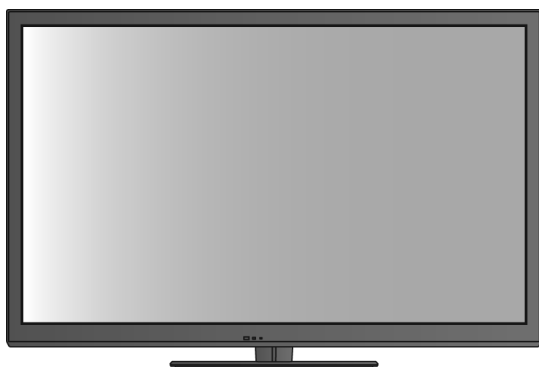


Service Manual

LED TV



Model No. TH-L47E5R

Chassis: LA35

Destination: IRAN

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

TABLE OF CONTENTS

	PAGE		PAGE
1 Safety Precautions -----	3	5.2.4. Exit-----	10
1.1. General Guidelines-----	3	5.2.5. Self Check Mode-----	11
1.1.1. Leakage Current Cold Check-----	3	5.2.6. Hotel Mode Adjustment-----	11
1.1.2. Leakage Current Hot Check (See Figure 1.)-----	3	5.2.7. Hotel Mode-----	11
2 Warning -----	4	6 Troubleshooting Guide -----	12
2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices-----	4	6.1. Check of the IIC bus lines-----	12
2.2. About lead free solder (PbF)-----	5	6.1.1. How to access-----	12
3 Service Navigation -----	6	6.1.2. Exit-----	12
3.1. Service Hint-----	6	6.1.3. Screen display-----	12
4 Specifications -----	7	6.2. Power LED Blinking timing chart-----	13
5 Service Mode -----	9	6.3. No Power-----	13
5.1. How to enter into Service Mode-----	9	7 Disassembly and Assembly Instructions -----	14
5.1.1. Contents of adjustment mode-----	9	7.1. Speaker and Screw Fixing-----	14
5.1.2. How to exit-----	9	7.2. Panel Preparation - Stick Black Tape-----	15
5.2. SRV-TOOL-----	10	7.3. LCD Panel Fixing & Handling Method-----	17
5.2.1. How to access-----	10	7.4. LED Panel Preparation & Metal Fixing-----	18
5.2.2. Display of SOS History-----	10	7.5. PCB Fixing & Key Button Assembly-----	19
5.2.3. POWER ON TIME/COUNT-----	10	7.6. Back Cover - Barrier & Screw-----	20
		8 Measurements and Adjustments -----	21
		8.1. Voltage chart of A-board-----	21

- 8.2. Voltage chart of P-board----- 21
- 9 Block Diagram ----- 22**
 - 9.1. Main Block Diagram ----- 22
 - 9.2. Detailed Block Diagram (1/2)----- 23
 - 9.3. Detailed Block Diagram (2/2)----- 24
- 10 Wiring Connection Diagram ----- 25**
 - 10.1. Wire Dressing ----- 25
- 11 Schematic Diagram ----- 26**
- 12 Printed Circuit Board ----- 42**
- 13 Exploded View and Replacement Parts List ----- 48**
 - 13.1. Exploded View and Mechanical Replacement
Parts List ----- 48

1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
5. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
6. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 100 Mohm and over. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

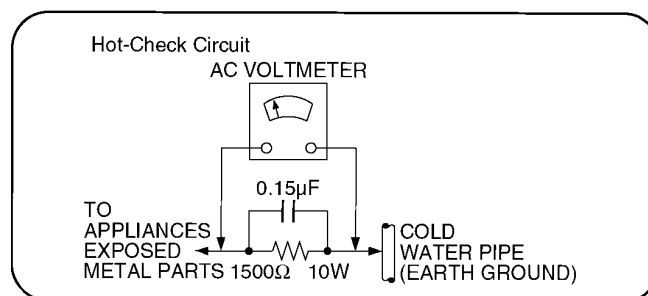


Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor [chip] components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

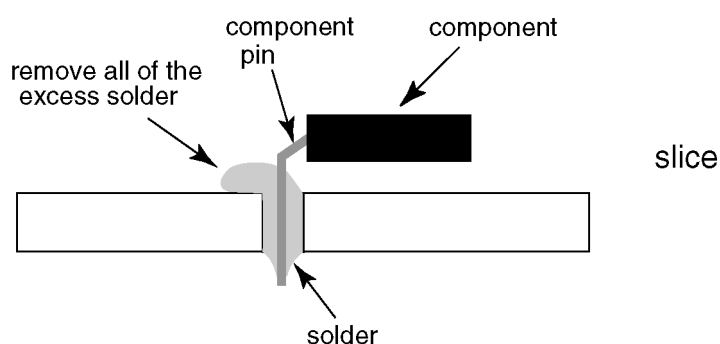
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB.

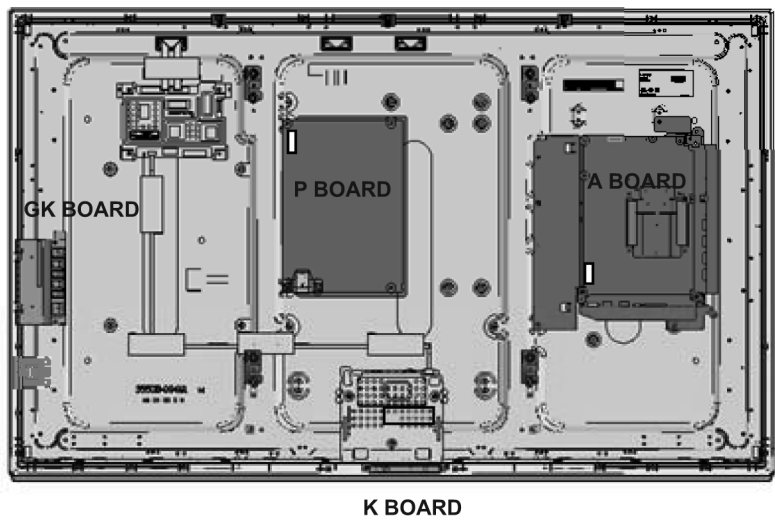
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, OFDM, ADV, LD4, STBY EEP	Repairable
P BOARD	Power Supply	Repairable
GK BOARD	Function SW for LGD panel	Repairable
K BOARD	LED/RM/CATS	Repairable

4 Specifications

Power Source	AC 220-240 V, 50 / 60 Hz
Power Consumption	
Power Rating	118 W
Standby Condition	0.15 W
Display panel	
Panel system	IPS LED backlight Liquid Crystal Display
Visible screen size (diagonal)	119 cm
Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Dimensions (W × H × D)	1,107 mm × 712 mm × 268 mm (With Pedestal)
	1,107 mm × 666 mm × 52 mm (TV only)
Mass	20.0 kg Net (With Pedestal)
	16.5 kg Net (TV only)

Sound	
Speaker	(75 mm × 22 mm) × 2, 8 Ω
Audio Output	20 W (10 W + 10 W)
Headphones	M3 (3.5 mm) stereo mini Jack × 1

Receiving Systems / Band name	17 SYSTEMS	FUNCTIONS
	1 PAL B, G, H	
	2 PAL I	
	3 PAL D, K	
	4 SECAM B, G	Reception of broadcast transmission and playback from video cassette tape recorders.
	5 SECAM D, K	
	6 SECAM K1	
	7 NTSC M (NTSC 3.58 / 4.5MHz)	
	8 NTSC 4.43 / 5.5 MHz	
	9 NTSC 4.43 / 6.0 MHz	
	10 NTSC 4.43 / 6.5 MHz	
	11 NTSC 3.58 / 5.5 MHz	Playback from special VCR's or DVD.
	12 NTSC 3.58 / 6.0 MHz	
	13 NTSC 3.58 / 6.5 MHz	
	14 SECAM I	
	15 PAL 60 Hz / 5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD.
	16 PAL 60 Hz / 6.0 MHz	
	17 PAL 60 Hz / 6.5 MHz	

Receiving Channels (Analogue TV)

VHF BAND	2 - 12 (PAL / SECAM B, K1)
	0 - 12 (PAL B AUST.)
	1 - 9 (PAL B N.Z.)
	1 - 12 (PAL / SECAM D)
	1 - 12 (NTSC M JAPAN)
	2 - 13 (NTSC M USA)
UHF BAND	21 - 69 (PAL G, H, I / SECAM G, K, K1)
	28 - 69 (PAL B AUST.)
	13 - 57 (PAL D, K)
	13 - 62 (NTSC M JAPAN)
	14 - 69 (NTSC M USA)
CATV	S1 - S20 (OSCAR)
	1 - 125 (USA CATV)
	C13 - C49 (JAPAN)
	S21 - S41 (HYPER)
	Z1 - Z37 (CHINA)
	5A, 9A (AUST.)

Aerial - Rear VHF / UHF

Operating Conditions Temperature : 0°C - 40°C
Humidity : 20 % - 80 % RH (non-condensing)

Connection Terminals

AV1 IN	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms]
	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
AUDIO OUT	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms] (high impedance)
AV2 IN	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms]
	COMPONENT	Y	1.0 V[p-p] (including synchronisation)
		P _B /C _B , P _R /C _R	±0.35 V[p-p]
	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
HDMI 1 / 2 / 3 / 4 input		TYPE A Connectors	

PC	• This TV supports 'HDAVI Control 5' function.
	HIGH-DENSITY D-SUB 15 PIN
	R, G, B: 0.7 V[p-p] (75 Ω)
	HD, VD: TTL LEVEL 2.0-5.0 V [p-p] (high impedance)
Card Slot	• Applicable input signals:
	VGA, SVGA, WVGA, XGA, SXGA, WXGA
	SD Card slot $\times$ 1
	10BASE-T / 100BASE-TX
ETHERNET	
USB 1 / 2	USB 2.0 TYPE A Connectors DC 5 V, Max. 500 mA
DIGITAL AUDIO OUT	PCM / Dolby Digital / DTS, Fibre optic

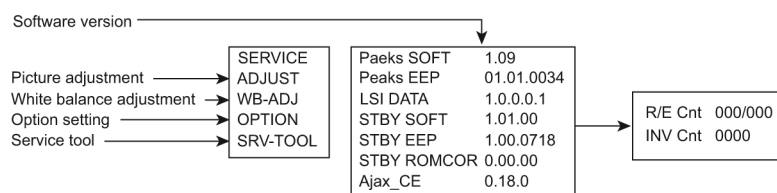
Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Service Mode

5.1. How to enter into Service Mode

While pressing [VOLUME (-)] button of the main unit, press [INFO] button of the remote control three times within 2 seconds.



5.1.1. Contents of adjustment mode

- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data
ADJUST	CONTRAST	000
	COLOR	59
	TINT	FE
	SUB-BRT	800
	BACKLGT	20D
	B-Y-G	40
	R-Y-A	0
	VCOM	189
WB-ADJ	R-GAIN	75
	G-GAIN	80
	B-GAIN	65
	R-CENT	80
	G-CENT	80
	B-CENT	9B
OPTION	Boot	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	FC7
	EDID-CLK	HIGH
SRV-TOOL		00

5.1.2. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

5.2. SRV-TOOL

5.2.1. How to access

1. Select [SRV-TOOL] in Service Mode.
2. Press [OK] button on the remote control.

	SRV-TOOL	
Display of TD2Microcode version →	TD2Microcode:0075004	
Display of Flash ROM maker code →	Flash ROM : AD-F1	
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00	Time 00016.46 Count 0000024

POWER ON TIME/COUNT
Press [MUTE] button (3sec)

5.2.2. Display of SOS History

SOS History (Number of LED blinking) indication.

From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.

This indication except 2nd and 1st occurrence after shipment will be cleared by [Self-check indication and forced to factory shipment setting].

5.2.3. POWER ON TIME/COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3sec.

Time : Cumulative power on time, indicated hour : minute by decimal

Count : Number of ON times by decimal

Note : This indication will not be cleared by either of the self-checks or any other command.

5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.2.5. Self Check Mode

1. Press the 'MENU' button (on the remote control) and the 'VOL DOWN' button on the LCD panel.
2. Press ON/OFF button on the panel to Exit.

5.2.6. Hotel Mode Adjustment

1. Press the 'VOLUME DOWN' button on the TV panel and simultaneously press the INPUT button on the remote control 3 times to enter Hotel Mode.
2. Set Hotel mode 'on/off', then press 'EXIT' to come out.

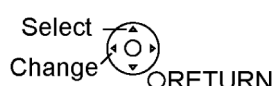
5.2.7. Hotel Mode

1. Purpose
Restrict a function for hotels.
2. Access command to the Hotel mode setup menu.
In order to display the Hotel mode setup menu, please enter the following command (**within 2 second**).
[TV] : Vol [Down] + [REMOTE] : INPUT (3 times).

Then, the Hotel mode setup menu is displayed.

Hotel Mode

Mode	Off
Input	-
Channel	-
Volume	+ 25
Vol. Max	+ 100
OSD Ctrl	Off
FP Ctrl	Off
Pow Ctrl	Off



3. To exit the Hotel mode setup menu
Disconnect AC power cord from wall outlet.
4. Explain the Hotel mode setup menu

Item	Function
Mode	Select hotel mode off/on
Input	Select input signal modes. Set the input, when each time power is switched on. Selection : -/RF/HDMI1/HDMI2/HDMI3/Component/Video/PC • Off: give priority to a last memory.
Channel	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection : Any channel number or [-]. [-] means the channel when turns off.
Volume	Adjust the volume when each time power is switched on. Range : 0 to 100
Vol. Max	Adjust maximum volume. Range : 0 to 100
OSD Ctrl	Restrict the OSD. Selection : OFF/PATTERN1 • OFF: No restriction • PATTERN1: restriction
FP Ctrl	Select front key conditions. Selection : OFF/PATTERN1/ALL • OFF: altogether valid. • PATTERN1: only input key is valid. • ALL: altogether invalid.
Pow Ctrl	Select POWER-ON/OFF condition when AC power cord is disconnected and then connected. OFF: The same condition when AC power cord is disconnected. ON: Forced power ON condition.

6 Troubleshooting Guide

Use the self-check function to test the unit.

- 1. Checking the IIC bus lines
- 2. Power LED Blinking timing

6.1. Check of the IIC bus lines

6.1.1. How to access

Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

6.1.2. Exit

Disconnect the AC cord from wall outlet.

6.1.3. Screen display

SELF CHECK

---- . XXXXXX - XXXXXX

PEAKS	OK
TUN	OK
AVSW	OK
STBY	OK
MEM1	OK
MEM2	OK
MEM3	OK
DCDC	OK
DAC	OK
ID	OK

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6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

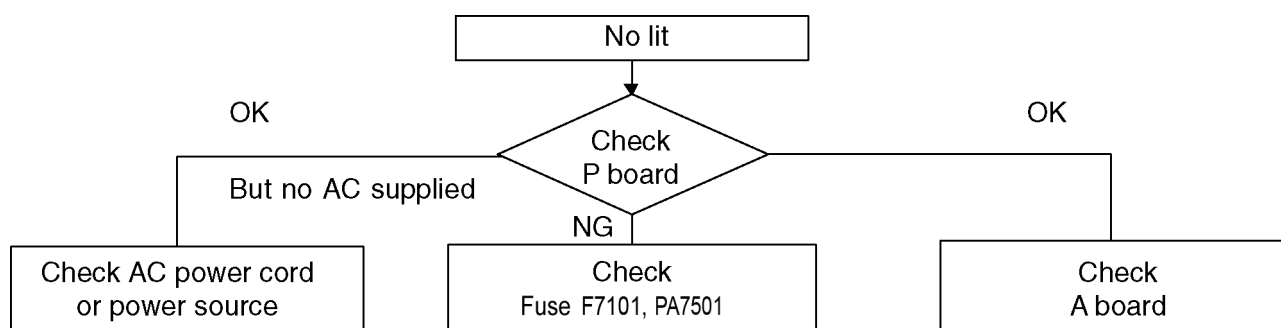
Priority	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	POWER_SOS	SOS from POWER Curcuit	3
3	SOUND_SOS	SOS from audio AMP	9

6.3. No Power

First check point

There are following 2 states of No Power indication by power LED.

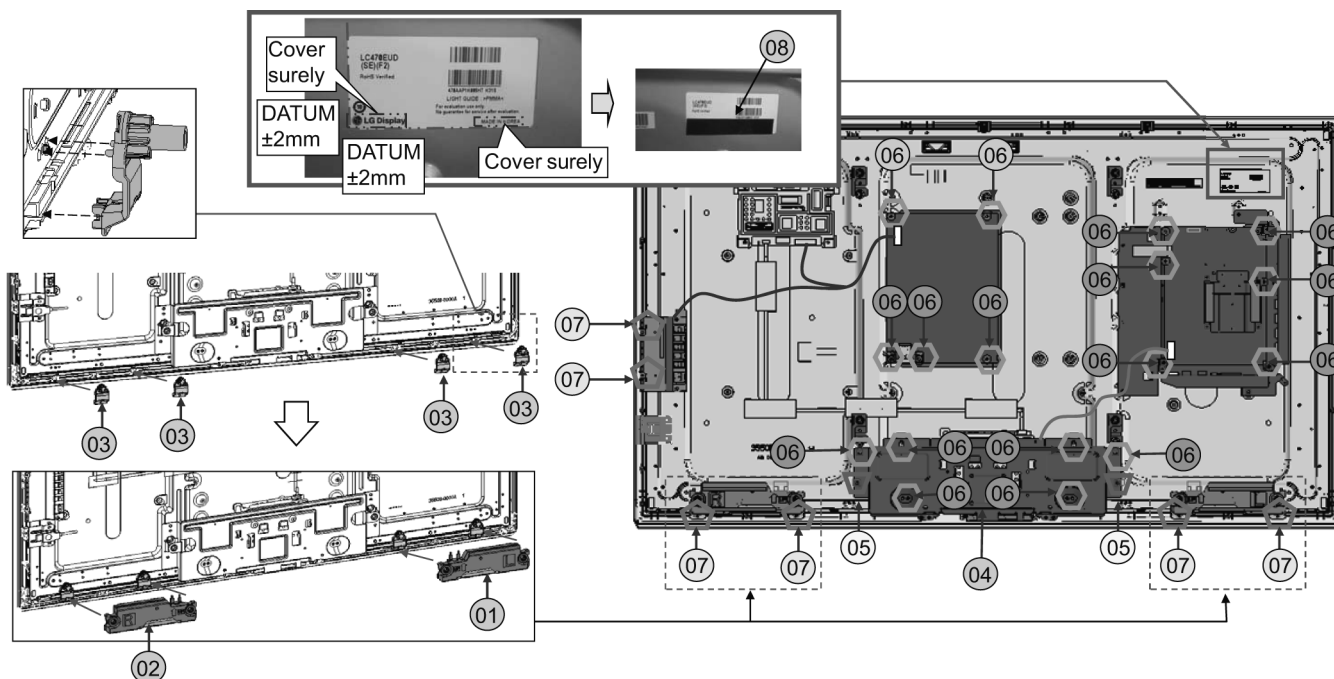
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Speaker and Screw Fixing

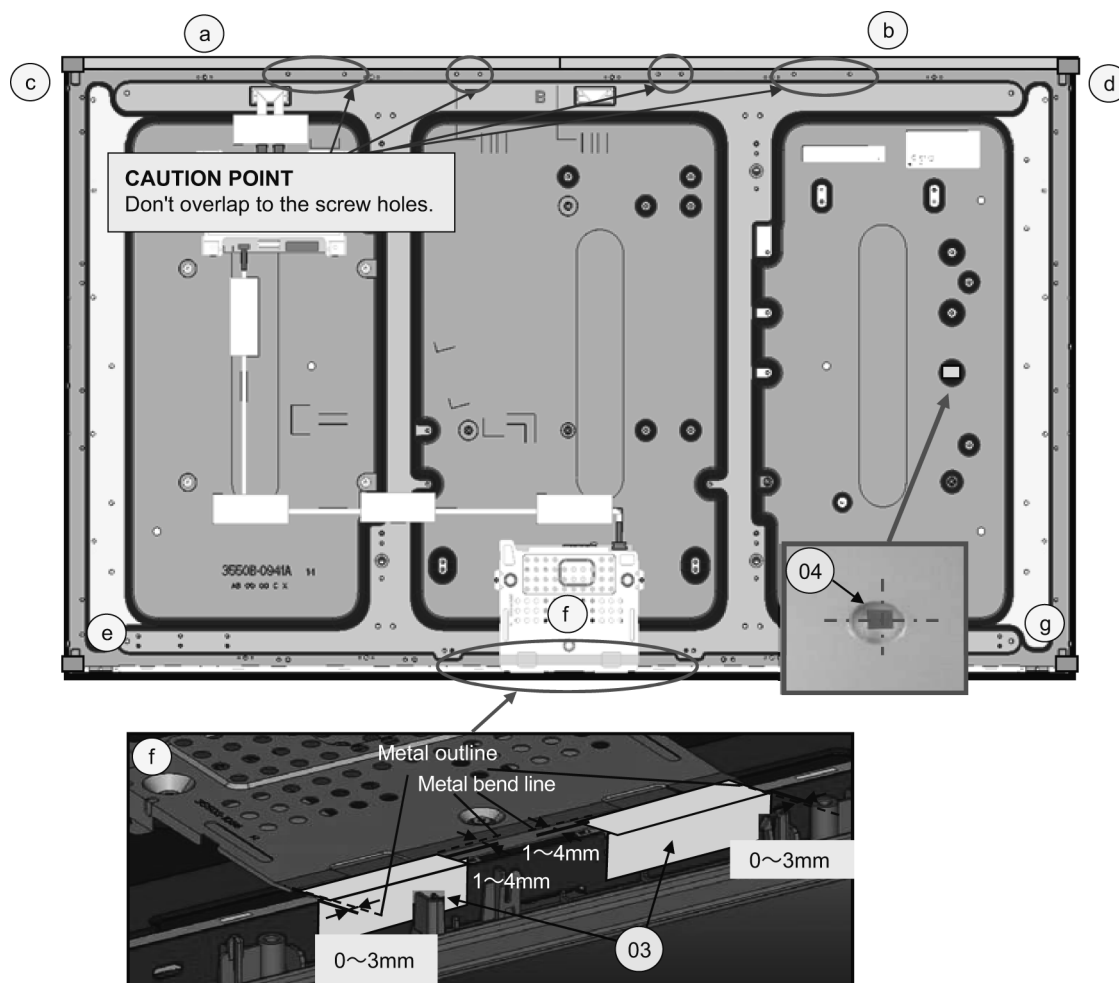
1. Fix Metal bracket bottom.
2. Fix speaker bracket into cabinet and screw.
3. Fix speaker unit L & R into speaker bracket.
4. Fix screw at pcb, control bracket and speaker bracket.

