

# Service Manual

## LCD HDTV



Model No. **TC-L42E5X**

Chassis: LA35

Destination: USA

### **⚠ 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  $\infty$ .

### 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 $\mu$ 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.

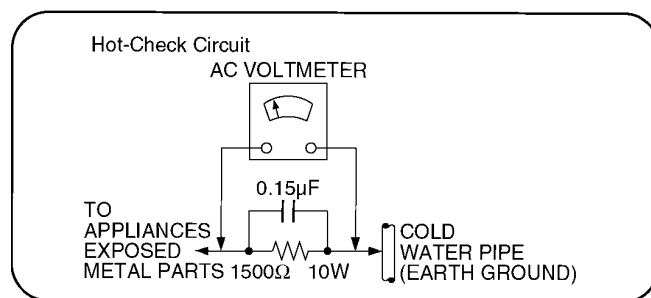


Figure 1

## 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).

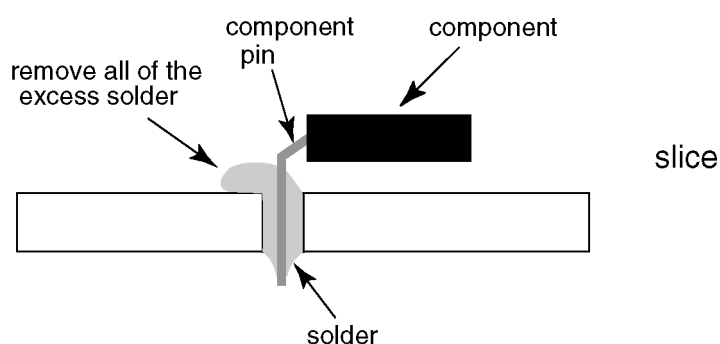
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

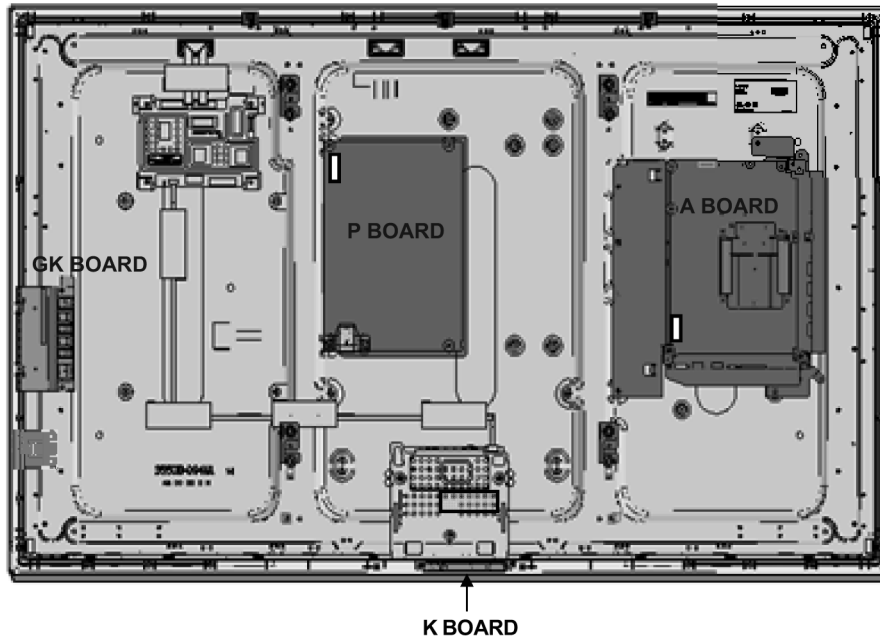
### Caution

- 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

<b>Power Source</b>	AC 110-127 V, 60 Hz		
<b>Power Consumption</b>			
<b>Rated Power Consumption</b>	85 W		
<b>Standby condition</b>	0.1 W		
<b>Display panel</b>			
<b>Aspect Ratio</b>	16:9		
<b>Visible screen size</b>	42" class (42 inches measured diagonally)		
<b>Number of pixels</b>	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]		
<b>Sound</b>			
<b>Speaker</b>	1-way 2 bottom SP System		
<b>Audio Output</b>	20 W [10 W + 10 W], (10% THD)		
<b>PC signals</b>	VGA, WVGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 64 kHz Vertical scanning frequency 59 - 61 Hz		
<b>Channel Capability-ATSC/NTSC (Digital/Analog)</b>	VHF/ UHF: 2 - 69, CATV: 1 - 135		
<b>Operating Conditions</b>	Temperature : 32°F - 95°F (0°C - 35°C) Humidity : 20 % - 80 % RH (non-condensing)		
<b>Connection Terminals</b>			
<b>VIDEO IN</b>	VIDEO:	RCA PIN Type × 1	1.0V [p-p] (75 Ω)
	AUDIO L - R	RCA PIN Type × 2	0.5V [rms]
<b>COMPONENT IN</b>	Y:	1.0 V [p-p] (including synchronization)	
	P <sub>B</sub> , P <sub>R</sub> :	± 0.35 V [p-p]	
	AUDIO L - R:	RCA PIN Type × 2	0.5 V [rms]
<b>HDMI 1-4</b>	TYPE A Connector × 4 • This TV supports 'HDMI Control 5' function.		
<b>USB</b>	USB 2.0 Type A connector × 2 (DC5V MAX500mA)		
<b>LAN (for IPTV)</b>	RJ45 (10BASE-T/100BASE-TX)		
<b>PC</b>	D-SUB 15 PIN:	R, G, B / 0.7 V [p-p] (75 Ω)	
		HD, VD / 1.0-5.0 V [p-p] (high impedance)	
<b>Card slot</b>	SD CARD slot × 1		
<b>DIGITAL AUDIO OUT</b>	PCM / Dolby Digital, Fiber Optic		
<b>FEATURES</b>	3D Y/C FILTER	CLOSED CAPTION	
	V-Chip	EASY IPTV	Vesa compatible
	VIERA IMAGE VIEWER	Media player	HDMI Control 5
<b>Dimensions (W x H x D)</b>			
<b>Including TV Stand</b>	39.3" × 25.6" × 9.8" (997 mm × 650 mm × 247 mm)		
<b>TV Set only</b>	39.3" × 23.8" × 2.1" (997 mm × 604 mm × 52 mm)		
<b>Mass</b>			
<b>Including TV stand</b>	37.5 lb. (17 kg) NET		
<b>TV Set only</b>	30.9 lb. (14 kg) NET		

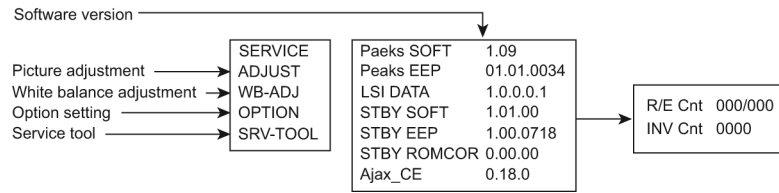
### Note

- 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

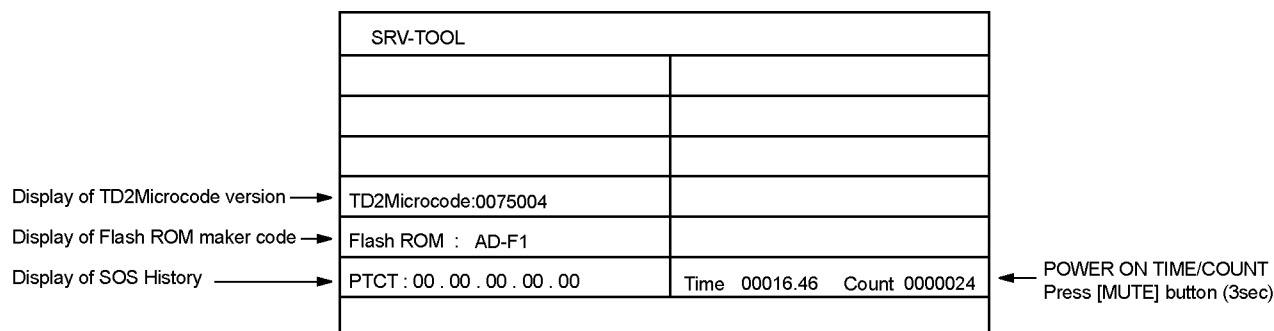
Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.



## 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.

#### 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	
Copyright Panasonic Corporation 2012.		

## 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:

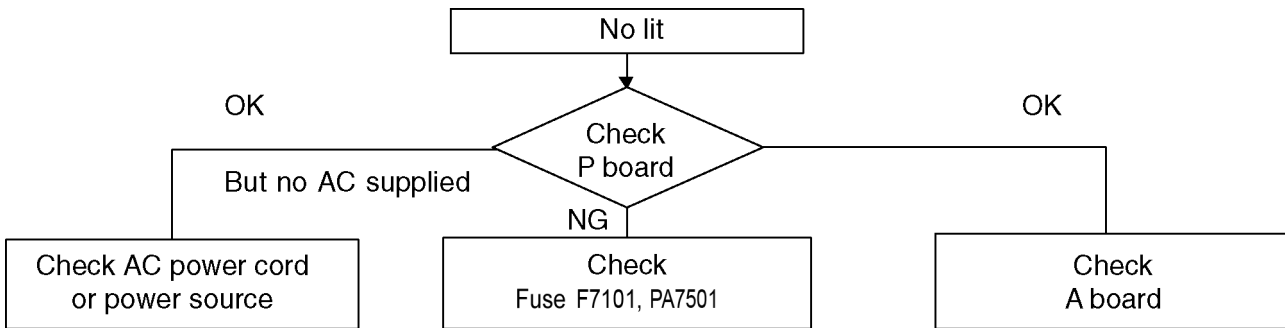
Priority	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	POWER_SOS	SOS from POWER Curcuit	3
3	SOUND_SOS	SOS from audio AMP	9

## 6.3. No Power

First check point

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

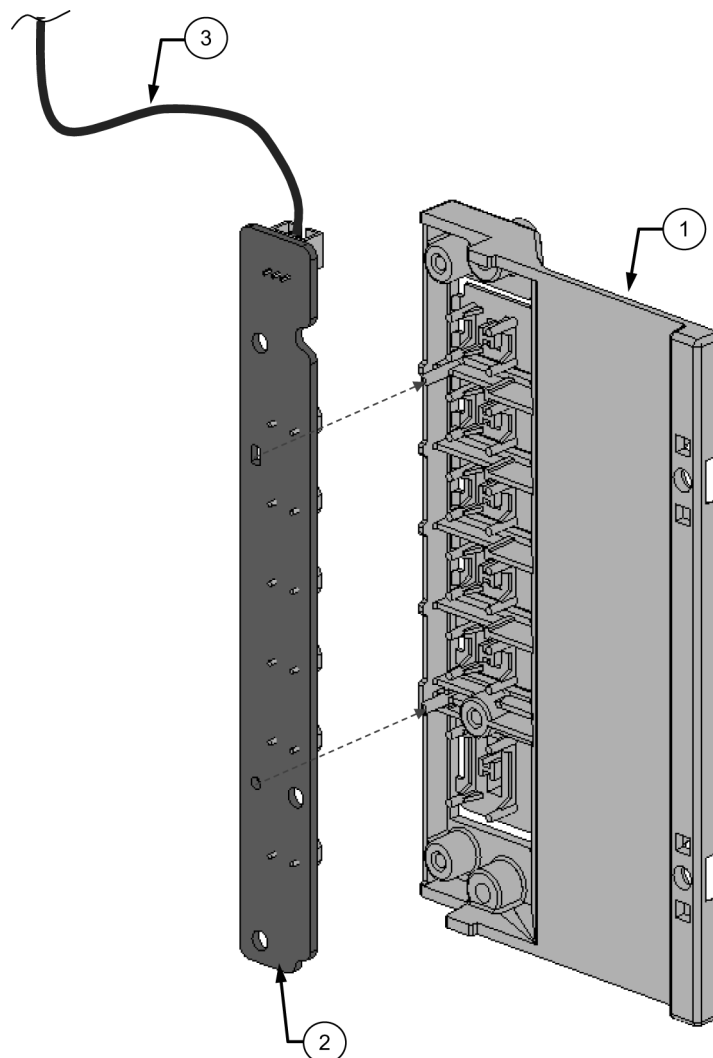
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



## 7 Disassembly and Assembly Instructions

### 7.1. Control Panel Preparation

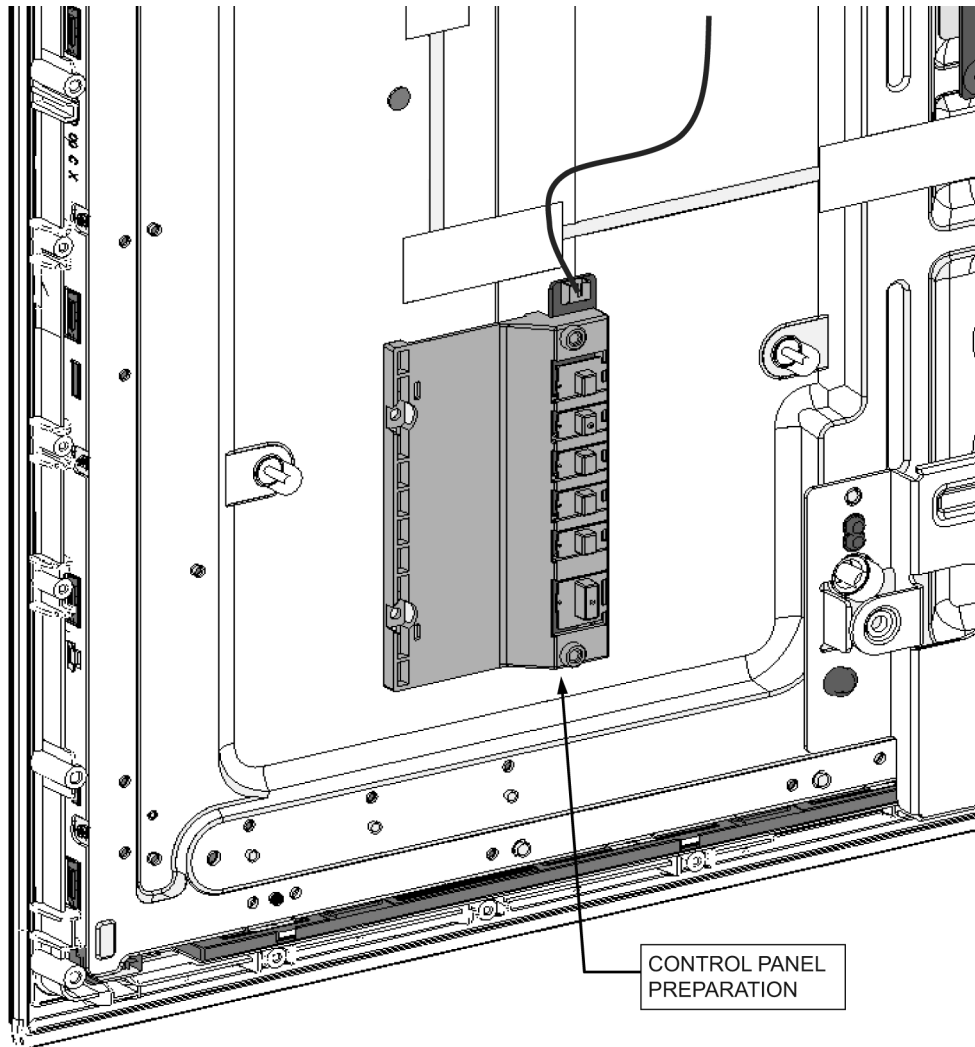
1. Fit the GK plate on the key button guide pins indicated by the pointed arrows.
2. Screw in the positions indicated using the corresponding torque.
3. Connect the cable to the GK plate connector.



No.	Part Num.	Quant.	Description
1	TBX5ZA00601	1	KEY_BUTTON
2	TXNGK1SLUU	1	GK PANEL COMPLETE FROM KATOLEC
3	TXJ/P4SLUU	1	CABLE ASSY (P4-LD/GK4)

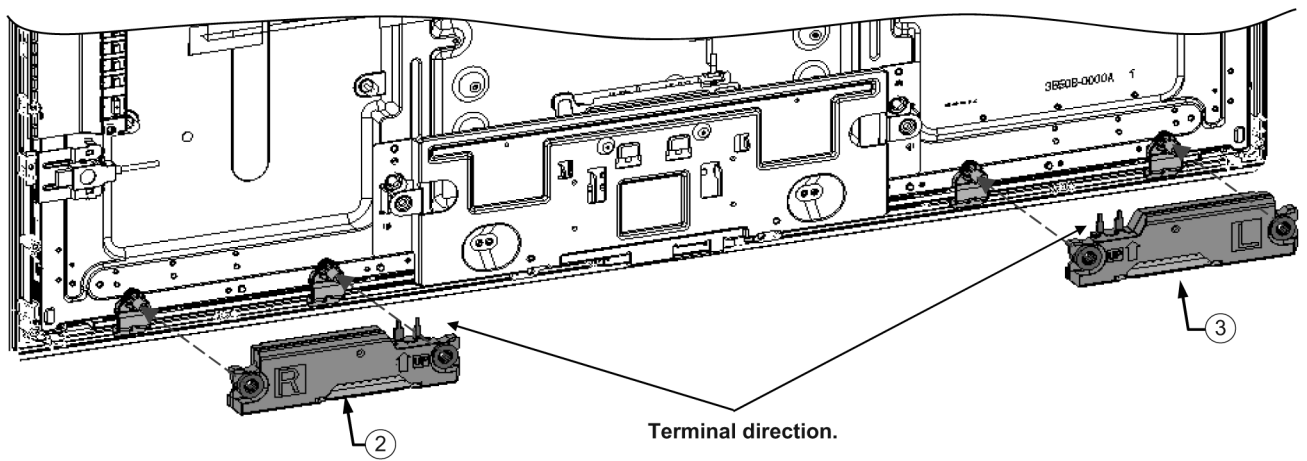
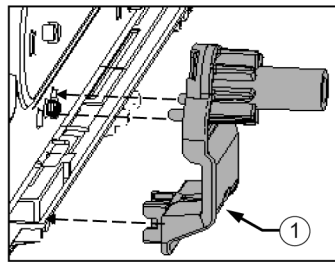
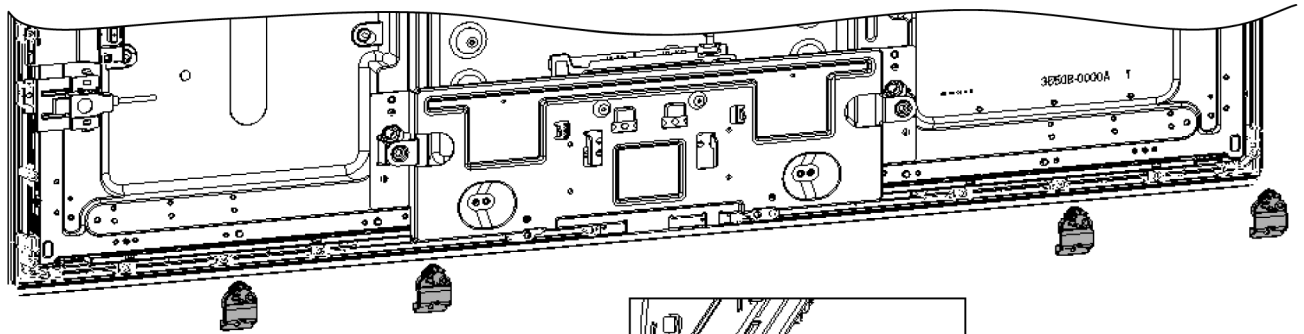
## 7.2. Control Panel Assembly

1. Place the control panel preparation on the cabinet guide pins, as indicated by the pointed arrows.
2. Screw in the positions indicated using the corresponding torque.



### 7.3. Speaker Assembly

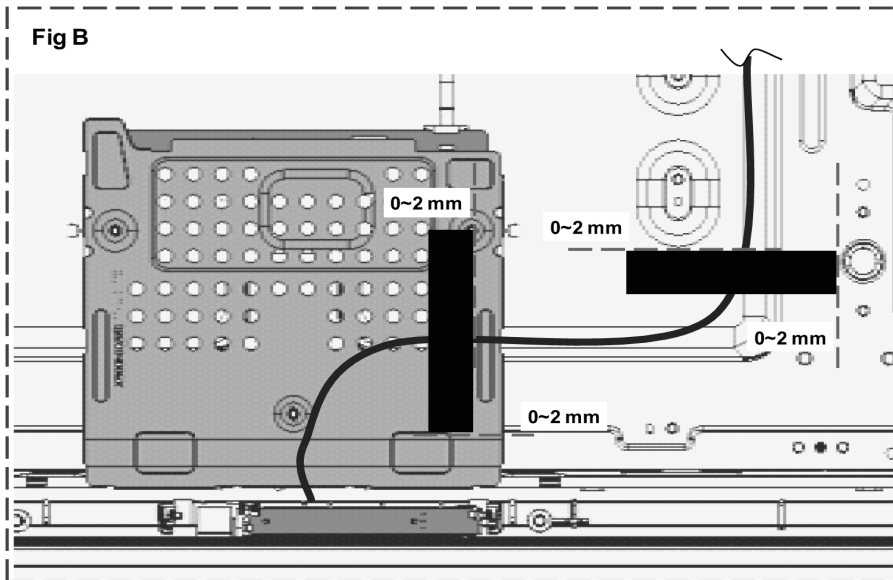
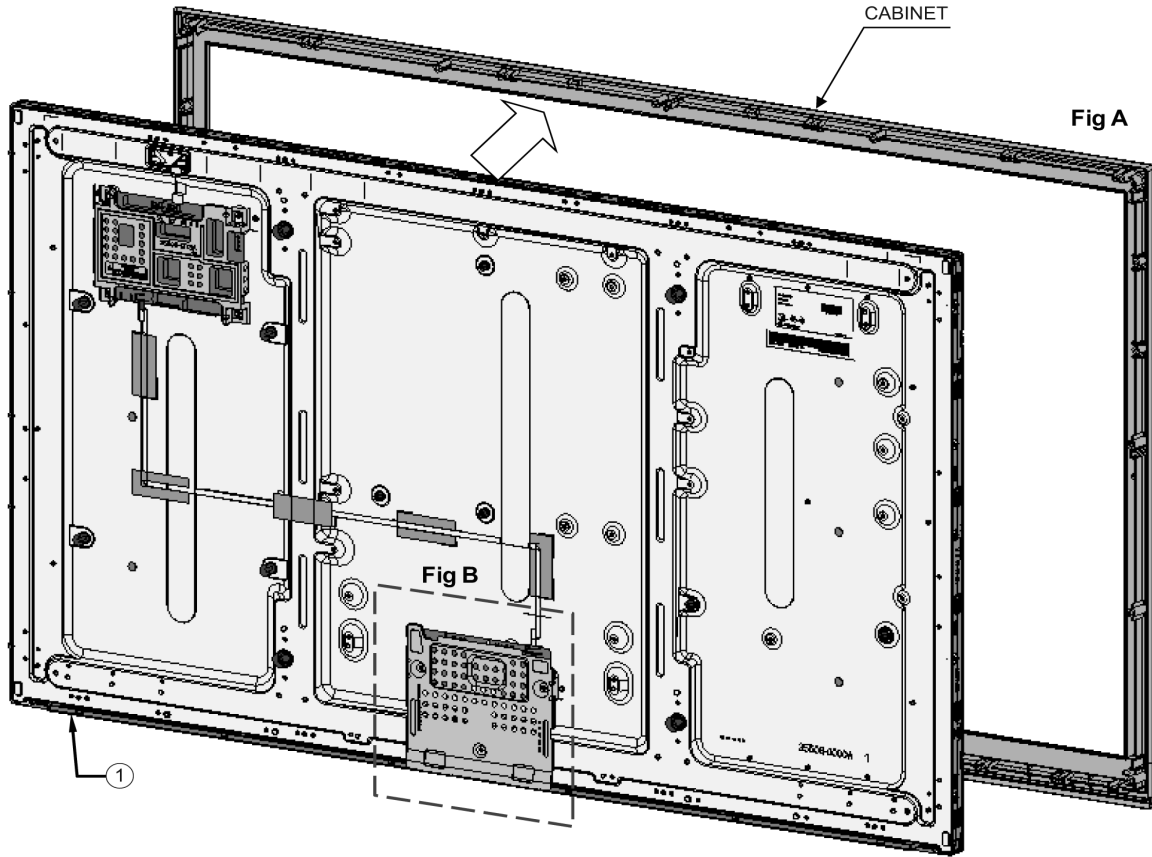
1. Fit the speaker brackets, inserting the bracket pins into the holes in the panel.
2. Screw in the positions indicated using the corresponding torque.
3. Insert the speaker in the speaker brackets.



