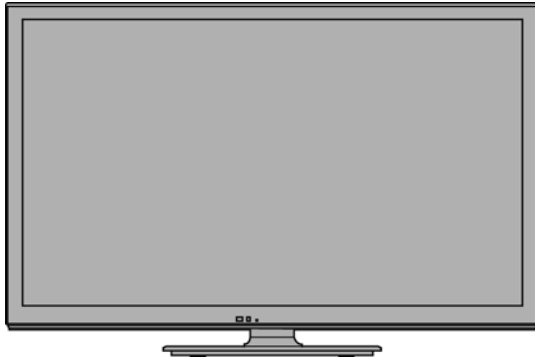


# Service Manual

LCD TV

Model No. **TX-LR32EM5A**Chassis: **KM19E**Destination: **CIS**

## ⚠ 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.

# TENTATIVE

## 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.

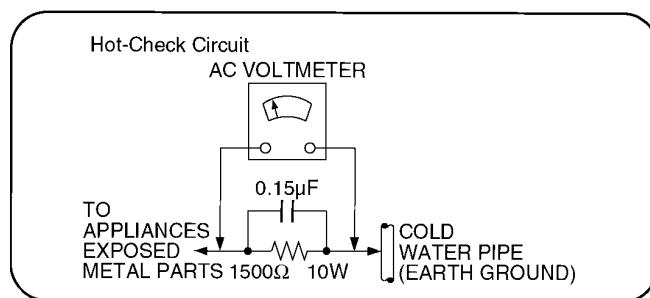


Figure 1

## 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).

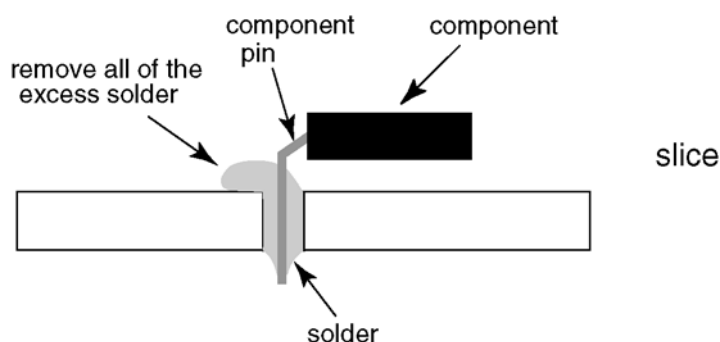
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

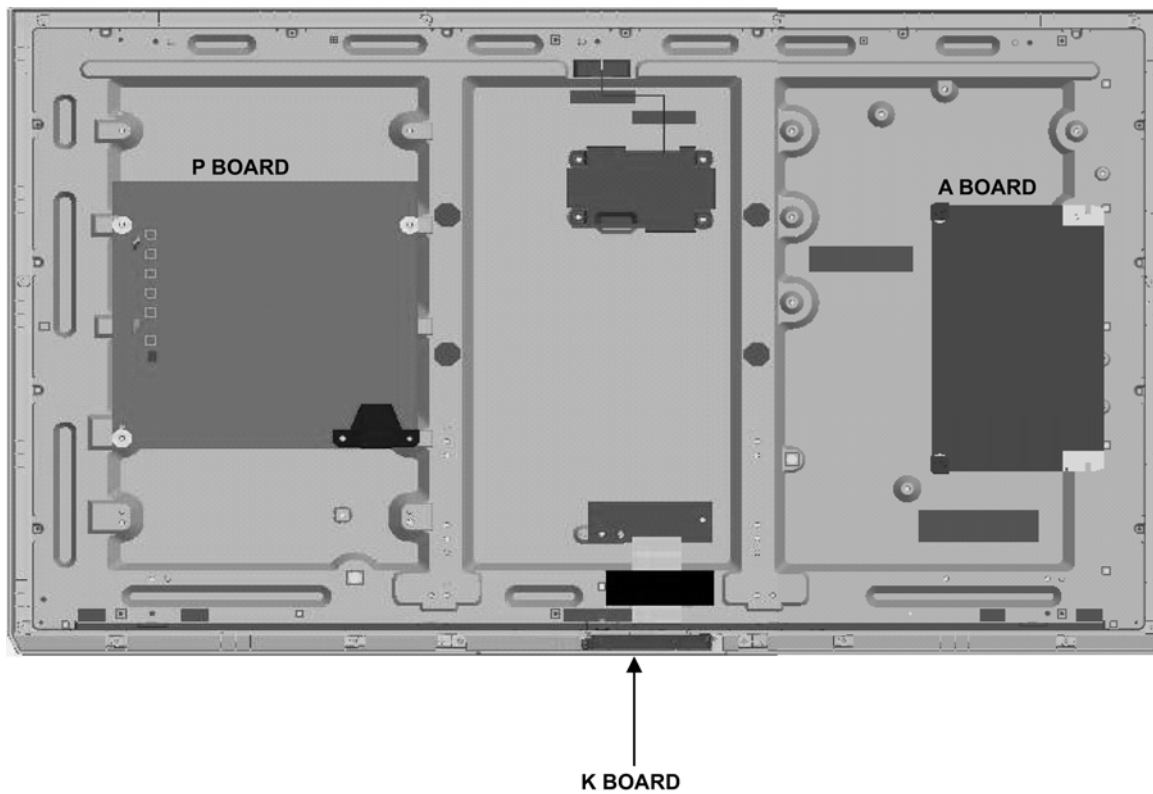
### Caution

- 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, EEP, SPI, MTK IC	Repairable
P BOARD	Power Supply, Power Switch, Keyscan	Repairable
K BOARD	Remote, LED, Luminance Sensor	Repairable

## 4 Specifications

<b>Rated power consumption</b>	66 W
<b>Standby power consumption</b>	0.3 W
<b>Panel</b>	LED LCD panel
<b>Dimensions (W × H × D)</b>	764 mm × 518 mm × 196 mm (With Pedestal) 764 mm × 473 mm × 60 mm (TV only)
<b>Mass</b>	9.0 kg Net (With Pedestal) 8.0 kg Net (TV only)
<b>Sound</b>	
<b>Speaker</b>	(90 mm × 25 mm) × 2, 8 Ω
<b>Audio Output</b>	10 W (5 W + 5 W)
<b>Headphones</b>	M3 (3.5 mm) stereo mini Jack × 1
<b>Receiving systems / Band name</b>	<b>PAL D / K,</b> VHF R1 - R2 VHF R3 - R5 <b>SECAM D, K</b> VHF R6 - R12 UHF E21 - E69 <b>PAL 525/60</b> Playback of NTSC tape from some PAL Video recorders (VCR) <b>M.NTSC</b> Playback from M.NTSC Video recorders (VCR) <b>NTSC</b> Playback from NTSC Video recorders (VCR) <b>(AV input only)</b> <b>DVB-T</b> Digital terrestrial services (MPEG2 and MPEG4-AVC(H.264)) <b>DVB-C</b> Digital cable services (MPEG2 and MPEG4-AVC(H.264))
Check the latest information on the available services at the following website. (English only) <a href="http://panasonic.jp/support/global/cs/tv/">http://panasonic.jp/support/global/cs/tv/</a>	
<b>Aerial input</b>	VHF / UHF
<b>Operating Conditions</b>	<b>Temperature</b> : 0°C - 35°C <b>Humidity</b> : 20 % - 80 % RH (non-condensing)
<b>Connection Terminals</b>	
<b>AV1 input / output</b>	<b>SCART</b> (Audio/Video in, Audio/Video out, RGB in)
<b>AV2 input (COMPONENT / VIDEO)</b>	<b>VIDEO</b> RCA PIN Type × 1 1.0 V[p-p] (75 Ω) <b>AUDIO L - R</b> RCA PIN Type × 2 0.5 V[rms] <b>Y</b> 1.0 V[p-p] (including synchronisation) <b>P<sub>B</sub>, P<sub>R</sub></b> ±0.35 V[p-p]
<b>HDMI 1 / 2 input</b>	TYPE A Connectors HDMI2: Audio Return Channel
<b>USB</b>	USB2.0 DC 5 V, Max. 500 mA
<b>DIGITAL AUDIO OUT</b>	PCM / Dolby Digital / Fibre optic

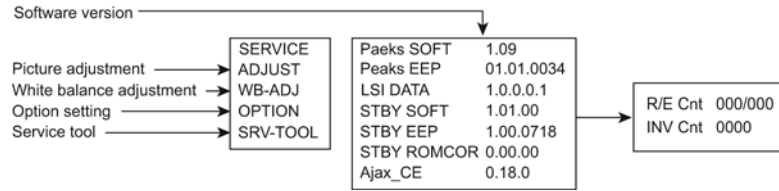
### Note

- 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	Boot	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	FC7
	EDID-CLK	HIGH
SRV-TOOL		00

#### 5.1.2. How to exit

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



## 5.2. SRV-TOOL

### 5.2.1. How to access

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

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

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

### 5.2.2. Display of SOS History

SOS History (Number of LED blinking ) indication.

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

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

### 5.2.3. POWER ON TIME/COUNT

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

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

Count : Number of ON times by decimal

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

### 5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

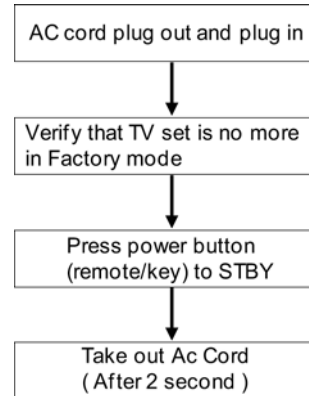
### 5.2.5. Self Check Mode

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

### 5.2.6. Self Check (Device)

Item	
TUN	yes
MEM	yes
EEPROM	yes
SOFT	yes
MODEL ID	yes

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



### 5.2.7. 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.

### 5.2.8. Hotel Mode

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

Then, the Hotel mode setup menu is displayed.

#### Hotel Mode

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



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

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

## 6 Troubleshooting Guide

Use the self-check function to test the unit.

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

### 6.1. Check of the IIC bus lines

#### 6.1.1. How to access

Self-check indication only:

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

Self-check indication and forced to factory shipment setting:

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

#### 6.1.2. Exit

Disconnect the AC cord from wall outlet.

#### 6.1.3. Screen display

SELF CHECK		--- .XXXXXX - XXXXXX
PEAKS	OK	
TUN	OK	
AVSW	OK	
STBY	OK	
MEM1	OK	
MEM2	OK	
MEM3	OK	
DCDC	OK	
DAC	OK	
ID	OK	
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## 6.2. Power LED Blinking timing chart

### 1. Subject

Information of LED Flashing timing chart.

### 2. Contents

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

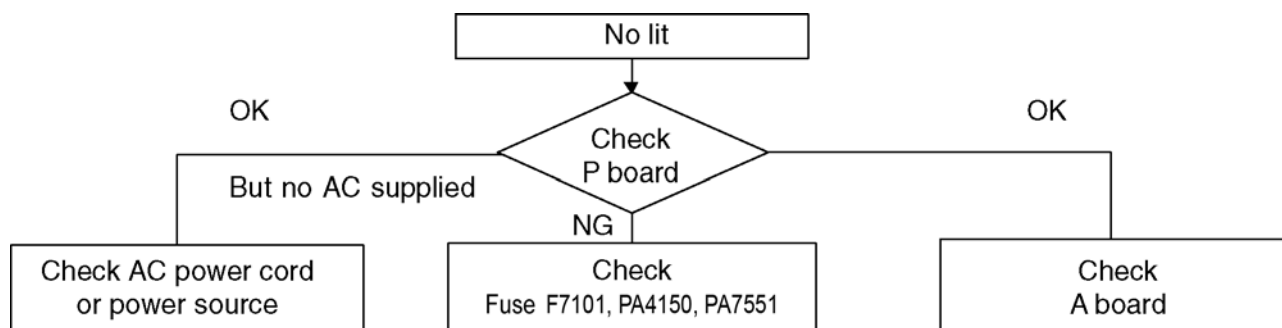
No	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	TV_SOS	SOS from POWER Curcuit	3
3	SOUND_SOS	SOS from audio AMP	9

## 6.3. No Power

First check point

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

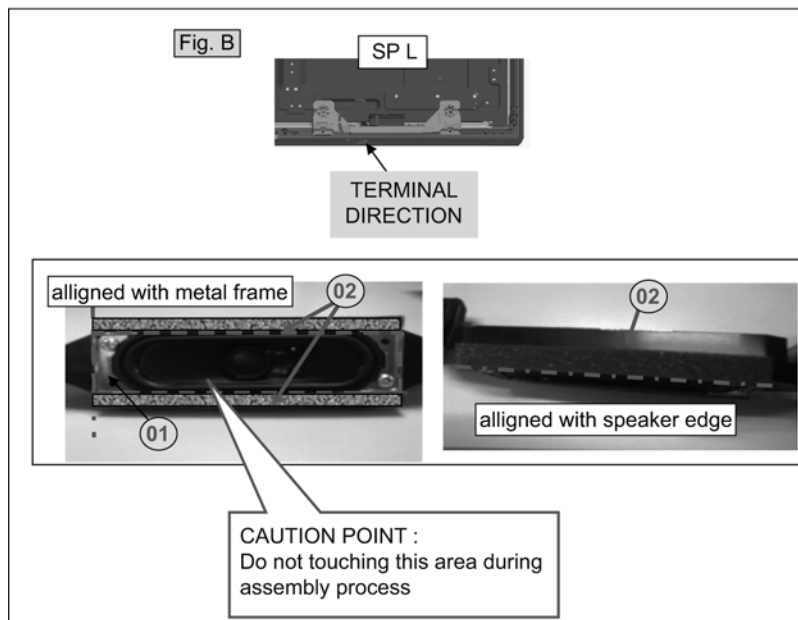
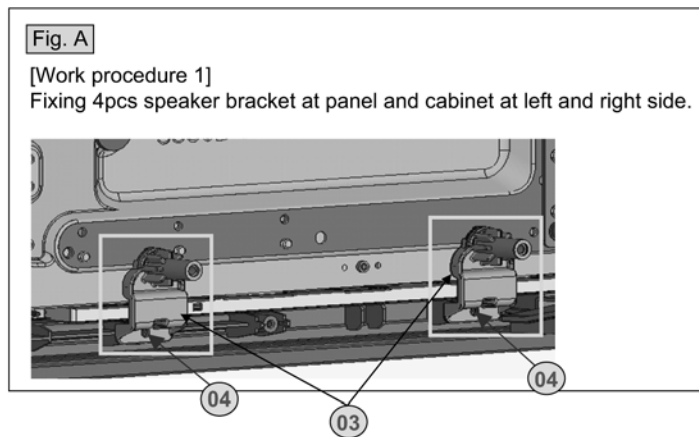
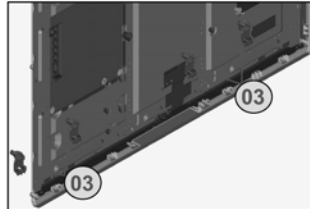
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



# 7 Disassembly and Assembly Instructions

## 7.1. SP Bracket

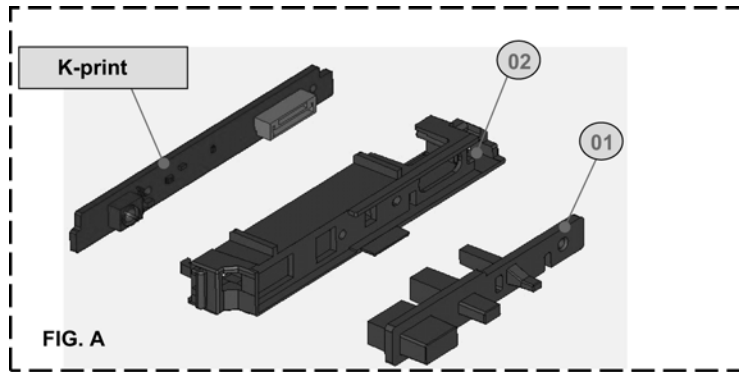
1. Fix Sp. Bracket to cabinet with screw (Fig. A).
2. Stick sponge to Sp. Unit (Fig. B).
3. Fix Speaker assy (L&R) to cabinet (Fig. B).



No	Item	Description	Qty	UOM	Remarks
01	L0AA07B00008	SPEAKER UNIT	2	PC	
02	TMK4GG076	SP SPONGE	4	PC	
03	TKX5ZA02501	SP BRACKET	4	PC	
04	XTV3 + 10JFJ	SCREW(SP BRKT PANEL)	4	PC	

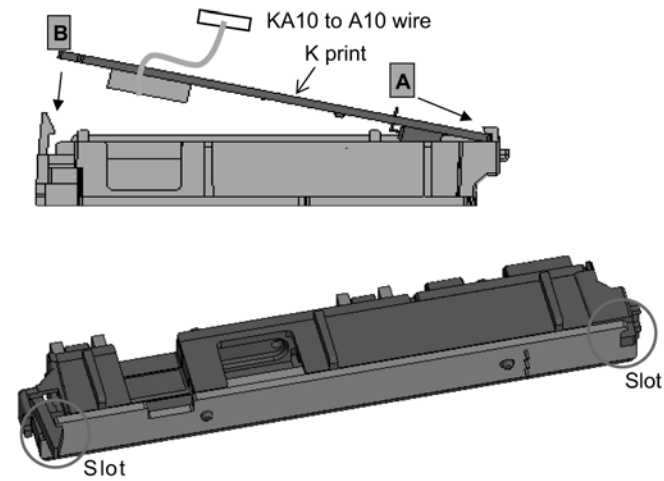
## 7.2. LED Panel Assy

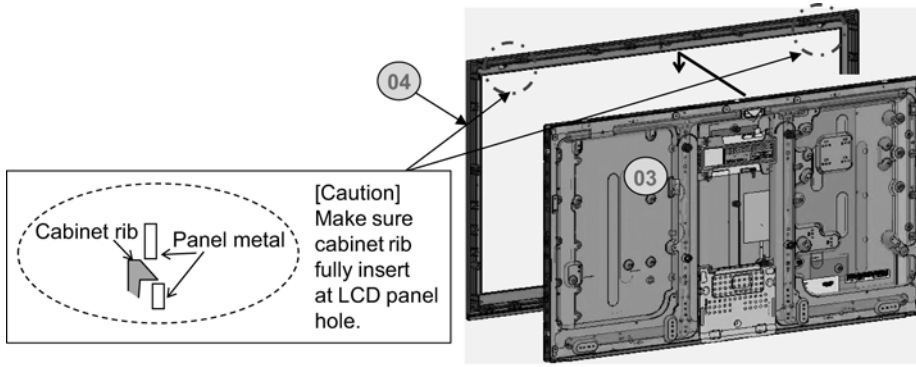
1. Assy LED panel assy, LED panel bracket assy and V-board to Cabinet complete assy (Fig. A).
2. Fix LCD panel to Cabinet assy.



[Work procedure 1]

Slot K-print to Led panel bracket assy and make sure Led panel bracket hook and guide hole are properly insert. Insert follow spec direction A - B.