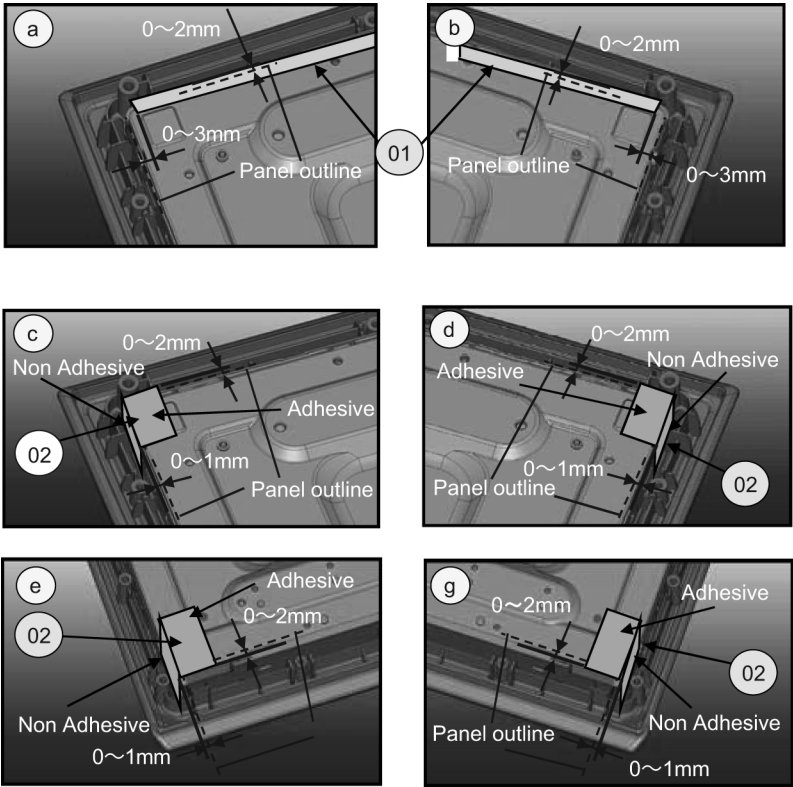


No.	Part Num	QTY	UOM	Description	Remarks
01	L0EYAA000006	1	PC	SPEAKER UNIT L	
02	L0EYAA000007	1	PC	SPEAKER UNIT R	
03	TKX5ZA02501	4	PC	SPEAKER BRACKET	
04	TKZ5ZX50271	1	PC	BOTTOM_METAL	
05	THEJ024	2	PC	SCREW (BTM2)	6 ± 1 Kgf.cm
06	THEJ036J	17	PC	SCREW (BTM4/VESA4/A9/P5)	6 ± 1 Kgf.cm
07	XTV3+10JFJ	6	PC	SCREW (SP BKT4/KEY2)	6 ± 1 Kgf.cm
08	T4FP1505J	1	PC	PET TAPE(0.07 × 11)	

7.2. Panel Preparation - Stick Black Tape

1. Stick shading sheet at top panel (Left and right).
2. Stick shading plate at panel (4 corner).
3. Stick black tape at bottom panel area.

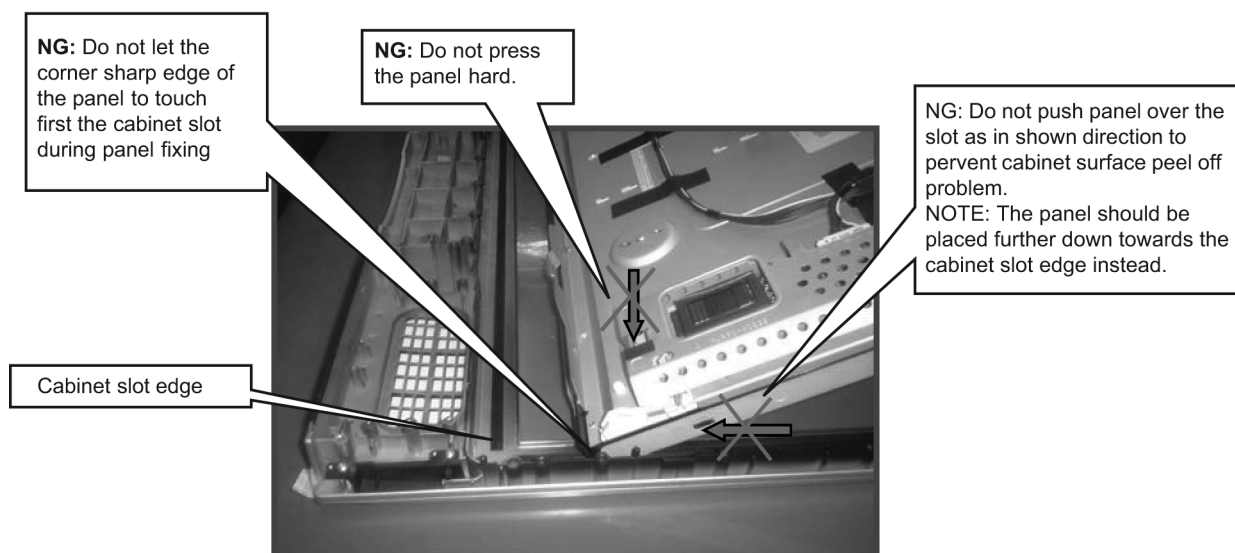
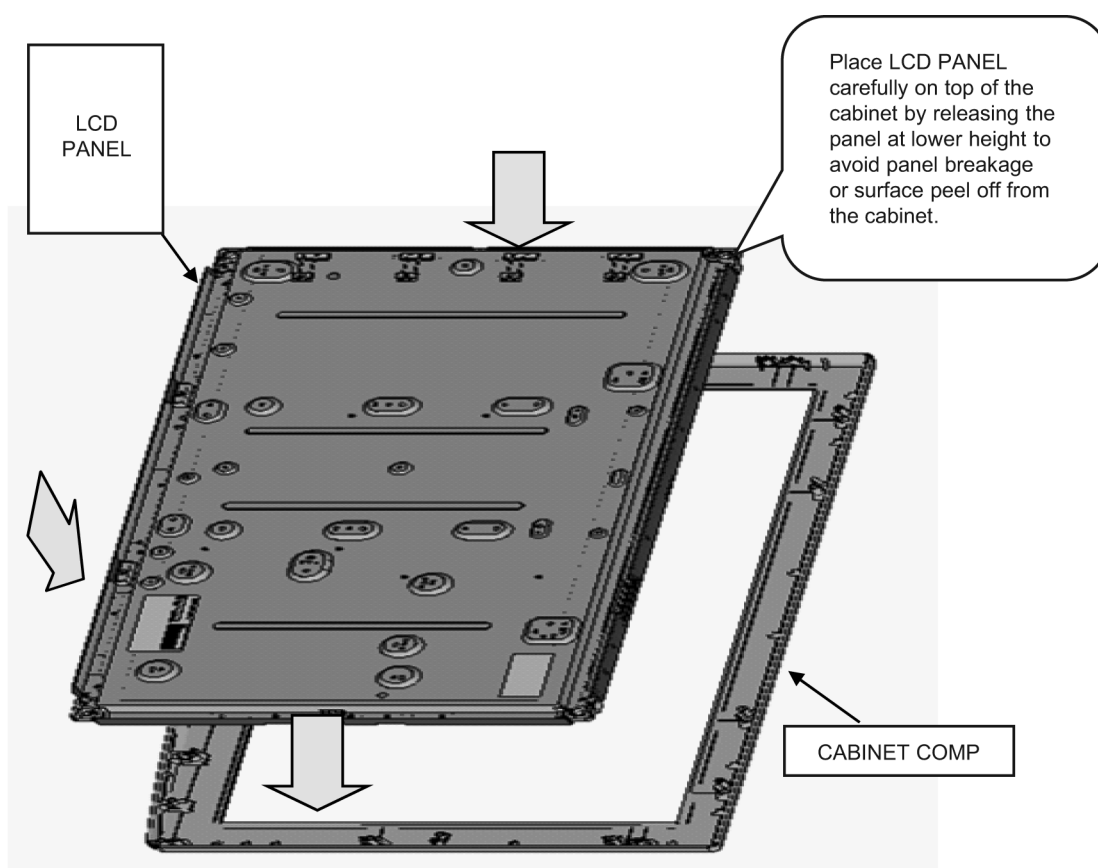




No.	Part Num	QTY	UOM	Description	Remarks
01	TMK4GX109	4	PC	SHADING PLATE	
02	TMK4GX108	2	PC	SHADING SHEET	
03	T4FP2005B	0.12	MT	BLACK TAPE	60 mm × 2
04	TEWB484	1	PC	GASKET (AT PANEL)	

7.3. LCD Panel Fixing & Handling Method

1. Place down the cabinet as shown below.
2. Fix LCD panel into the cabinet by taking below precautions.

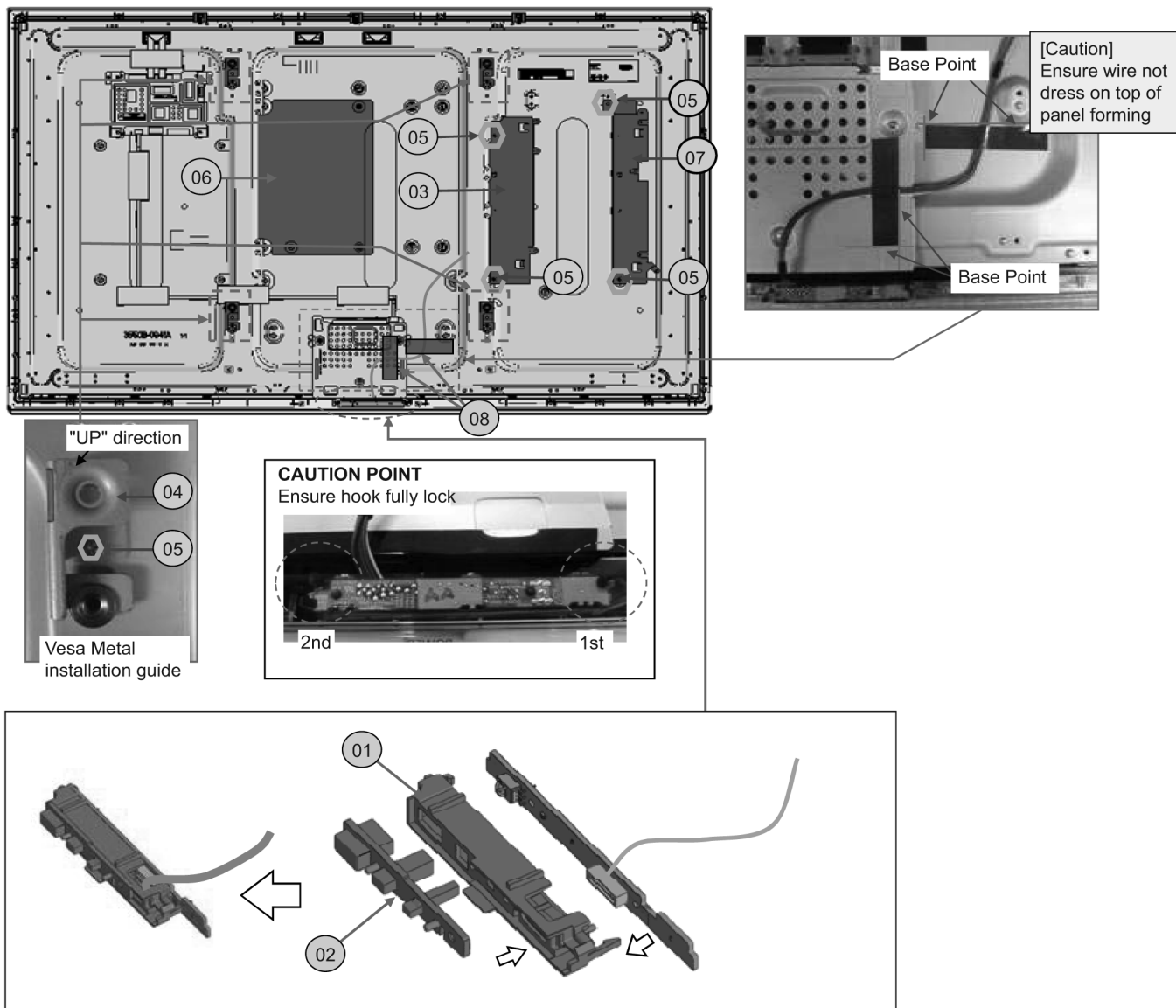


Other general precautions

1. Do not press panel surface to avoid blue spot on the panel display.
2. Do not use hard cloth or rub the surface too hard. This may cause scratches on the surface.
3. Take care not to subject the TV's surface to water or detergent. Any liquid (including pets urine) if enters the product could lead to TV failure.
4. Take care not to subject the surface to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
5. The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch with your fingernail or other hard objects.

7.4. LED Panel Preparation & Metal Fixing

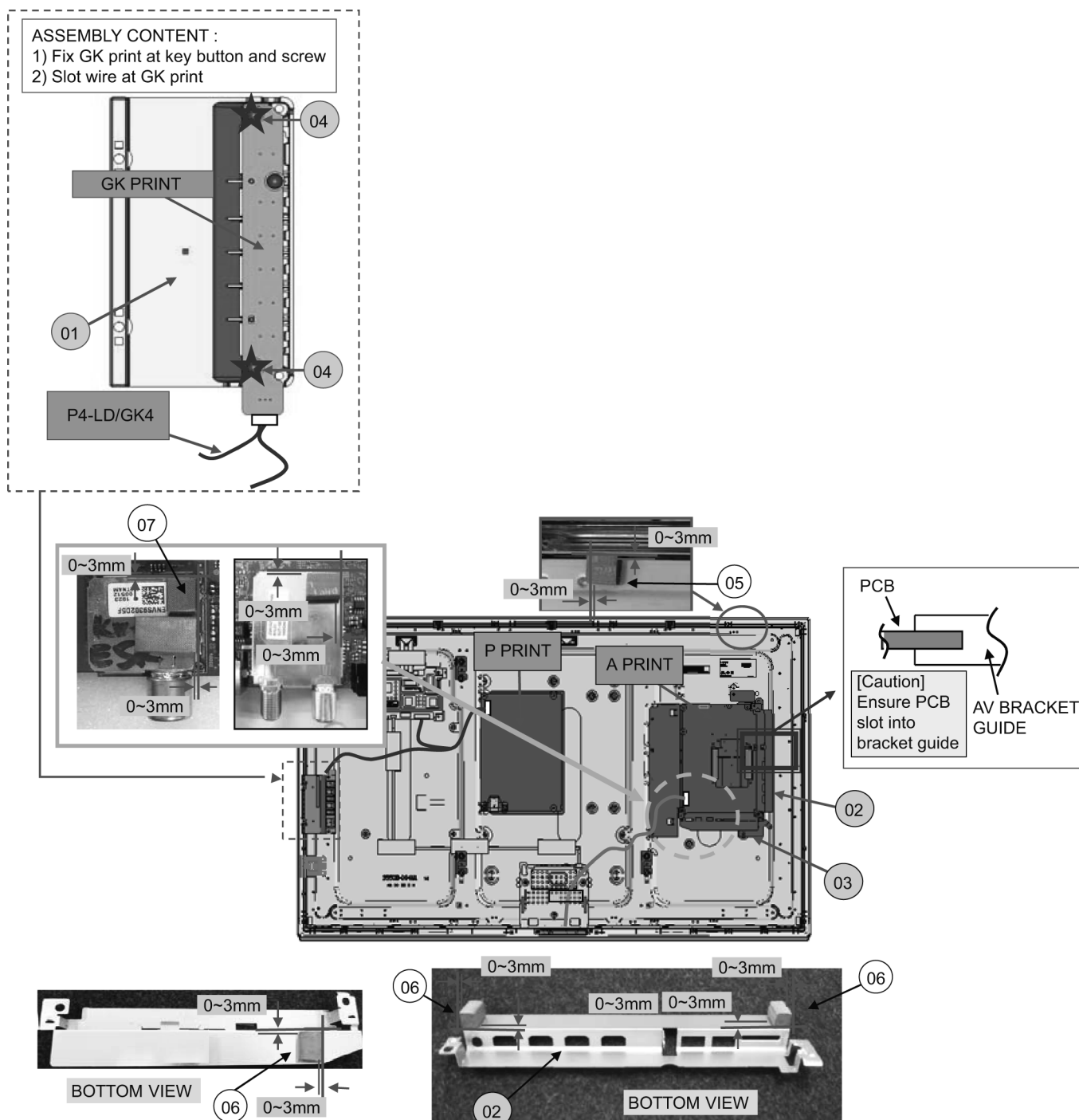
1. Fix wire into K-Print.
2. Fix K-print to LED panel.
3. Insert LED panel assembly at cabinet.
4. Stick tape at panel.
5. Stick barrier P-PCB at panel.
6. Fix ch frame L & R and vesa metal in to panel and screw.



