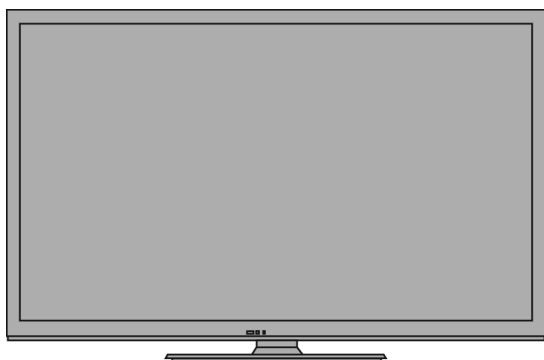


Service Manual

LED TV



Model No. TH-L50EM5S

Chassis: KM19

Destination: SINGAPORE

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

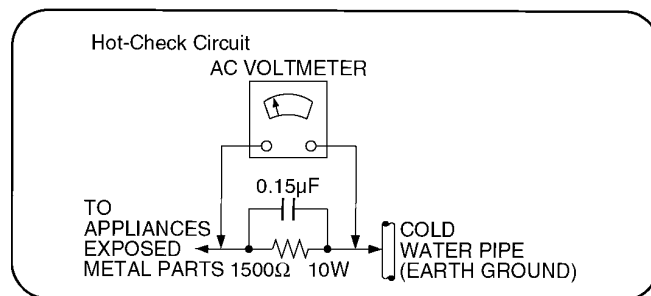


Figure 1

2 Warning

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

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

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

Caution

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

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

2.2. About lead free solder (PbF)

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

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

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

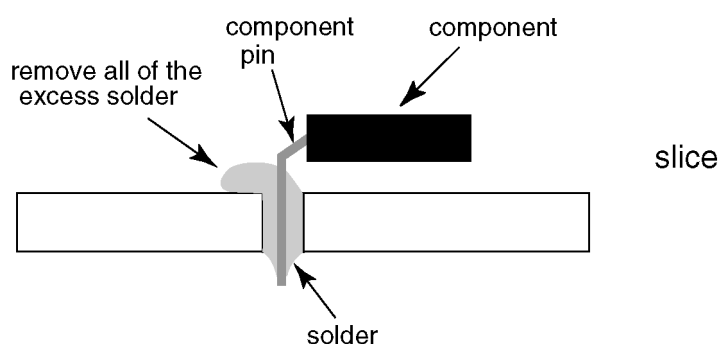
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

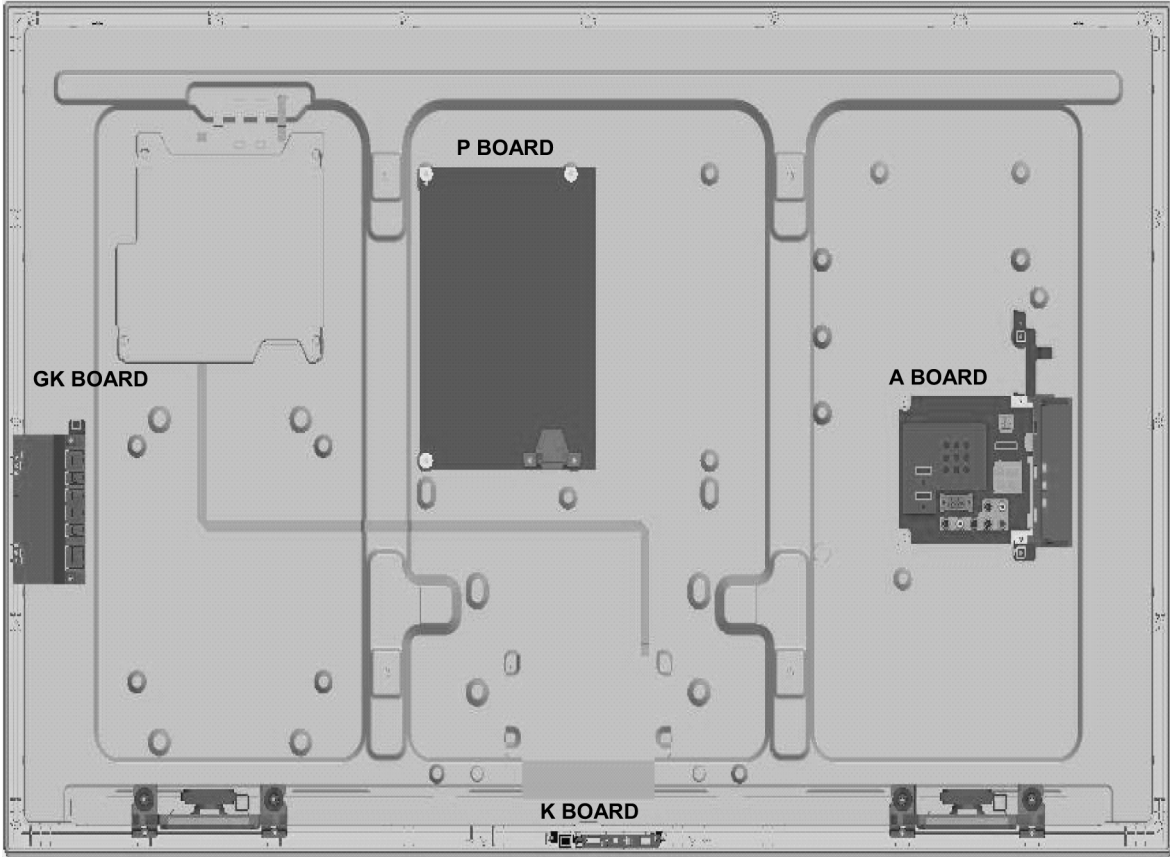
Caution

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



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, EEP, SPI, MTK IC, AUDIO SELECTOR IC	Repairable
P BOARD	Power Supply, Power Switch	Repairable
K BOARD	Remote, LED, Luminence Sensor	Repairable
GK BOARD	Power Switch, Keyscan	Repairable

4 Specifications

Power Source	AC 110 - 240 V, 50 / 60 Hz
Power Consumption	
Power Rating	98 W
Standby Condition	0.25 W
Display panel	
Panel system	TFT LCD Module with LED Backlight
Visible screen size (diagonal)	126 cm / 50 inches
Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Dimensions (W × H × D)	1,159 mm × 738 mm × 298 mm (With Pedestal)
	1,159 mm × 693 mm × 69 mm (TV only)
Mass	21.0 kg Net (With Pedestal)
	17.5 kg Net (TV only)

Sound	
Speaker	(100 mm × 30 mm) × 2, 8 Ω
Audio Output	20 W (10 W + 10 W)

Receiving Systems / Band name	17 SYSTEMS	FUNCTIONS
	1 PAL B, G, H	
	2 PAL I	
	3 PAL D, K	
	4 SECAM B, G	Reception of broadcast transmissions and
	5 SECAM D, K	Playback from Video Cassette Tape
	6 SECAM K1	Recorders
	7 NTSC M (NTSC 3.58 / 4.5 MHz)	
	Digital TV: 7 MHz VHF / 8 MHz UHF free-to-air TV broadcast reception	
	8 NTSC 4.43 / 5.5 MHz	
	9 NTSC 4.43 / 6.0 MHz	
	10 NTSC 4.43 / 6.5 MHz	
	11 NTSC 3.58 / 5.5 MHz	Playback from Special VCR's or DVD
	12 NTSC 3.58 / 6.0 MHz	
	13 NTSC 3.58 / 6.5 MHz	
	14 SECAM I	
	15 PAL 60 Hz / 5.5 MHz	Playback from Special Disc Players and
	16 PAL 60 Hz / 6.0 MHz	Special VCR's or DVD
	17 PAL 60 Hz / 6.5 MHz	

Receiving Channels (Analogue TV)

VHF BAND

- 2 - 12 (PAL / SECAM B, K1)
- 0 - 12 (PAL B AUST.)
- 1 - 9 (PAL B N.Z.)
- 1 - 12 (PAL / SECAM D)
- 1 - 12 (NTSC M Japan)
- 2 - 13 (NTSC M USA)

UHF BAND

- 21 - 69 (PAL G, H, I / SECAM G, K, K1)
- 28 - 69 (PAL B AUST.)
- 13 - 57 (PAL D, K)
- 13 - 62 (NTSC M Japan)
- 14 - 69 (NTSC M USA)

CATV

- S1 - S20 (OSCAR)
- 1 - 125 (USA CATV)
- C13 - C49 (JAPAN)
- S21 - S41 (HYPER)
- Z1 - Z37 (CHINA)
- 5A, 9A (AUST.)

Aerial - Rear

Operating Conditions

VHF / UHF
Temperature : 0°C - 40°C
Humidity : 20 % - 80 % RH (non-condensing)

Connection Terminals

AV1 IN	AUDIO L - R COMPONENT	RCA PIN Type × 2	0.5 V[rms]
		Y	1.0 V [p-p] (including synchronisation)
		P _B /C _B , P _R /C _R	±0.35 V[p-p]
AV2 IN	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
	AUDIO L - R VIDEO	RCA PIN Type × 2	0.5 V[rms]
		RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
HDMI 1 / 2 input PC	TYPE A Connectors		
	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(compressed)		
	Horizontal scanning frequency 31 - 69 kHz		
	Vertical scanning frequency 60 Hz		
	USB 2.0 TYPE A Connectors		
USB	DC 5 V, Max. 500 mA		
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fibre optic		

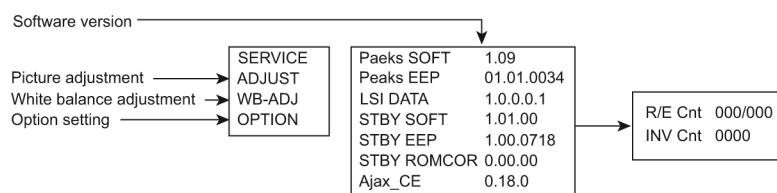
Note

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

5 Service Mode

5.1. How to enter into Service Mode

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



5.1.1. Contents of adjustment mode

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

Main item	Sub item	Sample Data
ADJUST	CONTRAST	000
	COLOR	59
	TINT	FE
	SUB-BRT	800
	BACKLGT	20D
	B-Y-G	40
	R-Y-A	0
	VCOM	189
WB-ADJ	R-GAIN	75
	G-GAIN	80
	B-GAIN	65
	R-CENT	80
	G-CENT	80
	B-CENT	9B
OPTION	1.2 : MAIN SELECT	
	VOL	
	OK WRITE	

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. 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].

5.2.2. Exit

1. Disconnect the AC cord from wall outlet.

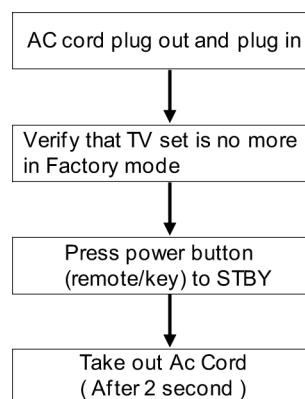
5.2.3. Self Check Mode

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.

5.2.4. Self Check (Device)

Item	
TUN	OK
MEM	OK

NOTE: After self check,the following process need to follow.



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
TUN	OK	
MEM	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:

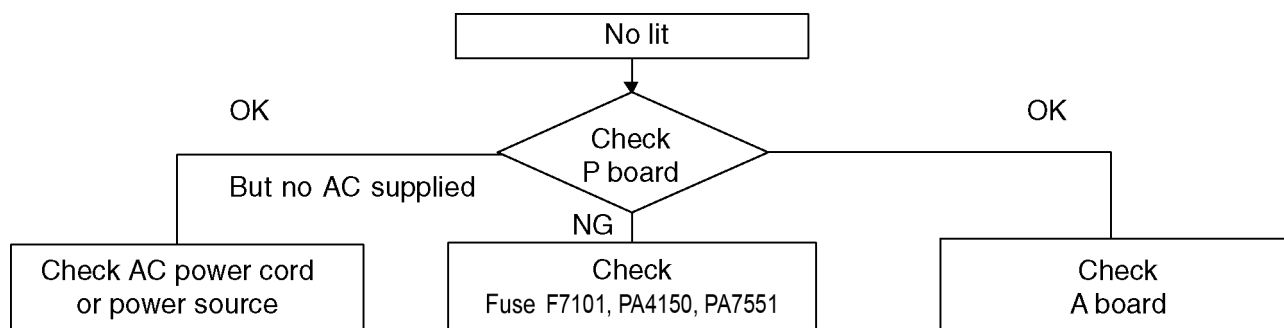
Priority	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	POWER_SOS	SOS from POWER Circuit	3
3	SOUND_SOS	SOS from audio AMP	9

6.3. No Power

First check point

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

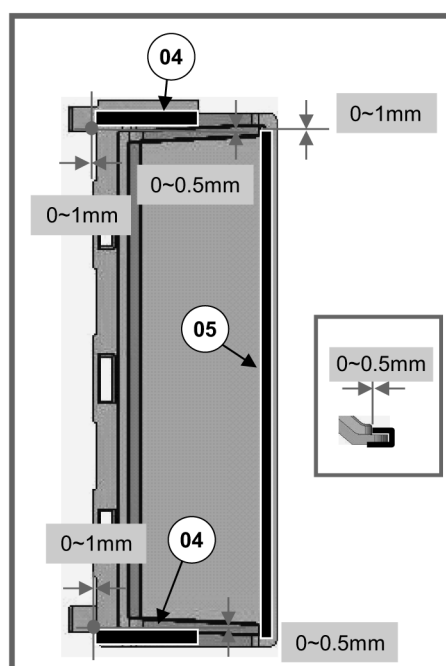
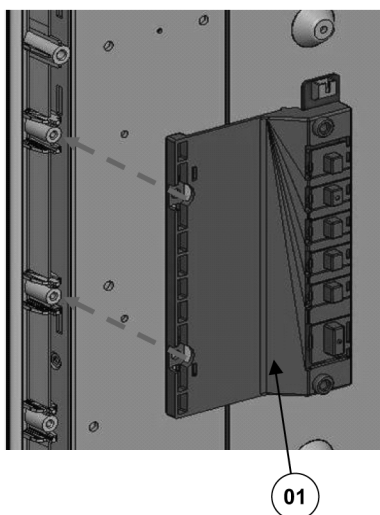
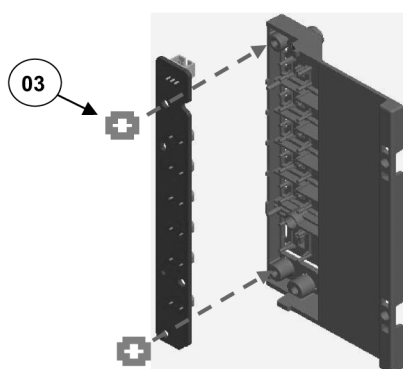
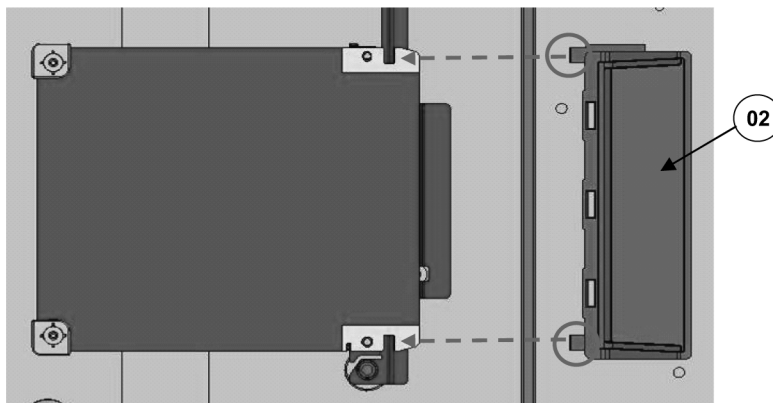
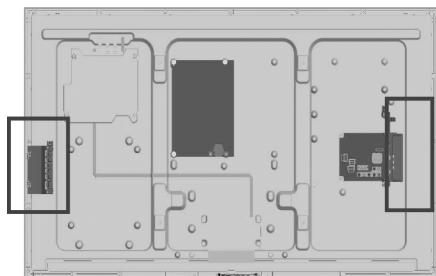
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Control Button & Side AV Bracket

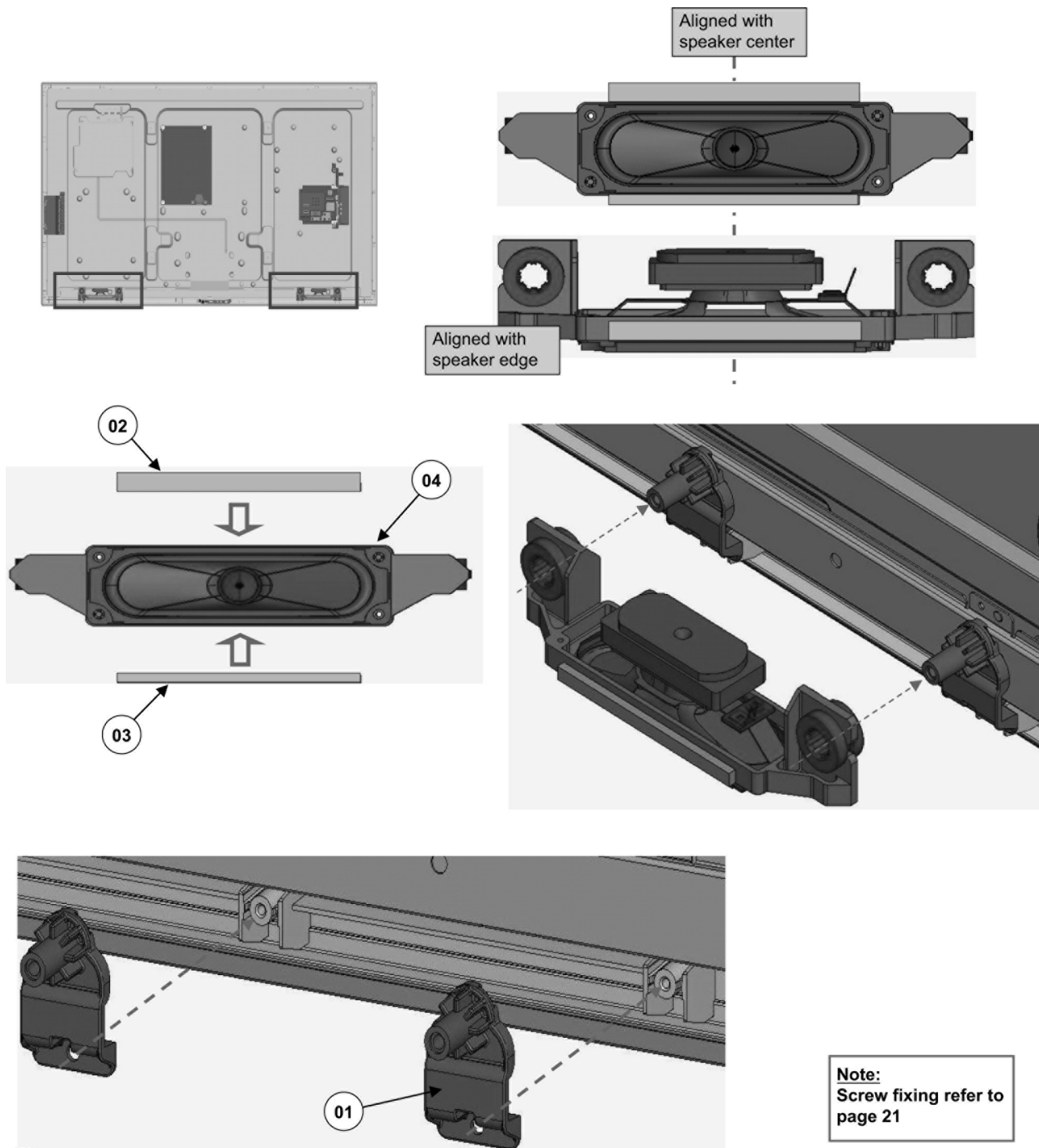
1. Install K-board to control button and fix with screw.
2. Stick felt and sponge to side AV bracket.
3. Install side AV bracket.
4. Install control button and fix it with screw.



