

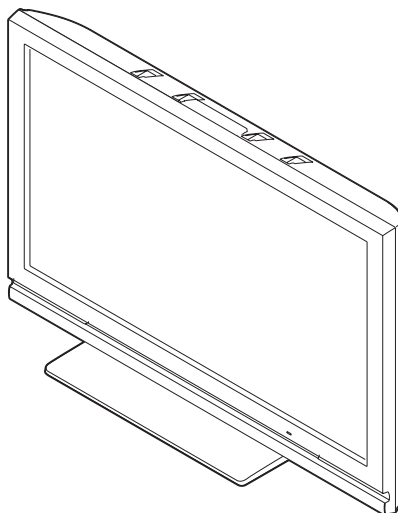
KLV-32W400A/40W400A/46W400A/52W400A

SERVICE MANUAL

*E Model
India Model
Indonesia Model
Middle East Model
Thailand Model
Philippines Model
Saudi Arabia Model
South Africa Model*



RM-GA011














KLV-32W400A/40W400A/46W400A/52W400A

EX1 CHASSIS

LCD Colour TV

SONY®

SPECIFICATIONS

Model name	KLV-52W400A	KLV-46W400A	KLV-40W400A	KLV-32W400A	
System					
Panel System	LCD (Liquid Crystal Display) Panel				
TV System	B/G, I, D/K, M				
Colour System	PAL, PAL60, SECAM, NTSC 3.58, NTSC 4.43 (only Video In)				
Channel Coverage	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/ CATV: S01 to S03, S1 to S41, Z1 to Z39 M: VHF: A2 to A13/ UHF: A14 to A79/ CATV: A-8 to A-2, A to W+4, W+6 to W+84				
Sound Output	10 W + 10 W				
Input/Output jacks					
Antenna	75 ohm external terminal for VHF/UHF				
 1	5 video input (4-pin mini DIN)				
 1, 2, 3	Video input (phono jack)				
 1, 2, 3	Audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms				
 1/  2	Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync/P _B /C _B : 0.7 Vp-p, 75 ohms/ Pr/Cr: 0.7 Vp-p, 75 ohms				
HDMI IN 1, 2, 3	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 3 only)				
	Video output (phono jack)				
	Audio output (phono jacks)				
PC IN  (RGB)	PC Input (D-sub 15-pin) (see page 38) 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)				
	Headphones jack				
DMPORT	DIGITAL MEDIA PORT				
Power and others					
Power Requirements	110–240 V AC, 50/60 Hz				
Screen Size	52 inches (Approx. 132.2 cm measured diagonally)	46 inches (Approx. 116.8 cm measured diagonally)	40 inches (Approx. 101.6 cm measured diagonally)	32 inches (Approx. 81.3 cm measured diagonally)	
Display Resolution	1,920 dots (horizontal) × 1,080 lines (vertical)				
Power Consumption	280 W	270 W	220 W	170 W	
Standby Power Consumption*	0.3 W				
Dimensions** (w × h × d)	with stand (mm)	1,262 × 871 × 347	1,120 × 782 × 307	986 × 684 × 279	794 × 577 × 242
	without stand (mm)	1,262 × 829 × 119	1,120 × 742 × 115	986 × 646 × 110	794 × 540 × 99
Mass**	with stand (kg)	38	29	22	16.0
	without stand (kg)	32	25	19	13.0
Optional Accessories	Wall-Mount Bracket SU-WL500				

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

**Dimensions and mass are approximate values.

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart

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	75	VESA
WXGA	1280	768	47.4	60	VESA
	1280	768	47.8	60	VESA
	1360	768	47.7	60	VESA

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

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).

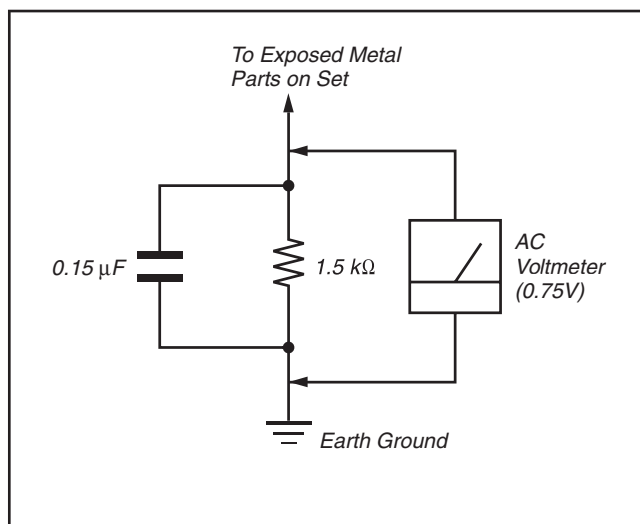


Figure A. Using an AC voltmeter to check AC leakage.

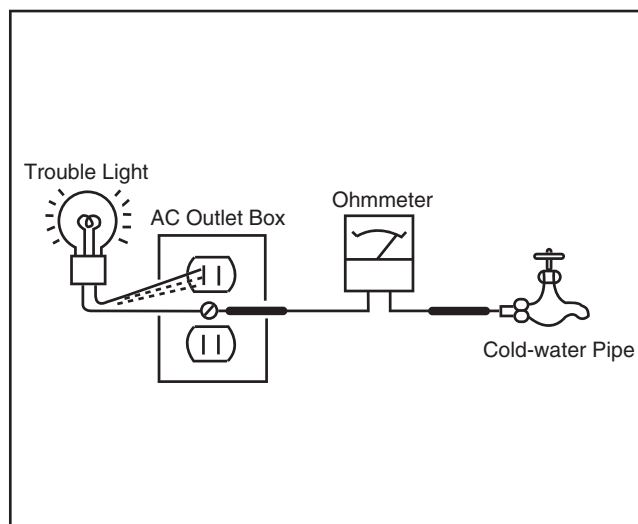


Figure B. Checking for earth ground.

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.

1-1. 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.

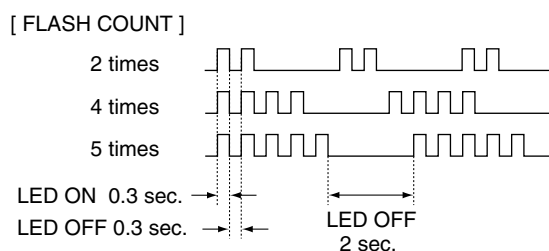
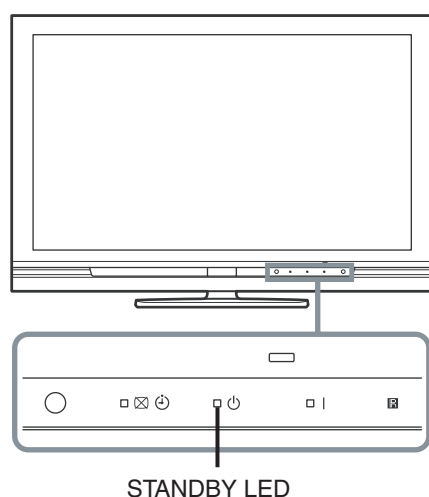
If there is more than one error, the LED will identify the first of the problem areas.

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)	Diagnostic Item Description
2 times	DC_DET	Main power supply voltage error (12V, etc)
3 times	DC_ALERT1	Malfunction of 3.3V line (Trident circuit, etc)
4 times	DC_ALERT2	Malfunction of 5V line (Voltage Supply to FE, etc)
5 times	DC_ALERT3	Malfunction of power supply for screen
6 times	BACKLIGHT	Malfunction of inverter or overcurrent, etc
7 times	TEMPERATURE	Abnormal temperature inside unit
8 times	AUDIO	Audio circuit error (amplifier, etc.)
10 times	DEF	Digital FE circuit error
11 times	B-ENGINE	Malfunction of Trident IC or around IC
12 times	HFR	BH board error
13 times	(No item on screen display)	Malfunction of balancer

1-2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Note: One flash counts is not self-diagnostic.

1-3. 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 from flashing.

1-4. 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:

1-4-1. 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]

TV		
DC_DET		0
DC_ALEAT1		0
DC_ALERT2		0
DC_ALERT3		0
BACKLIGHT		0
TEMPERATURE		0
AUDIO		0
DFE		0
B-ENGINE		0
HFR		0

Error Count Record

Number "0": means that no fault detected.

Number "1": means a fault was detected one time only.

Monitoring Items

For details, refer to "1-1. DIAGNOSTIC TEST INDICATORS"

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”.

1-5. Quitting Self-diagnostic screen

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

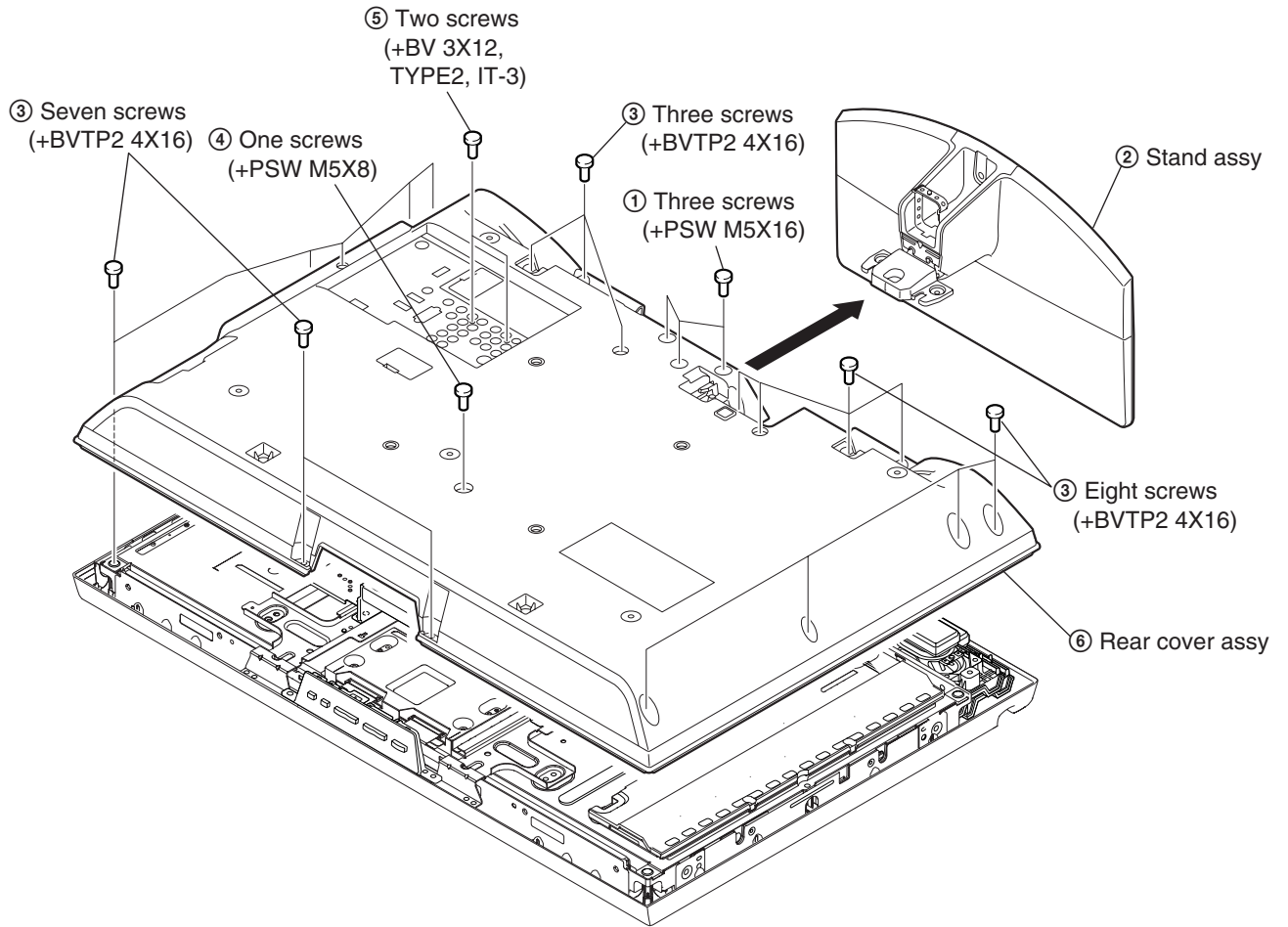
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SECTION 1 DISASSEMBLY

