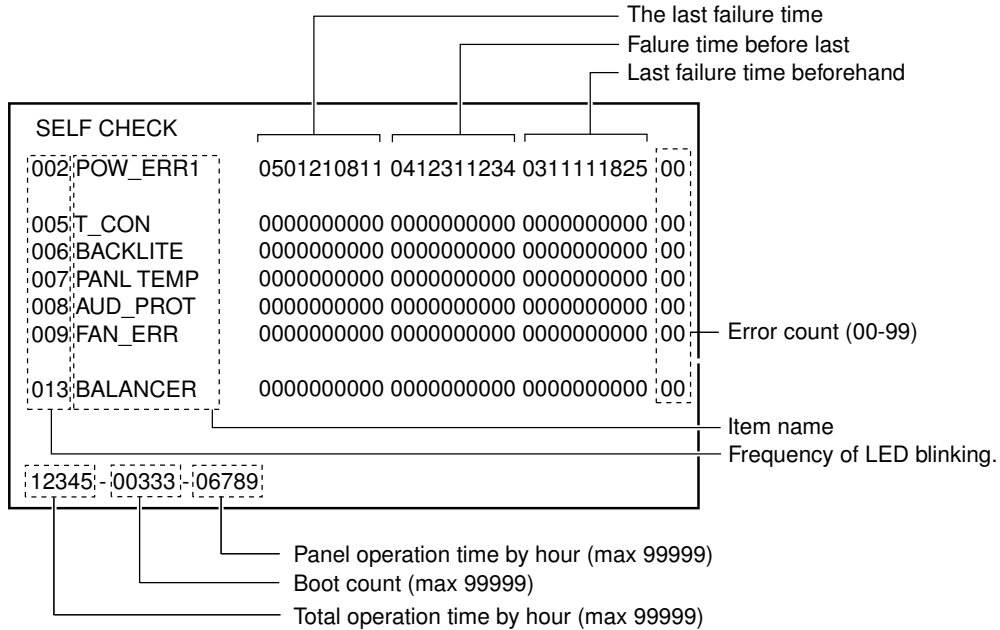
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



(Info/Text reveal) (Number button) * (Volume) (TV standby)

* : Note that this differs from entering the service mode (volume +)

[SELF-DIAGNOSTIC SCREEN DISPLAY]



Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen After you have completed the repairs, clear the result display to “0”.

Clearing the result display

To clear the result display to “0”, press button on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

<Delection of Error Count and Error History>

Press “⑧” button ➡ Press “⑩” button

<Delection of Panel Operation Time>

Press “⑦” button ➡ Press “⑩” button

Quitting Self-diagnostic screen

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

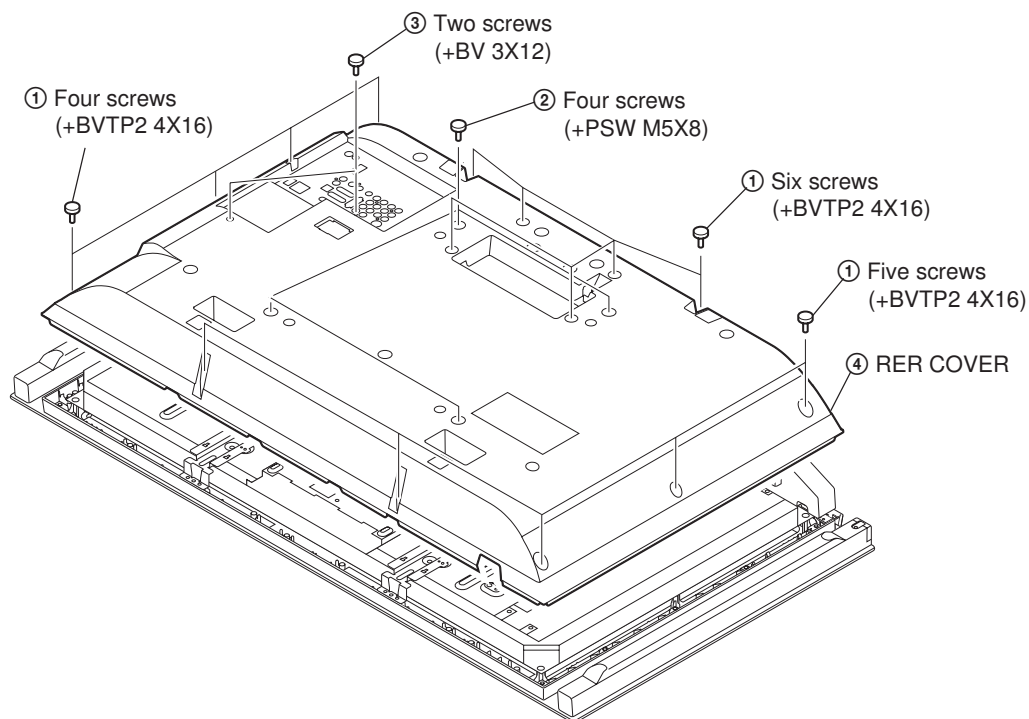
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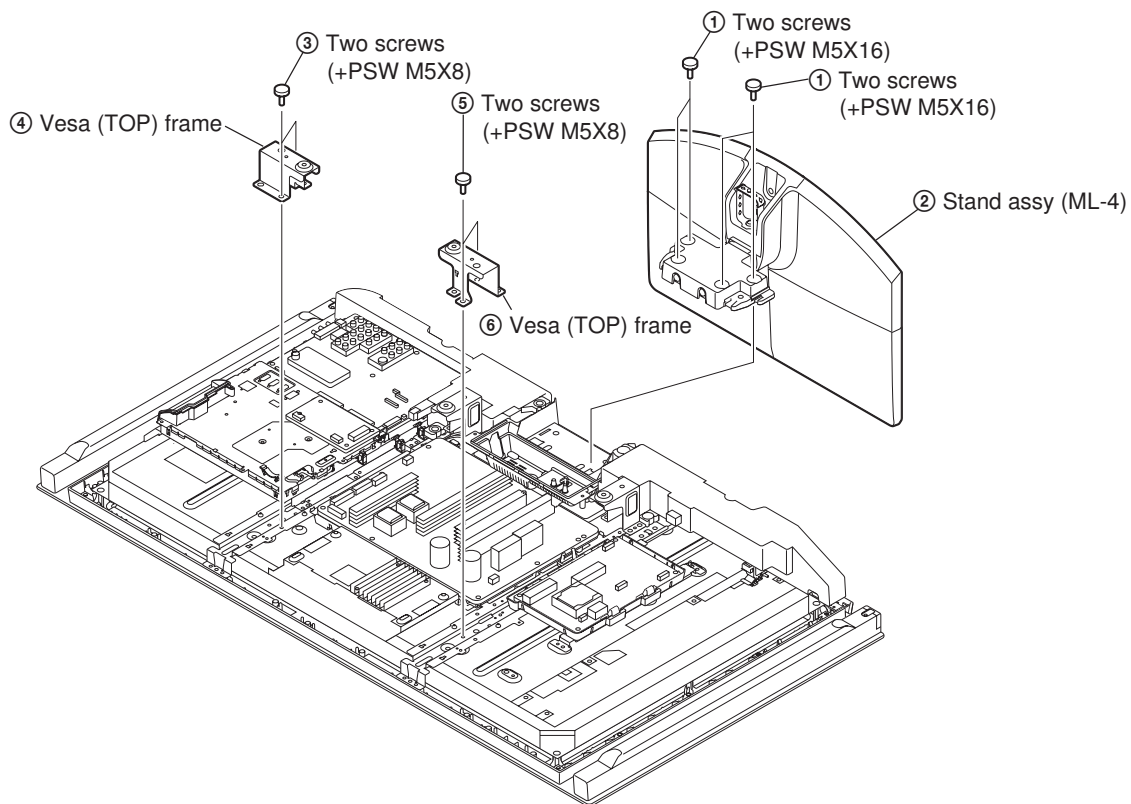
SECTION 1 DISASSEMBLY