No	Part No	Description	Qty	UOM	Remarks
01	TBX5ZA00601	CONTROL BUTTON	1	PC	
02	TKP5ZA24201	SIDE AV BRACKET	1	PC	
03	XTW3 + 8TFJ	SCREW (CTRL BTN2)	2	PC	6 ± 1 kgf.cm
04	TMK4GA301	FELT (8 × 25 × 0.35t)	2	PC	
05	TMK4GA302	FELT (8 × 110 × 0.35t)	1	PC	
06	TMK4GK037	SPONGE	1	PC	

7.2. Speaker

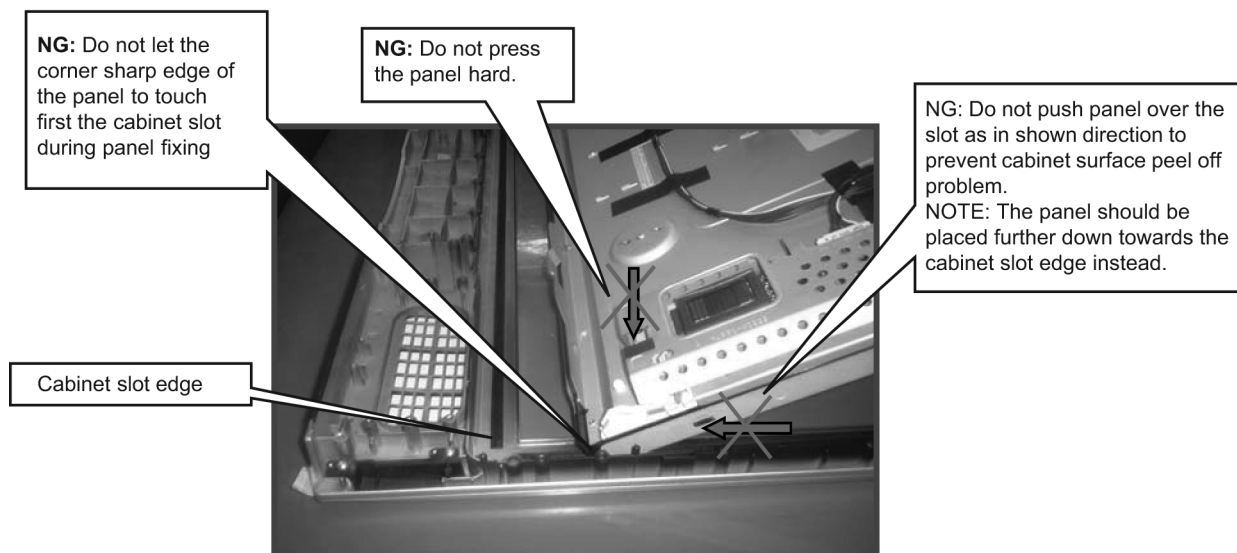
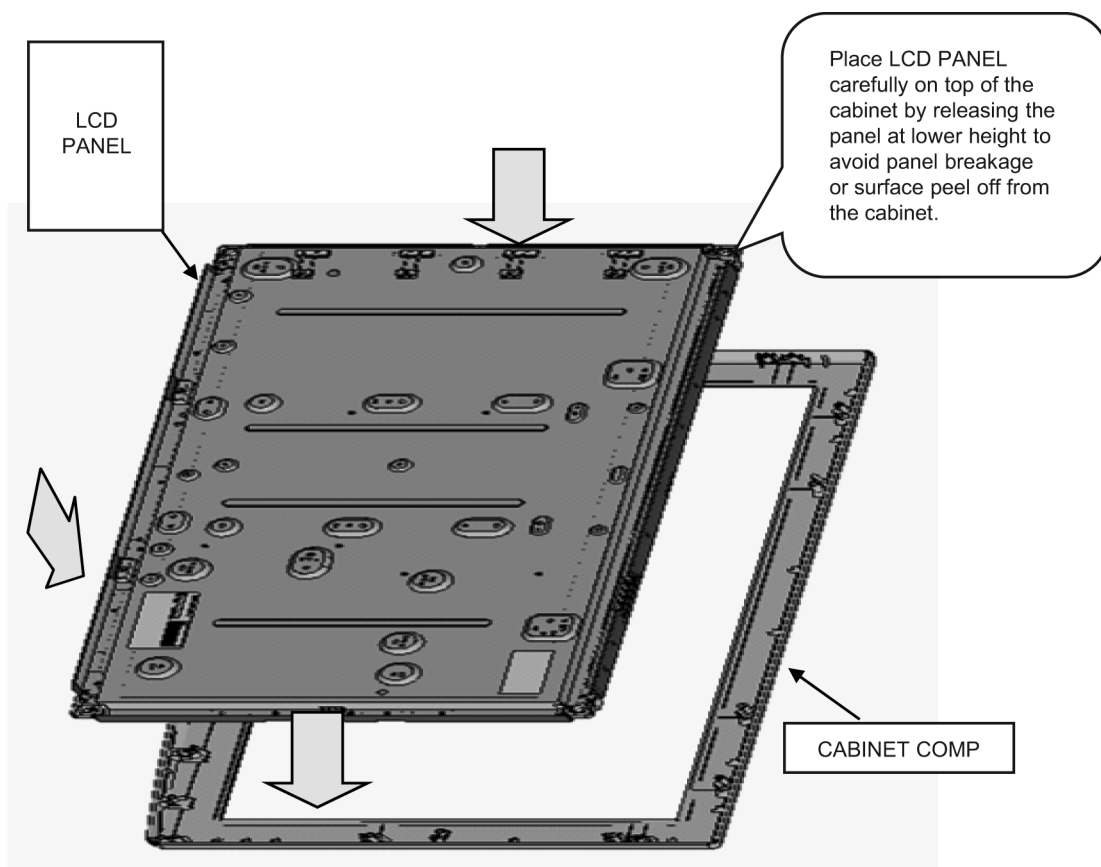
1. Stick sponge at front and rear of speaker unit.
2. Put the speaker bracket by inserting pins into the holes of the panel and fix with screw.
3. Insert the speaker unit on the speaker brackets.



No	Part No	Description	Qty	UOM
01	TKX5ZA02501	SP BRACKET	4	PC
02	TMK4GG081	SPONGE (10 × 100 × 10t)	2	PC
03	TMK4GG082	SPONGE (10 × 100 × 5t)	2	PC
04	L0AA09B00006	SPEAKER UNIT	2	PC

7.3. LCD Panel Fixing & Handling Method

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

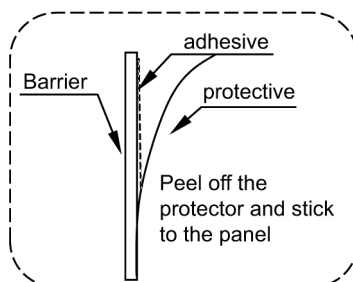
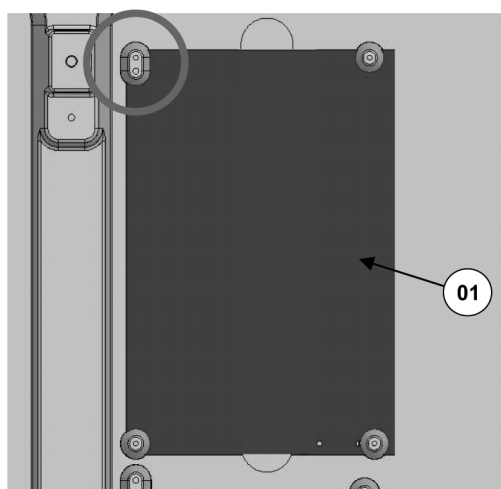
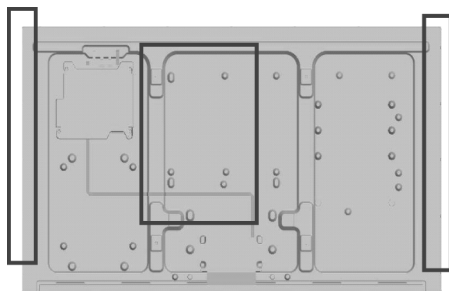


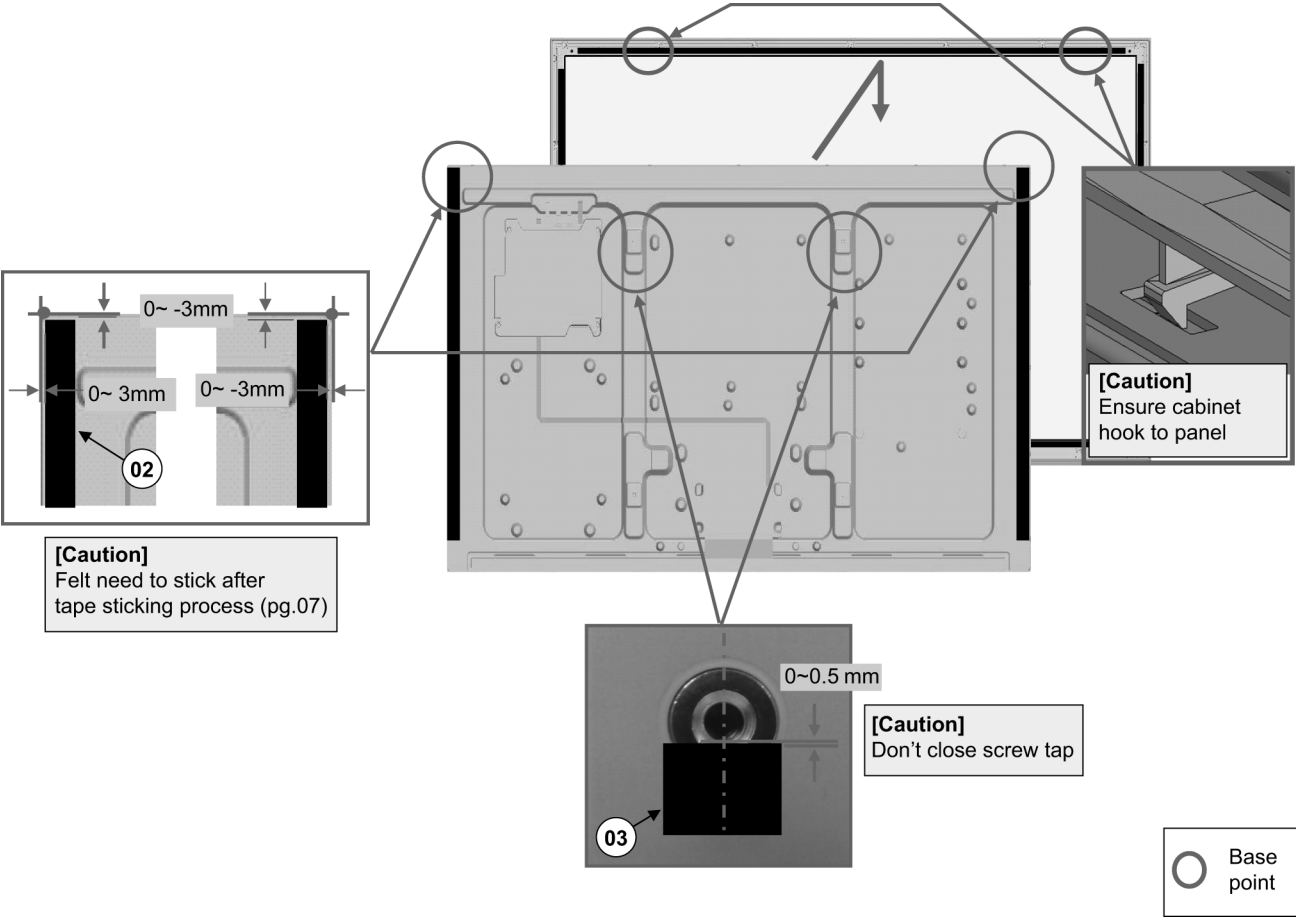
Other general precautions

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

7.5. LCD Panel Assembly 2

1. Stick Barrier accordingly.
2. Stick felt to panel.
3. Install LCD panel to cabinet.

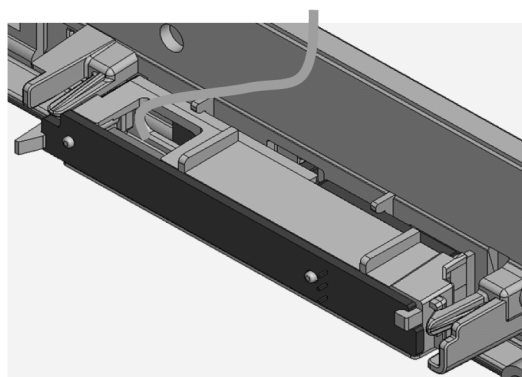
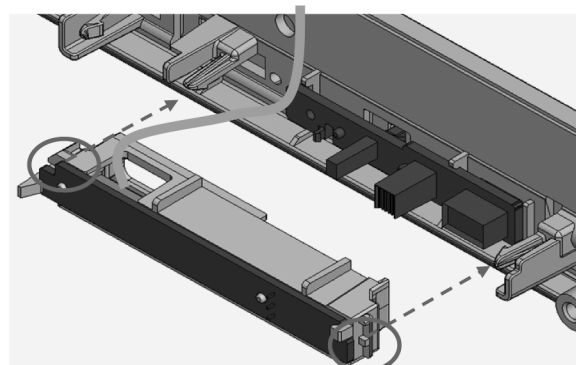
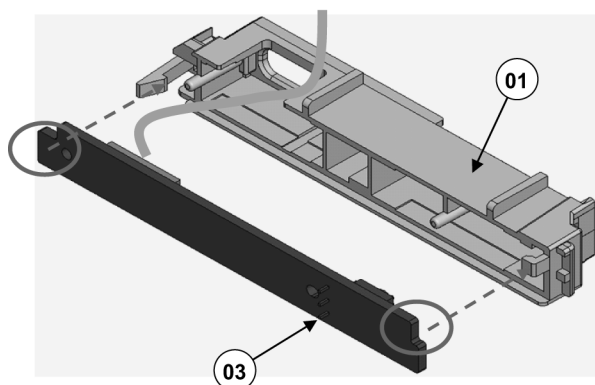
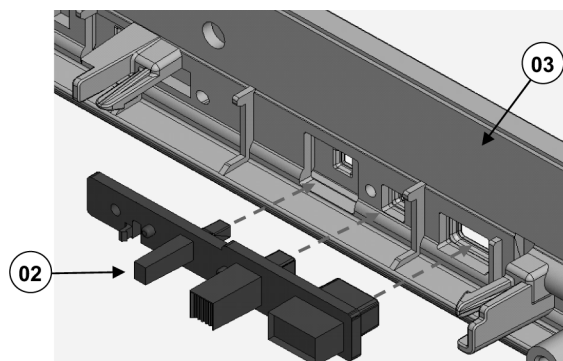




No	Part No	Description	Qty	UOM
01	TMK4GX128	BARRIER P-PCB	1	PC
02	TMK4GA048	FELT (10 × 510 × 0.55t)	2	PC
03	TMK4GA120	FELT (15 × 15 × 0.55t)	2	PC

7.6. LED Panel and Bracket Assembly

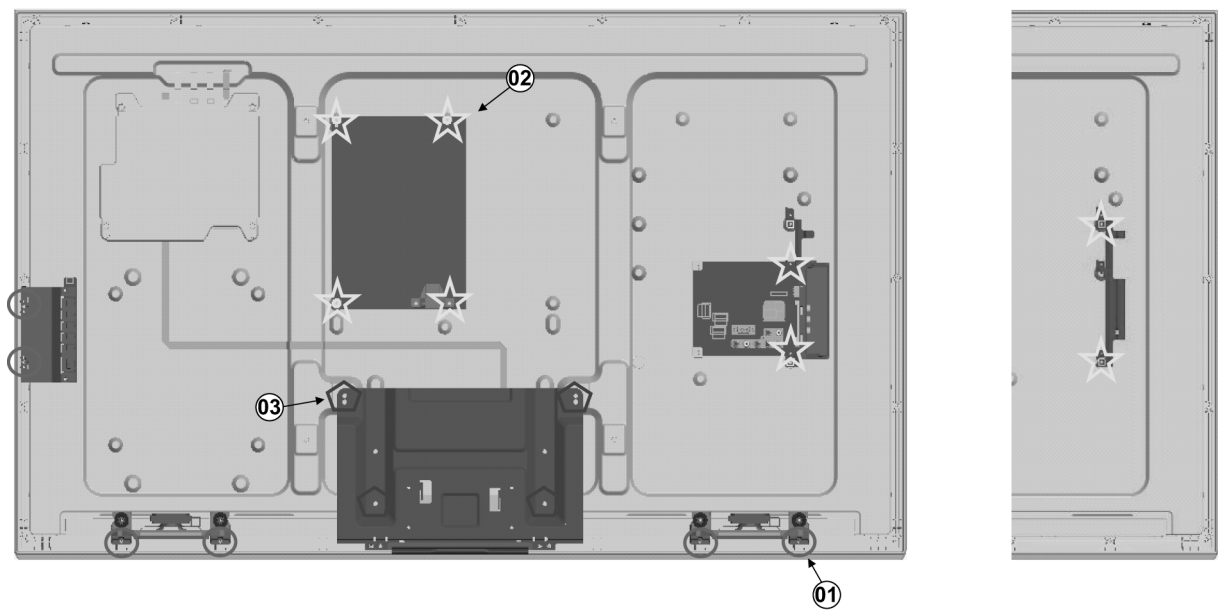
1. Fixing LED panel to panel lens.
2. Fixing wire KA10 to KA print and fix to LED panel.
3. Fixing LED panel to cabinet and fix with cabinet rib.
4. Fixing LED/LCD panel to cabinet.



No	Part No	Description	Qty	UOM
01	TXFKK5Z0006	LED PANEL BRACKET ASS'Y	1	PC
02	TXFKK5Z0004	LED PANEL ASSY	1	PC
03	TXFKY5Z0425	CABINET ASSY	1	PC

7.7. Screws Fixing

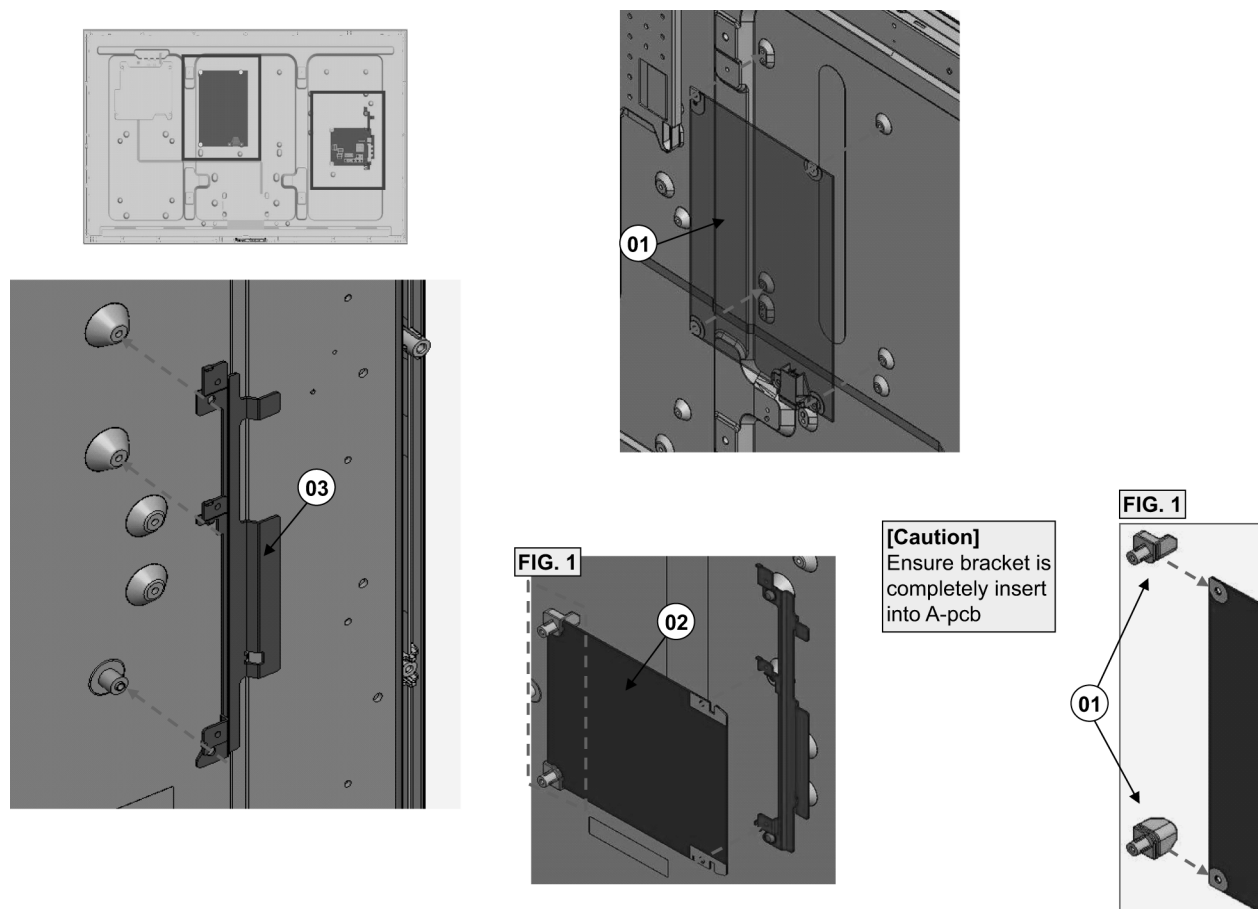
Fix screws accordingly.



No	Part No	Description	Qty	UOM	Remarks
01	XTV3 +10JFJ	SCREW (SP BRKT PANEL AND CTRL BUTTON)	6	PC	6±1 kgf.cm
02	THEJ036J	SCREW (P4/A2/A-BRKT2)	8	PC	6±1 kgf.cm
03	THE4GJ001J	SCREW (METAL BRKT BTM4)	4	PC	13±1 kgf.cm

7.8. PCB Installation

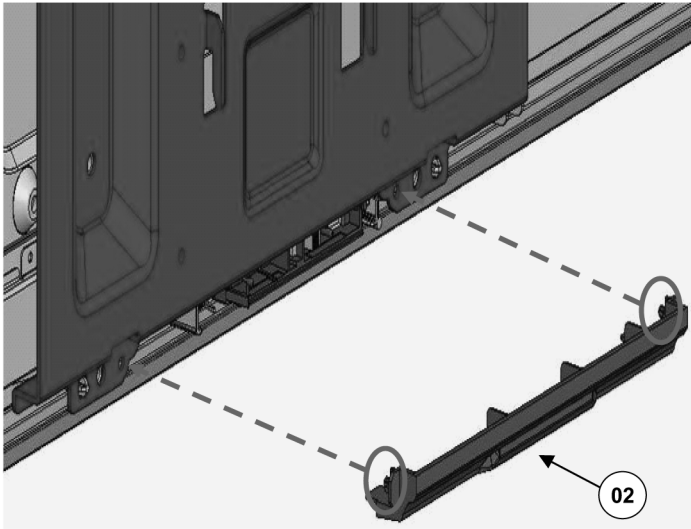
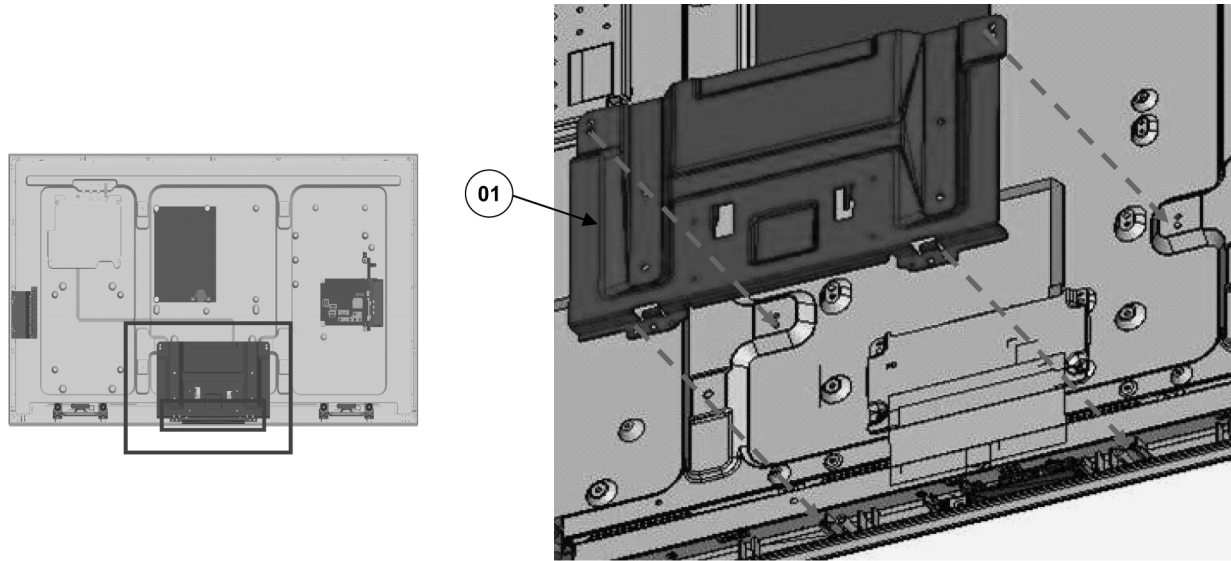
1. Fix gasket to A-board.
2. Install A-pcb metal bracket and fix with screw.
3. Fix chassis bracket A-pcb to A-board.
4. Install P & A-board and fix it with screws.



