

# Service Manual

## LCD TV



Model No. **TH-L32E3R**

Chassis: **KM11**

Destination: **IRAN**

### **⚠ WARNING**

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

### **IMPORTANT SAFETY NOTICE**

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

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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.

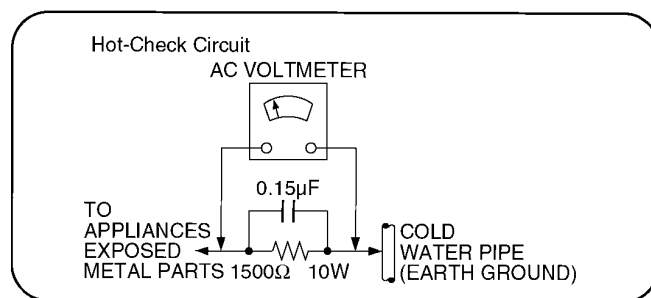


Figure 1

## 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).

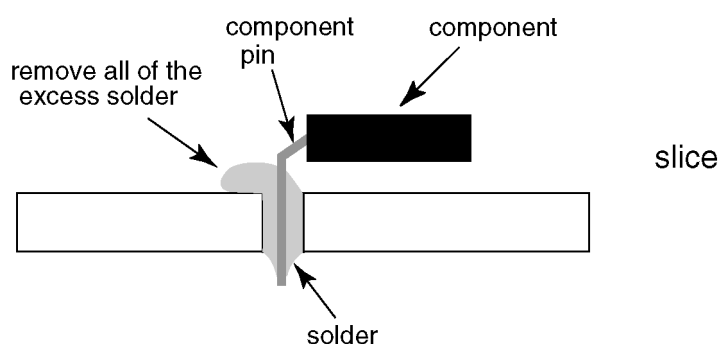
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

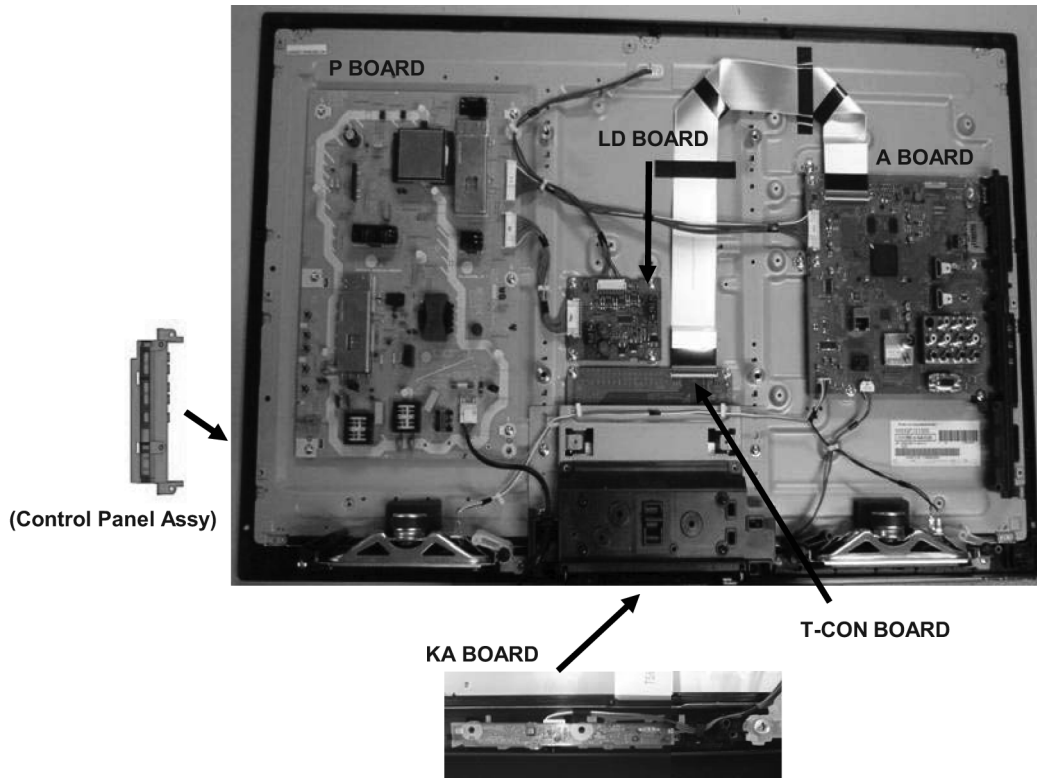
### Caution

- 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	AVSW, TUN, OFDM, P-SLD2, EEP	Repairable
P BOARD	Power Supply	Repairable
KA BOARD	Remote, LED, Luminunce Sensor	Repairable
LD BOARD	LED Driver	Repairable
TC BOARD	FHD LVDS signal board	Repairable
Control Panel Assy	Power Switch,Keyscan Control Button, Power switch Non serviceable Control Panel Assy should be exchanged for service.	Repairable

## 4 Specifications

<b>Power Source</b>	AC 220 - 240 V, 50 / 60 Hz
<b>Power Consumption</b>	
<b>Power Rating</b>	64 W
<b>Standby Condition</b>	0.2 W
<b>Display panel</b>	
<b>Aspect Ratio</b>	16:9
<b>Visible screen size</b>	80 cm (diagonal) 698 mm (W) × 393 mm (H)
<b>Number of pixels</b>	2,073,600 (1,920 (W) × 1,080 (H))
<b>Sound</b>	
<b>Speaker</b>	(160 mm × 42 mm) × 2, 8 Ω
<b>Audio Output</b>	20 W (10 W + 10 W)
<b>Headphones</b>	M3 (3.5 mm) stereo mini Jack × 1
<b>PC signals</b>	VGA, SVGA, WVGA, XGA SXGA, WXGA ..... (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz

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

<b>Receiving Channels (Analogue TV)</b>	
<b>VHF BAND</b>	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)
<b>UHF BAND</b>	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)
<b>CATV</b>	S1 - S20 (OSCAR) 1 - 125 (USA CATV) C13 - C49 (JAPAN) S21 - S41 (HYPER) Z1 - Z37 (CHINA) 5A, 9A (AUST.)

<b>Aerial - Rear</b>	VHF / UHF
<b>Operating Conditions</b>	Temperature : 0°C - 40°C Humidity : 20 % - 80 % RH (non-condensing)

<b>Connection Terminals</b>			
<b>AV1 Input</b>	<b>AUDIO L-R</b>	RCA PIN Type × 2	0.5 V [rms]
	<b>VIDEO</b>	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
	<b>COMPONENT</b>	Y	1.0 V [p-p] (including synchronization)
		P <sub>B</sub> /C <sub>B</sub> , P <sub>R</sub> /C <sub>R</sub>	± 0.35 V [p-p]
<b>AV2 Input</b>	<b>AUDIO L-R</b>	RCA PIN Type × 2	0.5 V [rms]
	<b>VIDEO</b>	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
<b>AV3 Input</b>	<b>AUDIO L-R</b>	RCA PIN Type × 2	0.5 V [rms]
	<b>VIDEO</b>	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

<b>Audio Output</b>	<b>AUDIO L-R</b>	RCA PIN Type × 2	0.5 V [rms] (high impedance)
<b>Others</b>	<b>HDMI 1 - 3 Input</b>	TYPE A Connectors	<ul style="list-style-type: none"> <li>• This TV supports 'HDAVI Control 5' function.</li> </ul>
	<b>PC Input</b>	HIGH-DENSITY D-SUB 15 PIN	R / G / B: 0.7 V[p-p] (75 Ω)
	<b>DIGITAL AUDIO OUT</b>	PCM / Dolby Digital, Fiber optic	HD / VD: TTL LEVEL 2.0-5.0 V [p-p] (high impedance)
	<b>Card Slot</b>	SD Card slot × 1	
	<b>USB 1/2</b>	USB 2.0 TYPE A Connectors	DC 5 V, Max. 500 mA
	<b>ETHERNET</b>	10BASE-T / 100BASE-TX	
<b>Dimension (W x H x D)</b>		769 mm × 514 mm × 207 mm (With Pedestal)	
		769 mm × 480 mm × 75 mm (TV only)	
<b>Mass</b>		11.0 kg Net (With Pedestal)	
		9.5 kg Net (TV only)	

**Note**

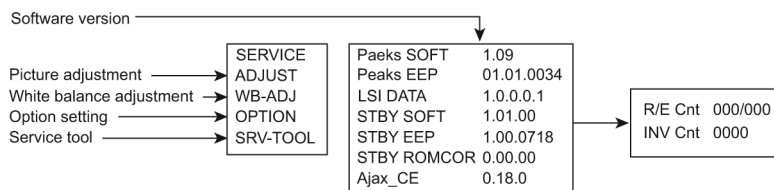
- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.



## 5 Service Mode

### 5.1. How to enter into Service Mode

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



#### 5.1.1. Contents of adjustment mode

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

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

#### 5.1.2. How to exit

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

## 5.2. SRV-TOOL

### 5.2.1. How to access

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

	SRV-TOOL		
Display of TD2Microcode version →	TD2Microcode:0075004		
Display of Flash ROM maker code →	Flash ROM : AD-F1		
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00	Time 00016.46	Count 0000024 ←
			POWER ON TIME/COUNT Press [MUTE] button (3sec)

### 5.2.2. Display of SOS History

SOS History (Number of LED blinking ) indication.

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

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

### 5.2.3. POWER ON TIME/COUNT

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

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

Count : Number of ON times by decimal

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

### 5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

### 5.2.5. Self Check Mode

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

### 5.2.6. Hotel Mode Adjustment

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

### 5.2.7. Hotel Mode

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

Then, the Hotel mode setup menu is displayed.

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



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

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

## 6 Troubleshooting Guide

Use the self-check function to test the unit.

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

### 6.1. Check of the IIC bus lines

#### 6.1.1. How to access

Self-check indication only:

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

Self-check indication and forced to factory shipment setting:

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

#### 6.1.2. Exit

Disconnect the AC cord from wall outlet.

#### 6.1.3. Screen display

SELF CHECK		---- . XXXXXX - XXXXXX
PEAKS	OK	
TUN	OK	
AVSW	OK	
STBY	OK	
MEM1	OK	
MEM2	OK	
MEM3	OK	
DCDC	OK	
DAC	OK	
ID	OK	
Copyright Panasonic Corporation 2011.		

## 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:

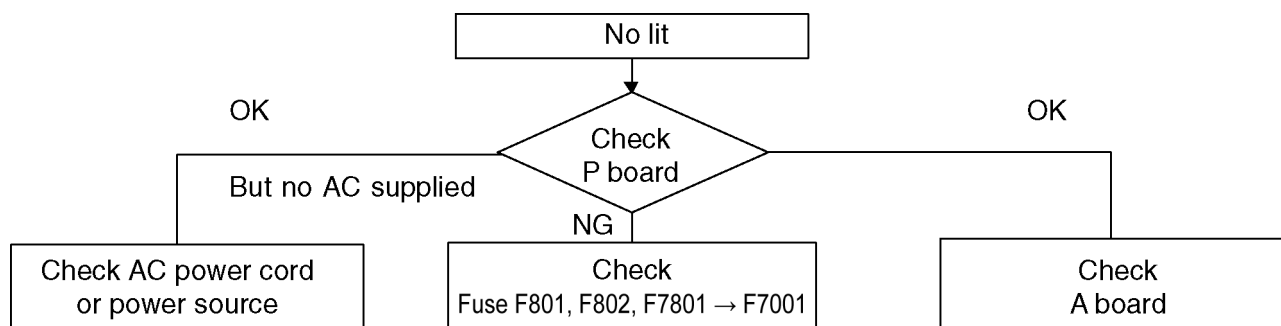
LCD		Remark	EEPROM ADR address	PCB NAME
Times	SOS			
1	BackLight_SOS		0 × 0461	A-Board P-Board LCD Panel
3	SOS(Tuner_SOS)	SUB3.3V/panel_15V	0 × 045B	A-Board
4	SUB12V_SENSE_SOS		0 × 045A	A-Board
7	SUB3.3V_SENSE_SOS		0 × 0459	A-Board
9	SOUND_SOS		0 × 045D	A-Board P-Board
10	ZWEI2_SOS	detect of IIC	0 × 0462	A-Board LCD Panel
12	BackEnd(sLD)_SOS		0 × 0466	A-Board
13	EMERGENCY_SOS	communication error		A-Board
14	IROM_SOS	Error of STM micon		A-Board

## 6.3. No Power

First check point

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

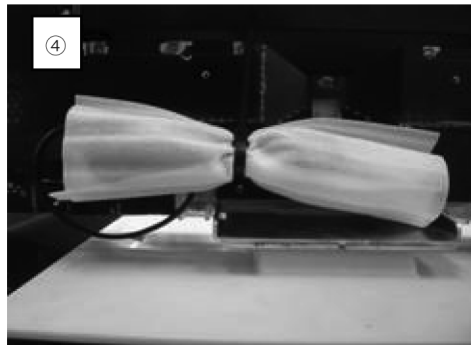
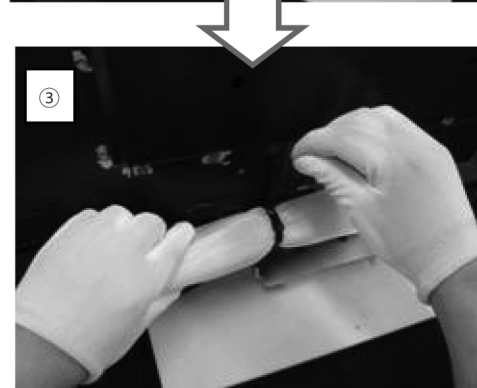
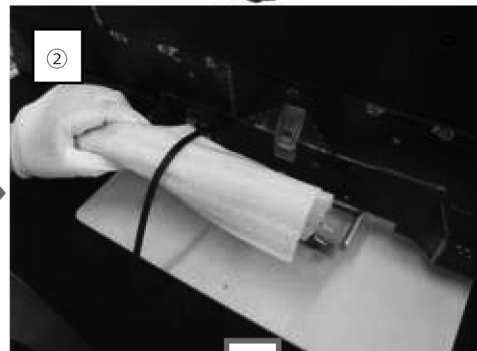
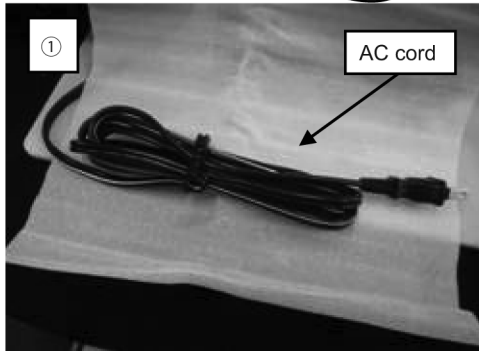
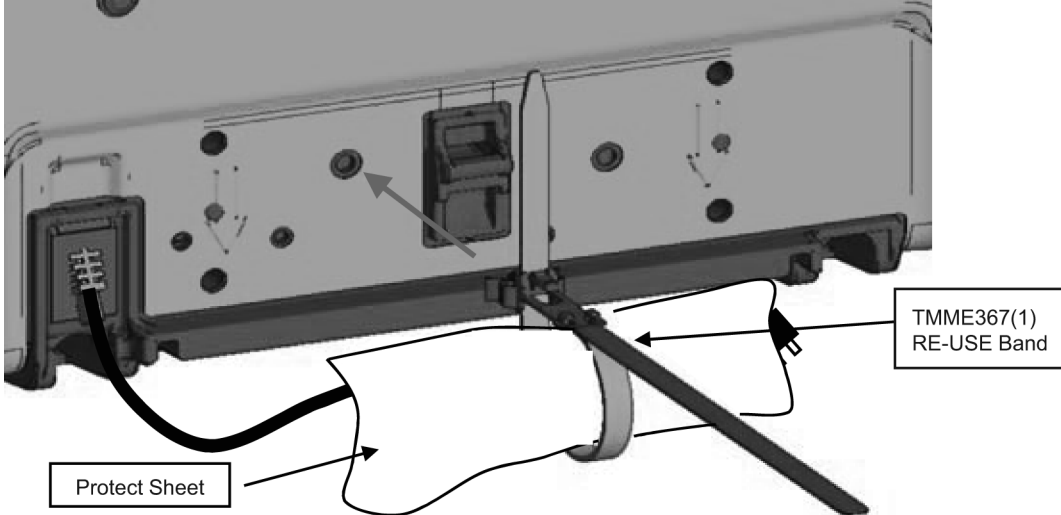
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



# 7 Disassembly and Assembly Instructions

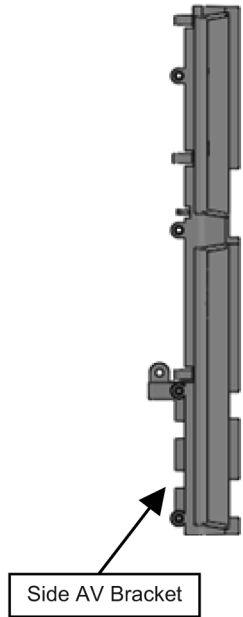
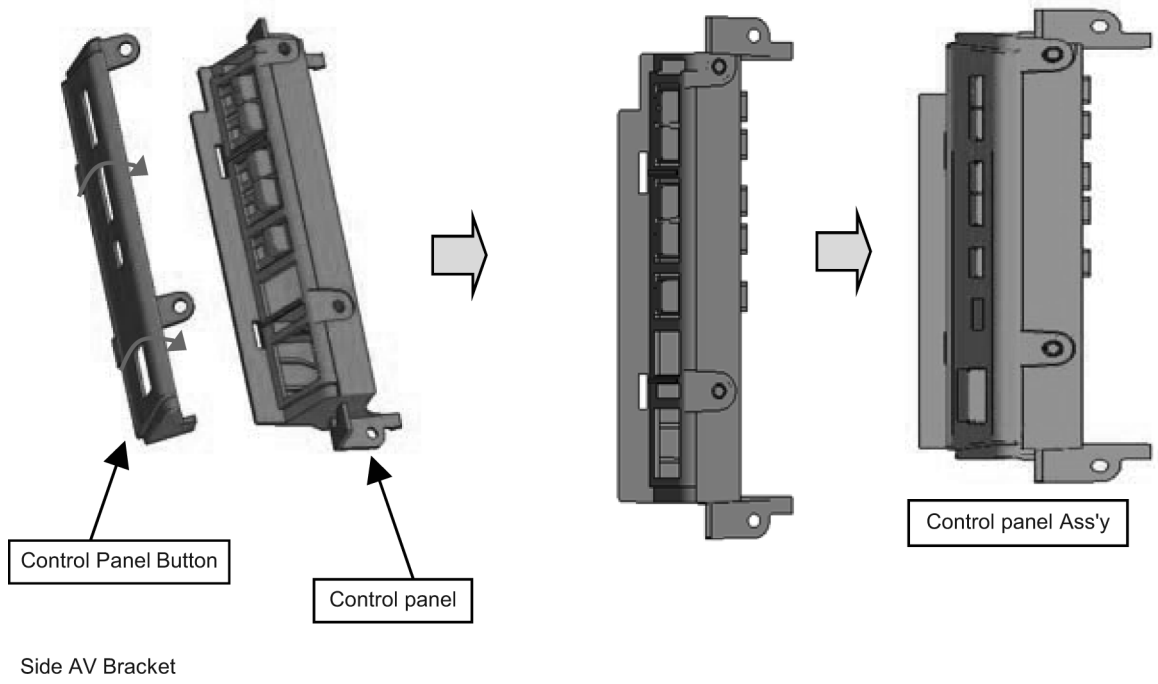
## 7.1. AC Cord Dressing

1. Fix Re-Use band at bottom bracket.
  2. Cover AC cord with protect sheet and dressing with re-use band.
- (follow sequence 1→2→3→4)



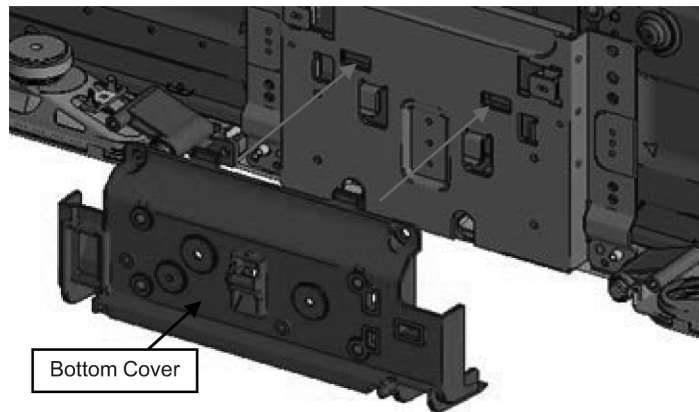
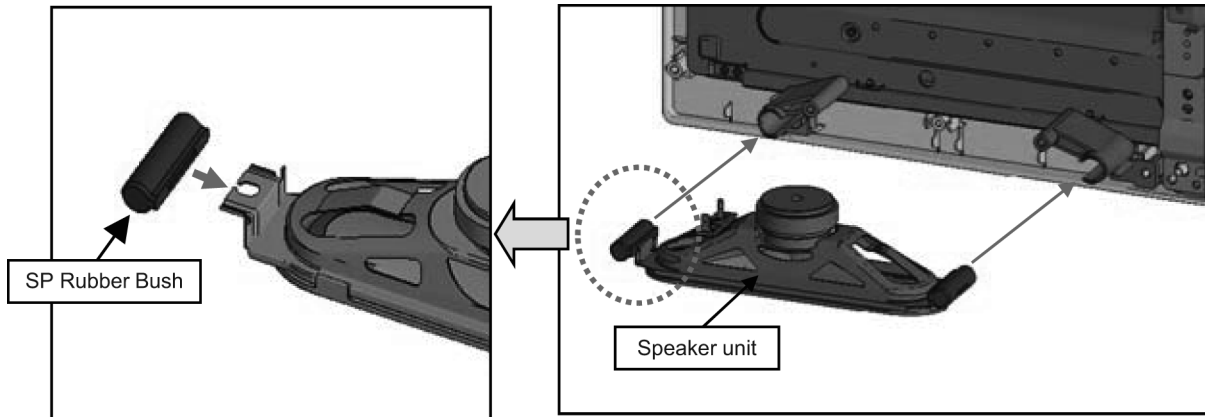
## 7.2. Control Panel Assembly & Side AV Installation

Fix control panel button into control panel bracket.



### 7.3. Speaker and Bottom Bracket Installation

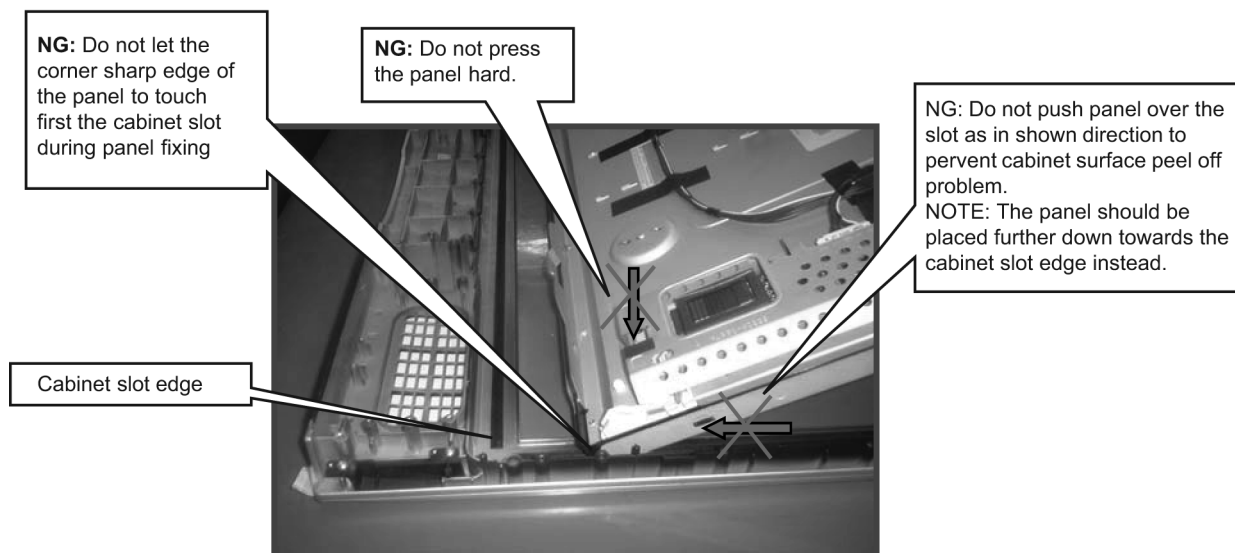
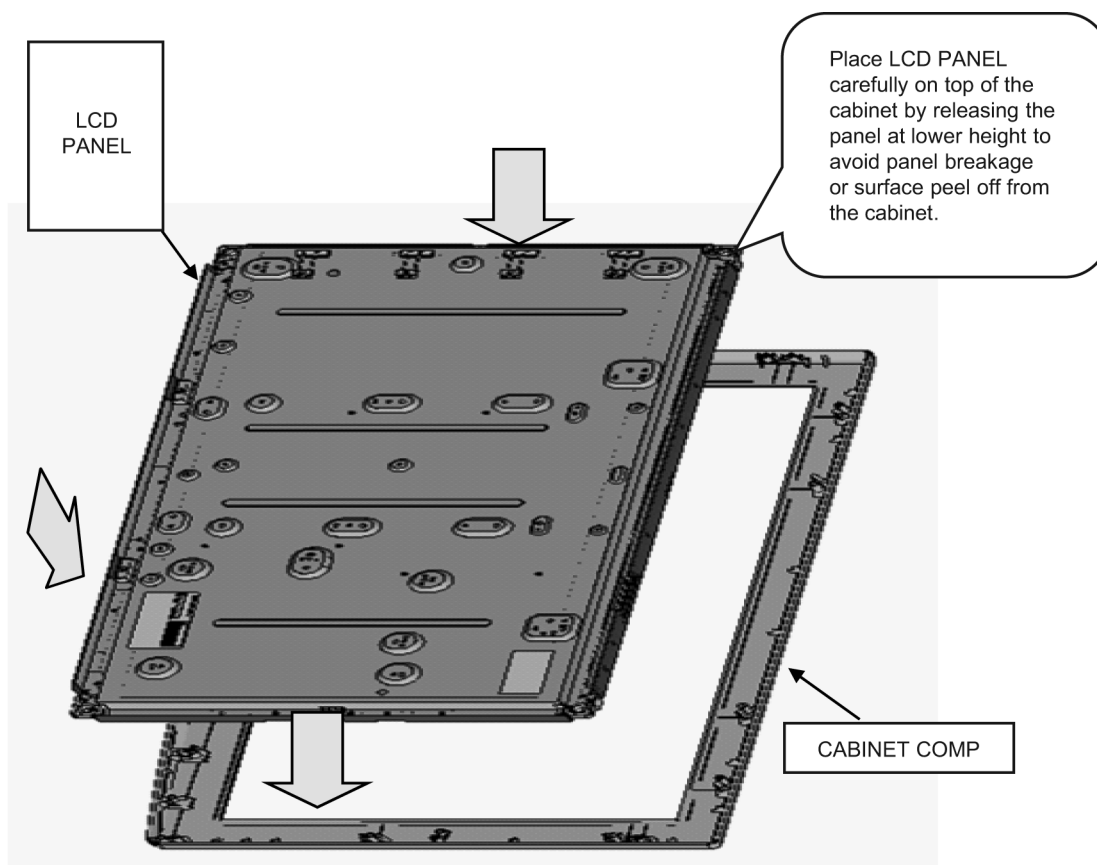
1. Fix SP Rubber Bush at SP unit (L & R).
2. Install SP unit L and SP unit R.
3. Install bottom bracket.





## 7.4. LCD Panel Fixing & Handling Method

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

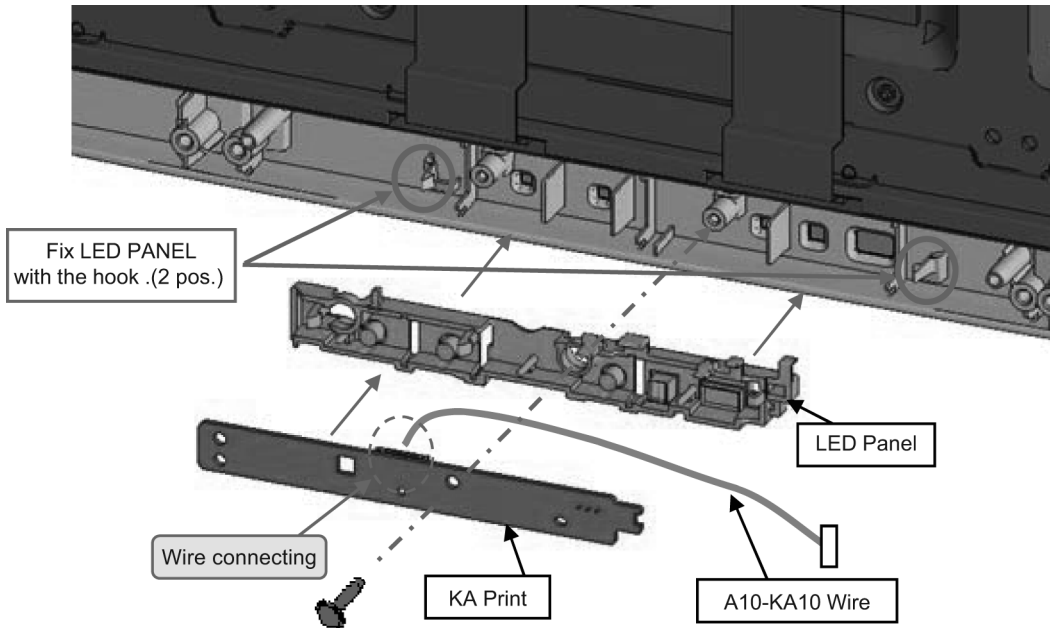


### Other general precautions

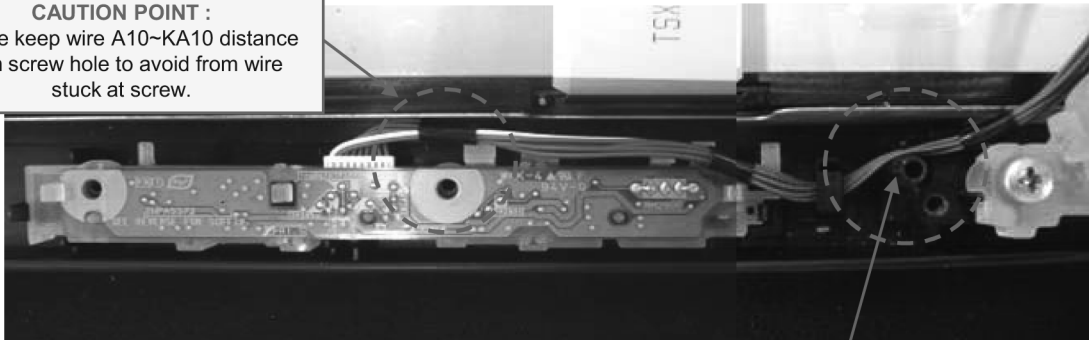
1. Do not press panel surface to avoid blue spot on the panel display.
2. Do not use hard cloth or rub the surface too hard. This may cause scratches on the surface.
3. Take care not to subject the TV's surface to water or detergent. Any liquid (including pets urine) if enters the product could lead 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. LED Panel Installation

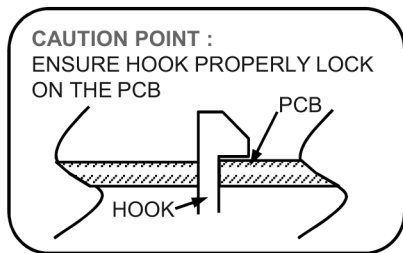
1. Fix LED PANEL on CABINET.
2. Insert an A10-KA10 lead connector in KA-Print.
3. Put KA-Print on LED PANEL.
4. Fix LED PANEL assy with SCREW.




