

Service Manual

LCD TV



Model No. TH-L32DT30R

Chassis: LA18

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 ∞ .

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

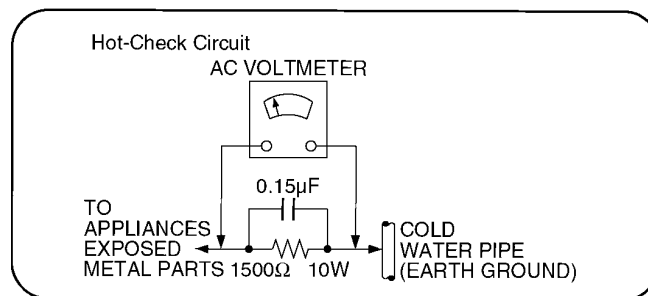


Figure 1

2 Warning

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

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

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

Caution

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

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

2.2. About lead free solder (PbF)

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

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

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

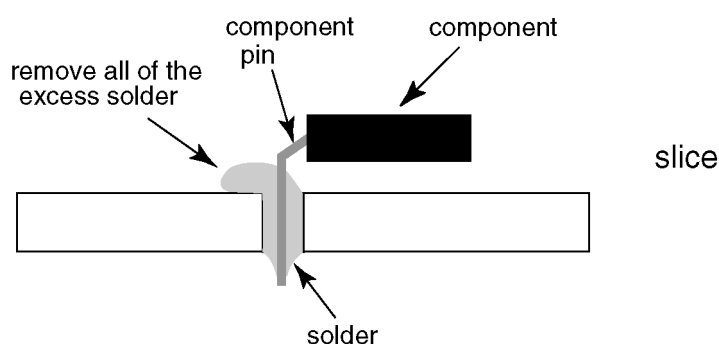
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

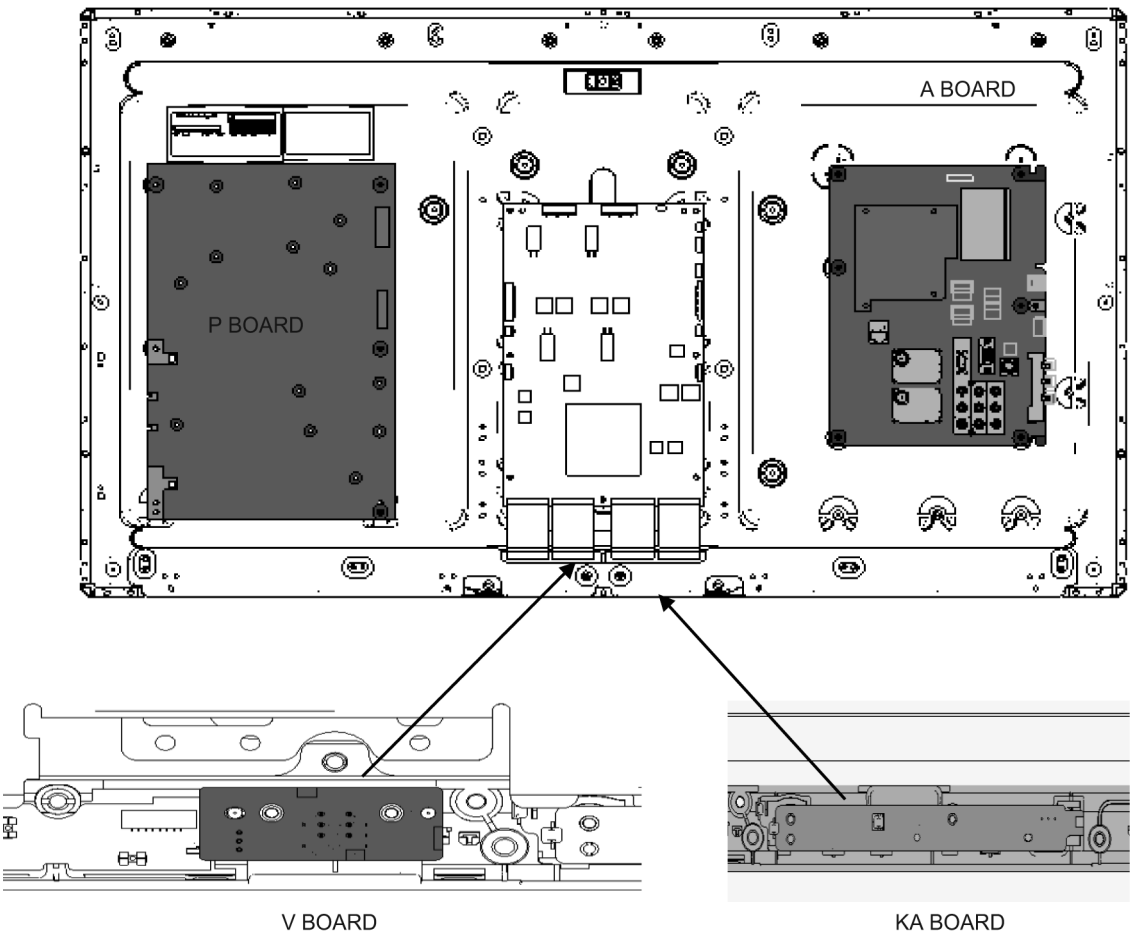
Caution

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



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, OFDM, ADV, LDA3, STBY EEP	Repairable
P BOARD	Power Supply	Non Repairable
KA BOARD	Remote, LED, Luminance Sensor	Repairable
S BOARD	Switch	Repairable
V BOARD	Communicate with 3D glass	Repairable

4 Specifications

Power Source	AC 220 - 240 V, 50 / 60 Hz
Power Consumption	
Power Rating	107 W
Standby Condition	0.3 W
Display panel	
Aspect Ratio	16:9
Visible screen size	80 cm (diagonal) 698 mm (W) × 393 mm (H)
Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Sound	
Speaker	(160 mm × 42 mm) × 2, 8 Ω
Audio Output	20 W (10 W + 10 W)
Headphones	M3 (3.5 mm) stereo mini Jack × 1
PC signals	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 5 SECAM D, K 6 SECAM K1 7 NTSC M (NTSC 3.58 / 4.5MHz)	Reception of broadcast transmission and playback from video cassette tape recorders.
	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 12 NTSC 3.58 / 6.0 MHz 13 NTSC 3.58 / 6.5 MHz 14 SECAM I	Playback from special VCR's or DVD.
	15 PAL 60 Hz / 5.5 MHz 16 PAL 60 Hz / 6.0 MHz 17 PAL 60 Hz / 6.5 MHz	Playback from Special Disc Players and Special VCR's or DVD.

Receiving Channels (Analogue TV)	
VHF BAND	2 - 12 (PAL / SECAM B, K1) 0 - 12 (PAL B AUST.) 1 - 9 (PAL B N.Z.) 1 - 12 (PAL / SECAM D) 1 - 12 (NTSC M JAPAN) 2 - 13 (NTSC M USA)
UHF BAND	21 - 69 (PAL G, H, I / SECAM G, K, K1) 28 - 69 (PAL B AUST.) 13 - 57 (PAL D, K) 13 - 62 (NTSC M JAPAN) 14 - 69 (NTSC M USA)
CATV	S1 - S20 (OSCAR) 1 - 125 (USA CATV) C13 - C49 (JAPAN) S21 - S41 (HYPER) Z1 - Z37 (CHINA) 5A, 9A (AUST.)

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

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

Audio Output	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms] (high impedance)
Others	HDMI 1 - 4 Input	TYPE A Connectors	• This TV supports 'HDAVI Control 5' function.
	PC Input	HIGH-DENSITY D-SUB 15 PIN	R / G / B: 0.7 V[p-p] (75 Ω)
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic	HD / VD: TTL LEVEL 2.0-5.0 V [p-p] (high impedance)
	Card Slot	SD Card slot × 1	
	USB 1/2	USB 2.0 TYPE A Connectors	DC 5 V, Max. 500 mA
	ETHERNET	10BASE-T / 100BASE-TX	
Dimension (W x H x D)		751 mm × 502 mm × 230 mm (With Pedestal)	
		751 mm × 468 mm × 72 mm (TV only)	
Mass		13.0 kg Net (With Pedestal)	
		10.0 kg Net (TV only)	
3D Eyewear			
Lens type		Liquid Crystal Shutter	
Usage temperature range		0°C - 40 °C	
Charging power supply		DC 5 V (supplied by USB terminal of a Panasonic TV)	
Battery		Lithium-ion polymer rechargeable battery	
		DC 3.7 V, 70 mAh	
		Operation time* ¹ : Approx. 30 hours	
		Charging time* ¹ : Approx. 2 hours	
Viewing range*²		Transmitter for 3D Eyewear	
		Within 3.2 m from front surface	
		(Within ± 35° horizontal, ± 20° vertical)	
Materials		Main body: Resin	
		Lens section: Liquid crystal glass	
Dimensions (not including nose pad part)			
Width		170.1 mm	
Height		41.2 mm	
Overall length		169.8 mm	
Mass		Approx. 38 g Net	

*¹ Operation time/charging time

- The battery deteriorates after repeated use, and the operation time eventually becomes short. The figures above are at shipping from the factory, and are not a guarantee of performance.

*² Viewing range

- The location of the 3D Eyewear transmitter differs depending on the model of television.
- There are differences in the viewing range of the 3D Eyewear among individuals.
- The 3D Eyewear may not operate correctly at the outside of the viewing range.

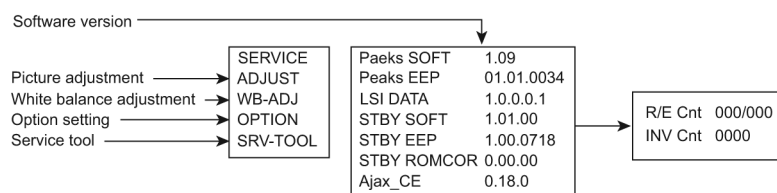
Note

- 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.

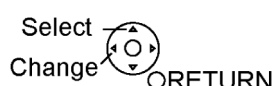
5.2.7. Hotel Mode

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

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6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

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

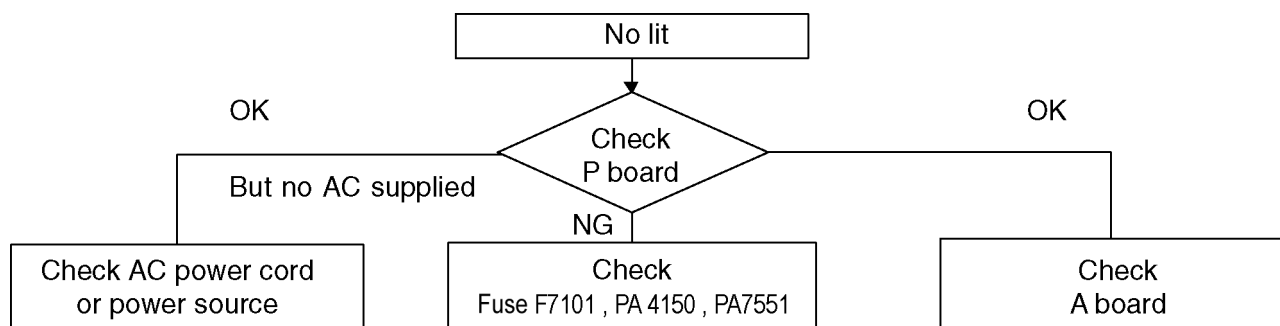
LCD		Notes	Board name
Times	SOS		
1	BL SOS		A Board P Board
2	FAN SOS	Main CPU	A Board
3	SOS (Tuner Vcc down)		A Board
4	SUB12V SENSE SOS		A Board
7	SUB3.3V SENSE SOS		A Board
9	SOUND SOS		A Board P Board
10	ZWEI2 SOS	Main CPU	A Board TC unit on panel
12	BE(sLD) SOS		A Board
13	EMERGENCY SOS		A Board
14	IROM SOS		A Board

6.3. No Power

First check point

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

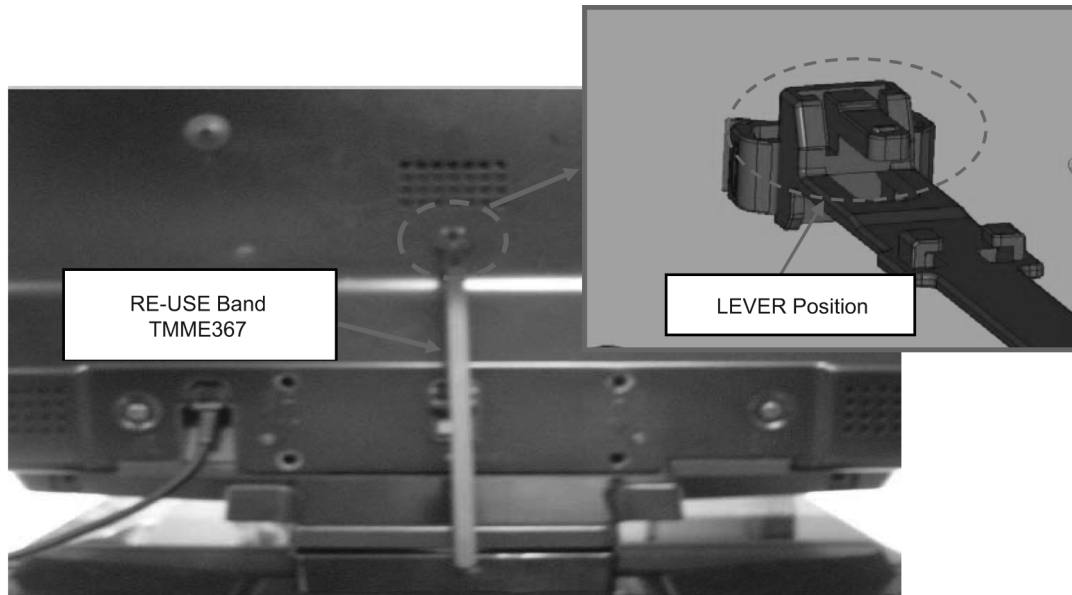
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

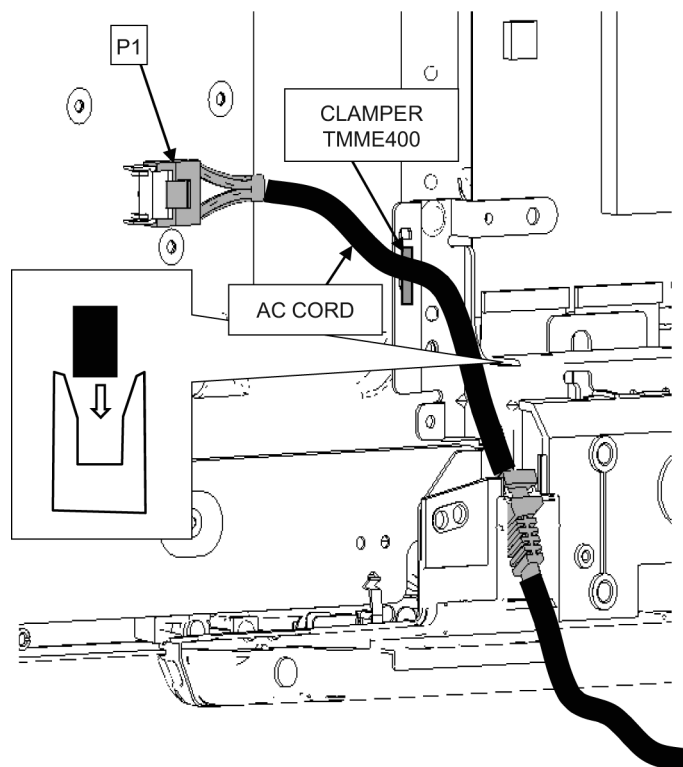
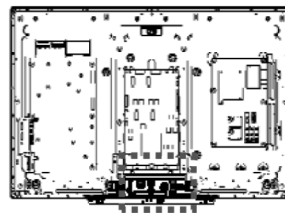
7.1. AC Cord Dressing