No.	Part Num.	Quant.	Description
1	TKX5ZA02501	4	SPEAKER BRACKET
2	L0EYAA000007	1	SPEAKER UNIT R
3	L0EYAA000006	1	SPEAKER UNIT L

### 7.4. Panel Assembly

1. Fit the panel to the cabinet, handling it extremely carefully. Fig A
2. Once the panel has been fitted to the cabinet, pull the panel towards the cabinet until it meets the stops.
3. Take extreme care not to knock the cabinet with the corners of the panel.
4. Stick the tape on top of the plate K cable, as indicated in. Fig B

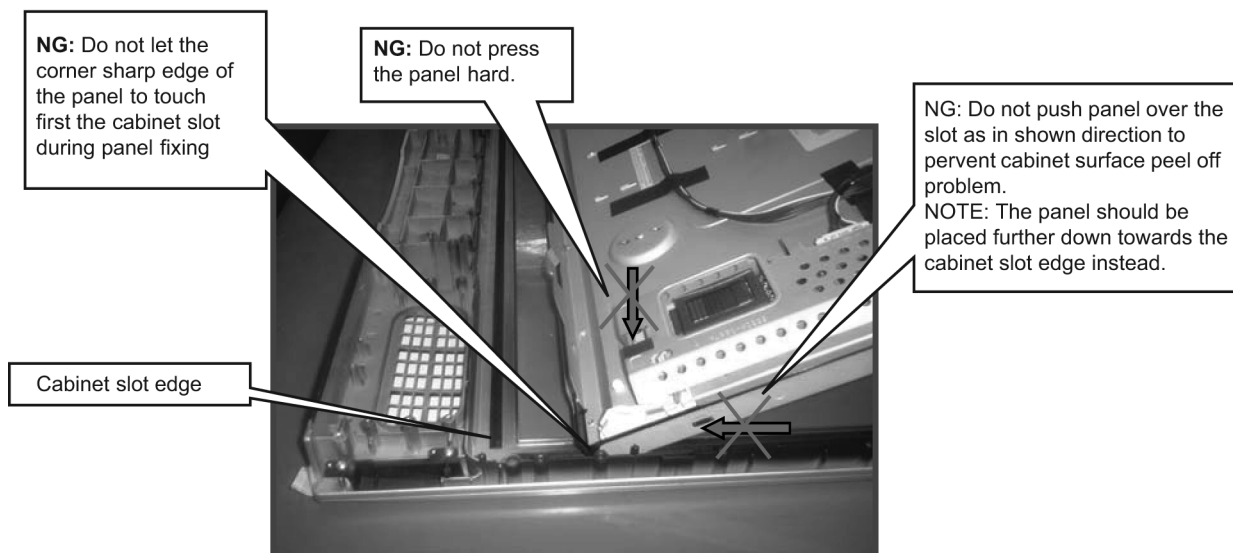
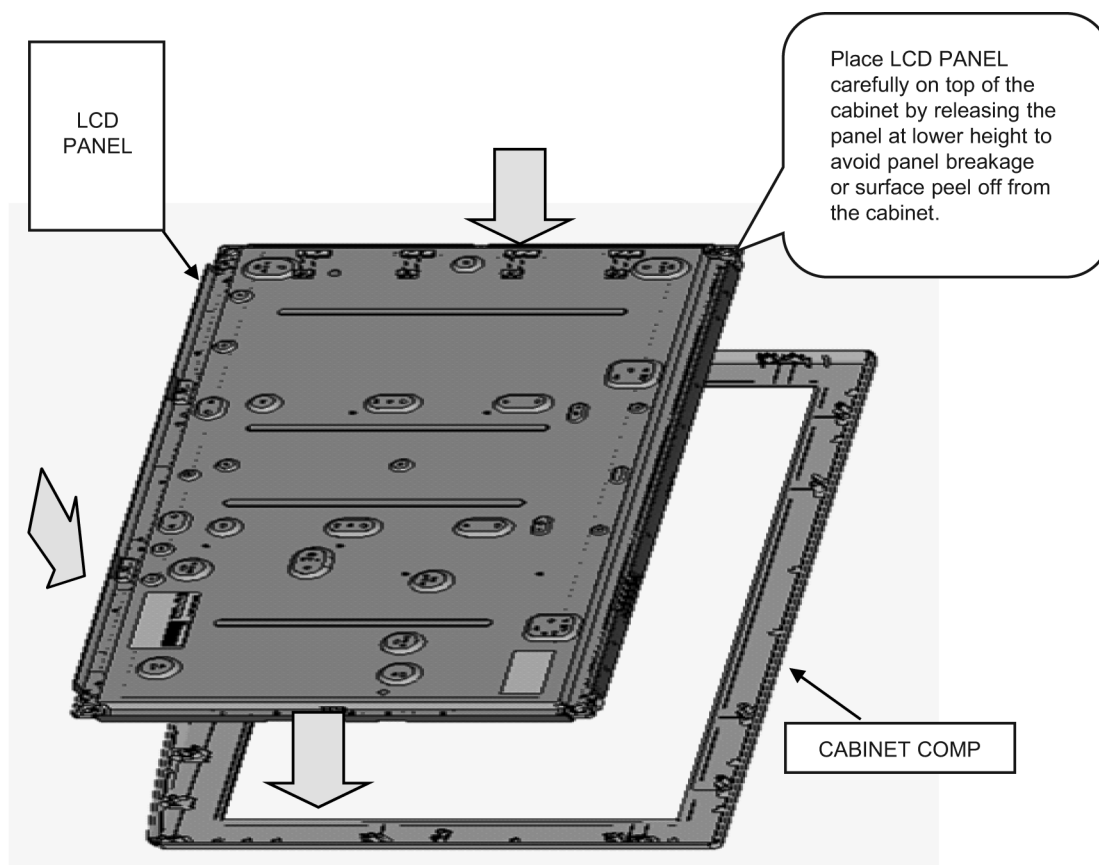


No.	Part Num.	Quant.	Description
1	L5EDDYY00359	1	LCD PANEL



## 7.5. LCD Panel Fixing & Handling Method

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

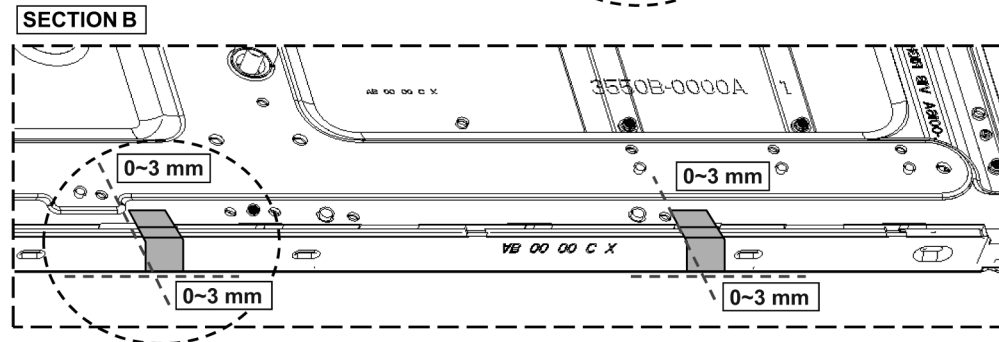
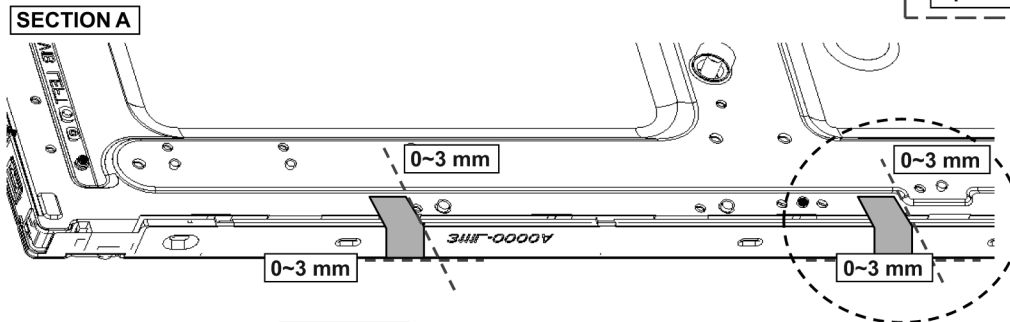
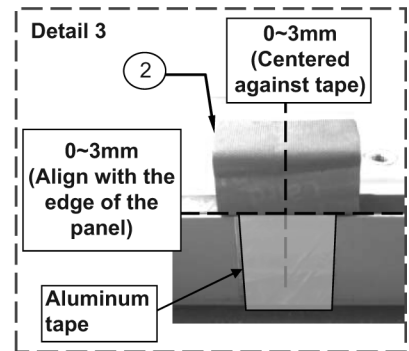
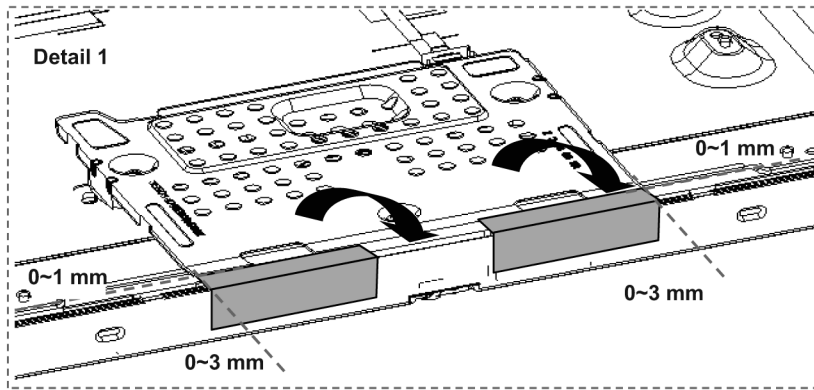
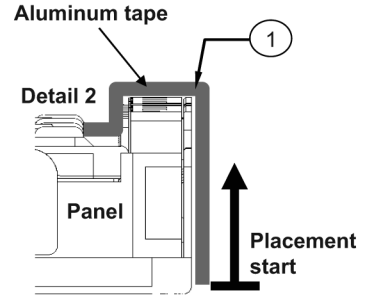
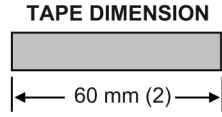
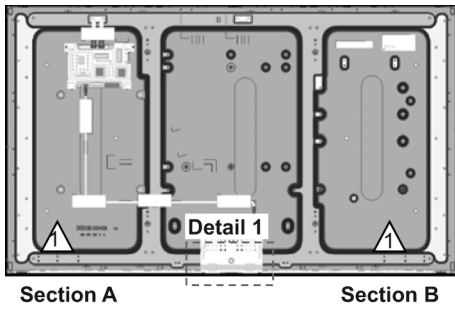


### Other general precautions

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.

## 7.6. Placing Black Tape

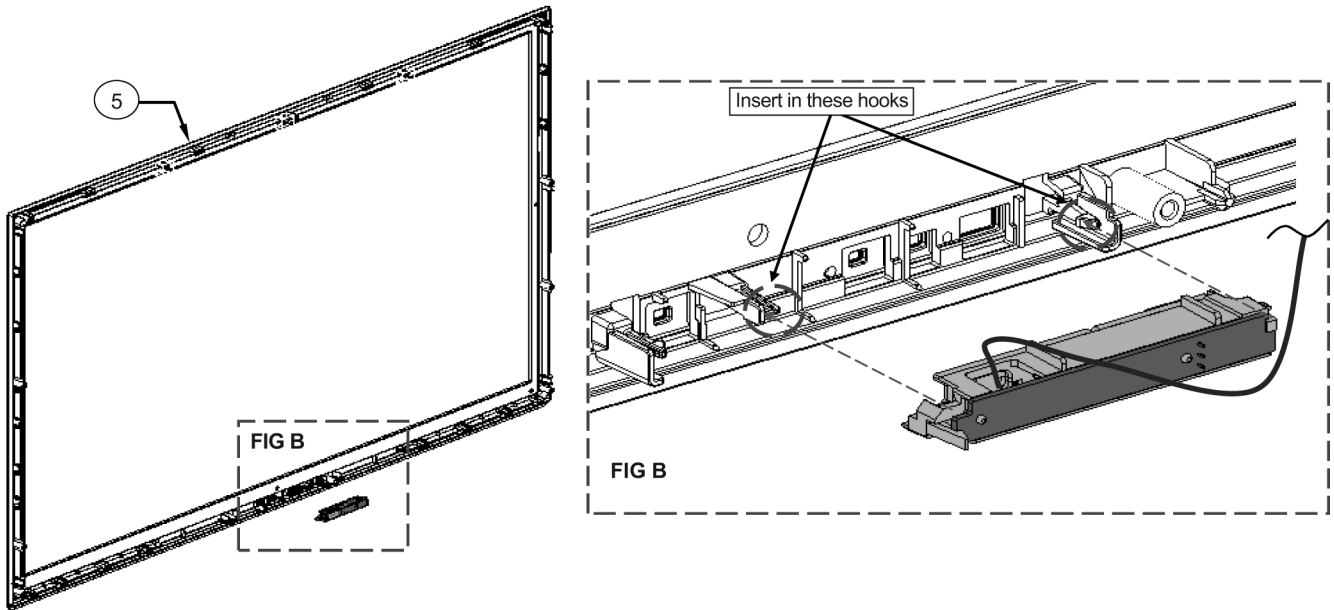
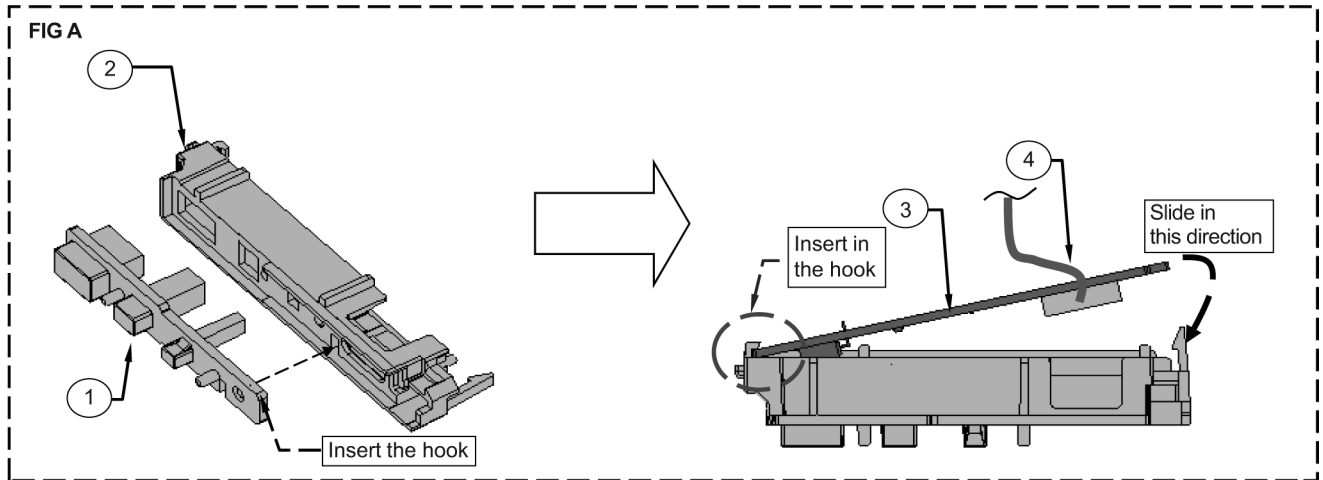
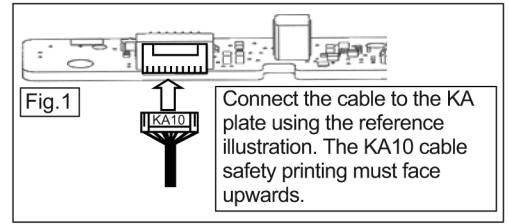
1. Place the black tape in the position indicated. See detail 1
2. Place the aluminium tape in the position indicated. See detail 2
3. Place the gasket in the position indicated, see dotted circles.



No.	Part Num.	Quant.	Description
1	TEWF097	4	ALUMI TAPE 15*40(PANEL LR)
2	TEWB763	2	GASKET (T12*W10*L20)

### 7.7. LED Panel Assembly

1. Prepare the LED panel as indicated, Fig A.
2. Assemble the prepared LED as shown in Fig B.

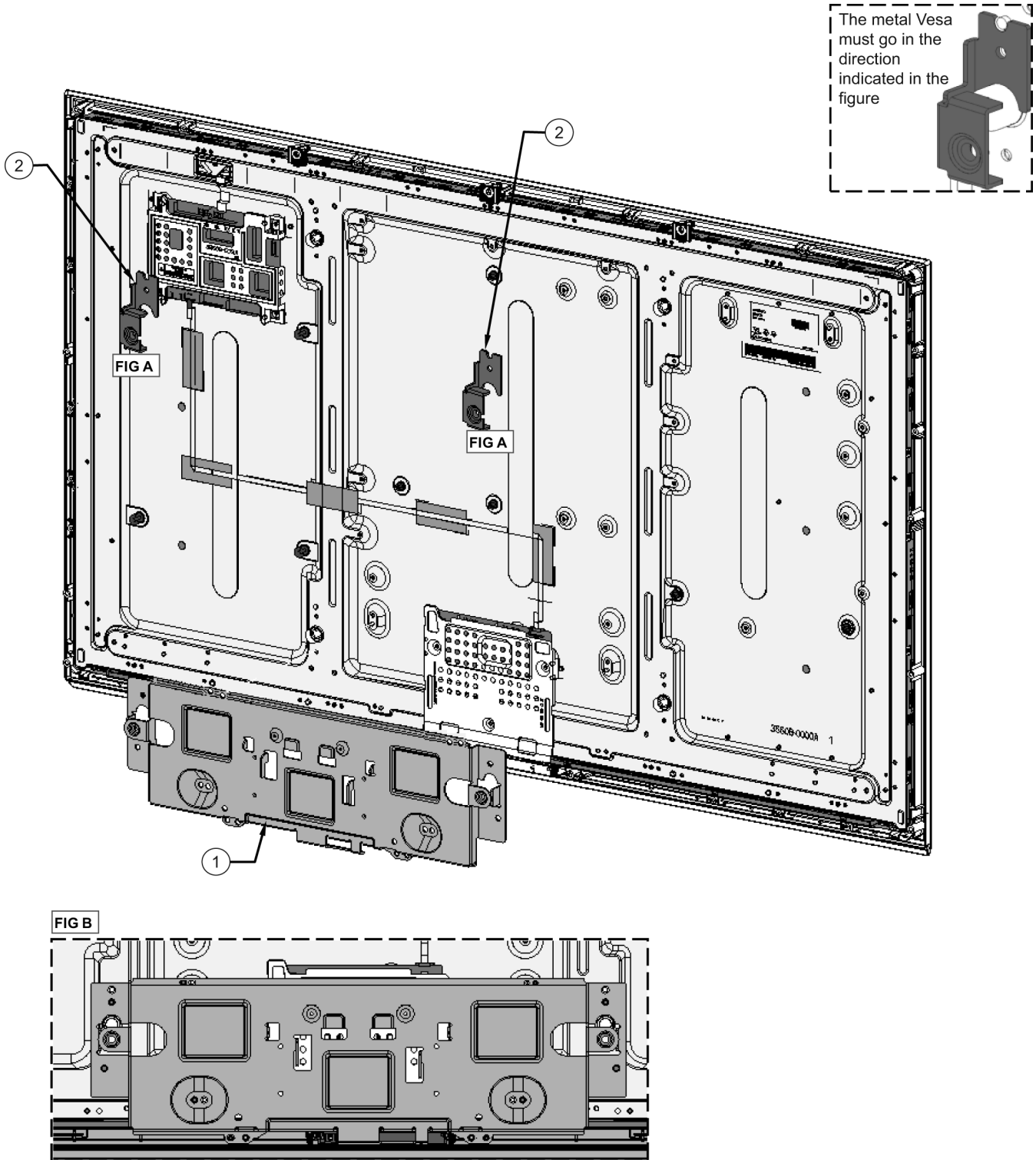


No.	Part Num.	Quant.	Description
1	TXFKK5Z0004	1	ASSY, LED PANEL
2	TXFKK5Z0006	1	ASSY, LED BRACKET
3	TXN/K1SKUUS	1	ASSY, K PANEL COMPLETE PAVCAP
4	TXJA10TCUU	1	WIRE (A10-K10)
5	TXFKY5Z0311	1	ASSY, CABINET

## 7.8. Screwing up Brackets

1. Place the metal Vesas in the positions indicated. Fig A
2. Place the bottom metal part in the position indicated. Fig B
3. Screw in the positions indicated using the corresponding torque.
4. Insert the clampers in the position indicated. Fig B

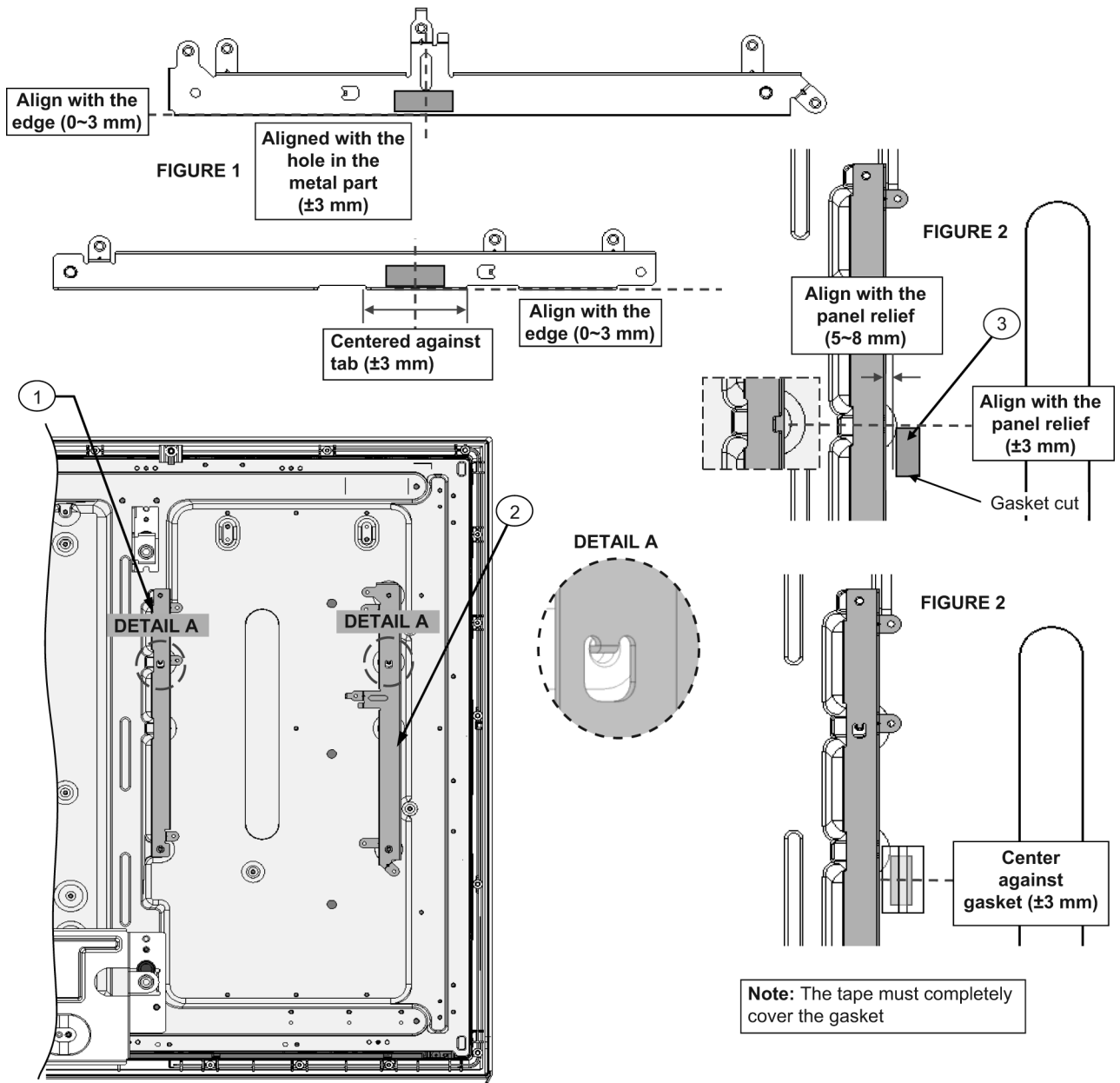
**Note:** Use metal part without (-1) for PP2, the next production will be received with (-1)



No.	Part Num.	Quant.	Description
1	TKZ5ZX5011	1	BOTTOM_METAL
2	TKZ5ZX5006-1	2	VESA METAL

## 7.9. Plate Metal Part Assembly

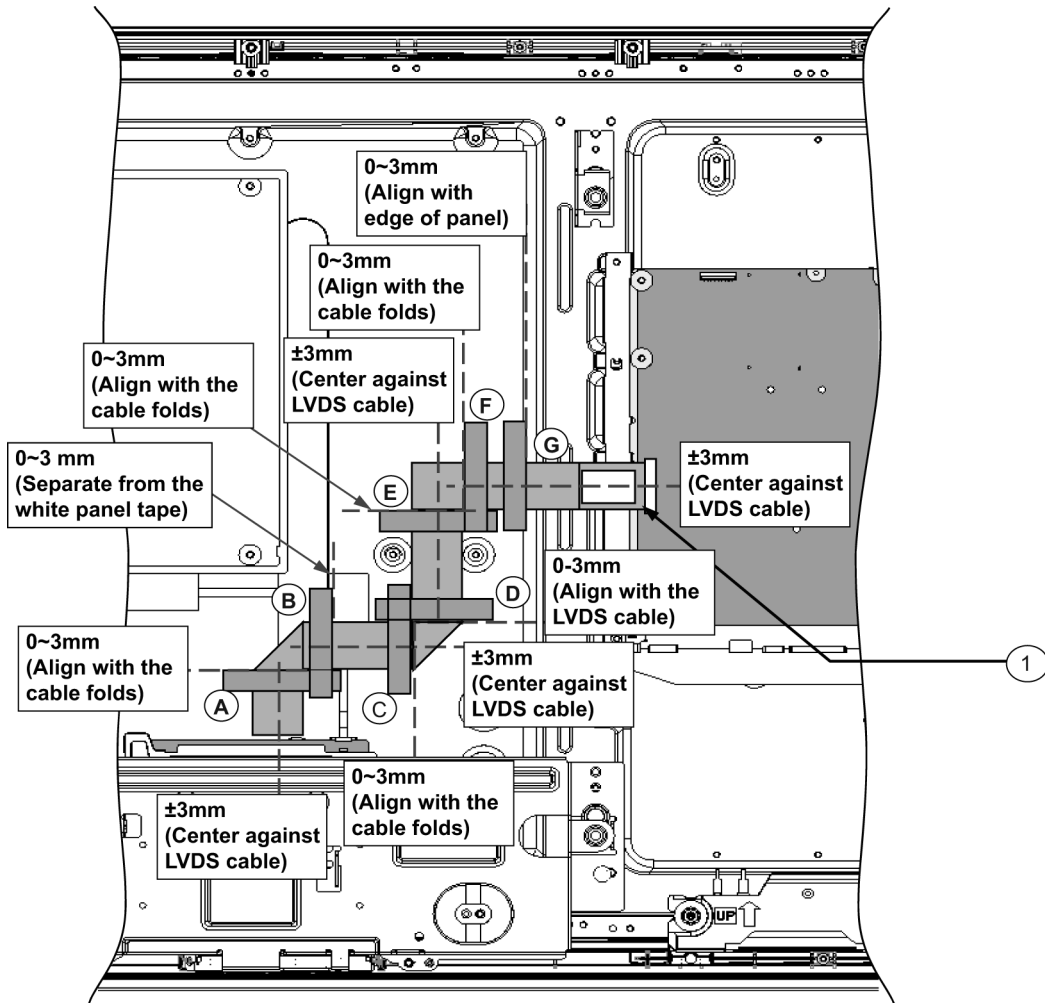
1. Place the gasket at the bottom of the metal parts, see figure 1.
2. Place the metal parts in the positions indicated, insert the metal part guide pins into the holes on the panel, as shown in detail A.
3. Place the gasket on one side of metal part L, then cover it with 2 strips of 35 mm tape. See figure 2.
4. Screw in the positions indicated using the corresponding torque.



