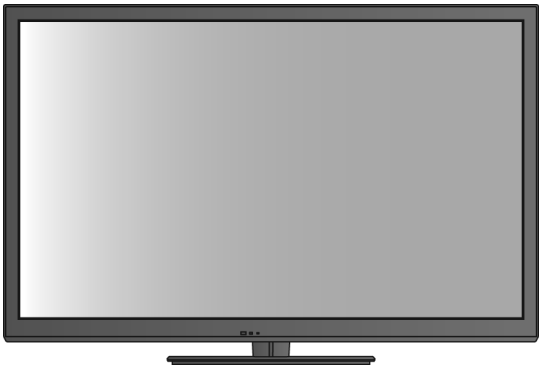
ORDER NO. MTV1204059CE

Service Manual

LED TV



Model No. TH-L47ET5M

Chassis: LA35

Destination: MIDDLE EAST

⚠ 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.

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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 0.15μF 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.

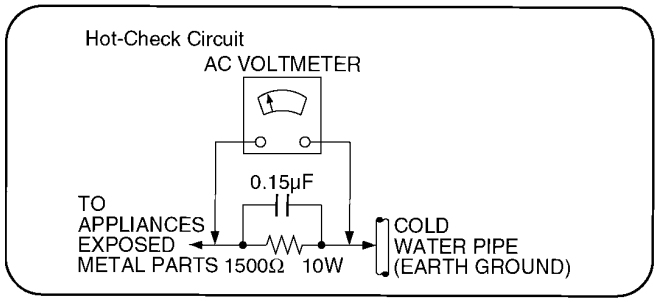


Figure 1

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)

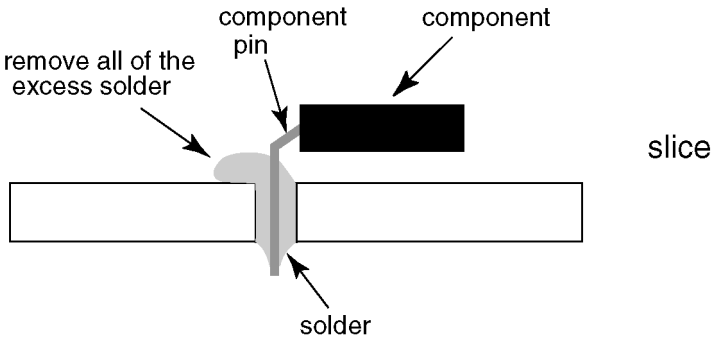
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although 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.

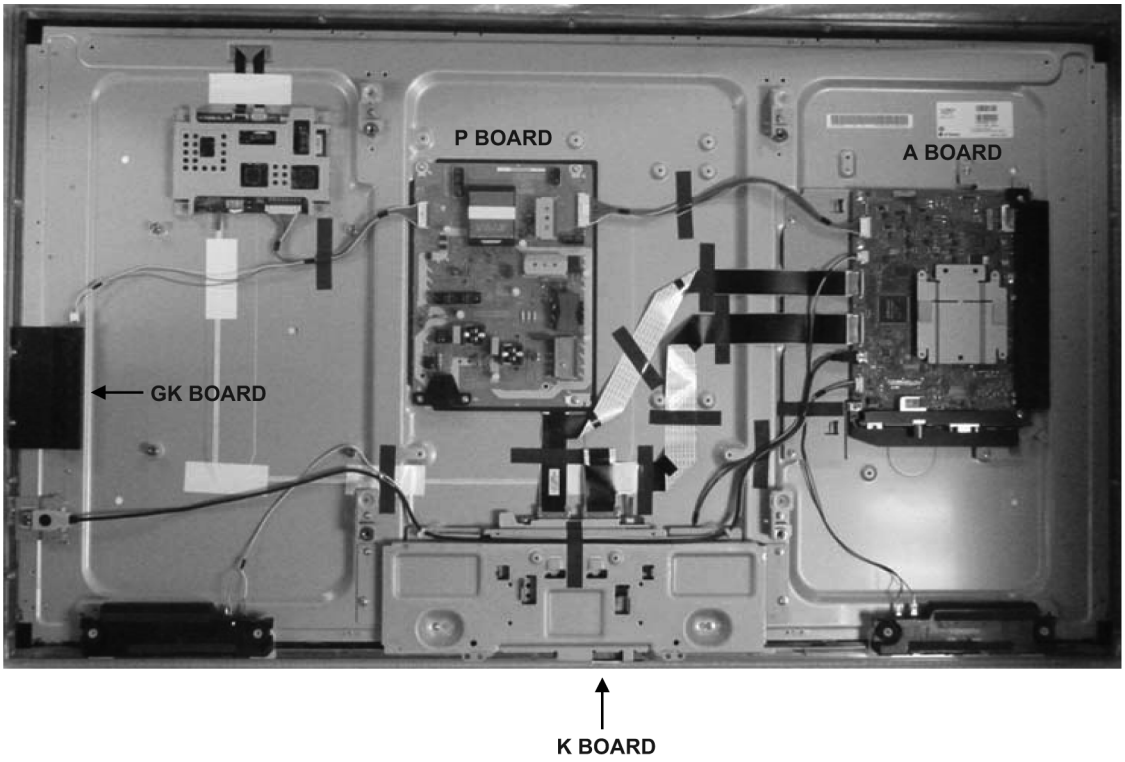
Caution

- 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 110 - 240 V, 50 / 60 Hz	
Power Consumption		
Power Rating	137W	
Standby Condition	0.2 W	
Display panel		
Panel system	IPS LED backlight Liquid Crystal Display	
Visible screen size (diagonal)	119 cm / 47 inches	
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	20.5 kg Net (With Pedestal)	
	17.0 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	Reception of broadcast transmission and playback from video cassette tape recorders.
	2 PAL I	
	3 PAL D, K	
	4 SECAM B, G	
	5 SECAM D, K	
	6 SECAM K1	
	7 NTSC M (NTSC 3.58 / 4.5MHz)	
	8 NTSC 4.43 / 5.5 MHz	Playback from special VCR's or DVD.
	9 NTSC 4.43 / 6.0 MHz	
	10 NTSC 4.43 / 6.5 MHz	
	11 NTSC 3.58 / 5.5 MHz	
	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		
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 • This TV supports 'HDAVI Control 5' function.		
PC		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) • Applicable input signals: VGA, SVGA, WVGA, XGA, SXGA, WXGA		
Card Slot		SD Card slot × 1		
ETHERNET		10BASE-T / 100BASE-TX		
USB 1 / 2 / 3		USB 2.0 TYPE A Connectors	DC 5 V, Max. 500 mA	
DIGITAL AUDIO OUT		PCM / Dolby Digital / DTS, Fibre optic		
Built-in wireless LAN				
Standard compliance and Frequency range*		IEEE802.11a/n 5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz IEEE802.11b/g/n 2.40 GHz - 2.4835 GHz		
Security		WPA2-PSK (TKIP/AES)	WPA-PSK (TKIP/AES)	WEP (64 bit/128 bit)

* The frequency and channel differ depending on the country.

3D Eyewear	
Dimensions (W × H × D)	149.0 mm × 44.0 mm × 171.0 mm
Mass	Approx. 18 g
Lens type	Circularly-polarised filter
Usage temperature range	0 °C - 40 °C
Materials	Main body: Resin Lens section: Resin

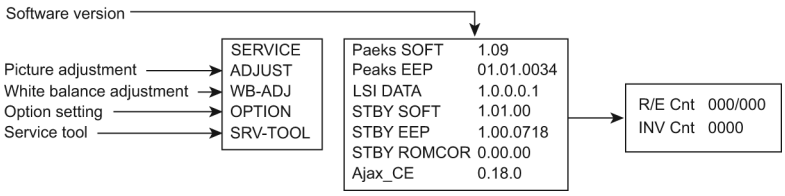
Note

• 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

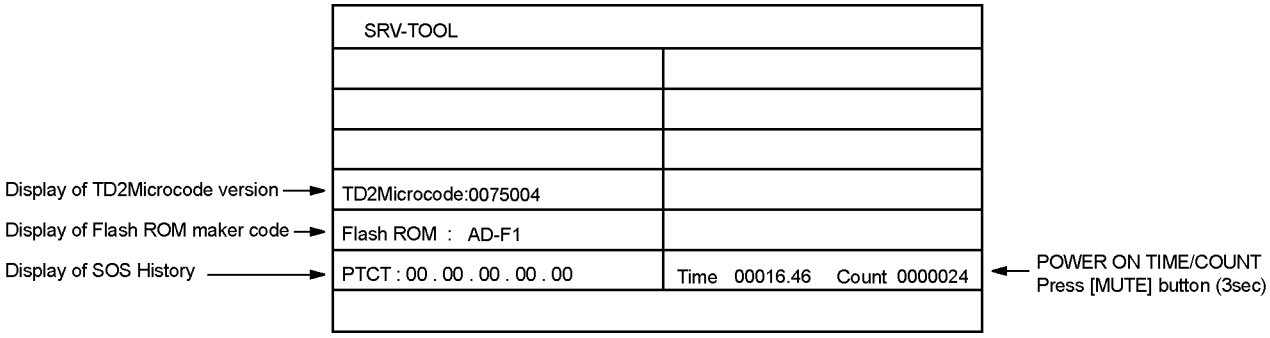
5.1.2. How to exit

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.



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.

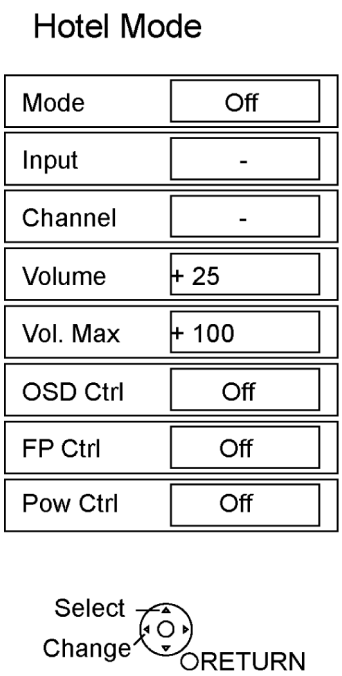
5.2.6. Hotel Mode Adjustment

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.



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.

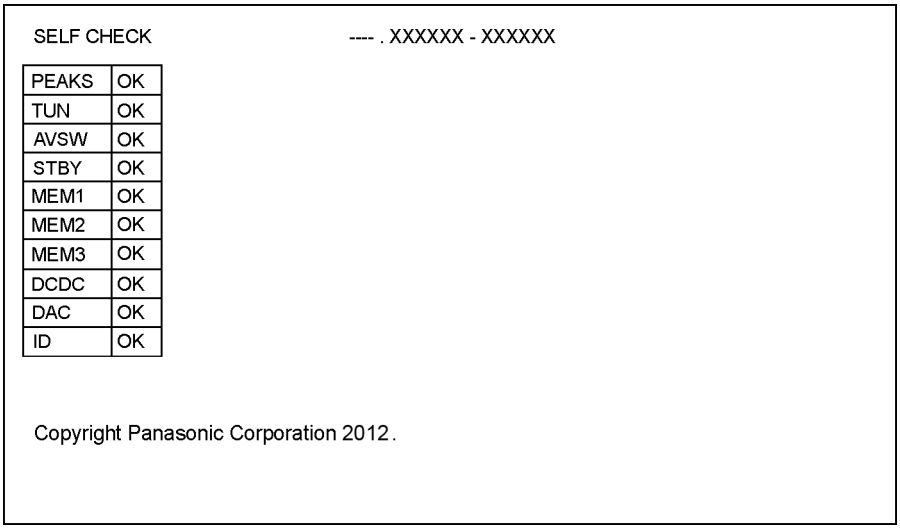
Self-check indication and forced to factory shipment setting:

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



6.2. Power LED Blinking timing chart

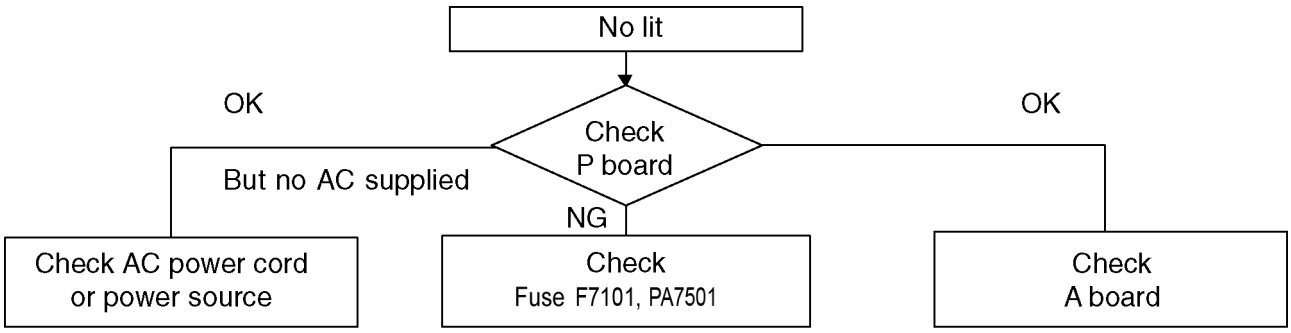
1. Subject
   Information of LED Flashing timing chart.
2. Contents
   When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the 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.

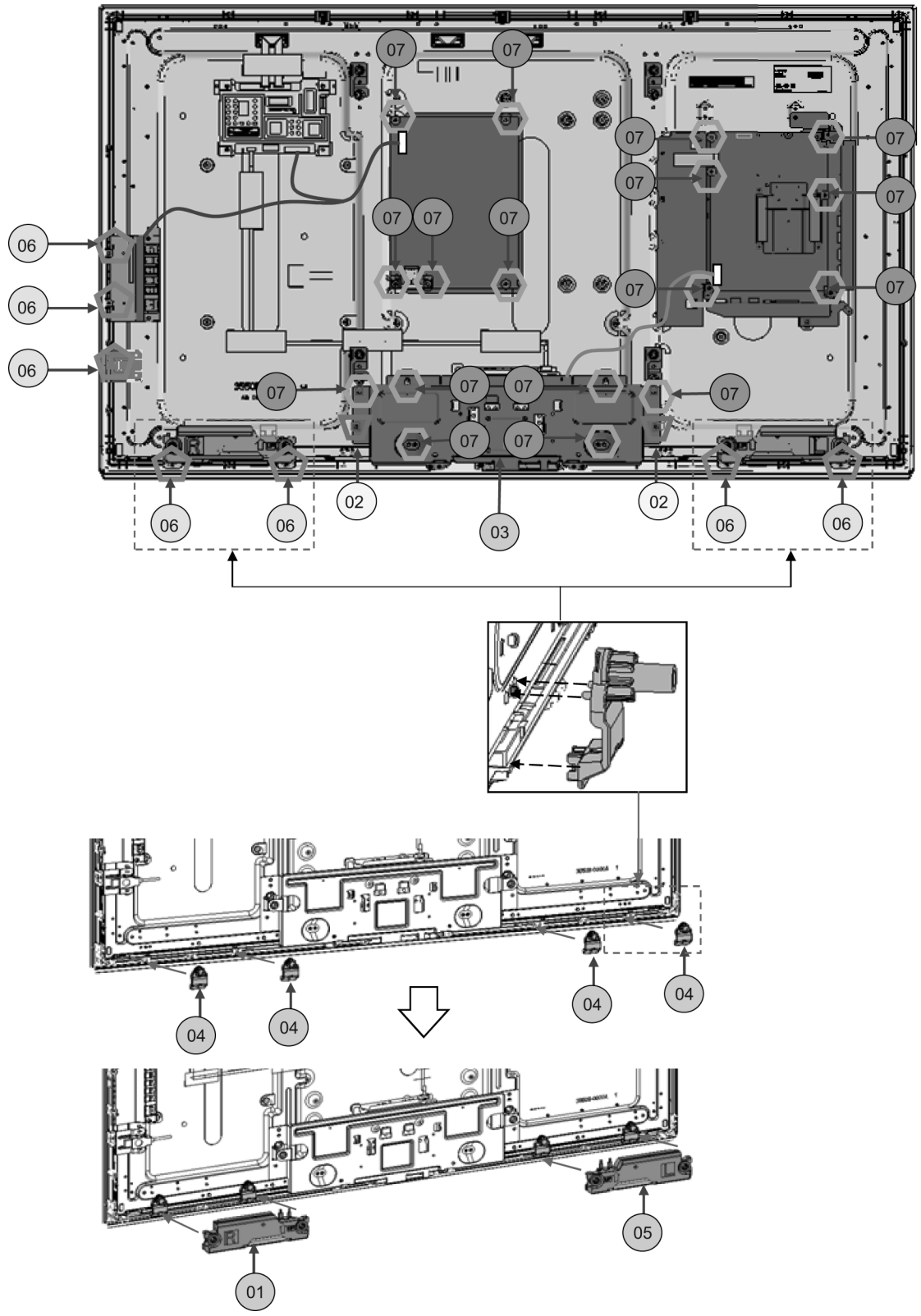
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Speaker & Screw Fixing

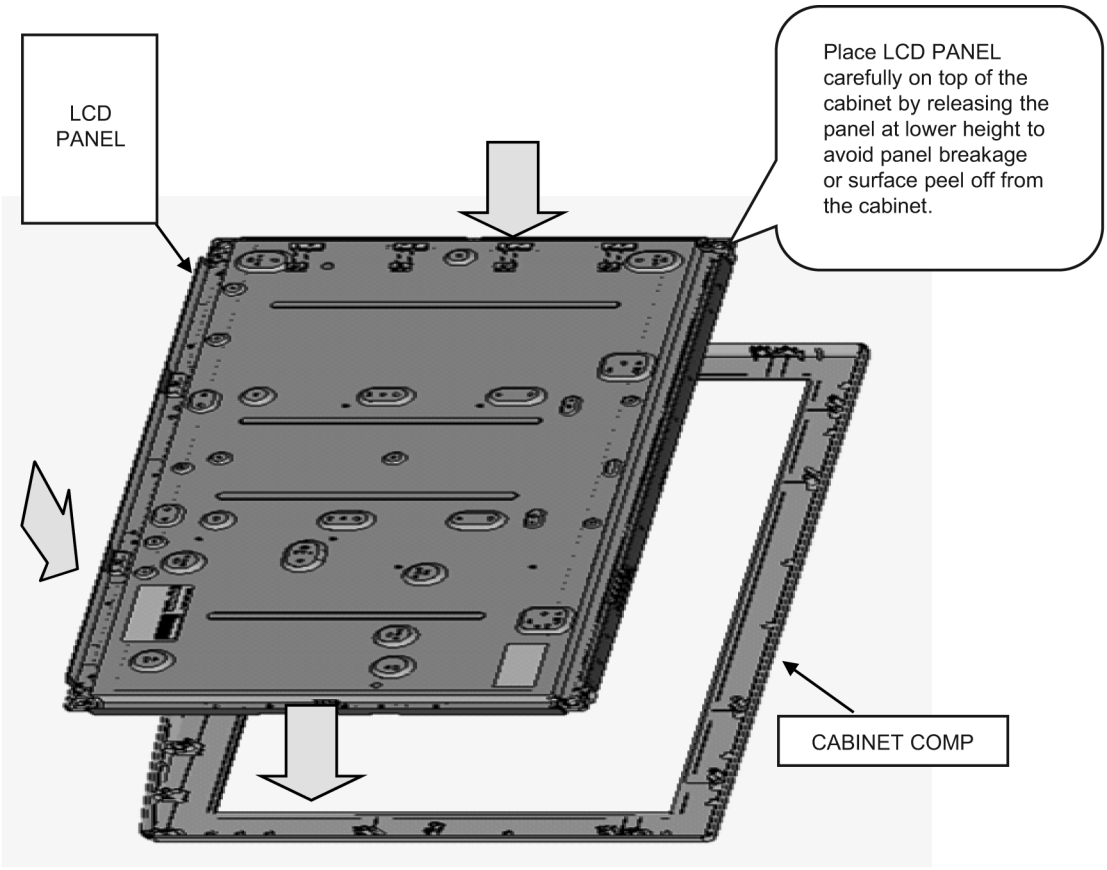
1. Fix Metal bracket bottom.
2. Fix speaker bracket into cabinet and screw.
3. Fix speaker unit L & R into speaker bracket.
4. Fix Screw at pcb,control bracket and speaker bracket.