**CAUTION POINT :**  
Please keep wire A10~KA10 distance from screw hole to avoid from wire stuck at screw.



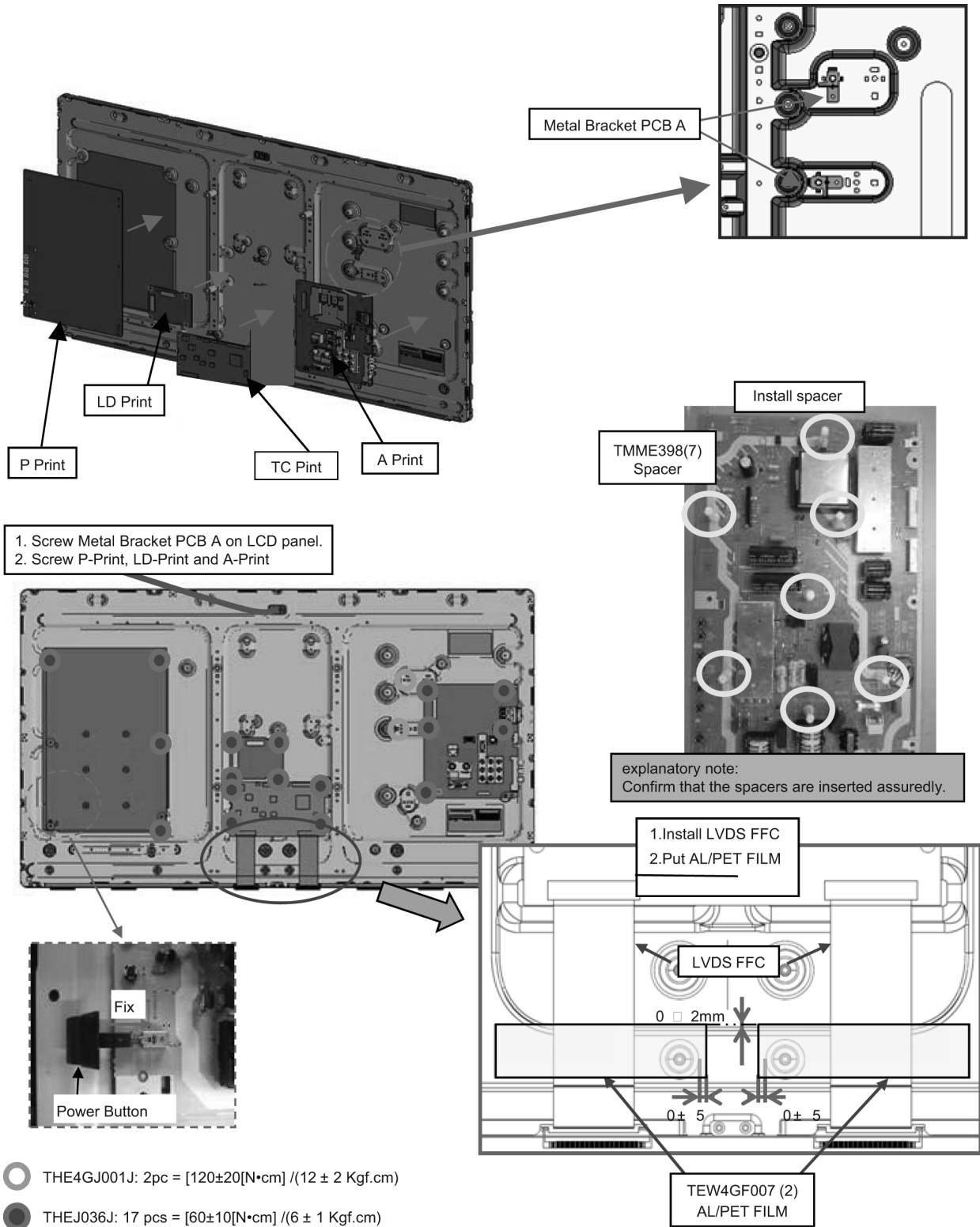
Slot A10-KA10 wire at cabinet rib for avoid stuck with bottom metal



 = Screw : XTW3+10TFJ (1) 【 60±10 N•cm / 6+1KgfcM 】

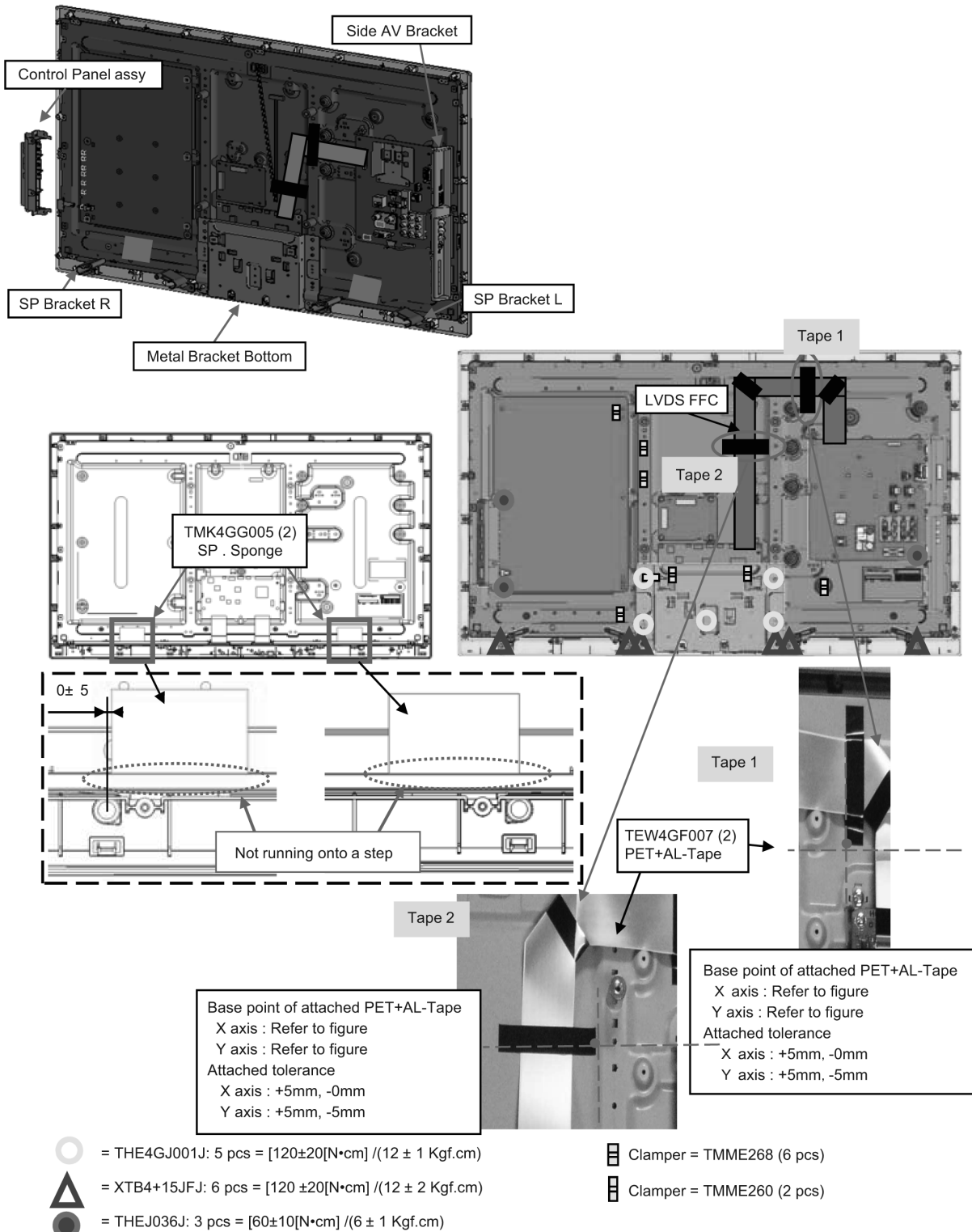
## 7.6. Install and Screw PCB

1. Install P-print on LCD panel.
2. Install A-print on LCD panel.
3. Install Metal Bracket PCB A on LCD panel.
4. Fix power button into P Print first before control panel.
5. Fix spacer in to P Print.
6. Stick AL Pet + Tape at mini LVDS wire.



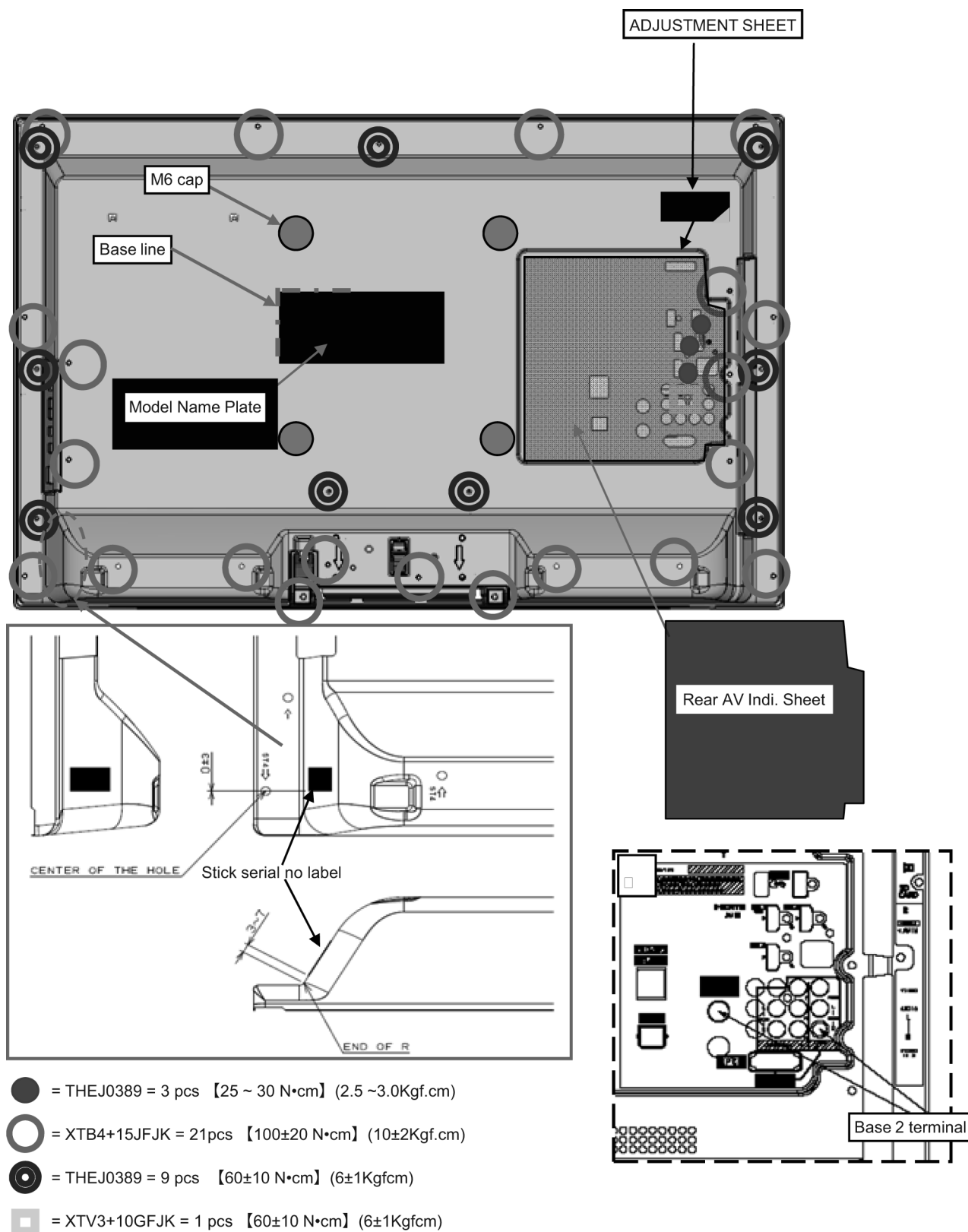
## 7.7. Small Part Install, Screw and Sponge Sticking

1. Install Control Panel
2. Install side AV bracket.
3. Install Speaker Bracket (4).
4. Install Metal Bracket Bottom.
5. Screw Control Panel into board.
6. Screw Side AV bracket.
7. Screw Metal Bracket Bottom.
8. Screw Speaker bracket.
9. Slot clammer into LCD Panel.
10. Slot LVDS wire and Stick PET+AL-tape.



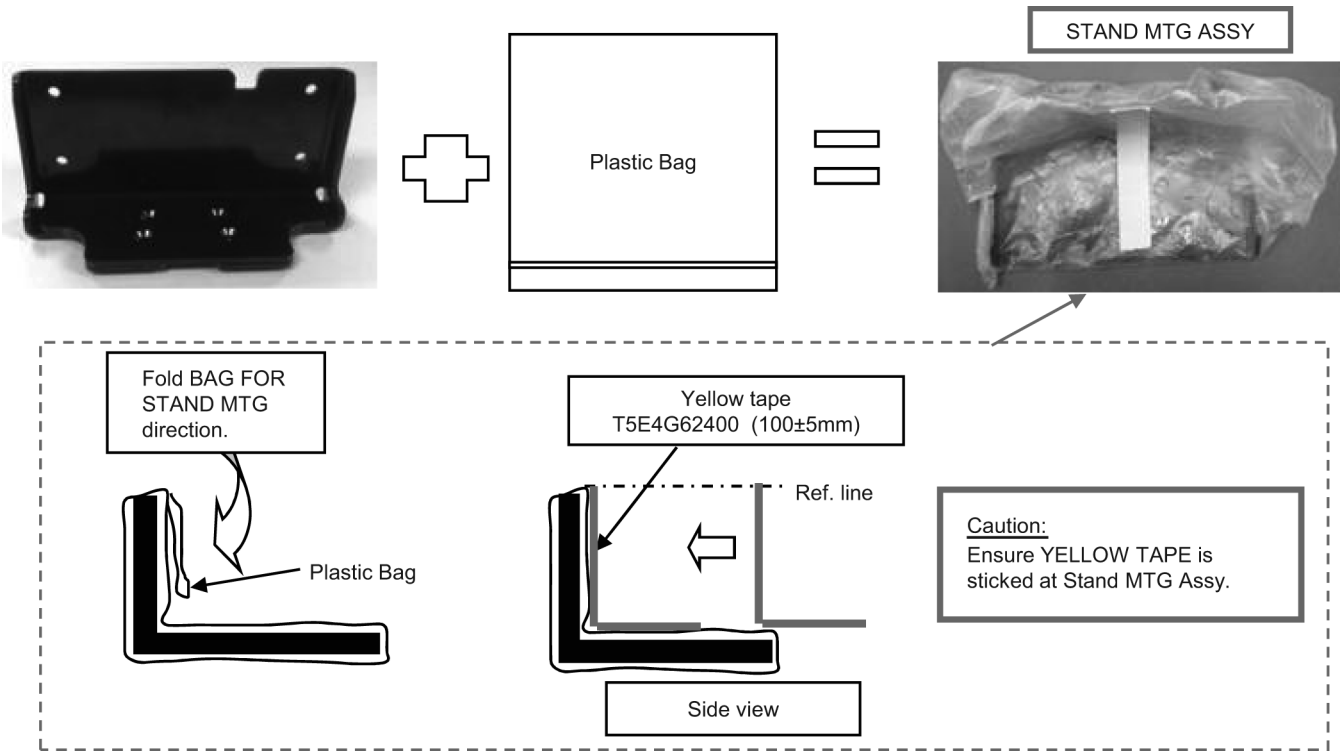
## 7.8. Back Cover Installation

1. Screw back cover.
2. Stick model name plate, rear av indication sheet at back cover.
3. Fix adjustment sheet at back cover.
4. Stick serial no label at back cover.

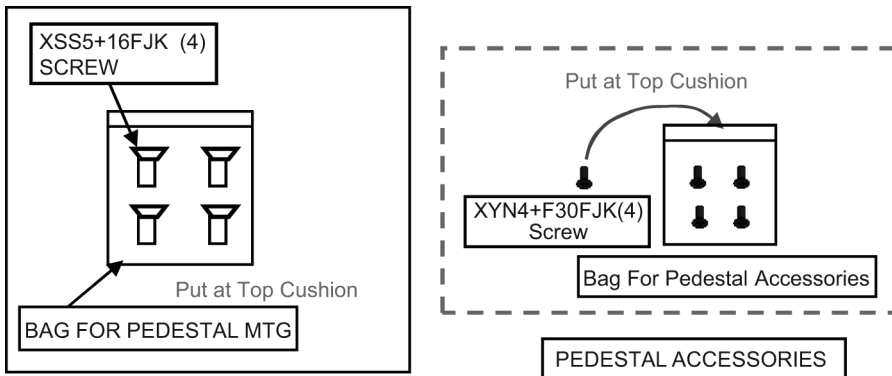


## 7.9. Stand MTG Assembly & Accessories Assembly

1. Wrapping stand mounting with plastic bag (Make by supplier).
2. Stick yellow tape.



Put all screw inside plastic bag.



## 8 Measurements and Adjustments

### 8.1. Voltage chart of A-board

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

POWER SUPPLY NAME	MEASUREMENT POINT	SPECIFICATION
SUB1.8V	TP8700	1.74 - 1.90 V
SUB1.2V	TP8100	1.18 - 1.32 V
SUB3.3V	TP8701	3.19 - 3.46 V
SUB5V	TP8702	4.75 - 5.25 V
STB5V	TP5400	4.9 - 5.1 V
SUB1.5V	TP8101	1.4 - 1.6 V

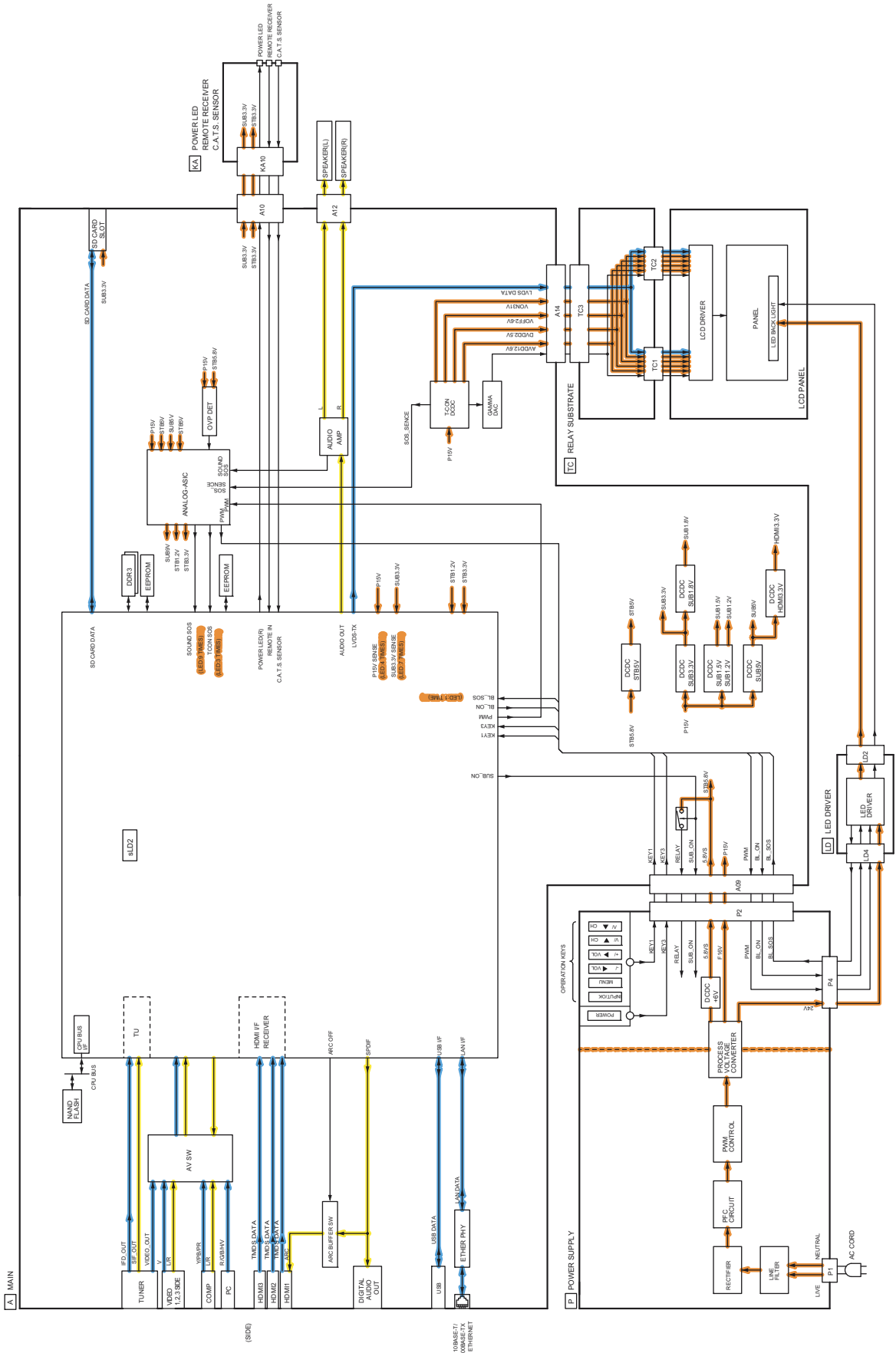
### 8.2. Voltage chart of P-board

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

VOLTAGE	TEST POINT	SPECIFICATION (V)	STATE
PFC390V	TP7201, 7202	$390 \pm 15$	Reception * HOT
LED24V	TP7514, 7515	$24 \pm 2$	Reception
DTV16V	TP7503, 7504	$16 \pm 1.5$	Reception
STBY6V	TP7501, 7502	$5.8 \pm 0.8$	Reception
		$5.8 \pm 0.8$	Stand by

# 9 Block Diagram

## 9.1. Main Block Diagram

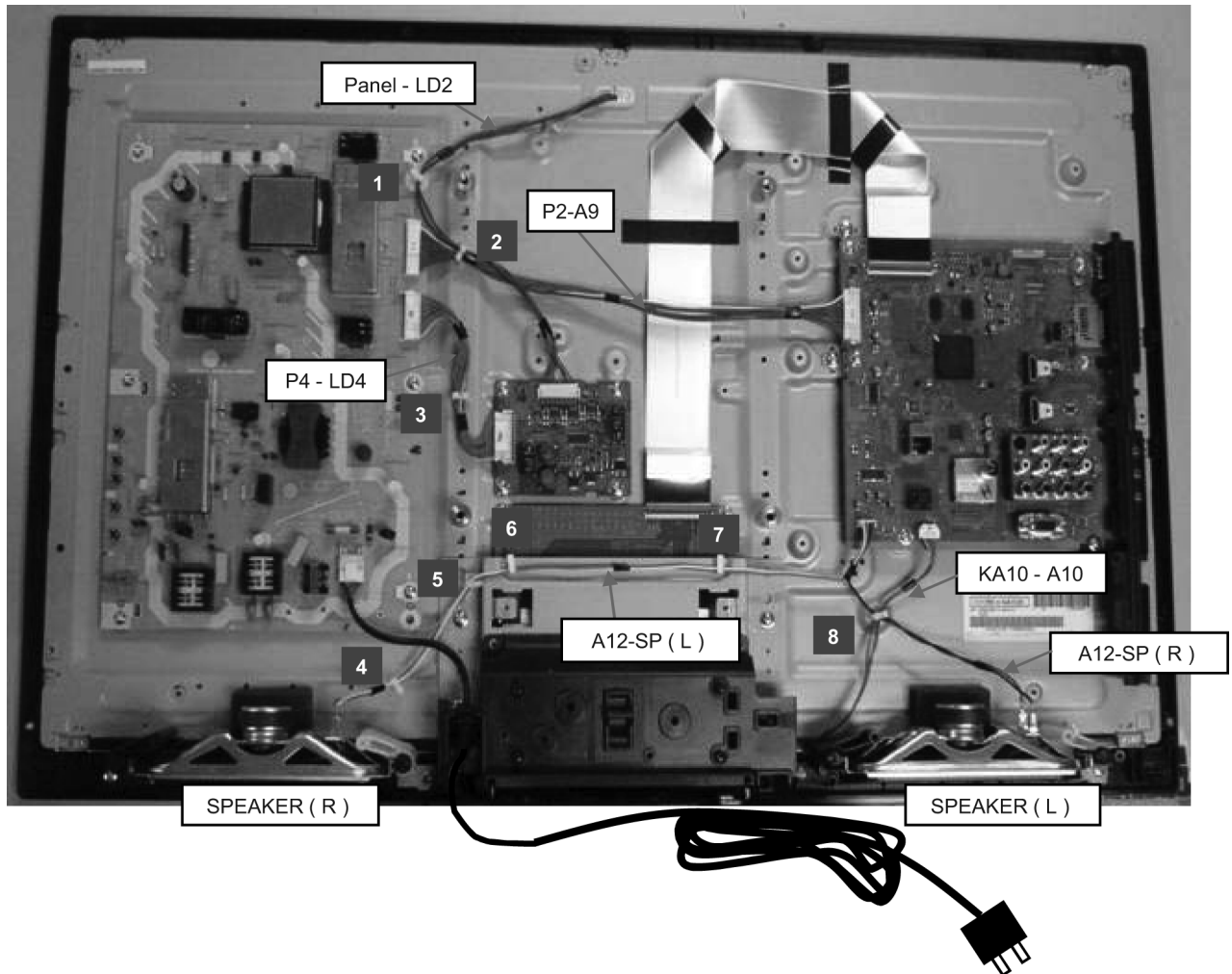




# 10 Wiring Connection Diagram

## 10.1. Wire Dressing

1. Connect all wire connector to connector.
2. Dressing wire follow diagram.









Wire		Clamper							
		1	2	3	4	5	6	7	8
No.1	A09 - P2		●						
No.2	Panel - LD2	●	●						
No.3	P4 - LD4			●					
No.4	A10 - KA10								●
No.5	A11 - SP (L)								●
No.6	A11 - SP (R)				●	●	●	●	

# 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.

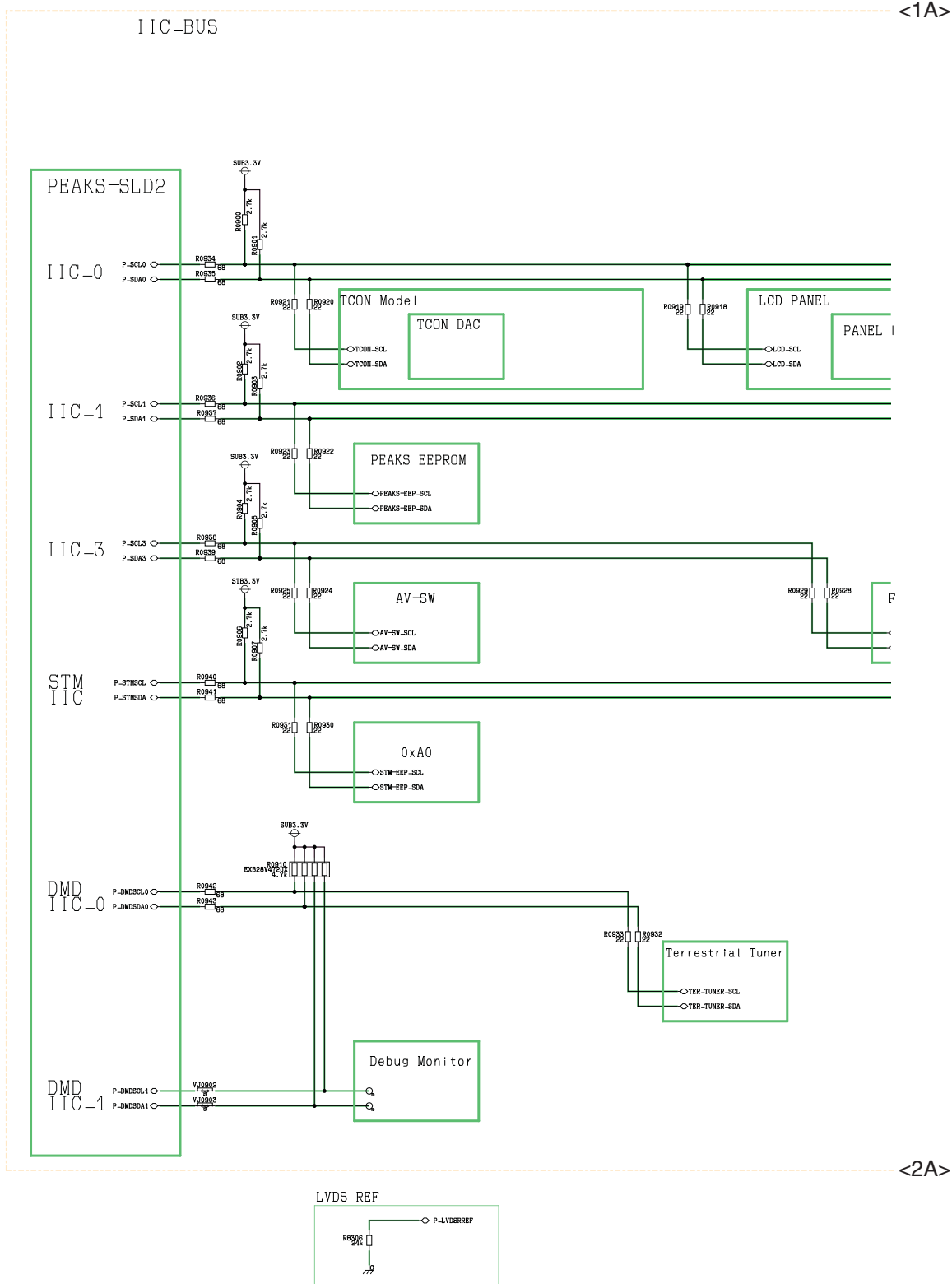
**Remarks:**

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

### 11.2.1. A Board - Sheet : 002 (1 / 2)

Sheet No. 002

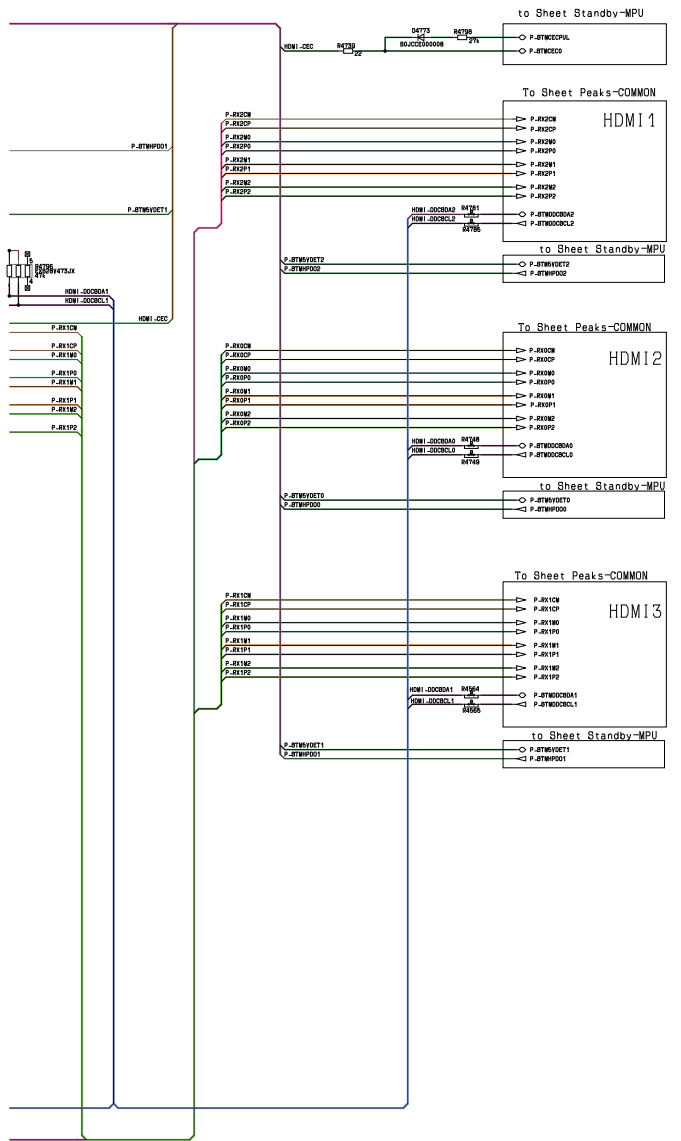




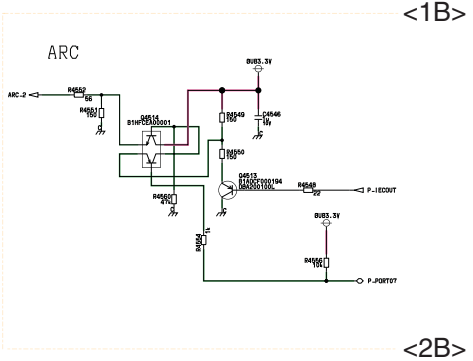


11.2.4. A Board - Sheet : 003 ( 2 / 5 )

<1A>



<2A>

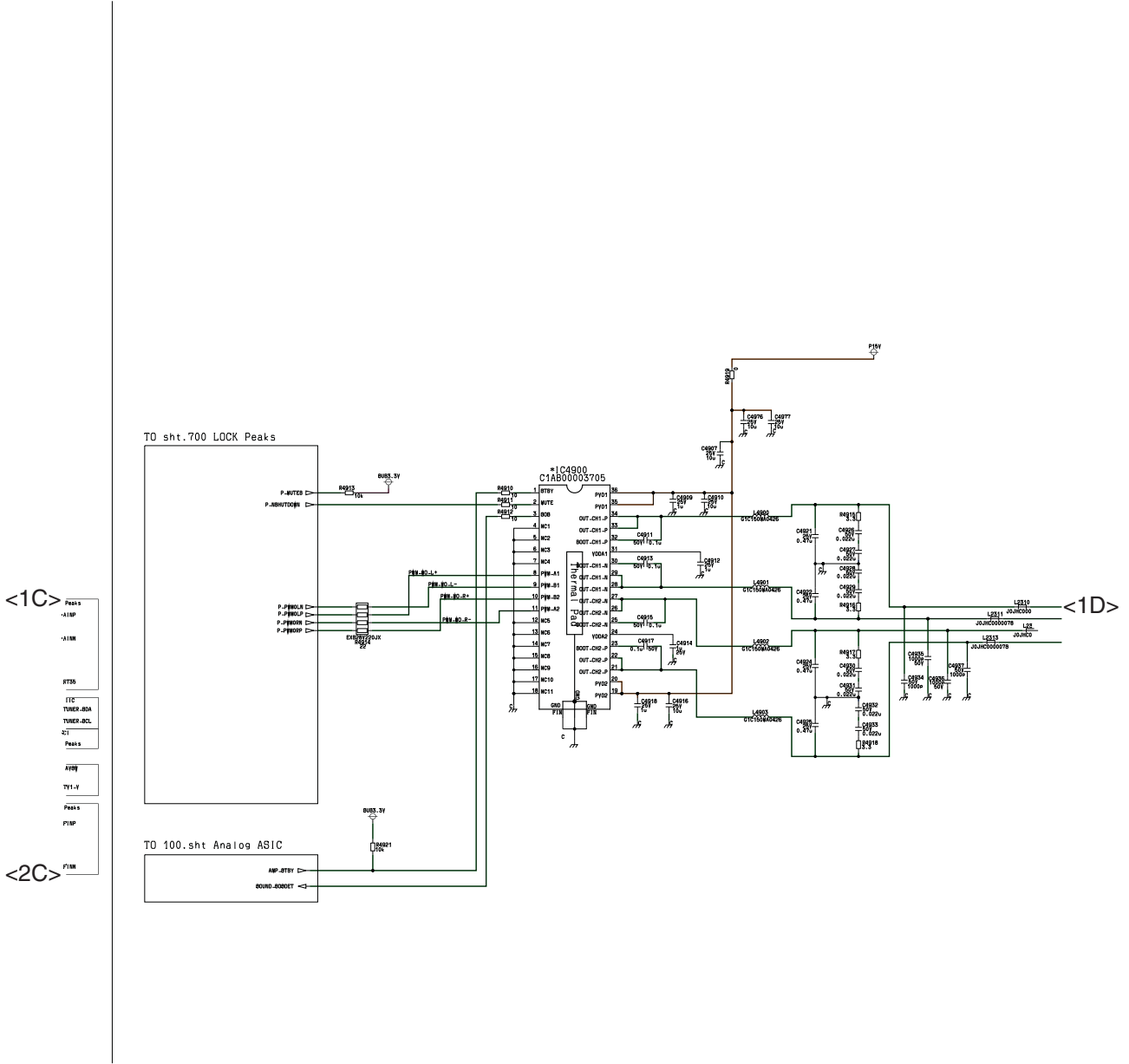


<1B>

<2B>



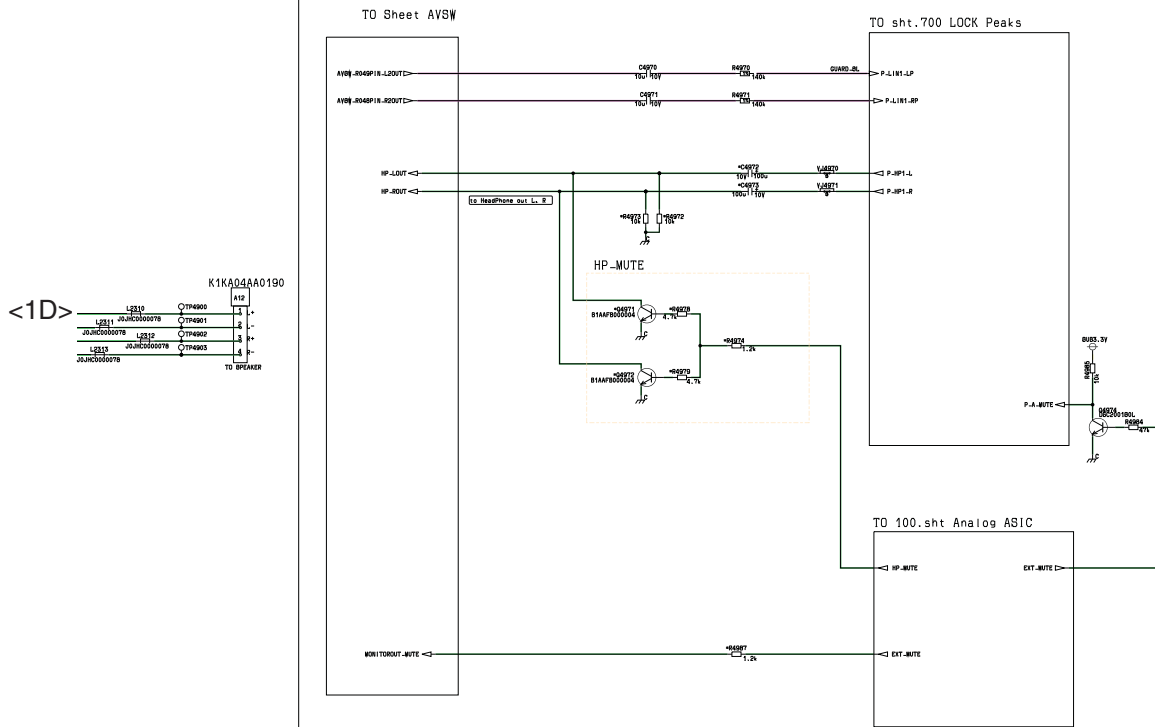
11.2.6. A Board - Sheet : 003 ( 4 / 5 )