1-1. KDL-40XBR45/40X4500

1-1-1. REAR COVER REMOVAL

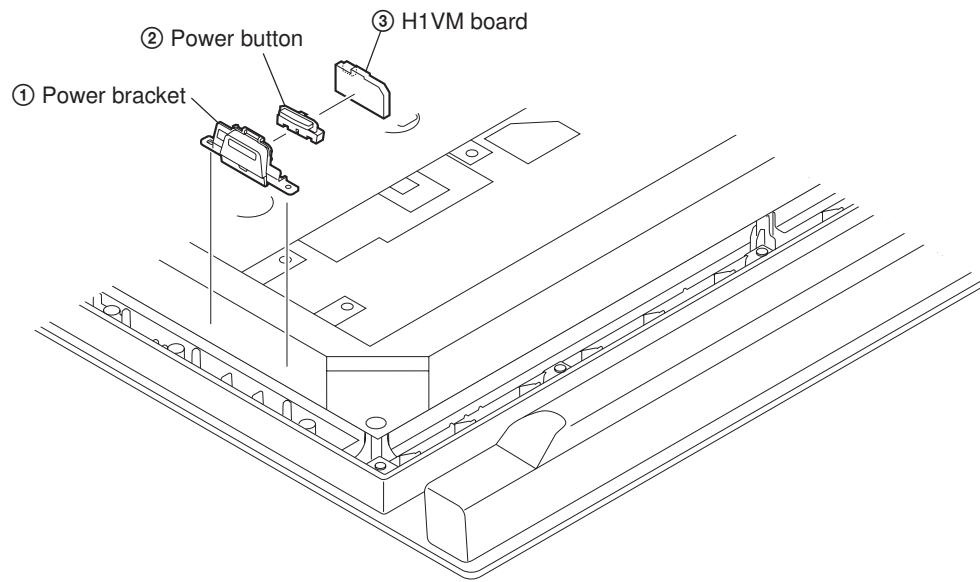


1-1-2. STAND ASSY REMOVAL

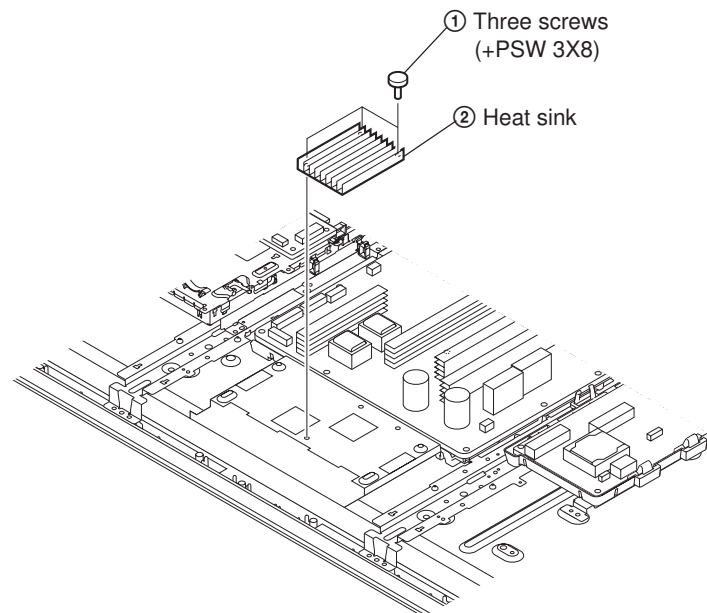


KDL-40XBR45/40X4500

1-1-3. H1VM BOARD REMOVAL

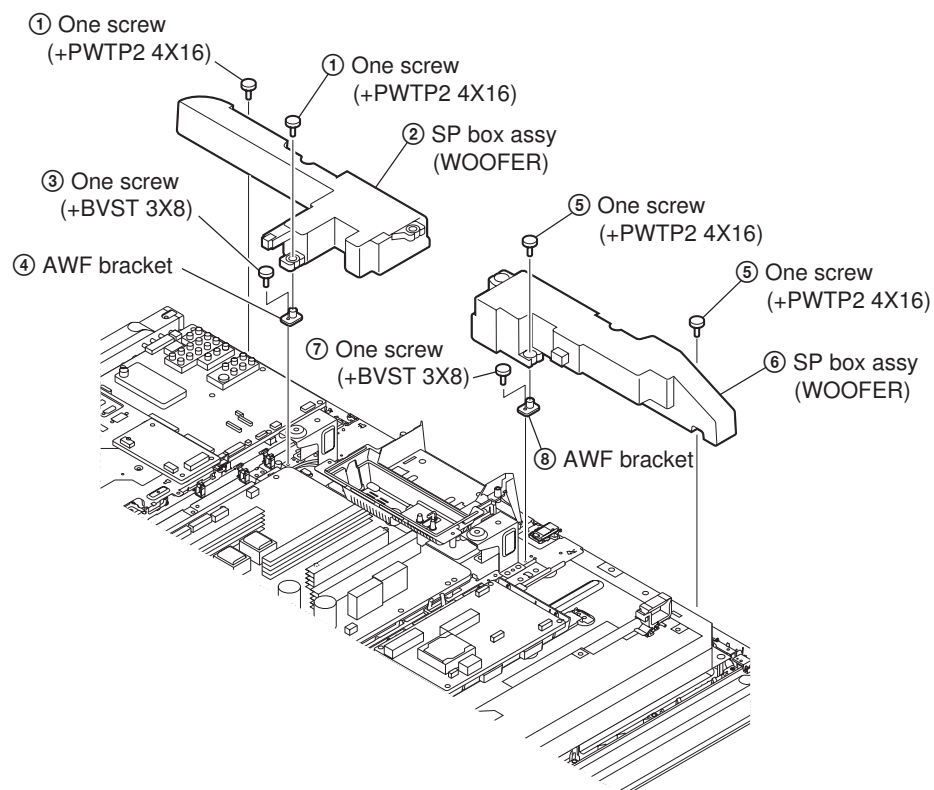


1-1-4. HEAT SINK REMOVAL

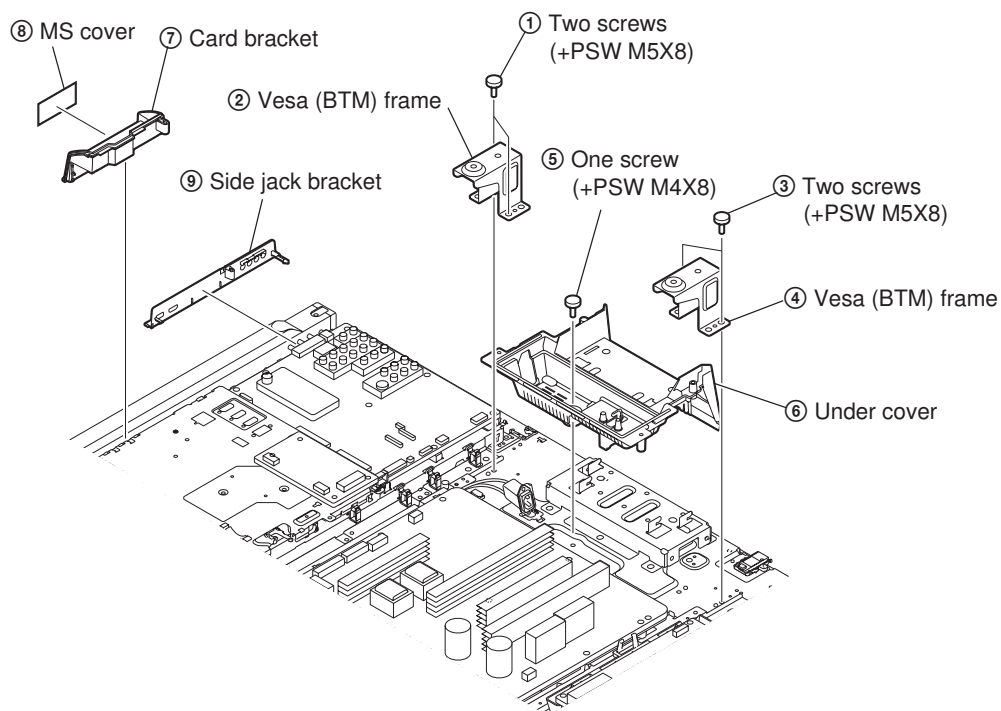


KDL-40XBR45/40X4500

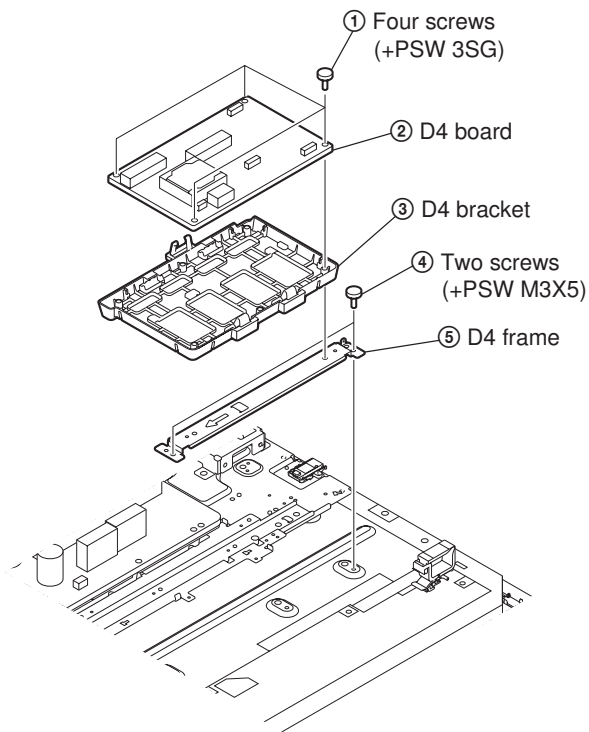
1-1-5. SP BOX ASSY (WOOFER) REMOVAL



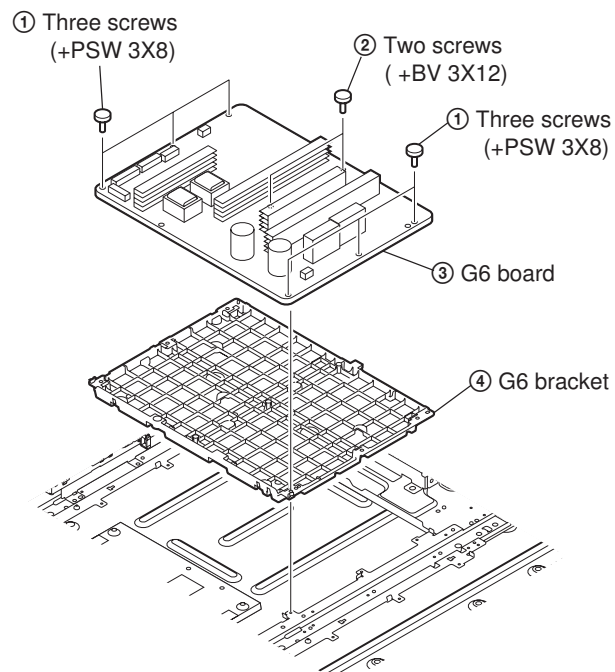
1-1-6. UNDER COVER, SIDE JACK BRACKET AND CARD BRACKET REMOVAL



KDL-40XBR45/40X4500
1-1-7. D4 BOARD REMOVAL

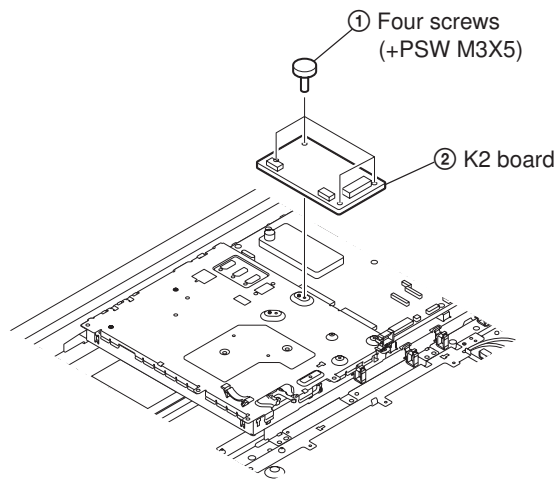


1-1-8. G6 BOARD REMOVAL

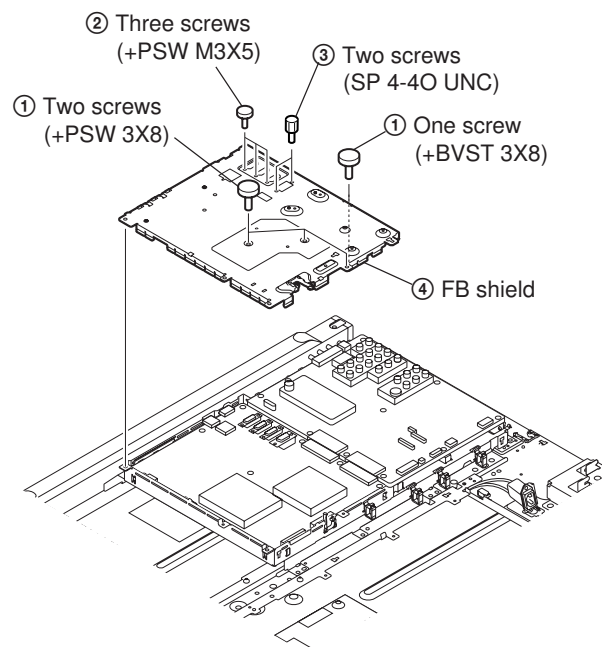


KDL-40XBR45/40X4500

1-1-9. K2 BOARD REMOVAL

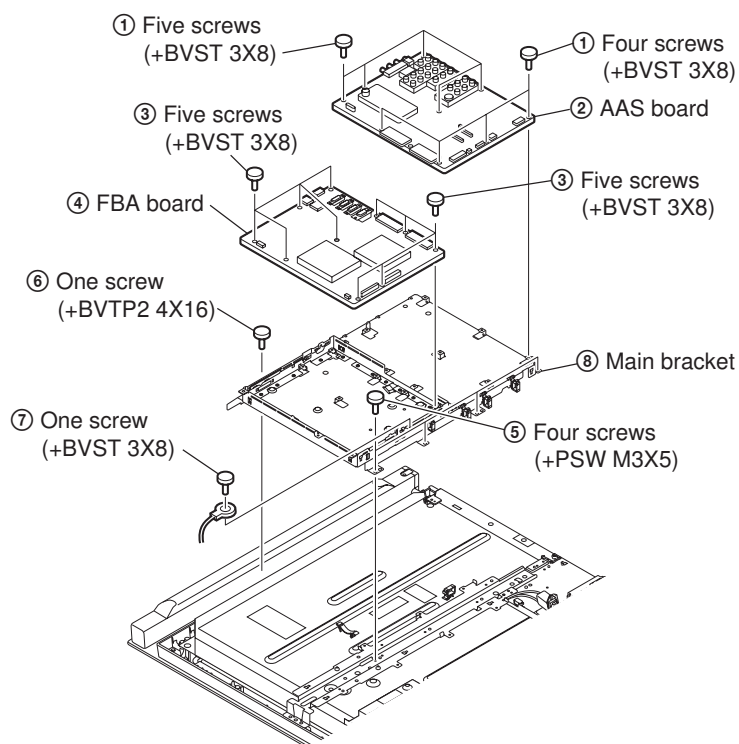


1-1-10. FB SHIELD REMOVAL

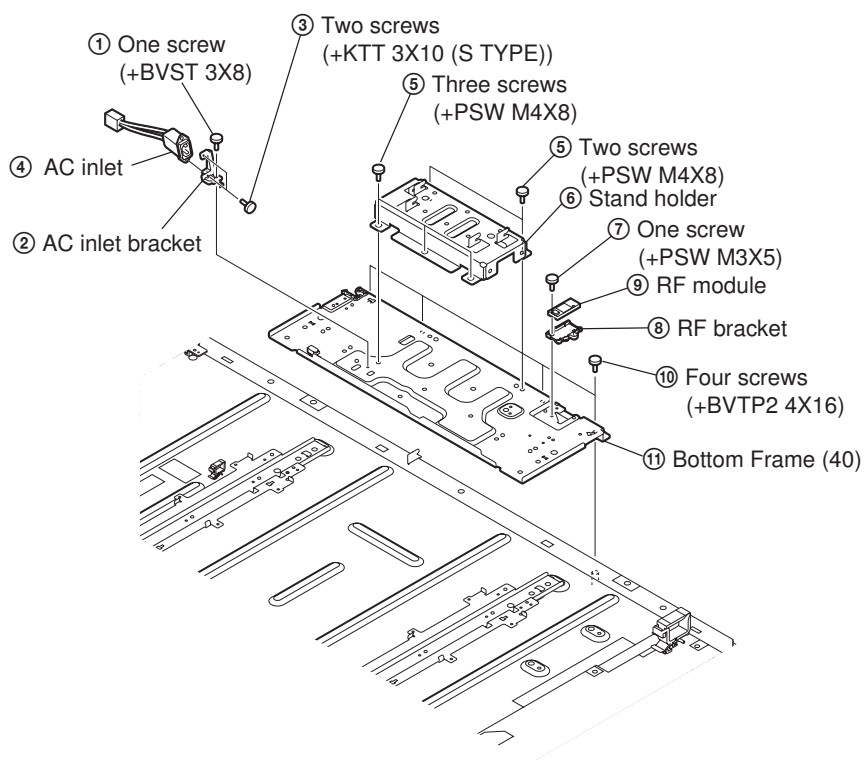


KDL-40XBR45/40X4500

1-1-11. AAS AND FBA BOARDS REMOVAL

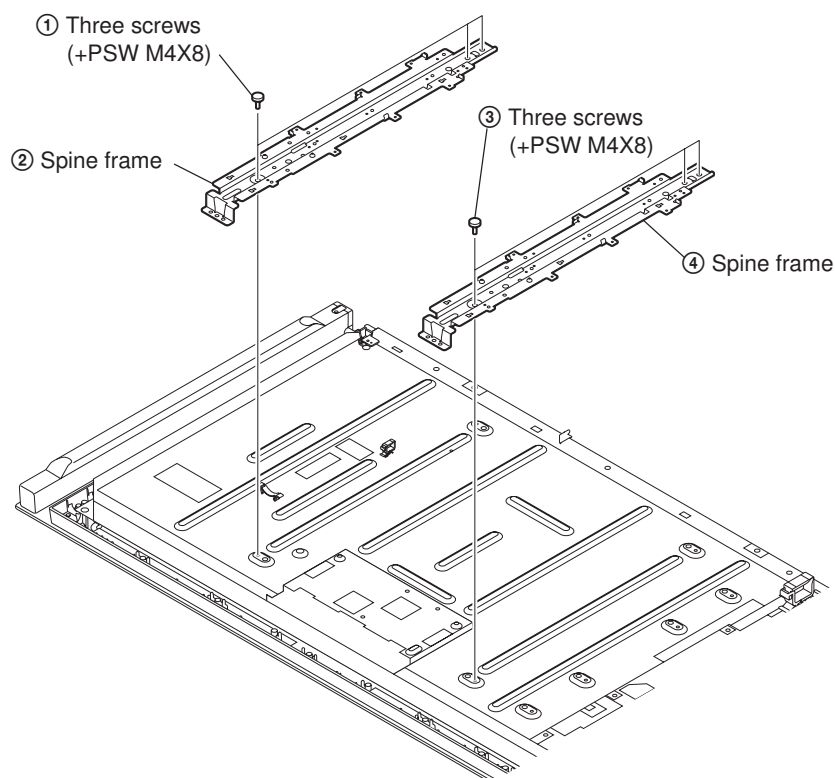


1-1-12. AC INLET REMOVAL

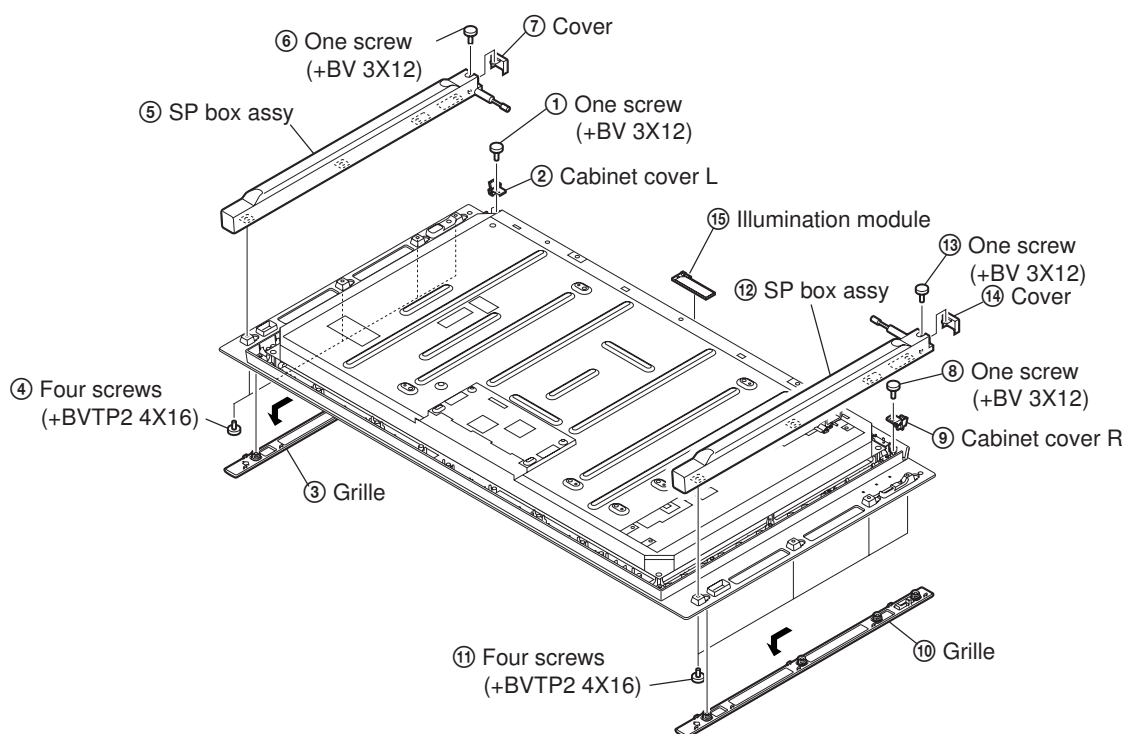


KDL-40XBR45/40X4500

1-1-13. SPINE FRAME REMOVAL

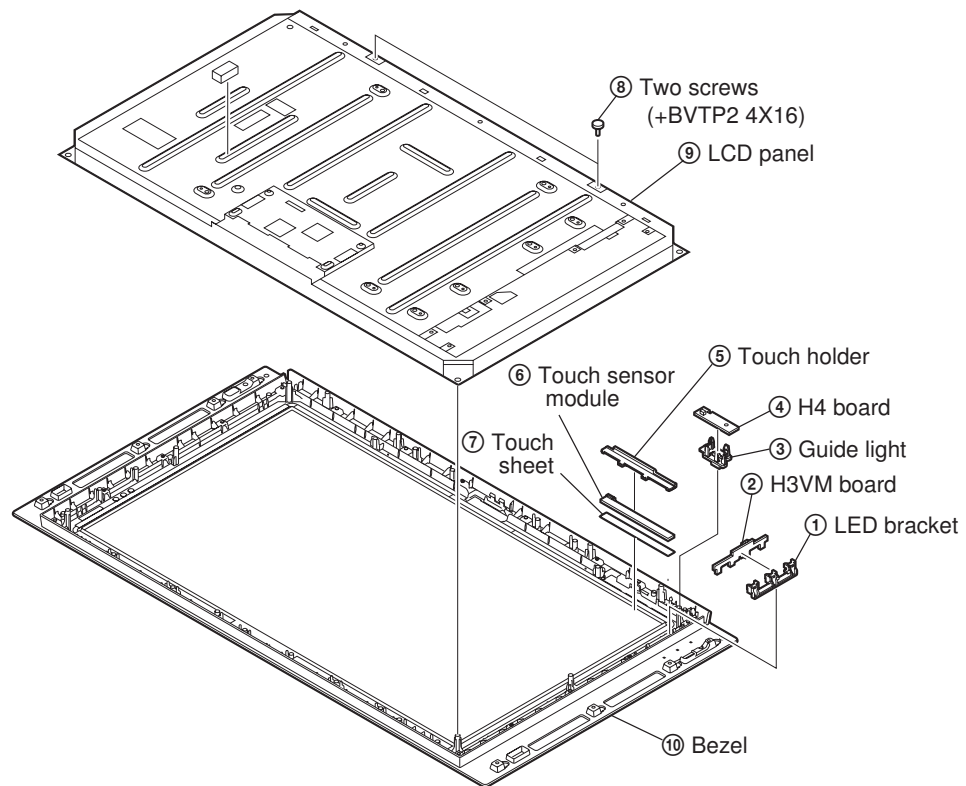


1-1-14. SPEAKER BOX ASSY REMOVAL



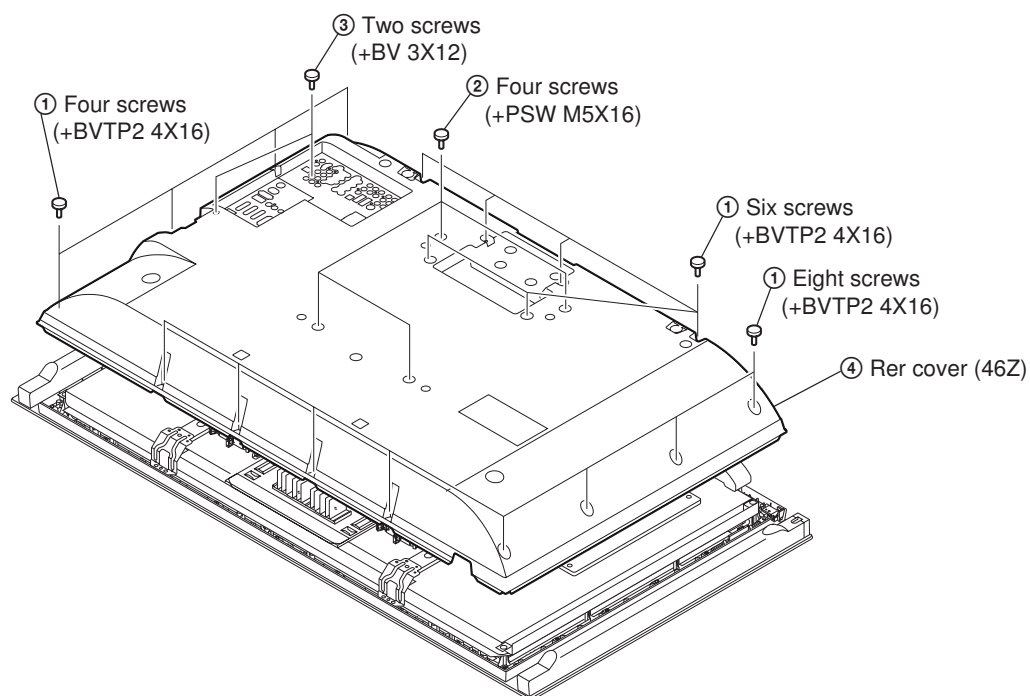
KDL-40XBR45/40X4500

1-1-15. LCD PANEL, H3VM BOARD AND H4 BOARD REMOVAL

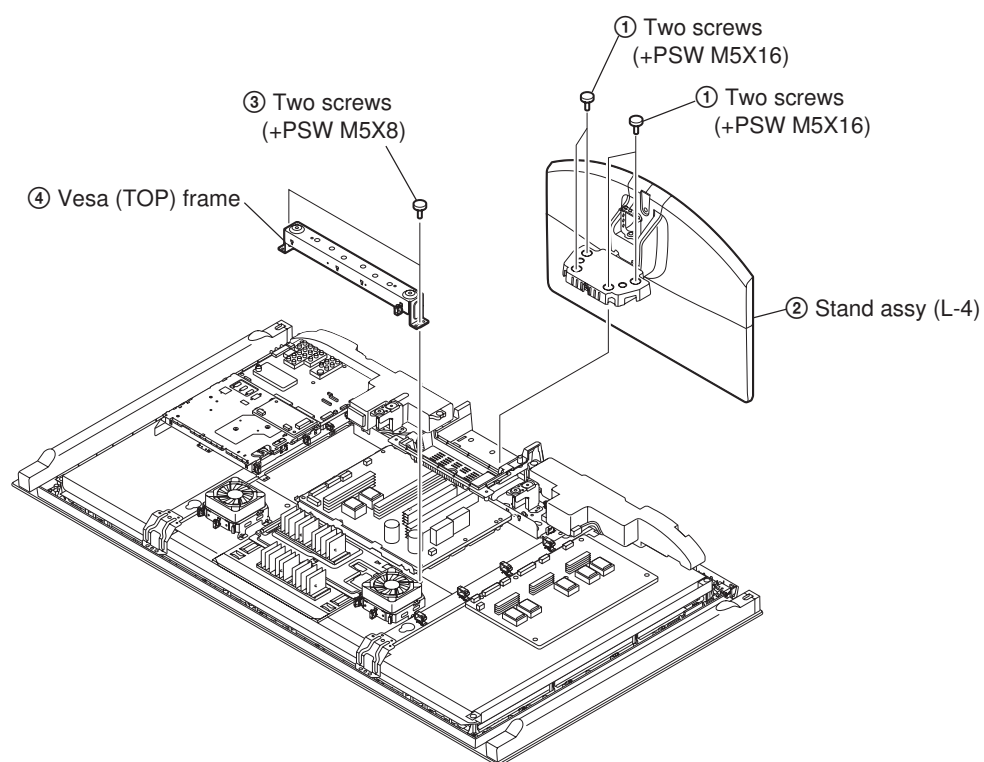


1-2. KDL-46XBR45/46X4500

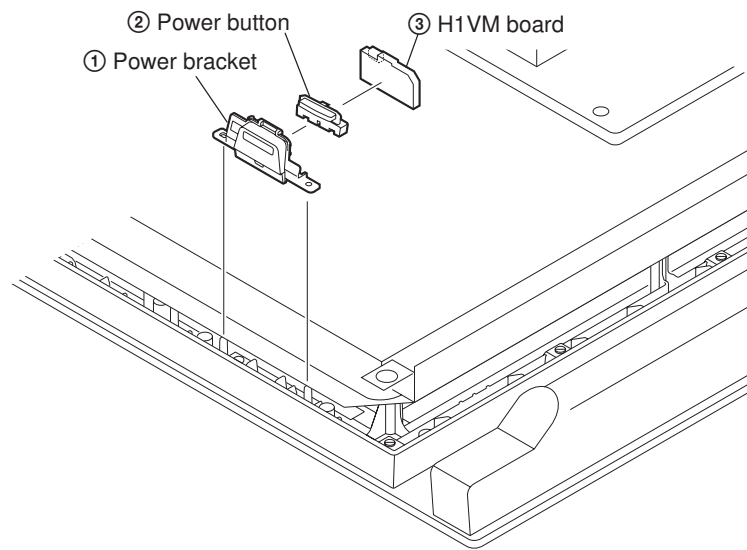
1-2-1. REAR COVER REMOVAL



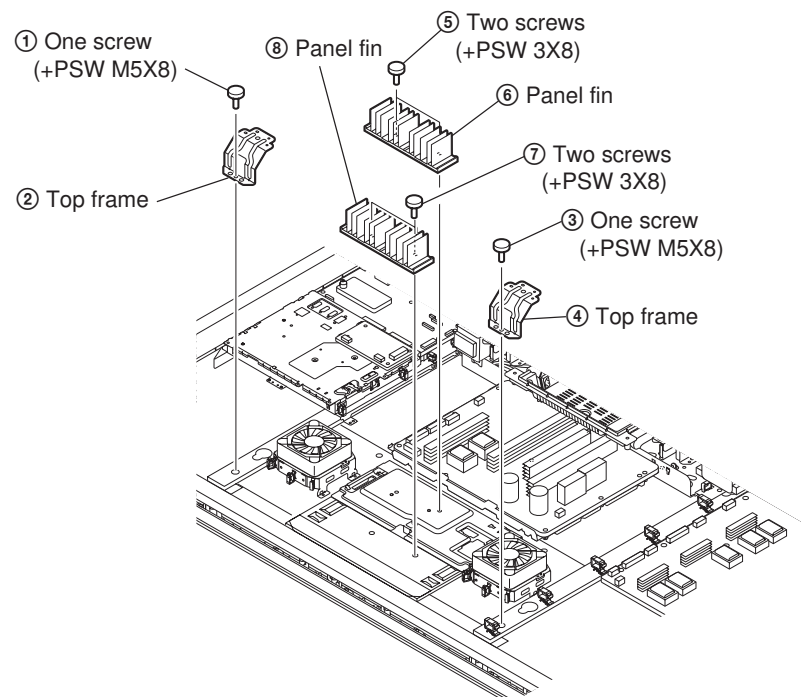
1-2-2. STAND ASSY REMOVAL



KDL-46XBR45/46X4500
1-2-3. H1VM BOARD REMOVAL

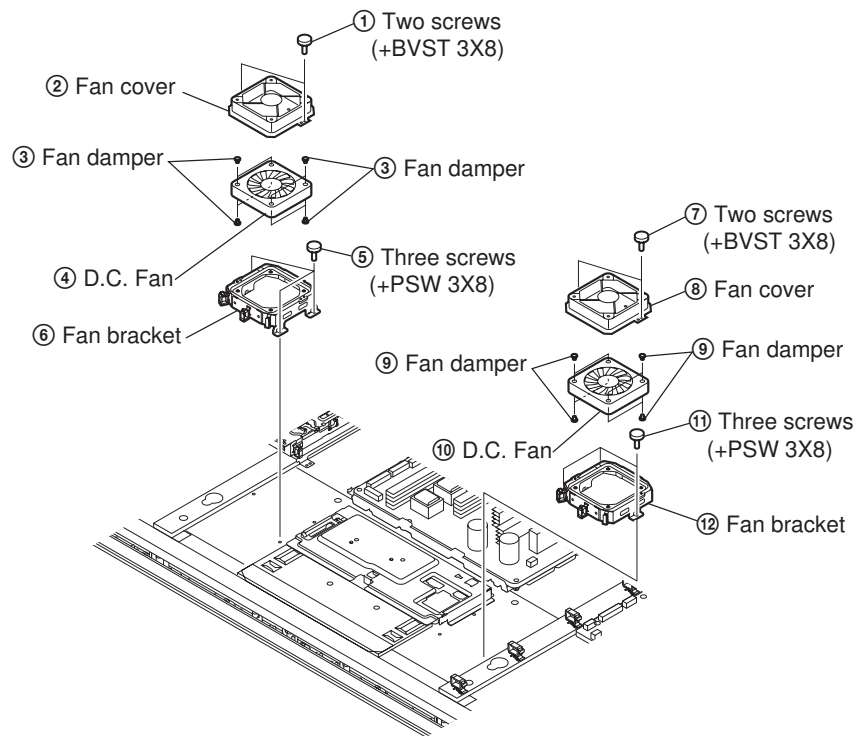


1-2-4. PANEL FIN REMOVAL

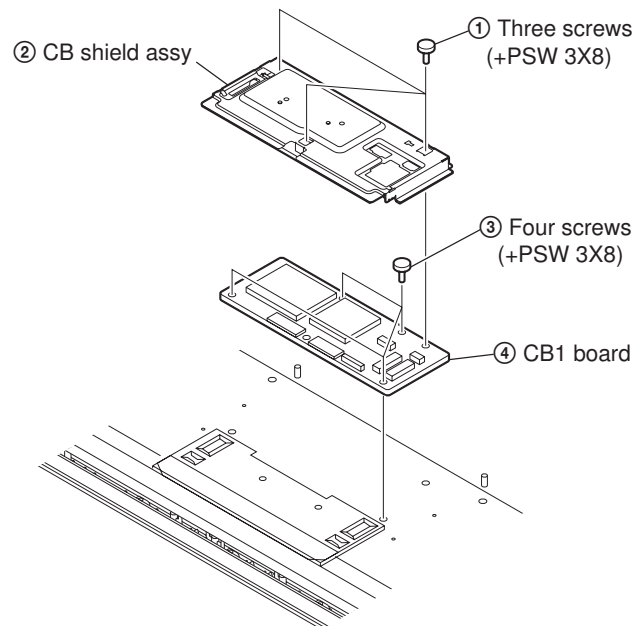


KDL-46XBR45/46X4500

1-2-5. FAN REMOVAL

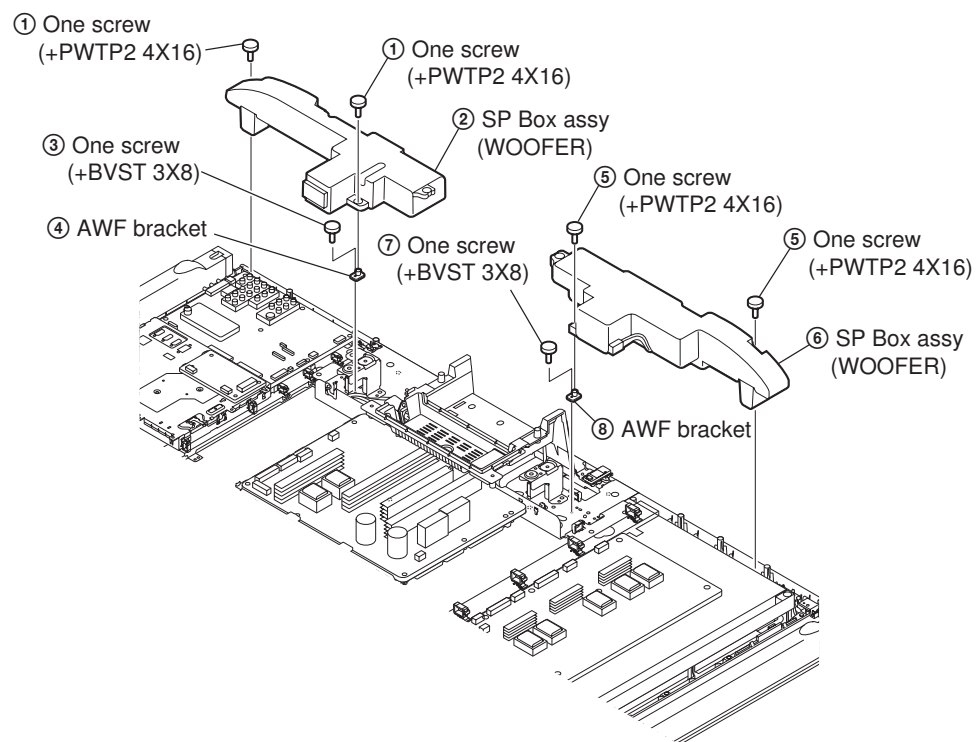


1-2-6. CB1 BOARD REMOVAL

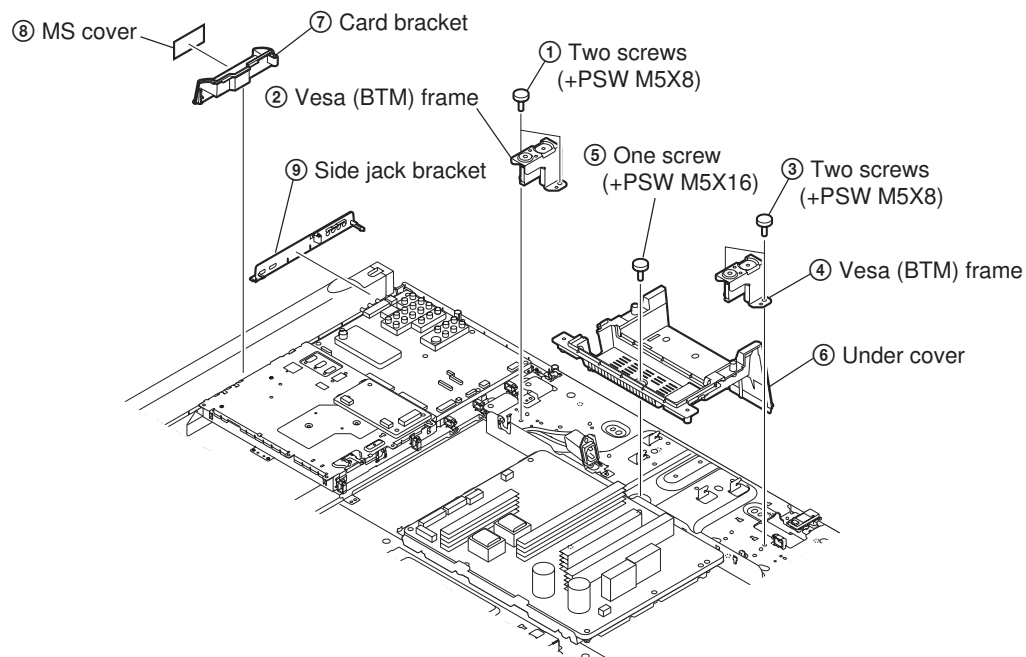


KDL-46XBR45/46X4500

1-2-7. SP BOX (WOOFER) REMOVAL

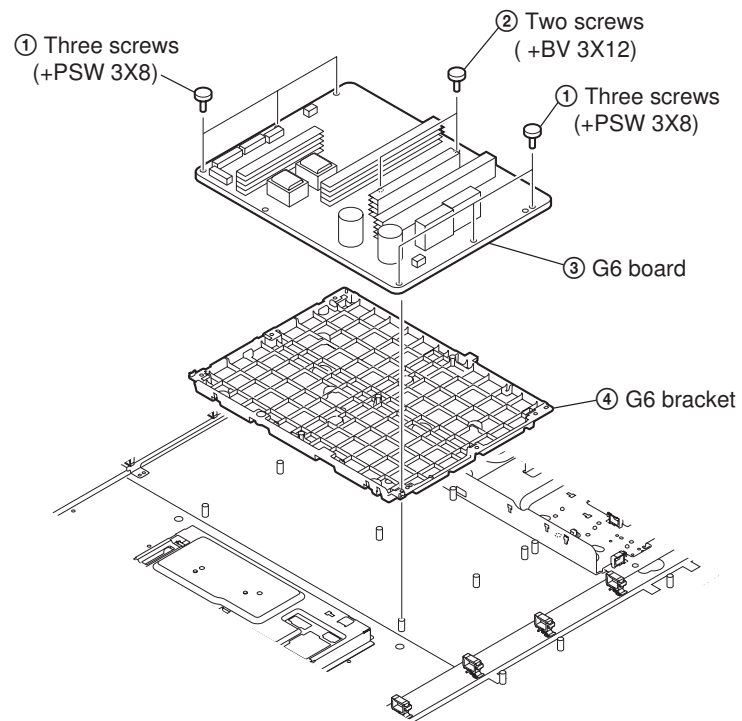


1-2-8. UNDER COVER, SIDE JACK BRACKET AND CARD BRACKET REMOVAL

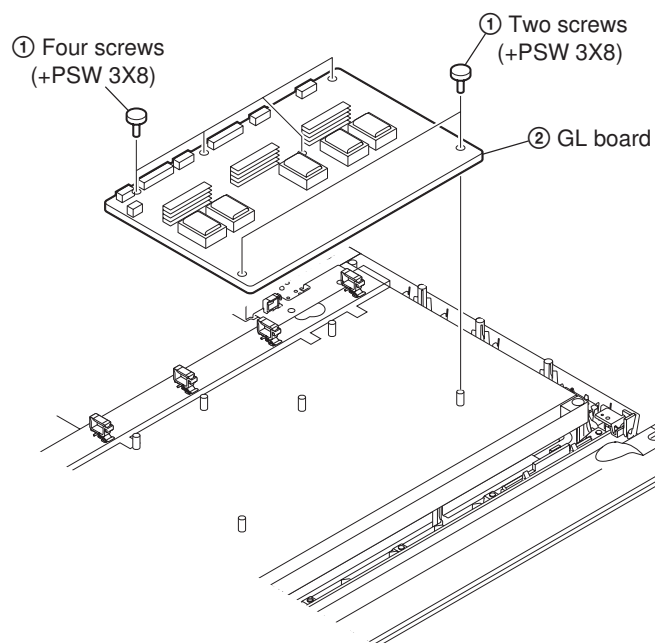


KDL-46XBR45/46X4500

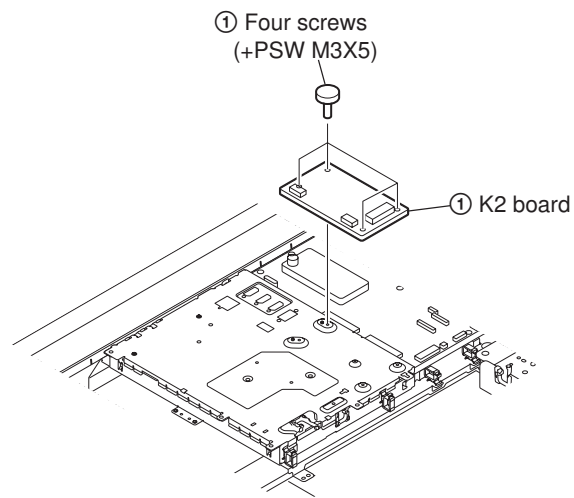
1-2-9. G6 BOARD REMOVAL



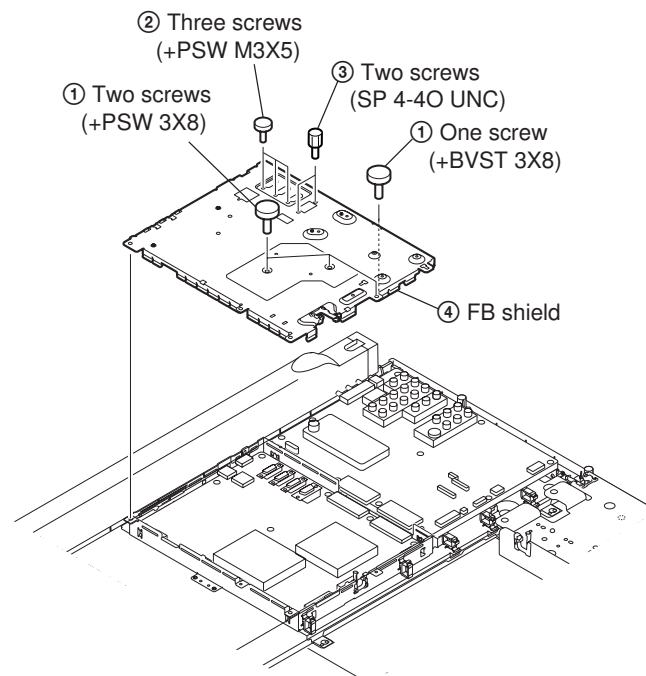
1-2-10. GL BOARD REMOVAL



KDL-46XBR45/46X4500
1-2-11. K2 BOARD REMOVAL

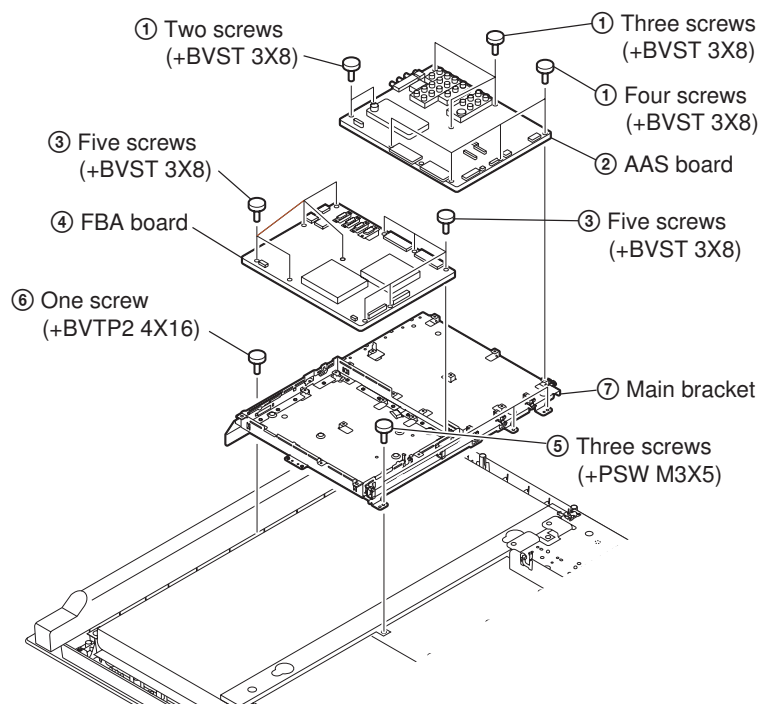


1-2-12. FB SHIELD REMOVAL

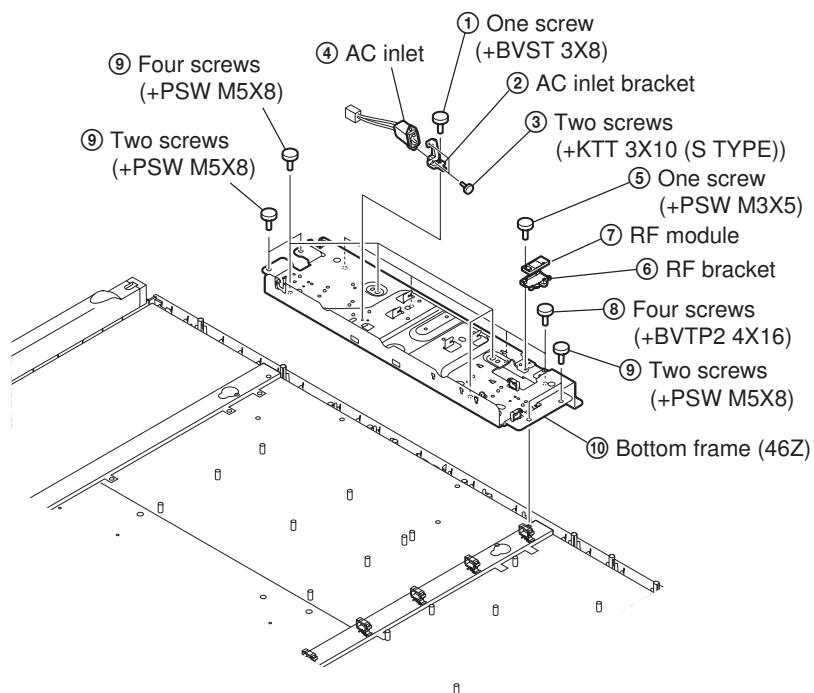


KDL-46XBR45/46X4500

1-2-13. AAS AND FBA BOARDS REMOVAL

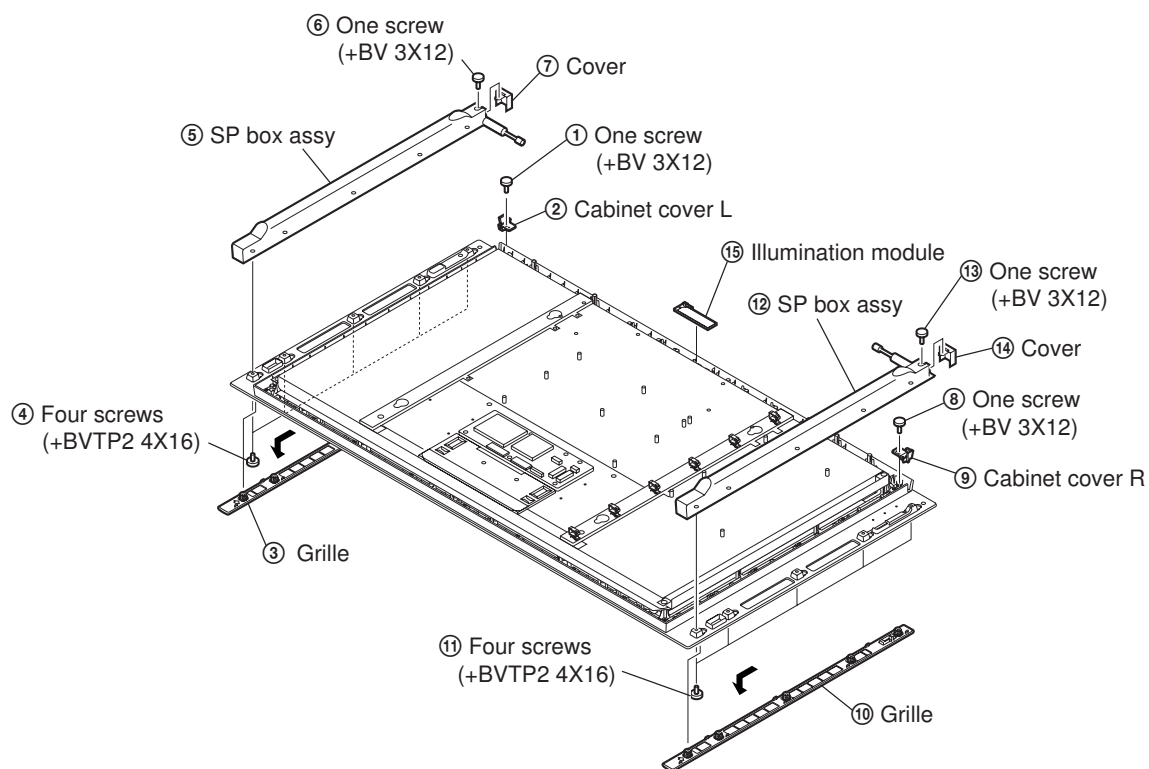


1-2-14. AC INLET REMOVAL