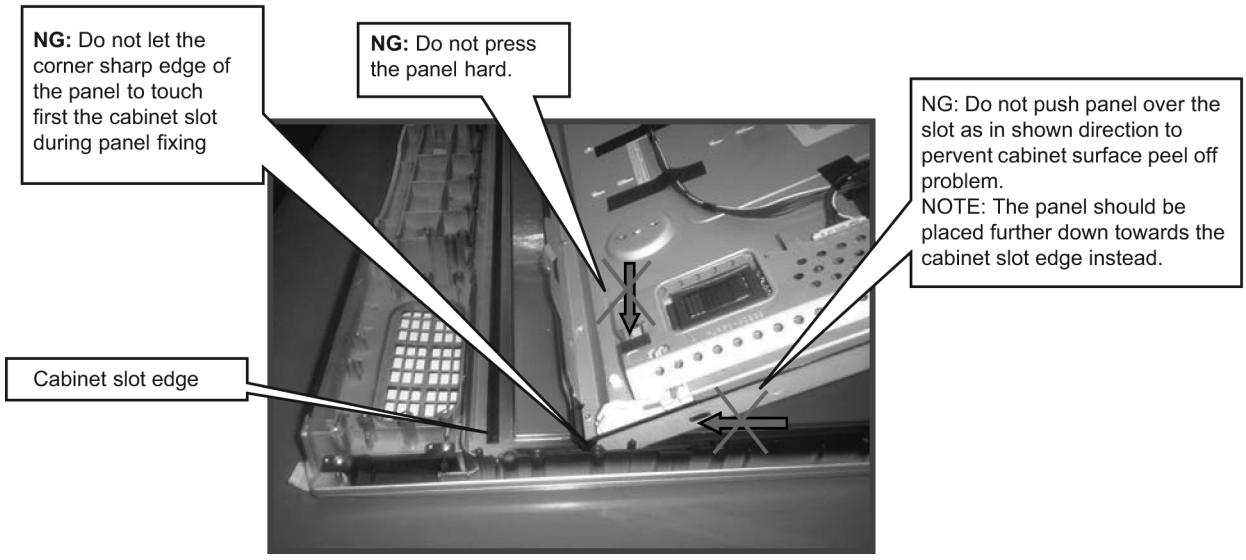


No	Qty	UOM	Description	Remarks
01	1	PC	SPEAKER UNIT R	
02	2	PC	SCREW (BTM METAL2)	6 ± 1 Kgf.cm
03	1	PC	METAL BRACKET BOTTOM	
04	4	PC	SP BRACKET	
05	1	PC	SPEAKER UNIT L	
06	7	PC	SCERW (SP BKT4/KEY2/WIFI 1)	6 ± 1 Kgf.cm
07	17	PC	SCREW (BTM6/VESA4/A10/P5)	6 ± 1 Kgf.cm

7.2. LCD Panel Fixing & Handling Method

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



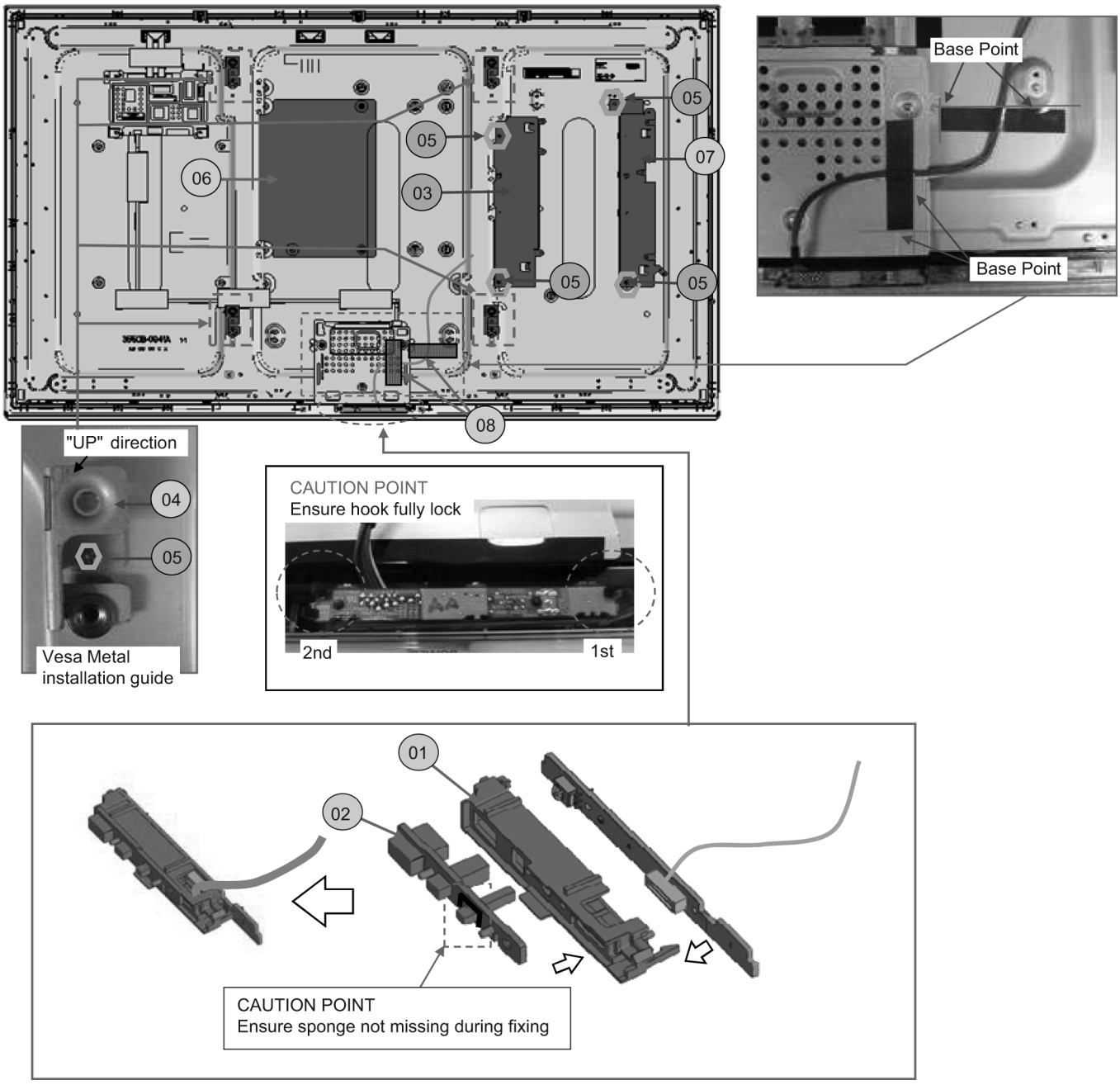


Other general precautions

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, thiner or other voiltile 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.

7.3. LED Panel Preparation & Metal Fixing

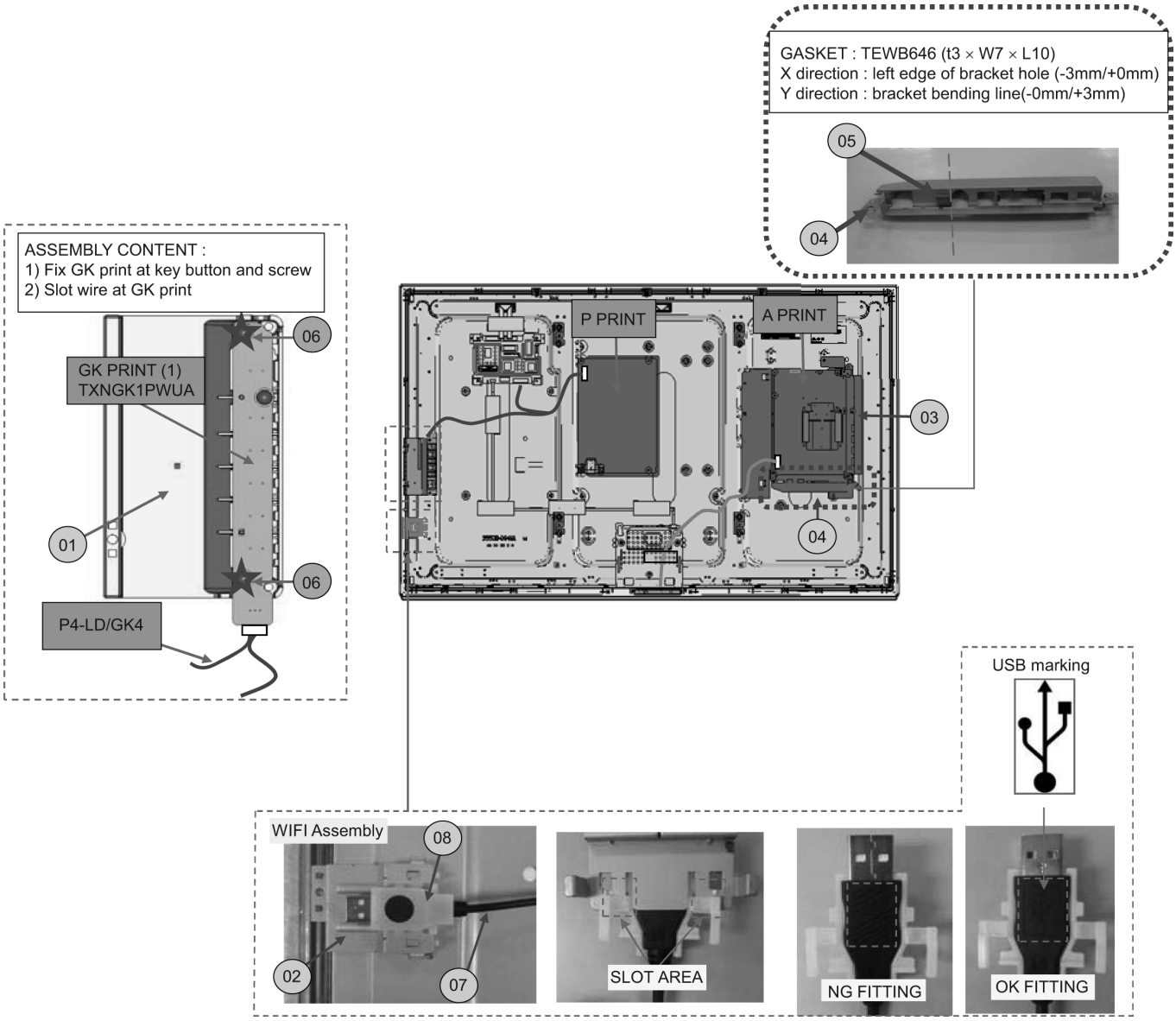
1. Fix wire into K- Print.
2. Fix K-print to LED panel.
3. Insert LED panel assembly at cabinet.
4. Stick tape at panel.
5. Stick barrier P-PCB at panel.
6. Fix ch frame L & R and vesa metal in to panel and screw.



No	Qty	UOM	Description	Remarks
01	1	PC	PANEL-L47ET5-LED-U	
02	1	PC	LED PANEL ASSY	
03	1	PC	METAL_CH_FRAME_L	
04	4	PC	VESA METAL	
05	8	PC	SCREW(BTM6/VESA4/A10/P5)	6 ± 1 Kgf.cm
06	1	PC	BARRIER_P_PCB	
07	1	PC	METAL_CH_FRAME_R	
08	1	PC	PET TAPE (0.07X11)	70 mm × 2 pcs

7.4. PCB Fixing & Key Button Assembly

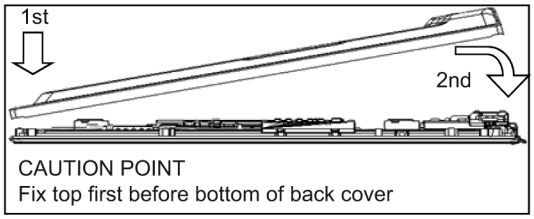
1. Fix P print and A print.
2. Fix key button assembly at panel.
3. Fix metal av bracket side and bottom at A print.
4. Insert wire connector.
5. Insert Wifi metal at cabinet.

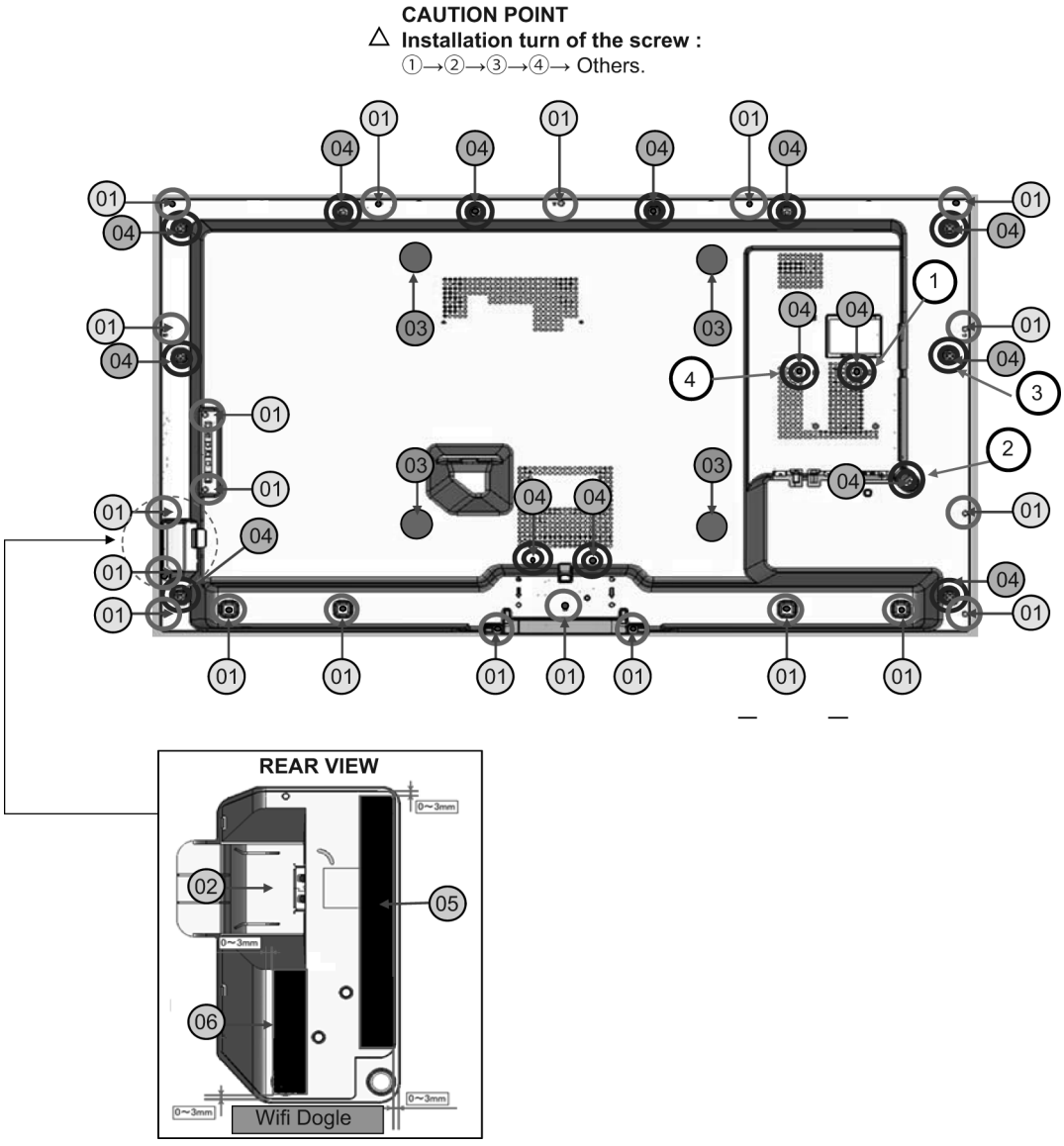


No	Qty	UOM	Description	Remarks
01	1	PC	KEY_BUTTON	
02	1	PC	WIFI_METAL	
03	1	PC	METAL_AV_BRACKET_SIDE	
04	1	PC	METAL_AV_BRACKET_BTM	
05	1	PC	GASKET (t3 x W7 x L10)	
06	2	PC	SCREW (KEY BUTTON 2)	6 ± 1 Kgf.cm
07	1	PC	WIFI DONGLE CABLE	
08	1	PC	USB_CABLE_BRACKET	

7.5. Back Cover - Barrier & Screw

1. Fix back cover to cabinet.
2. Stick felt at Wifi dongle and fix wifi dongle at back cover.
3. Fix screw at back cover.
4. Fix M6 cap at back cover.





	No	Qty	UOM	Description	Remarks
○	01	21	PC	SCREW(BC18/BTM_COVER2/WIFI1)	10 ± 2 Kgf.cm
	02	1	PC	WIFI DONGLE	
●	03	4	PC	M6_CAP	

04	15	PC	SCREW(BC15)	6 ± 1 Kgf.cm
05	1	PC	FELT FOR WiFi DONGLE (0.35 x 10 x 75)	
06	1	PC	FELT FOR WiFi DONGLE (0.35 x 10 x 35)	

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.

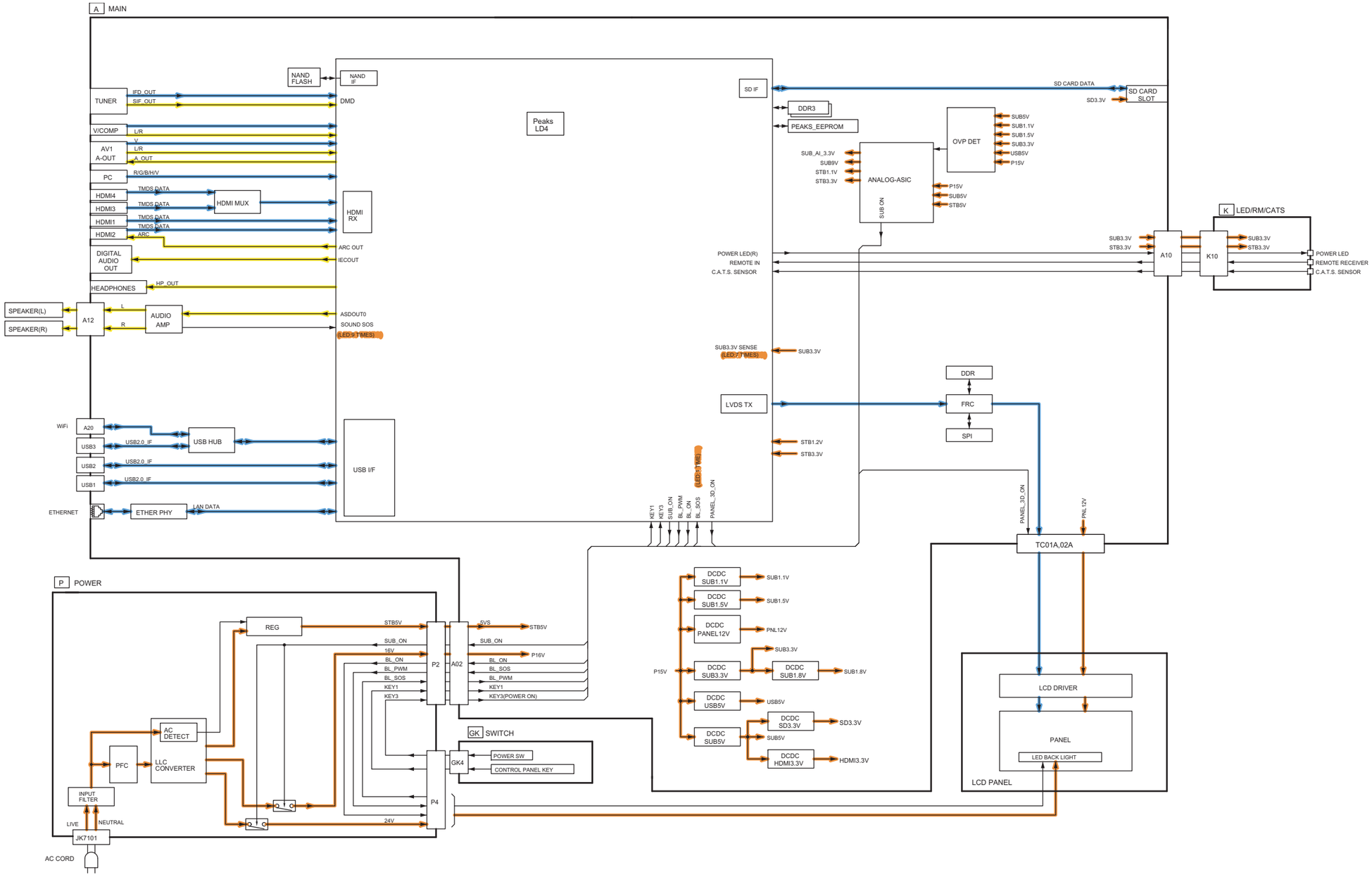
VOLTAGE	TEST POINT	SPECIFICATION
SUB1.1V	TP8100	1.10V - 1.22V
SUB1.5V	TP8101	1.435V - 1.585V
SUB1.8V	TP8700	1.7V - 1.9V
SUB3.3V	TP5400	3.17V - 3.43V
SUB5V	TP5420	4.80V - 5.25V
USB5V	TP5440	4.94V - 5.40V
PNL12V	TP4004 or TP4005	11.45V - 12.55V
FRC1.0V	TP9300	0.95V ± 1.05V
FRC1.8V	TP9301	1.71V ± 1.89V