No.	Part Num.	Quant.	Description
1	TUA5ZA03201	1	METAL_CH_FRAME_L
2	TUA5ZA04301	1	METAL_CH_FRAME_R
3	TEWB809	1	GASKET(T15 × W15 × L25)

## 7.10. LVDS Cable Assembly

1. Connect the LVDS cables as indicated.
2. Place the tape in the position indicated, starting with letter A.



Reference for connecting flexible cables.

Open

To close the connector, press the connector at both ends using 2 hands.

Insert the flexible cable hooks on both sides.

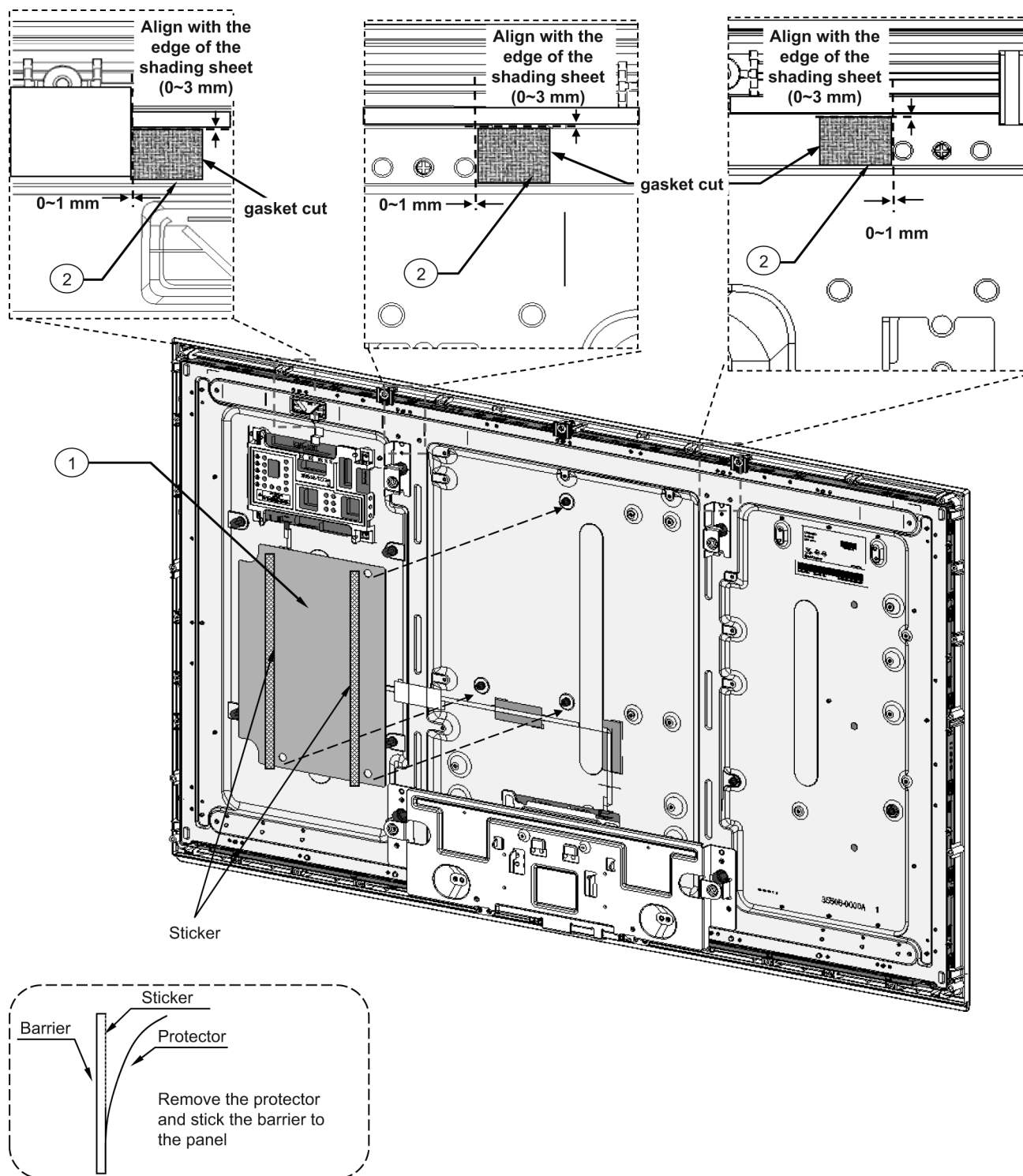
**NOTE:** Make sure the cable is properly inserted.

**NOTE:** If you want to disconnect the flexible cable, open the connector door, pulling and lifting gently at the same time so you can remove it.

No.	Part Num.	Quant.	Description
1	TSCFF0030012	1	LVDS CABLE

## 7.11. Fitting the Barrier

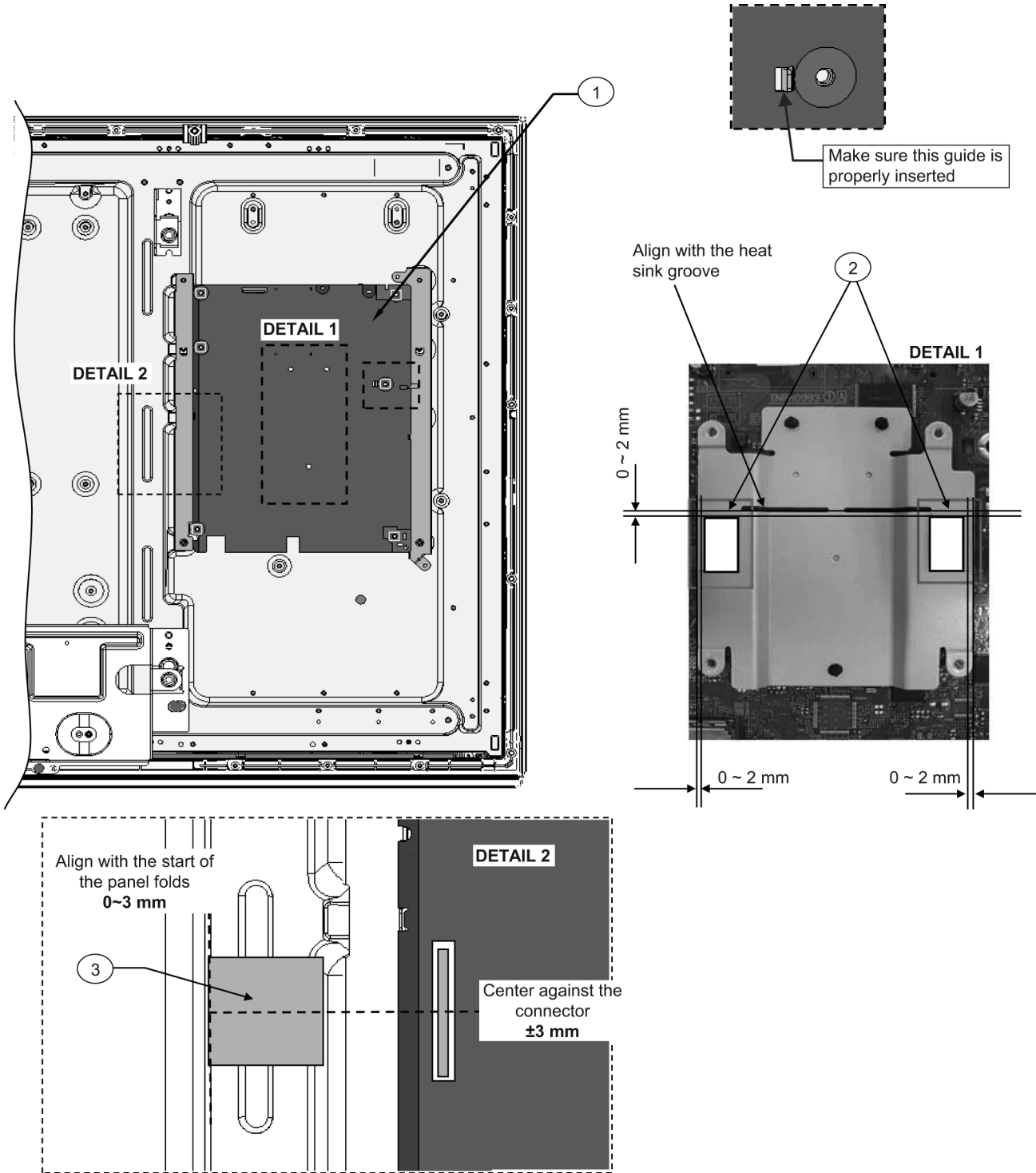
1. Place the barrier in the position indicated, using the bosses for centering.
2. Stick gaskets in the positions indicated.



No.	Part Num.	Quant.	Description
1	TMK2AX234	1	BARRIER P PCB
2	TEWB772	3	GASKET T5 W10 L10

## 7.12. Plate A Assembly

1. Fit plate A on the metal guides.
2. Place the thermal sheet in the position indicated. Detail 1
3. Screw in the positions indicated using the corresponding torque.
4. Place the sponges in the panel, use detail 2 as a reference.

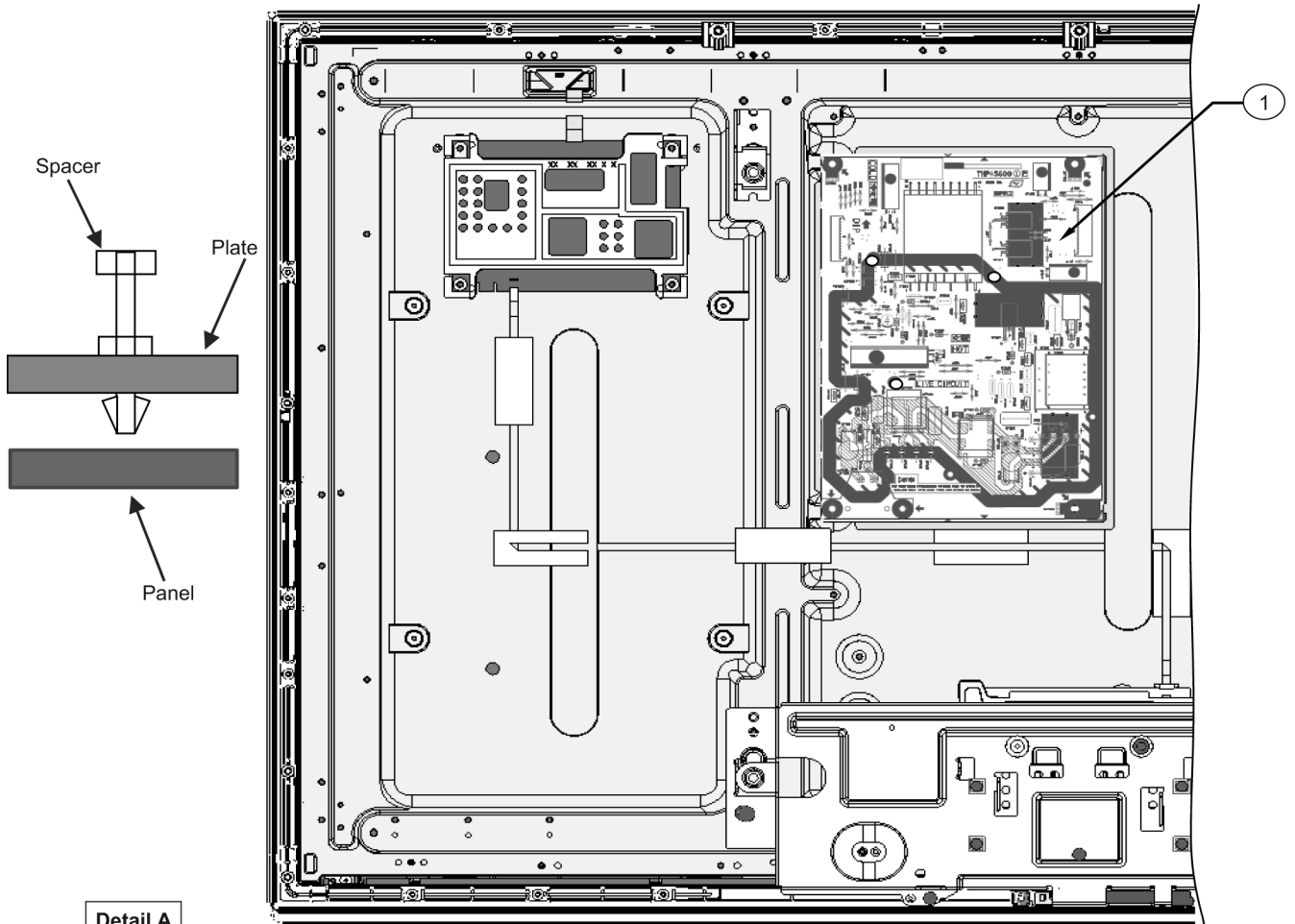


No.	Part Num.	Quant.	Description
1	TXN/A1PTUXS	1	ASSY, A PANEL COMPLETE
2	TMKK486	2	THERMAL CONDUCTIVE SHEET
3	TMK2AG159	1	SPONGE

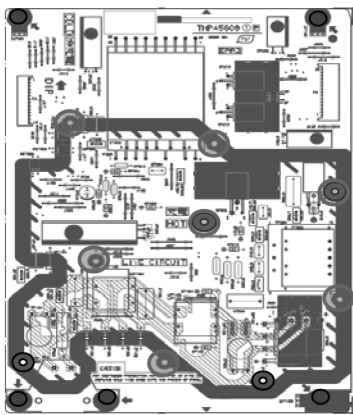


### 7.13. Plate P Assembly

1. Fit plate P on the metal guides.
2. Place the spacers in the correct positions. Detail A
3. Screw in the positions indicated using the corresponding torque.



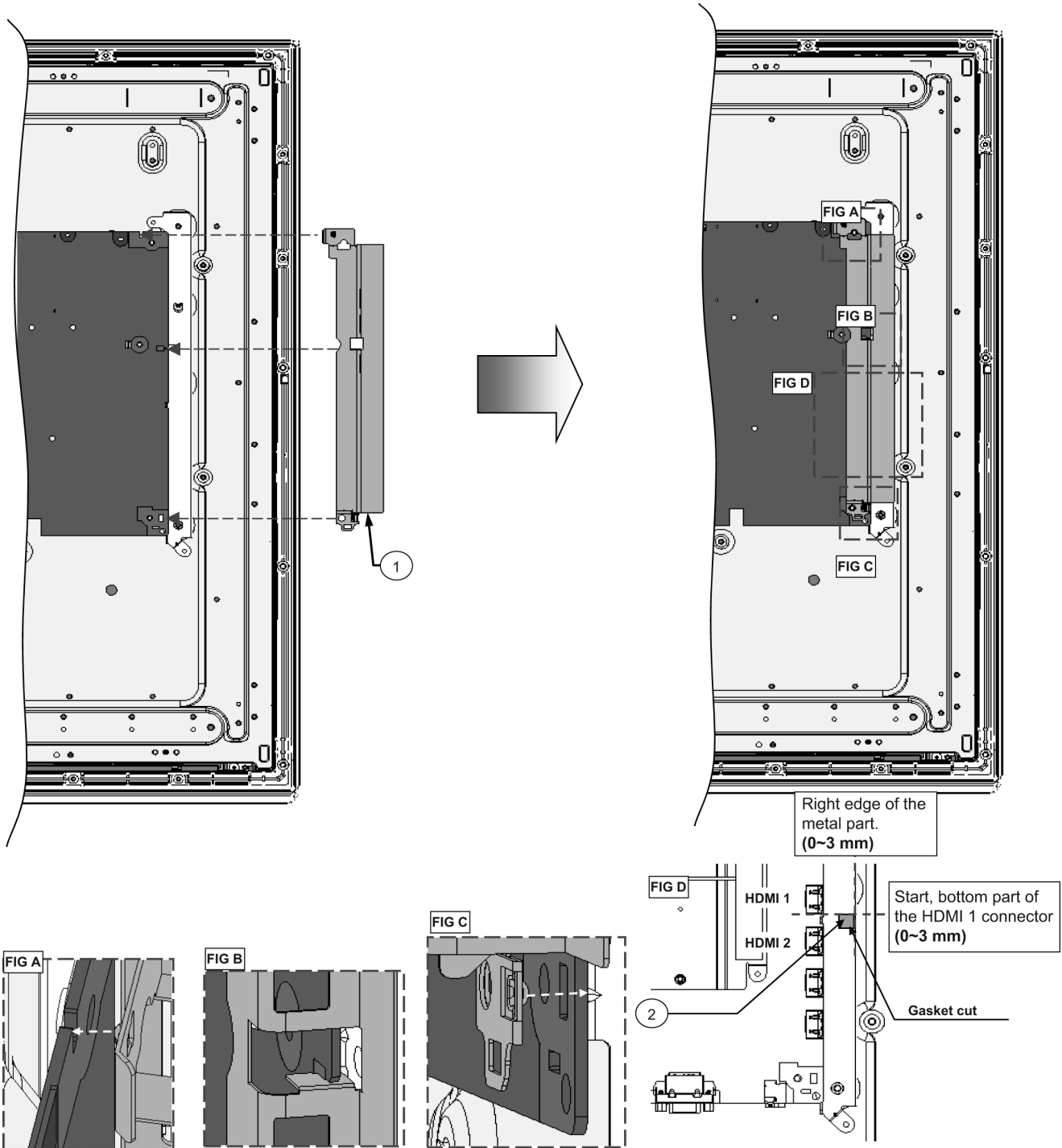
Detail A



No.	Part Num.	Quant.	Description
1	TXN/P1PTUX	1	ASSY, P PANEL COMPLETE FROM KATOLEC

### 7.14. Assembling the Metal AV Bracket Side

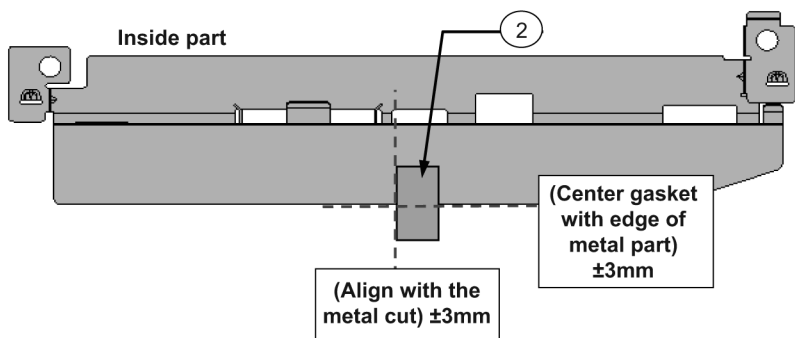
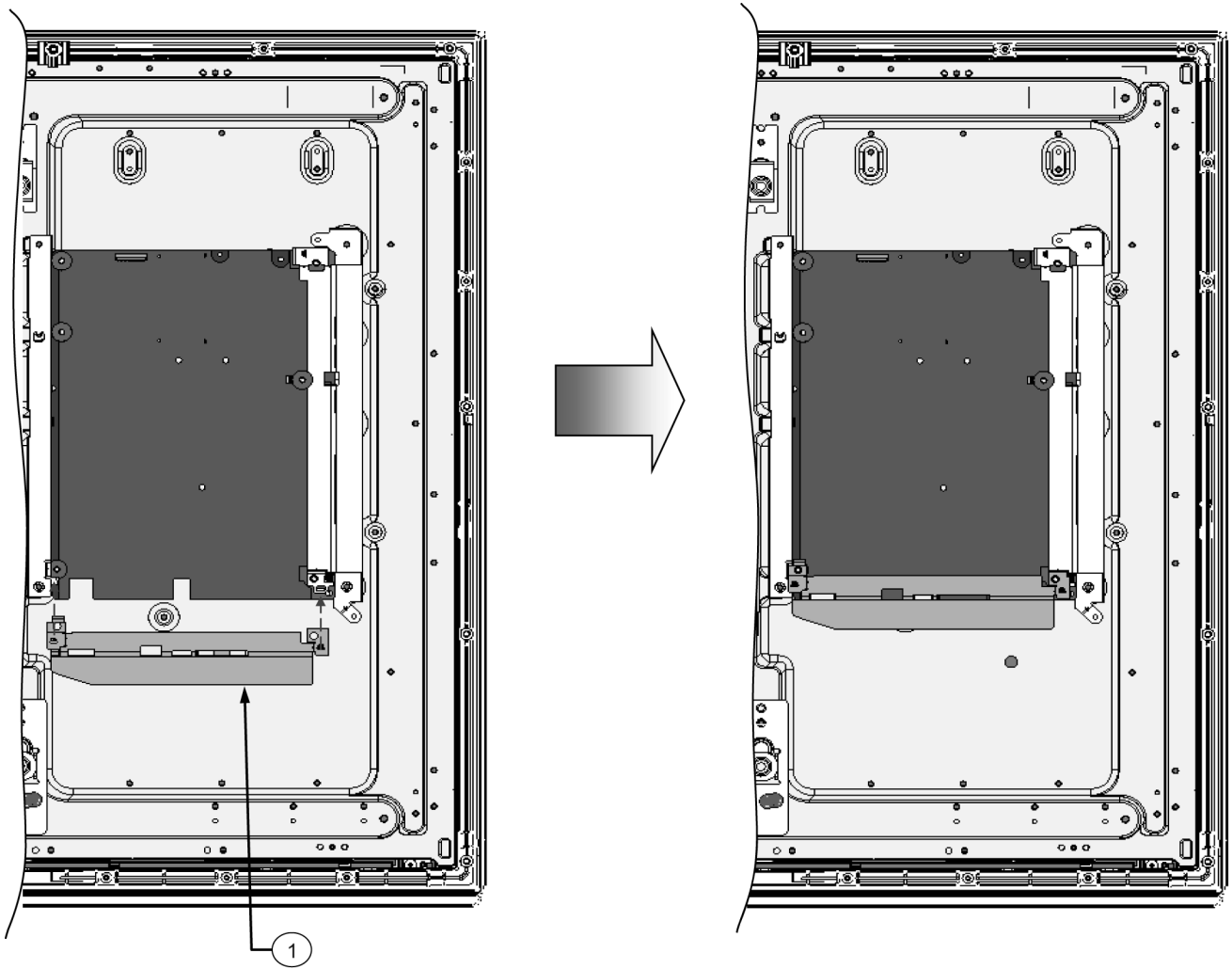
1. Place gasket between HDMI 1 & 2; use fig D as a placement reference.
2. Assemble Metal AV Bracket to plate A.
3. Insert in the metal guides on the plate, see figures A, B and C.



No.	Part Num.	Quant.	Description
1	TKZ5ZF50035	1	METAL AV BRACKET SIDE
2	TEWB772	1	GASKET T5 W10 L10

### 7.15. Assembling the Metal AV Bracket BTM

1. Place the gasket inside the metal AV Bracket.
2. Place the Metal AV Bracket in the position indicated.
3. Screw in the positions indicated using the corresponding torque.