No	Part No	Description	Qty	UOM	Remarks
01		A - PCB	1	PC	* Part list under chassis
02		P - PCB	1	PC	* Part list under chassis
03	TUA5ZA06101	A-PCB METAL BRACKET	1	PC	

7.9. Bottom Bracket Installation

- 1. Install Bottom Metal and fix with screw.
- 2. Install Bottom Cover.

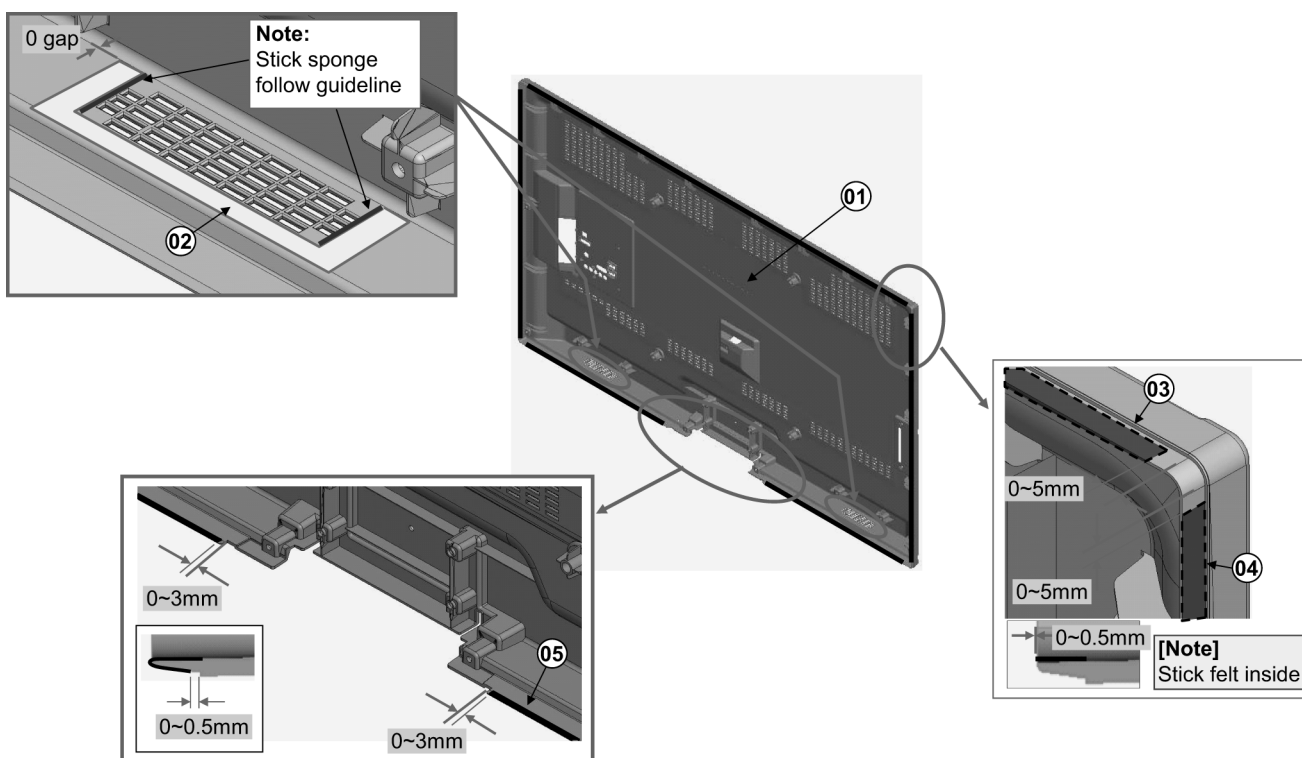


Note:
Screw fixing refer to
page 21

No	Part No	Description	Qty	UOM
01	TKZ5ZX50371	BOTTOM METAL	1	PC
02	TKP5ZA24401	BOTTOM COVER	1	PC

7.10. Back Cover Assembly

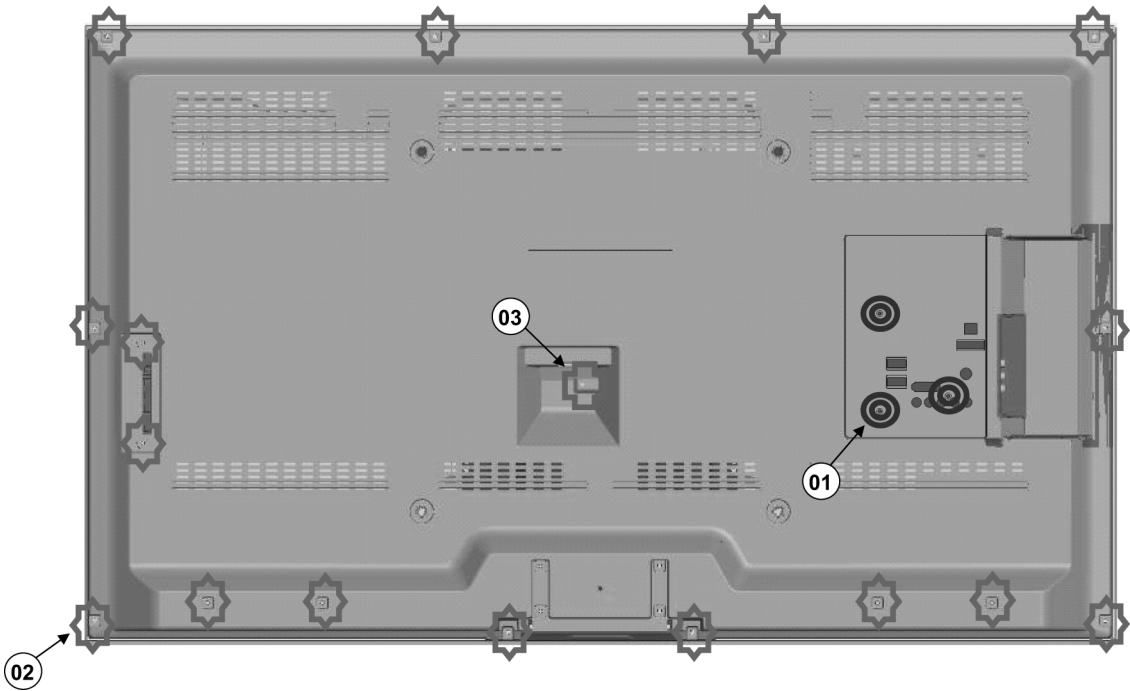
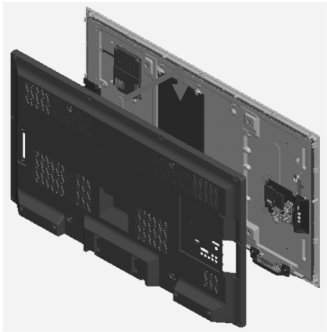
Stick Felt and Sponge at back cover.



No	Part No	Description	Qty	UOM
01	TKU5ZC03404	BACK COVER	1	PC
02	TMK4GG083	SPEAKER SPONGE	2	PC
03	TMK4GA307	FELT (5 × 1130 × 0.55t)	1	PC
04	TMK4GA308	FELT (5 × 660 × 0.55t)	2	PC
05	TMK4GA309	FELT (15 × 430 × 0.55t)	2	PC

7.11. Back Cover Installation

- 1. Install back cover and fix screws.
- 2. Install Adjustment Cover.



No	Part No	Description	Qty	UOM	Remarks
01	XTV3 + 12JFJK	SCREW (BC3)	3	PC	6±1 kgf.cm
02	THTD030J	SCREW (BC16)	16	PC	10±2 kgf.cm
03	THEJ0389	SCREW	1	PC	6±1 kgf.cm

7.12. Handling Spec

■ Moving the LCD module.

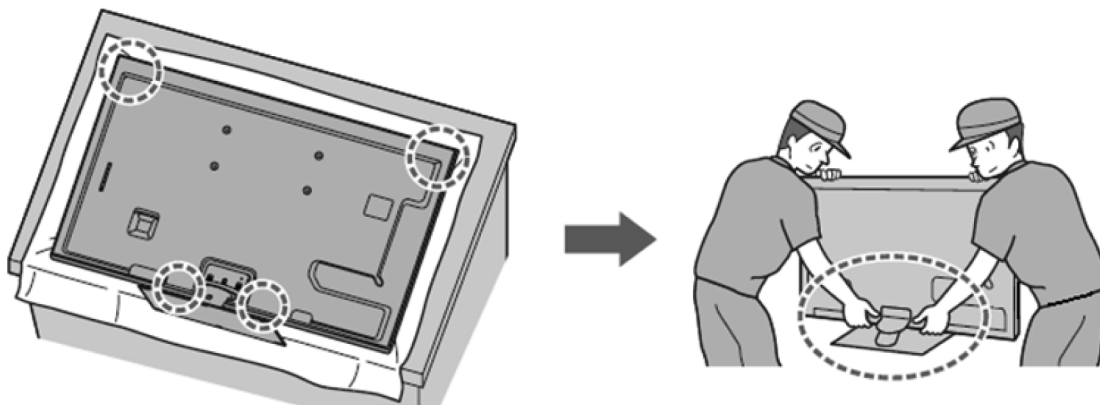
The module should be handle by two people and hold on that top and bottom long side by both hands without module warping. Never handle the module with keeping horizontal position when moving the module in order to avoid internal damage and deformation. Never drop or hit the module.

■ About the work table.

When tightening a screw, retention structures are required not to deform the LCD module.

■ Moving the TV (Case with a stand)

Hold the specified parts as shown to stand the TV up and move it with two people.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

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

Power Supply Name	Measurement Point	Specification (V)
SUB1.8V	TP8700	1.74 - 1.90
SUB1.2V	TP8000	1.14 - 1.26
SUB3.3V	TP8701	3.19 - 3.46
SUB5V	TP8702	4.9 - 5.1
STB5V	TP5400	4.9 - 5.1
PNL12V	TP8307	11.5 - 12.5

8.2. Voltage chart of P-board

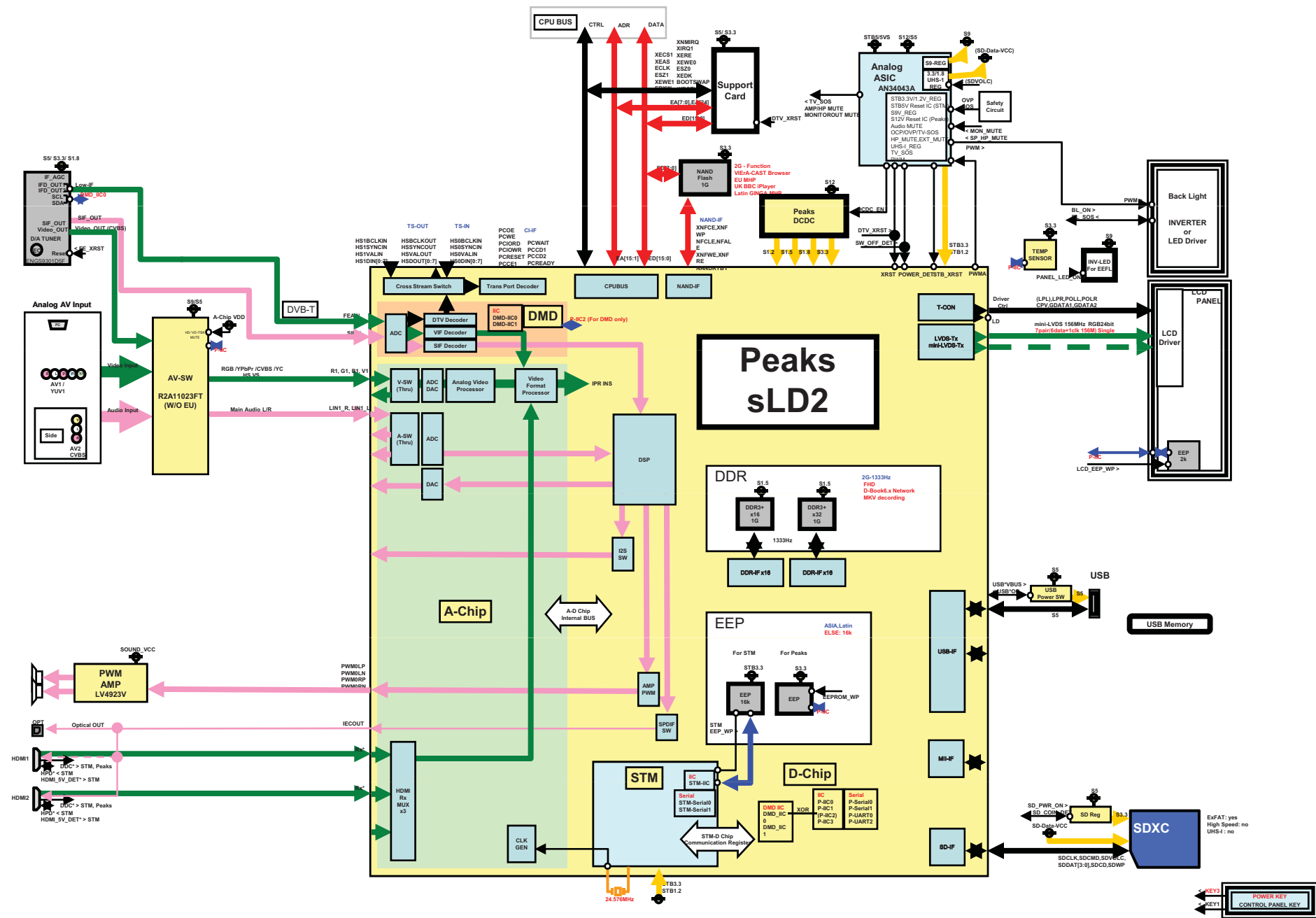
Set P-Board to a dummy set and check the satisfaction with the specified voltage as following table.

VOLTAGE	TEST POINT	Specification	
		Operate	STBY
24V	TP7512 or TP7513	$24V \pm 1.2V$	< 1V
16V	TP7508 or TP7514	$16.1 \pm 0.6V$	< 1V
5.3V	TP7412 or TP7507	$5.3 \pm 0.10V$	$5.3 \pm 0.10V$
PFC	TP7201 or TP7202	$390 \pm 15V$	< 340V

*HOT

9 Block Diagram

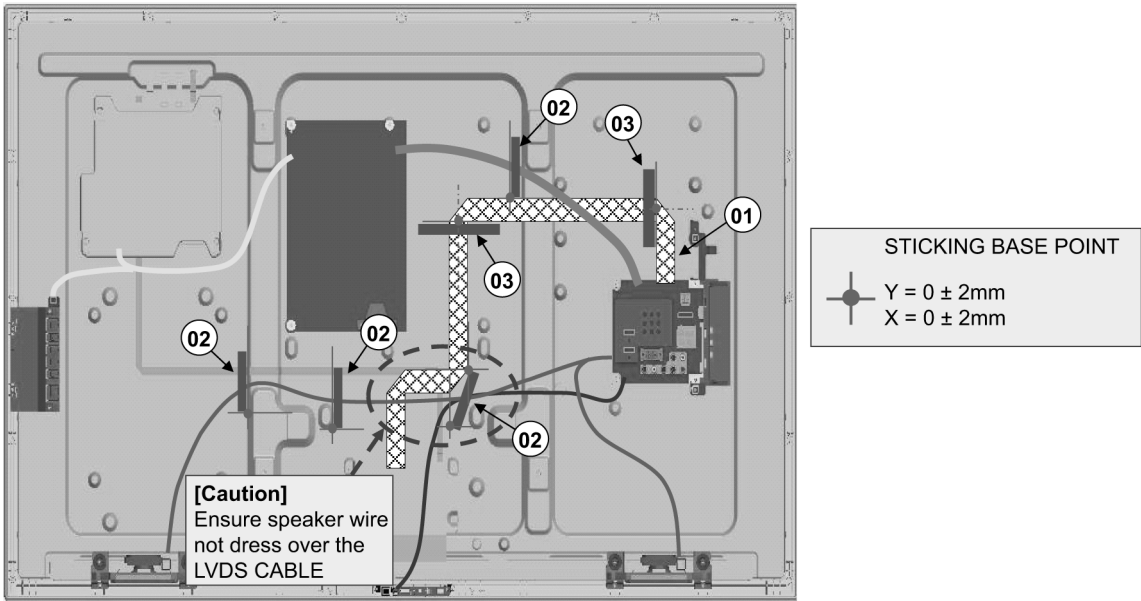
9.1. Main Block Diagram



10 Wiring Connection Diagram

10.1. Wire Dressing

- 1. Do wire dressing follow accordingly.
- 2. Stick tapes (rub evenly at least twice).



No	Part No	Description	Qty	UOM	Remarks
01	TSCFH0050001	LVDS CABLE	1	PC	
02	T4FP1505J	PET TAPE (GREY W=15mm)	0.51	PC	70mm × 4
03					100mm × 2

11 Schematic Diagram

11.1. Schematic Diagram Notes

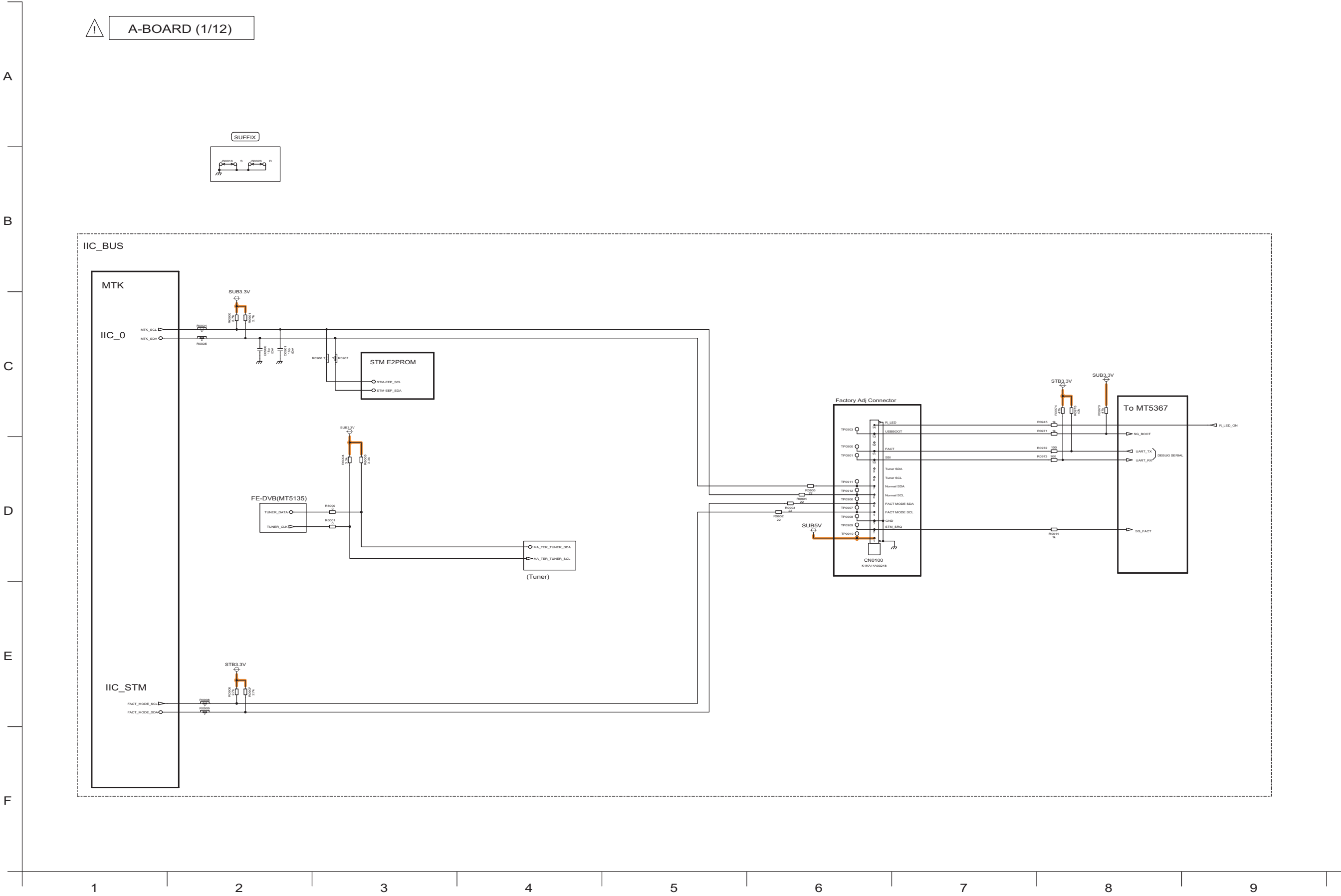
Notes:

- 1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
- 2. **Capacitor**
Unit of capacitance is μ 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.