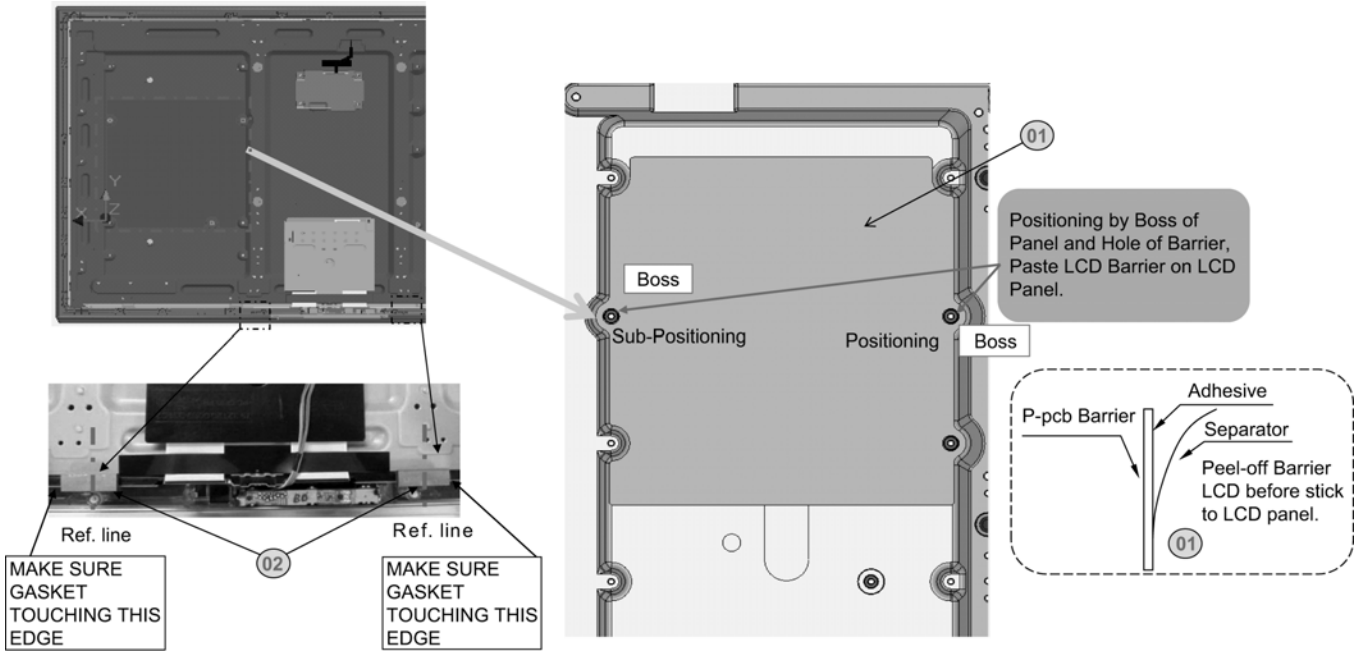
[Work procedure 2]  
 Slot Led panel assy, Led panel bracket assy and V-board to cabinet. Insert follow spec direction C to D.

<Caution Point>  
 Please make sure Led panel bracket assy properly fixing to cabinet hook

No	Item	Description	Qty	UOM
01	TXFKK5Z0004	LED PANEL ASSY	1	PC
02	TXFKK5Z0006	LED BRACKET ASSY	1	PC
03	L5EDDYY00413	LCD PANEL	1	PC
04	TXFKY5Z0413	CABINET ASS'Y	1	PC

### 7.3. Barrier LCD

1. Stick barrier P-pcb to LCD Panel.
2. Stick gasket to LCD Panel.

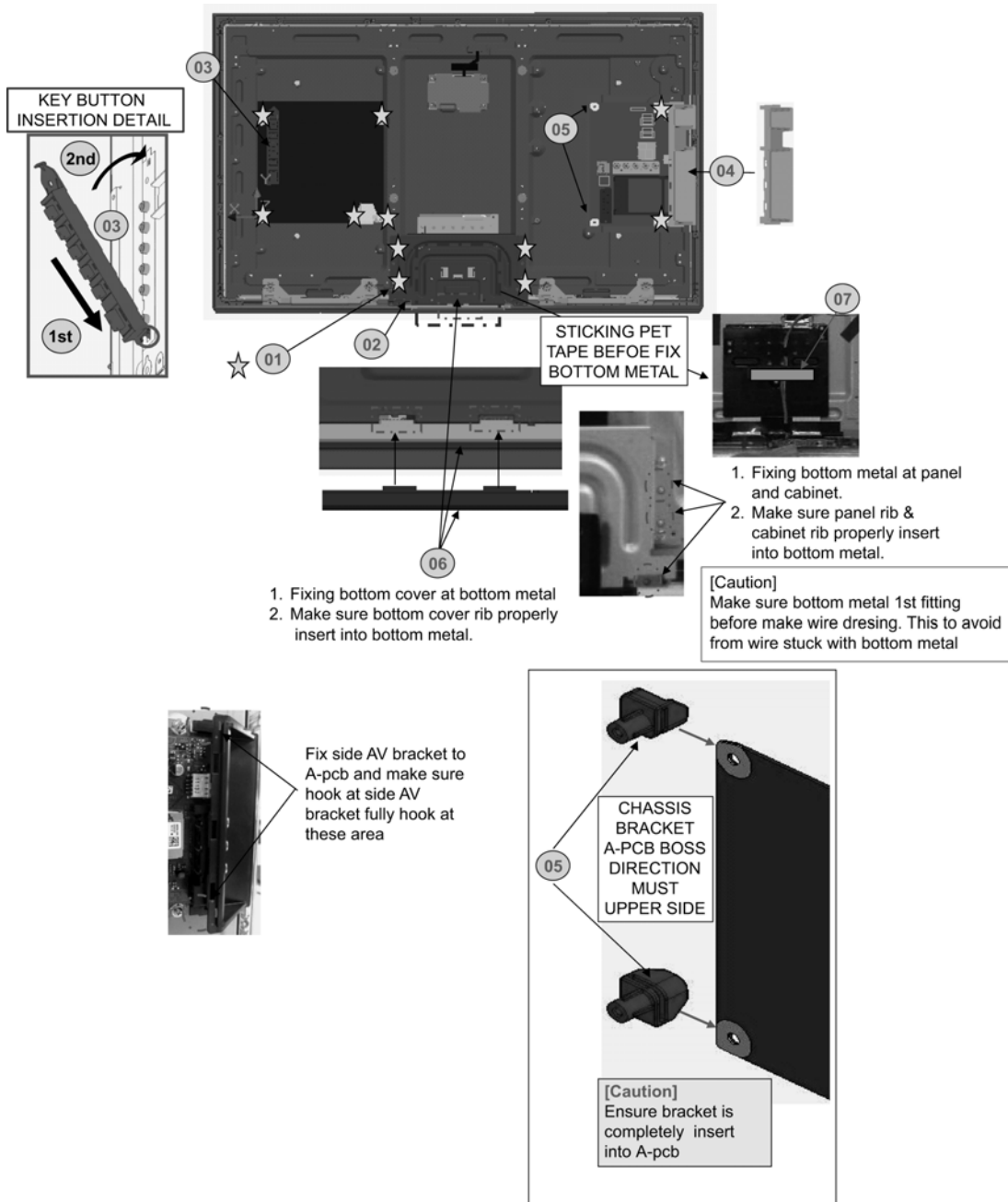


No	Item	Description	Qty	UOM
01	TMK4GX134	BARRIER P-PCB	1	PC
02	TEWB755	GASKET (BTM PANEL)	2	PC



### 7.4. Fixing P Board and A Board

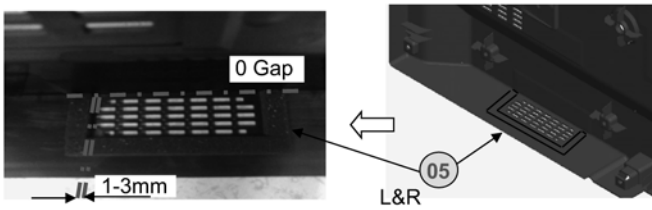
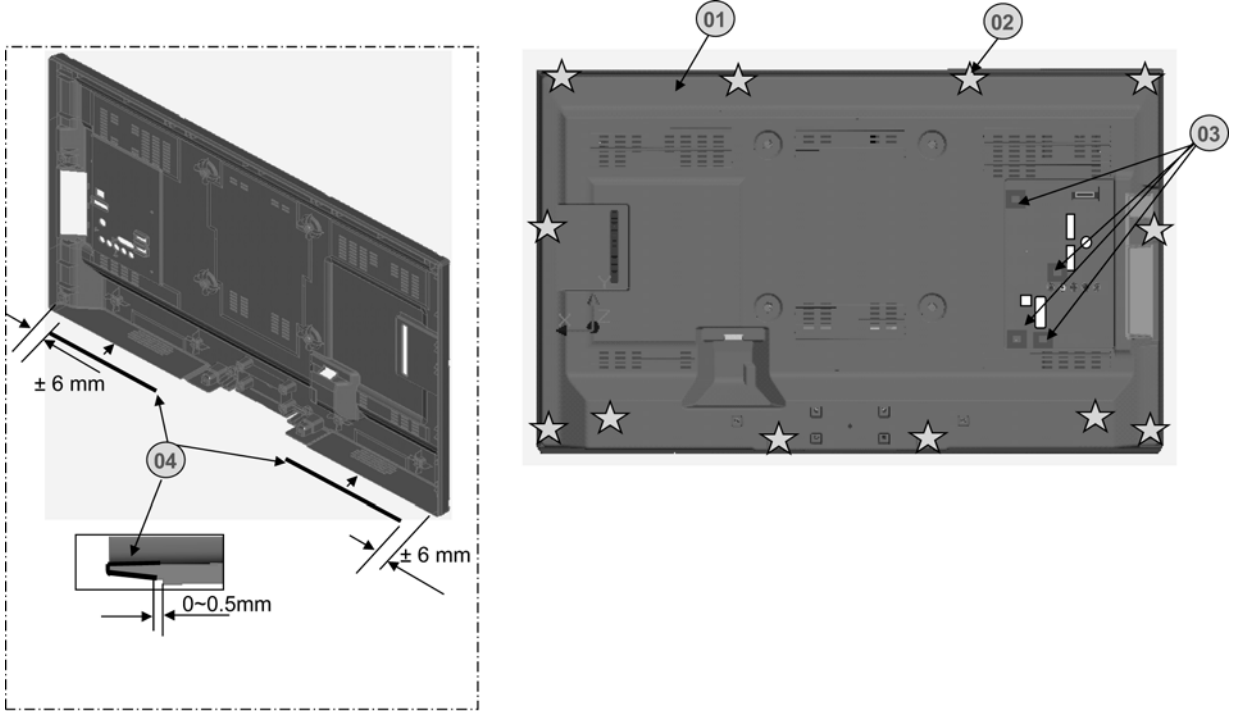
1. Fixing P-print to LCD panel.
2. Fix Spacer (P-pcb-4 pcs) & Key Btnto P-print.
3. Fixing chassis bracket A-pcb (2 pc) to A-print and fix to LCD panel.
4. Fixing Side AV Bracket to A-print.
5. Fix PET tape at K10~A10 wire (1 pc).
6. Fix metal bracket bottom.
7. Fix bottom cover.
8. Fix above part with screw.



No	Item	Description	Qty	UOM	Remarks
01	THEJ036J	SCREW	11	PC	60 ± 10 N·cm
02	TKZ5ZX50311	BOTTOM METAL	1	PC	
03	TBX5ZA01701	CONTROL BUTTON	1	PC	
04	TKP5ZA24703	SIDE AV BRACKET	1	PC	
05	TMX5ZE0021	CHASSIS BRACKET A-PCB	2	PC	
06	TKP5ZA24101	BOTTOM COVER	1	PC	
06	T4FP1505J	PET TAPE (GREY L=70 mm)	1	PC	

### 7.5. Back Cover Screw

1. Stick felt (L & R) at bottom side Back Cover.
2. Stick Sp. Sponge (L & R) at bottom side Back Cover.
3. Fix screw to Back Cover.



	Part No	Qty	Location	Torque
☆	THTD030J	12	Back Cover: 12	100±20 N·cm
□	XTV3+12JFJK	3	AV terminal: 3	60±10 N·cm

No	Item	Description	Qty	UOM	Remarks
01	TKU3FC00501	BACK COVER	1	PC	
02	THTD030J	SCREW	12	PC	100 ± 20 N·cm
03	XTV3+12JFJK	SCREW	4	PC	60 ± 10 N·cm
04	TMK4GA181	FELT	2	PC	
05	TMK4GG078	SPEAKER SPONGE	2	PC	

## 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

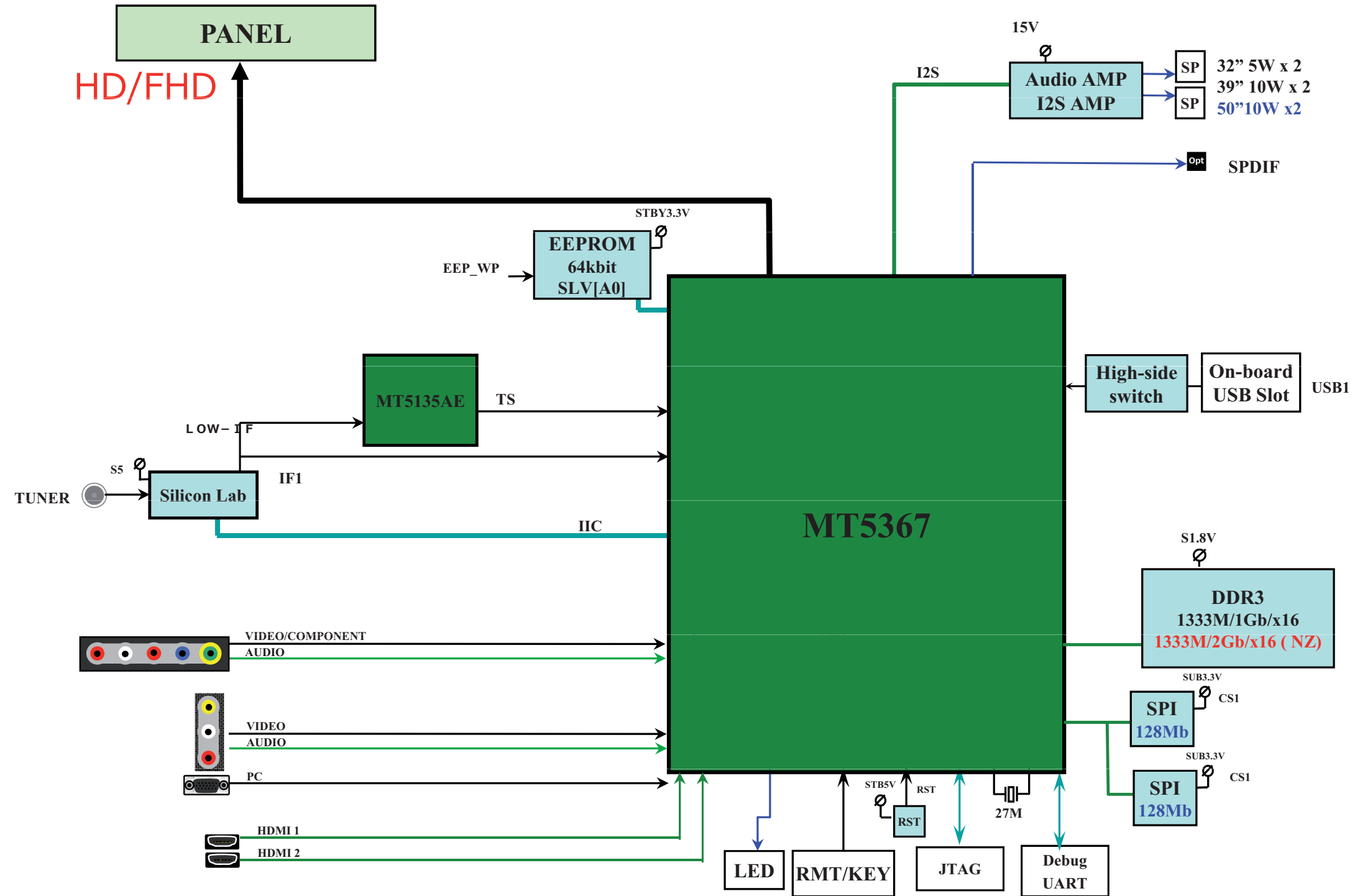
Set P-Board to a dummy set and check the satisfaction with the specified voltage as following table.

VOLTAGE	TEST POINT	Specification	
		Operate	STBY
5.3V	TP7507	5.3 ± 0.10 V	5.3 ± 0.10 V
16.4V	TP7508	16.4 ± 0.8 V	-
24V	TP7509	24V ± 12V	-

Note: GND REFERENCE TP7503 (COLD SIDE)

## 9 Block Diagram

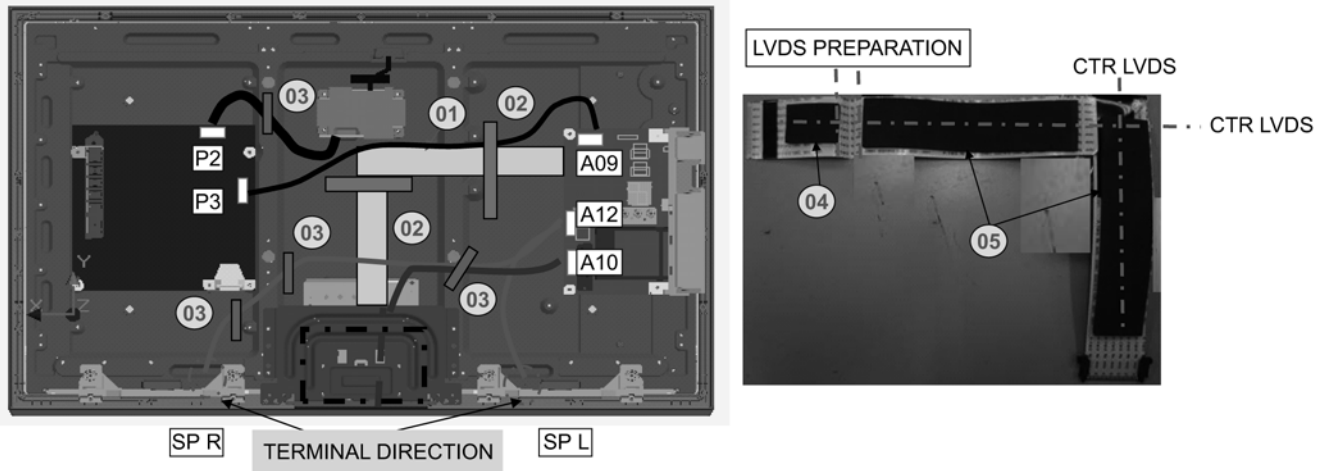
### 9.1. Main Block Diagram



# 10 Wiring Connection Diagram

## 10.1. Wire Dressing

1. Install LVDS CABLE and others wire.
2. Fix them by PET tape (4 pc + 2 pc).



ATTENTION: WIRES MAY NOT TO TOUCH ANY SHARP EDGES OF THE METAL PARTS

**Fig. A**

Board Connector

LVDS Connector

**< Caution Point >**

1. Need to do iron blow at LVDS connector and panel/board connector before insert LVDS. And make sure connector did not slanting.
2. Make sure LVDS touching must use Nylon Glove.

Glove

**Reference flexibles prepare intimately connected cables**

Open

Insert the hooks on both sides of the flexible cable

**NOTE:** Ensure that the cable is properly inserted.

Close the press for the connector plug at both ends using 2 hands.




**NOTE:** If you want to disconnect the flexible, open the gate of the connector and gently pull at the same time to remove.