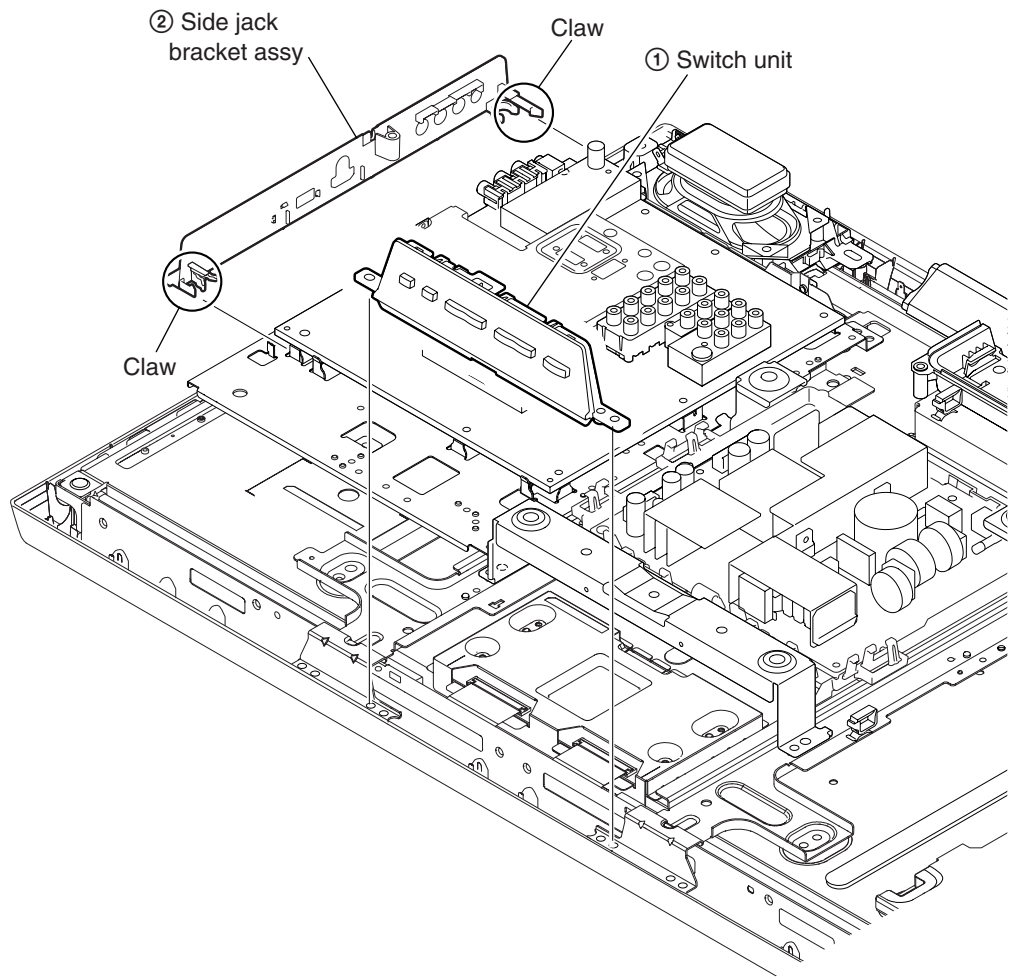
1-1. KLV-32W400A

1-1-1. REAR COVER AND STAND ASSY REMOVAL



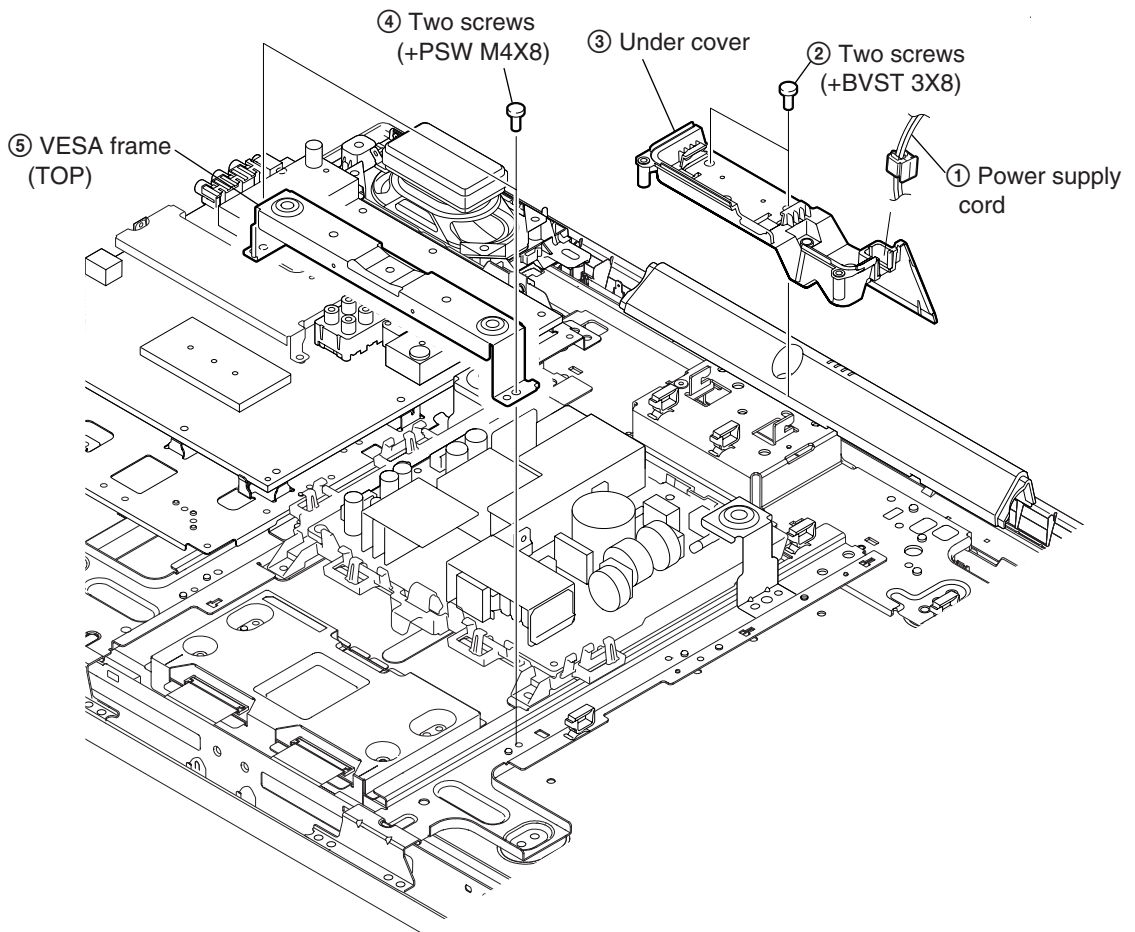
KLV-32W400A

1-1-2. SWITCH UNIT AND SIDE JACK BRACKET REMOVAL

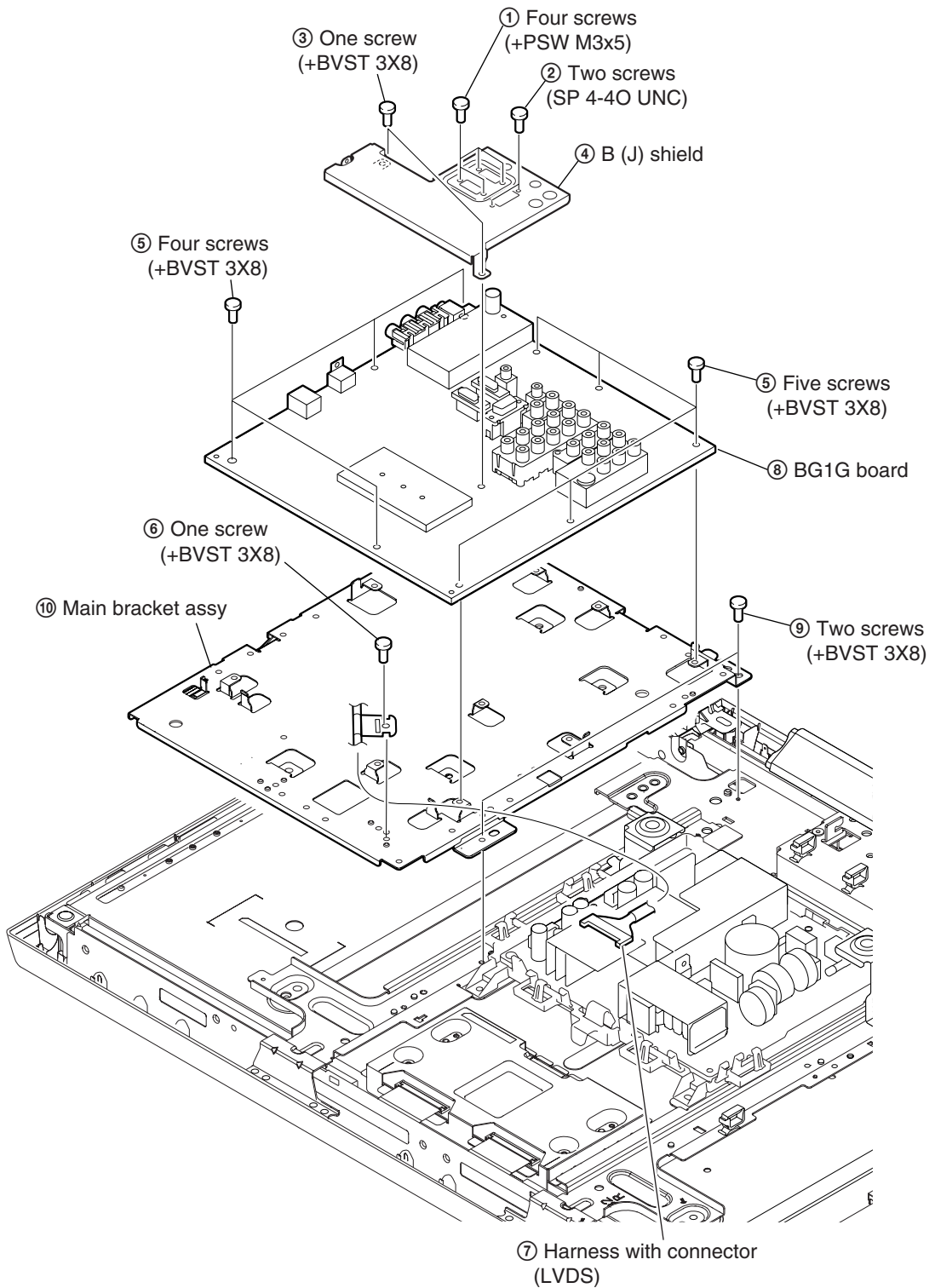


KLV-32W400A

1-1-3. UNDER COVER AND VESA FRAME (TOP) REMOVAL

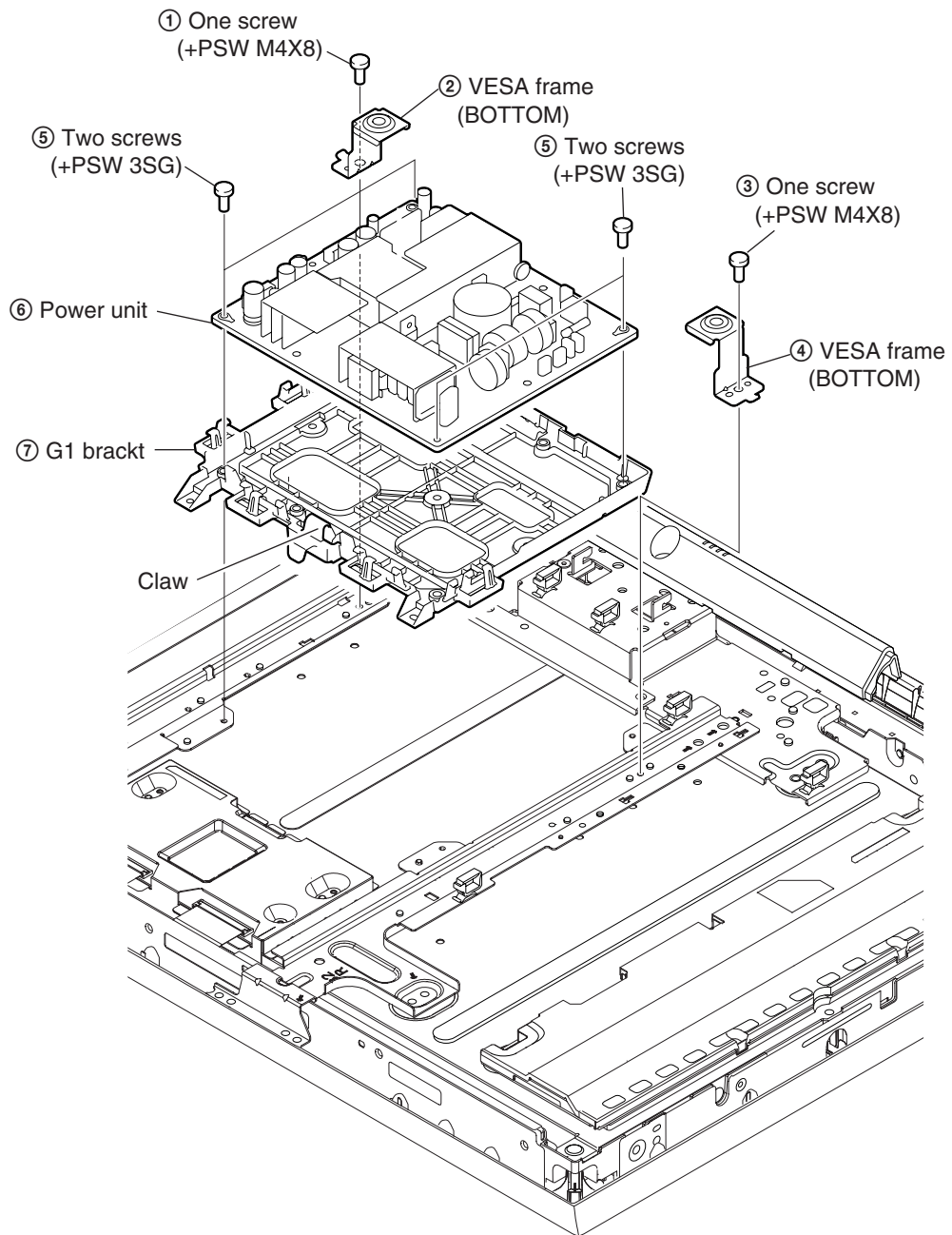


KLV-32W400A
1-1-4. BG1G BOARD REMOVAL



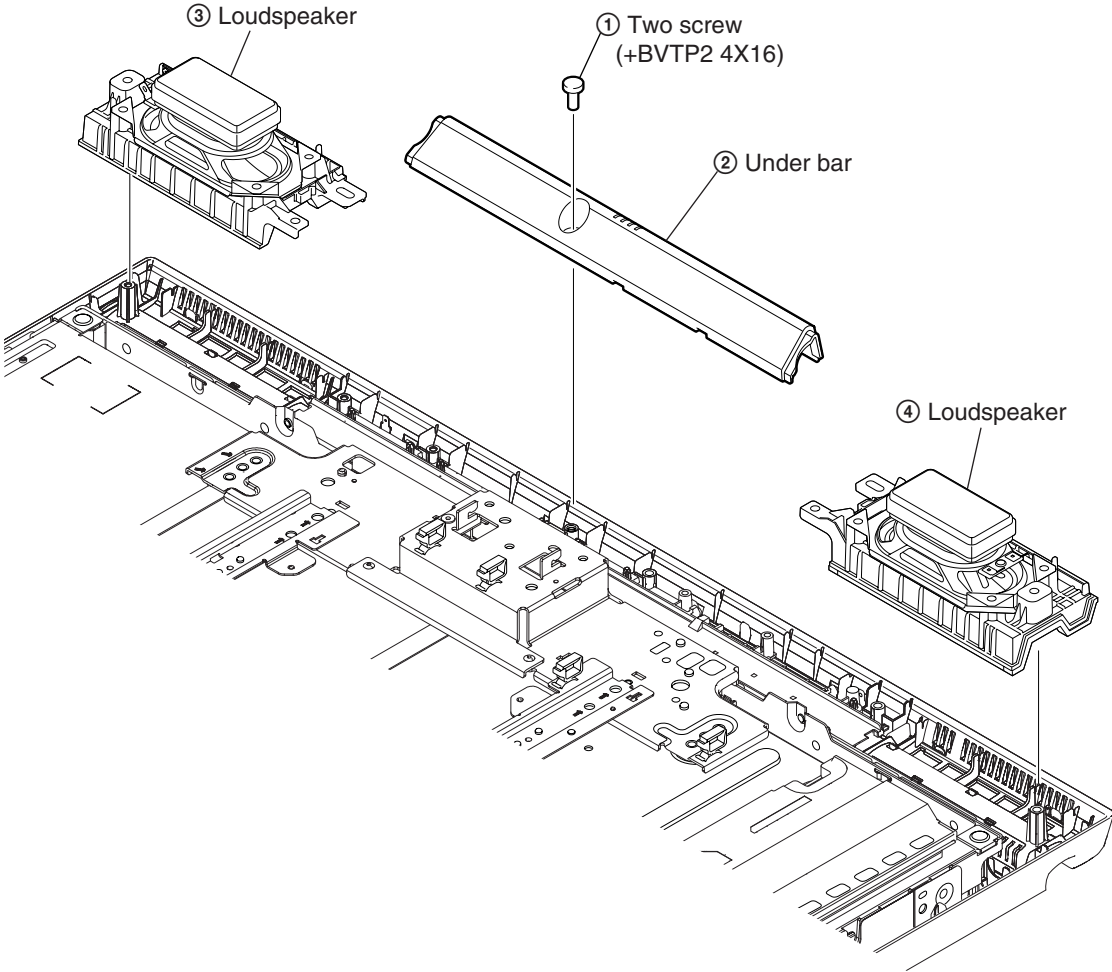
KLV-32W400A

1-1-5. POWER UNIT REMOVAL



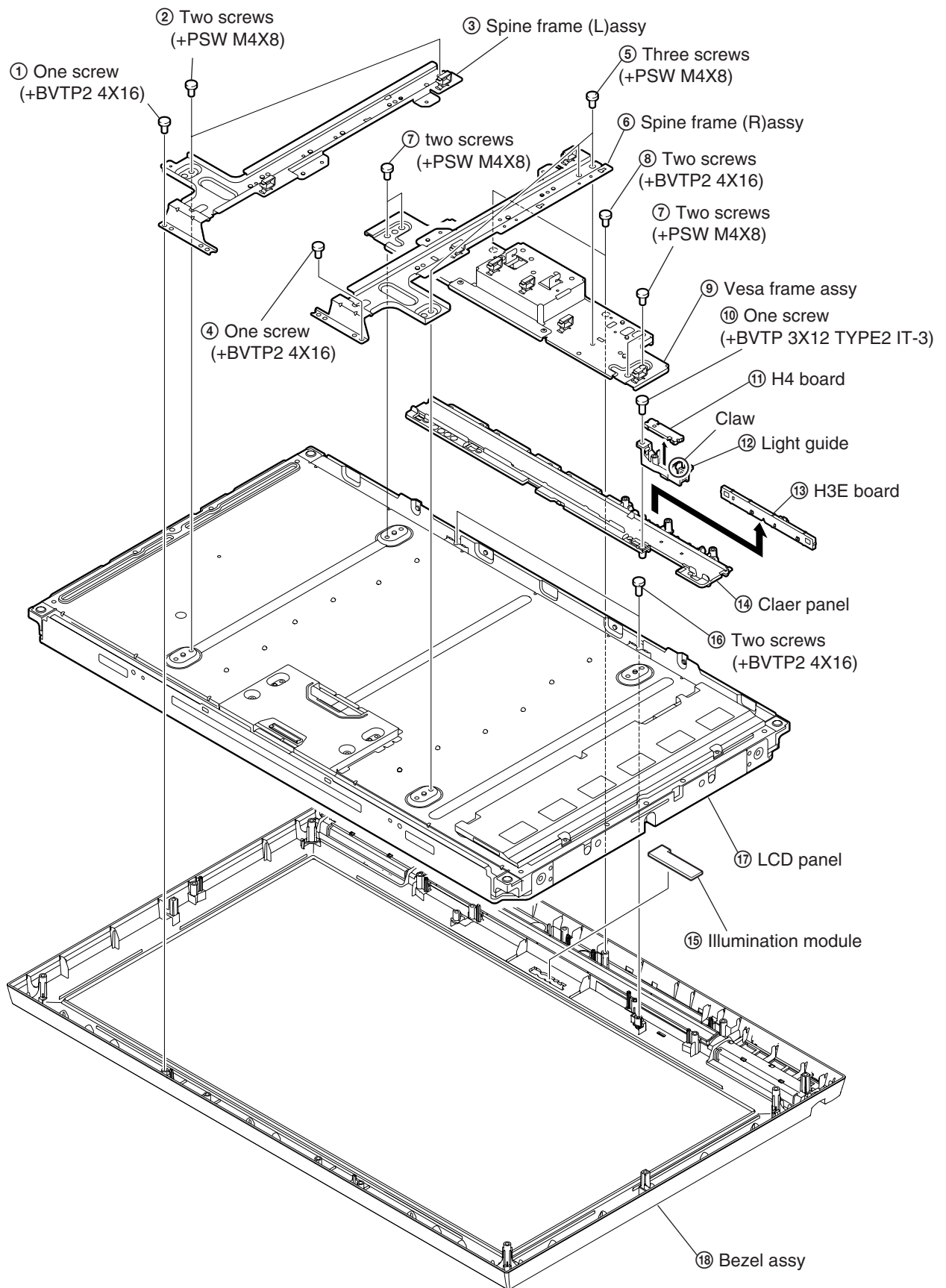
KLV-32W400A

1-1-6. SPEAKER AND UNDER BAR REMOVAL

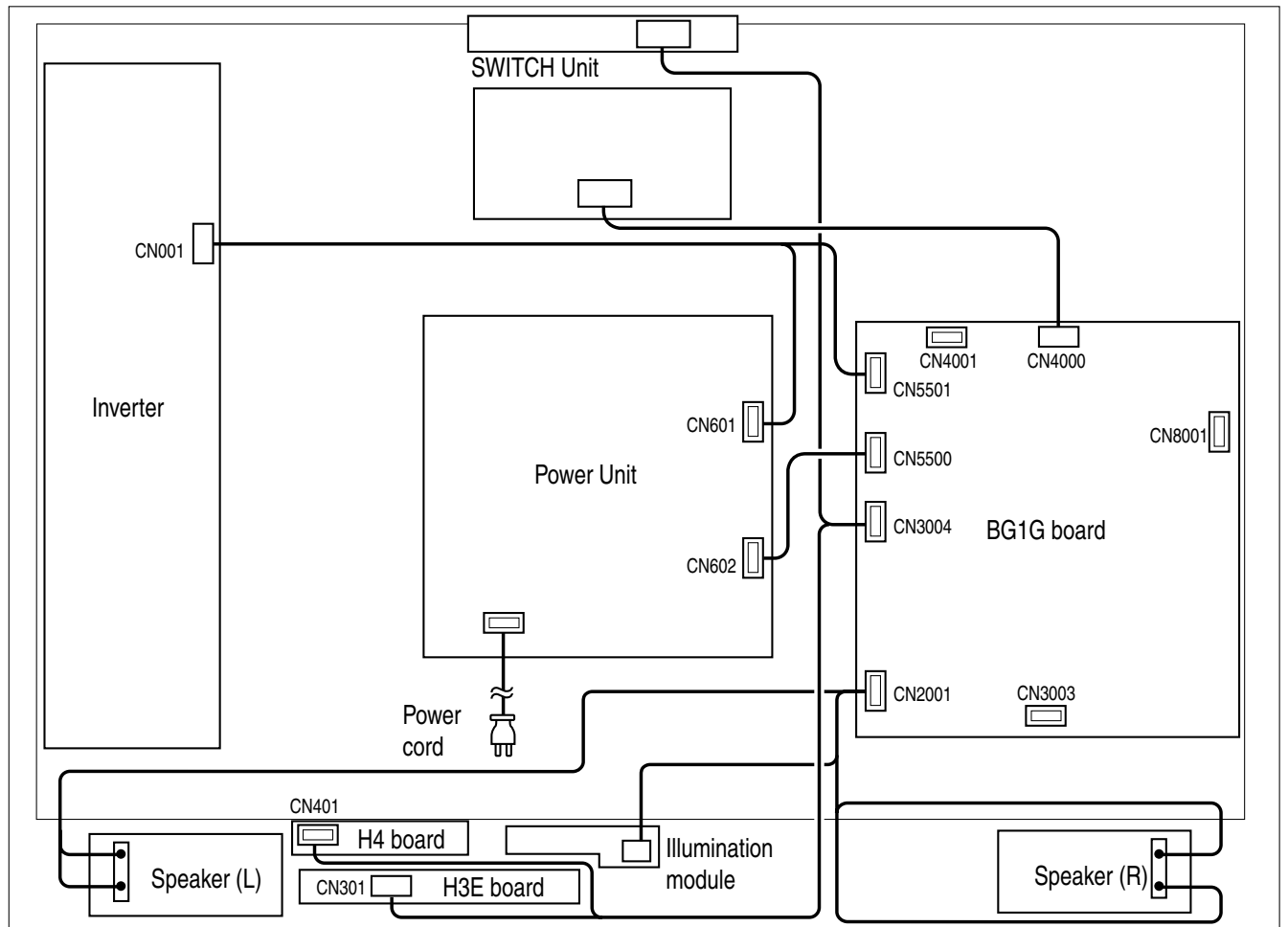


KLV-32W400A

1-1-7. LCD PANEL, H3E BOARD AND H4 BOARD REMOVAL

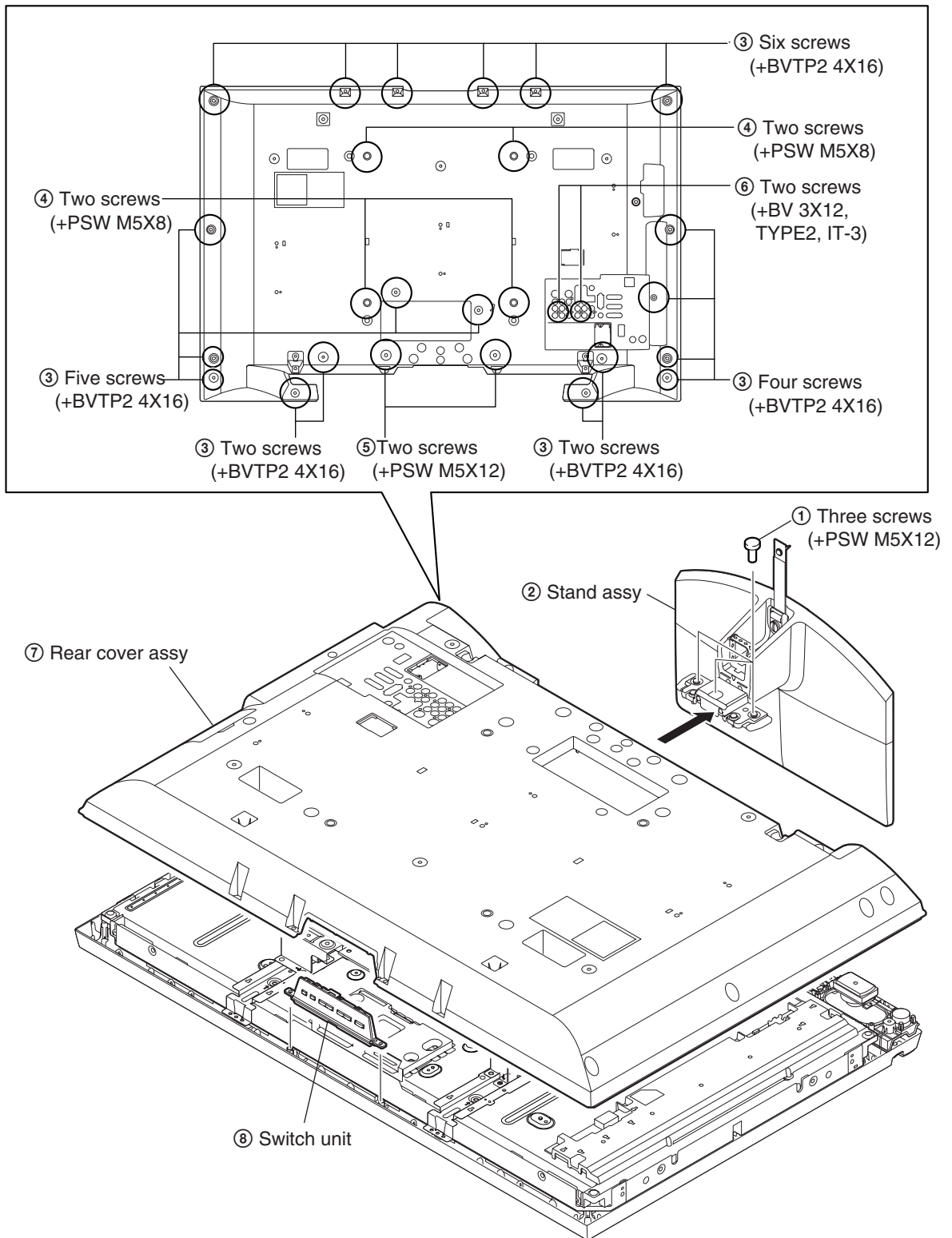


KLV-32W400A