1. AC Cord is wrapped in the Protection Sheet.
2. It fixes to the Back cover in the re-use band.



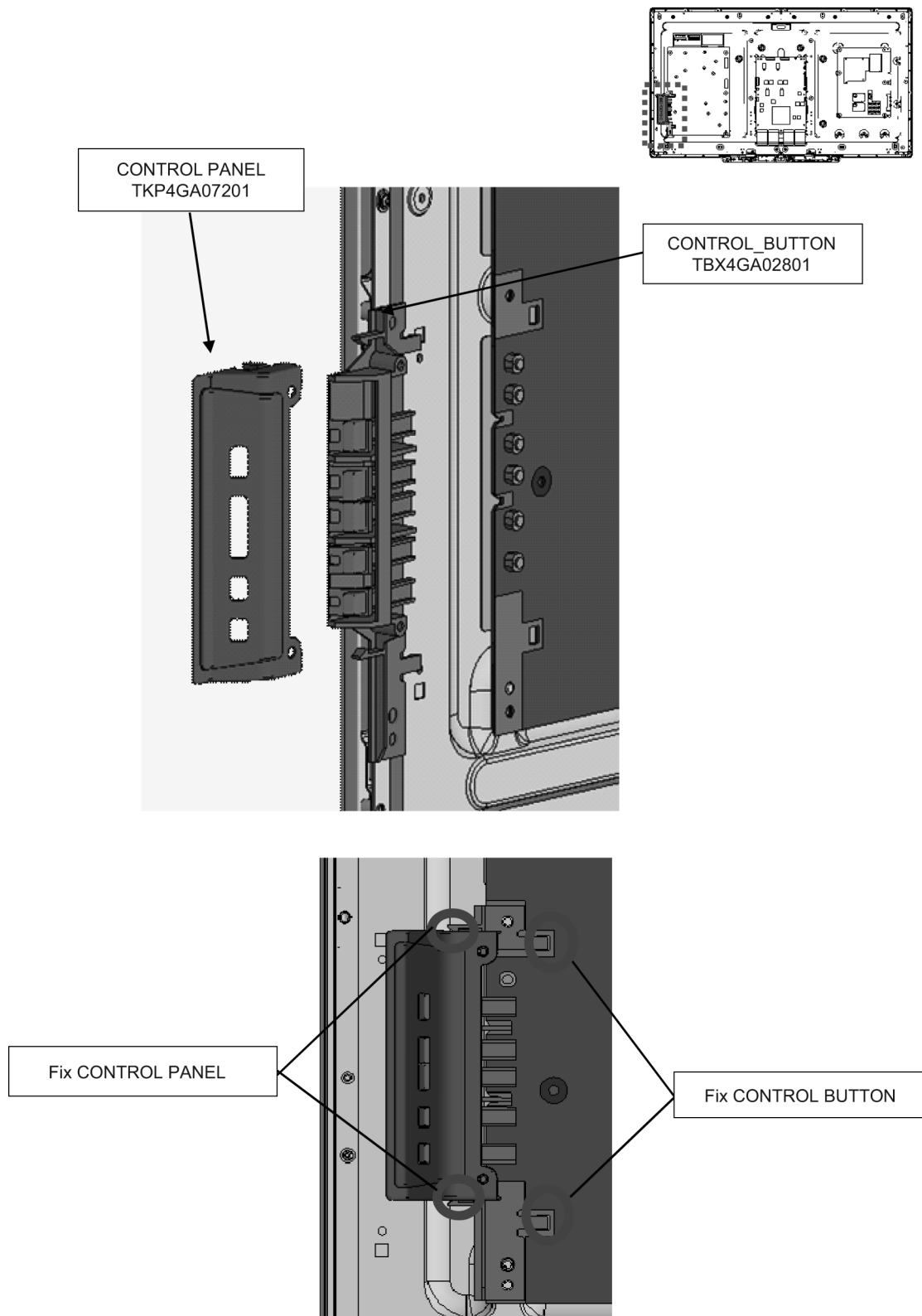
7.2. Installing AC Cord

1. Insert AC CORD connector to P-Print.
2. Insert AC CORD bush to COVER BOTTOM.



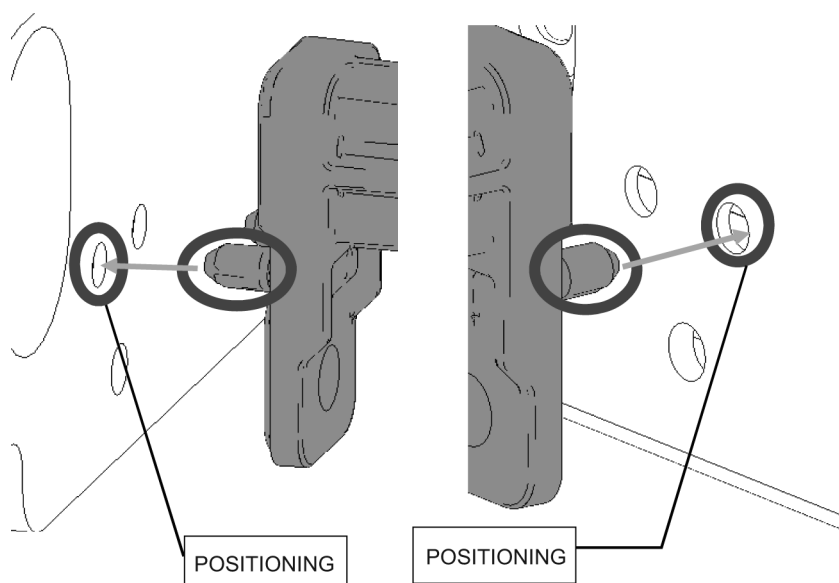
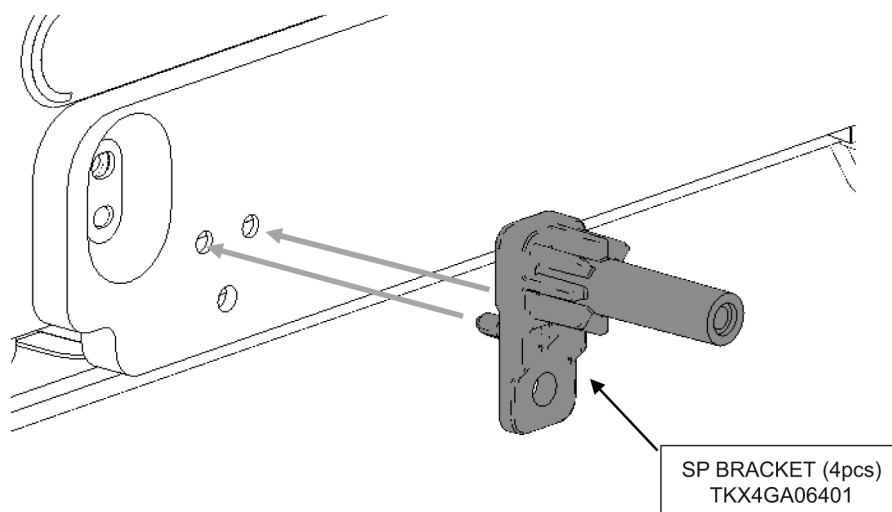
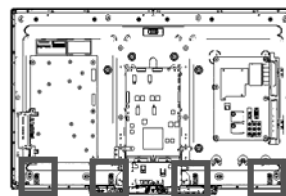
7.3. Control Panel Assembly

1. Insert CONTROL BUTTON in P-PRINT.
2. Insert CONTROL PANEL in CONTROL BUTTON.



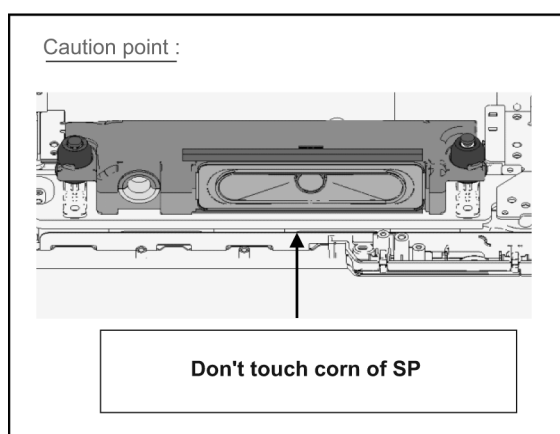
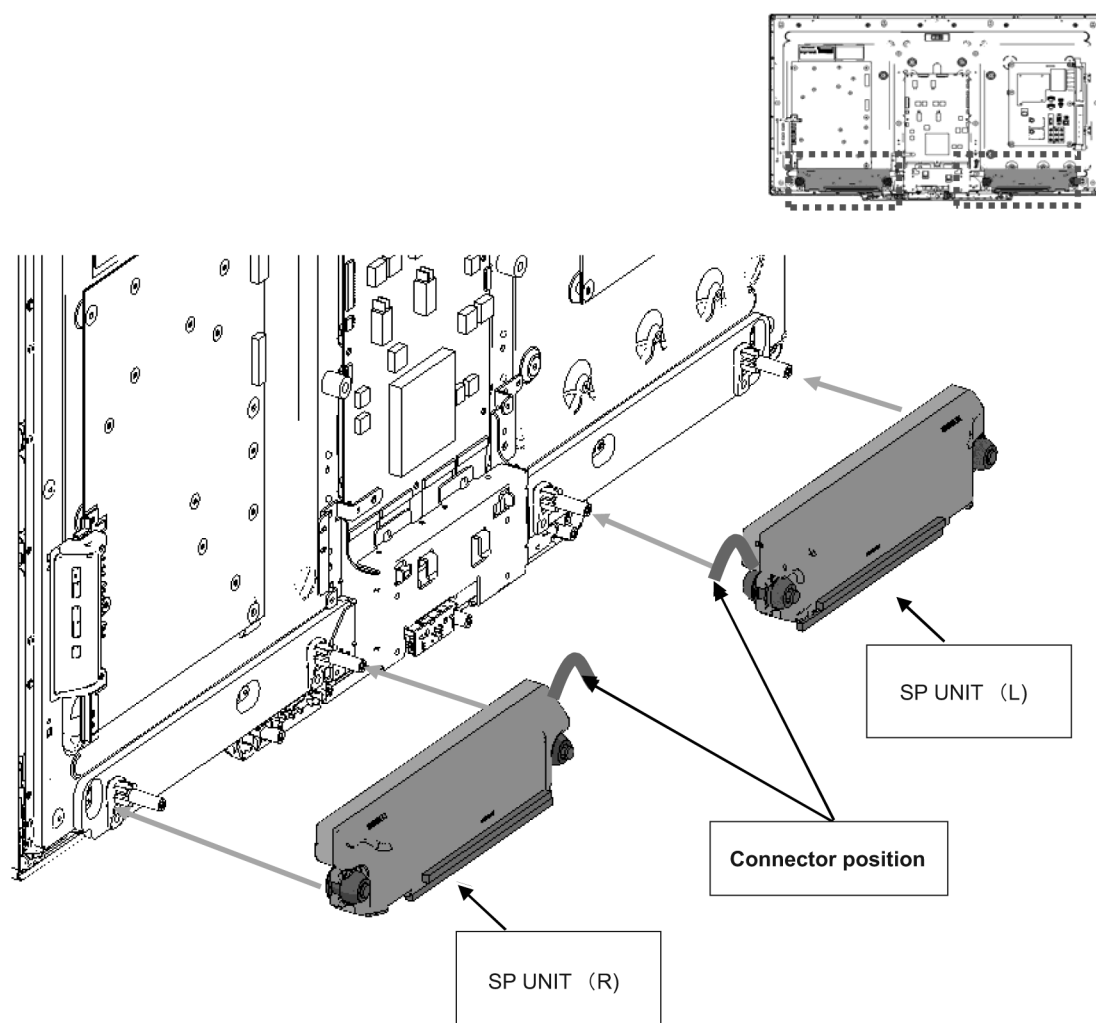
7.4. Installing SP Bracket

Put SP BRACKET (4pcs) on LCD PANEL.



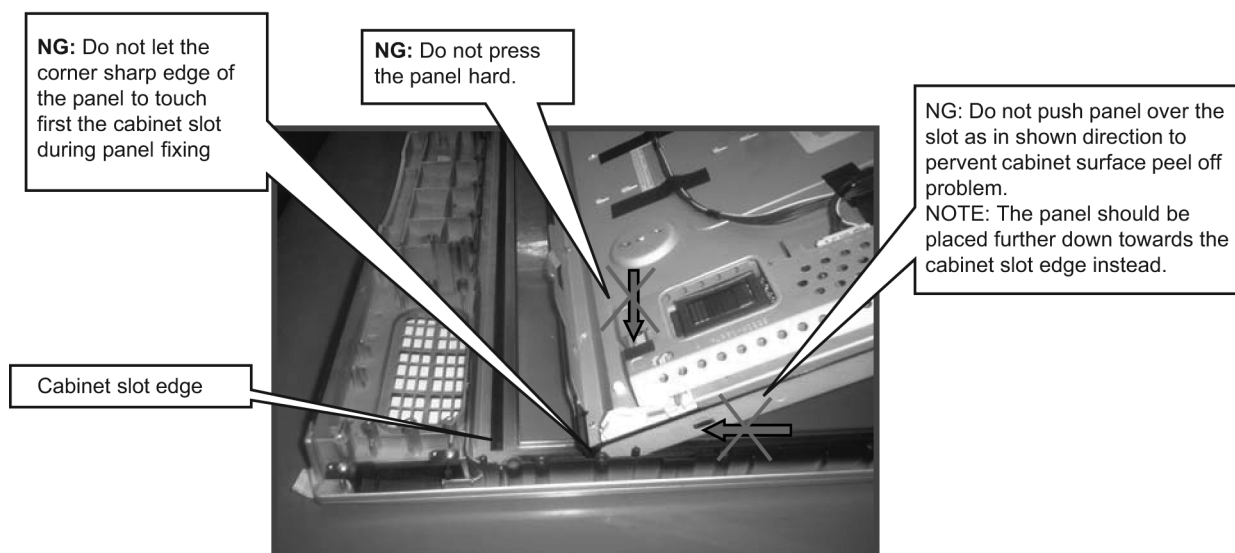
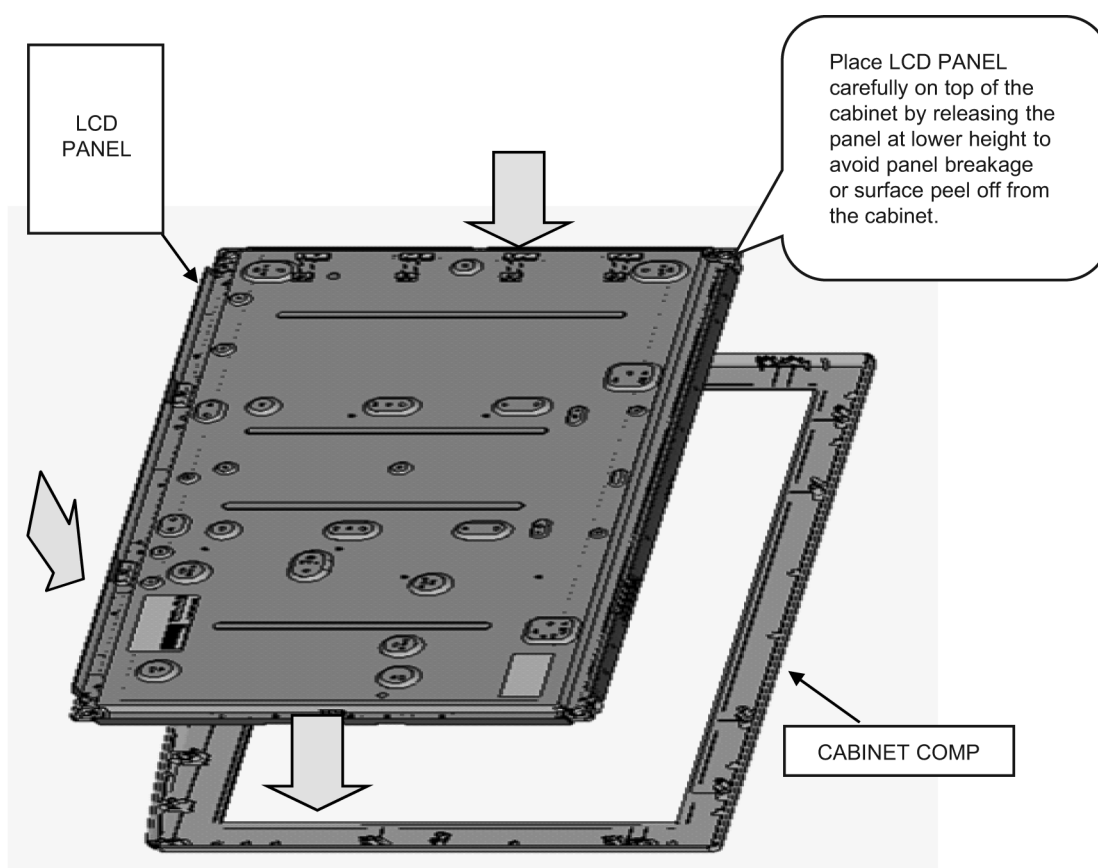
7.5. SP Unit Installation

Install SP UNIT L and SP UNIT R.