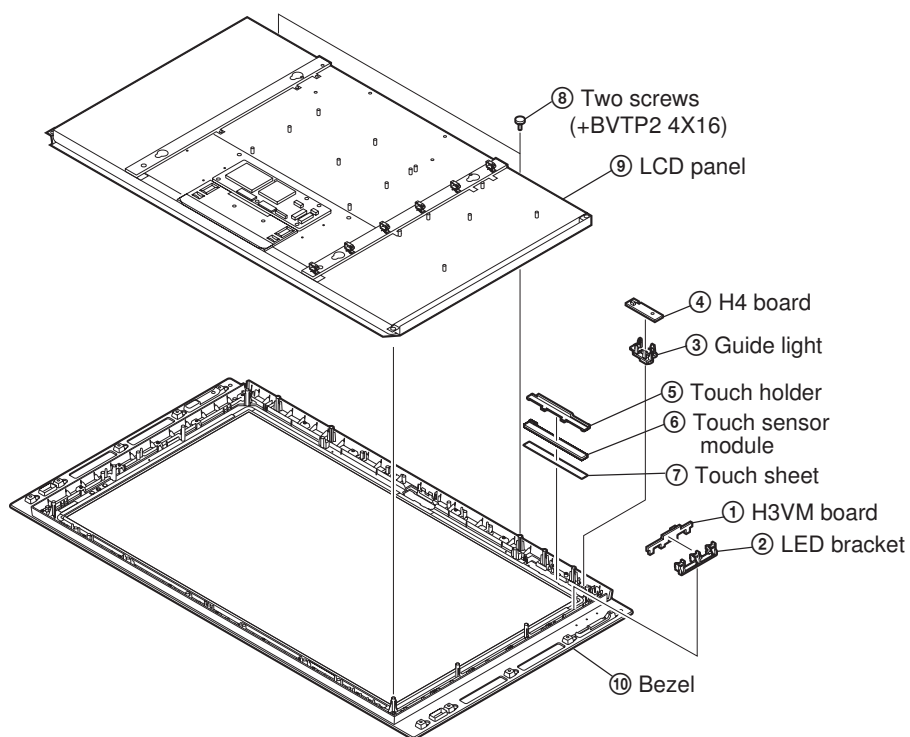


KDL-46XBR45/46X4500

1-2-15. SPEAKER BOX ASSY REMOVAL

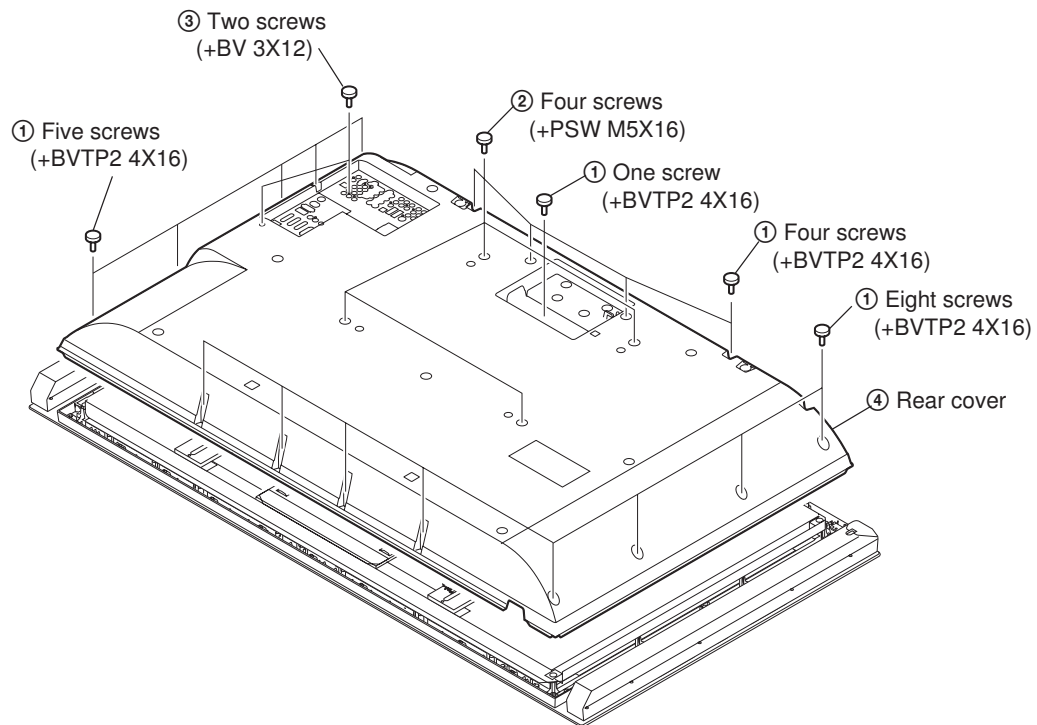


1-2-16. LCD PANEL, H3VM BOARD AND H4 BOARD REMOVAL

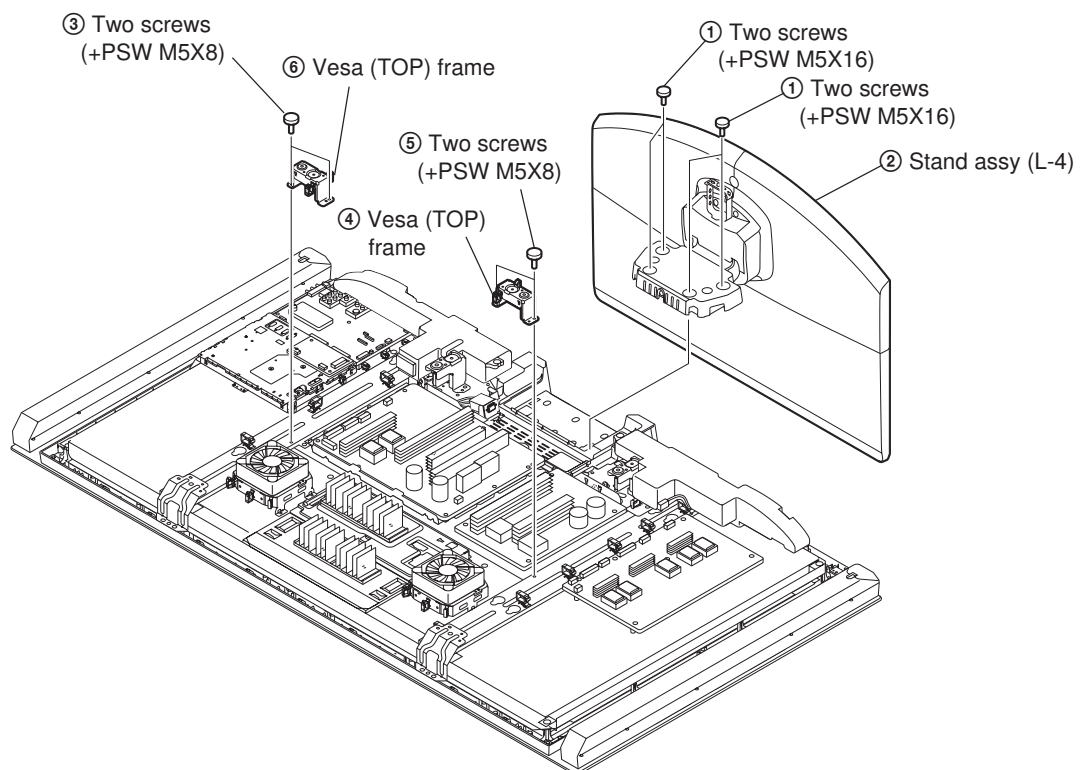


1-3. KDL-55XBR45/55X4500

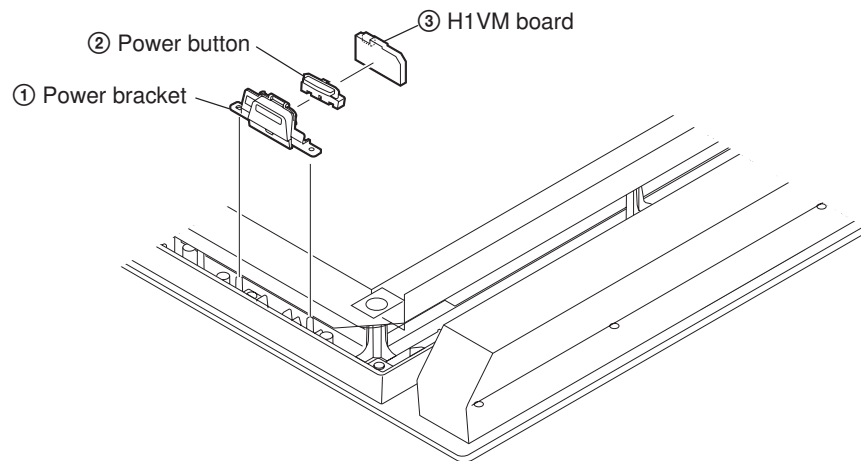
1-3-1. REAR COVER REMOVAL



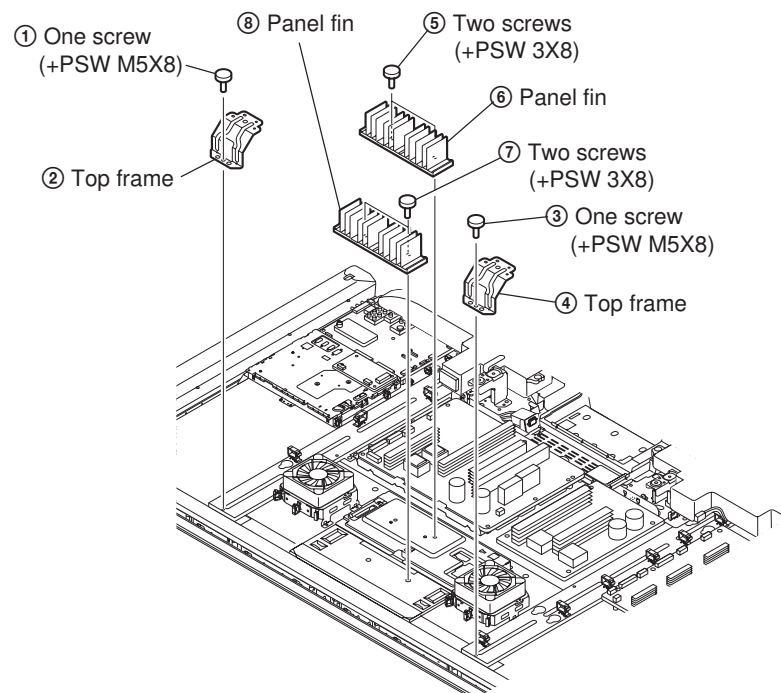
1-3-2. STAND ASSY REMOVAL



KDL-55XBR45/55X4500
1-3-3. H1VM BOARD REMOVAL

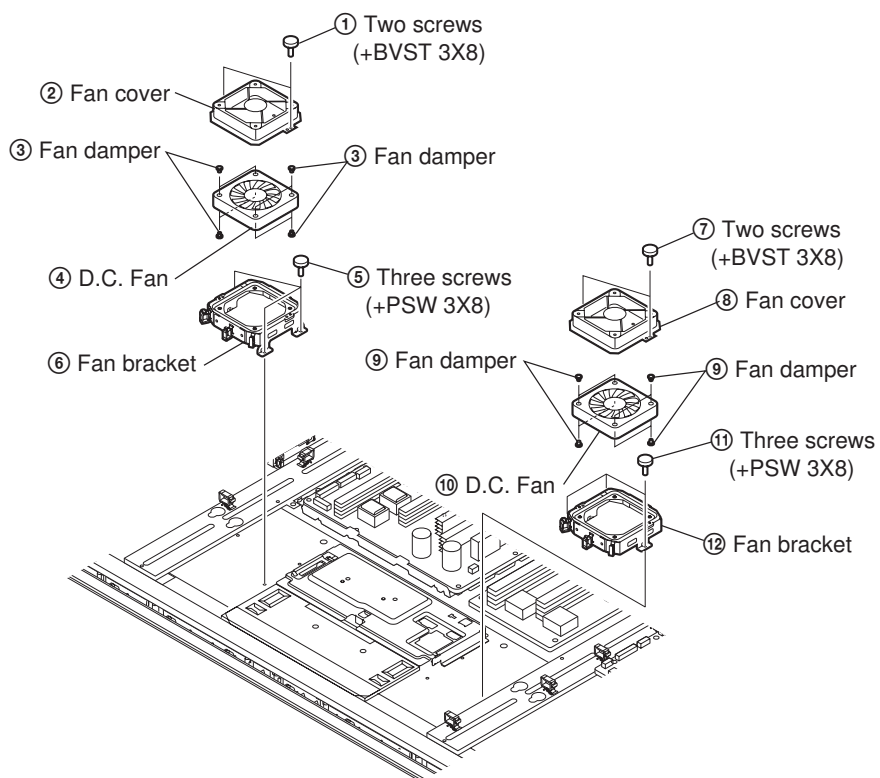


1-3-4. PANEL FIN REMOVAL

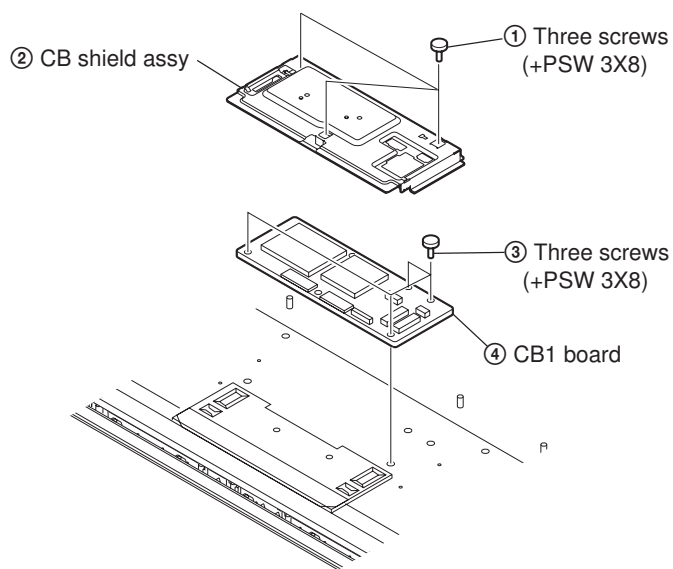


KDL-55XBR45/55X4500

1-3-5. FAN REMOVAL

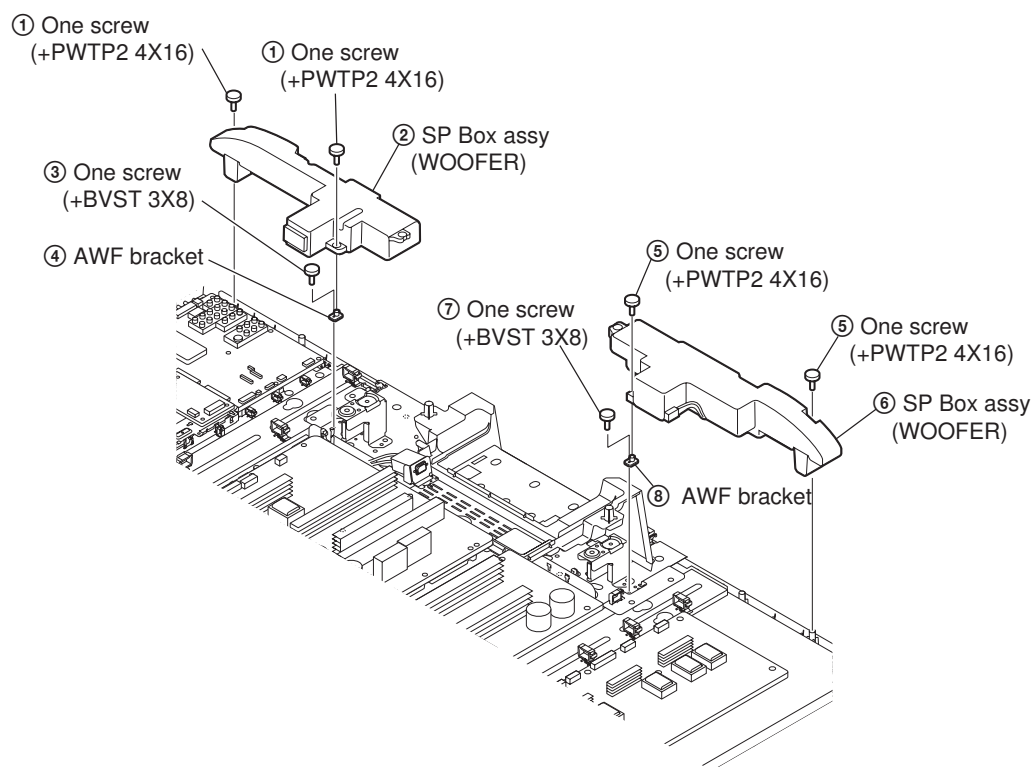


1-3-6. CB1 BOARD REMOVAL

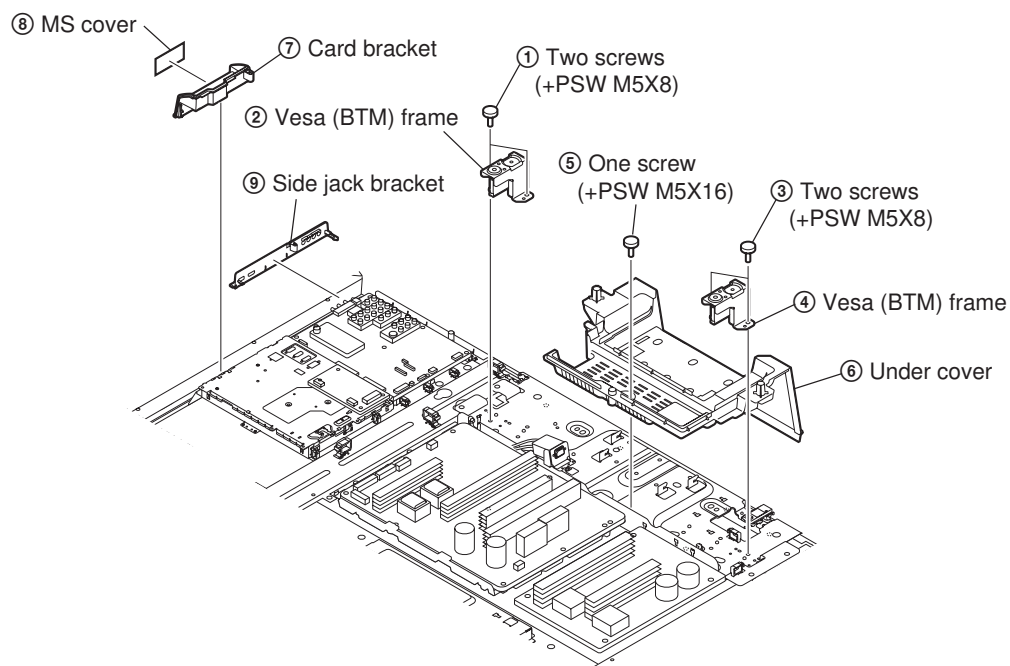


KDL-55XBR45/55X4500

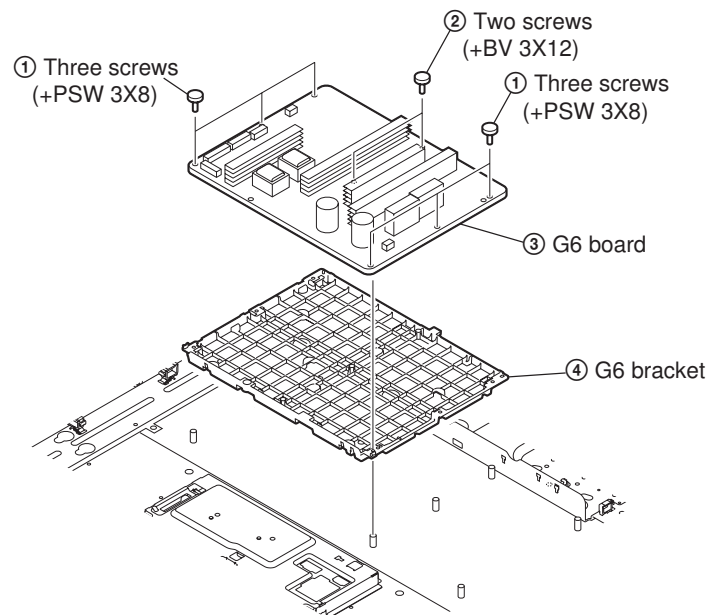
1-3-7. SP BOX (WOOFER) ASSY REMOVAL



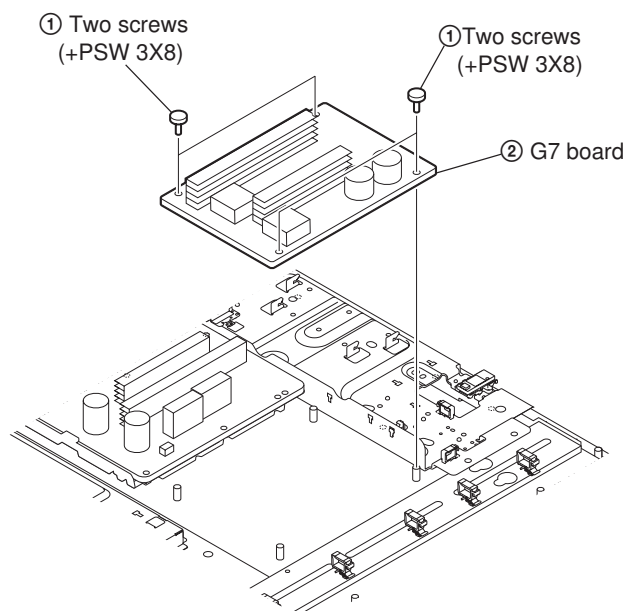
1-3-8. UNDER COVER, SIDE JACK BRACKET AND CARD BRACKET REMOVAL



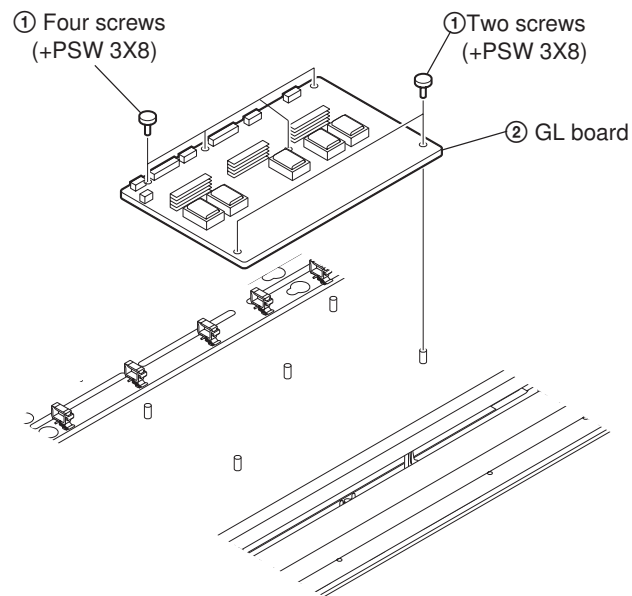
KDL-55XBR45/55X4500
1-3-9. G6 BOARD REMOVAL



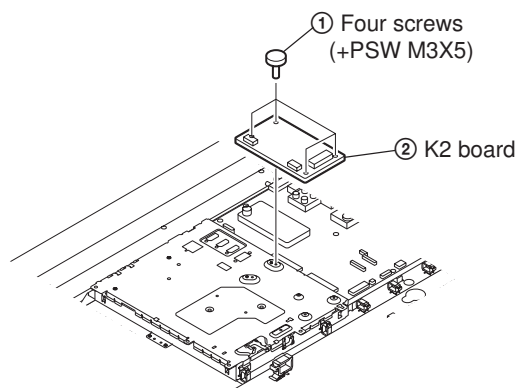
1-3-10. G7 BOARD REMOVAL



KDL-55XBR45/55X4500
1-3-11. GL BOARD REMOVAL

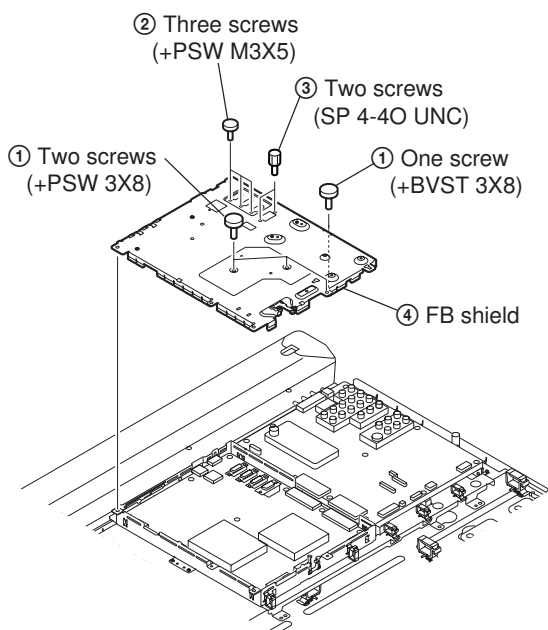


1-3-12. K2 BOARD REMOVAL

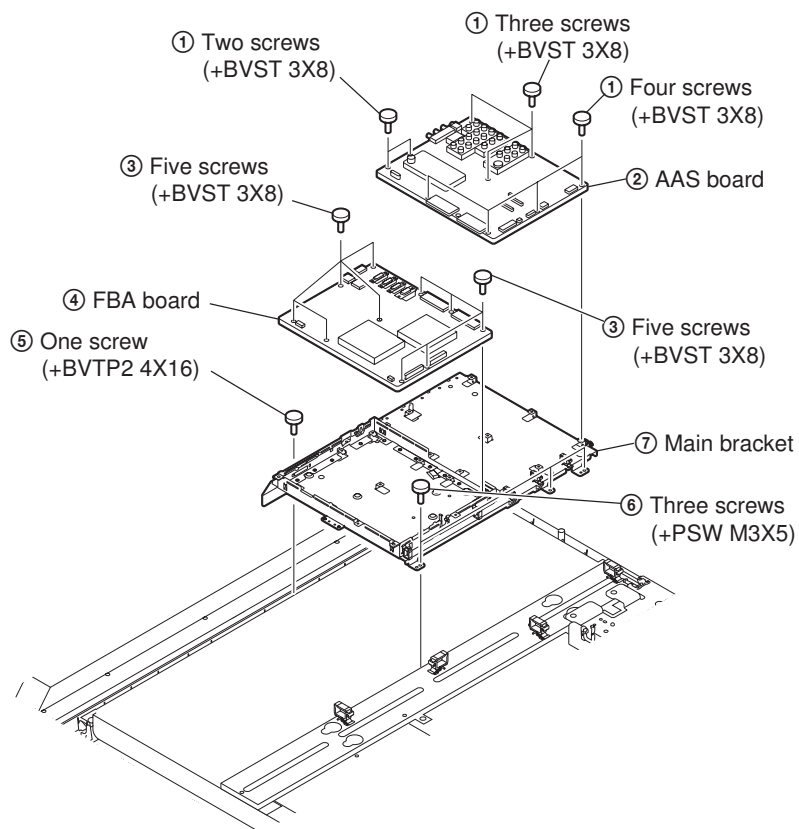


KDL-55XBR45/55X4500

1-3-13. FB SHIELD REMOVAL

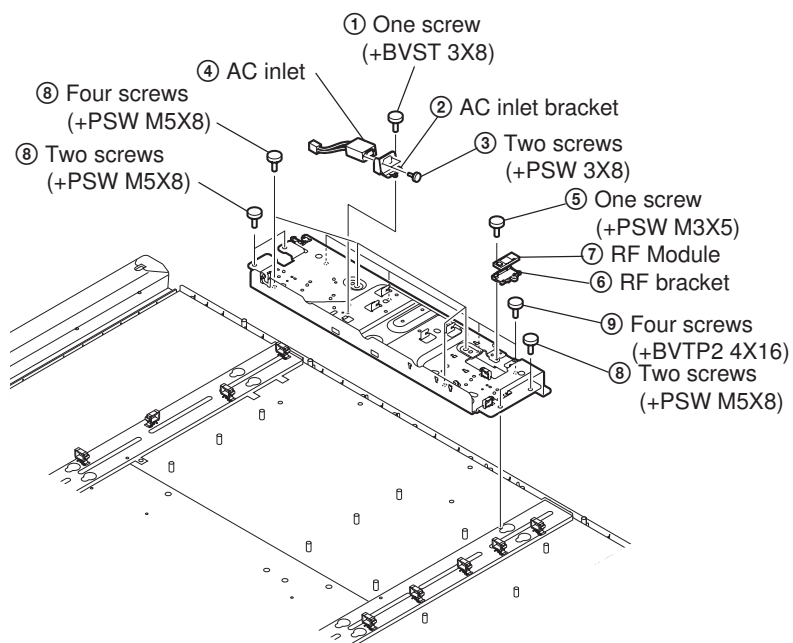


1-3-14. AAS AND FBA BOARDS REMOVAL

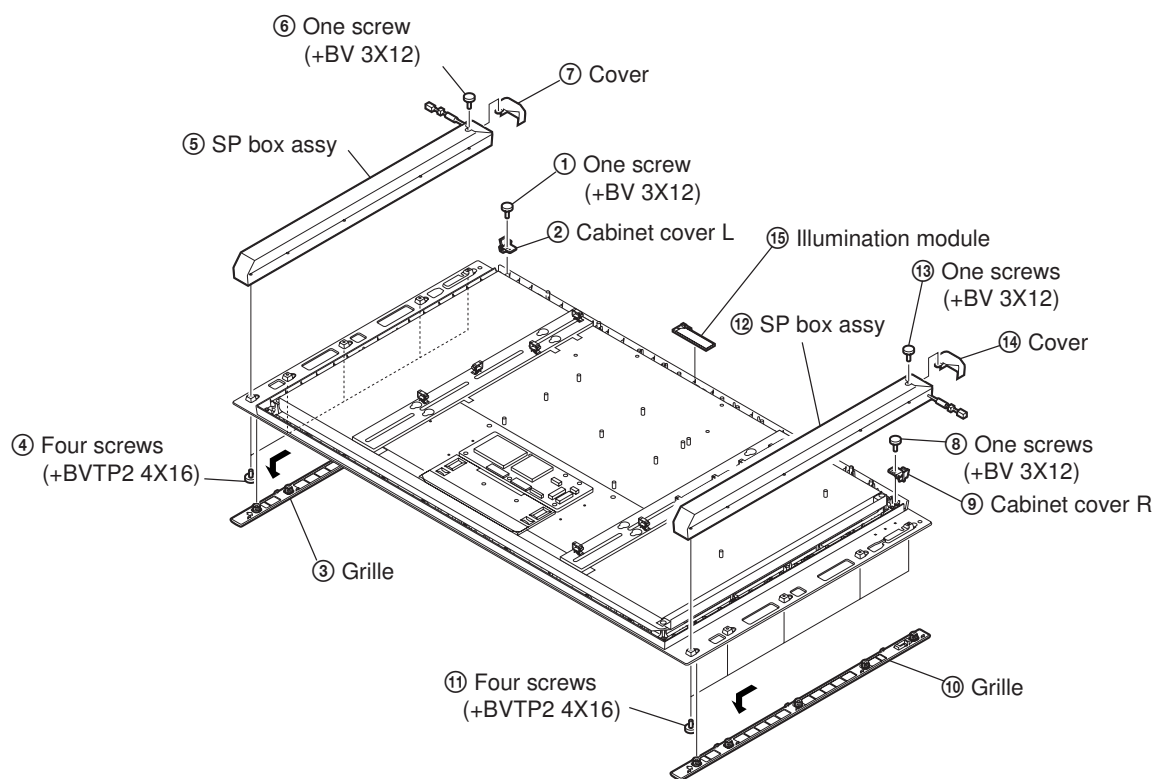


KDL-55XBR45/55X4500

1-3-15. AC INLET REMOVAL

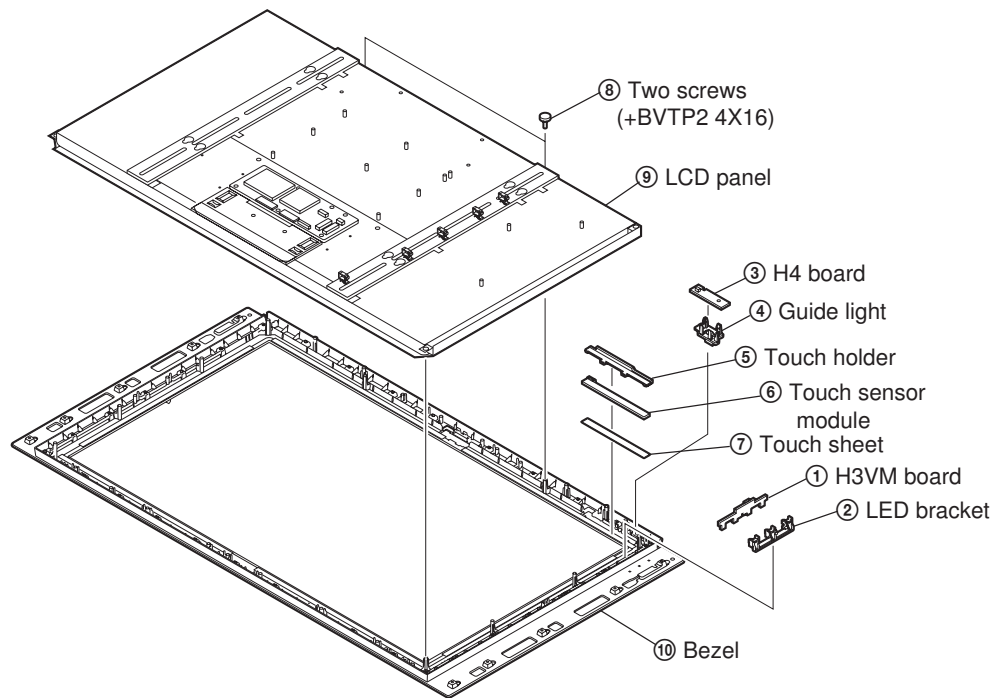


1-3-16. SPEAKER BOX ASSY REMOVAL



KDL-55XBR45/55X4500

1-3-17. LC PANEL, H3VM BOARD AND H4 BOARD REMOVAL



SECTION 2

TROUBLESHOOTING

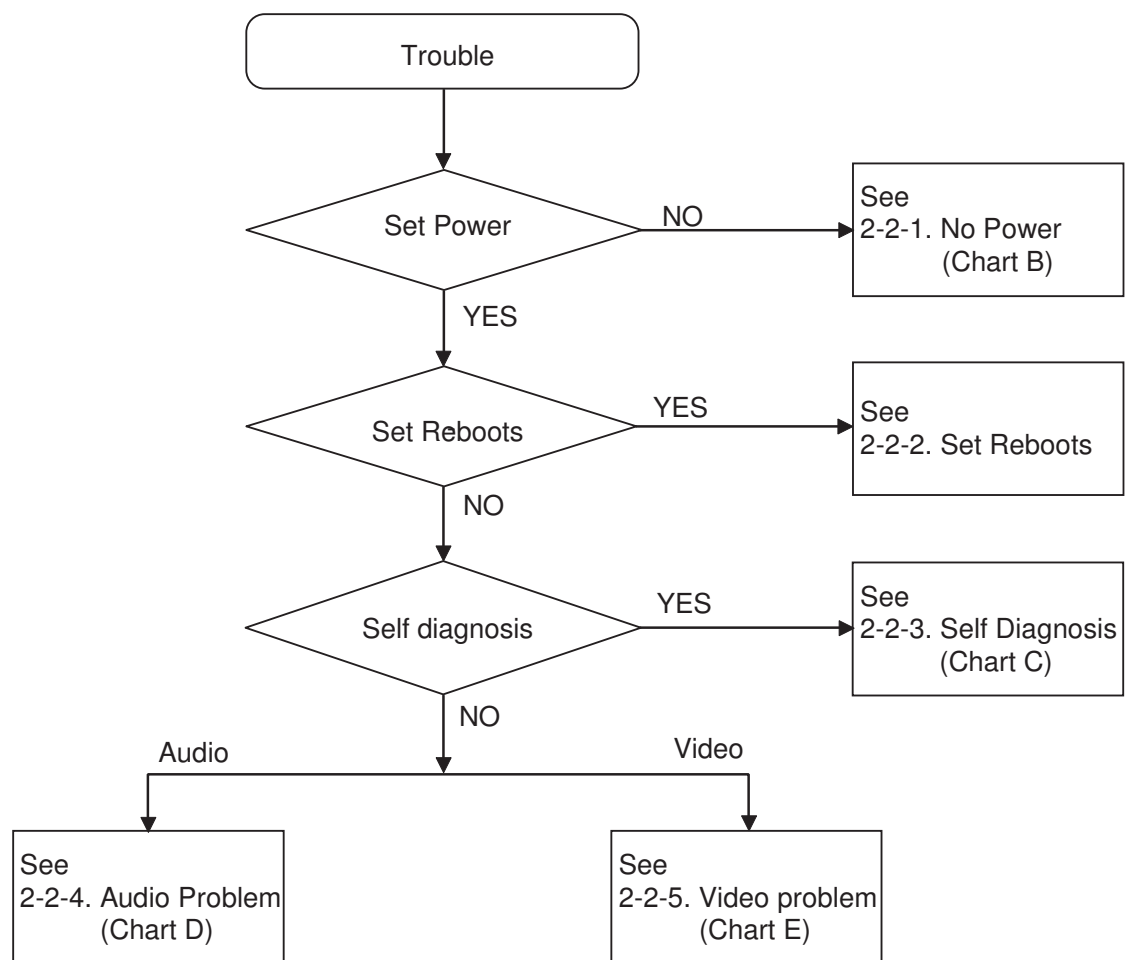
2-1. TRIAGE CHART

Reference	Symptoms - (dead set)								Video - distorted or missing					
	2 Blinks	5 Blinks	6 Blinks	7 Blinks	8 Blinks	9 Blinks	13 Blinks	No Power	No Video BL OK OSD OK	No Video No BL	No Video BL OK No OSD	No Tuner Video OK	No HDMI	No Audio
AAS Board	●			●	●	●		▲	●			●	▲	●
FBA Board	▲	▲	●	▲		▲	●		●	●	●	●	●	
CB1 Board (46"/55")		●	●				●			●	●			
K2 Board					●									●
G6/G7 Board (55")	●		●					●		●				
GL Board (46"/55")			●					●		●				
D4 Board (40")			●				▲	●		●				
Panel Module		●	●				●			●				
LVDS cable between FBA Board and CB1 Board		▲					▲			●	●			
Joint connector of AAS Board and FBA Board	●					▲		●	●			▲	▲	
Flowchart Reference	C	C	C	C	C	C	C	B	E	E	E	E	E	D
Problem	Low B+	T-CON	BL	Temp	Audio	FAN	Balancer							