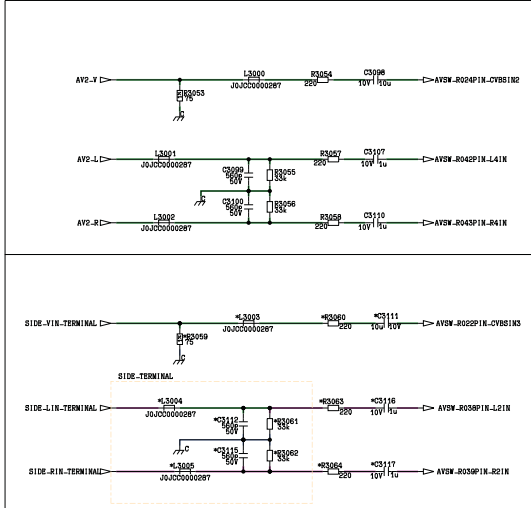
11.2.7. A Board - Sheet : 003 ( 5 / 5 )

Sheet No.003



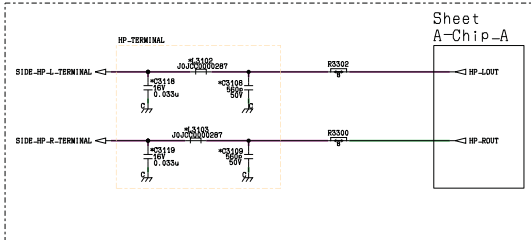
11.2.8. A Board - Sheet : 004 ( 1 / 2 )

VIDEO/AUDIO IN



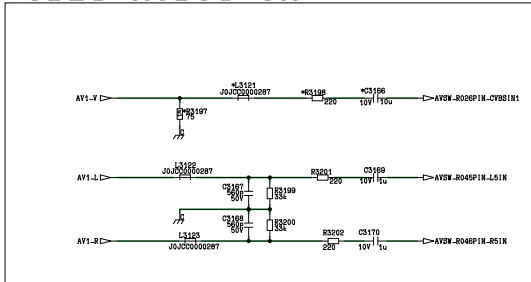
OPT-SPDIF-TERMINAL <- R3070 100 P-12OUT7

HP

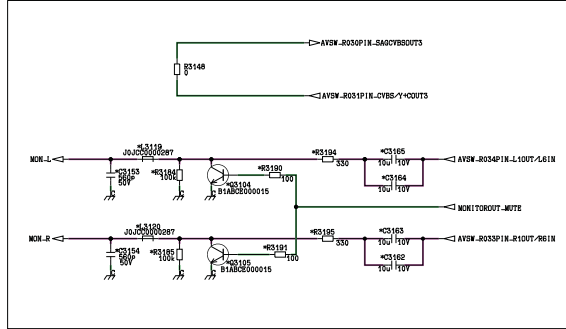


Sheet A-Chip-A

VIDEO/AUDIO IN

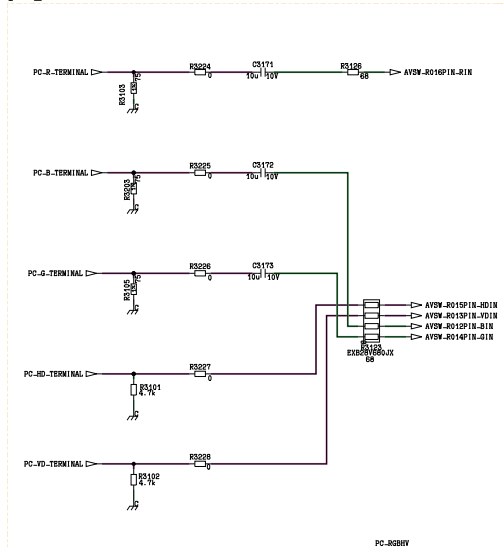


MONITOR OUT



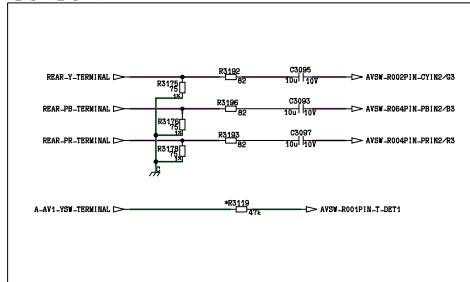
<1A>

PC



PC-ROBOT

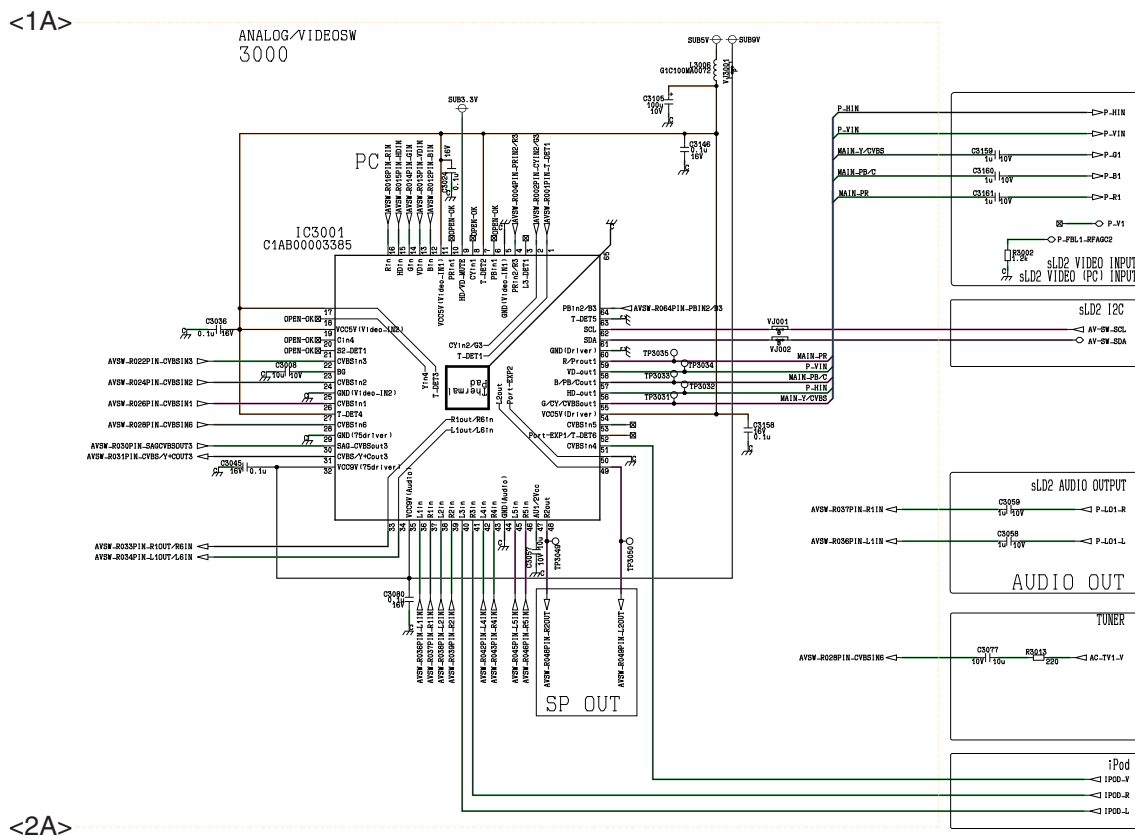
YPbPr



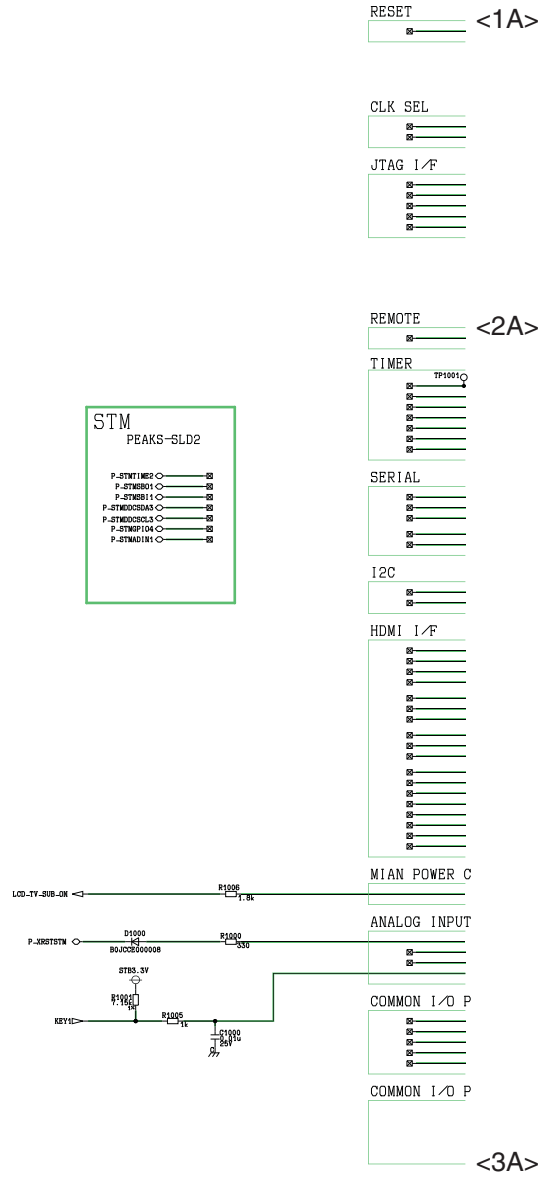
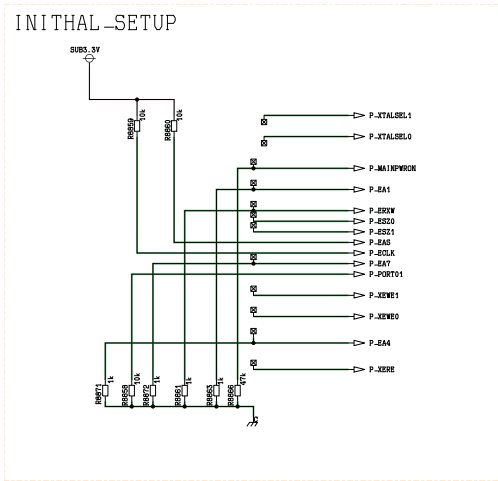
<2A>

11.2.9. A Board - Sheet : 004 ( 2 / 2 )

SHEET No. 004



11.2.10. A Board - Sheet : 005 ( 1 / 3 )





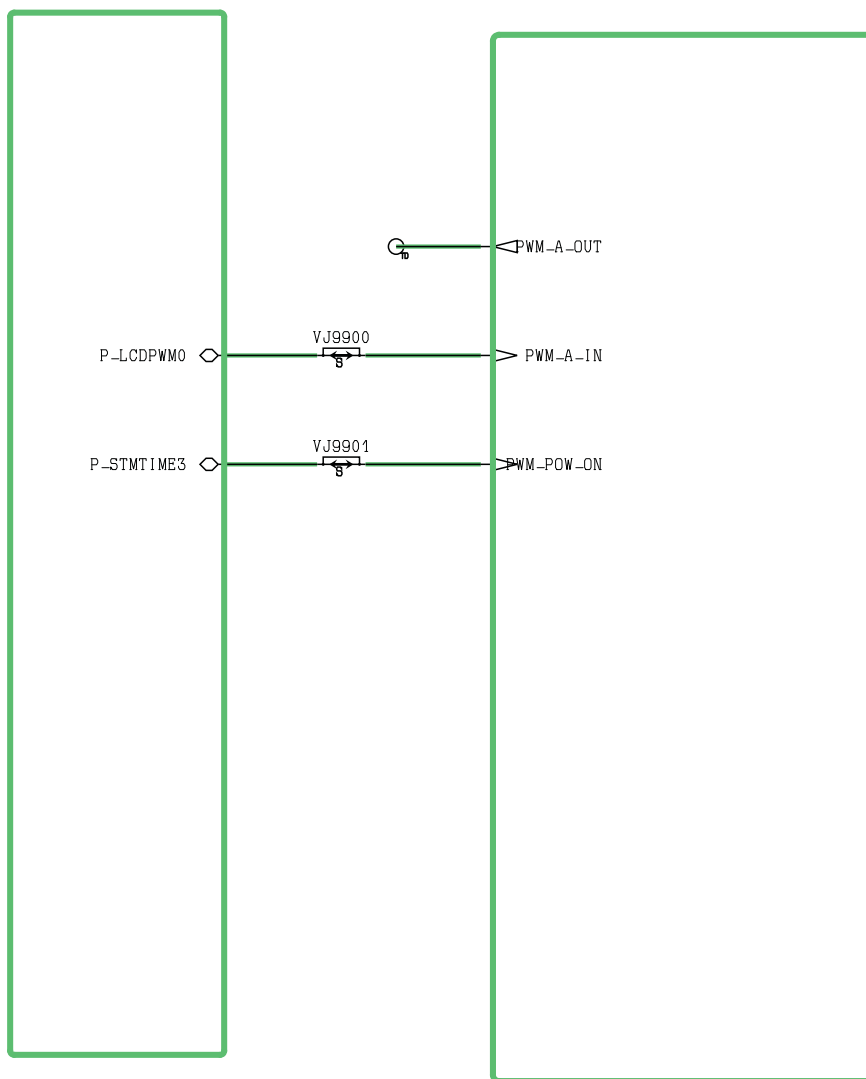


11.2.13. A Board - Sheet : 008 (1 / 1)

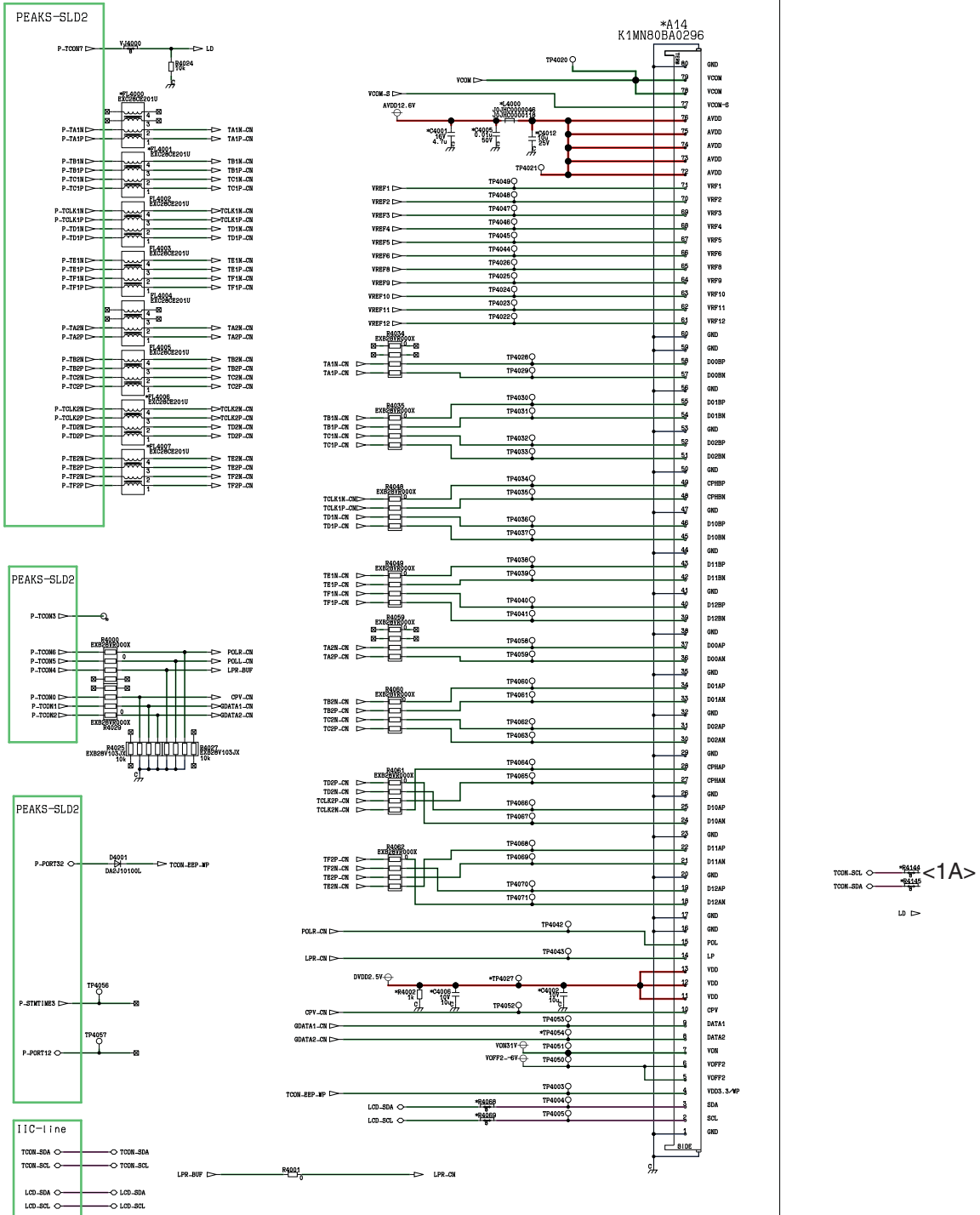
SHEET No. 008

IC8000  
STM

IC5000  
AN34043A  
Analog ASIC

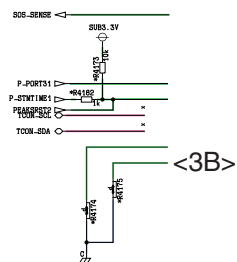
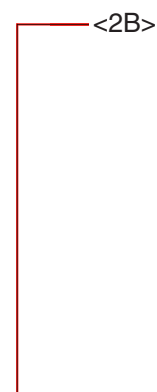
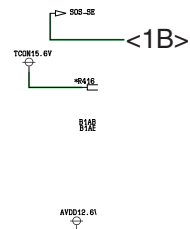
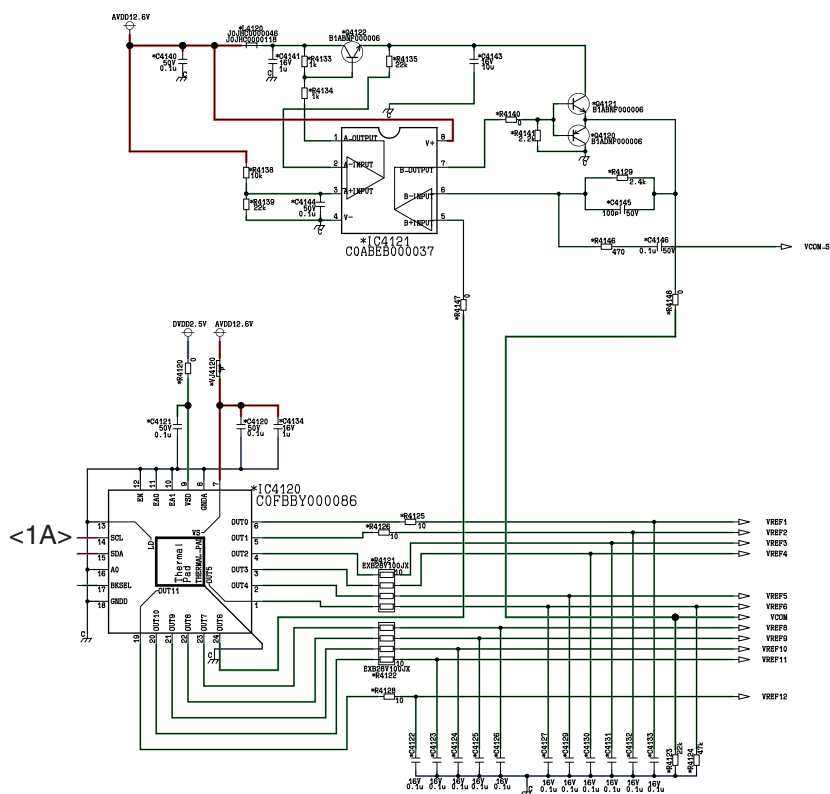


11.2.14. A Board - Sheet : 009 ( 1 / 3 )

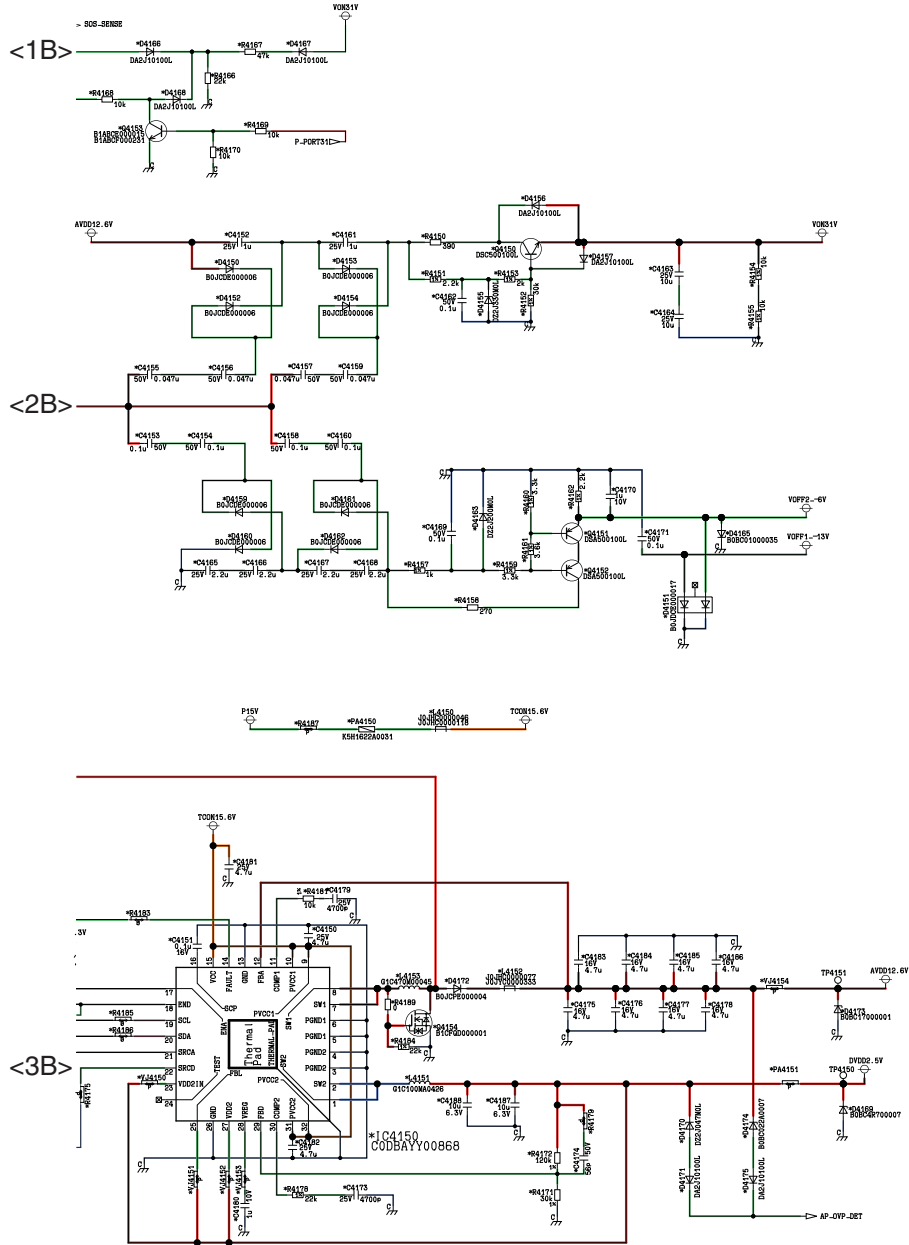




11.2.15. A Board - Sheet : 009 ( 2 / 3 )



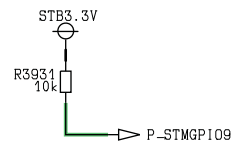
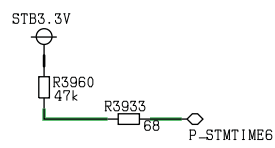
11.2.16. A Board - Sheet : 009 (3 / 3)



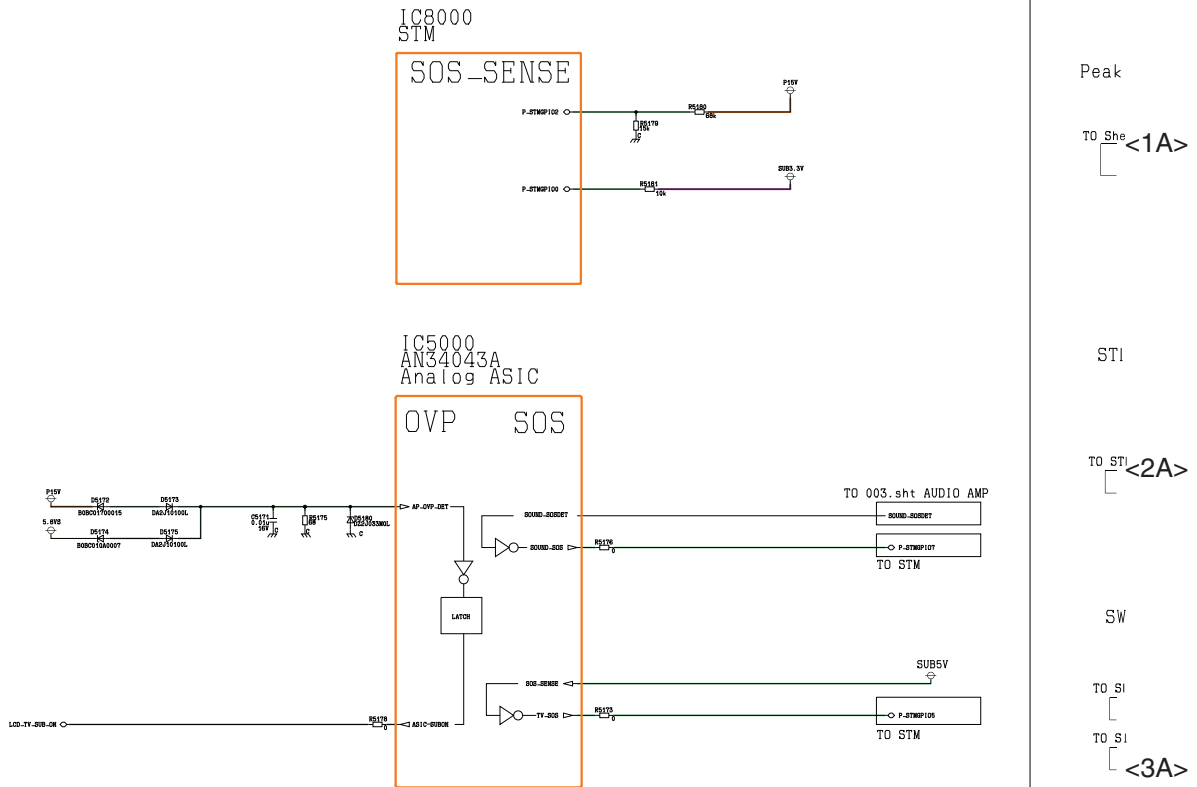
11.2.17. A Board - Sheet : 010 (1 / 1)

TAK1-IPOD

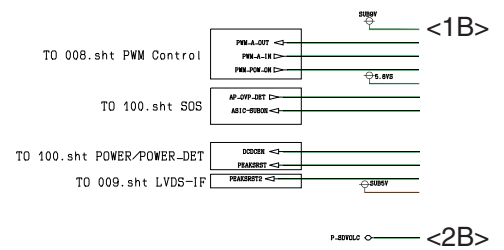
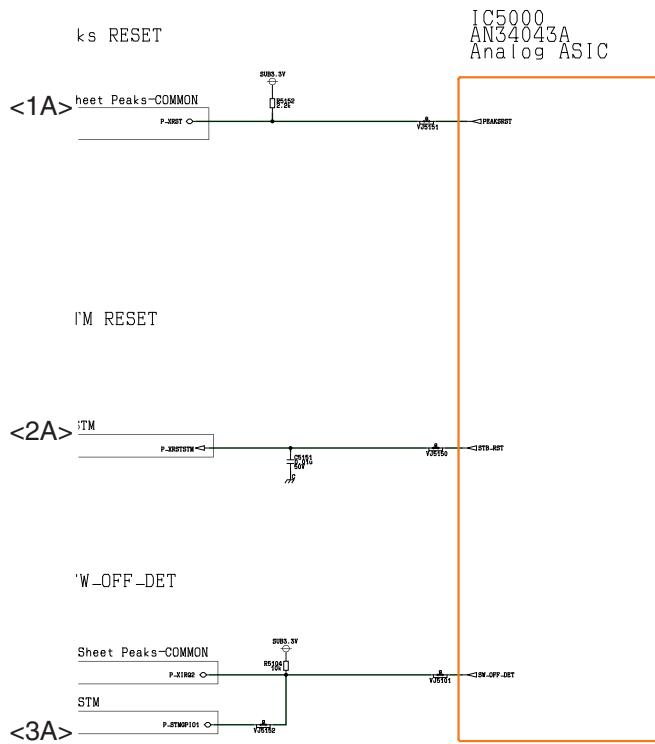
Sheet No. 010