7.6. LCD Panel Fixing & Handling Method

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

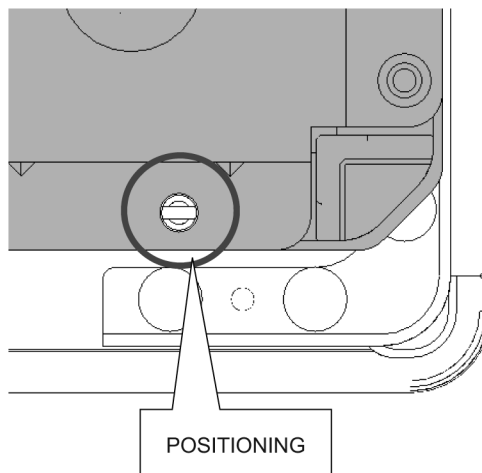
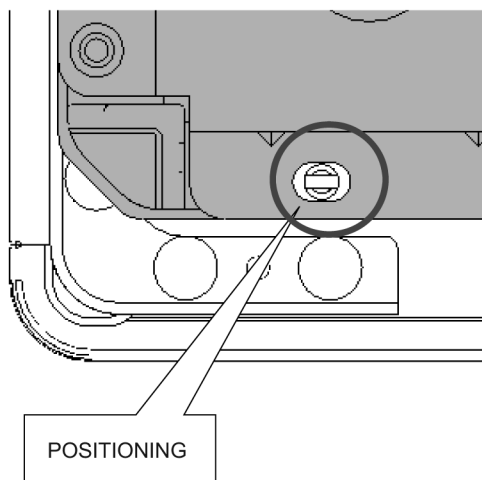
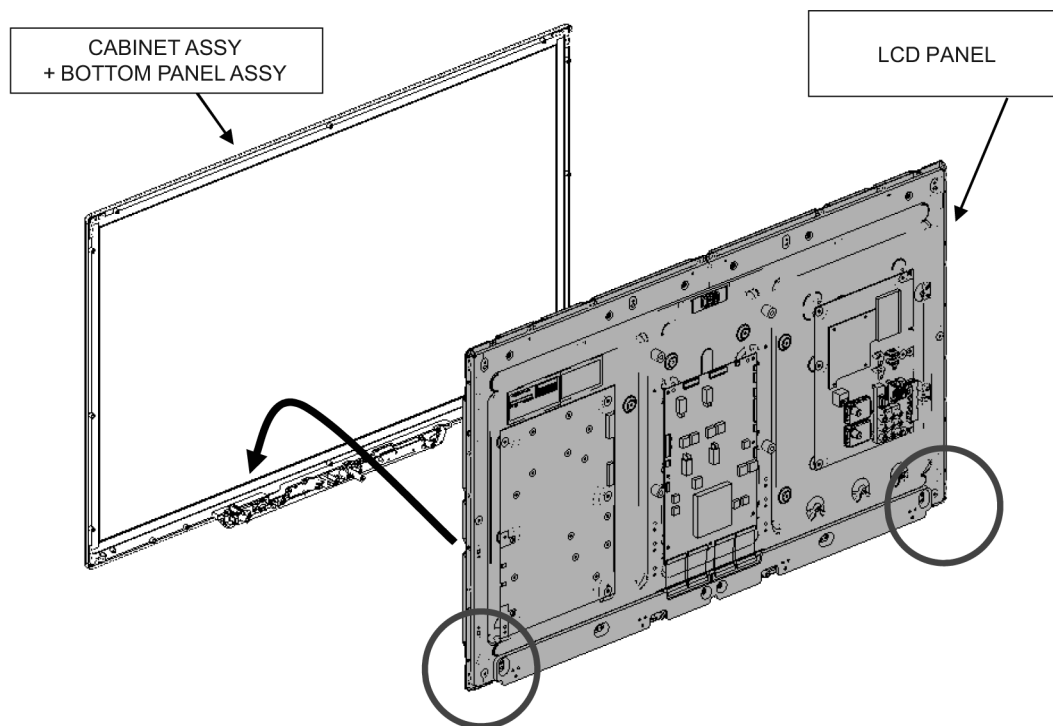


Other general precautions

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.

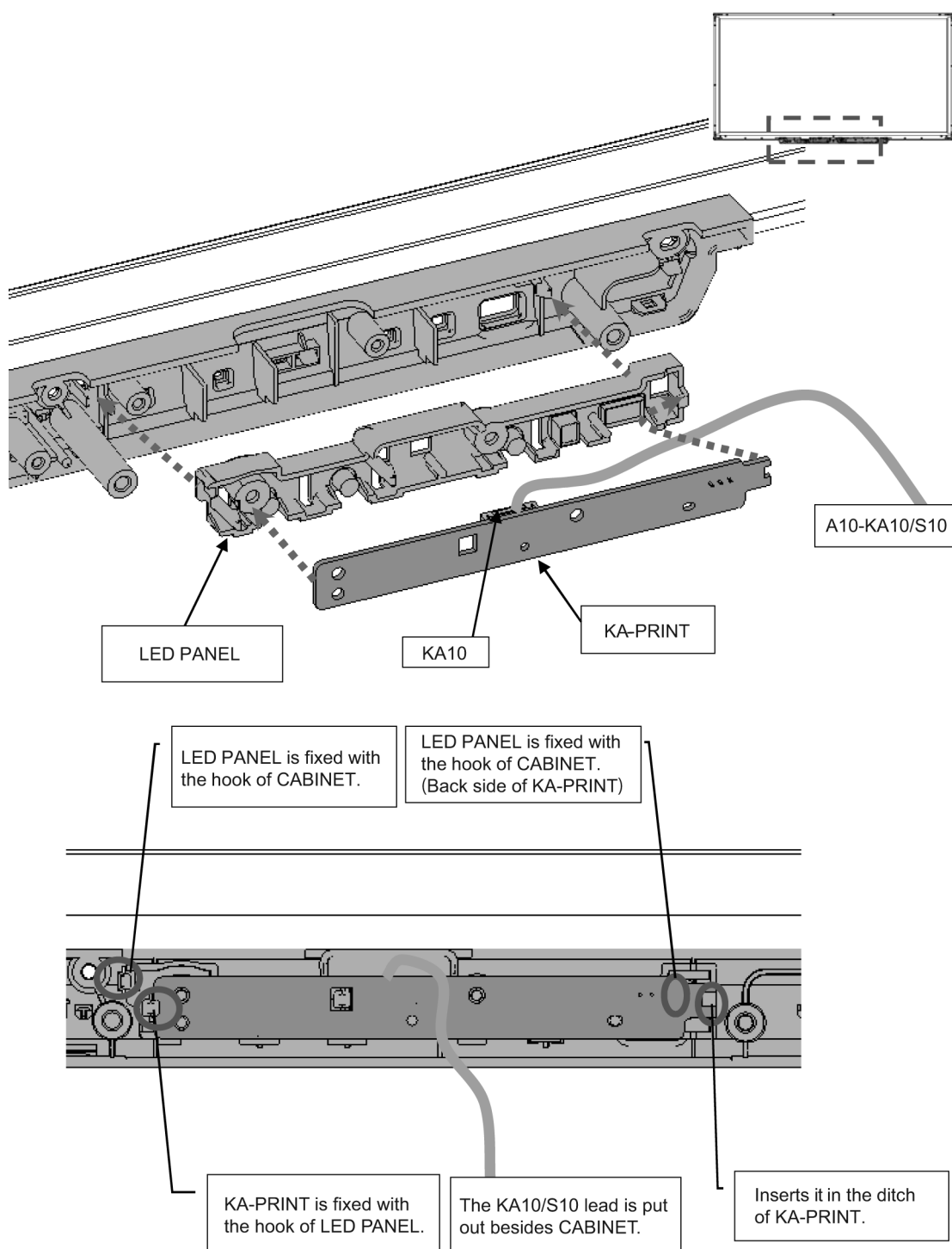
7.7. LCD Panel Installation

Put LCD PANEL on the CABINET ASSY.



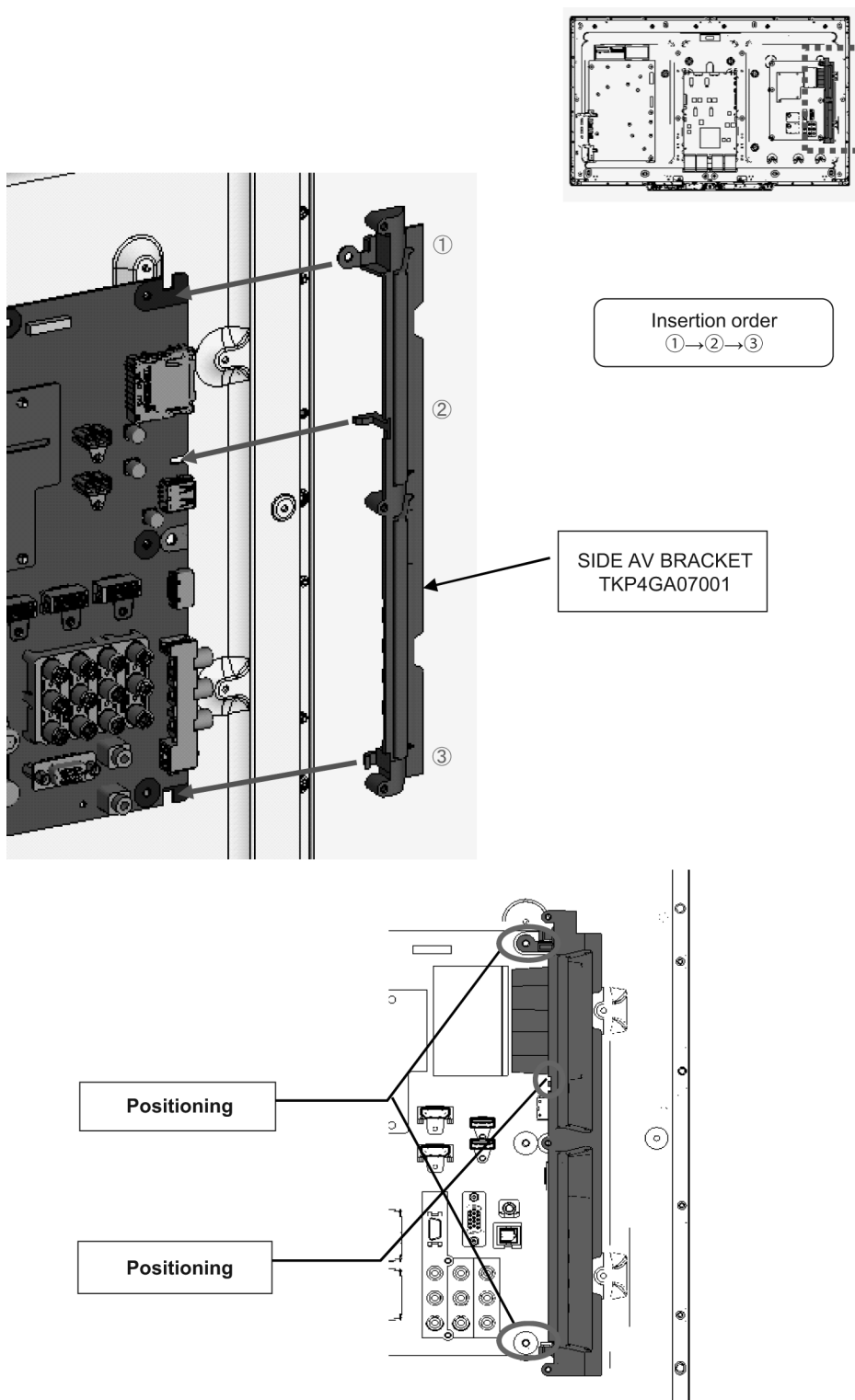
7.8. LED Panel and KA - Print Assembly

1. Insert A10-K10 in KA PRINT.
2. Fix KA PRINT on LED PANEL.
3. Fix LED PANEL to ORNAMENT.



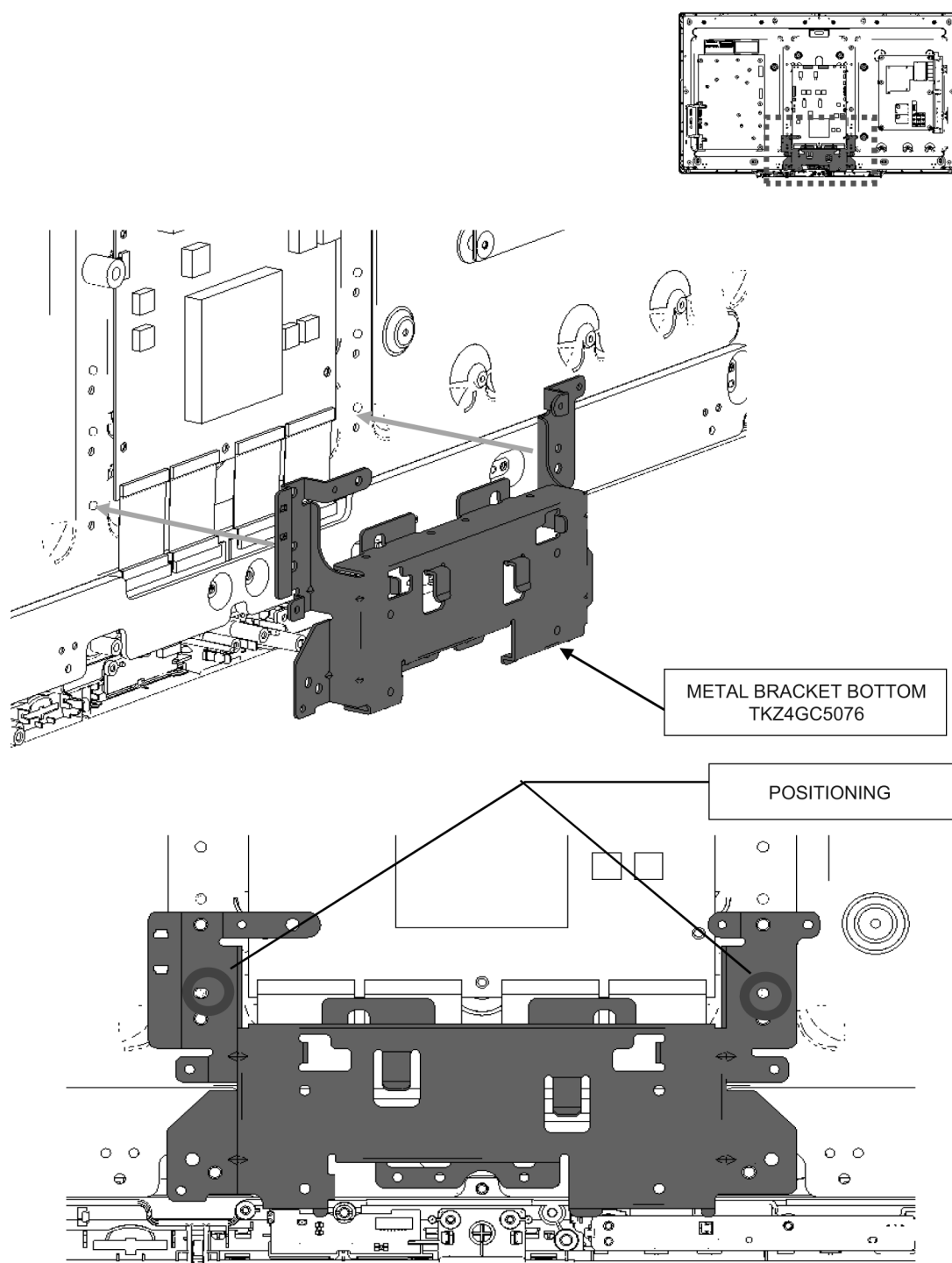
7.9. Installing Side Bracket

Insert SIDE AV BRACKET to A-PRINT.