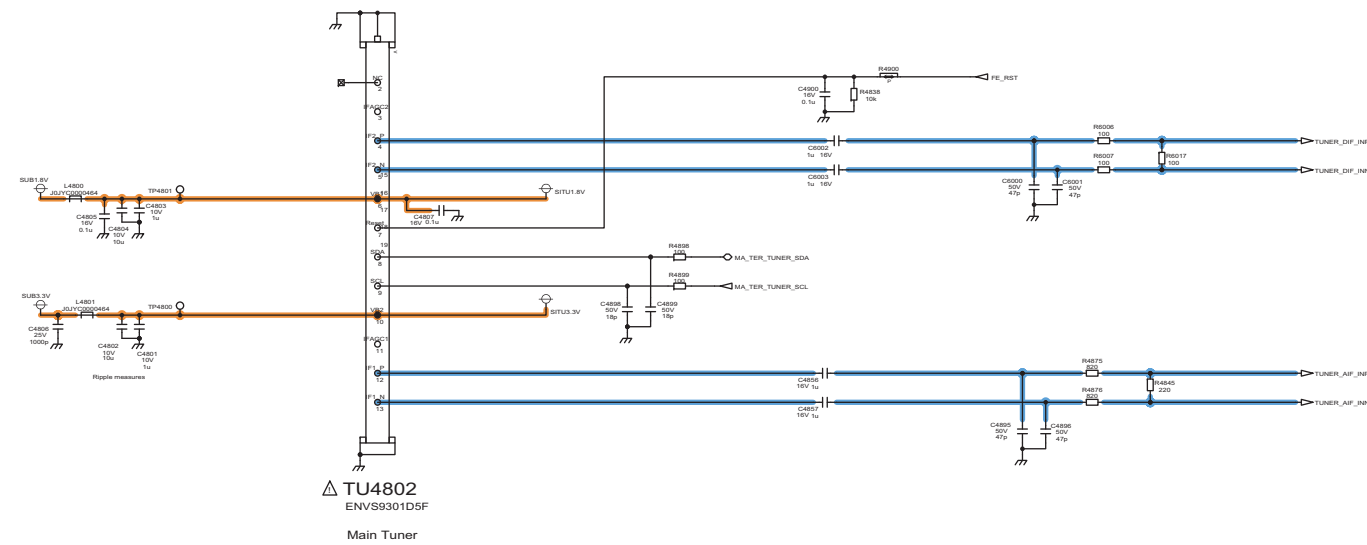
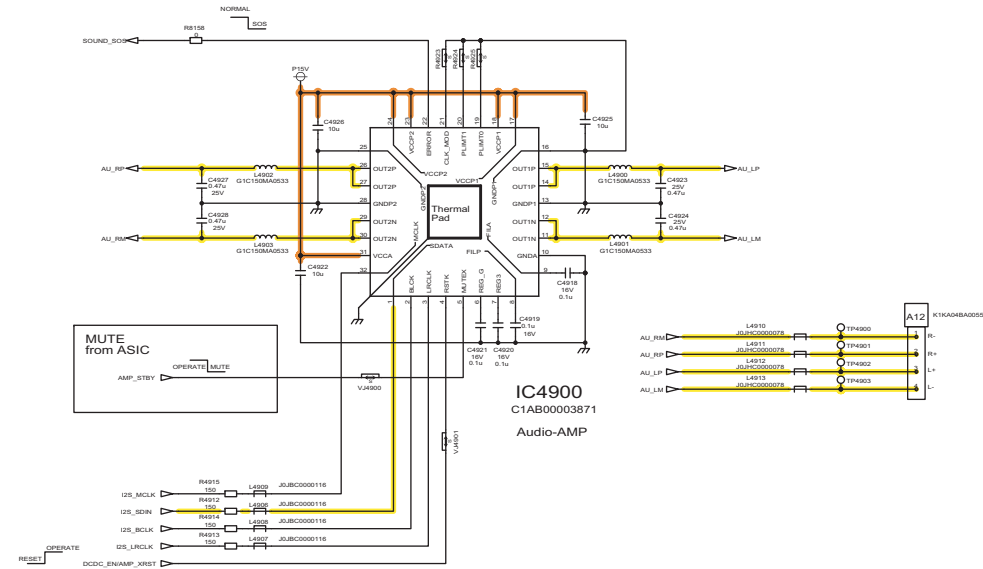
Remarks:

- 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 (1/12) Schematic Diagram

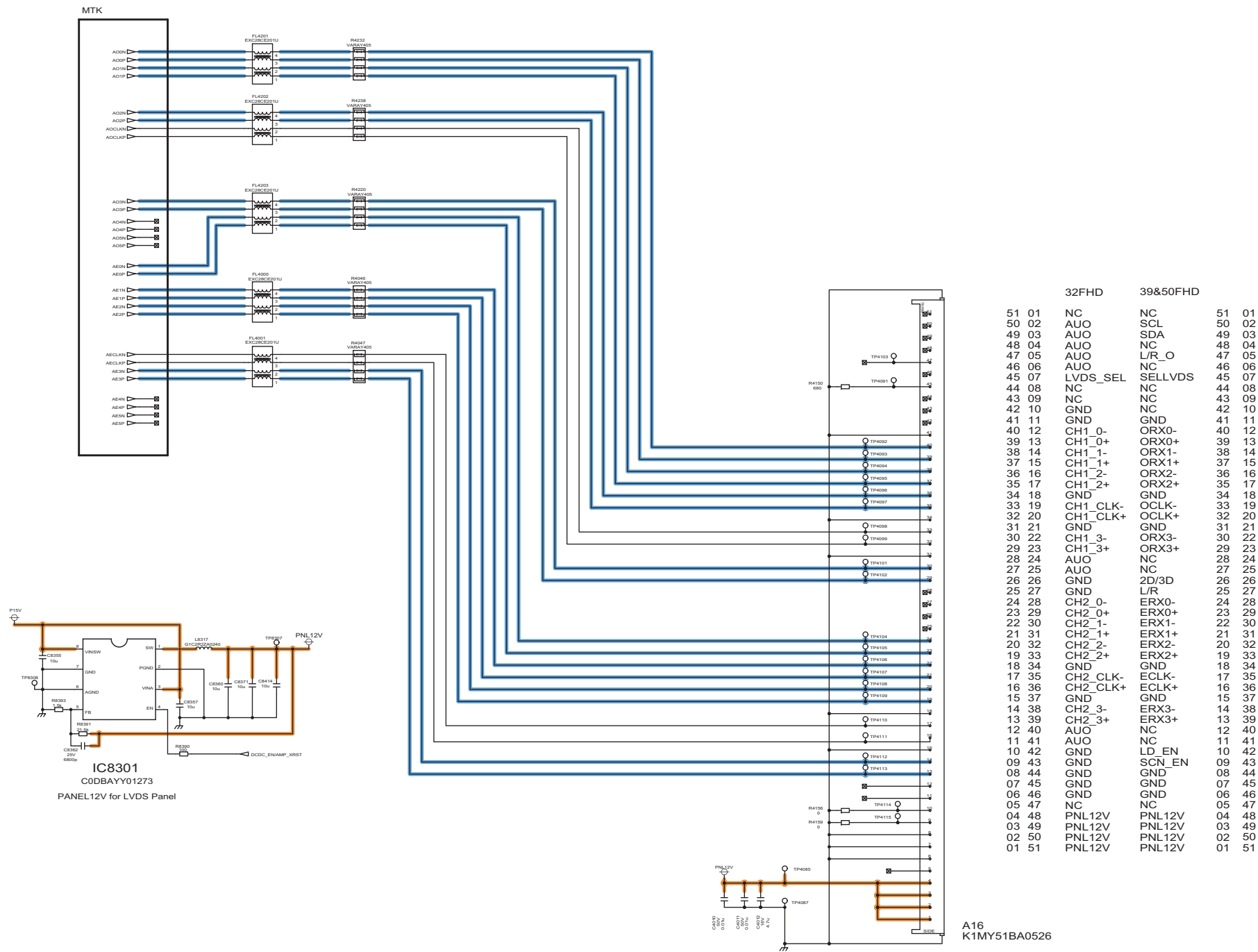


11.3. A-Board (2/12) Schematic Diagram



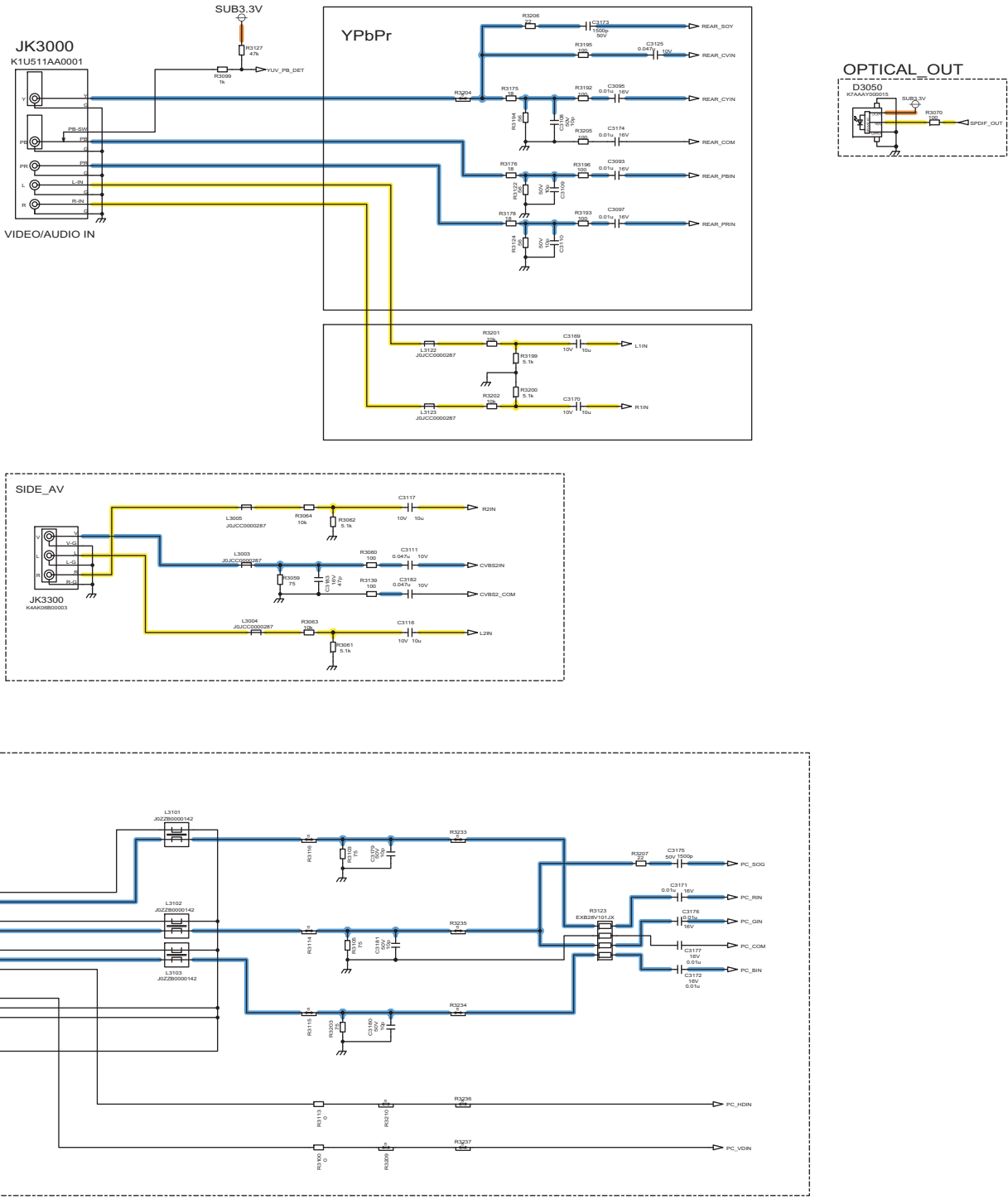
11.4. A-Board (3/12) Schematic Diagram

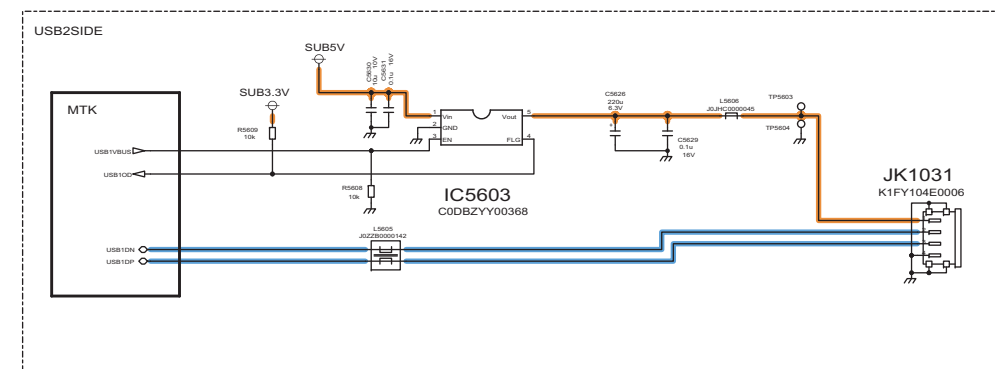
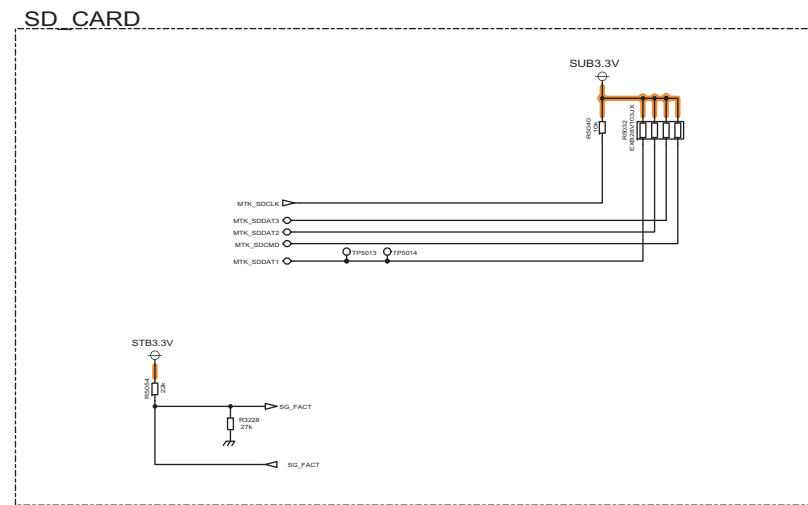
A-BOARD (3/12)

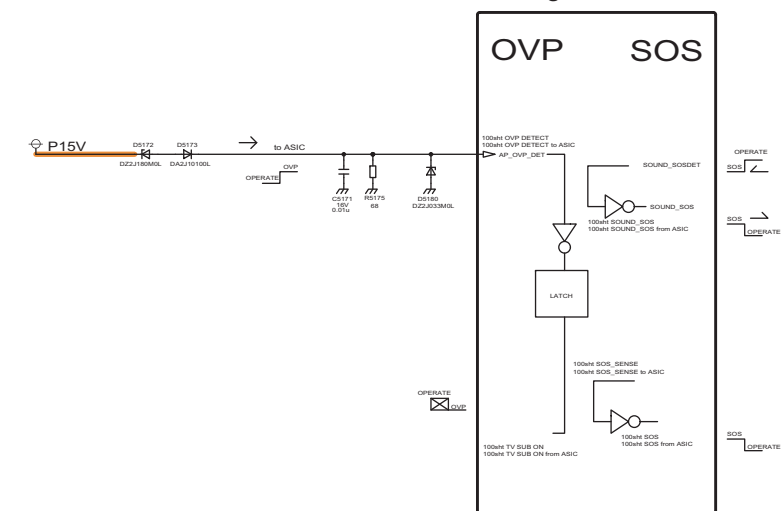
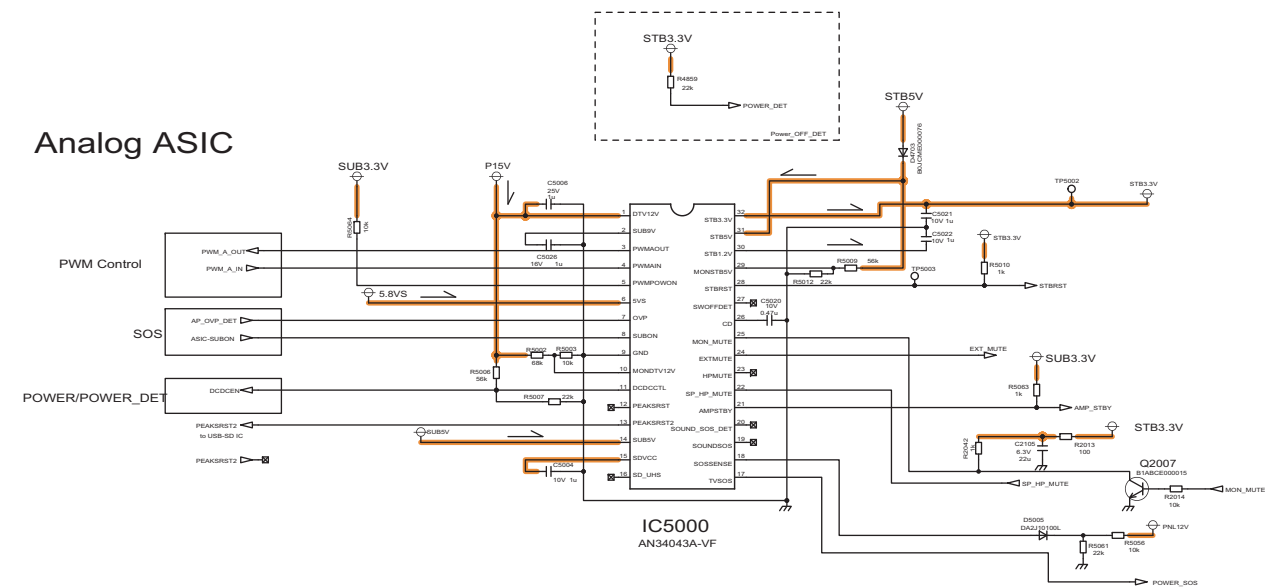
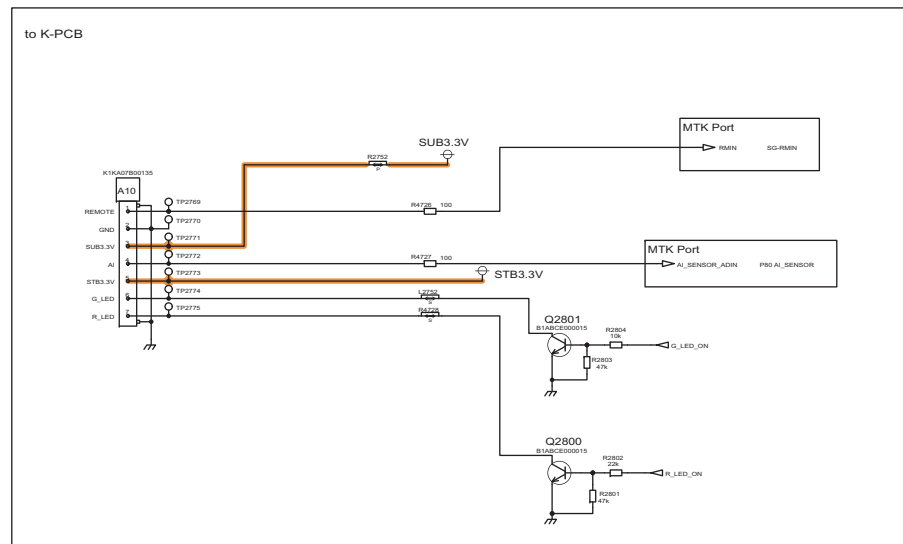


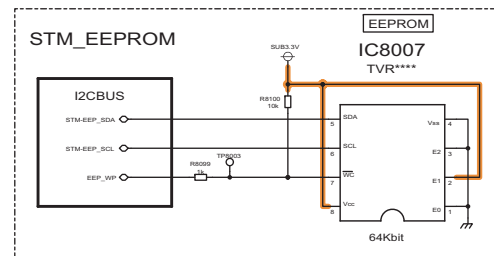
11.5. A-Board (4/12) Schematic Diagram

A-BOARD (4/12)