8.2. Voltage chart of P-board

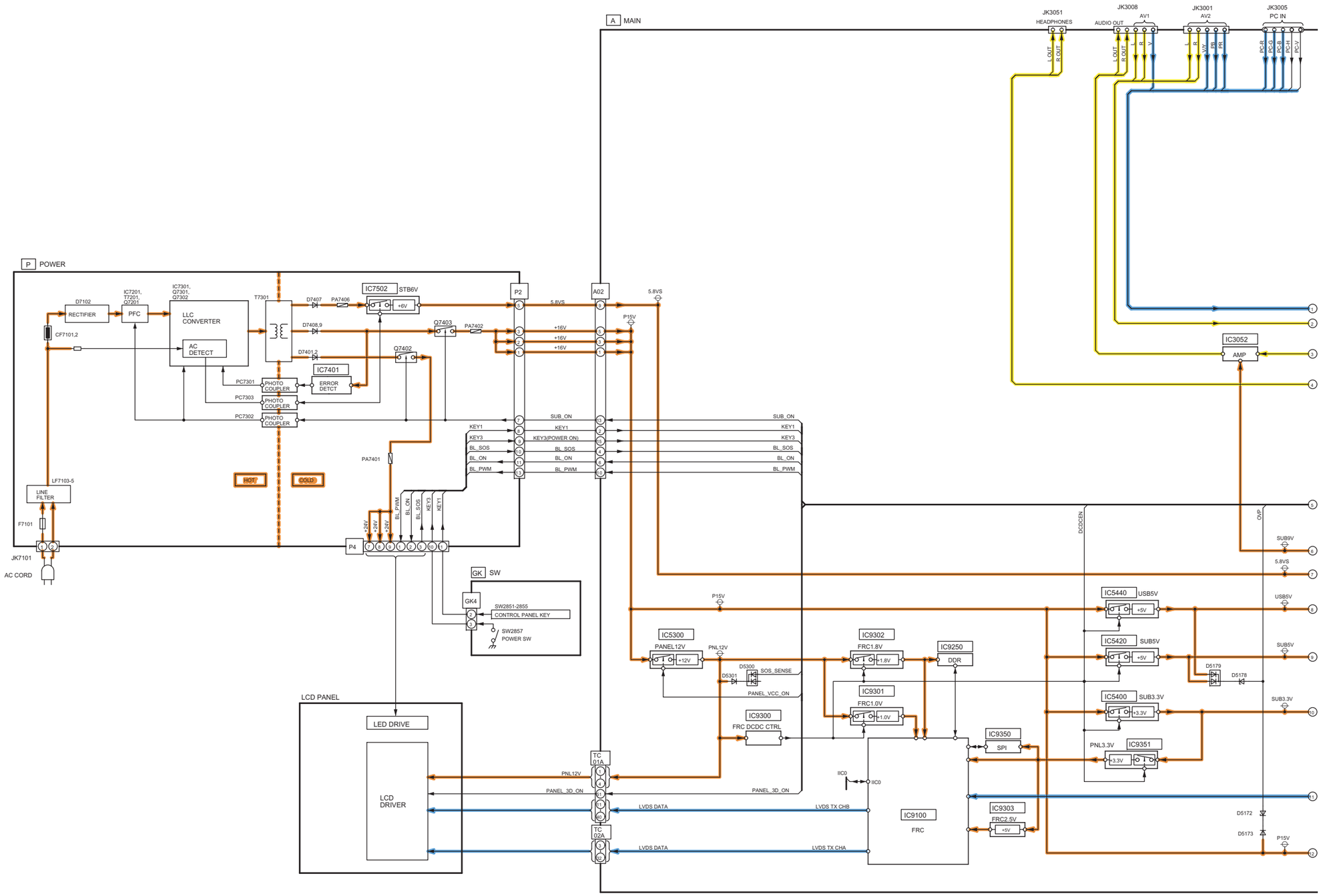
OUTPUT	TEST POINT	STEP 1	STEP 2	
24V (PANEL)	TP7512 or TP7513	< 1V	24V ± 1.2V	
16V	TP7508 or 7514	< 1V	16.1V ± 0.6V	
5VS	TP7412 or TP7507	5.3V ± 0.1V	5.3V ± 0.1V	
PFC	TP7201 or TP7202	< 340V	390V ± 15V	*HOT

9 Block Diagram

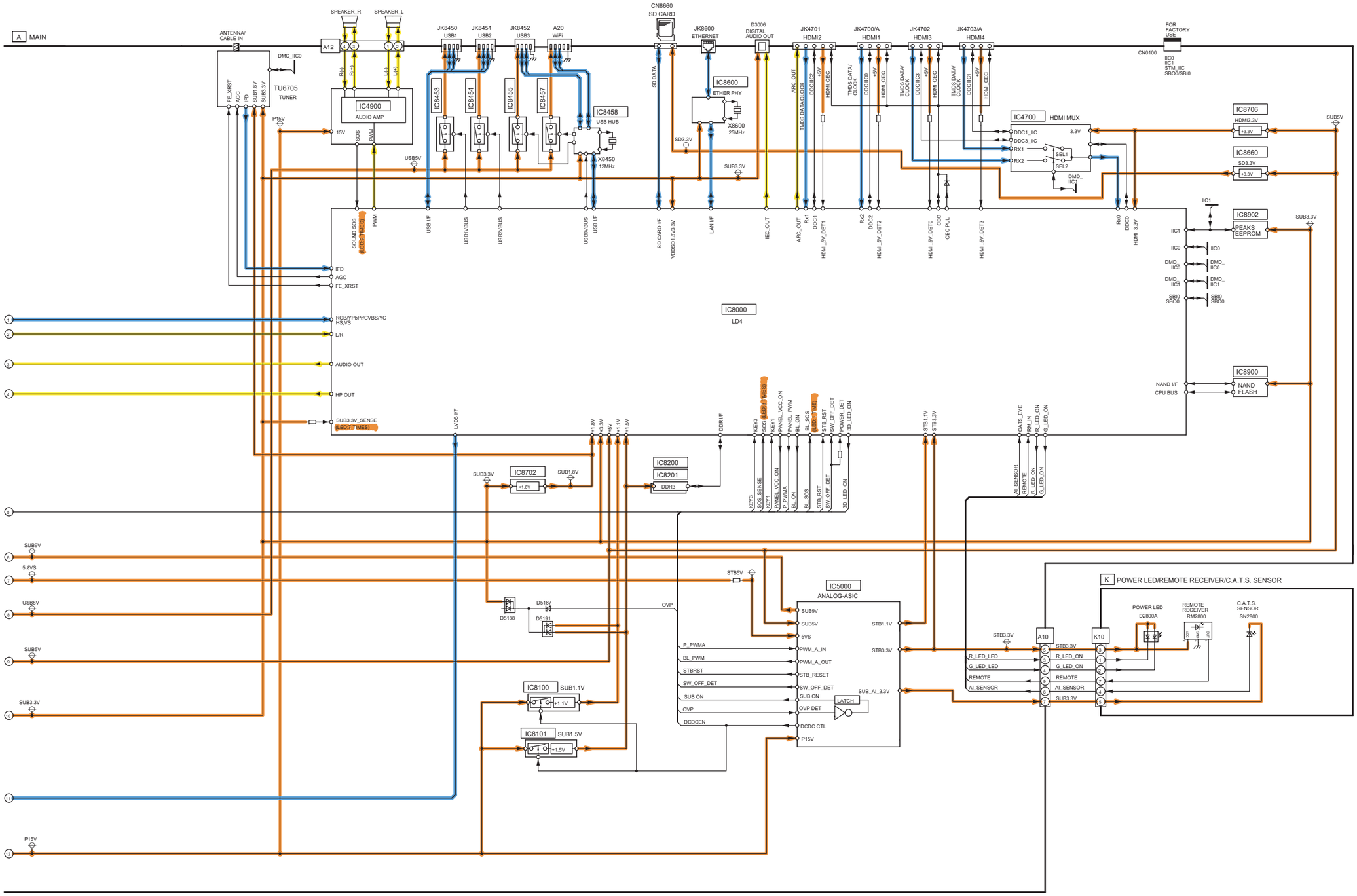
9.1. Main Block Diagram



9.2. Detailed Block Diagram (1/2)



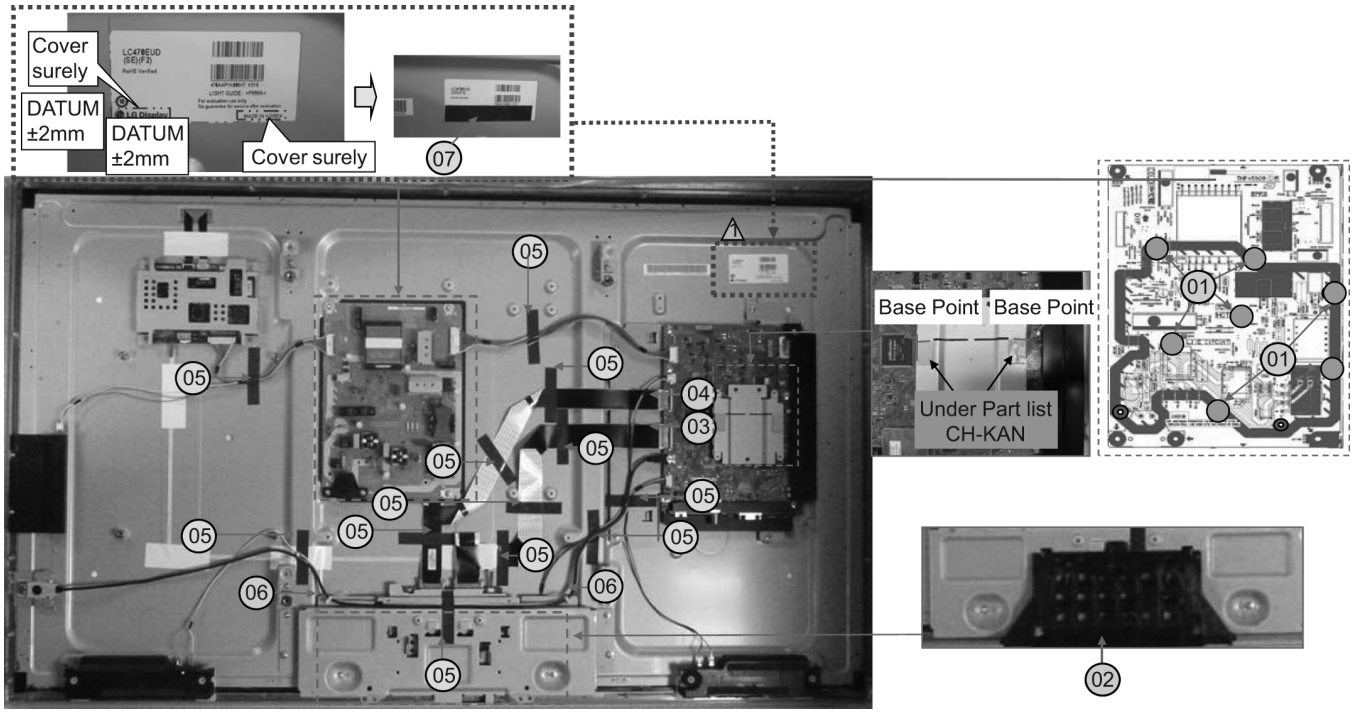
9.3. Detailed Block Diagram (2/2)



10 Wiring Connection Diagram

10.1. Wire Dressing

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



No	Qty	UOM	Description	Remarks
01	7	PC	SPACER (P_PCB)	
02	1	PC	BOTTOM COVER	
03	1	PC	LVDS FFC (51PIN)	
04	1	PC	LVDS FFC (41PIN)	
05	0.7	PC	PET TAPE (0.07× 11)	70 mm × 11
06	2	PC	CLAMPER	
07	1	PC	PET TAPE (0.07× 1)	

11 Schematic Diagram

11.1. Schematic Diagram Notes

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC110-127V, 60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

11.2. A-Board (1/17) Schematic Diagram

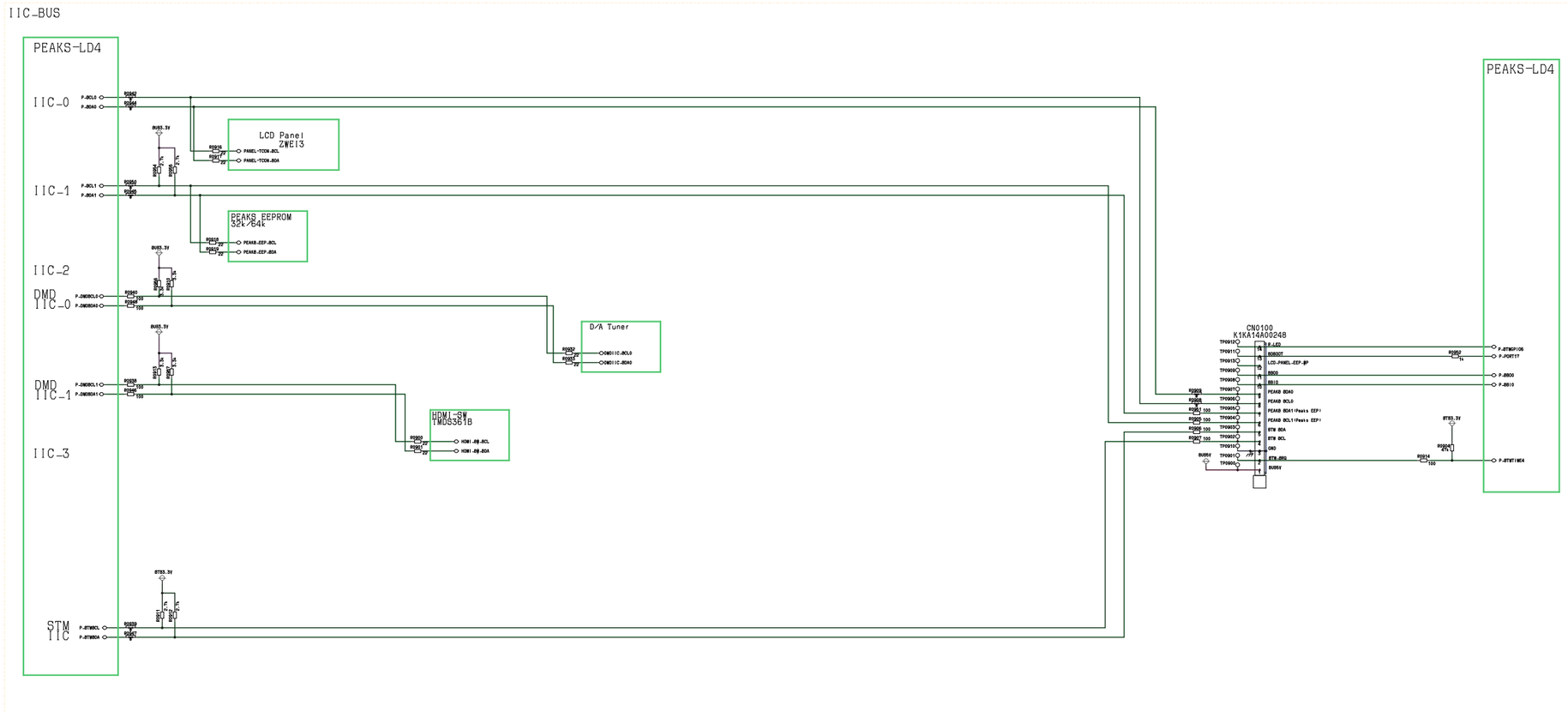
SHEET 002

IIC Net

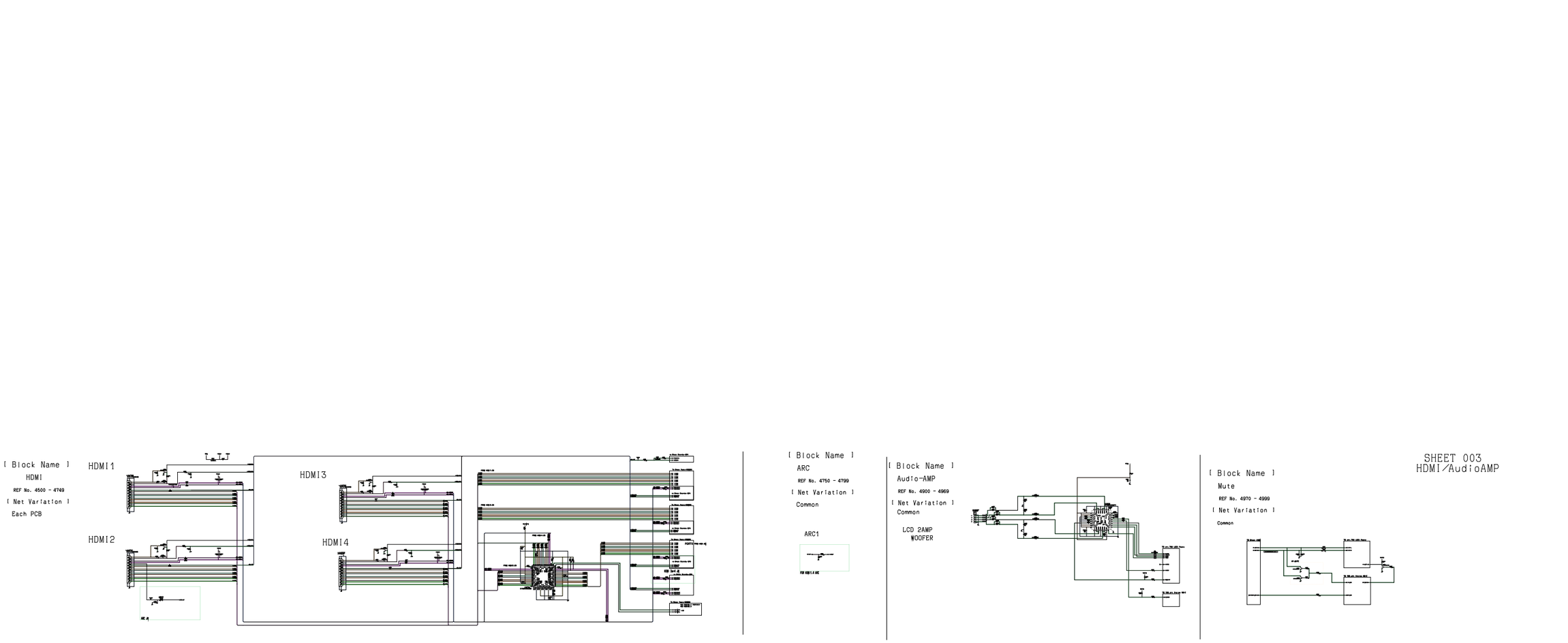
REF No. 0900 - 0999

[Net Variation]

Each PCB



11.3. A-Board (2/17) Schematic Diagram



11.4. A-Board (3/17) Schematic Diagram

[Block Name]
AVSW-Connection
REF No. 3050 - 3249
[Net Variation]
Common

Bottom

AV1 (SCART) Right Angle

AV2(AV1) Right Angle

SIDE

SIDE HP-out

AUDIO-OUT

AUDIO-IN

VIDEO-DET

VIDEO-IN

SHEET 004
AVSW

11.5. A-Board (4/17) Schematic Diagram

[Block Name]

Initial SETUP

REF No. 8800 - 8849

[Net Variation]

Common

[Block Name]

STM Port

REF No. 8850 - 8870

[Net Variation]

Common

For USA only

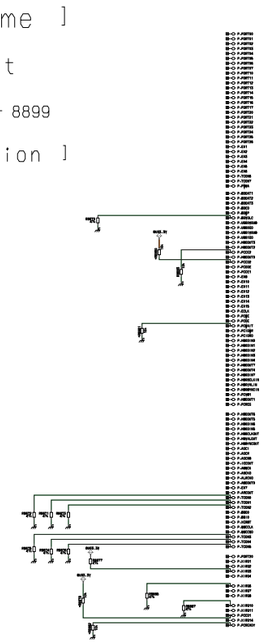
[Block Name]

Peaks Port

REF No. 8870 - 8899

[Net Variation]

Common



SHEET 005
PEAKS_OTHER

11.6. A-Board (5/17) Schematic Diagram

SHEET 006

CI

REF No. 8400 - 8449

[Net Variation]

Common

CI

Peaks-LD4

8400～8499

[Block Name]

B-CAS

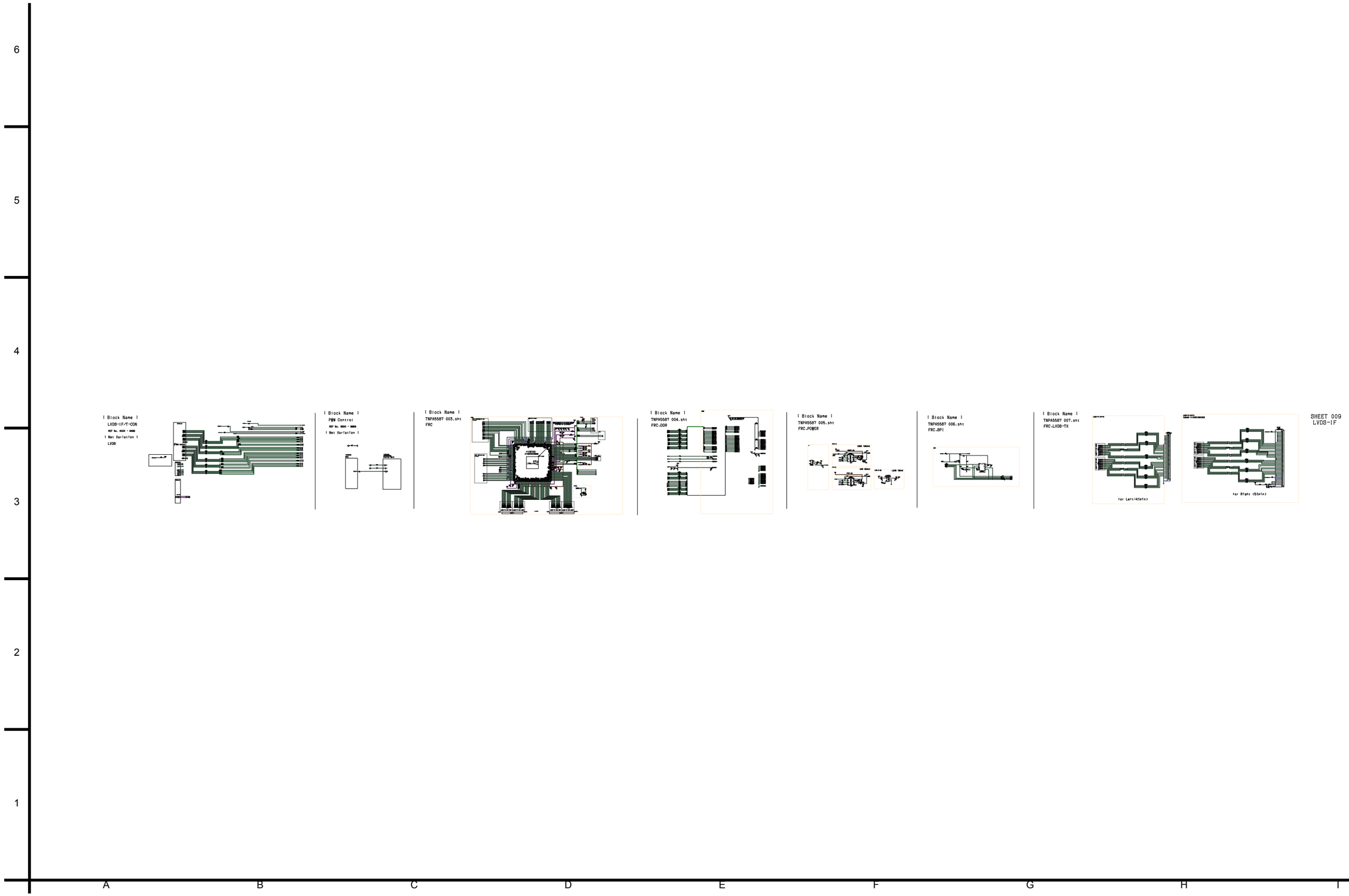
REF No. 2700 - 2749

[Net Variation]