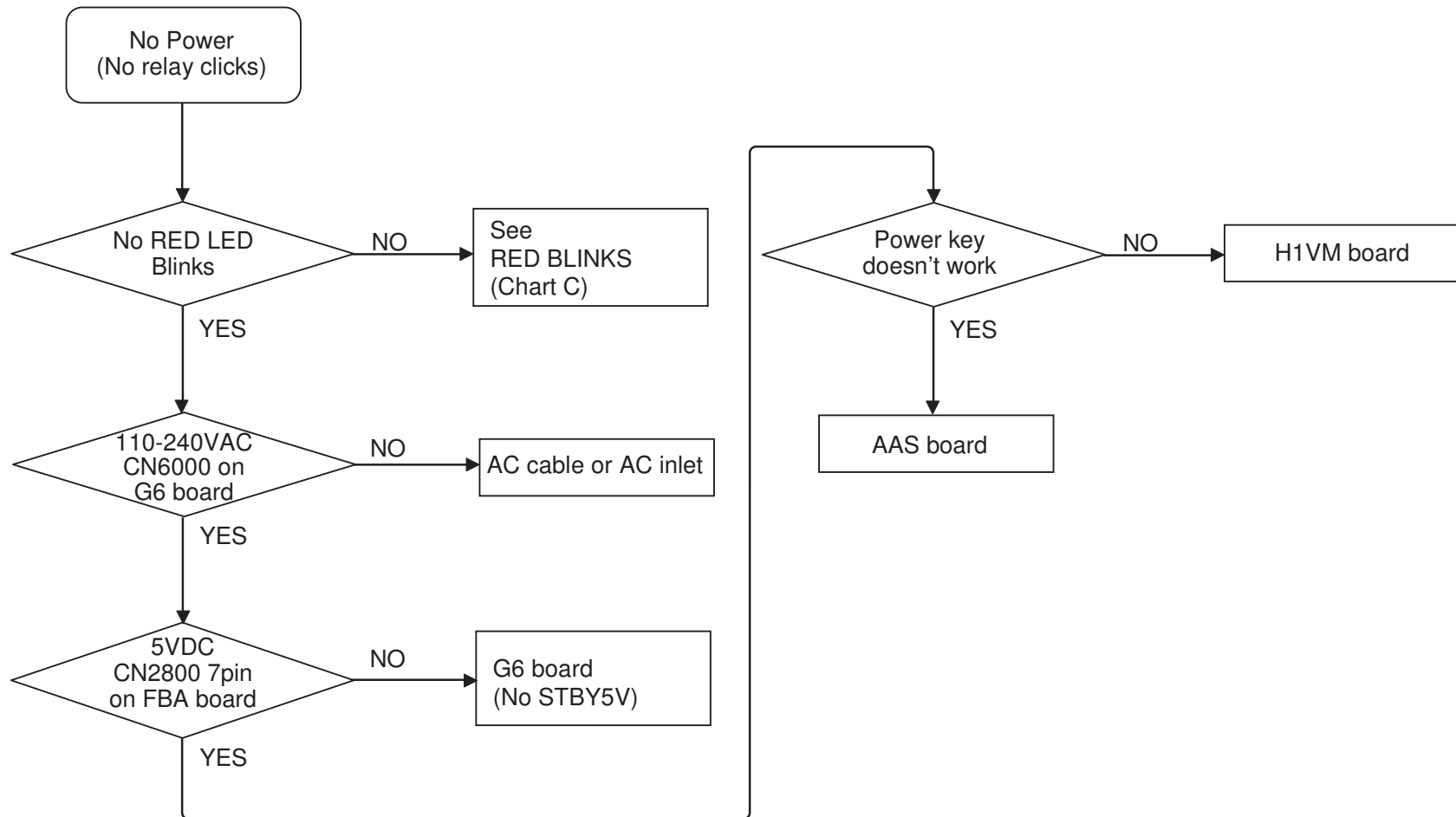
● : Doubtful part

▲ : just a few possibility

2-2. FLOW CHART



2-2-1. NO POWER (Chart B)



2-2-2. SET REBOOTS

TV micro (on AAS board) is monitoring if BE Micro & EMMA (on FBA board) are alive or on abnormal status by watch dog timer. When BEM or EMMA has not boot up, TVM try to re-start. We can see chassis reboot at this case. Check whether FBA board is supplied with correct power or not.

- FBA board
 - CN 2800 12V power and harness to G6 board.
 - F2800, F4100, F4101, F4102, F5400, F7800, F7801 conduction.

If power rail has no problem, replace FBA board.

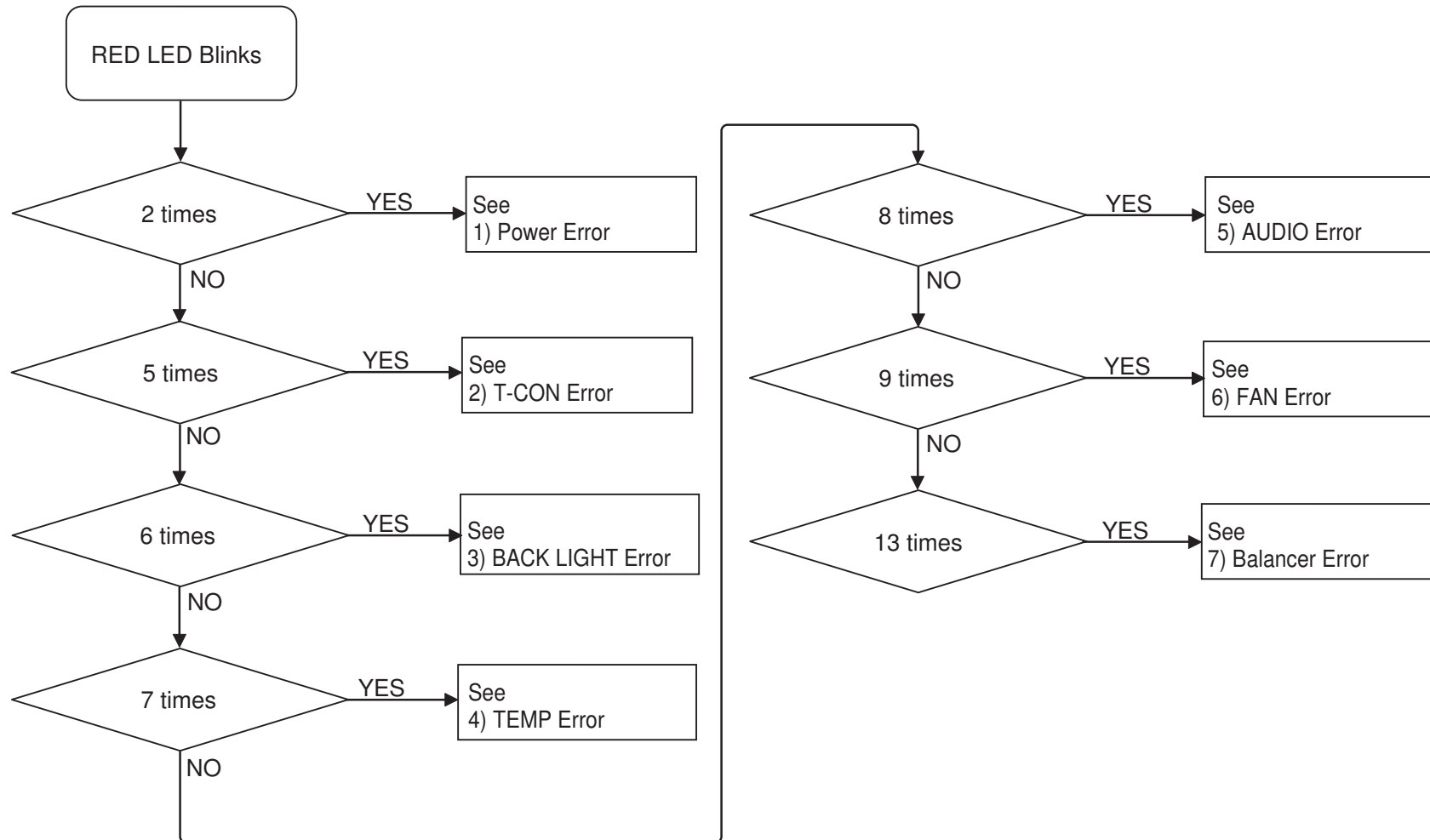
2-2-3. SELF DIAGNOSIS

2-2-3-1. RED LED BLINKS TABLE

Red LED Blink	Display (Self Diagnosis mode)	Contents
2	POW_ERR1	Power Error (watching 12V rail)
5	T_CON	T-CON Error [CCFL] Panel Inverter Error
6	BACKLITE	[LED] GL board Error
7	PANELTEMP	Panel Temperature Abnormal Detection
8	AUD_PROT	Audio Abnormal Detection
9	FAN_ERR	FAN Error -> Not detect (reboot operation)
13	BALANCER	[CCFL] Panel Balancer Error [LED-BL] SPI Error (Babylon Communication Error)

When self diagnosis happens, STBY (RED) LED blinks and the history can be seen on display by self diagnosis mode.

2-2-3-2. RED LED BLINKS (Chart C)



1) Power Error (RED 2 times blink)

This indicates POWER Error, Low B error of 12V from G6 board. TV Micro (on AAS board) monitors pin79 and pin138 to detect POWER_ERR and shuts down chassis power to Standby status.

TV Micro pin138 Normal condition : Low / Error case : High
TV Micro pin79 $i_{lb_err} < 0.7V(PW_ERR_LEV)$

- Check 12V at CN 1000 on AAS board. And F1001 on AAS has 12V or not.
- Check G6 board.

2) T-CON Error (RED 5 times blink)

This indicates T-CON RDY signal error from timing controller of Panel module. BE micro pin128 on FBA board detects it.

BE Micro pin128 Normal condition : High / Error case : Low

Replace Panel module.

3) Back Light Error (RED 6 times blink)

This indicates panel power circuit error such as inverter. BE micro pin 78 on FBA board detects it.

BE Micro pin 78 Normal condition : High / Error case : Low

Replace D4 board in case of GL board in case of LED model.

4) Temp Error (RED 7 times blink)

This indicates high temperature inside chassis. IC1000 on AAS board Side is monitoring temperature. IC1000 is controlled by BEM I2C.

When it happens;

- Check chassis environment.
- Check around IC1000 and replace AAS board if temperature monitoring circuit has problem.

5) Audio Error (RED 8 times blink)

This indicates Audio Error. (Protection)

It happens;

- Error of Speakers and Harness.
- Digital amp on K2 Board are High Temperature.

Check Voltage at CN1002 20pin on AAS board. (Low = Normal , High= Error)

If Error , Replace Speaker or Harness or K2 board.

- Low Voltage at IC1800 [Audio_Vcc($\approx$ 12V) , A9V , D3.3V]
- Error of IC1800

Replace AAS board.

6) FAN Error (RED 9 times blink)

This indicates FAN error. (except 40 inch model)

BE micro pin154 on FBA board detects it.

BE Micro pin154 Normal condition : Low / Error case : High

- Check the harnessconnection of FAN.
- Check the Voltage at CN1301 on AAS board. (Low = Error , High = Normal)

Replace the FAN.

7) Balancer Error (RED 13 times blink)

This indicates Inverter board error of panel module.
BE micro pin163 on FBA board detects it.

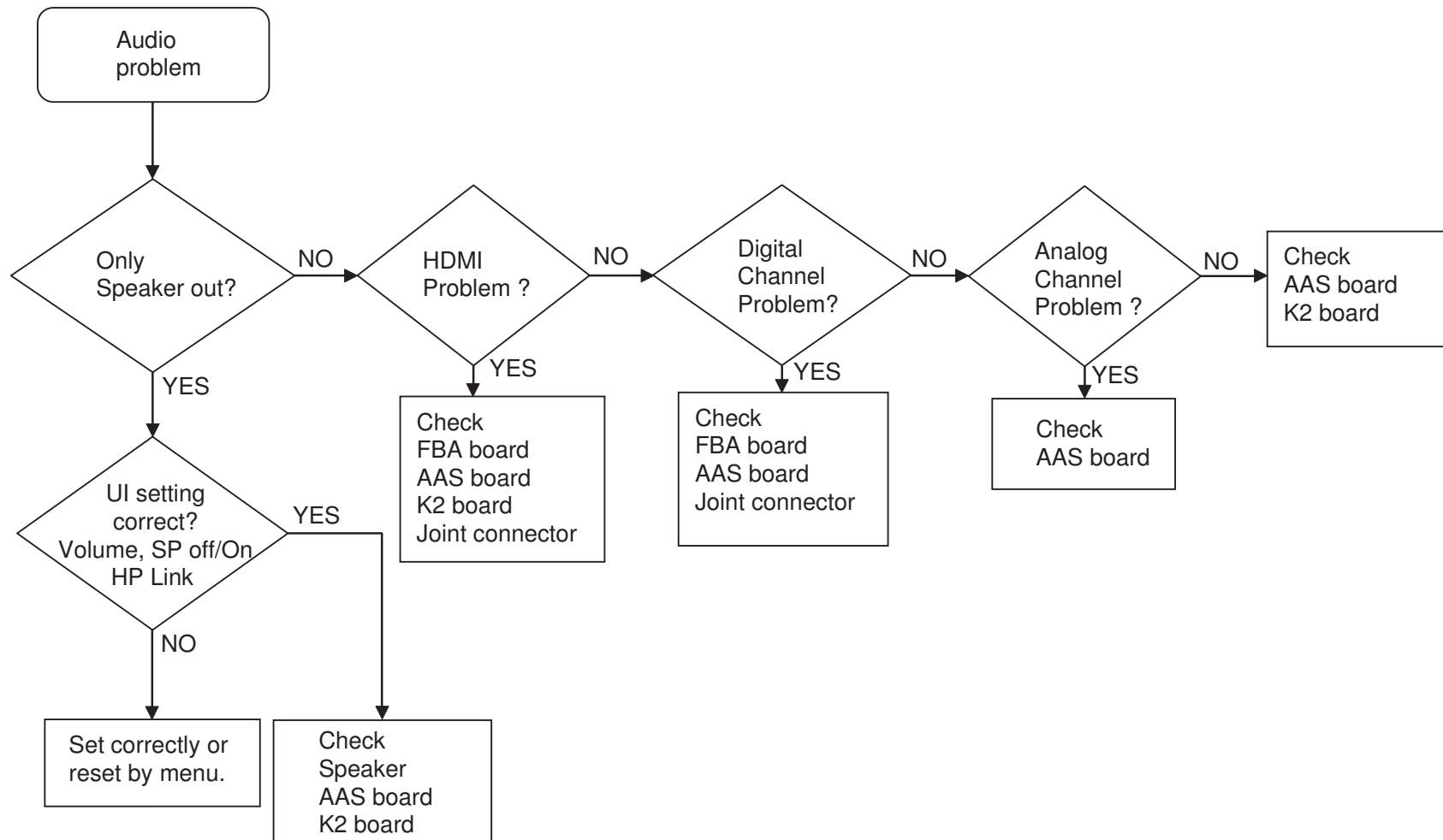
BE Micro pin163 Normal condition : High / Error case : Low

40": Check harness connection between CN6706 on D4 board and CN104 on inverter board of panel module.

46", 55": Check harness connection between CN 9700, 9701 on CB1 board and panel module.

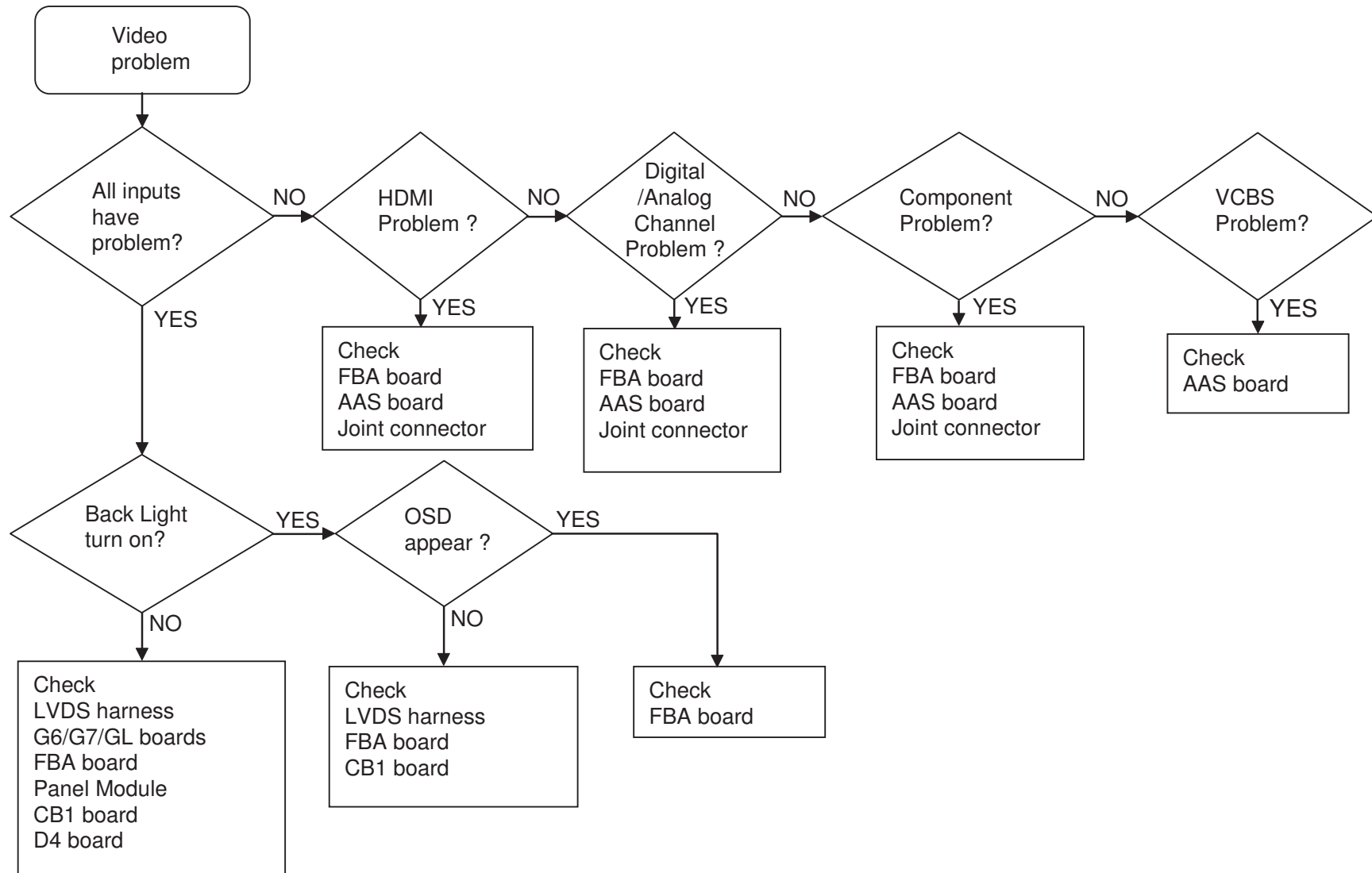
2-2-4. AUDIO PROBLEM (Chart D)

Here is trouble shooting flow related audio

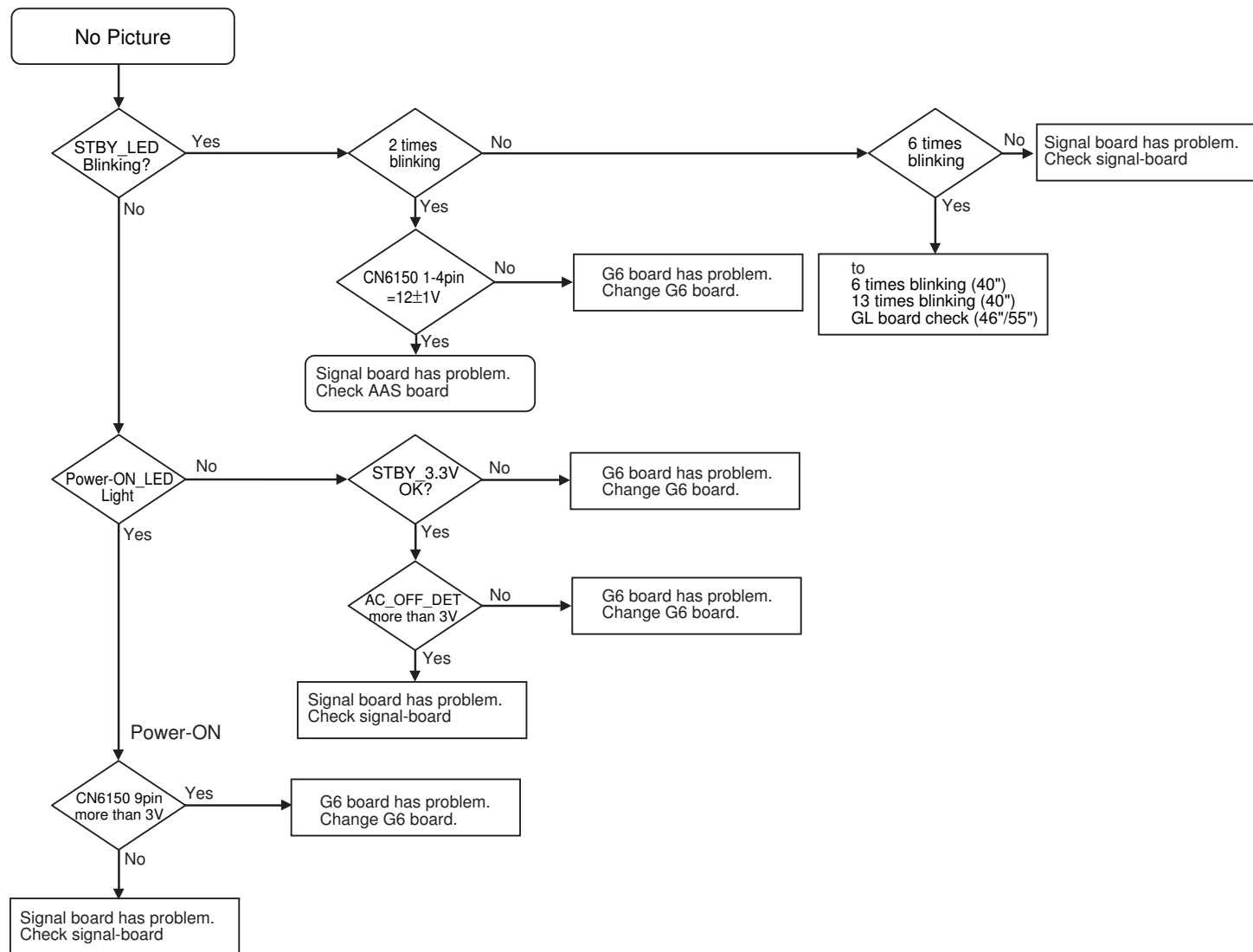


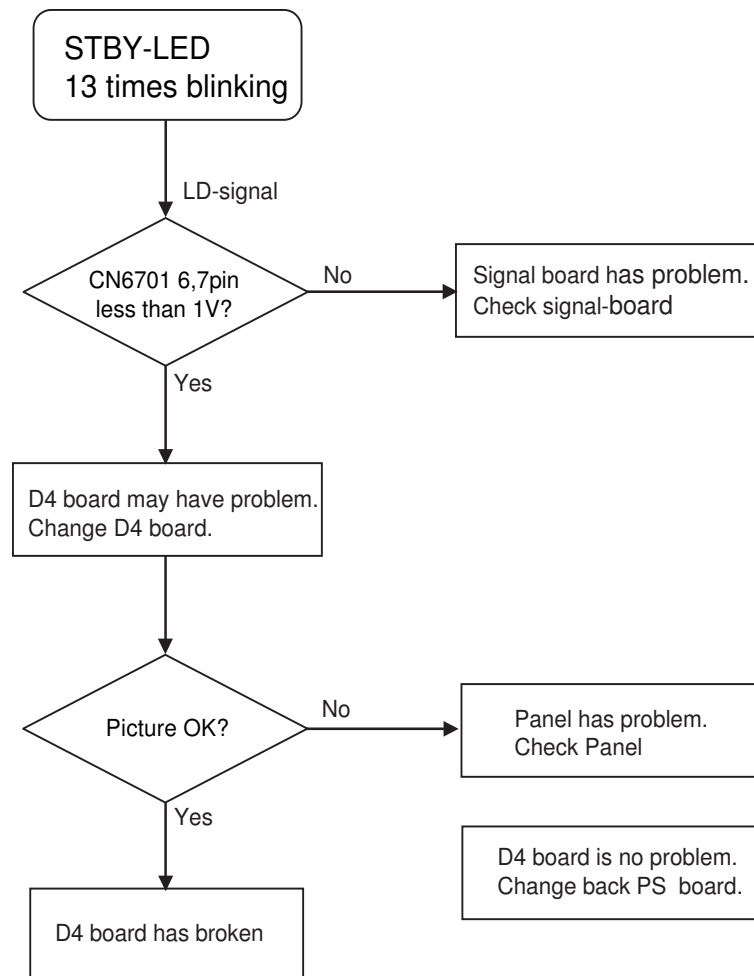
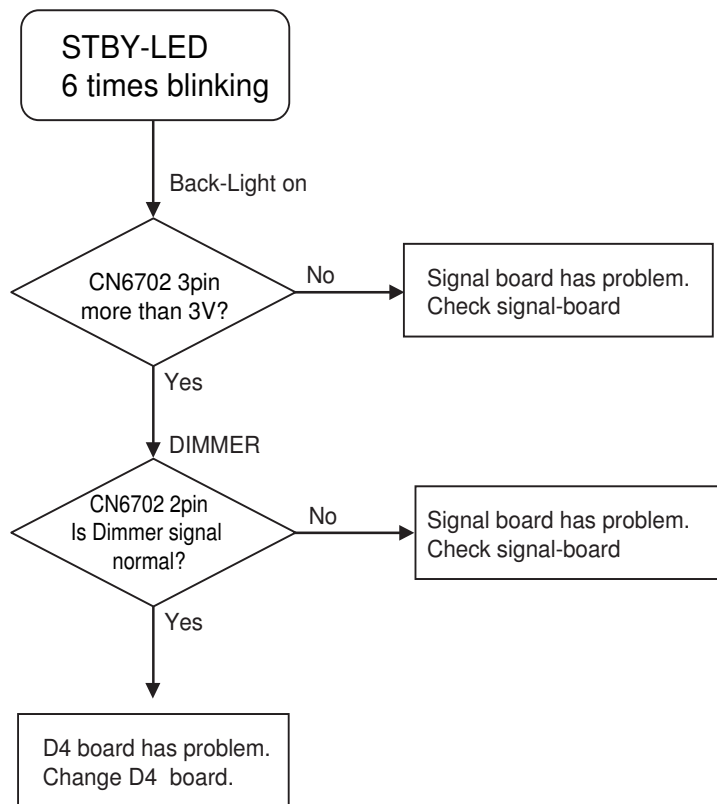
2-2-5. VIDEO PROBLEM (Chart E)