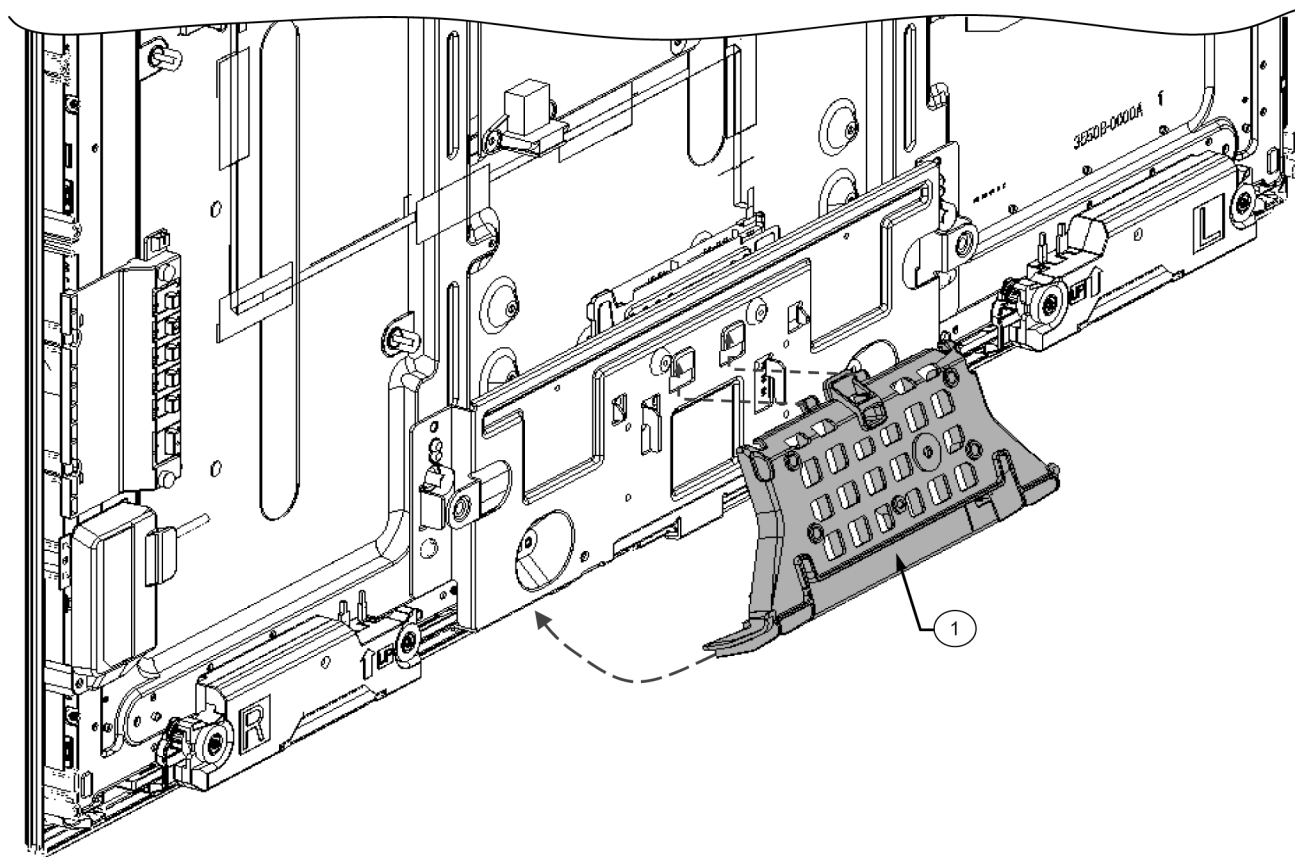


**Note:** Half the gasket will be stuck to the bottom AV bracket and the rest will be surplus on the outside.

No.	Part Num.	Quant.	Description
1	TKZ5ZF50071	1	METAL_AV_BRACKET_BTM
2	TEWB763	1	GASKET (T12*W10*L20)

## 7.16. Bottom Cover Assembly

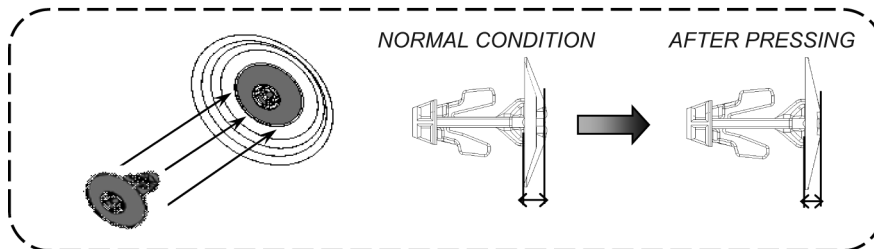
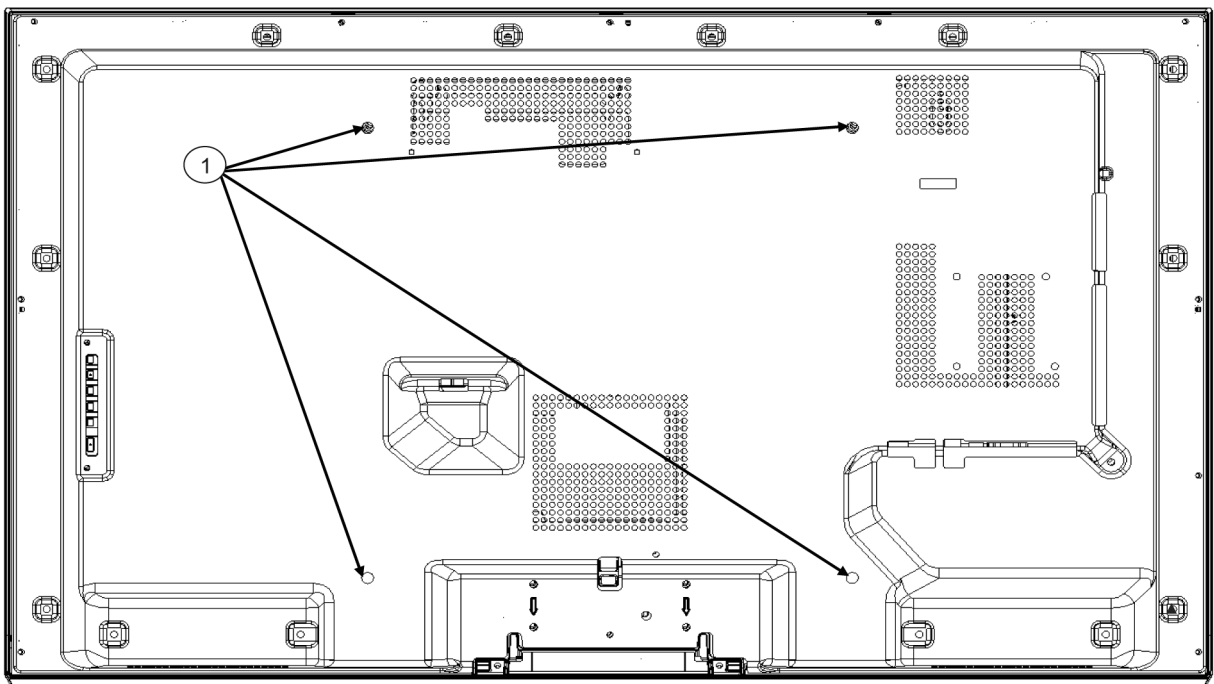
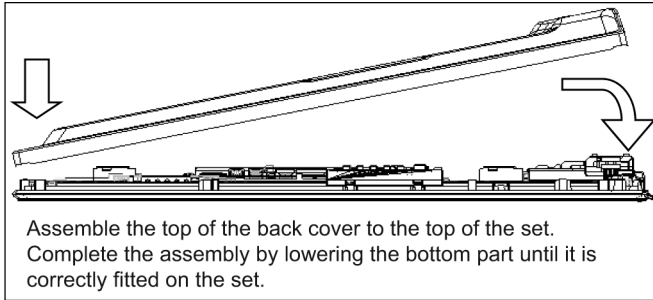
Insert the bottom cover guides into the lower metal grooves and slide in the direction indicated.



No.	Part Num.	Quant.	Description
1	TKP5ZA13801	1	BOTTOM COVER

### 7.17. Screwing up the Back Cover

1. Place the back cover in the position indicated.
2. Place the M6s in the positions indicated.
3. Screw in the positions indicated using the corresponding torque.



No.	Part Num.	Quant.	Description
1	TKKL5521	4	M6 CAP

## 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
PANEL12V	TP4004/TP4005	11.45V - 12.55V
USB_5V	TP5440	4.80V - 5.25V
SUB5V	TP5420	4.95V - 5.65V
SUB3.3V	TP5400	3.17V - 3.43V
SUB1.8V	TP8700	1.7V - 1.9V
SUB1.5V	TP8101	1.435V - 1.585V
SUB1.1V	TP8100	1.10V - 1.22V

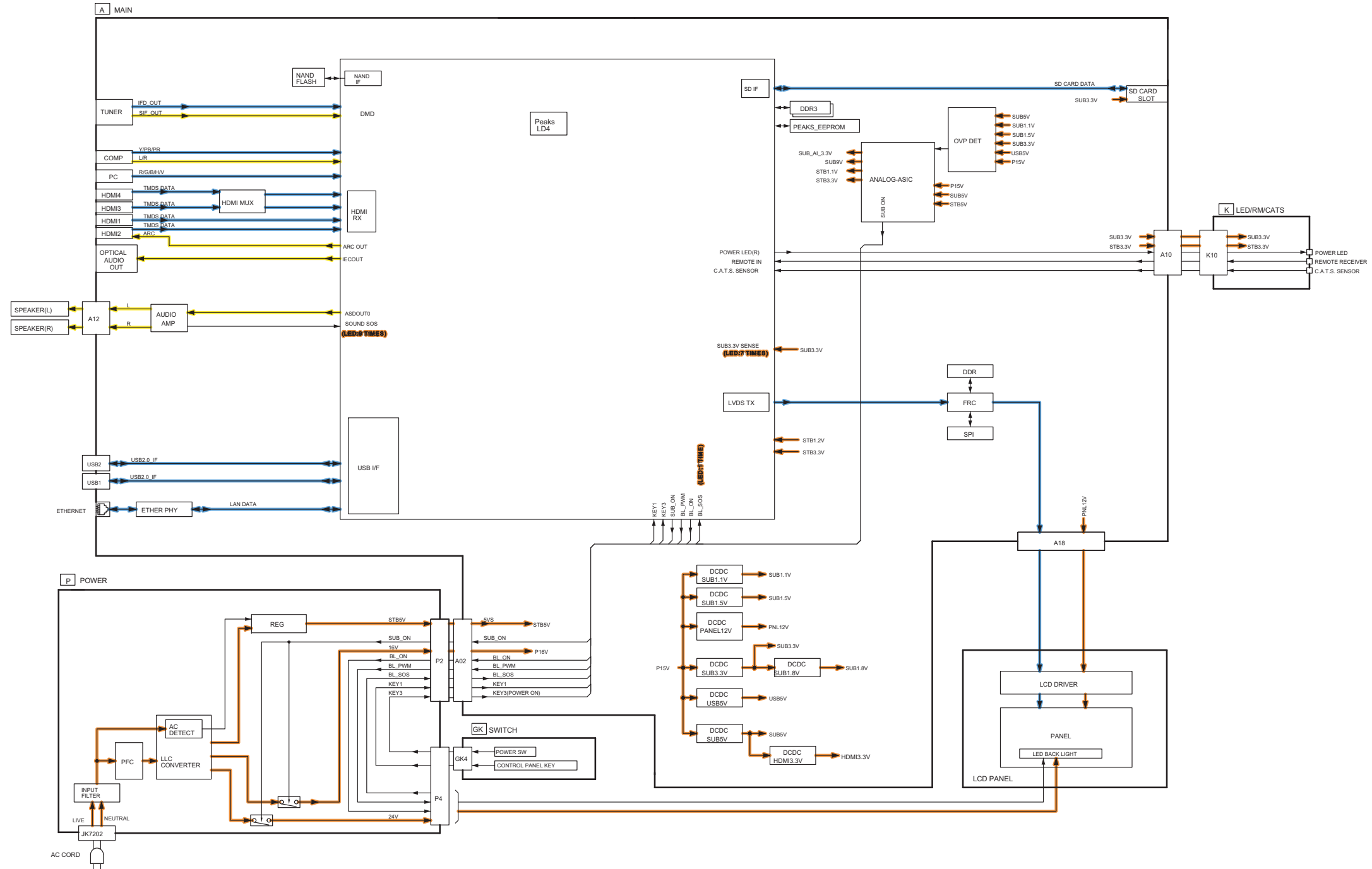
### 8.2. Voltage chart of P-board

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

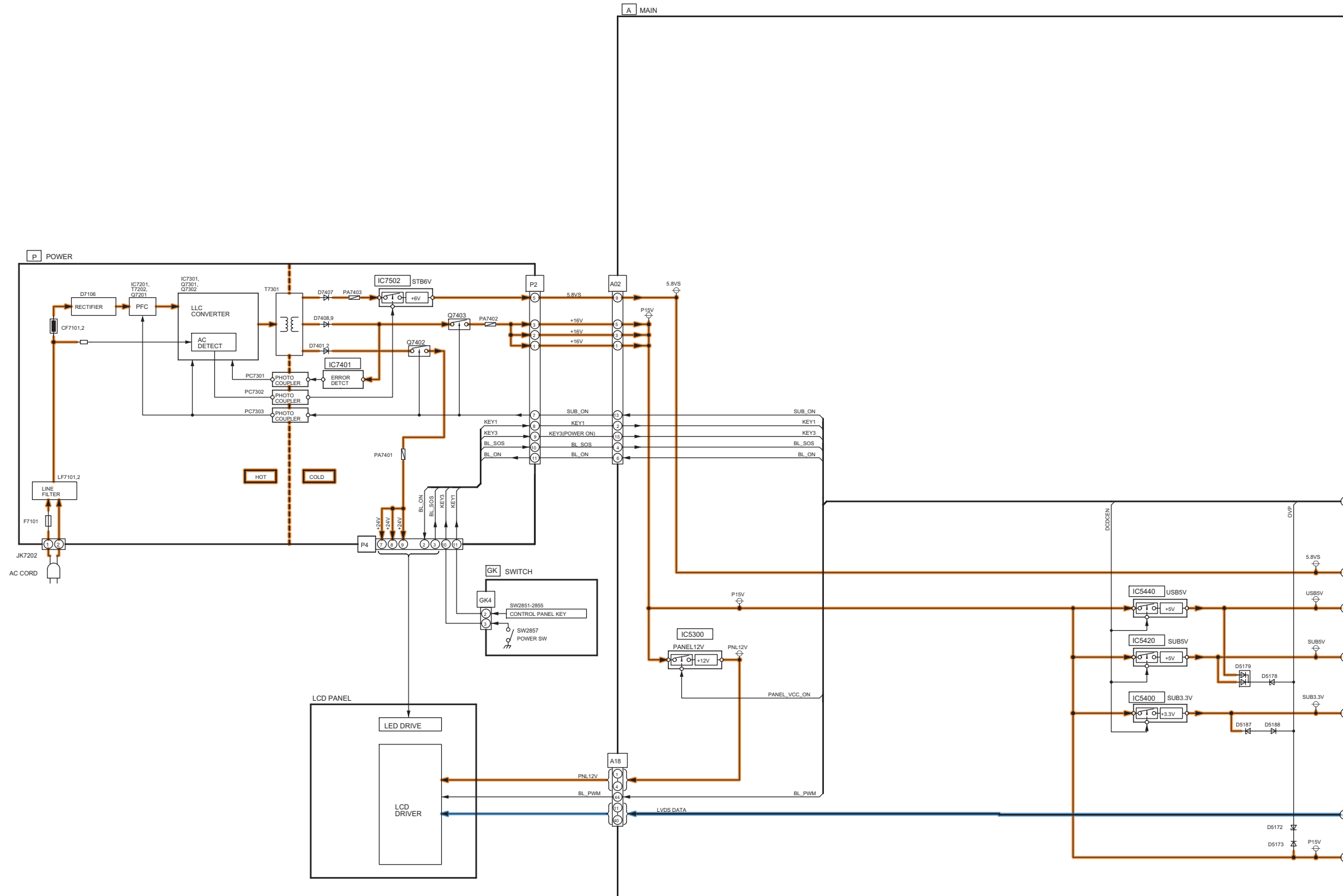
VOLTAGE	TEST POINT	SPECIFICATION	
		OPERATE	FUNCTION STANDBY
5VS	TP7412, 7507	5.3 V $\pm$ 0.1 V	←
16V	TP7508, 7514	16.1 $\pm$ 0.6 V	←
24V	TP7512, 7513	24 V $\pm$ 1.2 V	←

# 9 Block Diagram

## 9.1. Main Block Diagram



## 9.2. Detailed Block Diagram (1/2)



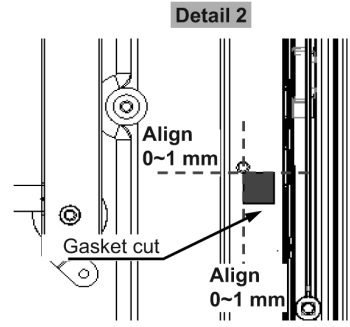
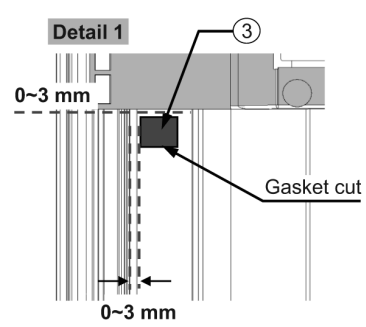
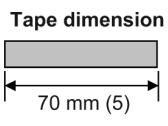
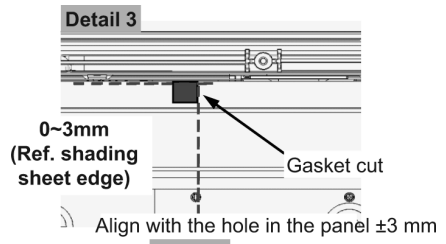
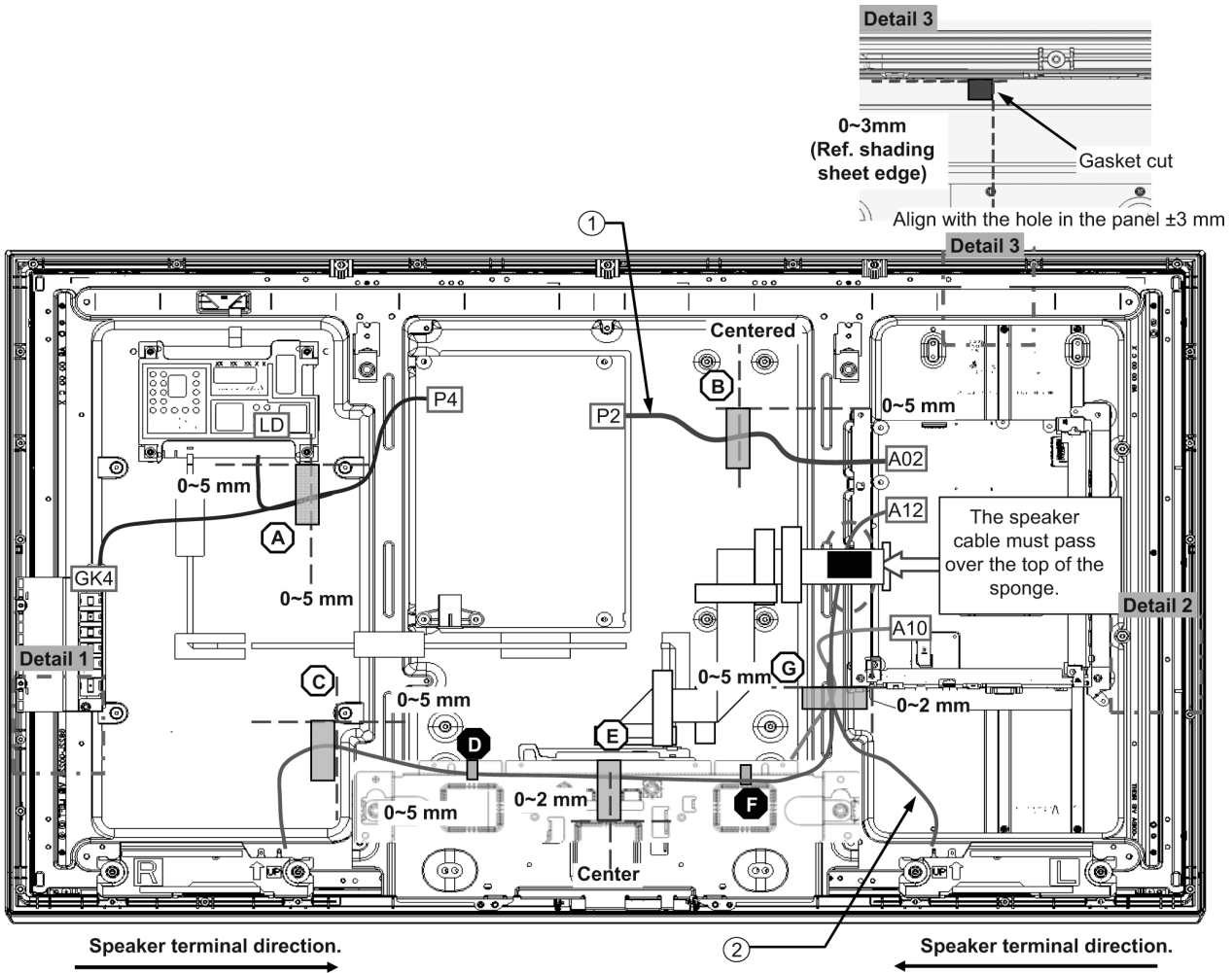




# 10 Wiring Connection Diagram

## 10.1. Cable Alignment

1. Align and connect the cables, placing the tape in the positions indicated.
2. Place the gaskets in the positions indicated. See details 1, 2 and 3.



No.	Part Num.	Quant.	Description
1	TXJA02SLUU	1	A02-P2
2	TXJA12SLUU	1	A12-SP
3	TEWB772	3	GASKET T5 W10 L10

Cables	Clampers / Tapes						
	A	B	C	D	E	F	G
P4-LD/GK4	●						
P2 - A02		●					
SP (R) - A12			●	●	●	●	●
SP (L) - A12							●
A10 - K10							●

# 11 Schematic Diagram

## 11.1. Schematic Diagram Notes

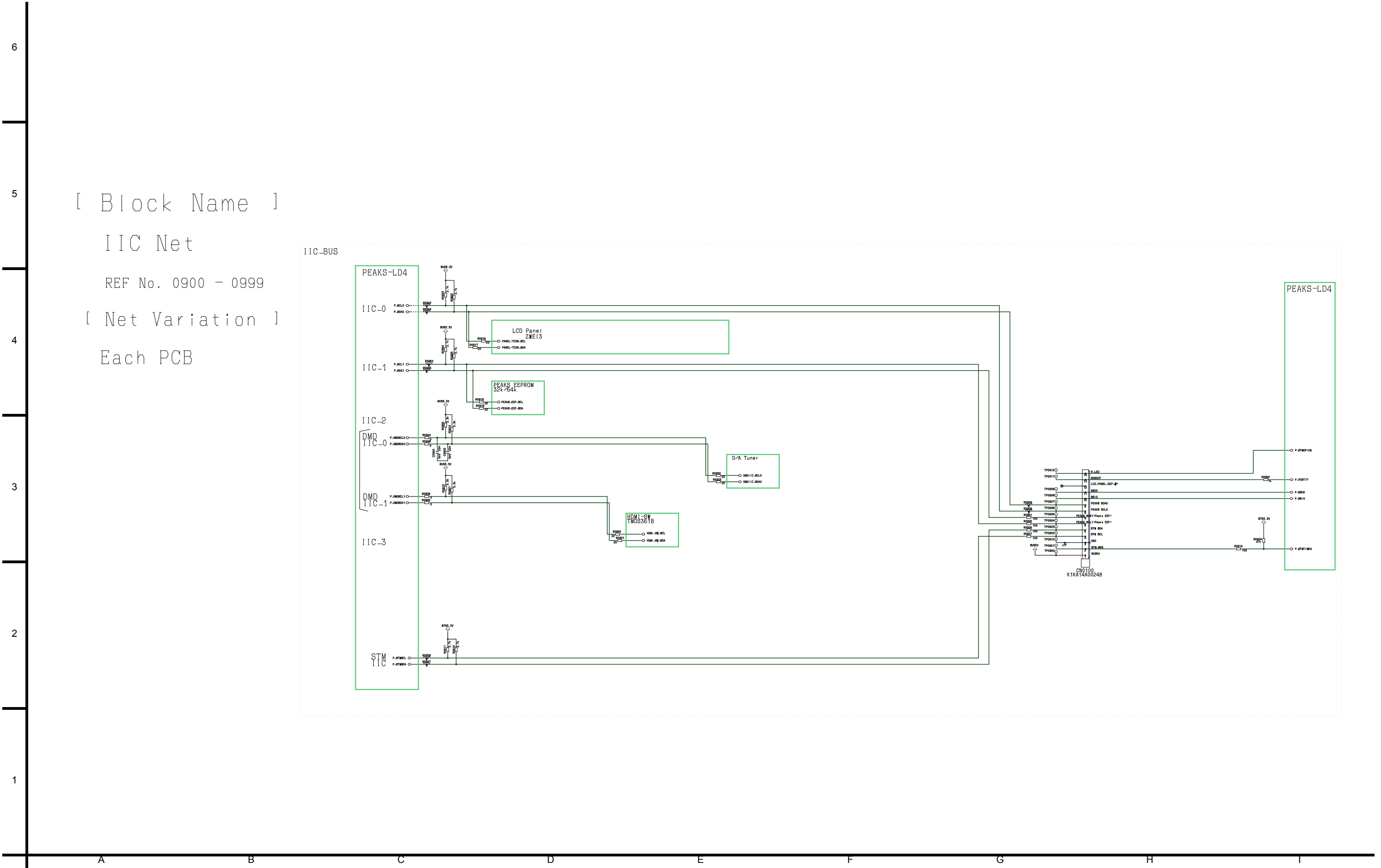
### Notes:

1. **Resistor**  
Unit of resistance is OHM [ $\Omega$ ] (K=1,000, M=1,000,000).
2. **Capacitor**  
Unit of capacitance is  $\mu$ F, 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 following 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