11.2.18. A Board - Sheet : 100 ( 1 / 3 )

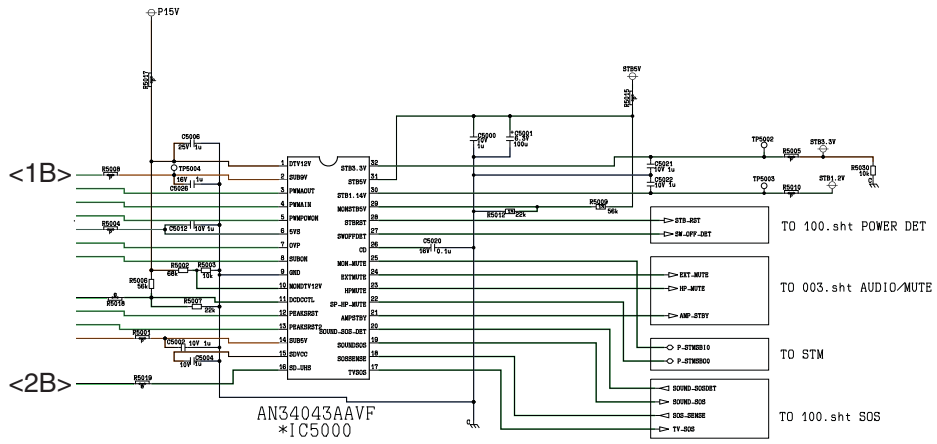


11.2.19. A Board - Sheet : 100 ( 2 / 3 )

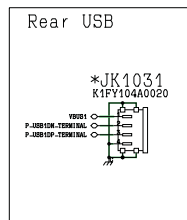
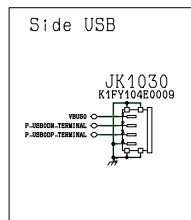
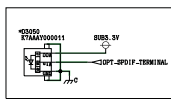
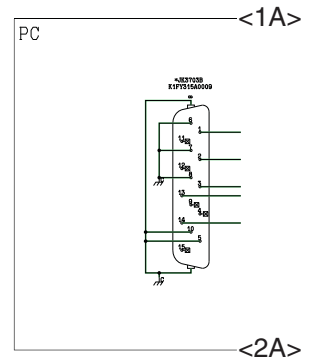
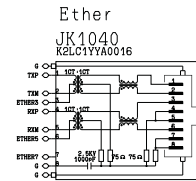
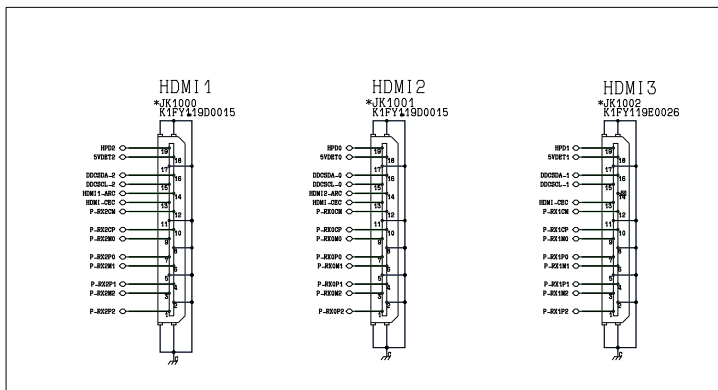
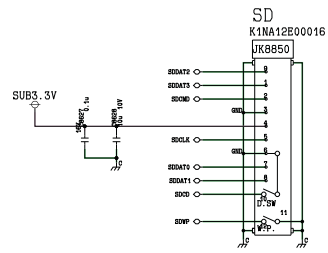


11.2.20. A Board - Sheet : 100 (3 / 3)

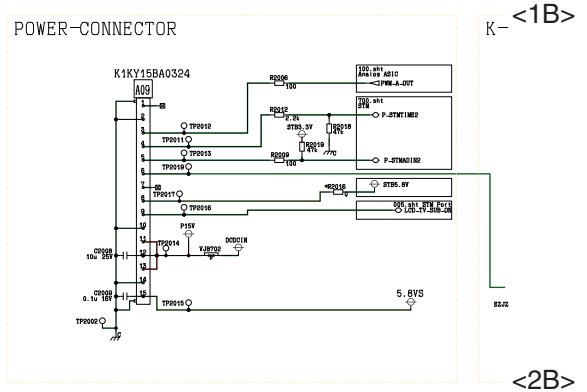
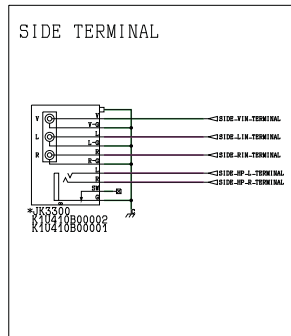
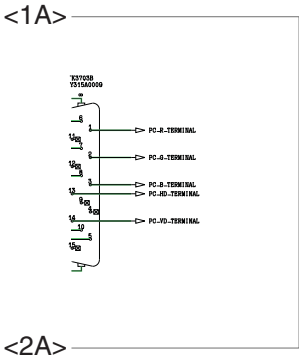
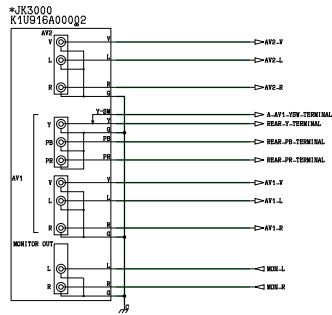
SHEET No. 100



11.2.21. A Board - Sheet : 101 ( 1 / 3 )



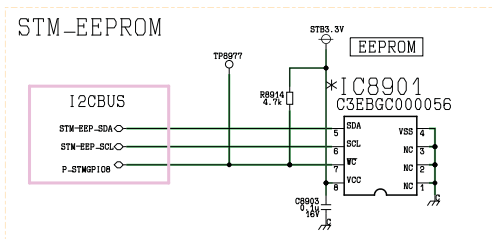
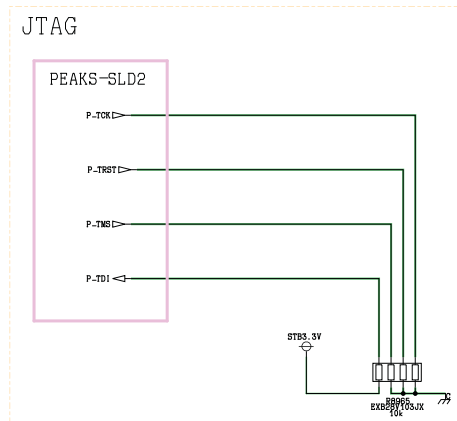
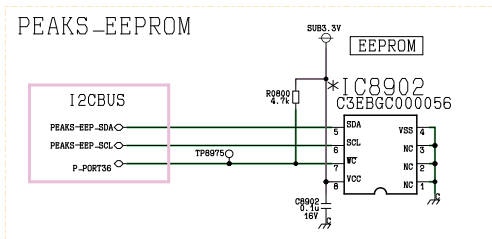
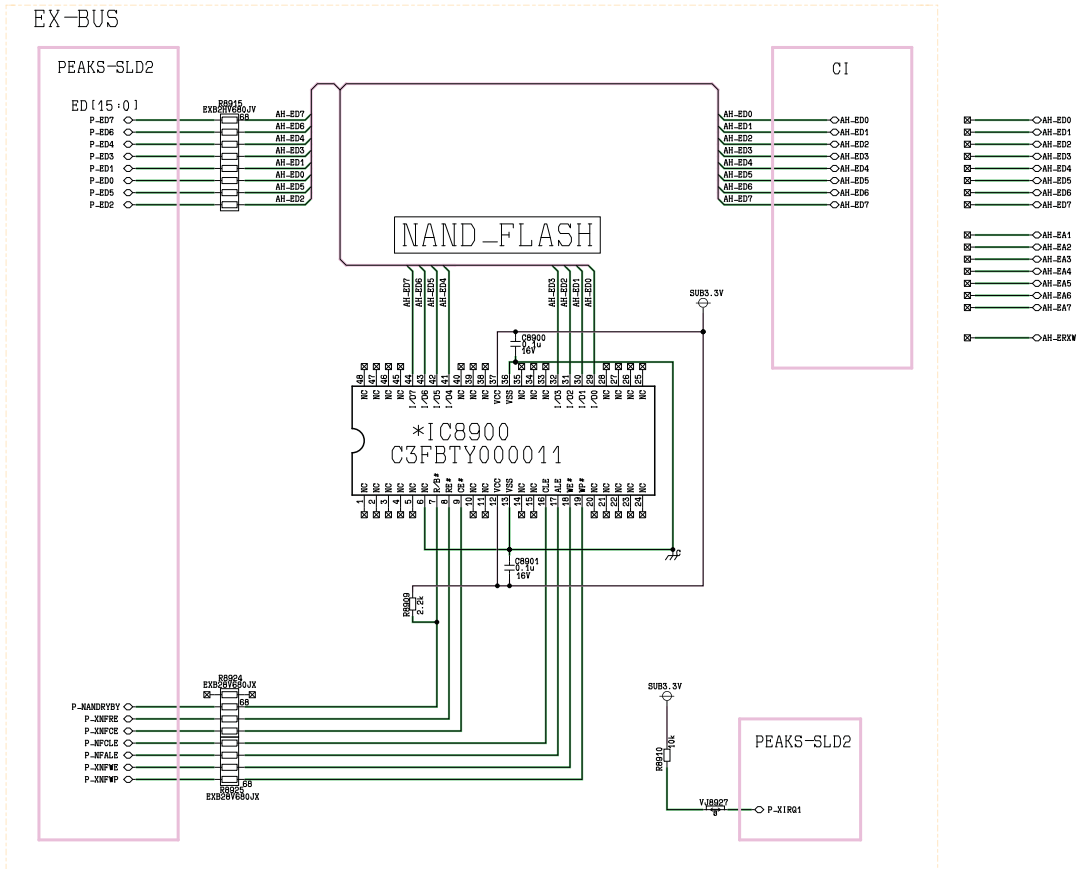
11.2.22. A Board - Sheet : 101 ( 2 / 3 )





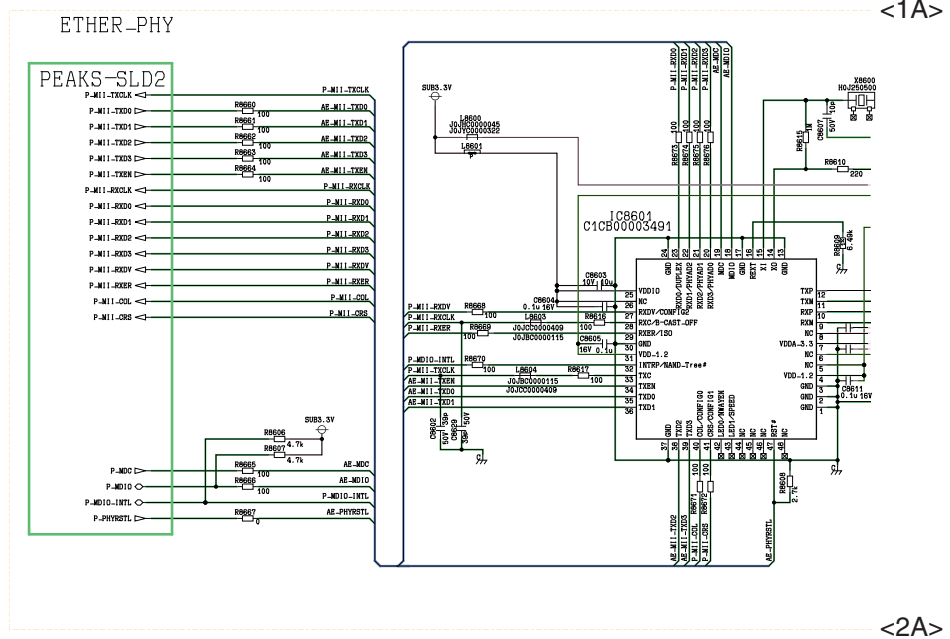


11.2.24. A Board - Sheet : 300 (1 / 1)



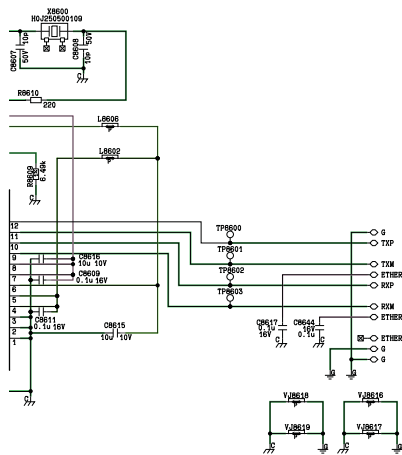
SHEET No. 300

11.2.25. A Board - Sheet : 301 ( 1 / 3 )



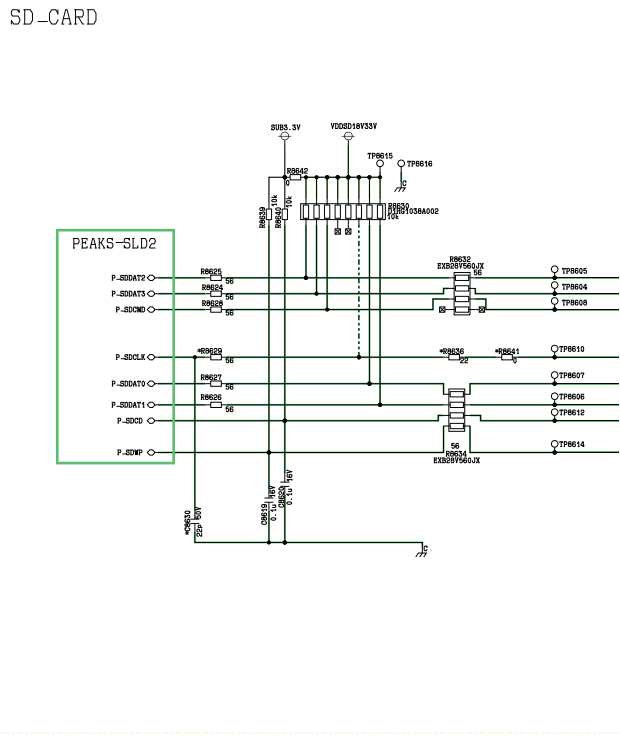
11.2.26. A Board - Sheet : 301 ( 2 / 3 )

<1A>



<2A>

<1B>

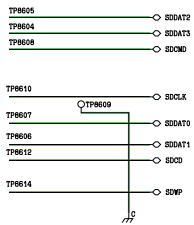


<2B>

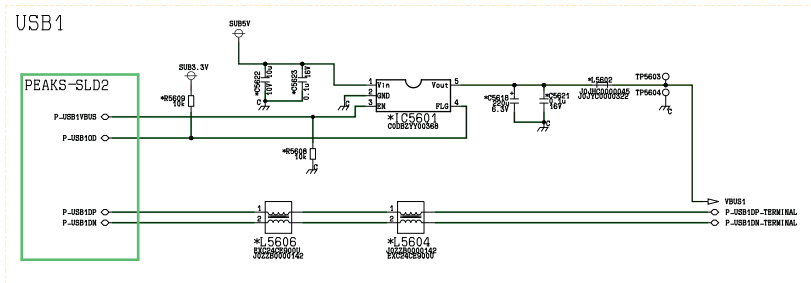
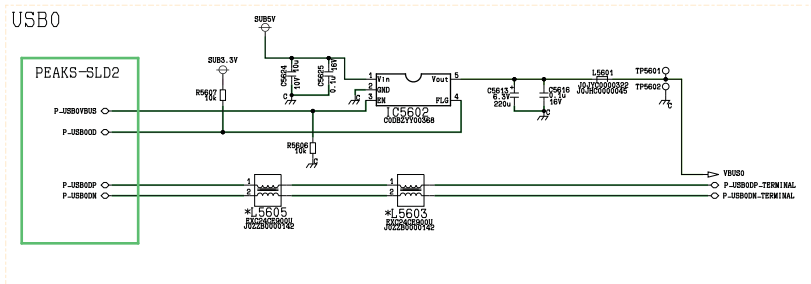
11.2.27. A Board - Sheet : 301 ( 3 / 3 )

SHEET No. 301

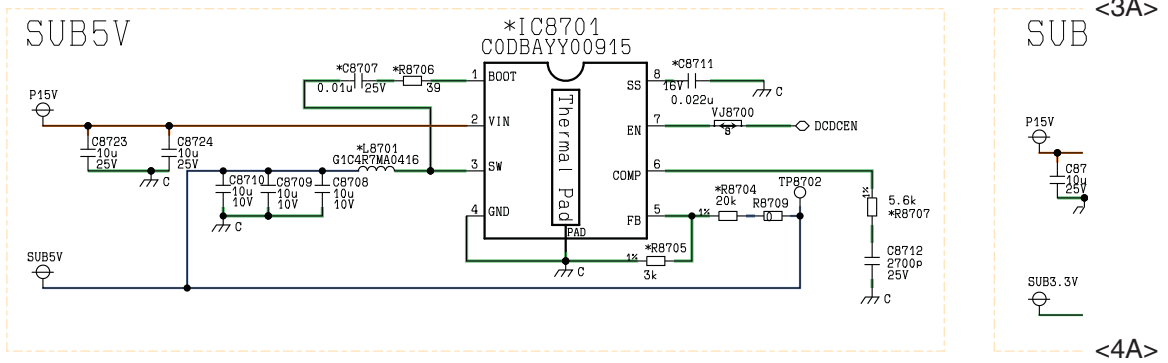
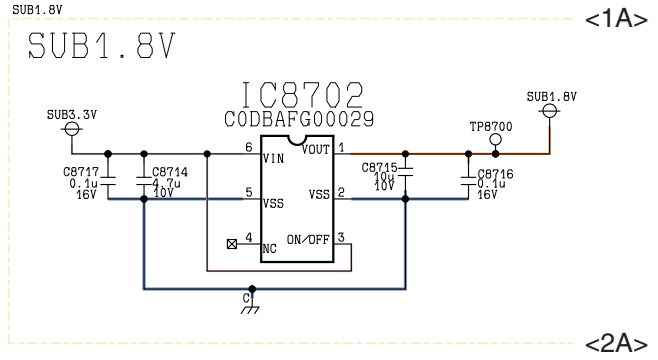
<1B>



<2B>



11.2.28. A Board - Sheet : 302 ( 1 / 2 )



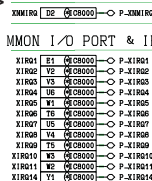




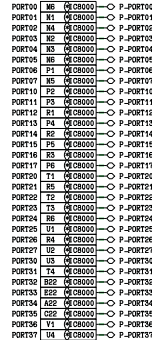


11.2.31. A Board - Sheet : 700 ( 2 / 2 )

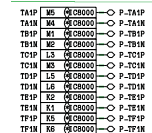
<1A> I IRQ



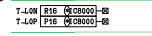
<2A> MMON I/O PORT



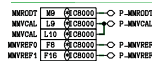
DS I/F



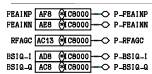
<3A> ST



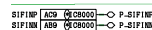
R3 REF



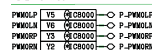
NER I/F



F I/F

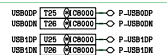


DIO PWM

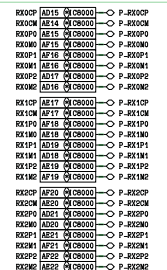


<4A>

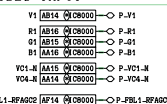
USB I/F



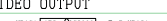
HDMI I/F



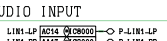
VIDEO INPUT



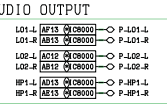
VIDEO OUTPUT



AUDIO INPUT

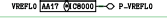


AUDIO OUTPUT

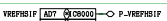


LOCK/SLD2

V-ADC REF



SIF-ADC REF (DMD)



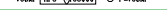
A-ADC REF



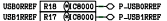
V-DAC REF



USB REF



LVDS REF

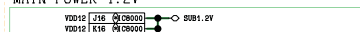


LOCK/SLD2

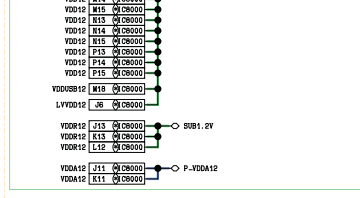
STM POWER 3.3V



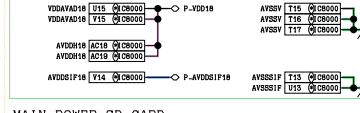
STM POWER 1.2V



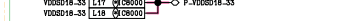
MAIN POWER 1.2V



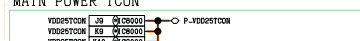
MAIN POWER 1.8V



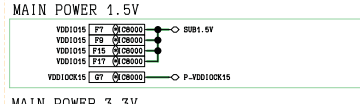
MAIN POWER SD-CARD



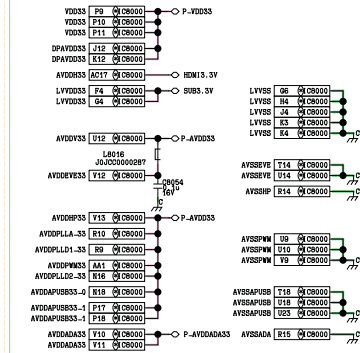
MAIN POWER TC0N



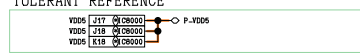
MAIN POWER 1.5V



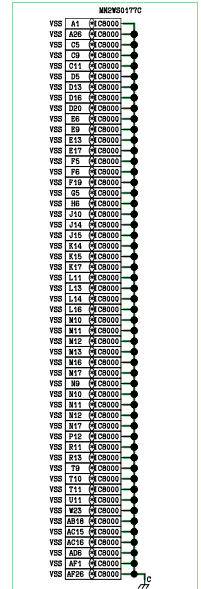
MAIN POWER 3.3V



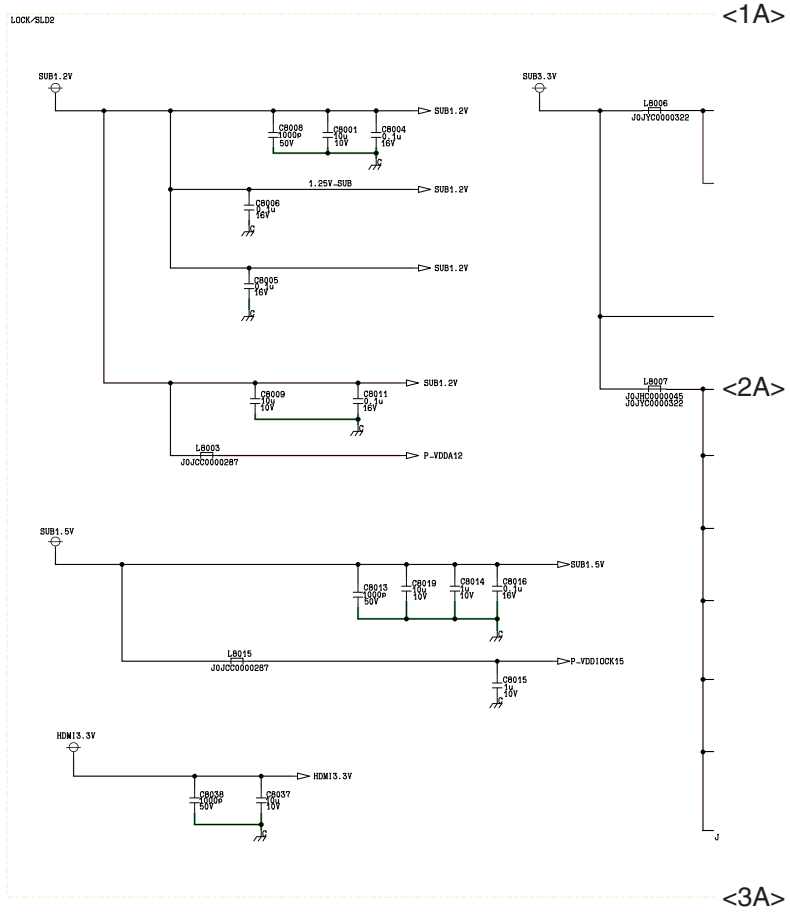
TOLERANT REFERENCE



VSS GND



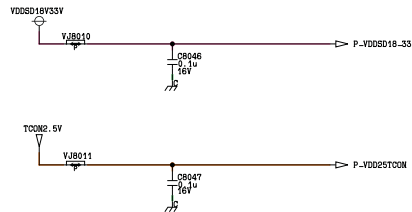
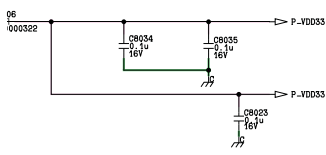
11.2.32. A Board - Sheet : 701 (1 / 2)



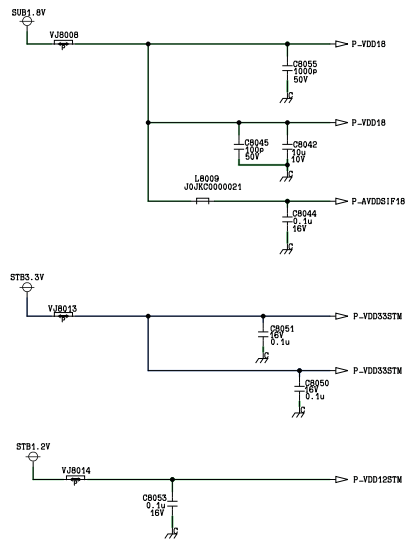
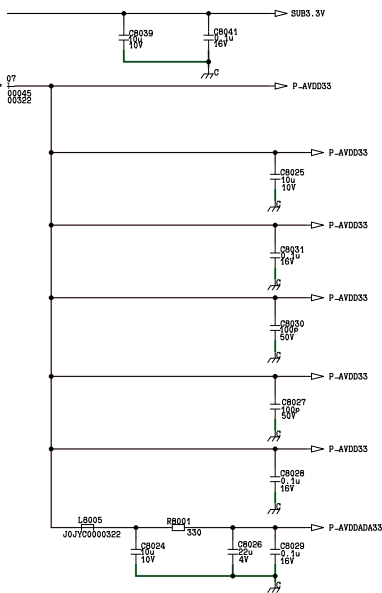
11.2.33. A Board - Sheet : 701 ( 2 / 2 )

# Sheet No. 701

<1A>



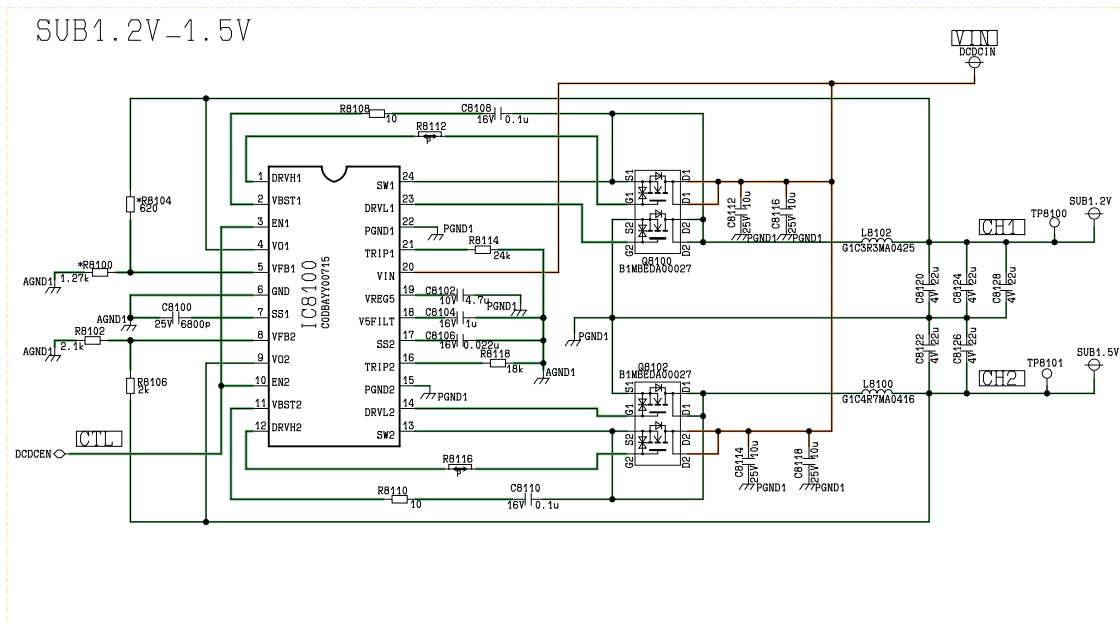
<2A>



<3A>

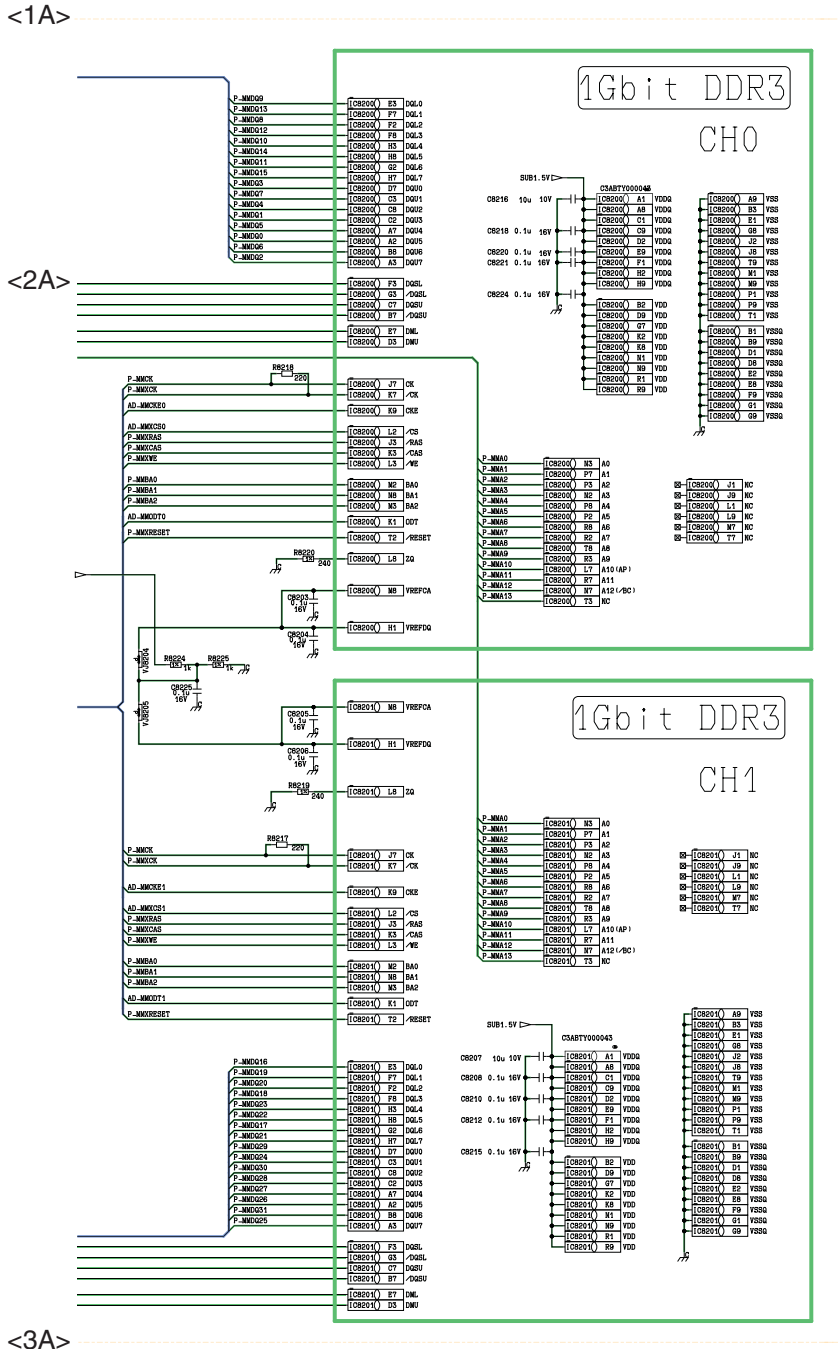
11.2.34. A Board - Sheet : 702 (1 / 1)