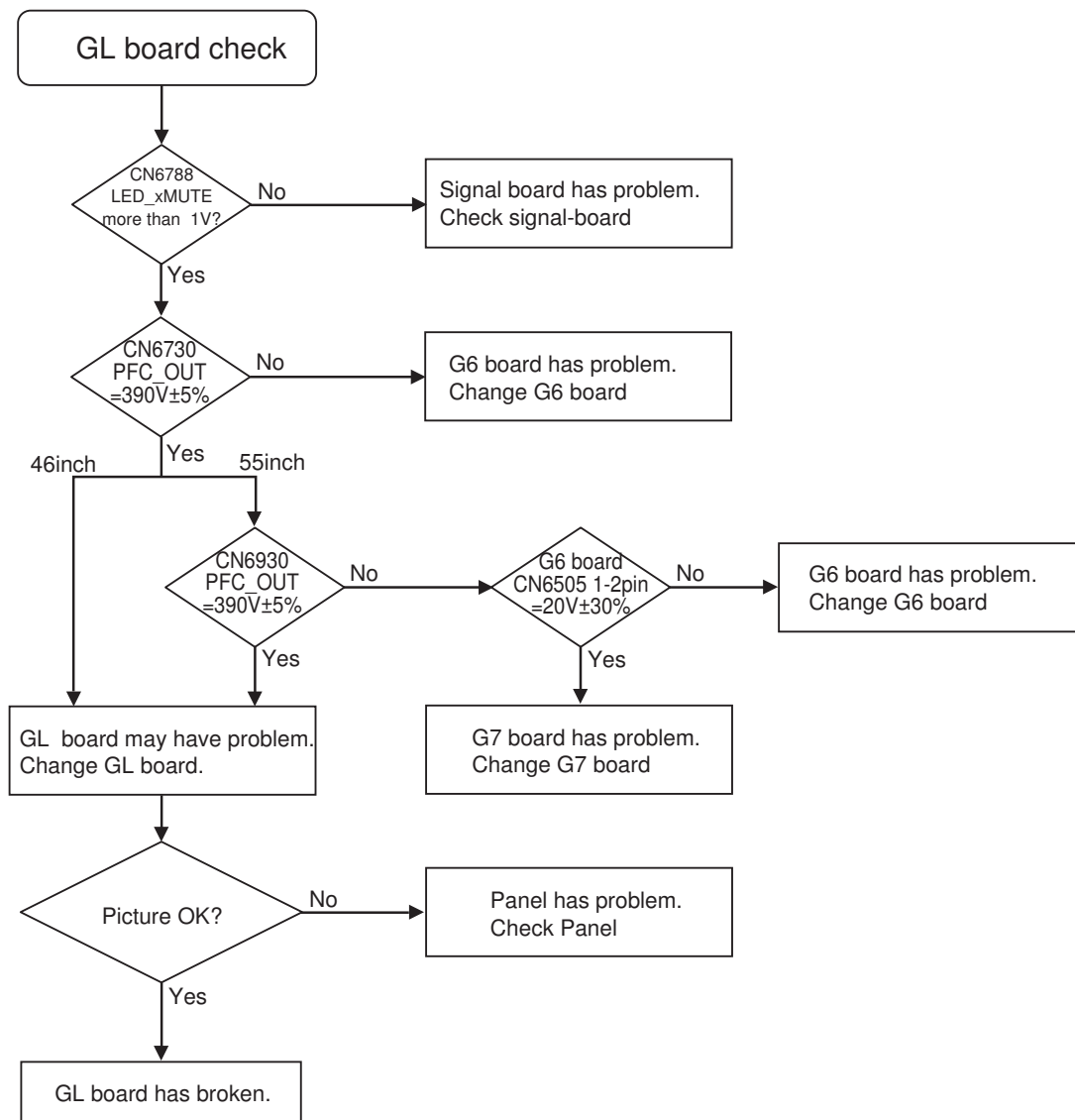
Here is trouble shooting flow related Video



2-2-6. NO PICTURE

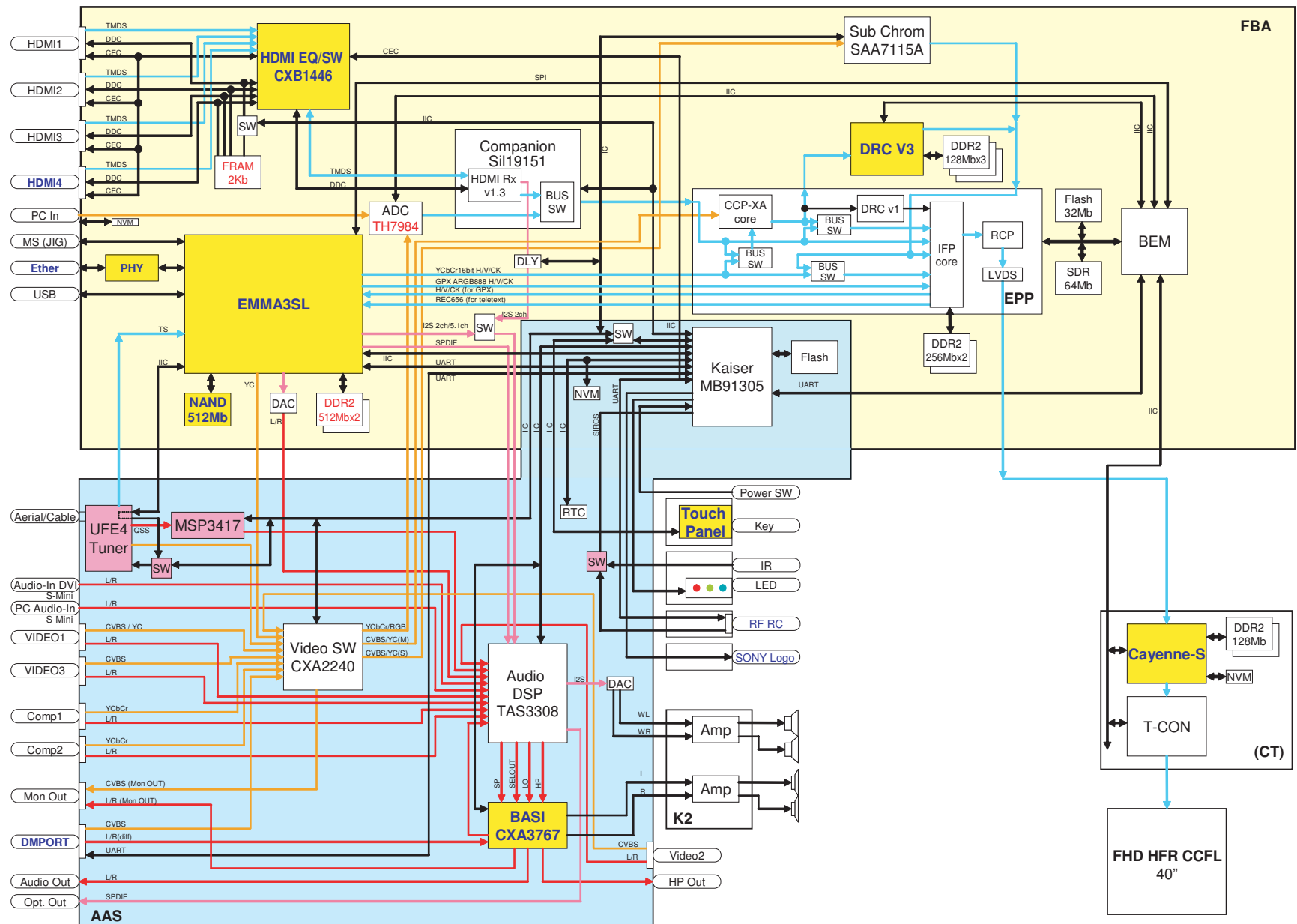






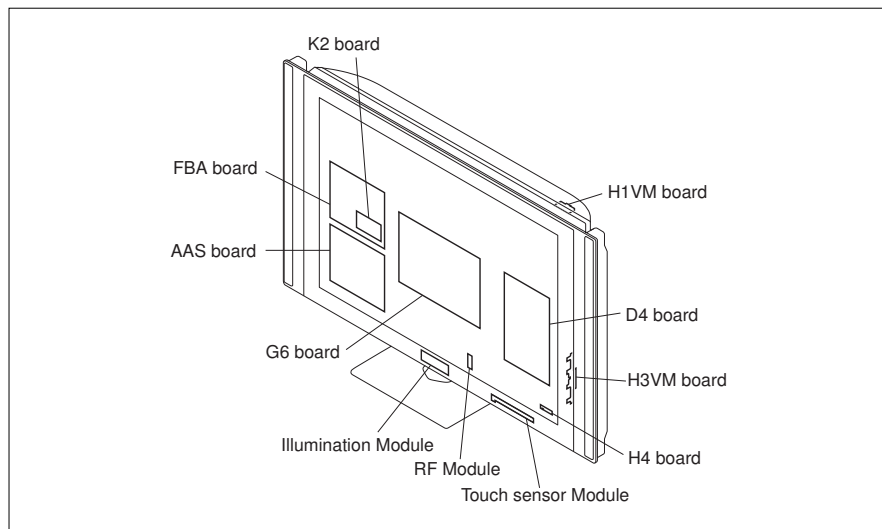
SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM

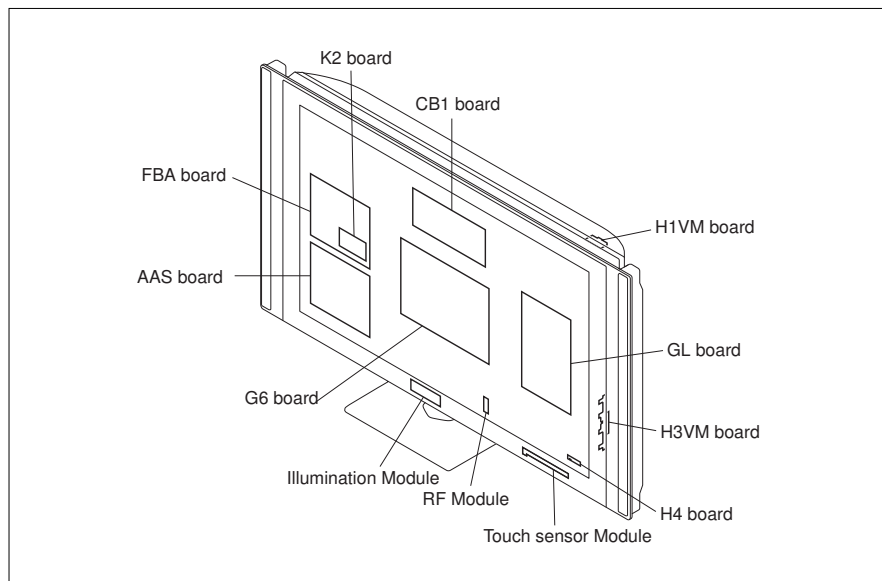


3-2. CIRCUIT BOARDS LOCATION

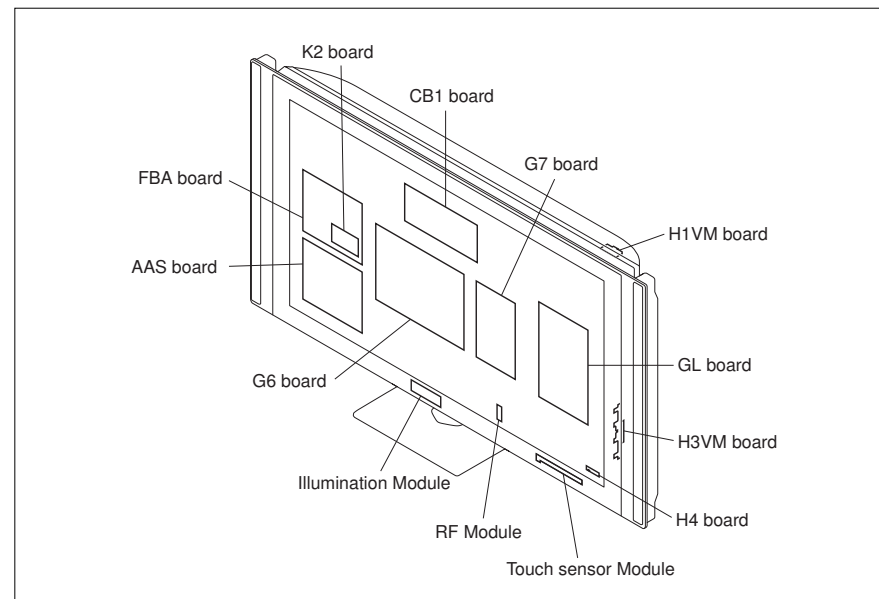
(1) KDL-40XBR45/40X4500



(2) KDL-46XBR45/46X4500



(3) KDL-55XBR45/55X4500



SECTION 4

EXPLODED VIEWS

NOTE:

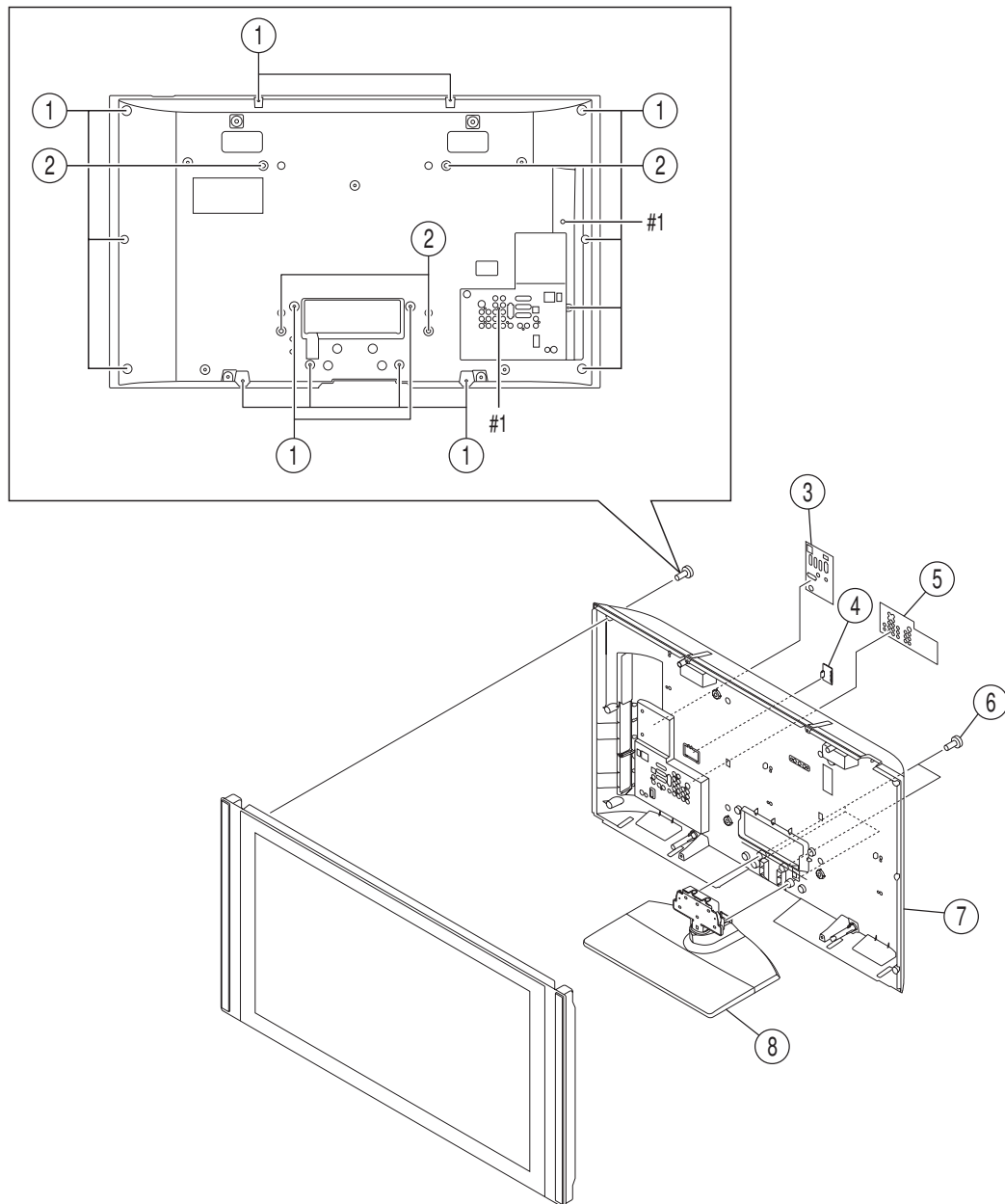
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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

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

4-1. KDL-40XBR45/40X4500

4-1-1. REAR COVER AND STAND ASSY

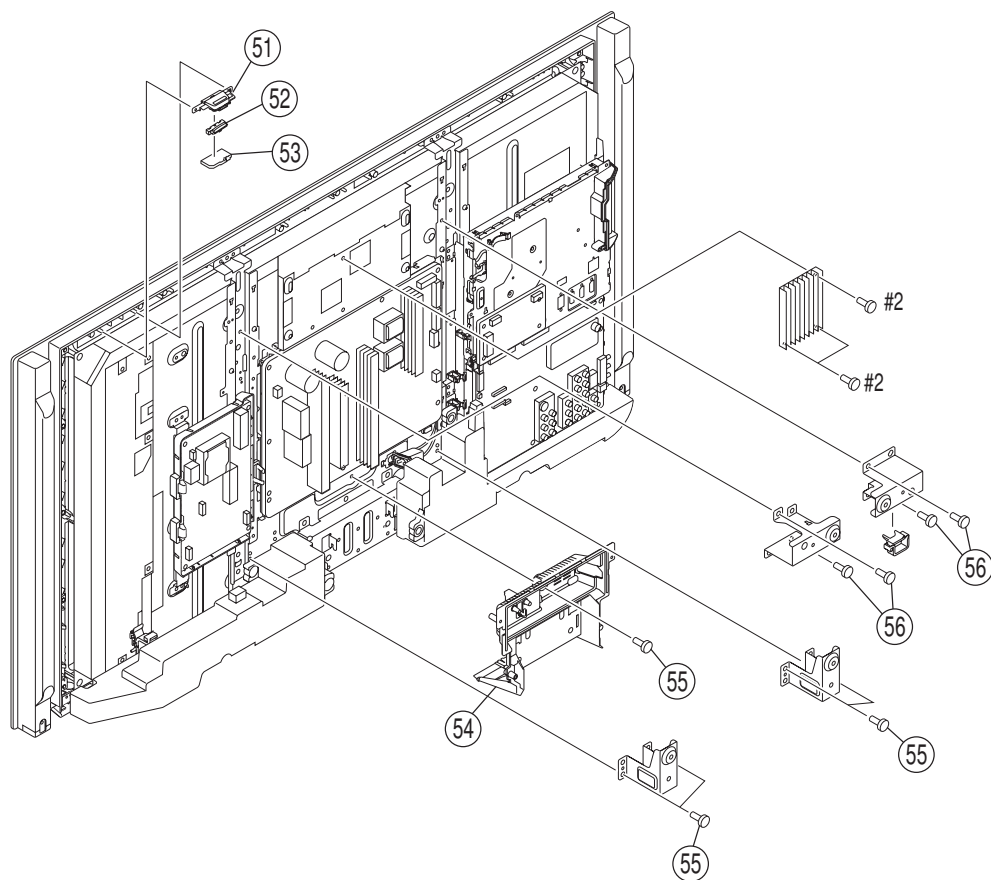


REF. No.	PART No.	DESCRIPTION	MARK
1	2-580-640-01	SCREW, +BVTP2 4X16	
2	2-580-606-01	SCREW, +PSW M5X8	
3	3-300-711-31	LABEL, HDMI	
4	3-094-483-11	COVER, ECS	
5	3-300-710-21	LABEL, REAR TERMINAL	

REF. No.	PART No.	DESCRIPTION	MARK
6	2-580-608-01	SCREW, +PSW M5X16	
7	△ 3-296-655-01	REAR COVER (40)	
8	X-2189-924-1	STAND ASSY (ML-4)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-40XBR45/40X4500

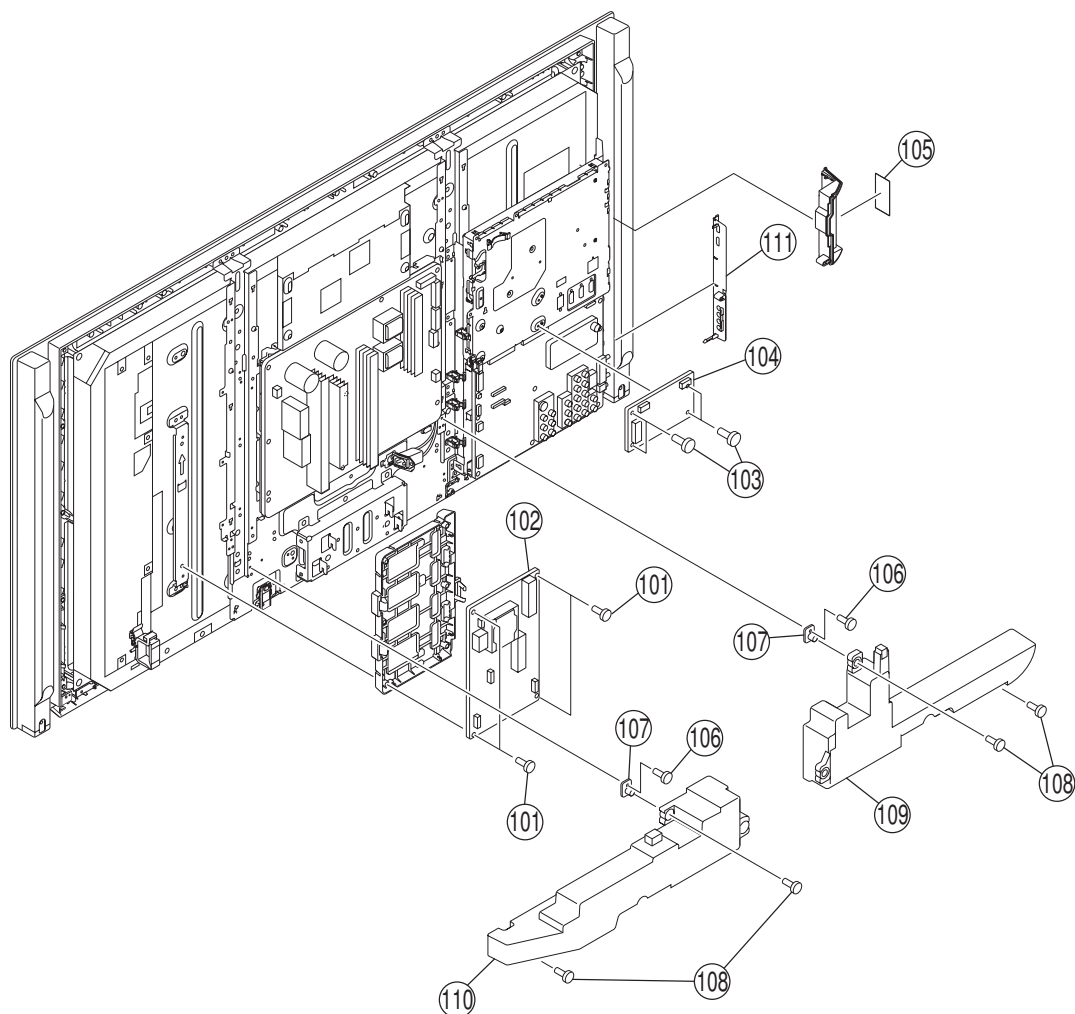
4-1-2. H1VM BOARD AND UNDER COVER



REF. No.	PART No.	DESCRIPTION	MARK
51	* 3-293-095-11	BRACKET, POWER	
52	3-293-094-01	BUTTON, POWER	
53	A-1510-339-A	H1VM MOUNT	
54	△ 3-293-125-21	COVER, UNDER (40)	
55	2-580-600-01	SCREW, +PSW M4X8	

REF. No.	PART No.	DESCRIPTION	MARK
56	2-580-606-01	SCREW, +PSW M5X8	
#2	7-682-948-01	SCREW +PSW 3X8	

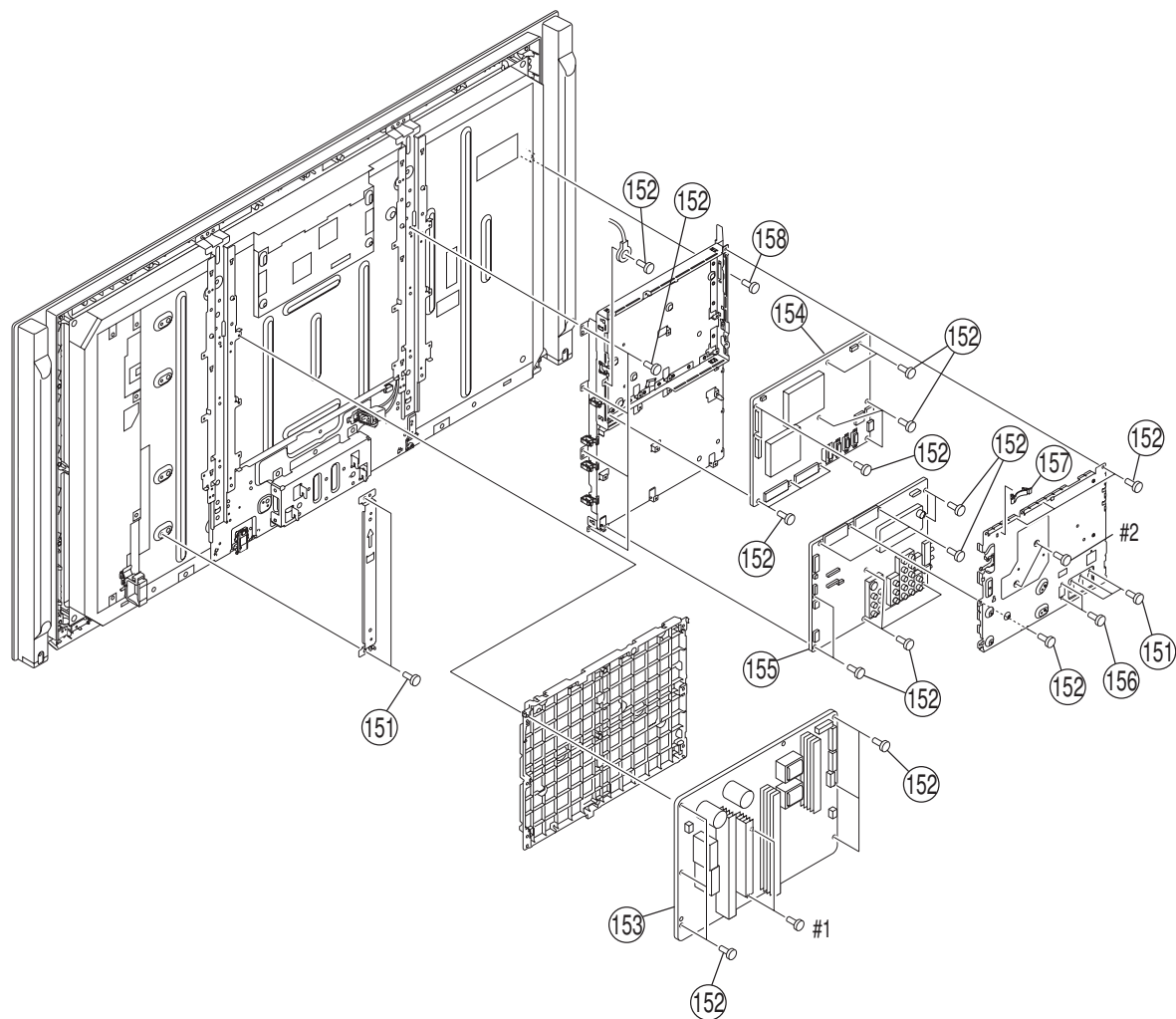
KDL-40XBR45/40X4500
4-1-3. D4 AND K2 BOARDS



REF. No.	PART No.	DESCRIPTION	MARK
101	2-674-965-51	SCREW, +PSW 3SG	
102	▲ A-1553-205-A	D4 COMPL	
103	2-580-590-01	SCREW, +PSW M3X5	
104	A-1543-151-C	K2 MOUNT	
105	3-284-296-01	COVER, MS	

REF. No.	PART No.	DESCRIPTION	MARK
106	2-580-629-01	SCREW, +BVST 3X8	
107	3-299-098-01	BRACKET, AWF (S)	
108	2-580-654-01	SCREW, +PWTP2 4X16	
109	1-826-965-11	SP BOX ASSY (WOOFER)	
110	1-826-965-21	SP BOX ASSY (WOOFER)	
111	* 3-284-290-71	BRACKET, SIDE JACK (AEJ)	

KDL-40XBR45/40X4500
4-1-4. FBA, AAS AND G6 BOARDS

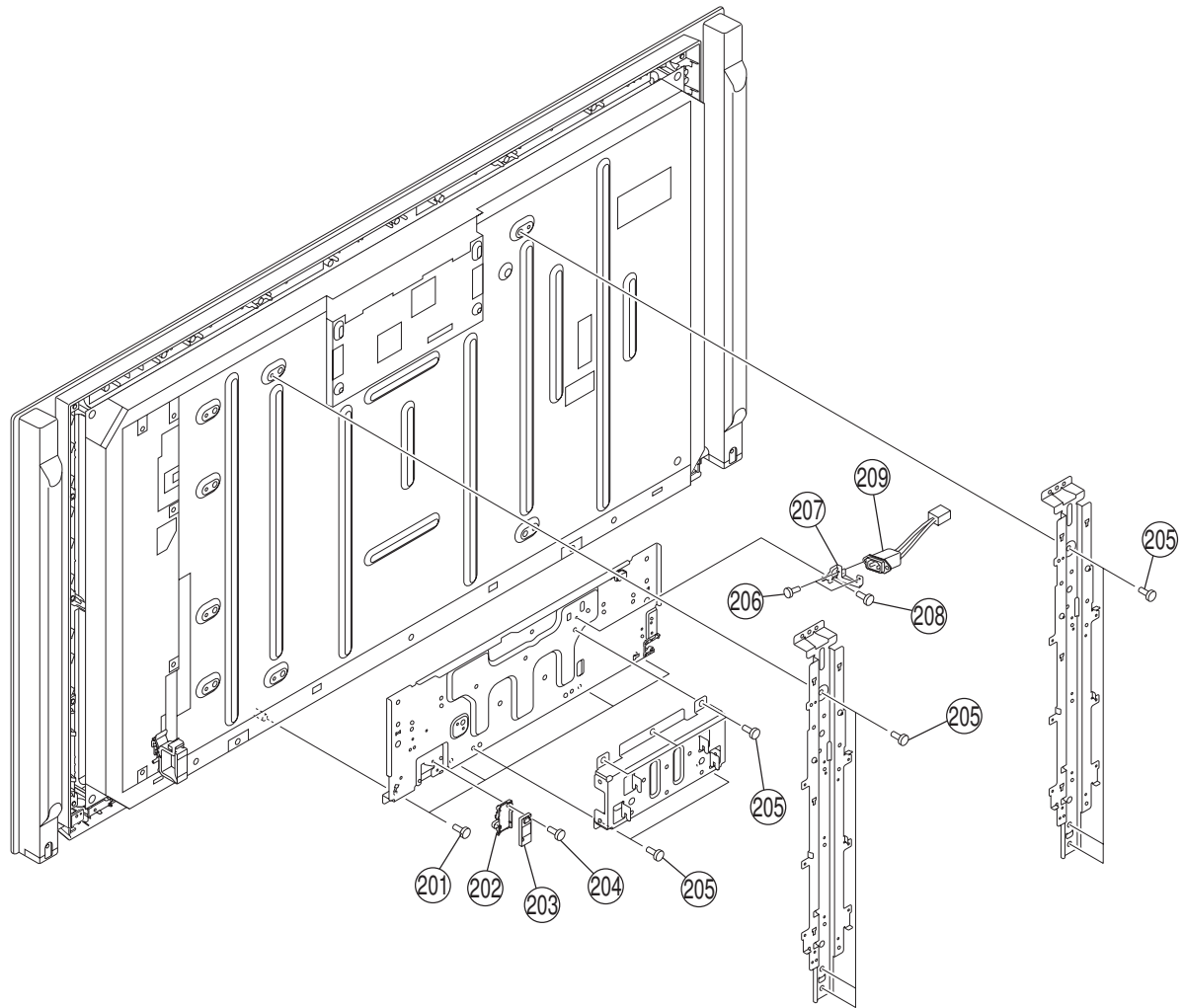


REF. No.	PART No.	DESCRIPTION	MARK
151	2-580-590-01	SCREW , +PSW M3X5	
152	2-580-629-01	SCREW, +BVST 3X8	
153	 A-1552-097-B	G6 COMPL	
154	 A-1568-321-A	FBA MOUNT	
155	 A-1568-316-A	AAS MOUNT	

REF. No.	PART No.	DESCRIPTION	MARK
156	2-580-626-01	SCREW, SP 4-40 UNC	
157	3-080-039-01	CLAMP (FCR-15), FLAT\	
158	2-580-640-01	SCREW, +BVTP2 4X16	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-40XBR45/40X4500