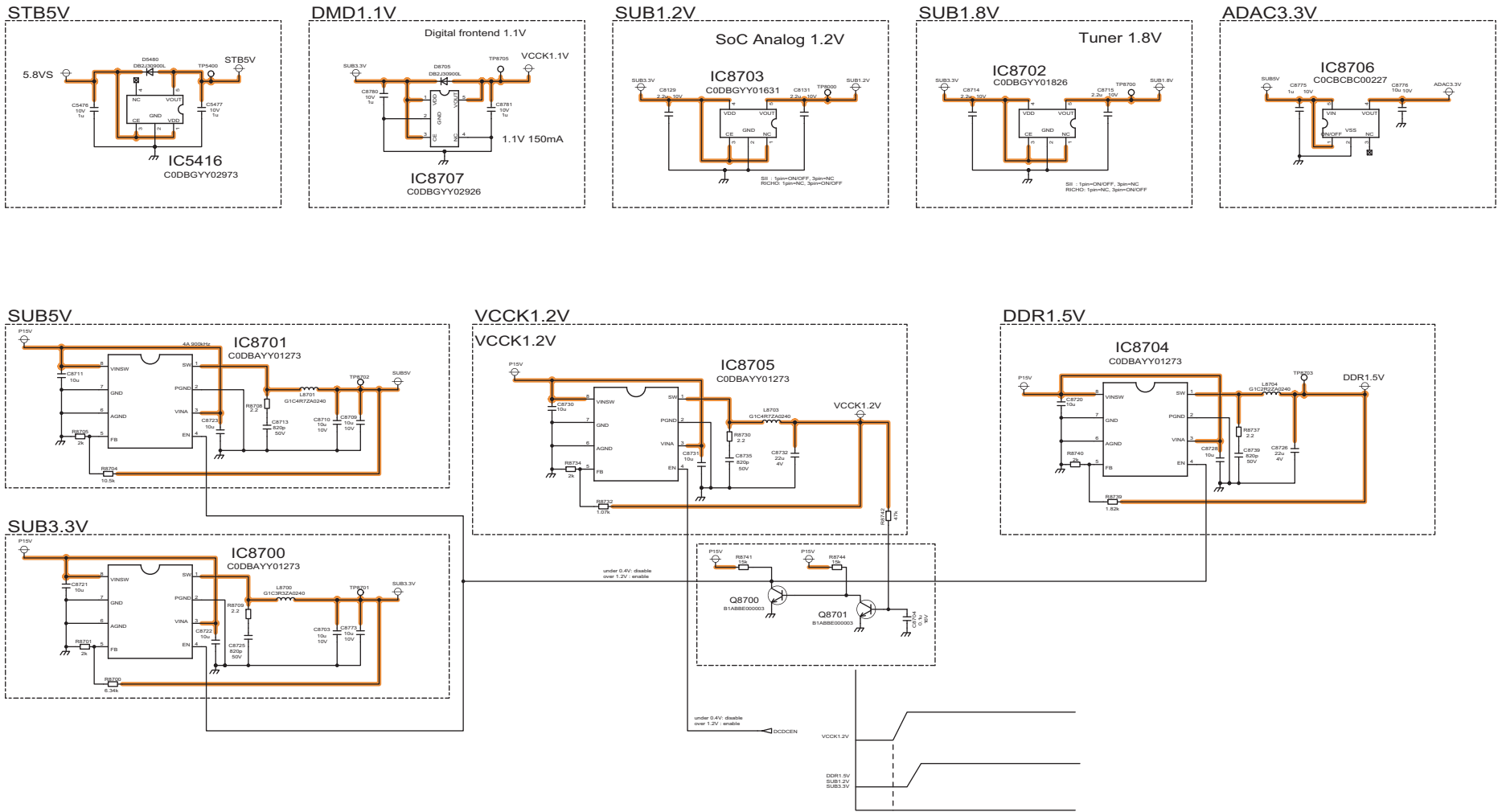


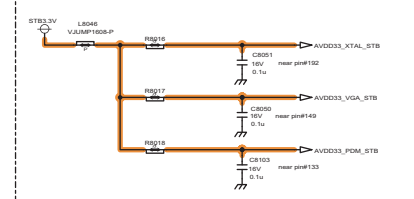
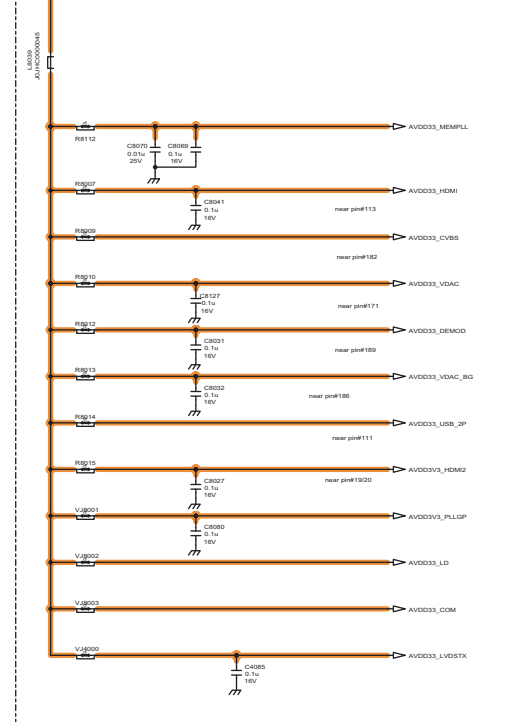
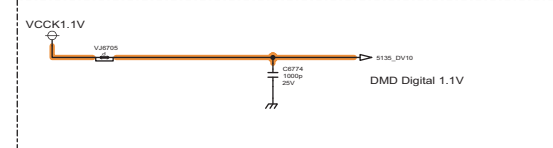
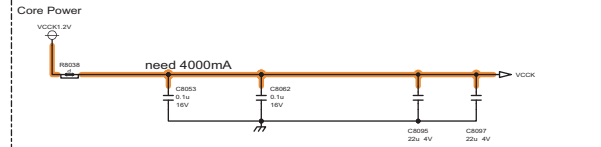
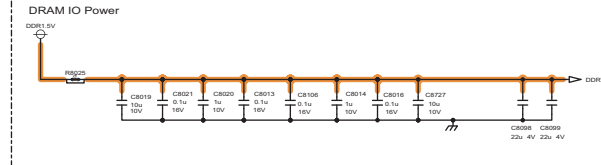
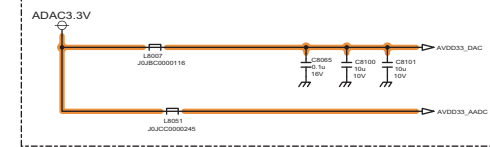
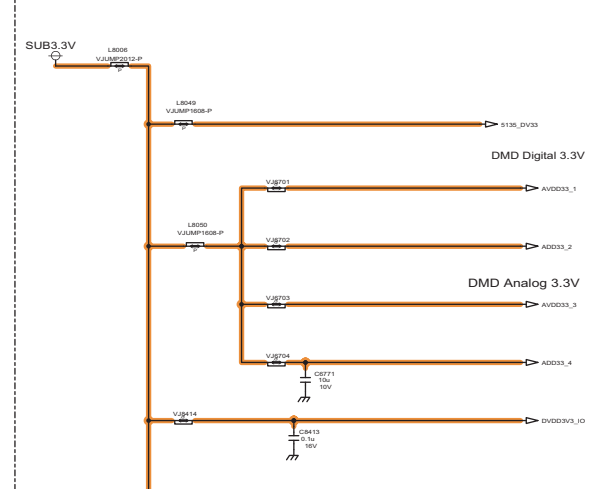
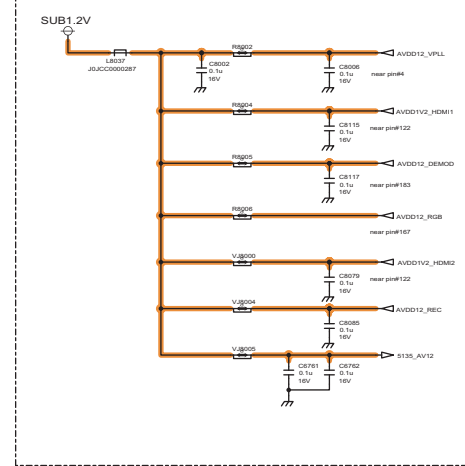




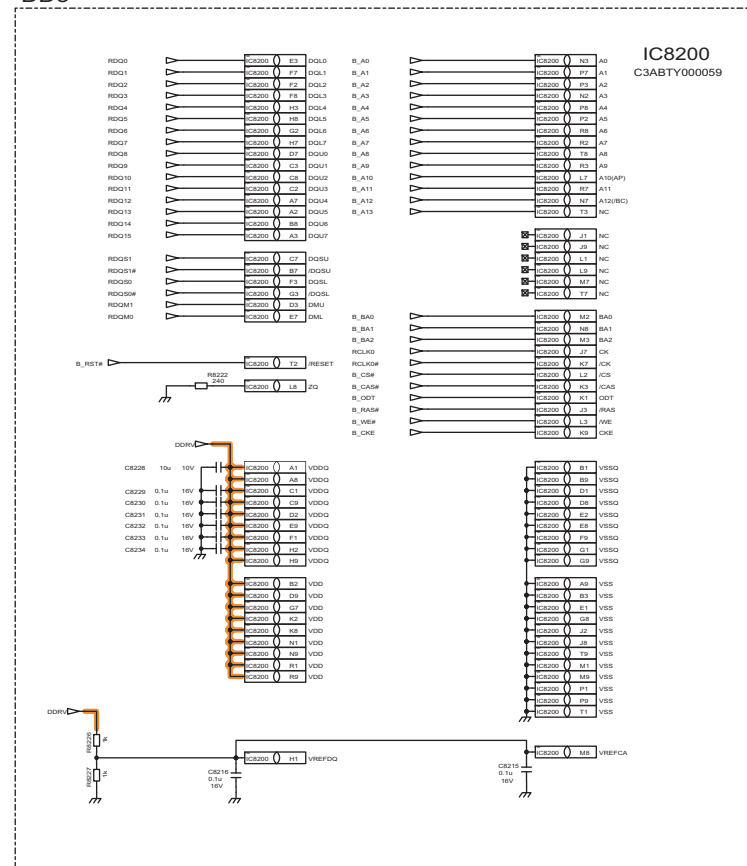
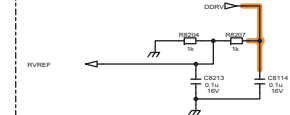
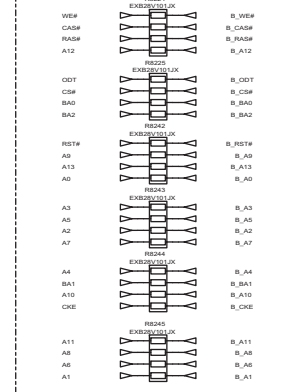
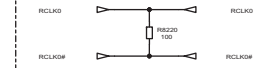
11.9. A-Board (8/12) Schematic Diagram

A-BOARD (8/12)





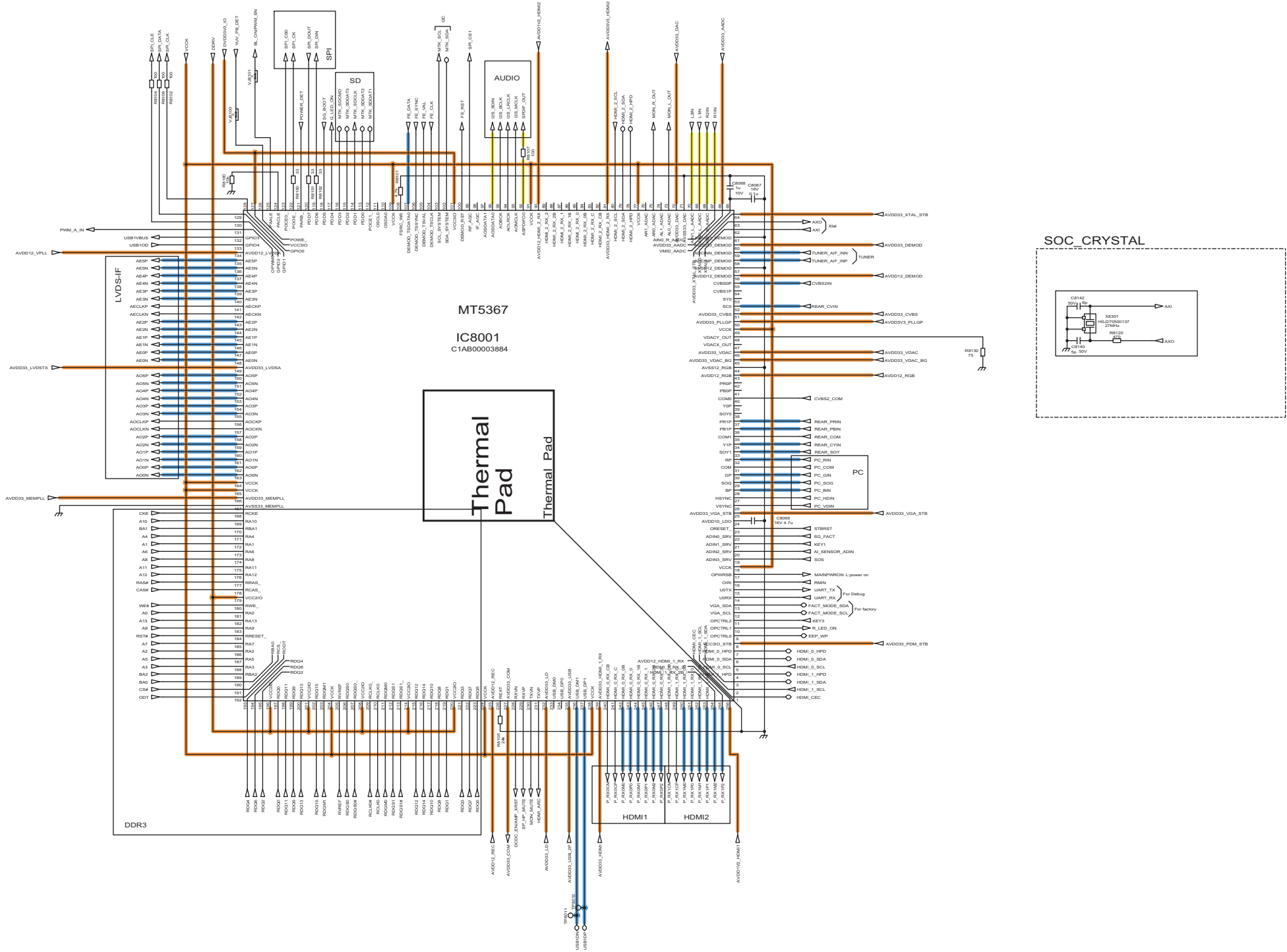
11.11. A-Board (10/12) Schematic Diagram



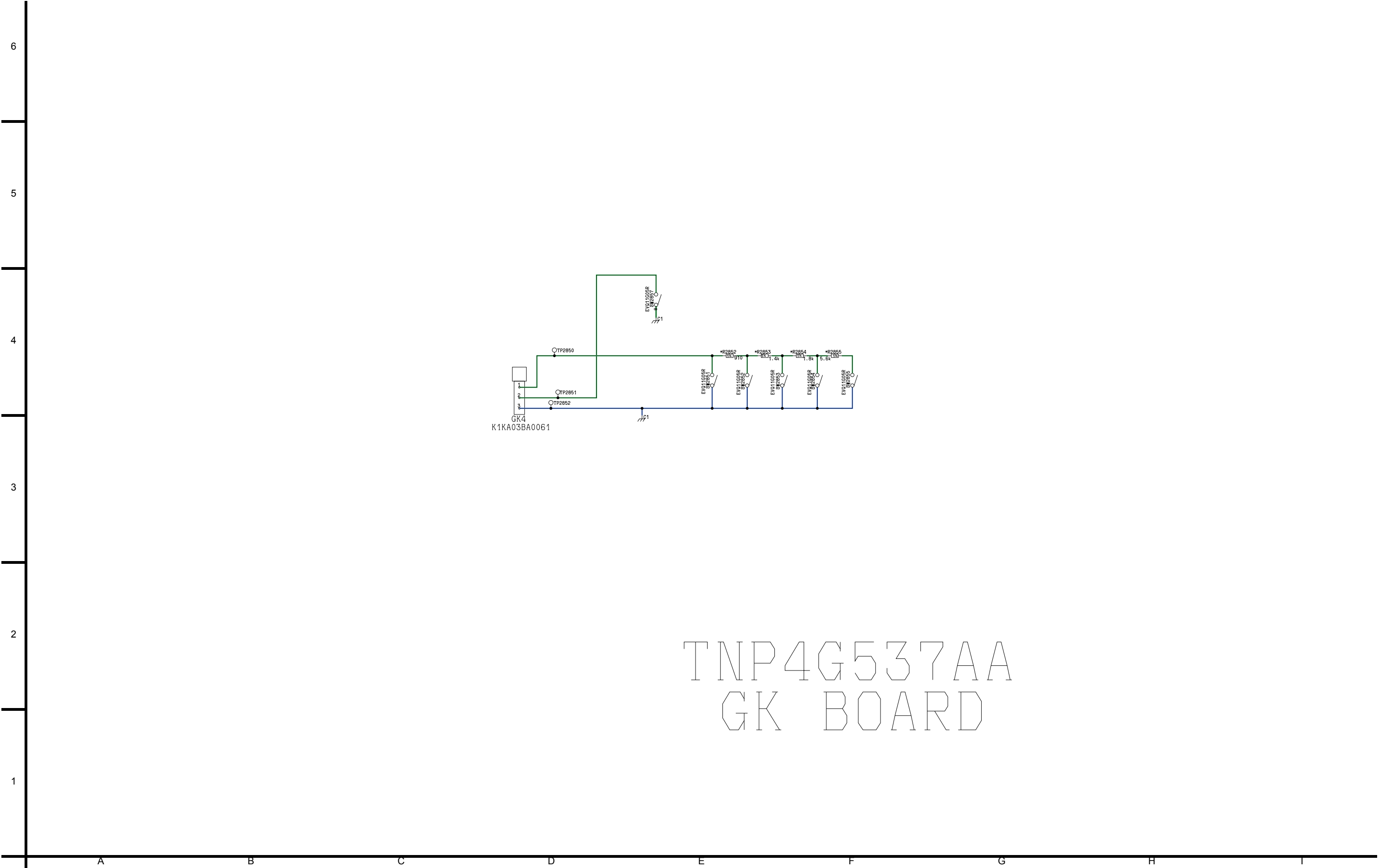


11.13. A-Board (12/12) Schematic Diagram

A-BOARD (12/12)