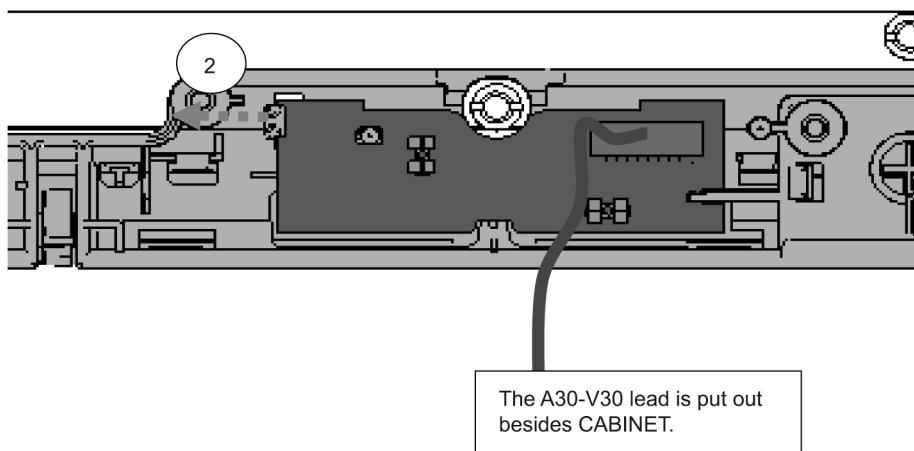
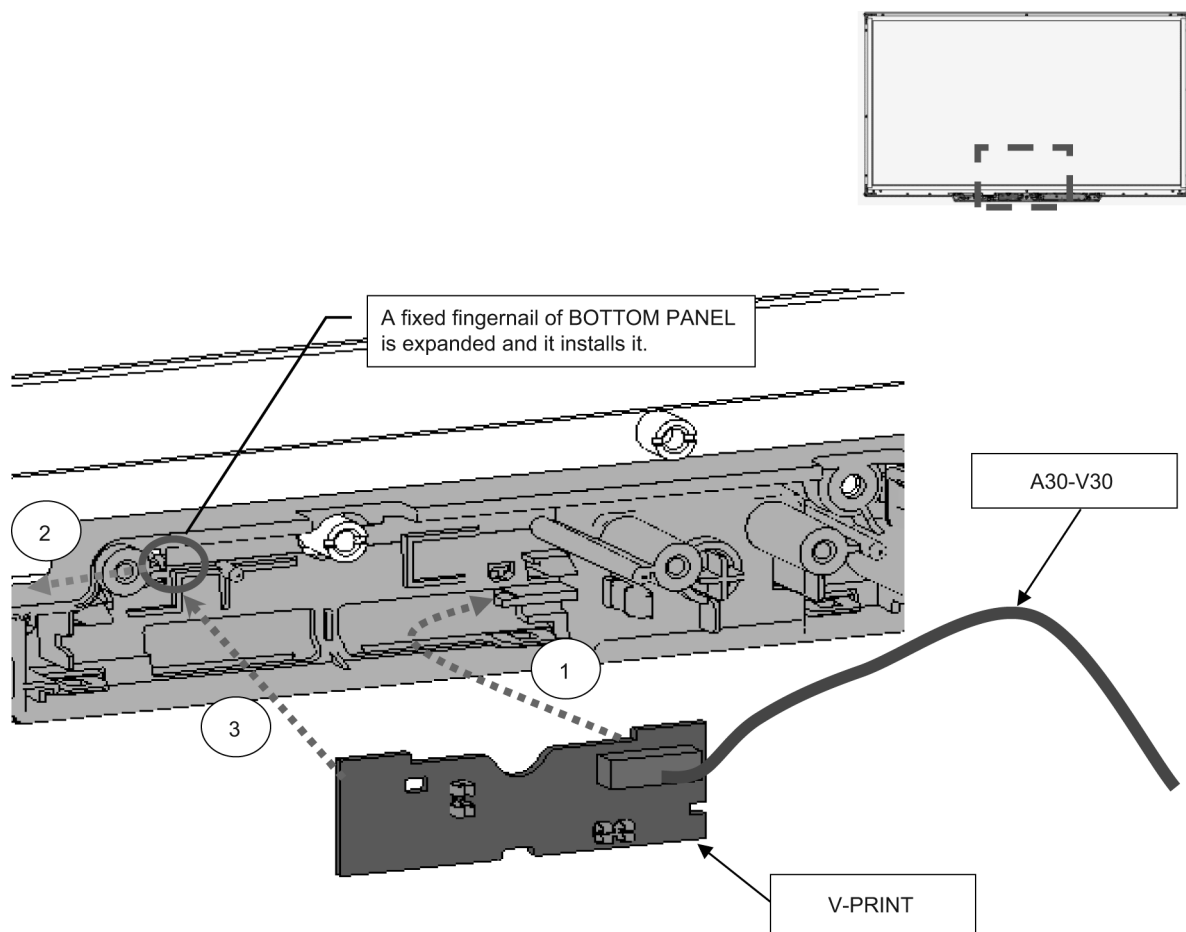
7.10. Metal Bracket Bottom Installation

Put METAL BRACKET BOTTOM on LCD PANEL.



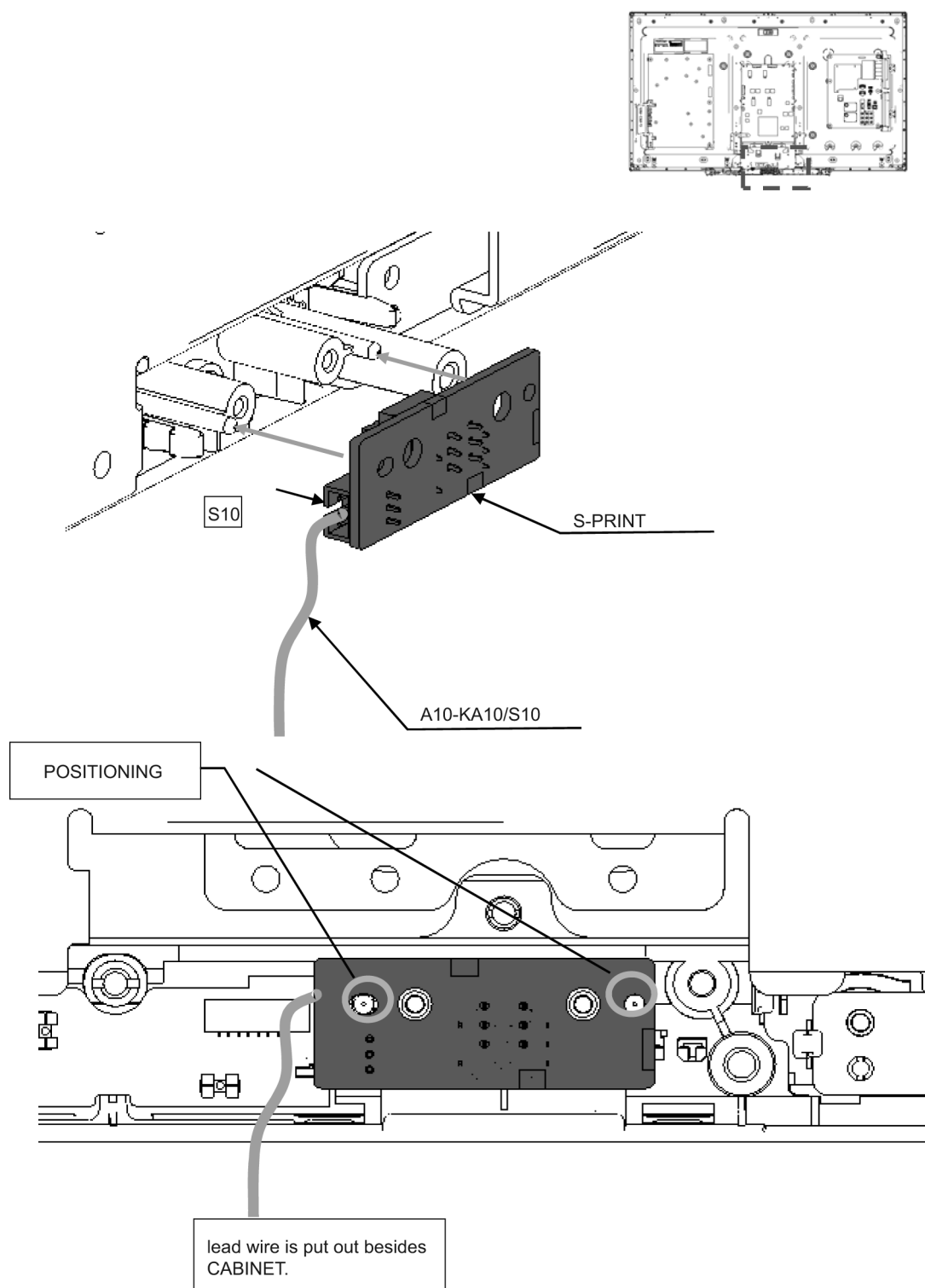
7.11. V-Print Assembly

1. Insert A30-V30 in V-PRINT.
2. Fix V-Print to BOTTOM PANEL. ①→②→③



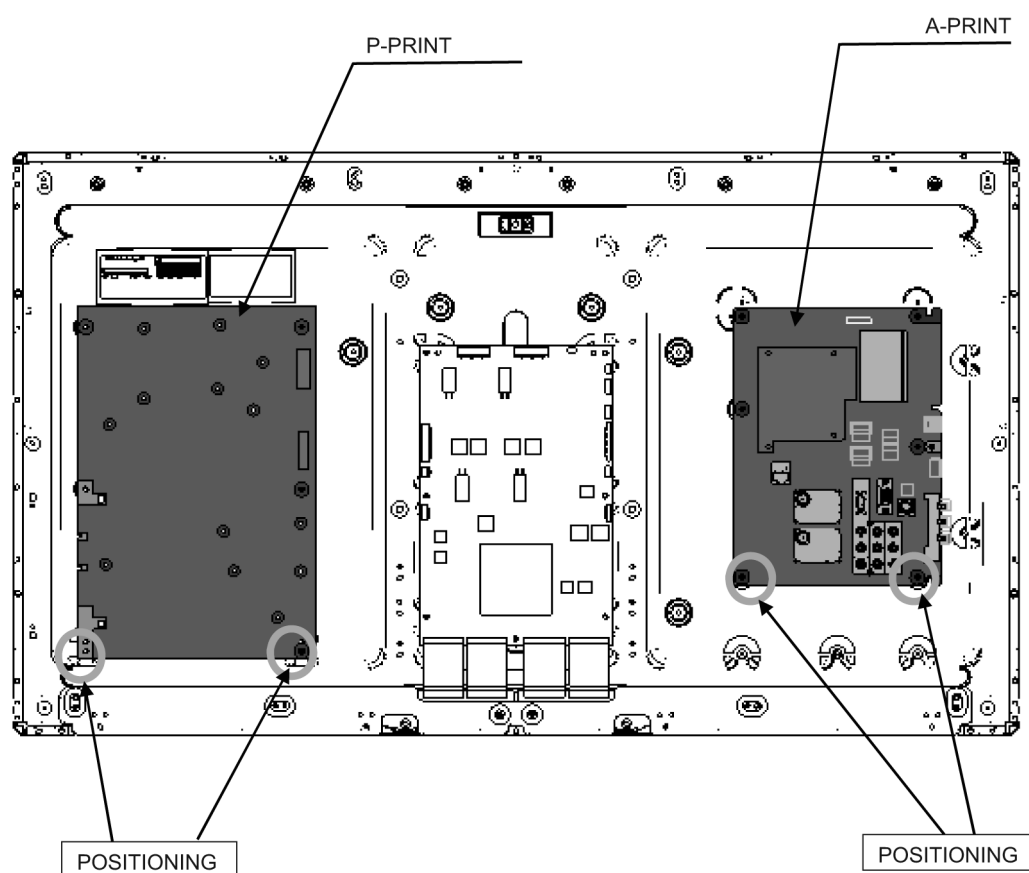
7.12. Installing S-Print

1. Lead wire installation. (A10-KA10/S10)
2. Insert A10-S10 in S-PRINT.
3. Put S-PRINT on BOTTOM PANEL.



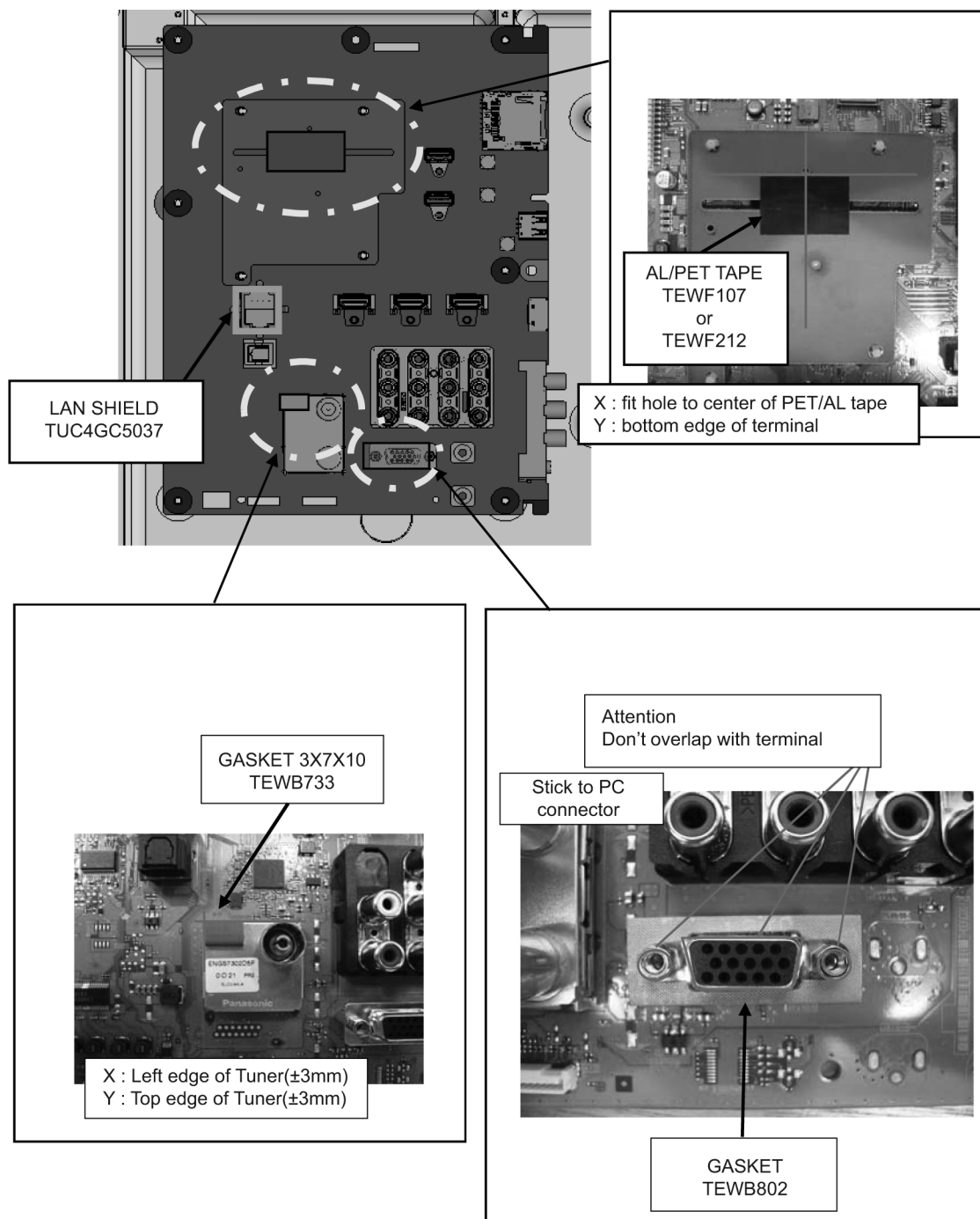
7.13. PCB Print Installation 1

Put P-PRINT and A-PRINT on LCD PANEL.