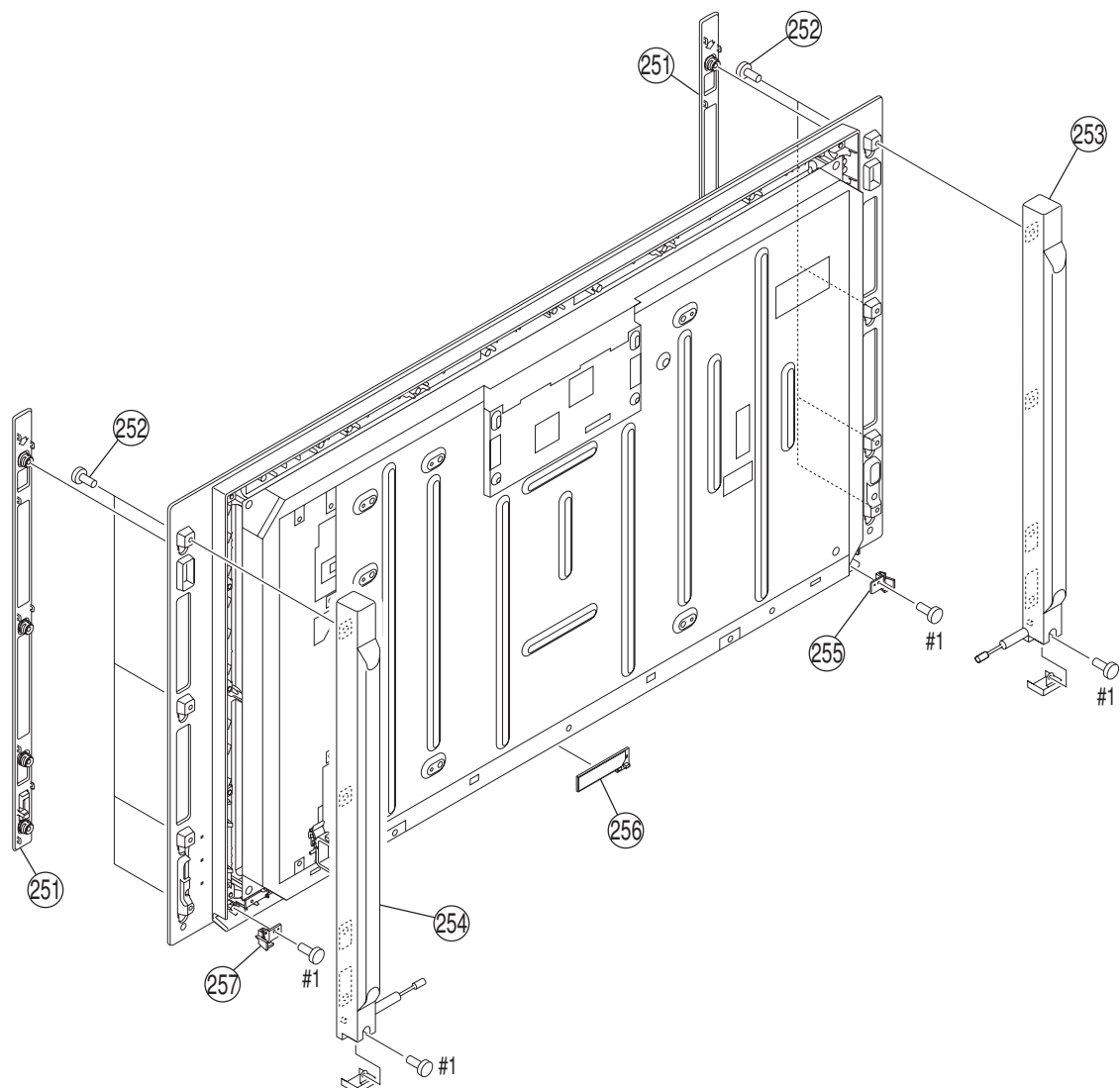
4-1-5. AC INLET AND RF MODULE



REF. No.	PART No.	DESCRIPTION	MARK
201	2-580-640-01	SCREW, +BVTP2 4X16	
202	* 4-105-347-01	BRACKET, RF	
203	△ 1-480-915-12	RF MODULE	
204	2-580-590-01	SCREW, +PSW M3X5	
205	2-580-600-01	SCREW, +PSW M4X8	

REF. No.	PART No.	DESCRIPTION	MARK
206	2-596-649-01	+KTT 3X10 (S TYPE)	
207	3-284-411-01	AC INLET BRACKET	
208	2-580-629-01	SCREW, +BVST 3X8	
209	△ 1-822-147-11	AC INLET	

KDL-40XBR45/40X4500
4-1-6. SPEAKER AND GRILLE

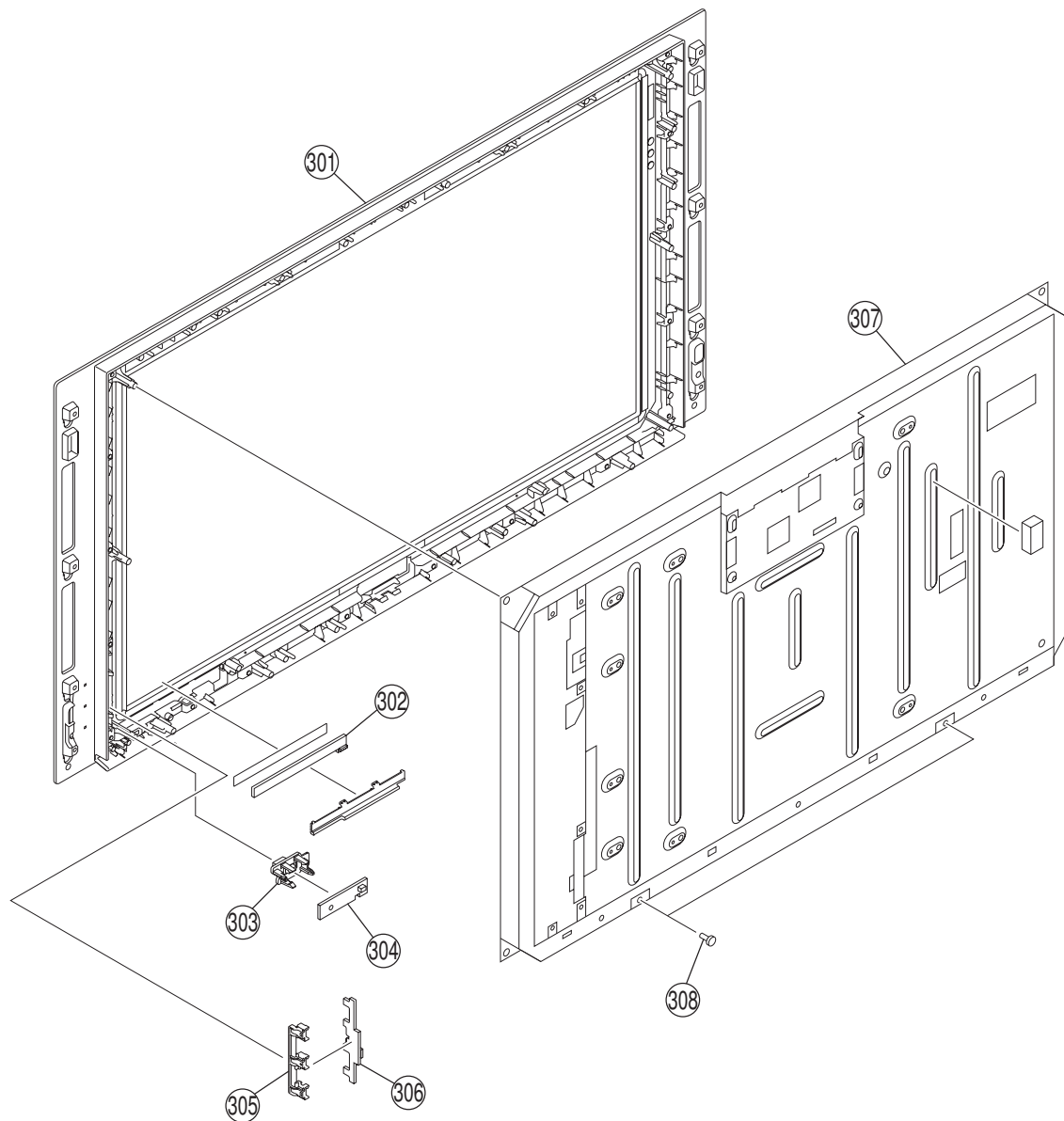


REF. No.	PART No.	DESCRIPTION	MARK
251	X-2190-480-2	GRILLE (40 S) ASSY (Silver)	
	X-2190-481-2	GRILLE (40 N) ASSY (Gold)	
	X-2190-482-2	GRILLE (40 T) ASSY (Brown)	
	X-2190-483-2	GRILLE (40 B) ASSY (Black)	
	X-2190-484-2	GRILLE (40 R) ASSY (Red)	
252	2-580-640-01	SCREW, +BVTP2 4X16	
253	1-826-972-11	SP BOX ASSY	
254	1-826-972-21	SP BOX ASSY	
255	X-2319-159-1	COVER CABINET L ASSY	

REF. No.	PART No.	DESCRIPTION	MARK
256	1-480-680-11	ILLUMINATION MODULE	
257	X-2319-158-1	COVER CABINET R ASSY	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-40XBR45/40X4500

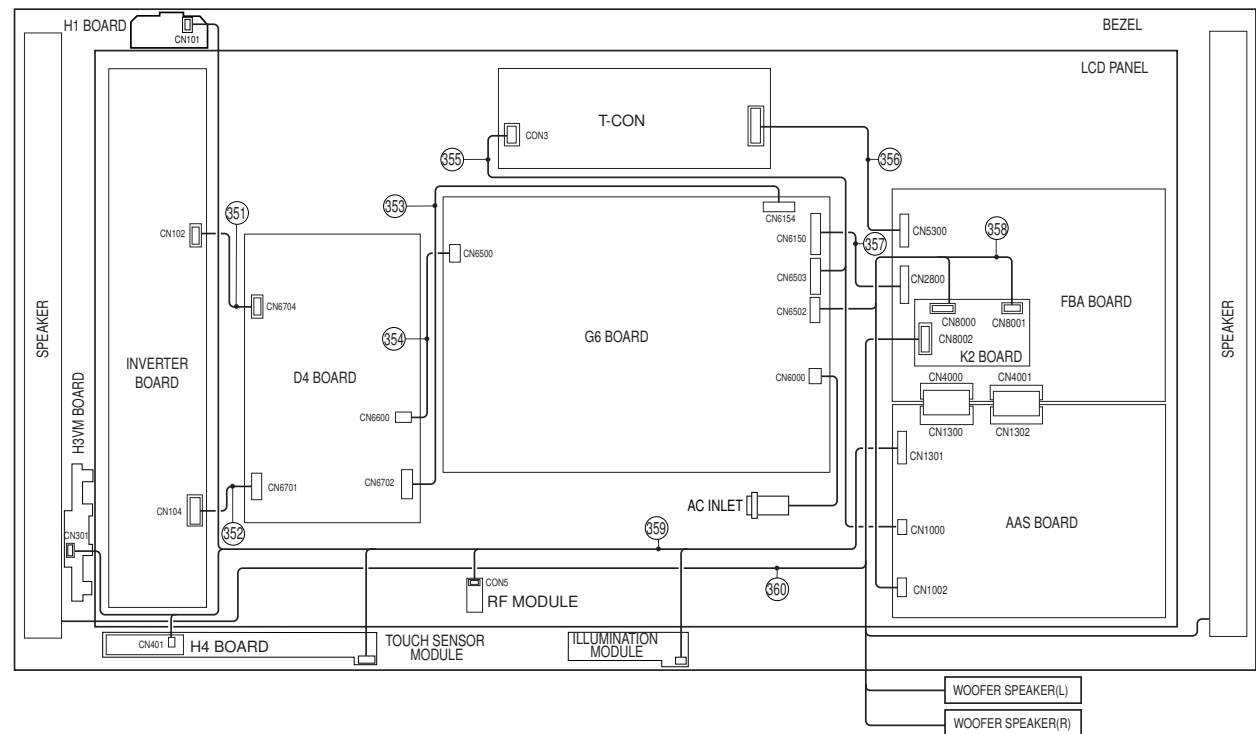
4-1-7. LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
301	△ X-2319-156-1	BEZEL (40) ASSY (Australian)	
	△ X-2319-178-1	BEZEL (40) ASSY (New Zealand, Singapore)	
302	1-798-150-11	TOUCH SENSOR MODULE	
303	3-299-103-01	GUIDE LIGHT	
304	A-1510-341-A	H4 MOUNT	
305	3-876-205-01	BRACKET, LED	

REF. No.	PART No.	DESCRIPTION	MARK
306	A-1510-340-A	H3VM MOUNT	
307	△ 1-802-778-11	LCD PANEL (40 FHD TFT)	
308	2-580-640-01	SCREW, +BVTP2 4X16	

KDL-40XBR45/40X4500
4-1-8. CONNECTOR ASSY

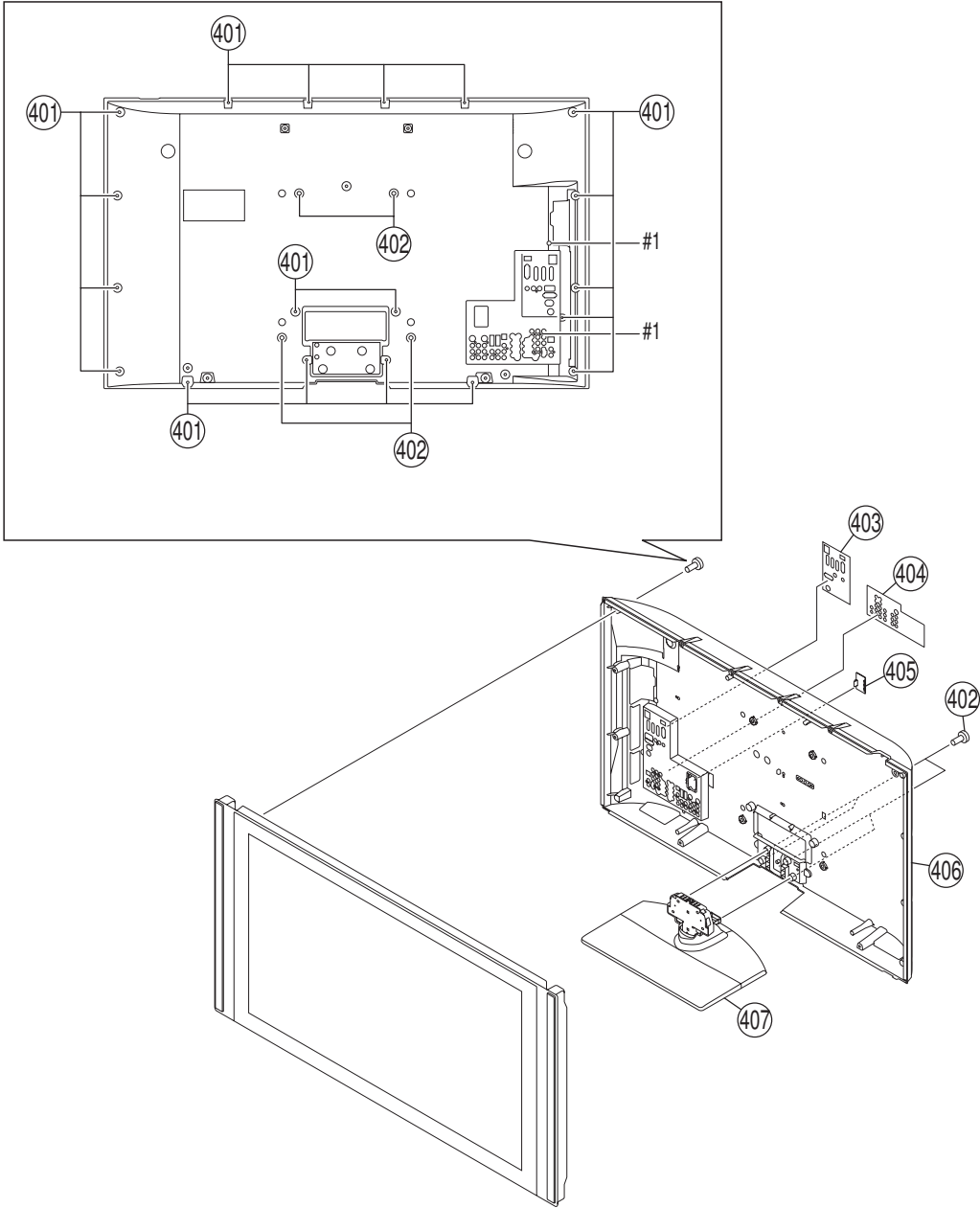


REF. No.	PART No.	DESCRIPTION	MARK
351	* 1-835-714-11	CONNECTOR ASSY, MDF61	
352	* 1-910-048-37	CONNECTOR ASSY (XA7P/H)	
353	* 1-910-048-32	CONNECTOR ASSY (XA8P)	
354	* 1-835-570-11	CONNECTOR ASSY	
355	* 1-910-049-76	CONNECTOR ASSY (XA12P)	

REF. No.	PART No.	DESCRIPTION	MARK
356	* 1-835-782-11	LEAD WIRE WITH CONNECTOR (LVDS)	
357	* 1-910-048-30	CONNECTOR ASSY (XA15P)	
358	* 1-910-049-95	CONNECTOR ASSY (GHDR20P/XA8P)	
359	* 1-910-049-93	CONNECTOR ASSY (GHDR40P-R)	
360	1-910-051-13	CONNECTOR ASSY (VH8P)	

4-2. KDL-46XBR45/46X4500

4-2-1. REAR COVER AND STAND ASSY

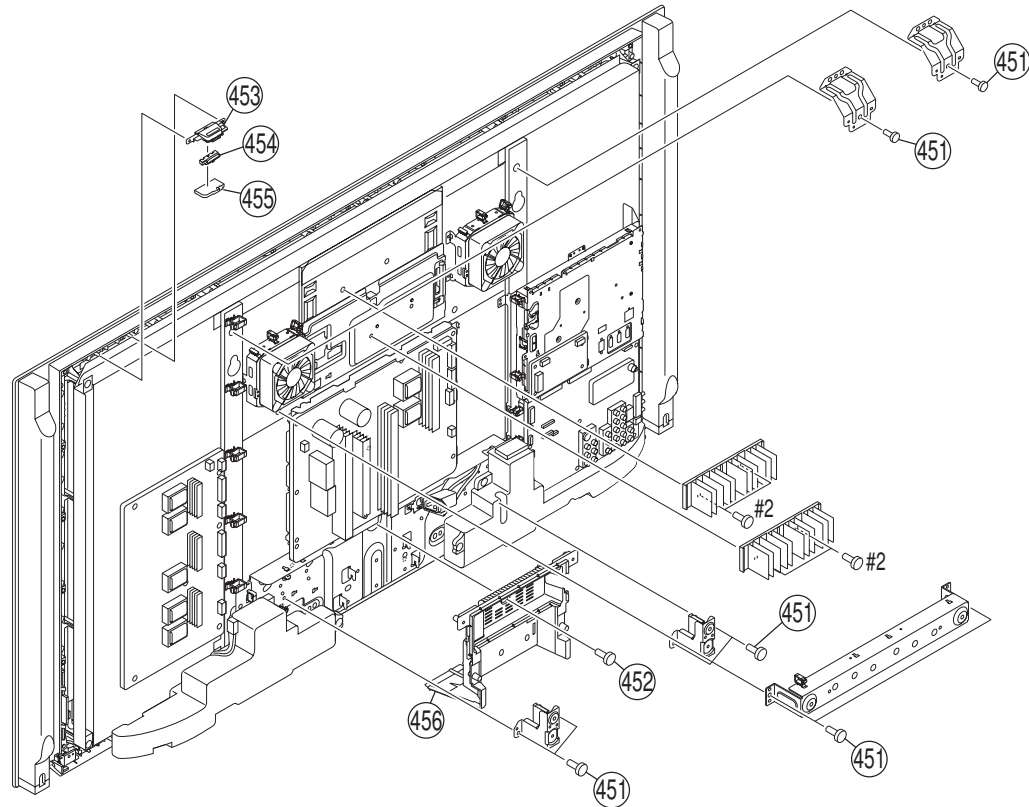


REF. No.	PART No.	DESCRIPTION	MARK
401	2-580-640-01	SCREW, +BVTP2 4X16	
402	2-580-608-01	SCREW, +PSW M5X16	
403	3-300-711-31	LABEL, HDMI	
404	3-300-710-21	LABEL, REAR TERMINAL	
405	3-094-483-11	COVER, ECS	

REF. No.	PART No.	DESCRIPTION	MARK
406	△ 3-299-083-12	REAR COVER (46Z)	
407	X-2189-897-1	STAND ASSY (L-4)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-46XBR45/46X4500

4-2-2. H1VM BOARD AND UNDER COVER

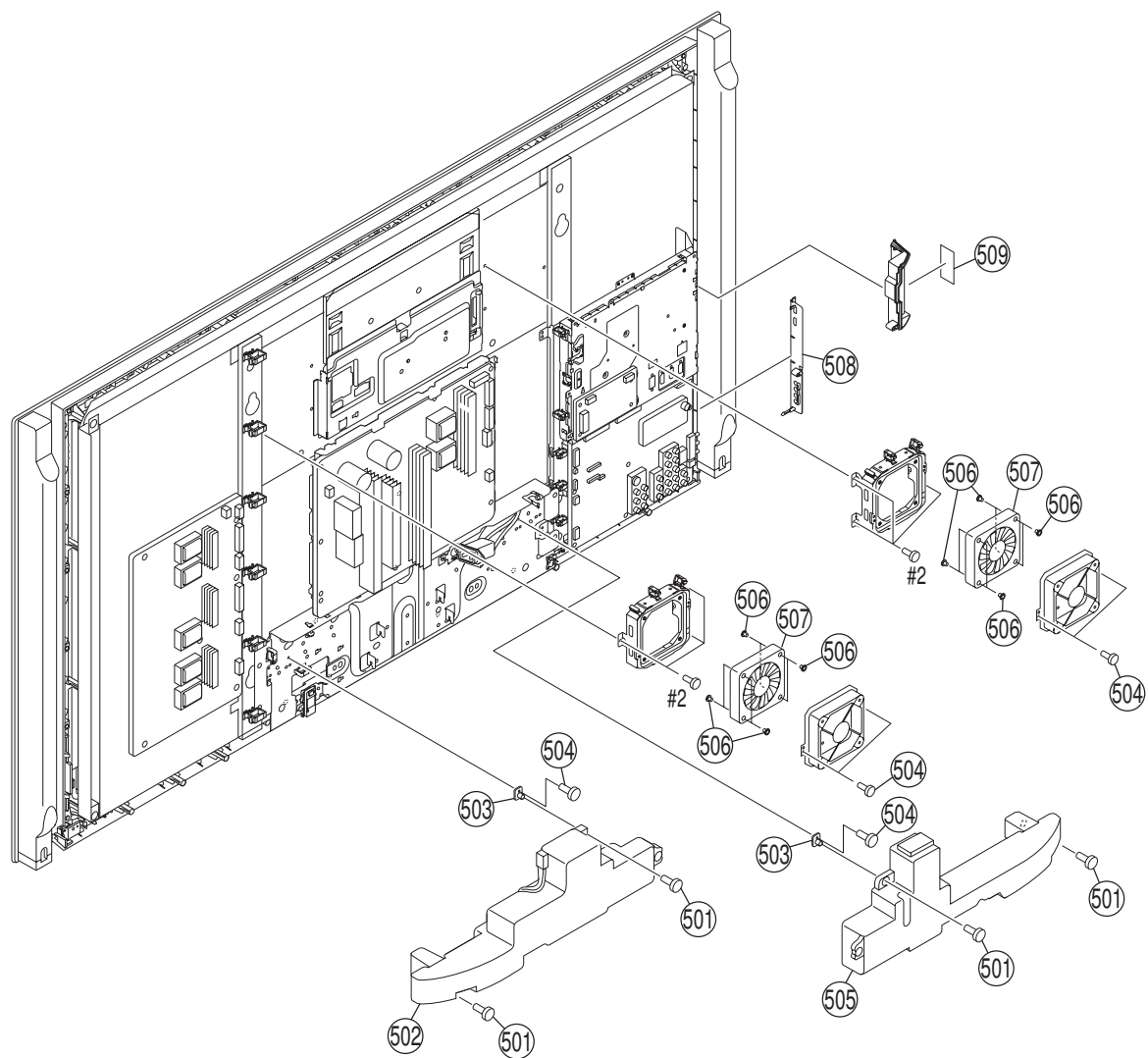


REF. No.	PART No.	DESCRIPTION	MARK
451	2-580-606-01	SCREW, +PSW M5X8	
452	2-580-608-01	SCREW, +PSW M5X16	
453	3-293-095-11	BRACKET, POWER	
454	3-293-094-01	BUTTON, POWER	
455	A-1510-339-A	H1VM MOUNT	

REF. No.	PART No.	DESCRIPTION	MARK
456	△ 3-299-095-02	COVER, UNDER (46Z)	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-46XBR45/46X4500

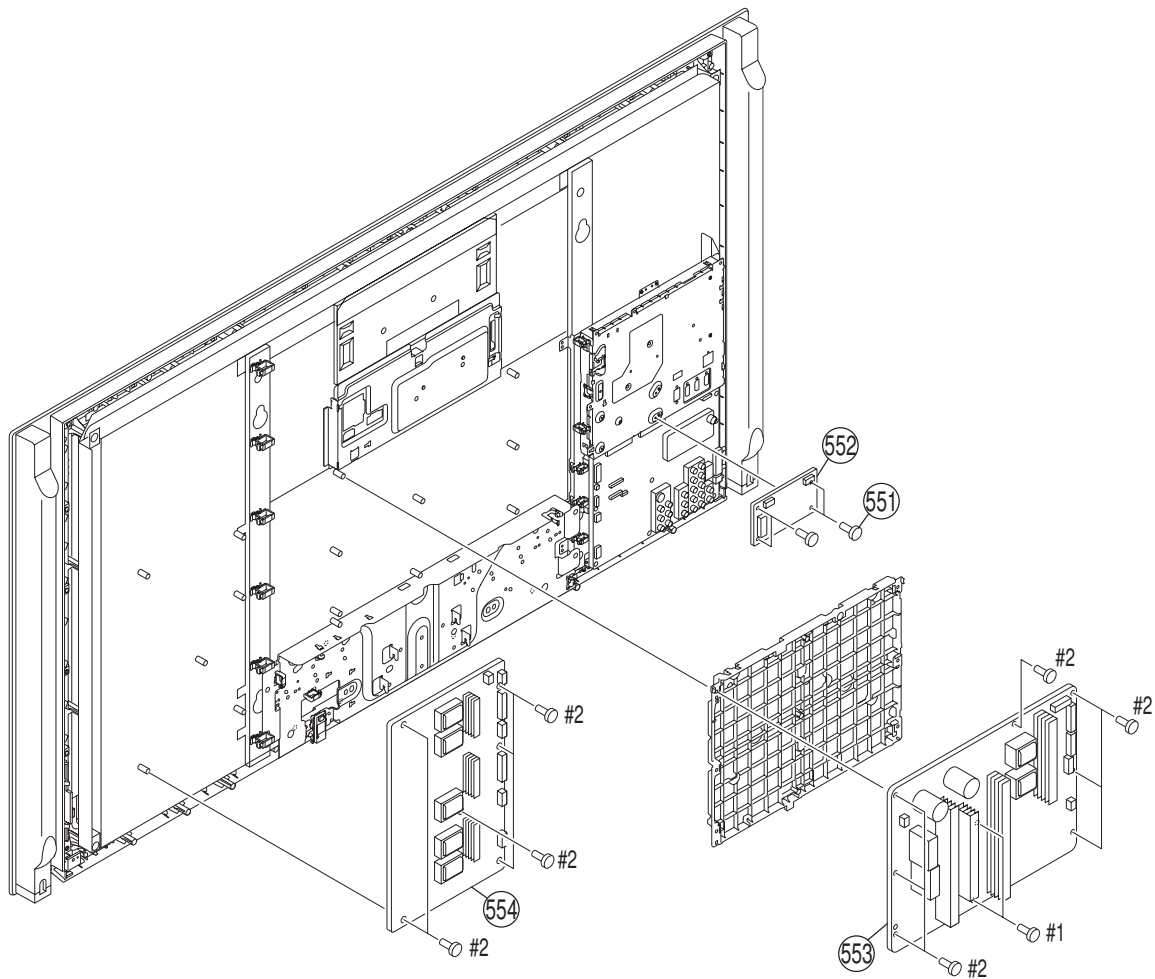
4-2-3. FAN AND WOOFER SPEAKER



REF. No.	PART No.	DESCRIPTION	MARK
501	2-580-654-01	SCREW, +PWTP2 4X16	
502	1-826-964-21	SP BOX ASSY (WOOFER)	
503	3-299-098-01	BRACKET, AWF (S)	
504	2-580-629-01	SCREW, +BVST 3X8	
505	1-826-964-11	SP BOX ASSY (WOOFER)	

REF. No.	PART No.	DESCRIPTION	MARK
506	2-059-414-21	DAMPER, FAN	
507	1-787-333-11	D.C. FAN	
508	3-284-290-71	BRACKET, SIDE JACK (AEJ)	
509	3-284-296-01	COVER, MS	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-46XBR45/46X4500
4-2-4. G6, GL AND K2 BOARDS

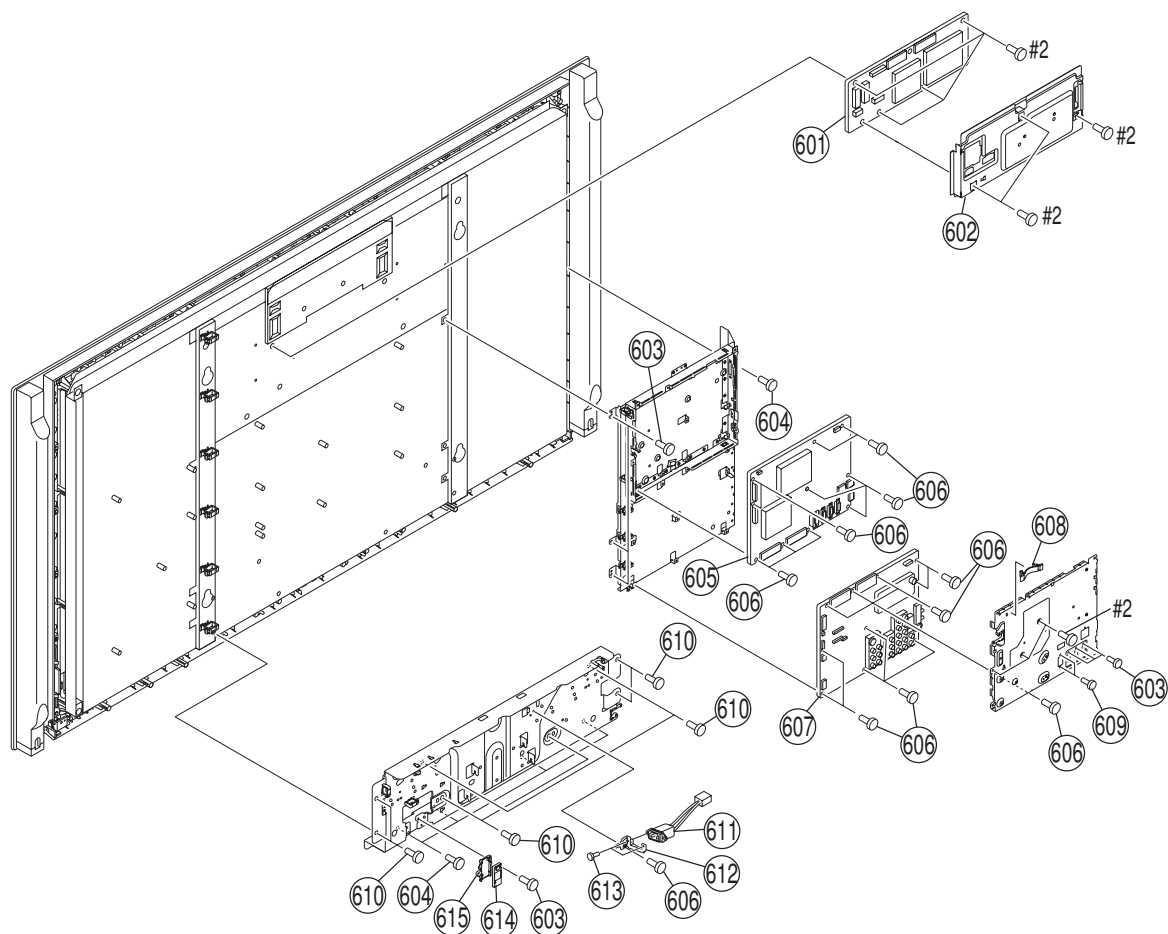


REF. No.	PART No.	DESCRIPTION	MARK
551	2-580-590-01	SCREW , +PSW M3X5	
552	A-1543-151-C	K2 MOUNT	
553	△ A-1552-101-B	G6 COMPL	
554	△ A-1553-199-A	GL COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-46XBR45/46X4500