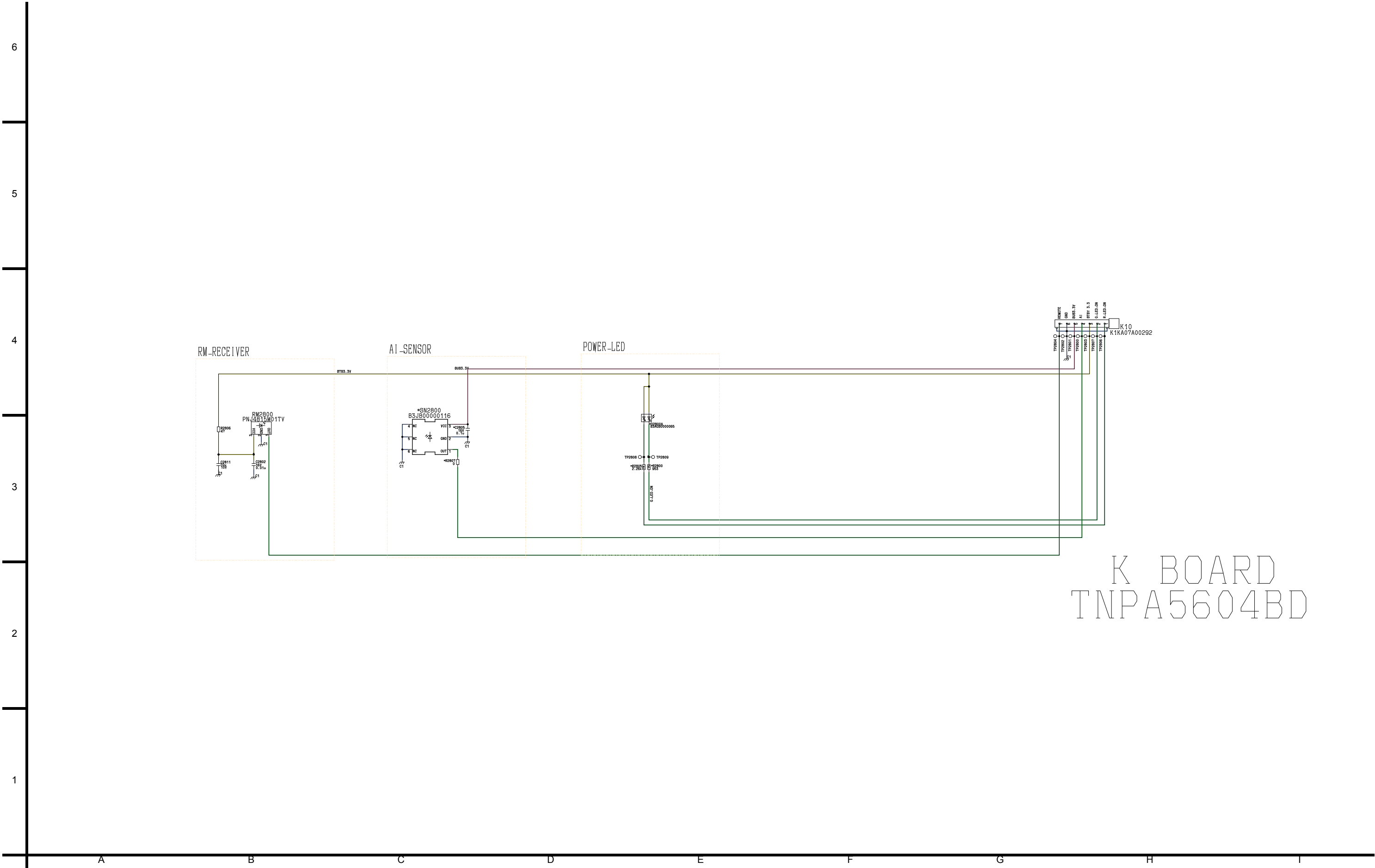


11.14. GK-Board Schematic Diagram

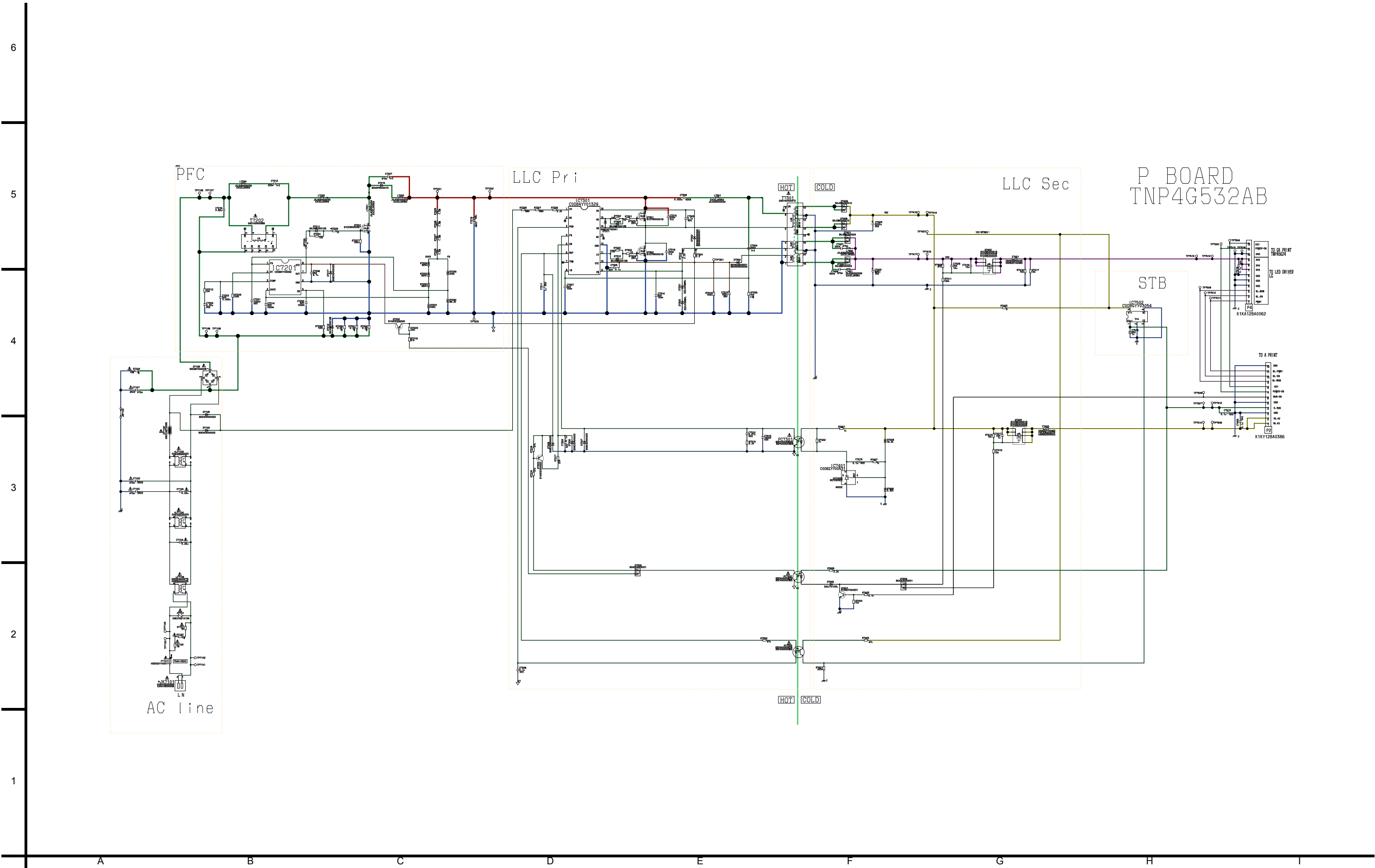


TNP4G537AA
GK BOARD

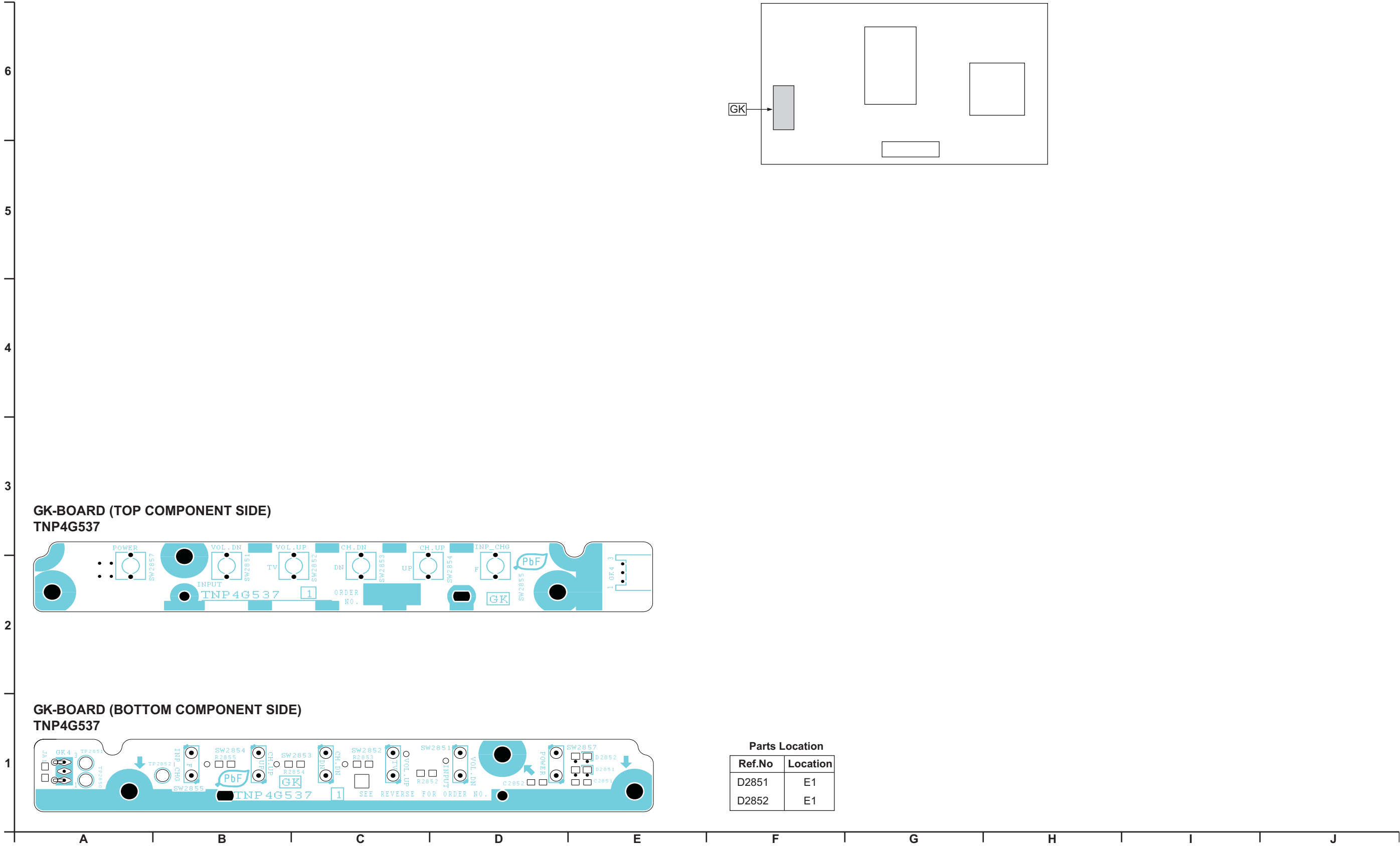
11.15. K-Board Schematic Diagram



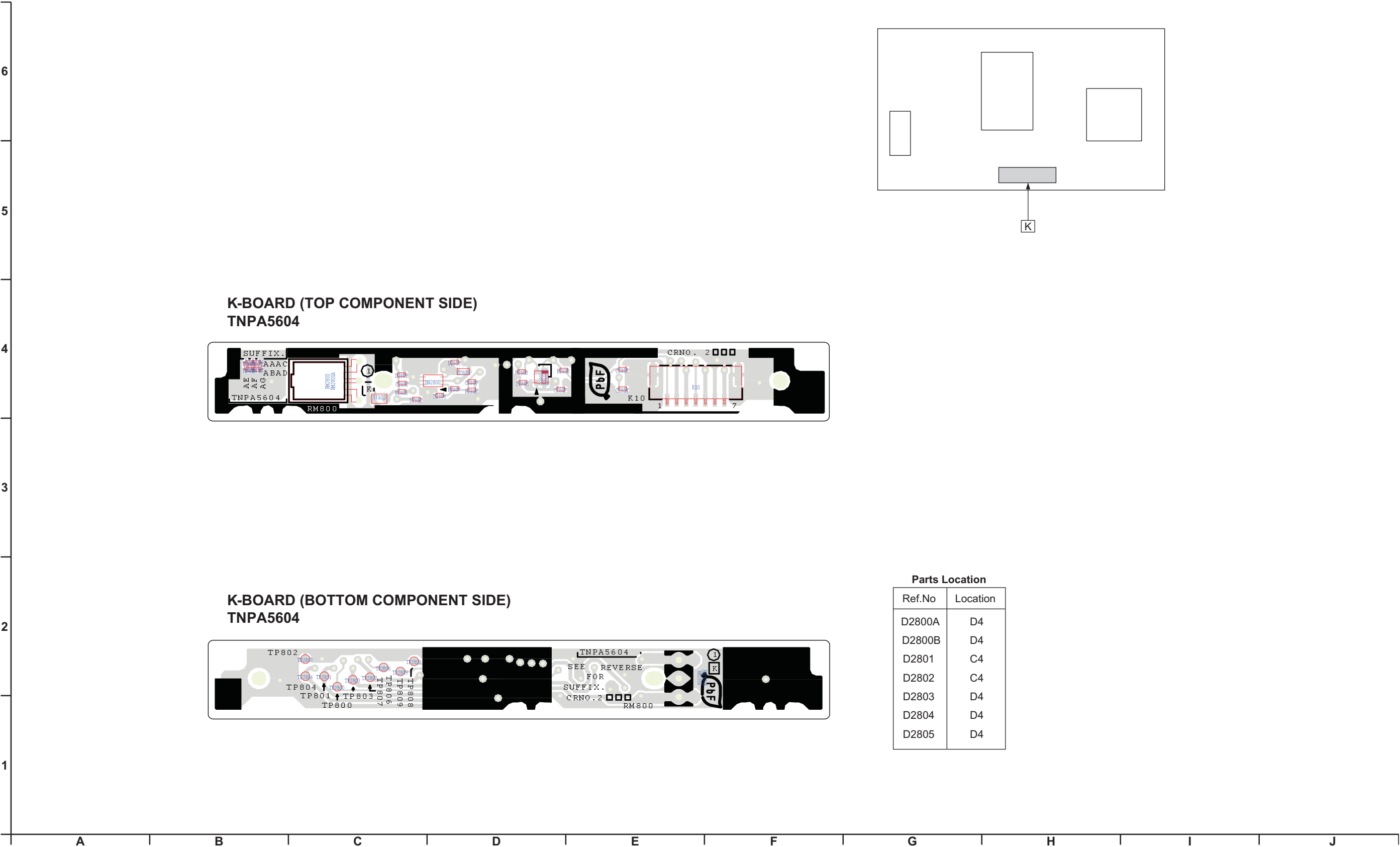
11.16. P-Board Schematic Diagram

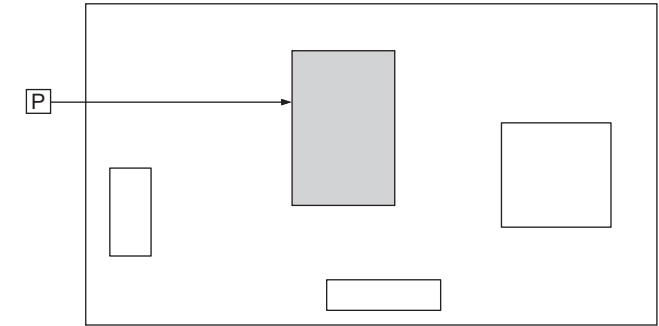


12.2. GK-BOARD



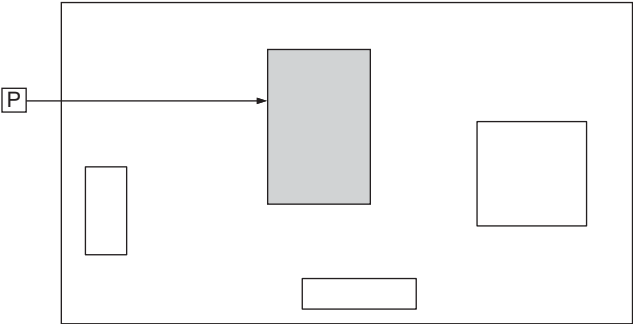
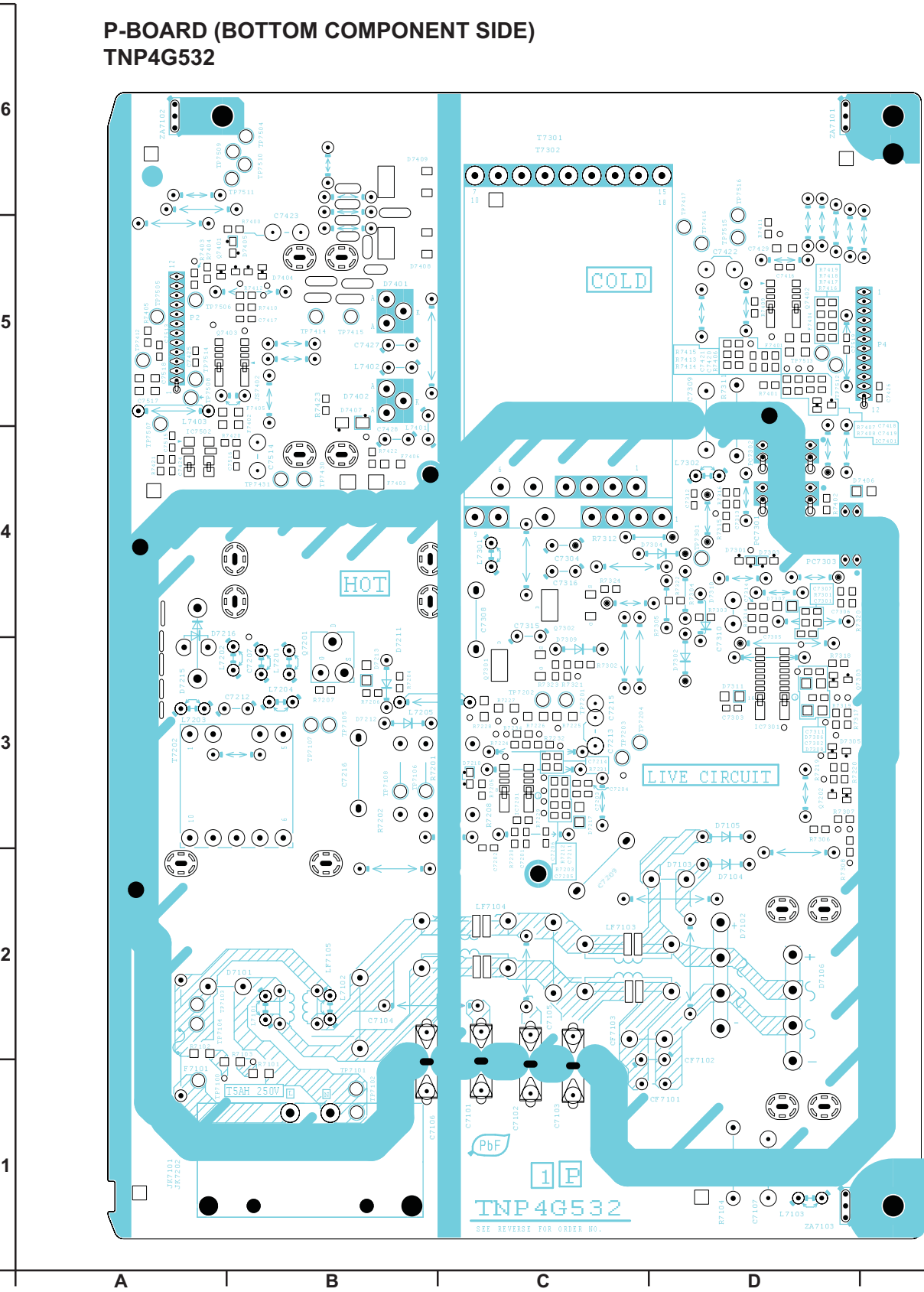
12.3. K-BOARD





Parts Location			
Ref.No	Location	Ref.No	Location
D7101	D2	D7215	E3
D7102	B2	D7216	E4
D7103	B2	D7302	B3
D7104	B2	D7304	B4
D7105	B3	D7309	C3
D7106	A2	D7310	B4
D7211	C3	D7401	D5
D7212	C3	D7402	D5

P-BOARD (BOTTOM COMPONENT SIDE)
TNP4G532



Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7201	C3	D2851	E5	D7303	D4
IC7301	D3	D2852	E5	D7304	D4
IC7401	D5	D7101	B2	D7305	D3
IC7502	A5	D7102	D2	D7306	D3
		D7103	D2	D7307	D4
		D7104	D2	D7308	D3
		D7105	D3	D7309	C3
		D7106	D2	D7310	D4
		D7210	C3	D7311	D3
		D7211	B3	D7401	B5
		D7212	B3	D7402	B5
		D7213	B3	D7404	B5
		D7215	A3	D7405	B5
		D7216	A4	D7406	D4
		D7217	C3	D7407	B5
		D7301	D4	D7408	B5
		D7302	D3	D7409	B6