No.	Part Num	QTY	UOM	Description	Remarks
01	TKK5ZC50221	1	PC	LED PANEL BRACKET ASSY	
02	TXFKK5Z0004	1	PC	LED PANEL ASSY	
03	TUA5ZA04001	1	PC	METAL CH FRAME L	
04	TKZ5ZX5005-2	4	PC	VESA METAL	
05	THEJ036J	8	PC	SCREW (BTM4/VESA4/A9/P5)	6 ± 1 Kgf.cm
06	TMK4GX098	1	PC	BARRIER_P_PCB	
07	TUA5ZA04101	1	PC	METAL CH FRAME R	
08	T4FP1505J	0.7	PC	PET TAPE (0.07X11)	70 mm × 2 pcs

7.5. PCB Fixing & Key Button Assembly

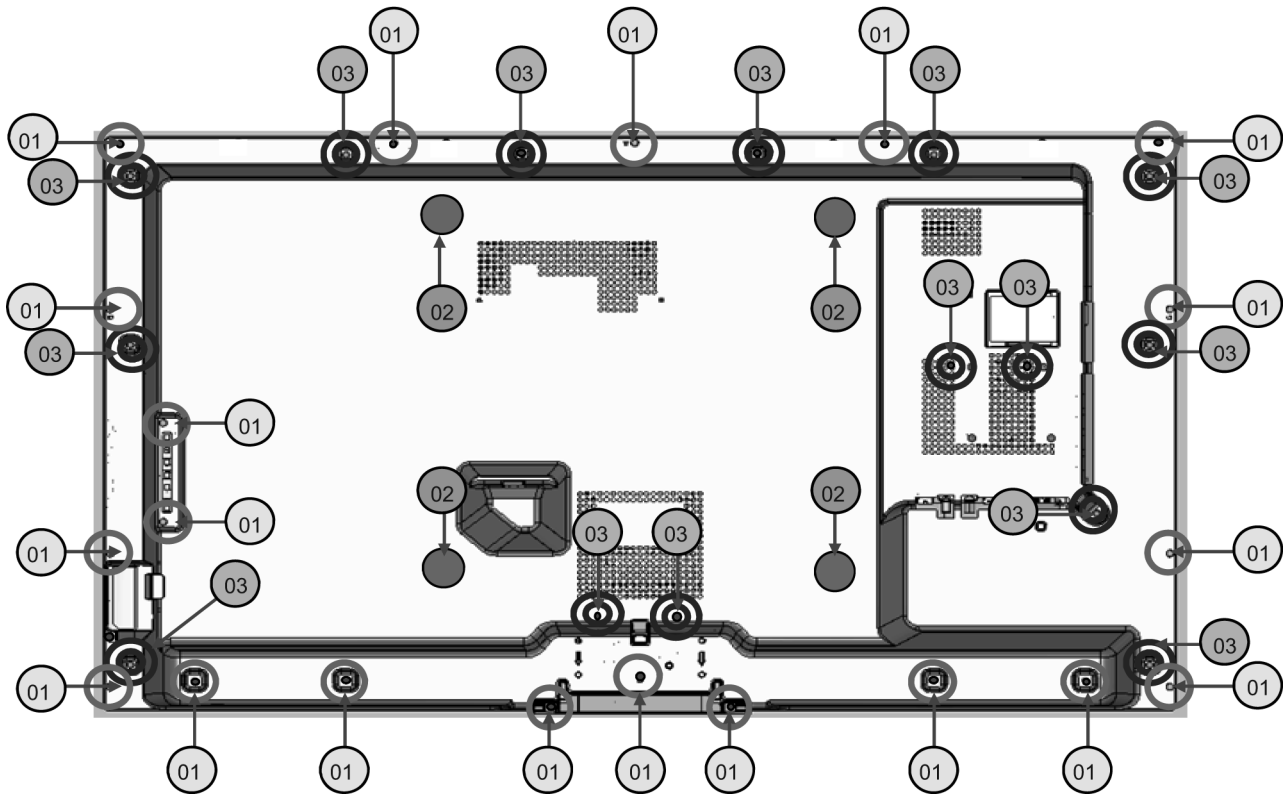
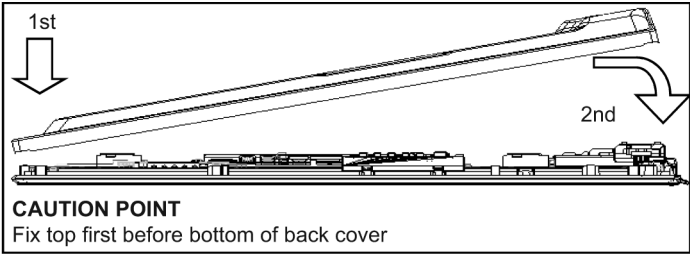
1. Fix P print and A print.
2. Fix key button assembly at panel.
3. Fix metal av bracket side and bottom at A print.
4. Insert wire connector.
5. Insert Wifi metal at cabinet.



No.	Part Num	QTY	UOM	Description	Remarks
01	TBX5ZA00601	1	PC	KEY_BUTTON	
02	TKZ5ZF50034	1	PC	METAL AV BRACKET SIDE	
03	TKZ5ZF50072	1	PC	METAL AV BRACKET BTM	
04	XTW3+8TFJ	2	PC	SCREW (KEY BUTTON 2)	6 ± 1 Kgf.cm
05	TEWB772	1	PC	GASKET (AT PANEL)	
06	TEWB877	3	PC	GASKET (AT SIDE BRCT2 AT PANEL1)	
07	TEWB386	1	PC	GASKET	

7.6. Back Cover - Barrier & Screw

- 1. Fix back cover to cabinet.
- 2. Fix screw at back cover.
- 3. Fix M6 cap at back cover.



No.	Part Num	QTY	UOM	Description	Remarks
01	THTD030J	20	PC	SCREW (BC18/BTM_COVER2)	10 ± 2 Kgfc _m
02	TKKL5521		PC	M6 CAP	
03	THEC1509	15	PC	SCREW (BC16)	6 ± 1 Kgfc _m

8 Measurements and Adjustments

8.1. Voltage chart of A-board

Set A-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Power Supply Name	Measurement Point	Specification
SUB1.1V	TP8100	1.10V - 1.22V
SUB1.5V	TP8101	1.435V - 1.585V
SUB1.8V	TP8700	1.7V - 1.9V
SUB3.3V	TP5400	3.17V - 3.43V
SUB5V	TP5420	4.95V - 5.65V
USB_5V	TP5440	4.80V - 5.25V
PNL12V	TP4004 or TP4005	11.45V - 12.55V

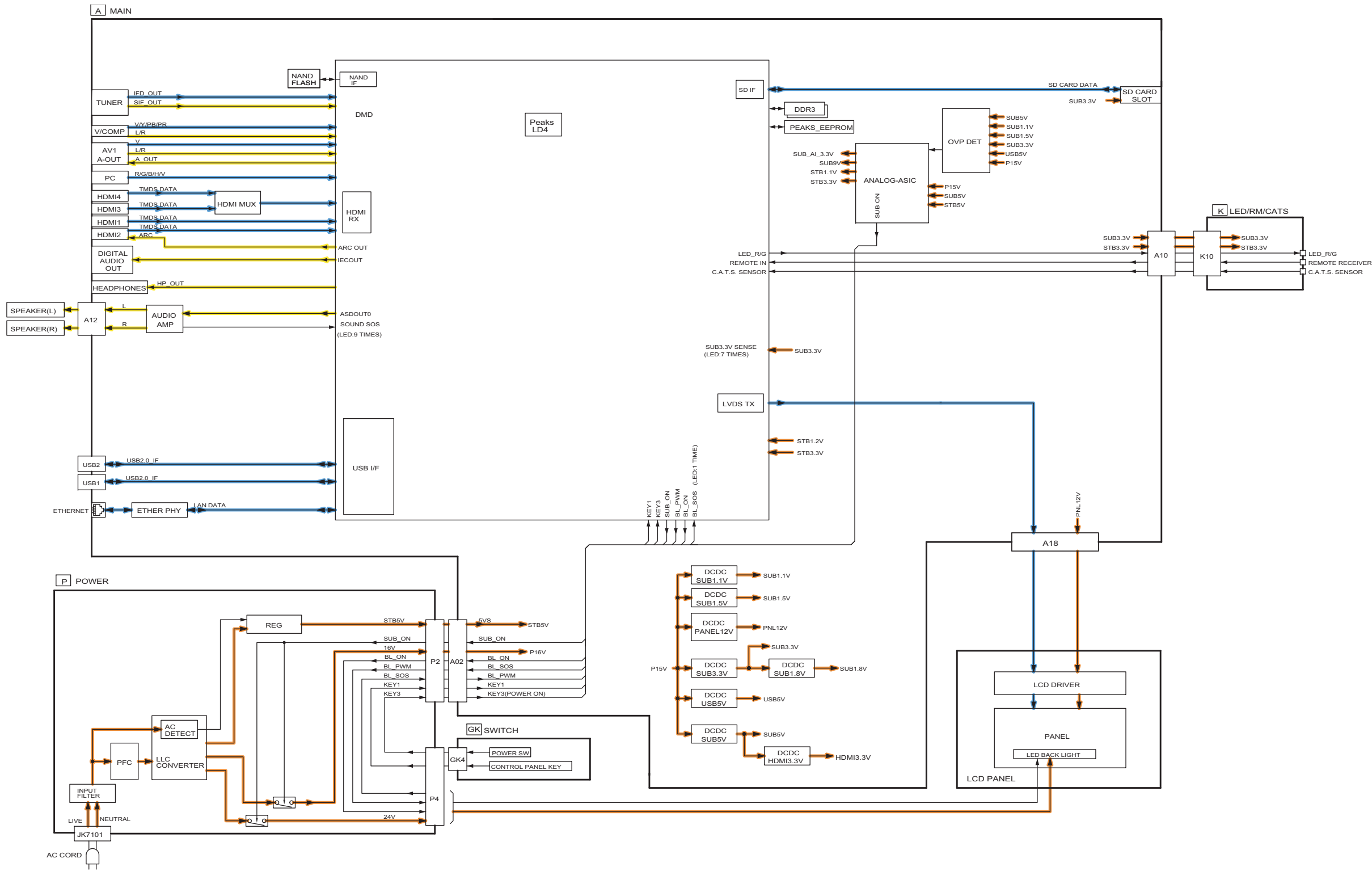
8.2. Voltage chart of P-board

Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

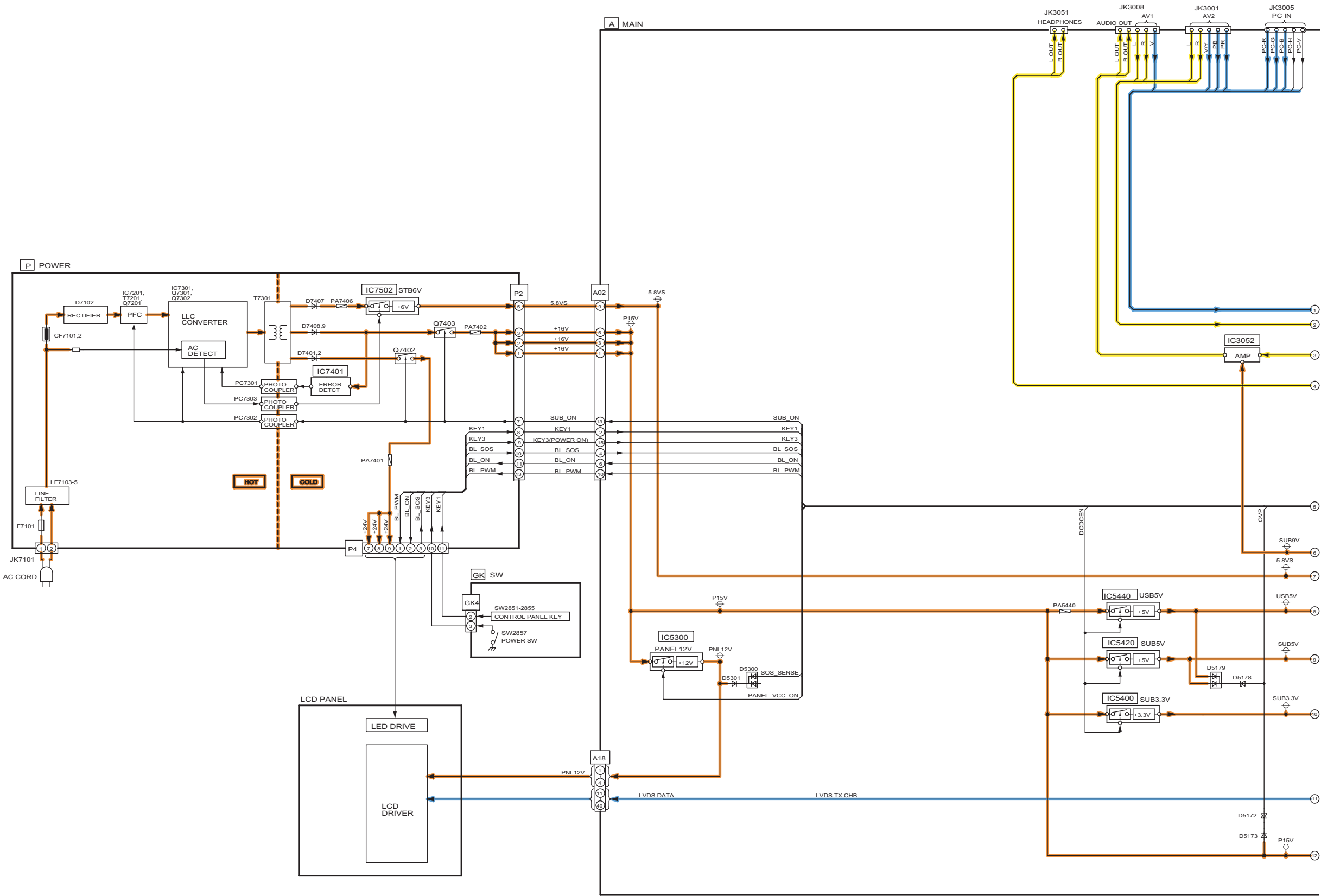
Output	Test Point	Step 1	Step 2	
24V (PANEL)	TP7512 or TP7513	< 1V	24 V $\pm$ 1.2 V	
16V	TP7508 or TP7514	< 1V	16.1V $\pm$ 0.6V	
5VS	TP7412 or TP7507	5.3V $\pm$ 0.1V	5.3 V $\pm$ 0.1 V	
PFC	TP7201 or TP7202	< 340V	390V $\pm$ 15V	*HOT

9 Block Diagram

9.1. Main Block Diagram



9.2. Detailed Block Diagram (1/2)





10 Wiring Connection Diagram

10.1. Wire Dressing

1. Dressing wire with tape and LVDS wire with Al-pet tape.
2. Fix spacer at P pcb.
3. Fix bottom cover at bottom metal.

FIG 2

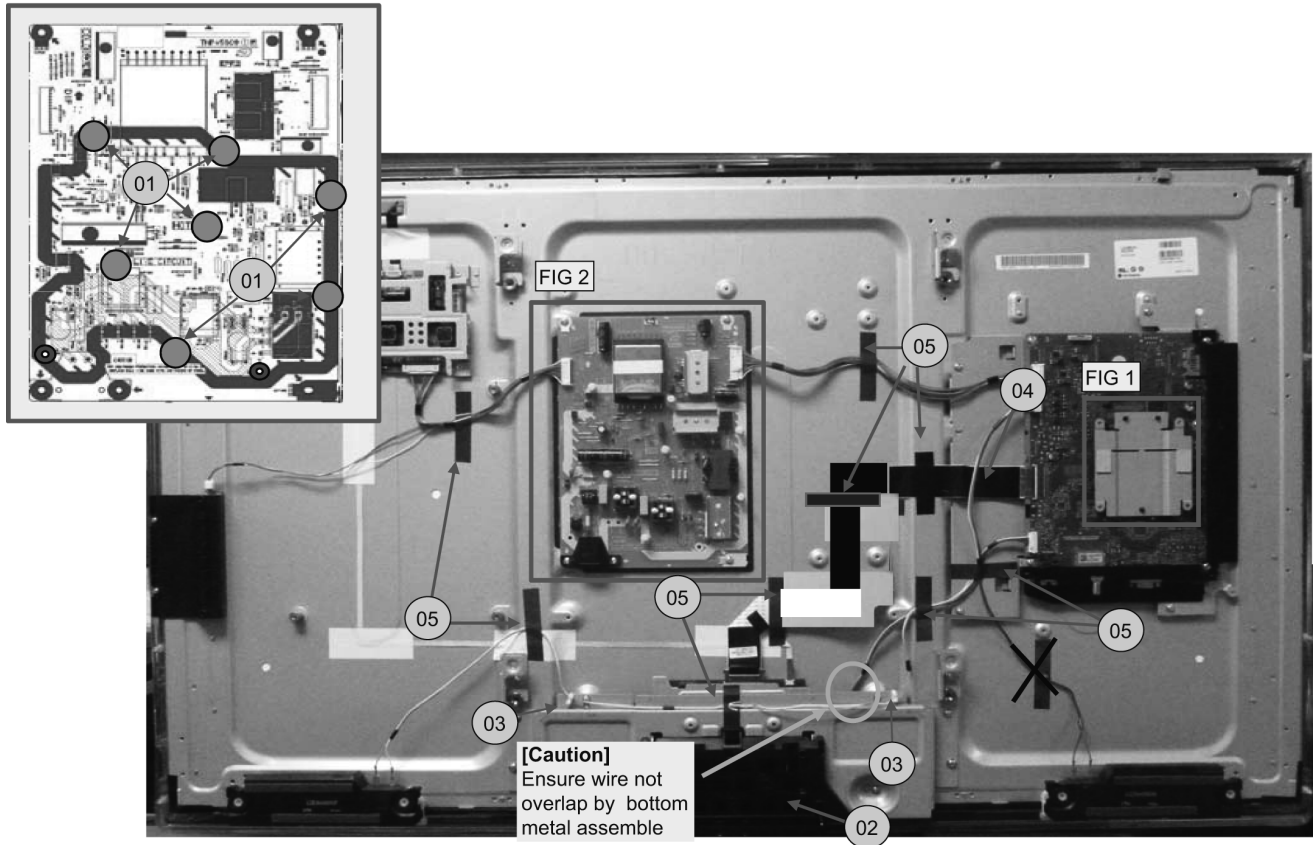
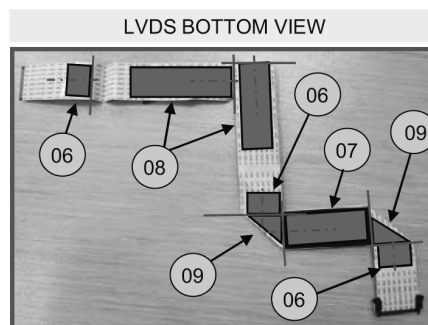
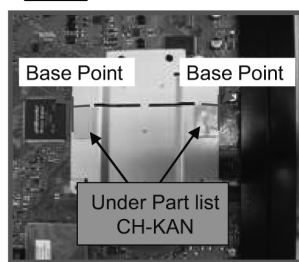
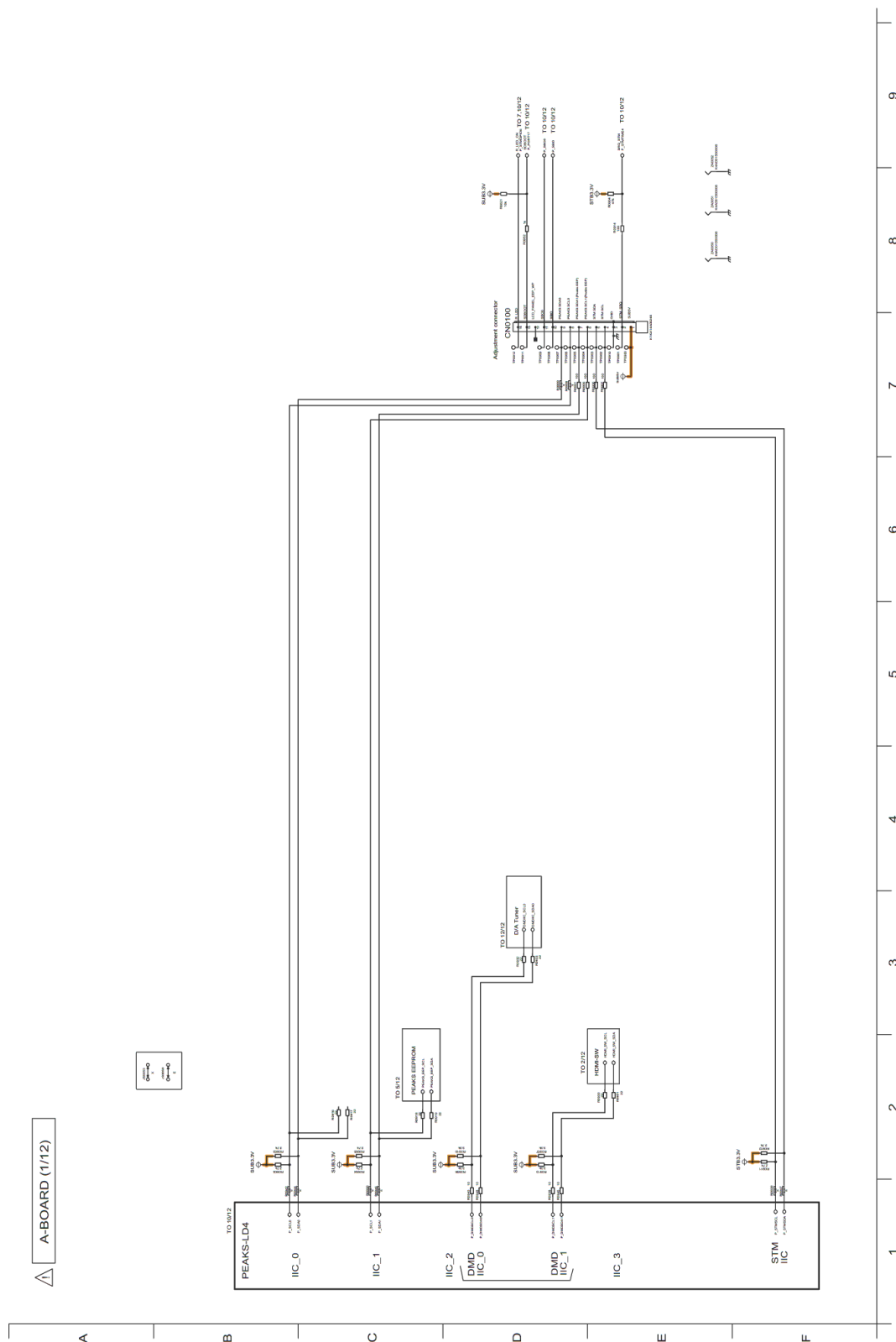