1-1-8. WIRING LAYOUT



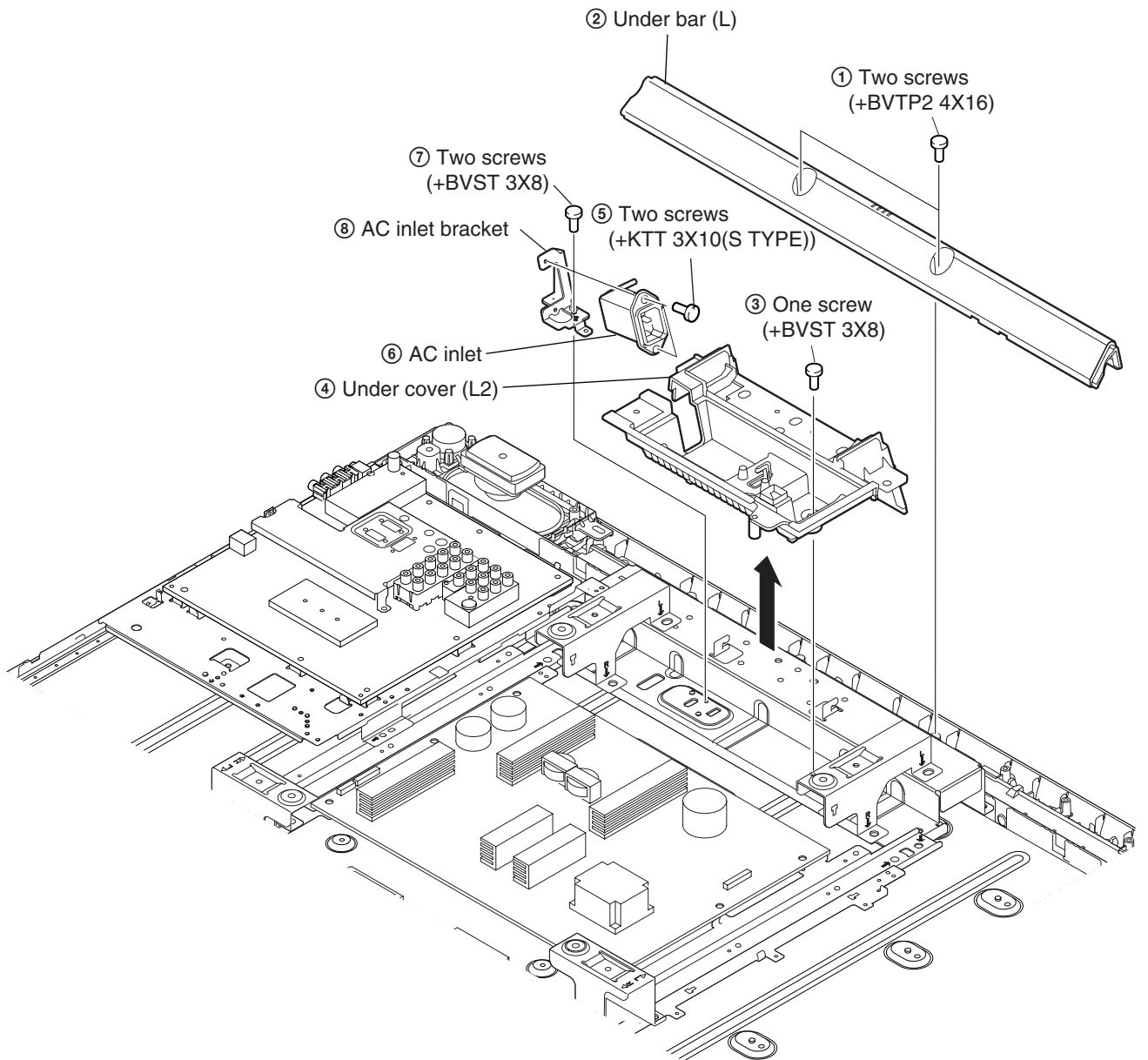
1-2. KLV-40W400A

1-2-1. REAR COVER AND STAND ASSY REMOVAL



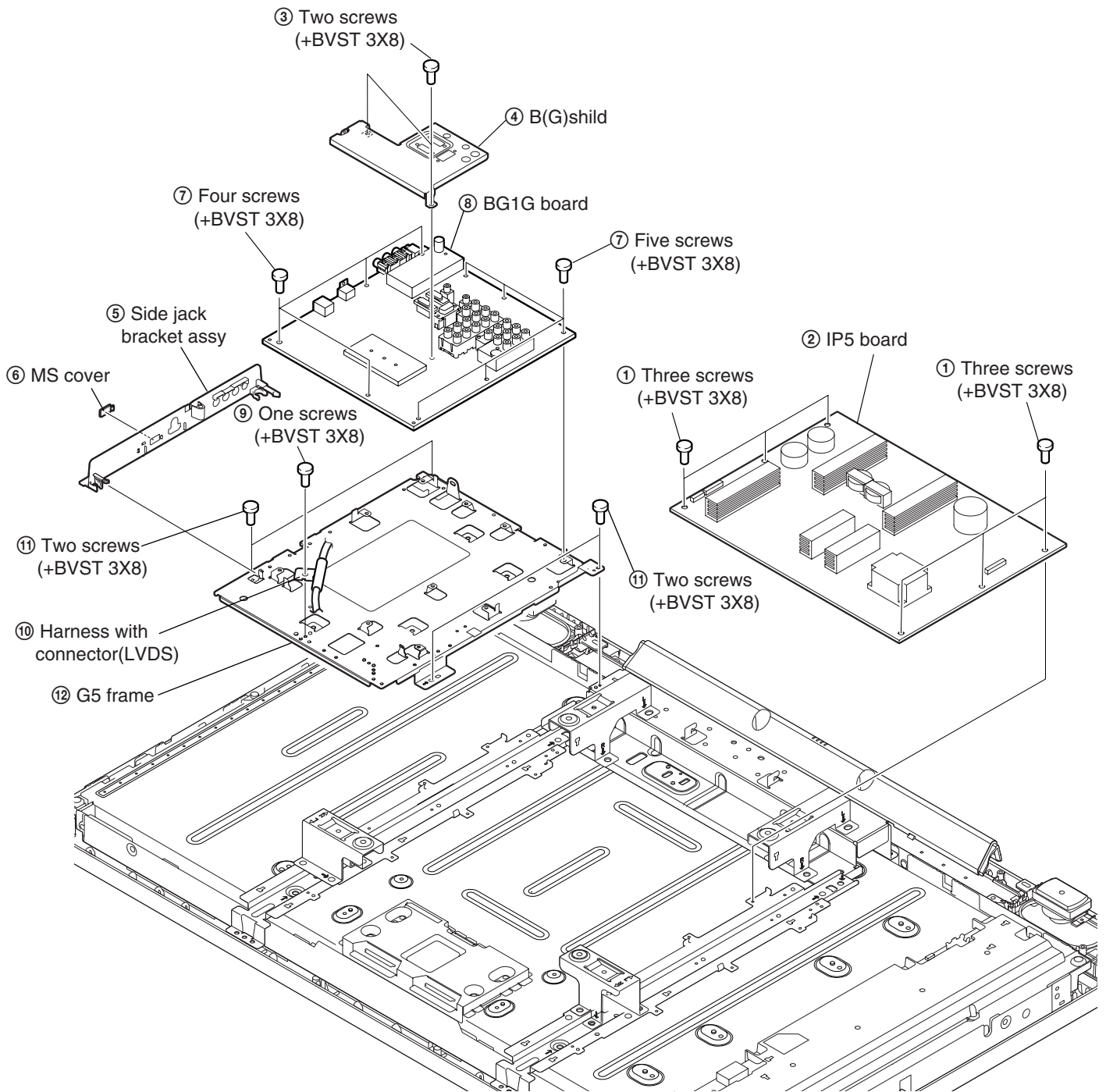
KLV-40W400A

1-2-2. AC INLET AND UNDER COVER REMOVAL

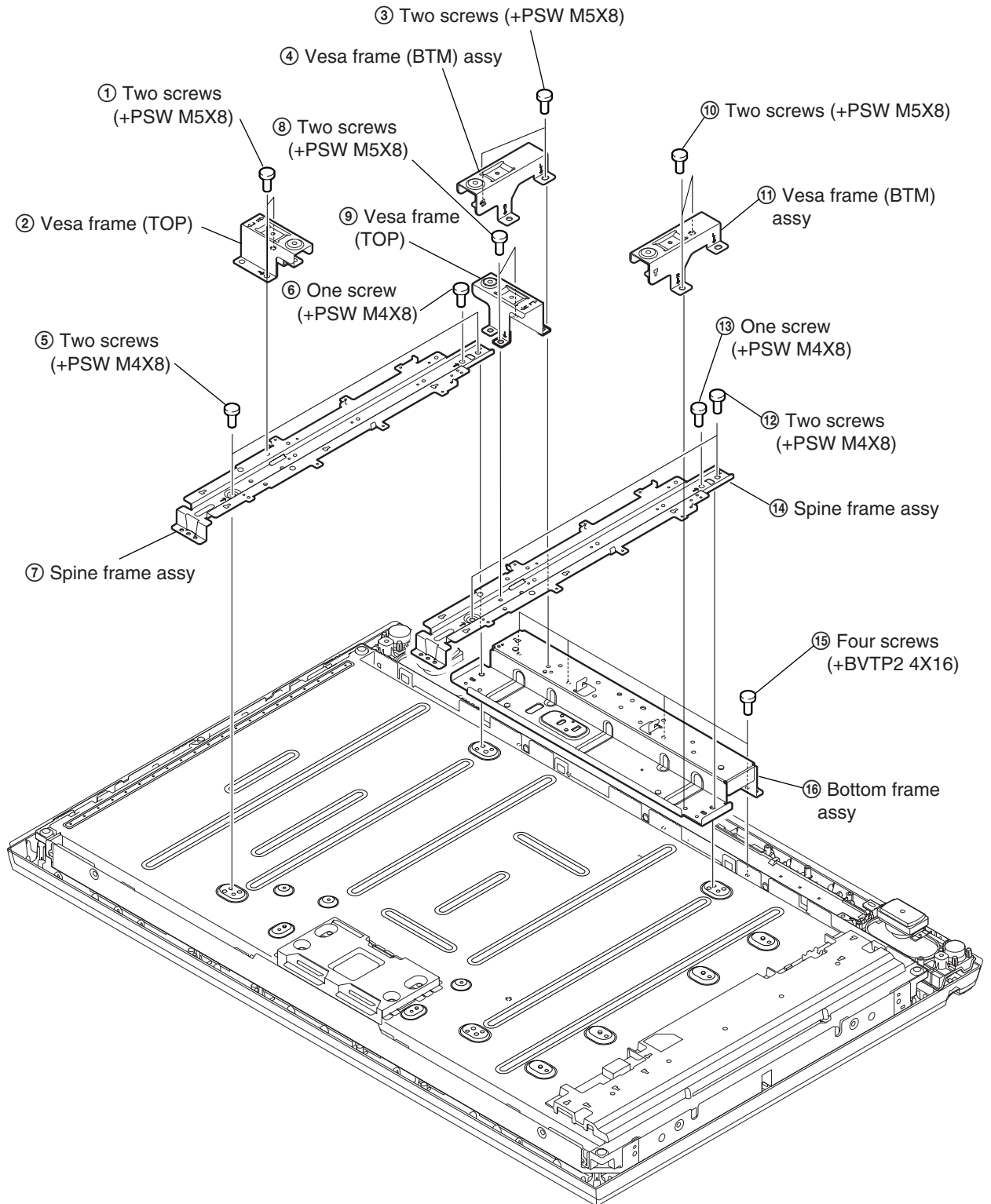


KLV-40W400A

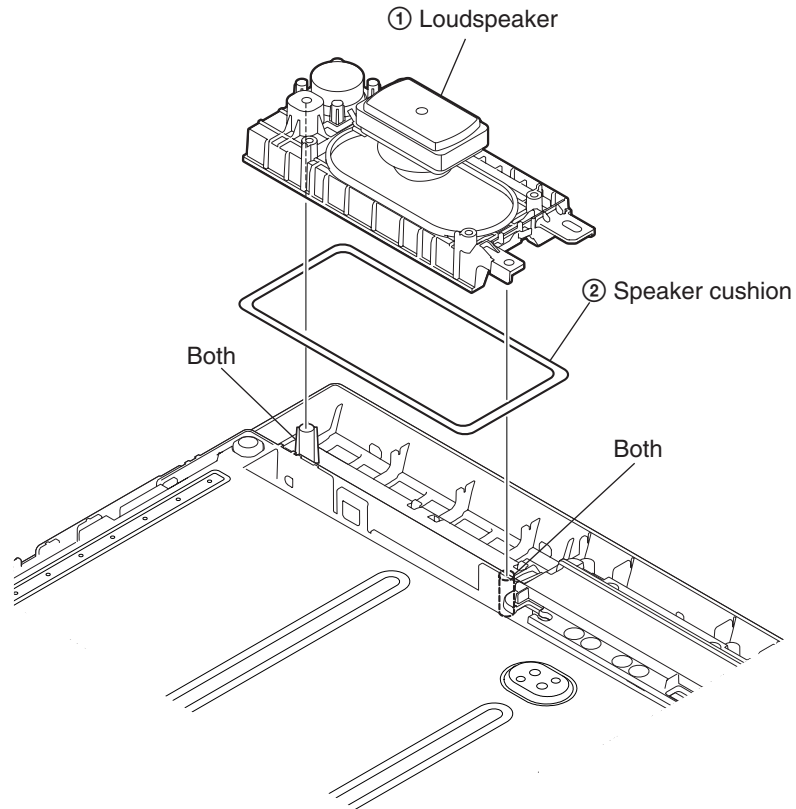
1-2-3. BG1G BOARD AND IP5 BOARD REMOVAL



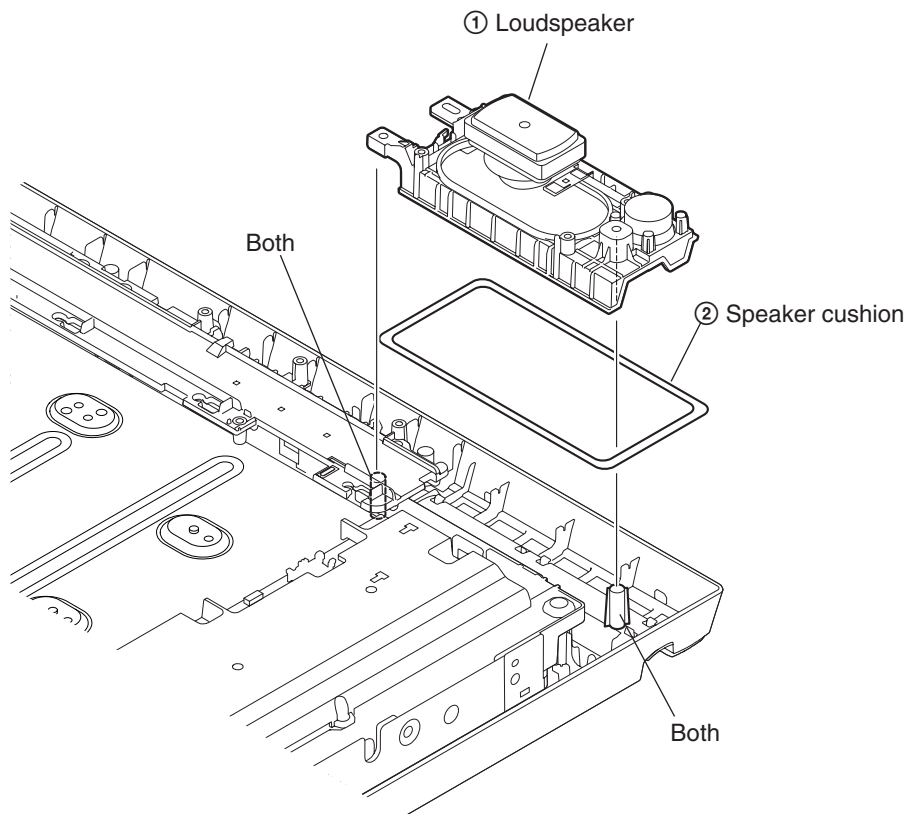
KLV-40W400A
1-2-4. FRAME REMOVAL



KLV-40W400A
1-2-5. SPEAKER (L) REMOVAL

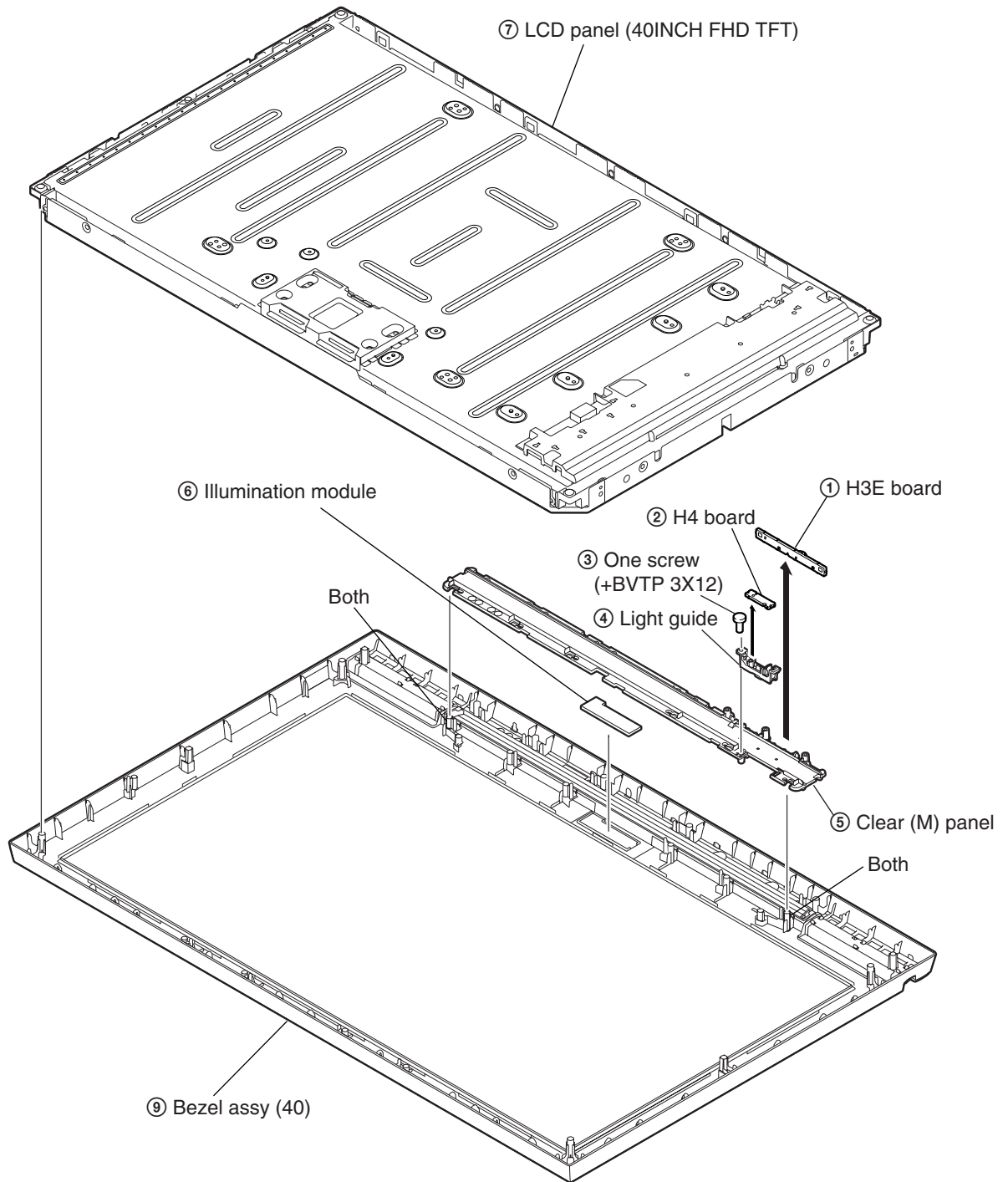


1-2-6. SPEAKER (R) REMOVAL

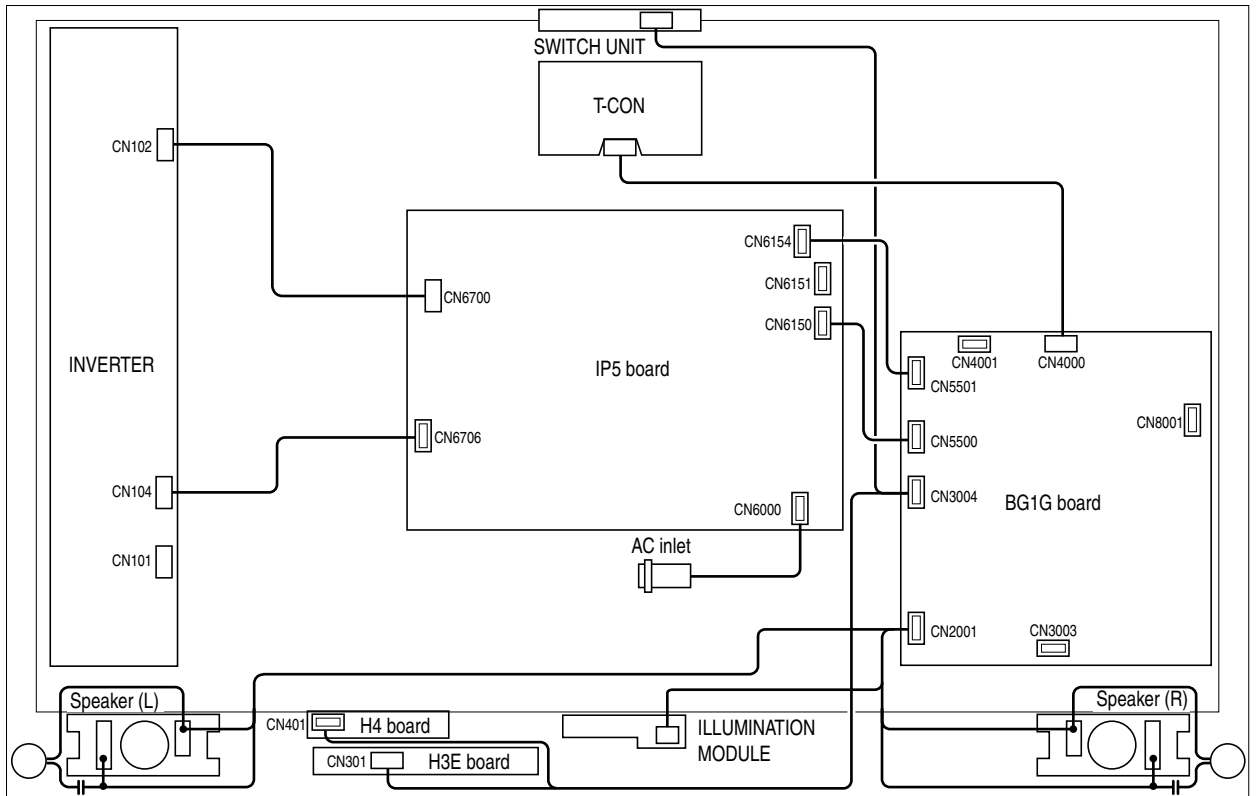


KLV-40W400A

1-2-7. LCD PANEL, H3E BOARD AND H4 BOARD REMOVAL

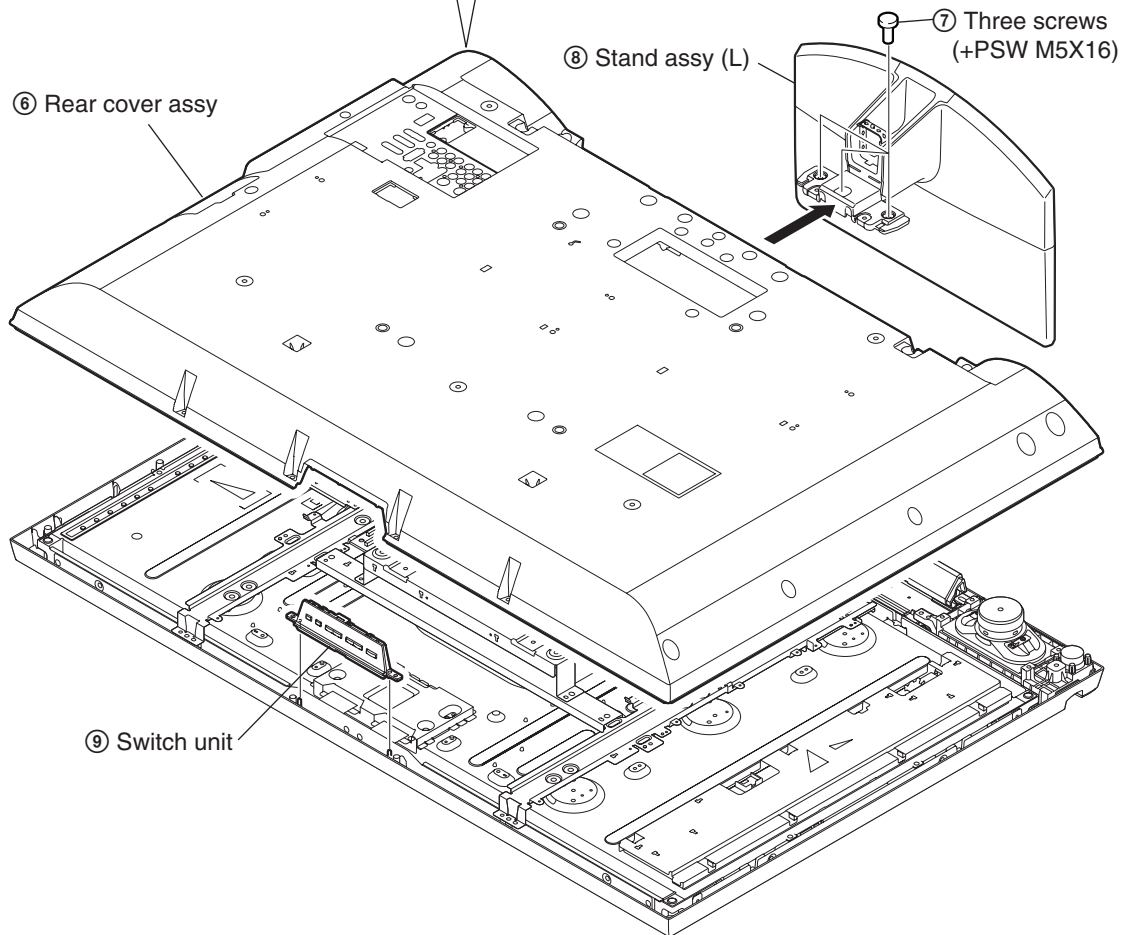
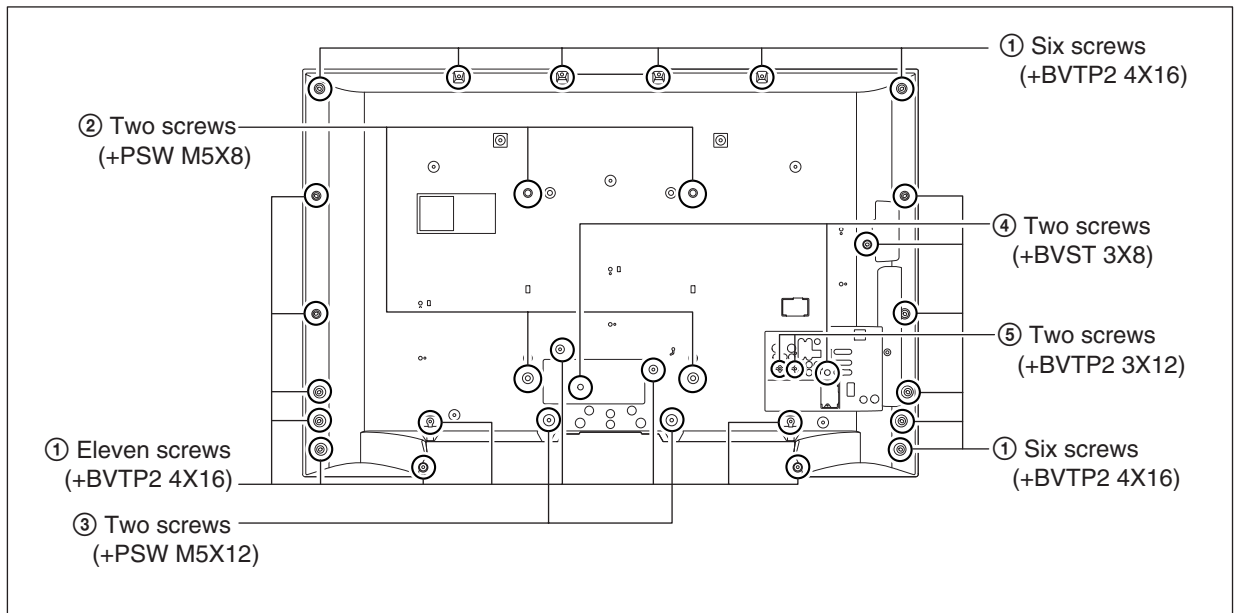