JPN

PEAKS-LDA4

11.7. A-Board (6/17) Schematic Diagram



11.8. A-Board (7/17) Schematic Diagram

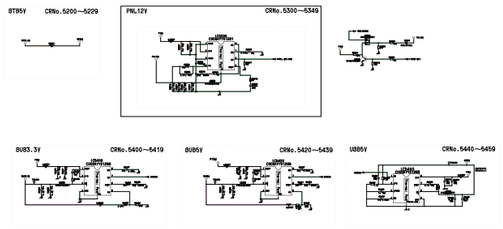
SHEET 100

POWER-Model

REF No. 5200 - 5649

[Net Variation]

LCD



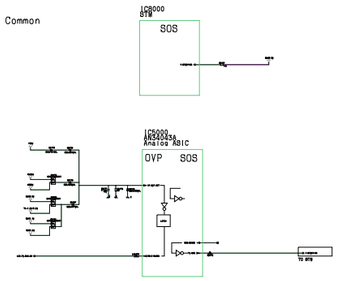
[Block Name]

SOS

REF No. 5170 - 5199

[Net Variation]

Common



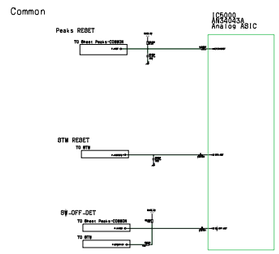
[Block Name]

POWER-DET

REF No. 5140 - 5169

[Net Variation]

Common



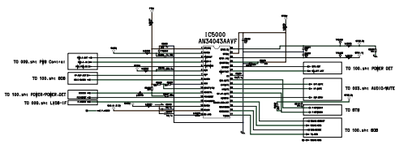
[Block Name]

Analog ASIC

REF No. 5000 - 5139

[Net Variation]

Common



[Block Name]

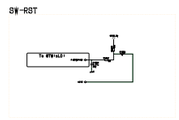
POWER KEY RESET

REF No. 1951 - 1999

[Net Variation]

Common

NonUse



11.9. A-Board (8/17) Schematic Diagram

SHEET 101

Set

REF No. 2000 - 2299

[Net Variation]

to P-PCB

to K-PCB

[Block Name]

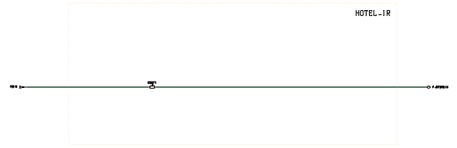
RS-232C

REF No. 3850 - 3899

[Net Variation]

IR-IN/OUT

HOTEL-IR



11.10. A-Board (9/17) Schematic Diagram

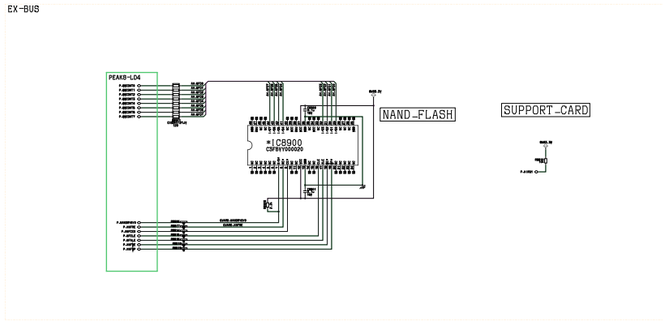
SHEET 300

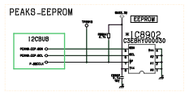
COMMON_NAND/SPC/EEPROM/JTAG

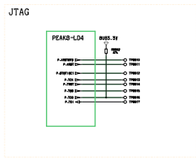
REF No.

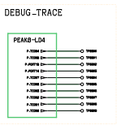
[Net Variation]

Common









11.11. A-Board (10/17) Schematic Diagram

6

5

4

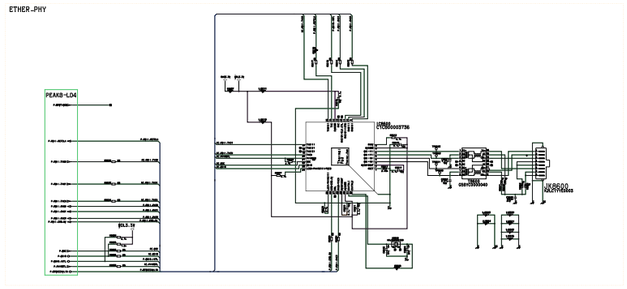
[Block Name]

LAN

REF No. 8600 - 8659

[Net Variation]

Common



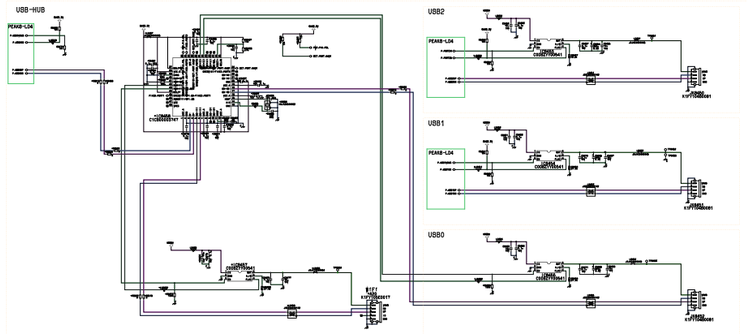
[Block Name]

USB

REF No. 8450 - 8599

[Net Variation]

Common

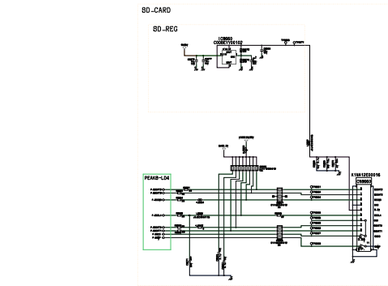


[Block Name]

SD

REF No. 8660 - 8699

[Net Variation]



3

2

1

A B C D E F G H I

11.12. A-Board (11/17) Schematic Diagram

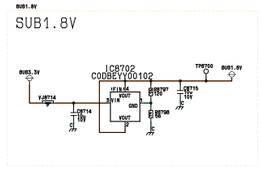
SHEET 302

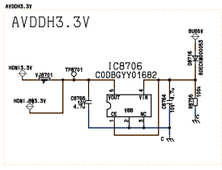
POWER-Peaks

REF No. 8000 - 8999

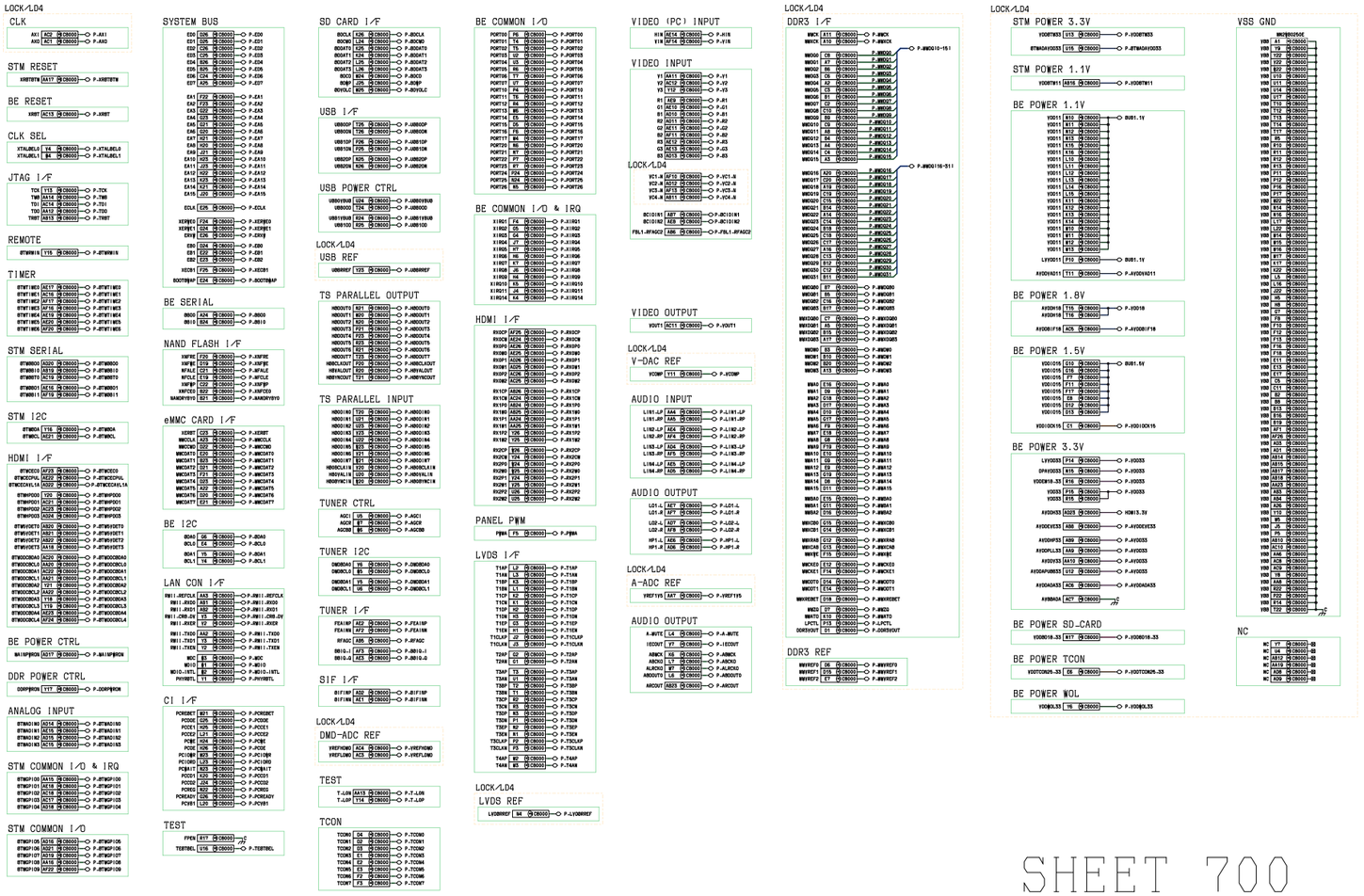
[Net Variation]

Common



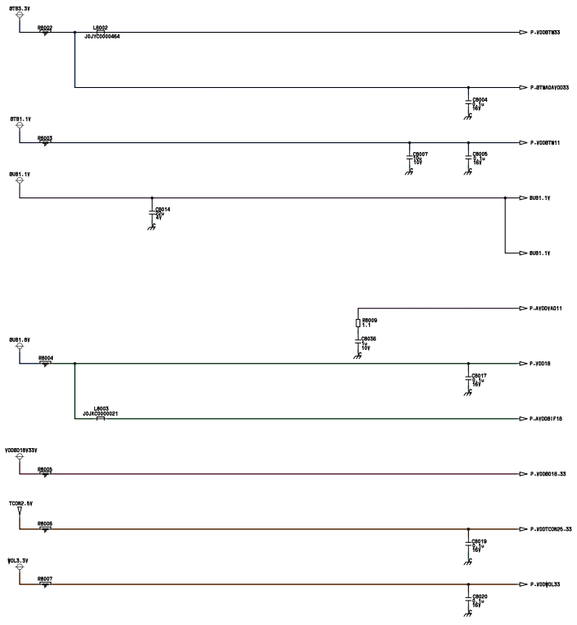


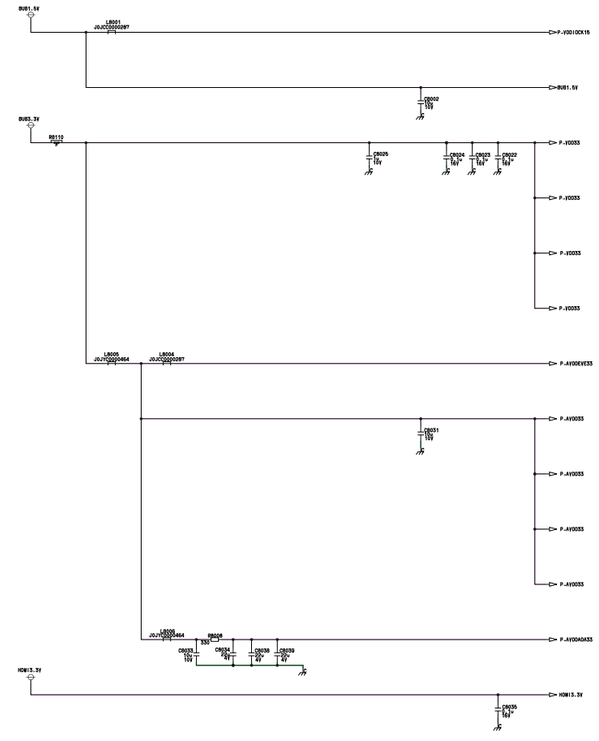
11.13. A-Board (12/17) Schematic Diagram



11.14. A-Board (13/17) Schematic Diagram

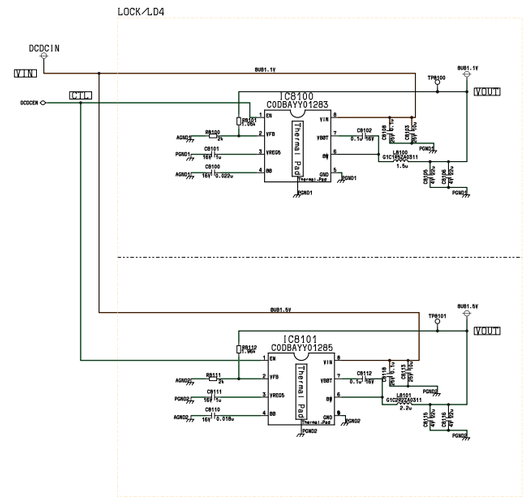
LOCK/LD4





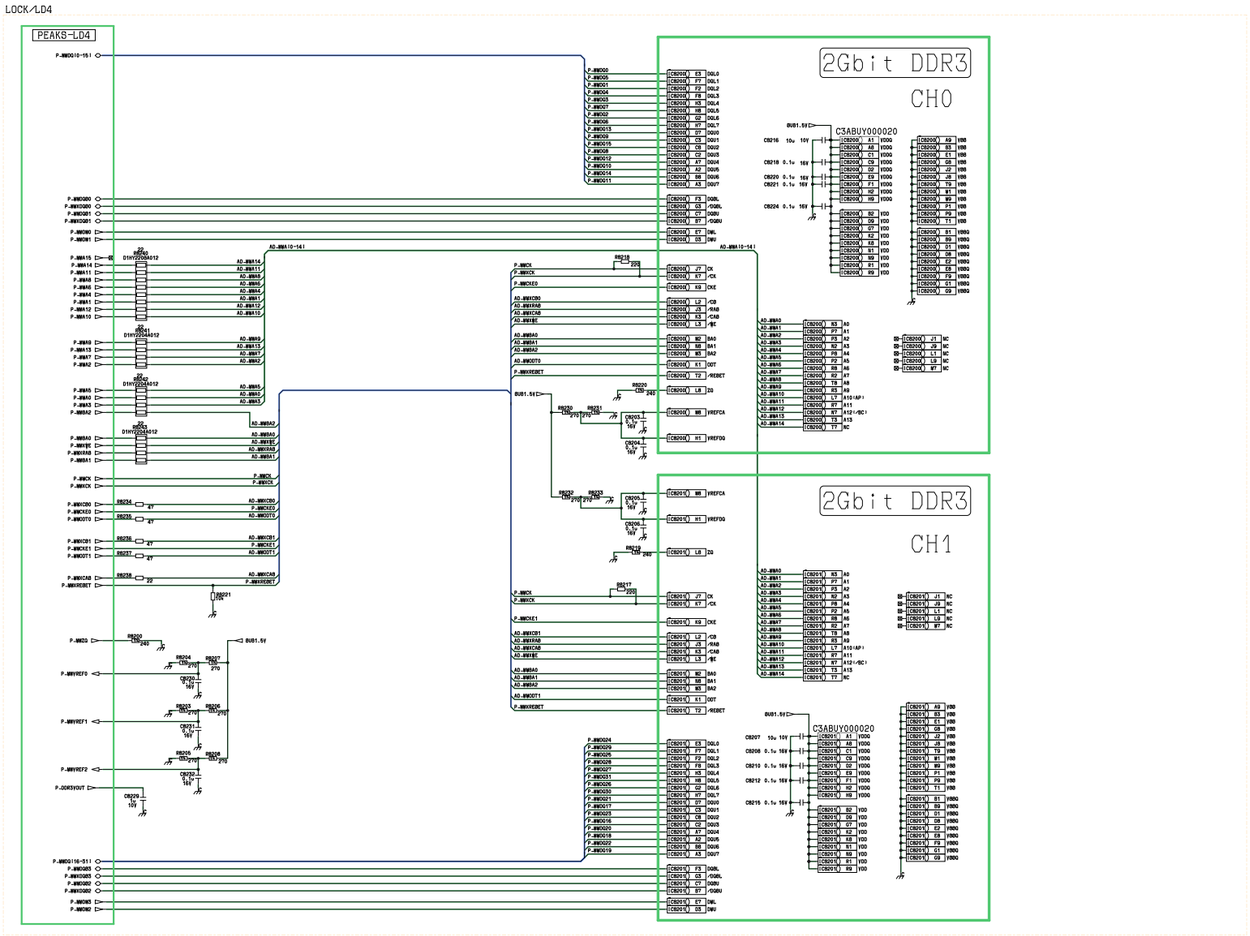
SHEET 701
LOCK_PEAKS_POWER

11.15. A-Board (14/17) Schematic Diagram

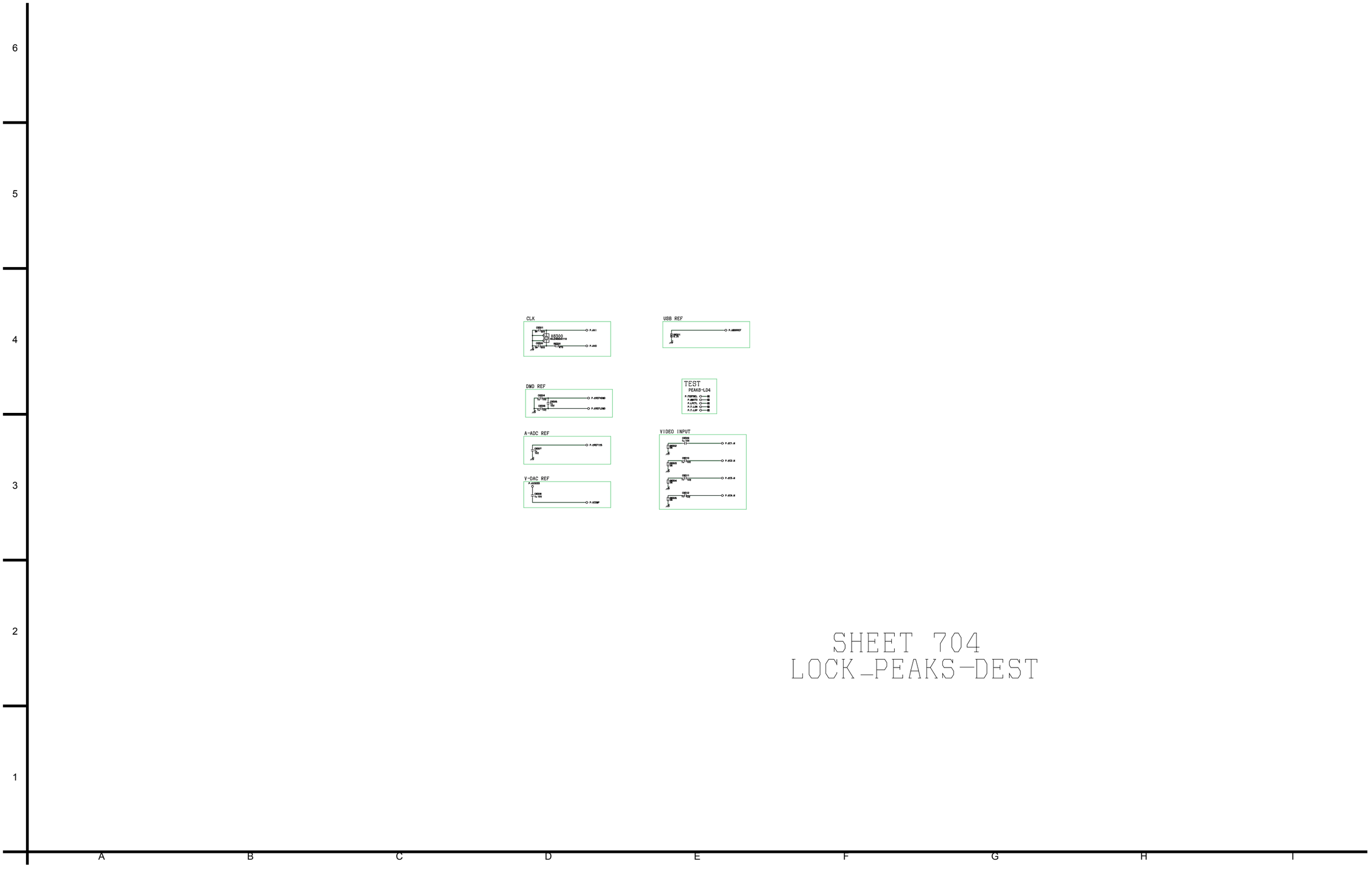


SHEET 702
LOCK_PEAKS-DCDC

11.16. A-Board (15/17) Schematic Diagram



11.17. A-Board (16/17) Schematic Diagram

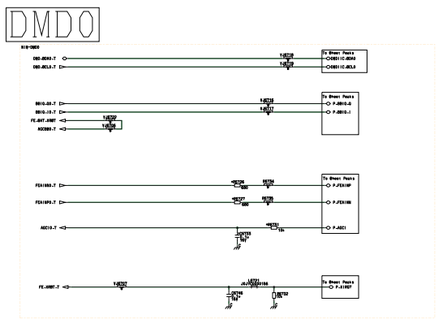


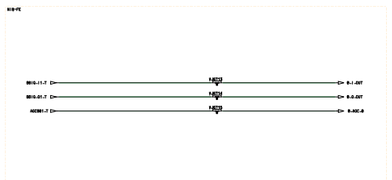
11.18. A-Board (17/17) Schematic Diagram