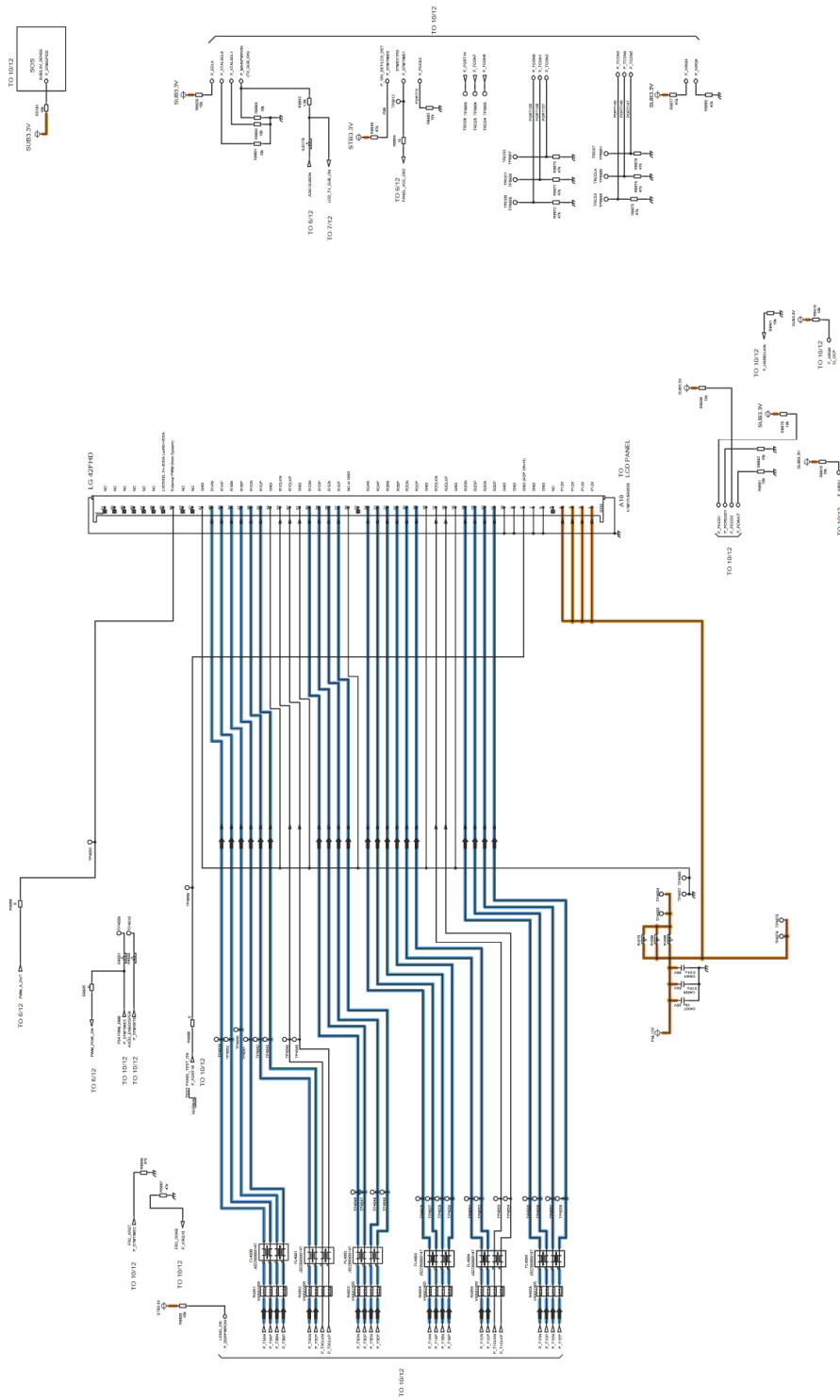
FIG 1



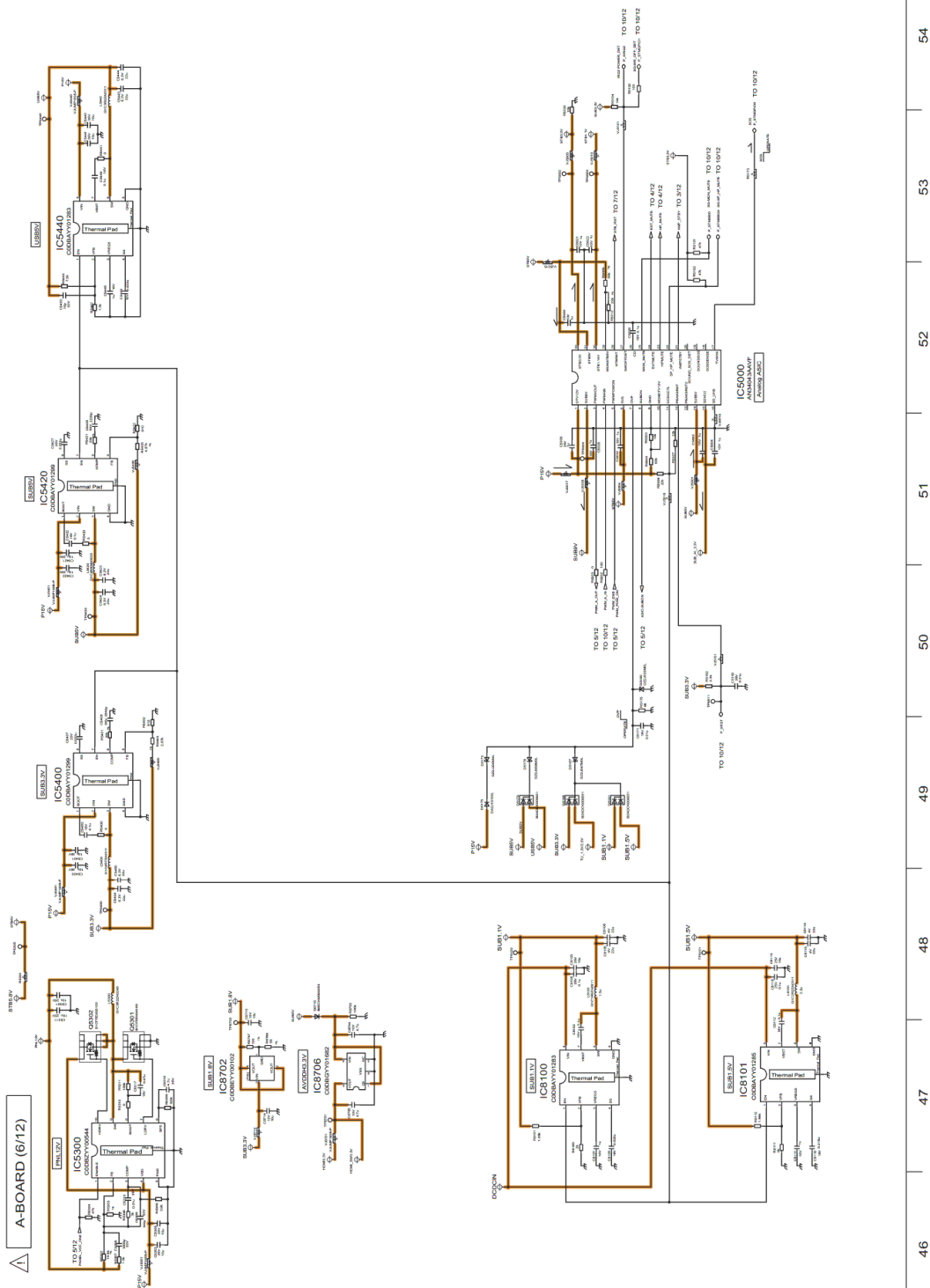
No.	Part Num	QTY	UOM	Description
01	TMME399	7	PC	SPACER (P_PCB)
02	TKP5ZA13801A	1	PC	BOTTOM COVER
03	TMME268	2	PC	CLAMPER (LCD2)
04	TSCFF0030024	1	PC	LVDS CABLE
05	T4FP1505J	9	PC	PET TAPE (0.07 × 11)
06	TMK4GG073	3	PC	SPONGE (AT BACK SIDE LVDS)
07	TMK4GG062	1	PC	SPONGE (AT BACK SIDE LVDS)
08	TMK4GG063	2	PC	SPONGE (AT BACK SIDE LVDS)
09	TMK4GG064	2	PC	SPONGE (AT BACK SIDE LVDS)



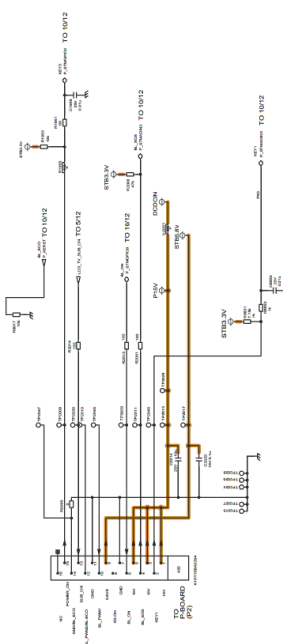
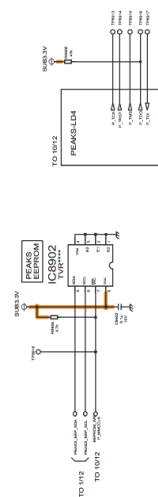
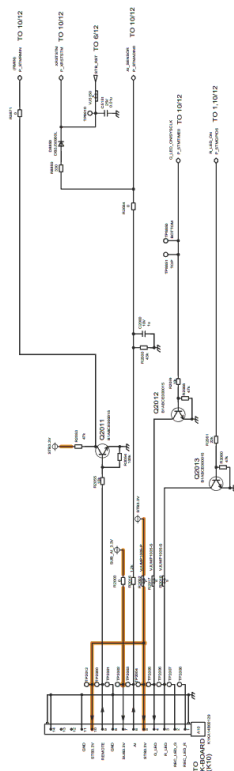
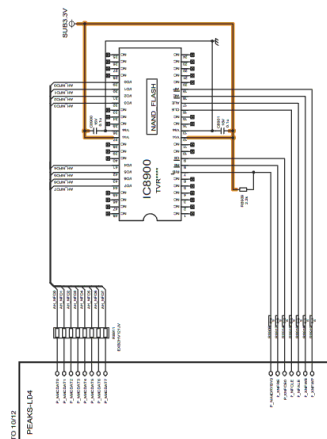
A-BOARD (5/12)



37 38 39 40 41 42 43 44 45

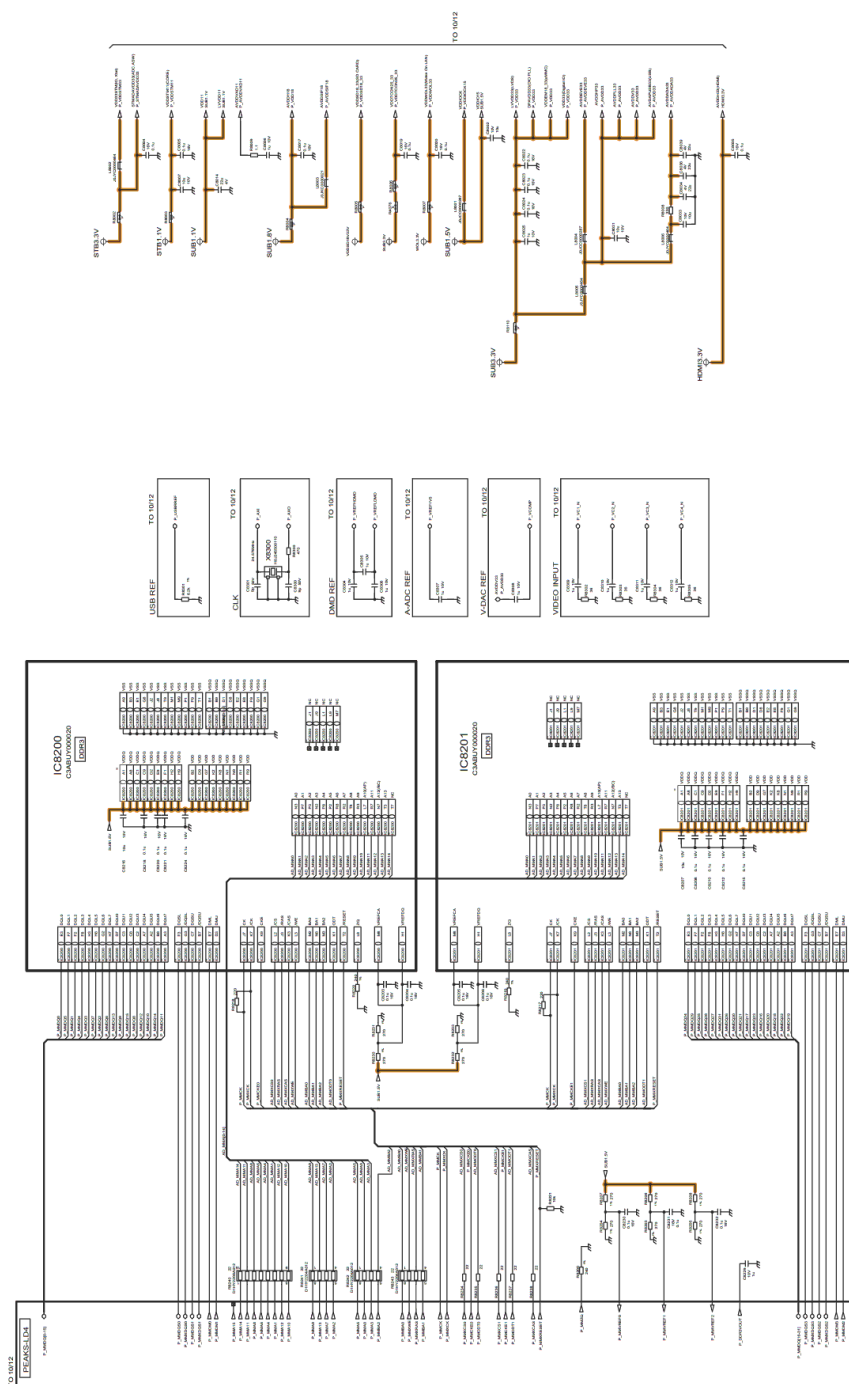


A-BOARD (7/12)

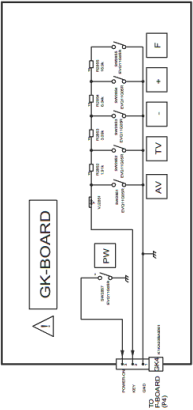


PEAKS
C8000
JUN24NS-02508





Model No. : TH-L47E5R GK-Board



9

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1

A

B

C

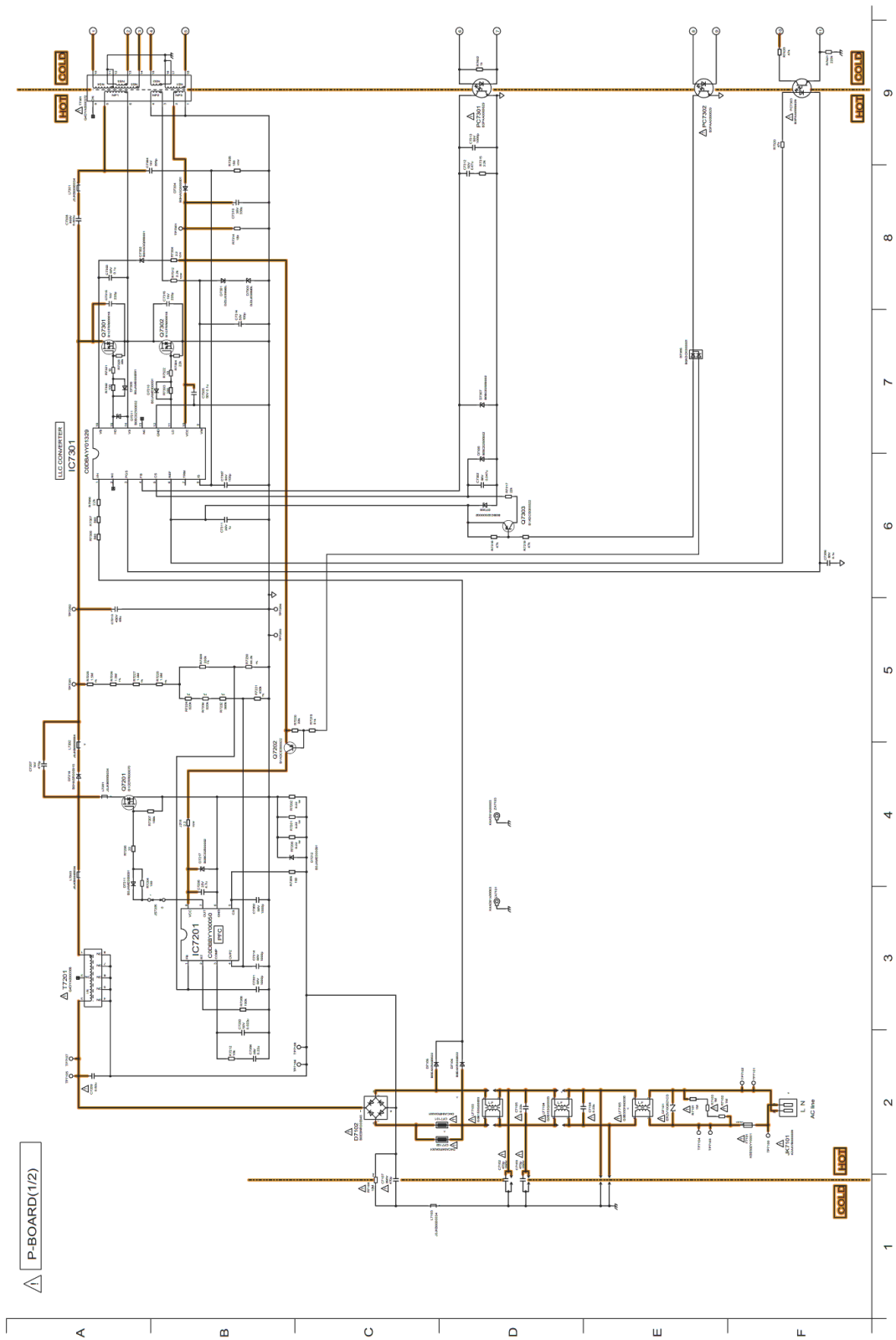
D

E

F

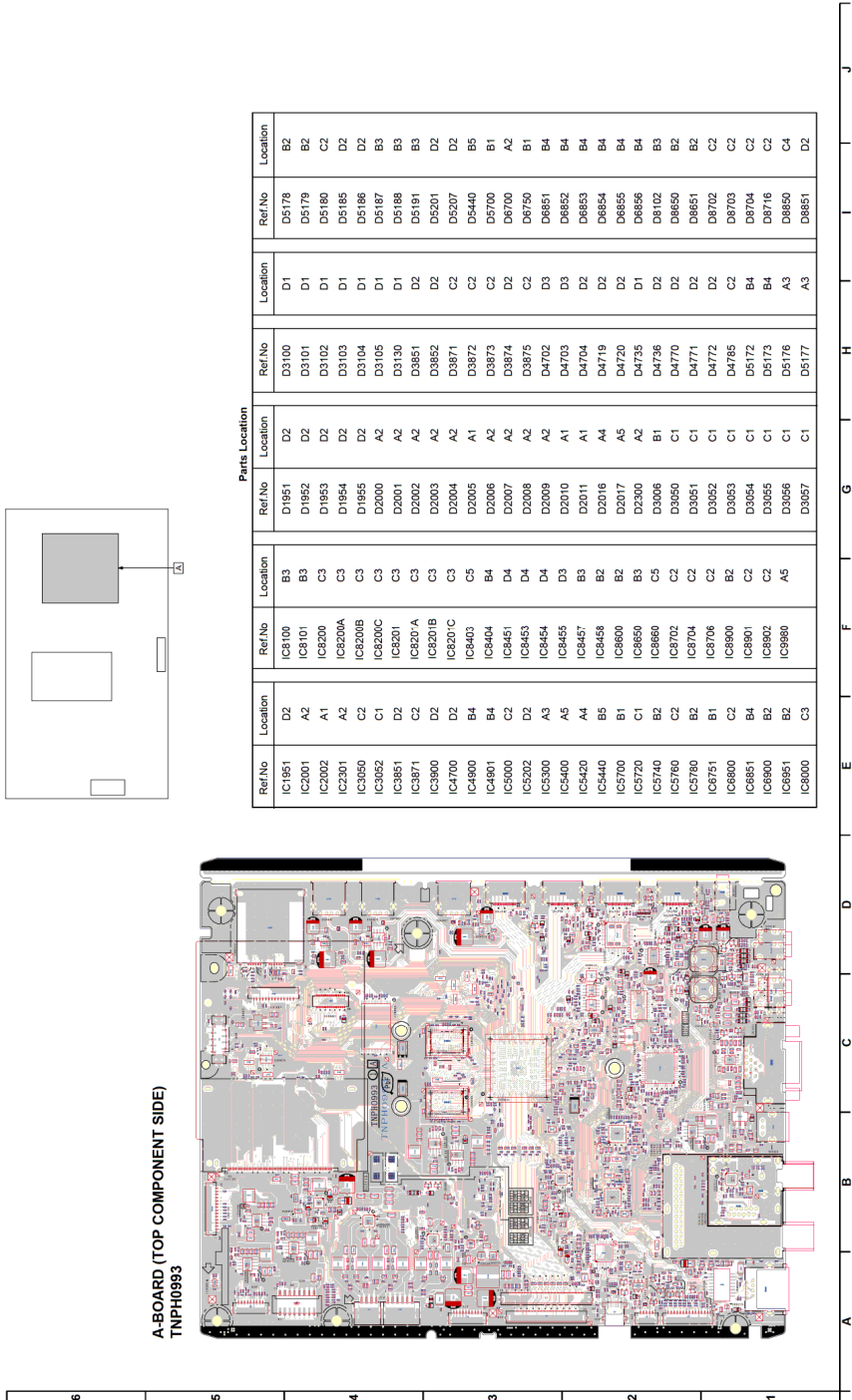
Model No. : TH-L47E5R K-Board

Model No. : TH-L47E5R P-Board (1/2)