# Sheet No. 702

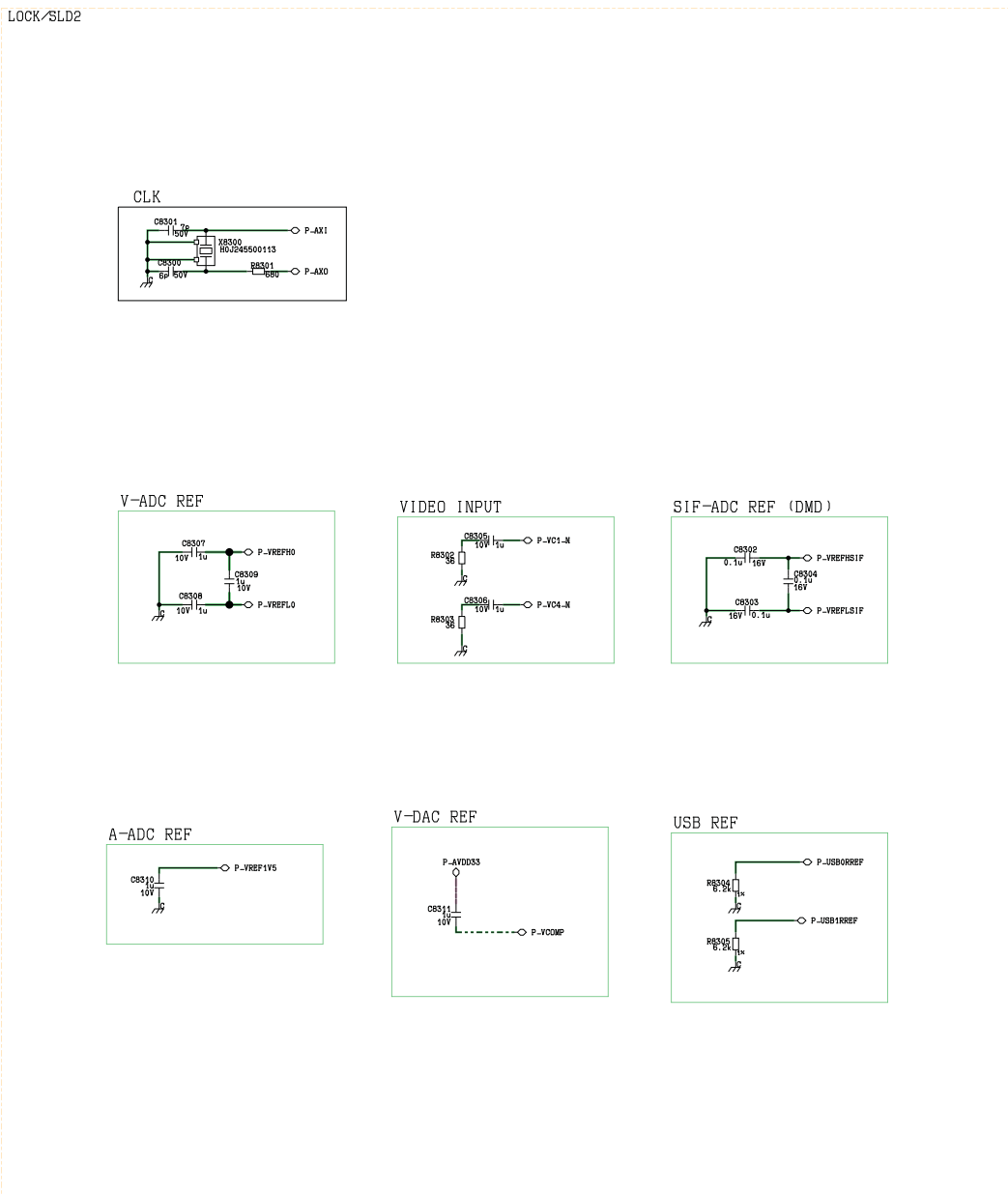




11.2.36. A Board - Sheet : 703 ( 2 / 2 )

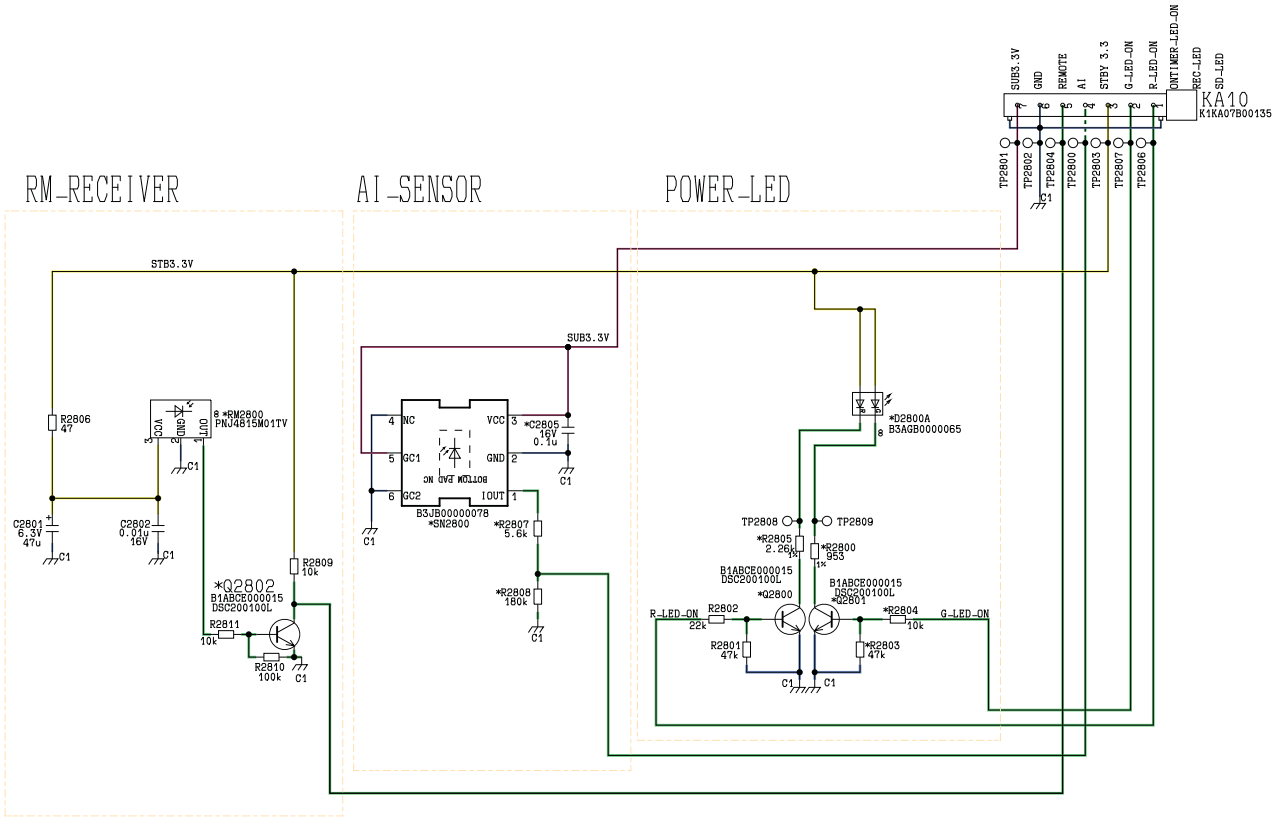


11.2.37. A Board - Sheet : 704 ( 1 / 1 )



Sheet No. 704

# 11.3. KA Board

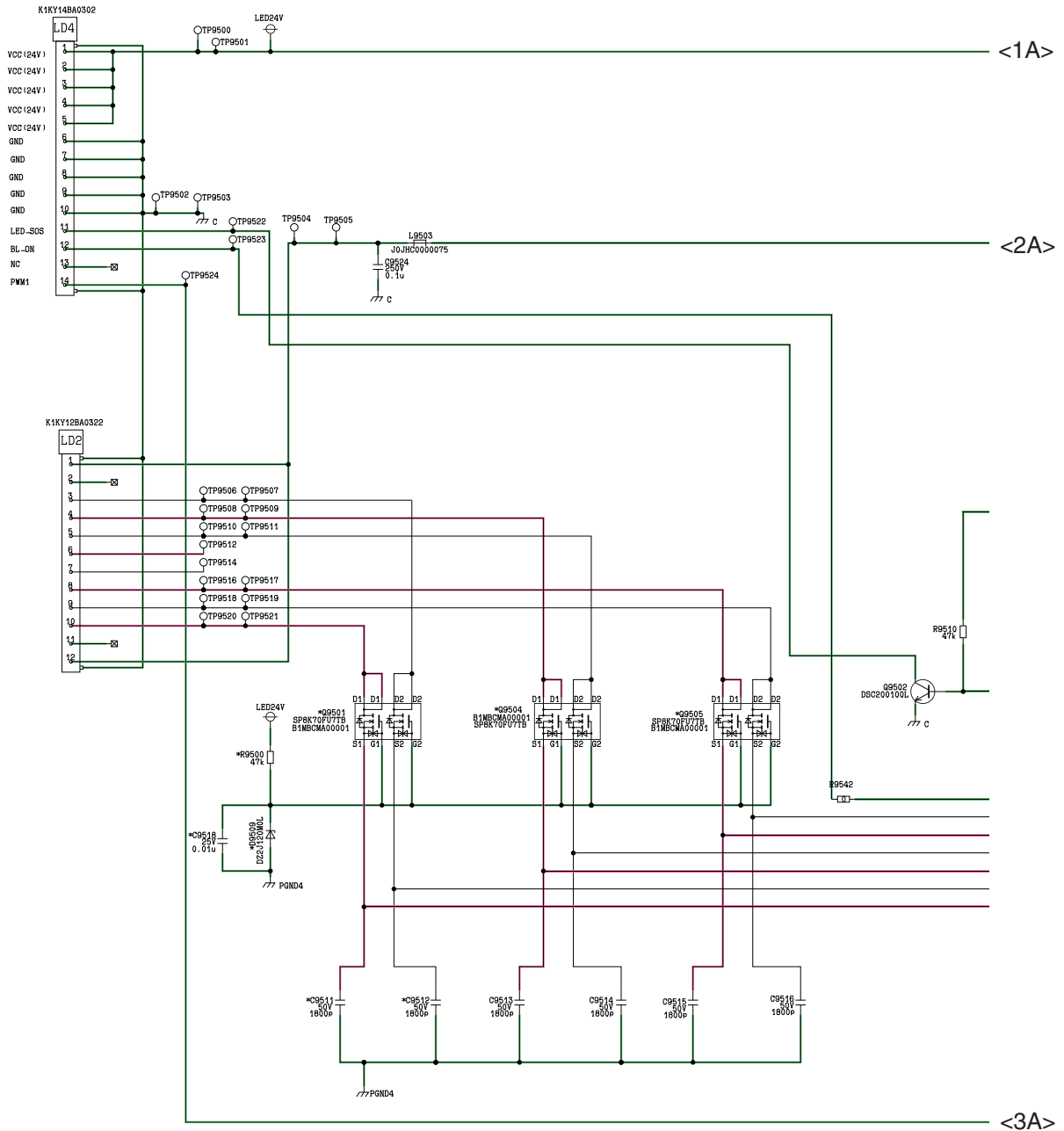


KA BOARD  
TNPA5378BA



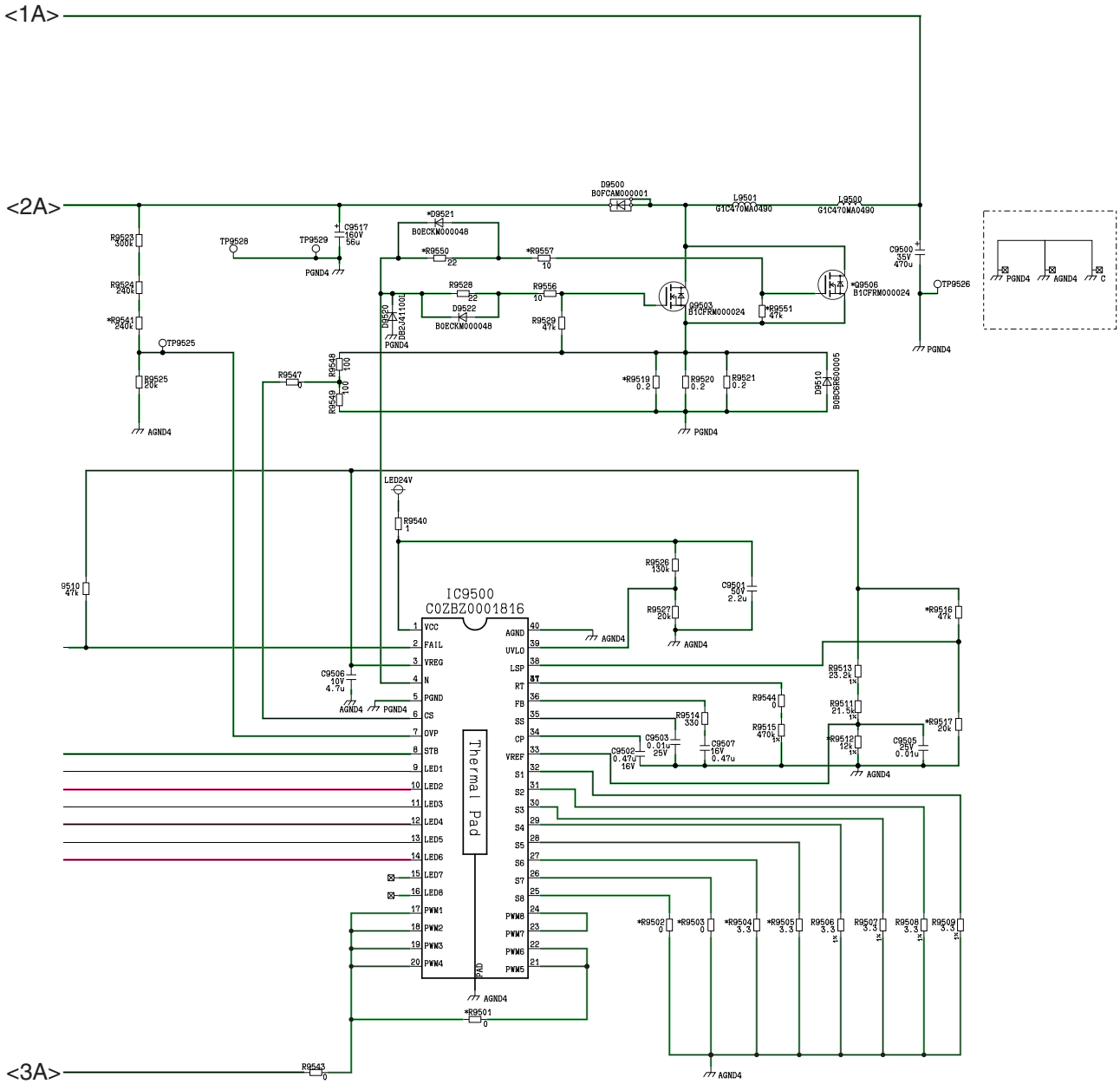
# 11.4. LD Board

## 11.4.1. LD Board (1 / 2)



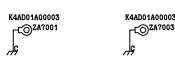
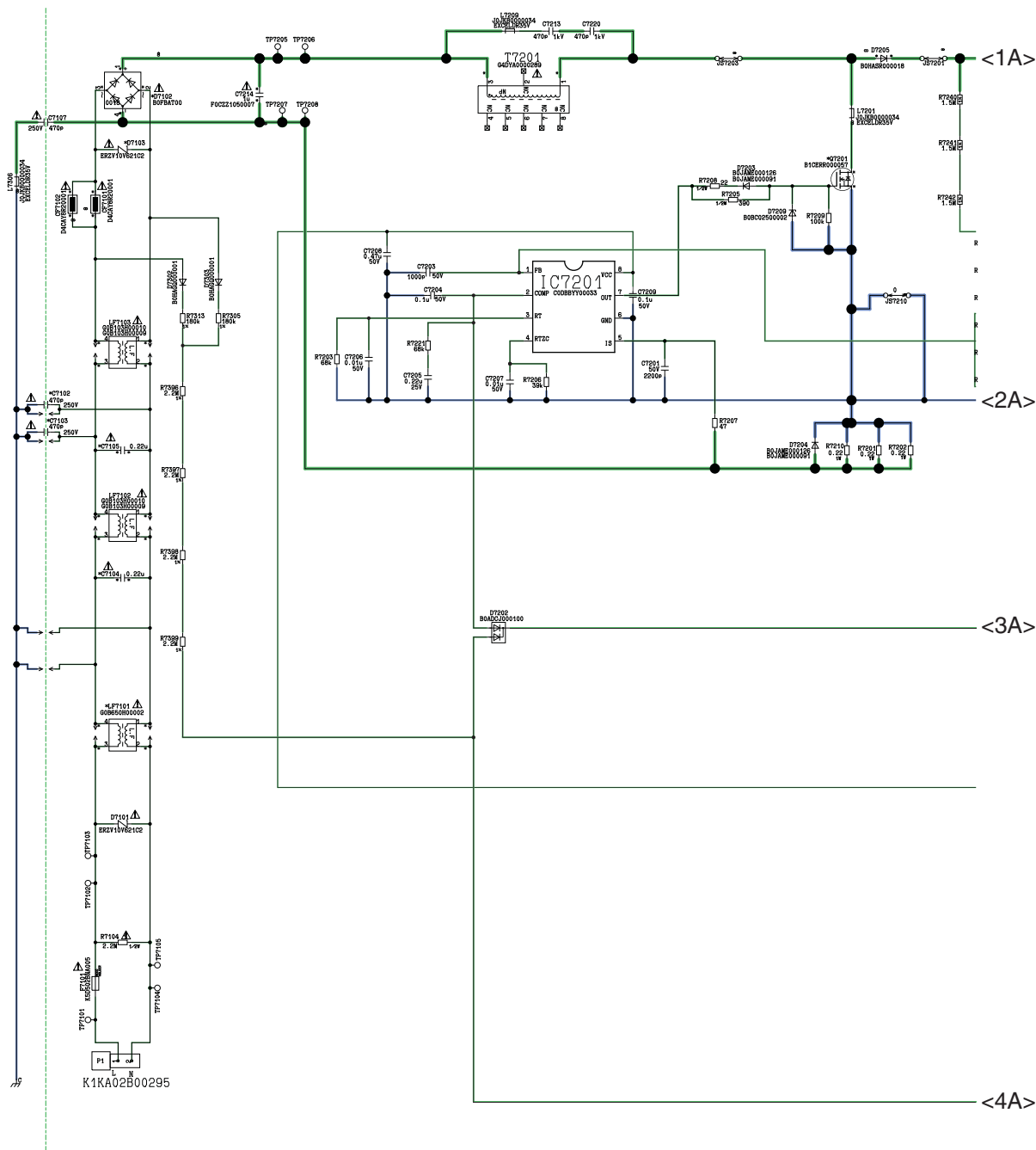
11.4.2. LD Board (2 / 2)

# TNPA5377AL LD BOARD

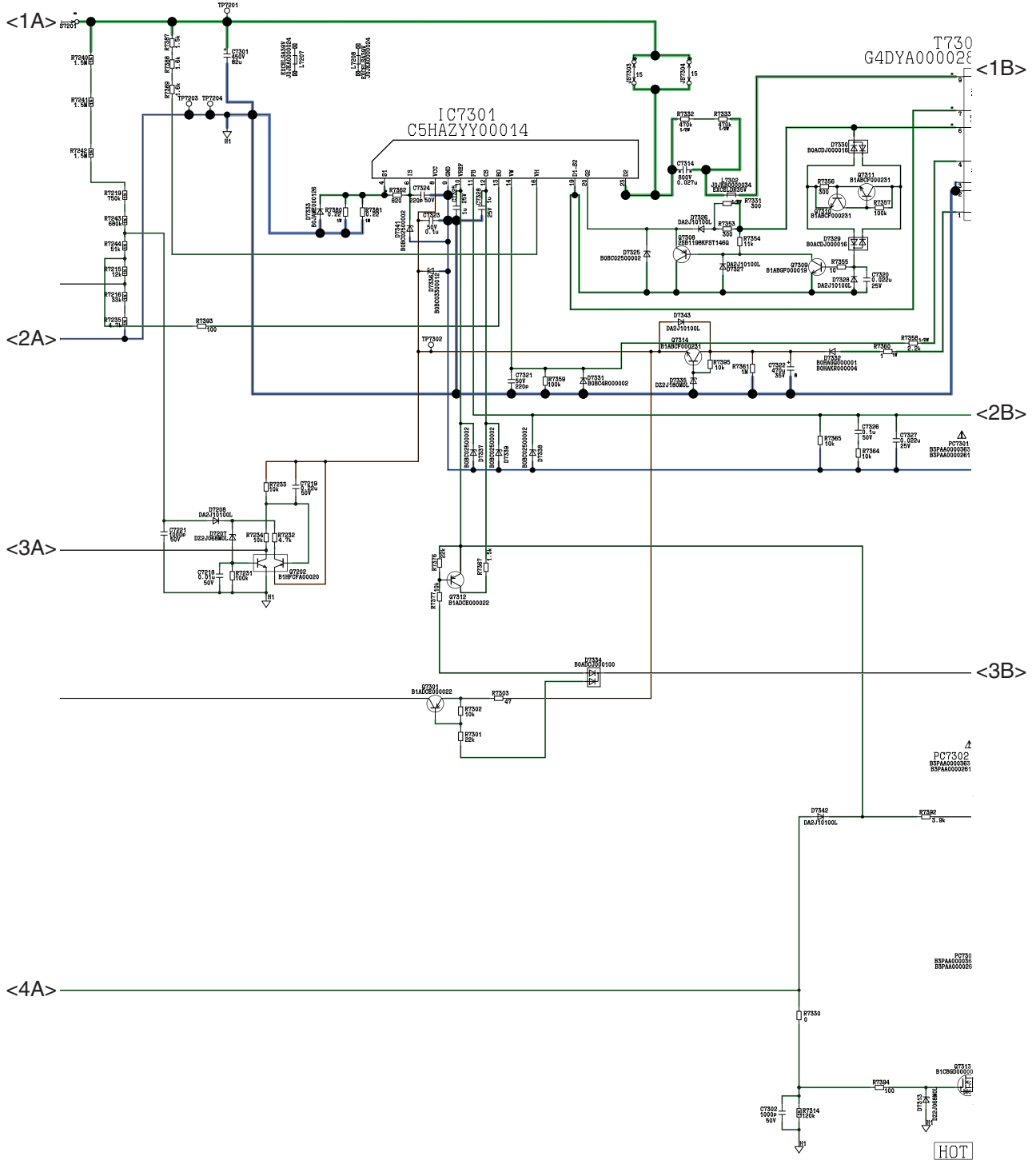


# 11.5. P Board

## 11.5.1. P Board (1 / 3)



### 11.5.2. P Board (2 / 3)



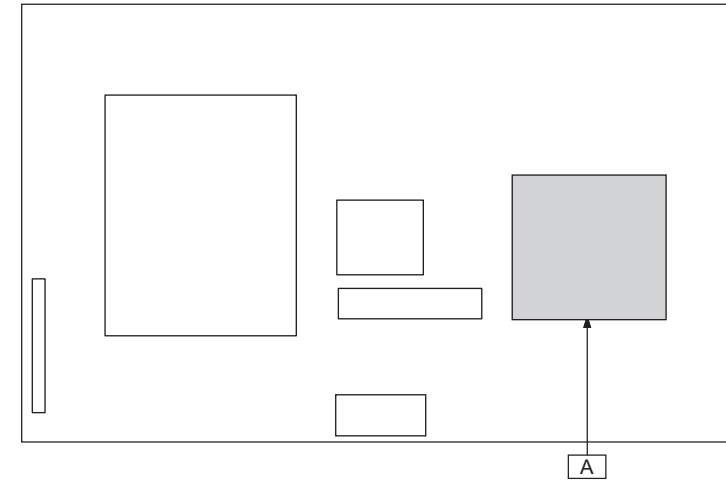
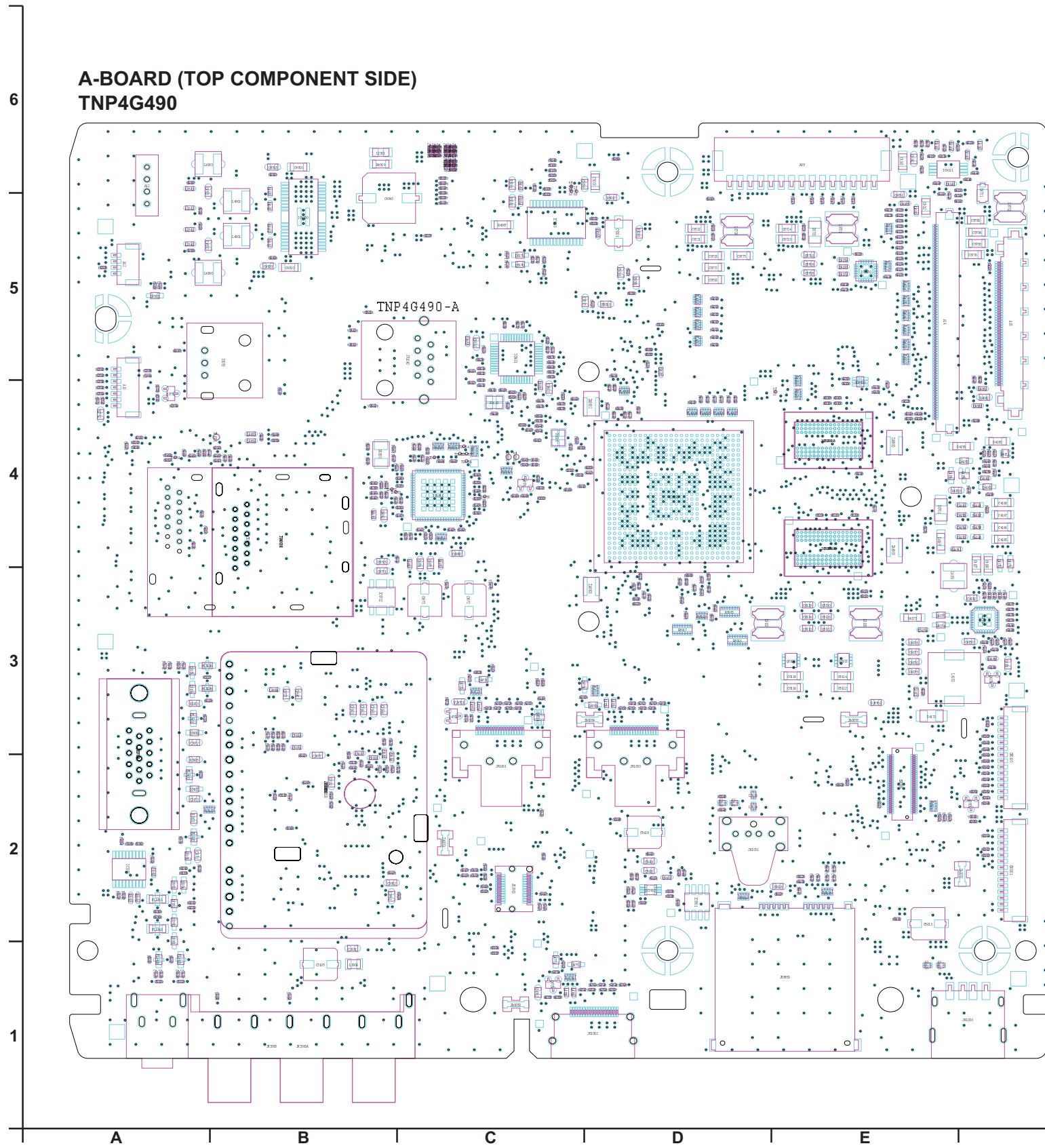






# 12 Printed Circuit Board

## 12.1. A-BOARD

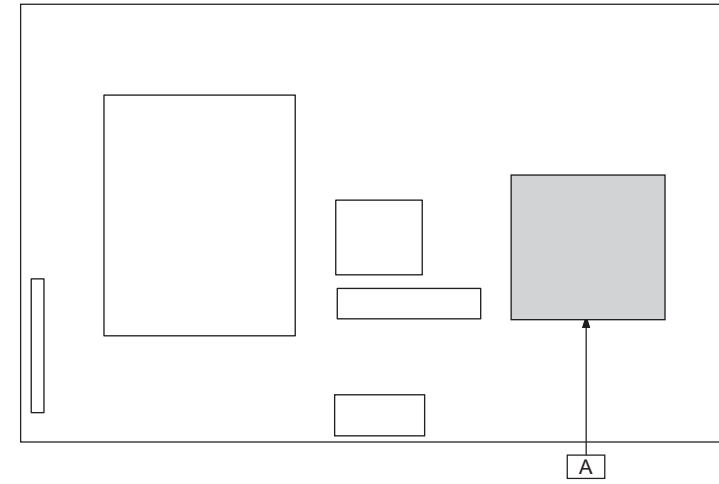
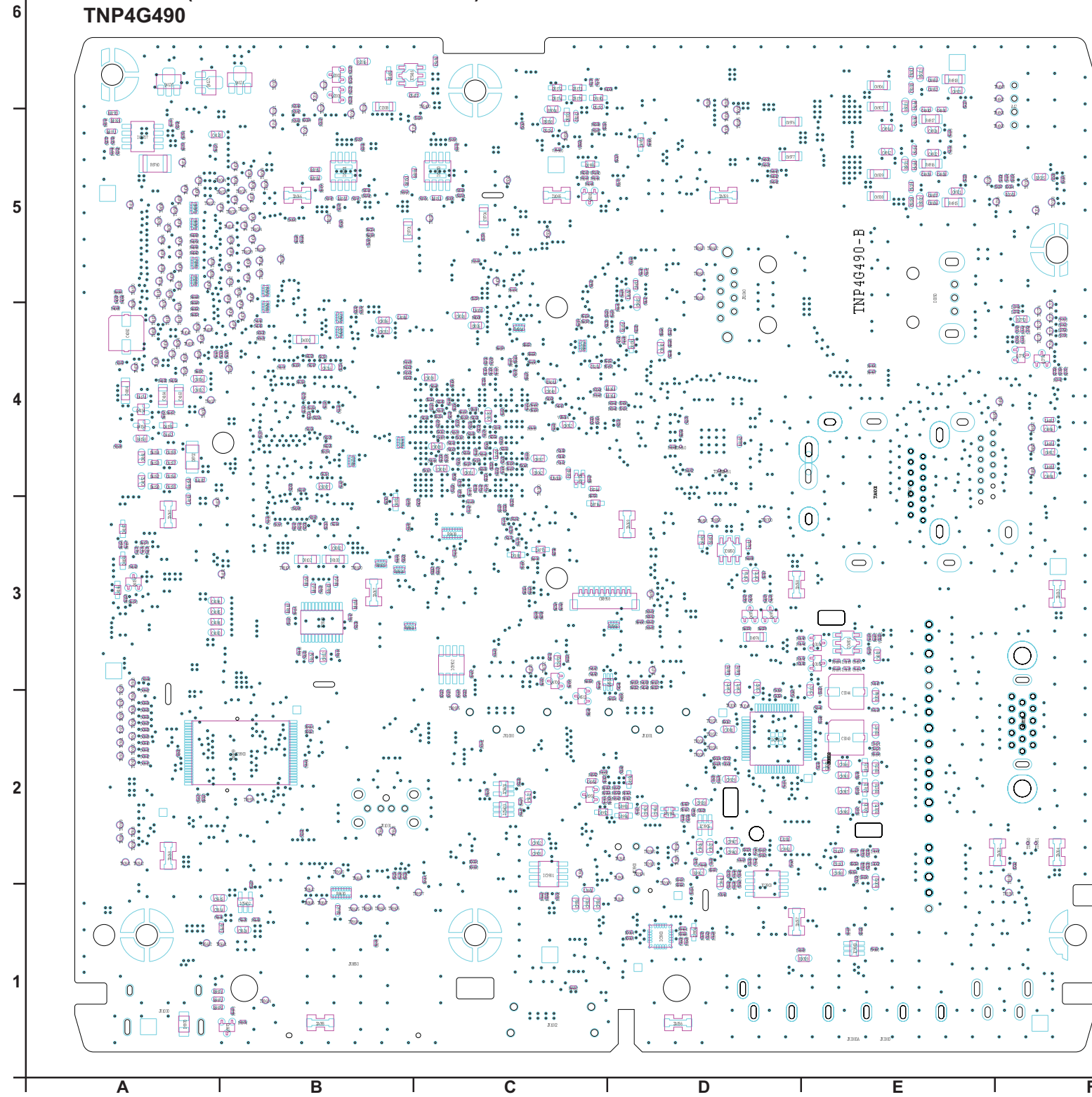


**Parts Location**

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC3350	A2	D0901	F3	D4151	F4	D4721	C3
IC3902	D2	D0914	F2	D4156	E4	D4726	C3
IC4000	E4	D2003	A5	D4158	F4	D4727	C3
IC4120	E5	D2005	A5	D4159	F4	D4728	C3
IC4121	E6	D2756	A4	D4160	F4	D4729	C3
IC4150	F3	D2760	A4	D4161	F4	D4730	C3
IC4900	B5	D2762	A5	D4162	F4	D4731	C3
IC5000	C5	D2763	A4	D4163	F4	D4732	C3
IC6851	C4	D2764	A4	D4165	F4	D4733	C3
IC8000	D4	D2765	A4	D4169	E4	D4742	C1
IC8200	E4	D3050	B5	D4170	F4	D4743	D1
IC8200-A	E4	D3052	B2	D4171	F4	D4744	D1
IC8200-B	E4	D3105	A3	D4172	E3	D4745	D1
IC8201	E4	D3106	A3	D4173	E3	D4746	D1
IC8201-A	E4	D3107	A2	D4175	E3	D4747	D1
IC8201-B	E4	D3108	A2	D4703	D3	D4748	D1
IC8601	C5	D3109	A3	D4704	D3	D4749	D1
IC8702	B3	D3132	B2	D4709	D3	D4771	C1
IC8901	D2	D3350	A2	D4710	D3	D4772	C1
		D3351	A1	D4711	D3	D5004	C6
		D3352	A2	D4712	D3	D5170	C5
		D3353	A2	D4713	D3	D5171	C5
		D3354	A2	D4714	D3	D5182	C6
		D3903	C2	D4715	D3	D8701	E4
		D3905	C2	D4716	D3	D8720	E5
		D3906	C2	D4720	C3	D8721	F5