SHEET 706
TUNER

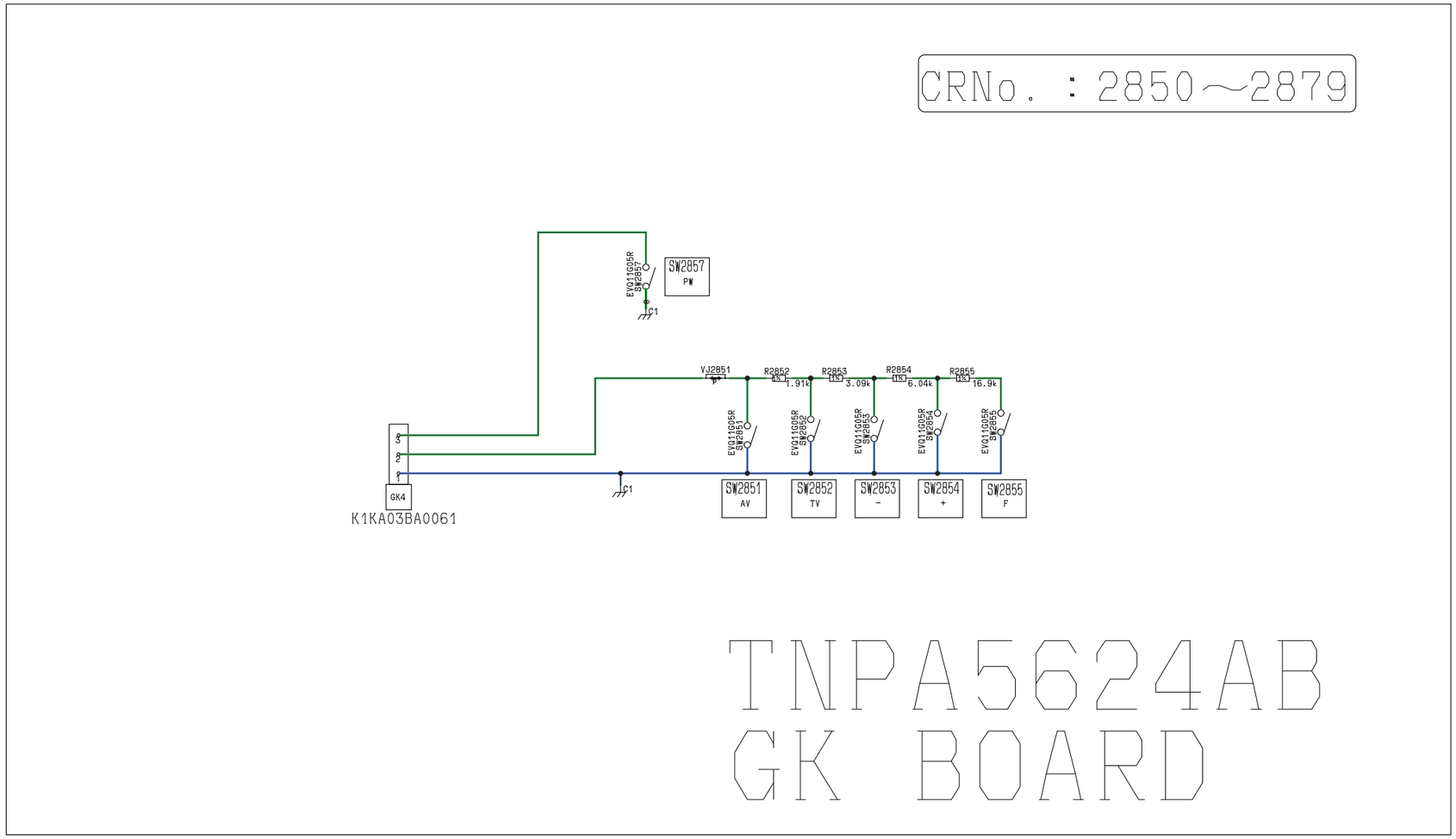
Tuner & IF line
CRNo:6700～6749

DMDO

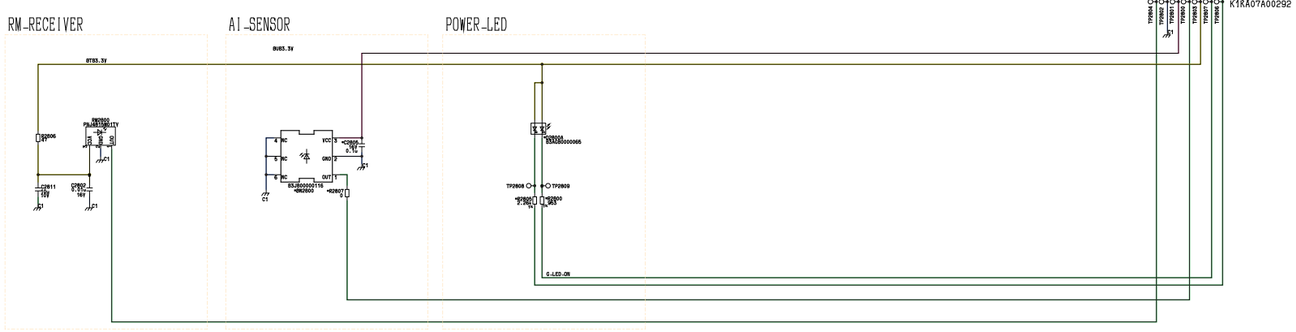




11.19. GK-Board Schematic Diagram



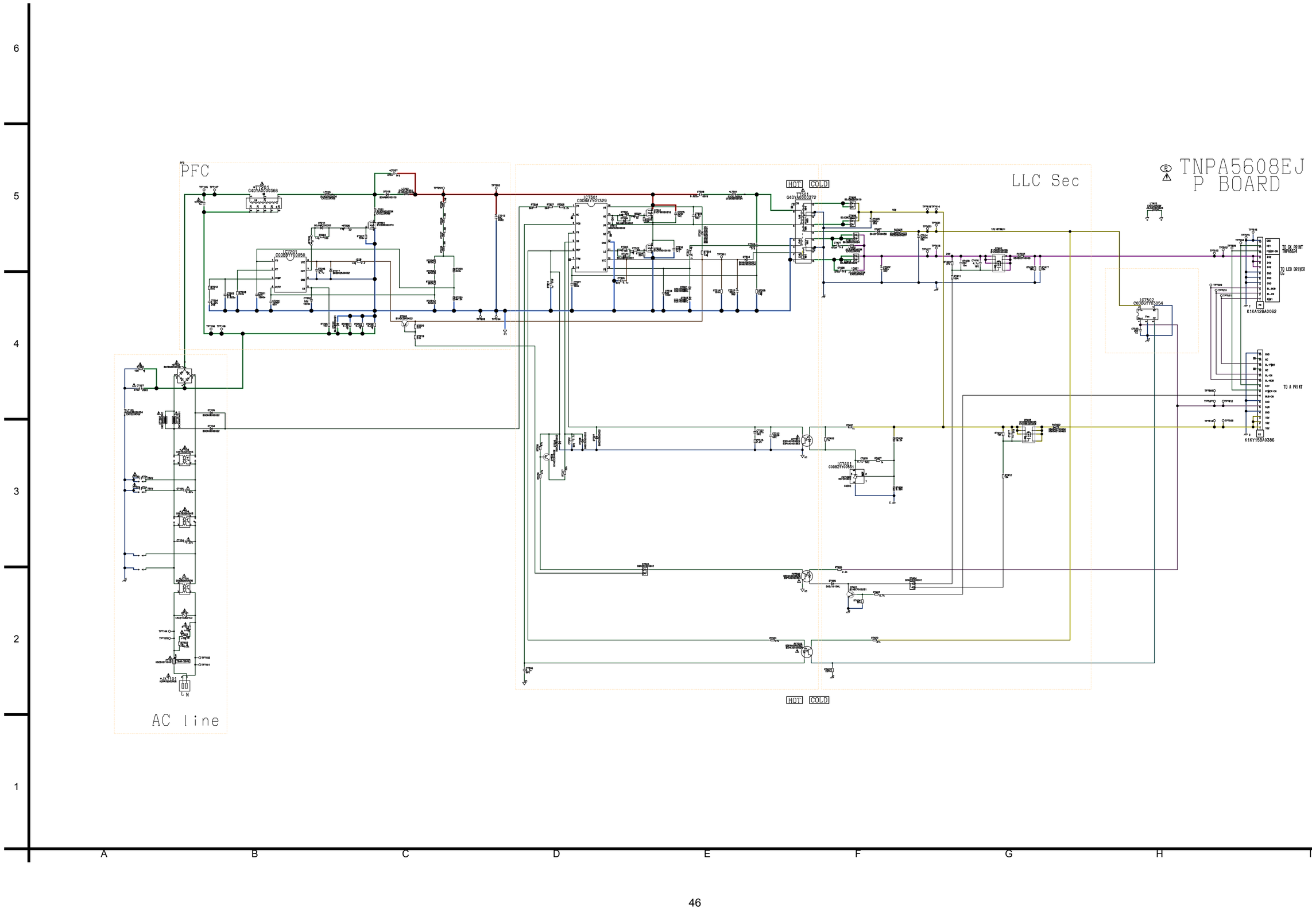
11.20. K-Board Schematic Diagram



K BOARD
TNPA5604AE

CRNo. : 2800～2849

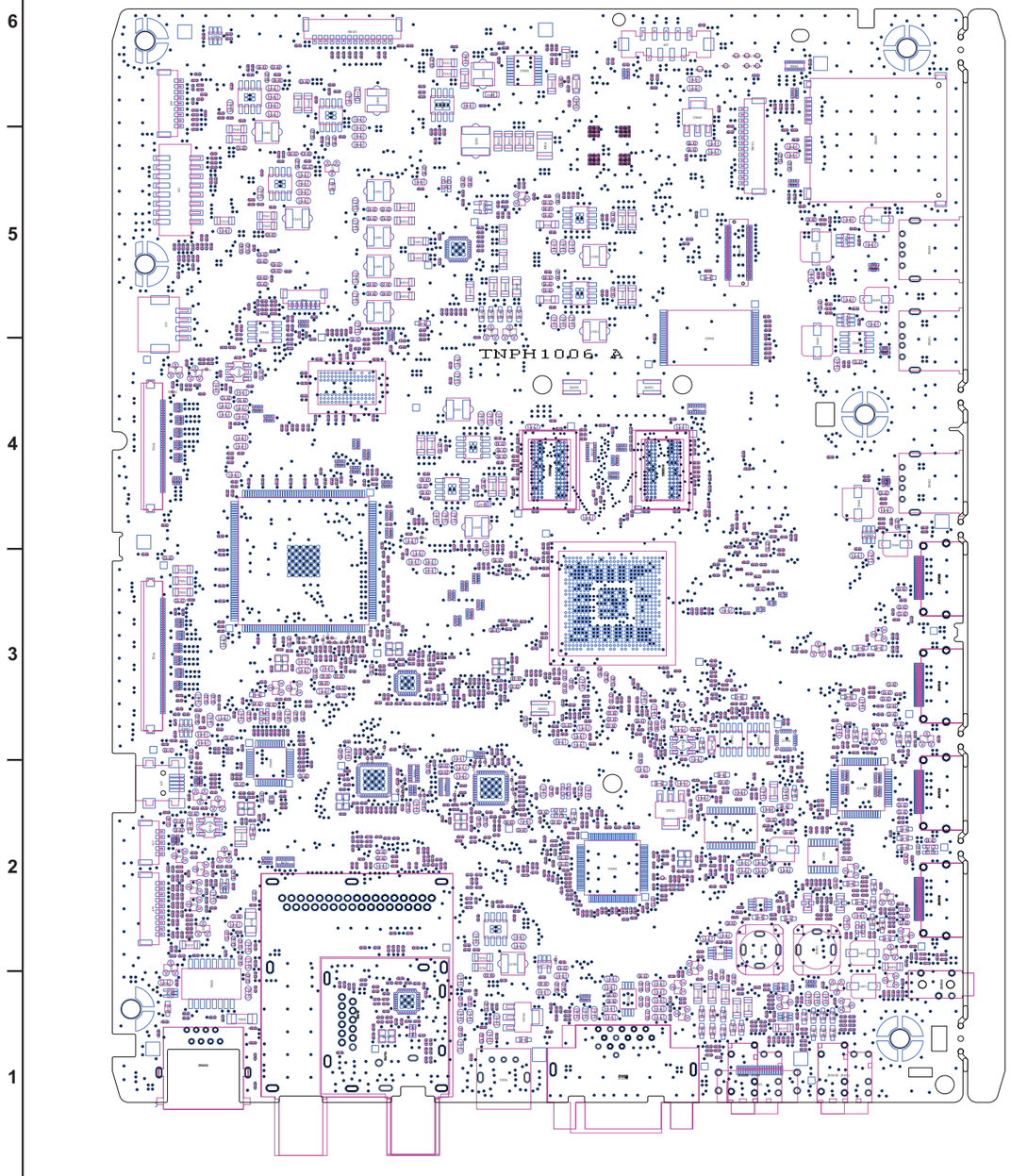
11.21. P-Board Schematic Diagram

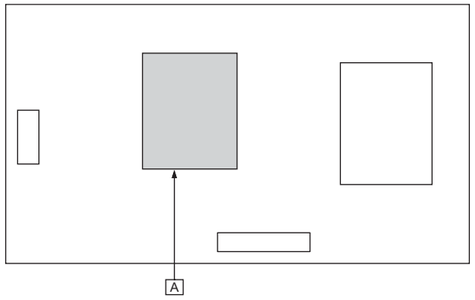


12 Printed Circuit Board

12.1. A-BOARD

A-BOARD (TOP COMPONENT SIDE)
TNPH1006

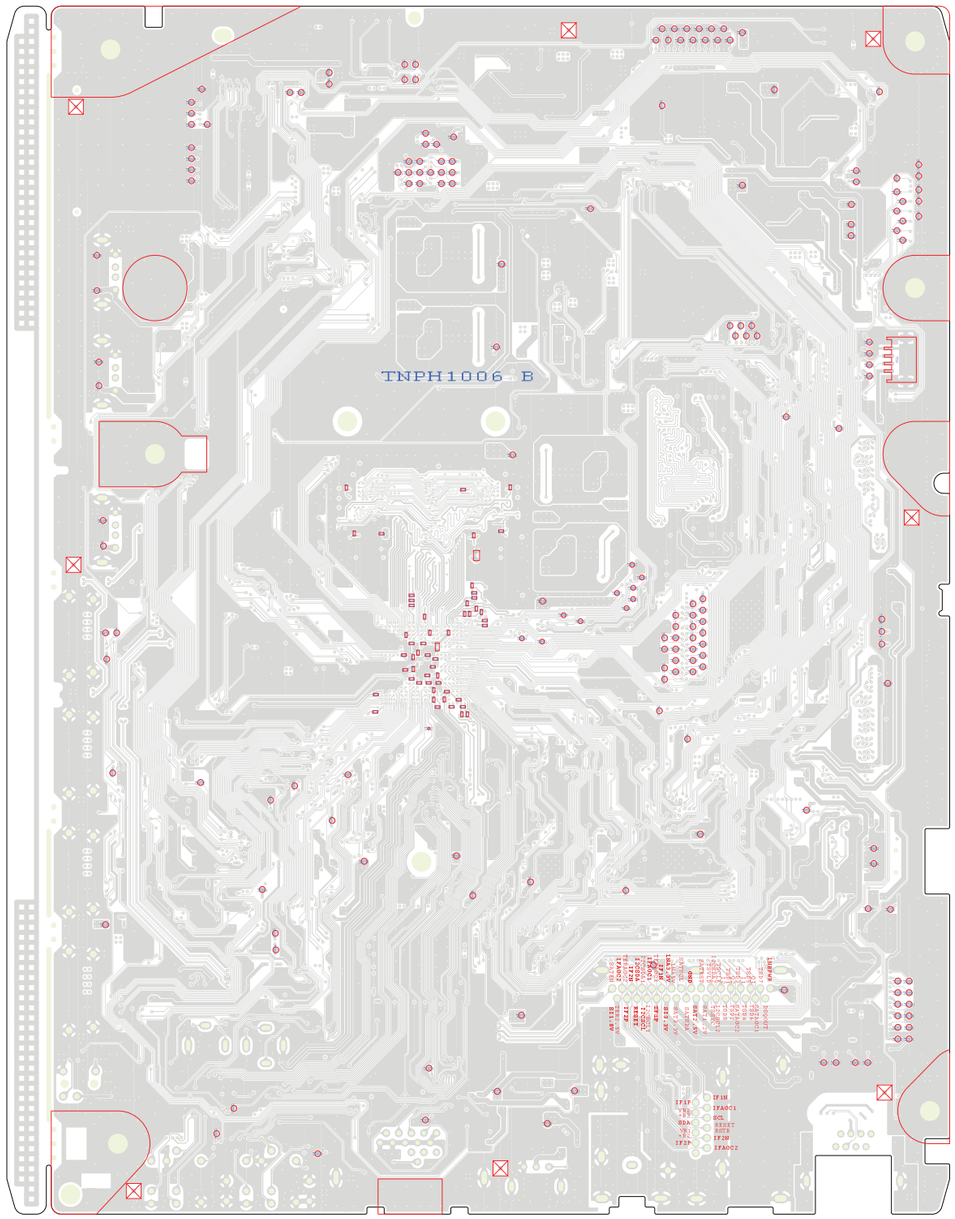


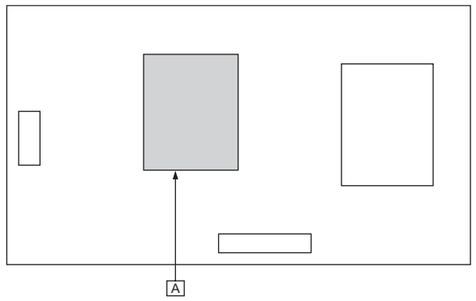


Parts Location

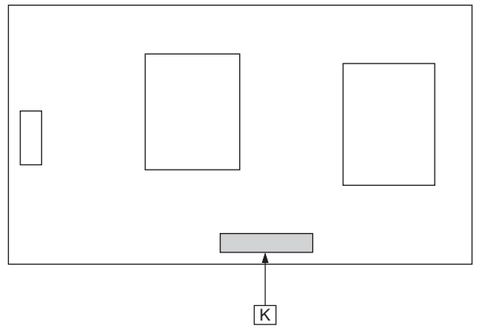
Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC1951	D2	IC8200A	C4	D1951	E2	D3102	D1	D5182	D2
IC2001	A2	IC8200B	C4	D1952	E2	D3103	D1	D5185	D2
IC2002	A1	IC8200C	C4	D1953	D2	D3104	D1	D5186	D2
IC2301	A2	IC8201	D4	D1954	D2	D3105	D1	D5187	C5
IC3050	D2	IC8201A	D4	D1955	E2	D3130	D1	D5188	C5
IC3052	C1	IC8201B	D4	D2000	B2	D3851	D2	D5191	C5
IC3851	D2	IC8201C	D4	D2001	A2	D3852	D2	D5201	E2
IC3871	D2	IC8451	D5	D2002	A2	D3871	D2	D5207	E2
IC3900	D3	IC8453	D5	D2003	A2	D3872	D2	D5300	B3
IC4700	E2	IC8454	D5	D2004	A2	D3873	D2	D5301	B3
IC4900	C5	IC8455	E4	D2005	A2	D3874	D2	D5440	B6
IC5000	D2	IC8457	A3	D2006	A2	D3875	D2	D5700	C1
IC5202	E2	IC8458	B2	D2007	A2	D4000	B5	D5800	C6
IC5300	C6	IC8600	B3	D2008	A2	D4702	E3	D5801	C6
IC5400	B6	IC8660	D6	D2009	A2	D4703	E3	D6700	B2
IC5420	B5	IC8702	D2	D2010	A2	D4704	E2	D6750	B1
IC5440	B6	IC8704	C2	D2011	A1	D4719	E2	D8102	C4
IC5700	C1	IC8706	D3	D2016	A5	D4720	E2	D8702	D2
IC5720	C2	IC8900	D4	D2017	A5	D4735	E2	D8703	C2
IC5740	B3	IC8901	D3	D2300	A2	D4736	E2	D8704	D2
IC5760	C2	IC8902	D3	D3006	C1	D4770	D3	D8716	D2
IC5780	C2	IC9100	B3	D3050	D1	D4771	D3	D8850	D5
IC5800	C6	IC9250	B4	D3051	D1	D4772	E2	D8851	D3
IC6751	B1	IC9300	C5	D3052	D1	D4785	D3	D9308	C5
IC6800	C2	IC9301	C5	D3053	D1	D5172	C5	D9310	C5
IC6900	B2	IC9302	C5	D3054	D1	D5173	C5		
IC6951	C2	IC9303	B4	D3055	D1	D5176	C5		
IC8000	C3	IC9350	C4	D3056	D1	D5177	C5		
IC8100	C4	IC9351	C5	D3057	D1	D5178	B5		
IC8101	C4	IC9980	A6	D3100	D1	D5179	B5		
IC8200	C4			D3101	D1	D5180	D2		