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 : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	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		
	C0062	F1G1H1020008	C 1000PF 50V	
	C0900	F1G1H180A731	C 18PF, 50V	
	C0901	F1G1H180A731	C 18PF, 50V	
	C2001	F1G1E1030005	C 0.01UF 25V	
	C2003	F1G1H1020008	C 1000PF 50V	
	C2008	F1JZZ1060001	C 10UF, 20V	
	C2009	F1G1C104A077	C 0.1UF 16V	
	C2010	F1G1C1030008	C 0.01UF 16V	
	C2014	F1JZZ1060001	C 10UF, 20V	
	C2105	F1K0J226A049	C 22UF, 6.3V	
	C2802	F1G1C1030008	C 0.01UF 16V	
	C2805	F1H1C104A041	C 0.1UF, 16V	
	C2811	F1J1A106A087	C 10UF, 10V	
	C3093	F1G1C1030008	C 0.01UF 16V	
	C3095	F1G1C1030008	C 0.01UF 16V	
	C3097	F1G1C1030008	C 0.01UF 16V	
	C3108	F1G1H100A833	C 10PF 50V	
	C3109	F1G1H100A833	C 10PF 50V	
	C3110	F1G1H100A833	C 10PF 50V	
	C3111	F1G1A473A079	C 0.047UF, 10V	
	C3116	F1J1A106A110	C 10UF, 10V	
	C3117	F1J1A106A110	C 10UF, 10V	
	C3125	F1G1A473A079	C 0.047UF, 10V	
	C3169	F1J1A106A110	C 10UF, 10V	
	C3170	F1J1A106A110	C 10UF, 10V	
	C3171	F1G1C1030008	C 0.01UF 16V	
	C3172	F1G1C1030008	C 0.01UF 16V	
	C3173	F1G1H152A830	C 1500PF, 50V	
	C3174	F1G1C1030008	C 0.01UF 16V	
	C3175	F1G1H152A830	C 1500PF, 50V	
	C3176	F1G1C1030008	C 0.01UF 16V	
	C3177	F1G1C1030008	C 0.01UF 16V	
	C3179	F1G1H100A833	C 10PF 50V	
	C3180	F1G1H100A833	C 10PF 50V	
	C3181	F1G1H100A833	C 10PF 50V	
	C3182	F1G1A473A053	C0.047UF, 10V	
	C3183	F1G1C470A160	C 47PF, 16V	
	C4010	F1H1H103B047	C 0.01UF, 50V	
	C4011	F1H1H103B047	C 0.01UF, 50V	
	C4012	F1J1C475A225	C 4.7UF, 10V	
	C4085	F1G1C104A077	C 0.1UF 16V	
	C4548	F1G1A105A047	C 1UF 10V	
	C4801	F1G1A105A047	C 1UF 10V	
	C4802	F1J1A106A110	C 10UF, 10V	
	C4803	F1G1A105A047	C 1UF 10V	
	C4804	F1J1A106A110	C 10UF, 10V	
	C4805	F1G1C104A077	C 0.1UF 16V	
	C4806	F1G1E102A123	C 1000pF 25V	
	C4807	F1G1C104A077	C 0.1UF 16V	
	C4856	F1H1C105A145	C 1 uF 16 V	
	C4857	F1H1C105A145	C 1 uF 16 V	
	C4895	F1G1H470A834	C 47PF, 50V	
	C4896	F1G1H470A834	C 47PF, 50V	
	C4898	F1G1H180A731	C 18PF, 50V	
	C4899	F1G1H180A731	C 18PF, 50V	
	C4900	F1G1C104A077	C 0.1UF 16V	
	C4918	F1G1C104A077	C 0.1UF 16V	
	C4919	F1G1C104A077	C 0.1UF 16V	
	C4920	F1G1C104A077	C 0.1UF 16V	
	C4921	F1G1C104A077	C 0.1UF 16V	
	C4922	F1JZZ1060001	C 10UF, 20V	
	C4923	F1J1E474A272	C 0.47UF, 25V	
	C4924	F1J1E474A272	C 0.47UF, 25V	
	C4925	F1JZZ1060001	C 10UF, 20V	
	C4926	F1JZZ1060001	C 10UF, 20V	
	C4927	F1J1E474A272	C 0.47UF, 25V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4928	F1J1E474A272	C 0.47UF, 25V	
	C5004	F1G1A105A047	C 1UF 10V	
	C5006	F1J1E105A287	C 1UF, 25V	
	C5020	F1H1A474A107	C 0.47UF, 10V	
	C5021	F1G1A105A047	C 1UF 10V	
	C5022	F1G1A105A047	C 1UF 10V	
	C5026	F1H1C105A145	C 1 uF 16 V	
	C5171	F1G1C1030008	C 0.01UF 16V	
	C5476	F1G1A105A047	C 1UF 10V	
	C5477	F1G1A105A047	C 1UF 10V	
	C5626	EEHBOJ221UP	E 220UF, 6.3V	
	C5629	F1G1C104A077	C 0.1UF 16V	
	C5630	F1J1A106A087	C 10UF, 10V	
	C5631	F1G1C104A077	C 0.1UF 16V	
	C6000	F1G1H470A834	C 47PF, 50V	
	C6001	F1G1H470A834	C 47PF, 50V	
	C6002	F1H1C105A145	C 1 uF 16 V	
	C6003	F1H1C105A145	C 1 uF 16 V	
	C6761	F1G1C104A077	C 0.1UF 16V	
	C6762	F1G1C104A077	C 0.1UF 16V	
	C6771	F1J1A106A087	C 10UF, 10V	
	C6774	F1G1E102A123	C 1000pF 25V	
	C6778	F1G1H100A833	C 10PF 50V	
	C6779	F1G1H120A834	C 12PF, 50V	
	C6780	F1G1H120A834	C 12PF, 50V	
	C6781	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	F1J1H102A721	C 1000pF, 50V	
	C7202	F1J1H102A721	C 1000pF, 50V	
	C7203	F1J1H223A900	C 0.022UF, 50V	
	C7204	F1J1E224A272	C 0.22UF, 25V	
	C7206	F1J1E475A257	C 4.7UF, 25V	
	C7207	F1A3A101A060	C 100PF 1KV	
	C7212	F1A3A221A060	C 220PF 1KV	
	C7214	F1J1H102A721	C 1000pF, 50V	
	C7215	F2A2W6800010	C 68UF, 450V	
	C7216	F0CZZ824A169	C 0.82UF, 240V	
	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	F0C2J223A168	C 0.022UF, 630V	
	C7310	F2A1V221A429	C 2200UF, 35V	
	C7311	F1J1E105A287	C 1UF, 25V	
	C7312	F1J1H474A757	C 0.47UF, 50V	
	C7313	F1J1H102A721	C 1000pF, 50V	
	C7314	F1J1H101A906	C 100PF, 50V	
	C7315	F1A3A221A060	C 220PF 1KV	
	C7316	F1A3A221A060	C 220PF 1KV	
	C7416	F1JZZ1060001	C 10UF, 20V	
	C7417	F1J1E105A287	C 1UF, 25V	
	C7418	F1J1H104A902	C 0.1UF, 50V	
	C7422	F2A1V6810039	C 680UF 35V	
	C7423	F2A1E222B927	C 2200UF, 25V	
	C7425	F1J1H104A902	C 0.1UF, 50V	
	C7427	F1B2H471A058	C 470PF, 500V	
	C7428	F1B2H471A058	C 470PF, 500V	
	C7429	F1K1E106A134	C 10UF, 25V	
	C7513	F1J1H104A902	C 0.1UF, 50V	
	C7515	F1J1E105A287	C 1UF, 25V	
	C7519	F1J1H104A902	C 0.1UF, 50V	
	C8002	F1G1C104A077	C 0.1UF 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8006	F1G1C104A077	C 0.1UF 16V	
	C8013	F1G1C104A077	C 0.1UF 16V	
	C8014	F1G1A105A047	C 1UF 10V	
	C8016	F1G1C104A077	C 0.1UF 16V	
	C8019	F1J1A106A087	C 10UF, 10V	
	C8020	F1G1A105A047	C 1UF 10V	
	C8021	F1G1C104A077	C 0.1UF 16V	
	C8027	F1G1C104A077	C 0.1UF 16V	
	C8031	F1G1C104A077	C 0.1UF 16V	
	C8032	F1G1C104A077	C 0.1UF 16V	
	C8041	F1G1C104A077	C 0.1UF 16V	
	C8050	F1G1C104A077	C 0.1UF 16V	
	C8051	F1G1C104A077	C 0.1UF 16V	
	C8053	F1G1C104A077	C 0.1UF 16V	
	C8062	F1G1C104A077	C 0.1UF 16V	
	C8065	F1G1C104A077	C 0.1UF 16V	
	C8066	F1J1C475A225	C 4.7UF, 10V	
	C8067	F1G1C104A077	C 0.1UF 16V	
	C8068	F1G1A105A047	C 1UF 10V	
	C8069	F1G1C104A077	C 0.1UF 16V	
	C8070	F1G1E1030005	C 0.01UF 25V	
	C8079	F1G1C104A077	C 0.1UF 16V	
	C8080	F1G1C104A077	C 0.1UF 16V	
	C8085	F1G1C104A077	C 0.1UF 16V	
	C8095	F1J0G2260001	C 22 UF 4 V	
	C8097	F1J0G2260001	C 22 UF 4 V	
	C8098	F1J0G2260001	C 22 UF 4 V	
	C8099	F1J0G2260001	C 22 UF 4 V	
	C8100	F1J1A106A087	C 10UF, 10V	
	C8101	F1J1A106A087	C 10UF, 10V	
	C8103	F1G1C104A077	C 0.1UF 16V	
	C8106	F1G1C104A077	C 0.1UF 16V	
	C8114	F1G1C104A077	C 0.1UF 16V	
	C8115	F1G1C104A077	C 0.1UF 16V	
	C8117	F1G1C104A077	C 0.1UF 16V	
	C8127	F1G1C104A077	C 0.1UF 16V	
	C8129	F1H1A225A051	C 2.2UF, 10V	
	C8131	F1H1A225A051	C 2.2UF, 10V	
	C8140	F1G1H5R0A947	C 5PF, 50V	
	C8142	F1G1H6R00009	C 6.0PF, 50V	
	C8143	F1G1C104A077	C 0.1UF 16V	
	C8213	F1G1C104A077	C 0.1UF 16V	
	C8215	F1G1C104A077	C 0.1UF 16V	
	C8216	F1G1C104A077	C 0.1UF 16V	
	C8228	F1J1A106A087	C 10UF, 10V	
	C8229	F1G1C104A077	C 0.1UF 16V	
	C8230	F1G1C104A077	C 0.1UF 16V	
	C8231	F1G1C104A077	C 0.1UF 16V	
	C8232	F1G1C104A077	C 0.1UF 16V	
	C8233	F1G1C104A077	C 0.1UF 16V	
	C8234	F1G1C104A077	C 0.1UF 16V	
	C8355	F1JZZ1060001	C 10UF, 20V	
	C8357	F1JZZ1060001	C 10UF, 20V	
	C8360	F1JZZ1060001	C 10UF, 20V	
	C8362	F1G1E682A059	C 6800PF 25V	
	C8371	F1JZZ1060001	C 10UF, 20V	
	C8413	F1G1C104A077	C 0.1UF 16V	
	C8414	F1JZZ1060001	C 10UF, 20V	
	C8703	F1J1A106A087	C 10UF, 10V	
	C8704	F1G1C104A077	C 0.1UF 16V	
	C8709	F1J1A106A087	C 10UF, 10V	
	C8710	F1J1A106A087	C 10UF, 10V	
	C8711	F1JZZ1060001	C 10UF, 20V	
	C8713	F1G1H821A830	C 820 pF 50 V	
	C8714	F1H1A225A051	C 2.2UF, 10V	
	C8715	F1H1A225A051	C 2.2UF, 10V	
	C8720	F1JZZ1060001	C 10UF, 20V	
	C8721	F1JZZ1060001	C 10UF, 20V	
	C8722	F1JZZ1060001	C 10UF, 20V	
	C8723	F1JZZ1060001	C 10UF, 20V	
	C8725	F1G1H821A830	C 820 pF 50 V	
	C8726	F1J0G2260001	C 22 UF 4 V	
	C8727	F1J1A106A087	C 10UF, 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8728	F1JZZ1060001	C 10UF, 20V	
	C8730	F1JZZ1060001	C 10UF, 20V	
	C8731	F1JZZ1060001	C 10UF, 20V	
	C8732	F1J0G2260001	C 22 UF 4 V	
	C8735	F1G1H821A830	C 820 pF 50 V	
	C8739	F1G1H821A830	C 820 pF 50 V	
	C8773	F1J1A106A087	C 10UF, 10V	
	C8775	F1G1A105A047	C 1UF 10V	
	C8776	F1J1A106A110	C 10UF, 10V	
	C8780	F1G1A105A047	C 1UF 10V	
	C8781	F1G1A105A047	C 1UF 10V	
		DIODES		
	D3050	K7AAAY000015	DIODE	
	D4703	B0JCME000076	DIODE	
	D4723	DB2J30900L	DIODE	
	D5005	DA2J10100L	DIODE	
	D5172	DZ2J180M0L	DIODE	
	D5173	DA2J10100L	DIODE	
	D5180	DZ2J033M0L	DIODE	
	D5480	DB2J30900L	DIODE	
	D7101	D4EAY621A134	DIODE	
	D7104	B0EAKR000022	DIODE	
	D7105	B0EAKR000022	DIODE	
	D7106	B0EBNT000028	DIODE	
	D7211	B0JAME000126	DIODE	
	D7212	B0JAME000126	DIODE	
	D7216	B0HASR000018	DIODE	
	D7217	B0BC02400023	DIODE	
	D7301	DZ2J039M0L	DIODE	
	D7302	B0HAGQ000001	DIODE	
	D7303	DZ2J039M0L	DIODE	
	D7304	B0HAGQ000001	DIODE	
	D7305	B0ADCK000001	DIODE	
	D7306	B0BC02400023	DIODE	
	D7307	B0BC02400023	DIODE	
	D7308	B0BC02400023	DIODE	
	D7309	B0JAME000126	DIODE	
	D7310	B0JAME000126	DIODE	
	D7311	B0BC02700041	DIODE	
	D7401	B0JBSK000024	DIODE	
	D7402	B0JBSK000024	DIODE	
	D7404	B0ADCK000001	DIODE	
	D7405	DA2J10100L	DIODE	
	D7408	B0JDSG000010	DIODE	
	D7409	B0JDSG000010	DIODE	
	D8705	DB2J30900L	DIODE	
		INTEGRATED CIRCUITS		
	IC4900	C1AB00003871	IC	
	IC5000	AN34043A-VF	IC	
	IC5416	C0DBGYY02973	IC	
	IC5603	C0DBZYY00368	IC	
	IC6700	C1AB00003878	IC	
	IC7201	C0DBBY000050	IC	
	IC7301	C0DBAYY01329	IC	
	IC7401	C0DBZYY00531	IC	
	IC7502	C0DBGYY03054	IC	
	IC8001	C1AB00003884	IC	
	IC8004	TVR4G248-AD	ROM IC (C3FBQY000054)	
	IC8007	C3EBJY000048	IC	
	IC8100	C3FBQY000054	IC	
	IC8200	C3ABUY000033	IC	
	IC8301	C0DBAYY01273	IC	
	IC8700	C0DBAYY01273	IC	
	IC8701	C0DBAYY01273	IC	
	IC8702	C0DBGYY01826	IC	
	IC8703	C0DBGYY01631	IC	
	IC8704	C0DBAYY01273	IC	
	IC8705	C0DBAYY01273	IC	
	IC8706	C0CBCBC00227	IC	
	IC8707	C0DBGYY02926	IC	
		COILS		
	L2001	J0JYC0000328	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L3003	J0JCC0000287	COIL	
	L3004	J0JCC0000287	COIL	
	L3005	J0JCC0000287	COIL	
	L3101	J0ZZB0000142	FILTER	
	L3102	J0ZZB0000142	FILTER	
	L3103	J0ZZB0000142	FILTER	
	L3122	J0JCC0000287	COIL	
	L3123	J0JCC0000287	COIL	
	L4800	J0JYC0000464	BEAD CORE	
	L4801	J0JYC0000464	BEAD CORE	
	L4900	G1C150MA0533	INDUCTOR	
	L4901	G1C150MA0533	INDUCTOR	
	L4902	G1C150MA0533	INDUCTOR	
	L4903	G1C150MA0533	INDUCTOR	
	L4906	J0JBC0000116	BEAD CORE	
	L4907	J0JBC0000116	BEAD CORE	
	L4908	J0JBC0000116	BEAD CORE	
	L4909	J0JBC0000116	BEAD CORE	
	L4910	J0JHC0000078	BEAD CORE	
	L4911	J0JHC0000078	BEAD CORE	
	L4912	J0JHC0000078	BEAD CORE	
	L4913	J0JHC0000078	BEAD CORE	
	L5605	J0ZZB0000142	FILTER	
	L5606	J0JHC0000045	COIL	
	L7201	J0JKB0000034	EMI FILTER	
	L7202	J0JKB0000034	EMI FILTER	
	L7203	J0JKB0000034	EMI FILTER	
	L7204	J0JKB0000034	EMI FILTER	
	L7301	J0JKB0000034	EMI FILTER	
	L7401	J0JKB0000034	EMI FILTER	
	L7402	J0JKB0000034	EMI FILTER	
	L7403	EXCELSA39V	BEAD CORE	
	L8007	J0JBC0000116	BEAD CORE	
	L8037	J0JCC0000287	COIL	
	L8039	J0JHC0000045	COIL	
	L8051	J0JCC0000245	BEAD CORE	
	L8317	G1C2R2ZA0240	COIL	
	L8700	G1C3R3ZA0240	INDUCTOR	
	L8701	G1C4R7ZA0240	INDUCTOR	
	L8703	G1C4R7ZA0240	INDUCTOR	
	L8704	G1C2R2ZA0240	COIL	
		TRANSISTORS		
	Q2003	B1ABCE000015	TRANSISTOR	
	Q2004	B1ABCE000015	TRANSISTOR	
	Q2005	B1ABCE000015	TRANSISTOR	
	Q2007	B1ABCE000015	TRANSISTOR	
	Q2800	B1ABCE000015	TRANSISTOR	
	Q2801	B1ABCE000015	TRANSISTOR	
	Q4513	B1ADCF000194	TRANSISTOR	
	Q4514	B1HFCEA00001	TRANSISTOR	
	Q4702	B1ABCE000015	TRANSISTOR	
	Q4703	B1ABCE000015	TRANSISTOR	
	Q5101	B1ABBE000003	TRANSISTOR	
	Q5102	B1ABBE000003	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	
	Q8700	B1ABBE000003	TRANSISTOR	
	Q8701	B1ABBE000003	TRANSISTOR	
		RESISTORS		
	R0900	D0GA272JA023	M 2.7KOHM, J.1/16W	
	R0901	D0GA272JA023	M 2.7KOHM, J.1/16W	
	R0902	D0GA220JA023	M22 OHM, J.1/16 W	
	R0903	D0GA220JA023	M22 OHM, J.1/16 W	
	R0904	D0GA220JA023	M22 OHM, J.1/16 W	
	R0905	D0GA220JA023	M22 OHM, J.1/16 W	
	R0906	D0GA272JA023	M 2.7KOHM, J.1/16W	
	R0907	D0GA272JA023	M 2.7KOHM, J.1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R0944	D0GA102JA023	M1KOHM, J.1/16 W	
	R0945	D0GA102JA023	M1KOHM, J.1/16 W	
	R0970	D0GA473JA023	M 47KOHM, J.1/16W	
	R0971	D0GA102JA023	M1KOHM, J.1/16 W	
	R0972	D0GA101JA023	M 100 OHM, J.1/16W	
	R0973	D0GA101JA023	M 100 OHM, J.1/16W	
	R0974	D0GA473JA023	M 47KOHM, J.1/16W	
	R0975	D0GA473JA023	M 47KOHM, J.1/16W	
	R1953	D0GA103JA023	M10KOHM, J.1/16 W	
	R2006	D0GA102JA023	M1KOHM, J.1/16 W	
	R2009	D0GA102JA023	M1KOHM, J.1/16 W	
	R2012	D0GA222JA023	M 2.2KOHM, J.1/16W	
	R2013	D0GA101JA023	M 100 OHM, J.1/16W	
	R2014	D0GA103JA023	M10KOHM, J.1/16 W	
	R2018	D0GA473JA023	M 47KOHM, J.1/16W	
	R2019	D0GA473JA023	M 47KOHM, J.1/16W	
	R2020	D0GA101JA023	M 100 OHM, J.1/16W	
	R2026	D1BB5601A073	M 5.6KOHM, J.1/10W	
	R2027	D0GA102JA023	M1KOHM, J.1/16 W	
	R2029	D0GA472JA023	M 4.7KOHM, J.1/16W	
	R2031	D0GA103JA023	M10KOHM, J.1/16 W	
	R2033	D0GA103JA023	M10KOHM, J.1/16 W	
	R2034	D0GA473JA023	M 47KOHM, J.1/16W	
	R2035	D0GA473JA023	M 47KOHM, J.1/16W	
	R2042	D0GA102JA023	M1KOHM, J.1/16 W	
	R2046	D1BA7151A023	M 7.15KOHM, F.1/16 W	
	R2800	D1BA9530A014	M 953 OHM, F. 1/16 W	
	R2801	D0GA473JA023	M 47KOHM, J.1/16W	
	R2802	D0GA223JA023	M 22K OHM J.1/16W	
	R2803	D0GA473JA023	M 47KOHM, J.1/16W	
	R2804	D0GA103JA023	M10KOHM, J.1/16 W	
	R2805	D1BA2261A023	M 2.26 KOHM, F.1/16 W	
	R2806	D0GA470JA023	M 47 OHM, J.1/16W	
	R2807	D0GA153JA023	M 15K OHM J.1/16W	
	R2808	D0GA183JA023	M 18K OHM J.1/16W	
	R2852	D1BD9100A066	M 910 OHM, F. 1/16 W	
	R2853	D1BD1401A066	M 1.4KOHM, F, 1/16W	
	R2854	D1BD1801A066	M 1.8KOHM, F.1/8W	
	R2855	D1BD5601A066	M 5.6KOHM, F.1/8W	
	R3059	D1BD75R0A066	M 75.0 OHM, F.1/8 W	
	R3060	D0GA101JA023	M 100 OHM, J.1/16W	
	R3061	D0GA512JA023	M 5.1KOHM, J.1/16W	
	R3062	D0GA512JA023	M 5.1KOHM, J.1/16W	
	R3063	D0GA103JA023	M10KOHM, J.1/16 W	
	R3064	D0GA103JA023	M10KOHM, J.1/16 W	
	R3070	D0GA101JA023	M 100 OHM, J.1/16W	
	R3099	D0GA102JA023	M1KOHM, J.1/16 W	
	R3100	D0GAR00J0005	M 0 OHM, 1/16W	
	R3103	D1BD75R0A066	M 75.0 OHM, F.1/8 W	
	R3105	D1BD75R0A066	M 75.0 OHM, F.1/8 W	
	R3113	D0GAR00J0005	M 0 OHM, 1/16W	
	R3122	D1BD56R0A066	M 56 OHM, F.1/8W	
	R3123	EXB28V101JX	M 100 OHM 1/32 W	
	R3124	D1BD56R0A066	M 56 OHM, F.1/8W	
	R3127	D0GA473JA023	M 47KOHM, J.1/16W	
	R3139	D0GA101JA023	M 100 OHM, J.1/16W	
	R3175	D1BD18R0A066	M 18 OHM, F.1/8W	
	R3176	D1BD18R0A066	M 18 OHM, F.1/8W	
	R3178	D1BD18R0A066	M 18 OHM, F.1/8W	
	R3192	D0GA101JA023	M 100 OHM, J.1/16W	
	R3193	D0GA101JA023	M 100 OHM, J.1/16W	
	R3194	D1BD56R0A066	M 56 OHM, F.1/8W	
	R3195	D0GA101JA023	M 100 OHM, J.1/16W	
	R3196	D0GA101JA023	M 100 OHM, J.1/16W	
	R3199	D0GA512JA023	M 5.1KOHM, J.1/16W	
	R3200	D0GA512JA023	M 5.1KOHM, J.1/16W	
	R3201	D0GA103JA023	M10KOHM, J.1/16 W	
	R3202	D0GA103JA023	M10KOHM, J.1/16 W	
	R3203	D1BD75R0A066	M 75.0 OHM, F.1/8 W	
	R3205	D0GA101JA023	M 100 OHM, J.1/16W	
	R3206	D0GA220JA023	M22 OHM, J.1/16 W	
	R3207	D0GA220JA023	M22 OHM, J.1/16 W	
	R3228	D0GA273JA023	M 27K OHM J.1/16W	