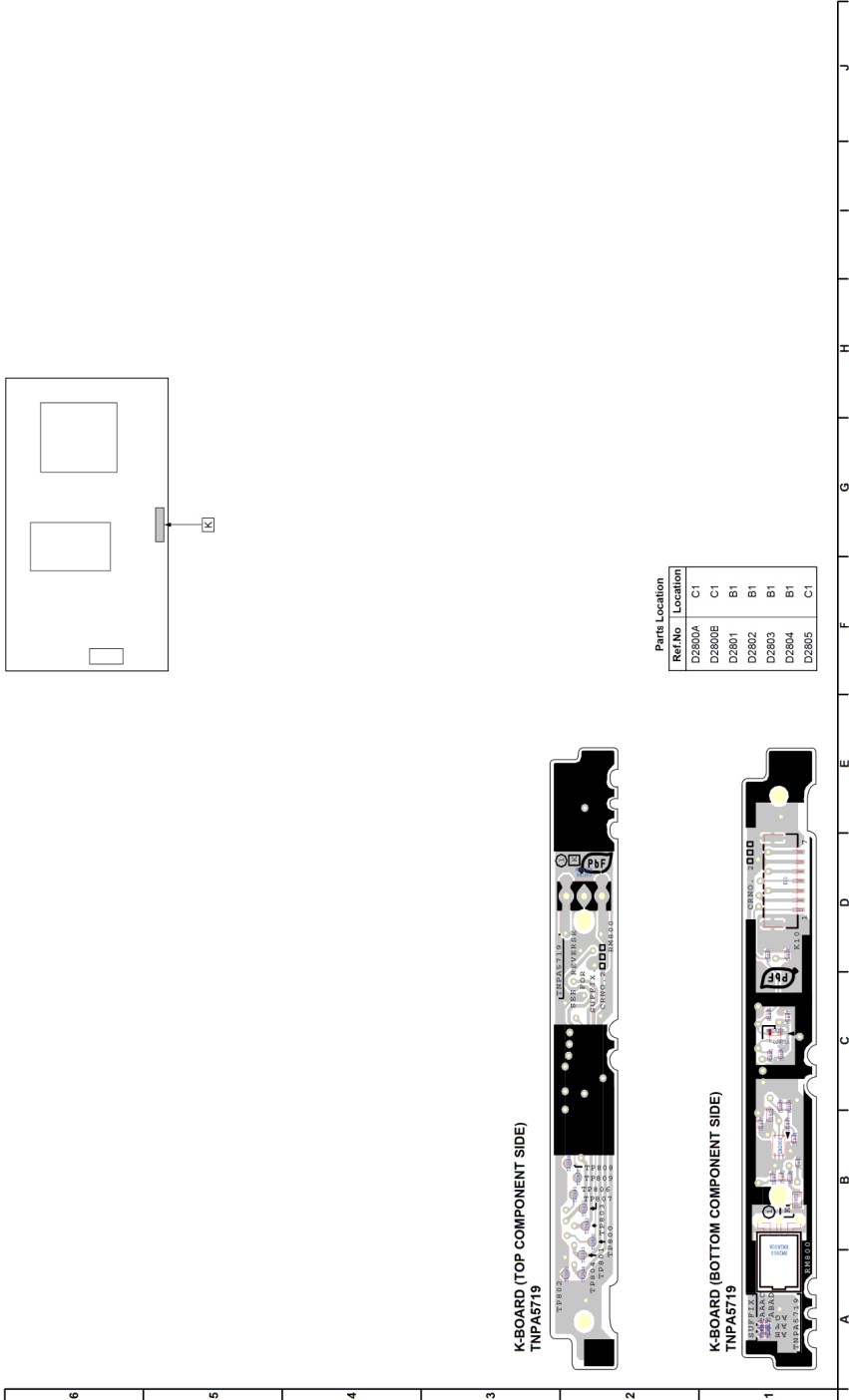
12 Printed Circuit Board

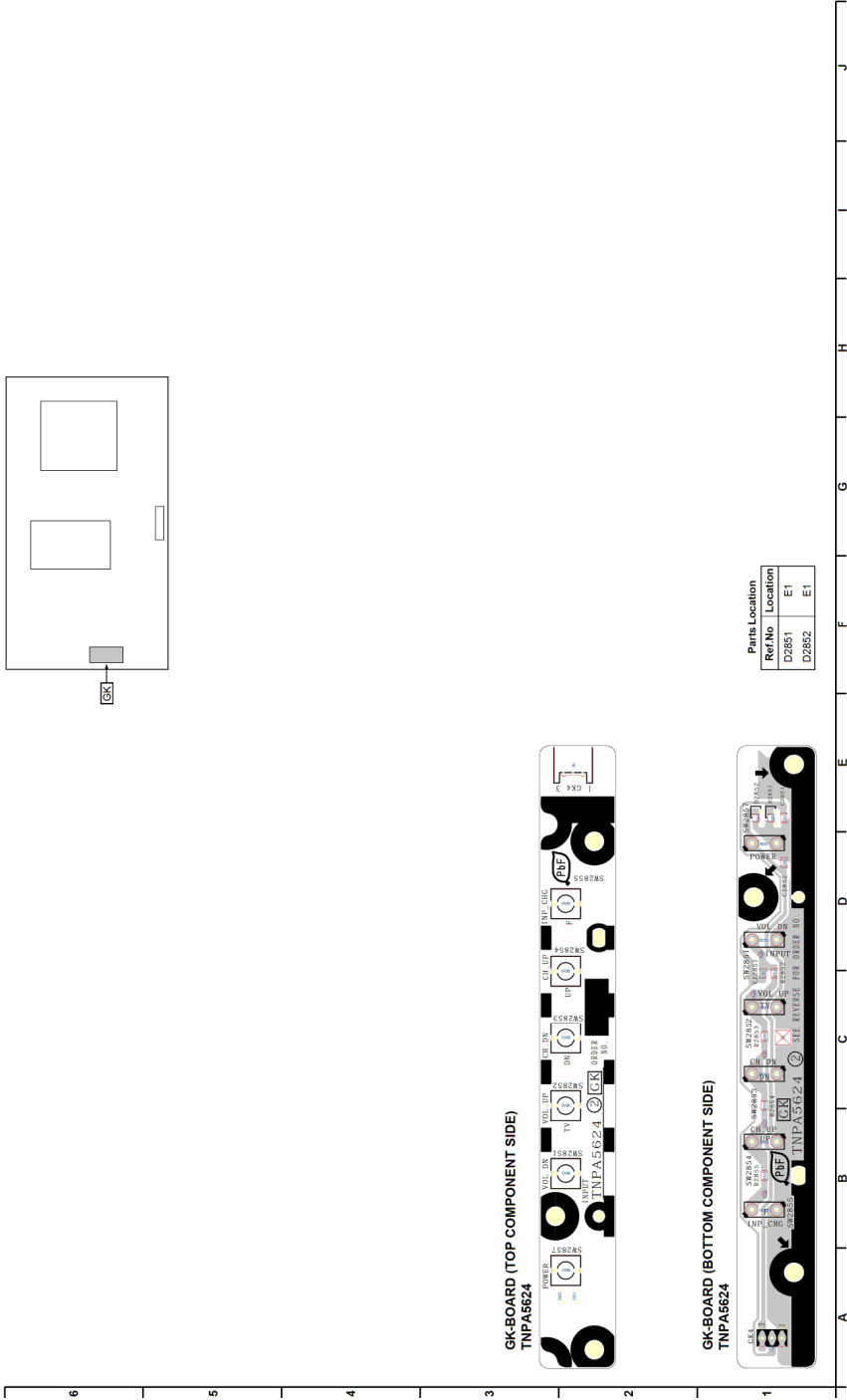
Model No. : TH-L47E5R A-Board (Top Component Side)



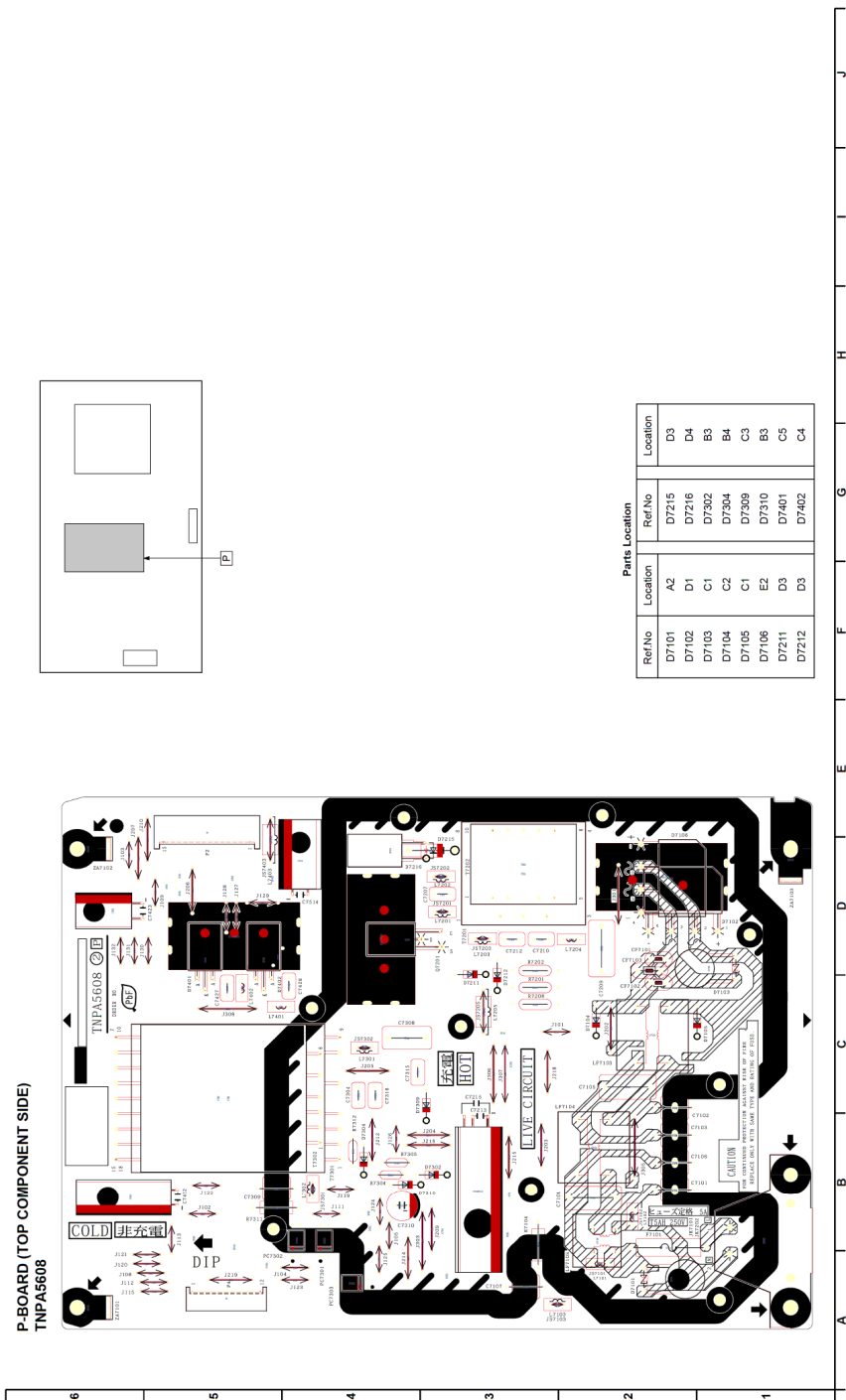
Model No. : TH-L47E5R A-Board (Bottom Component Side)



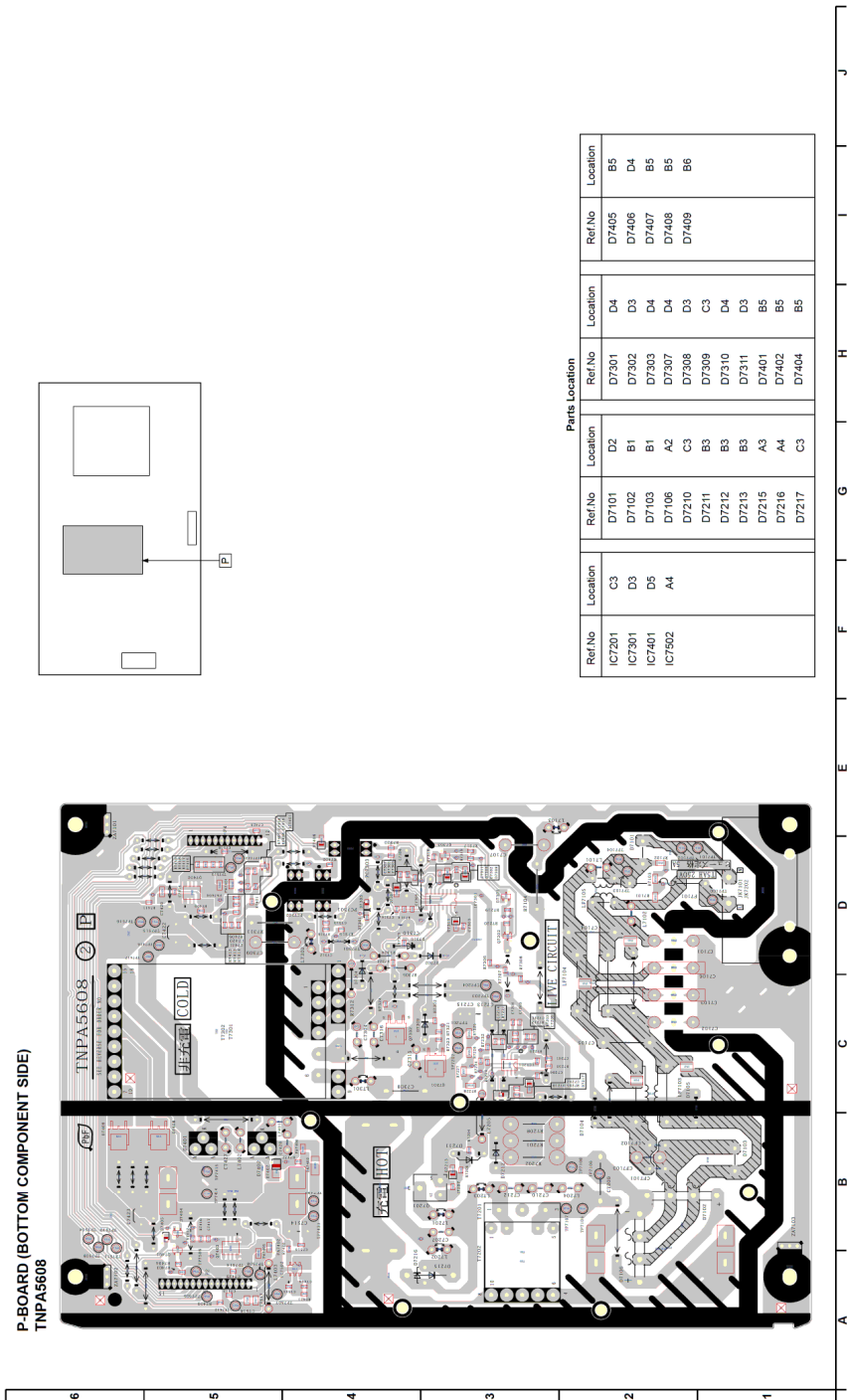




Model No. : TH-L47E5R P-Board (Top Component Side)

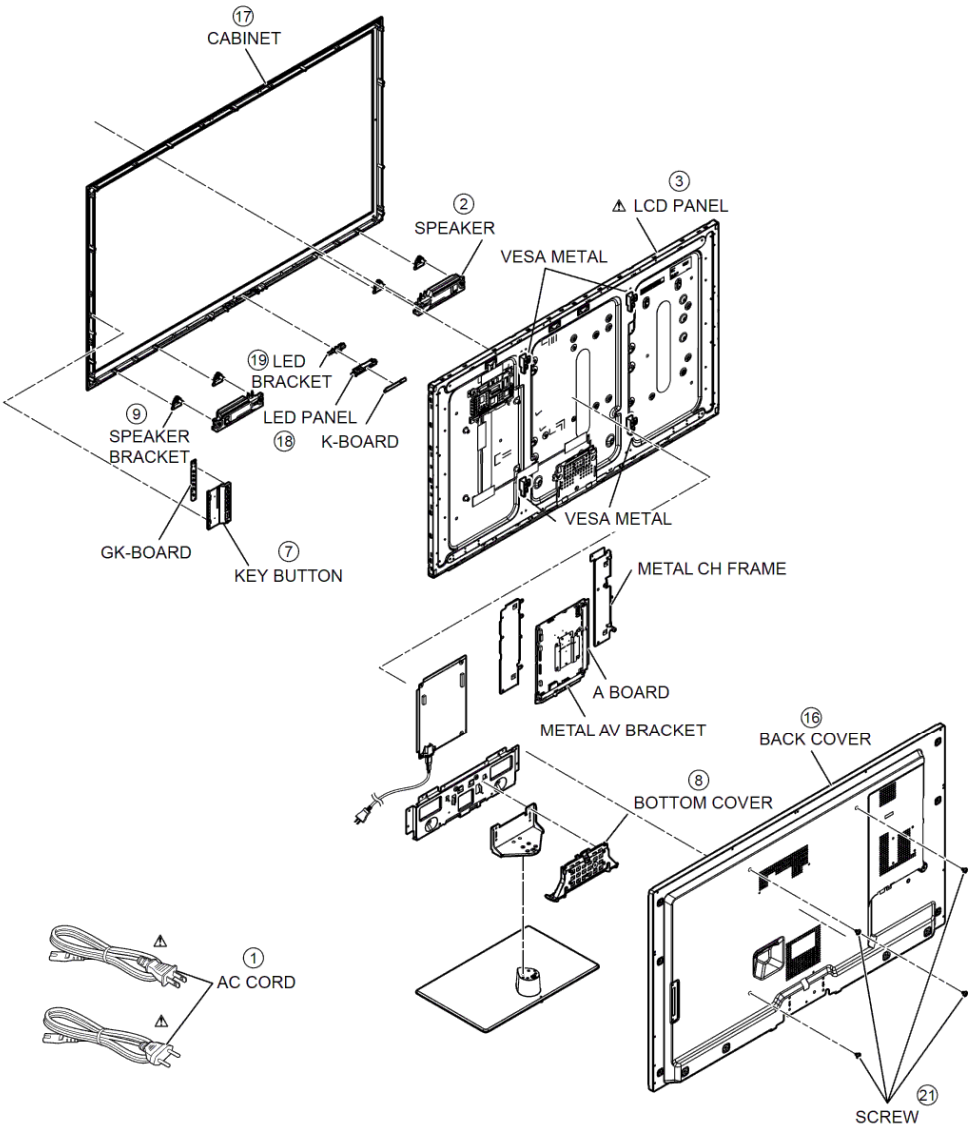


Model No. : TH-L47E5R P-Board (Bottom Component Side)