A-BOARD (BOTTOM COMPONENT SIDE)
TNPH1006

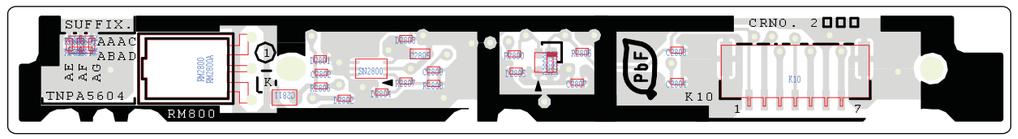




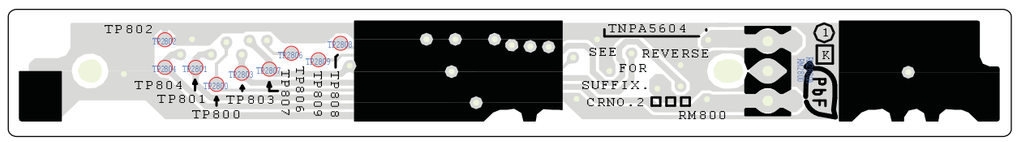
12.2. K-BOARD



K-BOARD (TOP COMPONENT SIDE)
TNPA5604



K-BOARD (BOTTOM COMPONENT SIDE)
TNPA5604

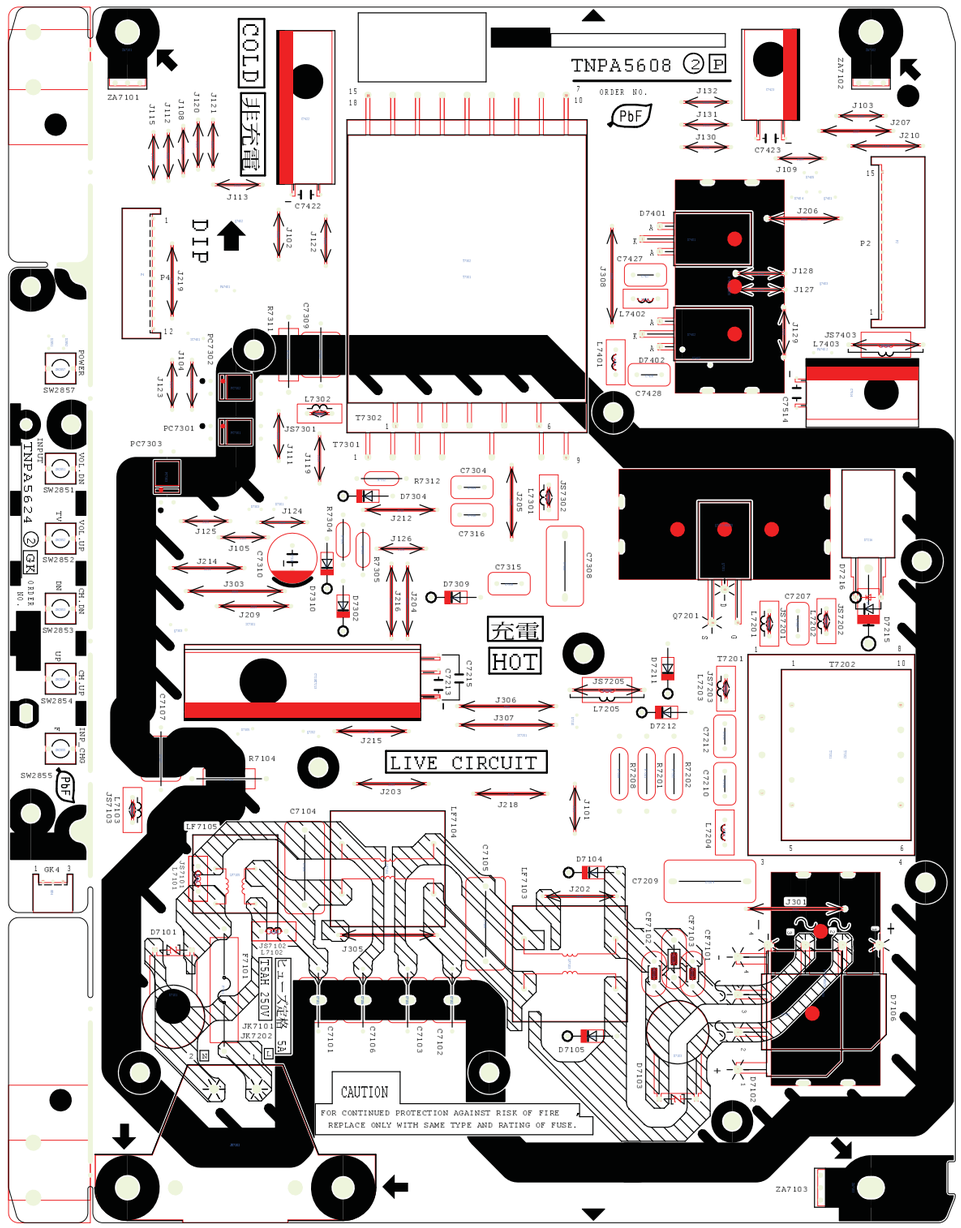


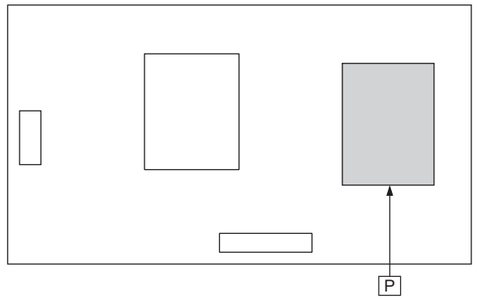
Parts Location

Ref.No	Location
D2800A	D4
D2800B	D4
D2801	C4
D2802	C4
D2803	D4
D2804	D4
D2805	D4

12.3. P-BOARD

P-BOARD (TOP COMPONENT SIDE)
TNPA5608

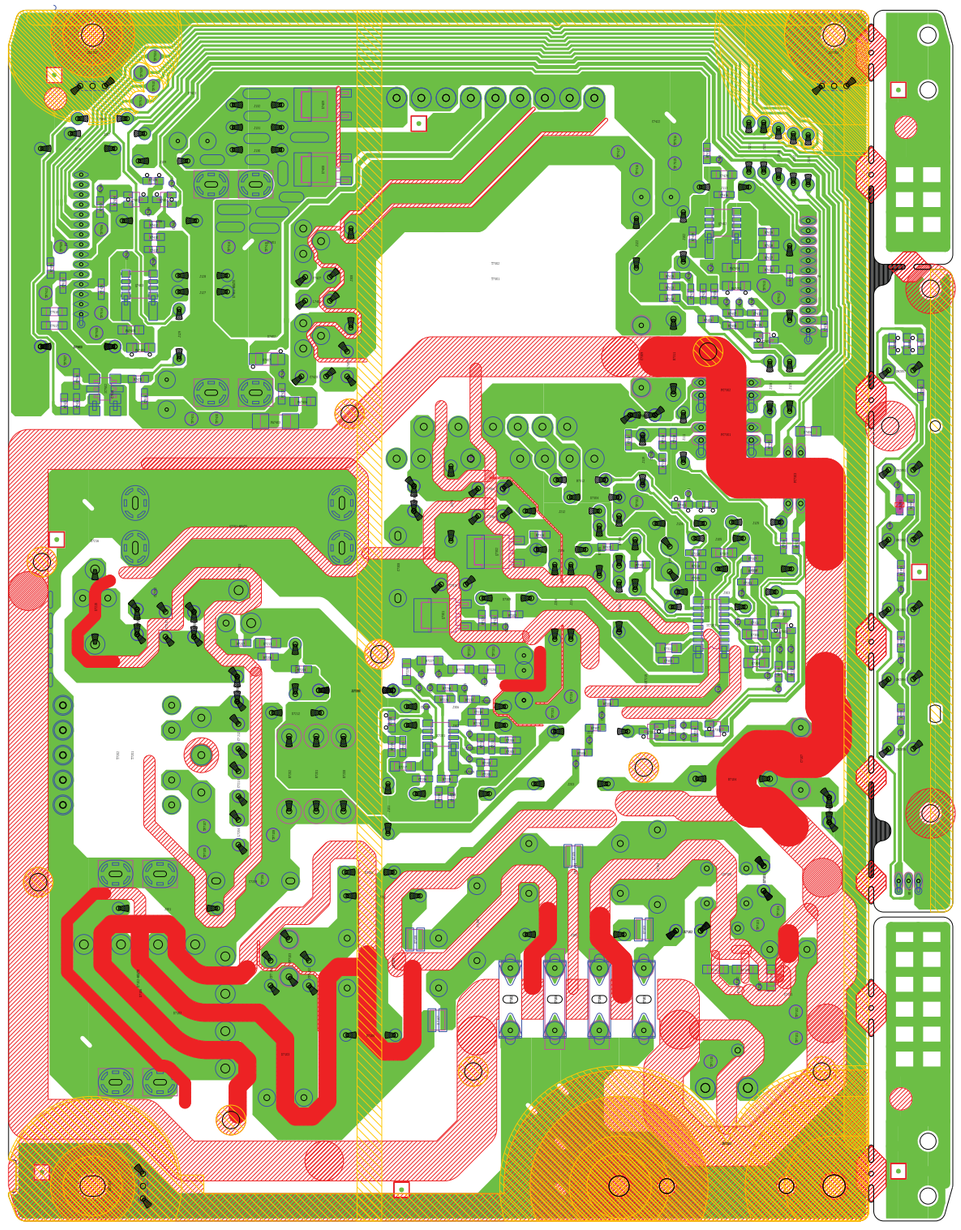


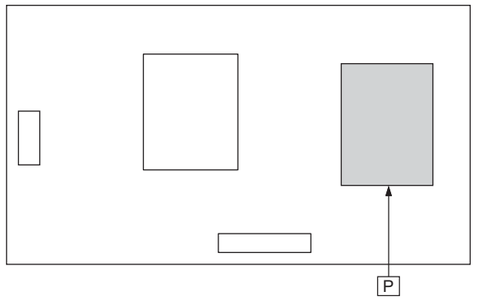


Parts Location

Ref.No	Location	Ref.No	Location
D7101	B2	D7215	E3
D7102	D1	D7216	E3
D7103	D1	D7302	B3
D7104	D2	D7304	C4
D7105	C1	D7309	C3
D7106	E2	D7310	B3
D7211	D3	D7401	D5
D7212	D3	D7402	D4

P-BOARD (BOTTOM COMPONENT SIDE)
TNPA5608





Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7201	C3	D2851	E5	D7215	A3	D7309	C3
IC7301	D3	D2852	E5	D7216	A4	D7310	D4
IC7401	D5	D7101	D2	D7217	C3	D7311	D3
IC7502	A4	D7102	B2	D7301	D4	D7401	B5
		D7103	B1	D7302	D3	D7404	A5
		D7104	C2	D7303	D4	D7405	A5
		D7105	C1	D7304	D4	D7406	E4
		D7106	B2	D7305	D3	D7407	B4
		D7210	C3	D7306	D3	D7408	B5
		D7211	B3	D7307	D4	D7409	B6
		D7213	B3	D7308	D3		

13 Exploded View and Replacement Parts List

13.1. Exploded View and Mechanical Replacement Parts List

Please click the radio button for 'Diagrams II/Parts List' on the menu bar.

13.2. Electrical Replacement Parts List

13.2.1. Replacement Parts List Notes

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon F : Fuse M : Metal Oxide Metal FIlm S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

Type	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyprop lene T : Tantalum	C : ±0.25pF D : ±0.5pF F : ±1pF G : ±3pF J : ±5pF K : ±10pF L : ±15pF M : ±20pF P : +100%, -0% Z : +80%, -20%