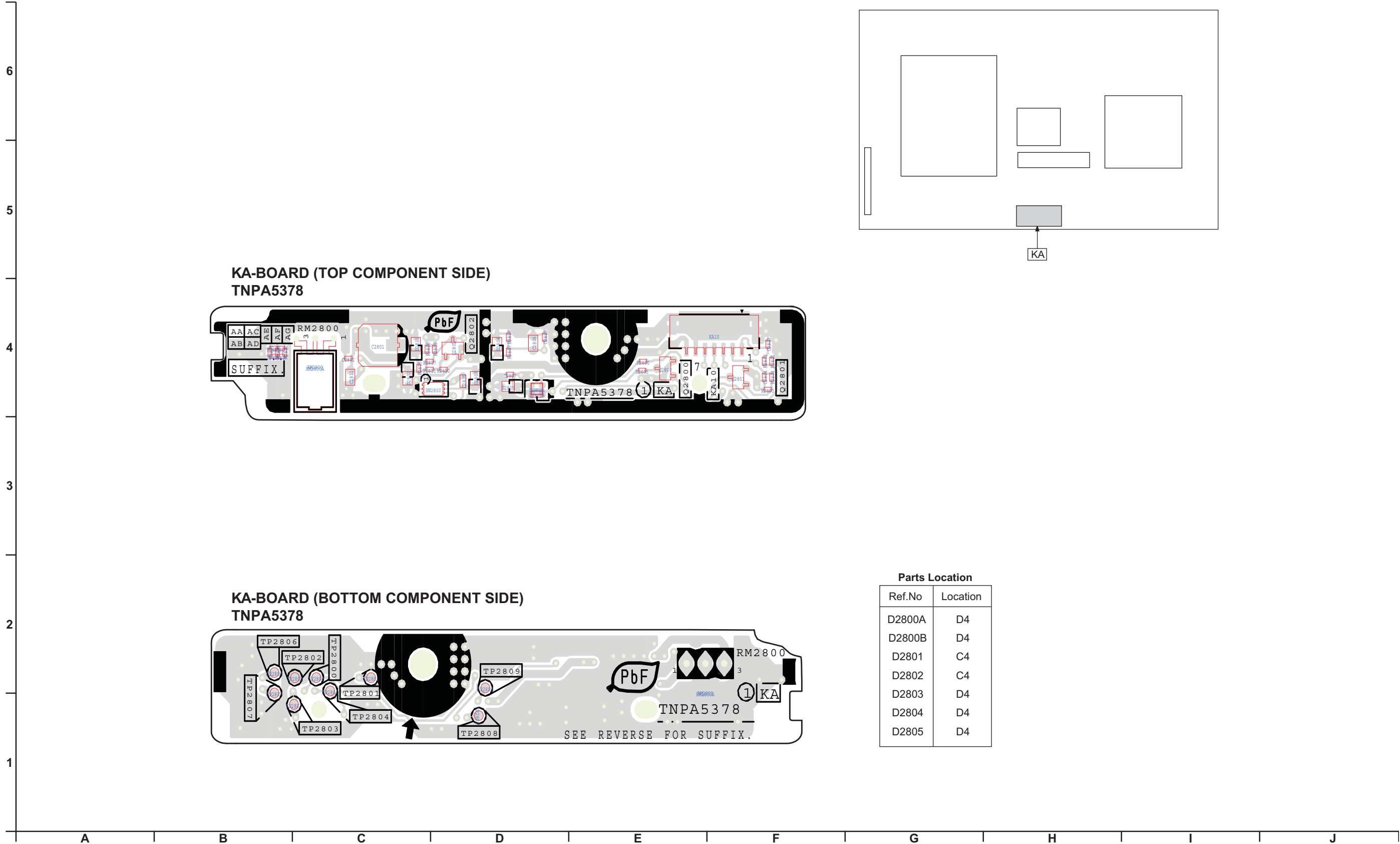
**A-BOARD (BOTTOM COMPONENT SIDE)  
TNP4G490**



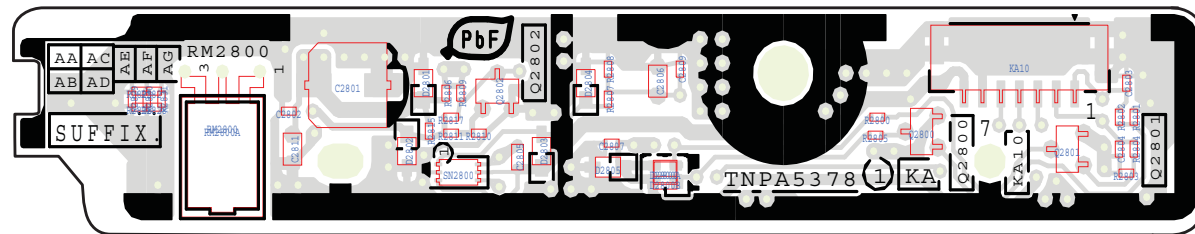
**Parts Location**

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC1951	D2	D0902	A2	D3120	E2	D5173	C6
IC3001	D2	D0904	A2	D3121	E2	D5174	C6
IC3900	D1	D0905	A2	D3122	E2	D5175	C6
IC3901	C2	D0906	A2	D3123	E2	D5180	C6
IC3903	D1	D0907	A2	D3904	D1	D5181	C3
IC3905	D2	D0908	A2	D4000	C4	D5480	B6
IC4801	E3	D0909	A2	D4001	B3	D6850	D3
IC5416	B6	D0910	A2	D4150	A4	D8100	B3
IC5601	C2	D0911	A2	D4152	A4	D8102	B3
IC5602	B1	D0912	A2	D4153	A4	D8702	A4
IC5603	C2	D0913	A2	D4154	A4	D8716	C3
IC6850	D3	D1000	D4	D4155	A4	D9970	A1
IC8100	B3	D1951	D2	D4164	A4		
IC8700	C5	D1952	C2	D4166	A3		
IC8701	B5	D1953	D2	D4167	A3		
IC8706	C4	D1954	D2	D4168	A3		
IC8707	A5	D1955	C5	D4773	C3		
IC8900	B2	D2001	E5	D4970	D5		
IC8902	C3	D3051	E2	D5003	C5		
IC9980	E1	D3110	E2	D5172	C6		

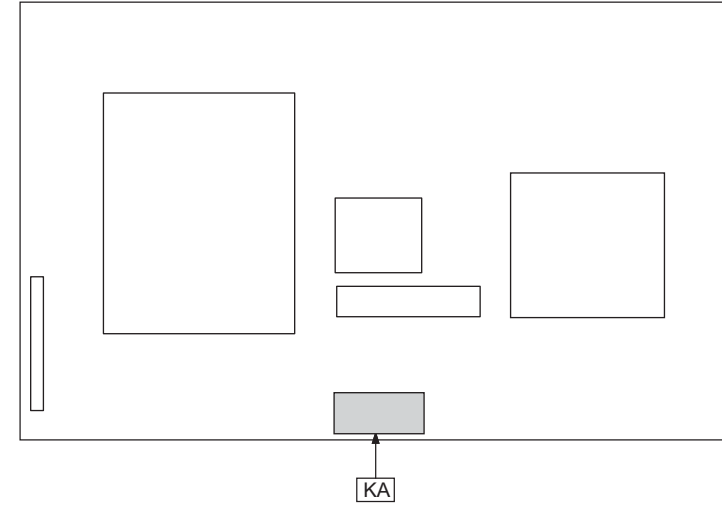
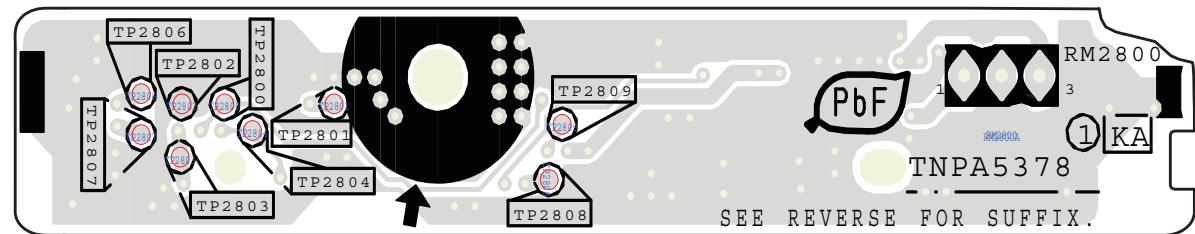
## 12.2. KA-BOARD



**KA-BOARD (TOP COMPONENT SIDE)  
TNPA5378**



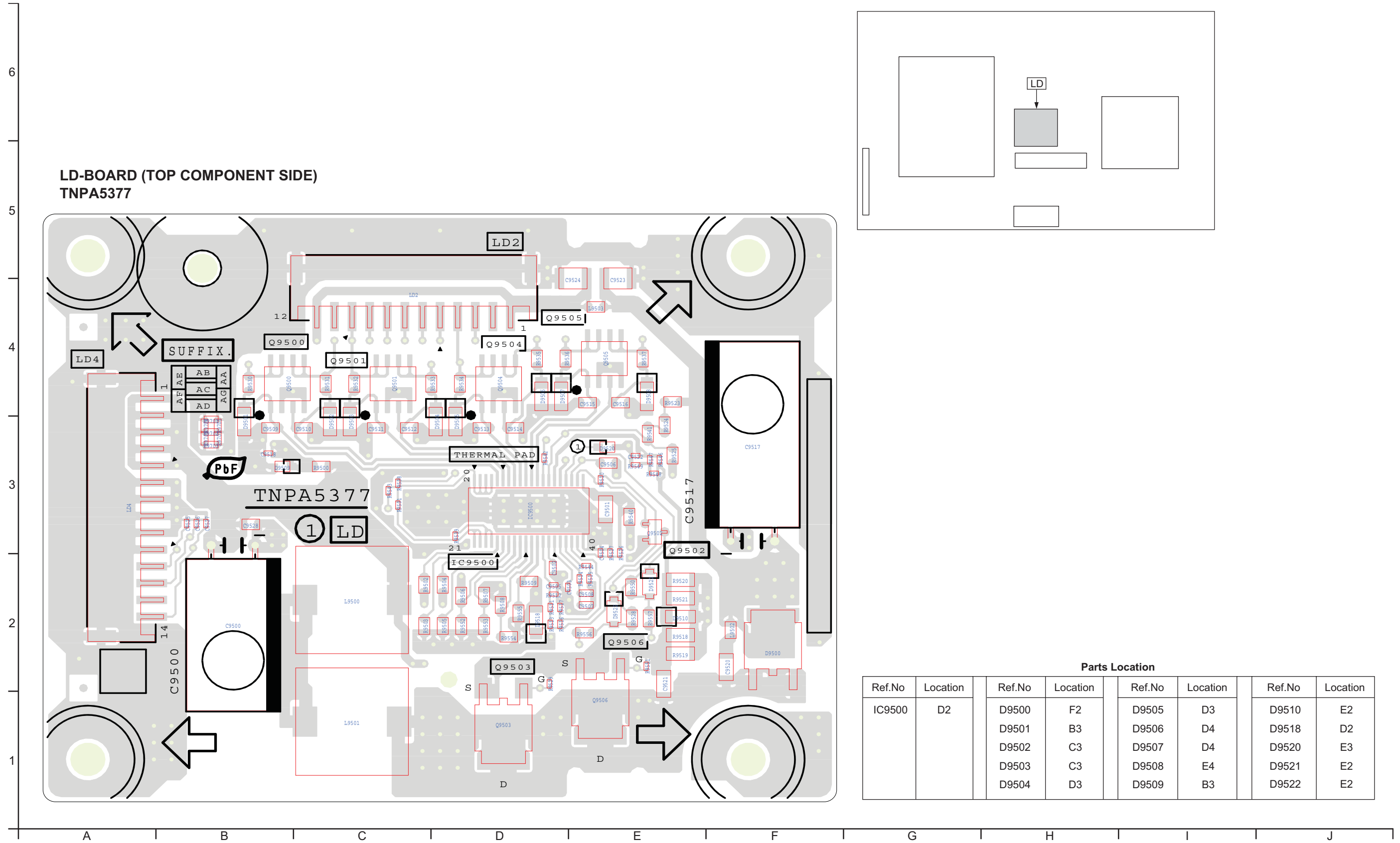
**KA-BOARD (BOTTOM COMPONENT SIDE)  
TNPA5378**



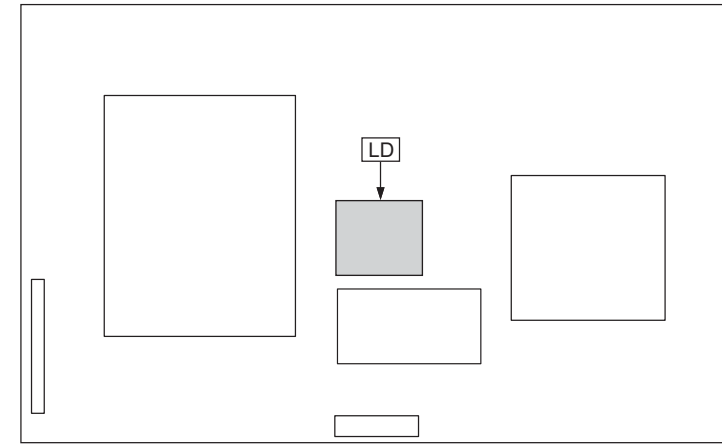
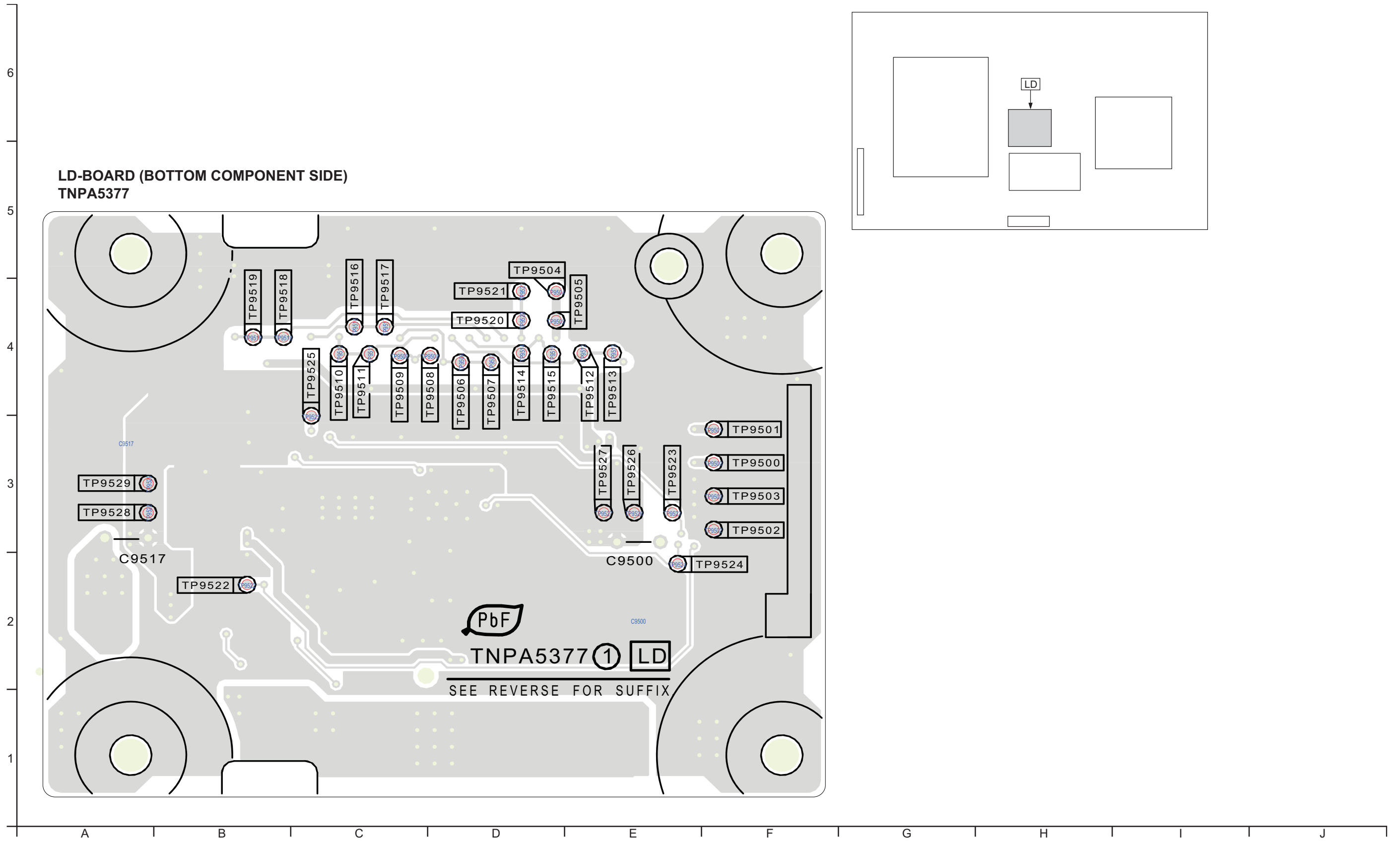
**Parts Location**

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

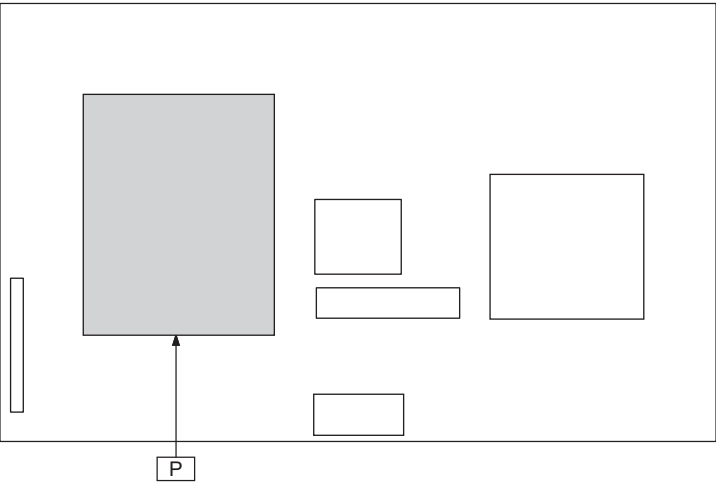
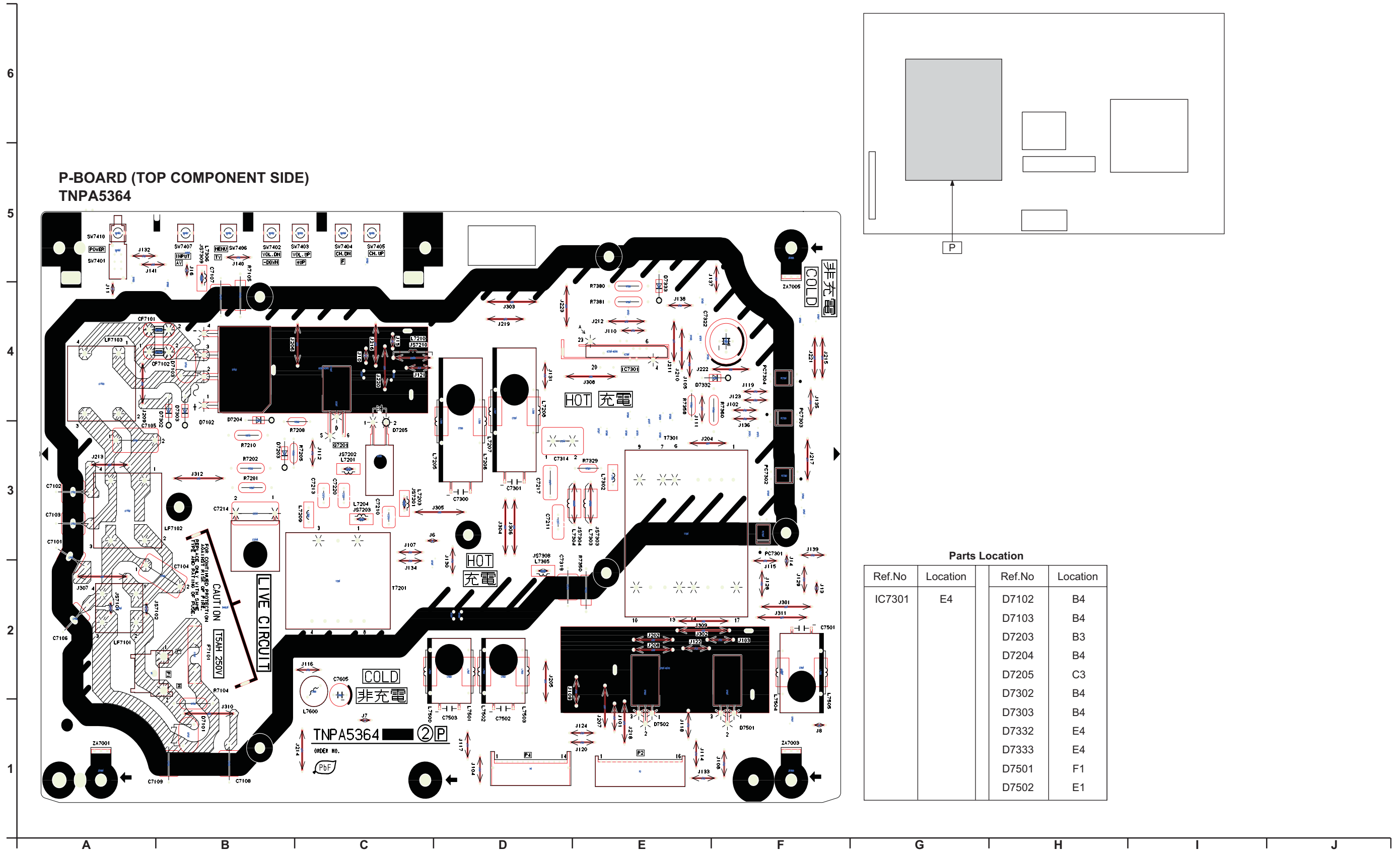
12.3. LD-BOARD



**LD-BOARD (BOTTOM COMPONENT SIDE)  
TNPA5377**

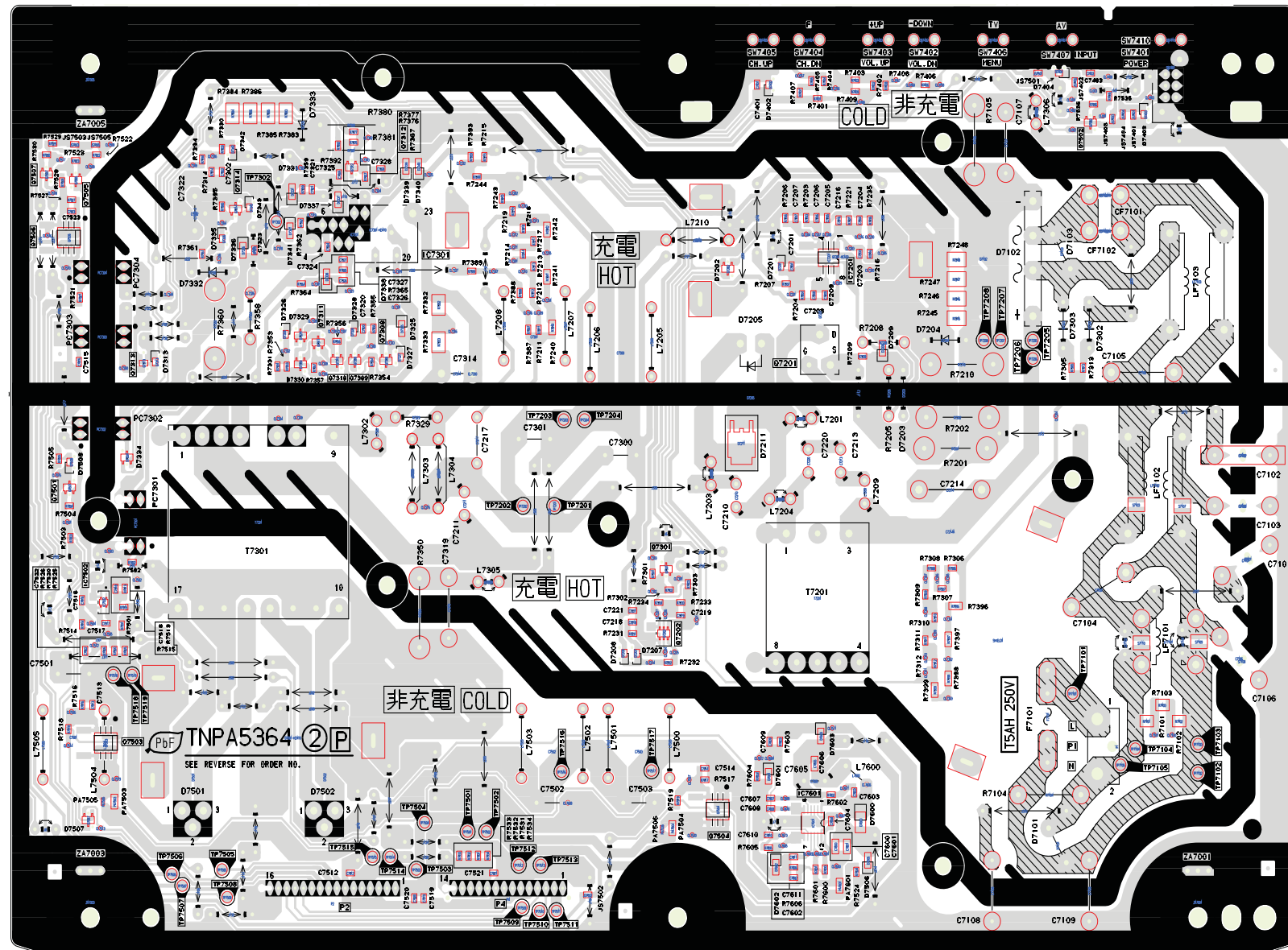


12.4. P-BOARD

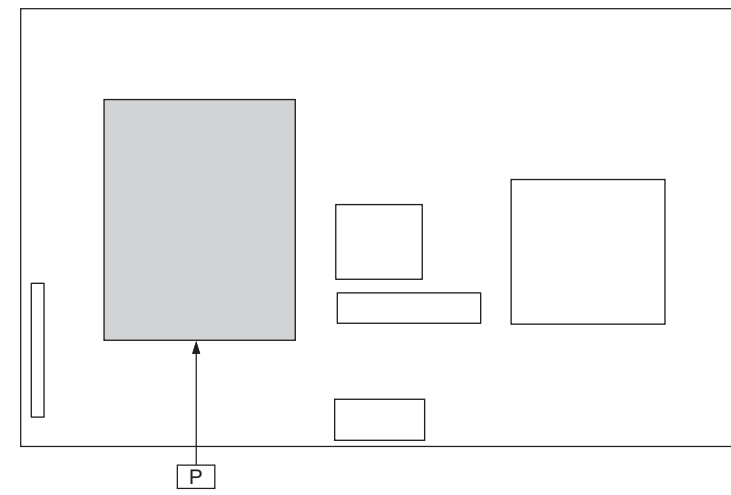


6  
5  
4  
3  
2  
1

**P-BOARD (BOTTOM COMPONENT SIDE)  
TNPA5364**



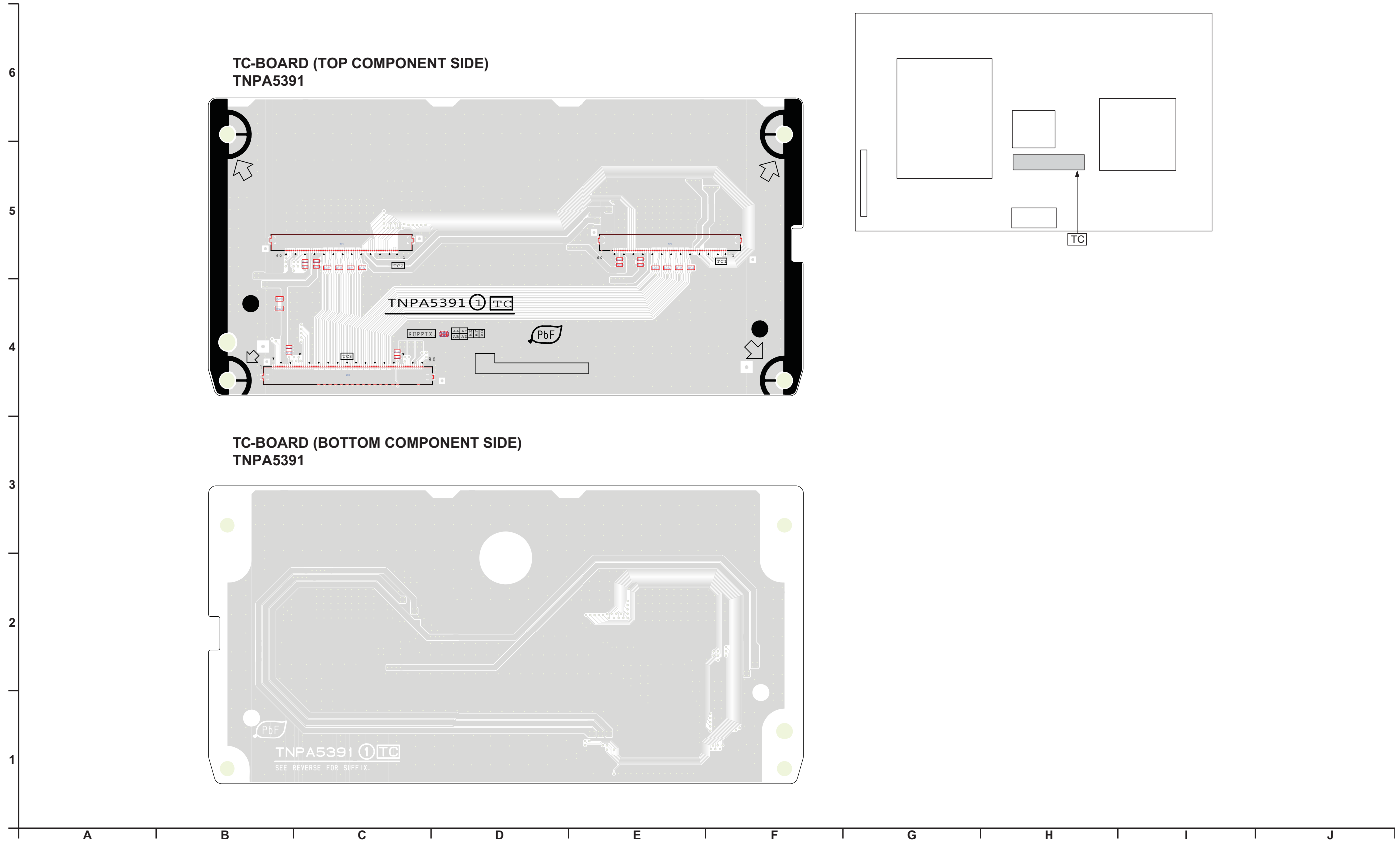
A B C D E F G H I J



**Parts Location**

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7201	D4	D7101	E1	D7326	B4	D7341	B4
IC7301	B4	D7102	E4	D7327	B3	D7342	B4
IC7502	A2	D7103	E4	D7328	B4	D7343	B4
IC7601	D1	D7201	D4	D7329	B4	D7402	D5
		D7202	D4	D7330	B3	D7403	F5
		D7203	E3	D7331	B4	D7404	E5
		D7204	E3	D7332	B4	D7501	A1
		D7205	D3	D7333	B4	D7502	B1
		D7207	C2	D7334	A3	D7506	E1
		D7208	C2	D7335	B4	D7507	A1
		D7209	E3	D7336	B4	D7508	A3
		D7211	D3	D7337	B4	D7600	D1
		D7302	F4	D7338	B4	D7601	D2
		D7303	E4	D7339	B4	D7602	D1
		D7313	A3	D7339	B4	D7603	D2
		D7325	B6	D7340	B4		