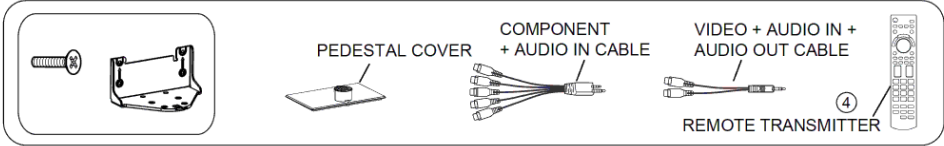


13 Exploded View and Replacement Parts List

Model No. : TH-L47E5R Parts Location

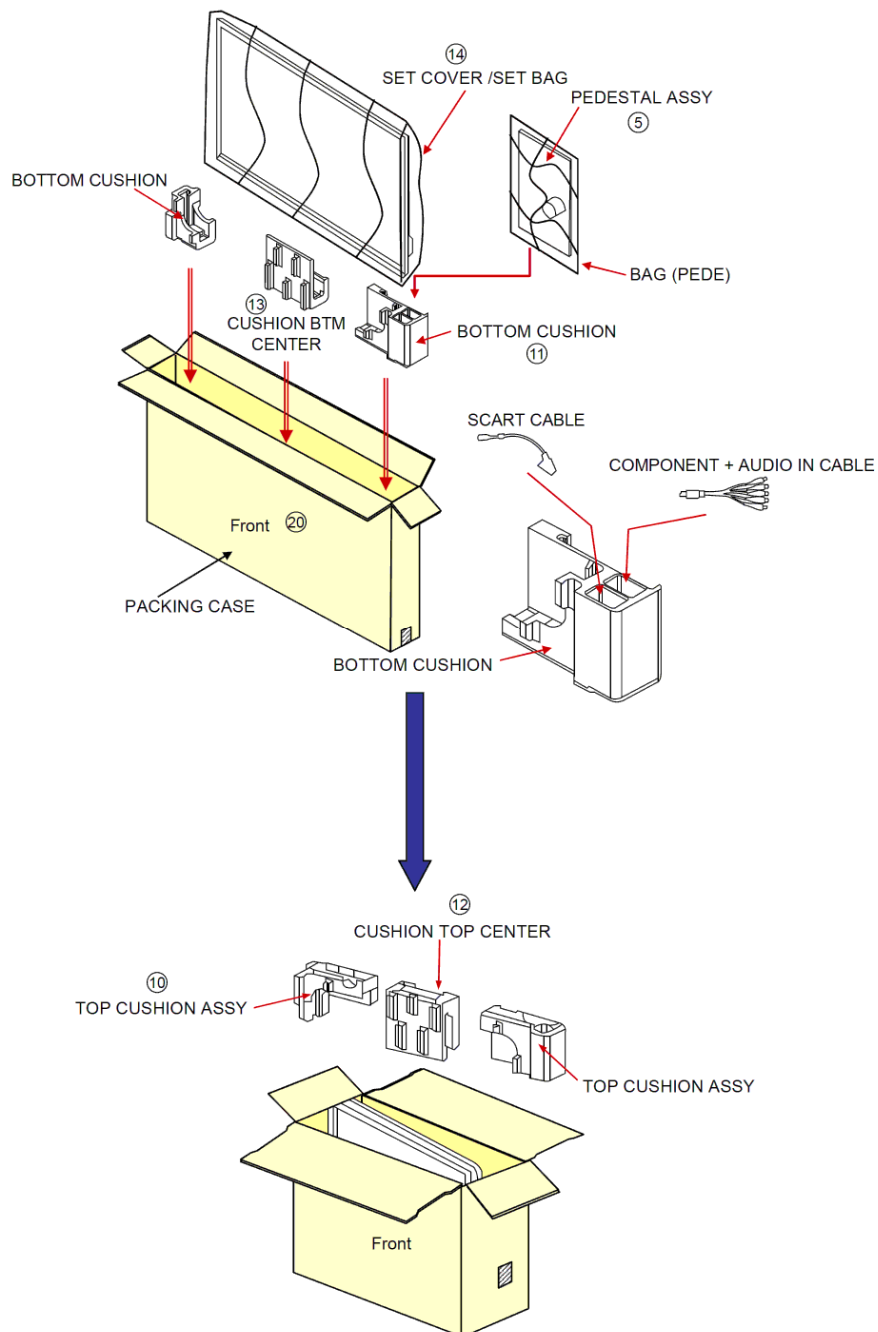


Accessories



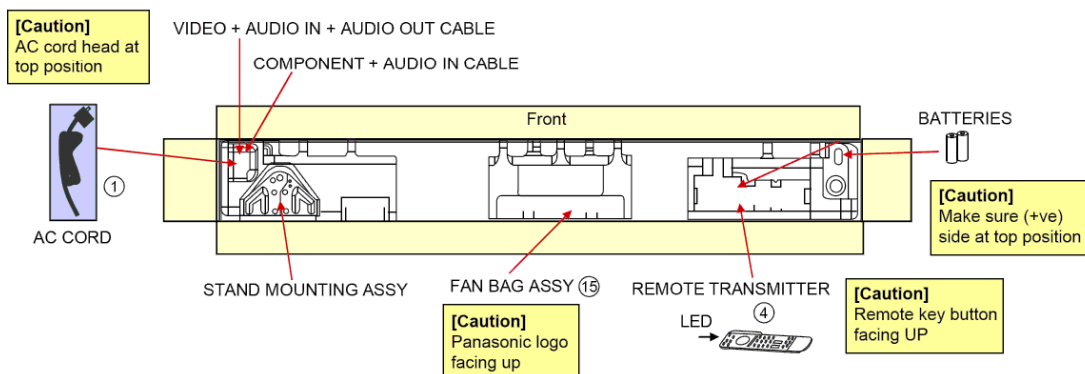
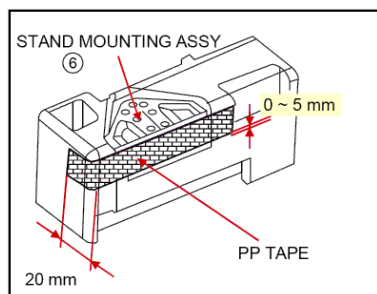
Model No. : TH-L47E5R Packing Exploded View 1

1. Fold packing case at bottom side and tapping with tape
2. Insert bottom cushion at packing case
3. Cover set with set cover and inside to packing case
4. Insert pedestal at bottom cushion



Model No. : TH-L47E5R Packing Exploded View 2

1. Insert top cushion.
2. Insert remote transmitter, stand mounting, fan bag and battery at top cushion.
3. Fold packing case flap and tape with PP tape.
4. Stick label combination (barcode label) and packing case label at packing case.



Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITOR						
		C1958	F1G1E1030005	C 0.01UF 25V		
		C2000	F1G1A105A047	C 1UF 10V		
		C2014	F1K1E106A134	C 10UF, 25V		
		C2023	F1G1C104A077	C 0.1UF 16V		
		C2802	F1G1C1030008	C 0.01UF 16V		
		C2805	F1H1C104A041	C 0.1UF, 16V		
		C2811	F1J1A106A087	C 10UF, 10V		
		C3084	F1H0J105A051	C 1UF, 6.3V		
		C3085	F1H0J105A051	C 1UF, 6.3V		
		C3086	F1H0J105A051	C 1UF, 6.3V		
		C3108	F1G1H561A830	C 560 pF 50 V		
		C3109	F1G1H561A830	C 560 pF 50 V		
		C3114	F1G1E333A059	C 0.033UF, 25V		
		C3115	F1G1E333A059	C 0.033UF, 25V		
		C3116	F1H0J105A051	C 1UF, 6.3V		
		C3117	F1H0J105A051	C 1UF, 6.3V		
		C3118	F1H0J105A051	C 1UF, 6.3V		
		C3131	F1H0J105A051	C 1UF, 6.3V		
		C3145	F1J1A106A087	C 10UF, 10V		
		C3147	F1J1A106A087	C 10UF, 10V		
		C3151	F1H1A105A099	C 1UF, 10V		
		C3152	F1H1A105A099	C 1UF, 10V		
		C3159	F1H1A105A099	C 1UF, 10V		
		C3160	F1H1A105A099	C 1UF, 10V		
		C3171	F1J1A106A087	C 10UF, 10V		
		C3172	F1J1A106A087	C 10UF, 10V		
		C3175	F1J1E105A287	C 1UF, 25V		
		C3176	F1J1A106A087	C 10UF, 10V		
		C3177	F1J1E105A287	C 1UF, 25V		
		C4000	F1H1H103B047	C 0.01UF, 50V		
		C4001	F1H1H103B047	C 0.01UF, 50V		
		C4037	F1K1E106A134	C 10UF, 25V		
		C4702	F1H0J105A051	C 1UF, 6.3V		
		C4713	F1G1C104A077	C 0.1UF 16V		
		C4716	F1G1C104A077	C 0.1UF 16V		
		C4722	F1G1C104A077	C 0.1UF 16V		
		C4723	F1G1C104A077	C 0.1UF 16V		
		C4727	F1J1A106A087	C 10UF, 10V		
		C4900	F1K1V106A010	C 10UF, 25V		
		C4901	F1K1V106A010	C 10UF, 25V		
		C4903	F1G1C104A077	C 0.1UF 16V		
		C4904	F1G1C104A077	C 0.1UF 16V		
		C4905	F1G1C104A077	C 0.1UF 16V		
		C4906	F1G1C104A077	C 0.1UF 16V		
		C4907	F1K1V106A010	C 10UF, 25V		
		C4909	F1K1V106A010	C 10UF, 25V		
		C4921	F1J1E474A272	C 0.47UF, 25V		
		C4922	F1J1E474A272	C 0.47UF, 25V		
		C4923	F1J1E474A272	C 0.47UF, 25V		
		C4924	F1J1E474A272	C 0.47UF, 25V		
		C4971	F2G0G101A007	E 100UF 6.3V		
		C4972	F2G0G101A007	E 100UF 6.3V		
		C5000	F1G1A105A047	C 1UF 10V		
		C5002	F1G1A105A047	C 1UF 10V		
		C5004	F1G1A105A047	C 1UF 10V		
		C5006	F1J1E105A287	C 1UF, 25V		
		C5012	F1G1A105A047	C 1UF 10V		
		C5020	F1G1C104A077	C 0.1UF 16V		
		C5021	F1G1A105A047	C 1UF 10V		
		C5022	F1G1A105A047	C 1UF 10V		
		C5026	F1H1C105A145	C 1 uF 16 V		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5150	F1G1E1030005	C 0.01UF 25V		
		C5151	F1G1E1030005	C 0.01UF 25V		
		C5171	F1G1C1030008	C 0.01UF 16V		
		C5301	F1K1E106A134	C 10UF, 25V		
		C5303	F1K1E106A134	C 10UF, 25V		
		C5305	F1K1E106A134	C 10UF, 25V		
		C5308	F1G1H1020008	C 1000PF 50V		
		C5309	F1G1H101A834	C 100PF 50V		
		C5310	F1G1E1030005	C 0.01UF 25V		
		C5311	F1K1E106A134	C 10UF, 25V		
		C5316	F1J1E475A182	C 4.7UF, 25V		
		C5317	F1H1C474A178	C 0.47UF, 16V		
		C5400	F1K1V106A010	C 10UF, 25V		
		C5401	F1K1V106A010	C 10UF, 25V		
		C5402	F1G1C104A077	C 0.1UF 16V		
		C5403	F1J0J2260004	C 22 UF 6.3 V		
		C5404	F1J0J2260004	C 22 UF 6.3 V		
		C5407	F1G1E333A059	C 0.033UF, 25V		
		C5408	F1G1H222A830	C 2200PF, 50V		
		C5420	F1K1V106A010	C 10UF, 25V		
		C5421	F1K1V106A010	C 10UF, 25V		
		C5422	F1G1C104A077	C 0.1UF 16V		
		C5423	F1J0J2260004	C 22 UF 6.3 V		
		C5424	F1J0J2260004	C 22 UF 6.3 V		
		C5427	F1G1E333A059	C 0.033UF, 25V		
		C5428	F1G1H222A830	C 2200PF, 50V		
		C5440	F1K1V106A010	C 10UF, 25V		
		C5441	F1K1V106A010	C 10UF, 25V		
		C5442	F1G1C223A081	C 0.022UF, 16V		
		C5443	F1J0J2260004	C 22 UF 6.3 V		
		C5444	F1J0J2260004	C 22 UF 6.3 V		
		C5448	F1H1C105A145	C 1 uF 16 V		
		C5449	F1G1C104A077	C 0.1UF 16V		
		C5450	F1G1H100A833	C 10PF 50V		
		C6707	F1G1C104A077	C 0.1UF 16V		
		C6708	F1J1A106A087	C 10UF, 10V		
		C6710	F1G1C104A077	C 0.1UF 16V		
		C6719	F1G1C104A077	C 0.1UF 16V		
		C6720	F1G1C104A077	C 0.1UF 16V		
		C6721	F1G1C104A077	C 0.1UF 16V		
		C6723	F1G1H330A834	C 33PF, 50V		
		C6724	F1G1H330A834	C 33PF, 50V		
		C6733	F1G1C104A077	C 0.1UF 16V		
		C6740	F1J1A106A087	C 10UF, 10V		
		C6743	F1G1C104A077	C 0.1UF 16V		
		C6744	F1G1C104A077	C 0.1UF 16V		
		C6745	F1G1C104A077	C 0.1UF 16V		
		C6746	F1G1C104A077	C 0.1UF 16V		
		C6747	F1G1H101A834	C 100PF 50V		
		C6772	F1G1H101A834	C 100PF 50V		
		C6775	F1J1A106A087	C 10UF, 10V		
	⚠	C7102	F1A2E471A007	C 470PF, 250V		
	⚠	C7103	F1A2E471A007	C 470PF, 250V		
	⚠	C7104	F0CAF224A124	C 0.22UF, 250V		
	⚠	C7105	F0CAF224A124	C 0.22UF, 250V		
	⚠	C7107	F1A2E471A007	C 470PF, 250V		
		C7201	F1J1H102A909	C 1000pF, 50V		
		C7202	F1J1H102A909	C 1000pF, 50V		
		C7203	F1J1H223A900	C 0.022UF, 50V		
		C7204	F1J1E224A272	C 0.22UF, 25V		
		C7206	F1J1E475A257	C 4.7UF, 25V		
		C7207	F1A3A471A060	C 470PF 1KV		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7209	ECWF2W824KAC	C 0.82UF, 450V		
		C7213	F2A2W6800011	C 68UF 450V		
		C7214	F1J1H102A909	C 1000pF, 50V		
		C7302	F1J1H473A835	C 0.047UF, 50V		
		C7303	F1J1H104A902	C 0.1UF, 50V		
		C7304	F1A3A221A060	C 220PF 1KV		
		C7305	F1J1H104A902	C 0.1UF, 50V		
		C7306	F1J1H104A902	C 0.1UF, 50V		
		C7307	F1J1H101A906	C 100PF, 50V		
		C7308	ECWH8223HAC	C 0.022UF, Z, 800V		
		C7310	F2A1V3310067	C 150UF 35V		
		C7311	F1J1E105A287	C 1UF, 25V		
		C7312	F1J1H474A757	C 0.47UF, 50V		
		C7313	F1J1H102A909	C 1000pF, 50V		
		C7314	F1J1H101A906	C 100PF, 50V		
		C7315	F1A3A221A060	C 220PF 1KV		
		C7316	F1A3A221A060	C 220PF 1KV		
		C7416	F1J1C475A225	C 4.7UF, 10V		
		C7417	F1J1E105A287	C 1UF, 25V		
		C7418	F1J1H104A902	C 0.1UF, 50V		
		C7422	F2A1V6810039	C 680UF 35V		
		C7423	F2A1E6810033	E 680UF 25V		
		C7427	F1A3A471A060	C 470PF 1KV		
		C7428	F1A3A471A060	C 470PF 1KV		
		C7429	F1K1E106A134	C 10UF, 25V		
		C7514	F2A1C2220116	C 2200UF 16V		
		C7515	F1J1E105A287	C 1UF, 25V		
		C8002	F1J1A106A087	C 10UF, 10V		
		C8004	F1G1C104A077	C 0.1UF 16V		
		C8005	F1G1C104A077	C 0.1UF 16V		
		C8007	F1J1A106A087	C 10UF, 10V		
		C8014	F1J0G2260001	C 22 UF 4 V		
		C8017	F1G1C104A077	C 0.1UF 16V		
		C8019	F1G1C104A077	C 0.1UF 16V		
		C8020	F1G1C104A077	C 0.1UF 16V		
		C8022	F1G1C104A077	C 0.1UF 16V		
		C8023	F1G1C104A077	C 0.1UF 16V		
		C8024	F1G1C104A077	C 0.1UF 16V		
		C8025	F1G1A105A047	C 1UF 10V		
		C8031	F1J1A106A087	C 10UF, 10V		
		C8033	F1J1A106A087	C 10UF, 10V		
		C8034	F1J0G2260001	C 22 UF 4 V		
		C8035	F1G1C104A077	C 0.1UF 16V		
		C8036	F1G1A105A047	C 1UF 10V		
		C8038	F1J0G2260001	C 22 UF 4 V		
		C8039	F1J0G2260001	C 22 UF 4 V		
		C8100	F1G1C223A146	C 0.022UF, 16V		
		C8101	F1H1C105A145	C 1 uF 16 V		
		C8102	F1G1C104A077	C 0.1UF 16V		
		C8103	F1K1E106A134	C 10UF, 25V		
		C8105	F1J0G2260001	C 22 UF 4 V		
		C8106	F1J0G2260001	C 22 UF 4 V		
		C8108	F1H1E104A029	C 0.1UF 25V		
		C8110	F1G1C183A146	C 0.018UF, 16V		
		C8111	F1H1C105A145	C 1 uF 16 V		
		C8112	F1G1C104A077	C 0.1UF 16V		
		C8113	F1K1E106A134	C 10UF, 25V		
		C8115	F1J0G2260001	C 22 UF 4 V		
		C8116	F1J0G2260001	C 22 UF 4 V		
		C8118	F1H1E104A029	C 0.1UF 25V		
		C8203	F1G1C104A077	C 0.1UF 16V		
		C8204	F1G1C104A077	C 0.1UF 16V		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8205	F1G1C104A077	C 0.1UF 16V		
		C8206	F1G1C104A077	C 0.1UF 16V		
		C8207	F1J1A106A087	C 10UF, 10V		
		C8208	F1G1C104A077	C 0.1UF 16V		
		C8210	F1G1C104A077	C 0.1UF 16V		
		C8212	F1G1C104A077	C 0.1UF 16V		
		C8215	F1G1C104A077	C 0.1UF 16V		
		C8216	F1J1A106A087	C 10UF, 10V		
		C8218	F1G1C104A077	C 0.1UF 16V		
		C8220	F1G1C104A077	C 0.1UF 16V		
		C8221	F1G1C104A077	C 0.1UF 16V		
		C8224	F1G1C104A077	C 0.1UF 16V		
		C8229	F1G1A105A047	C 1UF 10V		
		C8230	F1G1C104A077	C 0.1UF 16V		
		C8231	F1G1C104A077	C 0.1UF 16V		
		C8232	F1G1C104A077	C 0.1UF 16V		
		C8300	F1G1H9R0A831	C 9 PF, 50V		
		C8301	F1G1H9R0A831	C 9 PF, 50V		
		C8304	F1G1A105A047	C 1UF 10V		
		C8305	F1G1A105A047	C 1UF 10V		
		C8306	F1G1A105A047	C 1UF 10V		
		C8307	F1G1A105A047	C 1UF 10V		
		C8308	F1G1A105A047	C 1UF 10V		
		C8309	F1G1A105A047	C 1UF 10V		
		C8310	F1G1A105A047	C 1UF 10V		
		C8311	F1G1A105A047	C 1UF 10V		
		C8312	F1G1A105A047	C 1UF 10V		
		C8452	F1J1A106A087	C 10UF, 10V		
		C8453	F1G1C104A077	C 0.1UF 16V		
		C8454	EEEHB0J221UP	E 220UF, 6.3V		
		C8455	F1J1A106A087	C 10UF, 10V		
		C8457	F1G1C104A077	C 0.1UF 16V		
		C8461	F1J1A106A087	C 10UF, 10V		
		C8463	F1G1C104A077	C 0.1UF 16V		
		C8465	EEEHB0J221UP	E 220UF, 6.3V		
		C8467	F1J1A106A087	C 10UF, 10V		
		C8470	F1G1C104A077	C 0.1UF 16V		
		C8481	F1H1C105A145	C 1 uF 16 V		
		C8483	F1H1C105A145	C 1 uF 16 V		
		C8600	F1L3D1020008	C 1000PF 2000V		
		C8601	F1G1C1030008	C 0.01UF 16V		
		C8602	F1G1C1030008	C 0.01UF 16V		
		C8603	F1G1H8R0A831	C 8 PF, 50V		
		C8604	F1G1H8R0A831	C 8 PF, 50V		
		C8611	F1G1C104A077	C 0.1UF 16V		
		C8613	F1G1C104A077	C 0.1UF 16V		
		C8615	F1G1C104A077	C 0.1UF 16V		
		C8619	F1G1C104A077	C 0.1UF 16V		
		C8621	F1G1C104A077	C 0.1UF 16V		
		C8660	F1G1C104A077	C 0.1UF 16V		
		C8661	F1G1C104A077	C 0.1UF 16V		
		C8668	F1G1C104A077	C 0.1UF 16V		
		C8669	F1J1A106A087	C 10UF, 10V		
		C8670	F1J0G2260001	C 22 UF 4 V		
		C8671	F1G1H220A834	C 22PF, 50V		
		C8673	F1J1A106A087	C 10UF, 10V		
		C8675	F1G1A105A047	C 1UF 10V		
		C8677	F1J1A106A087	C 10UF, 10V		
		C8680	F1J1A106A087	C 10UF, 10V		
		C8714	F1J1A106A087	C 10UF, 10V		
		C8715	F1J1A106A087	C 10UF, 10V		
		C8764	F1J1A475A039	C 4.7UF, 10V		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8765	F1J1A475A039	C 4.7UF, 10V		
		C8850	F1G1E1030005	C 0.01UF 25V		
		C8900	F1G1C104A077	C 0.1UF 16V		
		C8901	F1G1C104A077	C 0.1UF 16V		
		C8902	F1G1C104A077	C 0.1UF 16V		
DIODES						
		D3006	K7AAAY000014	DIODE		
		D3051	DZ2J140M0L	DIODE		
		D3055	DZ2J140M0L	DIODE		
		D3100	DZ2J140M0L	DIODE		
		D3101	DZ2J140M0L	DIODE		
		D3102	DZ2J140M0L	DIODE		
		D3103	DZ2J140M0L	DIODE		
		D3104	DZ2J140M0L	DIODE		
		D3105	DZ2J140M0L	DIODE		
		D4702	DA2J10100L	DIODE		
		D4704	DB2J30900L	DIODE		
		D4719	DA2J10100L	DIODE		
		D4735	DA2J10100L	DIODE		
		D4770	DA2J10100L	DIODE		
		D4785	DB2J30900L	DIODE		
		D5172	DZ2J220M0L	DIODE		
		D5173	DA2J10100L	DIODE		
		D5178	DZ2J068M0L	DIODE		
		D5179	B0ADCK000001	DIODE		
		D5180	DZ2J033M0L	DIODE		
		D5187	DZ2J047M0L	DIODE		
		D5188	B0ADCK000001	DIODE		
		D5191	B0ADCK000001	DIODE		
		D7101	ERZV10Q621CD	SURGE ABSORBER		
		D7102	B0EBNR000048	DIODE		
		D7104	B0EAKR000022	DIODE		
		D7105	B0EAKR000022	DIODE		
		D7211	B0JAME000091	DIODE		
		D7212	B0JAME000091	DIODE		
		D7216	B0HASR000018	DIODE		
		D7217	B0BC02500002	DIODE		
		D7301	DZ2J039M0L	DIODE		
		D7302	B0HAGQ000001	DIODE		
		D7303	DZ2J039M0L	DIODE		
		D7304	B0HAGQ000001	DIODE		
		D7305	B0ADCK000001	DIODE		
		D7306	B0BC02500002	DIODE		
		D7307	B0BC02500002	DIODE		
		D7308	B0BC02500002	DIODE		
		D7309	B0JAME000091	DIODE		
		D7310	B0JAME000091	DIODE		
		D7311	B0BC02500002	DIODE		
		D7401	B0JBSK000024	DIODE		
		D7402	B0JBSK000024	DIODE		
		D7404	B0ADCK000001	DIODE		
		D7405	DA2J10100L	DIODE		
		D7407	B0JCPE000038	DIODE		
		D7408	B0JDSG000010	DIODE		
		D7409	B0JDSG000010	DIODE		
		D8716	B0ECKM000053	DIODE		
		D8850	DB2J30900L	DIODE		
INTEGRATED CIRCUITS						
		IC3052	C0ABBB000179	IC		
		IC4700	C1AB00003469	IC		
		IC4900	C1AB00003871	IC		
		IC5000	AN34043AAVF	IC		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		IC5300	C0DBZYY00544	IC		
		IC5400	C0DBAYY01299	IC		
		IC5420	C0DBAYY01299	IC		
		IC5440	C0DBAYY01283	IC		
		IC7201	C0DBBY000050	IC		
		IC7301	C0DBAYY01329	IC		
		IC7401	C0DBZYY00531	IC		
		IC7502	C0DBGYY03054	IC		
		IC8000	MN2WS0250B	IC		
		IC8100	C0DBAYY01283	IC		
		IC8101	C0DBAYY01285	IC		
		IC8200	C3ABUY000020	IC		
		IC8201	C3ABUY000020	IC		
		IC8453	C0DBZYY00541	IC		
		IC8454	C0DBZYY00541	IC		
		IC8600	C1CB00003736	IC		
		IC8660	C0DBEYY00102	IC		
		IC8702	C0DBEYY00102	IC		
		IC8706	C0DBGYY01682	IC		
		IC8900	TVRS837	ROM IC (C3FBVY000020)		
		IC8902	C3EBHY000030	IC		
COILS						
		L3102	J0JYC0000156	INDUCTOR		
		L3103	J0JYC0000156	INDUCTOR		
		L3111	J0JYC0000156	INDUCTOR		
		L3112	J0JYC0000156	INDUCTOR		
		L3113	J0JYC0000156	INDUCTOR		
		L3116	J0JYC0000156	INDUCTOR		
		L3119	J0JYC0000156	INDUCTOR		
		L3120	J0JYC0000156	INDUCTOR		
		L4901	G1C150MA0533	INDUCTOR		
		L4902	G1C150MA0533	INDUCTOR		
		L4903	G1C150MA0533	INDUCTOR		
		L4904	G1C150MA0533	INDUCTOR		
		L5300	G1C3R3ZA0248	COIL		
		L5400	G1C4R7ZA0311	INDUCTOR		
		L5420	G1C6R8MA0533	INDUCTOR		
		L5440	G1C3R3ZA0311	COIL		
		L6707	J0JYC0000070	BEAD CORE		
		L6711	J0JHC0000046	EMI FILTER		
		L6721	J0JYC0000156	INDUCTOR		
		L7103	J0JKB0000034	EMI FILTER		
		L7201	J0JKB0000034	EMI FILTER		
		L7202	J0JKB0000034	EMI FILTER		
		L7203	J0JKB0000034	EMI FILTER		
		L7301	J0JKB0000034	EMI FILTER		
		L7401	J0JKB0000034	EMI FILTER		
		L7402	J0JKB0000034	EMI FILTER		
		L7403	EXCELSA39V	BEAD CORE		
		L8001	J0JCC0000287	COIL		
		L8002	J0JYC0000464	BEAD CORE		
		L8003	J0JJC0000021	BEAD CORE		
		L8004	J0JCC0000287	COIL		
		L8005	J0JYC0000464	BEAD CORE		
		L8006	J0JYC0000464	BEAD CORE		
		L8100	G1C1R5ZA0311	COIL		
		L8101	G1C2R2ZA0311	INDUCTOR		
		L8451	J0ZZB0000142	FILTER		
		L8453	J0ZZB0000142	FILTER		
		L8461	J0JHC0000045	COIL		
		L8462	J0JHC0000045	COIL		
		L8660	J0JBC0000115	BEAD CORE		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L8662	J0JHC0000045	COIL		
		L8663	D0GAR00J0005	CHIP RESISTOR		
		L8664	D0GAR00J0005	CHIP RESISTOR		
TRANSISTORS						
		Q2011	B1ABCE000015	TRANSISTOR		
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q3102	B1ABCE000015	TRANSISTOR		
		Q3103	B1ABCE000015	TRANSISTOR		
		Q4700	B1ABCF000231	TRANSISTOR		
		Q4702	B1ABCF000231	TRANSISTOR		
		Q4704	B1ABCF000231	TRANSISTOR		
		Q4709	B1ABCF000231	TRANSISTOR		
		Q4971	B1ABKE000001	TRANSISTOR		
		Q4972	B1ABKE000001	TRANSISTOR		
		Q4981	B1ABCE000015	TRANSISTOR		
		Q5301	B1CFRD000100	TRANSISTOR		
		Q5302	B1CFRD000100	TRANSISTOR		
		Q7201	B1CERR000070	TRANSISTOR		
		Q7202	B1ADCE000022	TRANSISTOR		
		Q7301	B1CFRR000018	TRANSISTOR		
		Q7302	B1CFRR000018	TRANSISTOR		
		Q7303	B1ADCE000022	TRANSISTOR		
		Q7401	B1ABCF000231	TRANSISTOR		
		Q7402	B1CHRE000015	TRANSISTOR		
		Q7403	B1CHRE000015	TRANSISTOR		
RESISTORS						
		R0900	D0GA220JA023	M22 OHM, J.1/16 W		
		R0901	D0GA220JA023	M22 OHM, J.1/16 W		
		R0903	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0904	D0GA473JA023	M 47KOHM, J,1/16W		
		R0905	D0GA101JA023	M 100 OHM, J,1/16W		
		R0906	D0GA101JA023	M 100 OHM, J,1/16W		
		R0907	D0GA101JA023	M 100 OHM, J,1/16W		
		R0910	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0911	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0912	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0913	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0914	D0GA101JA023	M 100 OHM, J,1/16W		
		R0916	D0GA220JA023	M22 OHM, J.1/16 W		
		R0917	D0GA220JA023	M22 OHM, J.1/16 W		
		R0918	D0GA220JA023	M22 OHM, J.1/16 W		
		R0919	D0GA220JA023	M22 OHM, J.1/16 W		
		R0932	D0GA220JA023	M22 OHM, J.1/16 W		
		R0933	D0GA220JA023	M22 OHM, J.1/16 W		
		R0938	D0GA101JA023	M 100 OHM, J,1/16W		
		R0940	D0GA101JA023	M 100 OHM, J,1/16W		
		R0946	D0GA101JA023	M 100 OHM, J,1/16W		
		R0948	D0GA101JA023	M 100 OHM, J,1/16W		
		R0951	D0GA101JA023	M 100 OHM, J,1/16W		
		R0952	D0GA102JA023	M1KOHM, J.1/16 W		
		R0953	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0954	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0955	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0956	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0957	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R1951	D0GA680JA023	M 68 OHM, J,1/16W		
		R1953	D0GA103JA023	M10KOHM, J.1/16 W		
		R2000	D0GA433JA023	M 43KOHM,J,1/16W		
		R2003	D0GAR00J0005	M 0 OHM, 1/16W		
		R2008	D0GA473JA023	M 47KOHM, J,1/16W		
		R2013	D0GA101JA023	M 100 OHM, J,1/16W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R2014	D0GA101JA023	M 100 OHM, J,1/16W		
		R2016	D0GA122JA023	M 1.2KOHM, J,1/16W		
		R2034	D0GAR00J0005	M 0 OHM, 1/16W		
		R2051	D0GA101JA023	M 100 OHM, J,1/16W		
		R2053	D0GA473JA023	M 47KOHM, J,1/16W		
		R2054	D0GA104JA023	M100KOHM, J.1/16 W		
		R2055	D0GA103JA023	M10KOHM, J.1/16 W		
		R2058	D0GA473JA023	M 47KOHM, J,1/16W		
		R2059	D0GA103JA023	M10KOHM, J.1/16 W		
		R2060	D0GA473JA023	M 47KOHM, J,1/16W		
		R2061	D0GA223JA023	M 22K OHM J 1/16W		
		R2066	D0GAR00J0005	M 0 OHM, 1/16W		
		R2800	D1BA6800A023	M 680OHM ,J, 1/16W		
		R2805	D1BA1821A023	M 1.82KOHM ,J, 1/16W		
		R2806	D0GA470JA023	M 47 OHM, J,1/16W		
		R2807	D0GAR00J0005	M 0 OHM, 1/16W		
		R2811	D0GAR00J0005	M 0 OHM, 1/16W		
		R2852	D1BD1911A066	M 1.91KOHM,J.1/8 W		
		R2853	D1BD3091A066	M 3.09KOHM,J.1/8 W		
		R2854	D1BD6041A066	M 6.04KOHM,J.1/8 W		
		R2855	D1BD1692A066	M 16.9KOHM,F.1/8W		
		R3101	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R3102	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R3103	D0GD750JA052	M 75 OHM,J,1/8W		
		R3104	D0GD750JA052	M 75 OHM,J,1/8W		
		R3105	D0GD750JA052	M 75 OHM,J,1/8W		
		R3121	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3123	D1HY2204A012	C 22OHM ,J, 1/16W		
		R3127	D0GA220JA023	M22 OHM, J.1/16 W		
		R3132	D0GB103JA072	M 10K OHM J 1/10W		
		R3141	D0GF750JA048	M 75 OHM. 1/4W		
		R3157	D1HY2204A012	C 22OHM ,J, 1/16W		
		R3163	D0GA104JA023	M100KOHM, J.1/16 W		
		R3164	D0GA104JA023	M100KOHM, J.1/16 W		
		R3167	D0GA333JA023	M 33KOHM,J,1/16W		
		R3168	D0GA333JA023	M 33KOHM,J,1/16W		
		R3171	D0GA101JA023	M 100 OHM, J,1/16W		
		R3172	D0GA101JA023	M 100 OHM, J,1/16W		
		R3173	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3179	D0GA331JA023	M 330 OHM, J,1/16W		
		R3180	D0GA331JA023	M 330 OHM, J,1/16W		
		R3181	D0GD750JA052	M 75 OHM,J,1/8W		
		R3182	D0GD750JA052	M 75 OHM,J,1/8W		
		R3183	D0GD750JA052	M 75 OHM,J,1/8W		
		R3184	D0GA333JA023	M 33KOHM,J,1/16W		
		R3185	D0GA333JA023	M 33KOHM,J,1/16W		
		R3188	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3189	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3193	D0GA220JA023	M22 OHM, J.1/16 W		
		R3201	D0GA101JA023	M 100 OHM, J,1/16W		
		R3231	D0GB103JA072	M 10K OHM J 1/10W		
		R3233	D0GB203ZA038	M 20KOHM 1/10W		
		R3234	D0GB203ZA038	M 20KOHM 1/10W		
		R3237	D0GB473JA072	M 47KOHM J 1/10W		
		R3238	D0GB473JA072	M 47KOHM J 1/10W		
		R3871	D0GAR00J0005	M 0 OHM, 1/16W		
		R3966	D0GA473JA023	M 47KOHM, J,1/16W		
		R4068	D0GAR00J0005	M 0 OHM, 1/16W		
		R4080	D0GAR00J0005	M 0 OHM, 1/16W		
		R4702	D0GA103JA023	M10KOHM, J.1/16 W		
		R4708	D0GA103JA023	M10KOHM, J.1/16 W		
		R4709	D0GA103JA023	M10KOHM, J.1/16 W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4710	D0GA473JA023	M 47KOHM, J,1/16W		
		R4711	D0GA102JA023	M1KOHM, J.1/16 W		
		R4712	D0GA473JA023	M 47KOHM, J,1/16W		
		R4715	D0GA103JA023	M10KOHM, J.1/16 W		
		R4721	D0GA103JA023	M10KOHM, J.1/16 W		
		R4722	D0GA103JA023	M10KOHM, J.1/16 W		
		R4723	D0GA473JA023	M 47KOHM, J,1/16W		
		R4724	D0GA102JA023	M1KOHM, J.1/16 W		
		R4725	D0GA473JA023	M 47KOHM, J,1/16W		
		R4728	D0GA103JA023	M10KOHM, J.1/16 W		
		R4732	D0GA103JA023	M10KOHM, J.1/16 W		
		R4734	D0GA103JA023	M10KOHM, J.1/16 W		
		R4735	D0GA103JA023	M10KOHM, J.1/16 W		
		R4736	D0GA473JA023	M 47KOHM, J,1/16W		
		R4737	D0GA102JA023	M1KOHM, J.1/16 W		
		R4738	D0GA473JA023	M 47KOHM, J,1/16W		
		R4739	D0GA220JA023	M22 OHM, J.1/16 W		
		R4744	D0GA680JA023	M 68 OHM, J,1/16W		
		R4745	D0GA680JA023	M 68 OHM, J,1/16W		
		R4746	D0GA680JA023	M 68 OHM, J,1/16W		
		R4747	D0GA680JA023	M 68 OHM, J,1/16W		
		R4748	D0GA680JA023	M 68 OHM, J,1/16W		
		R4749	D0GA680JA023	M 68 OHM, J,1/16W		
		R4750	D0GA680JA023	M 68 OHM, J,1/16W		
		R4751	D0GA680JA023	M 68 OHM, J,1/16W		
		R4752	D1BA1600A023	M 160 OHM,F.1/16 W		
		R4753	D1BA82R0A014	M 82 OHM,F.1/16 W		
		R4763	D0GA473JA023	M 47KOHM, J,1/16W		
		R4764	D0GA473JA023	M 47KOHM, J,1/16W		
		R4765	D0GA473JA023	M 47KOHM, J,1/16W		
		R4766	D0GA473JA023	M 47KOHM, J,1/16W		
		R4767	D0GA392JA023	M 3.9KOHM, J,1/16W		
		R4770	D0GA473JA023	M 47KOHM, J,1/16W		
		R4771	D0GA152JA023	M 1.5KOHM, J,1/16W		
		R4772	D0GA152JA023	M 1.5KOHM, J,1/16W		
		R4774	D0GA473JA023	M 47KOHM, J,1/16W		
		R4775	D0GA473JA023	M 47KOHM, J,1/16W		
		R4776	D0GA680JA023	M 68 OHM, J,1/16W		
		R4777	D0GA680JA023	M 68 OHM, J,1/16W		
		R4780	D0GA121JA023	M 120 OHM, J,1/16W		
		R4788	D0GA103JA023	M10KOHM, J.1/16 W		
		R4794	D0GA103JA023	M10KOHM, J.1/16 W		
		R4795	D0GA103JA023	M10KOHM, J.1/16 W		
		R4796	D0GA473JA023	M 47KOHM, J,1/16W		
		R4797	D0GA102JA023	M1KOHM, J.1/16 W		
		R4798	D0GA473JA023	M 47KOHM, J,1/16W		
		R4799	D0GA273JA023	M 27K OHM J ,1/16W		
		R4900	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4901	D1HY6804A012	NETWORK RESISTER		
		R4906	D0GA822JA023	M8.2KOHM, J,1/16W		
		R4907	D0GA102JA023	M1KOHM, J.1/16 W		
		R4908	D0GA102JA023	M1KOHM, J.1/16 W		
		R4913	D0GAR00J0005	M 0 OHM, 1/16W		
		R4914	D0GAR00J0005	M 0 OHM, 1/16W		
		R4955	D0GA103JA023	M10KOHM, J.1/16 W		
		R4956	D0GA102JA023	M1KOHM, J.1/16 W		
		R4973	D0GA103JA023	M10KOHM, J.1/16 W		
		R4974	D0GA103JA023	M10KOHM, J.1/16 W		
		R4975	D0GF122JA048	M 1.2KOHM, J,1/10W		
		R4976	D0GA101JA023	M 100 OHM, J,1/16W		
		R4977	D0GA101JA023	M 100 OHM, J,1/16W		
		R4980	D0GB332JA072	M 3.3KOHM,J,1/10W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4981	D0GA103JA023	M10KOHM, J.1/16 W		
		R4982	D0GA473JA023	M 47KOHM, J,1/16W		
		R5002	D0GA683JA023	M 68KOHM, J,1/16W		
		R5003	D0GA103JA023	M10KOHM, J.1/16 W		
		R5006	D0GA223JA023	M 22K OHM J 1/16W		
		R5007	D0GA223JA023	M 22K OHM J 1/16W		
		R5009	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R5012	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5030	D0GA103JA023	M10KOHM, J.1/16 W		
		R5100	D0GA101JA023	M 100 OHM, J,1/16W		
		R5101	D0GA473JA023	M 47KOHM, J,1/16W		
		R5102	D0GA473JA023	M 47KOHM, J,1/16W		
		R5104	D0GA103JA023	M10KOHM, J.1/16 W		
		R5152	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R5175	D0GA680JA023	M 68 OHM, J,1/16W		
		R5181	D0GA103JA023	M10KOHM, J.1/16 W		
		R5302	D1BB1962A055	M 19.6KOHM,J.1/10W		
		R5303	D0GB102ZA038	M 1KOHM,J,1/10W		
		R5304	D0GA473JA023	M 47KOHM, J,1/16W		
		R5306	D0GA302JA023	M 3K OHM J ,1/16W		
		R5307	D0GA132JA023	M 1.3KOHM, J,0.063W		
		R5308	D0GA392JA023	M 3.9KOHM, J,1/16W		
		R5309	D0GA104JA023	M100KOHM, J.1/16 W		
		R5310	D0GAR00J0005	M 0 OHM, 1/16W		
		R5311	D0GA104JA023	M100KOHM, J.1/16 W		
		R5400	D0GAR00J0005	M 0 OHM, 1/16W		
		R5401	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5402	D0GB911ZA037	M 910 OHM,1/10W		
		R5403	D1BB2871A106	M 2.87 KOHM,F.1/10 W		
		R5420	D0GAR00J0005	M 0 OHM, 1/16W		
		R5421	D1BA3302A023	M 33KOHM,F. 1/16 W		
		R5422	D0GB911ZA037	M 910 OHM,1/10W		
		R5423	D1BB4871A106	M 4.87 KOHM,F.1/10 W		
		R5441	D0GAR00J0005	M 0 OHM, 1/16W		
		R5442	D1BB1301A195	M 1.3KOHM,J.1/10W		
		R5443	D1BB7501A195	M 7.5 KOHM,F.1/10 W		
		R6726	D0GA681JA023	M680 OHM, J,1/16W		
		R6727	D0GA681JA023	M680 OHM, J,1/16W		
		R6731	D0GA103JA023	M10KOHM, J.1/16 W		
		R6732	D0GA103JA023	M10KOHM, J.1/16 W		
		R7101	D0GF105JA048	M 1M OHM. 1/4W		
		R7102	D0GF105JA048	M 1M OHM. 1/4W		
		R7103	D0GF105JA048	M 1M OHM. 1/4W		
		R7104	D0B1106JA033	M 10MOHM J 1W		
	⚠	R7201	ERX1SJR22	M0.22 OHM, J, 1W		
	⚠	R7202	ERX1SJR22	M0.22 OHM, J, 1W		
		R7203	D0GD104JA052	M 100KOHM,J,1/8W		
		R7204	D0GD101JA059	M 100 OHM,J,1/4W		
		R7205	D0GD101JA052	M 100 OHM,J,1/8W		
		R7206	D0GD220JA059	M 22 OHM,J,1/4W		
		R7207	D0GD104JA052	M 100KOHM,J,1/8W		
		R7208	ERX1SJR22	M0.22 OHM, J, 1W		
		R7212	D0GD103JA052	M 10KOHM,J,1/8W		
		R7219	D0GD513JA052	M 51KOHM,J,1/8W		
		R7220	D0GD223JA052	M 22KOHM,J,1/8W		
		R7224	D1BD8203A066	M 820KOHM,F.1/8W		
		R7225	ERJ8ENF1504	M 150KOHM, 1/8W		
		R7226	ERJ8ENF1504	M 150KOHM, 1/8W		
		R7227	ERJ8ENF1504	M 150KOHM, 1/8W		
		R7228	ERJ8ENF1504	M 150KOHM, 1/8W		
		R7229	D1BD2003A066	M 200KOHM.F.1/8W		
		R7230	D1BD4422A066	M 44.2KOHM, F.1/8W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7231	D1BD4303A066	M 430KOHM,F.1/8W		
		R7232	D1BD3603A066	M 360KOHM,F.1/8W		
		R7234	D1BD8203A066	M 820KOHM,F.1/8W		
		R7302	D0GD101JA059	M 100 OHM,J,1/4W		
		R7303	D0GD101JA059	M 100 OHM,J,1/4W		
		R7304	D0AF2R2JA112	C 2.2 OHM, J,1/2W		
		R7305	D0AF151JA112	C 150 OHM, J,1/2W		
		R7306	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7307	D0GD561JA052	M 560 OHM,J,1/8W		
		R7308	D0GD561JA052	M 560 OHM,J,1/8W		
		R7312	D0AF222JA112	C 2.2KOHM, J,1/2W		
		R7314	D0GD183JA052	M 18KOHM,J,1/8W		
		R7315	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7317	D0GD223JA052	M 22KOHM,J,1/8W		
		R7318	D0GD473JA052	M 47KOHM,J,1/8W		
		R7319	D0GD473JA052	M 47KOHM,J,1/8W		
		R7320	D0GD473JA052	M 47KOHM,J,1/8W		
		R7321	D0GD100JA059	M 10 OHM,J,1/4W		
		R7322	D0GD100JA059	M 10 OHM,J,1/4W		
		R7323	D0GD223JA052	M 22KOHM,J,1/8W		
		R7324	D0GD223JA052	M 22KOHM,J,1/8W		
		R7401	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7402	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7403	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7404	D0GD103JA052	M 10KOHM,J,1/8W		
		R7405	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7406	D1BD3321A066	M 3.32KOHM,F.1/8W		
		R7407	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7408	D1BD1822A066	M 18.2KOHM,F.1/8W		
		R7409	D0GD473JA052	M 47KOHM,J,1/8W		
		R7410	D0GD153JA052	M 15KOHM,J,1/8W		
		R7411	D0GD104JA052	M 100KOHM,J,1/8W		
		R7412	D0GD153JA052	M 15KOHM,J,1/8W		
		R7416	D0GD103JA052	M 10KOHM,J,1/8W		
		R7417	D0GD103JA052	M 10KOHM,J,1/8W		
		R7420	D0GD473JA052	M 47KOHM,J,1/8W		
		R7421	D0GD224JA052	M 220KOHM,J,1/8W		
		R8008	D0GA331JA023	M 330 OHM, J,1/16W		
		R8009	D0GA1R1JA023	M 1.1OHM, J,1/16W		
		R8100	D1BB2001A197	M 2 KOHM,F.1/10 W		
		R8101	D1BB1051A087	M 1.05 KOHM,F.1/10 W		
		R8111	D1BB2001A197	M 2 KOHM,F.1/10 W		
		R8112	D1BB1961A087	M 1.96 KOHM,F.1/10 W		
		R8200	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8203	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8204	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8205	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8206	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8207	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8208	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8217	D0GA221JA023	M220 OHM, J.1/16 W		
		R8218	D0GA221JA023	M220 OHM, J.1/16 W		
		R8219	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8220	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8221	D0GA103JA023	M10KOHM, J.1/16 W		
		R8230	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8231	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8232	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8233	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8234	D0GA470JA023	M 47 OHM, J,1/16W		
		R8235	D0GA470JA023	M 47 OHM, J,1/16W		
		R8236	D0GA470JA023	M 47 OHM, J,1/16W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8237	D0GA470JA023	M 47 OHM, J,1/16W		
		R8238	D0GA220JA023	M22 OHM, J.1/16 W		
		R8240	D1HY2208A012	NETWORK RESISTER		
		R8241	D1HY2204A012	NETWORK RESISTER		
		R8242	D1HY2204A012	NETWORK RESISTER		
		R8243	D1HY2204A012	NETWORK RESISTER		
		R8300	D0GA471JA023	M 470OHM, J,1/16W		
		R8301	D1BA6201A023	M 6.2 KOHM,F.1/16 W		
		R8302	D0GA360JA023	M 36 OHM, J,1/16W		
		R8303	D0GA360JA023	M 36 OHM, J,1/16W		
		R8304	D0GA360JA023	M 36 OHM, J,1/16W		
		R8305	D0GA360JA023	M 36 OHM, J,1/16W		
		R8418	D0GA103JA023	M10KOHM, J.1/16 W		
		R8441	D0GA103JA023	M10KOHM, J.1/16 W		
		R8450	D0GA103JA023	M10KOHM, J.1/16 W		
		R8451	D0GA103JA023	M10KOHM, J.1/16 W		
		R8454	D0GA103JA023	M10KOHM, J.1/16 W		
		R8455	D0GA103JA023	M10KOHM, J.1/16 W		
		R8457	D1BA1822A014	M 18.2KOHM,F.1/16 W		
		R8458	D1BA3742A014	M 37.4KOHM,F. 1/16 W		
		R8469	D0GA103JA023	M10KOHM, J.1/16 W		
		R8470	D0GA103JA023	M10KOHM, J.1/16 W		
		R8601	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8602	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8603	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8604	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8611	D1BA2491A023	M 2.49KOHM,F,1/16W		
		R8612	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8613	D0GA680JA023	M 68 OHM, J,1/16W		
		R8614	D0GA680JA023	M 68 OHM, J,1/16W		
		R8616	D0GA680JA023	M 68 OHM, J,1/16W		
		R8617	D0GA680JA023	M 68 OHM, J,1/16W		
		R8620	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8622	D0GA680JA023	M 68 OHM, J,1/16W		
		R8623	D0GA680JA023	M 68 OHM, J,1/16W		
		R8624	D0GA680JA023	M 68 OHM, J,1/16W		
		R8625	D0GA152JA023	M 1.5KOHM, J,1/16W		
		R8626	D0GA680JA023	M 68 OHM, J,1/16W		
		R8627	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8629	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8630	D0GA680JA023	M 68 OHM, J,1/16W		
		R8631	D0GA680JA023	M 68 OHM, J,1/16W		
		R8634	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8635	D0GA680JA023	M 68 OHM, J,1/16W		
		R8636	D0GA680JA023	M 68 OHM, J,1/16W		
		R8660	D0GA560JA023	M 56 OHM, J,1/16W		
		R8661	D0GA560JA023	M 56 OHM, J,1/16W		
		R8662	D0GA560JA023	M 56 OHM, J,1/16W		
		R8663	D0GA560JA023	M 56 OHM, J,1/16W		
		R8664	D0GA560JA023	M 56 OHM, J,1/16W		
		R8665	D0GA560JA023	M 56 OHM, J,1/16W		
		R8666	D1HY1038A012	NETWORK RESISTER		
		R8667	D1HY5604A012	NETWORK RESISTER		
		R8668	D1HY5604A012	NETWORK RESISTER		
		R8669	D0GA220JA023	M22 OHM, J.1/16 W		
		R8673	D1BB1200A055	M 120 OHM,J.1/10W		
		R8674	D1BB2000A055	M 200 OHM,J.1/10W		
		R8755	D0GA104JA023	M100KOHM, J.1/16 W		
		R8797	D1BA1200A023	M 120 OHM,F.1/16 W		
		R8798	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R8800	D0GA103JA023	M10KOHM, J.1/16 W		
		R8801	D0GA103JA023	M10KOHM, J.1/16 W		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8802	D0GA103JA023	M10KOHM, J.1/16 W		
		R8803	D0GA103JA023	M10KOHM, J.1/16 W		
		R8817	D0GA103JA023	M10KOHM, J.1/16 W		
		R8821	D0GA103JA023	M10KOHM, J.1/16 W		
		R8829	D0GA103JA023	M10KOHM, J.1/16 W		
		R8850	D0GA331JA023	M 330 OHM, J,1/16W		
		R8851	D1BB7151A106	M 7.15 KOHM,F.1/10 W		
		R8852	D0GA102JA023	M1KOHM, J.1/16 W		
		R8853	D0GA182JA023	M 1.8KOHM, J,0.063W		
		R8854	D0GA102JA023	M1KOHM, J.1/16 W		
		R8858	D0GA473JA023	M 47KOHM, J,1/16W		
		R8859	D0GA473JA023	M 47KOHM, J,1/16W		
		R8870	D0GA473JA023	M 47KOHM, J,1/16W		
		R8871	D0GA473JA023	M 47KOHM, J,1/16W		
		R8872	D0GA473JA023	M 47KOHM, J,1/16W		
		R8873	D0GA473JA023	M 47KOHM, J,1/16W		
		R8874	D0GA473JA023	M 47KOHM, J,1/16W		
		R8875	D0GA473JA023	M 47KOHM, J,1/16W		
		R8876	D0GA473JA023	M 47KOHM, J,1/16W		
		R8877	D0GA473JA023	M 47KOHM, J,1/16W		
		R8878	D0GA103JA023	M10KOHM, J.1/16 W		
		R8880	D0GA103JA023	M10KOHM, J.1/16 W		
		R8881	D0GA103JA023	M10KOHM, J.1/16 W		
		R8882	D0GA103JA023	M10KOHM, J.1/16 W		
		R8883	D0GA103JA023	M10KOHM, J.1/16 W		
		R8885	D0GA473JA023	M 47KOHM, J,1/16W		
		R8887	D0GA473JA023	M 47KOHM, J,1/16W		
		R8902	D0GA473JA023	M 47KOHM, J,1/16W		
		R8904	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8909	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R8910	D0GA103JA023	M10KOHM, J.1/16 W		
		R8911	EXB2HV121JV	120OHM ,J, 1/16W		
		R9902	D0GA101JA023	M 100 OHM, J,1/16W		
		R9903	D0GAR00J0005	M 0 OHM, 1/16W		
		R9905	D0GAR00J0005	M 0 OHM, 1/16W		
TRANSFORMERS						
		T7201	G4DYA0000366	TRANSFORMER		
		T7301	G4DYA0000372	TRANSFORMER		
		T8600	G5BYC0000040	TRANSFORMER		
OTHERS						
		A02	K1KY16BA0394	CONNECTOR		
		A10	K1KA14B00129	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A18	K1MY51BA0526	CONNECTOR		
		CF7101	D4CA94R0A001	TERMISTOR		
		CF7102	D4CA94R0A001	TERMISTOR		
		CN0100	K1KA14A00248	CONNECTOR		
		CN8660	K1NA12E00016	CONNECTOR		
		D2800A	B3AGB0000060	LED		
		F7101	K5E502YY0001	FUSE		
		FL4000	J0ZZB0000147	COIL		
		FL4001	J0ZZB0000147	COIL		
		FL4002	J0ZZB0000147	COIL		
		FL4003	J0ZZB0000147	COIL		
		FL4004	J0ZZB0000147	COIL		
		FL4005	J0ZZB0000147	COIL		
		GK4	K1KA03BA0061	CONNECTOR		
		J218	D0AF2R2JA161	RESISTOR		
		JK3001	K2HE2YYB0001	AV TERMINAL		
		JK3005	K1FY315B0002	AV TERMINAL		
		JK3008	K2HE2YYB0002	AV TERMINAL		
		JK3051	K2HC1YYB0079	AV TERMINAL		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		JK4700A	K1FY119E0050	AV TERMINAL		
		JK4701	K1FY119E0049	CONNECTOR		
		JK4702	K1FY119E0049	CONNECTOR		
		JK4703A	K1FY119E0050	AV TERMINAL		
		JK7101	K2AAYB000009	AV TERMINAL		
		JK8450	K1FY104B0081	AV TERMINAL		
		JK8451	K1FY104B0081	AV TERMINAL		
		JK8600	K2LC1YYE0003	AV TERMINAL		
		JS0053	D0GAR00J0005	CHIP RESISTOR		
		JS0059	D0GAR00J0005	CHIP RESISTOR		
		K10	K1KA07A00292	CONNECTOR		
		LF7103	G0B153G00003	LINE FILTER		
		LF7104	G0B153G00003	LINE FILTER		
		LF7105	G0B350HA0036	LINE FILTER		
		P2	K1KY15BA0386	CONNECTOR		
		P4	K1KA12BA0062	CONNECTOR		
		PA7401	K5H502YA0063	FUSE		
		PA7402	K5H502YA0063	FUSE		
		PA7406	K5H502200003	FUSE		
		PC7301	B3PAA0000629	PHOTO COUPLER		
		PC7302	B3PAA0000629	PHOTO COUPLER		
		PC7303	B3PAA0000629	PHOTO COUPLER		
		RM2800	PNJ4815M01TV	REMOCON SENSOR		
		SN2800	B3JB00000116	PHOTO DETECTOR		
		SW2851	EVQ11G05R	SWITCH		
		SW2852	EVQ11G05R	SWITCH		
		SW2853	EVQ11G05R	SWITCH		
		SW2854	EVQ11G05R	SWITCH		
		SW2855	EVQ11G05R	SWITCH		
		SW2857	EVQ11G05R	SWITCH		
		TU6705	ENVS9302D5F	TUNER		
		X8300	H0J245500110	CRYSTAL RESONATOR		
		X8600	H0J250500120	CRYSTAL OSCILLATOR		
		ZA0050	K4AD01D00008	TERMINAL		
		ZA0051	K4AD01D00008	TERMINAL		
		ZA0052	K4AD01D00008	TERMINAL		
		ZA7101	K4AD01A00003	TERMINAL		
		ZA7103	K4AD01A00003	TERMINAL		