KLV-40W400A
1-2-8. WIRING LAYOUT



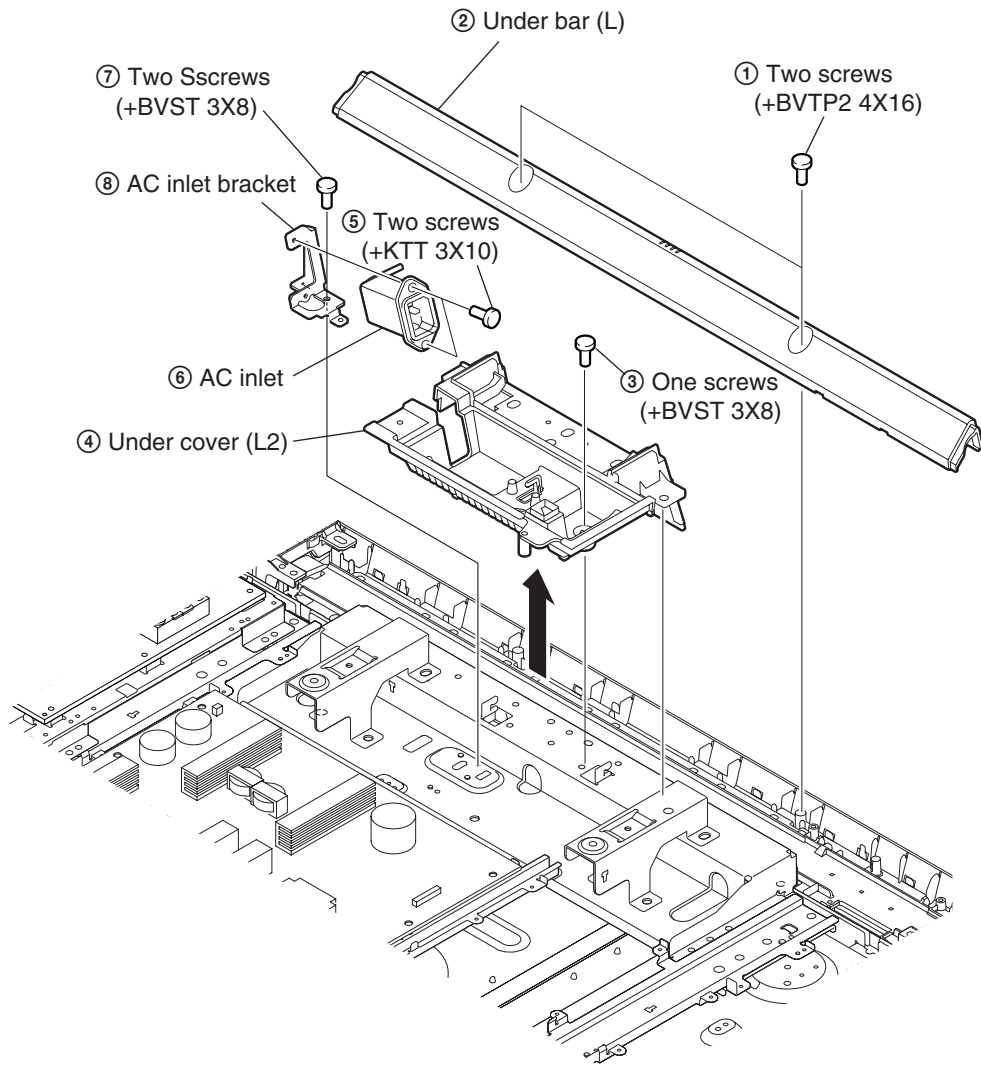
1-3. KLV-46W400A

1-3-1. REAR COVER AND STAND ASSY REMOVAL



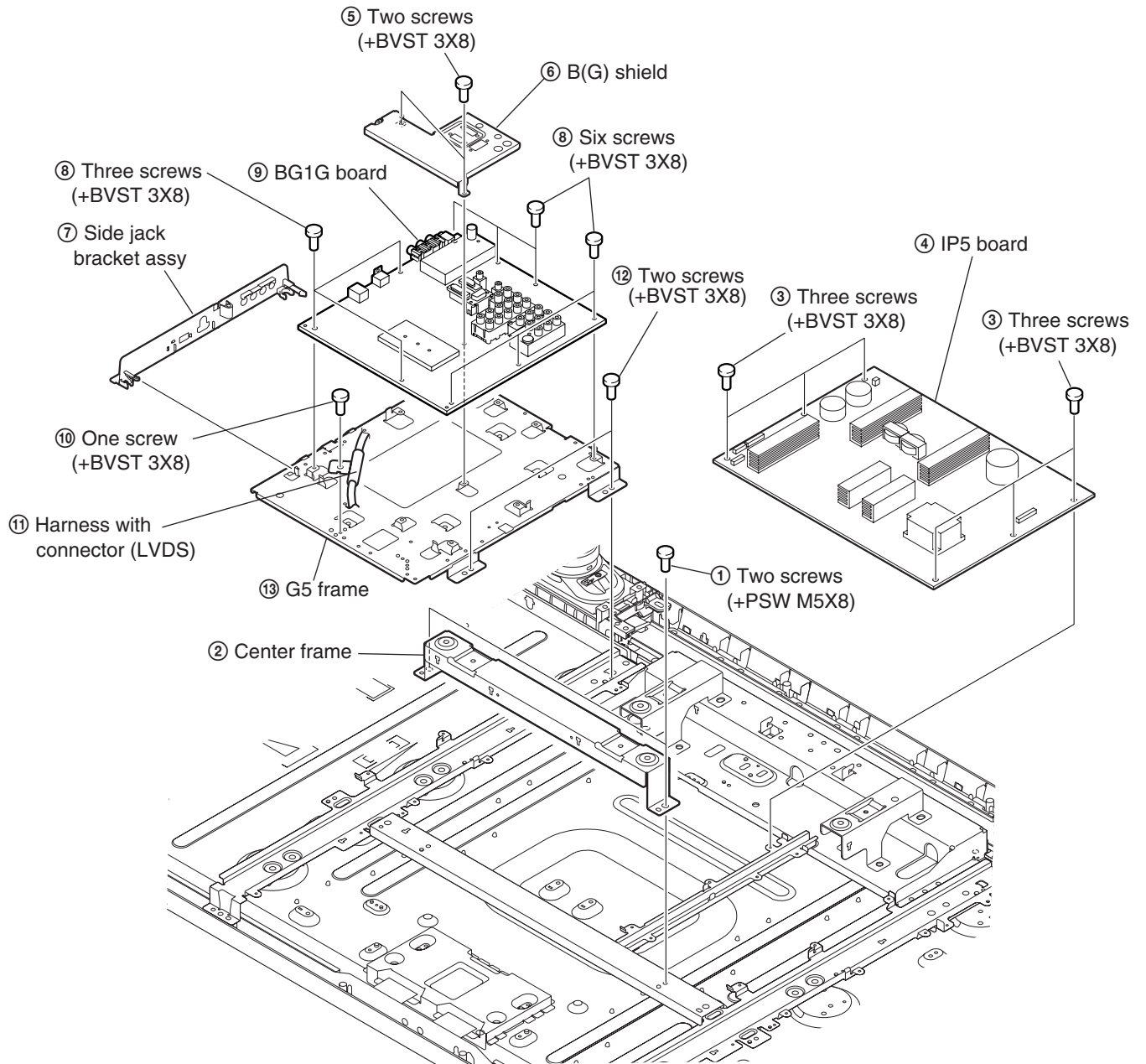
KLV-46W400A

1-3-2. AC INLET AND UNDER COVER REMOVAL



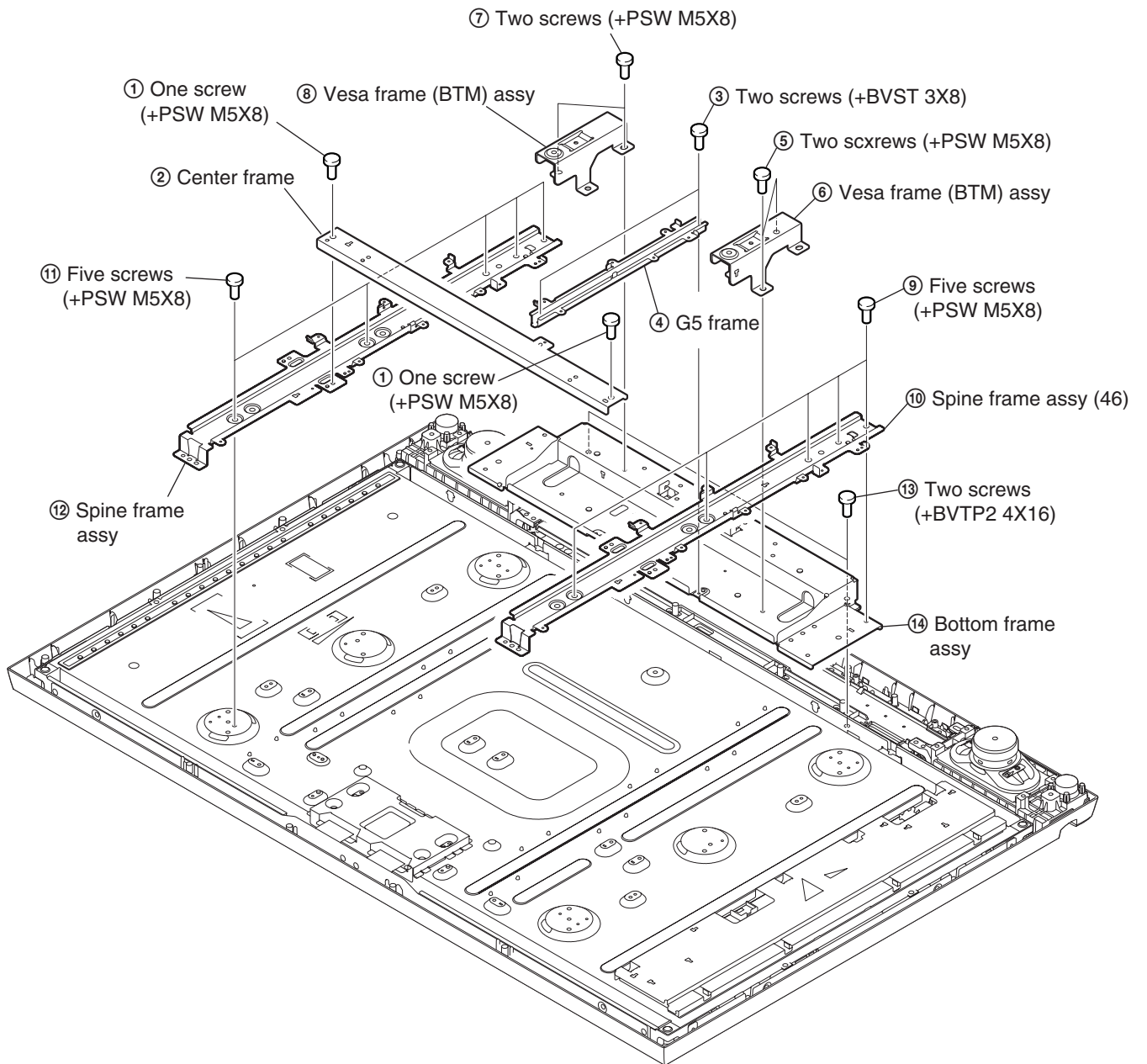
KLV-46W400A

1-3-3. BG1G BOARD AND IP5 BOARD REMOVAL

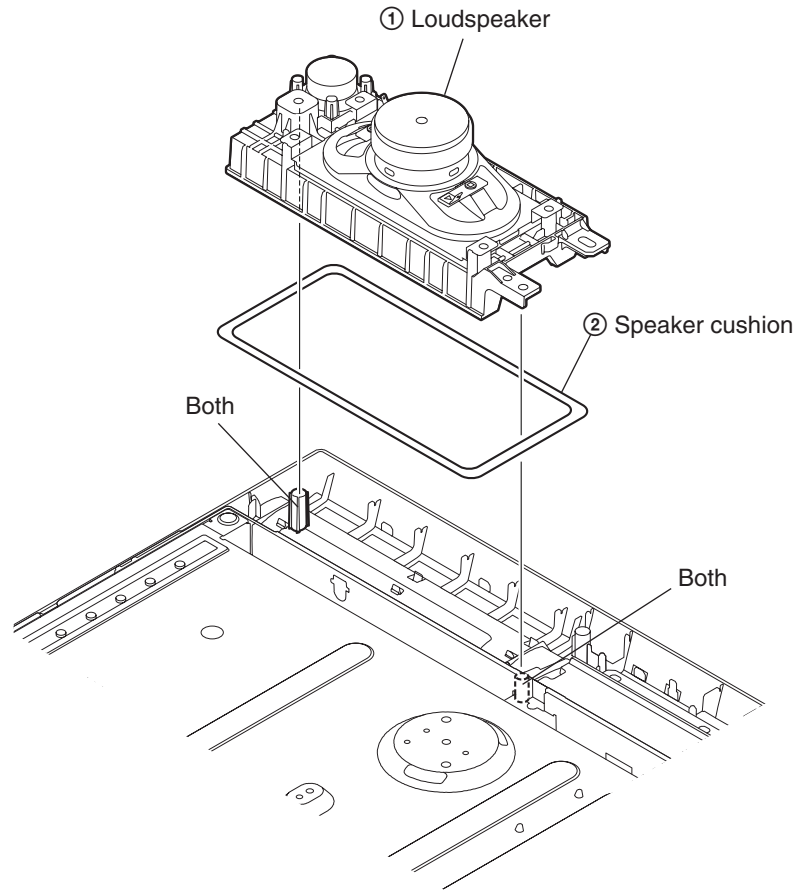


KLV-46W400A

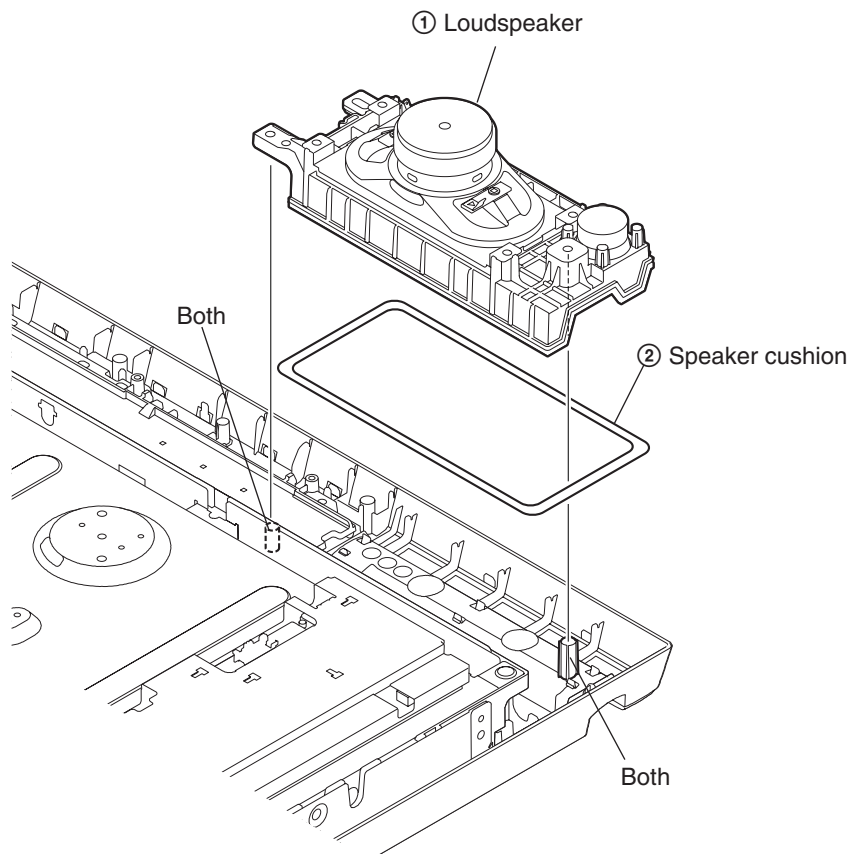
1-3-4. FRAME REMOVAL



KLV-46W400A
1-3-5. SPEAKER (L) REMOVAL

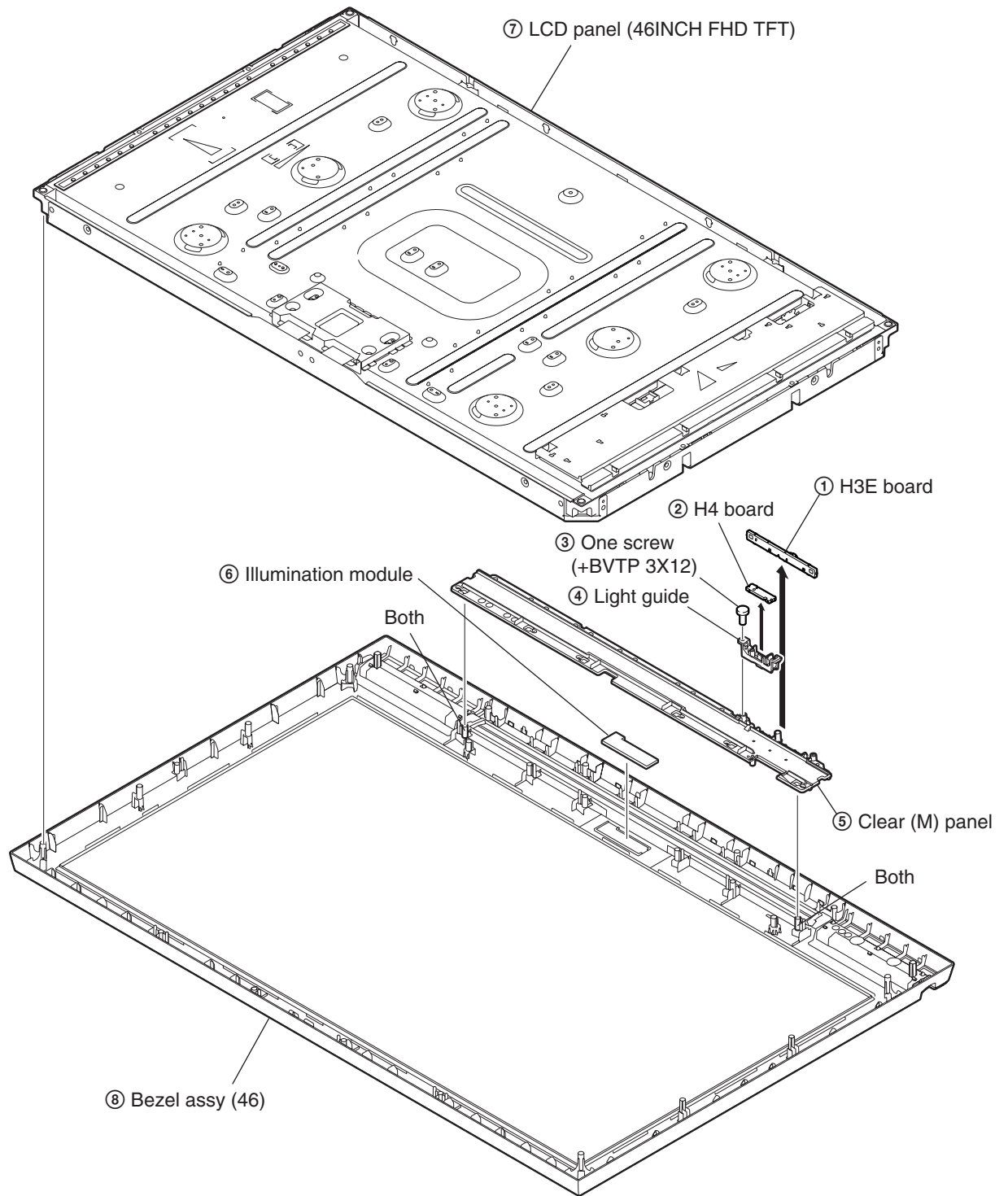


1-3-6. SPEAKER (R) REMOVAL

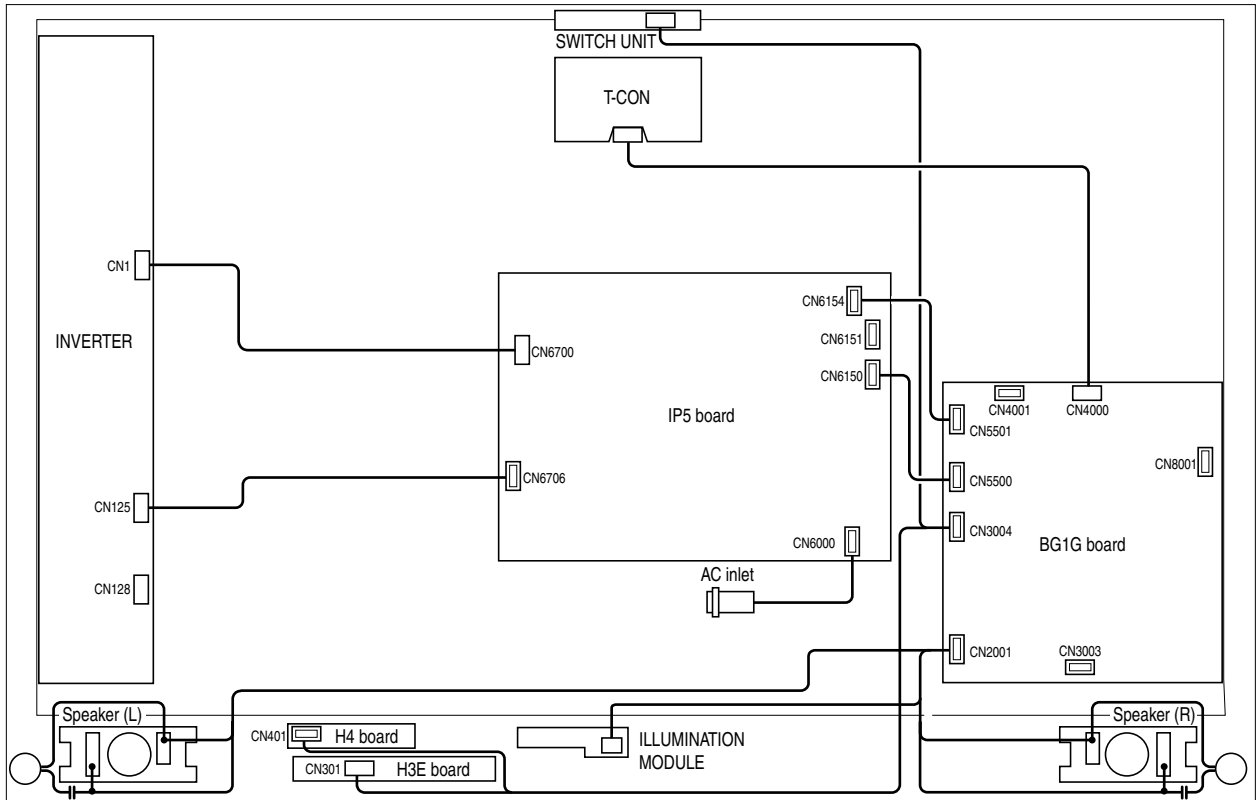


KLV-46W400A

1-3-7. LCD PANEL, H3E BOARD AND H4 BOARD REMOVAL

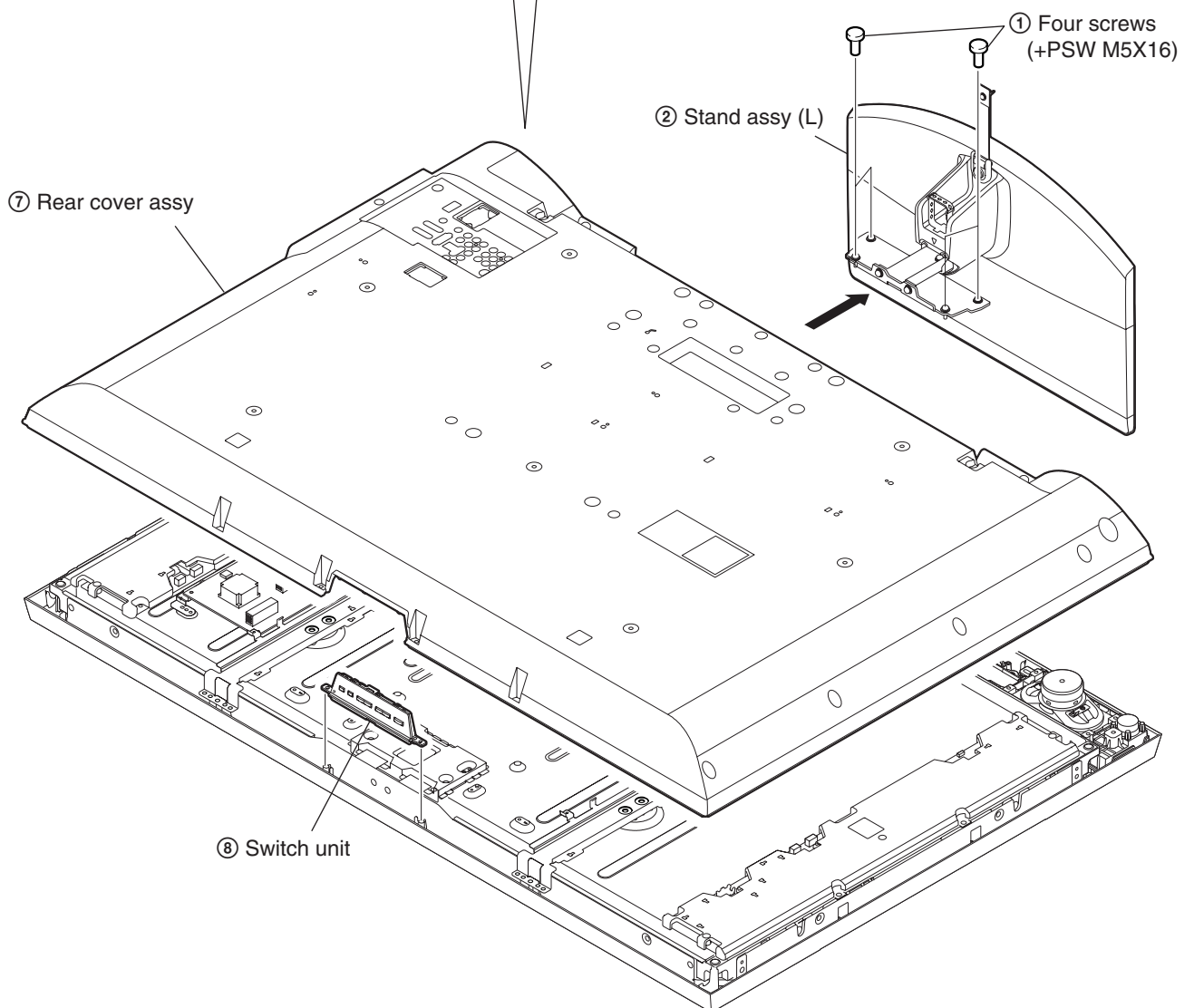
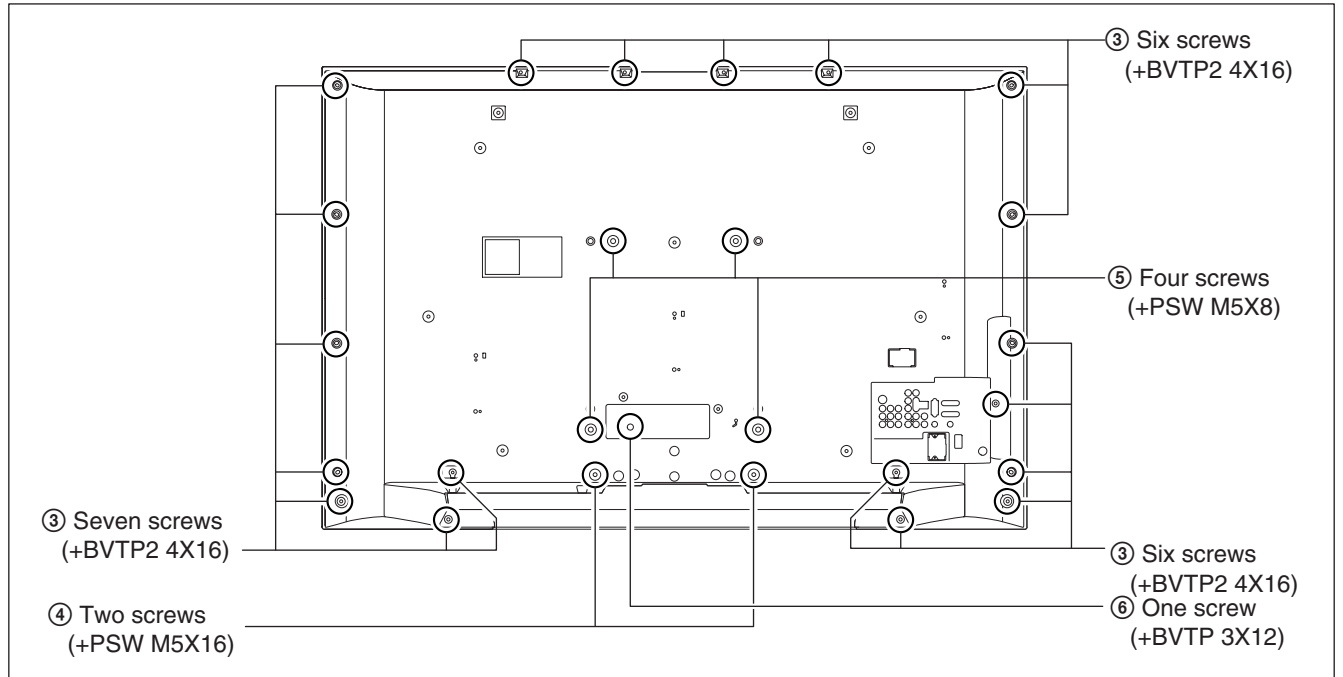