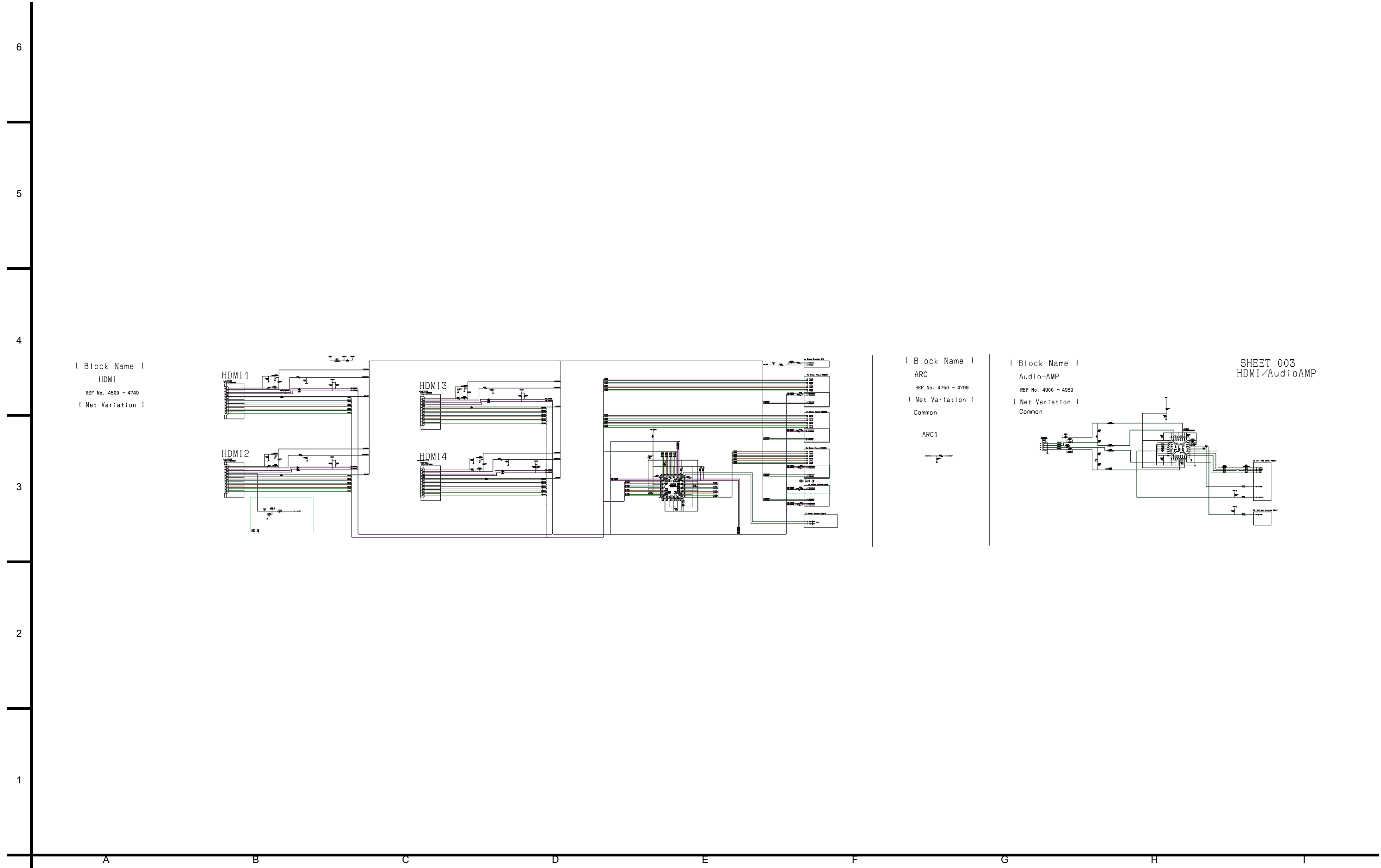


[ Block Name ]  
 IIC Net  
 REF No. 0900 - 0999  
 [ Net Variation ]  
 Each PCB

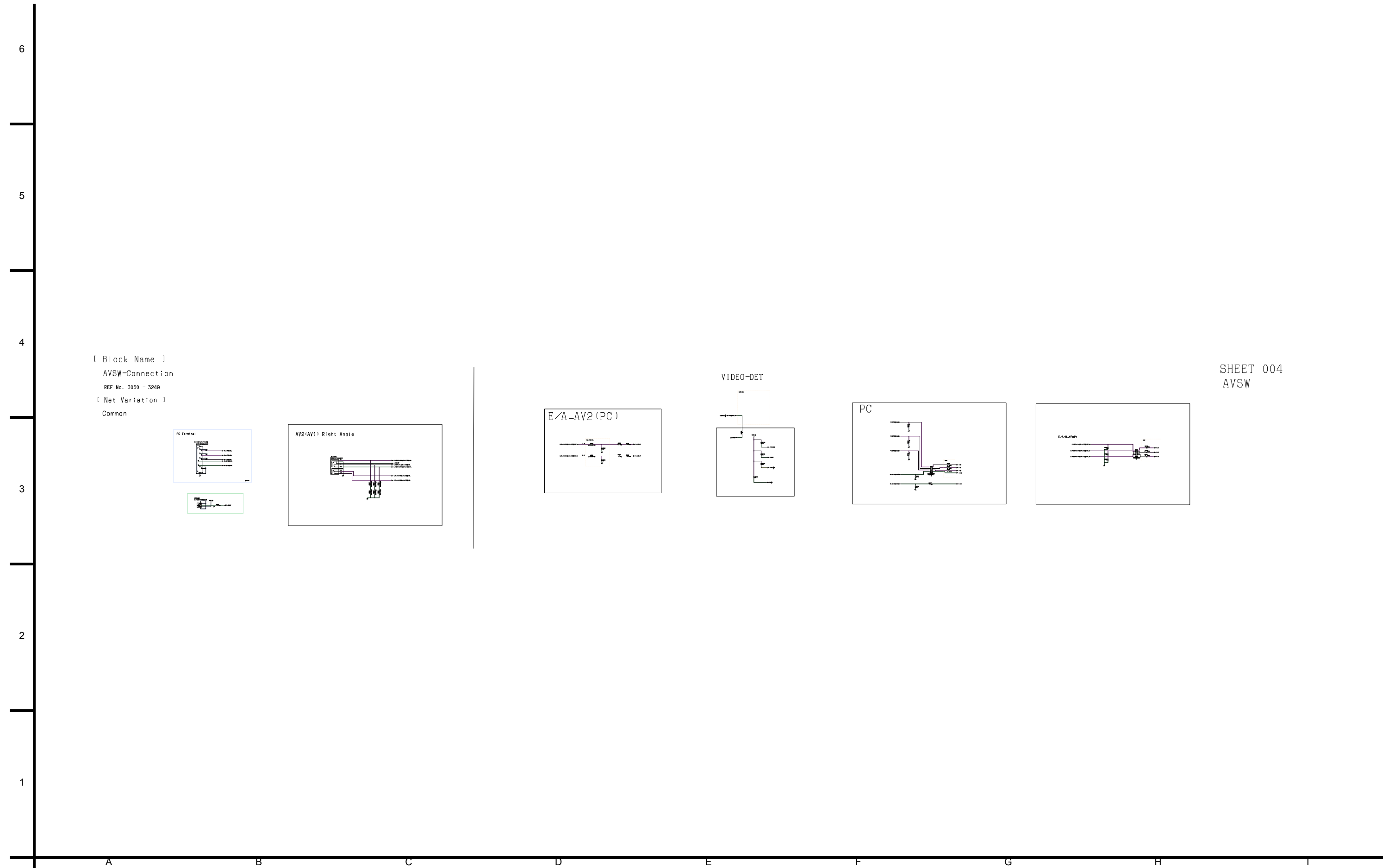
6  
5  
4  
3  
2  
1

A B C D E F G H I

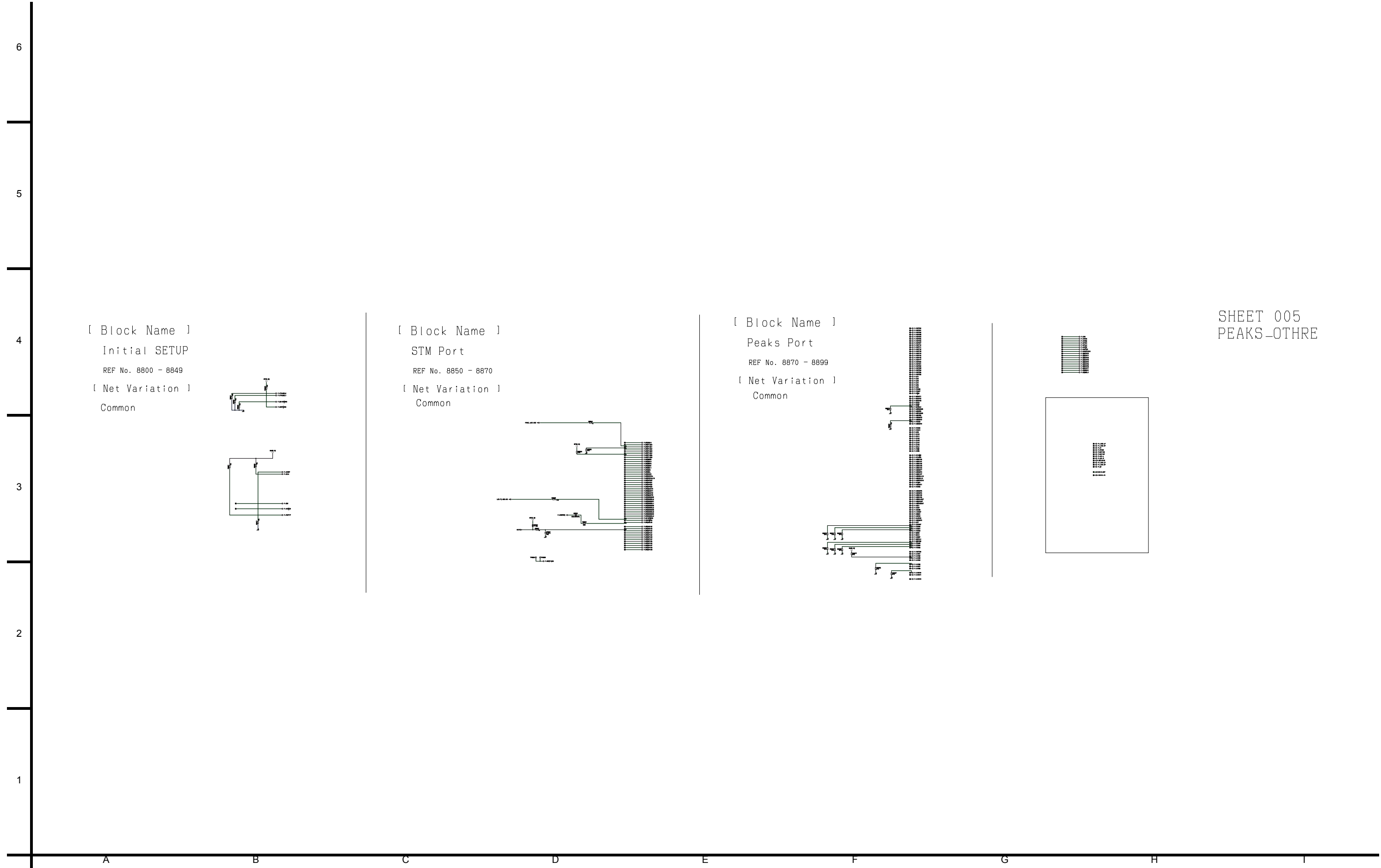
### 11.3. A-Board (2/17) Schematic Diagram



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



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

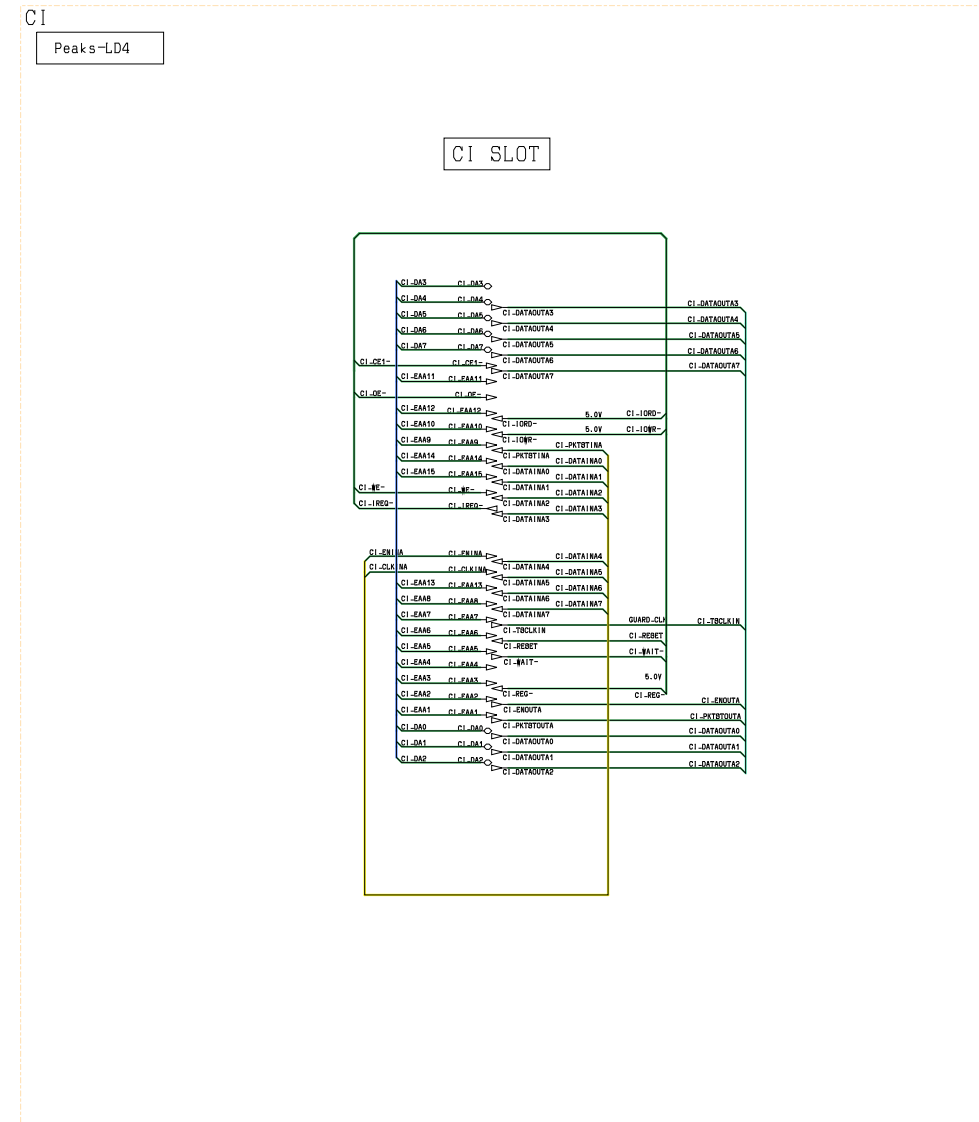




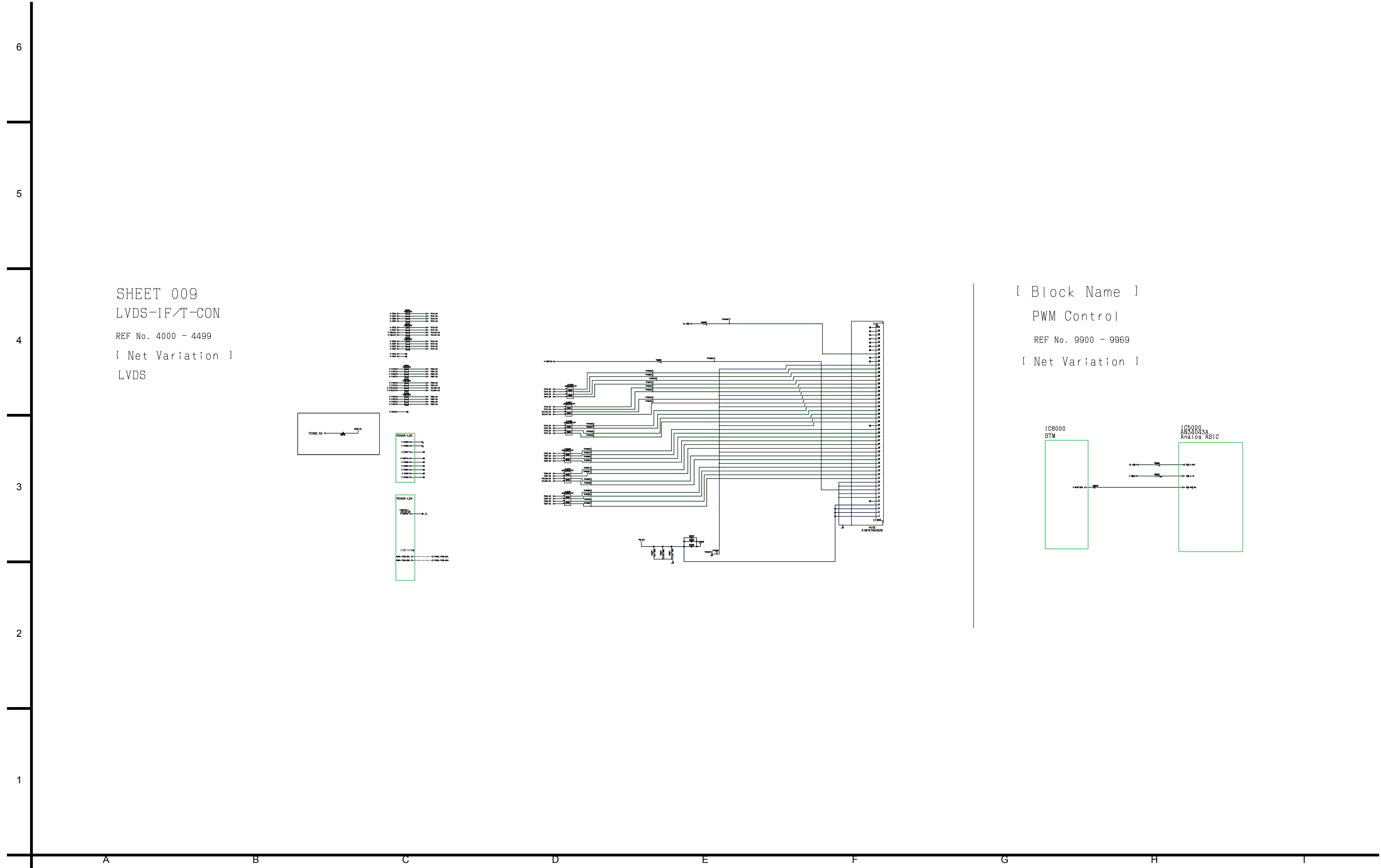
### 11.6. A-Board (5/17) Schematic Diagram

6  
5  
4  
3  
2  
1

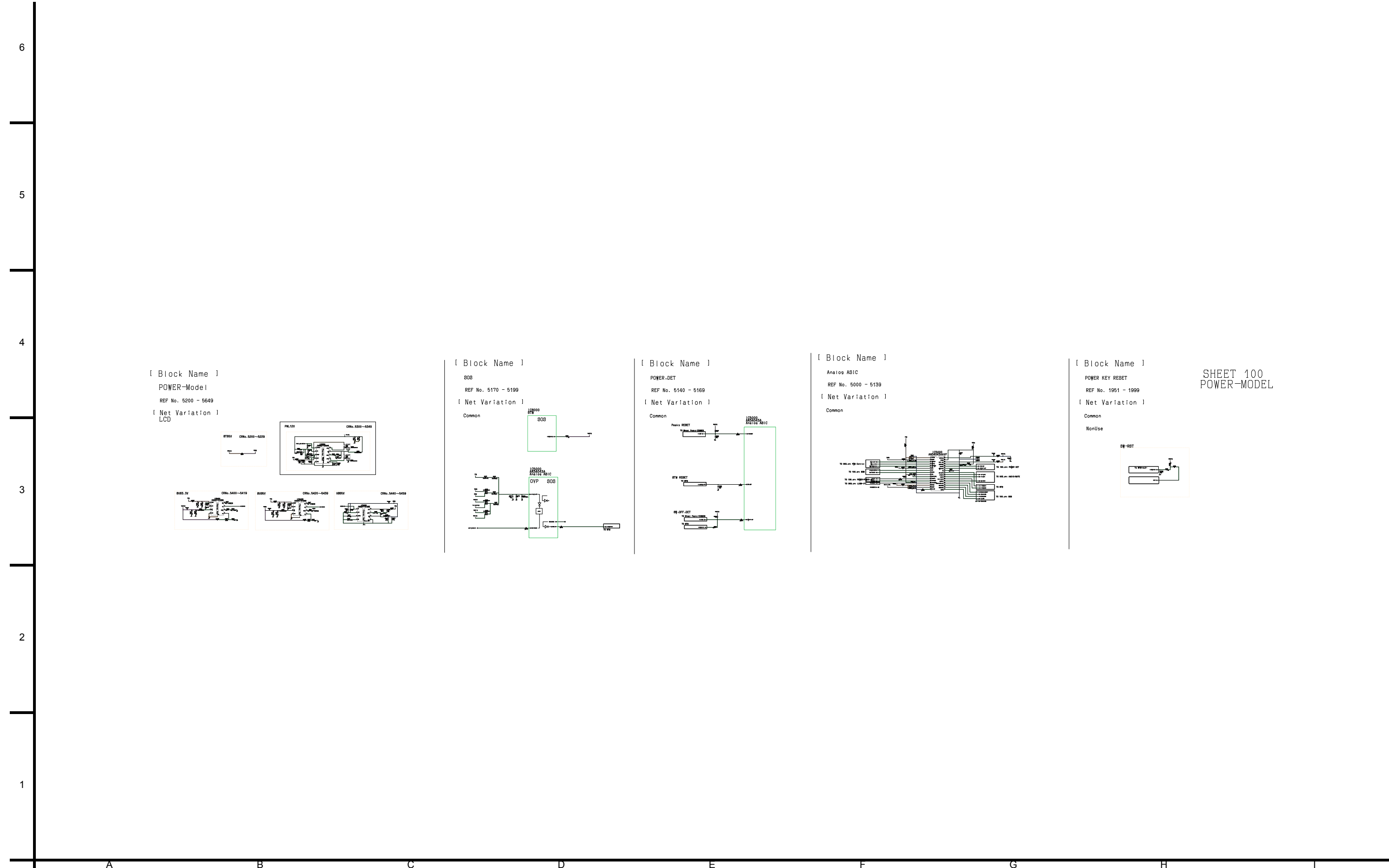
SHEET 006  
CI/B-CAS  
REF No. 8400 - 8449  
[ Net Variation ]  
Common



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

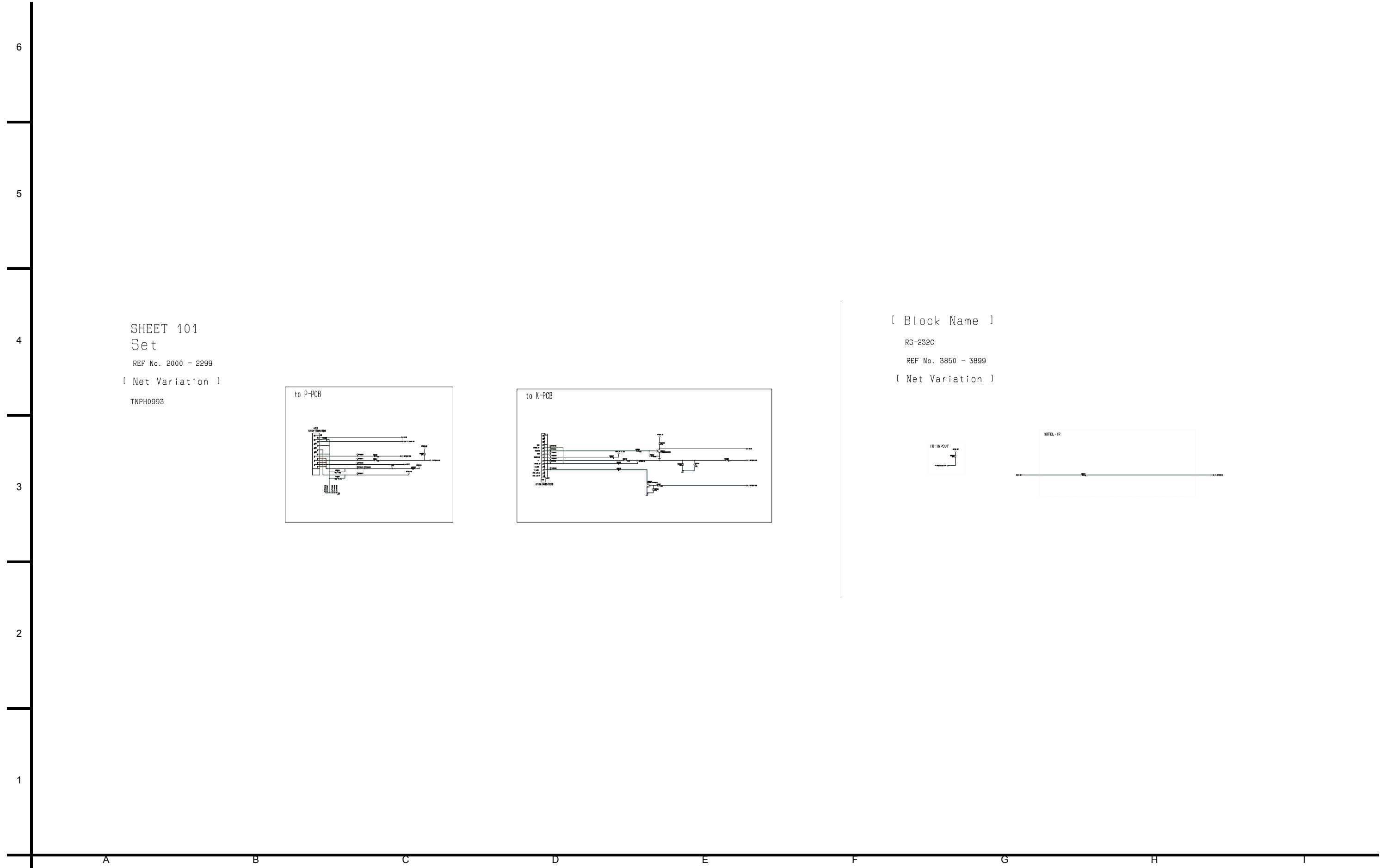


11.8. A-Board (7/17) Schematic Diagram



SHEET 100  
POWER-MODEL

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



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

6

5

SHEET 300  
COMMON\_NAND/SPC/EEPROM/JTAG

REF No.