12.5. TC-BOARD







## 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		
	C1000	F1G1E1030005	C 0.01UF , 25V	
	C2003	F1G1H1020008	C 1000PF , 50V	
	C2008	F1K1E106A136	C 10UF , 25V	
	C2009	F1G1C104A077	C 0.1UF , 16V	
	C2750	F1G1C104A077	C 0.1UF , 16V	
	C2751	F1G1H1020008	C 1000PF , 50V	
	C2752	F1G1H1020008	C 1000PF , 50V	
	C2753	F1G1H1020008	C 1000PF , 50V	
	C2754	F1G1H1020008	C 1000PF , 50V	
	C2755	F1G1H1020008	C 1000PF , 50V	
	C2775	F1G1H101A565	C 100PF , 50V	
	C2801	F2G0J470A019	E 47UF , 6.3V	
	C2802	F1G1C1030008	C 0.01UF , 16V	
	C2805	F1H1C104A041	C 0.1UF , 16V	
	C3008	FLJ1A106A043	C 10UF , 10V	
	C3024	F1G1C104A077	C 0.1UF , 16V	
	C3036	F1G1C104A077	C 0.1UF , 16V	
	C3045	F1G1C104A077	C 0.1UF , 16V	
	C3057	FLJ1A106A043	C 10UF , 10V	
	C3058	F1G1A105A047	C 1UF , 10V	
	C3059	F1G1A105A047	C 1UF , 10V	
	C3077	FLJ1A106A043	C 10UF , 10V	
	C3080	F1G1C104A077	C 0.1UF , 16V	
	C3093	FLJ1A106A087	C 10UF , 10V	
	C3095	FLJ1A106A087	C 10UF , 10V	
	C3097	FLJ1A106A087	C 10UF , 10V	
	C3098	FLJ1A106A087	C 10UF , 10V	
	C3099	F1G1H5610004	C 560PF , 50V	
	C3100	F1G1H5610004	C 560PF , 50V	
	C3105	F2H1A101A040	E 100UF , 10V	
	C3107	F1H1A105A025	C 1UF , 10V	
	C3108	F1G1H5610004	C 560PF , 50V	
	C3109	F1G1H5610004	C 560PF , 50V	
	C3110	F1H1A105A025	C 1UF , 10V	
	C3111	FLJ1A106A087	C 10UF , 10V	
	C3112	F1G1H5610004	C 560PF , 50V	
	C3115	F1G1H5610004	C 560PF , 50V	
	C3116	F1H1A105A025	C 1UF , 10V	
	C3117	F1H1A105A025	C 1UF , 10V	
	C3118	F1G1C333A081	C 0.033UF , 16V	
	C3119	F1G1C333A081	C 0.033UF , 16V	
	C3146	F1G1C104A077	C 0.1UF , 16V	
	C3153	F1G1H5610004	C 560PF , 50V	
	C3154	F1G1H5610004	C 560PF , 50V	
	C3158	F1G1C104A077	C 0.1UF , 16V	
	C3159	F1G1A105A047	C 1UF , 10V	
	C3160	F1G1A105A047	C 1UF , 10V	
	C3161	F1G1A105A047	C 1UF , 10V	
	C3162	FLJ1A106A087	C 10UF , 10V	
	C3163	FLJ1A106A087	C 10UF , 10V	
	C3164	FLJ1A106A087	C 10UF , 10V	
	C3165	FLJ1A106A087	C 10UF , 10V	
	C3166	FLJ1A106A087	C 10UF , 10V	
	C3167	F1G1H5610004	C 560PF , 50V	
	C3168	F1G1H5610004	C 560PF , 50V	
	C3169	F1H1A105A025	C 1UF , 10V	
	C3170	F1H1A105A025	C 1UF , 10V	
	C3171	FLJ1A106A087	C 10UF , 10V	
	C3172	FLJ1A106A087	C 10UF , 10V	
	C3173	FLJ1A106A087	C 10UF , 10V	
	C4001	FLJ1C475A217	C 4.7UF , 16V	
	C4002	FLJ1A106A087	C 10UF , 10V	
	C4005	F1H1H103A219	C 0.01UF , 50V	
	C4006	FLJ1A106A087	C 10UF , 10V	
	C4012	F1K1E106A136	C 10UF , 25V	
	C4120	F1H1H104A970	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4121	F1H1H104A970	C 0.1UF , 16V	
	C4122	F1G1C104A077	C 0.1UF , 16V	
	C4123	F1G1C104A077	C 0.1UF , 16V	
	C4124	F1G1C104A077	C 0.1UF , 16V	
	C4125	F1G1C104A077	C 0.1UF , 16V	
	C4126	F1G1C104A077	C 0.1UF , 16V	
	C4127	F1G1C104A077	C 0.1UF , 16V	
	C4129	F1G1C104A077	C 0.1UF , 16V	
	C4130	F1G1C104A077	C 0.1UF , 16V	
	C4131	F1G1C104A077	C 0.1UF , 16V	
	C4132	F1G1C104A077	C 0.1UF , 16V	
	C4133	F1G1C104A077	C 0.1UF , 16V	
	C4134	F1H1C105A145	C 0.1UF , 50V	
	C4140	F1H1H104A970	C 0.1UF , 16V	
	C4141	F1H1C105A145	C 0.1UF , 50V	
	C4143	F1K1C106A126	C 10UF 16V	
	C4144	F1H1H104A970	C 0.1UF , 16V	
	C4145	F1G1H101A731	C 100PF , 50V	
	C4146	F1H1H104A970	C 0.1UF , 16V	
	C4150	FLJ1E475A267	C 4.7UF , 25V	
	C4151	F1G1C104A077	C 0.1UF , 16V	
	C4152	FLJ1E105A231	C 1UF , 25V	
	C4153	F1H1H104A970	C 0.1UF , 16V	
	C4154	F1H1H104A970	C 0.1UF , 16V	
	C4155	F1H1H473A918	C 0.047UF , 50V	
	C4156	F1H1H473A918	C 0.047UF , 50V	
	C4157	F1H1H473A918	C 0.047UF , 50V	
	C4158	F1H1H104A970	C 0.1UF , 16V	
	C4159	F1H1H473A918	C 0.047UF , 50V	
	C4160	F1H1H104A970	C 0.1UF , 16V	
	C4161	FLJ1E105A231	C 1UF , 25V	
	C4162	F1H1H104A970	C 0.1UF , 16V	
	C4163	F1K1E106A136	C 10UF , 25V	
	C4164	F1K1E106A136	C 10UF , 25V	
	C4165	F1K1E225A085	C 2.2UF , 25V	
	C4166	F1K1E225A085	C 2.2UF , 25V	
	C4167	F1K1E225A085	C 2.2UF , 25V	
	C4168	F1K1E225A085	C 2.2UF , 25V	
	C4169	F1H1H104A970	C 0.1UF , 16V	
	C4170	F1G1A105A047	C 1UF , 10V	
	C4171	F1H1H104A970	C 0.1UF , 16V	
	C4173	F1G1E472A086	C 4700PF , 25V	
	C4174	F1G1H560A565	C 56PF , 50V	
	C4175	FLJ1C475A170	C 4.7UF , 16V	
	C4176	FLJ1C475A170	C 4.7UF , 16V	
	C4177	FLJ1C475A170	C 4.7UF , 16V	
	C4178	FLJ1C475A170	C 4.7UF , 16V	
	C4179	F1G1E472A086	C 4700PF , 25V	
	C4180	F1G1A105A047	C 1UF , 10V	
	C4181	FLJ1E475A267	C 4.7UF , 25V	
	C4182	FLJ1E475A267	C 4.7UF , 25V	
	C4183	FLJ1C475A170	C 4.7UF , 16V	
	C4184	FLJ1C475A170	C 4.7UF , 16V	
	C4185	FLJ1C475A170	C 4.7UF , 16V	
	C4186	FLJ1C475A170	C 4.7UF , 16V	
	C4187	F1K0J1060017	C 10UF , 6.3V	
	C4188	F1K0J1060017	C 10UF , 6.3V	
	C4546	F1G1A105A047	C 1UF , 10V	
	C4548	F1G1A105A047	C 1UF , 10V	
	C4800	F1G1H220A565	C 22PF , 50V	
	C4801	F1G1H1020008	C 1000PF , 50V	
	C4802	FLJ1A106A043	C 10UF , 10V	
	C4803	F1G1H1020008	C 1000PF , 50V	
	C4804	FLJ1A106A043	C 10UF , 10V	
	C4805	F1G1H1020008	C 1000PF , 50V	
	C4806	FLJ1A106A043	C 10UF , 10V	
	C4809	F1G1C104A077	C 0.1UF , 16V	
	C4810	F1G1C104A077	C 0.1UF , 16V	
	C4811	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4812	F1G1A105A047	C 1UF , 10V	
	C4813	F1G1A105A047	C 1UF , 10V	
	C4814	F1G1H101A565	C 100PF , 50V	
	C4815	F1G1H100A565	C 100PF , 50V	
	C4816	F1G1H100A565	C 100PF , 50V	
	C4817	F1G1H100A565	C 100PF , 50V	
	C4907	F1K1E106A136	C 10UF , 25V	
	C4909	F1J1E105A231	C 1UF , 25V	
	C4910	F1K1E106A136	C 10UF , 25V	
	C4911	F1H1H104A970	C 0.1UF , 16V	
	C4912	F1J1E105A231	C 1UF , 25V	
	C4913	F1H1H104A970	C 0.1UF , 16V	
	C4914	F1J1E105A231	C 1UF , 25V	
	C4915	F1H1H104A970	C 0.1UF , 16V	
	C4916	F1K1E106A136	C 10UF , 25V	
	C4917	F1H1H104A970	C 0.1UF , 16V	
	C4918	F1J1E105A231	C 1UF , 25V	
	C4921	F1J1E4740001	C 0.47UF , 25V	
	C4922	F1J1E4740001	C 0.47UF , 25V	
	C4924	F1J1E4740001	C 0.47UF , 25V	
	C4925	F1J1E4740001	C 0.47UF , 25V	
	C4926	F1H1H223A219	C 0.022UF , 50V	
	C4927	F1H1H223A219	C 0.022UF , 50V	
	C4928	F1H1H223A219	C 0.022UF , 50V	
	C4929	F1H1H223A219	C 0.022UF , 50V	
	C4930	F1H1H223A219	C 0.022UF , 50V	
	C4931	F1H1H223A219	C 0.022UF , 50V	
	C4932	F1H1H223A219	C 0.022UF , 50V	
	C4933	F1H1H223A219	C 0.022UF , 50V	
	C4934	F1G1H1020008	C 1000PF , 50V	
	C4935	F1G1H1020008	C 1000PF , 50V	
	C4936	F1G1H1020008	C 1000PF , 50V	
	C4937	F1G1H1020008	C 1000PF , 50V	
	C4970	F1J1A106A087	C 10UF , 10V	
	C4971	F1J1A106A087	C 10UF , 10V	
	C4972	F2H1A101A040	E 100UF , 10V	
	C4973	F2H1A101A040	E 100UF , 10V	
	C4976	F1K1E106A136	C 10UF , 25V	
	C4977	F1K1E106A136	C 10UF , 25V	
	C5000	F1H1A105A025	C 1UF , 10V	
	C5001	F2H0J1010009	C 100UF , 6.3V	
	C5002	F1H1A105A025	C 1UF , 10V	
	C5004	F1H1A105A025	C 1UF , 10V	
	C5006	F1J1E105A231	C 1UF , 25V	
	C5012	F1H1A105A025	C 1UF , 10V	
	C5020	F1G1C104A077	C 0.1UF , 16V	
	C5021	F1G1A105A047	C 1UF , 10V	
	C5022	F1G1A105A047	C 1UF , 10V	
	C5026	F1H1C105A145	C 1UF , 16V	
	C5151	F1H1H103A219	C 0.01UF , 50V	
	C5171	F1G1C1030008	C 0.01UF , 16V	
	C5476	F1H1A105A025	C 1UF , 10V	
	C5477	F1H1A105A025	C 1UF , 10V	
	C5613	EEHBOJ221UF	C 220UF , 6.3V	
	C5616	F1G1C104A077	C 0.1UF , 16V	
	C5618	EEHBOJ221UF	C 220UF , 6.3V	
	C5621	F1G1C104A077	C 0.1UF , 16V	
	C5622	F1J1A106A087	C 10UF , 10V	
	C5623	F1G1C104A077	C 0.1UF , 16V	
	C5624	F1J1A106A087	C 10UF , 10V	
	C5625	F1G1C104A077	C 0.1UF , 16V	
⚠	C7102	F1A2E471A003	C 470PF , 250V	
⚠	C7103	F1A2E471A003	C 470PF , 250V	
⚠	C7104	F0CAF224A124	C 0.22UF , 250V	
⚠	C7105	F0CAF224A124	C 0.22UF , 250V	
⚠	C7107	F1A2E471A003	C 470PF , 250V	
	C7201	F1J1H222A721	C 2200PF , 50V	
	C7203	F1J1H102A721	C 1000PF , 50V	
	C7204	F1J1H104A717	C 0.1UF , 50V	
	C7205	F1J1E224A136	C 0.22UF , 50V	
	C7206	F1J1H1030007	C 0.01UF , 50V	
	C7207	F1J1H1030007	C 0.01UF , 50V	
	C7208	F1J1H474A757	C 0.47UF , 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7209	F1J1H104A717	C 0.1UF , 50V	
	C7213	F1A3A471A060	C 470PF , 1kV	
	C7214	F0CZZ1050007	C 1UF , 250V	
	C7218	F1J1H1030007	C 0.01UF , 50V	
	C7219	F1J1H2240009	C 0.22UF , 50V	
	C7220	F1A3A471A060	C 470PF , 1kV	
	C7221	F1J1H102A721	C 1000PF , 50V	
	C7301	F2A2W8200011	C 82UF , 450V	
	C7302	F1J1H102A721	C 1000PF , 50V	
	C7314	F0C2K273A046	C 0.027UF , 800V	
	C7320	F1J1E223A226	C 0.022UF , 25V	
	C7321	F1J1H221A709	C 220PF , 50V	
	C7322	F2A1V4710023	C 470UF , 35V	
	C7323	F1J1H104A717	C 0.1UF , 50V	
	C7324	F1J1H221A709	C 220PF , 50V	
	C7325	F1J1E105A231	C 1UF , 25V	
	C7326	F1J1H104A717	C 0.1UF , 50V	
	C7327	F1J1E223A226	C 0.022UF , 25V	
	C7328	F1J1E105A231	C 1UF , 25V	
	C7501	F2A1V1820032	C 1800UF , 35V	
	C7502	F2A1E1820027	C 1800UF , 25V	
	C7513	F1J1C475A217	C 4.7UF , 16V	
	C7514	F1J1E105A231	C 1UF , 25V	
	C7516	F1J1H104A717	C 0.1UF , 50V	
	C7521	F1J1H104A717	C 0.1UF , 50V	
	C7523	F1J1E105A231	C 1UF , 25V	
	C7600	F1K1E106A136	C 10UF , 25V	
	C7601	F1K1E106A136	C 10UF , 25V	
	C7602	F1J1E224A136	C 0.22UF , 50V	
	C7604	F1J1E105A231	C 1UF , 25V	
	C7606	F1K1E106A136	C 10UF , 25V	
	C7607	F1J1E223A226	C 0.022UF , 25V	
	C7608	F1J1H222A721	C 2200PF , 50V	
	C7610	F1J1H472A702	C 4700PF , 50V	
	C7611	F1J1E105A231	C 1UF , 25V	
	C8001	F1J1A106A087	C 10UF , 10V	
	C8004	F1G1C104A077	C 0.1UF , 16V	
	C8005	F1G1C104A077	C 0.1UF , 16V	
	C8006	F1G1C104A077	C 0.1UF , 16V	
	C8008	F1G1H1020008	C 1000PF , 50V	
	C8009	F1J1A106A087	C 10UF , 10V	
	C8011	F1G1C104A077	C 0.1UF , 16V	
	C8013	F1G1H1020008	C 1000PF , 50V	
	C8014	F1G1A105A047	C 1UF , 10V	
	C8015	F1G1A105A047	C 1UF , 10V	
	C8016	F1G1C104A077	C 0.1UF , 16V	
	C8019	F1J1A106A087	C 10UF , 10V	
	C8023	F1G1C104A077	C 0.1UF , 16V	
	C8024	F1J1A106A087	C 10UF , 10V	
	C8025	F1J1A106A087	C 10UF , 10V	
	C8026	F1J0G2260001	C 22UF , 4V	
	C8027	F1G1H101A565	C 100PF , 50V	
	C8028	F1G1C104A077	C 0.1UF , 16V	
	C8029	F1G1C104A077	C 0.1UF , 16V	
	C8030	F1G1H101A565	C 100PF , 50V	
	C8031	F1G1C104A077	C 0.1UF , 16V	
	C8034	F1G1C104A077	C 0.1UF , 16V	
	C8035	F1G1C104A077	C 0.1UF , 16V	
	C8037	F1J1A106A087	C 10UF , 10V	
	C8038	F1G1H1020008	C 1000PF , 50V	
	C8039	F1J1A106A087	C 10UF , 10V	
	C8041	F1G1C104A077	C 0.1UF , 16V	
	C8042	F1J1A106A087	C 10UF , 10V	
	C8044	F1G1C104A077	C 0.1UF , 16V	
	C8045	F1G1H101A565	C 100PF , 50V	
	C8046	F1G1C104A077	C 0.1UF , 16V	
	C8047	F1G1C104A077	C 0.1UF , 16V	
	C8050	F1G1C104A077	C 0.1UF , 16V	
	C8051	F1G1C104A077	C 0.1UF , 16V	
	C8053	F1G1C104A077	C 0.1UF , 16V	
	C8054	F1G1C104A077	C 0.1UF , 16V	
	C8055	F1G1H1020008	C 1000PF , 50V	
	C8100	F1G1E682A123	C 6800PF , 25V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8102	FLJ1A475A087	C 4.7UF , 10V	
	C8104	F1H1C105A145	C 1UF , 16V	
	C8106	F1G1C223A081	C 0.022UF , 16V	
	C8108	F1G1C104A077	C 0.1UF , 16V	
	C8110	F1G1C104A077	C 0.1UF , 16V	
	C8112	F1K1E106A136	C 10UF , 25V	
	C8114	F1K1E106A136	C 10UF , 25V	
	C8116	F1K1E106A136	C 10UF , 25V	
	C8118	F1K1E106A136	C 10UF , 25V	
	C8120	FLJ0G2260001	C 22UF , 4V	
	C8122	FLJ0G2260001	C 22UF , 4V	
	C8124	FLJ0G2260001	C 22UF , 4V	
	C8126	FLJ0G2260001	C 22UF , 4V	
	C8128	FLJ0G2260001	C 22UF , 4V	
	C8200	F1G1C104A077	C 0.1UF , 16V	
	C8203	F1G1C104A077	C 0.1UF , 16V	
	C8204	F1G1C104A077	C 0.1UF , 16V	
	C8205	F1G1C104A077	C 0.1UF , 16V	
	C8206	F1G1C104A077	C 0.1UF , 16V	
	C8207	FLJ1A106A087	C 10UF , 10V	
	C8208	F1G1C104A077	C 0.1UF , 16V	
	C8210	F1G1C104A077	C 0.1UF , 16V	
	C8212	F1G1C104A077	C 0.1UF , 16V	
	C8215	F1G1C104A077	C 0.1UF , 16V	
	C8216	FLJ1A106A087	C 10UF , 10V	
	C8218	F1G1C104A077	C 0.1UF , 16V	
	C8220	F1G1C104A077	C 0.1UF , 16V	
	C8221	F1G1C104A077	C 0.1UF , 16V	
	C8224	F1G1C104A077	C 0.1UF , 16V	
	C8225	F1G1C104A077	C 0.1UF , 16V	
	C8300	F1G1H6R0A732	C 6PF , 50V	
	C8301	F1G1H7R0A732	C 7PF , 50V	
	C8302	F1G1C104A077	C 0.1UF , 16V	
	C8303	F1G1C104A077	C 0.1UF , 16V	
	C8304	F1G1C104A077	C 0.1UF , 16V	
	C8305	F1G1A105A047	C 1UF , 10V	
	C8306	F1G1A105A047	C 1UF , 10V	
	C8307	F1G1A105A047	C 1UF , 10V	
	C8308	F1G1A105A047	C 1UF , 10V	
	C8309	F1G1A105A047	C 1UF , 10V	
	C8310	F1G1A105A047	C 1UF , 10V	
	C8311	F1G1A105A047	C 1UF , 10V	
	C8602	F1G1H390A565	C 39PF , 50V	
	C8603	FLJ1A106A087	C 10UF , 10V	
	C8604	F1G1C104A077	C 0.1UF , 16V	
	C8605	F1G1C104A077	C 0.1UF , 16V	
	C8607	F1G1H100A565	C 100PF , 50V	
	C8608	F1G1H100A565	C 100PF , 50V	
	C8609	F1G1C104A077	C 0.1UF , 16V	
	C8611	F1G1C104A077	C 0.1UF , 16V	
	C8615	FLJ1A106A087	C 10UF , 10V	
	C8616	FLJ1A106A087	C 10UF , 10V	
	C8617	F1G1C104A077	C 0.1UF , 16V	
	C8619	F1G1C104A077	C 0.1UF , 16V	
	C8620	F1G1C104A077	C 0.1UF , 16V	
	C8627	F1G1C104A077	C 0.1UF , 16V	
	C8628	FLJ1A106A087	C 10UF , 10V	
	C8629	F1G1H390A565	C 39PF , 50V	
	C8630	F1G1H220A565	C 22PF , 50V	
	C8644	F1G1C104A077	C 0.1UF , 16V	
	C8700	F1G1E1030005	C 0.01UF , 25V	
	C8702	FLK0J226A049	C 22UF , 6.3V	
	C8703	FLK0J226A049	C 22UF , 6.3V	
	C8705	F1G1E1030005	C 0.01UF , 25V	
	C8707	F1G1E1030005	C 0.01UF , 25V	
	C8708	FLJ1A106A043	C 10UF , 10V	
	C8709	FLJ1A106A043	C 10UF , 10V	
	C8710	FLJ1A106A043	C 10UF , 10V	
	C8711	F1G1C223A081	C 0.022UF , 16V	
	C8712	F1G1E272A123	C 2700PF , 25V	
	C8714	FLJ1A475A087	C 4.7UF , 10V	
	C8715	FLJ1A106A087	C 10UF , 10V	
	C8716	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8717	F1G1C104A077	C 0.1UF , 16V	
	C8721	F1K1E106A136	C 10UF , 25V	
	C8722	F1K1E106A136	C 10UF , 25V	
	C8723	F1K1E106A136	C 10UF , 25V	
	C8724	F1K1E106A136	C 10UF , 25V	
	C8764	F1H1A105A025	C 1UF , 10V	
	C8765	F1H1A105A025	C 1UF , 10V	
	C8769	F1G1C223A081	C 0.022UF , 16V	
	C8772	FLK0J226A049	C 22UF , 6.3V	
	C8773	FLK0J226A049	C 22UF , 6.3V	
	C8900	F1G1C104A077	C 0.1UF , 16V	
	C8901	F1G1C104A077	C 0.1UF , 16V	
	C8902	F1G1C104A077	C 0.1UF , 16V	
	C8903	F1G1C104A077	C 0.1UF , 16V	
	C9500	F2A1V471B560	C 470UF , 35V	
	C9501	F1K1H225A118	C 2.2UF , 50V	
	C9502	F1H1C474A143	C 0.47UF , 16V	
	C9503	F1G1E1030005	C 0.01UF , 25V	
	C9505	F1G1E1030005	C 0.01UF , 25V	
	C9506	FLJ1A475A087	C 4.7UF , 10V	
	C9507	F1H1C474A143	C 0.47UF , 16V	
	C9511	FLJ1H182A721	C 1800PF , 50V	
	C9512	FLJ1H182A721	C 1800PF , 50V	
	C9513	FLJ1H182A721	C 1800PF , 50V	
	C9514	FLJ1H182A721	C 1800PF , 50V	
	C9515	FLJ1H182A721	C 1800PF , 50V	
	C9516	FLJ1H182A721	C 1800PF , 50V	
	C9517	F2A2C560A209	C 56UF , 16V	
	C9518	F1G1E1030005	C 0.01UF , 25V	
	C9524	FL2E1040002	C 0.1UF , 250V	
			DIODES	
	D1000	B0JCCE000008	DIODE	
	D2005	EZJZ0V120JA	VARISTOR	
	D2800A	B3AGB0000065	LED	
	D3050	K7AAAY000011	OPTICAL DIODE	
	D4001	DA2J10100L	DIODE	
	D4150	B0JCDE000006	DIODE	
	D4151	B0JDCDE000017	DIODE	
	D4152	B0JCDE000006	DIODE	
	D4153	B0JCDE000006	DIODE	
	D4154	B0JCDE000006	DIODE	
	D4155	DZ2J330MOL	DIODE	
	D4156	DA2J10100L	DIODE	
	D4157	DA2J10100L	DIODE	
	D4159	B0JCDE000006	DIODE	
	D4160	B0JCDE000006	DIODE	
	D4161	B0JCDE000006	DIODE	
	D4162	B0JCDE000006	DIODE	
	D4163	DZ2J200MOL	DIODE	
	D4165	B0BC01000035	DIODE	
	D4166	DA2J10100L	DIODE	
	D4167	DA2J10100L	DIODE	
	D4168	DA2J10100L	DIODE	
	D4169	B0BC4R700007	DIODE	
	D4170	DZ2J047MOL	DIODE	
	D4171	DA2J10100L	DIODE	
	D4172	B0JCPE000004	DIODE	
	D4173	B0BC17000001	DIODE	
	D4174	B0BC022A0007	DIODE	
	D4175	DA2J10100L	DIODE	
	D4704	B0JCDD000020	DIODE	
	D4721	B0JCDD000020	DIODE	
	D4772	B0JCDD000020	DIODE	
	D4773	B0JCCE000008	DIODE	
	D5172	B0BC01700015	DIODE	
	D5173	DA2J10100L	DIODE	
	D5174	B0BC010A0007	DIODE	
	D5175	DA2J10100L	DIODE	
	D5180	DZ2J033MOL	DIODE	
	D5480	B0JCCE000008	DIODE	
	△	D7101	ERZV10V621C2	VARISTOR
		D7102	B0FBAT000018	DIODE
	△	D7103	ERZV10V621C2	VARISTOR

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7202	B0ADCK000001	DIODE	
	D7203	B0JAME000126	DIODE	
	D7204	B0JAME000126	DIODE	
	D7205	B0HASR000018	DIODE	
	D7207	DZ2J068M0L	DIODE	
	D7208	DA2J10100L	DIODE	
	D7209	B0BC02500002	DIODE	
	D7302	B0HAGQ000001	DIODE	
	D7303	B0HAGQ000001	DIODE	
	D7313	DZ2J068M0L	DIODE	
	D7325	B0BC02500002	DIODE	
	D7326	DA2J10100L	DIODE	
	D7327	DA2J10100L	DIODE	
	D7328	DA2J10100L	DIODE	
	D7329	DA3X101F0L	DIODE	
	D7330	DA3X101F0L	DIODE	
	D7331	B0BC4R000002	DIODE	
	D7332	B0HAGQ000001	DIODE	
	D7333	B0JAME000126	DIODE	
	D7334	B0ADCK000001	DIODE	
	D7335	DZ2J180M0L	DIODE	
	D7336	B0BC03300012	DIODE	
	D7337	B0BC02500002	DIODE	
	D7338	B0BC02500002	DIODE	
	D7339	B0BC02500002	DIODE	
	D7341	B0BC02500002	DIODE	
	D7342	DA2J10100L	DIODE	
	D7343	DA2J10100L	DIODE	
	D7501	B0JBSL000047	DIODE	
	D7502	B0JBSL000047	DIODE	
	D7507	B0ADCK000001	DIODE	
	D7508	DA2J10100L	DIODE	
	D7600	B0JCPE000038	DIODE	
	D8716	DA2J10100L	DIODE	
	D9500	B0FCAM000001	DIODE	
	D9509	DZ2J120M0L	DIODE	
	D9510	B0BC6R600005	DIODE	
	D9520	DB2J41100L	DIODE	
	D9521	B0ECKM000053	DIODE	
	D9522	B0ECKM000053	DIODE	
		INTEGRATED CIRCUITS		
	IC3001	CLAB00003385	IC	
	IC4120	C0FBYY000086	IC	
	IC4121	C0ABEB000037	IC	
	IC4150	C0DBAYY00868	IC	
	IC4900	CLAB00003457	IC	
	IC5000	AN34043AAVF	IC	
	IC5416	C0DBGYY00281	IC	
	IC5601	C0DBZYY00368	IC	
	IC5602	C0DBZYY00368	IC	
	IC7201	C0DBBYY00033	IC	
	IC7301	C5HAZYY00014	IC	
	IC7502	C0DBZMC00006	IC	
	IC7601	C0DBAYY00922	IC	
	IC8000	MN2WS0177C	IC	
	IC8100	C0DBAYY00715	IC	
	IC8200	C3ABTY000043	IC	
	IC8201	C3ABTY000043	IC	
	IC8601	C1CB00003491	IC	
	IC8700	C0DBAYY00915	IC	
	IC8701	C0DBAYY00915	IC	
	IC8702	C0DBAFG00029	IC	
	IC8706	C0DBGYY00887	IC	
	IC8900	TVR4G230-AB	ROM IC (C3FBTY000011)	
	IC8901	C3EBGC000056	IC	
	IC8902	C3EBGC000056	IC	
	IC9500	C0ZBZ0001816	IC	
		COILS		
	L2001	J0JYC0000328	COIL	
	L2310	J0JHC0000078	BEAD CORE	
	L2311	J0JHC0000078	BEAD CORE	
	L2312	J0JHC0000078	BEAD CORE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L2313	J0JHC0000078	BEAD CORE	
	L2750	J0JYC0000328	COIL	
	L2751	J0JYC0000328	COIL	
	L2752	J0JYC0000328	COIL	
	L2754	J0JYC0000328	COIL	
	L3000	J0JCC0000287	COIL	
	L3001	J0JCC0000287	COIL	
	L3002	J0JCC0000287	COIL	
	L3003	J0JCC0000287	COIL	
	L3004	J0JCC0000287	COIL	
	L3005	J0JCC0000287	COIL	
	L3006	G1C100MA0072	COIL	
	L3102	J0JCC0000287	COIL	
	L3103	J0JCC0000287	COIL	
	L3119	J0JCC0000287	COIL	
	L3120	J0JCC0000287	COIL	
	L3121	J0JCC0000287	COIL	
	L3122	J0JCC0000287	COIL	
	L3123	J0JCC0000287	COIL	
	L4000	J0JHC0000118	COIL	
	L4120	J0JHC0000118	COIL	
	L4150	J0JHC0000118	COIL	
	L4151	G1C100MA0426	INDUCTOR	
	L4152	J0JYC0000333	INDUCTOR	
	L4153	G1C470M00045	INDUCTOR	
	L4700	J0JYC0000311	BEAD CORE	
	L4701	J0JYC0000311	BEAD CORE	
	L4703	J0JYC0000311	BEAD CORE	
	L4704	J0JYC0000311	BEAD CORE	
	L4705	J0JYC0000311	BEAD CORE	
	L4706	J0JYC0000311	BEAD CORE	
	L4800	J0JGC0000020	CHIP BEADS	
	L4801	J0JGC0000020	CHIP BEADS	
	L4802	J0JGC0000020	CHIP BEADS	
	L4803	G1CR39J00009	COIL	
	L4804	G1CR39J00009	COIL	
	L4805	J0JCC0000278	COIL	
	L4900	G1C150MA0426	INDUCTOR	
	L4901	G1C150MA0426	INDUCTOR	
	L4902	G1C150MA0426	INDUCTOR	
	L4903	G1C150MA0426	INDUCTOR	
	L5601	J0JYC0000322	COIL	
	L5602	J0JYC0000322	COIL	
	L5603	EXC24CE900U	NOISE FILTER	
	L5604	EXC24CE900U	NOISE FILTER	
	L5605	EXC24CE900U	NOISE FILTER	
	L5606	EXC24CE900U	NOISE FILTER	
	L7201	J0JKB0000034	EMI FILTER	
	L7209	J0JKB0000034	EMI FILTER	
	L7302	J0JKB0000034	EMI FILTER	
	L7306	J0JKB0000034	EMI FILTER	
	L7502	J0JKA0000024	EMI FILTER	
	L7503	J0JKA0000024	EMI FILTER	
	L7504	J0JKA0000024	EMI FILTER	
	L7505	J0JKA0000024	EMI FILTER	
	L7600	G0C270MA0049	INDUCTOR	
	L8003	J0JCC0000287	COIL	
	L8005	J0JYC0000322	COIL	
	L8006	J0JYC0000322	COIL	
	L8007	J0JYC0000322	COIL	
	L8009	J0JYC0000021	BEAD CORE	
	L8015	J0JCC0000287	COIL	
	L8016	J0JCC0000287	COIL	
	L8100	G1C4R7MA0416	INDUCTOR	
	L8102	G1C3R3MA0425	INDUCTOR	
	L8600	J0JYC0000322	COIL	
	L8603	J0JCC0000409	BEAD CORE	
	L8604	J0JCC0000409	BEAD CORE	
	L8700	G1C4R7MA0416	INDUCTOR	
	L8701	G1C4R7MA0416	INDUCTOR	
	L9500	G1C470MA0490	INDUCTOR	
	L9501	G1C470MA0490	INDUCTOR	
	L9503	J0JHC0000075	BEAD COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		TRANSISTOR		
Q0900	B1ADCF000194	TRANSISTOR		
Q2800	B1ABCE000015	TRANSISTOR		
Q2801	B1ABCE000015	TRANSISTOR		
Q2802	B1ABCE000015	TRANSISTOR		
Q3104	B1ABCE000015	TRANSISTOR		
Q3105	B1ABCE000015	TRANSISTOR		
Q4120	B1ADNF000006	TRANSISTOR		
Q4121	B1ABNF000006	TRANSISTOR		
Q4122	B1ABNF000006	TRANSISTOR		
Q4150	DSC500100L	TRANSISTOR		
Q4151	DSA500100L	TRANSISTOR		
Q4152	DSA500100L	TRANSISTOR		
Q4153	B1ABCE000015	TRANSISTOR		
Q4154	B1CFQD000001	TRANSISTOR		
Q4513	B1ADCF000194	TRANSISTOR		
Q4514	B1HFCEA00001	TRANSISTOR		
Q4700	B1ABCE000015	TRANSISTOR		
Q4702	B1ABCE000015	TRANSISTOR		
Q4709	B1ABCE000015	TRANSISTOR		
Q4971	B1AAF0000004	TRANSISTOR		
Q4972	B1AAF0000004	TRANSISTOR		
Q4974	DSC2001SOL	TRANSISTOR		
Q7201	B1CERR000057	TRANSISTOR		
Q7202	B1HFCEA000020	TRANSISTOR		
Q7301	B1ADCE000022	TRANSISTOR		
Q7308	B1ADGJ000008	TRANSISTOR		
Q7309	B1ABGF000019	TRANSISTOR		
Q7310	B1ABCF0000255	TRANSISTOR		
Q7311	B1ABCF0000255	TRANSISTOR		
Q7312	B1ADCE000022	TRANSISTOR		
Q7313	B1CBGD000001	TRANSISTOR		
Q7314	B1ABCF0000255	TRANSISTOR		
Q7501	B1ABCF0000255	TRANSISTOR		
Q7502	B1ABCF0000255	TRANSISTOR		
Q7503	B1CHRE000008	TRANSISTOR		
Q7504	B1CHRE000008	TRANSISTOR		
Q7506	B1CHRE000008	TRANSISTOR		
Q7507	B1ABCF0000255	TRANSISTOR		
Q8100	B1MBEDA00027	TRANSISTOR		
Q8102	B1MBEDA00027	TRANSISTOR		
Q9501	B1MBCMA00001	TRANSISTOR		
Q9502	DSC200100L	TRANSISTOR		
Q9503	B1CFRM000024	TRANSISTOR		
Q9504	B1MBCMA00001	TRANSISTOR		
Q9505	B1MBCMA00001	TRANSISTOR		
Q9506	B1CFRM000024	TRANSISTOR		
		RESISTORS		
R0800	D0GA472JA023	C 4.7KOHM ,J, 1/16W		
R0900	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0901	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0902	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0903	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0904	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0905	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0906	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0907	D0GA272JA023	C 2.7KOHM ,J, 1/16W		
R0910	EXB28V472JX	C 4.7KOHM ,J, 1/16W		
R0911	D0GA473JA023	C 47KOHM ,J, 1/16W		
R0918	D0GA220JA023	C 22OHM ,J, 1/16W		
R0919	D0GA220JA023	C 22OHM ,J, 1/16W		
R0920	D0GA220JA023	C 22OHM ,J, 1/16W		
R0921	D0GA220JA023	C 22OHM ,J, 1/16W		
R0922	D0GA220JA023	C 22OHM ,J, 1/16W		
R0923	D0GA220JA023	C 22OHM ,J, 1/16W		
R0924	D0GA220JA023	C 22OHM ,J, 1/16W		
R0925	D0GA220JA023	C 22OHM ,J, 1/16W		
R0928	D0GA220JA023	C 22OHM ,J, 1/16W		
R0929	D0GA220JA023	C 22OHM ,J, 1/16W		
R0930	D0GA220JA023	C 22OHM ,J, 1/16W		
R0931	D0GA220JA023	C 22OHM ,J, 1/16W		
R0932	D0GA220JA023	C 22OHM ,J, 1/16W		
R0933	D0GA220JA023	C 22OHM ,J, 1/16W		