No	Item	Description	Qty	UOM
01	TSCKF0070001	LVDS CABLE	1	PC
02	T4FP1505J	PET TAPE (GREY L=100mm)	2	PC
03	T4FP1505J	PET TAPE (GREY L=70mm)	4	PC
04	TMK4GG047	SPONGE (t=3mm × 20mm × 30mm)	1	PC
04	TMK4GG053	SPONGE (t=3mm × 25mm × 110mm)	2	PC

# 11 Schematic Diagram

## 11.1. Schematic Diagram Notes

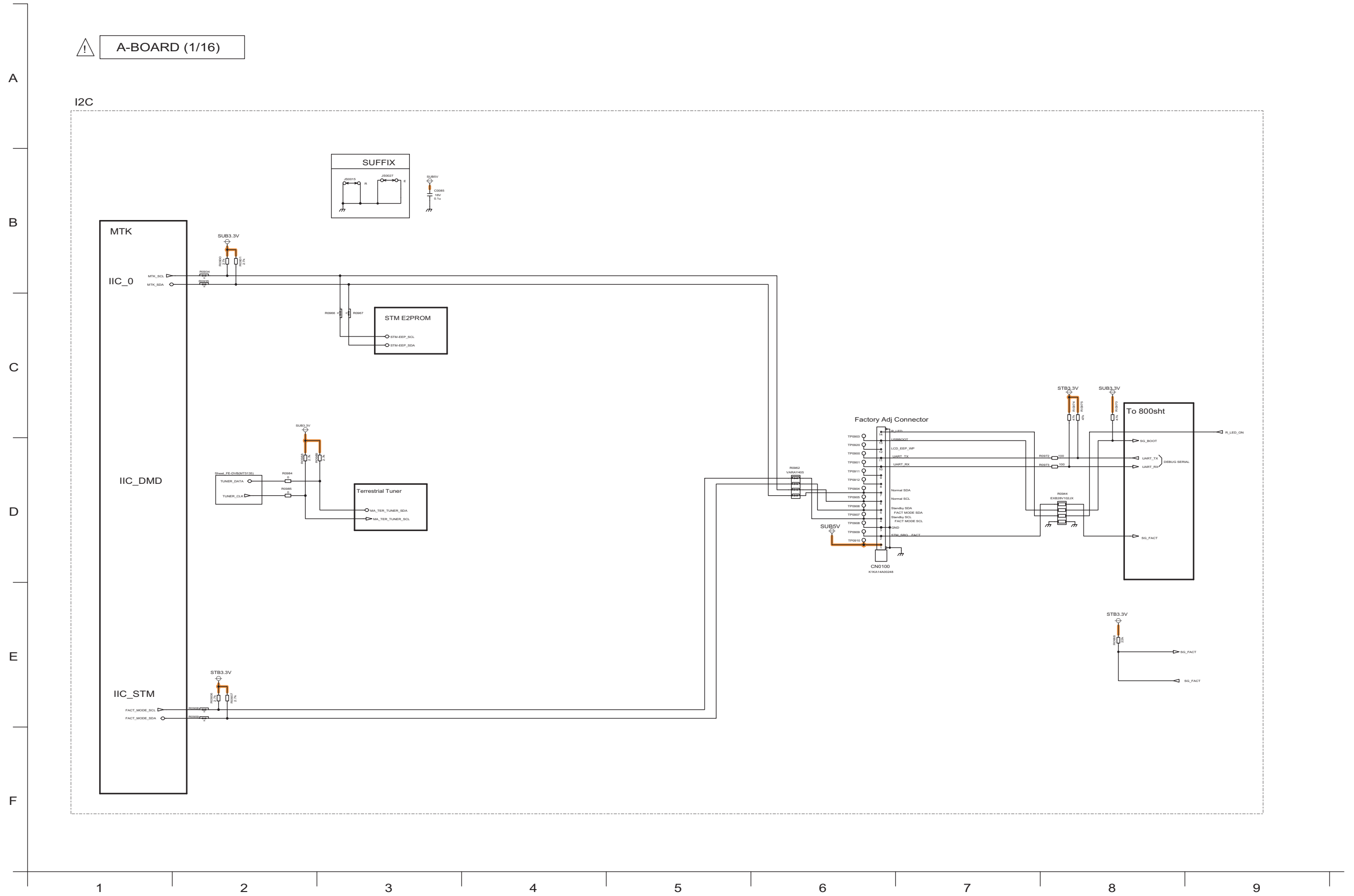
### Notes:

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 (1/16) Schematic Diagram

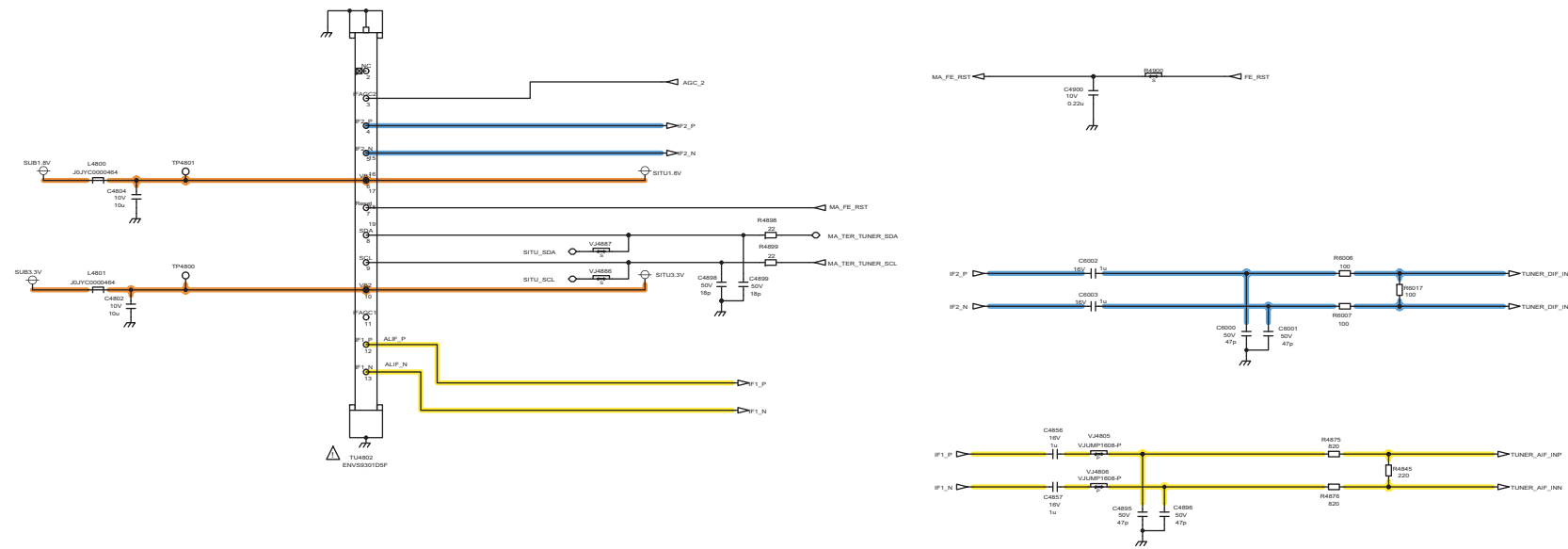


### 11.3. A-Board (2/16) Schematic Diagram

 A-BOARD (2/16)

## Main Tuner

REF No. 4800 - 4899



10 11 12 13 14 15 16 17 18

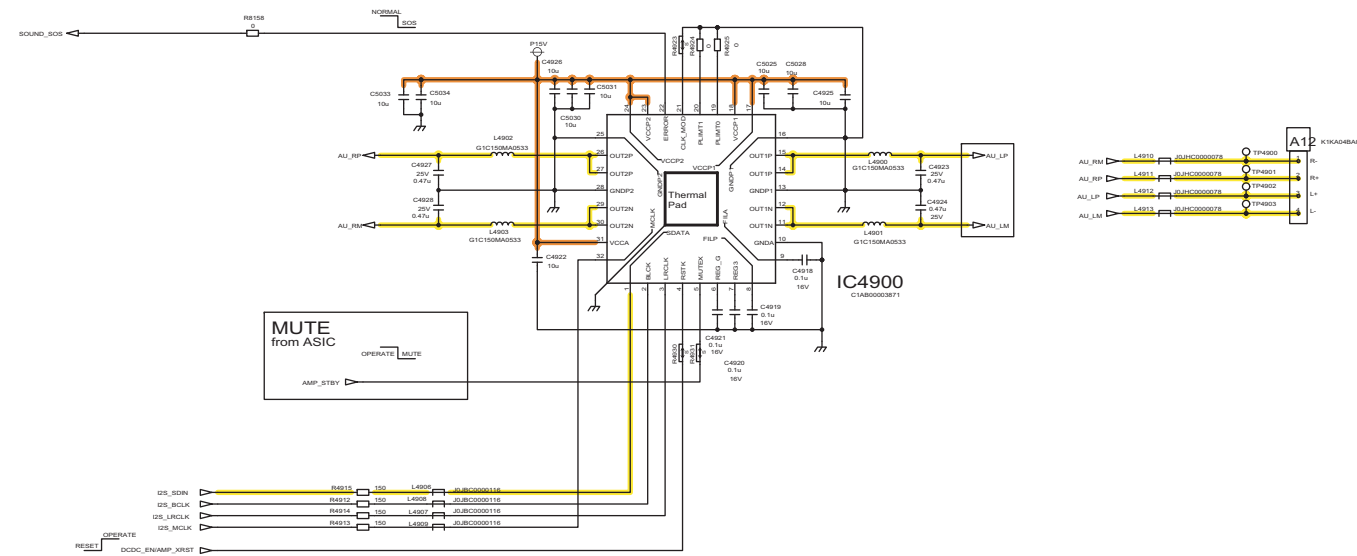


### 11.4. A-Board (3/16) Schematic Diagram

! A-BOARD (3/16)

## Audio-AMP

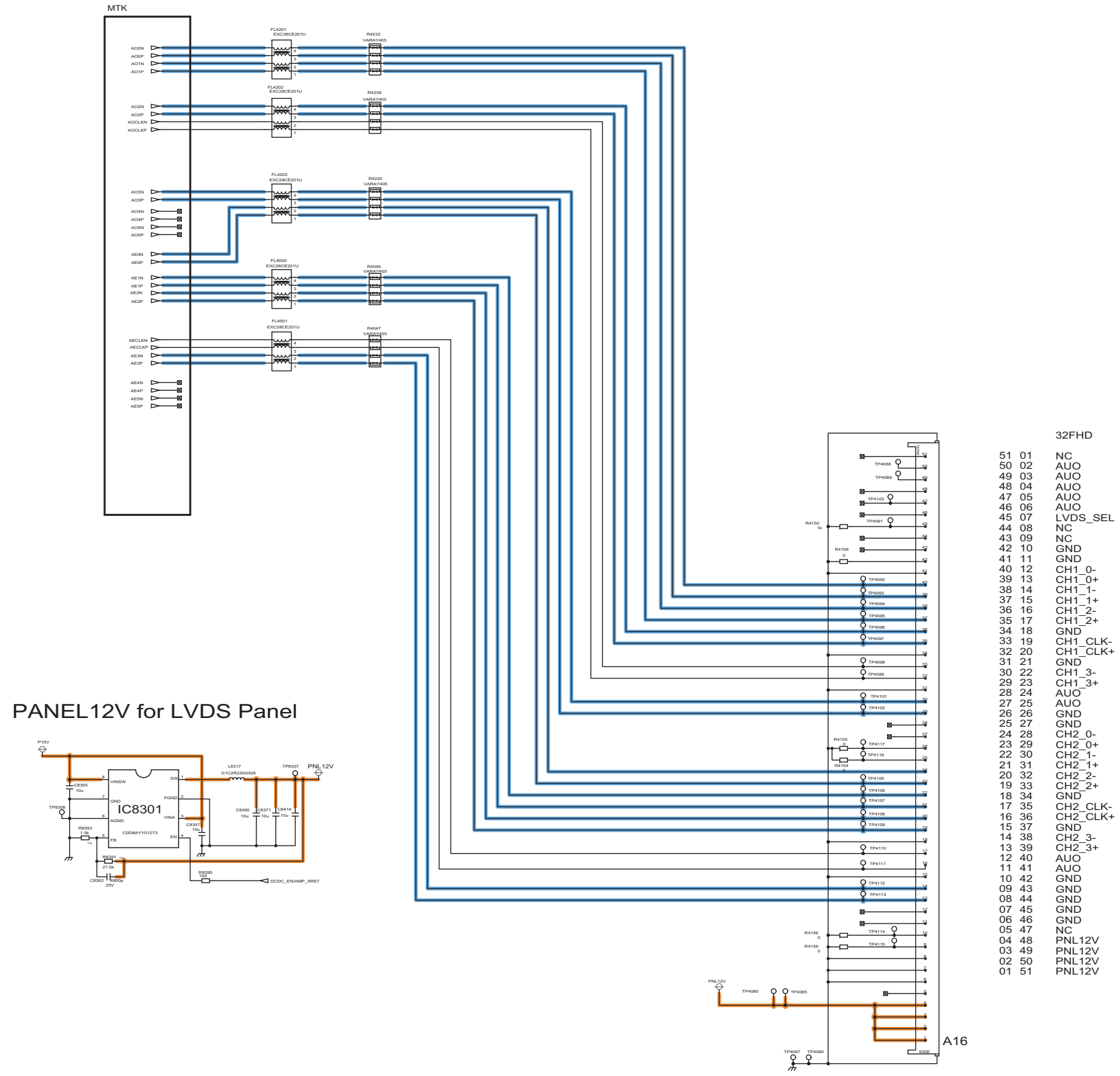
REF No. 4900 - 4969





### 11.6. A-Board (5/16) Schematic Diagram

 A-BOARD (5/16)



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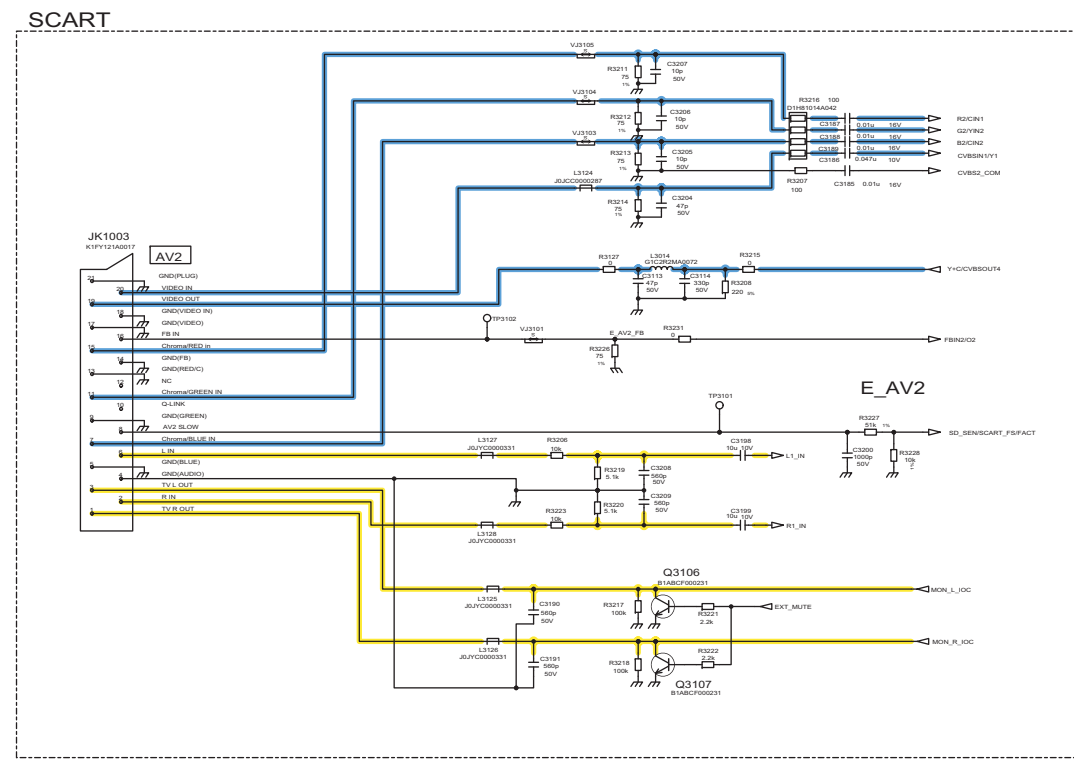
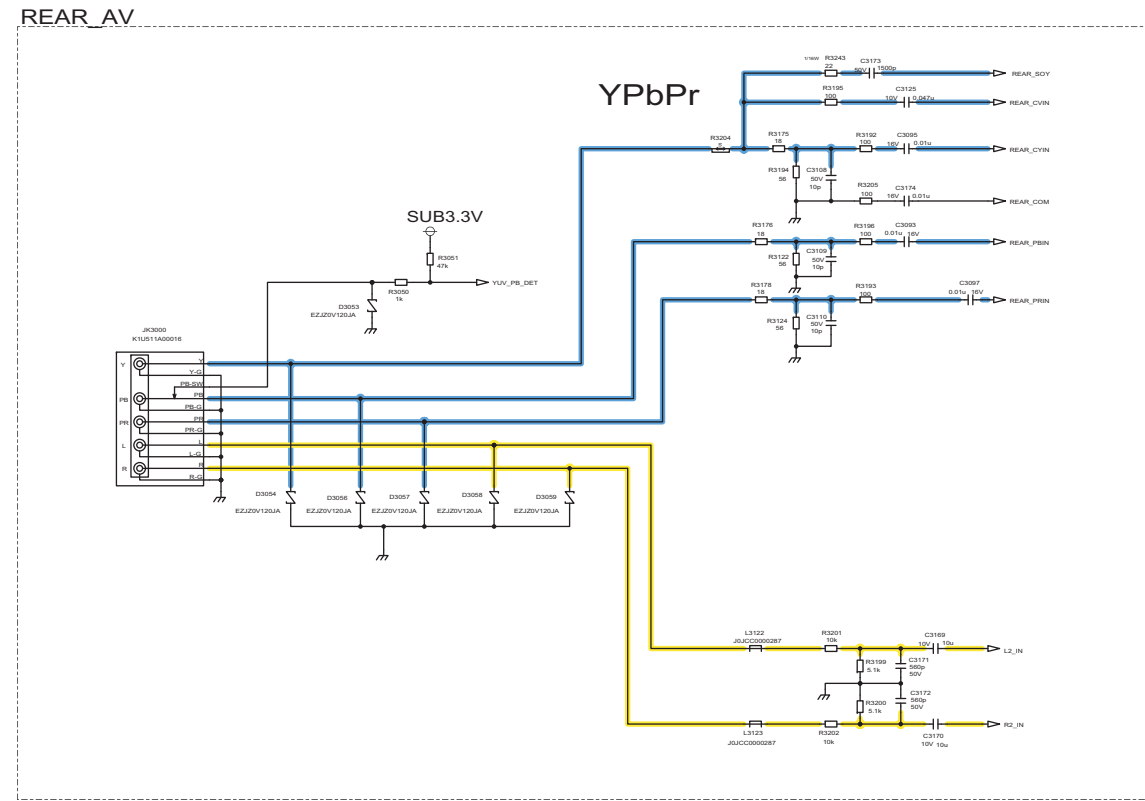
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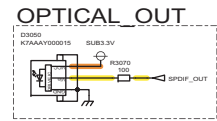
# 11.7. A-Board (6/16) Schematic Diagram

 A-BOARD (6/16)

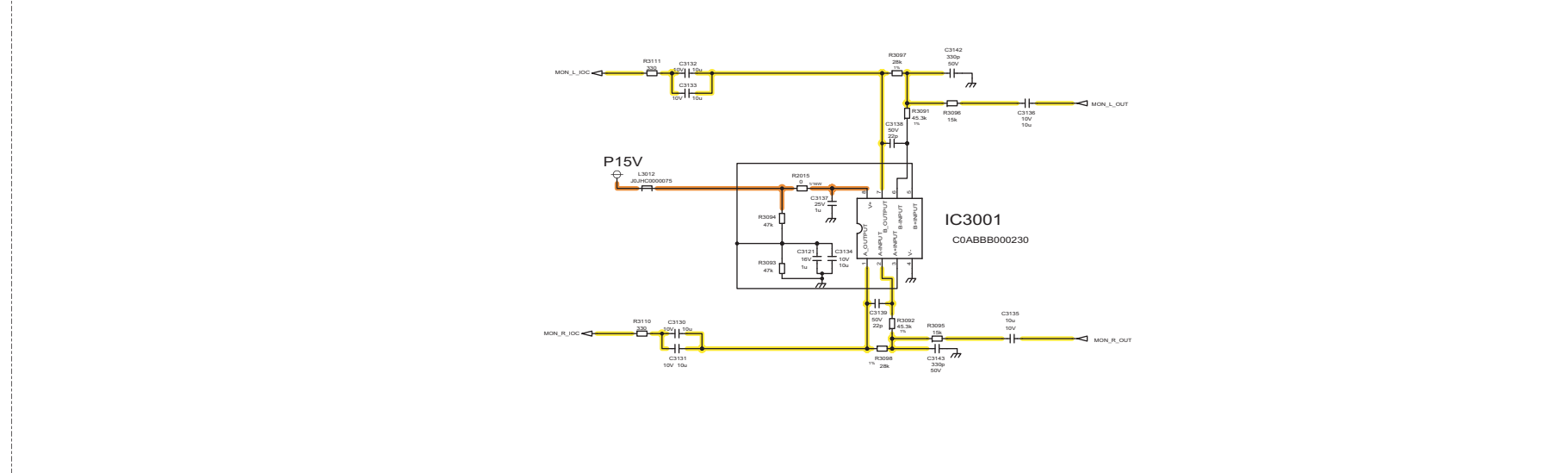


### 11.8. A-Board (7/16) Schematic Diagram

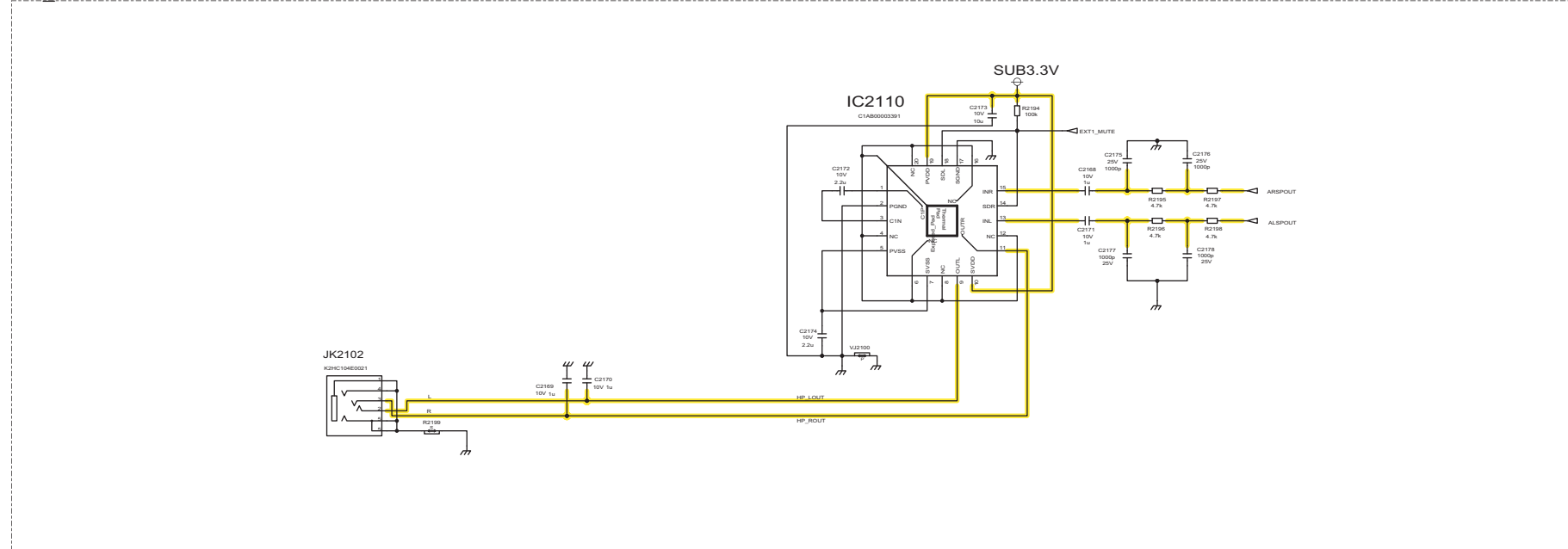
! A-BOARD (7/16)