[ Net Variation ]

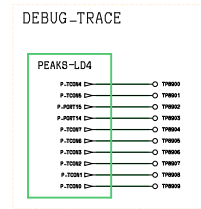
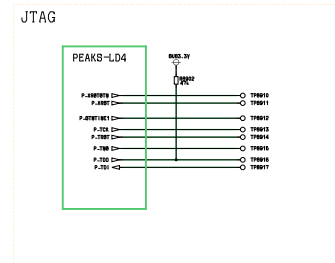
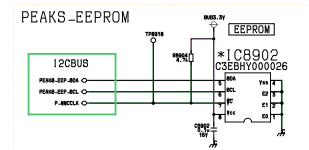
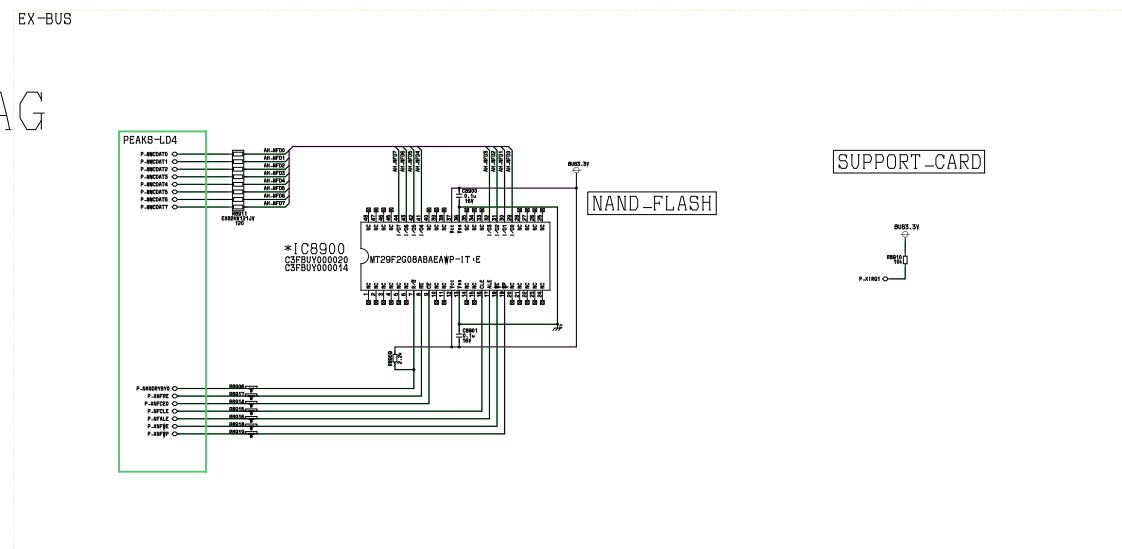
Common

4

3

2

1



A

B

C

D

E

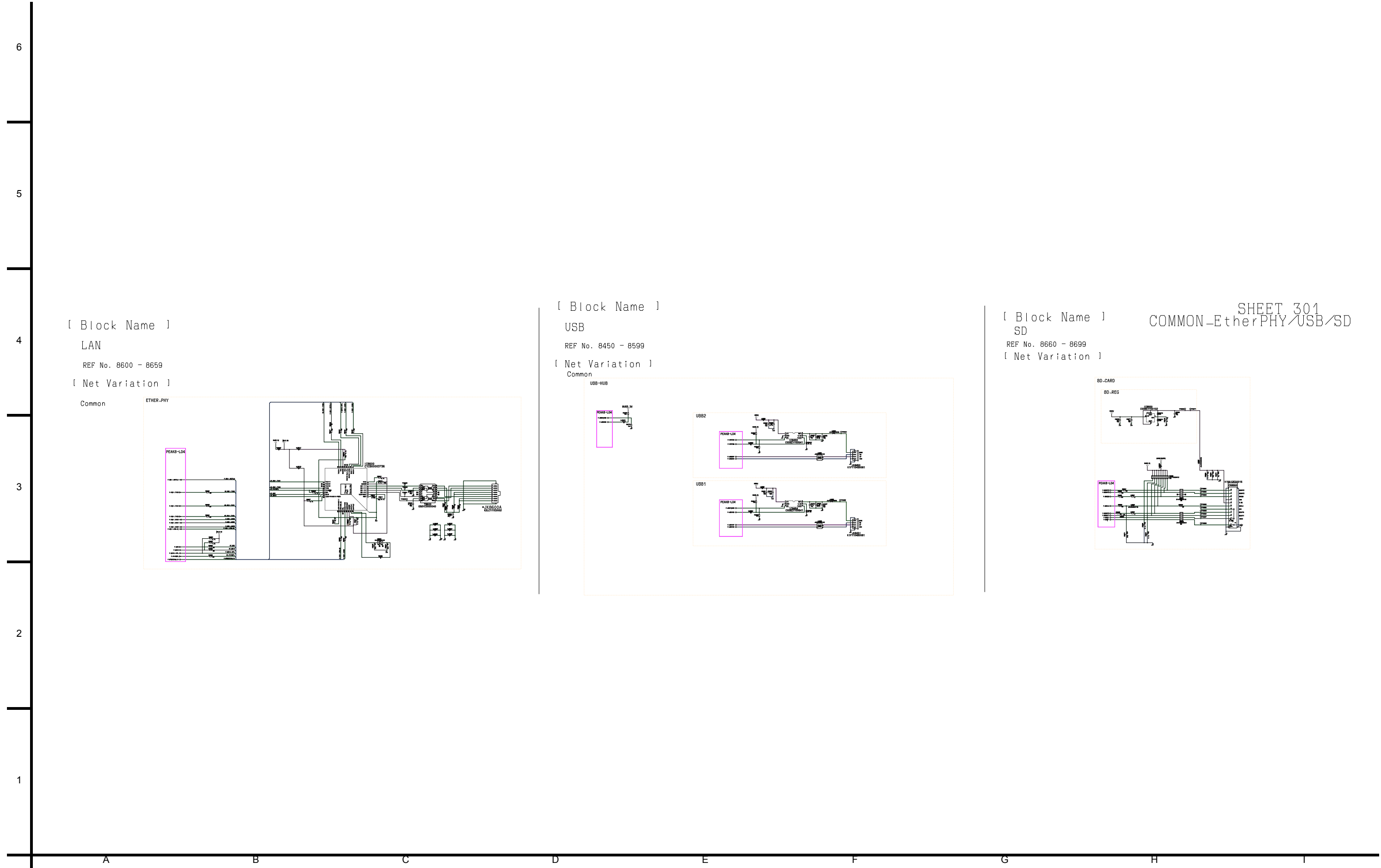
F

G

H

I

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



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

6

5

4

3

2

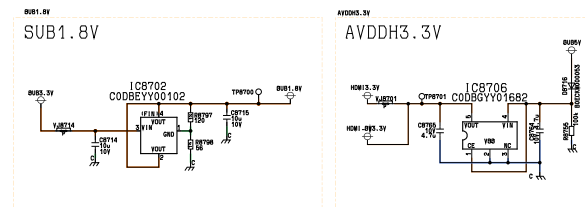
1

SHEET 302  
POWER-Peaks

REF No. 8000 - 8999

[ Net Variation ]