Model No. : TH-L47E5R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K2CQ2YY00109	AC CORD		
			K2KYYYY00204	AV CABLE COMPONENT		
			K2KYYYY00205	AV CBVS CABLE		
		2	L0EYAA000018	SPEAKER		
			L0EYAA000019	SPEAKER		
		3	L5EDDY00361	LCD PANEL		
		4	N2QAYB000585	REMOTE TRANSFORMER		
		5	TBL5ZX03661	PEDESTAL ASSY		
		6	TBL5ZX03771	STAND ACC ASSY		
			TBM4GC8381A	MODEL NAME PLATE		
		7	TBX5ZA00601	KEY BUTTON		
			TKKL5521	M6 CAP		
		8	TKP5ZA13801A	BOTTOM COVER		
		9	TKX5ZA02501	SPEAKER BRACKET		
		10	TPD4GA03451	TOP CUSHION		
		11	TPD4GA03461	BOTTOM CUSHION		
		12	TPD4GA03471	TOP CENTER CUSHION		
		13	TPD4GA03481A	BOTTOM CENTER CUSHION		
		14	TPE4GH073	SET COVER		
		15	TQZ4GB555	FAN BAG ASSY		
			TSCFF0030024	LVDS FFC		
		16	TTU4GA0732	BACK COVER ASSY		
		17	TTY4GA0263	CABINET ASSY		
		18	TXFKK5Z0004	LED PANEL ASSY		
		19	TXFKK5Z0006	LED BRACKET ASSY		
		20	TXFPC01RGURB	PACKING CASE ASSY		
		21	XSS5+16FJK	SCREW		
			XYN4+F25FJK	SCREW		
Electrical Replacement Part List						
		RTL	TXN/K1PWUA	K PRINT		
		RTL	TZRNP11PWUA	P PRINT		
		RTL	TZRNP12PWUA	GK PRINT		
		RTL	TZT/A10RGUR	A PRINT		