AUDIO\_OUT

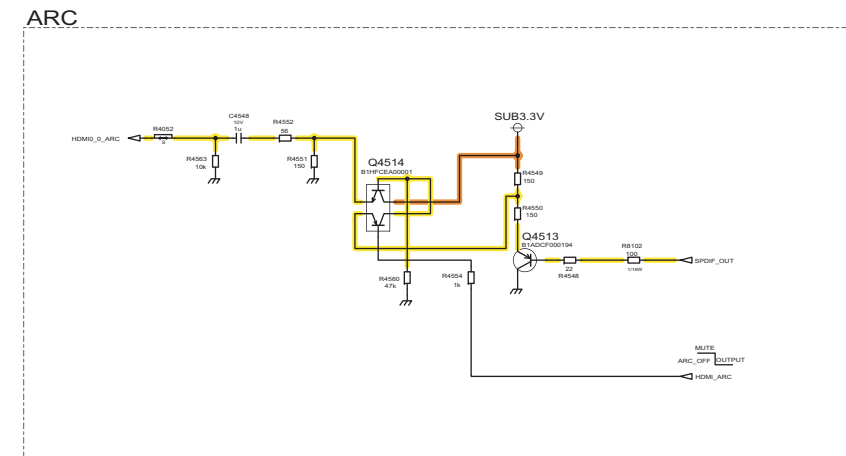
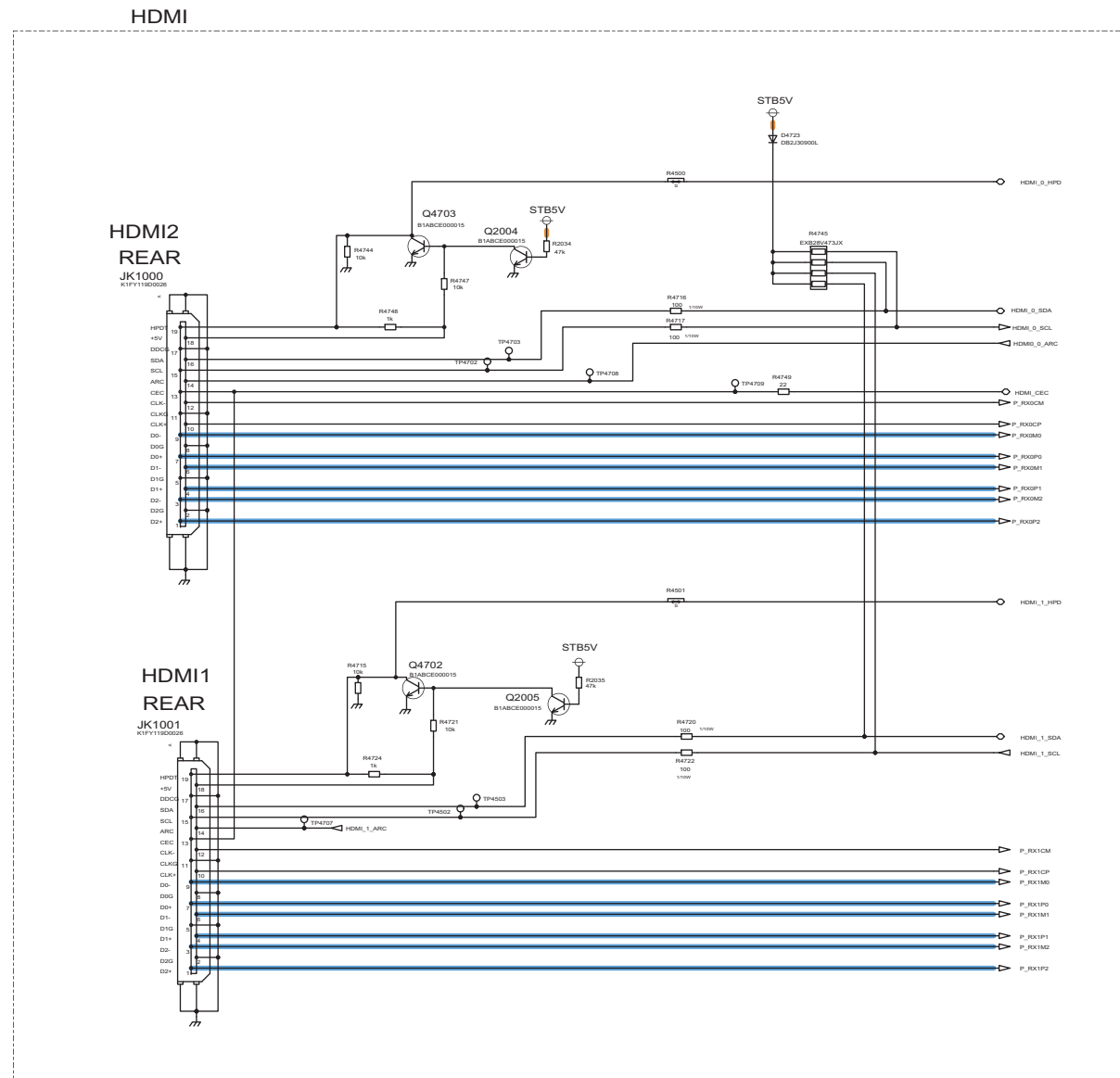


HP\_OUT



### 11.9. A-Board (8/16) Schematic Diagram

 A-BOARD (8/16)



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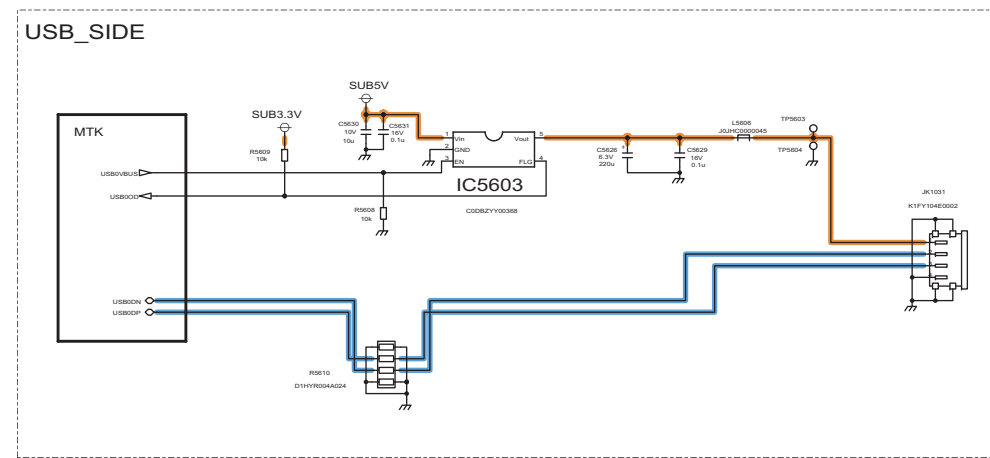
70

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### 11.10. A-Board (9/16) Schematic Diagram

! A-BOARD (9/16)

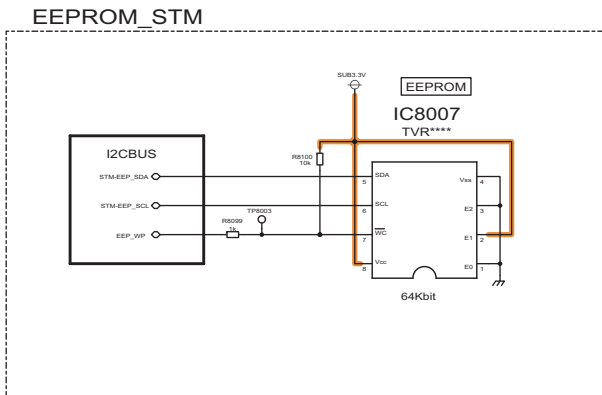
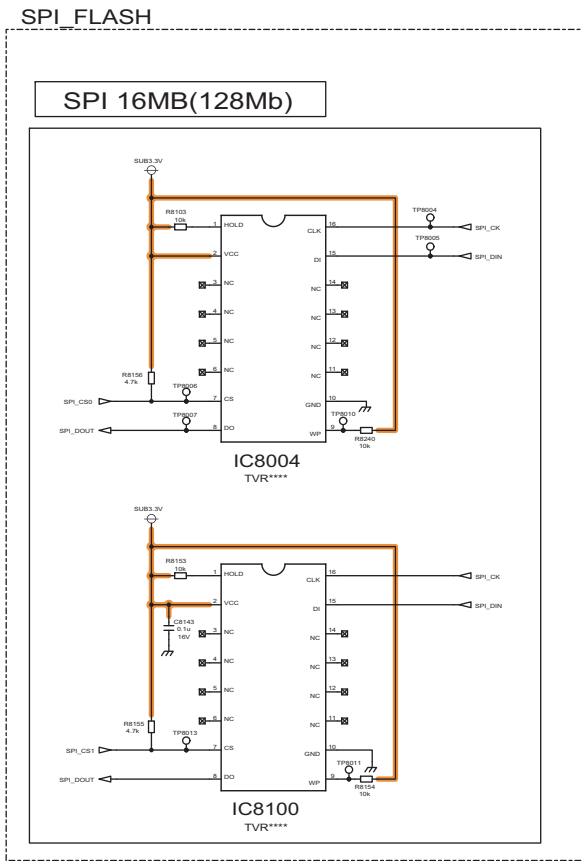






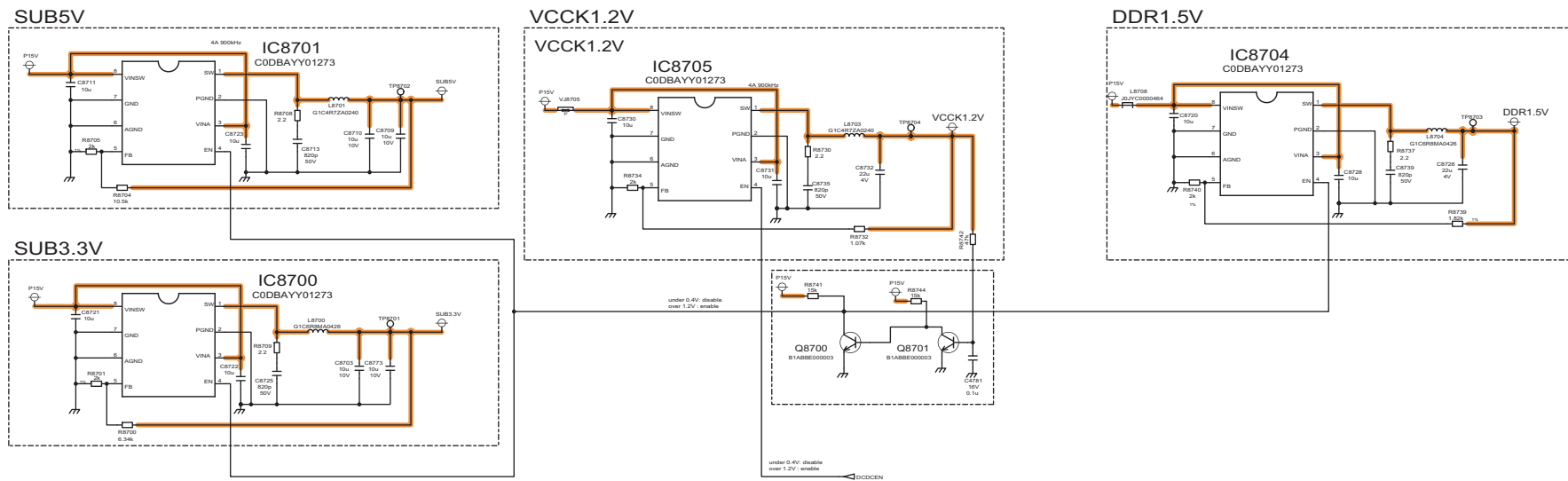
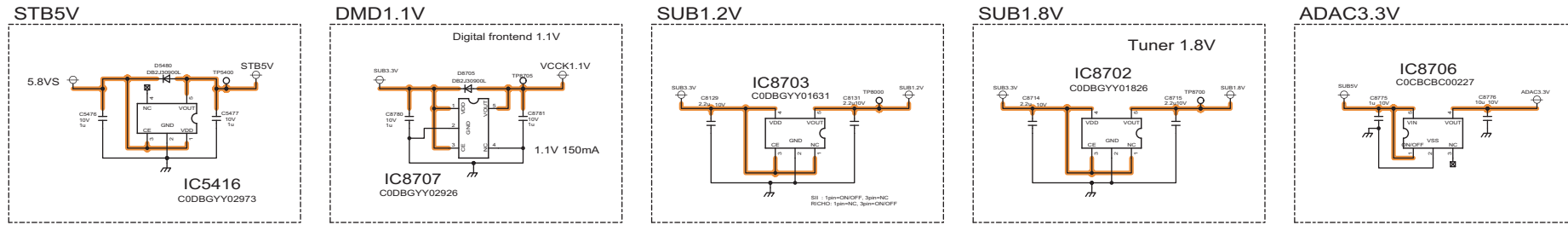
### 11.12. A-Board (11/16) Schematic Diagram

 A-BOARD (11/16)



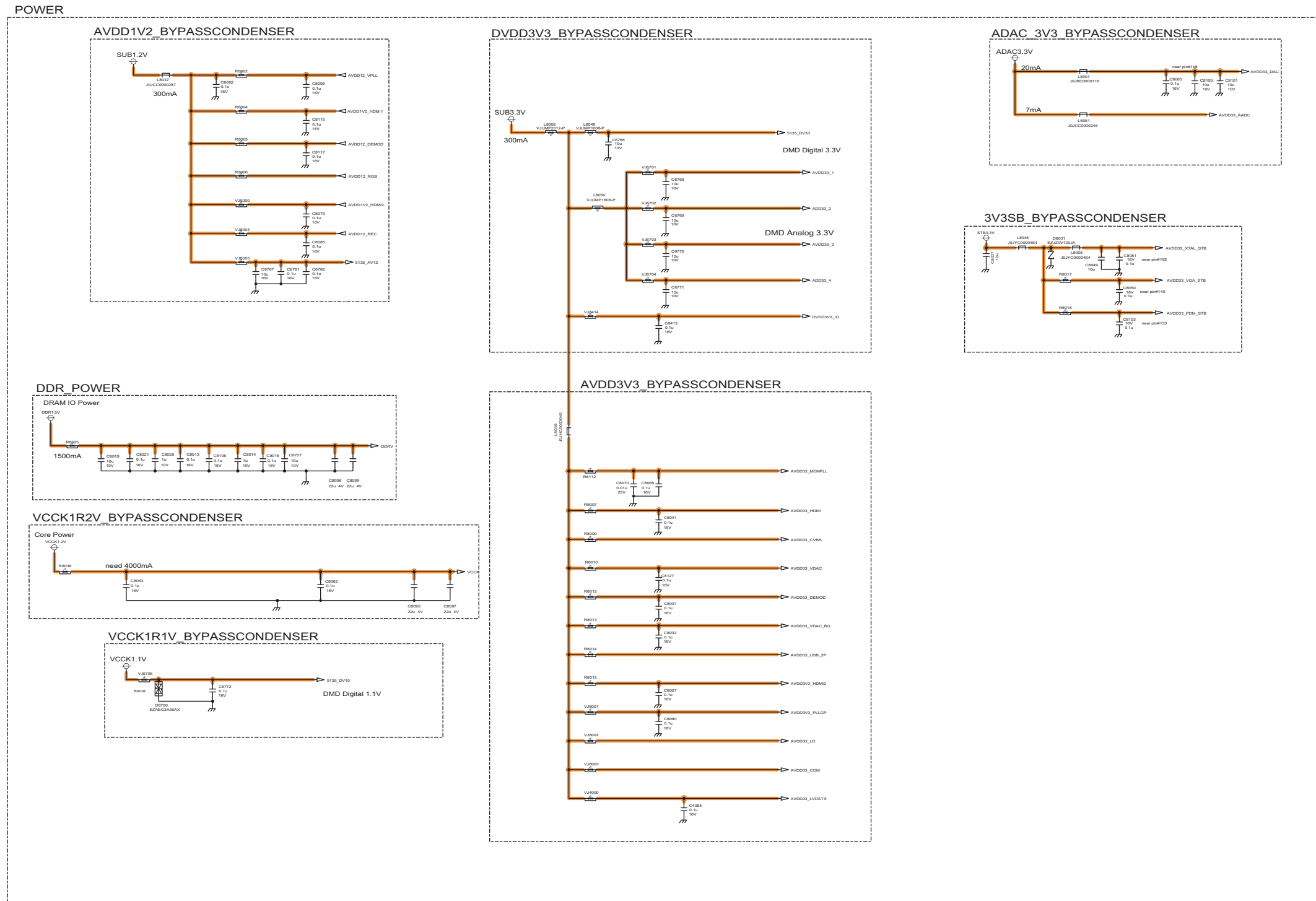
### 11.13. A-Board (12/16) Schematic Diagram

 A-BOARD (12/16)



# 11.14. A-Board (13/16) Schematic Diagram

 A-BOARD (13/16)