4-2-5. AAS, CB1 AND FBA BOARDS

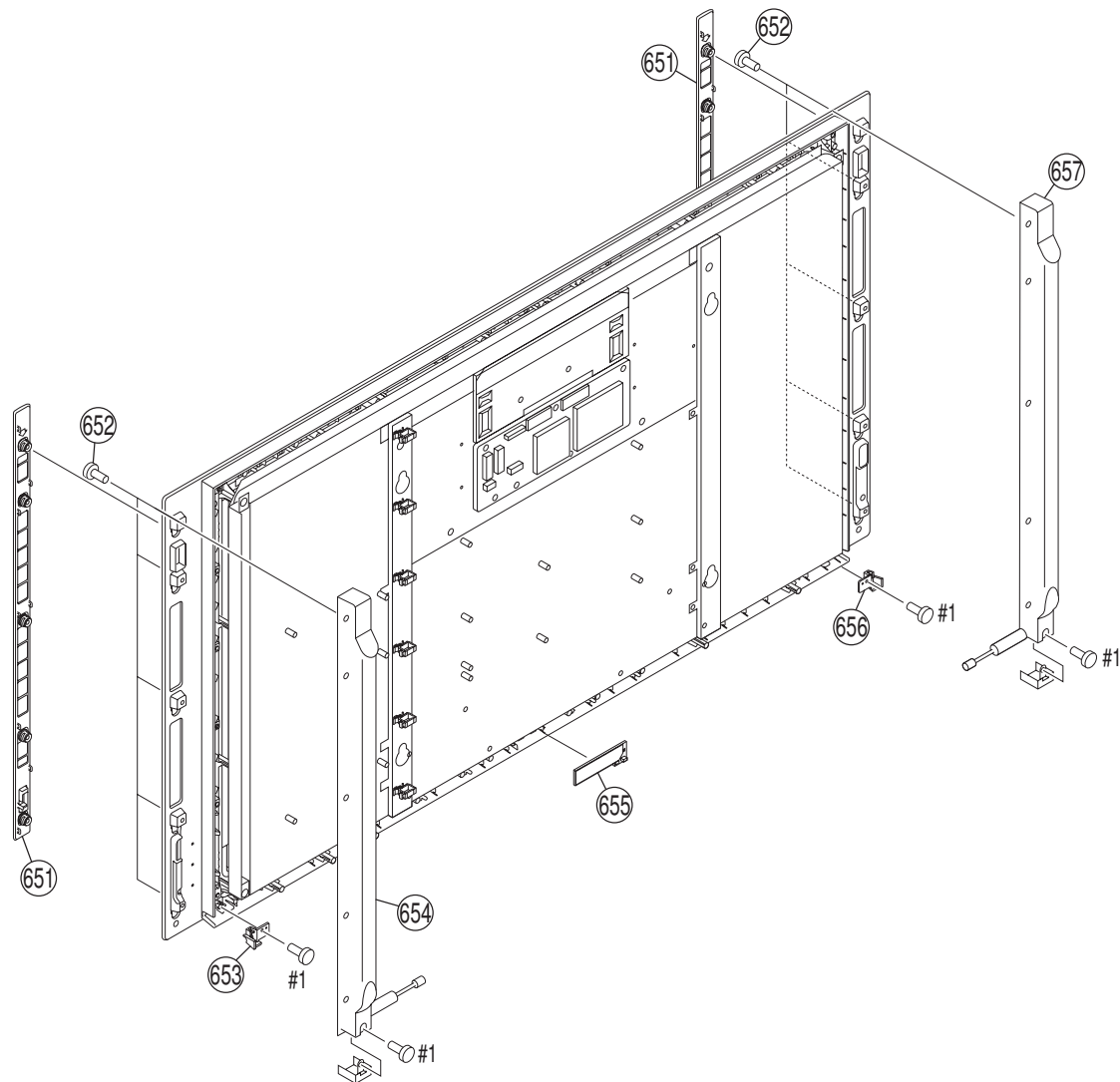


The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
601	A-1557-693-A	CB1 COMPL	
602	X-2319-533-1	SHIELD, CB ASSY	
603	2-580-590-01	SCREW, +PSW M3X5	
604	2-580-640-01	SCREW, +BVTP2 4X16	
605	 A-1568-321-A	FBA COMPL	
606	2-580-629-01	SCREW, +BVST 3X8	
607	 A-1568-316-A	AAS COMPL	
608	3-080-039-01	CLAMP (FCR-15), FLAT	
609	2-580-626-01	SCREW, SP 4-40 UNC	
610	2-580-606-01	SCREW, +PSW M5X8	

REF. No.	PART No.	DESCRIPTION	MARK
611	 1-822-147-11	AC INLET	
612	3-284-411-01	AC INLET BRACKET	
613	2-596-649-01	+KTT 3X10 (S TYPE)	
614	 1-480-915-12	RF MODULE	
615	* 4-105-347-01	BRACKET, RF	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-46XBR45/46X4500
4-2-6. SPEAKER AND GRILLE

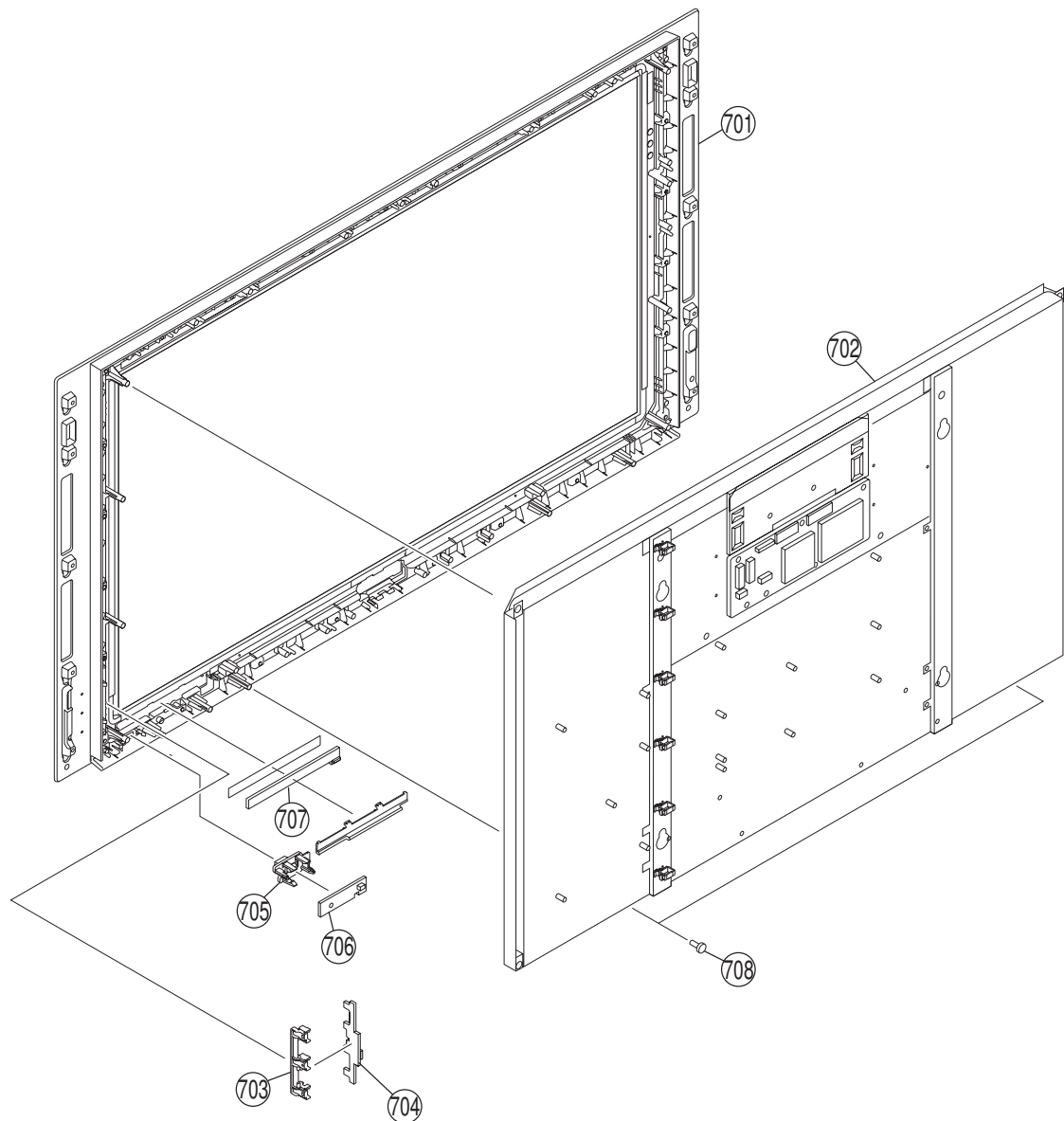


REF. No.	PART No.	DESCRIPTION	MARK
651	X-2190-485-2	GRILLE (46 S) ASSY (Silver)	
	X-2190-486-2	GRILLE (46 S) ASSY (Gold)	
	X-2190-487-2	GRILLE (46 S) ASSY (Brown)	
	X-2190-488-2	GRILLE (46 S) ASSY (Black)	
	X-2190-489-2	GRILLE (46 S) ASSY (Red)	
652	2-580-640-01	SCREW, +BVTP2 4X16	
653	X-2319-158-1	COVER CABINET R ASSY	
654	1-826-968-21	SP BOX ASSY	
655	1-480-680-11	ILLUMINATION MODULE	

REF. No.	PART No.	DESCRIPTION	MARK
656	X-2319-159-1	COVER CABINET L ASSY	
657	1-826-968-11	SP BOX ASSY	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-46XBR45/46X4500

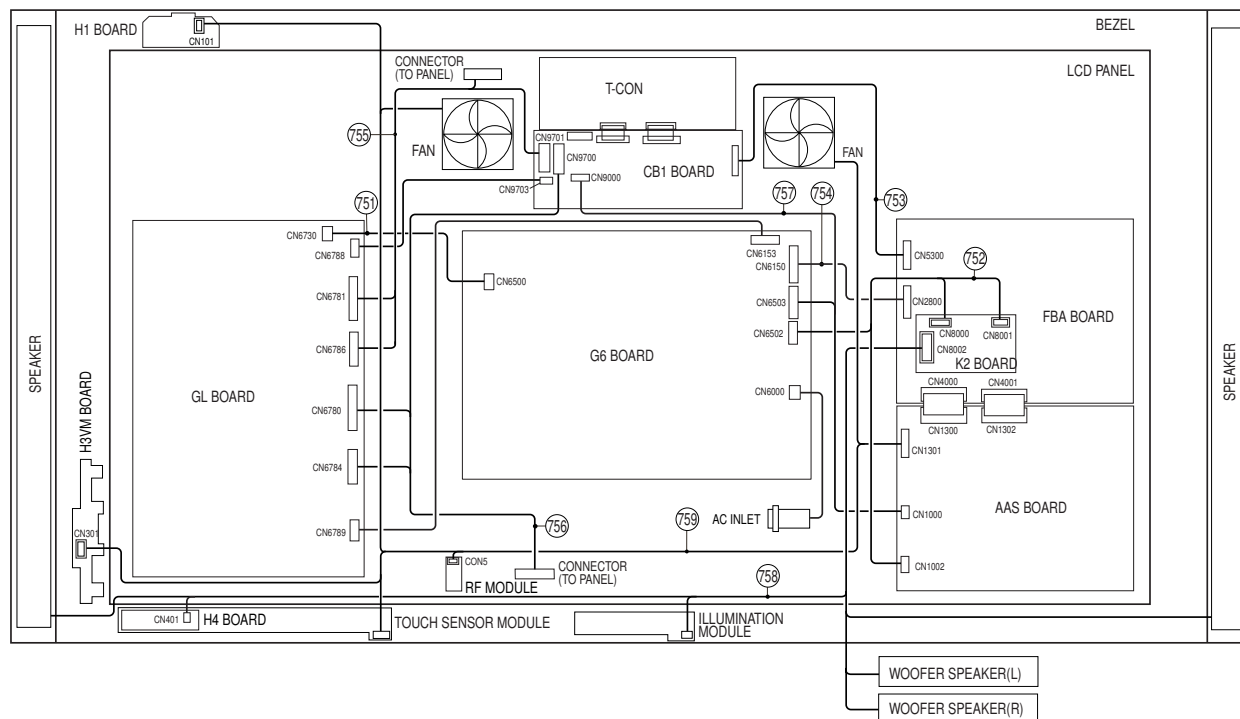
4-2-7. LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
701	△ X-2319-157-1	BEZEL (46) ASSY (Australian)	
	△ X-2319-179-1	BEZEL (46) ASSY (New Zealand, Singapore)	
702	△ A-1568-135-A	LCD PANEL (46 FHD TFT)	
703	3-876-205-01	BRACKET, LED	
704	A-1510-340-A	H3VM MOUNT	
705	3-299-103-01	GUIDE LIGHT	

REF. No.	PART No.	DESCRIPTION	MARK
706	A-1510-341-A	H4 MOUNT	
707	1-798-150-11	TOUCH SENSOR MODULE	
708	2-580-640-01	SCREW, +BVTP2 4X16	

KDL-46XBR45/46X4500
4-2-8. CONNECTOR ASSY

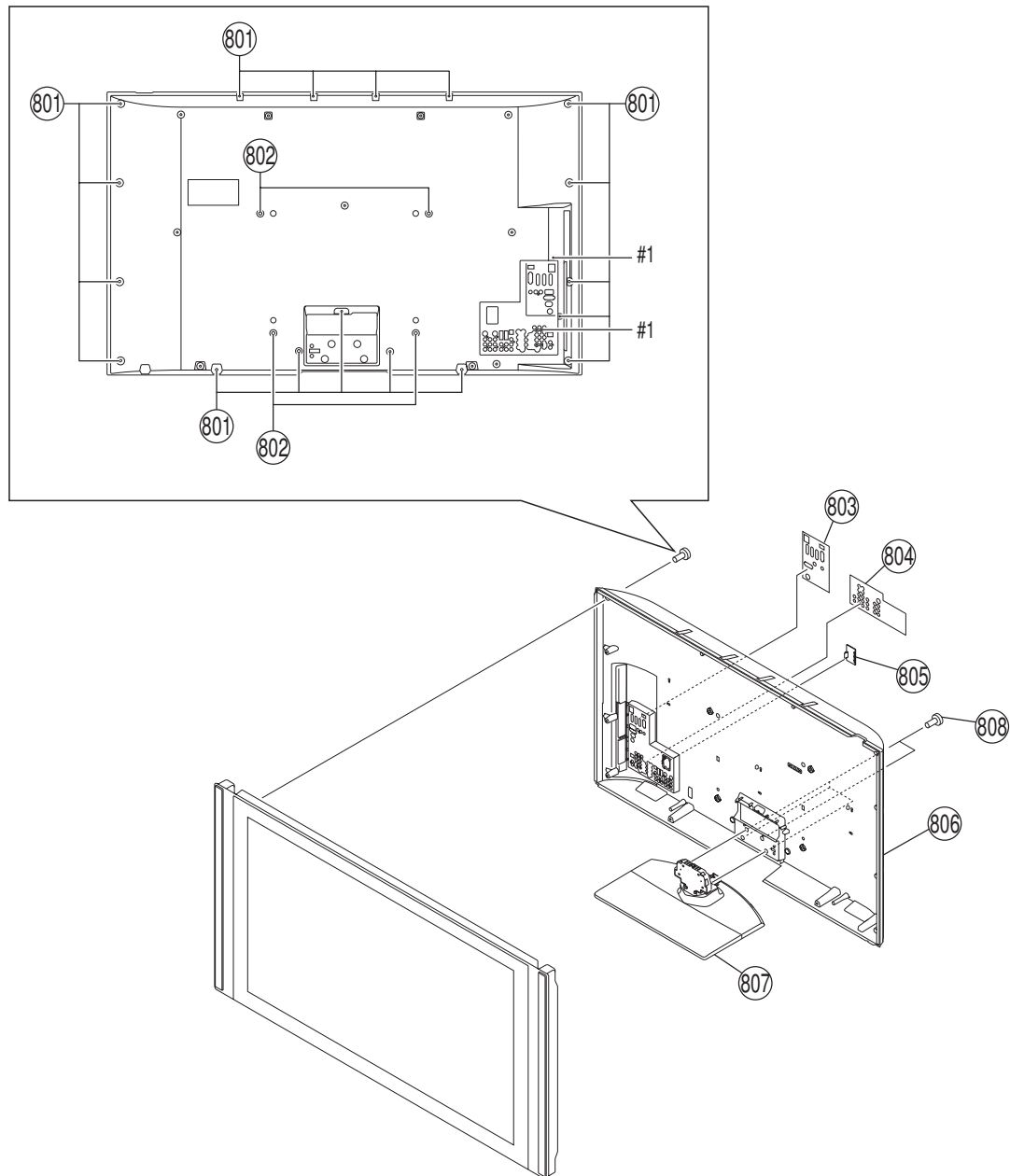


REF. No.	PART No.	DESCRIPTION	MARK
751	1-835-569-11	CONNECTOR ASSY	
752	* 1-910-050-52	CONNECTOR ASSY (GHDR20P/XA8P)	
753	1-835-784-11	LEAD WIRE WITH CONNECTOR (LVDS)	
754	* 1-910-050-33	CONNECTOR ASSY (XA15P)	
755	* 1-910-050-42	CONNECTOR ASSY (XADRP40P)	

REF. No.	PART No.	DESCRIPTION	MARK
756	* 1-910-050-43	CONNECTOR ASSY (XADRP36P)	
757	* 1-910-052-17	CONNECTOR ASSY (XA12P/XA10P)	
758	* 1-910-049-18	CONNECTOR ASSY (VH8P)	
759	* 1-910-049-16	CONNECTOR ASSY (GHDR40P-R)	

4-3. KDL-55XBR45/55X4500

4-3-1. REAR COVER AND STAND ASSY

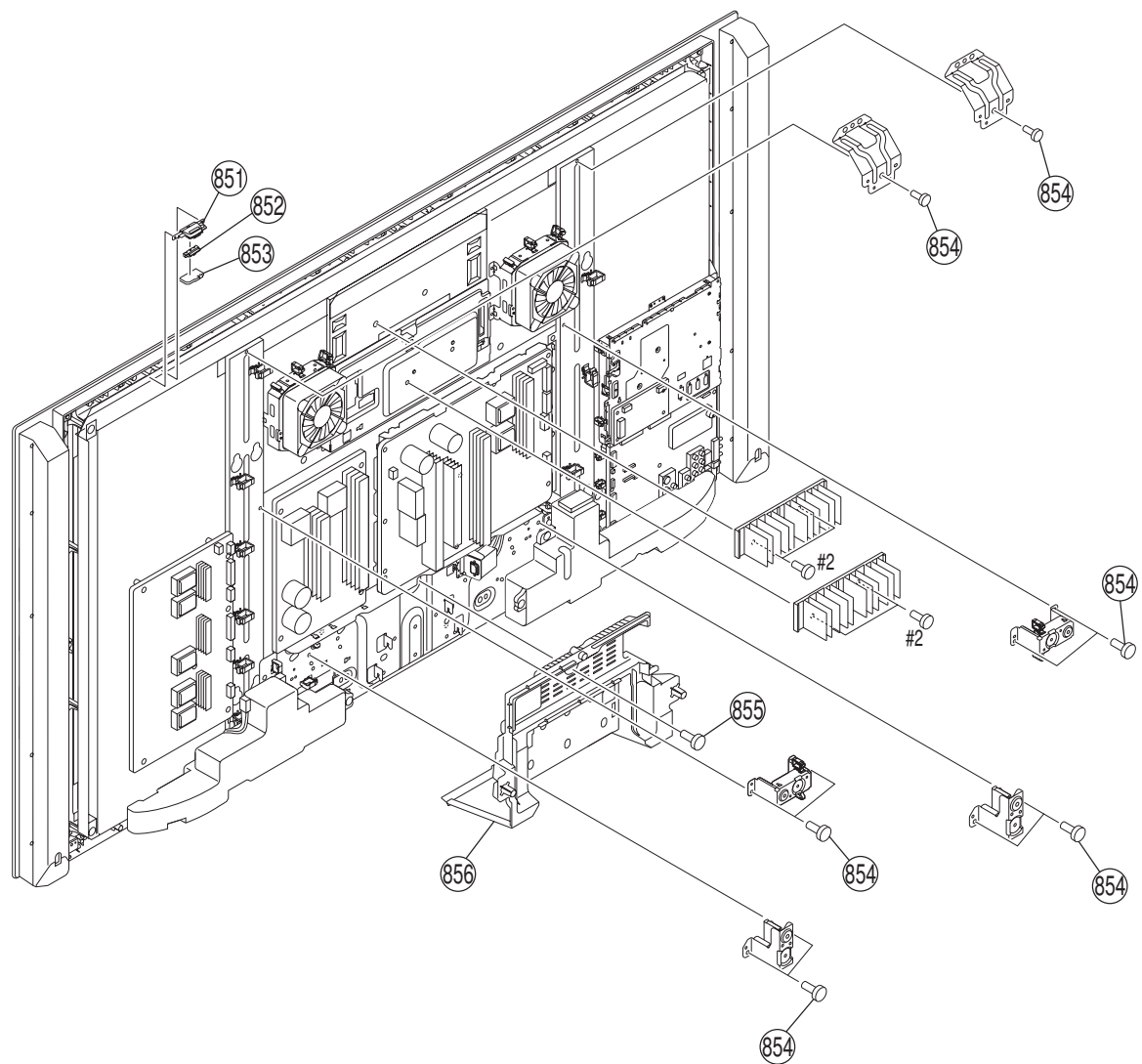


REF. No.	PART No.	DESCRIPTION	MARK
801	2-580-640-01	SCREW, +BVTP2 4X16	
802	2-580-608-01	SCREW, +PSW M5X16	
803	3-300-711-31	LABEL, HDMI	
804	3-300-710-21	LABEL, REAR TERMINAL	
805	3-094-483-11	COVER, ECS	

REF. No.	PART No.	DESCRIPTION	MARK
806	△ 3-296-672-11	REAR COVER (55Z)	
807	X-2189-898-1	STAND ASSY (LL-3)	
808	3-452-815-11	SCREW, +PSW M5X20	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-55XBR45/55X4500

4-3-2. H1VM BOARD AND UNDER COVER

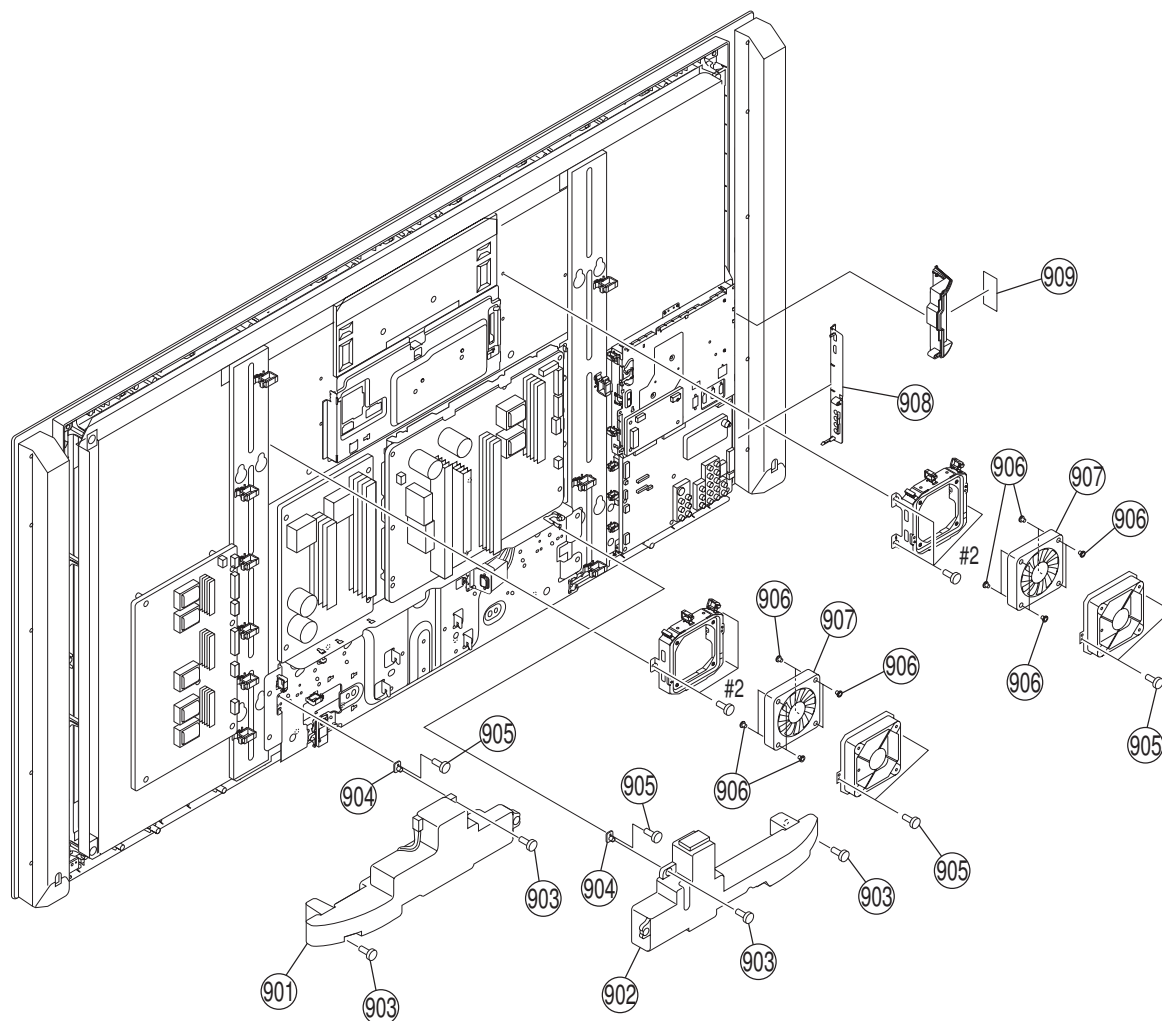


REF. No.	PART No.	DESCRIPTION	MARK
851	* 3-293-095-11	BRACKET, POWER	
852	3-293-094-01	BUTTON, POWER	
853	A-1510-339-A	H1VM MOUNT	
854	2-580-606-01	SCREW, +PSW M5X8	
855	2-580-608-01	SCREW, +PSW M5X16	

REF. No.	PART No.	DESCRIPTION	MARK
856	△ 3-299-096-01	COVER, UNDER (55Z)	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-55XBR45/55X4500

4-3-3. FAN AND WOOFER SPEAKER

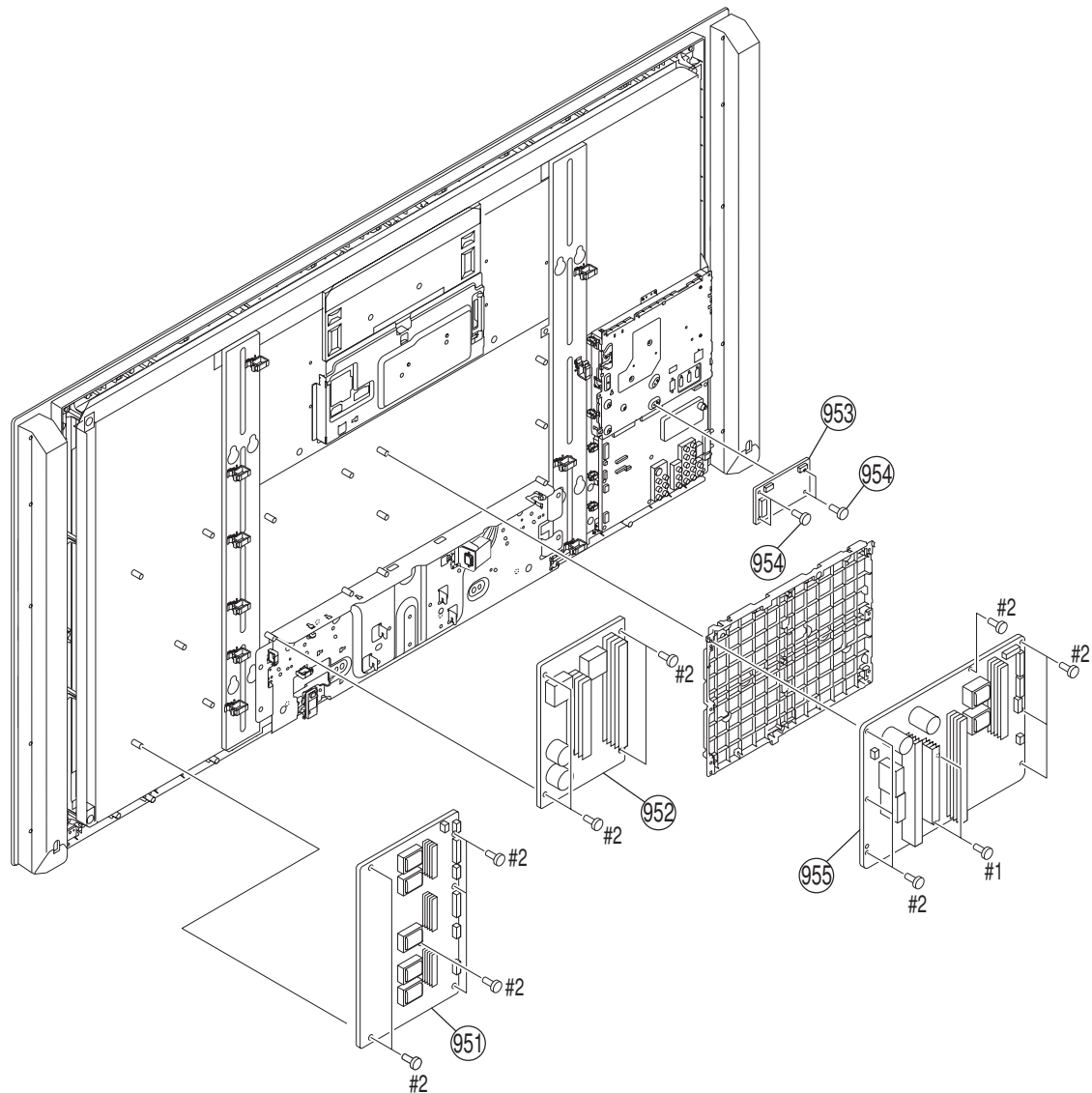


REF. No.	PART No.	DESCRIPTION	MARK
901	1-826-964-21	SP BOX ASSY (WOOFER)	
902	1-826-964-11	SP BOX ASSY (WOOFER)	
903	2-580-640-01	SCREW, +PWTP2 4X16	
904	3-299-098-01	BRACKET, AWF (S)	
905	2-580-629-01	SCREW, +BVST 3X8	

REF. No.	PART No.	DESCRIPTION	MARK
906	2-059-414-21	DAMPER, FAN	
907	1-787-333-11	D.C. FAN	
908	3-284-290-71	BRACKET, SIDE JACK (AEJ)	
909	3-284-296-01	COVER, MS	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-55XBR45/55X4500