13.2.2. Electrical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
	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 560PF , 50V	
	C3109	F1G1H561A830	C 560PF , 50V	
	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	
	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 , 4V	
	C4972	F2G0G101A007	E 100UF , 4V	
	C5000	F1G1A105A047	C 1UF , 10V	
	C5002	F1G1A105A047	C 1UF , 10V	
	C5004	F1G1A105A047	C 1UF , 25V	
	C5006	F1J1E105A287	C 1UF , 10V	
	C5012	F1G1A105A047	C 0.1UF , 16V	
	C5020	F1G1C104A077	C 1UF , 10V	
	C5021	F1G1A105A047	C 1UF , 10V	
	C5022	F1G1A105A047	C 1UF , 16V	
	C5026	F1H1C105A145	C 0.01UF , 25V	
	C5150	F1G1E1030005	C 0.01UF , 25V	
	C5151	F1G1E1030005	C 0.01UF , 16V	
	C5171	F1G1C1030008	C 0.01UF , 16V	
	C5318	F1G1H3320004	C 3300PF , 50V	
	C5319	F1K1E106A134	C 10UF , 25V	
	C5320	F1K1E106A134	C 10UF , 25V	
	C5321	F1K1E106A134	C 10UF , 25V	
	C5322	F1K1E106A134	C 10UF , 25V	
	C5323	F1K1E106A134	C 10UF , 25V	
	C5324	F1K1E106A134	C 10UF , 25V	
	C5325	F1G1H103A835	C 0.01UF , 50V	
	C5326	F1G1C183A116	C 0.018UF , 16V	
	C5328	F1G1H472A571	C 4700PF , 50V	
	C5400	F1K1V106A010	C 10UF , 10V	
	C5401	F1K1V106A010	C 10UF , 10V	
	C5402	F1G1C104A077	C 0.1UF , 16V	
	C5403	F1J0J2260004	C 22UF , 6.3V	
	C5404	F1J0J2260004	C 22UF , 6.3V	
	C5407	F1G1E333A059	C 0.033UF , 25V	
	C5408	F1G1H222A830	C 2200PF , 50V	
	C5420	F1K1V106A010	C 10UF , 10V	
	C5421	F1K1V106A010	C 10UF , 10V	
	C5422	F1G1C104A077	C 0.1UF , 16V	
	C5423	F1J0J2260004	C 22UF , 6.3V	
	C5424	F1J0J2260004	C 22UF , 6.3V	
	C5427	F1G1E333A059	C 0.033UF , 25V	
	C5428	F1G1H222A830	C 2200PF , 50V	
	C5440	F1K1V106A010	C 10UF , 10V	
	C5441	F1K1V106A010	C 10UF , 10V	
	C5442	F1G1C223A081	C 0.022UF , 16V	
	C5443	F1J0J2260004	C 22UF , 6.3V	
	C5444	F1J0J2260004	C 22UF , 6.3V	
	C5448	F1H1C105A145	C 1UF , 16V	
	C5449	F1G1C104A077	C 0.1UF , 16V	
	C5450	F1G1H100A833	C 10PF , 50V	
	C6707	F1G1C104A077	C 0.1UF , 16V	
	C6708	F1J0J2260004	C 22UF , 6.3V	
	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	
⚠	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	
	C7209	ECWF2W824KAC	C 1UF , 240V	
	C7213	F2A2W6800011	C 68UF , 450V	
	C7214	F1J1H102A909	C 1000PF , 50V	
	C7302	F1J1H104A902	C 0.1UF , 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 , 800V	
	C7310	F2A1V3310067	C 330UF , 35V	
	C7311	F1J1E105A287	C 1UF , 25V	
	C7312	F1J1H474A757	C 0.47UF , 50V	
	C7313	F1J1H102A909	C 1000PF , 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7314	F1J1H101A906	C 100PF , 50V	
	C7315	F1A3A221A060	C 220PF , 1kV	
	C7316	F1A3A221A060	C 220PF , 1kV	
	C7416	F1J1C475A225	C 4.7uF , 16V	
	C7417	F1J1E105A287	C 1UF , 25V	
	C7418	F1J1H104A902	C 0.022UF , 50V	
	C7422	F2A1V6810039	C 680UF , 35V	
	C7423	F2A1E6810033	C 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 22UF , 4V	
	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 22UF , 4V	
	C8035	F1G1C104A077	C 0.1UF , 16V	
	C8036	F1G1A105A047	C 1UF , 10V	
	C8038	F1J0G2260001	C 22UF , 4V	
	C8039	F1J0G2260001	C 22UF , 4V	
	C8100	F1G1C223A146	C 0.022UF , 16V	
	C8101	F1H1C105A145	C 1UF , 16V	
	C8102	F1G1C104A077	C 0.1UF , 16V	
	C8103	F1K1E106A134	C 10UF , 25V	
	C8105	F1J0G2260001	C 22UF , 4V	
	C8106	F1J0G2260001	C 22UF , 4V	
	C8108	F1H1E104A029	C 0.1UF , 25V	
	C8110	F1G1C183A146	C 0.018UF , 16V	
	C8111	F1H1C105A145	C 1UF , 16V	
	C8112	F1G1C104A077	C 0.1UF , 16V	
	C8113	F1K1E106A134	C 10UF , 25V	
	C8115	F1J0G2260001	C 22UF , 4V	
	C8116	F1J0G2260001	C 22UF , 4V	
	C8118	F1H1E104A029	C 0.1UF , 25V	
	C8203	F1G1C104A077	C 0.1UF , 16V	
	C8204	F1G1C104A077	C 0.1UF , 16V	
	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 9PF , 50V	
	C8301	F1G1H9R0A831	C 9PF , 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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8311	F1G1A105A047	C 1UF , 10V	
	C8312	F1G1A105A047	C 1UF , 10V	
	C8452	F1J1A106A087	C 10UF , 10V	
	C8453	F1G1C104A077	C 0.1UF , 16V	
	C8454	EEEHB0J221UP	C 220UF , 6.3V	
	C8455	F1J1A106A087	C 10UF , 10V	
	C8457	F1G1C104A077	C 0.1UF , 16V	
	C8461	F1J1A106A087	C 10UF , 10V	
	C8462	F1J1A106A087	C 10UF , 10V	
	C8463	F1G1C104A077	C 0.1UF , 16V	
	C8464	F1G1C104A077	C 0.1UF , 16V	
	C8465	EEEHB0J221UP	C 220UF , 6.3V	
	C8466	EEEHB0J221UP	C 220UF , 6.3V	
	C8467	F1J1A106A087	C 10UF , 10V	
	C8469	F1J1A106A087	C 10UF , 10V	
	C8470	F1G1C104A077	C 0.1UF , 16V	
	C8471	F1G1C104A077	C 0.1UF , 16V	
	C8474	F1J1A106A087	C 10UF , 10V	
	C8475	F1G1C104A077	C 0.1UF , 16V	
	C8477	F1J1A106A087	C 10UF , 10V	
	C8478	F1G1C104A077	C 0.1UF , 16V	
	C8479	F1G1C104A077	C 0.1UF , 16V	
	C8480	F1G1C104A077	C 0.1UF , 16V	
	C8481	F1H1C105A145	C 1UF , 16V	
	C8482	F1G1C104A077	C 0.1UF , 16V	
	C8483	F1H1C105A145	C 1UF , 16V	
	C8484	F1G1H120A834	C 12PF , 50V	
	C8485	F1G1H120A834	C 12PF , 50V	
	C8486	F1G1C104A077	C 0.1UF , 16V	
	C8487	F1G1C104A077	C 0.1UF , 16V	
	C8488	F1H1C105A145	C 1UF , 16V	
	C8489	F1G1C104A077	C 0.1UF , 16V	
	C8490	F1G1C104A077	C 0.1UF , 16V	
	C8491	F1G1C104A077	C 0.1UF , 16V	
	C8492	F1G1C104A077	C 0.1UF , 16V	
	C8600	F1L3D1020008	C 1000PF , 2kV	
	C8601	F1G1C1030008	C 0.01UF , 16V	
	C8602	F1G1C1030008	C 0.01UF , 16V	
	C8603	F1G1H8R0A831	C 8PF , 50V	
	C8604	F1G1H8R0A831	C 8PF , 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 22UF , 4V	
	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	
	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	
	C9052	F1K1E106A134	C 10UF , 25V	
	C9053	F1H1H103B047	C 0.01UF , 50V	
	C9100	F1G1H471A830	C 470UF , 50V	
	C9101	F1G1H471A830	C 470UF , 50V	
	C9102	F1G1C104A077	C 0.1UF , 16V	
	C9104	F1G1H471A830	C 470UF , 50V	
	C9112	F1G1C104A077	C 0.1UF , 16V	
	C9113	F1G1C104A077	C 0.1UF , 16V	
	C9114	F1G1C104A077	C 0.1UF , 16V	
	C9116	F1G1H471A830	C 470UF , 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C9117	F1G1C104A077	C 0.1UF , 16V	
	C9118	F1G1C104A077	C 0.1UF , 16V	
	C9119	F1H1A105A099	C 1UF , 10V	
	C9122	F1G1H471A830	C 470UF , 50V	
	C9123	F1G1H471A830	C 470UF , 50V	
	C9124	F1G1C104A077	C 0.1UF , 16V	
	C9128	F1H1A105A099	C 1UF , 10V	
	C9131	F1G1C104A077	C 0.1UF , 16V	
	C9133	F1G1H471A830	C 470UF , 50V	
	C9134	F1G1H471A830	C 470UF , 50V	
	C9135	F1G1C104A077	C 0.1UF , 16V	
	C9136	F1G1C104A077	C 0.1UF , 16V	
	C9138	F1H1A105A099	C 1UF , 10V	
	C9139	F1H1A105A099	C 1UF , 10V	
	C9140	F1G1C104A077	C 0.1UF , 16V	
	C9142	F1G1C104A077	C 0.1UF , 16V	
	C9145	F1G1C104A077	C 0.1UF , 16V	
	C9146	F1G1C104A077	C 0.1UF , 16V	
	C9148	F1J0G2260001	C 22UF , 4V	
	C9151	F1G1C104A077	C 0.1UF , 16V	
	C9152	F1G1C1030008	C 0.01UF , 16V	
	C9155	F1J0G2260001	C 22UF , 4V	
	C9156	F1J1A106A087	C 10UF , 10V	
	C9157	F1J0G2260001	C 22UF , 4V	
	C9160	F1J1A106A087	C 10UF , 10V	
	C9162	F1G1C104A077	C 0.1UF , 16V	
	C9163	F1G1H120A834	C 12PF , 50V	
	C9164	F1G1C104A077	C 0.1UF , 16V	
	C9165	F1G1C104A077	C 0.1UF , 16V	
	C9166	F1G1C104A077	C 0.1UF , 16V	
	C9167	F1G1C104A077	C 0.1UF , 16V	
	C9168	F1G1C104A077	C 0.1UF , 16V	
	C9169	F1G1H120A834	C 12PF , 50V	
	C9170	F1J0G2260001	C 22UF , 4V	
	C9171	F1J0G2260001	C 22UF , 4V	
	C9172	F1J0G2260001	C 22UF , 4V	
	C9173	F1J0G2260001	C 22UF , 4V	
	C9174	F1J0G2260001	C 22UF , 4V	
	C9182	F1J0G2260001	C 22UF , 4V	
	C9183	F1G1H471A830	C 470UF , 50V	
	C9184	F1G1C104A077	C 0.1UF , 16V	
	C9250	F1G1H471A830	C 470UF , 50V	
	C9251	F1G1A104A069	C 0.1UF , 10V	
	C9252	F1G1A104A069	C 0.1UF , 10V	
	C9253	F1G1H471A830	C 470UF , 50V	
	C9254	F1J0G2260001	C 22UF , 4V	
	C9255	F1G1A104A069	C 0.1UF , 10V	
	C9256	F1G1A104A069	C 0.1UF , 10V	
	C9259	F1G1A104A069	C 0.1UF , 10V	
	C9260	F1G1A104A069	C 0.1UF , 10V	
	C9261	F1G1A104A069	C 0.1UF , 10V	
	C9262	F1G1A104A069	C 0.1UF , 10V	
	C9266	F1G1H471A830	C 470UF , 50V	
	C9275	F1G1C104A077	C 0.1UF , 16V	
	C9278	F1G1H471A830	C 470UF , 50V	
	C9279	F1G1A105A047	C 1UF , 10V	
	C9280	F1G1A104A069	C 0.1UF , 10V	
	C9303	F1H1C105A145	C 1UF , 16V	
	C9304	F1G1C104A077	C 0.1UF , 16V	
	C9306	F1H1C105A145	C 1UF , 16V	
	C9307	F1G1C1030008	C 0.01UF , 16V	
	C9309	F1G1C104A077	C 0.1UF , 16V	
	C9310	F1H1E104A029	C 0.1UF , 25V	
	C9311	F1G1C104A077	C 0.1UF , 16V	
	C9312	F1H1E104A029	C 0.1UF , 25V	
	C9313	F1K1E106A134	C 10UF , 25V	
	C9314	F1K1E106A134	C 10UF , 25V	
	C9315	F1K1E106A134	C 10UF , 25V	
	C9317	F1J0G2260001	C 22UF , 4V	
	C9318	F1J0G2260001	C 22UF , 4V	
	C9319	F1J0G2260001	C 22UF , 4V	
	C9323	F1J1A106A087	C 10UF , 10V	
	C9329	F1H1A105A099	C 1UF , 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C9355	F1G1A1040006	C 0.1UF , 10V	
	C9359	F1J1A106A087	C 10UF , 10V	
	C9362	F1H1A105A099	C 1UF , 10V	
		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	
	D5300	B0ADCK000001	DIODE	
	D5301	DA2J10100L	DIODE	
⚠	D7101	ERZV10Q621CD	SURGE ABSORBER	
	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	
	IC5300	C0DBAYY01281	IC	
	IC5400	C0DBAYY01299	IC	
	IC5420	C0DBAYY01299	IC	
	IC5440	C0DBAYY01283	IC	
	IC7201	C0DBBYY00050	IC	
	IC7301	C0DBAYY01329	IC	
	IC7401	C0DBZYY00531	IC	
	IC7502	C0DBGYY03054	IC	
	IC8000	MN2WS0250E	IC	
	IC8100	C0DBAYY01283	IC	
	IC8101	C0DBAYY01285	IC	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	IC8200	C3ABUY000020	IC	
	IC8201	C3ABUY000020	IC	
	IC8453	C0DBZYY00541	IC	
	IC8454	C0DBZYY00541	IC	
	IC8455	C0DBZYY00541	IC	
	IC8457	C0DBZYY00541	IC	
	IC8458	C1CB00003747	IC	
	IC8600	C1CB00003736	IC	
	IC8660	C0DBEYY00102	IC	
	IC8702	C0DBEYY00102	IC	
	IC8706	C0DBGYY01682	IC	
	IC8900	TVRS836AC	ROM IC (C3FBVY000020)	
	IC8902	C3EBHY000030	IC	
	IC9100	C1AB00003869	IC	
	IC9250	C3ABSY000090	IC	
	IC9300	C0EBK0000129	IC	
	IC9301	C0DBAYY01285	IC	
	IC9302	C0DBAYY01285	IC	
	IC9303	C0DBGFD00011	IC	
	IC9350	TVRS864AB	EEPROM IC (C3FBKY000091)	
	IC9351	C0DBGYY00887	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	G1C220MA0445	INDUCTOR	
	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	J0JKC0000021	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	
	L8455	J0ZZB0000142	FILTER	
	L8459	J0ZZB0000142	FILTER	
	L8461	J0JHC0000045	COIL	
	L8462	J0JHC0000045	COIL	
	L8464	J0JHC0000045	COIL	
	L8466	J0JYC0000464	BEAD CORE	
	L8467	J0JHC0000045	COIL	
	L8660	J0JBC0000115	BEAD CORE	
	L8662	J0JHC0000045	COIL	
	L8663	D0GAR00J0005	CHIP RESISTOR	
	L8664	D0GAR00J0005	CHIP RESISTOR	
	L9101	J0JYC0000464	BEAD CORE	
	L9102	J0JYC0000464	BEAD CORE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L9104	J0JYC0000464	BEAD CORE	
	L9300	G1C2R2ZA0311	INDUCTOR	
	L9301	G1C2R2ZA0311	INDUCTOR	
		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	
	Q5303	B1ABCF000231	TRANSISTOR	
	Q7201	B1CERR000070	TRANSISTOR	
	Q7202	B1ADCE000022	TRANSISTOR	
	Q7301	B1CFRR000018	TRANSISTOR	
	Q7302	B1CFRR000018	TRANSISTOR	
	Q7303	B1ADCE000022	TRANSISTOR	
	Q7401	B1ABCF000231	TRANSISTOR	
	Q7402	B1CHRE000005	TRANSISTOR	
	Q7403	B1CHRE000005	TRANSISTOR	
	Q9350	B1ADCE000022	TRANSISTOR	
	Q9351	B1ABCF000231	TRANSISTOR	
		RESISTORS		
	R0900	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0901	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0904	D0GA473JA023	C 2.7KOHM ,J, 1/16W	
	R0905	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0906	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0907	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0910	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R0911	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0912	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0913	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R0914	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0916	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0917	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0918	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0919	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0932	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0933	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0938	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0940	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0946	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0948	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0951	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0952	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0954	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0955	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0956	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R0957	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R1951	D0GA680JA023	C 68OHM ,J, 1/16W	
	R1953	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2000	D0GA433JA023	C 43KOHM ,J, 1/16W	
	R2003	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2008	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2013	D0GA101JA023	C 1KOHM ,J, 1/16W	
	R2014	D0GA101JA023	C 100OHM ,J, 1/16W	
	R2016	D0GA122JA023	C 1.2KOHM ,J, 1/16W	
	R2034	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2051	D0GA101JA023	C 100OHM ,J, 1/16W	
	R2053	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2054	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R2055	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2058	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2059	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2060	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2061	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R2062	D0GA101JA023	C 100OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2066	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2800	D1BA9530A014	C 953OHM , 1/16W	
	R2805	D1BA2261A023	C 2.26KOHM , 1/16W	
	R2806	D0GA470JA023	C 47OHM ,J, 1/16W	
	R2807	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2811	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2852	D1BD1911A066	C 1.91KOHM , 1/16W	
	R2853	D1BD3091A066	C 3.09KOHM , 1/16W	
	R2854	D1BD6041A066	C 6.04KOHM , 1/16W	
	R2855	D1BD1692A066	C 16.9KOHM , 1/16W	
	R3101	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3102	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3103	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3104	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3105	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3121	D0GB104ZA041	C 100KOHM ,J, 1/16W	
	R3123	D1HY2204A012	22OHM , 1/16W	
	R3127	D0GA220JA023	C 22OHM ,J, 1/16W	
	R3132	D0GB103JA072	10KOHM ,J, 1/16W	
	R3141	D0GF750JA048	75OHM ,J, 1/16W	
	R3157	D1HY2204A012	22OHM , 1/16W	
	R3163	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R3164	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R3167	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3168	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3171	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3172	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3173	D0GB104ZA041	C 100KOHM ,J, 1/16W	
	R3179	D0GA331JA023	C 330OHM ,J, 1/16W	
	R3180	D0GA331JA023	C 330OHM ,J, 1/16W	
	R3181	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3182	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3183	D0GD750JA052	C 75OHM ,J, 1/16W	
	R3184	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3185	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3188	D0GB104ZA041	C 100KOHM ,J, 1/16W	
	R3189	D0GB104ZA041	C 100KOHM ,J, 1/16W	
	R3193	D0GA220JA023	C 22OHM ,J, 1/16W	
	R3201	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3231	D0GB103JA072	10KOHM ,J, 1/16W	
	R3233	D0GB203ZA038	20KOHM ,Z, 1/16W	
	R3234	D0GB203ZA038	20KOHM ,Z, 1/16W	
	R3237	D0GB473JA072	C 47KOHM ,J, 1/16W	
	R3238	D0GB473JA072	C 47KOHM ,J, 1/16W	
	R3871	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3966	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4702	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4708	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4709	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4710	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4711	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4712	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4715	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4721	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4722	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4723	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4724	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4725	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4728	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4732	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4734	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4735	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4736	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4737	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4738	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4739	D0GA220JA023	C 22OHM ,J, 1/16W	
	R4744	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4745	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4746	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4747	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4748	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4749	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4750	D0GA680JA023	C 68OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4751	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4752	D1BA1600A023	160OHM ,J, 1/16W	
	R4753	D1BA82R0A014	82OHM ,J, 1/16W	
	R4763	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4764	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4765	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4766	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4767	D0GA392JA023	C 3.9KOHM ,J, 1/16W	
	R4770	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4771	D0GA152JA023	C 1.5KOHM ,J, 1/16W	
	R4772	D0GA152JA023	C 1.5KOHM ,J, 1/16W	
	R4774	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4775	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4776	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4777	D0GA680JA023	C 68OHM ,J, 1/16W	
	R4780	D0GA121JA023	C 120OHM ,J, 1/16W	
	R4788	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4794	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4795	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4796	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4797	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4798	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4799	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R4900	D0GFR00J0005	C 0OHM ,J, 1/16W	
	R4901	D1HY1014A022	100OHM , 1/16W	
	R4906	D0GA822JA023	8.2KOHM ,J, 1/16W	
	R4907	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4908	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4913	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4914	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4955	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4956	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4973	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4974	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4975	D0GF122JA048	C 1.2KOHM ,J, 1/16W	
	R4976	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4977	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4980	D0GB332JA072	3.3KOHM ,J, 1/16W	
	R4981	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4982	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5002	D0GA683JA023	C 68OHM ,J, 1/16W	
	R5003	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5006	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R5007	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R5009	D1BA5602A023	C 56KOHM ,J, 1/16W	
	R5012	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R5030	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5100	D0GA101JA023	C 100OHM ,J, 1/16W	
	R5101	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5102	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5104	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5152	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R5175	D0GA680JA023	C 68OHM ,J, 1/16W	
	R5181	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5312	D0GD100JA059	C 10OHM ,J, 1/16W	
	R5313	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R5315	D1BA1402A023	C 14KOHM , 1/16W	
	R5316	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R5317	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5318	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R5319	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5320	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5321	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5322	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5400	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R5401	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R5402	D0GB911ZA037	C 910OHM , 1/16W	
	R5403	D1BB2871A106	C 910OHM , 1/16W	
	R5420	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R5421	D1BA3302A023	C 33KOHM ,J, 1/16W	
	R5422	D0GB911ZA037	C 910OHM , 1/16W	
	R5423	D1BB4871A106	C 4.87kOHM , 1/16W	
	R5441	D0GAR00J0005	C 0OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5442	D1BB1301A195	C 1.3KOHM , 1/16W	
	R5443	D1BB7501A195	C 7.5KOHM , 1/16W	
	R6726	D0GA681JA023	C 680OHM ,J, 1/16W	
	R6727	D0GA681JA023	C 680OHM ,J, 1/16W	
	R6731	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R6732	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R7101	D0GF105JA048	C 1MOHM ,J, 1/10W	
	R7102	D0GF105JA048	C 1MOHM ,J, 1/10W	
	R7103	D0GF105JA048	C 1MOHM ,J, 1/10W	
	R7104	D0B1106JA033	10MOHM ,J, 1W	
⚠	R7201	ERX1SJR22	0.22OHM ,J, 1W	
⚠	R7202	ERX1SJR22	0.22OHM ,J, 1W	
	R7203	D0GD104JA052	C 100KOHM ,J, 1/16W	
	R7204	D0GD101JA059	C 100OHM ,J, 1/4W	
	R7205	D0GD101JA052	C 100OHM ,J, 1/4W	
	R7206	D0GD220JA059	C 10OHM ,J, 1/4W	
	R7207	D0GD104JA052	C 100KOHM ,J, 1/16W	
⚠	R7208	ERX1SJR22	0.22OHM ,J, 1W	
	R7212	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7219	D0GD513JA052	C 51KOHM ,J, 1/16W	
	R7220	D0GD223JA052	C 22KOHM ,J, 1/16W	
	R7224	D1BD8203A066	C 820KOHM , 1/16W	
	R7225	ERJ8ENF1504	C 1.5MOHM ,J, 1/16W	
	R7226	ERJ8ENF1504	C 1.5MOHM ,J, 1/16W	
	R7227	ERJ8ENF1504	C 1.5MOHM ,J, 1/16W	
	R7228	ERJ8ENF1504	C 1.5MOHM ,J, 1/16W	
	R7229	D1BD2003A066	C 200KOHM , 1/16W	
	R7230	D1BD4422A066	C 44.2KOHM , 1/16W	
	R7231	D1BD4303A066	C 430KOHM , 1/16W	
	R7232	D1BD3603A066	C 360KOHM , 1/16W	
	R7234	D1BD8203A066	C 820KOHM , 1/16W	
	R7302	D0GD101JA059	C 100OHM ,J, 1/4W	
	R7303	D0GD101JA059	C 100OHM ,J, 1/4W	
	R7304	D0AF2R2JA112	2.2OHM ,J, 1/2W	
	R7305	D0AF151JA112	150OHM ,J, 1/2W	
	R7306	D0GD222JA052	2.2KOHM ,J, 1/16W	
	R7307	D0GD561JA052	560OHM ,J, 1/16W	
	R7308	D0GD561JA052	560OHM ,J, 1/16W	
	R7312	D0AF222JA112	2.2KOHM ,J, 1/2W	
	R7314	D0GD104JA052	C 100KOHM ,J, 1/16W	
	R7315	D0GD222JA052	C 2.2KOHM ,J, 1/16W	
	R7317	D0GD223JA052	C 22KOHM ,J, 1/16W	
	R7318	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7319	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7320	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7321	D0GD100JA059	C 10OHM ,J, 1/4W	
	R7322	D0GD100JA059	C 10OHM ,J, 1/4W	
	R7323	D0GD223JA052	C 22KOHM ,J, 1/16W	
	R7324	D0GD223JA052	C 22KOHM ,J, 1/16W	
	R7401	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7402	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7403	D0GD472JA052	C 4.7KOHM ,J, 1/16W	
	R7404	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7405	D0GD222JA052	C 2.2KOHM ,J, 1/16W	
	R7406	D1BD3321A066	C 3.32KOHM , 1/16W	
	R7407	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7408	D1BD1822A066	C 18.2KOHM , 1/16W	
	R7409	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7410	D0GD153JA052	C 15KOHM ,J, 1/16W	
	R7411	D0GD104JA052	C 100KOHM ,J, 1/16W	
	R7412	D0GD153JA052	C 15KOHM ,J, 1/16W	
	R7416	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7417	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7420	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7421	D0GD224JA052	220KOHM ,J, 1/16W	
	R8008	D0GA331JA023	C 330OHM ,J, 1/16W	
	R8009	D0GA1R1JA023	1.1OHM ,J, 1/16W	
	R8100	D1BB2001A197	C 2KOHM , 1/16W	
	R8101	D1BB1051A087	1.05KOHM , 1/16W	
	R8111	D1BB2001A197	C 2KOHM , 1/16W	
	R8112	D1BB1961A087	C 1.96KOHM , 1/16W	
	R8200	D1BA2400A023	C 240OHM , 1/16W	
	R8203	D1BA2700A023	270OHM , 1/16W	