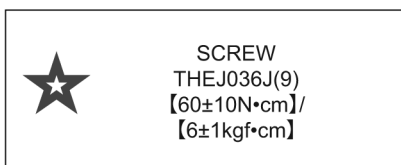
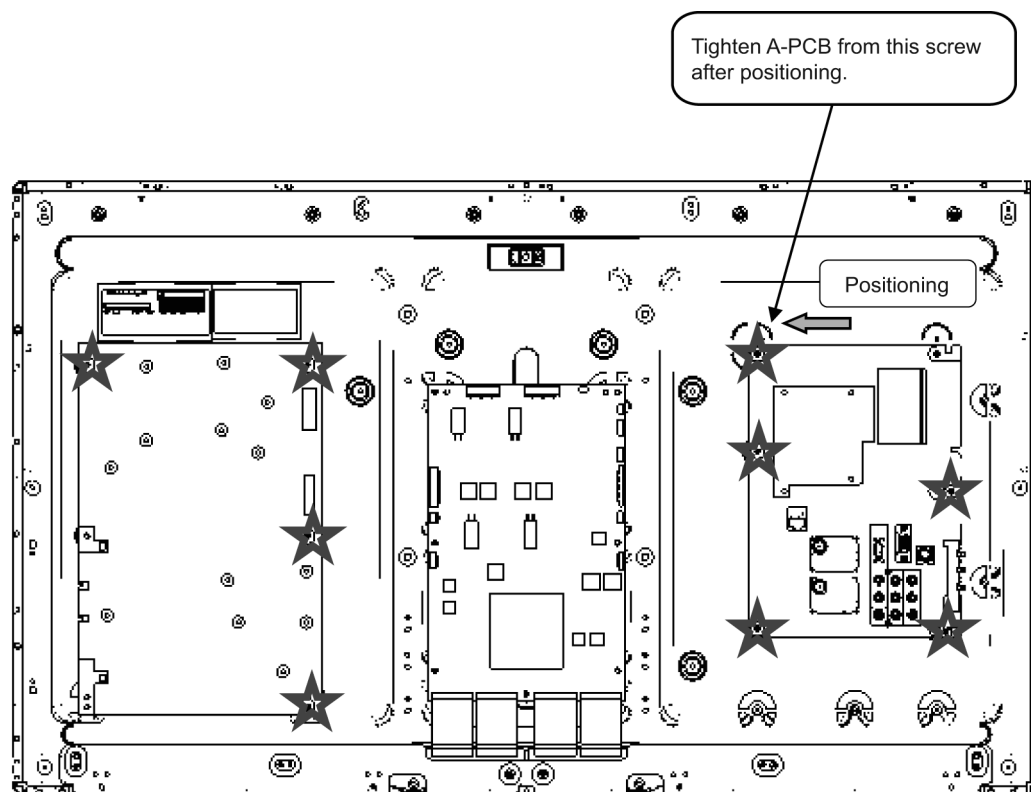
7.14. PCB Print Installation 2

1. Stick the AL/PET TAPE and LAN SHIELD type.
2. Stick the GASKET(TEWB802).



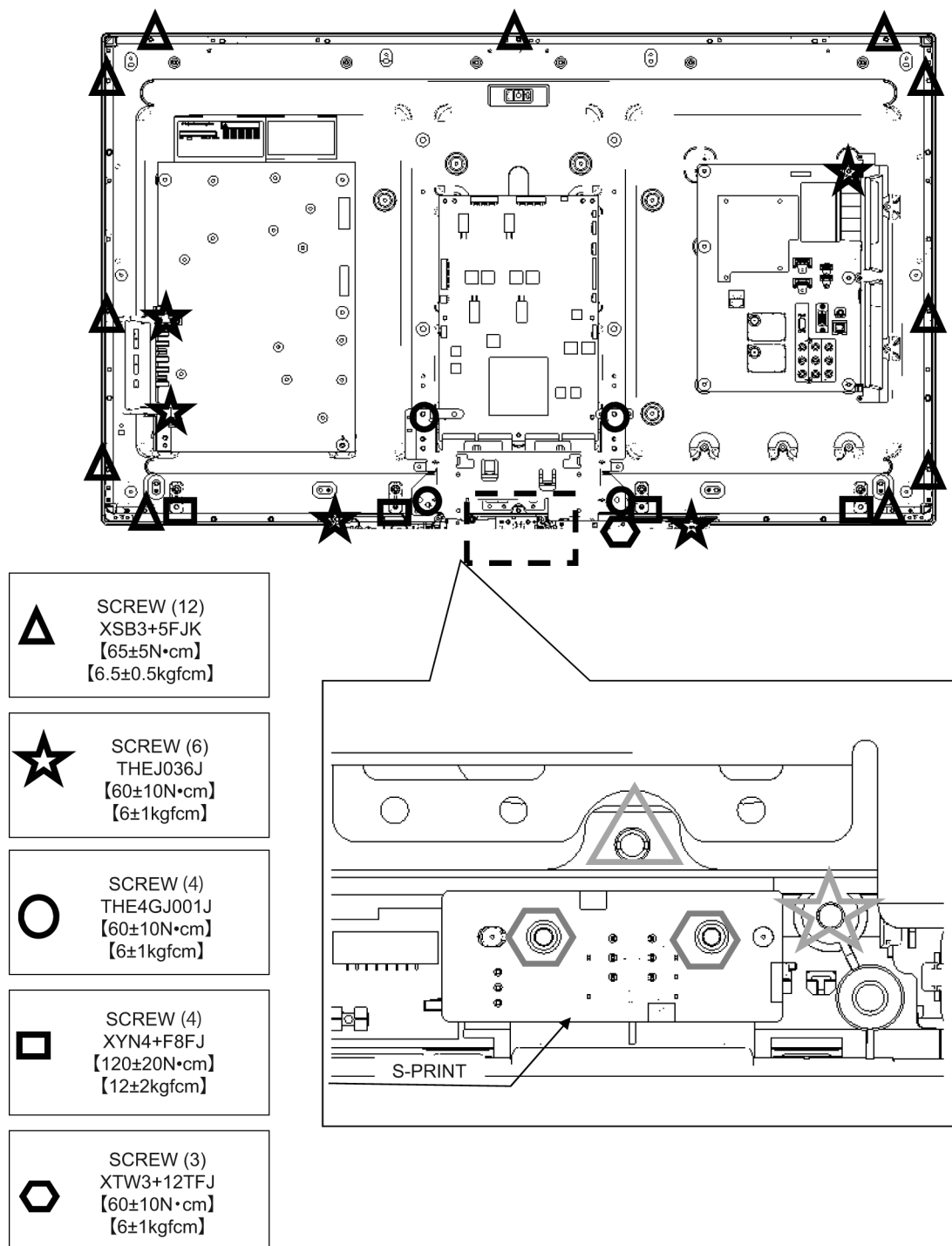
7.15. Tightening Screws 1

1. Fix P-PRINT with SCREW.
2. Fix A-PRINT with SCREW.



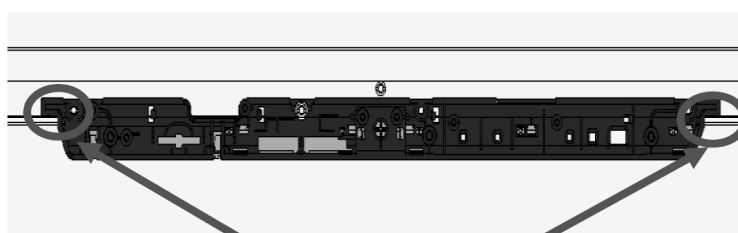
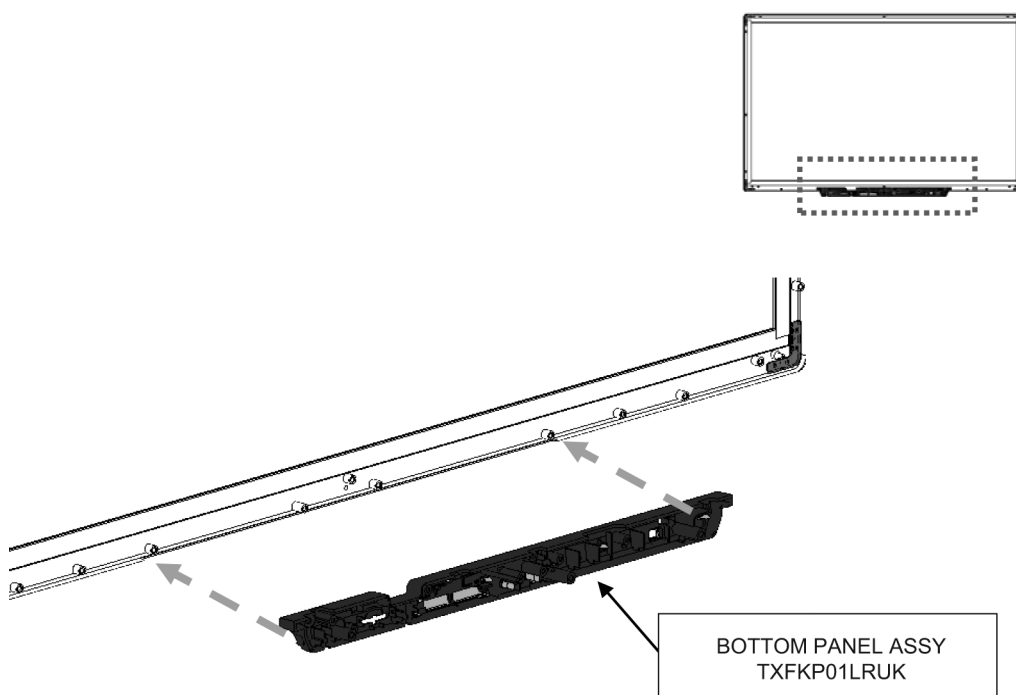
7.16. Tightening Screws 2

1. Fix CONTROL BUTTON with SCREW.
2. Fix S-PRINT and KA-PRINT with SCREW.
3. Fix SIDE AV BRACKET with SCREW.
4. Fix LCD PANEL with SCREW.
5. Fix METAL BRACKET BOTTOM with SCREW.
6. Fix SP BRACKET with SCREW.

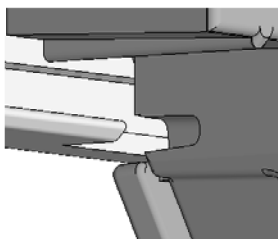


7.17. Bottom Panel Assembly 1

Put BOTTOM PANEL ASSY on the CABINET ASSY.

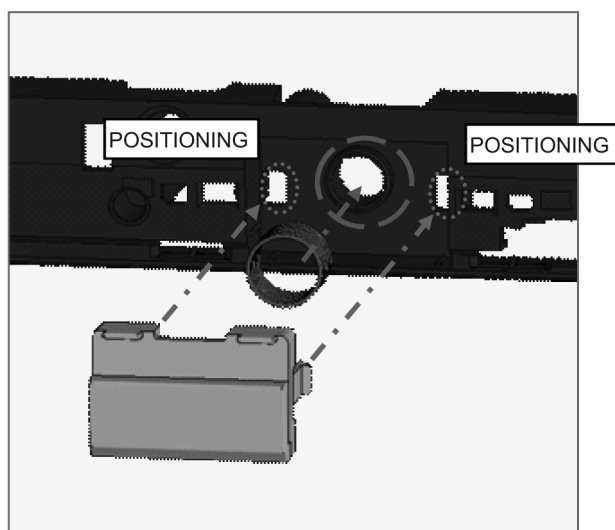
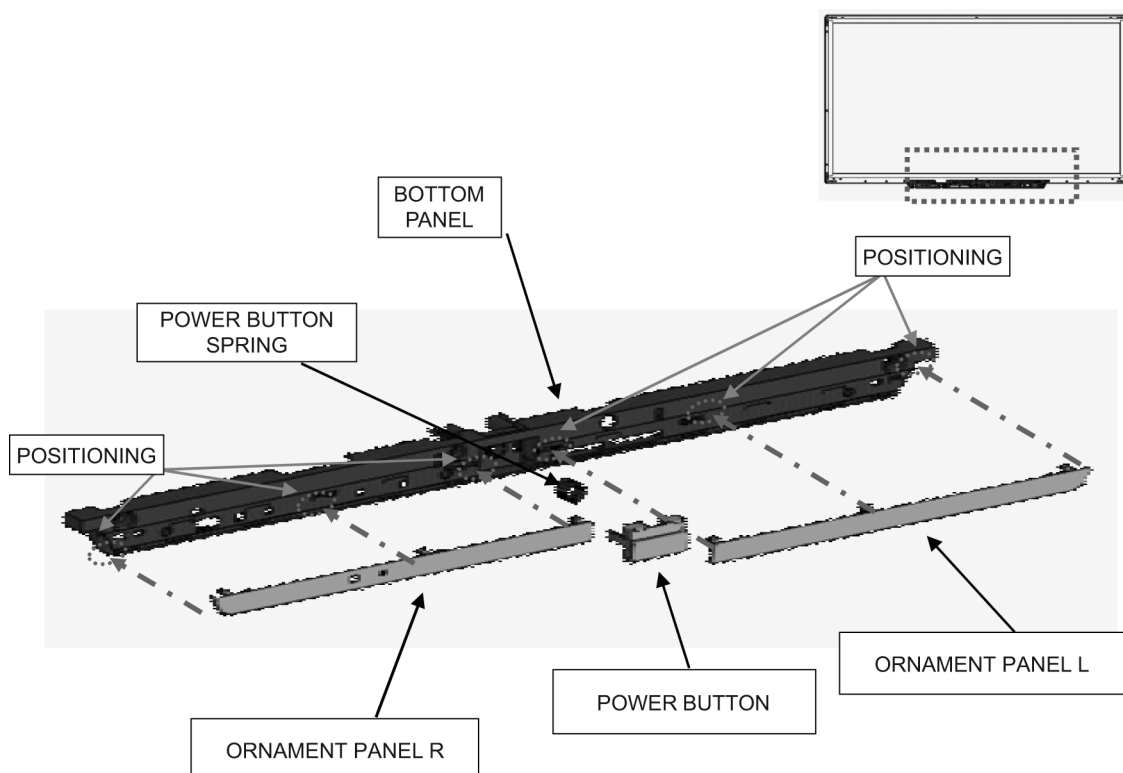


Put a CABINET rib into a ditch of
BOTTOM PANEL.