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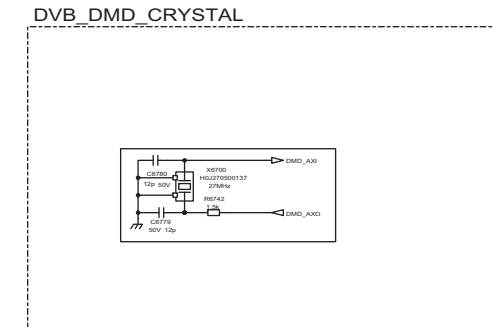
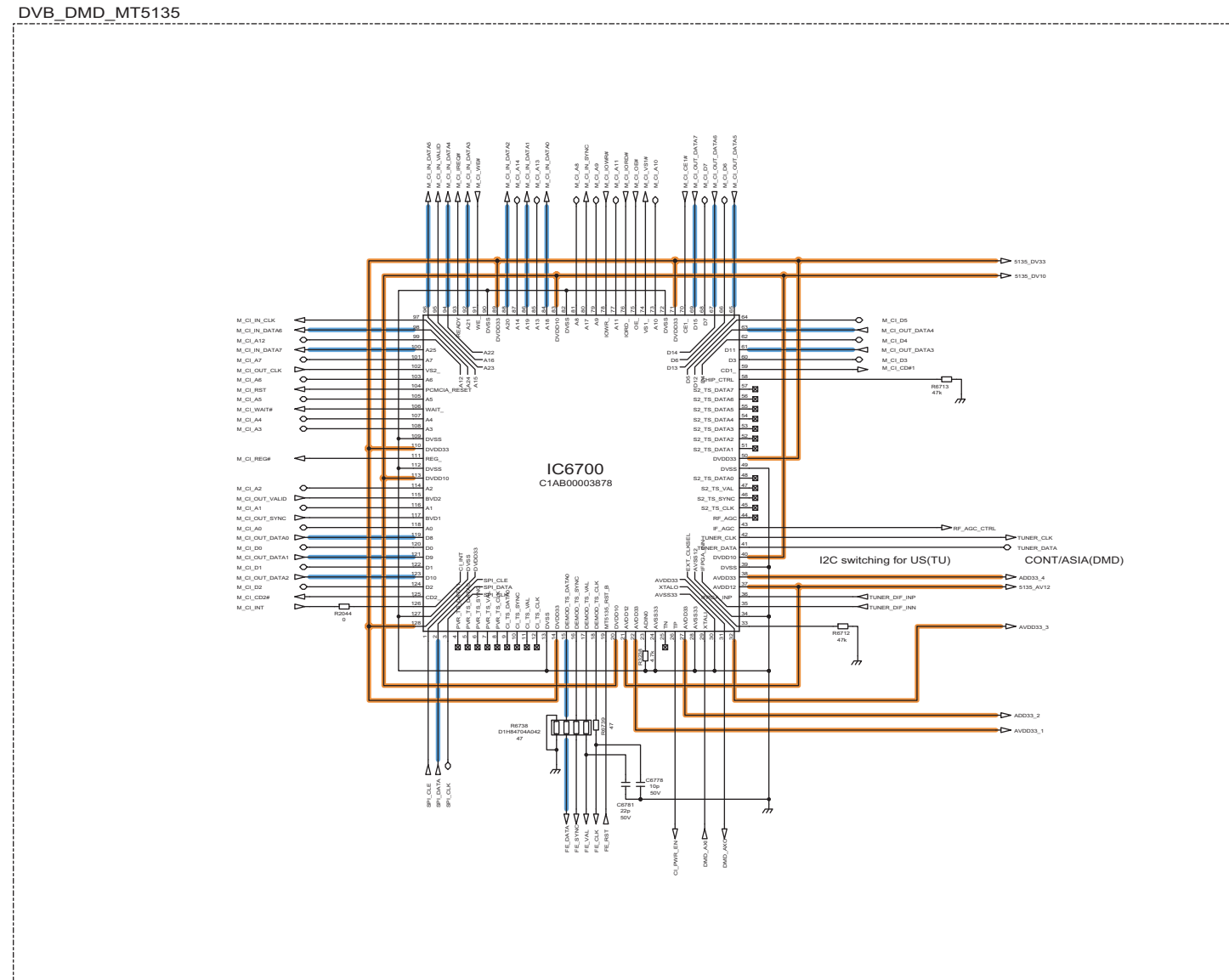
116

117



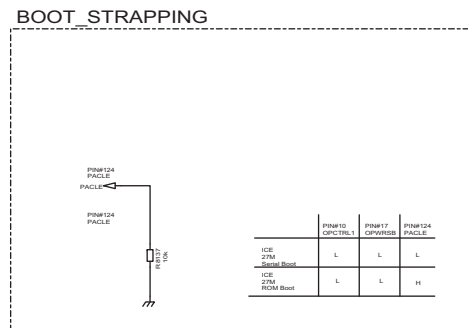
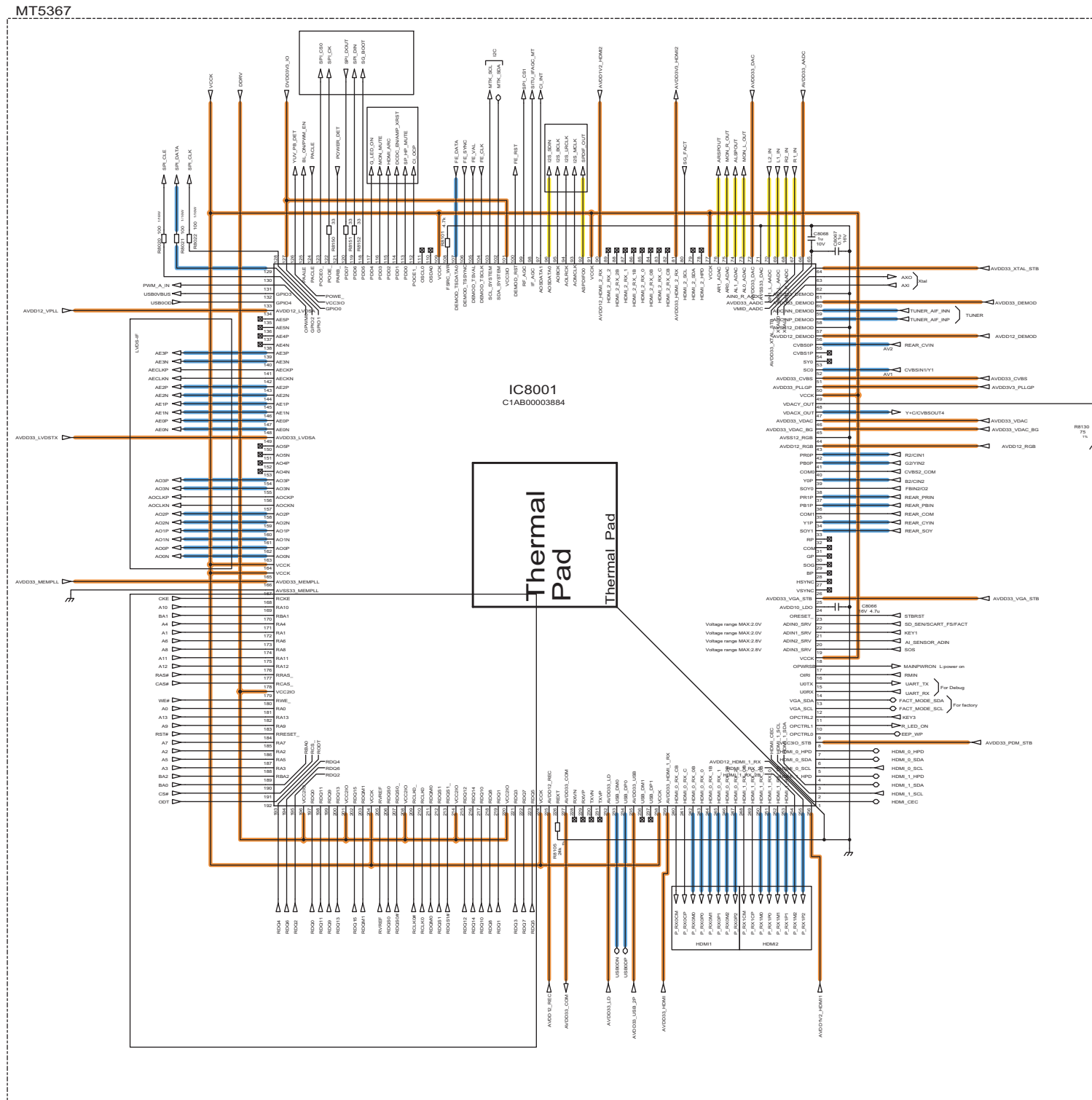
### 11.16. A-Board (15/16) Schematic Diagram

 A-BOARD (15/16)



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

 A-BOARD (16/16)



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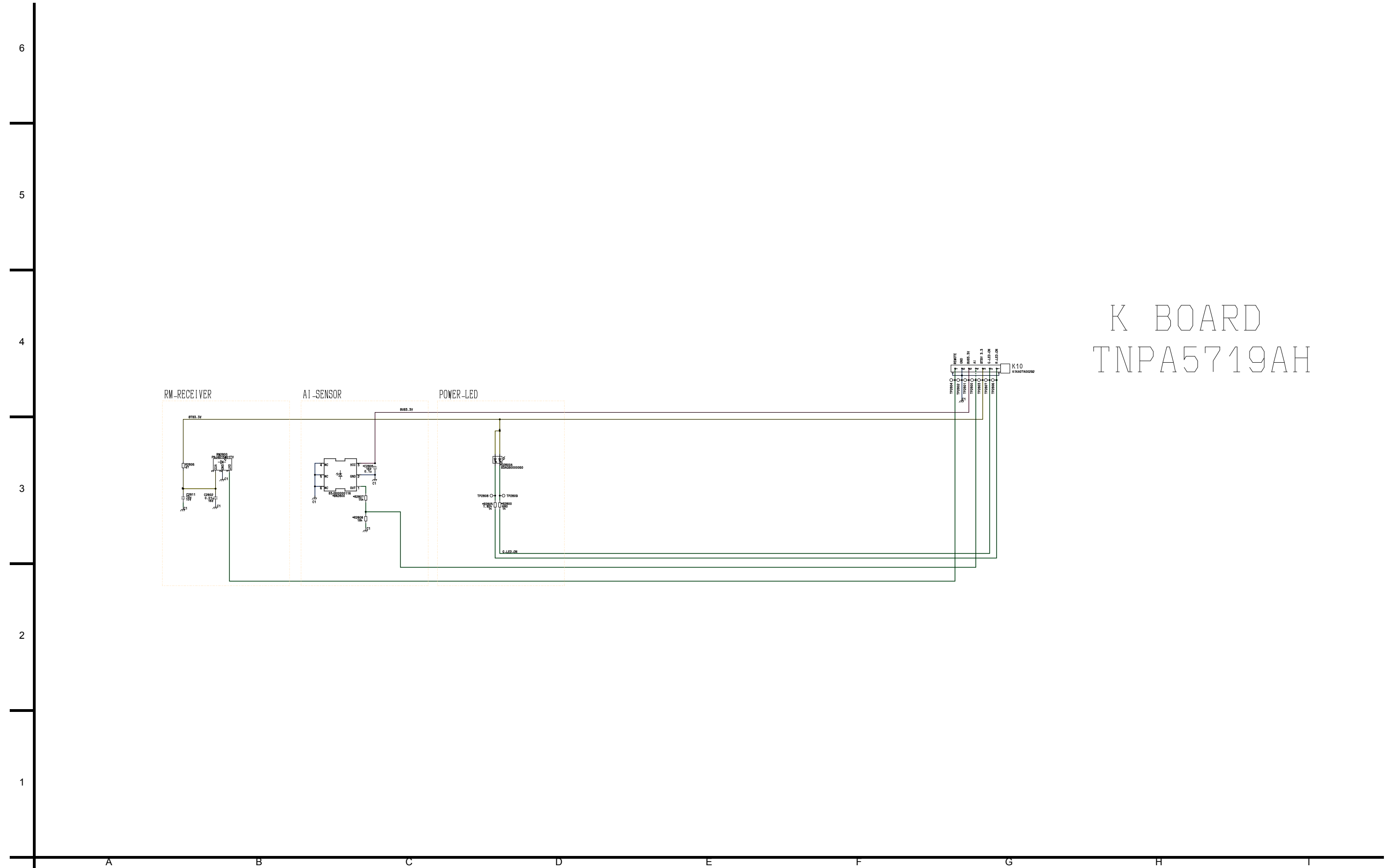
141