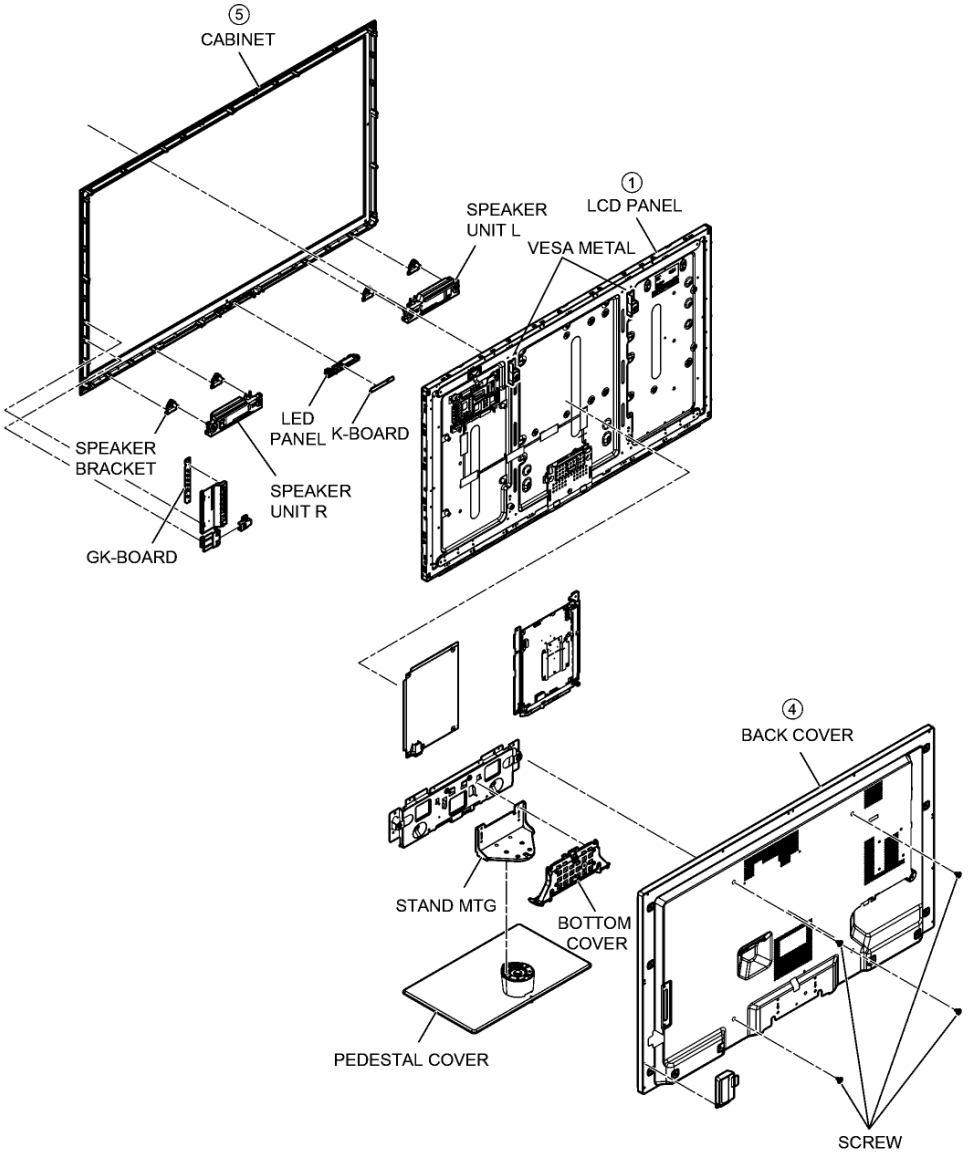
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8204	D1BA2700A023	270OHM , 1/16W	
	R8205	D1BA2700A023	270OHM , 1/16W	
	R8206	D1BA2700A023	270OHM , 1/16W	
	R8207	D1BA2700A023	270OHM , 1/16W	
	R8208	D1BA2700A023	270OHM , 1/16W	
	R8217	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8218	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8219	D1BA2400A023	C 240OHM , 1/16W	
	R8220	D1BA2400A023	C 240OHM , 1/16W	
	R8221	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8230	D1BA2700A023	270OHM , 1/16W	
	R8231	D1BA2700A023	270OHM , 1/16W	
	R8232	D1BA2700A023	270OHM , 1/16W	
	R8233	D1BA2700A023	270OHM , 1/16W	
	R8234	D0GA470JA023	C 47OHM ,J, 1/16W	
	R8235	D0GA470JA023	C 47OHM ,J, 1/16W	
	R8236	D0GA470JA023	C 47OHM ,J, 1/16W	
	R8237	D0GA470JA023	C 47OHM ,J, 1/16W	
	R8238	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8240	D1HY2208A012	C 22OHM ,J, 1/16W	
	R8241	D1HY2204A012	C 22OHM ,J, 1/16W	
	R8242	D1HY2204A012	C 22OHM ,J, 1/16W	
	R8243	D1HY2204A012	C 22OHM ,J, 1/16W	
	R8300	D0GA471JA023	C 470OHM ,J, 1/16W	
	R8301	D1BA6201A023	C 6.2KOHM , 1/16W	
	R8302	D0GA360JA023	C 36OHM ,J, 1/16W	
	R8303	D0GA360JA023	C 36OHM ,J, 1/16W	
	R8304	D0GA360JA023	C 36OHM ,J, 1/16W	
	R8305	D0GA360JA023	C 36OHM ,J, 1/16W	
	R8418	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8441	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8450	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8451	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8453	D1BA3742A014	C 37.4KOHM , 1/16W	
	R8454	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8455	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8456	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8457	D1BA1822A014	C 18.2KOHM , 1/16W	
	R8458	D1BA3742A014	C 37.4KOHM , 1/16W	
	R8459	D1BA3742A014	C 37.4KOHM , 1/16W	
	R8469	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8470	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8472	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8480	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8482	D1BA6200A014	C 620OHM , 1/16W	
	R8483	D1BA30R0A014	C 30OHM, J, 1/10W	
	R8486	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8487	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8488	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8490	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8493	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8498	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8505	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8515	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8516	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8519	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8522	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8523	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8524	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8601	D1BA75R0A023	75OHM , 1/16W	
	R8602	D1BA75R0A023	75OHM , 1/16W	
	R8603	D1BA75R0A023	75OHM , 1/16W	
	R8604	D1BA75R0A023	75OHM , 1/16W	
	R8611	D1BA2491A023	2.49KOHM , 1/16W	
	R8612	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8613	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8614	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8616	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8617	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8620	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8622	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8623	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8624	D0GA680JA023	C 68OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8625	D0GA152JA023	C 1.5KOHM ,J, 1/16W	
	R8626	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8627	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8629	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8630	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8631	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8634	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8635	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8636	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8660	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8661	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8662	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8663	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8664	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8665	D0GA560JA023	C 56KOHM ,J, 1/16W	
	R8666	D1HY1038A012	C 10KOHM ,J, 1/16W	
	R8667	D1HY5604A012	56OHM , 1/16W	
	R8668	D1HY5604A012	56OHM , 1/16W	
	R8669	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8673	D1BB1200A055	C 100KOHM ,J, 1/16W	
	R8674	D1BB2000A055	120OHM , 1/16W	
	R8755	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8797	D1BA1200A023	120OHM , 1/16W	
	R8798	D1BA56R0A023	C 56OHM ,J, 1/16W	
	R8800	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8801	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8802	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8803	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8817	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8821	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8829	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8850	D0GA331JA023	C 330OHM ,J, 1/16W	
	R8851	D1BB7151A106	7.15KOHM , 1/16W	
	R8852	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8853	D0GA182JA023	C 1.8KOHM ,J, 1/16W	
	R8854	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8858	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8859	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8870	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8871	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8872	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8873	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8874	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8875	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8876	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8877	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8878	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8880	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8881	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8882	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8883	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8885	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8887	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8902	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8904	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8909	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R8910	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8911	EXB2HV121JV	120OHM ,J, 1/16W	
	R9004	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9005	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9006	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9007	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9008	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9009	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9010	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9011	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9012	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9013	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9014	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9015	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9074	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9100	D1BA2400A023	C 240OHM , 1/16W	
	R9104	D0GA103JA023	C 10KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R9110	D0GA182JA023	C 1.8KOHM ,J, 1/16W	
	R9112	D0GA182JA023	C 1.8KOHM ,J, 1/16W	
	R9115	D0GA221JA023	C 220OHM ,J, 1/16W	
	R9121	D0GD100JA052	C 10OHM ,J, 1/4W	
	R9122	D0GD100JA052	C 10OHM ,J, 1/4W	
	R9123	D0GD100JA052	C 10OHM ,J, 1/4W	
	R9124	D0GD100JA052	C 10OHM ,J, 1/4W	
	R9125	D0GD100JA052	C 10OHM ,J, 1/4W	
	R9129	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R9250	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R9251	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R9252	D1HY2204A012	22OHM , 1/16W	
	R9253	D1HY2204A012	22OHM , 1/16W	
	R9254	D1HY2204A012	22OHM , 1/16W	
	R9255	D1HY2204A012	22OHM , 1/16W	
	R9256	D1HY2204A012	22OHM , 1/16W	
	R9257	D1HY2204A012	22OHM , 1/16W	
	R9258	D1HY2204A012	22OHM , 1/16W	
	R9259	D1HY2204A012	22OHM , 1/16W	
	R9260	D1HY2204A012	22OHM , 1/16W	
	R9261	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9262	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9263	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9264	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9265	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9266	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9267	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9268	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9269	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9270	D1BA49R9A023	C 49.9OHM , 1/16W	
	R9271	D1BA49R9A023	C 49.9OHM , 1/16W	
	R9300	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R9301	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R9302	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R9307	D1BB2001A197	C 2KOHM , 1/16W	
	R9309	D1BB2001A197	C 2KOHM , 1/16W	
	R9311	D1BB6800A087	680OHM , 1/16W	
	R9312	D1BB2801A087	2.8KOHM , 1/16W	
	R9350	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R9351	D1HY2204A012	22OHM , 1/16W	
	R9352	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R9353	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R9354	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R9356	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R9357	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R9359	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R9360	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R9361	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R9363	D0GA151JA023	C 150OHM ,J, 1/16W	
	R9364	D0GA151JA023	C 150OHM ,J, 1/16W	
	R9365	D0GA151JA023	C 150OHM ,J, 1/16W	
	R9371	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R9372	D0GA103JA023	C 10KOHM ,J, 1/16W	
		TRANSFORMERS		
⚠	T7201	G4DYA0000366	TRANSFORMER	
⚠	T7301	G4DYA0000372	TRANSFORMER	
⚠	T8600	G5BYC0000040	TRANSFORMER	
		OTHERS		
	A02	K1KY16BA0394	CONNECTOR	
	A10	K1KA10B00218	CONNECTOR	
	A12	K1KY04BA0387	CONNECTOR	
	A20	K1FY105E0017	CONNECTOR	
⚠	CF7101	D4CA94R0A001	TERMISTOR	
⚠	CF7102	D4CA94R0A001	TERMISTOR	
	CN0100	K1KA14A00248	CONNECTOR	
	CN8660	K1NA12E00016	CONNECTOR	
	D2800A	B3AGB0000065	LED	
⚠	F7101	K5E502YY0001	FUSE	
	FL9056	J0ZZB0000147	COIL	
	FL9057	J0ZZB0000147	COIL	
	FL9058	J0ZZB0000147	COIL	
	FL9059	J0ZZB0000147	COIL	
	FL9060	J0ZZB0000147	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	FL9061	J0ZZB0000147	COIL	
	FL9068	J0ZZB0000147	COIL	
	FL9069	J0ZZB0000147	COIL	
	FL9070	J0ZZB0000147	COIL	
	FL9071	J0ZZB0000147	COIL	
	FL9072	J0ZZB0000147	COIL	
	FL9073	J0ZZB0000147	COIL	
	GK4	K1KA03BA0061	CONNECTOR	
	JK3001	K2HE2YYB0001	AV TERMINAL	
	JK3005	K1FY315B0002	AV TERMINAL	
	JK3008	K2HE2YYB0002	AV TERMINAL	
	JK3051	K2HC1YYB0079	AV TERMINAL	
	JK4700	K1FY119E0049	CONNECTOR	
	JK4701	K1FY119E0049	CONNECTOR	
	JK4702	K1FY119E0049	CONNECTOR	
	JK4703	K1FY119E0049	CONNECTOR	
⚠	JK7101	K2AAYB000006	INLET/OUTLET (FOR AC POWER SOURCE)	
	JK8450	K1FY104B0081	AV TERMINAL	
	JK8451	K1FY104B0081	AV TERMINAL	
	JK8452	K1FY104B0081	AV TERMINAL	
	JK8600	K2LC1YYE0003	AV TERMINAL	
	JS0043	D0GAR00J0005	CHIP RESISTOR	
	JS0057	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	
	TC01A	K1MY51BA0526	CONNECTOR	
	TC02A	K1MY41BA0526	CONNECTOR	
⚠	TU6705	ENVS9302D5F	TUNER	
	X8300	H0J245500110	CRYSTAL RESONATOR	
	X8450	H0J120500062	CRYSTAL OSC	
	X8600	H0J250500120	CRYSTAL OSCILLATOR	
	X9100	H0J270500166	CRYSTAL RESONATOR	
	ZA0050	K4AD01D00008	TERMINAL	
	ZA0051	K4AD01D00008	TERMINAL	
	ZA0052	K4AD01D00008	TERMINAL	
	ZA7101	K4AD01A00003	TERMINAL	
	ZA7103	K4AD01A00003	TERMINAL	

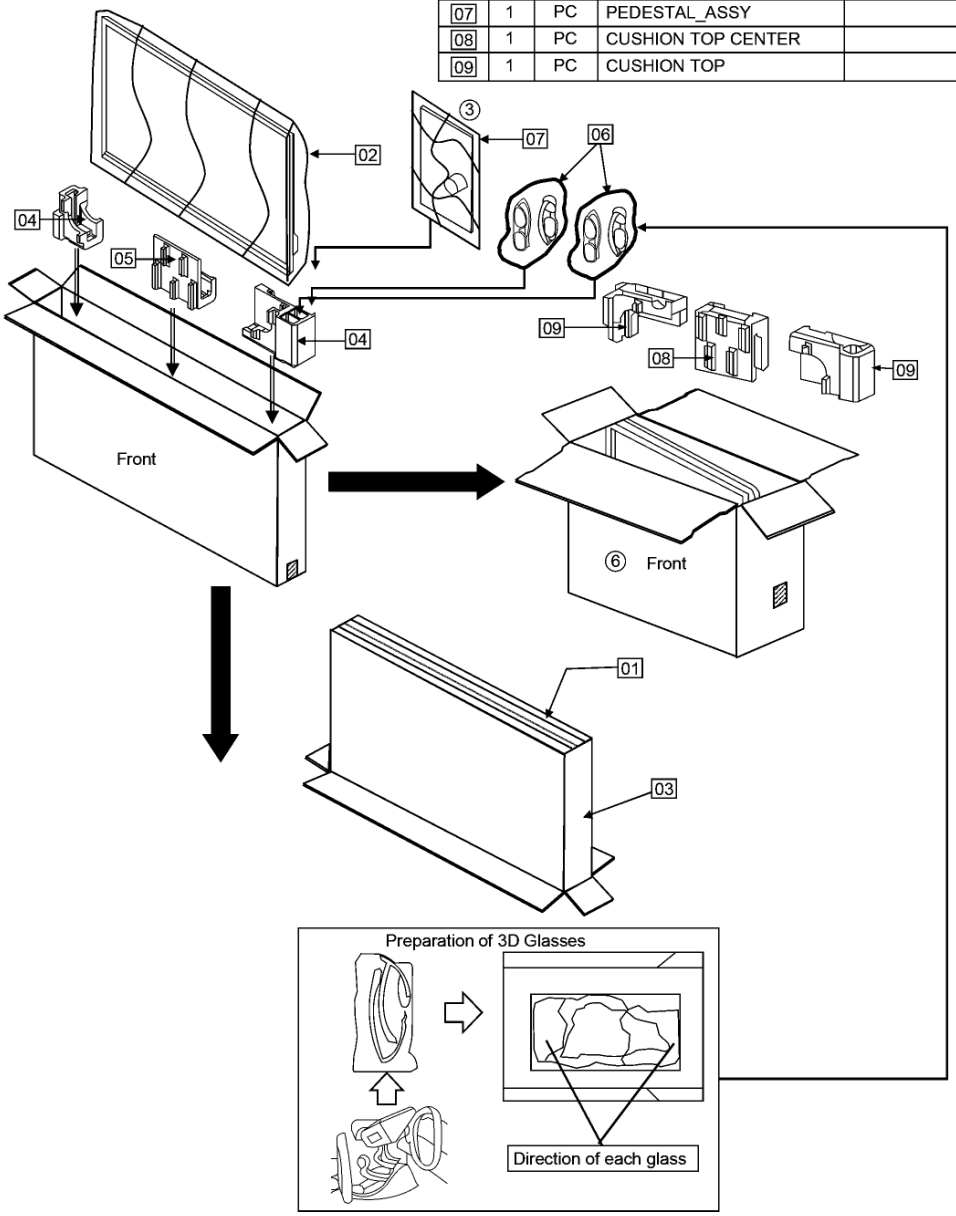
Model No. : TH-L47ET5M Parts Location



Model No. : TH-L47ET5M 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 3D glasses at bottom cushion
5. Insert pedestal at bottom cushion

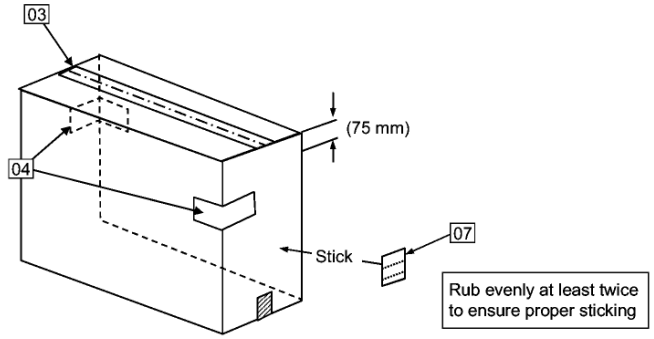
No.	Qty	UOM	DESCRIPTION	Remarks
01	1.45	MT	PP TAPE	1450 mm x 1
02	1	PC	SET COVER	
03	1	PC	PACKING_CASE	
04	1	PC	CUSHION BOTTOM	
05	1	PC	CUSHION BOTTOM CENTER	
06	4	PC	3D GLASSES	
07	1	PC	PEDESTAL_ASSY	
08	1	PC	CUSHION TOP CENTER	
09	1	PC	CUSHION TOP	

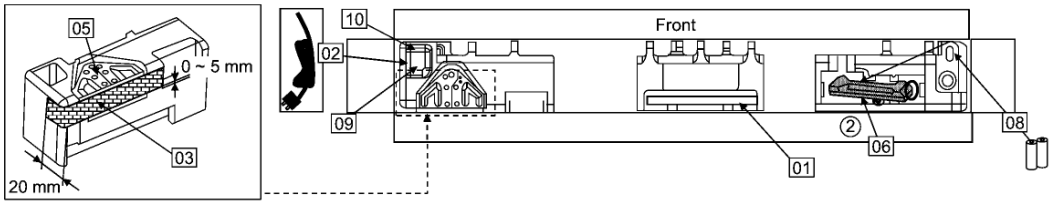


Model No. : TH-L47ET5M Packing Exploded View 2

No.	Qty	UOM	DESCRIPTION
01	1	PC	FAN BAG ASSY
02	1	PC	AC CORD
03	2	MT	PP TAPE (P/C = 1.45 m / Stand Mtg : 0.28 m)
04	2	PC	PACKING-CASE_LABEL
05	1	PC	STAND_ACC_ASSY
06	1	PC	REMOTE CONTROL UNITS
07	1	PC	LABEL COMBINATION
08	1	PC	BATTERIES
09	1	PC	COMPONENT CABLE
10	1	PC	AUDIO OUT CABLE

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-L47ET5M Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
⚠		K1HY05YY0022	WI-FI DONGLE CABLE		
⚠		K2CT2YY00090	AC CORD		
⚠		K2KYYYY00204	AV CABLE COMPONENT		
⚠		K2KYYYY00205	AV CBVS CABLE		
		L0EYAA000006	SPEAKER		
		L0EYAA000007	SPEAKER		
⚠	1	L5EDDYY00367	LCD PANEL		
	2	N2QAYB000750	REMOTE CONTROL		
		TBL5ZX03731	STAND ACESSORIES ASSY		
	3	TBL5ZX03881	PEDESTAL ASSY		
⚠		TBM4GC8551	MODEL NAME PLATE		
		TBX5ZA00601	KEY BUTTON		
		THEC1509	SCREW		
		THEJ036J	SCREW		
		THTD030J	SCREW		
		TKK5ZL50051	USB CABLE BRACKET		
		TKKL5521	M6 CAP		
		TKP5ZA13801	BOTTOM COVER		
		TKX5ZA02501	SPEAKER BRACKET		
		TPD4GA03451	TOP CUSHION		
		TPD4GA03461	BOTTOM CUSHION		
		TPD4GA03471	TOP CENTER CUSHION		
		TPD4GA03481A	BOTTOM CENTER CUSHION		
		TPE4GH033	SET COVER		
		TQZ4GB522	FAN BAG ASSY		
⚠		TSCFF0030005	LVDS FFC (51 PIN)		
⚠		TSCFF0030006	LVDS FFC (41 PIN)		
	4	TTU4GA0752	BACK COVER ASSY		
	5	TTY4GA0270	CABINET ASSY		
		TUX5ZX0011	WI FI METAL		
		TXFKK5Z0003	LED PANEL ASSY		
		TXFKK5Z0006	LED BRACKET ASSY		
	6	TXFPC01PFUMA	PACKING CASE ASSY		
		XSS5+16FJK	SCREW		
		XTV3+10JFJ	SCREW		
		XTW3+8TFJ	SCREW		
		XYN3+C6FJ	SCREW		
		XYN3+C8FJ	SCREW		
		XYN4+F25FJK	SCREW		
Electrical Replacement Part List					
	RTL	TXN/K1PWUA	K PRINT		
	RTL	TXN/P10NNUS	P PRINT		
	RTL	TXNGK1PWUA	GK PRINT		

Model No. : TH-L47ET5M Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	RTL	TZT/A10PLUK	A PRINT ASSY		