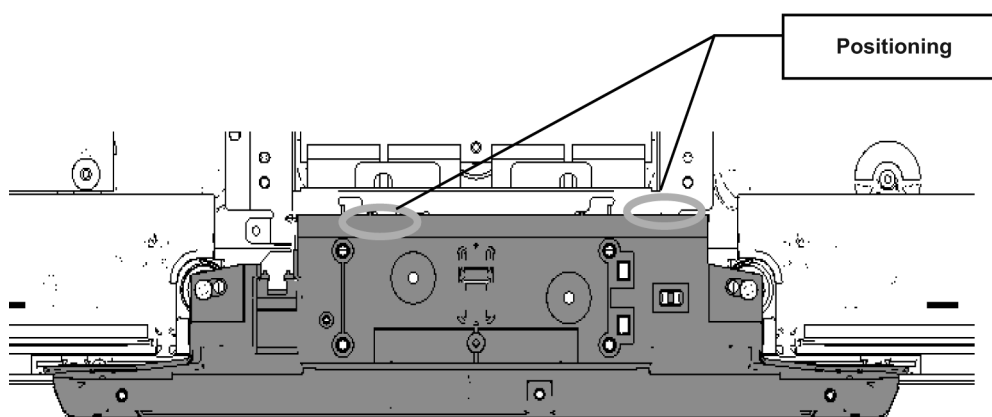
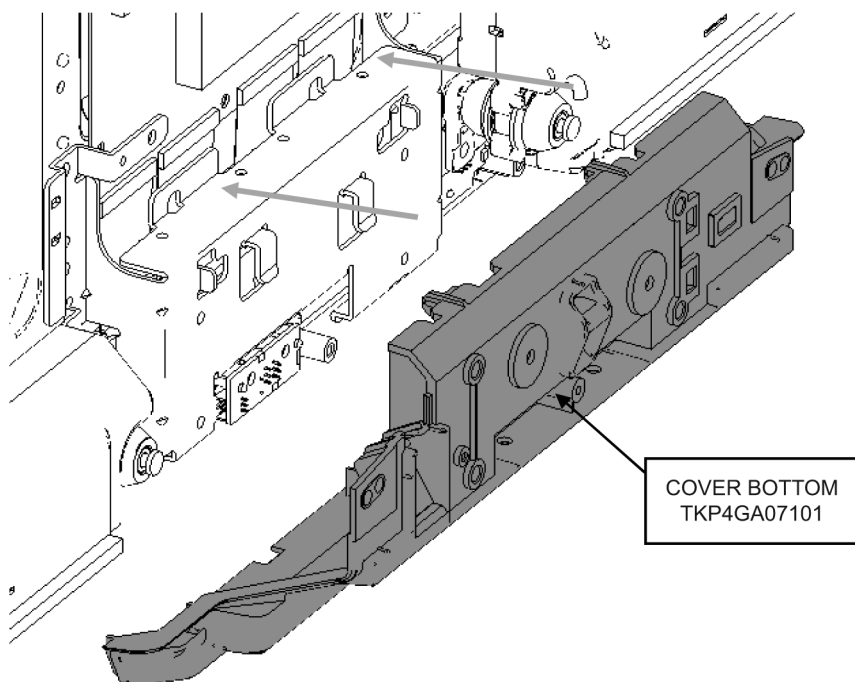
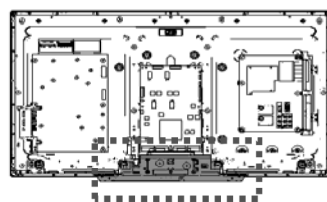
7.18. Bottom Panel Assembly 2

1. Put POWER BUTTON SPRING on the BOTTOM PANEL.
2. Fix POWER BUTTON to BOTTOM PANEL.
3. Fix ORNAMENT PANEL R and ORNAMENT PANEL L to BOTTOM PANEL.



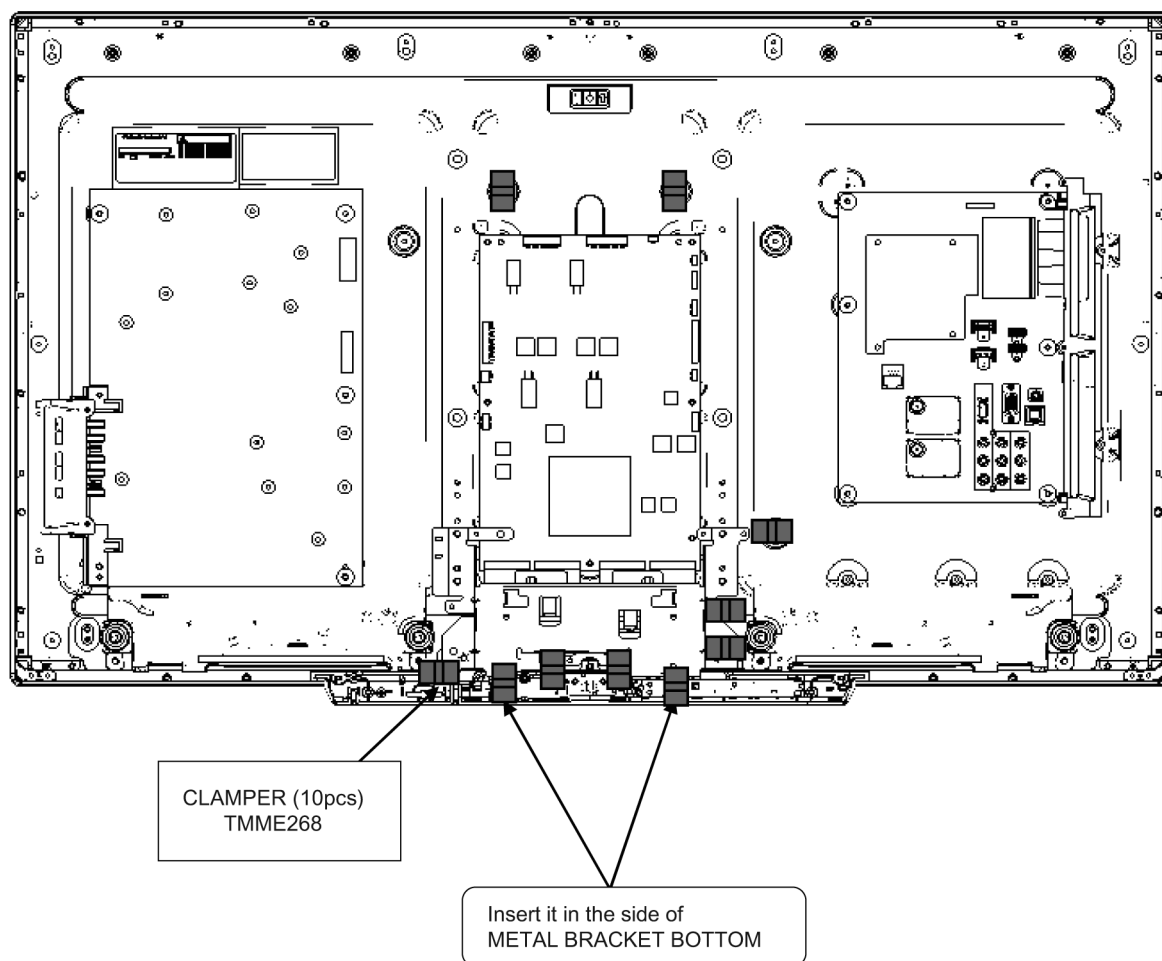
7.19. Installing Cover Bottom

Install COVER BOTTOM.



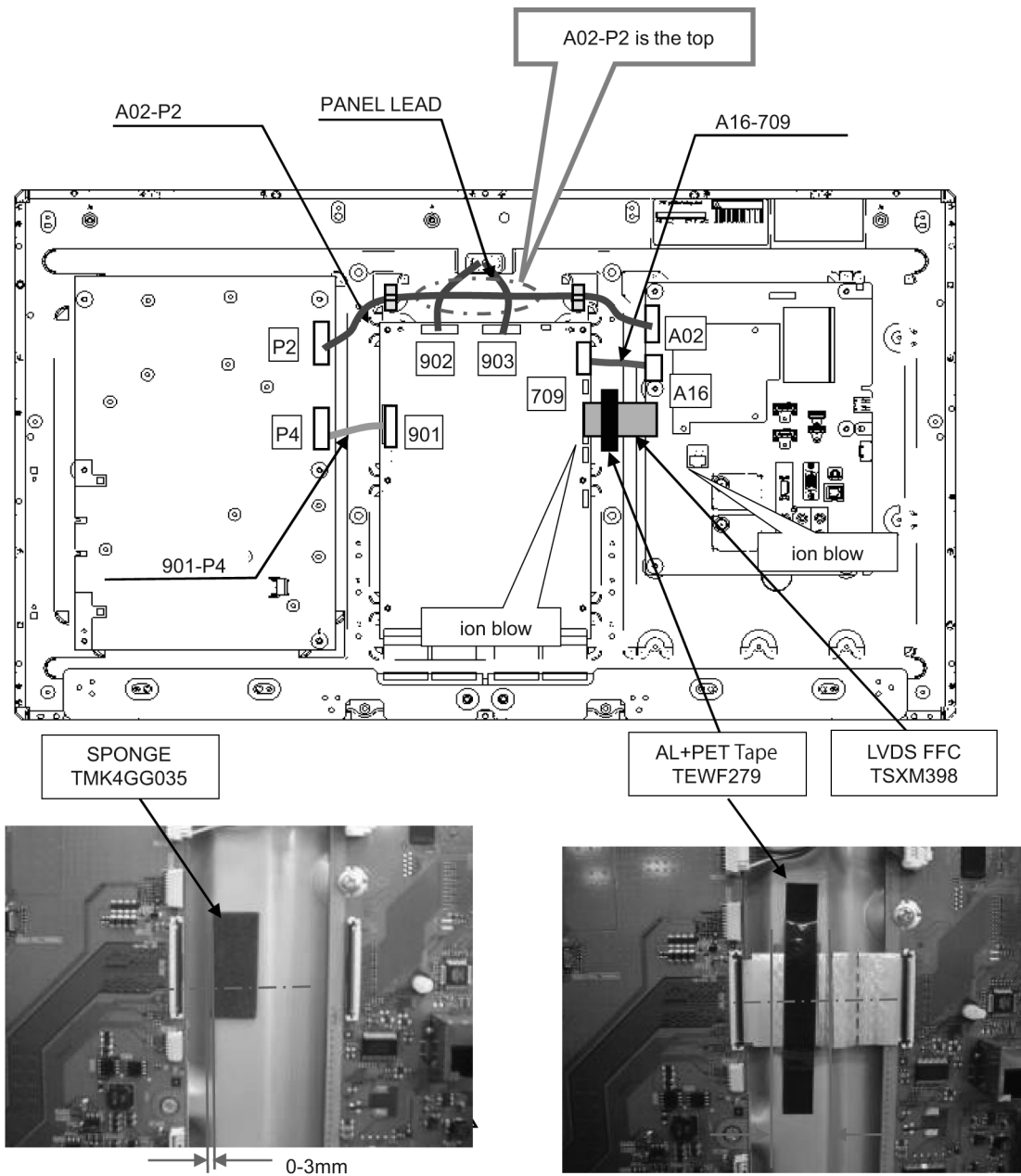
7.20. Installing Clampers

Install Clamper.



7.21. Wiring & Sticking AL+Pet Tape

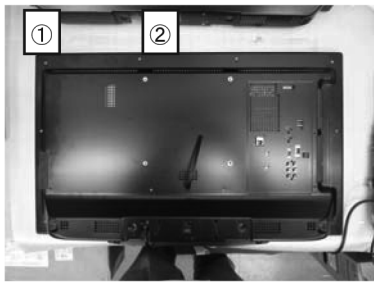
1. Wiring.
2. Stick the SPONGE & AL+PET Tape.



7.22. Installing Back Cover

Back cover installation procedure notes

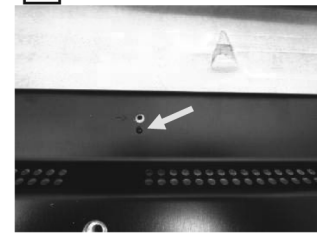
① Put back cover



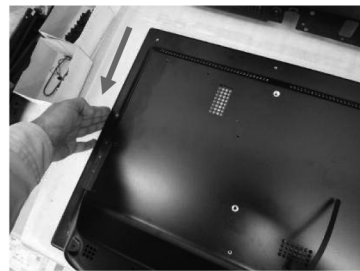
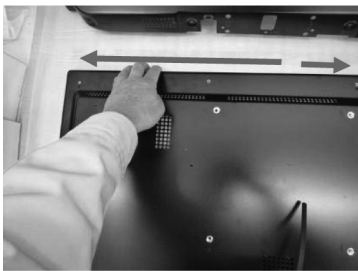
① Adjust point



② Adjust point



② Check condition of back cover



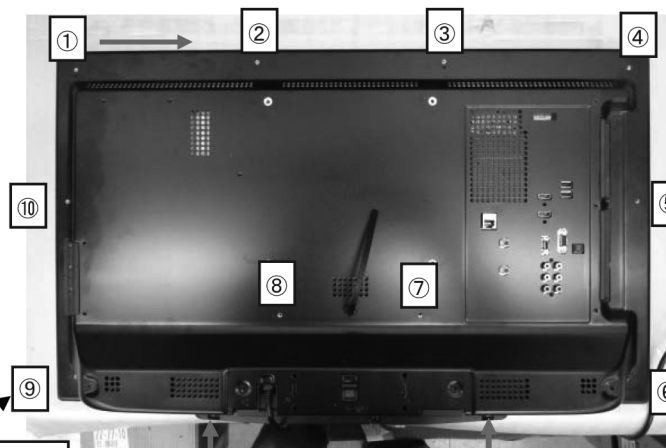
Bottom side is overlap, so put back cover



Condition of overlap

Overlap condition

③ Tighten screws

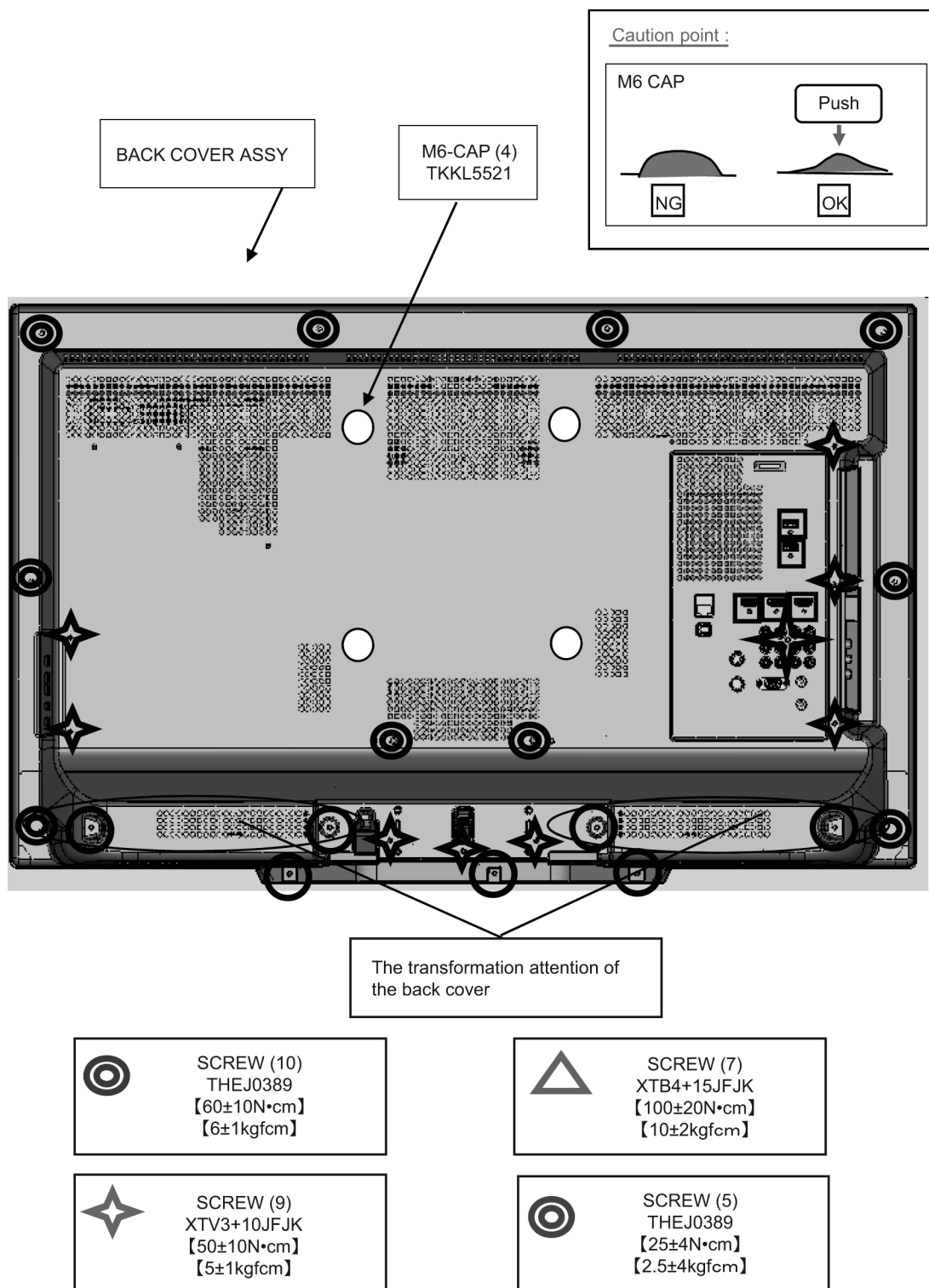


Check condition first
before tighten this screw.