Common



A

B

C

D

E

F

G

H

I



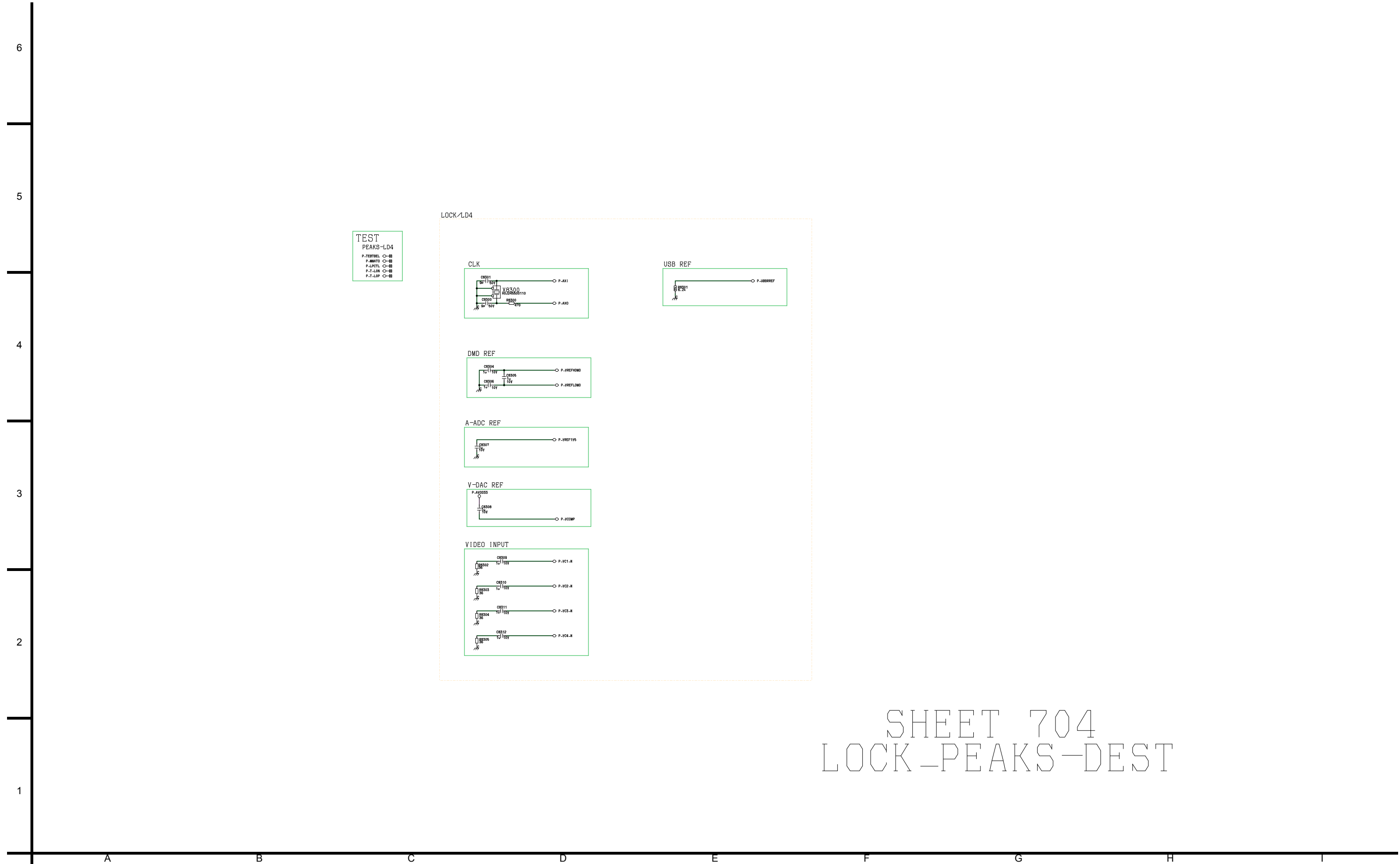




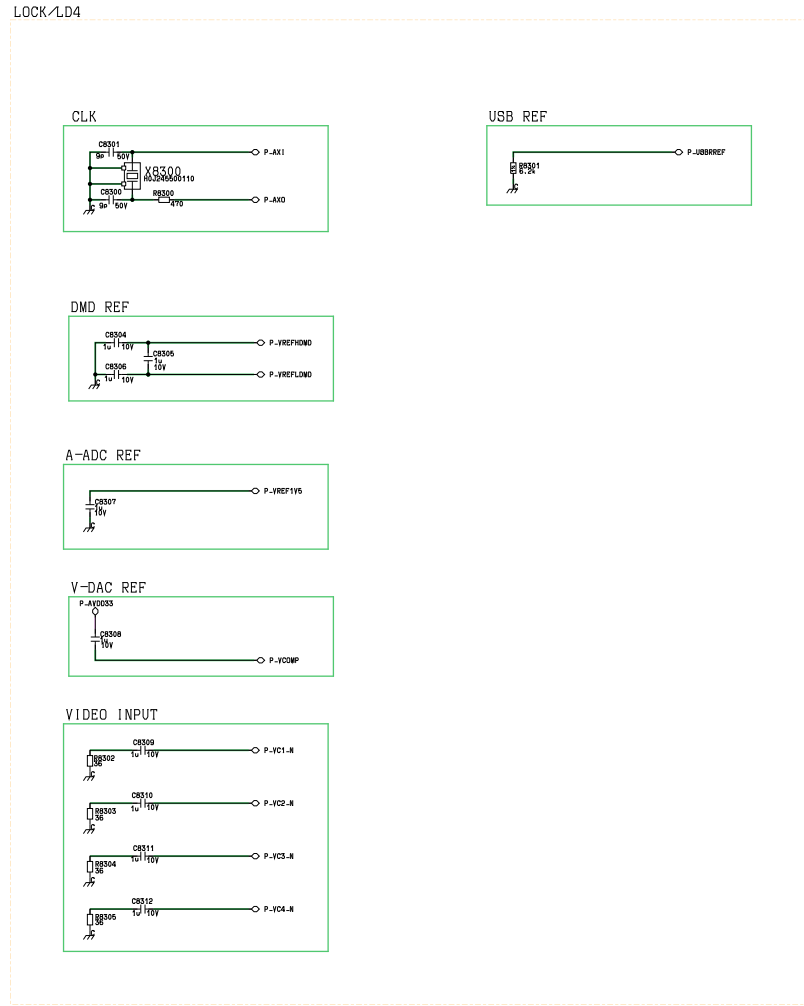




11.17. A-Board (16/17) Schematic Diagram

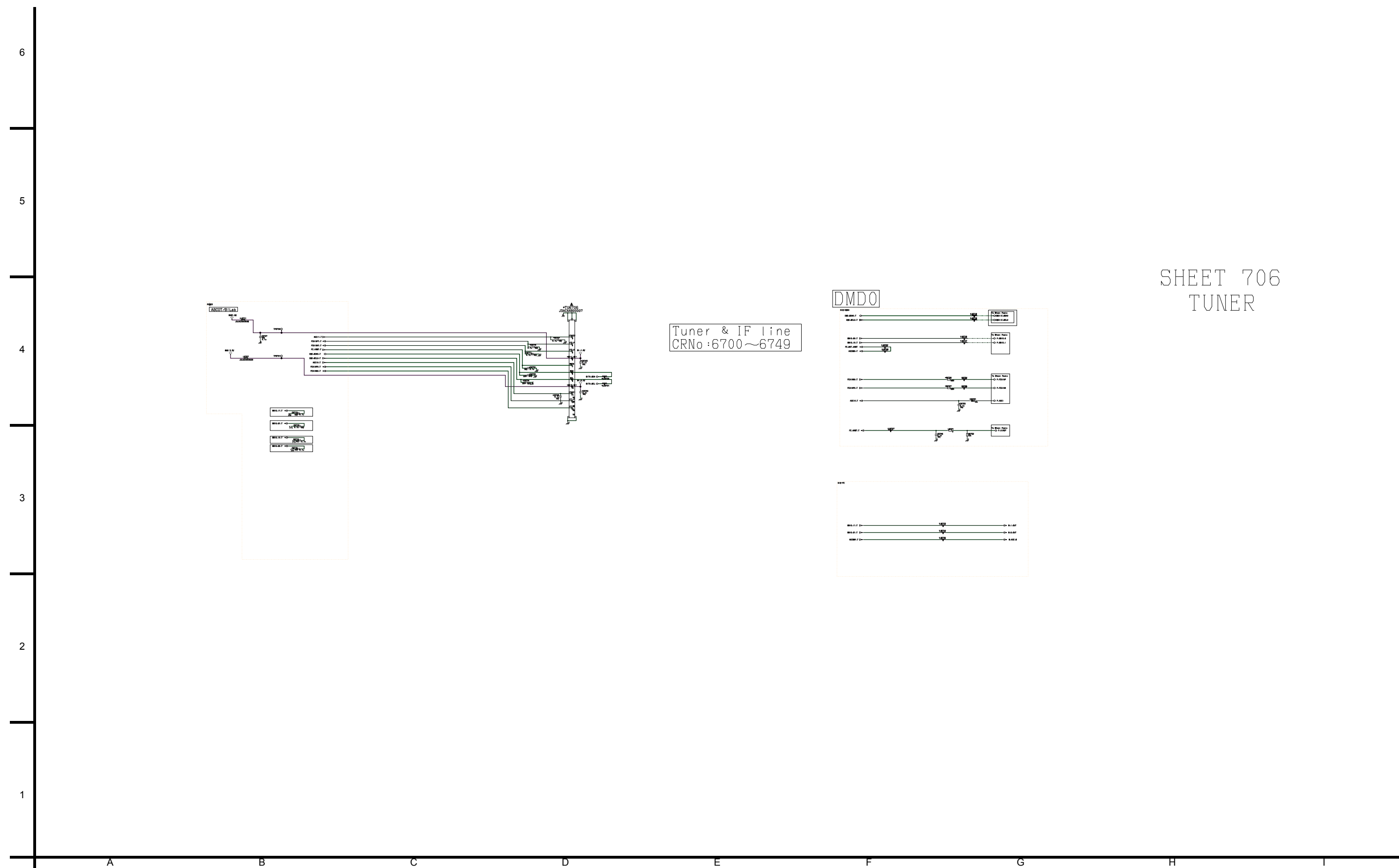


TEST  
PEAKS-LD4  
P-TESTREL ○-□  
P-MBMTD ○-□  
P-LPCT1 ○-□  
P-T-LDR ○-□  
P-T-LWP ○-□

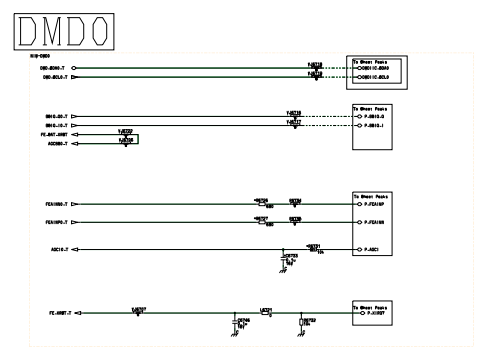


SHEET 704  
LOCK-PEAKS-DEST

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

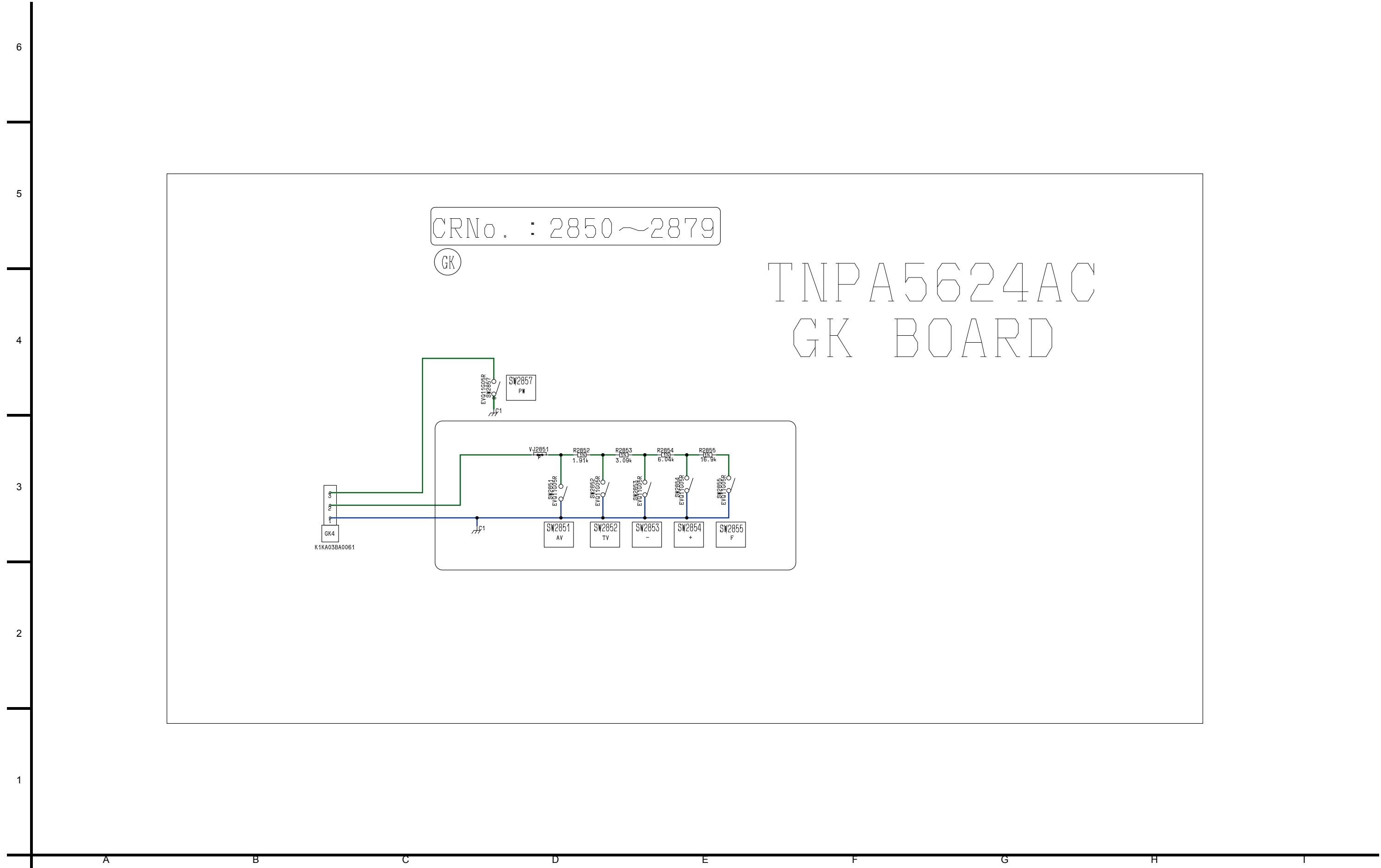


Tuner & IF line  
CRNo:6700~6749

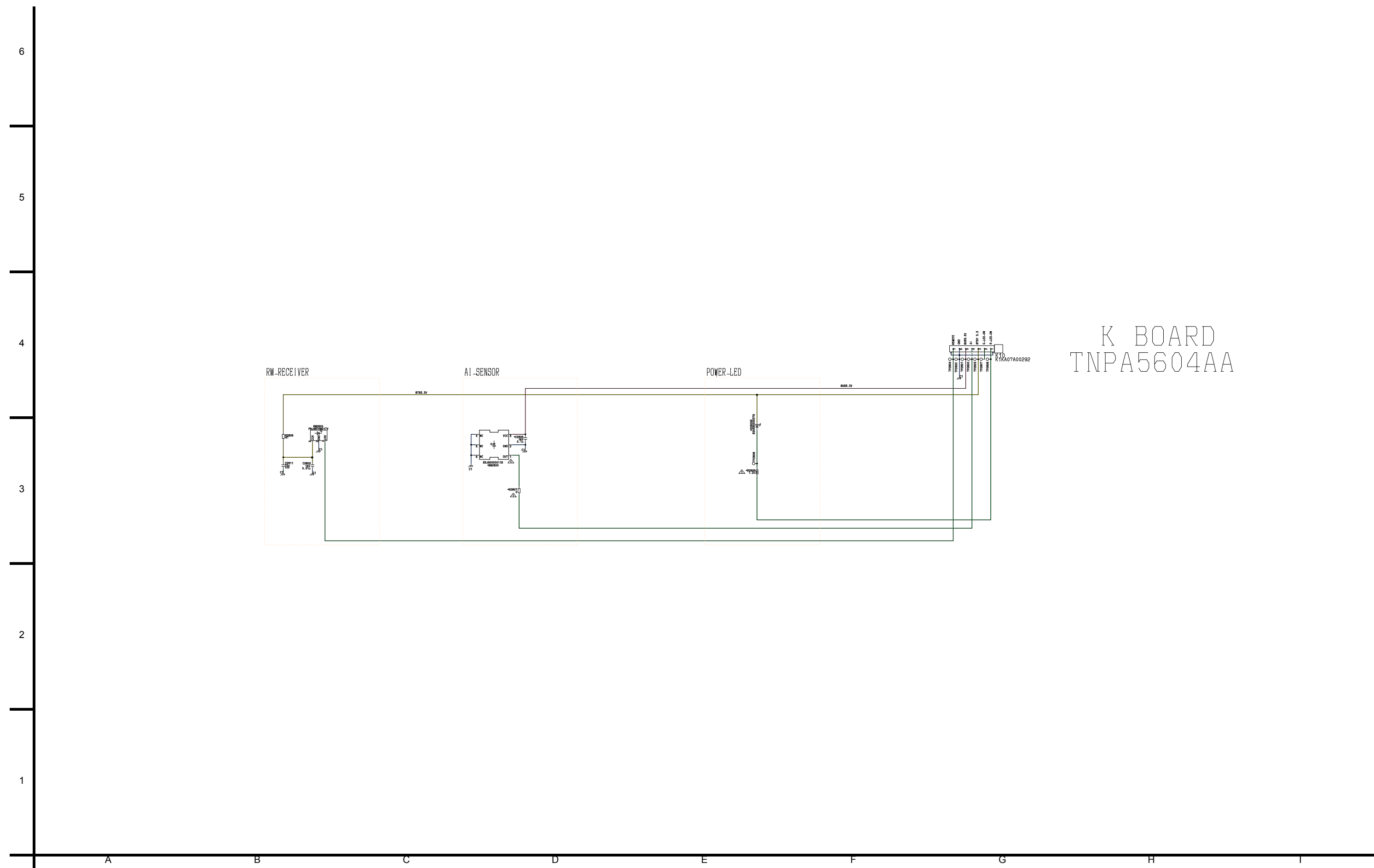


SHEET 706  
TUNER

### 11.19. GK-Board Schematic Diagram



### 11.20. K-Board Schematic Diagram



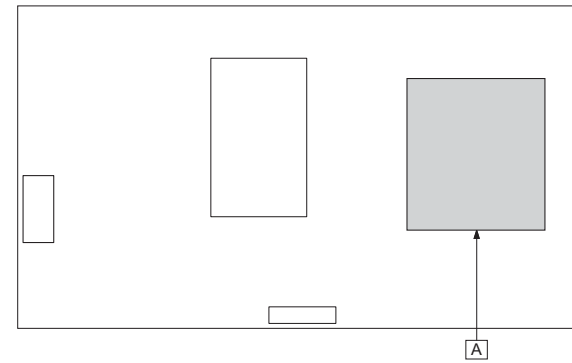
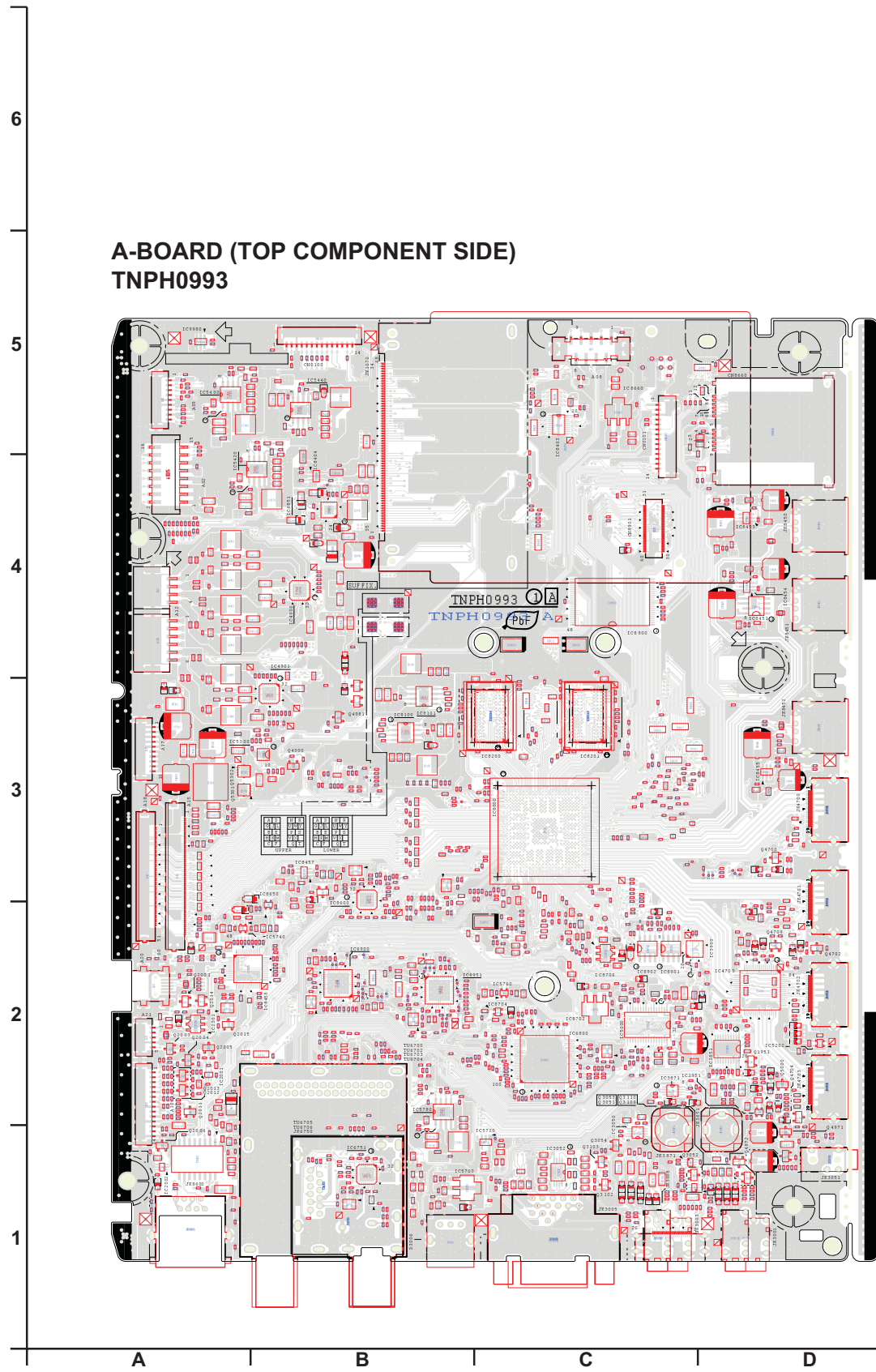
K BOARD  
TNPA5604AA





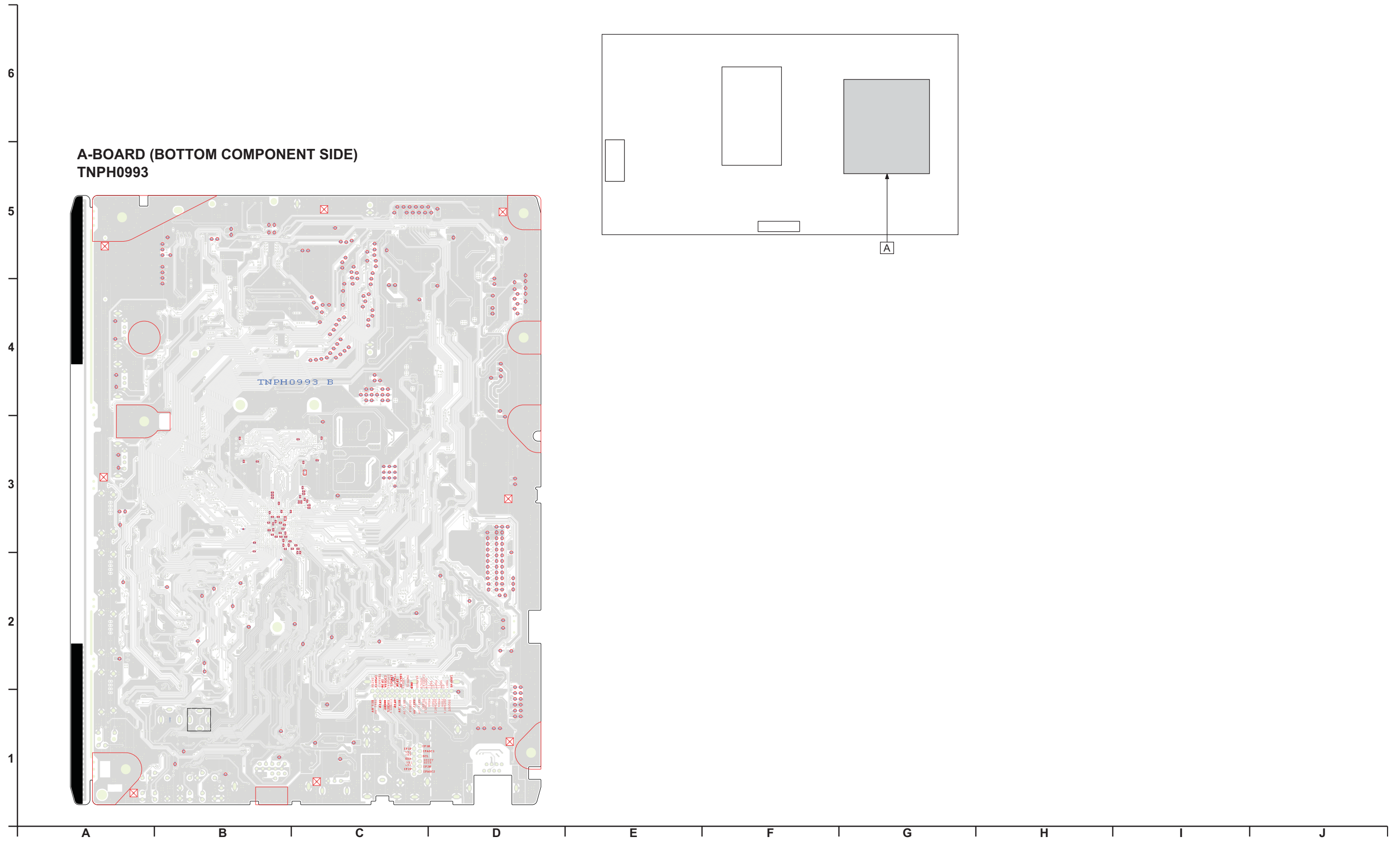
# 12 Printed Circuit Board

## 12.1. A-BOARD

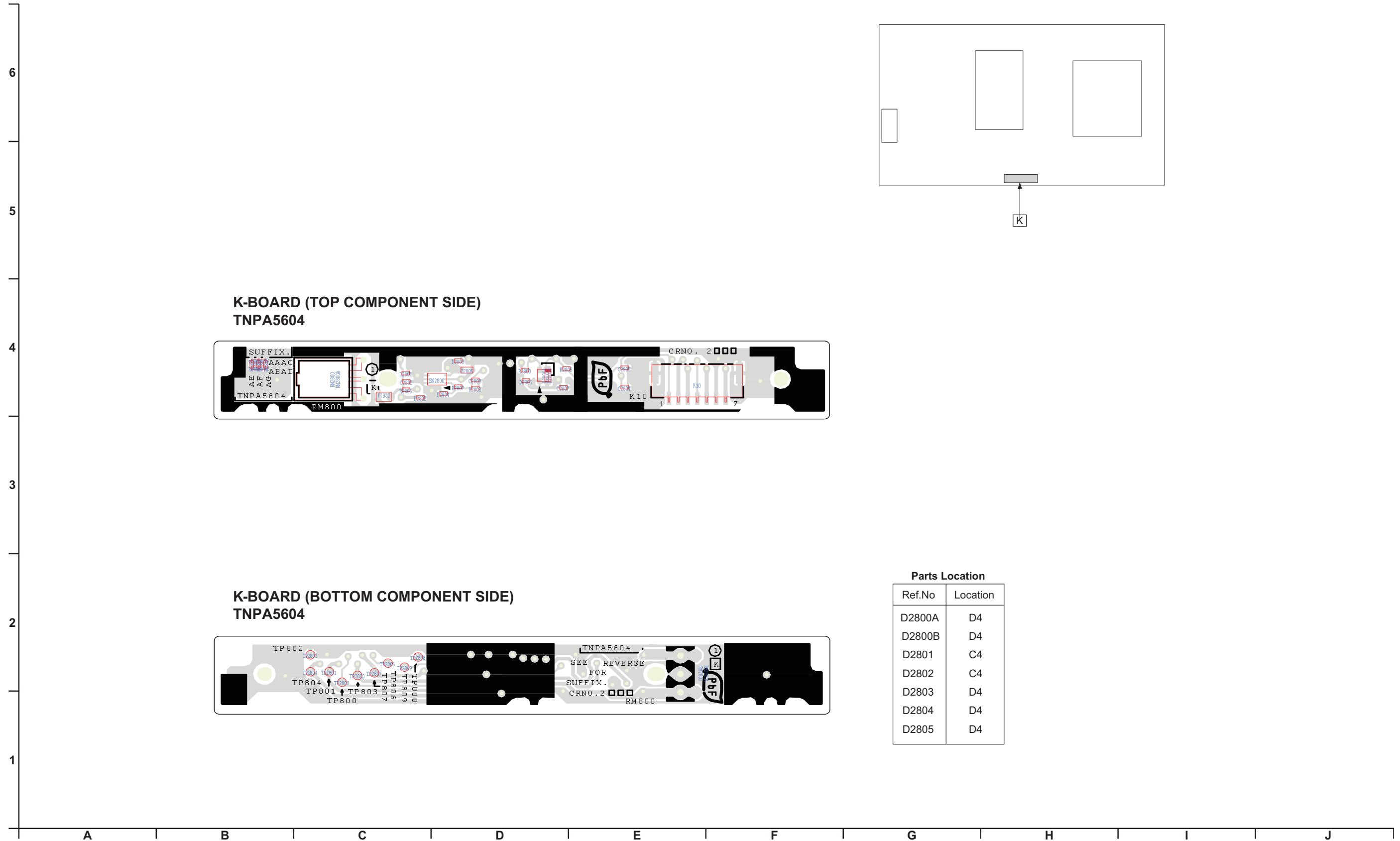


**Parts Location**

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC1951	D2	IC8100	B3	D1951	D2	D3100	D1	D5178	B2
IC2001	A2	IC8101	B3	D1952	D2	D3101	D1	D5179	B2
IC2002	A1	IC8200	C3	D1953	D2	D3102	D1	D5180	C2
IC2301	A2	IC8200A	C3	D1954	D2	D3103	D1	D5185	D2
IC3050	C2	IC8200B	C3	D1955	D2	D3104	D1	D5186	D2
IC3052	C1	IC8200C	C3	D2000	A2	D3105	D1	D5187	B3
IC3851	D2	IC8201	C3	D2001	A2	D3130	D1	D5188	B3
IC3871	C2	IC8201A	C3	D2002	A2	D3851	D2	D5191	B3
IC3900	D2	IC8201B	C3	D2003	A2	D3852	D2	D5201	D2
IC4700	D2	IC8201C	C3	D2004	A2	D3871	C2	D5207	D2
IC4900	B4	IC8403	C5	D2005	A1	D3872	C2	D5440	B5
IC4901	B4	IC8404	B4	D2006	A2	D3873	C2	D5700	B1
IC5000	C2	IC8451	D4	D2007	A2	D3874	D2	D6700	A2
IC5202	D2	IC8453	D4	D2008	A2	D3875	C2	D6750	B1
IC5300	A3	IC8454	D4	D2009	A2	D4702	D3	D6851	B4
IC5400	A5	IC8455	D3	D2010	A1	D4703	D3	D6852	B4
IC5420	A4	IC8457	B3	D2011	A1	D4704	D2	D6853	B4
IC5440	B5	IC8458	B2	D2016	A4	D4719	D2	D6854	B4
IC5700	B1	IC8600	B2	D2017	A5	D4720	D2	D6855	B4
IC5720	C1	IC8650	B3	D2300	A2	D4735	D1	D6856	B4
IC5740	B2	IC8660	C5	D3006	B1	D4736	D2	D8102	B3
IC5760	C2	IC8702	C2	D3050	C1	D4770	D2	D8650	B2
IC5780	B2	IC8704	C2	D3051	C1	D4771	D2	D8651	B2
IC6751	B1	IC8706	C2	D3052	C1	D4772	D2	D8702	C2
IC6800	C2	IC8900	B2	D3053	C1	D4785	C2	D8703	C2
IC6851	B4	IC8901	C2	D3054	C1	D5172	B4	D8704	C2
IC6900	B2	IC8902	C2	D3055	C1	D5173	B4	D8716	C2
IC6951	B2	IC9980	A5	D3056	C1	D5176	A3	D8850	C4
IC8000	C3			D3057	C1	D5177	A3	D8851	D2

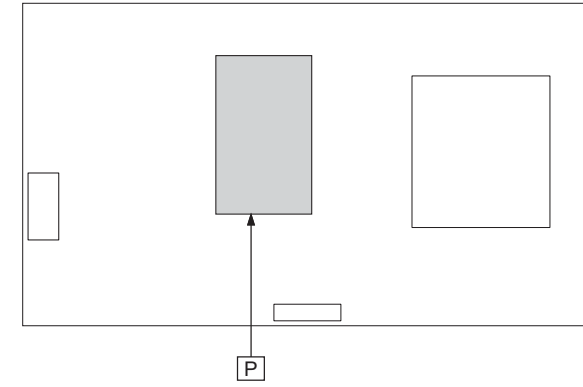
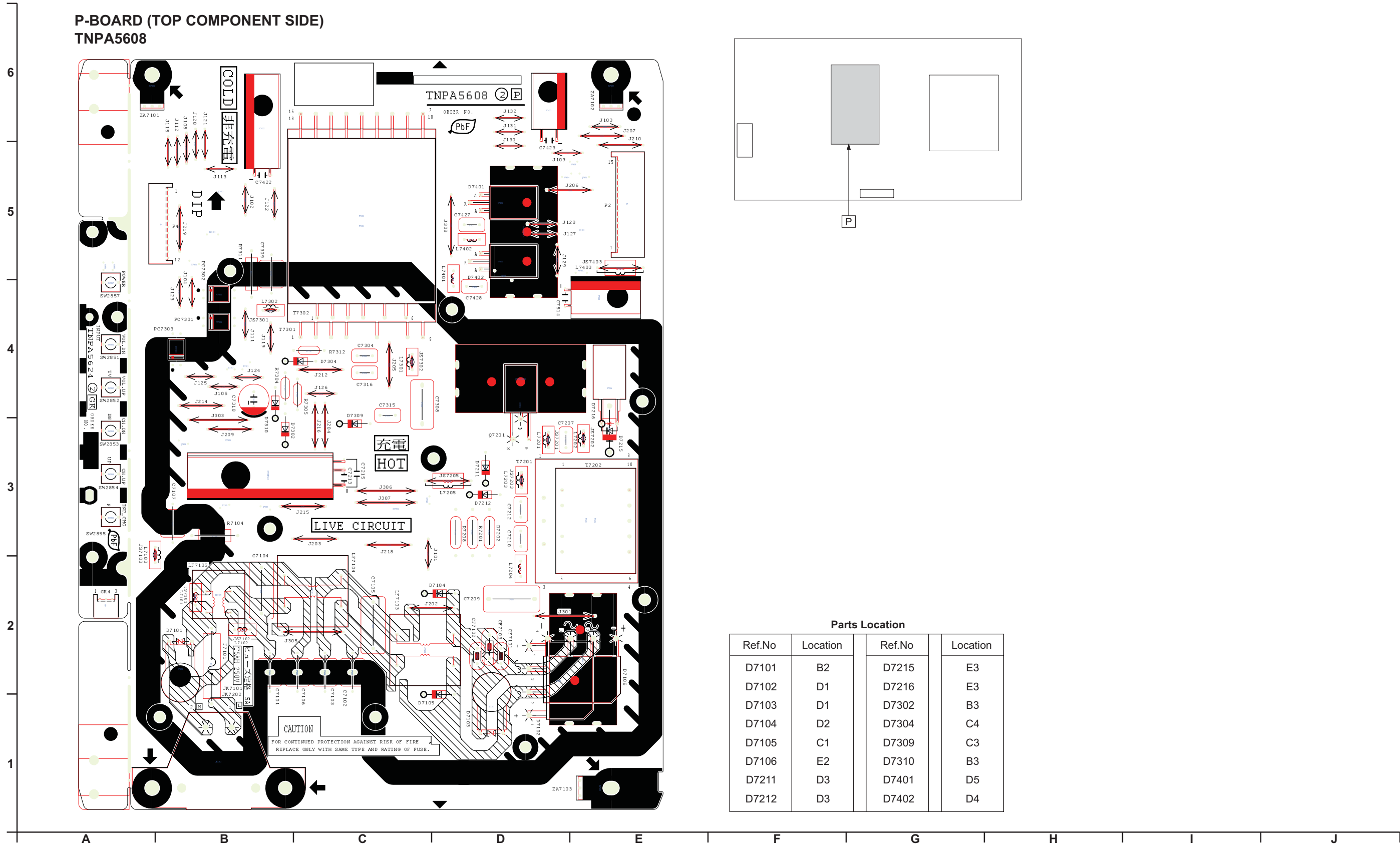


## 12.2. K-BOARD



### 12.3. P-BOARD

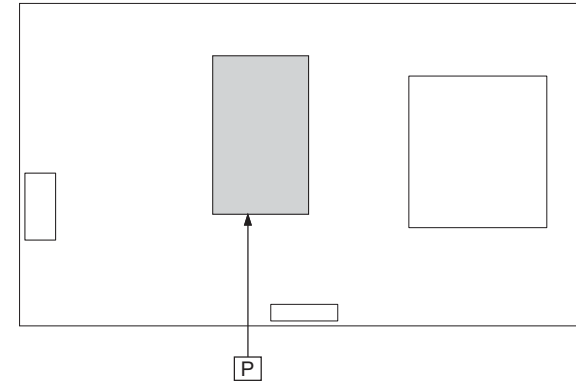
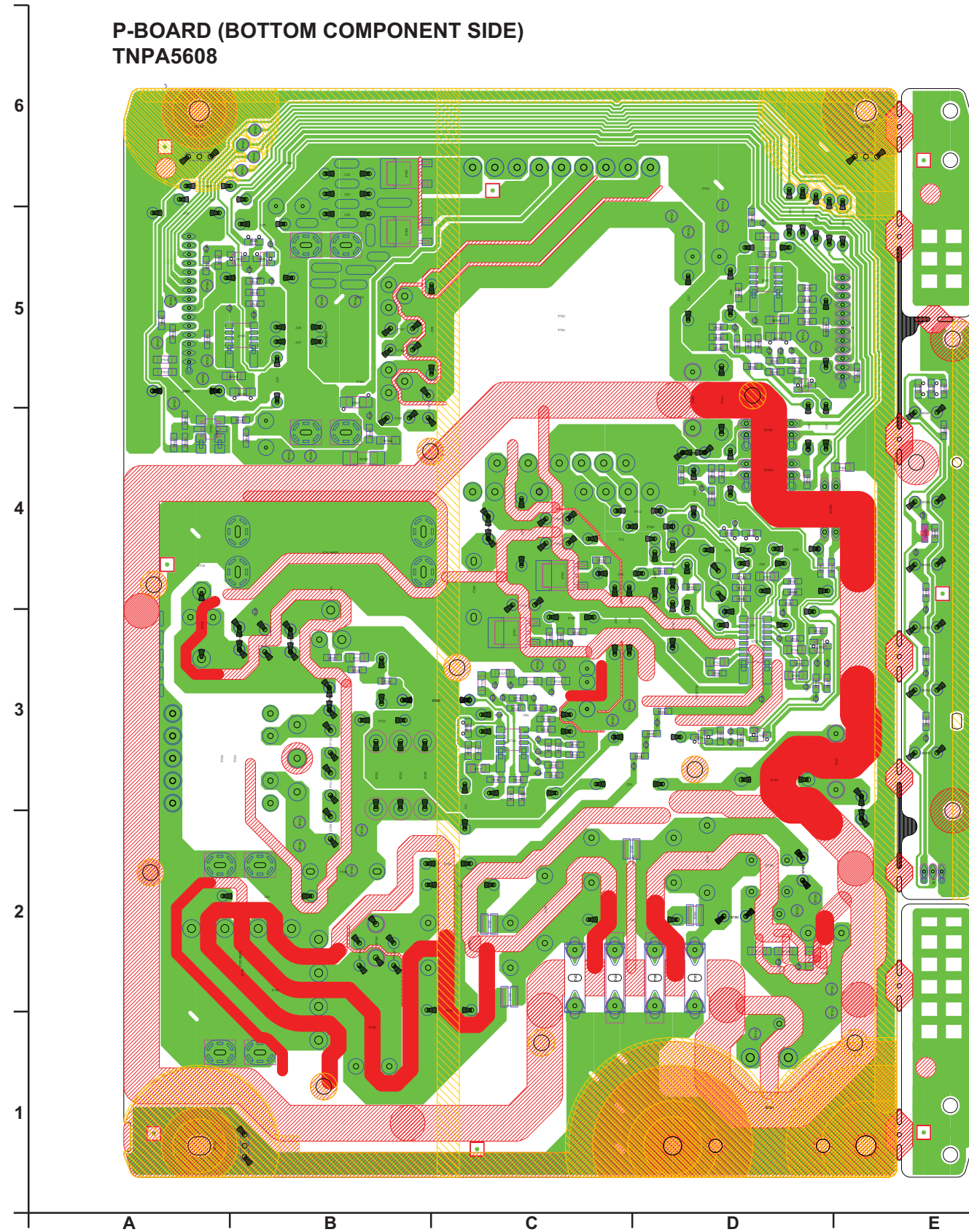
**P-BOARD (TOP COMPONENT SIDE)**  
**TNPA5608**



**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		



### 13.2.2. Electrical Replacement Parts List

**Note:** All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
C0900	F1G1H220A834	C 22PF , 50V		
C0902	F1G1H220A834	C 22PF , 50V		
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		
C3116	F1H0J105A051	C 1UF , 6.3V		
C3117	F1H0J105A051	C 1UF , 6.3V		
C3118	F1H0J105A051	C 1UF , 6.3V		
C3159	F1H1A105A099	C 1UF , 10V		
C3160	F1H1A105A099	C 1UF , 10V		
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		
C5000	F1G1A105A047	C 0.1UF , 50V		
C5002	F1G1A105A047	C 0.1UF , 50V		
C5004	F1G1A105A047	C 0.1UF , 50V		
C5006	F1J1E105A287	C 1UF , 25V		
C5012	F1G1A105A047	C 0.1UF , 50V		
C5020	F1G1C104A077	C 0.1UF , 16V		
C5021	F1G1A105A047	C 0.1UF , 50V		
C5022	F1G1A105A047	C 0.1UF , 50V		
C5026	F1H1C105A145	C 1UF , 16V		
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 , 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		