KLV-46W400A
1-3-8. WIRING LAYOUT



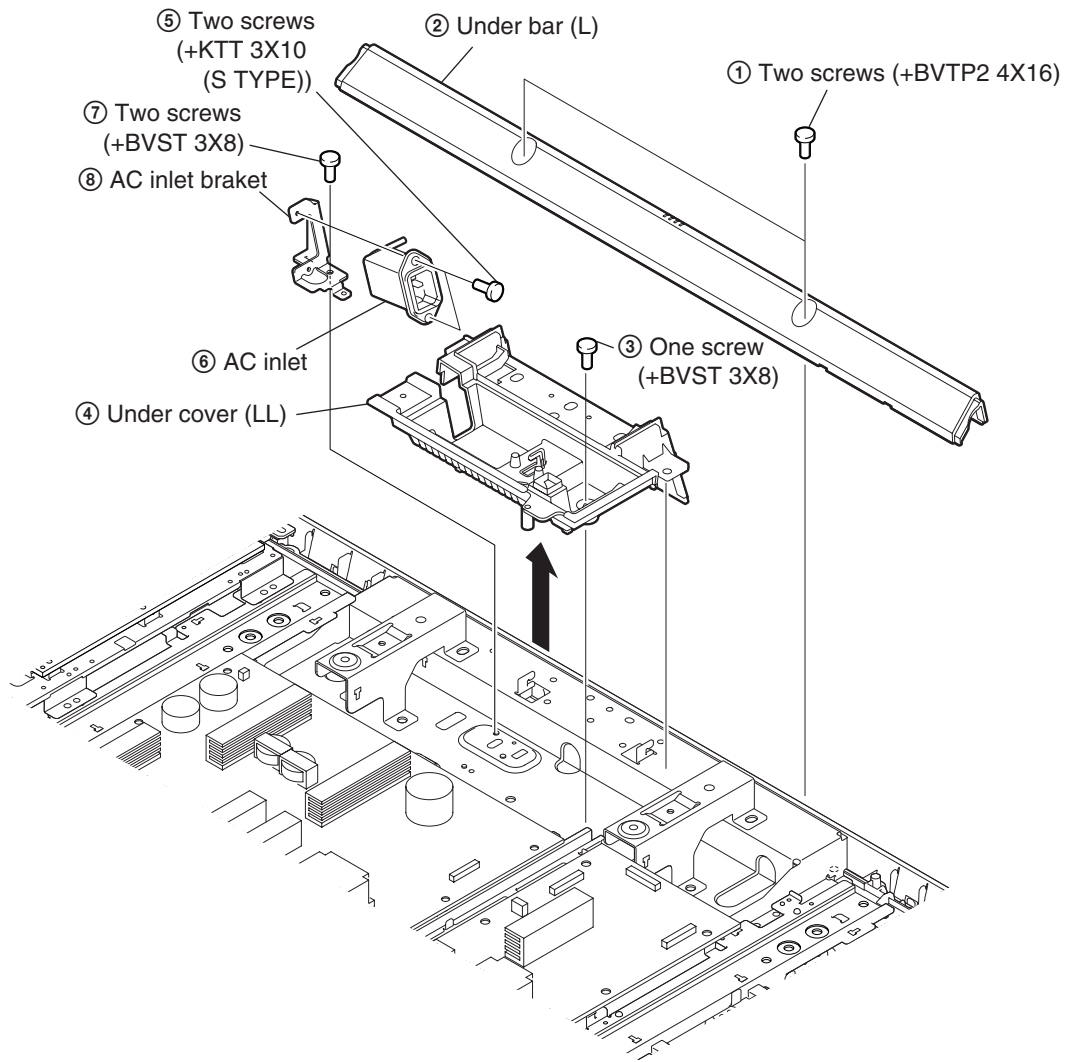
1-4. KLV-52W400A

1-4-1. REAR COVER AND STAND ASSY REMOVAL



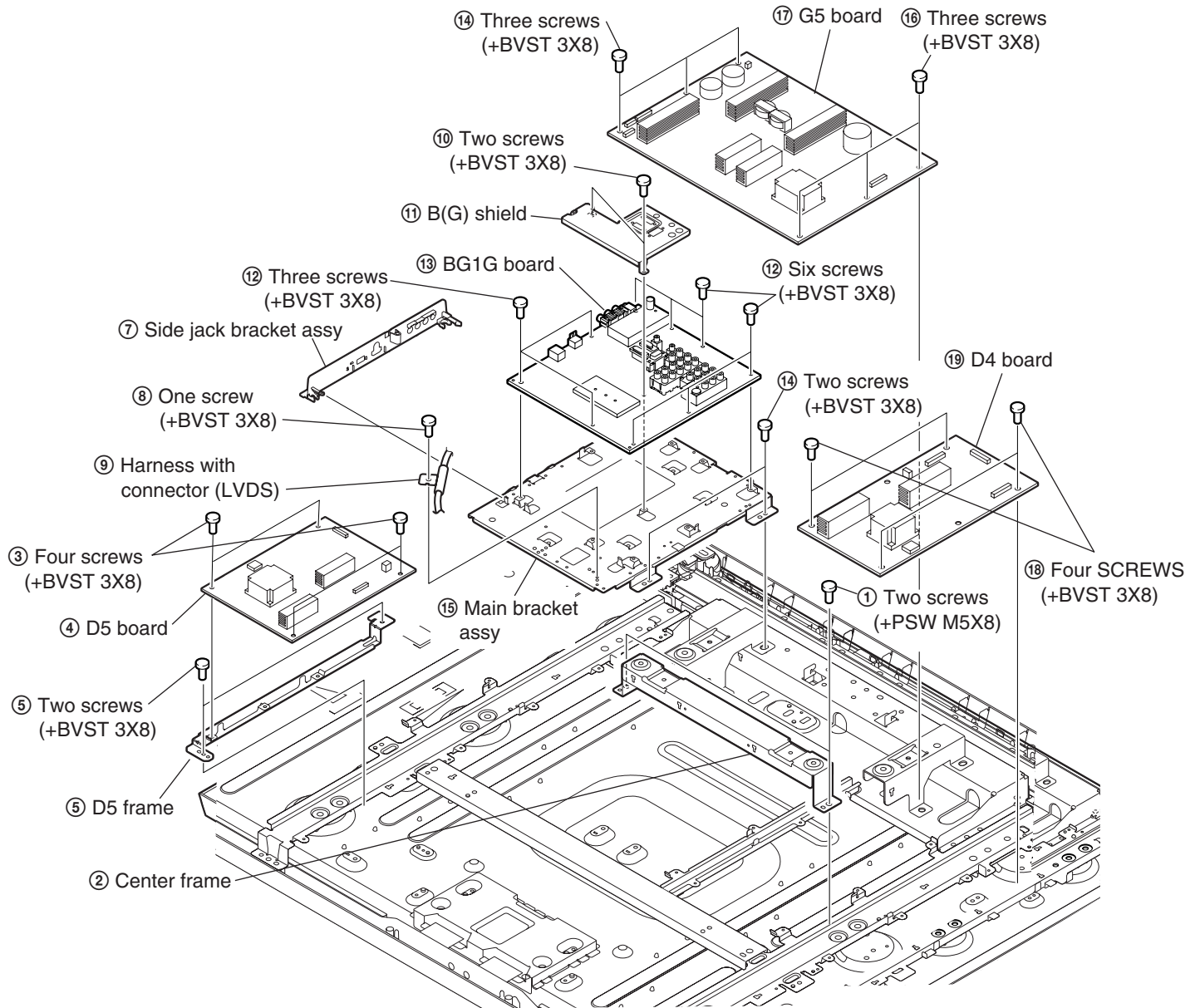
KLV-52W400A

1-4-2. AC INLET AND UNDER COVER REMOVAL



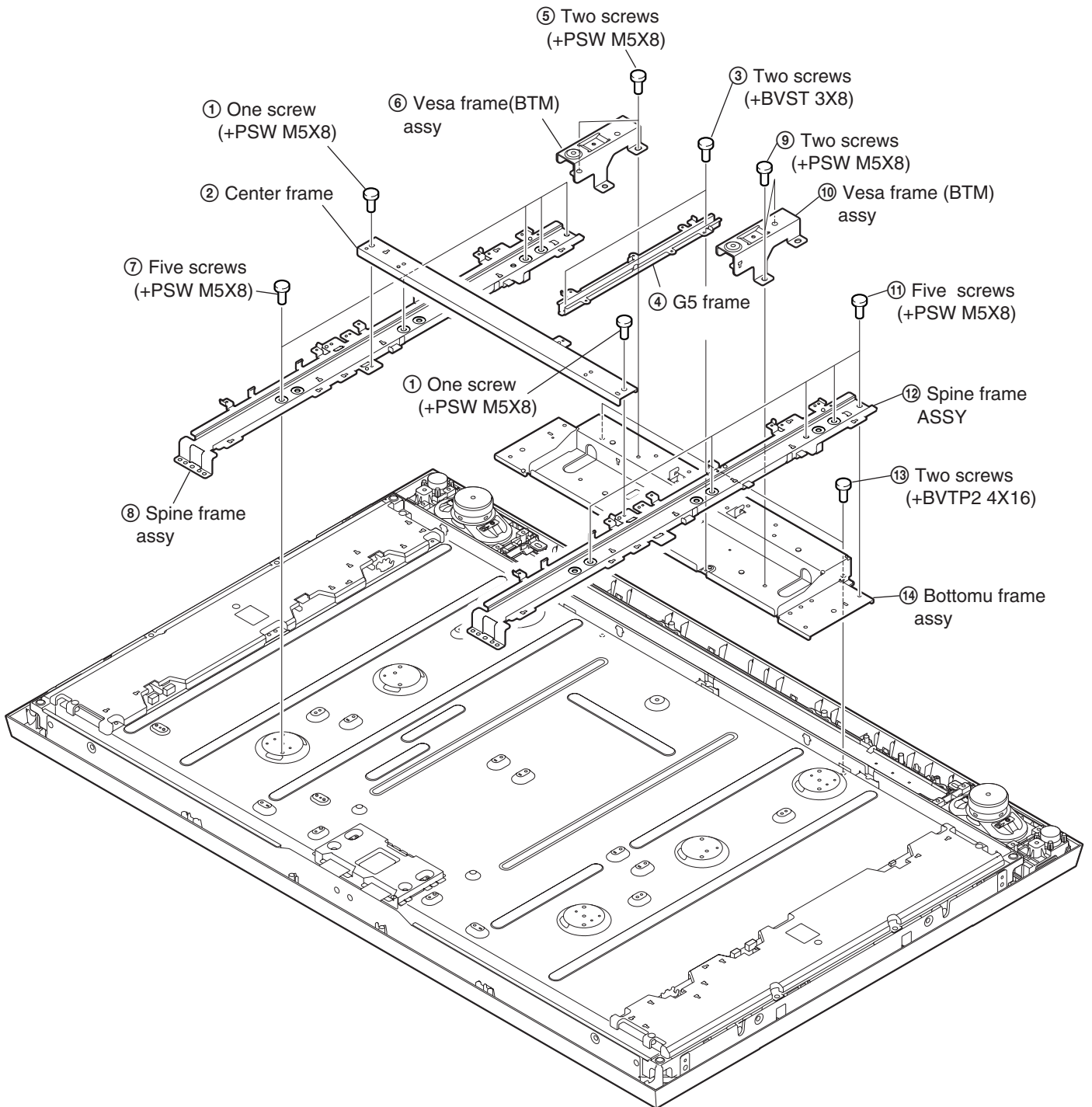
KLV-52W400A

1-4-3. D4, D5, G5 AND BG1B BOARDS REMOVAL

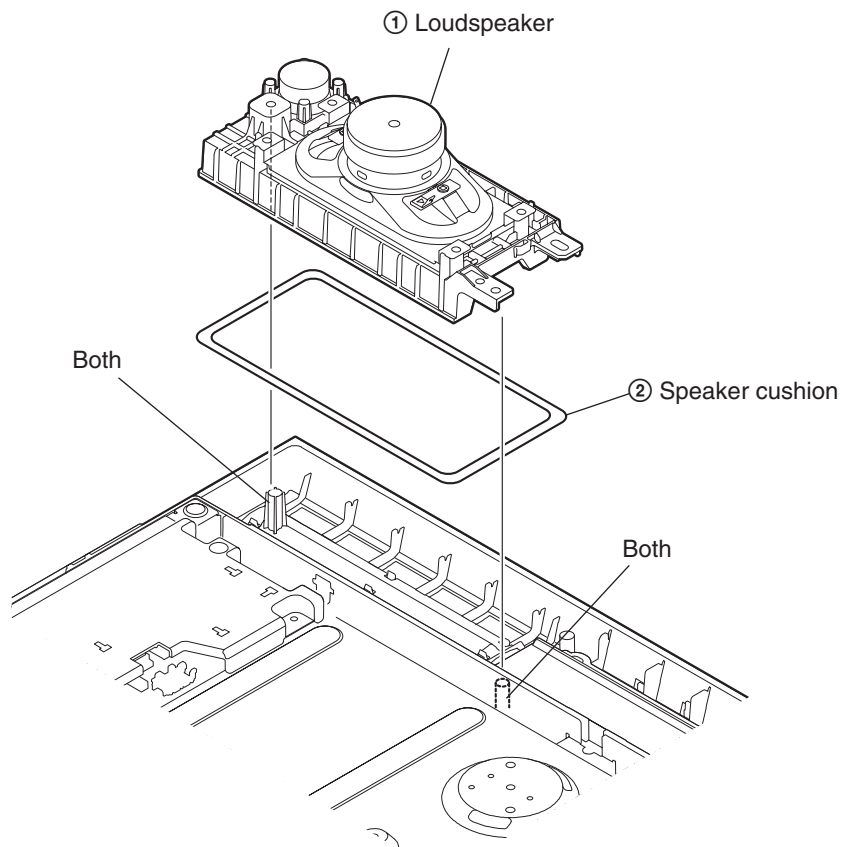


KLV-52W400A

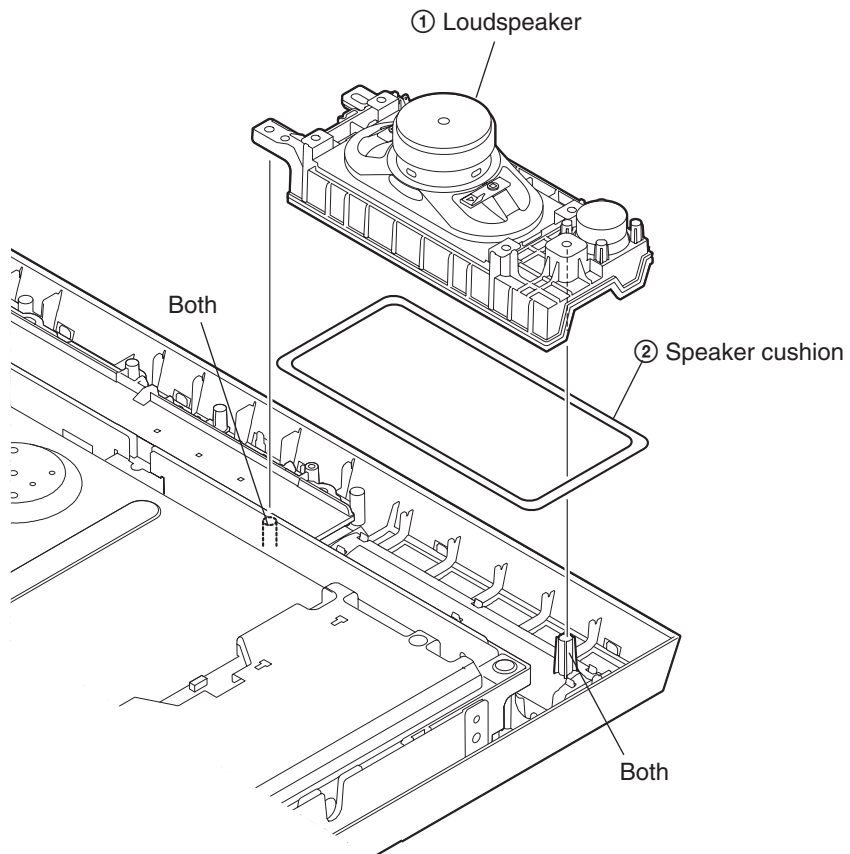
1-4-4. FRAME REMOVAL



KLV-52W400A
1-4-5. SPEAKER (L) REMOVAL

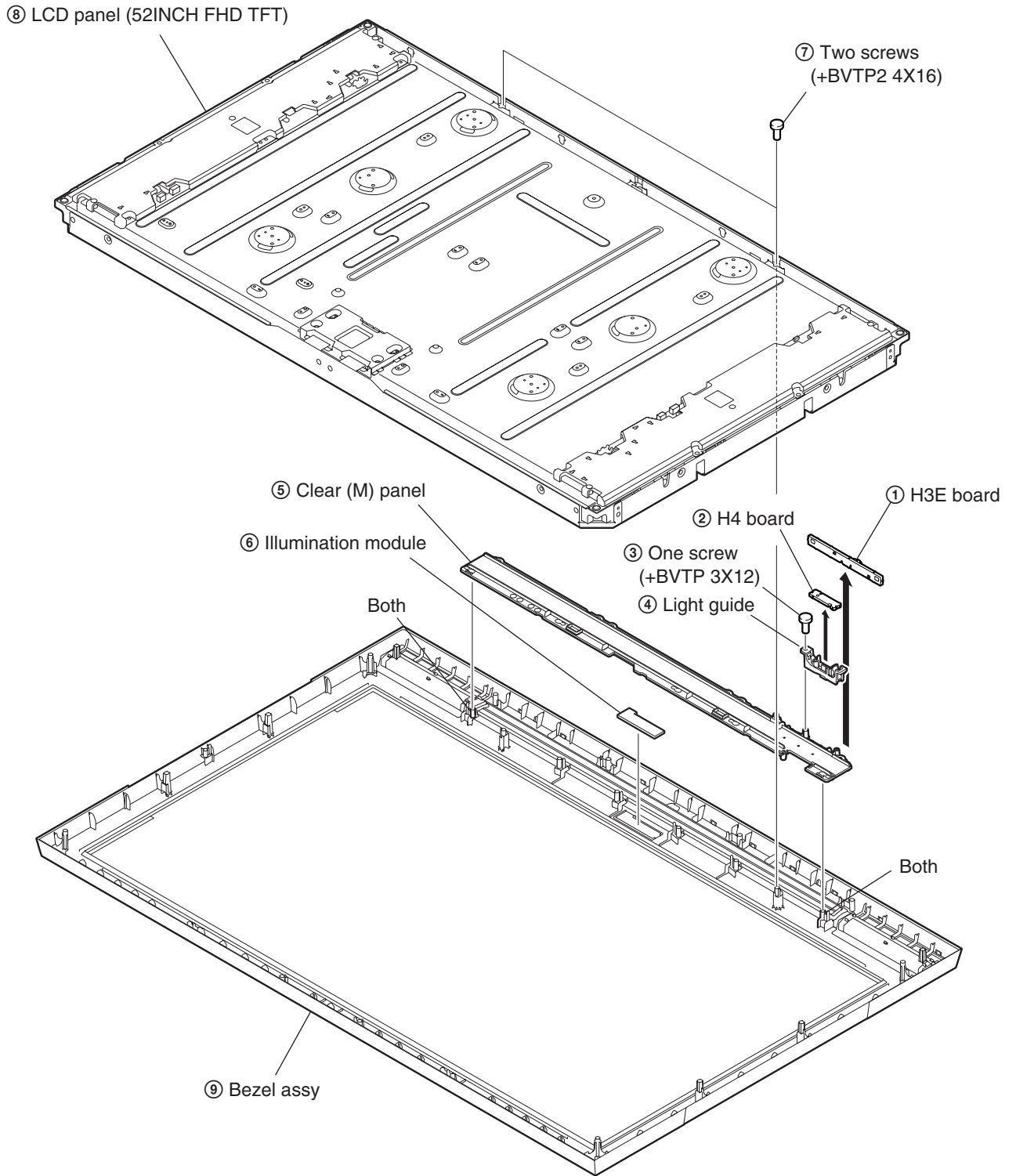


1-4-6. SPEAKER (R)