Check condition first
before tighten this screw.

7.23. Back Cover Installation

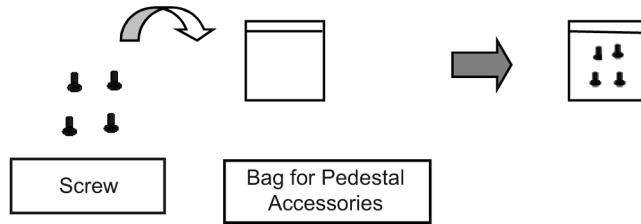
1. Fix BACK COVER and COVER BOTTOM with SCREW.
2. Fix BACK COVER with M6-CAP.



7.24. Accessories Assembly

Insert each part into bag.

1. PEDESTAL ACCESSORIES ASSY- STAPLE TOGETHER WITH FAN BAG ASSY



8 Measurements and Adjustments

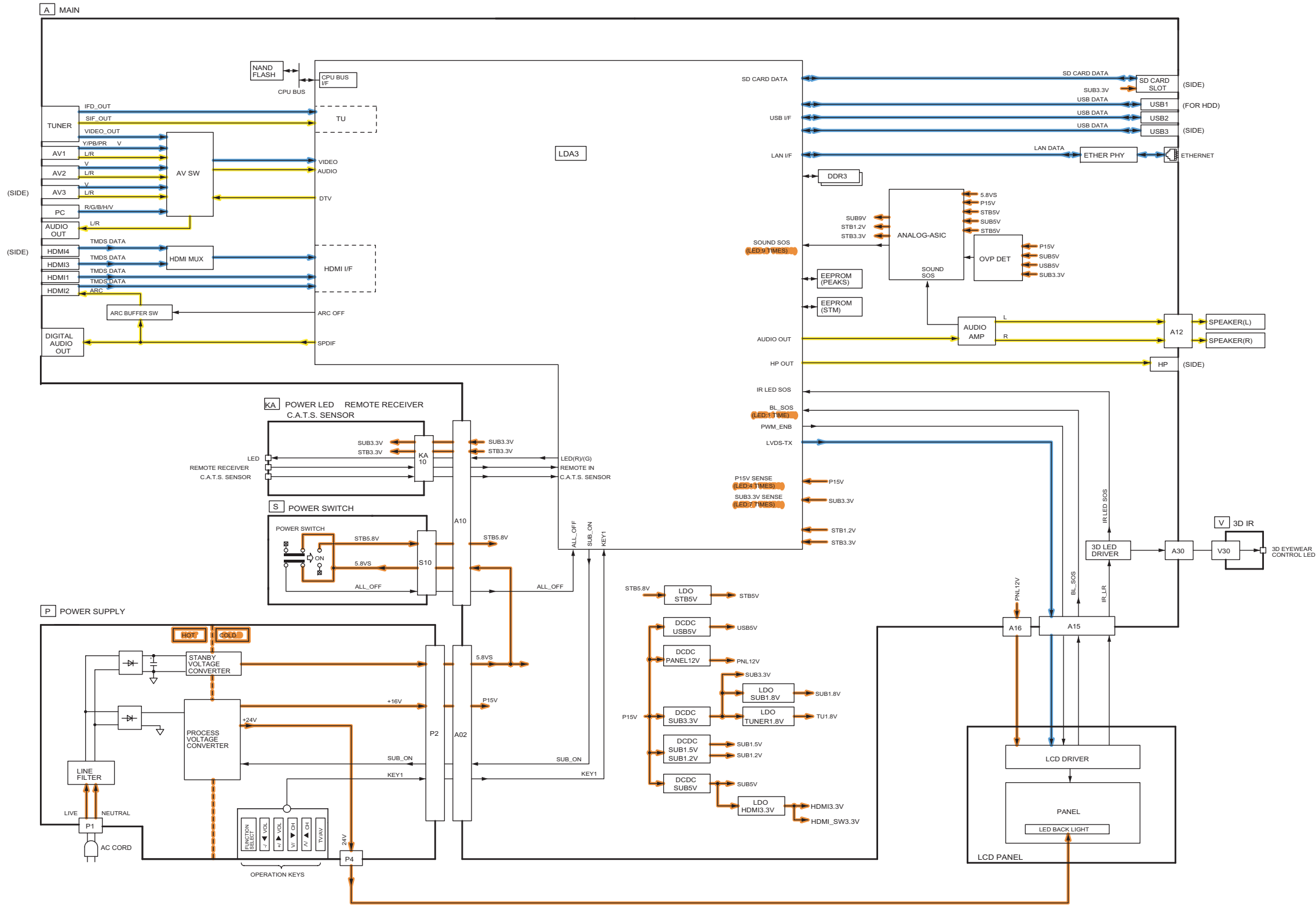
8.1. Voltage chart of A-board

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

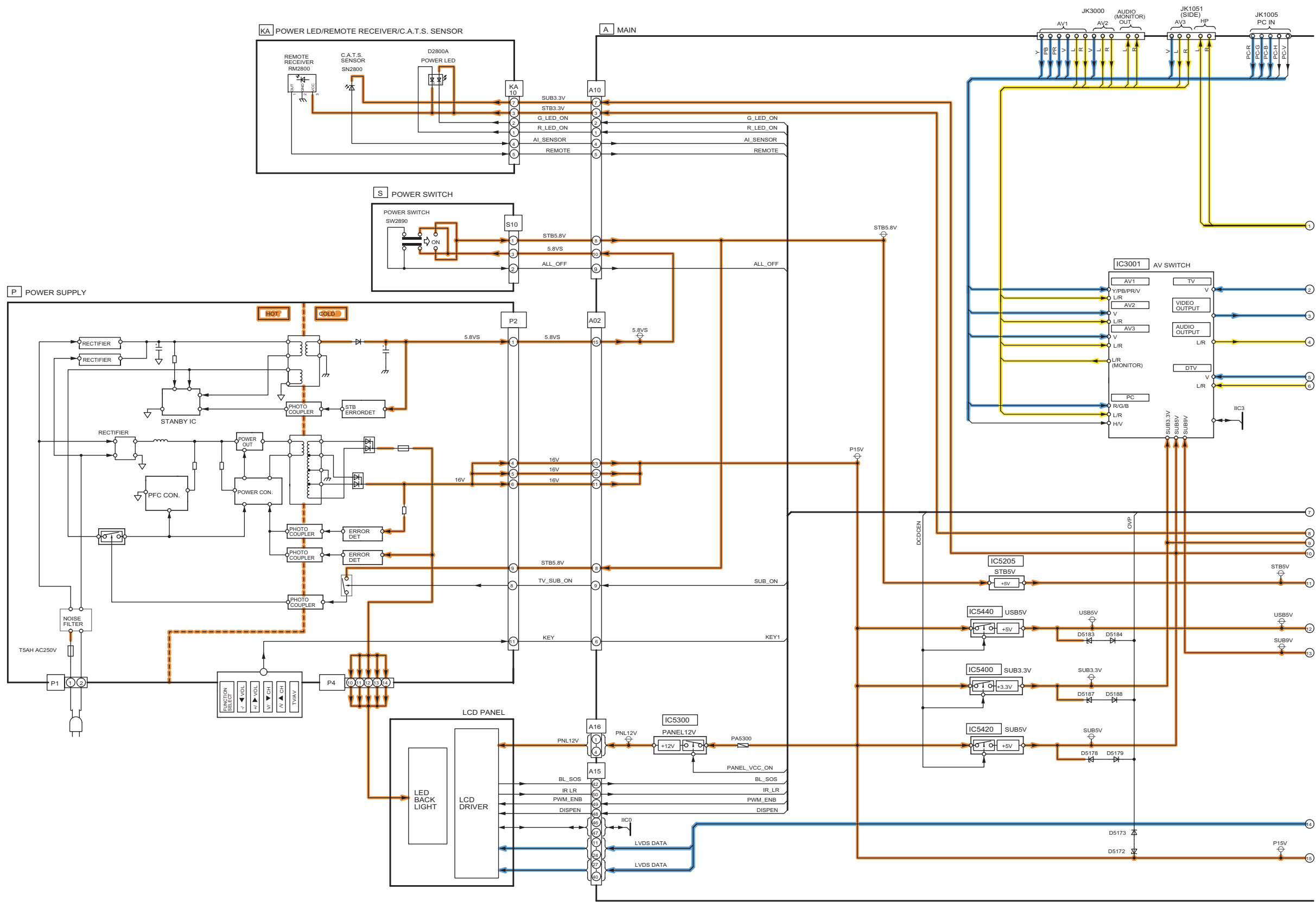
Power Supply Name	Measurement Point	Specification (V)
SUB1.2V	TP8100	1.24 - 1.31 V
SUB1.5V	TP8101	1.47 - 1.55 V
SUB3.3V	TP5400	3.17 - 3.43 V
SUB5V	TP5420	4.94 - 5.31 V
USB5V	TP5440	4.94 - 5.31 V
PNL12V	TP4089 or TP4091 or TP4092 or TP4095	11.5 - 12.5 V
LED_DRV5V	TP5900	4.89 - 5.33V

9 Block Diagram

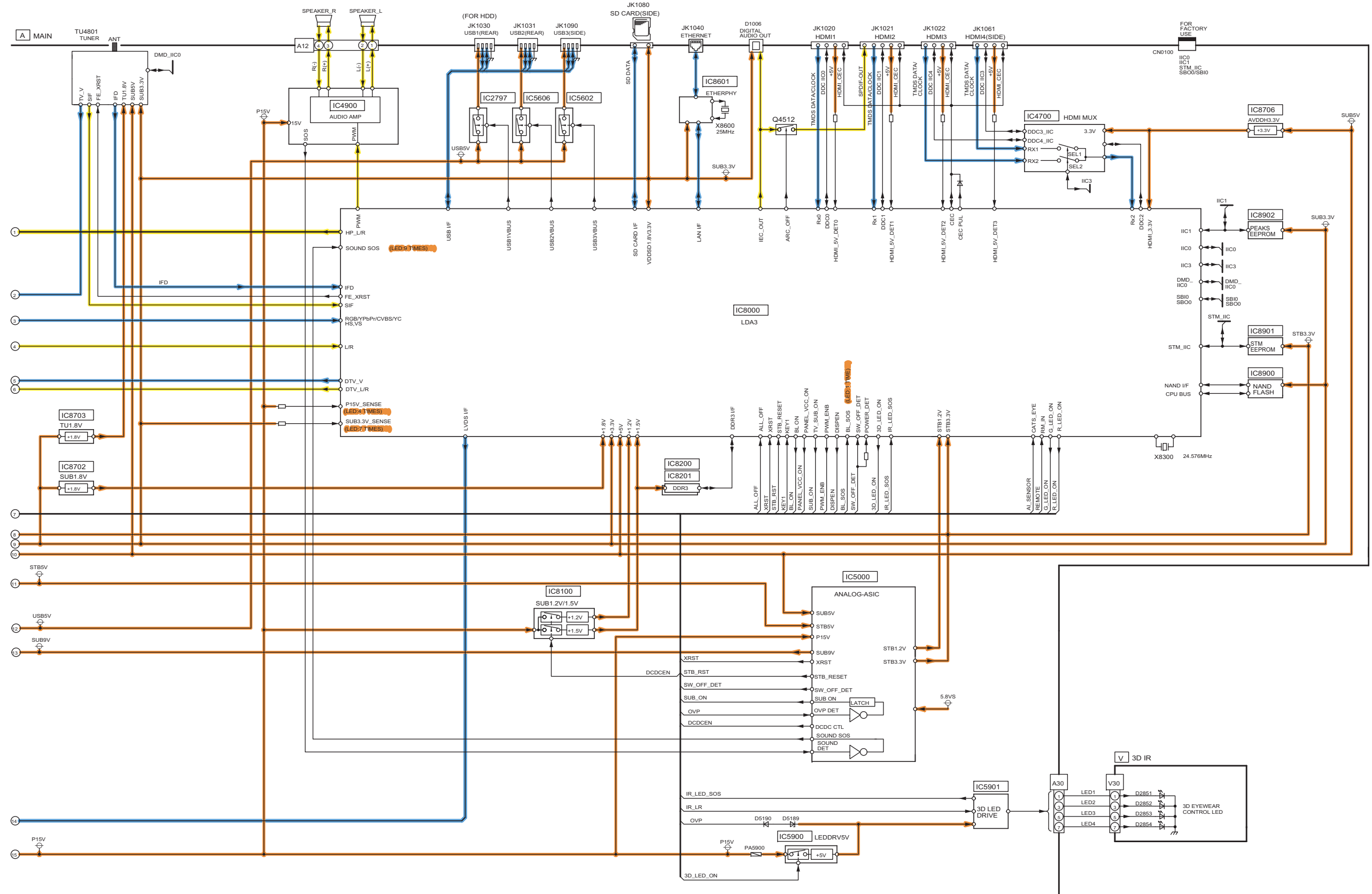
9.1. Main Block Diagram



9.2. Detailed Block Diagram 1/2



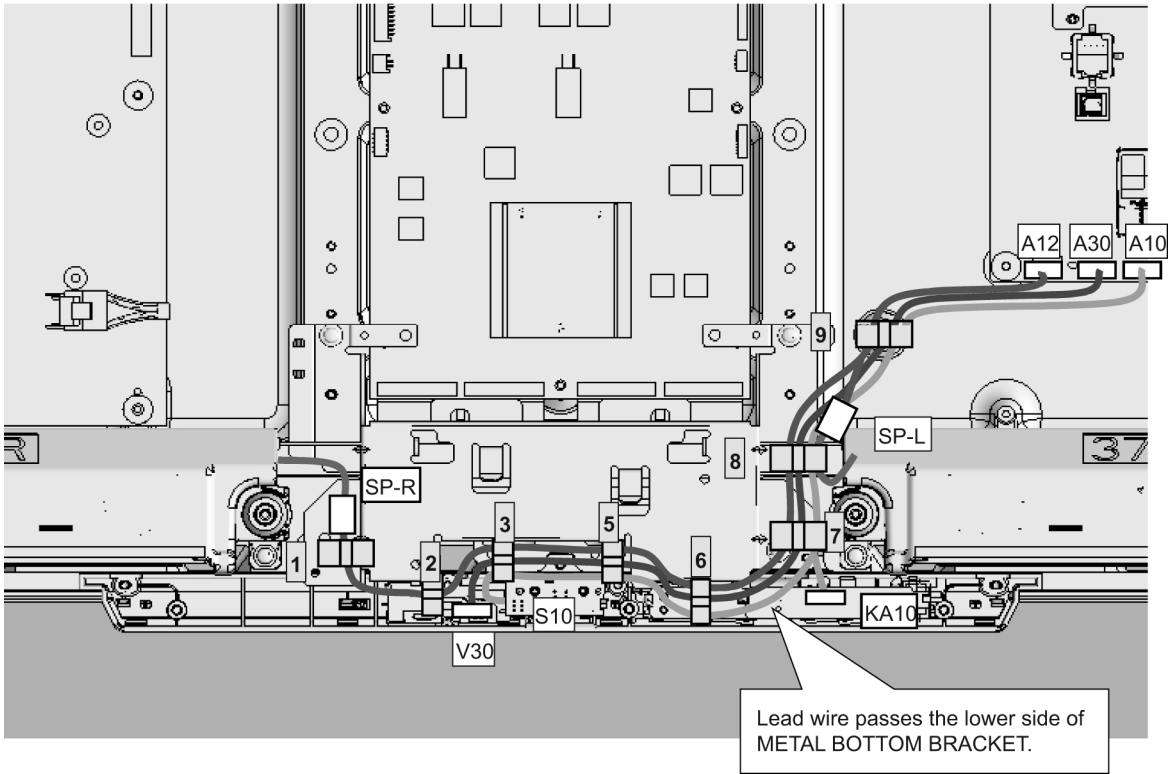
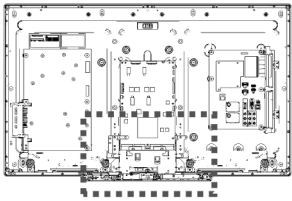
9.3. Detailed Block Diagram 2/2