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	C6710	F1G1C104A077	C 0.1UF , 16V	
	C6712	F1G1C104A077	C 0.1UF , 16V	
	C6713	F1G1C104A077	C 0.1UF , 16V	
	C6715	F1G1C104A077	C 0.1UF , 16V	
	C6716	F1G1C104A077	C 0.1UF , 16V	
	C6733	F1G1C104A077	C 0.1UF , 16V	
	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	F1G1C104A077	C 0.1UF , 16V	
	C6770	F1G1C104A077	C 0.1UF , 16V	
	C6771	F1G1C104A077	C 0.1UF , 16V	
	C6772	F1G1C104A077	C 0.1UF , 16V	
	C6773	F1G1H220A834	C 22PF , 50V	
	C6774	F1G1H220A834	C 22PF , 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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	C8311	F1G1A105A047	C 1UF , 10V	
	C8312	F1G1A105A047	C 1UF , 10V	
	C8452	F1J1A106A087	C 10UF , 10V	
	C8453	F1G1C104A077	C 0.1UF , 16V	
	C8454	EEHBOJ221UP	C 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	EEHBOJ221UP	C 220UF , 6.3V	
	C8467	F1J1A106A087	C 10UF , 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8470	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	
		DIODES		
	D3006	K7AAAY000014	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	
	D7104	B0EAKR000022	DIODE	
	D7105	B0EAKR000022	DIODE	
	D7106	B0EBNR000047	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	



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7405	DA2J10100L	DIODE	
	D7407	B0JCPE000038	DIODE	
	D7408	B0JDSG000010	DIODE	
	D7409	B0JDSG000010	DIODE	
	D8716	B0ECKM000053	DIODE	
	D8850	DB2J30900L	DIODE	
		INTEGRATED CIRCUITS		
	IC4700	C1AB00003469	IC	
	IC4900	C1AB00003871	IC	
	IC5000	AN34043AAVF	IC	
	IC5300	C0DBZYY00544	IC	
	IC5400	C0DBAYY01299	IC	
	IC5420	C0DBAYY01299	IC	
	IC5440	C0DBAYY01283	IC	
	IC7201	C0DBBY00050	IC	
	IC7301	C0DBAYY01329	IC	
	IC7401	C0DBZYY00531	IC	
	IC7502	C0DBGYY03054	IC	
	IC8000	MN2WS0250B	IC	
	IC8100	C0DBAYY01283	IC	
	IC8101	C0DBAYY01285	IC	
	IC8200	C3ABUY000020	IC	
	IC8201	C3ABTY000075	IC	
	IC8453	C0DBZYY00541	IC	
	IC8454	C0DBZYY00541	IC	
	IC8600	C1CB00003736	IC	
	IC8660	C0DBEYY00102	IC	
	IC8702	C0DBEYY00102	IC	
	IC8706	C0DBGYY01682	IC	
	IC8900	TVRS757AAS	ROM VERSION ASSEMBLY	
	IC8902	TVRS763S	ROM VERSION ASSEMBLY	
		COILS		
	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	COIL	
	L5440	G1C3R3ZA0311	COIL	
	L6707	J0JGC0000020	CHIP BEADS	
	L6711	J0JHC0000046	CHIP BEADS	
	L6721	D0GAR00J0005	CHIP RESISTOR	
	L7103	J0JKB0000034	COIL	
	L7201	J0JKB0000034	COIL	
	L7202	J0JKB0000034	COIL	
	L7203	J0JKB0000034	COIL	
	L7401	J0JKB0000034	COIL	
	L7402	J0JKB0000034	COIL	
	L7403	EXCELSA39V	COIL	
	L8001	J0JCC0000287	BEAD CORE	
	L8002	J0JYC0000464	BEAD CORE	
	L8003	J0JKC0000021	BEAD CORE	
	L8004	J0JCC0000287	BEAD CORE	
	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	
	L8662	J0JHC0000045	COIL	
	L8663	D0GAR00J0005	CHIP RESISTOR	
	L8664	D0GAR00J0005	CHIP RESISTOR	
		TRANSISTORS		
	Q2011	B1ABCE000015	TRANSISTOR	
	Q2013	B1ABCE000015	TRANSISTOR	
	Q4700	B1ABCF000231	TRANSISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	Q4702	B1ABCF000231	TRANSISTOR	
	Q4704	B1ABCF000231	TRANSISTOR	
	Q4709	B1ABCF000231	TRANSISTOR	
	Q5301	B1CFRD000100	TRANSISTOR	
	Q5302	B1CFRD000100	TRANSISTOR	
	Q7201	B1CERR000057	TRANSISTOR	
	Q7202	B1ADCE000022	TRANSISTOR	
	Q7301	B1CFRR000018	TRANSISTOR	
	Q7302	B1CFRR000018	TRANSISTOR	
	Q7303	B1ADCE000022	TRANSISTOR	
	Q7401	B1ABCF000231	TRANSISTOR	
	Q7402	B1CHRE000005	TRANSISTOR	
	Q7403	B1CHRE000005	TRANSISTOR	
		RESISTORS		
	R0900	D0GA220JA023	C 220HM ,J, 1/16W	
	R0901	D0GA220JA023	C 220HM ,J, 1/16W	
	R0903	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0904	D0GA473JA023	C 47KOHM ,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 220HM ,J, 1/16W	
	R0917	D0GA220JA023	C 220HM ,J, 1/16W	
	R0918	D0GA220JA023	C 220HM ,J, 1/16W	
	R0919	D0GA220JA023	C 220HM ,J, 1/16W	
	R0932	D0GA220JA023	C 220HM ,J, 1/16W	
	R0933	D0GA220JA023	C 220HM ,J, 1/16W	
	R0938	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R0940	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R0946	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R0948	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R0951	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0952	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0953	D0GA272JA023	C 2.7KOHM ,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 680HM ,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	
	R2060	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2061	D0GA223JA023	C 2.7KOHM ,J, 1/16W	
	R2066	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2803	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2805	D1BA1201A023	1.2KOHM , 1/16W	
	R2806	D0GA470JA023	C 47OHM ,J, 1/16W	
	R2807	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	
	R3118	D0GA473JA023	C 47KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R3119	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3120	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3121	D1BB1403A106	C 140KOHM ,J, 1/16W	
	R3122	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3123	D1HY2204A012	C 22OHM ,J, 1/16W	
	R3127	D0GA220JA023	C 22OHM ,J, 1/16W	
	R3157	D1HY2204A012	C 22OHM ,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	
	R3189	D1BB1403A106	C 140KOHM ,J, 1/16W	
	R3201	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3871	D0GAR00J0005	C 00HM ,J, 1/16W	
	R3966	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4068	D0GAR00J0005	C 00HM ,J, 1/16W	
	R4080	D0GAR00J0005	C 00HM ,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	
	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 00HM ,J, 1/16W	
	R4901	D1HY680A012	68OHM , 1/16W	
	R4906	D0GA822JA023	8.2KOHM ,J, 1/16W	
	R4907	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4908	D0GA102JA023	C 1KOHM ,J, 1/16W	

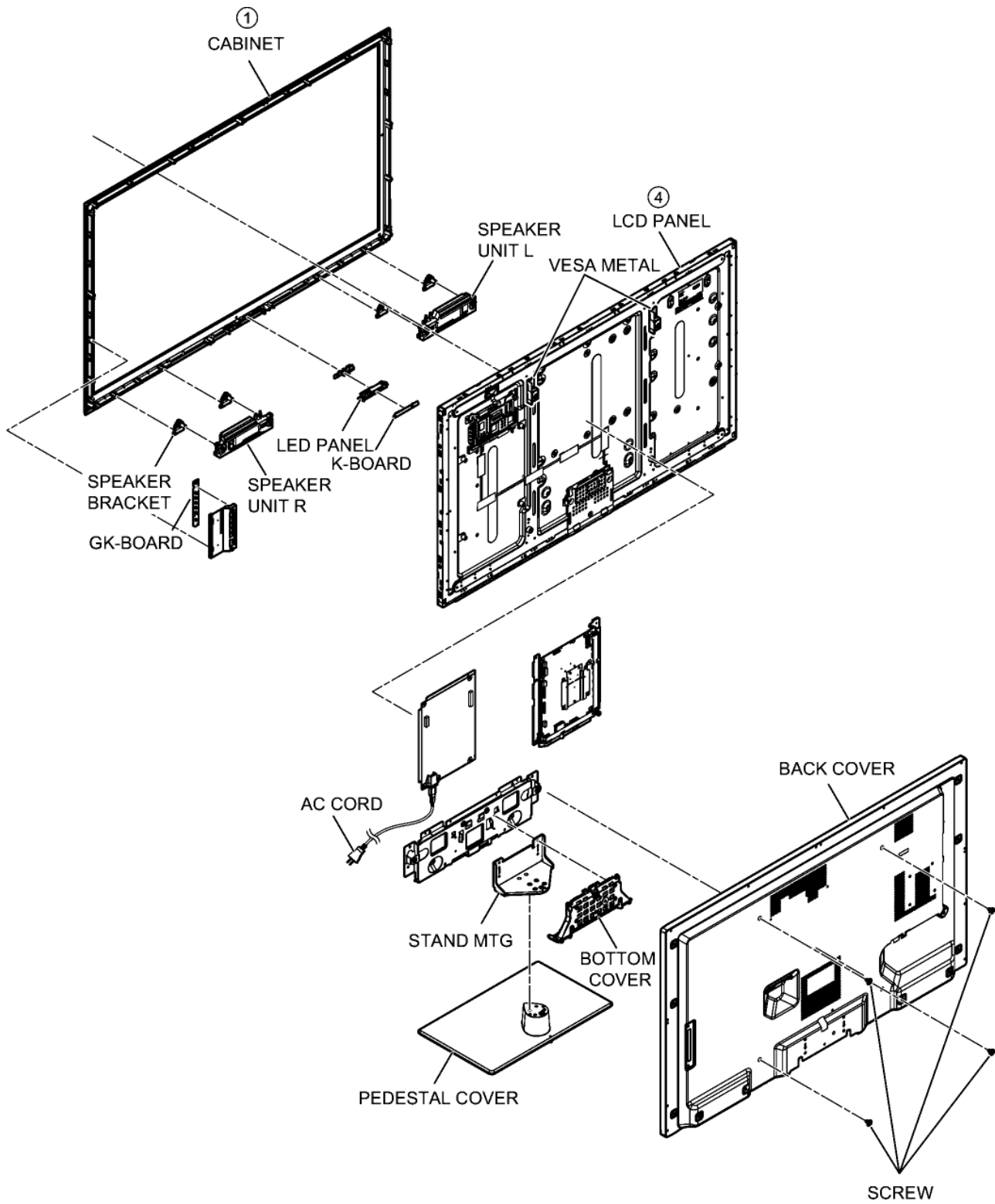
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4913	D0GAR00J0005	C 00HM ,J, 1/16W	
	R4914	D0GAR00J0005	C 00HM ,J, 1/16W	
	R4955	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4956	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4981	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5002	D0GA683JA023	C 68OHM ,J, 1/16W	
	R5003	D0GA103JA023	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	
	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	
	R5302	D1BB1962A055	C 19.6KOHM , 1/16W	
	R5303	D0GB102ZA038	1KOHM , 1/16W	
	R5304	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5306	D0GA302JA023	C 3KOHM ,J, 1/16W	
	R5307	D0GA132JA023	1.3KOHM ,J, 1/16W	
	R5308	D0GA392JA023	C 3.9KOHM ,J, 1/16W	
	R5309	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R5310	D0GAR00J0005	C 00HM ,J, 1/16W	
	R5311	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R5400	D0GAR00J0005	C 00HM ,J, 1/16W	
	R5401	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R5402	D0GB911ZA037	C 910OHM , 1/16W	
	R5403	D1BB2871A106	C 2.87KOHM , 1/16W	
	R5420	D0GAR00J0005	C 00HM ,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 00HM ,J, 1/16W	
	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	ERX1SJR22V	0.22OHM ,J, 1W	
⚠	R7202	ERX1SJR22V	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	D0GD100JA059	C 22OHM ,J, 1/4W	
	R7207	D0GD104JA052	C 100KOHM ,J, 1/16W	
⚠	R7208	ERX1SJR22V	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	ERJ8ENF1504V	C 1.5MOHM ,J, 1/16W	
	R7226	ERJ8ENF1504V	C 1.5MOHM ,J, 1/16W	
	R7227	ERJ8ENF1504V	C 1.5MOHM ,J, 1/16W	
	R7228	ERJ8ENF1504V	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	NETWORK RESISTOR	
	R8242	D1HY2204A012	NETWORK RESISTOR	
	R8243	D1HY2204A012	NETWORK RESISTOR	
	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	
	R8450	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8451	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8454	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8455	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8457	D1BA3742A014	C 37.4KOHM , 1/16W	
	R8458	D1BA3742A014	C 37.4KOHM , 1/16W	
	R8469	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8470	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8601	D1BA75R0A023	75OHM , 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	120OHM , 1/16W	
	R8674	D1BB2000A055	C 56OHM ,J, 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	D0GA473JA023	C 47KOHM ,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	
	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 47KOHM ,J, 1/16W	
	R8909	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R8910	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8911	EXB2HV121JV	120OHM ,J, 1/16W	
	R9902	D0GA101JA023	C 100OHM ,J, 1/16W	
	R9903	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9905	D0GAR00J0005	C 0OHM ,J, 1/16W	
			TRANSFORMERS	
⚠	T7202	G4DYA0000368	INDUCTOR	
⚠	T7301	G4DYA0000372	TRANSFORMER	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	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	
	D2800B	B3AAB0000379	LED	
⚠	F7101	K5E502YY0001	FUSE	
	FL4000	JOZZB0000147	FILTER	
	FL4001	JOZZB0000147	FILTER	
	FL4002	JOZZB0000147	FILTER	
	FL4003	JOZZB0000147	FILTER	
	FL4004	JOZZB0000147	FILTER	
	FL4005	JOZZB0000147	FILTER	
	GK4	K1KA03BA0061	CONNECTOR	
	J218	D0AF2R2JA112	RESISTOR	
	JK3001	K2HE2YYB0001	AV TERMINAL	
	JK3005	K1FY315B0002	AV TERMINAL	
	JK4700A	K1FY119E0050	AV TERMINAL	
	JK4701	K1FY119E0049	CONNECTOR	
	JK4702	K1FY119E0049	CONNECTOR	
	JK4703	K1FY119E0049	CONNECTOR	
	JK7202	K2AEYB000001	INLET/OUTLET (FOR AC POWER SOURCE)	
	JK8450	K1FY104B0081	AV TERMINAL	
	JK8451	K1FY104B0081	AV TERMINAL	
	JK8600	K2LC1YYE0003	AV TERMINAL	
	JS0038	D0GAR00J0005	CHIP RESISTOR	
	JS0062	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 (MX-7;15" & 21")	
	SW2852	EVQ11G05R	SWITCH (MX-7;15" & 21")	
	SW2853	EVQ11G05R	SWITCH (MX-7;15" & 21")	
	SW2854	EVQ11G05R	SWITCH (MX-7;15" & 21")	
	SW2855	EVQ11G05R	SWITCH (MX-7;15" & 21")	
	SW2857	EVQ11G05R	SWITCH (MX-7;15" & 21")	
⚠	TU6706	J3ACAAB00007	TUNER	
	X8300	H0J245500110	24.576MHz	
	X8600	H0J250500120	25MHz XTAL NDK	
	ZA0050	K4AD01D00008	TERMINAL	
	ZA0051	K4AD01D00008	TERMINAL	
	ZA0052	K4AD01D00008	TERMINAL	
	ZA7101	K4AD01A00003	TERMINAL	
	ZA7103	K4AD01A00003	TERMINAL	

**Model No. : TC-L42E5X Parts Location**

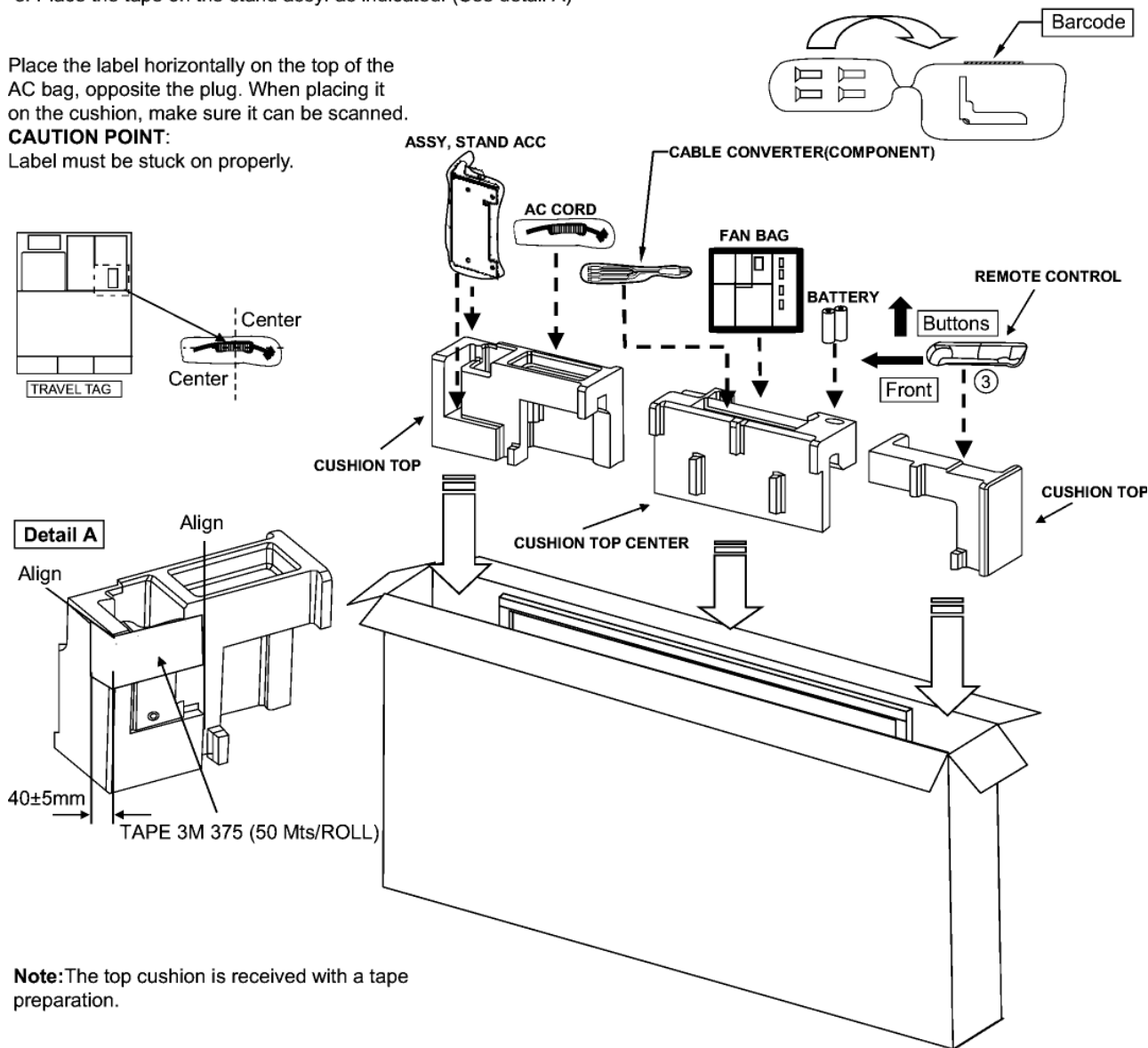


## Model No. : TC-L42E5X Packing Exploded View 1

1. Place the cushions in the positions indicated.
2. Place the remote control in the top cushion.
3. Place the AC cord in the position indicated.
4. Place the fan bag in the central cushion
5. Place the stand in the position indicated. It will be received ready, with screws.
6. Place the batteries in the position indicated.
7. Place the cable converter in the position indicated.
8. Place the tape on the stand assy. as indicated. (See detail A)

Place the label horizontally on the top of the AC bag, opposite the plug. When placing it on the cushion, make sure it can be scanned.

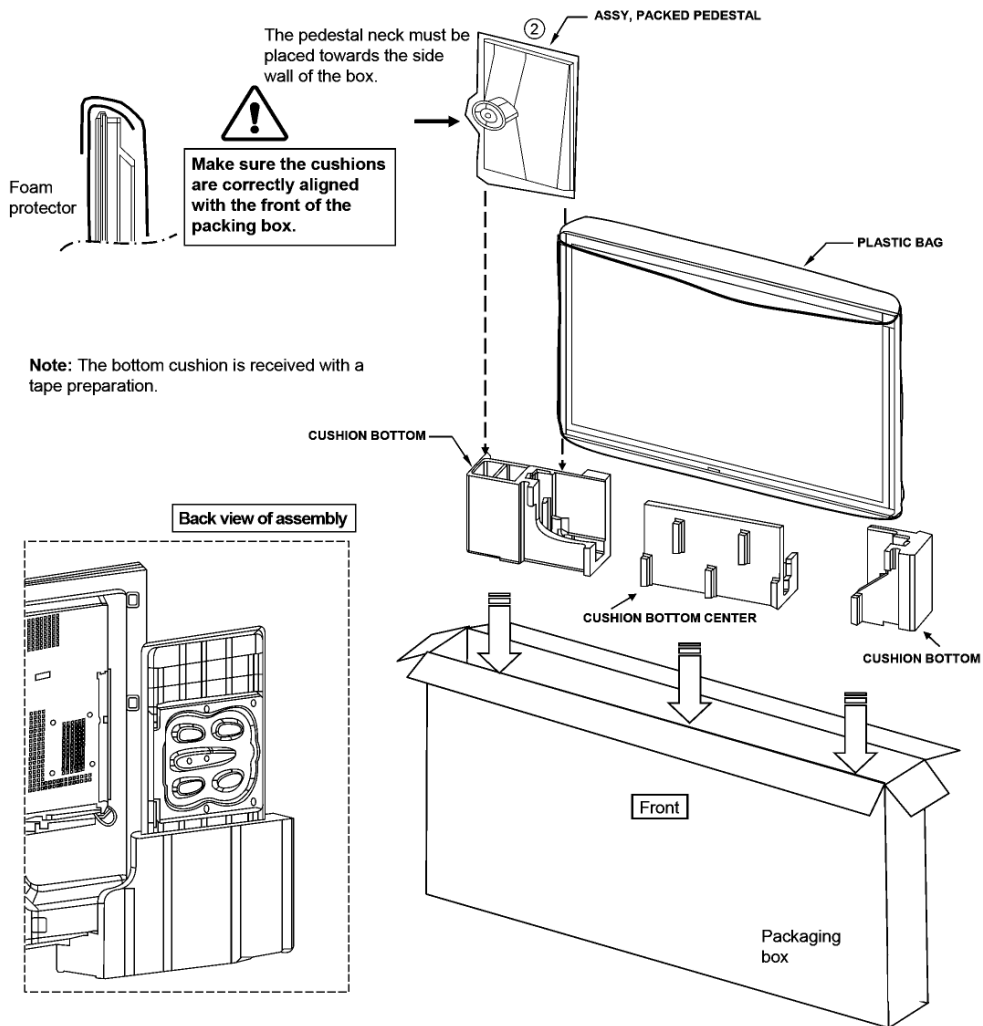
**CAUTION POINT:**  
Label must be stuck on properly.



**Note:** The top cushion is received with a tape preparation.








## Model No. : TC-L42E5X Packing Exploded View 2

1. Place the bottom cushions in the box
2. Place the set inside the protective bag
3. Place the pedestal on the left-hand bottom cushion
4. Slide the set into the bottom cushions



**Note:** The bottom cushion is received with a tape preparation.

## Model No. : TC-L42E5X Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	TXFKY5Z0311	CABINET ASSY		
		TKZ5ZX5006-1	LED BRACKET ASSY		
		TXFKK5Z0004	LED PANEL ASSY		
		TUA5ZA04301	METAL CH FRAME R		
		TUA5ZA03201	METAL CH FRAME L		
		TXFKU2512SER	BACKCOVER COMPLETE ASSY		
		TSCFF0030012	LVDS CABLE		
		TKZ5ZX5011	METAL BRACKET BOTTOM		
		TKZ5ZX5006	VESA METAL		
		TKZ5ZF50071	METAL AV BRACKET BTM		
		TKZ5ZF50035	METAL AV BRACKET SIDE		
		TKP5ZA13801	BOTTOM COVER		
		TBX5ZA00601	KEY BUTTON		
		TBL5ZX03031	STAND MTG ACCESORRIES ASSY		
	2	TBL5ZX0268	PACKED PEDESTAL ASSY		
	3	N2QAYB000705	REMOTE TRANSMITTER		
	4	L5EDDY00359	LCD PANEL		
		L0EYAA000007	SPEAKER UNIT R		
		L0EYAA000006	SPEAKER UNIT L		
		K2KYYYY00199	CABLE CONVERTER		
		K2CB2YY00065	AC CORD		
<b>Electrical Replacement Part List</b>					
	RTL	TXNGK1SLUU	GK PRINT		
	RTL	TXN/P1PTUX	P PRINT		
	RTL	TXN/K1SKUUS	K PRINT		
	RTL	TXN/A1PTUXS	A PRINT		