142

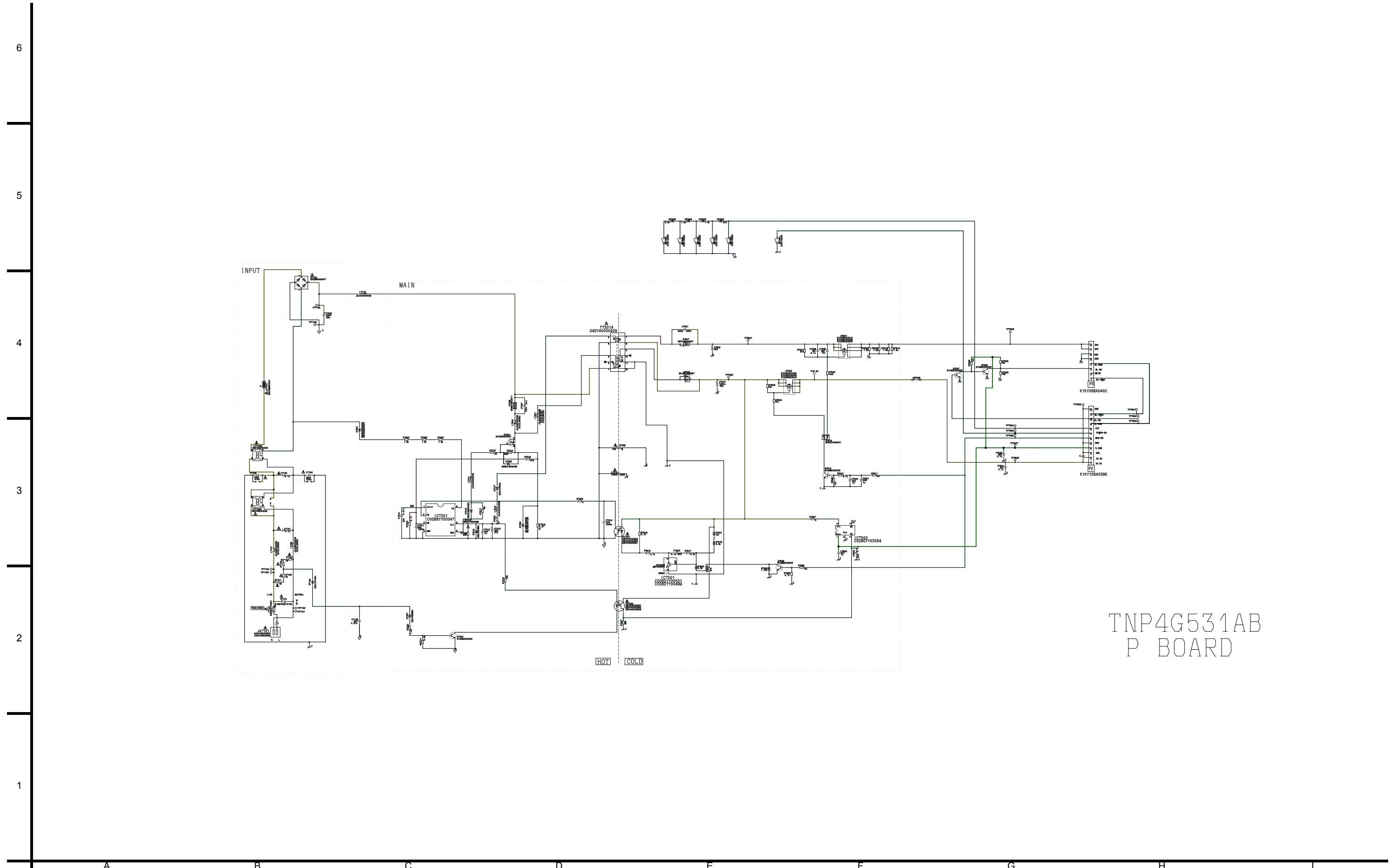
143

144

### 11.18. K-Board Schematic Diagram



### 11.19. P-Board Schematic Diagram

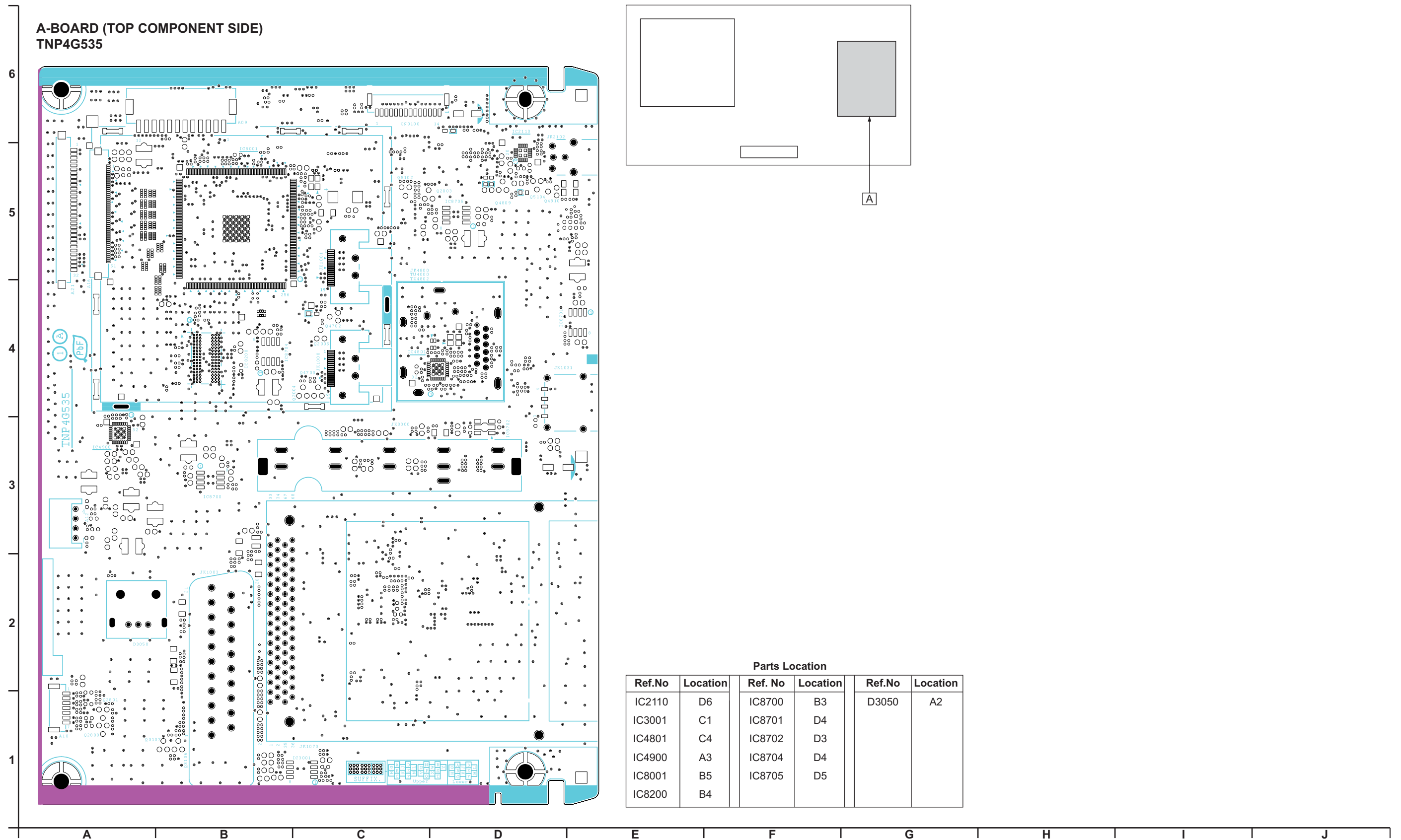


TNP4G531AB  
P BOARD

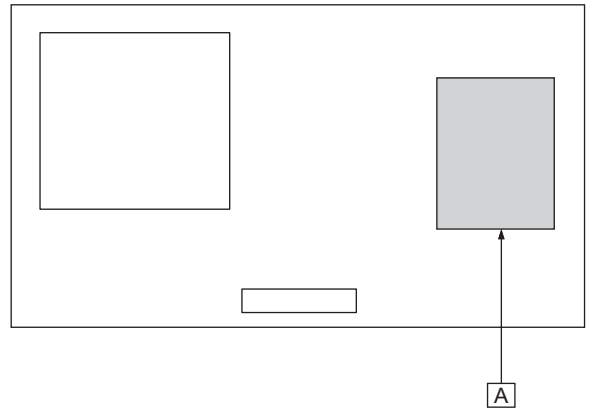
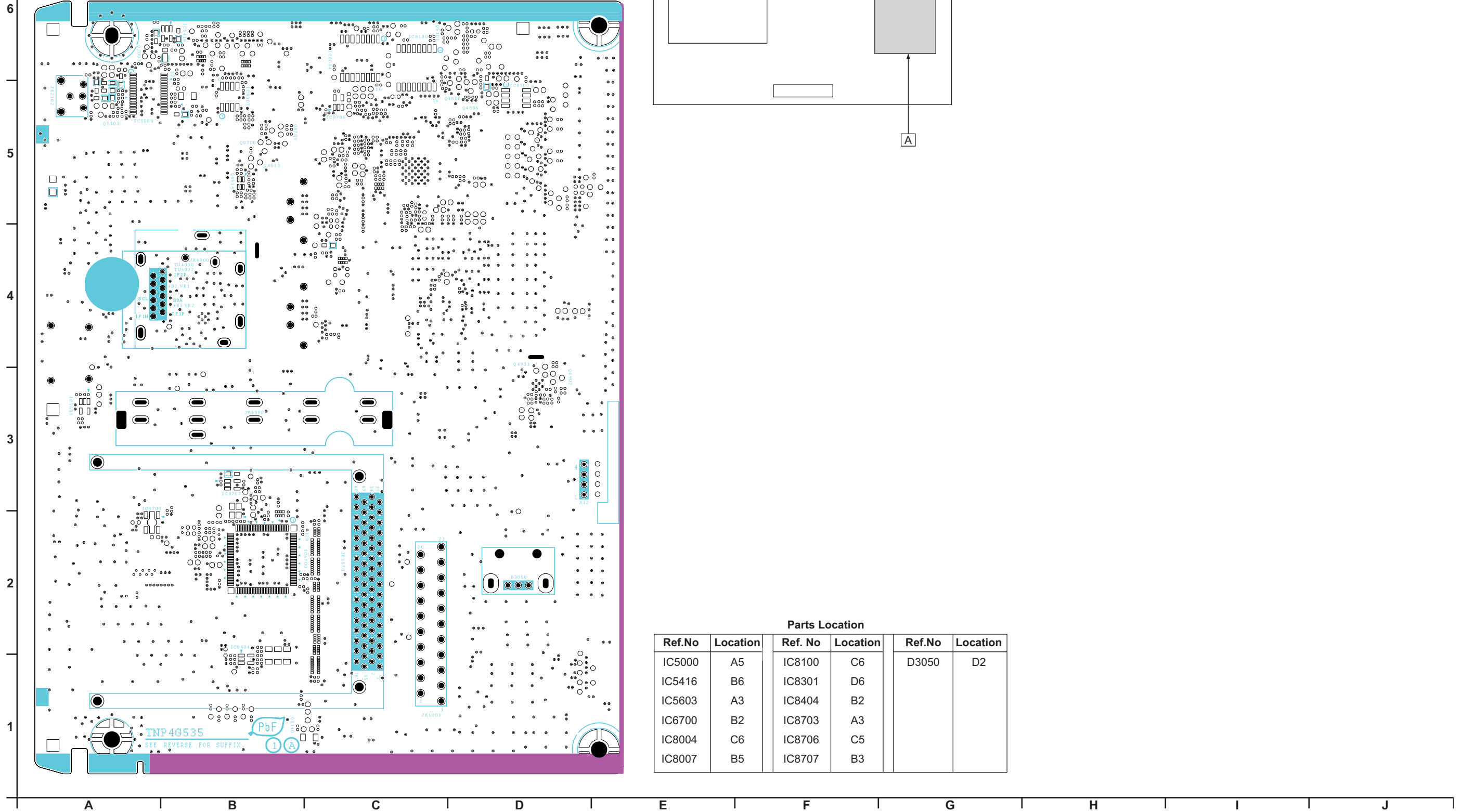


# 12 Printed Circuit Board

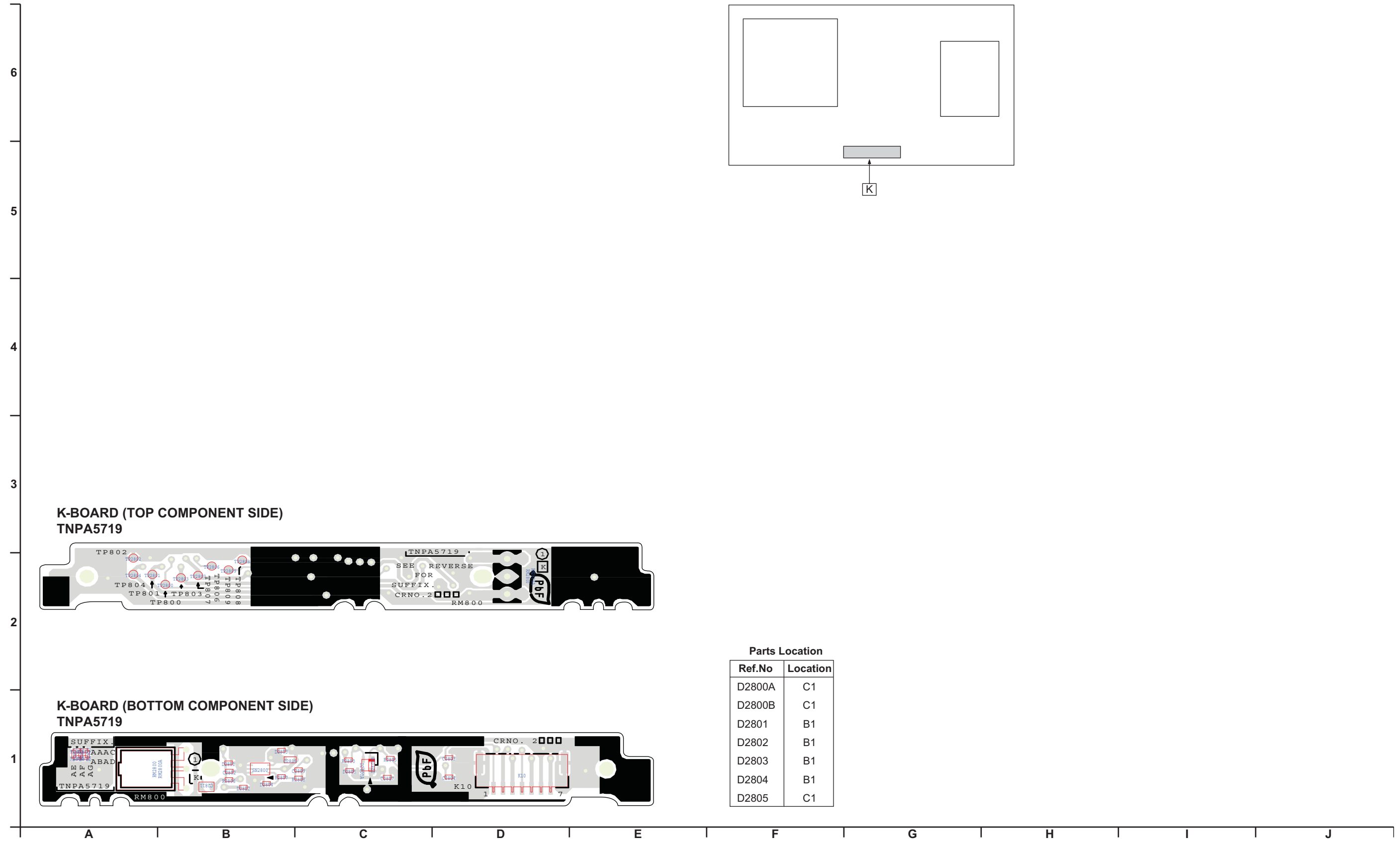
## 12.1. A-BOARD



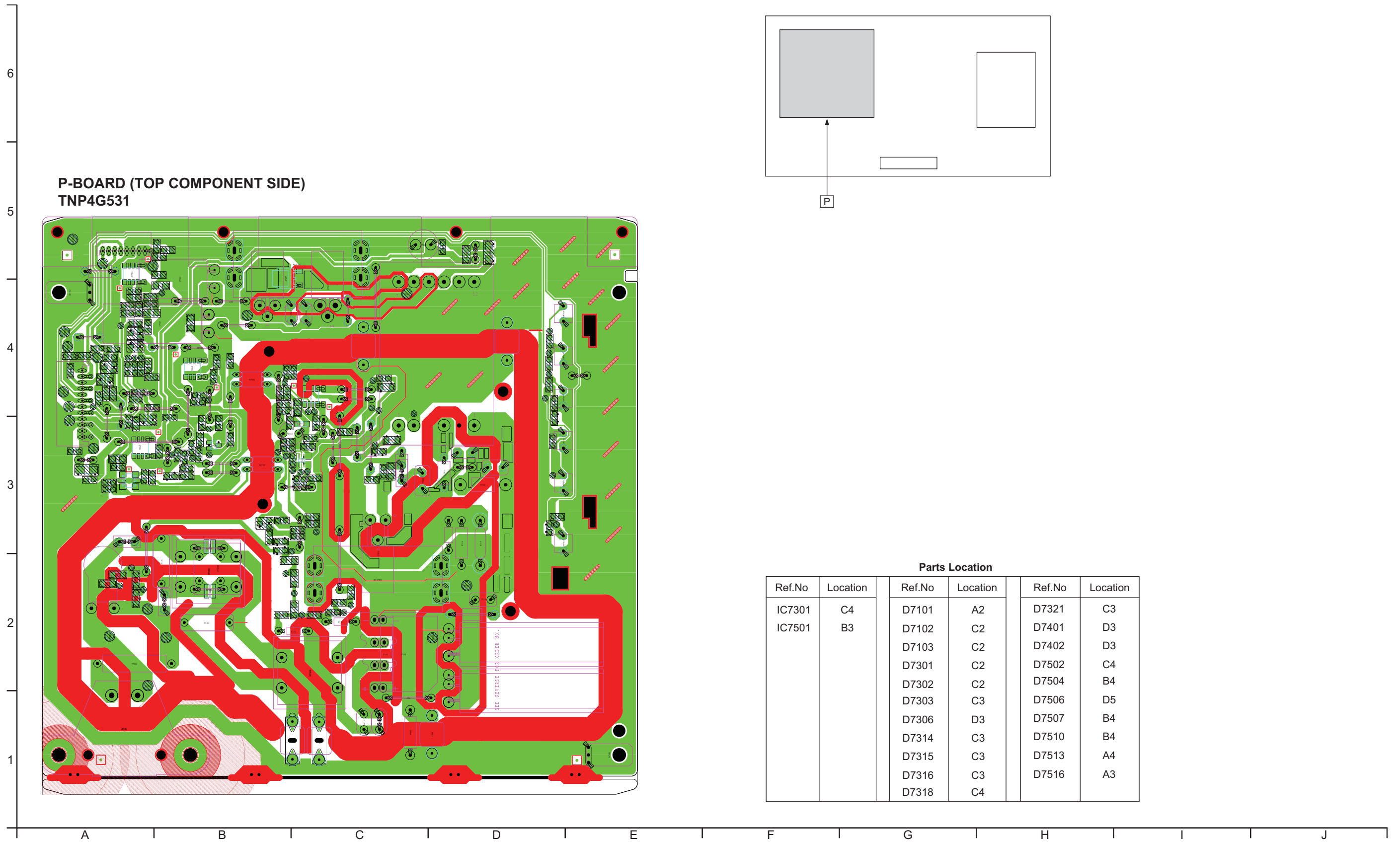
**A-BOARD (BOTTOM COMPONENT SIDE)  
TNP4G535**

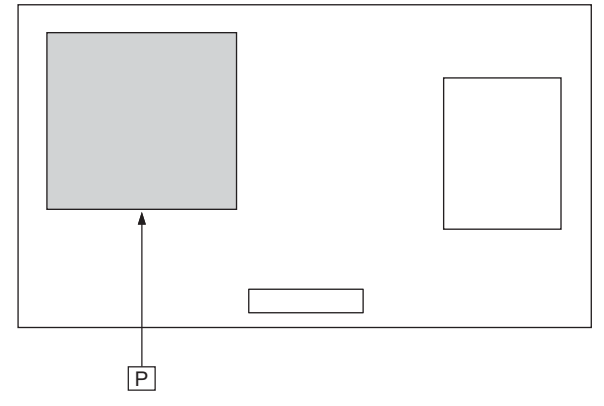
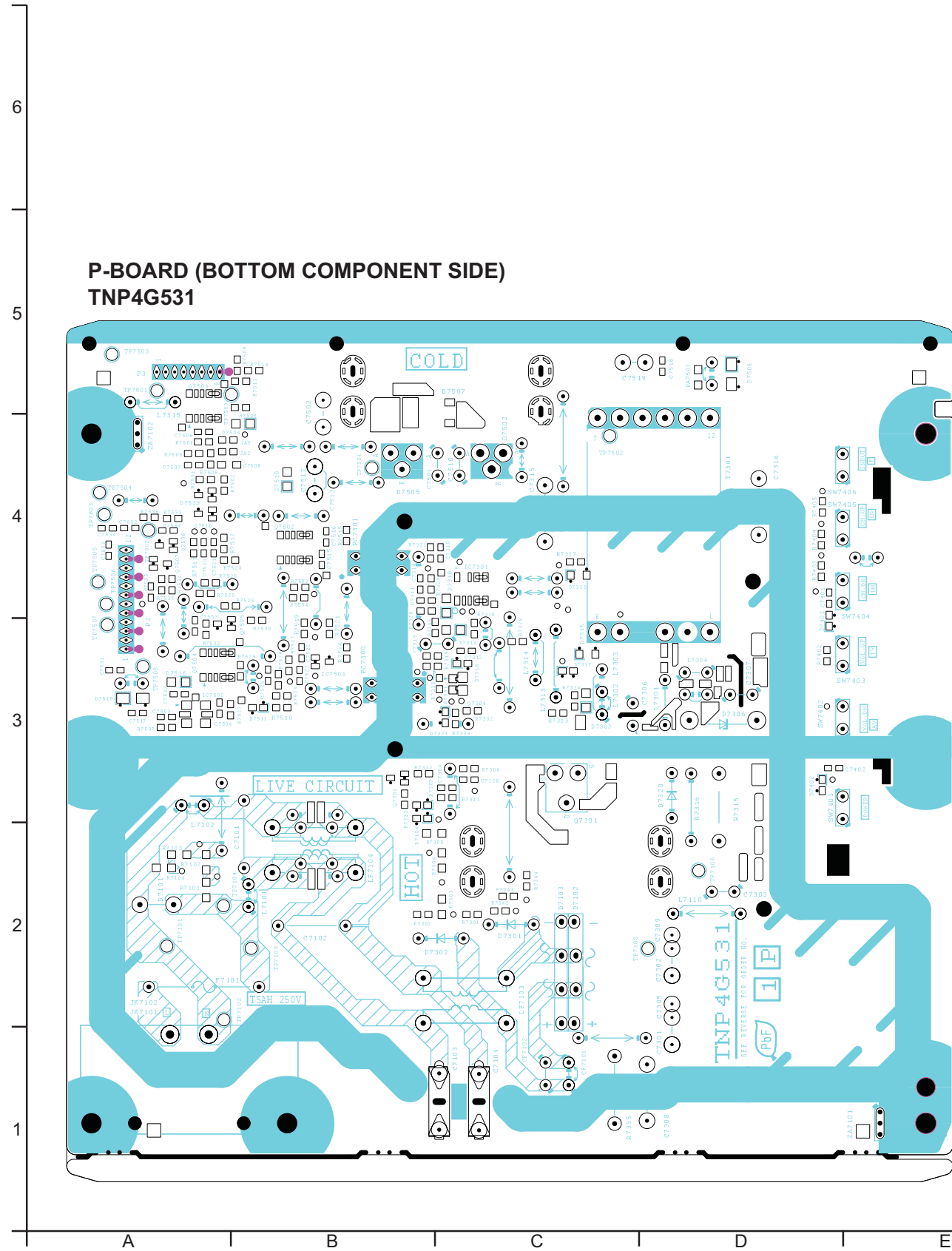


## 12.2. K-BOARD



### 12.3. P-BOARD





**Parts Location**

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7301	C4	D7101	A2	D7314	C3	D7505	B4
IC7501	B3	D7102	C2	D7316	C3	D7506	D5
IC7502	A3	D7103	C2	D7317	C3	D7507	C5
		D7104	B2	D7318	C4	D7510	B4
		D7301	C2	D7320	D3	D7511	B3
		D7302	B2	D7321	C3	D7513	A4
		D7303	C3	D7401	D3	D7516	A3
		D7306	D3	D7402	D3	D7518	A3
		D7307	B3	D7502	C4		
		D7313	C4	D7504	A4		