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R0934	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0935	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0936	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0937	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0938	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0939	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0940	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0941	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0942	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0943	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0944	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0945	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0947	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0948	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0949	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0951	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R0952	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0962	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0963	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0964	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0965	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0966	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0967	D0GA680JA023	C 68OHM ,J, 1/16W	
	R1000	D0GA331JA023	C 330OHM ,J, 1/16W	
	R1001	D1BB7151A073	7.15KOHM ,1/10W	
	R1004	D0GA103JA015	C 10KOHM ,J, 1/16W	
	R1005	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R1006	D0GA182JA023	C 1.8KOHM ,J, 1/16W	
	R1304	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1305	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1307	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1308	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1309	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R1311	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R1312	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1313	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2006	D0GA101JA023	C 100OHM ,J, 1/16W	
	R2009	D0GA101JA023	C 100OHM ,J, 1/16W	
	R2012	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R2016	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R2018	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2019	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2752	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R2753	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R2772	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2800	D1BA9530A014	C 953OHM , 1/16W	
	R2801	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R2802	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R2803	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R2804	D0GA103JA015	C 10KOHM ,J, 1/16W	
	R2805	D1BA2261A014	C 2.26KOHM , 1/16W	
	R2806	D0GA470JA023	C 47OHM ,J, 1/16W	
	R2807	D0GA562JA023	C 5.6KOHM ,J, 1/16W	
	R2808	D0GA184JA023	C 180KOHM ,J, 1/8W	
	R2809	D0GA103JA015	C 10KOHM ,J, 1/16W	
	R2810	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R2811	D0GA103JA015	C 10KOHM ,J, 1/16W	
	R2816	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3002	D0GA122JA023	C 1.2KOHM ,J, 1/16W	
	R3013	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3053	D1BD75R0A066	C 75OHM , 1/8W	
	R3054	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3055	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3056	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3057	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3058	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3059	D1BD75R0A066	C 75OHM , 1/8W	
	R3060	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3061	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3062	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3063	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3064	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3070	D0GA101JA023	C 100OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R3101	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3102	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3103	D1BD75R0A066	C 75OHM , 1/8W	
	R3105	D1BD75R0A066	C 75OHM , 1/8W	
	R3119	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3123	EXB28V680JX	68OHM ,J, 1/10W	
	R3126	D0GA680JA023	C 68OHM ,J, 1/16W	
	R3148	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3175	D1BD75R0A066	C 75OHM , 1/8W	
	R3176	D1BD75R0A066	C 75OHM , 1/8W	
	R3178	D1BD75R0A066	C 75OHM , 1/8W	
	R3184	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R3185	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R3190	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3191	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3192	D0GA820JA023	82OHM ,J, 1/16W	
	R3193	D0GA820JA023	82OHM ,J, 1/16W	
	R3194	D0GA331JA023	C 330OHM ,J, 1/16W	
	R3195	D0GA331JA023	C 330OHM ,J, 1/16W	
	R3196	D0GA820JA023	82OHM ,J, 1/16W	
	R3197	D1BD75R0A066	C 75OHM , 1/8W	
	R3198	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3199	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3200	D0GA333JA023	C 33KOHM ,J, 1/16W	
	R3201	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3202	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3203	D1BD75R0A066	C 75OHM , 1/8W	
	R3224	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3225	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3226	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3227	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3228	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3931	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R3933	D0GA680JA023	C 68OHM ,J, 1/16W	
	R3960	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4000	EXB28VR000X	0OHM , 1/10W	
	R4001	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4002	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4024	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4025	EXB28V103JX	10KOHM ,J, 1/10W	
	R4027	EXB28V103JX	10KOHM ,J, 1/10W	
	R4029	EXB28VR000X	0OHM , 1/10W	
	R4034	EXB28VR000X	0OHM , 1/10W	
	R4035	EXB28VR000X	0OHM , 1/10W	
	R4048	EXB28VR000X	0OHM , 1/10W	
	R4049	EXB28VR000X	0OHM , 1/10W	
	R4059	EXB28VR000X	0OHM , 1/10W	
	R4060	EXB28VR000X	0OHM , 1/10W	
	R4061	EXB28VR000X	0OHM , 1/10W	
	R4062	EXB28VR000X	0OHM , 1/10W	
	R4120	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4121	EXB28V100JX	10OHM ,J, 1/10W	
	R4122	EXB28V100JX	10OHM ,J, 1/10W	
	R4123	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4124	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4125	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4126	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4128	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4129	D0GA242JA015	C 2.4KOHM ,J, 1/16W	
	R4133	ERJ2GEJ102X	F 1KOHM ,J, 1/16W	
	R4134	ERJ2GEJ102X	F 1KOHM ,J, 1/16W	
	R4135	D0GA223JA015	C 22KOHM ,J, 1/16W	
	R4138	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R4139	D0GA223JA015	C 22KOHM ,J, 1/16W	
	R4140	D0GAR00Z0001	C 0OHM ,J, 1/16W	
	R4141	D0GA222JA015	C 2.2KOHM ,J, 1/16W	
	R4146	D0GA471JA015	C 470OHM ,J, 1/16W	
	R4147	D0GAR00Z0001	C 0OHM ,J, 1/16W	
	R4148	D0GAR00Z0001	C 0OHM ,J, 1/16W	
	R4150	D0GD391JA052	C 390OHM ,J, 1/16W	
	R4151	D1BA2201A023	C 2.2KOHM ,J, 1/16W	
	R4152	D1BA3002A023	C 30KOHM ,J, 1/16W	
	R4153	D1BA2001A023	C 2KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4154	D1BA1002A023	C 10KOHM ,J, 1/16W	
	R4155	D1BA1002A023	C 10KOHM ,J, 1/16W	
	R4157	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R4158	D0GD271JA052	C 270OHM ,J, 1/16W	
	R4159	D1BA3301A023	C 3.3KOHM ,J, 1/16W	
	R4160	D1BA3301A023	C 3.3KOHM ,J, 1/16W	
	R4161	D1BA3601A023	3.6KOHM , 1/10W	
	R4162	D1BA2201A023	C 2.2KOHM ,J, 1/16W	
	R4166	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4167	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4168	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4169	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4170	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4171	D1BA3002A023	C 30KOHM ,J, 1/16W	
	R4172	D1BA1203A023	C 120KOHM ,J, 1/16W	
	R4173	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4178	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R4181	D1BA1002A014	C 10KOHM , 1/16W	
	R4182	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4184	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R4189	D0GBR00J0004	C 0OHM ,J, 1/10W	
	R4548	D0GA220JA023	C 0OHM ,J, 1/10W	
	R4549	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4550	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4551	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4552	D0GA560JA023	C 56OHM ,J, 1/16W	
	R4554	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4556	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4557	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4560	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4563	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4702	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4708	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4709	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4710	EXB28V473JX	47KOHM ,J, 1/16W	
	R4711	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4715	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4721	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4722	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4723	EXB28V473JX	47KOHM ,J, 1/16W	
	R4724	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4739	D0GA220JA023	C 22OHM ,J, 1/16W	
	R4788	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4794	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4795	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4796	EXB28V473JX	47KOHM ,J, 1/16W	
	R4797	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4798	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R4805	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4806	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4807	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4910	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4911	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4912	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4913	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4914	EXB28V220JX	22OHM ,J, 1/2W	
	R4915	D0GF3R3JA048	C 3.3OHM , 1/8W	
	R4916	D0GF3R3JA048	C 3.3OHM , 1/8W	
	R4917	D0GF3R3JA048	C 3.3OHM , 1/8W	
	R4918	D0GF3R3JA048	C 3.3OHM , 1/8W	
	R4919	D0GFR00J0005	C 0OHM ,J, 1/16W	
	R4921	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4970	D1BB1403A073	140KOHM ,J, 1/16W	
	R4971	D1BB1403A073	140KOHM ,J, 1/16W	
	R4972	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4973	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4974	D0GF122JA048	C 1.2KOHM ,J, 1/16W	
	R4978	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R4979	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R4984	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4985	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4987	D0GF122JA048	C 1.2KOHM ,J, 1/16W	
	R5002	D0GA683JA023	C 68KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5003	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5006	D0GA563JA023	56KOHM ,J, 1/16W	
	R5007	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R5009	D1BA5602A023	C 56KOHM ,J, 1/16W	
	R5012	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R5030	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5104	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5152	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R5173	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R5175	D0GA680JA023	C 68OHM ,J, 1/16W	
	R5176	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R5178	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R5179	D0GA153JA023	C 15KOHM ,J, 1/10W	
	R5180	D0GA683JA023	C 68KOHM ,J, 1/16W	
	R5181	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5606	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5607	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5608	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5609	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R6940	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R6956	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R6957	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R7105	DOB1106JA033	10MOHM ,J, 1W	
	R7201	ERX1SJR22	0.22OHM ,J, 1W	
	R7202	ERX1SJR22	0.22OHM ,J, 1W	
	R7203	D0GD683JA052	C 68KOHM ,J, 1/8W	
	R7205	D0AF391JA112	390OHM ,J, 1/2W	
	R7206	D0GD393JA052	C 39KOHM ,J, 1/8W	
	R7207	D0GD470JA052	47OHM ,J, 1/8W	
	R7208	D0AF220JA112	22OHM ,J, 1/2W	
	R7209	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7210	ERX1SJR22	0.22OHM ,J, 1W	
	R7215	D1BD1202A066	C 1KOHM ,J, 1/8W	
	R7216	D1BD3302A066	C 33KOHM ,J, 1/8W	
	R7219	D1BD7503A066	C 750KOHM ,J, 1/8W	
	R7221	D0GD683JA052	C 68KOHM ,J, 1/8W	
	R7231	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7232	D0GD472JA052	C 4.7KOHM ,J, 1/8W	
	R7233	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7234	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7235	D1BD4701A066	C 4.7KOHM ,J, 1/8W	
	R7240	ERJ8ENF1504	C 1.5MOHM ,J, 1/4W	
	R7241	ERJ8ENF1504	C 1.5MOHM ,J, 1/4W	
	R7242	ERJ8ENF1504	C 1.5MOHM ,J, 1/4W	
	R7243	D1BD6803A066	C 680KOHM ,J, 1/8W	
	R7244	D1BD5102A066	C 5.1KOHM ,J, 1/8W	
	R7301	D0GD223JA052	C 22KOHM ,J, 1/8W	
	R7302	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7303	D0GD470JA052	47OHM ,J, 1/8W	
	R7305	D1BD1803A066	C 180KOHM ,J, 1/8W	
	R7313	D1BD1803A066	C 180KOHM ,J, 1/8W	
	R7314	D1BD1203A066	C 120KOHM ,J, 1/8W	
	R7330	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R7331	D0GD301JA052	C 300OHM ,J, 1/8W	
	R7332	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7333	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7353	D0GD301JA052	C 300OHM ,J, 1/8W	
	R7354	D0GD113JA052	C 11KOHM ,J, 1/8W	
	R7355	D0GD100JA052	C 10OHM ,J, 1/8W	
	R7356	D0GD301JA052	C 300OHM ,J, 1/8W	
	R7357	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7358	D0AF222JA112	2.2KOHM ,J, 1/2W	
	R7359	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7360	ERX1SJR1R0	1OHM ,J, 1W	
	R7361	D0GD105JA052	C 1MOHM ,J, 1/8W	
	R7362	D0GD821JA052	C 820OHM ,J, 1/10W	
	R7364	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7365	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7367	D0GD152JA052	C 1.5KOHM ,J, 1/8W	
	R7376	D0GD223JA052	C 22KOHM ,J, 1/8W	
	R7377	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7380	ERX1SJR22	0.22OHM ,J, 1W	
	R7381	ERX1SJR22	0.22OHM ,J, 1W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R7387	D0GD152JA052	C 1.5KOHM ,J, 1/8W	
	R7388	D0GD162JA052	C 1.6KOHM ,J, 1/8W	
	R7389	D0GD162JA052	C 1.6KOHM ,J, 1/8W	
	R7392	D0GD392JA052	C 3.9KOHM ,J, 1/8W	
	R7393	D0GD101JA052	C 100OHM ,J, 1/8W	
	R7394	D0GD101JA052	C 100OHM ,J, 1/8W	
	R7395	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7396	ERJ8ENF2204V	C 2.2MOHM ,J, 1/4W	
	R7397	ERJ8ENF2204V	C 2.2MOHM ,J, 1/4W	
	R7398	ERJ8ENF2204V	C 2.2MOHM ,J, 1/4W	
	R7399	ERJ8ENF2204V	C 2.2MOHM ,J, 1/4W	
	R7402	D1BD6651A066	C 6.65KOHM ,J, 1/8W	
	R7406	D1BD1741A066	C 1.74KOHM ,J, 1/8W	
	R7407	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R7408	D1BD7151A066	C 7.15KOHM ,J, 1/8W	
	R7409	D1BD1432A066	C 1.43KOHM ,J, 1/8W	
	R7501	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7502	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7503	D0GD472JA052	C 4.7KOHM ,J, 1/8W	
	R7504	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7505	D0GD222JA052	C 2.2KOHM ,J, 1/8W	
	R7513	D1BD3321A066	C 3.32KOHM ,J, 1/8W	
	R7514	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7515	D1BD1822A066	C 18.2KOHM ,J, 1/8W	
	R7516	D0GD153JA052	15KOHM ,J, 1/8W	
	R7517	D0GD153JA052	15KOHM ,J, 1/8W	
	R7518	D0GD153JA052	15KOHM ,J, 1/8W	
	R7519	D0GD153JA052	15KOHM ,J, 1/8W	
	R7524	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7527	D0GD153JA052	15KOHM ,J, 1/8W	
	R7528	D0GD153JA052	15KOHM ,J, 1/8W	
	R7529	D0GD472JA052	C 4.7KOHM ,J, 1/8W	
	R7530	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7531	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7532	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7535	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7600	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7601	D0GD105JA052	C 1MOHM ,J, 1/8W	
	R7603	D1BD7872A066	78.7KOHM ,J, 1/8W	
	R7604	D1BD2212A066	C 22.1KOHM ,J, 1/8W	
	R7605	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7606	D0GD683JA052	C 68KOHM ,J, 1/8W	
	R8001	D0GA331JA023	C 330OHM ,J, 1/16W	
	R8100	D1BB1271A087	C 1.27KOHM ,J, 1/16W	
	R8102	D1BB2101A074	C 2.1KOHM ,J, 1/10W	
	R8104	D1BB6200A087	C 620OHM ,J, 1/16W	
	R8106	D1BB2001A074	C 2KOHM ,J, 1/10W	
	R8108	D0GB100JA065	C 10OHM ,J, 1/10W	
	R8110	D0GB100JA065	C 10OHM ,J, 1/10W	
	R8114	D0GA243JA023	C 24KOHM ,J, 1/16W	
	R8118	D0GA183JA023	C 18KOHM ,J, 1/16W	
	R8200	D1BA2400A023	C 240OHM ,J, 1/16W	
	R8203	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8204	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8205	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8206	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8207	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8208	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8217	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8218	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8219	D1BA2400A023	C 240OHM ,J, 1/16W	
	R8220	D1BA2400A023	C 240OHM ,J, 1/16W	
	R8221	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8222	EXB28V330JX	33OHM ,J, 1/16W	
	R8223	EXB28V330JX	33OHM ,J, 1/16W	
	R8224	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8225	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8301	D0GA681JA023	680OHM ,J, 1/16W	
	R8302	D0GA360JA023	C 360OHM ,J, 1/16W	
	R8303	D0GA360JA023	C 360OHM ,J, 1/16W	
	R8304	D1BA6201A023	C 6.2KOHM ,J, 1/16W	
	R8305	D1BA6201A023	C 6.2KOHM ,J, 1/16W	
	R8306	D0GA243JA023	C 24KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8438	EXB2HV103JV	10KOHM ,J, 1/16W	
	R8592	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8606	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8607	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8608	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R8609	D1BA6491A023	C 6.49KOHM ,J, 1/16W	
	R8610	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8615	D0GA105JA023	C 1MOHM ,J, 1/16W	
	R8616	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8617	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8624	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8625	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8626	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8627	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8628	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8629	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8630	D1HG1038A002	F 10KOHM , 1/16W	
	R8632	EXB28V560JX	C 56OHM ,J, 1/16W	
	R8634	EXB28V560JX	C 56OHM ,J, 1/16W	
	R8636	D0GA220JA023	C 220OHM ,J, 1/16W	
	R8639	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8640	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8641	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8642	D0GBR00J0004	C 0OHM ,J, 1/16W	
	R8660	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8661	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8662	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8663	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8664	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8665	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8666	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8667	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8668	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8669	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8670	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8671	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8672	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8673	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8674	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8675	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8676	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8700	D1BB2402A055	C 24KOHM ,J, 1/16W	
	R8701	D1BB6041A055	C 6.04KOHM ,J, 1/16W	
	R8702	D0GA390JA023	C 390OHM ,J, 1/16W	
	R8703	D1BB4301A055	C 4.3KOHM , 1/16W	
	R8704	D1BB2002A055	C 20KOHM ,J, 1/8W	
	R8705	D1BB3001A055	C 3KOHM , 1/16W	
	R8706	D0GA390JA023	C 390OHM ,J, 1/16W	
	R8707	D1BB5601A055	C 5.6KOHM ,J, 1/16W	
	R8709	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8710	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8755	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8767	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8858	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8859	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8860	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8861	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8863	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8866	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8871	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8872	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8909	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R8910	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8913	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8914	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8915	EXB2HV680JV	68OHM ,J, 1/16W	
	R8924	EXB28V680JX	68OHM ,J, 1/16W	
	R8925	EXB28V680JX	68OHM ,J, 1/16W	
	R8965	EXB28V103JX	10KOHM ,J, 1/16W	
	R9101	EXB28VR000X	0OHM , 1/10W	
	R9102	EXB28VR000X	0OHM , 1/10W	
	R9103	EXB28VR000X	0OHM , 1/10W	
	R9104	EXB28VR000X	0OHM , 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R9105	EXB28VR000X	0OHM , 1/10W	
	R9106	EXB28VR000X	0OHM , 1/10W	
	R9107	EXB28VR000X	0OHM , 1/10W	
	R9108	EXB28VR000X	0OHM , 1/10W	
	R9500	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R9501	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9502	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R9503	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R9504	D1BD3R30A066	C 3.30HM , 1/8W	
	R9505	D1BD3R30A066	C 3.30HM , 1/8W	
	R9506	D1BD3R30A066	C 3.30HM , 1/8W	
	R9507	D1BD3R30A066	C 3.30HM , 1/8W	
	R9508	D1BD3R30A066	C 3.30HM , 1/8W	
	R9509	D1BD3R30A066	C 3.30HM , 1/8W	
	R9510	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R9511	D1BA2152A014	C 21.5KOHM , 1/16W	
	R9512	D1BA12020002	C 12KOHM , 1/16W	
	R9513	D1BA2322A014	C 23.2KOHM , 1/16W	
	R9514	D0GA331JA023	C 330OHM ,J, 1/16W	
	R9515	D1BA4703A014	C 470KOHM , 1/16W	
	R9516	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R9517	D0GA203JA023	C 20KOHM ,J, 1/16W	
	R9519	D0GFR20JA020	C 0.2OHM ,J, 1/4W	
	R9520	D0GFR20JA020	C 0.2OHM ,J, 1/4W	
	R9521	D0GFR20JA020	C 0.2OHM ,J, 1/4W	
	R9523	D0GD304JA052	C 300OHM ,J, 1/8W	
	R9524	D0GD244JA052	C 240KOHM ,J, 1/8W	
	R9525	D0GD203JA052	C 20KOHM ,J, 1/8W	
	R9526	D0GA134JA023	C 130KOHM ,J, 1/16W	
	R9527	D0GA203JA023	C 20KOHM ,J, 1/16W	
	R9528	D0GD220JA059	C 22OHM ,J, 1/4W	
	R9529	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R9540	D0GDR0JA052	C 1OHM ,J, 1/8W	
	R9541	D0GD244JA052	C 240KOHM ,J, 1/8W	
	R9542	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9543	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9544	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9547	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R9548	D0GA101JA015	C 100OHM ,J, 1/16W	
	R9549	D0GA101JA015	C 100OHM ,J, 1/16W	
	R9550	D0GD220JA059	C 22OHM ,J, 1/4W	
	R9551	D0GA473JA015	C 47KOHM ,J, 1/16W	
	R9556	D0GD100JA059	C 10OHM ,J, 1/4W	
	R9557	D0GD100JA059	C 10OHM ,J, 1/4W	
			TRANSFORMERS	
⚠	T7201	G4DYA0000289	TRANSFORMER	
⚠	T7301	G4DYA0000284	TRANSFORMER	
			OTHERS	
	A09	K1KY15BA0324	CONNECTOR	
	A10	K1KY07AA0719	CONNECTOR	
	A12	K1KA04AA0190	CONNECTOR	
	A14	K1MN80BA0296	CONNECTOR	
⚠	CF7101	D4CAY8R20001	THERMISTOR	
⚠	CF7102	D4CAY8R20001	THERMISTOR	
	CN0100	K1KA14A00248	CONNECTOR	
⚠	F7101	K5D502BNA005	FUSE	
	F7101-1	K3GE1ZZ00001	FUSE HOLDER	
	F7101-2	K3GE1ZZ00001	FUSE HOLDER	
	FL4000	EXC28CE201U	CHOKE COIL	
	FL4001	EXC28CE201U	CHOKE COIL	
	FL4002	EXC28CE201U	CHOKE COIL	
	FL4003	EXC28CE201U	CHOKE COIL	
	FL4004	EXC28CE201U	CHOKE COIL	
	FL4005	EXC28CE201U	CHOKE COIL	
	FL4006	EXC28CE201U	CHOKE COIL	
	FL4007	EXC28CE201U	CHOKE COIL	
	JK1000	K1FY119D0015	CONNECTOR	
	JK1001	K1FY119D0015	CONNECTOR	
	JK1002	K1FY119E0026	CONNECTOR	
	JK1030	K1FY104E0009	USB CONNECTOR	
	JK1031	K1FY104A0020	TERMINAL	
	JK1040	K2LC1YYA0016	TERMINAL	
	JK3000	K1U916A00003	TERMINAL	

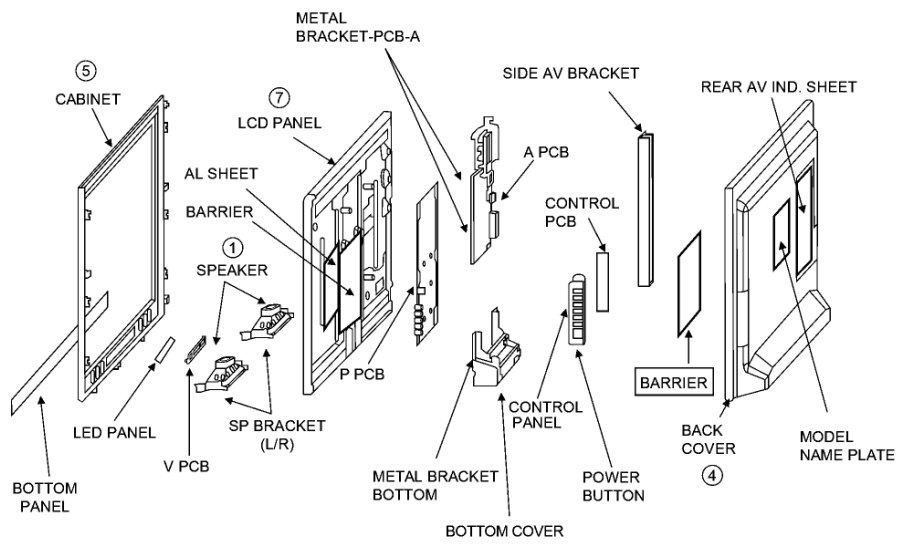


Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	JK3300	K1U410B00001	TERMINAL	
	JK3703	K1FY315A0010	CONNECTOR	
	JK8850	K1NA12E00016	CONNECTOR	
	JS0021	D0GAR00J0005	CHIP RESISTOR	
	JS0028	D0GAR00J0005	CHIP RESISTOR	
	JS7402	D0GDR00J0004	CHIP RESISTOR	
	JS7404	D0GDR00J0004	CHIP RESISTOR	
	JS7502	D0GDR00J0004	CHIP RESISTOR	
	KA10	K1KA07B00135	CONNECTOR	
	LD2	K1KY12BA0322	CONNECTOR	
	LD4	K1KY14BA0302	CONNECTOR	
⚠	LF7101	G0B650H00003	LINE FILTER	
⚠	LF7102	G0B103H00010	LINE FILTER	
⚠	LF7103	G0B103H00010	LINE FILTER	
	P1	K1KA02B00295	CONNECTOR	
	P2	K1KY16BA0311	CONNECTOR	
	P4	K1KA14BA0311	CONNECTOR	
	PA4150	K5H1622A0031	FUSE	
	PA7503	K5H502YA0063	FUSE	
	PA7504	K5H502YA0063	FUSE	
	PA7601	K5H502YA0063	FUSE	
	PC7301	B3PAA0000363	PHOTO COUPLER	
	PC7302	B3PAA0000363	PHOTO COUPLER	
	PC7303	B3PAA0000363	PHOTO COUPLER	
	RM2800	PNJ4815M01TV	REMOCON SENSOR	
	SN2800	B3JB00000078	PHOTO DETECTOR	
⚠	SW7401	K0F122A00203	SWITCH	
	SW7402	EVQ11G05R	SWITCH	
	SW7403	EVQ11G05R	SWITCH	
	SW7404	EVQ11G05R	SWITCH	
	SW7406	EVQ11G05R	SWITCH	
	SW7407	EVQ11G05R	SWITCH	
⚠	TU4800A	ENGS7302D5F	TUNER	
	TC1	K1MY60B00005	CONNECTOR	
	TC2	K1MY60B00005	CONNECTOR	
	TC3	K1MN80BA0296	CONNECTOR	
	X8300	H0J245500113	CRYSTAL OSCILLATOR	
	X8600	H0J250500109	CRYSTAL RESONATOR	
	ZA0050	K4ZZ01000267	SHIELD CHIP	
	ZA0051	K4ZZ01000267	SHIELD CHIP	
	ZA0052	K4ZZ01000267	SHIELD CHIP	
	ZA0053	K4ZZ01000267	SHIELD CHIP	
	ZA0054	K4ZZ01000267	SHIELD CHIP	
	ZA7001	K4AD01A00003	TERMINAL	
	ZA7003	K4AD01A00003	TERMINAL	
	ZA8800	K4AD01D00008	TERMINAL	
	ZA8801	K4AD01D00008	TERMINAL	
	ZA8802	K4AD01D00008	TERMINAL	
	ZA8803	K4AD01D00008	TERMINAL	

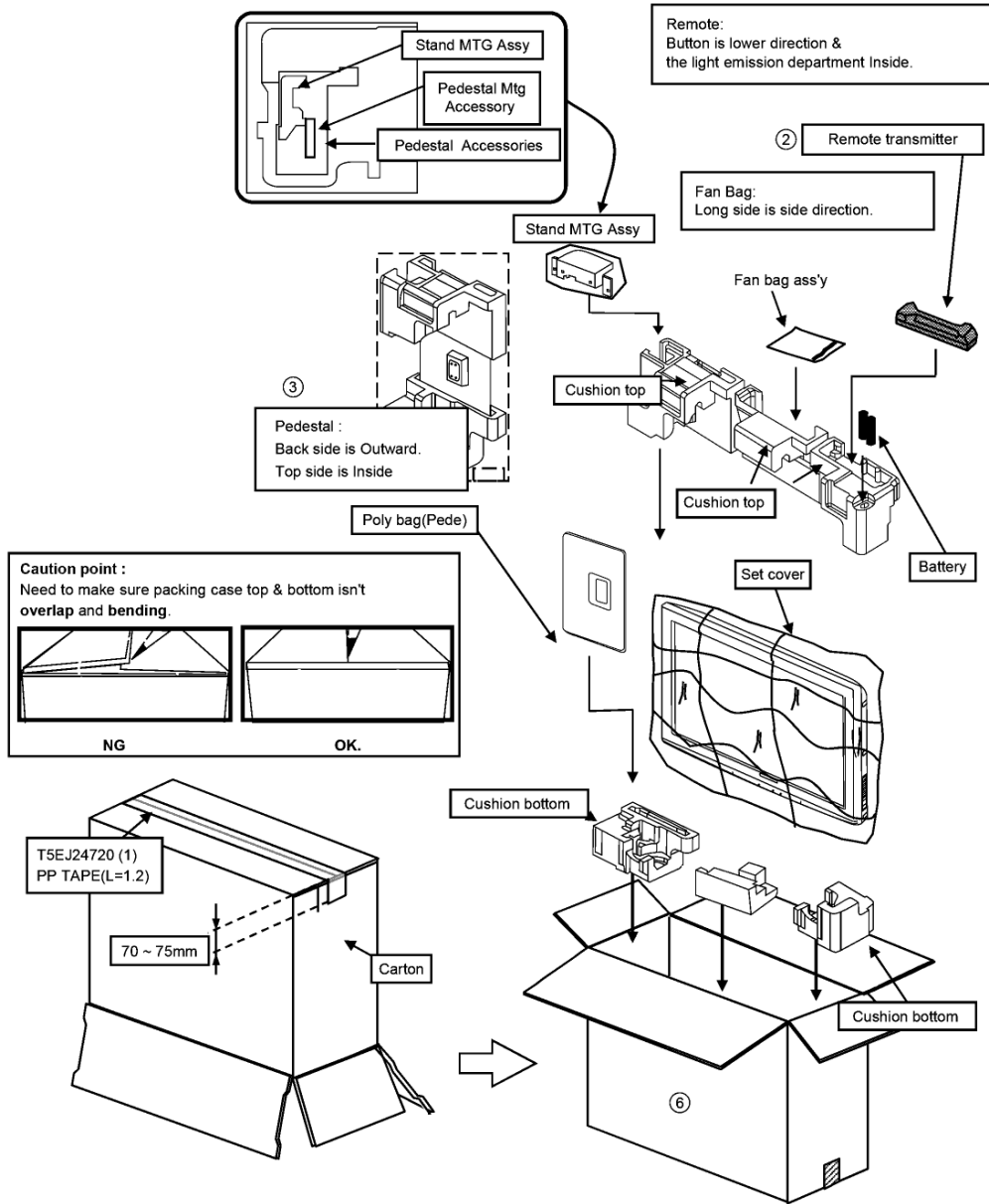
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**Model No. : TH-L32E3R Parts Location**










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**Model No. : TH-L32E3R Packing Exploded View**



## Model No. : TH-L32E3R Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K2CQ2YY00065	AC POWER CORD		
	1	L0AA16C00010	SPEAKER		
	2	N2QAYB000604	REMOTE TRANSMITTER		
	3	TBL5ZX0111	PEDESTAL ASSY		
		TBL5ZX0187	STAND MOUNTING ASSY		
		TBM4GC658-1	MODEL NAME PLATE		
		TBX4GA02101	POWER BUTTON		
		TBX4GA02701	CONTROL BUTTON		
		THE4GJ001J	SCREW		
		THEJ036J	SCREW		
		THEJ0389	SCREW		
		THTD029J	SCREW		
		TKKL5521	M6 CAP		
		TKP4GA06402	SIDE AV BRACKET		
		TKP4GA06701	CONTROL PANEL		
		TKP4GA06901	LED PANEL		
		TKX4GA04901	SP BRACKET		
		TKX4GA05001	SP BRACKET		
		TPD4GA0220	BOTTOM CUSHION		
		TPD4GA0221	TOP CUSHION		
		TPE4GH031	SET COVER		
		TQZ4GB463	FAN BAG ASSY		
		TSXM278LYUH	LVDS CABLE		
	4	TTU4GA0570	BACK COVER ASSY		
	5	TTY4GA0202	CABINET ASSY		
	6	TXFPC01MPURA	PACKING CASE ASSY		
	7	VVX32F101G00	LCD PANEL		
		XSS4+16FJK	SCREW		
		XTB4+15JFJ	SCREW		
		XTV3+10GFJK	SCREW		
		XTV3+8JFJ	SCREW		
		XTW3+10TFJ	SCREW		
		XYN3+C8FJ	SCREW		
		XYN4+F30FJK	SCREW		
Electrical Replacement Part List					
	RTL	TZT/A1MPUR	A PRINT ASSY		
	RTL	TNPA5364BA	P PRINT		
	RTL	TNPA5377AL	LD BOARD		
	RTL	TNPA5378BA	KA PRINT		
	RTL	TNPA5391BA	TC BOARD		