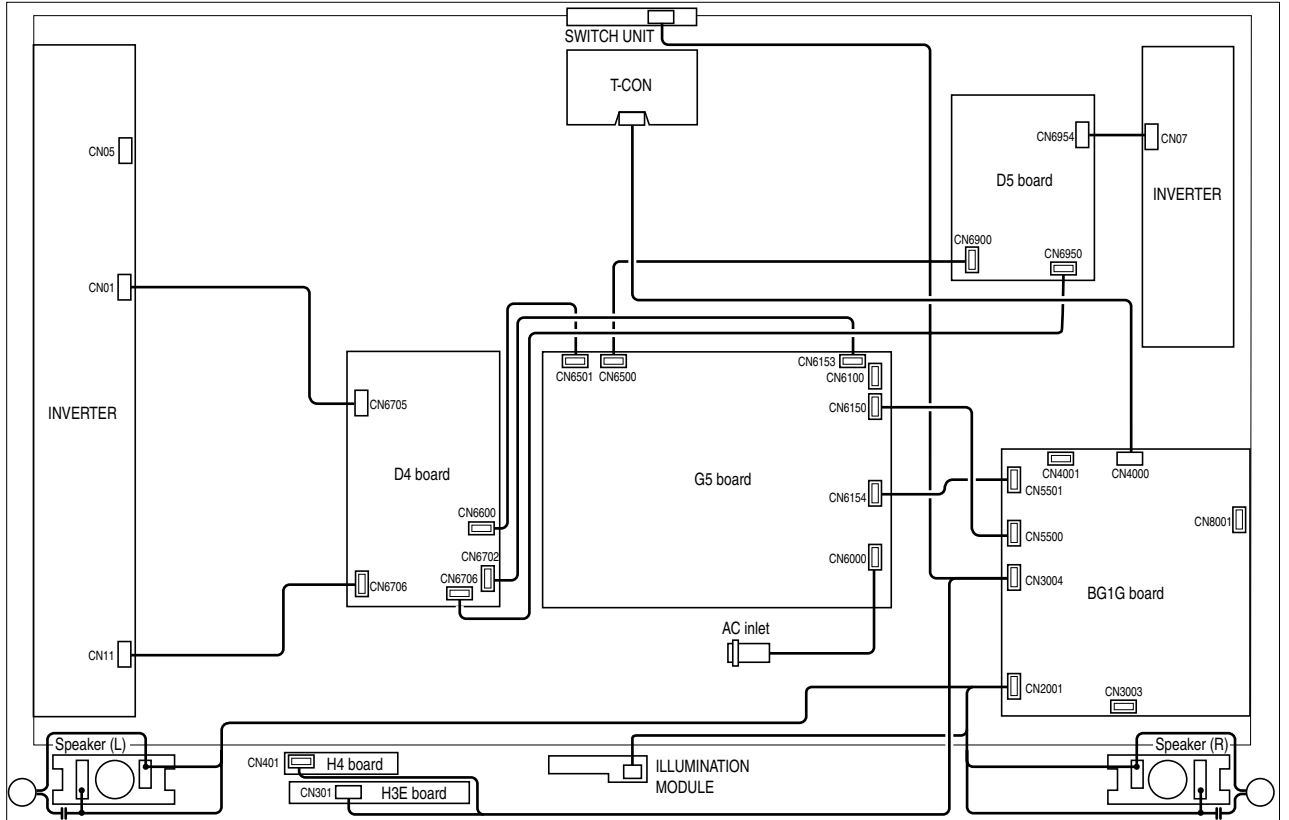


KLV-52W400A

1-4-7. LCD PANEL, H3E BOARD AND H4 BOARD REMOVAL



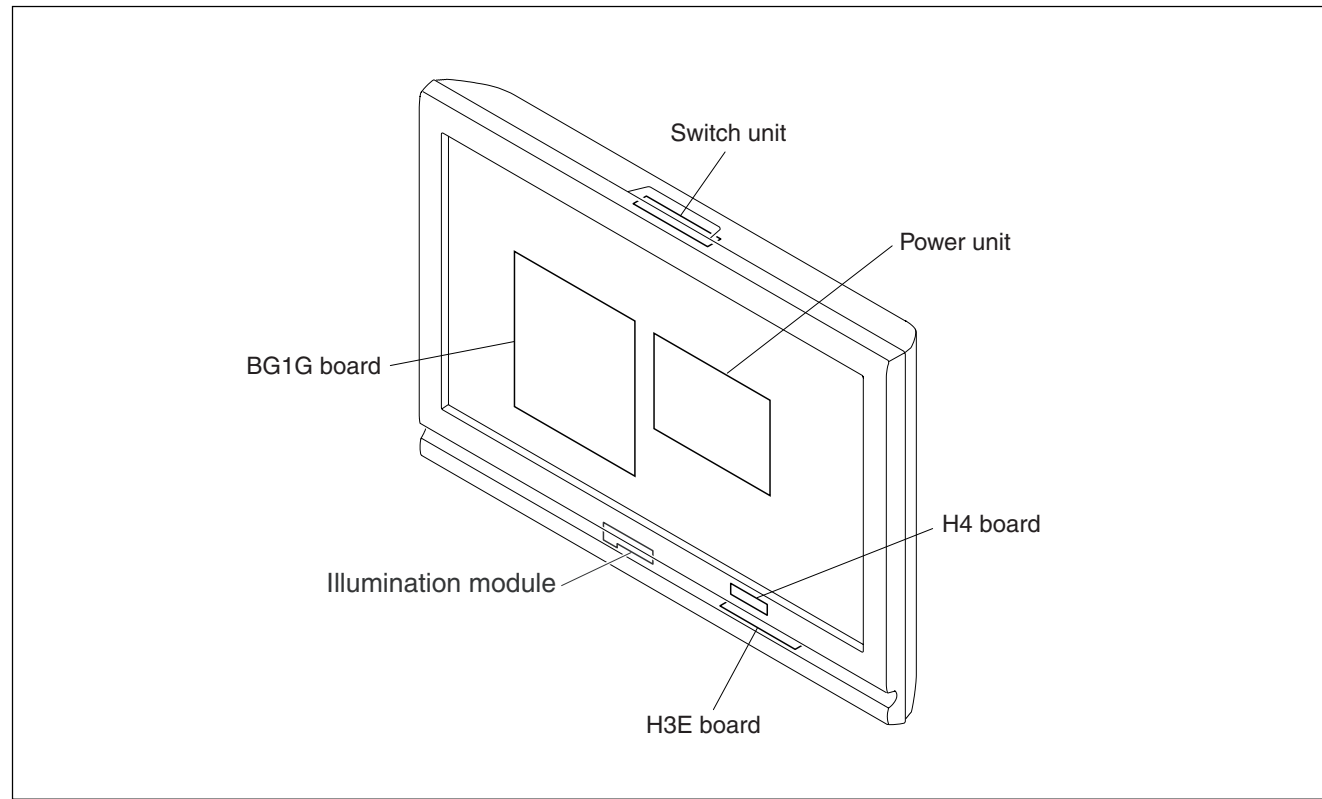
KLV-52W400A
1-4-8. WIRING LAYOUT



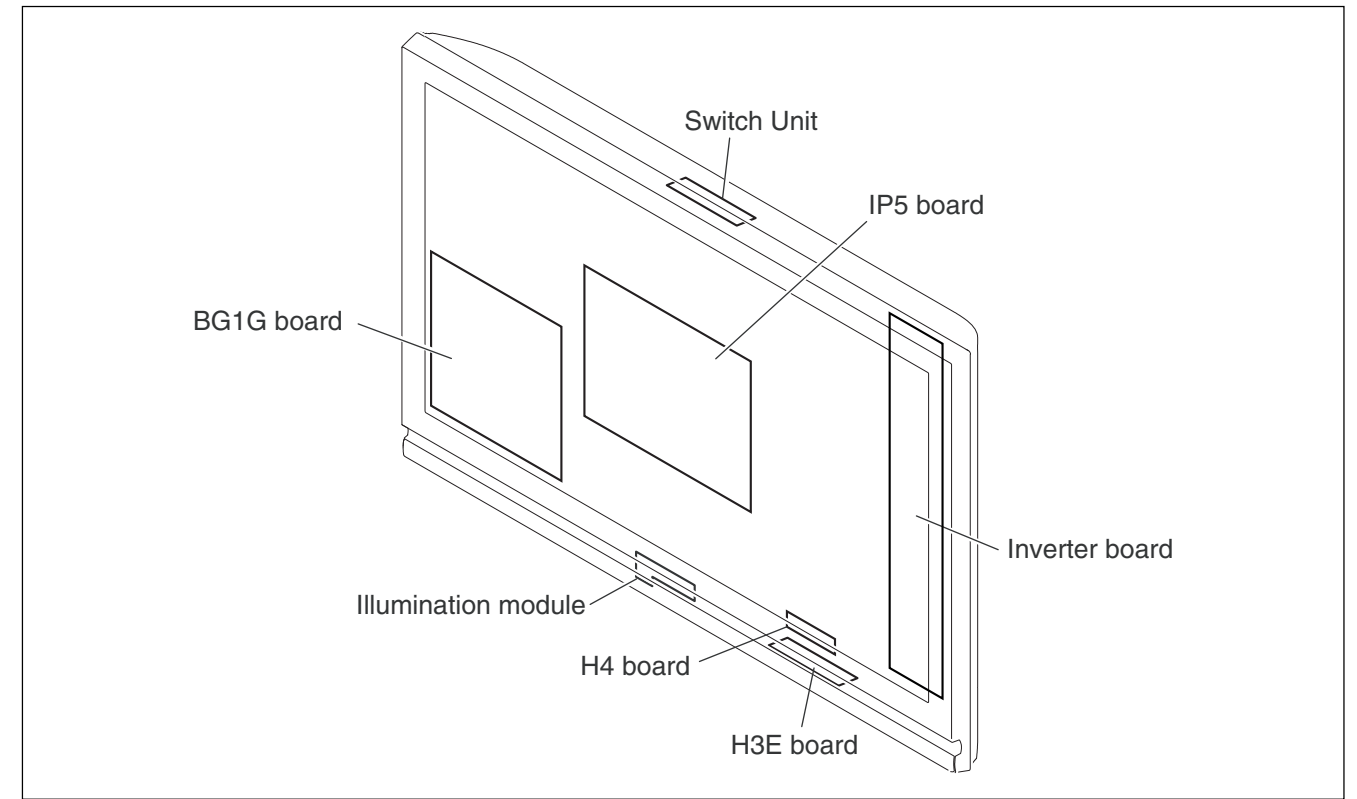
SECTION 2 DIAGRAMS

2-1. CIRCUIT BOARDS LOCATION

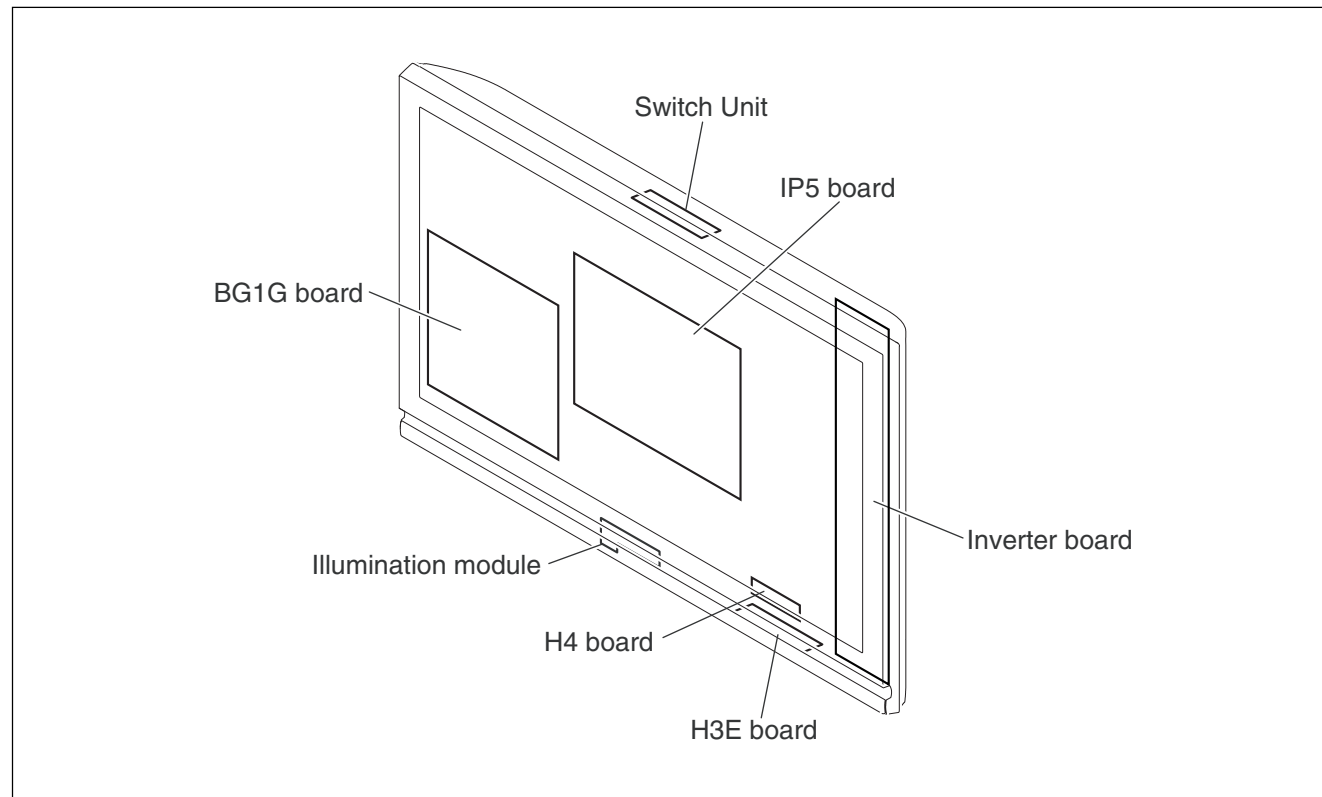
(1) KLV-32W400A



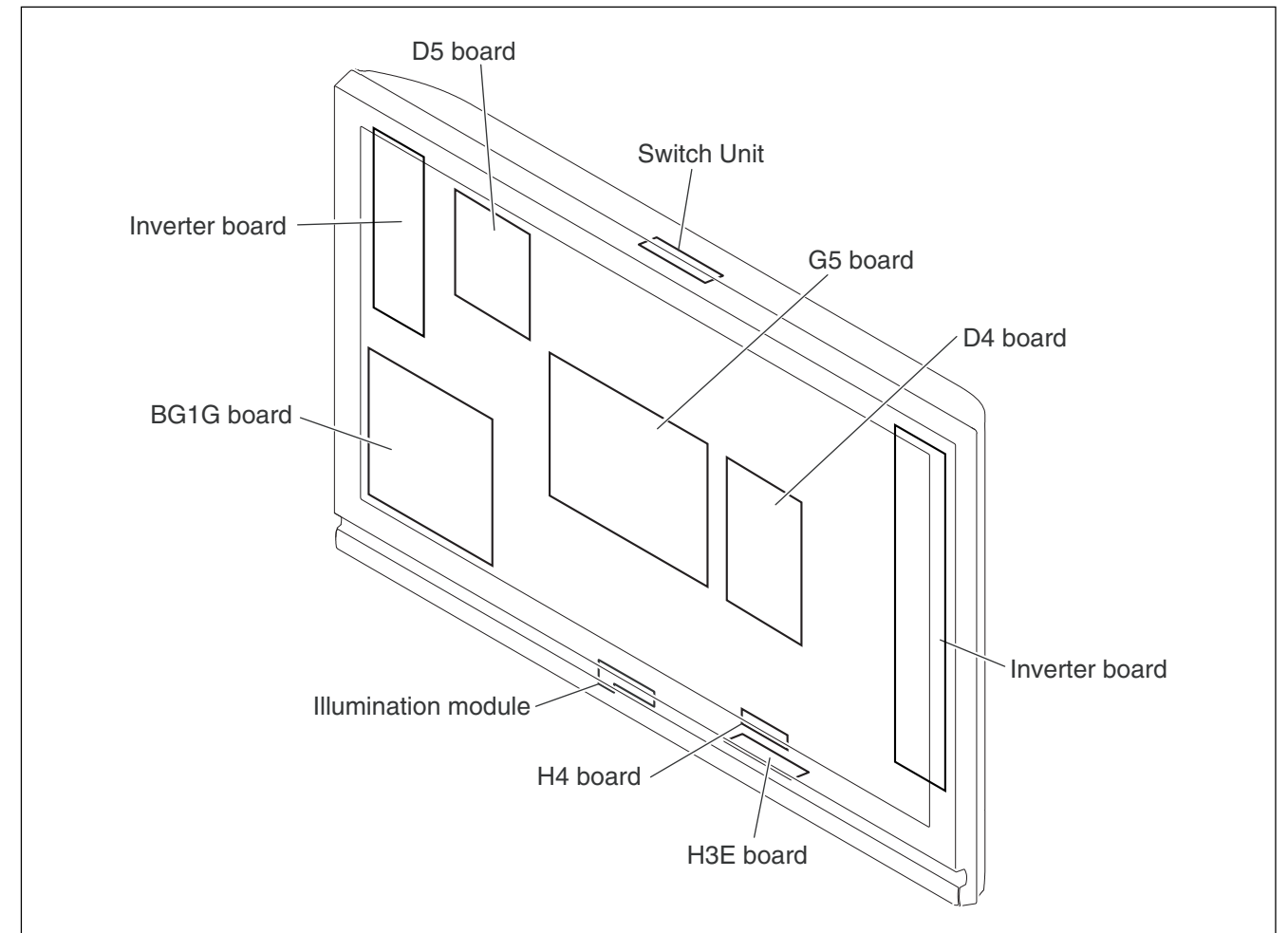
(3) KLV-46W400A



(2) KLV-40W400A

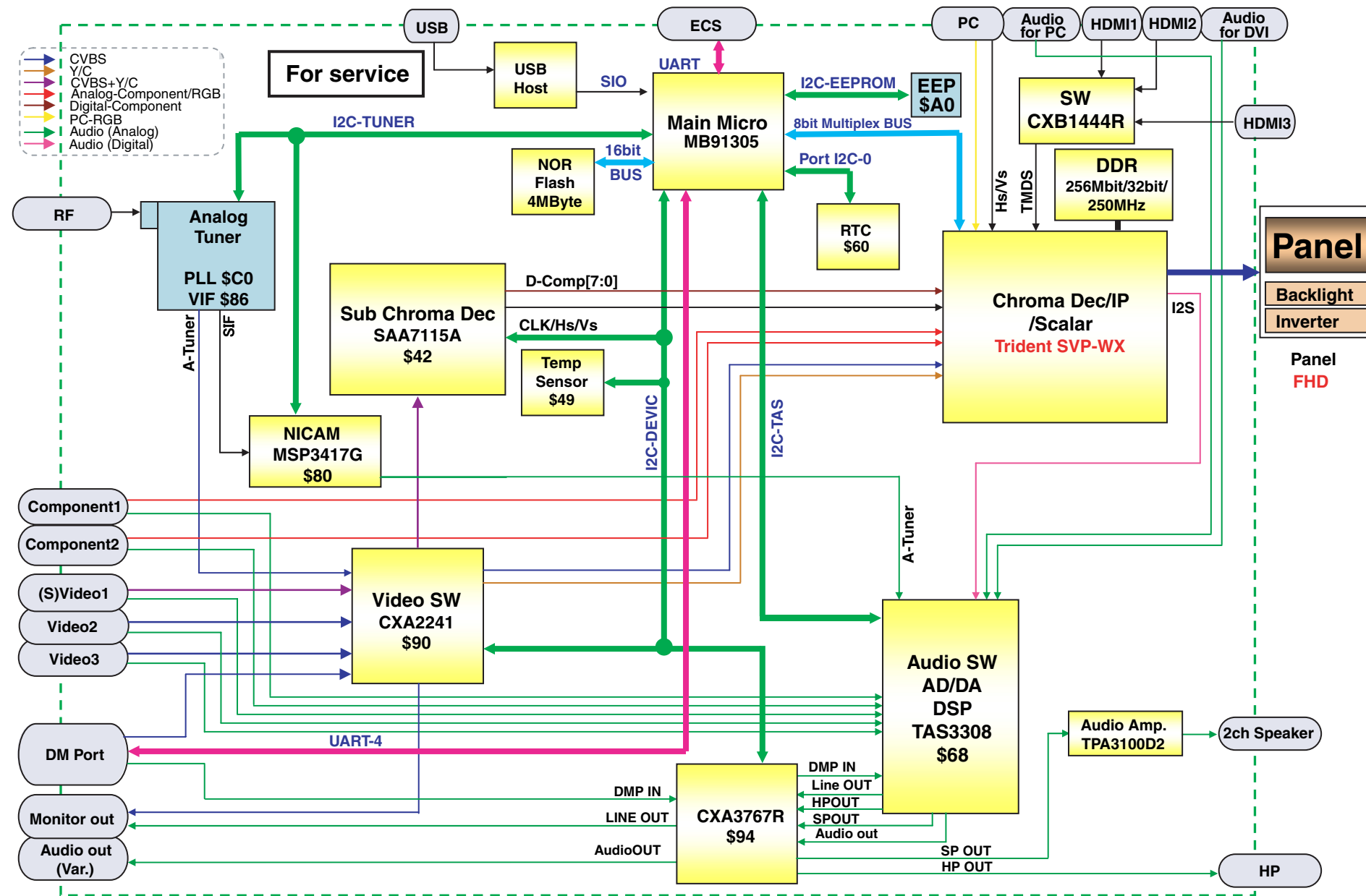


(4) KLV-52W400A




2-2. BLOCK DIAGRAM


(1) BG1G Board



SECTION 3 EXPLODED VIEWS

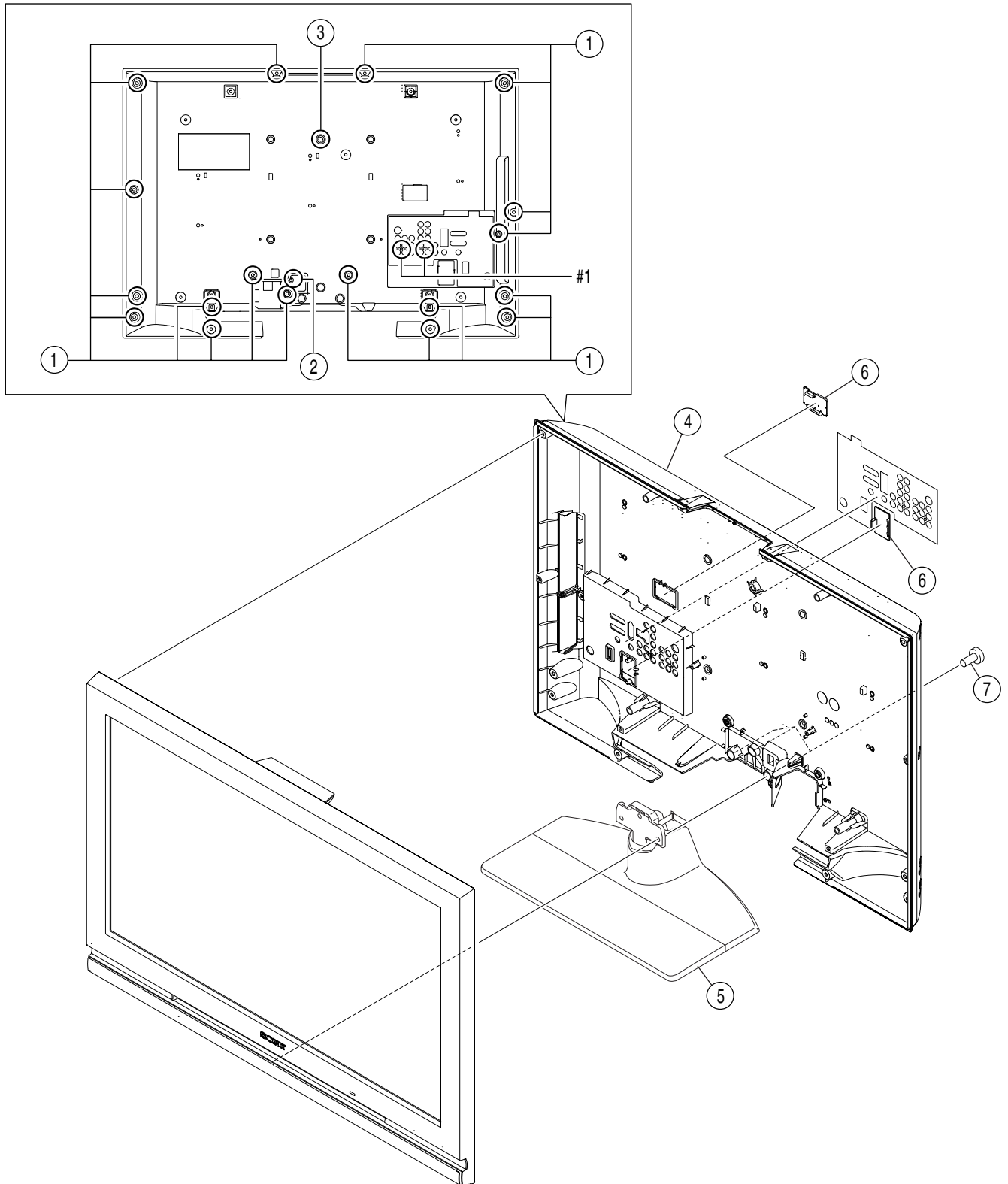
NOTE:

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.

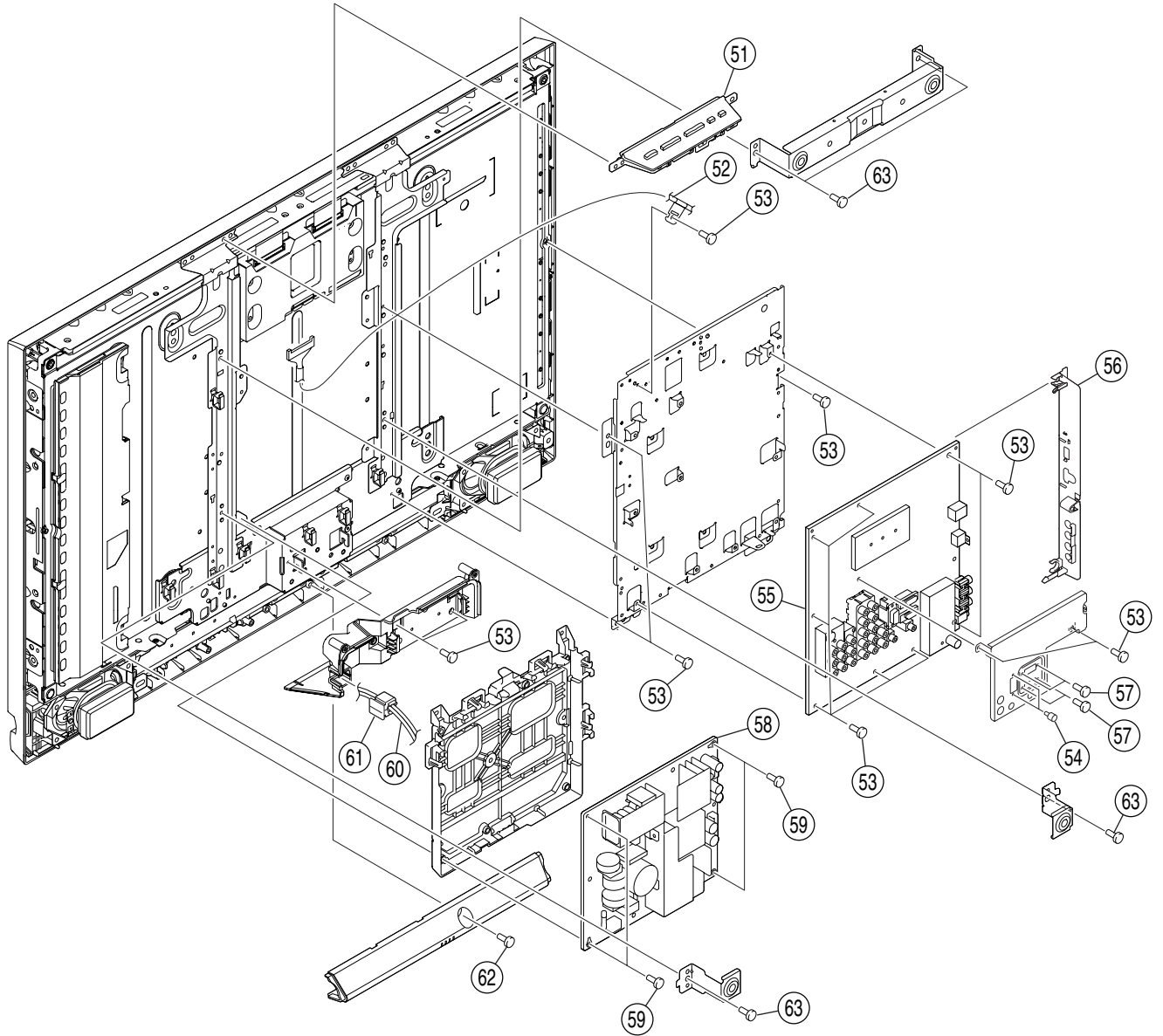
3-1. KLV-32W400A
3-1-1. REAR COVER AND STAND ASSY








REF. No.	PART No.	DESCRIPTION	MARK
1	2-580-640-01	SCREW, +BVTP2 4X16	
2	2-580-629-01	SCREW, +BVST 3X8	
3	2-580-606-01	SCREW, +PSW M5X8	
4	△ X-2189-293-1	REAR COVER (32) ASSY	
5	X-2189-409-1	STAND (M) ASSY	

REF. No.	PART No.	DESCRIPTION	MARK
6	* 3-106-086-02	COVER, ECS	
7	2-580-608-01	SCREW, +PSW M5X16	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KLV-32W400A
3-1-2. CHASSIS-1

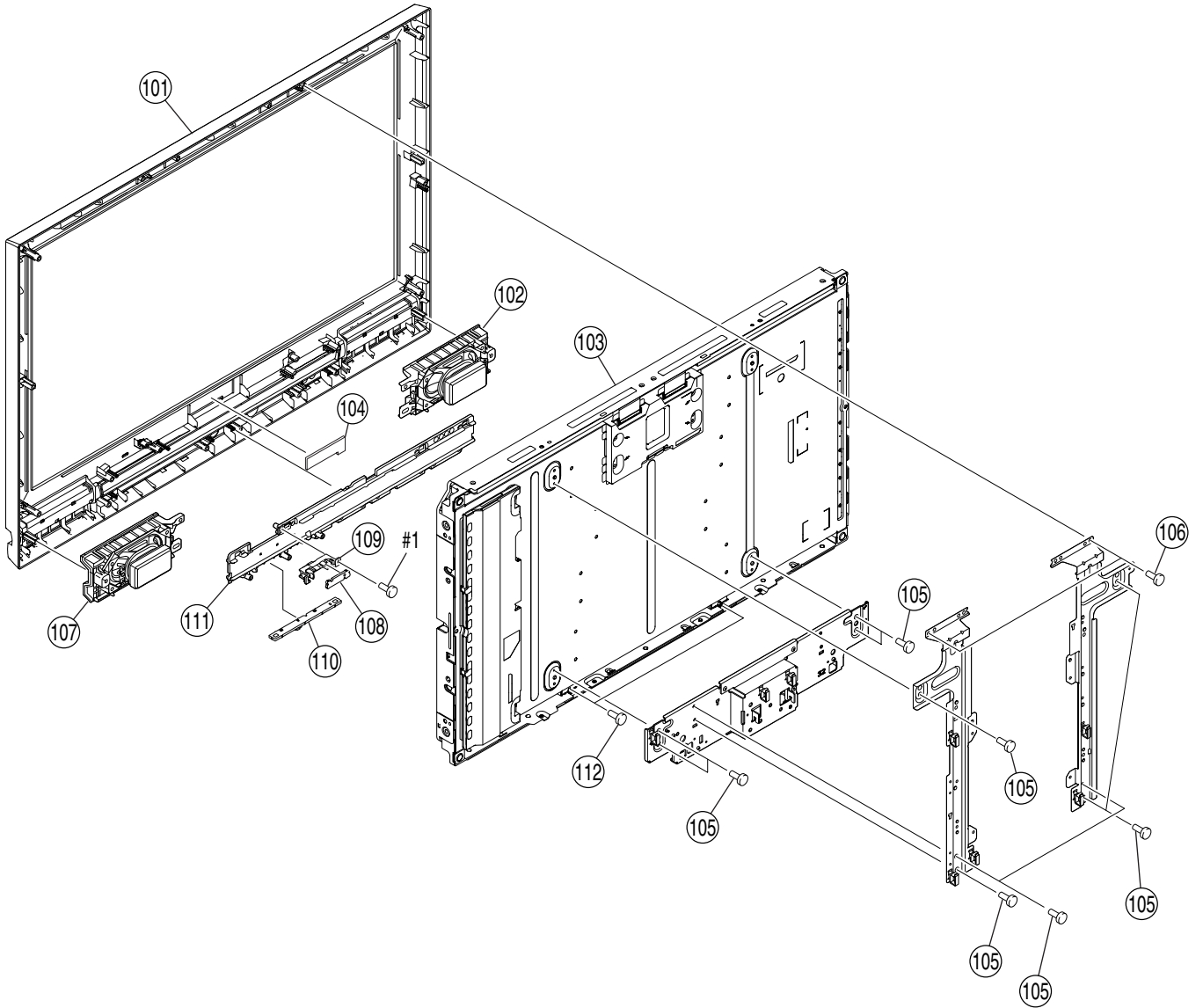


The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
51	1-480-709-11	SWITCH UNIT	
52	1-966-049-11	HARNESS WITH CONNECTOR (LVDS)	
53	2-580-629-01	SCREW, +BVST 3X8	
54	2-580-626-01	SCREW, SP 4-40 UNC	
55	 A-1512-199-A	BG1G COMPL	
56	X-2318-263-1	SIDE JACK BRACKET (EX1) ASSY	
57	2-580-590-01	SCREW, +PSW M3X5	
58	1-474-099-11	POWER UNIT	
59	2-674-965-31	SCREW, +PSW 3SG	
60	 1-835-127-11	POWER SUPPLY (WITH CONNECTOR) (Thailand)	
	 1-835-280-11	POWER SUPPLY (WITH CONNECTOR) (India)	
	 1-835-136-11	POWER SUPPLY (WITH CONNECTOR) (E, Saudi arabia, Middle East, Indonesia, Saudi arabia, Philippines)	

REF. No.	PART No.	DESCRIPTION	MARK
61	4-022-115-00	HOLDER, AC CORD	
62	2-580-640-01	SCREW, +BVTP2 4X16	
63	2-580-600-01	SCREW, +PSW M4X8	

KLV-32W400A
3-1-3. CHASSIS-2

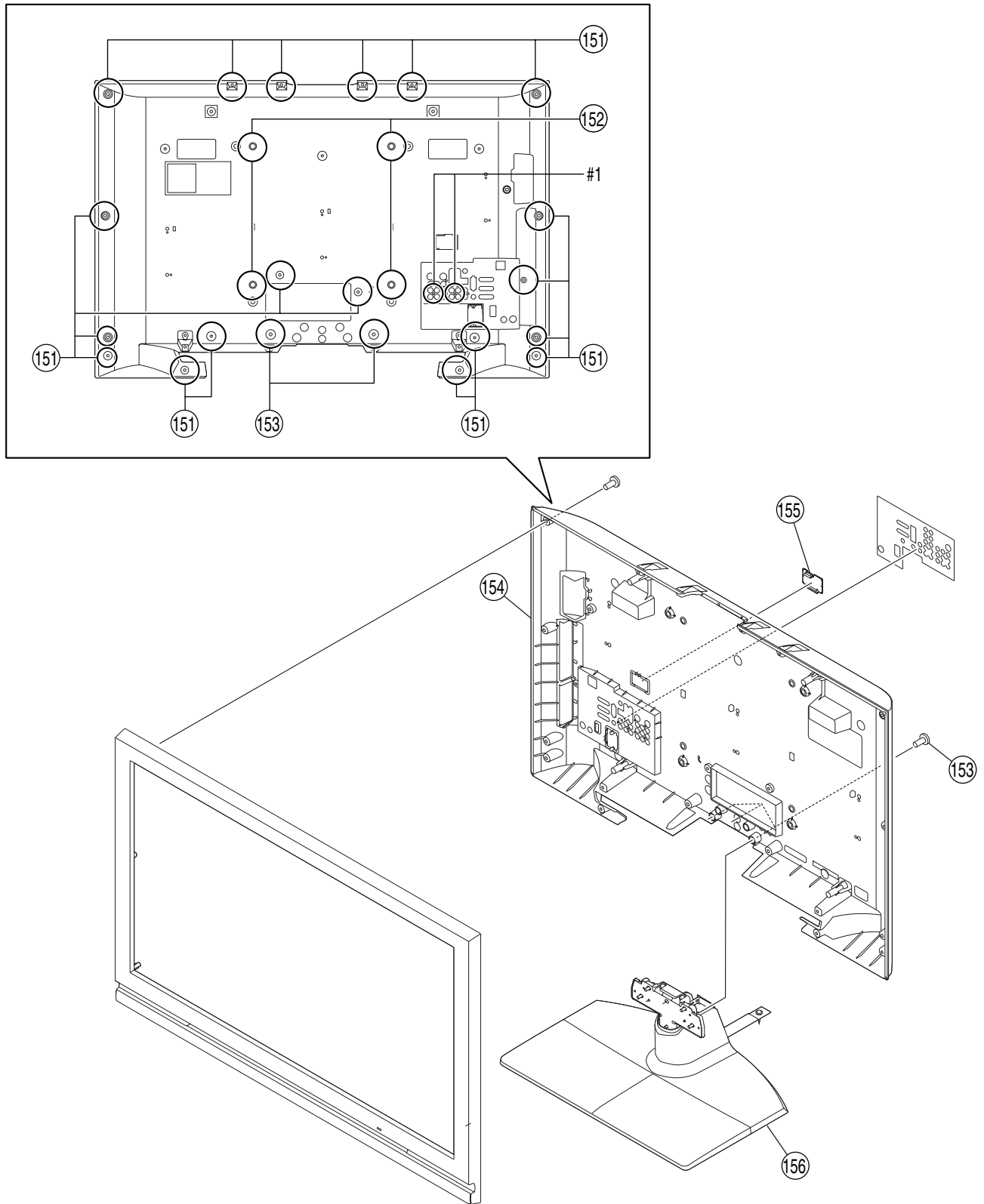


REF. No.	PART No.	DESCRIPTION	MARK
101	X-2189-289-1	BEZEL ASSY (32EM)	
102	1-826-869-11	LOUDSPEAKER (5.5X12.6CM)	
103	△ 1-802-648-12	LCD PANEL (32INCH FHD TFT)	
104	1-480-680-11	ILLUMINATION MODULE	
105	2-580-600-01	SCREW, +PSW M4X8	

REF. No.	PART No.	DESCRIPTION	MARK
106	2-580-640-01	SCREW, +BVTP2 4X16	
107	1-826-869-21	LOUDSPEAKER (5.5X12.6CM)	
108	A-1510-351-A	H4 MOUNT	
109	3-290-361-01	GUIDE, LIGHT	
110	A-1510-350-A	H3E MOUNT	

111	3-289-963-01	PANEL, CLEAR (32)	
112	2-580-640-01	SCREW, +BVTP2 4X16	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

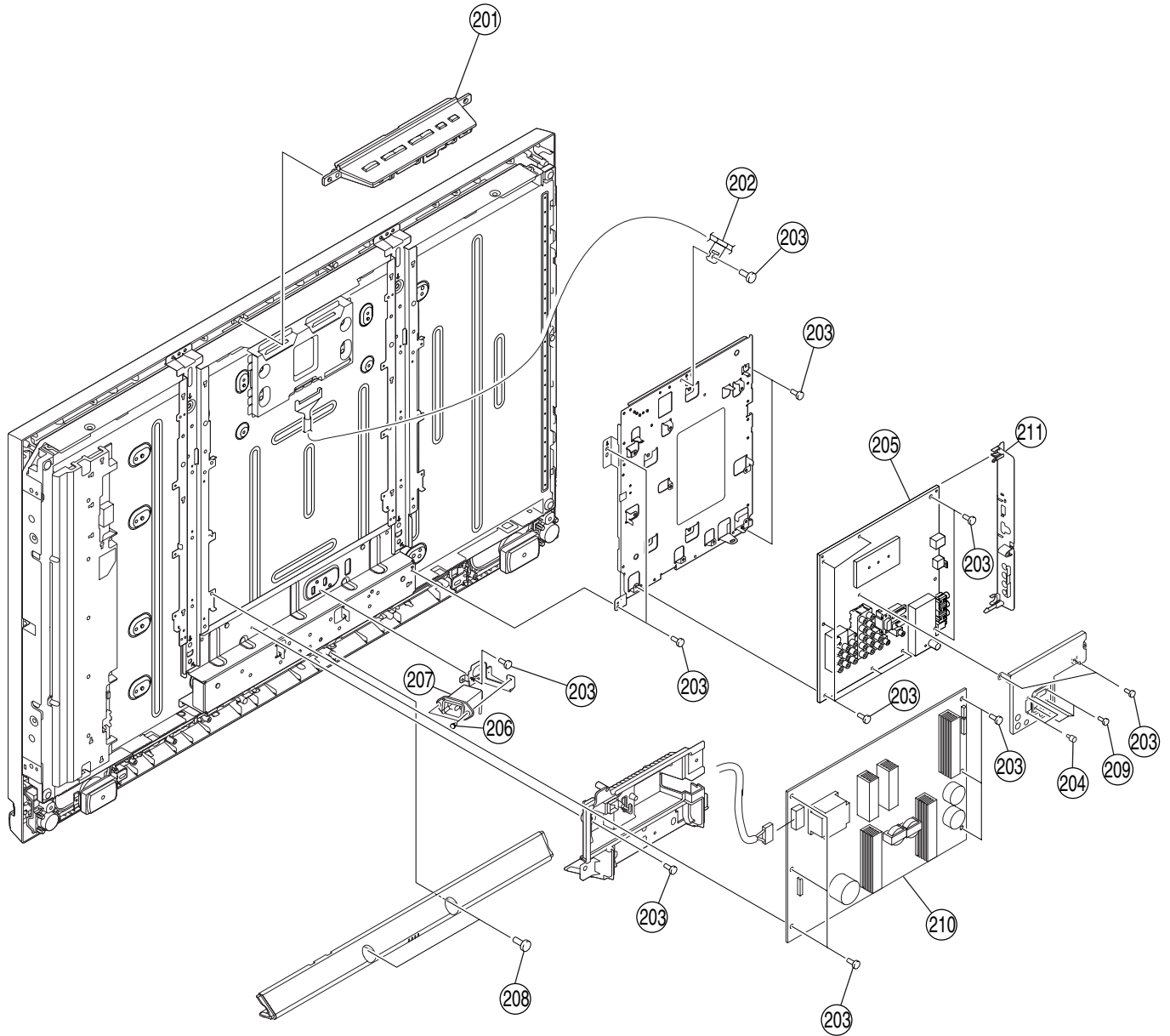
3-2. KLV-40W400A
3-2-1. REAR COVER AND STAND ASSY