## 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		
C0085	F1G1C104A077	C 0.1UF	16V	
C2002	FLJ1H104A717	"C	0.1UF	
C2003	F1G1C104A077	C 0.1UF	16V	
C2004	FLJ1H104A717	"C	0.1UF	
C2008	FLJZZ1060001	"C	10UF	
C2009	F1G1C104A077	C 0.1UF	16V	
C2010	F1G1C1030008	C 0.01UF	16V	
C2018	FLJ1H104A717	"C	0.1UF	
C2105	FLK0J226A049	"C	22UF	
C2168	F1G1A105A047	C 1UF	10V	
C2169	F1G1A105A047	C 1UF	10V	
C2170	F1G1A105A047	C 1UF	10V	
C2171	F1G1A105A047	C 1UF	10V	
C2172	F1H1A225A051	"C	2.2UF	
C2173	FLJ1A106A110	"C	10UF	
C2174	F1H1A225A051	"C	2.2UF	
C2175	F1G1E102A123	C 1000pF	25V	
C2176	F1G1E102A123	C 1000pF	25V	
C2177	F1G1E102A123	C 1000pF	25V	
C2178	F1G1E102A123	C 1000pF	25V	
C2754	F1G1H1020008	C 1000PF	50V	
C2802	F1G1C1030008	C 0.01UF	16V	
C2805	F1H1C104A041	"C	0.1UF	
C2811	FLJ1A106A087	"C	10UF	
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	
C3113	F1G1H470A834	"C	47PF	
C3114	F1G1H331A830	"C	330PF	
C3121	F1H1C105A145	C 1 uF	16 V	
C3125	F1G1A473A079	C 0.047UF	10V	
C3130	FLJ1A106A087	"C	10UF	
C3131	FLJ1A106A087	"C	10UF	
C3132	FLJ1A106A087	"C	10UF	
C3133	FLJ1A106A087	"C	10UF	
C3134	FLJ1A106A087	"C	10UF	
C3135	FLJ1A106A087	"C	10UF	
C3136	FLJ1A106A087	"C	10UF	
C3137	FLJ1E105A287	"C	1UF	
C3138	F1G1H220A834	"C	22PF	
C3139	F1G1H220A834	"C	22PF	
C3142	F1G1H331A830	"C	330PF	
C3143	F1G1H331A830	"C	330PF	
C3169	FLJ1A106A110	"C	10UF	
C3170	FLJ1A106A110	"C	10UF	
C3171	F1G1H561A830	C 560 pF	50 V	
C3172	F1G1H561A830	C 560 pF	50 V	
C3173	F1G1H152A830	"C	1500PF	
C3174	F1G1C1030008	C 0.01UF	16V	
C3185	F1G1C1030008	C 0.01UF	16V	
C3186	F1G1A473A069	"C0.047UF		
C3187	F1G1C1030008	C 0.01UF	16V	
C3188	F1G1C1030008	C 0.01UF	16V	
C3189	F1G1C1030008	C 0.01UF	16V	
C3190	F1G1H561A830	C 560 pF	50 V	
C3191	F1G1H561A830	C 560 pF	50 V	
C3198	FLJ1A106A110	"C	10UF	
C3199	FLJ1A106A110	"C	10UF	
C3200	F1G1H1020008	C 1000PF	50V	
C3204	F1G1H470A834	"C	47PF	
C3205	F1G1H100A833	C 10PF	50V	
C3206	F1G1H100A833	C 10PF	50V	
C3207	F1G1H100A833	C 10PF	50V	
	C3208	F1G1H561A830	C 560 pF 50 V	
	C3209	F1G1H561A830	C 560 pF 50 V	
	C4085	F1G1C104A077	C 0.1UF 16V	
	C4548	F1G1A105A047	C 1UF 10V	
	C4781	F1G1C104A077	C 0.1UF 16V	
	C4802	FLJ1A106A087	"C 10UF	
	C4804	FLJ1A106A087	"C 10UF	
	C4856	F1H1C105A145	C 1 uF 16 V	
	C4857	F1H1C105A145	C 1 uF 16 V	
	C4895	F1G1H470A834	"C 47PF	
	C4896	F1G1H470A834	"C 47PF	
	C4898	F1G1H180A834	"C 18PF	
	C4899	F1G1H180A834	"C 18PF	
	C4900	F1G1A224A080	C 0.22UF 10V	
	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	FLJZZ1060001	"C 10UF	
	C4923	FLJ1E474A272	"C 0.47UF	
	C4924	FLJ1E474A272	"C 0.47UF	
	C4925	FLJZZ1060001	"C 10UF	
	C4926	FLJZZ1060001	"C 10UF	
	C4927	FLJ1E474A272	"C 0.47UF	
	C4928	FLJ1E474A272	"C 0.47UF	
	C5004	F1G1A105A047	C 1UF 10V	
	C5006	FLJ1E105A287	"C 1UF	
	C5011	F1G1C104A077	C 0.1UF 16V	
	C5020	F1H1A474A107	"C 0.47UF	
	C5021	F1G1A105A047	C 1UF 10V	
	C5022	F1G1A105A047	C 1UF 10V	
	C5025	FLJZZ1060001	"C 10UF	
	C5026	F1H1C105A145	C 1 uF 16 V	
	C5028	FLJZZ1060001	"C 10UF	
	C5030	FLJZZ1060001	"C 10UF	
	C5031	FLJZZ1060001	"C 10UF	
	C5033	FLJZZ1060001	"C 10UF	
	C5034	FLJZZ1060001	"C 10UF	
	C5171	F1G1C1030008	C 0.01UF 16V	
	C5476	F1G1A105A047	C 1UF 10V	
	C5477	F1G1A105A047	C 1UF 10V	
	C5626	EEHBOJ221UP	"E 220UF	
	C5629	F1G1C104A077	C 0.1UF 16V	
	C5630	FLJ1A106A087	"C 10UF	
	C5631	F1G1C104A077	C 0.1UF 16V	
	C6000	F1G1H470A834	"C 47PF	
	C6001	F1G1H470A834	"C 47PF	
	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	
	C6766	FLJ1A106A087	"C 10UF	
	C6767	FLJ1A106A087	"C 10UF	
	C6768	FLJ1A106A087	"C 10UF	
	C6769	FLJ1A106A087	"C 10UF	
	C6770	FLJ1A106A087	"C 10UF	
	C6771	FLJ1A106A087	"C 10UF	
	C6772	F1G1C104A077	C 0.1UF 16V	
	C6776	F1G1H100A833	C 10PF 50V	
	C6777	F1G1H100A833	C 10PF 50V	
	C6778	F1G1H100A833	C 10PF 50V	
	C6779	F1G1H120A834	"C 12PF	
	C6780	F1G1H120A834	"C 12PF	
	C6781	F1G1H220A834	"C 22PF	
⚠	C7101	F0CAF104A105	C 0.1UF 240V	
⚠	C7102	F0CAF104A105	C 0.1UF 240V	
⚠	C7103	F1A2E471A003	"C 470PF	
⚠	C7104	F1A2E471A003	"C 470PF	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7128	F1J1H103A900	"C 0.01UF	
	C7302	F2A2W6800010	"C 68UF	
	C7307	F1B3D101A099	C 100PF 2kV	
	C7310	F1J1H103A900	"C 0.01UF	
	C7311	F1J1H102A721	"C 1000pF	
	C7312	F1J1H105A945	C 1UF 50V	
	C7313	F2A1V470B660	C 47UF 35V	
	C7314	F1J1H102A721	"C 1000pF	
	C7315	F1A2E102A004	"E 1000PF	
	C7401	F1J1H102A721	"C 1000pF	
	C7402	F1J1H104A902	"C 0.1UF	
	C7501	F1B2H221A058	C 220PF 500V	
	C7502	EEUFR1V102PY	C 1000UF 35V	
	C7503	F1J1H104A902	"C 0.1UF	
	C7505	F1J1H105A945	C 1UF 50V	
	C7506	F1J1C475A225	"C 4.7UF	
	C7508	F1K1E106A134	"C 10UF	
	C7513	F2A1V102B662	C 1000UF 35V	
	C7520	F1J1E105A287	"C 1UF	
	C7521	F1J1E105A287	"C 1UF	
	C7523	F1J1H104A902	"C 0.1UF	
	C7531	F1J1H104A902	"C 0.1UF	
	C7532	F1J1H104A902	"C 0.1UF	
	C8002	F1G1C104A077	C 0.1UF 16V	
	C8006	F1G1C104A077	C 0.1UF 16V	
	C8007	F1JZZ1060001	"C 10UF	
	C8013	F1G1C104A077	C 0.1UF 16V	
	C8014	F1G1A105A047	C 1UF 10V	
	C8016	F1G1C104A077	C 0.1UF 16V	
	C8019	F1J1A106A087	"C 10UF	
	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	
	C8049	F1JZZ1060001	"C 10UF	
	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	
	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	
	C8101	F1J1A106A087	"C 10UF	
	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	
	C8131	F1H1A225A051	"C 2.2UF	
	C8140	F1G1H6R00009	"C 6.0PF	
	C8142	F1G1H5R0A947	C 10PF 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	
	C8229	F1G1C104A077	C 0.1UF 16V	
	C8230	F1G1C104A077	C 0.1UF 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	C8357	F1JZZ1060001	"C 10UF	
	C8360	F1JZZ1060001	"C 10UF	
	C8362	F1G1E682A059	C 6800PF 25V	
	C8371	F1JZZ1060001	"C 10UF	
	C8401	F1G1C104A077	C 0.1UF 16V	
	C8402	F1K0J226A049	"C 22UF	
	C8403	F1K0J226A049	"C 22UF	
	C8406	F1G1C104A077	C 0.1UF 16V	
	C8407	F1G1C104A077	C 0.1UF 16V	
	C8409	F1G1C104A077	C 0.1UF 16V	
	C8410	F1G1C104A077	C 0.1UF 16V	
	C8413	F1G1C104A077	C 0.1UF 16V	
	C8414	F1JZZ1060001	"C 10UF	
	C8703	F1J1A106A087	"C 10UF	
	C8709	F1J1A106A087	"C 10UF	
	C8710	F1J1A106A087	"C 10UF	
	C8711	F1JZZ1060001	"C 10UF	
	C8713	F1G1H821A830	C 820 pF 50 V	
	C8714	F1H1A225A051	"C 2.2UF	
	C8715	F1H1A225A051	"C 2.2UF	
	C8720	F1JZZ1060001	"C 10UF	
	C8721	F1JZZ1060001	"C 10UF	
	C8722	F1JZZ1060001	"C 10UF	
	C8723	F1JZZ1060001	"C 10UF	
	C8725	F1G1H821A830	C 820 pF 50 V	
	C8726	F1J0G2260001	C 22 UF 4 V	
	C8727	F1J1A106A087	"C 10UF	
	C8728	F1JZZ1060001	"C 10UF	
	C8730	F1JZZ1060001	"C 10UF	
	C8731	F1JZZ1060001	"C 10UF	
	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	
	C8775	F1G1A105A047	C 1UF 10V	
	C8776	F1J1A106A087	"C 10UF	
	C8780	F1G1A105A047	C 1UF 10V	
	C8781	F1G1A105A047	C 1UF 10V	
			DIODES	
	D2001	EZJZ0V120JA	VARISTOR	
	D2005	EZJZ0V120JA	VARISTOR	
	D3050	K7AAAY000015	DIODE	
	D3053	EZJZ0V120JA	VARISTOR	
	D3054	EZJZ0V120JA	VARISTOR	
	D3056	EZJZ0V120JA	VARISTOR	
	D3057	EZJZ0V120JA	VARISTOR	
	D3058	EZJZ0V120JA	VARISTOR	
	D3059	EZJZ0V120JA	VARISTOR	
	D4703	B0JCME000076	DIODE	
	D4723	DB2J30900L	DIODE	
	D4803	B0JCDE000006	DIODE	
	D5005	DA2J10100L	DIODE	
	D5172	DZ2J180M0L	DIODE	
	D5173	DA2J10100L	DIODE	
	D5180	DZ2J033M0L	DIODE	
	D5480	DB2J30900L	DIODE	
	D6700	EZAEG2A50AX	FILTER	
	D7101	D4EAY621A134	DIODE	
	D7103	B0EBNR000047	DIODE	
	D7104	DA2J10100L	DIODE	
	D7301	B0HAGQ000001	DIODE	
	D7303	B0BC01500025	DIODE	
	D7306	B0BB140A0011	DIODE	
	D7307	DZ2J068M0L	DIODE	
	D7313	B0ECKM000053	DIODE	
	D7314	B0BC018A0495	ZENER DIODE	
	D7316	DZ2J300M0L	DIODE	
	D7317	DA2JF2300L	DIODE	



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7320	B0JAME000126	DIODE	
	D7401	DZ2J068M0L	DIODE	
	D7402	DZ2J068M0L	DIODE	
	D7502	B0JBLSL000057	DIODE	
	D7507	B0FCAM000001	DIODE	
	D7513	B0ADCK000001	DIODE	
	D8001	EZJZ0V120JA	VARISTOR	
	D8705	DE2J30900L	DIODE	
		INTEGRATED CIRCUITS		
	IC2110	C1AB00003391	IC	
	IC3001	C0ABBB000230	IC	
	IC4900	C1AB00003871	IC	
	IC5000	AN34043A-VF	IC	
	IC5416	C0DBGYY02973	IC	
	IC5603	C0DBZYY00368	IC	
	IC6700	C1AB00003878	IC	
	IC7301	C0DBBY000047	IC	
	IC7501	C0DBZYY00531	IC	
	IC7502	C0DBGYY03054	IC	
	IC8001	C1AB00003884	IC	
	IC8004	TVR4G244-AF	ROM IC (C3FBQY000054)	
	IC8007	C3EBJY000048	IC	
	IC8100	C3FBQY000054	IC	
	IC8200	C3ABUY000033	IC	
	IC8301	C0DBAYY01273	IC	
	IC8404	C0DBZYY00382	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	
	L3012	J0JHC0000075	BEAD COIL	
	L3014	G1C2R2MA0072	COIL	
	L3122	J0JCC0000287	COIL	
	L3123	J0JCC0000287	COIL	
	L3124	J0JCC0000287	COIL	
	L3125	J0JYC0000331	BEAD CORE	
	L3126	J0JYC0000331	BEAD CORE	
	L3127	J0JYC0000331	BEAD CORE	
	L3128	J0JYC0000331	BEAD CORE	
	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	
	L5606	J0JHC0000045	COIL	
	L7101	J0JKB0000034	EMI FILTER	
	L7102	J0JKB0000034	EMI FILTER	
	L7110	J0JKA0000043	BEADS CORE	
	L7301	J0JKA0000038	BEAD CORE	
	L7304	J0JKB0000034	EMI FILTER	
	L7313	J0JKA0000043	BEADS CORE	
	L7314	J0JKA0000038	BEAD CORE	
	L8007	J0JBC0000116	BEAD CORE	
	L8008	J0JYC0000464	BEAD CORE	
	L8037	J0JCC0000287	COIL	
	L8039	J0JHC0000045	COIL	
	L8046	J0JYC0000464	BEAD CORE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L8051	J0JCC0000245	BEAD CORE	
	L8317	G1C100MA0426	INDUCTOR	
	L8700	G1C6R8MA0426	COIL	
	L8701	G1C4R7ZA0240	INDUCTOR	
	L8703	G1C4R7ZA0240	INDUCTOR	
	L8704	G1C6R8MA0426	COIL	
	L8708	J0JYC0000464	BEAD CORE	
		TRANSISTOR		
	Q2003	B1ABCE000015	TRANSISTOR	
	Q2004	B1ABCE000015	TRANSISTOR	
	Q2005	B1ABCE000015	TRANSISTOR	
	Q2007	B1ABCE000015	TRANSISTOR	
	Q2800	B1ABCE000015	TRANSISTOR	
	Q2801	B1ABCE000015	TRANSISTOR	
	Q3106	B1ABCF000231	TRANSISTOR	
	Q3107	B1ABCF000231	TRANSISTOR	
	Q4513	B1ADCF000194	TRANSISTOR	
	Q4514	B1HFCEA00001	TRANSISTOR	
	Q4702	B1ABCE000015	TRANSISTOR	
	Q4703	B1ABCE000015	TRANSISTOR	
	Q4809	B1ABCE000015	TRANSISTOR	
	Q5101	B1ABBE000003	TRANSISTOR	
	Q5102	B1ABBE000003	TRANSISTOR	
	Q7301	B1CERR000067	TRANSISTOR	
	Q7302	B1ABBE000003	TRANSISTOR	
	Q7501	B1CHRE000015	TRANSISTOR	
	Q7502	B1CHRE000015	TRANSISTOR	
	Q7505	B1ABBE000003	TRANSISTOR	
	Q7506	B1ABBE000003	TRANSISTOR	
	Q7507	B1ABBE000003	TRANSISTOR	
	Q7510	B1ABBE000003	TRANSISTOR	
	Q8700	B1ABBE000003	TRANSISTOR	
	Q8701	B1ABBE000003	TRANSISTOR	
		RESISTOR		
	R0900	D0GA272JA023	"M 2.7KOHM	
	R0901	D0GA272JA023	"M 2.7KOHM	
	R0906	D0GA272JA023	"M 2.7KOHM	
	R0907	D0GA272JA023	"M 2.7KOHM	
	R0944	EXB28V102JX	M 1KOHM 1/32 W	
	R0968	D0GA223JA023	M 22K OHM J 1/16W	
	R0970	D0GA473JA023	"M 47KOHM	
	R0972	D0GA101JA023	"M 100 OHM	
	R0973	D0GA101JA023	"M 100 OHM	
	R0974	D0GA473JA023	"M 47KOHM	
	R0975	D0GA473JA023	"M 47KOHM	
	R0984	D0GAR00J0005	"M 0 OHM	
	R0985	D0GAR00J0005	"M 0 OHM	
	R0988	D0GA272JA023	"M 2.7KOHM	
	R0989	D0GA272JA023	"M 2.7KOHM	
	R1953	D0GA103JA023	"M10KOHM	
	R2006	D0GA102JA023	"M1KOHM	
	R2009	D0GA102JA023	"M1KOHM	
	R2012	D0GA222JA023	"M 2.2KOHM	
	R2013	D0GA101JA023	"M 100 OHM	
	R2014	D0GA103JA023	"M10KOHM	
	R2015	D0GAR00J0005	"M 0 OHM	
	R2018	D0GA473JA023	"M 47KOHM	
	R2019	D0GA473JA023	"M 47KOHM	
	R2020	D0GA102JA023	"M1KOHM	
	R2026	D1BB5601A073	"M 5.6KOHM	
	R2027	D0GA102JA023	"M1KOHM	
	R2029	D0GA472JA023	"M 4.7KOHM	
	R2031	D0GA103JA023	"M10KOHM	
	R2033	D0GA103JA023	"M10KOHM	
	R2034	D0GA473JA023	"M 47KOHM	
	R2035	D0GA473JA023	"M 47KOHM	
	R2042	D0GA102JA023	"M1KOHM	
	R2044	D0GAR00J0005	"M 0 OHM	
	R2046	D1BA7151A023	"M 7.15KOHM	
	R2194	D0GA104JA023	"M100KOHM	
	R2195	D0GA472JA023	"M 4.7KOHM	
	R2196	D0GA472JA023	"M 4.7KOHM	
	R2197	D0GA472JA023	"M 4.7KOHM	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2198	D0GA472JA023	"M 4.7KOHM	
	R2800	D1BA6800A023	"M 680OHM	
	R2801	D0GA473JA023	"M 47KOHM	
	R2802	D0GA223JA023	M 22K OHM J 1/16W	
	R2803	D0GA473JA023	"M 47KOHM	
	R2804	D0GA103JA023	"M10KOHM	
	R2805	D1BA1821A023	"M 1.82KOHM	
	R2806	D0GA470JA023	"M 47 OHM	
	R2807	D0GA153JA023	M 15K OHM J 1/16W	
	R2808	D0GA183JA023	M 18K OHM J.1/16W	
	R3050	D0GA102JA023	"M1KOHM	
	R3051	D0GA473JA023	"M 47KOHM	
	R3070	D0GA101JA023	"M 100 OHM	
	R3091	D1BA4532A023	"M 45.3 KOHM	
	R3092	D1BA4532A023	"M 45.3 KOHM	
	R3093	D0GA473JA023	"M 47KOHM	
	R3094	D0GA473JA023	"M 47KOHM	
	R3095	D0GA153JA023	M 15K OHM J 1/16W	
	R3096	D0GA153JA023	M 15K OHM J 1/16W	
	R3097	D1BA2802A023	"M 28KOHM	
	R3098	D1BA2802A023	"M 28KOHM	
	R3110	D0GA331JA023	"M 330 OHM	
	R3111	D0GA331JA023	"M 330 OHM	
	R3122	D1BD56R0A066	"M 56 OHM	
	R3124	D1BD56R0A066	"M 56 OHM	
	R3127	D0GAR00J0005	"M 0 OHM	
	R3175	D1BD18R0A066	"M 18 OHM	
	R3176	D1BD18R0A066	"M 18 OHM	
	R3178	D1BD18R0A066	"M 18 OHM	
	R3192	D0GA101JA023	"M 100 OHM	
	R3193	D0GA101JA023	"M 100 OHM	
	R3194	D1BD56R0A066	"M 56 OHM	
	R3195	D0GA101JA023	"M 100 OHM	
	R3196	D0GA101JA023	"M 100 OHM	
	R3199	D0GA512JA023	"M 5.1KOHM	
	R3200	D0GA512JA023	"M 5.1KOHM	
	R3201	D0GA103JA023	"M10KOHM	
	R3202	D0GA103JA023	"M10KOHM	
	R3205	D0GA101JA023	"M 100 OHM	
	R3206	D0GA103JA023	"M10KOHM	
	R3207	D0GA101JA023	"M 100 OHM	
	R3208	D0GD221JA052	"M 220 OHM	
	R3211	D1BF75R0A073	"M 75.0 OHM	
	R3212	D1BF75R0A073	"M 75.0 OHM	
	R3213	D1BF75R0A073	"M 75.0 OHM	
	R3214	D1BF75R0A073	"M 75.0 OHM	
	R3215	D0GAR00J0005	"M 0 OHM	
	R3216	D1H81014A042	"M 1.8KOHM	
	R3217	D0GA104JA023	"M100KOHM	
	R3218	D0GA104JA023	"M100KOHM	
	R3219	D0GA512JA023	"M 5.1KOHM	
	R3220	D0GA512JA023	"M 5.1KOHM	
	R3221	D0GA222JA023	"M 2.2KOHM	
	R3222	D0GA222JA023	"M 2.2KOHM	
	R3223	D0GA103JA023	"M10KOHM	
	R3226	D1BF75R0A073	"M 75.0 OHM	
	R3227	D1BA5102A023	"M 51KOHM	
	R3228	D1BA1002A023	"M 10KOHM	
	R3231	D0GAR00J0005	"M 0 OHM	
	R3238	D0GA472JA023	"M 4.7KOHM	
	R3243	D0GA220JA023	"M22 OHM	
	R4106	D0GAR00J0005	"M 0 OHM	
	R4150	D0GA102JA023	"M1KOHM	
	R4154	D0GAR00J0005	"M 0 OHM	
	R4155	D0GAR00J0005	"M 0 OHM	
	R4156	D0GAR00J0005	"M 0 OHM	
	R4159	D0GAR00J0005	"M 0 OHM	
	R4548	D0GA220JA023	"M22 OHM	
	R4549	D0GA151JA023	"M 150 OHM	
	R4550	D0GA151JA023	"M 150 OHM	
	R4551	D0GA151JA023	"M 150 OHM	
	R4552	D0GA560JA023	"M 56 OHM	
	R4554	D0GA102JA023	"M1KOHM	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4560	D0GA473JA023	"M 47KOHM	
	R4563	D0GA103JA023	"M10KOHM	
	R4715	D0GA103JA023	"M10KOHM	
	R4716	D0GB101JA069	"M 100 OHM	
	R4717	D0GB101JA069	"M 100 OHM	
	R4720	D0GB101JA069	"M 100 OHM	
	R4721	D0GA103JA023	"M10KOHM	
	R4722	D0GB101JA069	"M 100 OHM	
	R4724	D0GA102JA023	"M1KOHM	
	R4726	D0GB101JA069	"M 100 OHM	
	R4727	D0GB101JA069	"M 100 OHM	
	R4744	D0GA103JA023	"M10KOHM	
	R4745	EXB28V473JX	M 47KOHM 1/32 W	
	R4747	D0GA103JA023	"M10KOHM	
	R4748	D0GA102JA023	"M1KOHM	
	R4749	D0GA220JA023	"M22 OHM	
	R4816	D0GD222JA052	"M 2.2KOHM	
	R4845	D0GA221JA023	"M220 OHM	
	R4859	D0GA223JA023	M 22K OHM J 1/16W	
	R4875	D0GA821JA023	"M 820OHM	
	R4876	D0GA821JA023	"M 820OHM	
	R4898	D0GA220JA023	"M22 OHM	
	R4899	D0GA220JA023	"M22 OHM	
	R4912	D0GA151JA023	"M 150 OHM	
	R4913	D0GA151JA023	"M 150 OHM	
	R4914	D0GA151JA023	"M 150 OHM	
	R4915	D0GA151JA023	"M 150 OHM	
	R4924	D0GAR00J0005	"M 0 OHM	
	R4925	D0GAR00J0005	"M 0 OHM	
	R5002	D0GA683JA023	"M 68KOHM	
	R5003	D0GA103JA023	"M10KOHM	
	R5004	D0GA103JA023	"M10KOHM	
	R5006	D0GA563JA023	"M 56KOHM	
	R5007	D0GA223JA023	M 22K OHM J 1/16W	
	R5009	D1BA5602A023	"M 56KOHM	
	R5010	D0GA102JA023	"M1KOHM	
	R5012	D1BA2202A023	"M 22KOHM	
	R5056	D0GA103JA023	"M10KOHM	
	R5061	D0GA223JA023	M 22K OHM J 1/16W	
	R5063	D0GA102JA023	"M1KOHM	
	R5175	D0GA680JA023	"M 68 OHM	
	R5176	D0GA683JA023	"M 68KOHM	
	R5177	D0GA222JA023	"M 2.2KOHM	
	R5178	D0GA222JA023	"M 2.2KOHM	
	R5179	D0GA183JA023	M 18K OHM J.1/16W	
	R5182	D0GA103JA023	"M10KOHM	
	R5183	D0GA473JA023	"M 47KOHM	
	R5184	D0GA103JA023	"M10KOHM	
	R5185	D0GA473JA023	"M 47KOHM	
	R5608	D0GA103JA023	"M10KOHM	
	R5609	D0GA103JA023	"M10KOHM	
	R5610	D1HYR004A024	NETWORK RESISTER	
	R6006	D0GA101JA023	"M 100 OHM	
	R6007	D0GA101JA023	"M 100 OHM	
	R6017	D0GA101JA023	"M 100 OHM	
	R6712	D0GA473JA023	"M 47KOHM	
	R6713	D0GA473JA023	"M 47KOHM	
	R6715	D0GA470JA023	"M 47 OHM	
	R6716	D0GA470JA023	"M 47 OHM	
	R6723	D1HY2208A012	NETWORK RESISTER	
	R6728	D1HY2208A012	NETWORK RESISTER	
	R6735	D1HY2208A012	NETWORK RESISTER	
	R6738	D1H84704A042	"M 47 OHM	
	R6739	D0GA470JA023	"M 47 OHM	
	R6742	D0GA152JA023	"M 1.5KOHM	
	R6744	D0GA220JA023	"M22 OHM	
	R6747	D1H82204A042	"M22 OHM	
	R6749	D1H82204A042	"M22 OHM	
	R6752	D1H82204A042	"M22 OHM	
	R6755	D1HY2208A012	NETWORK RESISTER	
	R6766	D1HY2208A012	NETWORK RESISTER	
	R6771	D1H82204A042	"M22 OHM	
	△ R7101	D0GF105JA048	M 1M OHM. 1/4W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
△	R7102	D0GF105JA048	M 1M OHM. 1/4W	
△	R7103	D0GF105JA048	M 1M OHM. 1/4W	
△	R7104	D0GF105JA048	M 1M OHM. 1/4W	
	R7311	D0GD682JA052	"M 6.8KOHM	
	R7313	D0GD220JA052	"M 22 OHM	
	R7314	D0GD681JA052	"M 680 OHM	
	R7316	D0C1R27JA104	"M 0.27OHM	
	R7317	D0GD680JA052	"M 68 OHM	
	R7318	D0GD471JA052	"M 470 OHM	
	R7319	D0GD683JA052	"M 68KOHM	
	R7320	D0GD272JA052	"M 2.7KOHM	
	R7322	D0GD752JA052	"M 7.5KOHM	
	R7325	D0GD100JA059	"M 10 OHM	
	R7329	D0GDR00J0004	"M 0 OHM	
	R7335	D0B1106JA033	M 10MOHM J 1W	
	R7342	D0GD182JA052	"M 1.8KOHM	
	R7343	D0GD182JA052	"M 1.8KOHM	
	R7344	D0GD182JA052	"M 1.8KOHM	
	R7345	D0GD431JA052	"M 430OHM	
	R7402	D1BD9100A066	"M 910OHM	
	R7403	D1BD1401A066	"M 1.4KOHM	
	R7404	D1BD1801A066	"M 1.8KOHM	
	R7405	D1BD5601A066	"M 5.6KOHM	
	R7501	D0GD473JA052	"M 47KOHM	
	R7502	D0GD104JA052	"M 100KOHM	
	R7503	D0GD153JA052	"M 15KOHM	
	R7504	D0GD153JA052	"M 15KOHM	
	R7507	D0GD683JA052	"M 68KOHM	
	R7508	D0GD752JA052	"M 7.5KOHM	
	R7509	D0GD752JA052	"M 7.5KOHM	
	R7511	D0GD103JA052	"M 10KOHM	
	R7512	D0GD472JA052	"M 4.7KOHM	
	R7513	D0GD752JA052	"M 7.5KOHM	
	R7514	D0GD752JA052	"M 7.5KOHM	
	R7515	D0GD222JA052	"M 2.2KOHM	
	R7516	D0GD472JA052	"M 4.7KOHM	
	R7517	D0GD222JA052	"M 2.2KOHM	
	R7519	D1BD6801A066	"M 6.8KOHM	
	R7520	D1BD3301A066	"M 3.3KOHM	
	R7521	D1BD1202A066	"M 12KOHM	
	R7523	D0GD473JA052	"M 47KOHM	
	R7524	D0GD103JA052	"M 10KOHM	
	R7525	D0GD472JA052	"M 4.7KOHM	
	R7526	D0GD103JA052	"M 10KOHM	
	R7527	D0GDR00J0004	"M 0 OHM	
	R7532	D1BD1151A066	"M 1.15KOHM	
	R7533	D0GD153JA052	"M 15KOHM	
	R7534	D0GD103JA052	"M 10KOHM	
	R7535	D0GD103JA052	"M 10KOHM	
	R8020	D0GA101JA023	"M 100 OHM	
	R8021	D0GA101JA023	"M 100 OHM	
	R8022	D0GA101JA023	"M 100 OHM	
	R8099	D0GA102JA023	"M10KOHM	
	R8100	D0GA103JA023	"M10KOHM	
	R8101	D0GA472JA023	"M 4.7KOHM	
	R8102	D0GA101JA023	"M 100 OHM	
	R8103	D0GA103JA023	"M10KOHM	
	R8105	D1BA2402A023	"M 24KOHM	
	R8120	D0GA471JA023	"M 470OHM	
	R8130	D1BF75R0A073	"M 75.0 OHM	
	R8137	D0GA103JA023	"M10KOHM	
	R8150	D0GA330JA023	"M 33 OHM	
	R8151	D0GA330JA023	"M 33 OHM	
	R8152	D0GA330JA023	"M 33 OHM	
	R8153	D0GA103JA023	"M10KOHM	
	R8154	D0GA103JA023	"M10KOHM	
	R8155	D0GA472JA023	"M 4.7KOHM	
	R8156	D0GA472JA023	"M 4.7KOHM	
	R8158	D0GAR00J0005	"M 0 OHM	
	R8204	D1BA1001A023	"M 1 KOHM	
	R8207	D1BA1001A023	"M 1 KOHM	
	R8220	D0GA101JA023	"M 100 OHM	
	R8222	D1BA2400A023	"M 240 OHM	