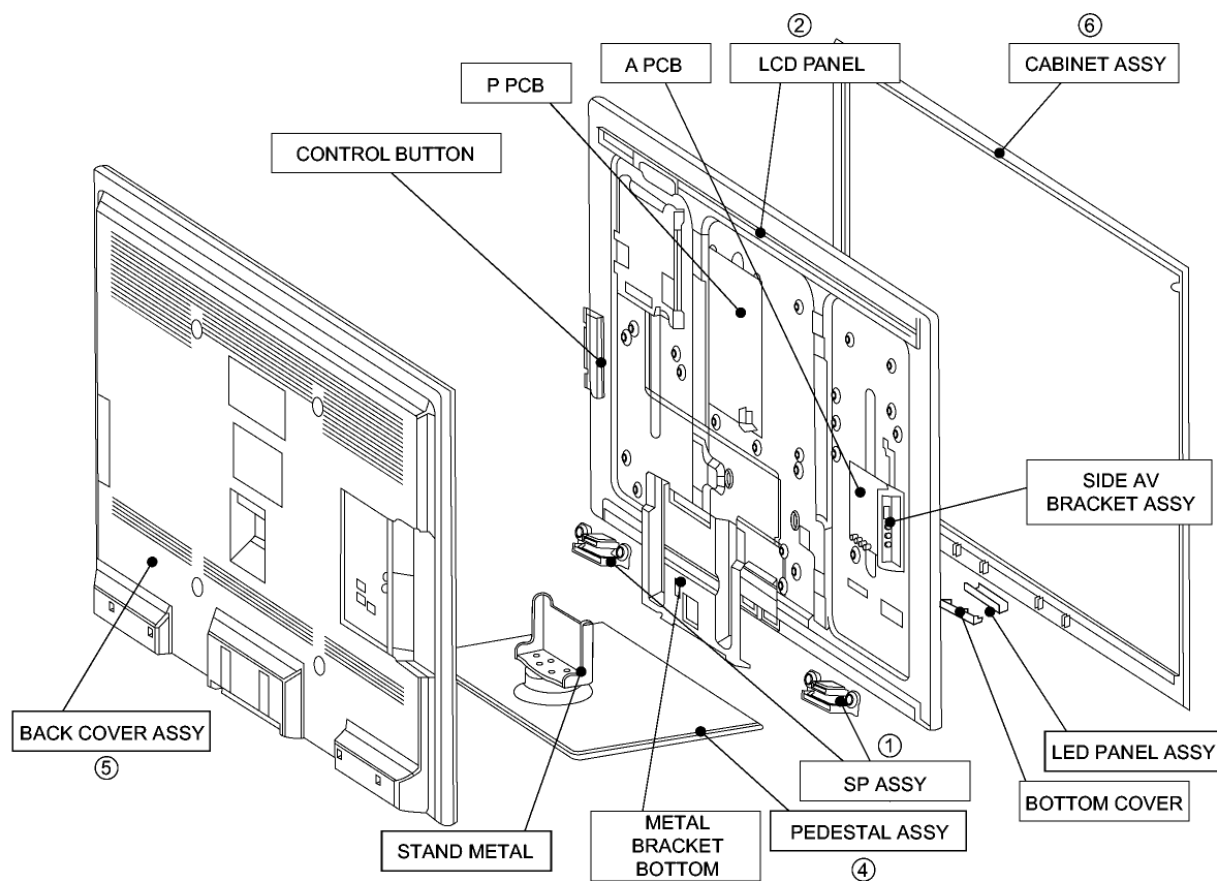
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R3238	D0GA472JA023	M 4.7KOHM, J,1/16W	
	R4150	D0GA681JA023	M680 OHM, J,1/16W	
	R4156	D0GAR00J0005	M 0 OHM, 1/16W	
	R4159	D0GAR00J0005	M 0 OHM, 1/16W	
	R4548	D0GA220JA023	M22 OHM, J,1/16 W	
	R4549	D0GA151JA023	M 150 OHM, J,1/16W	
	R4550	D0GA151JA023	M 150 OHM, J,1/16W	
	R4551	D0GA151JA023	M 150 OHM, J,1/16W	
	R4552	D0GA560JA023	M 56 OHM, J,1/16W	
	R4554	D0GA102JA023	M1KOHM, J.1/16 W	
	R4560	D0GA473JA023	M 47KOHM, J,1/16W	
	R4563	D0GA103JA023	M10KOHM, J.1/16 W	
	R4715	D0GA103JA023	M10KOHM, J.1/16 W	
	R4716	D0GB101JA069	M 100 OHM,J,1/10W	
	R4717	D0GB101JA069	M 100 OHM,J,1/10W	
	R4718	D0GA473JA023	M 47KOHM, J,1/16W	
	R4719	D0GA473JA023	M 47KOHM, J,1/16W	
	R4720	D0GB101JA069	M 100 OHM,J,1/10W	
	R4721	D0GA103JA023	M10KOHM, J.1/16 W	
	R4722	D0GB101JA069	M 100 OHM,J,1/10W	
	R4724	D0GA102JA023	M1KOHM, J.1/16 W	
	R4726	D0GB101JA069	M 100 OHM,J,1/10W	
	R4727	D0GB101JA069	M 100 OHM,J,1/10W	
	R4744	D0GA103JA023	M10KOHM, J.1/16 W	
	R4745	D0GA473JA023	M 47KOHM, J,1/16W	
	R4746	D0GA473JA023	M 47KOHM, J,1/16W	
	R4747	D0GA103JA023	M10KOHM, J.1/16 W	
	R4748	D0GA102JA023	M1KOHM, J.1/16 W	
	R4749	D0GA220JA023	M22 OHM, J.1/16 W	
	R4753	D0GA103JA023	M10KOHM, J.1/16 W	
	R4754	D0GA473JA023	M 47KOHM, J,1/16W	
	R4755	D0GA473JA023	M 47KOHM, J,1/16W	
	R4838	D0GA103JA023	M10KOHM, J.1/16 W	
	R4845	D0GA221JA023	M220 OHM, J.1/16 W	
	R4859	D0GA223JA023	M 22K OHM J 1/16W	
	R4875	D0GA821JA023	M 820OHM ,J, 1/16W	
	R4876	D0GA821JA023	M 820OHM ,J, 1/16W	
	R4898	D0GA101JA023	M 100 OHM, J,1/16W	
	R4899	D0GA101JA023	M 100 OHM, J,1/16W	
	R4912	D0GA151JA023	M 150 OHM, J,1/16W	
	R4913	D0GA151JA023	M 150 OHM, J,1/16W	
	R4914	D0GA151JA023	M 150 OHM, J,1/16W	
	R4915	D0GA151JA023	M 150 OHM, J,1/16W	
	R5002	D0GA683JA023	M 68KOHM, J,1/16W	
	R5003	D0GA103JA023	M10KOHM, J.1/16 W	
	R5006	D0GA563JA023	M 56KOHM, J,0.063W	
	R5007	D0GA223JA023	M 22K OHM J 1/16W	
	R5009	D1BA5602A023	M 56KOHM,F. 1/16 W	
	R5010	D0GA102JA023	M1KOHM, J.1/16 W	
	R5012	D1BA2202A023	M 22KOHM,F. 1/16 W	
	R5032	EXB28V103JX	M 10KOHM 1/32 W	
	R5040	D0GA103JA023	M10KOHM, J.1/16 W	
	R5054	D0GA223JA023	M 22K OHM J 1/16W	
	R5056	D0GA103JA023	M10KOHM, J.1/16 W	
	R5061	D0GA223JA023	M 22K OHM J 1/16W	
	R5063	D0GA102JA023	M1KOHM, J.1/16 W	
	R5064	D0GA103JA023	M10KOHM, J.1/16 W	
	R5174	D0GA222JA023	M 2.2KOHM, J,1/16W	
	R5175	D0GA680JA023	M 68 OHM, J,1/16W	
	R5176	D0GA683JA023	M 68KOHM, J,1/16W	
	R5178	D0GA222JA023	M 2.2KOHM, J,1/16W	
	R5179	D0GA183JA023	M 18K OHM J.1/16W	
	R5182	D0GA103JA023	M10KOHM, J.1/16 W	
	R5183	D0GA473JA023	M 47KOHM, J,1/16W	
	R5184	D0GA103JA023	M10KOHM, J.1/16 W	
	R5185	D0GA473JA023	M 47KOHM, J,1/16W	
	R5608	D0GA103JA023	M10KOHM, J.1/16 W	
	R5609	D0GA103JA023	M10KOHM, J.1/16 W	
	R6000	D0GAR00J0005	M 0 OHM, 1/16W	
	R6001	D0GAR00J0005	M 0 OHM, 1/16W	
	R6004	D0GA332JA023	M 3.3KOHM, J,1/16W	
	R6005	D0GA332JA023	M 3.3KOHM, J,1/16W	
	R6006	D0GA101JA023	M 100 OHM, J,1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R6007	D0GA101JA023	M 100 OHM, J,1/16W	
	R6017	D0GA101JA023	M 100 OHM, J,1/16W	
	R6712	D0GA473JA023	M 47KOHM, J,1/16W	
	R6713	D0GA473JA023	M 47KOHM, J,1/16W	
	R6738	D1H84704A042	M 47 OHM, J,1/16W	
	R6739	D0GA470JA023	M 47 OHM, J,1/16W	
	R6742	D0GA152JA023	M 1.5KOHM, J,1/16W	
	△ R7101	D0GF105JA048	M 1M OHM. 1/4W	
	△ R7102	D0GF105JA048	M 1M OHM. 1/4W	
	△ R7103	D0GF105JA048	M 1M OHM. 1/4W	
	R7104	D0B1106JA033	M 10MOHM J 1W	
	R7201	ERX1SJR22	M0.22 OHM, J, 1W	
	R7202	ERX1SJR22	M0.22 OHM, J, 1W	
	R7203	D0GD104JA052	M 100KOHM,J,1/8W	
	R7204	D0GD101JA059	M 100 OHM,J,1/4W	
	R7205	D0GD101JA052	M 100 OHM,J,1/8W	
	R7206	D0GD100JA059	M 10 OHM,J,1/4W	
	R7207	D0GD104JA052	M 100KOHM,J,1/8W	
	R7208	ERX1SJR22	M0.22 OHM, J, 1W	
	R7212	D0GD103JA052	M 10KOHM,J,1/8W	
	R7219	D0GD513JA052	M 51KOHM,J,1/8W	
	R7220	D0GD223JA052	M 22KOHM,J,1/8W	
	R7224	D1BD8203A066	M 820KOHM,F.1/8W	
	R7225	D1BF1504A073	M 1.5MOHM , 1/16W	
	R7226	D1BF1504A073	M 1.5MOHM , 1/16W	
	R7227	D1BF1504A073	M 1.5MOHM , 1/16W	
	R7228	D1BF1504A073	M 1.5MOHM , 1/16W	
	R7229	D1BD2003A066	M 200KOHM.F.1/8W	
	R7230	D1BD4422A066	M 44.2KOHM,F.1/8W	
	R7231	D1BD4303A066	M 430KOHM,F.1/8W	
	R7232	D1BD3603A066	M 360KOHM,F.1/8W	
	R7234	D1BD8203A066	M 820KOHM,F.1/8W	
	R7302	D0GD101JA059	M 100 OHM,J,1/4W	
	R7303	D0GD101JA059	M 100 OHM,J,1/4W	
	R7304	D0AF2R2JA112	C 2.2 OHM, J,1/2W	
	R7305	D0AF151JA112	C 150 OHM, J,1/2W	
	R7306	D0GD222JA052	M 2.2KOHM,J,1/8W	
	R7307	D0GD561JA052	M 560 OHM,J,1/8W	
	R7308	D0GD561JA052	M 560 OHM,J,1/8W	
	R7312	D0AF222JA112	C 2.2KOHM, J,1/2W	
	R7314	D0GD104JA052	M 100KOHM,J,1/8W	
	R7315	D0GD222JA052	M 2.2KOHM,J,1/8W	
	R7317	D0GD223JA052	M 22KOHM,J,1/8W	
	R7318	D0GD473JA052	M 47KOHM,J,1/8W	
	R7319	D0GD473JA052	M 47KOHM,J,1/8W	
	R7320	D0GD473JA052	M 47KOHM,J,1/8W	
	R7321	D0GD100JA059	M 10 OHM,J,1/4W	
	R7322	D0GD100JA059	M 10 OHM,J,1/4W	
	R7323	D0GD223JA052	M 22KOHM,J,1/8W	
	R7324	D0GD223JA052	M 22KOHM,J,1/8W	
	R7401	D0GD102JA052	M 1.0KOHM,J,1/8W	
	R7402	D0GD102JA052	M 1.0KOHM,J,1/8W	
	R7403	D0GD472JA052	M 4.7KOHM,J,1/8W	
	R7404	D0GD103JA052	M 10KOHM,J,1/8W	
	R7405	D0GD222JA052	M 2.2KOHM,J,1/8W	
	R7406	D1BD3321A066	M 3.32KOHM,F.1/8W	
	R7407	D0GD102JA052	M 1.0KOHM,J,1/8W	
	R7408	D1BD1822A066	M 18.2KOHM,F.1/8W	
	R7409	D0GD473JA052	M 47KOHM,J,1/8W	
	R7410	D0GD153JA052	M 15KOHM,J,1/8W	
	R7411	D0GD134JA052	M 130KOHM,J,1/8W	
	R7412	D0GD153JA052	M 15KOHM,J,1/8W	
	R7416	D0GD103JA052	M 10KOHM,J,1/8W	
	R7417	D0GD103JA052	M 10KOHM,J,1/8W	
	R7420	D0GD473JA052	M 47KOHM,J,1/8W	
	R7421	D0GD224JA052	M 220KOHM,J,1/8W	
	R7423	D0GDR00J0004	M 0 OHM, 1/8W	
	R8099	D0GA102JA023	M1KOHM, J.1/16 W	
	R8100	D0GA103JA023	M10KOHM, J.1/16 W	
	R8101	D0GA472JA023	M 4.7KOHM, J,1/16W	
	R8102	D0GA101JA023	M 100 OHM, J,1/16W	
	R8103	D0GA103JA023	M10KOHM, J.1/16 W	
	R8104	D0GA101JA023	M 100 OHM, J,1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8105	D1BA2402A023	M 24KOHM, F, 1/16W	
	R8106	D0GA101JA023	M 100 OHM, J, 1/16W	
	R8107	D0GA101JA023	M 100 OHM, J, 1/16W	
	R8120	D0GA471JA023	M 470OHM, J, 1/16W	
	R8130	D1BF75R0A073	M 75.0 OHM, F, 1/4 W	
	R8150	D0GA330JA023	M 33 OHM, J, 1/16W	
	R8151	D0GA330JA023	M 33 OHM, J, 1/16W	
	R8152	D0GA330JA023	M 33 OHM, J, 1/16W	
	R8153	D0GA103JA023	M10KOHM, J, 1/16 W	
	R8154	D0GA103JA023	M10KOHM, J, 1/16 W	
	R8155	D0GA472JA023	M 4.7KOHM, J, 1/16W	
	R8156	D0GA472JA023	M 4.7KOHM, J, 1/16W	
	R8158	D0GAR00J0005	M 0 OHM, 1/16W	
	R8160	D0GA103JA023	M10KOHM, J, 1/16 W	
	R8204	D1BA1001A023	M 1 KOHM, F, 1/16 W	
	R8207	D1BA1001A023	M 1 KOHM, F, 1/16 W	
	R8220	D0GA101JA023	M 100 OHM, J, 1/16W	
	R8222	D1BA2400A023	M 240 OHM, F, 1/16 W	
	R8224	EXB28V101JX	M 100 OHM 1/32 W	
	R8225	EXB28V101JX	M 100 OHM 1/32 W	
	R8226	D1BA1001A023	M 1 KOHM, F, 1/16 W	
	R8227	D1BA1001A023	M 1 KOHM, F, 1/16 W	
	R8240	D0GA103JA023	M10KOHM, J, 1/16 W	
	R8242	EXB28V101JX	M 100 OHM 1/32 W	
	R8243	EXB28V101JX	M 100 OHM 1/32 W	
	R8244	EXB28V101JX	M 100 OHM 1/32 W	
	R8245	EXB28V101JX	M 100 OHM 1/32 W	
	R8390	D0GA101JA023	M 100 OHM, J, 1/16W	
	R8391	D1BA2152A023	M 21.5KOHM, F, 1/16 W	
	R8393	D1BA1501A023	M 1.5KOHM, 1/16W	
	R8700	D1BA6341A023	M 6.34KOHM, J, 1/16W	
	R8701	D1BA2001A023	M 2KOHM, J, 1/16W	
	R8704	D1BA1052A023	M 10.5KOHM, J, 1/16W	
	R8705	D1BA2001A023	M 2KOHM, J, 1/16W	
	R8708	D0GB2R2JA040	M 2.2OHM, J, 1/16W	
	R8709	D0GB2R2JA040	M 2.2OHM, J, 1/16W	
	R8730	D0GB2R2JA040	M 2.2OHM, J, 1/16W	
	R8732	D1BA1071A023	M 1.07KOHM, J, 1/16W	
	R8734	D1BA2001A023	M 2KOHM, J, 1/16W	
	R8737	D0GB2R2JA040	M 2.2OHM, J, 1/16W	
	R8739	D1BA1821A023	M 1.82KOHM, J, 1/16W	
	R8740	D1BA2001A023	M 2KOHM, J, 1/16W	
	R8741	D0GA153JA023	M 15K OHM J 1/16W	
	R8742	D0GA473JA023	M 47KOHM, J, 1/16W	
	R8744	D0GA153JA023	M 15K OHM J 1/16W	
		TRANSFORMERS		
⚠	T7202	G4DYA0000368	INDUCTOR	
⚠	T7301	G4DYA0000372	TRANSFORMER	
		OTHERS		
	A09	K1KY12BA0388	CONNECTOR	
	A10	K1KA07B00135	CONNECTOR	
	A12	K1KA04BA0055	CONNECTOR	
	A16	K1MY51BA0526	CONNECTOR	
⚠	CF7102	D4CAY4R7A095	TERMISTOR	
	CN0100	K1KA14A00248	CONNECTOR	
	D2800A	B3AGB0000065	LED	
⚠	F7101	K5E502YY0001	FUSE	
⚠	F7401	K5H502200003	FUSE	
⚠	F7402	K5H502200003	FUSE	
	FL4000	EXC28CE201U	CHOKE COIL	
	FL4001	EXC28CE201U	CHOKE COIL	
	FL4201	EXC28CE201U	CHOKE COIL	
	FL4202	EXC28CE201U	CHOKE COIL	
	FL4203	EXC28CE201U	CHOKE COIL	
	GK4	K1KA03BA0061	CONNECTOR	
	JA1	ERJ6GEY0R00V	FIXED RESISTOR	
	JK1000A	K1FY119D0026	TERMINAL	
	JK1001A	K1FY119D0026	TERMINAL	
	JK1031	K1FY104E0006	CONNECTOR	
	JK3000	K1U511AA0001	REAR AV TERMINAL	
	JK3300	K4AK06B00003	SIDE AV TERMINAL	
	JK3703A	K1FY315A0013	PC CONNECTOR	
	JK7101	K2AAYB000009	AV TERMINAL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	JS0016	D0GAR00J0005	CHIP RESISTOR	
	JS0026	D0GAR00J0005	CHIP RESISTOR	
	K10	K1KA07A00292	CONNECTOR	
⚠	LF7103	G0B153G00003	LINE FILTER	
⚠	LF7104	G0B153G00003	LINE FILTER	
⚠	LF7105	G0B304GA0078	LINE FILTER	
	P2	K1KY12BA0386	CONNECTOR	
	P4	K1KA12BA0062	CONNECTOR	
	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	
⚠	TU4802	ENV59301D5F	TUNER	
	X6700	H0J270500137	RESONATORS	
	X8301	H0J270500137	RESONATORS	
	ZA7101	K4AD01A00004	RUG TERMINAL	
	ZA7103	K4AD01A00004	RUG TERMINAL	

Model No. : TH-L50EM5S Parts Location

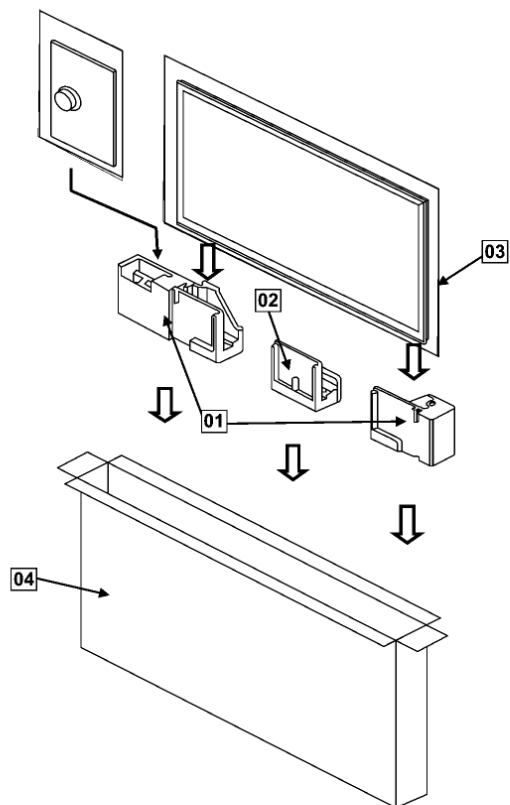


Model No. : TH-L50EM5S Packing Exploded View 1

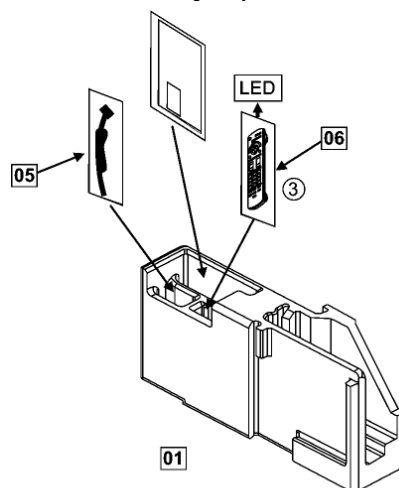
1. Fix bottom and center cushion into packing case.
2. Set LCD set into set cover.
3. Locate and fix LCD set at cushion.
4. Fix pedestal ass'y, AC cord and remote at cushion.

No	Description	Qty	UOM	Remarks
01	BOTTOM CUSHION	1	PC	
02	BOTTOM CENTER CUSHION	1	PC	
03	SET COVER	1	PC	
04	PACKING CASE	1	PC	
05	AC CORD	1	PC	
06	REMOTE TRANSMITTER	1	PC	

Pedestal Ass'y



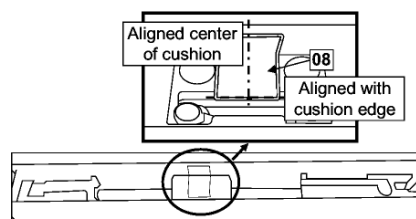
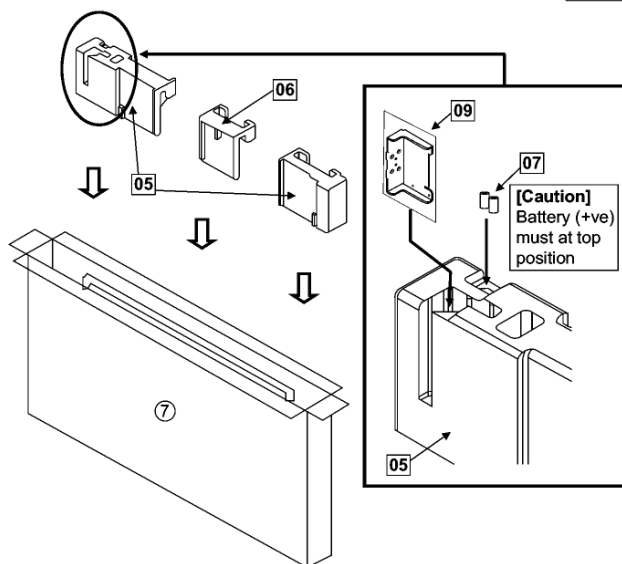
Fan Bag Ass'y



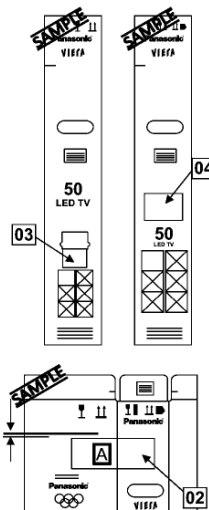
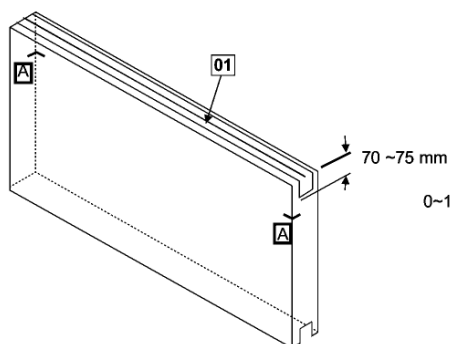
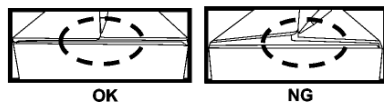
Model No. : TH-L50EM5S Packing Exploded View 2

No	Description	Qty	UOM	Remarks
01	PP TAPE (BTM1.66/TOP1.66)	3	MT	
02	PACKING CASE LABEL	2	PC	
03	LABEL COMBINATION	1	PC	
04	CARTON LABEL	1	PC	
05	TOP CUSHION	1	PC	
06	TOP CENTER CUSHION	1	PC	
07	BATTERY	1	PC	
08	PP TAPE	0	MT	
09	STAND MTG ASSY	1	PC	

1. Fix top and center cushion into packing case.
2. Fix stand mounting ass'y & battery.
3. Stick PP tape to center cushion.
4. Stick PP tape at top and bottom of packing case.
5. Stick all labels.



[Caution]
Need to make sure packing case top & bottom isn't overlap and bending.



Model No. : TH-L50EM5S Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K2CQ2YY00109	AC CORD		
	1	L0AA09B00007	SPEAKER		
	2	L5EDDY00411	LCD PANEL		
	3	N2QAYB000803	REMOTE TRANSMITTER		
	4	TBL5ZX05071	PEDESTAL ASSY		
		TBL5ZX05991	STAND MOUNTING ASSY		
		TBM4GC9871	MODEL NAME PLATE		
		TBX5ZA00601	KEY BUTTON		
		THE4GJ001J	SCREW		
		THEJ036J	SCREW		
		THEJ0389	SCREW		
		THTD030J	SCREW		
		TKK4G8611	COVER		
		TKP5ZA24201	SIDE AV BRACKET		
		TKP5ZA24401	BOTTOM COVER		
		TPD4GA04051	TOP CUSHION		
		TPD4GA04061	BOTTOM CUSHION		
		TPD4GA04071	TOP CENTER CUSHION		
		TPD4GA04081	BOTTOM CENTER CUSHION		
		TPE4GH080	SET COVER		
		TQZ4GB647	FAN BAG ASSY		
		TSCFH0050001	LVDS CABLE		
	5	TTU4GA0835	BACK COVER ASSY		
	6	TTY4GA0289	CABINET ASSY		
		TXFKK5Z0004	LED PANEL ASSY		
		TXFKK5Z0006	LED BRACKET ASSY		
	7	TXFPC01QBUS	PACKING CASE ASSY		
		XSS5+16FJK	SCREW		
		XTV3+10JFJ	SCREW		
		XTV3+12JFJK	SCREW		
		XTW3+8TFJ	SCREW		
		XYN3+C6FJ	SCREW		
		XYN4+F15FJK	SCREW		
Electrical Replacement Part List					
	RTL	TXN/K1TQUE	K PRINT		
	RTL	TXN/P1QKUK	P PRINT		
	RTL	TXNGK1QJUK	GK PRINT		
	RTL	TZT/A1QBUS	A PRINT ASSY		