REF. No.	PART No.	DESCRIPTION	MARK
151	2-580-640-01	SCREW, +BVTP2 4X16	
152	2-580-606-01	SCREW, +PSW M5X8	
153	2-580-607-01	SCREW, +PSW M5X12	
154	△ X-2189-302-1	REAR COVER ASSY (40)	
155	* 3-106-086-02	COVER, ECS	


REF. No.	PART No.	DESCRIPTION	MARK
156	X-2189-410-1	STAND (ML) ASSY	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KLV-40W400A
3-2-2. CHASSIS-1

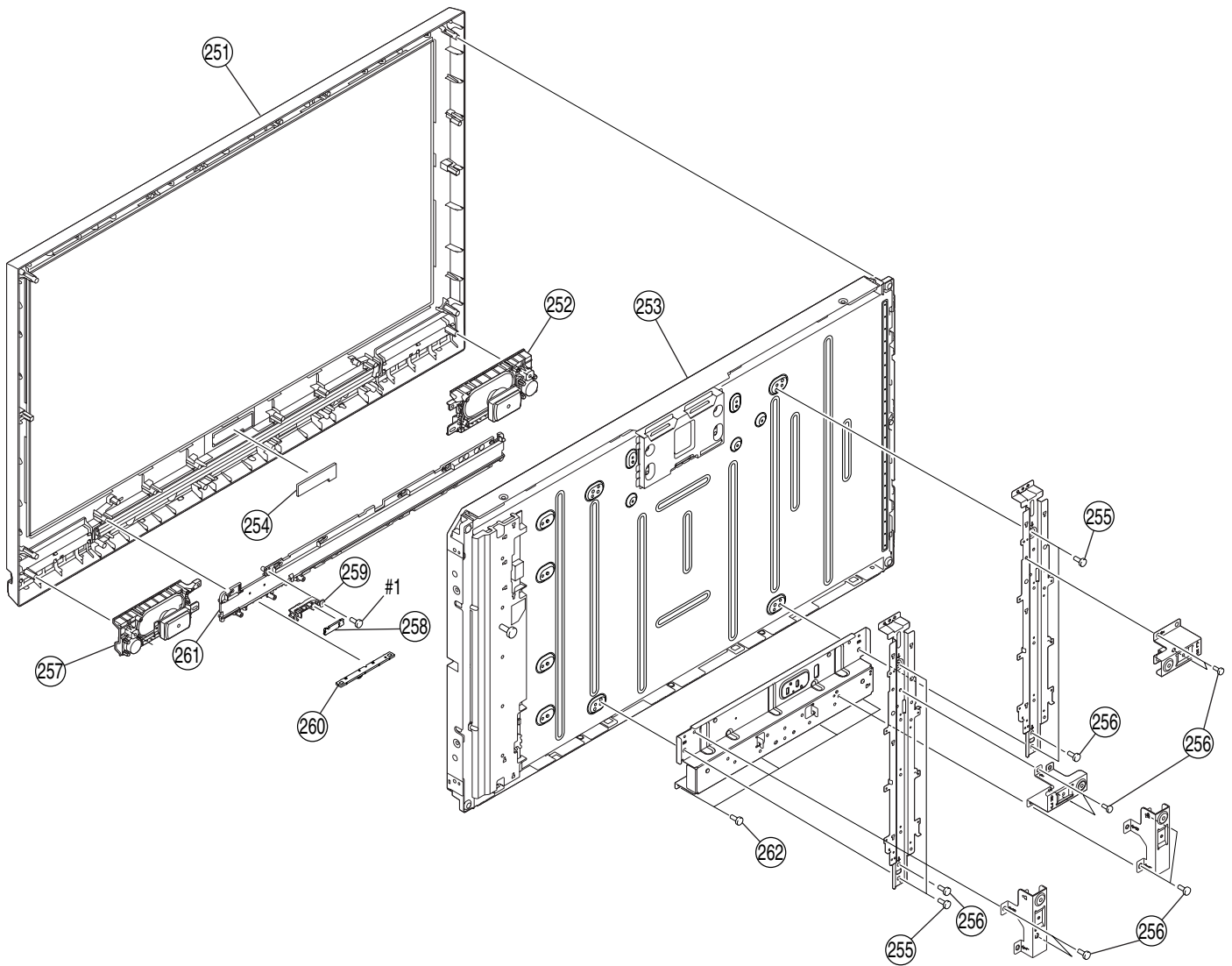


The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
201	1-480-709-11	SWITCH UNIT	
202	1-835-275-11	HARNESS WITH CONNECTOR (LVDS)	
203	2-580-629-01	SCREW, +BVST 3X8	
204	2-580-626-01	SCREW, SP 4-40 UNC	
205	 A-1512-185-A	BG1G COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
206	2-596-649-01	+KTT 3X10 (S TYPE)	
207	 1-821-909-11	AC INLET	
208	2-580-640-01	SCREW, +BVTP2 4X16	
209	2-580-590-01	SCREW, +PSW M3X5	
210	A-1511-388-A	IP5 COMPL	
211	X-2318-263-1	SIDE JACK BRACKET (EX1) ASSY	

KLV-40W400A
3-2-3. CHASSIS-2

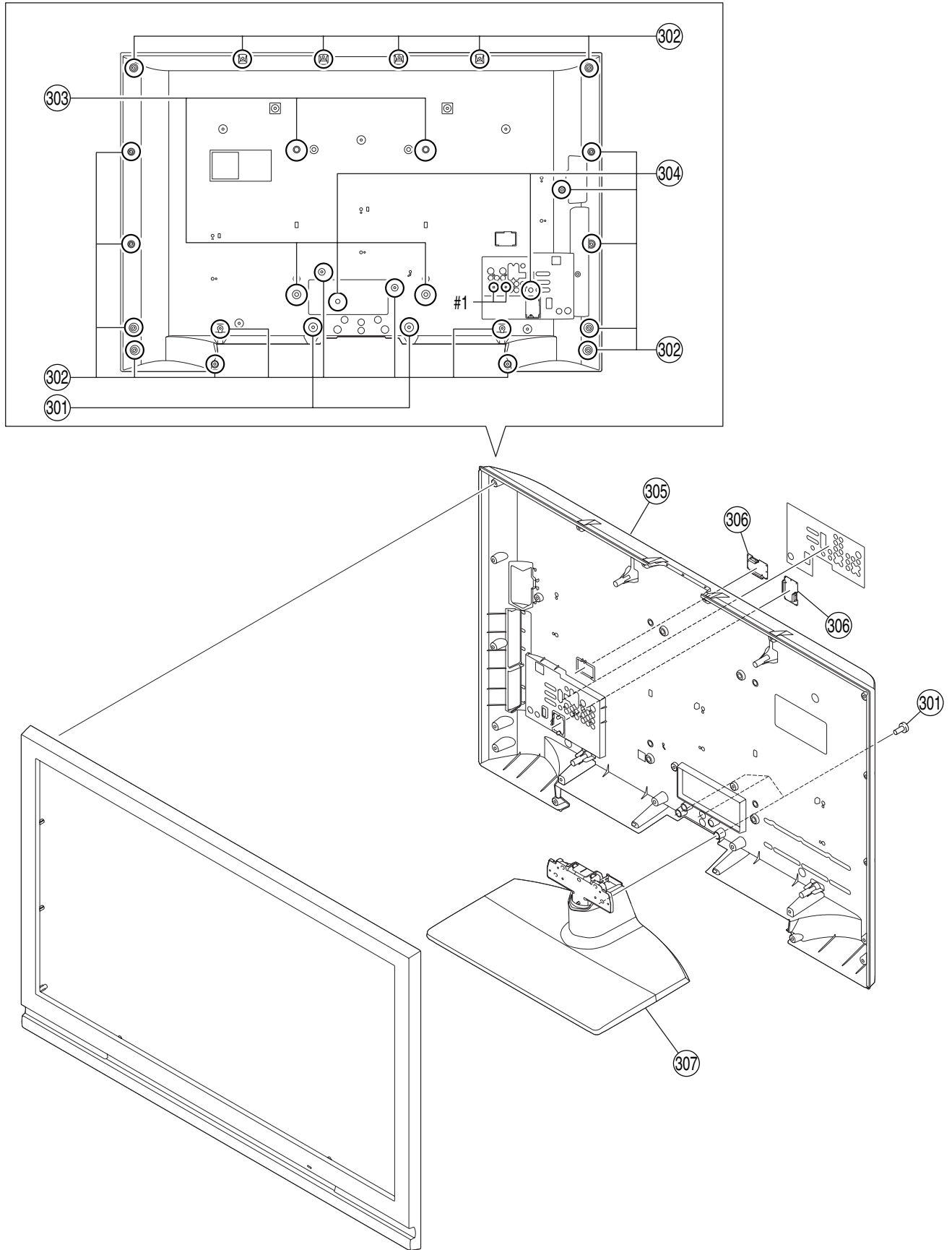


REF. No.	PART No.	DESCRIPTION	MARK
251	X-2189-299-1	BEZEL ASSY (EM40)	
252	1-826-888-11	LOUDSPEAKER	
253	△ 1-802-664-11	LCD PANEL (40INCH FHD TFT)	
254	1-480-680-11	ILLUMINATION MODULE	
255	2-580-600-01	SCREW, +PSW M4X8	

REF. No.	PART No.	DESCRIPTION	MARK
256	2-580-606-01	SCREW, +PSW M5X8	
257	1-826-888-21	LOUDSPEAKER	
258	A-1510-351-A	H4 MOUNT	
259	3-290-361-01	GUIDE, LIGHT	
260	A-1510-350-A	H3E MOUNT	

261	3-289-965-01	PANEL, CLEAR (40)
262	2-580-640-01	SCREW, +BVTP2 4X16
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3

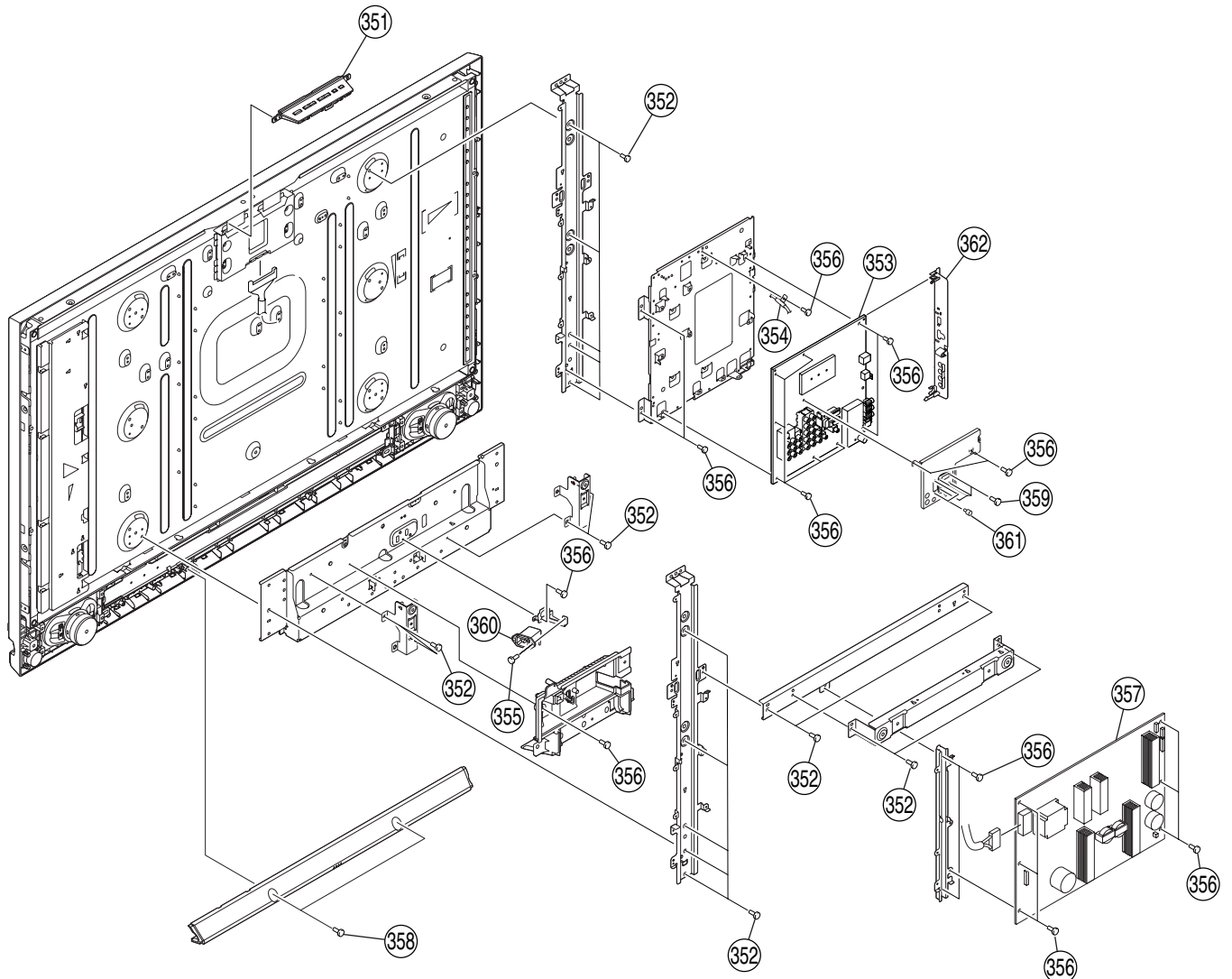
3-3. KLV-46W400A
3-3-1. REAR COVER AND STAND ASSY





REF. No.	PART No.	DESCRIPTION	MARK
301	2-580-607-01	SCREW, +PSW M5X12	
302	2-580-640-01	SCREW, +BVTP2 4X16	
303	2-580-606-01	SCREW, +PSW M5X8	
304	2-580-629-01	SCREW, +BVST 3X8	
305	△ X-2189-301-1	REAR COVER (46) ASSY	


REF. No.	PART No.	DESCRIPTION	MARK
306	* 3-106-086-02	COVER, ECS	
307	X-2189-411-1	STAND (L) ASSY	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KLV-46W400A
3-3-2. CHASSIS-1

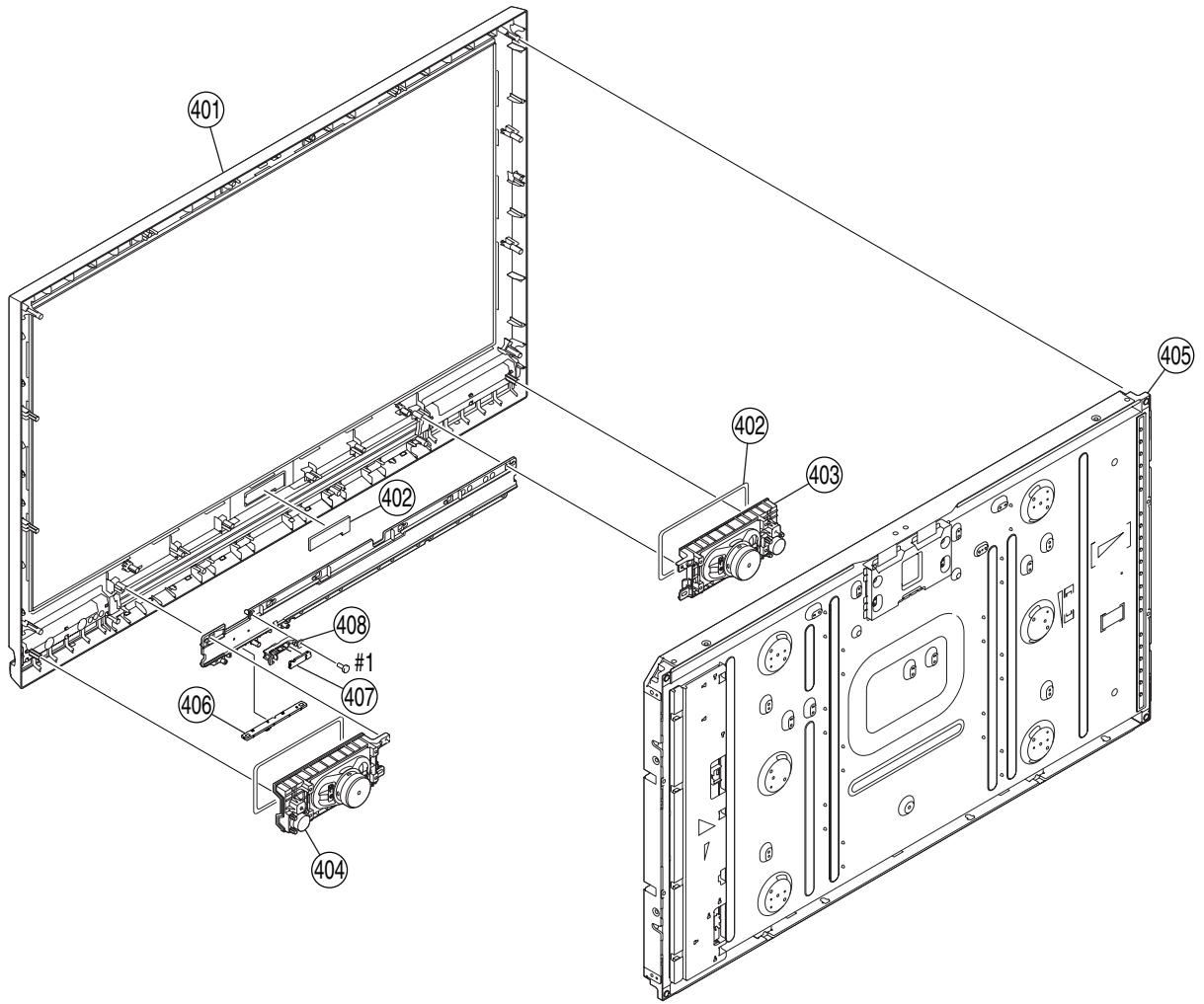


The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
351	1-480-709-11	SWITCH UNIT	
352	2-580-606-01	SCREW, +PSW M5X8	
353	 A-1512-201-A	BG1G COMPL	
354	1-966-050-11	HARNESS WITH CONNECTOR (LVDS)	
355	2-596-649-01	+KTT 3X10 (S TYPE)	

REF. No.	PART No.	DESCRIPTION	MARK
356	2-580-629-01	SCREW, +BVST 3X8	
357	A-1511-389-A	IP5 COMPL	
358	2-580-640-01	SCREW, +BVTP2 4X16	
359	2-580-590-01	SCREW, +PSW M3X5	
360	 1-821-909-11	AC INLET	
361	2-580-626-01	SCREW, SP 4-40 UNC	
362	X-2318-263-1	SIDE JACK BRACKET (EX1) ASSY	

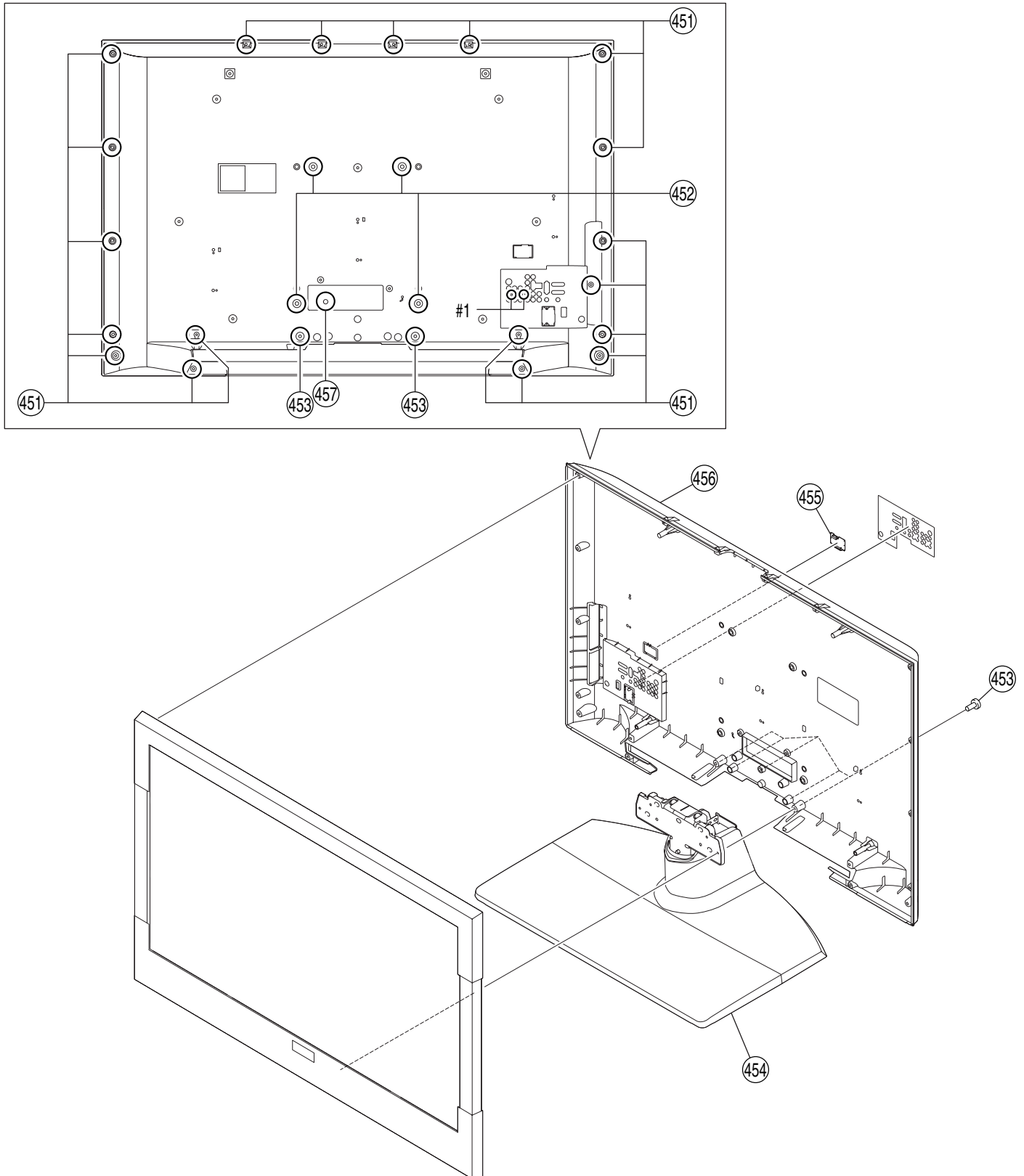
KLV-46W400A
3-3-3. CHASSIS-2



REF. No.	PART No.	DESCRIPTION	MARK
401	X-2189-307-1	BEZEL ASSY (46EM)	
402	1-480-680-11	ILLUMINATION MODULE	
403	1-826-887-11	LOUDSPEAKER	
404	1-826-887-21	LOUDSPEAKER	
405	△ 1-802-663-11	LCD PANEL (46INCH FHD TFT)	

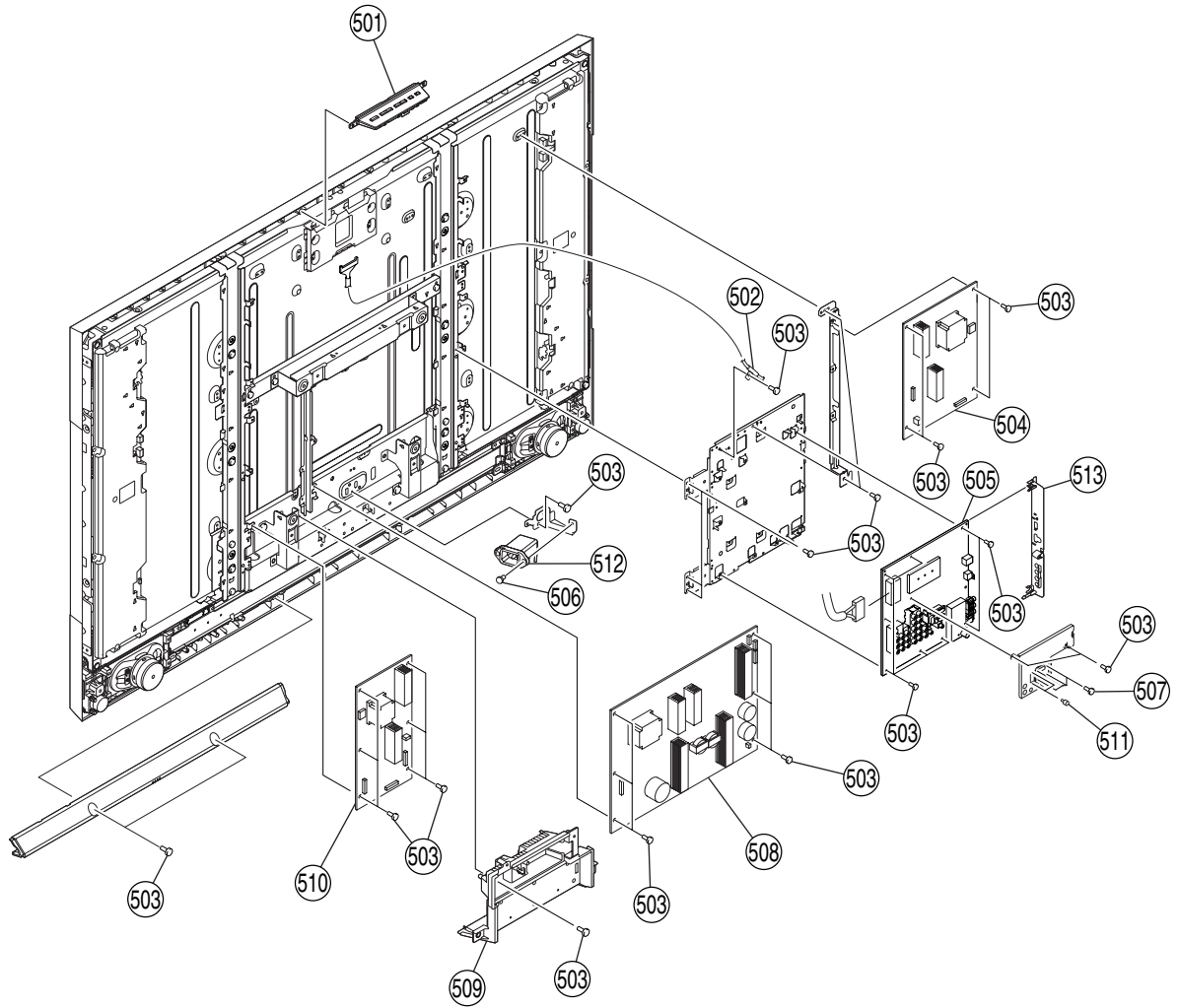
REF. No.	PART No.	DESCRIPTION	MARK
406	A-1510-350-A	H3E MOUNT	
407	A-1510-351-A	H4 MOUNT	
408	3-290-361-01	GUIDE, LIGHT	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	


3-4. KLV-52W400A
3-4-1. REAR COVER AND STAND ASSY








REF. No.	PART No.	DESCRIPTION	MARK	REF. No.	PART No.	DESCRIPTION	MARK
451	2-580-640-01	SCREW, +BVTP2 4X16		456	3-284-261-11	REAR, COVER (52)	
452	2-580-606-01	SCREW, +PSW M5X8		467	2-580-629-01	SCREW, +BVST 3X8	
453	2-580-607-01	SCREW, +PSW M5X16		#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
454	X-2190-786-1	STAND ASSY (LL)					
455	* 3-106-086-02	COVER, ECS					