4-3-4. G6, G7, GL AND K2 BOARDS

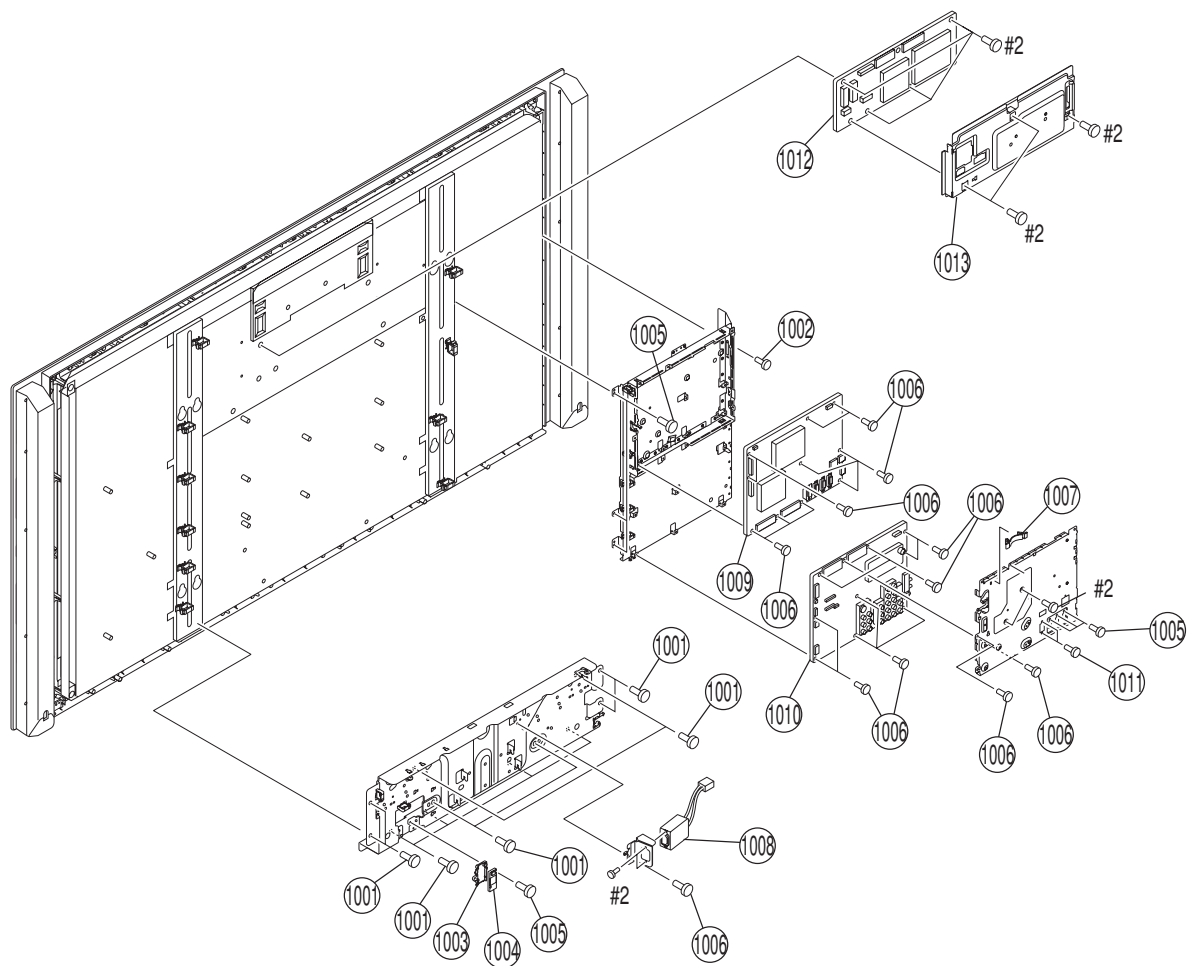


REF. No.	PART No.	DESCRIPTION	MARK
951	△ A-1553-201-A	GL COMPL	
952	△ A-1552-105-A	G7 COMPL	
953	A-1543-151-C	K2 MOUNT	
954	2-580-590-01	SCREW , +PSW M3X5	
955	△ A-1552-103-B	G6 COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-55XBR45/55X4500

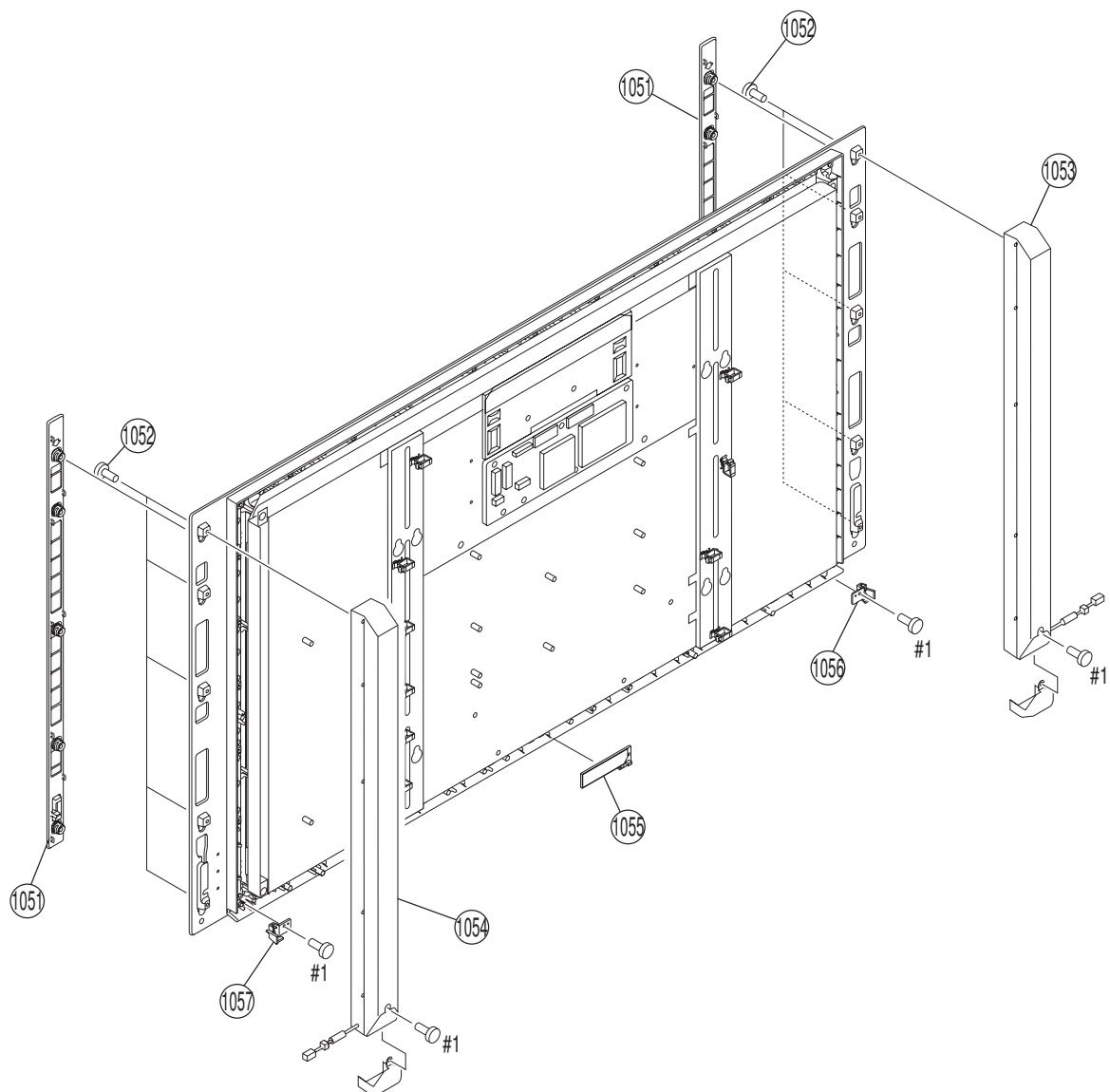
4-3-5. AAS, CB1 AND FBA BOARDS



REF. No.	PART No.	DESCRIPTION	MARK
1001	2-580-606-01	SCREW, +PSW M5X8	
1002	2-580-640-01	SCREW, +BVTP2 4X16	
1003	* 4-105-347-01	BRACKET, RF	
1004	1-480-915-12	RF MODULE	
1005	2-580-590-01	SCREW, +PSW M3X5	
1006	2-580-629-01	SCREW, +BVST 3X8	
1007	3-080-039-01	CLAMP (FCR-15), FLAT	
1008	1-822-096-11	AC INLET (WITH NOISE FILTER)	
1009	A-1568-321-A	FBA COMPL	
1010	A-1568-316-A	AAS COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
1011	2-580-626-01	SCREW, SP 4-40 UNC	
1012	A-1557-695-A	CB1 MOUNT	
1013	X-2319-533-1	SHIELD, CB ASSY	
#2	7-682-948-01	SCREW +PSW 3X8	

KDL-55XBR45/55X4500
4-3-6. SPEAKER AND GRILLE

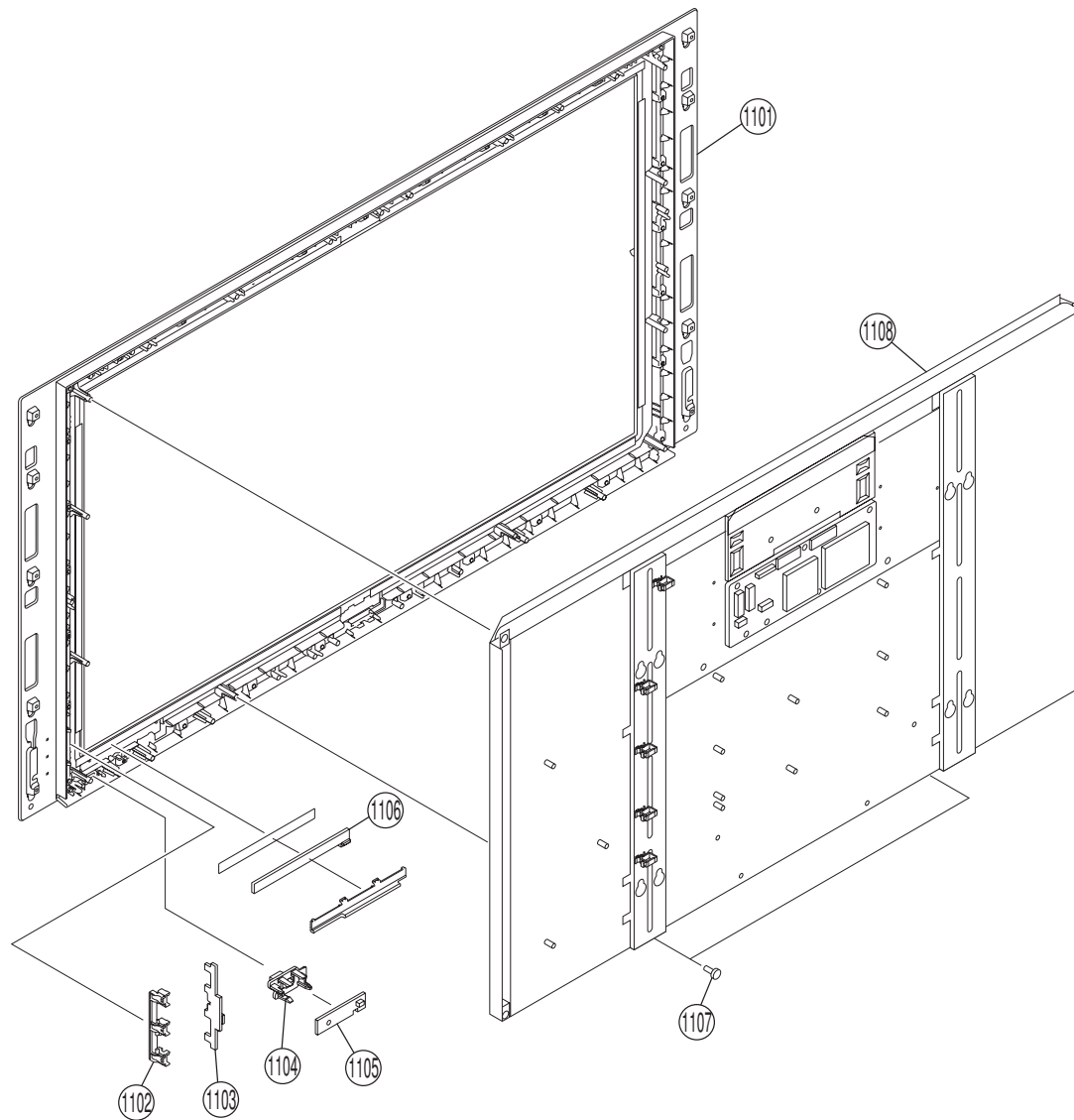


REF. No.	PART No.	DESCRIPTION	MARK
1051	X-2190-490-2	GRILLE (55 S) ASSY (Silver)	
	X-2190-491-2	GRILLE (55 N) ASSY (Gold)	
	X-2190-492-2	GRILLE (55 T) ASSY (Brown)	
	X-2190-493-2	GRILLE (55 B) ASSY (Black)	
	X-2190-494-2	GRILLE (55 R) ASSY (Red)	
1052	2-580-640-01	SCREW, +BVTP2 4X16	
1053	1-826-966-11	SP BOX ASSY	
1054	1-826-966-21	SP BOX ASSY	
1055	1-480-680-11	ILLUMINATION MODULE	

REF. No.	PART No.	DESCRIPTION	MARK
1056	X-2319-159-1	COVER CABINET L ASSY	
1057	X-2319-158-1	COVER CABINET R ASSY	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KDL-55XBR45/55X4500

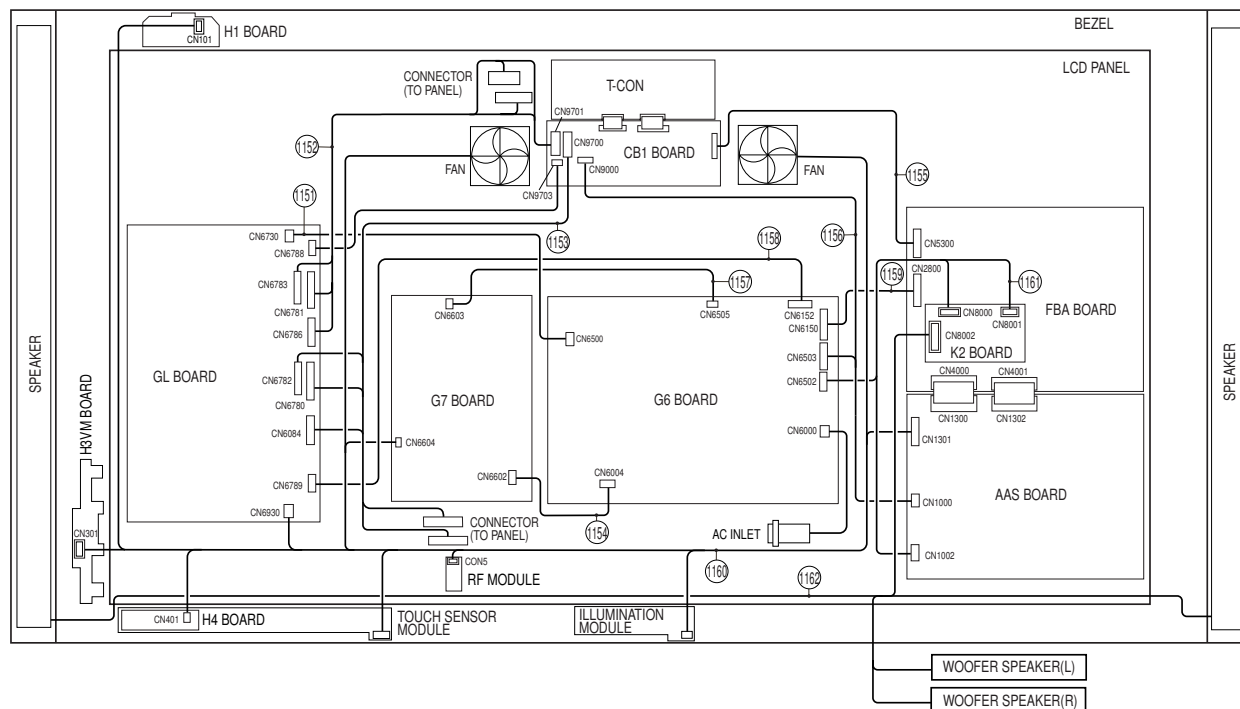
4-3-7. LCD PANEL



REF. No.	PART No.	DESCRIPTION	MARK
1101	△ X-2319-455-1	BEZEL (55) ASSY (Australian)	
	△ X-2319-180-1	BEZEL (55) ASSY (New Zealand, Singapore)	
1102	3-876-205-01	BRACKET, LED	
1103	A-1510-340-A	H3VM MOUNT	
1104	3-299-103-01	GUIDE LIGHT	
1105	A-1510-341-A	H4 MOUNT	

REF. No.	PART No.	DESCRIPTION	MARK
1106	1-798-150-11	TOUCH SENSOR MODULE	
1107	2-580-640-01	SCREW, +BVTP2 4X16	
1108	△ A-1568-136-A	LCD PANEL (55 FHD TFT)	

KDL-55XBR45/55X4500
4-3-8. CONNECTOR ASSY

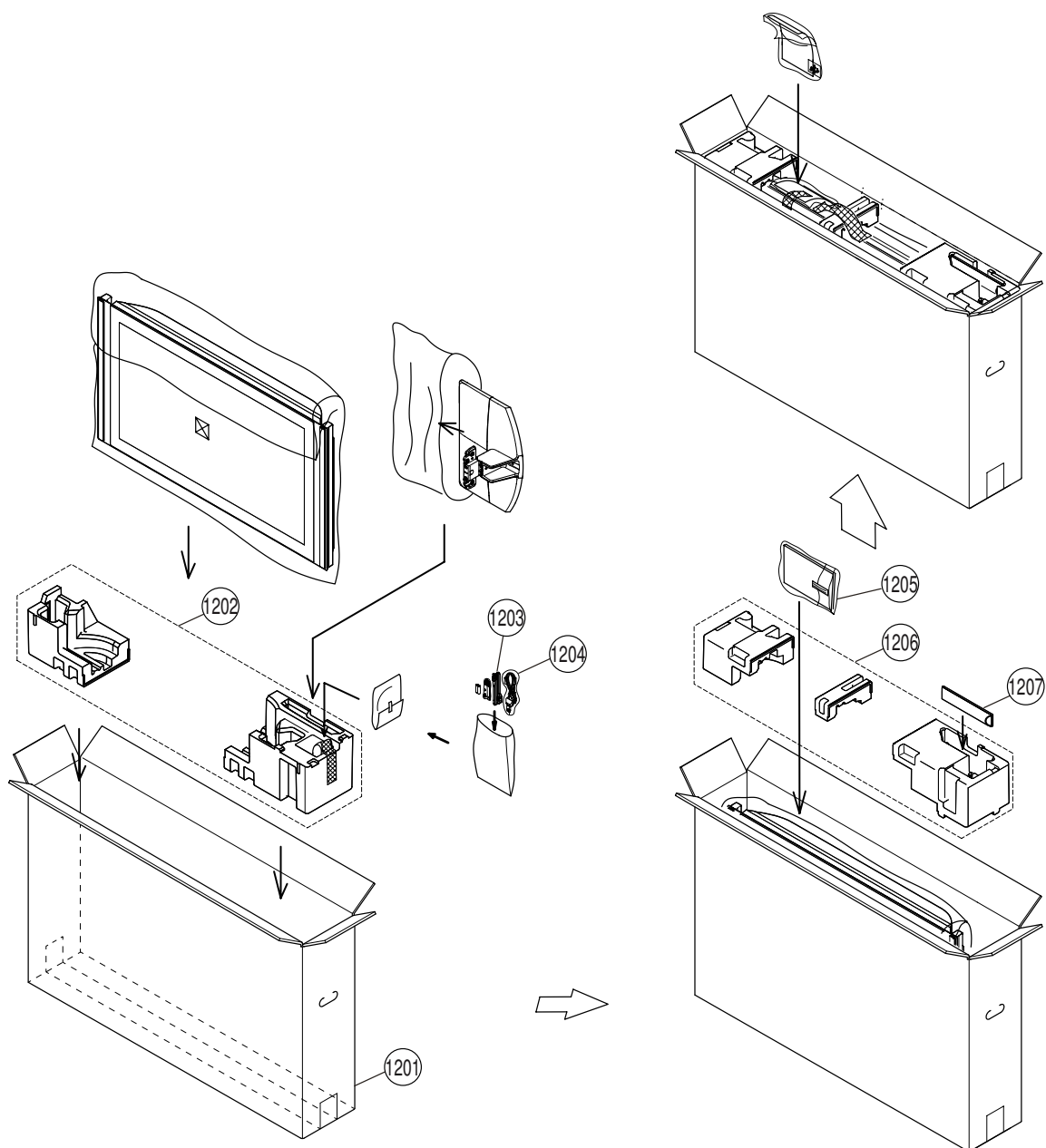


REF. No.	PART No.	DESCRIPTION	MARK
1151	1-835-187-11	CONNECTOR ASSY	
1152	* 1-910-050-44	CONNECTOR ASSY (XADRP40P)	
1153	* 1-910-050-45	CONNECTOR ASSY (XADRP36P)	
1154	1-835-568-11	CONNECTOR ASSY	
1155	1-835-786-11	WIRE, LEAD, CONNECTOR WITH (LV)	

REF. No.	PART No.	DESCRIPTION	MARK
1156	* 1-910-051-51	CONNECTOR ASSY (XA12P)	
1157	1-910-048-68	CONNECTOR ASSY 3P	
1158	1-910-048-67	CONNECTOR ASSY 8P	
1159	* 1-910-050-33	CONNECTOR ASSY (XA15P)	
1160	* 1-910-052-37	CONNECTOR ASSY (GHDR40P-R)	
1161	* 1-910-050-52	CONNECTOR ASSY (GHDR20P/XA8P)	
1162	* 1-910-049-24	CONNECTOR ASSY (VH8P)	

4-4. PACKING MATERIALS

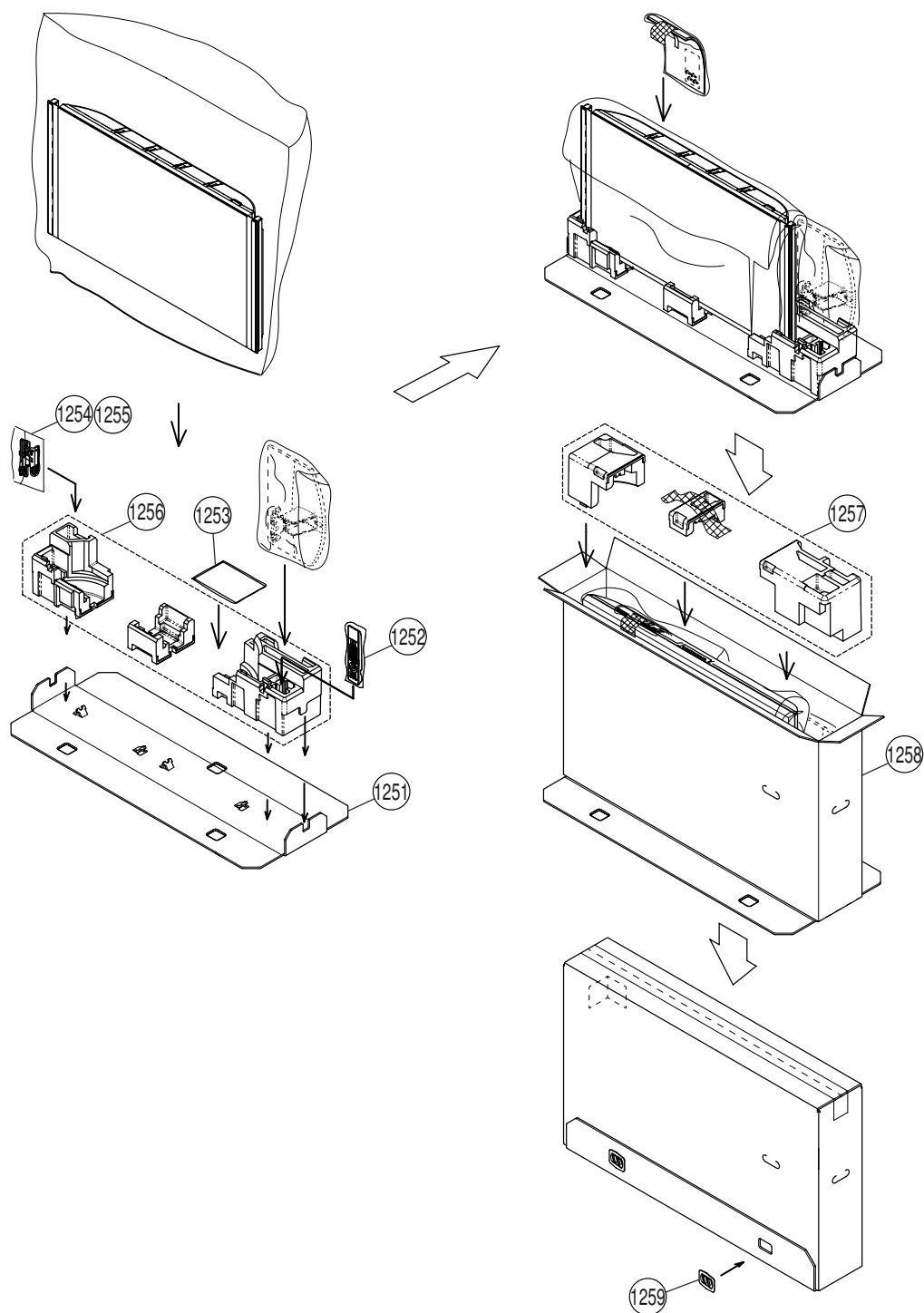
4-4-1. KDL-40XBR45/40X4500



REF. No.	PART No.	DESCRIPTION	MARK
1201	* 4-114-380-02	INDIVIDUAL CARTON (AUS)	
	* 4-120-425-02	INDIVIDUAL CARTON (NZ)	
	* 4-120-426-01	INDIVIDUAL CARTON (ES)	
1202	* 4-114-382-01	CUSHION LOWER	
1203	△ 1-835-167-21	POWER-SUPPLY CORD (AUS/NZ)	
	△ 1-835-165-21	POWER-SUPPLY CORD (ES)	
1204	1-769-175-21	ANTENNA CABLE	
1205	△ 4-110-257-12	MANUAL, INSTRUCTION (AUS/NZ)	
	△ 4-112-817-12	MANUAL, INSTRUCTION (ES)	

REF. No.	PART No.	DESCRIPTION	MARK
1206	* 4-114-381-01	CUSHION UPPER	
1207	△ 1-480-874-11	REMOTE COMMANDER (RMF-GD001)	

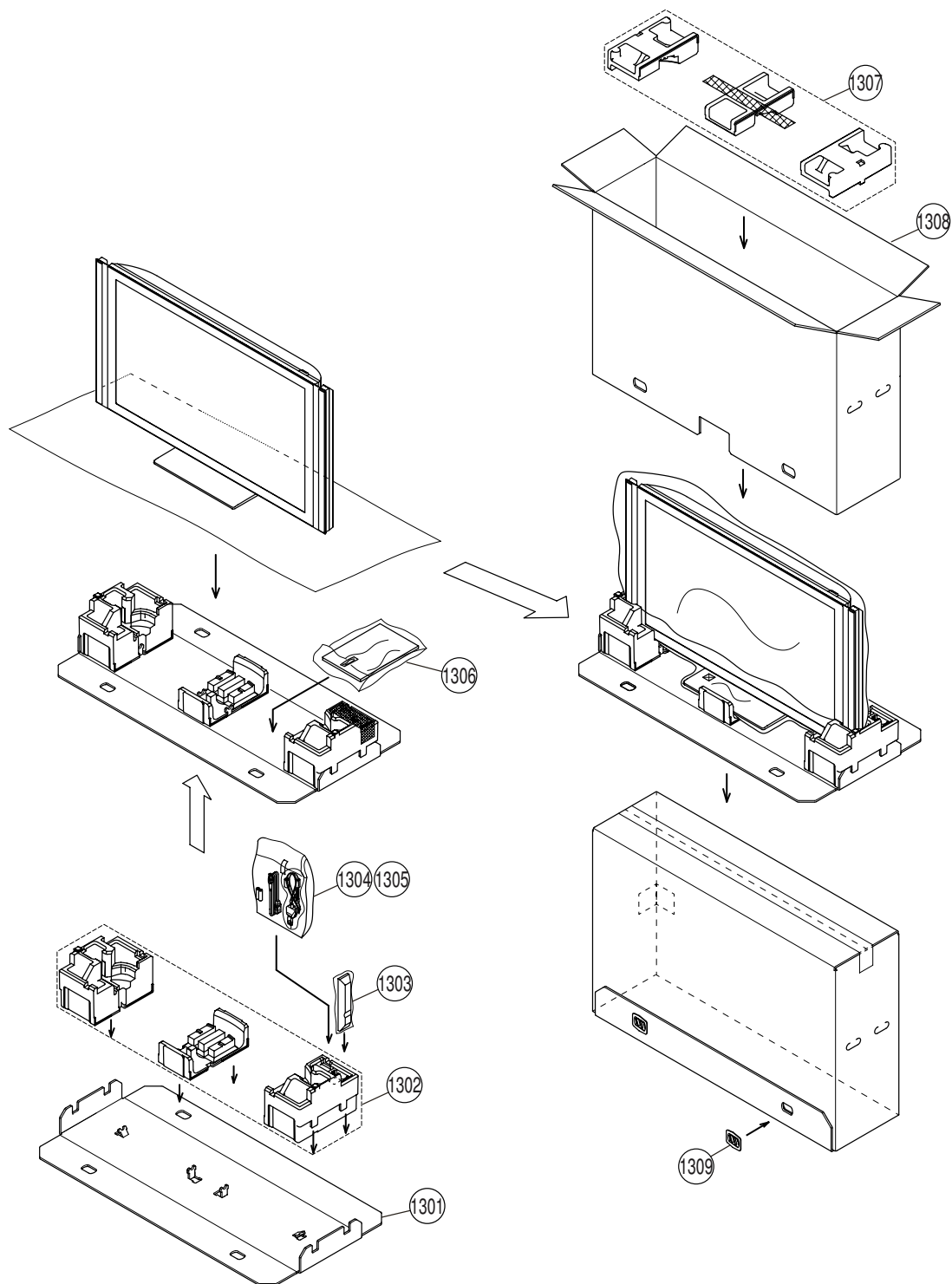
4-4-2. KDL-46XBR45/46X4500



REF. No.	PART No.	DESCRIPTION	MARK
1251	* 4-110-171-01	TRAY	
1252	△ 1-480-874-11	REMOTE COMMANDER (RMF-GD001)	
1253	△ 4-110-257-12	MANUAL, INSTRUCTION (AUS/NZ)	
	△ 4-112-817-12	MANUAL, INSTRUCTION (ES)	
1254	1-769-175-21	ANTENNA CABLE	
1255	△ 1-835-167-21	POWER-SUPPLY CORD (AUS/NZ)	
	△ 1-835-165-21	POWER-SUPPLY CORD (ES)	

REF. No.	PART No.	DESCRIPTION	MARK
1256	* 4-104-564-01	CUSHION LOWER	
1257	* 4-104-563-01	CUSHION UPPER	
1258	* 4-117-625-01	INDIVIDUAL CARTON (NZ)	
	* 4-117-626-01	INDIVIDUAL CARTON (ES)	
	* 4-110-170-01	INDIVIDUAL CARTON (AUS)	
1259	* 3-674-673-01	STOPPER (A)	

4-4-3. KDL-55XBR45/55X4500



REF. No.	PART No.	DESCRIPTION	MARK
1301	* 3-874-544-01	TRAY	
1302	* 3-875-685-11	CUSHION LOWER	
1303	△ 1-480-874-11	REMOTE COMMANDER (RMF-GD001)	
1304	1-769-175-21	ANTENNA CABLE (AUS)	
1305	△ 1-835-167-21	POWER-SUPPLY CORD (AUS/NZ)	
	△ 1-835-165-21	POWER-SUPPLY CORD (ES)	

REF. No.	PART No.	DESCRIPTION	MARK
1306	△ 4-110-257-12	MANUAL, INSTRUCTION (AUS/NZ)	
	△ 4-112-817-12	MANUAL, INSTRUCTION (ES)	
1307	* 3-875-684-12	CUSHION UPPER	
1308	* 4-117-629-01	INDIVIDUAL CARTON (NZ)	
	* 4-117-630-01	INDIVIDUAL CARTON (ES)	
	* 3-874-543-01	INDIVIDUAL CARTON (AUS)	
1309	* 4-030-895-01	JOINT	