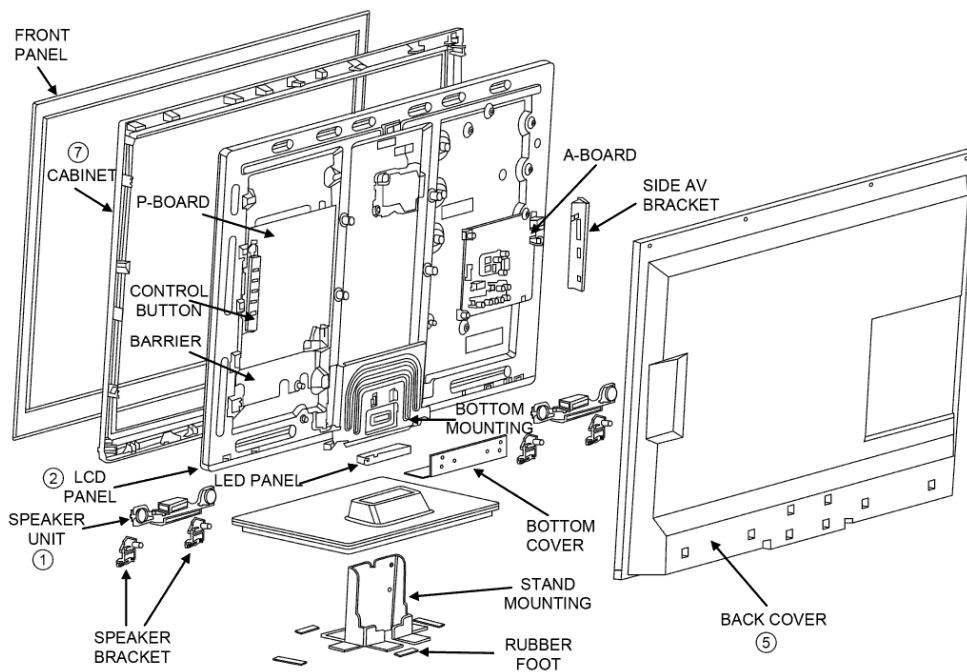
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8224	D1H81014A042	"M 100 OHM	
	R8225	D1H81014A042	"M 100 OHM	
	R8226	D1BA1001A023	"M 1 KOHM	
	R8227	D1BA1001A023	"M 1 KOHM	
	R8240	D0GA103JA023	"M10KOHM	
	R8242	D1H81014A042	"M 100 OHM	
	R8243	D1H81014A042	"M 100 OHM	
	R8244	D1H81014A042	"M 100 OHM	
	R8245	D1H81014A042	"M 100 OHM	
	R8390	D0GA101JA023	"M 100 OHM	
	R8391	D1BA2152A023	"M 21.5KOHM	
	R8393	D1BA1501A023	"M 1.5KOHM	
	R8418	D0GA103JA023	"M10KOHM	
	R8435	D0GA223JA023	M 22K OHM J 1/16W	
	R8442	D0GA103JA023	"M10KOHM	
	R8447	D0GA103JA023	"M10KOHM	
	R8448	D0GA103JA023	"M10KOHM	
	R8449	D0GA103JA023	"M10KOHM	
	R8450	D0GA103JA023	"M10KOHM	
	R8451	D0GA103JA023	"M10KOHM	
	R8453	D0GA103JA023	"M10KOHM	
	R8700	D1BA6341A023	"M 6.34KOHM	
	R8701	D1BA2001A023	"M 2KOHM	
	R8704	D1BA1052A023	"M 10.5KOHM	
	R8705	D1BA2001A023	"M 2KOHM	
	R8708	D0GB2R2JA065	M 2.2OHM J 1/10W	
	R8709	D0GB2R2JA065	M 2.2OHM J 1/10W	
	R8730	D0GB2R2JA065	M 2.2OHM J 1/10W	
	R8732	D1BA1071A023	"M 1.07KOHM	
	R8734	D1BA2001A023	"M 2KOHM	
	R8737	D0GB2R2JA065	M 2.2OHM J 1/10W	
	R8739	D1BA1821A023	"M 1.82KOHM	
	R8740	D1BA2001A023	"M 2KOHM	
	R8741	D0GA153JA023	M 15K OHM J 1/16W	
	R8742	D0GA473JA023	"M 47KOHM	
	R8744	D0GA153JA023	M 15K OHM J 1/16W	
		TRANSFORMER		
△	T7301A	G4DYA0000409	TRANSFORMER	
		OTHRES		
	A09	K1KY12BA0388	CONNECTOR	
	A10	K1KA07B00135	CONNECTOR	
	A12	K1KA04BA0055	CONNECTOR	
	A16	K1MY51BA0526	CONNECTOR	
△	CF7101	D4CA98R0A001	THERMISTOR	
	CN0100	K1KA14A00248	CONNECTOR	
	D2800A	B3AGB0000060	LED	
△	F7101	K5E502YY0001	FUSE	
	FL4000	EXC28CE201U	CHOKE COIL	
	FL4001	EXC28CE201U	CHOKE COIL	
	FL4201	EXC28CE201U	CHOKE COIL	
	FL4202	EXC28CE201U	CHOKE COIL	
	FL4203	EXC28CE201U	CHOKE COIL	
	JA2	ERJ6GEY0R00V	FIXED RESISTOR	
	JA3	ERJ6GEY0R00V	FIXED RESISTOR	
	JK1000	K1FY119D0026	TERMINAL	
	JK1001	K1FY119D0026	TERMINAL	
	JK1003	K1FY121A0017	AV TERMINAL	
	JK1031	K1FY104E0006	CONNECTOR	
	JK1070	K1NA68AA0004	AV TERMINAL	
	JK2102	K2HC104E0021	EAR PHONE JACK	
	JK3000	K1U511A00016	AV TERMINAL	
	JK7101	K2AAYB000009	AV TERMINAL	
	JS0015	D0GAR00J0005	CHIP RESISTOR	
	JS0027	D0GAR00J0005	CHIP RESISTOR	
	K10	K1KA07A00292	CONNECTOR	
△	LF7103A	G0B153G00003	LINE FILTER	
△	LF7104A	G0B153G00003	LINE FILTER	
	P2	K1KY12BA0386	CONNECTOR	
	P3	K1KY08BA0402	CONNECTOR	
	PC7300	B3PAA0000629	PHOTO COUPLER	
	PC7301	B3PAA0000629	PHOTO COUPLER	
	RM2800	PNJ4815M01TV	REMOCON SENSOR	
	SN2800	B3JB00000116	PHOTO DETECTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	SW7401	EVQ11G05R	SWITCH	
	SW7402	EVQ11G05R	SWITCH	
	SW7403	EVQ11G05R	SWITCH	
	SW7404	EVQ11G05R	SWITCH	
	SW7405	EVQ11G05R	SWITCH	
	SW7406	EVQ11G05R	SWITCH	
⚠	TU4802	ENVS9301D5F	TUNER	
	X6700	H0J270500137	RESONATORS	
	X8301	H0J270500137	RESONATORS	
	ZA7101	K4AD01A00004	RUG TERMINAL	
	ZA7102	K4AD01A00004	RUG TERMINAL	

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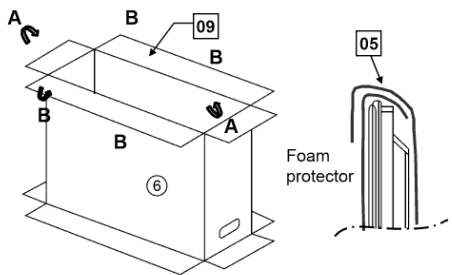
**Model No. : TX-LR32EM5A Parts Location**

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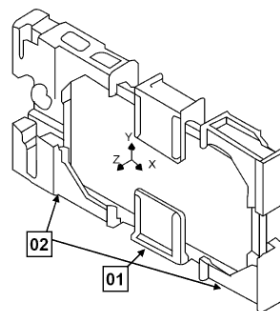
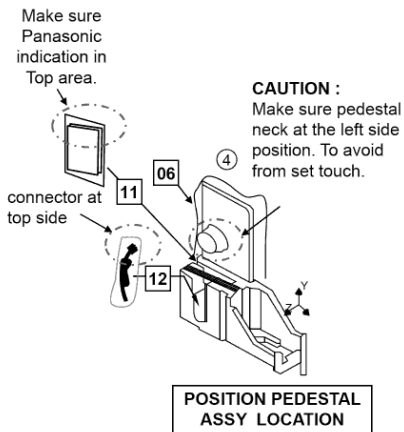
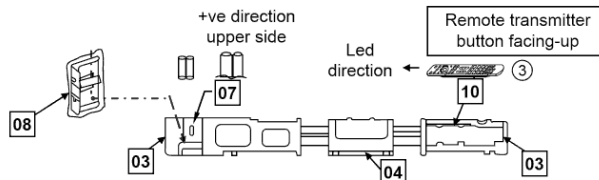
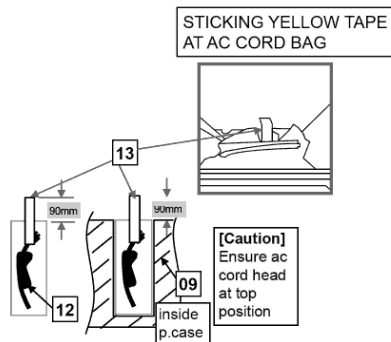


# Model No. : TX-LR32EM5A Packing Exploded View

1. Fix AC cord at btm cushion and stick yellow tape at top area.
2. Fix the bottom cushion into Packing Case.
3. Accessories direction spec at bottom cushion & top cushion.



No.	Item	Description	Qty	UOM
01	TPD3FA00101	BOTTOM CENTER CUSHION	1	PC
02	TPD3FA00081	BOTTOM CUSHION	1	PC
03	TPD3FA00071	TOP CUSHION	1	PC
04	TPD3FA00091	TOP CENTER CUSHION	1	PC
05	TPE4GH065	SET COVER	1	PC
06	TBL3FX00011	PEDESTAL ASSY	1	PC
07	R6UWC/2SKD	BATTERY	1	PC
08	TBL5ZX04871 + TXFPE02LTUK	STAND MTG ASSY + PEDESTAL SCREW ACCESSORIES ASSY	1	PC
09	TPC3FA00401	PACKING CASE	1	PC
10	N2QAYB000803	REMOTE TRANSMITTER	1	PC
11	TQZ4GB642	FAN BAG ASSY	1	PC
12	K2CQ2YY00109	AC CORD	1	PC
13	T5E4G62400	YELLOW TAPE	1.8	MT



## Model No. : TX-LR32EM5A Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	⚠		K2CQ2YY00109	AC CORD		
		1	L0AA07B00008	SPEAKER UNIT		
	⚠	2	L5EDDY00413	LCD PANEL		
		3	N2QAYB000803	REMOTE TRANSMITTER		
		4	TBL3FX00011	PEDESTAL ASSY		
			TBL5ZX04871	STAND MOUNTING ASSY		
	⚠		TBM4GC9901	MODEL NAME PLATE		
			TBX5ZA01701	CONTROL BUTTON		
			TKP5ZA24101	BOTTOM COVER		
			TKP5ZA24703	SIDE AV BRACKET		
		5	TKU3FC00501	BACK COVER		
			TKX5ZA02501	SPEAKER BRACKET		
		6	TPC3FA00401	PACKING CASE		
			TPD3FA00071	TOP CUSHION		
			TPD3FA00081	BOTTOM CUSHION		
			TPD3FA00091	TOP CENTER CUSHION		
			TPD3FA00101	BOTTOM CENTER CUSHION		
			TPE4GH065	SET COVER		
			TQZ4GB642	FAN BAG ASSY		
	⚠		TSCKF0070001	LVDS CABLE		
			TXFKK5Z0004	LED PANEL ASSY		
			TXFKK5Z0006	LED BRACKET ASSY		
		7	TXFKY5Z0413	CABINET ASSY		
			XSS4+16FJK	SCREW		
Electrical Replacement Part List						
	⚠	RTL	TXN/K1TQUE	K PRINT		
	⚠	RTL	TXN/P1RNUA	P PRINT		
	⚠	RTL	TZT/A1TWUR	A PRINT ASSY		