KLV-52W400A
3-4-2. CHASSIS-1

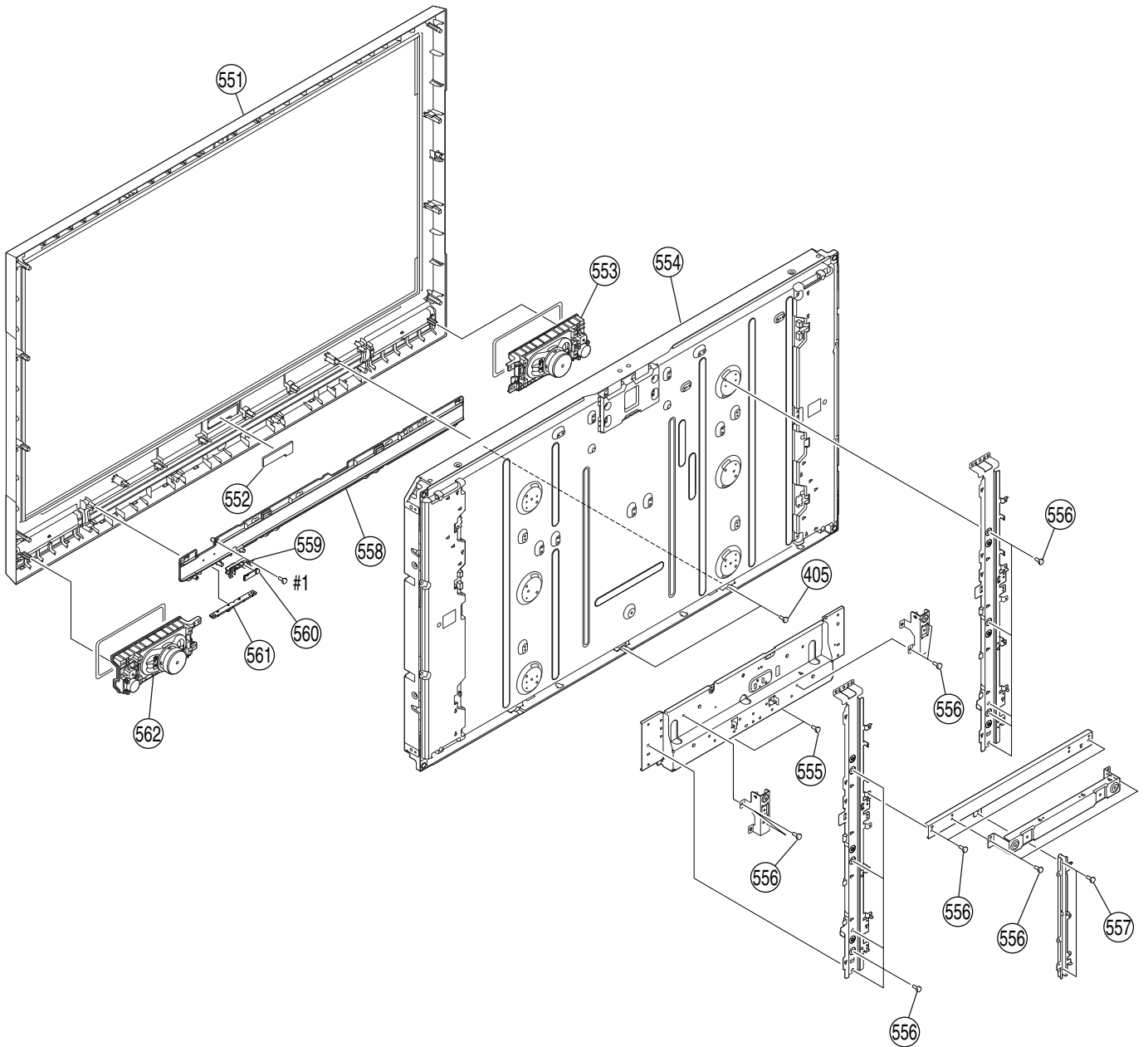


The components identified by mark  contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
501	1-480-709-11	SWITCH UNIT	
502	1-966-051-11	HARNESS WITH CONNECTOR (LVDS)	
503	2-580-629-01	SCREW, +BVST 3X8	
504	 A-1511-383-A	D5 COMPL	
505	 A-1512-203-B	BG1G COMPL	
506	2-596-649-01	+KTT 3X10 (S TYPE)	
507	2-580-590-01	SCREW, +PSW M3X5	
508	 A-1511-323-B	G5 COMPL	
509	3-284-269-01	COVER, UNDER (LL)	
510	 A-1511-382-A	D4 COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
511	2-580-626-01	SCREW, SP 4-40 UNC	
512	 1-821-909-11	AC INLET	
513	X-2318-263-1	SIDE JACK BRACKET (EX1) ASSY	

KLTV-52W400A
3-4-3. CHASSIS-2

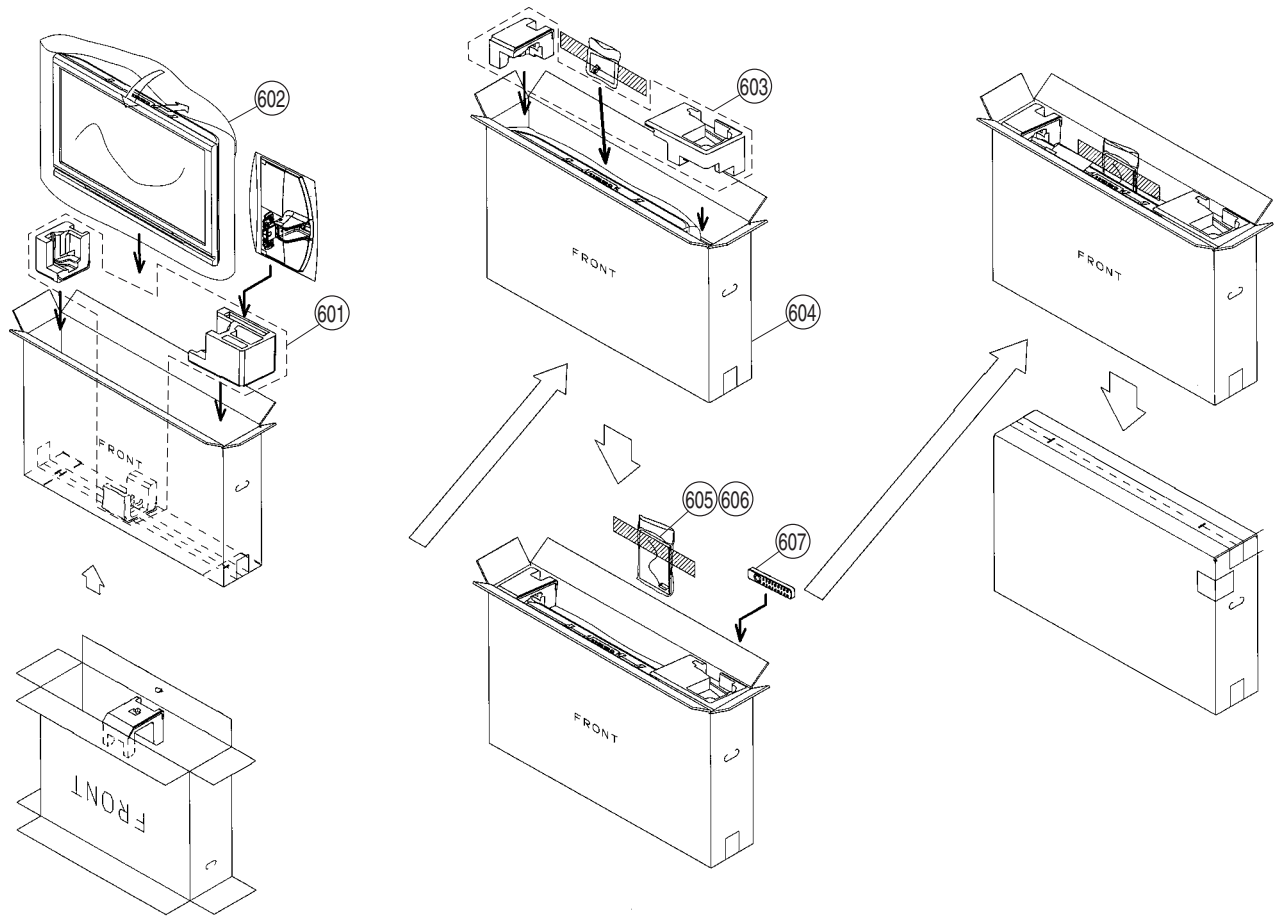


REF. No.	PART No.	DESCRIPTION	MARK
551	X-2190-419-1	BEZEL ASSY (52EM)	
552	1-480-680-11	ILLUMINATION MODULE	
553	1-826-887-11	LOUDSPEAKER (3CM, 6.5X15CM)	
554	△ 1-802-662-11	LCD PANEL (52INCH FHD TFT)	
555	2-580-640-01	SCREW, +BVTP2 4X16	
556	2-580-629-01	SCREW, +BVST 3X8	
557	2-580-629-01	SCREW, +BVST 3X8	
558	* 3-284-247-41	PANEL, CLEAR (52)	
559	3-290-361-01	GUIDE, LIGHT	
560	A-1510-351-A	H4 MOUNT	

REF. No.	PART No.	DESCRIPTION	MARK
561	A-1510-350-A	H3E MOUNT	
562	1-826-887-21	LOUDSPEAKER (3CM, 6.5X15CM)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

3-5. PACKING MATERIALS

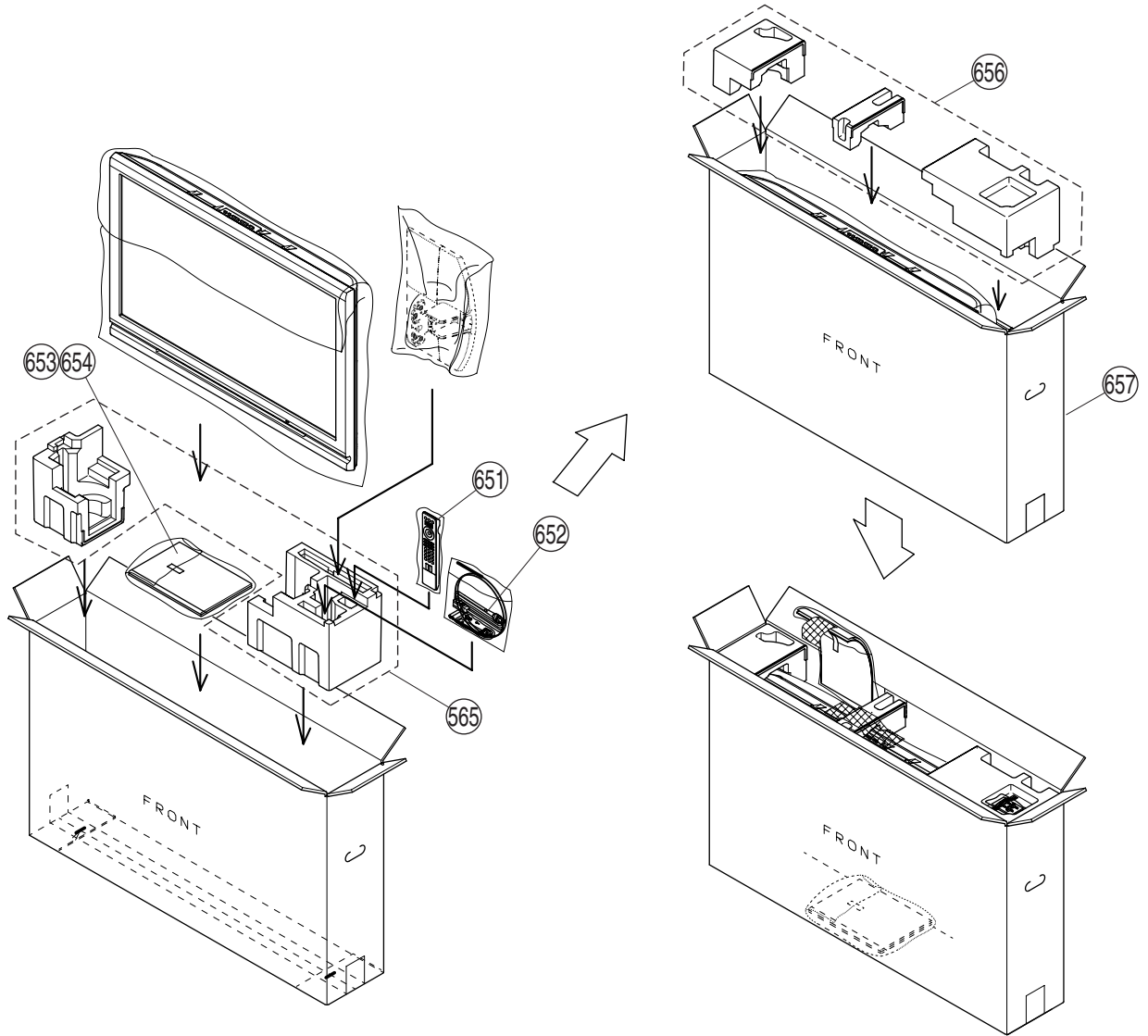
3-5-1. KLV-32W400A



REF. No.	PART No.	DESCRIPTION	MARK
601	* 3-295-216-01	CUSHION (LOWER)	
602	3-874-376-01	BAG, PROTECTION	
603	* 3-295-215-01	CUSHION (UPPER)	
604	* 3-295-214-01	INDIVIDUAL CARTON	
605	△ 3-295-292-12	MANUAL, INSTRUCTION (E, Indonesia, India, Middle East, Saudi arabia)	
	△ 3-295-292-22	MANUAL, INSTRUCTION (E, Middle East)	
	△ 3-295-292-32	MANUAL, INSTRUCTION (Indonesia, Saudi arabia)	
	△ 3-295-292-42	MANUAL, INSTRUCTION (Indonesia)	
	△ 3-299-348-11	MANUAL, INSTRUCTION (Thailand, South Africa, Philippines)	
	△ 3-299-348-21	MANUAL, INSTRUCTION (Thailand)	

REF. No.	PART No.	DESCRIPTION	MARK
606	* 3-295-308-12	MANUAL, INSTRUCTION (WALL MOUNT) (E, India, Indonesia Middle East, Saudi arabia)	
	* 3-295-308-22	MANUAL, INSTRUCTION (WALL MOUNT) (Thailand, South Africa, Philippines)	
607	1-480-705-11	REMOTE COMMANDER (RM-GA011)	

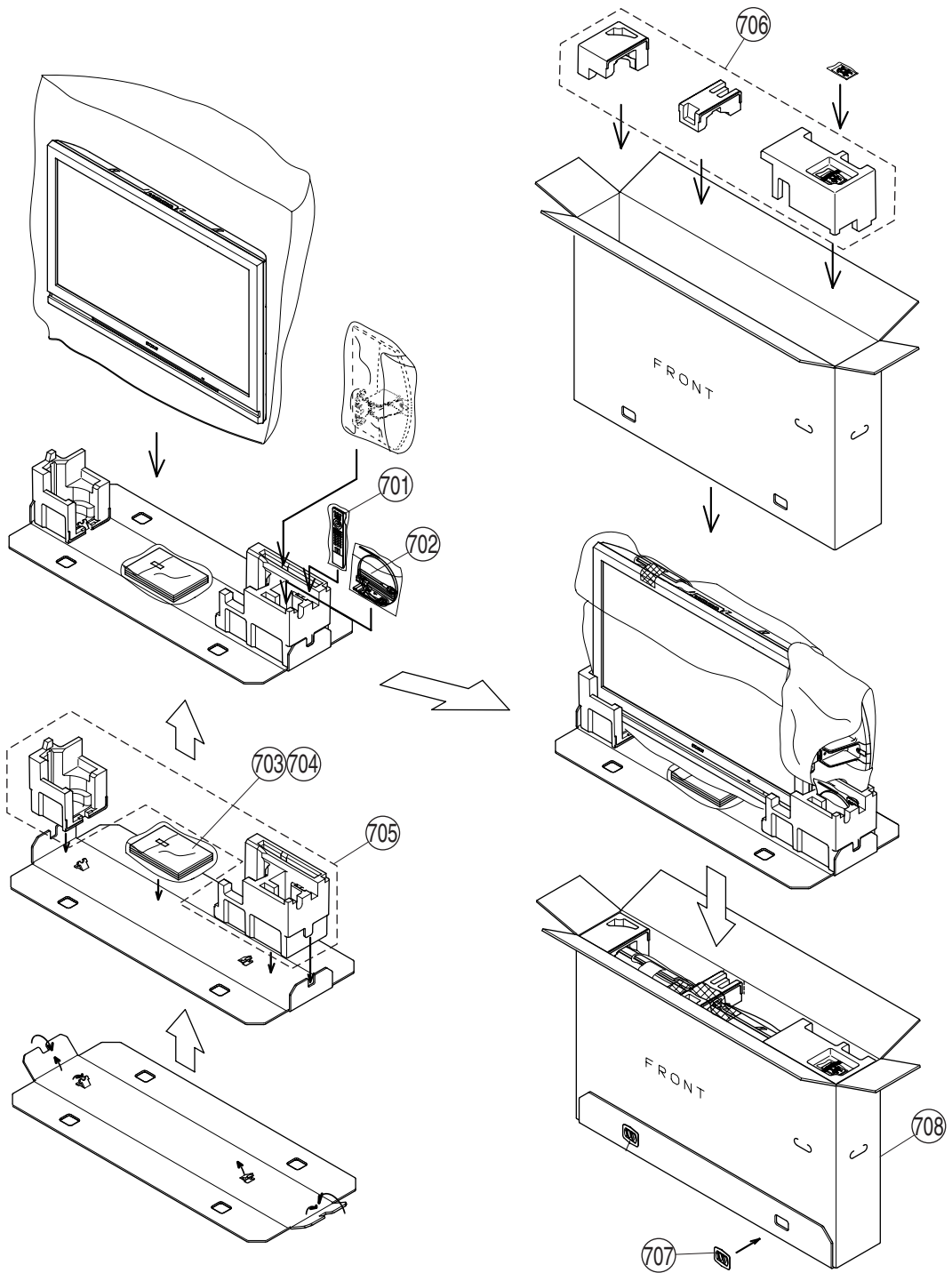
3-5-2. KLV-40W400A



REF. No.	PART No.	DESCRIPTION	MARK
651	1-480-705-11	REMOTE COMMANDER (RM-GA011)	
652	△ 1-835-126-11	POWER SUPPLY CORD SET (Thailand)	
	△ 1-835-138-11	POWER SUPPLY CORD SET (Saudi Arabia, Philippines)	
	△ 1-835-165-11	POWER SUPPLY CORD SET (E, Saudi Arabia, Middle East, Indonesia)	
	△ 1-835-166-11	POWER SUPPLY CORD SET (South Africa)	
	△ 1-835-200-11	POWER SUPPLY CORD SET (Indonesia)	
	△ 1-835-281-11	POWER SUPPLY CORD SET (India)	
653	△ 3-295-292-12	MANUAL,INSTRUCTION (E, Indonesia, India, Middle East, Saudi arabia)	
	△ 3-295-292-22	MANUAL,INSTRUCTION (E, Middle East)	
	△ 3-295-292-32	MANUAL,INSTRUCTION (Indonesia, Saudi arabia)	
	△ 3-295-292-42	MANUAL,INSTRUCTION (Indonesia)	
	△ 3-299-348-11	MANUAL,INSTRUCTION (Thailand, South Africa, Philippines)	
	△ 3-299-348-21	MANUAL,INSTRUCTION (Thailand)	

REF. No.	PART No.	DESCRIPTION	MARK
654	* 3-295-308-12	MANUAL,INSTRUCTION (WALL MOUNT) (E, Indonesia, India, Middle East, Saudi arabia)	
	* 3-295-308-22	MANUAL,INSTRUCTION (WALL MOUNT) (Thailand, South Africa, Philippines)	
655	* 3-295-296-01	CUSHION (LOWER)	
656	* 3-295-295-01	CUSHION (UPPER)	
657	* 3-295-294-01	INDIVIDUAL CARTON	

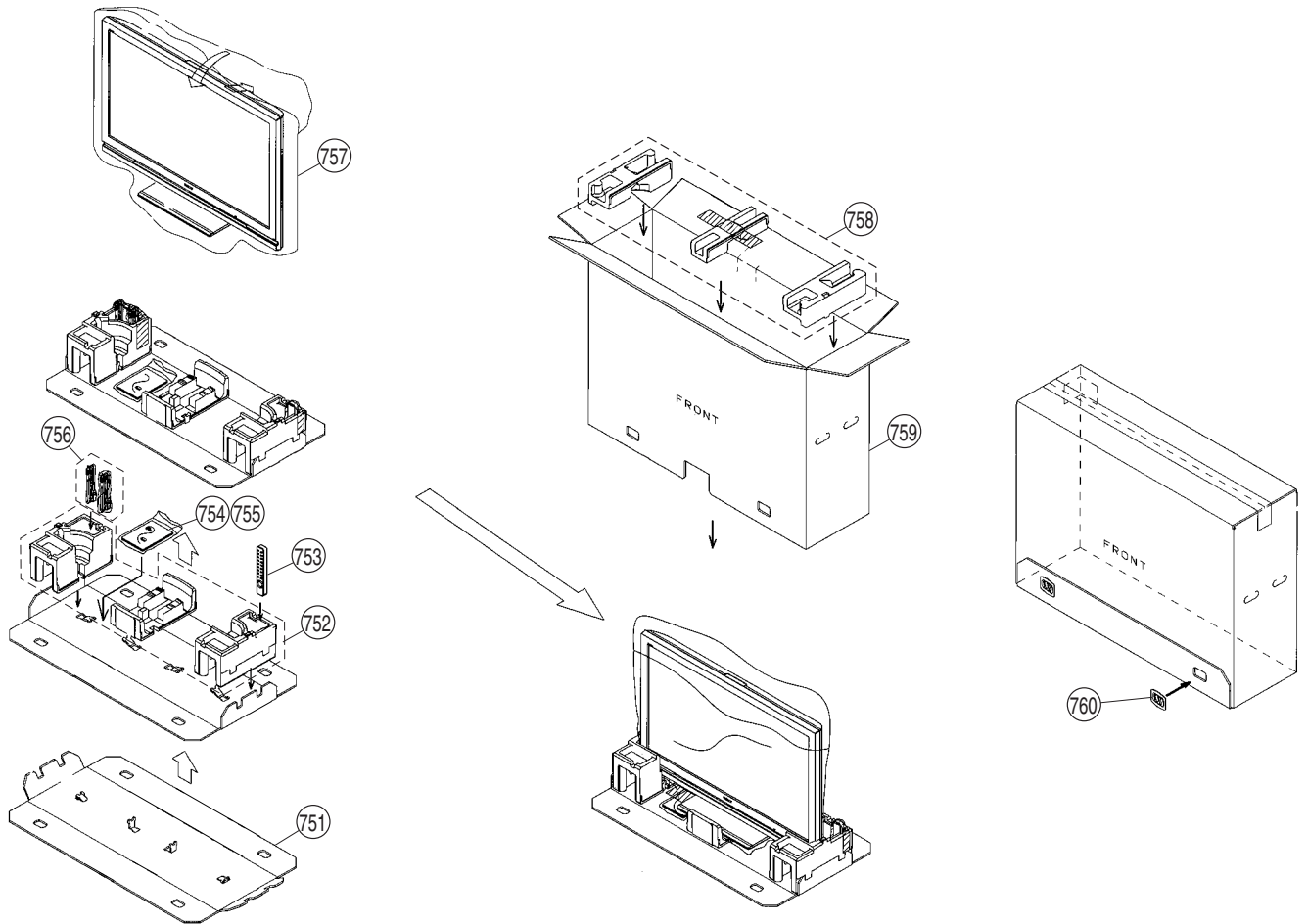
3-5-3. KLV-46W400A



REF. No.	PART No.	DESCRIPTION	MARK
701	1-480-705-11	REMOTE COMMANDER (RM-GA011)	
702	△ 1-835-126-11	POWER SUPPLY CORD SET (Thailand)	
	△ 1-835-138-11	POWER SUPPLY CORD SET (Saudi Arabia, Philippines)	
	△ 1-835-165-11	POWER SUPPLY CORD SET (E, Saudi Arabia, Middle East, Indonesia)	
	△ 1-835-166-11	POWER SUPPLY CORD SET (South Africa)	
	△ 1-835-200-11	POWER SUPPLY CORD SET (Indonesia)	
	△ 1-835-281-11	POWER SUPPLY CORD SET (India)	
703	△ 3-295-292-12	MANUAL, INSTRUCTION (E, India, Saudi Arabia, Middle East, Indonesia)	
	△ 3-295-292-22	MANUAL, INSTRUCTION (E, Middle East)	
	△ 3-295-292-32	MANUAL, INSTRUCTION (South Africa, Indonesia)	

REF. No.	PART No.	DESCRIPTION	MARK
	△ 3-295-292-42	MANUAL, INSTRUCTION (Indonesia)	
	△ 3-299-348-11	MANUAL, INSTRUCTION (Thailand, South Africa, Philippines)	
	△ 3-299-348-21	MANUAL, INSTRUCTION (Thailand)	
704	* 3-295-308-12	MANUAL, INSTRUCTION (WALL MOUNT) (E, ID, SA, ME, EA)	
	* 3-295-308-22	MANUAL, INSTRUCTION (WALL MOUNT) (Thailand, South Africa, Philippines)	
705	* 3-295-300-01	CUSHION (LOWER)	
706	* 3-295-299-01	CUSHION (UPPER)	
707	* 2-639-807-01	JOINT	
708	* 3-295-297-01	INDIVIDUAL CARTON	

3-5-4. KLV-52W400A



REF. No.	PART No.	DESCRIPTION	MARK
751	3-295-390-01	TRAY	
752	* 3-295-392-01	CUSHION LOWER	
753	S 1-480-705-11	REMOTE COMMANDER (RM-GA011)	
754	△ 3-295-292-12	MANUAL, INSTRUCTION (E, India, Saudi Arabia, Middle East, Indonesia)	
	△ 3-295-292-22	MANUAL, INSTRUCTION (E, Middle East)	
	△ 3-295-292-32	MANUAL, INSTRUCTION (Saudi Arabia, Indonesia)	
	△ 3-295-292-42	MANUAL, INSTRUCTION (Indonesia)	
	△ 3-299-348-11	MANUAL, INSTRUCTION (Thailand, South Africa, Philippines)	
	△ 3-299-348-21	MANUAL, INSTRUCTION (Thailand)	
755	* 3-295-308-12	MANUAL, INSTRUCTION (WALL MOUNT) (E, India, Saudi Arabia, Middle East, Indonesia)	
	* 3-295-308-22	MANUAL, INSTRUCTION (WALL MOUNT) (Thailand, South Africa, Philippines)	

REF. No.	PART No.	DESCRIPTION	MARK
756	△ 1-835-126-11	POWER SUPPLY CORD SET (Thailand)	
	△ 1-835-138-11	POWER SUPPLY CORD SET (Saudi Arabia, Philippines)	
	△ 1-835-165-11	POWER SUPPLY CORD SET (E, Saudi Arabia, Middle East, Indonesia)	
	△ 1-835-166-11	POWER SUPPLY CORD SET (South Africa)	
	△ 1-835-200-11	POWER SUPPLY CORD SET (Indonesia)	
	△ 1-835-281-11	POWER SUPPLY CORD SET (India)	
757	3-874-377-01	BAG, PROTECTION	
758	* 3-295-391-01	CUSHION UPPER	
759	* 3-295-389-01	INDIVIDUAL CARTON	
760	* 2-639-807-01	JOINT	