10 Wiring Connection Diagram

10.1. Dressing wires

Wiring 1~9



Wire		Clamper								
		1	2	3	4	5	6	7	8	9
No.1	A12-SP-R	●	●	●		●	●	●	●	●
No.2	A12-SP-L								●	●
No.3	A30-V30			●		●	●	●	●	●
No.4	A10-S10			●		●	●	●	●	●
No.5	A10-KA10							●	●	●

11 Schematic Diagram

11.1. Schematic Diagram Notes

Notes:

1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
Unit of capacitance is μ F, unless otherwise noted.
3. **Coil**
Unit of inductance is H, unless otherwise noted.
4. **Test Point**
 : Test Point position
5. **Earth Symbol**
 : Chassis Earth (Cold)  : Line Earth (Hot)
6. **Voltage Measurement**
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:

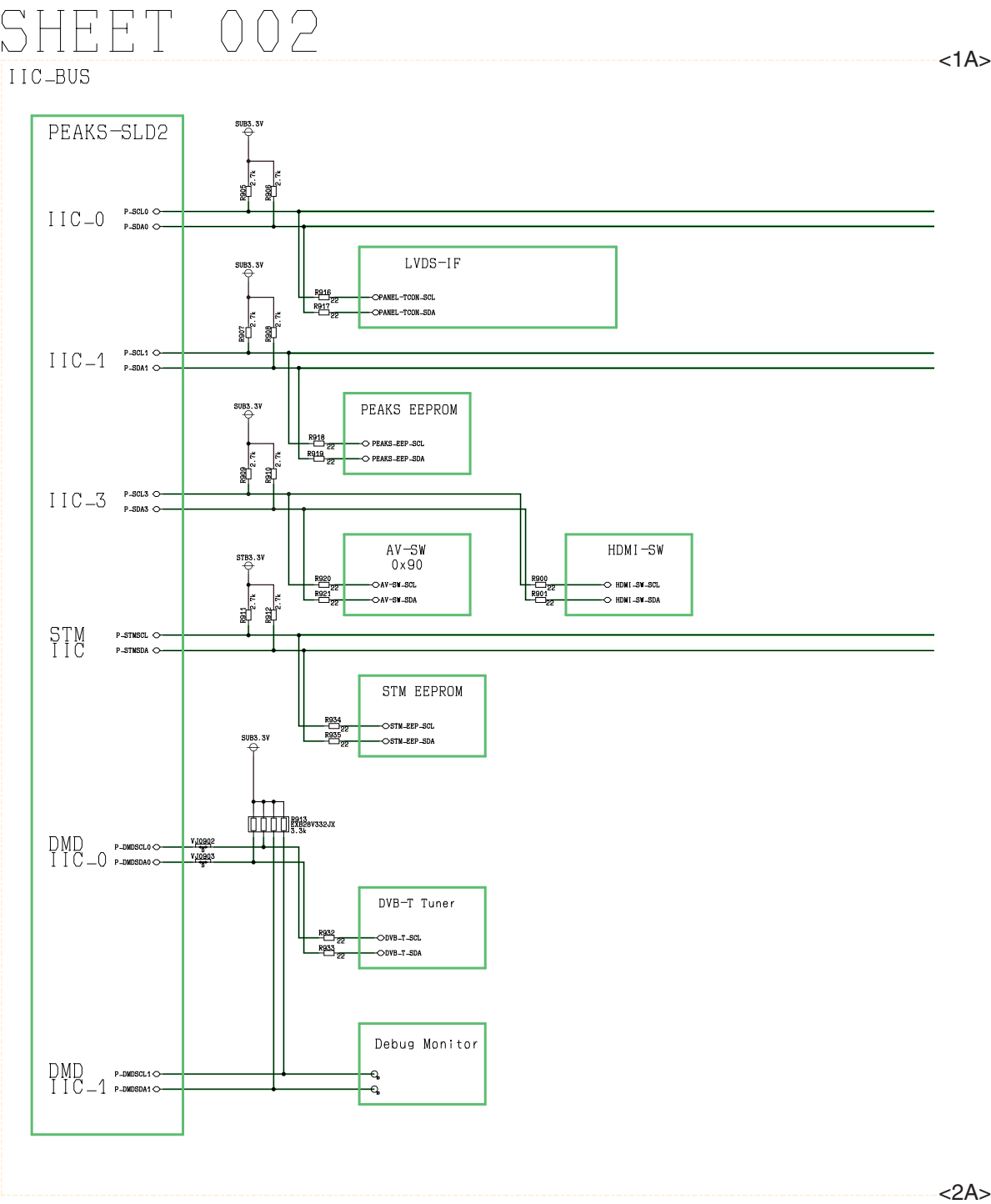
Power Source	AC110-127V, 60Hz
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions
7. When arrow mark () is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video  Audio 
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

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

11.2. A Board

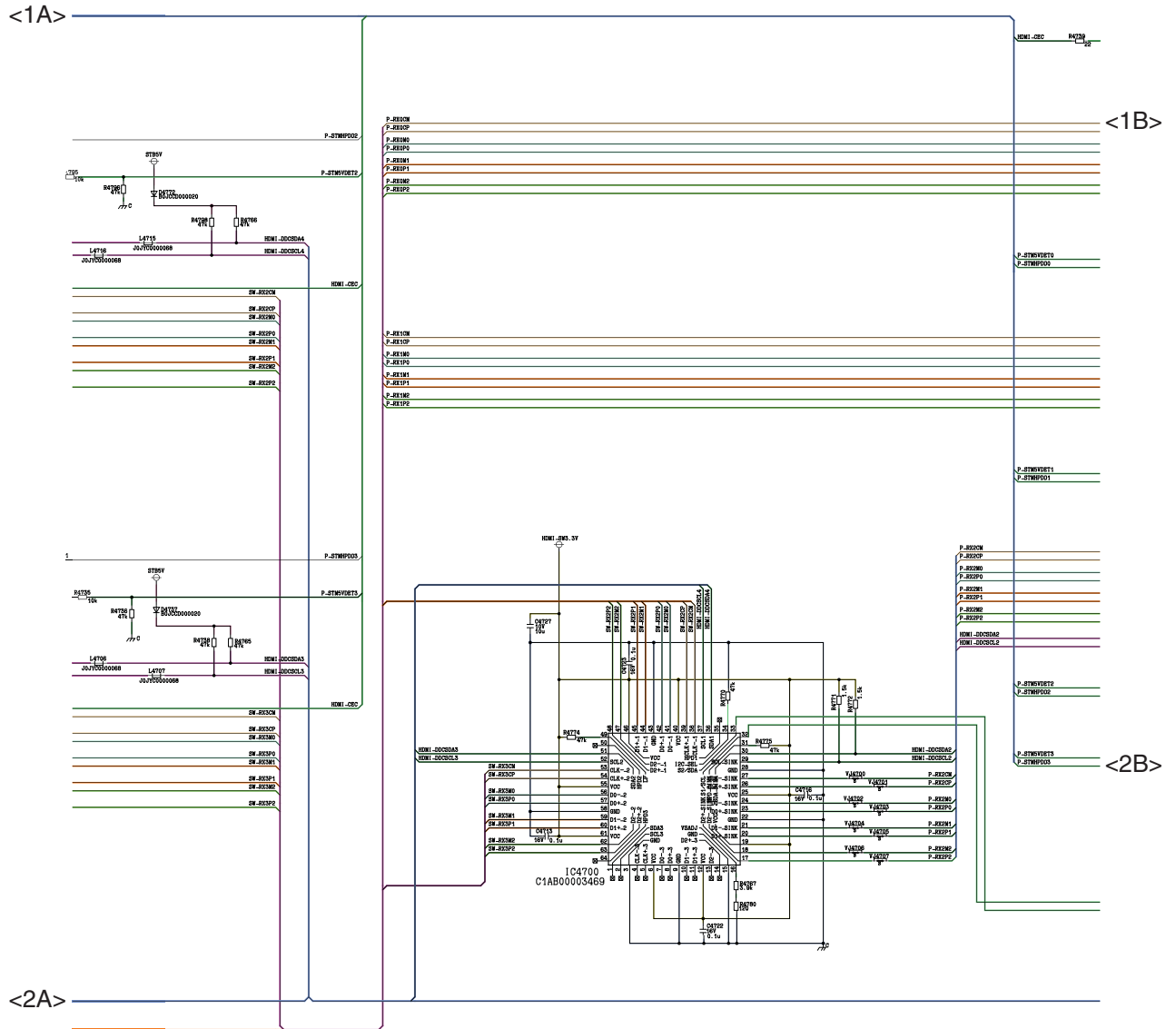
11.2.1. A Board - Sheet : 002 (1 / 2)

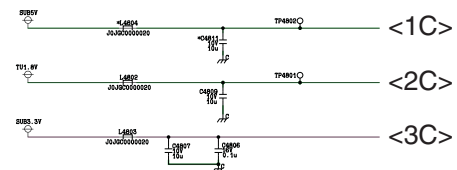


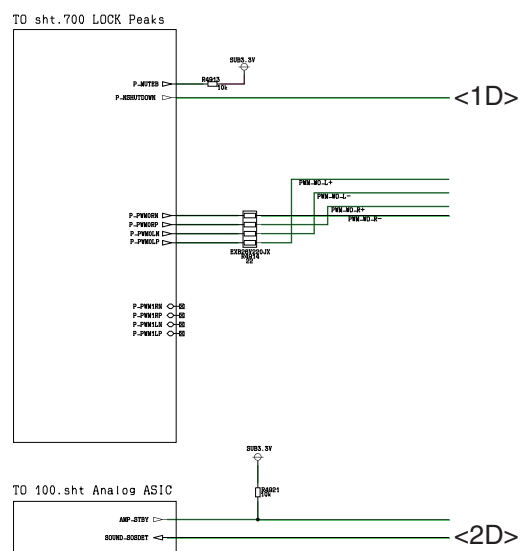
45



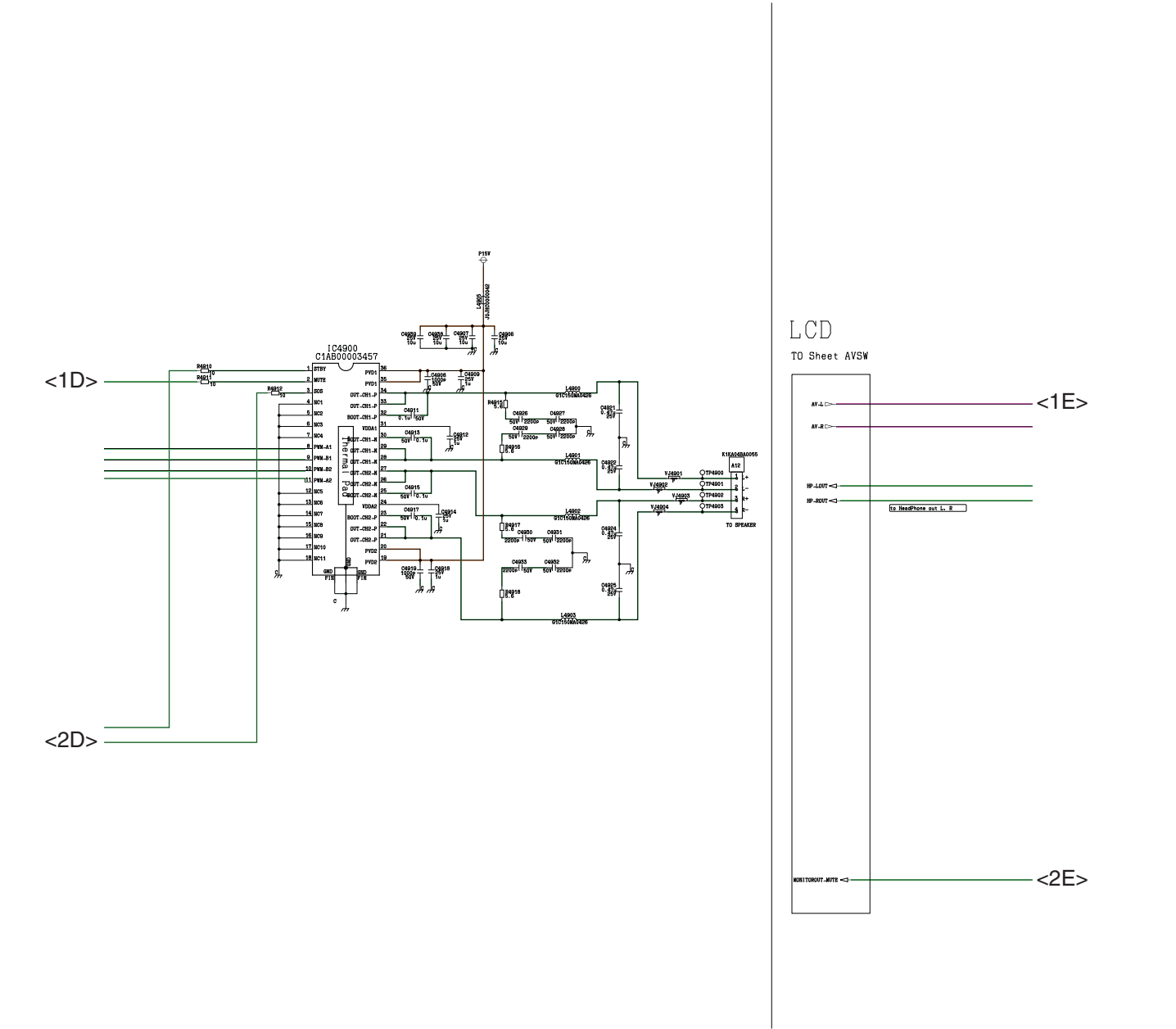
11.2.4. A Board - Sheet : 003 (2 / 6)





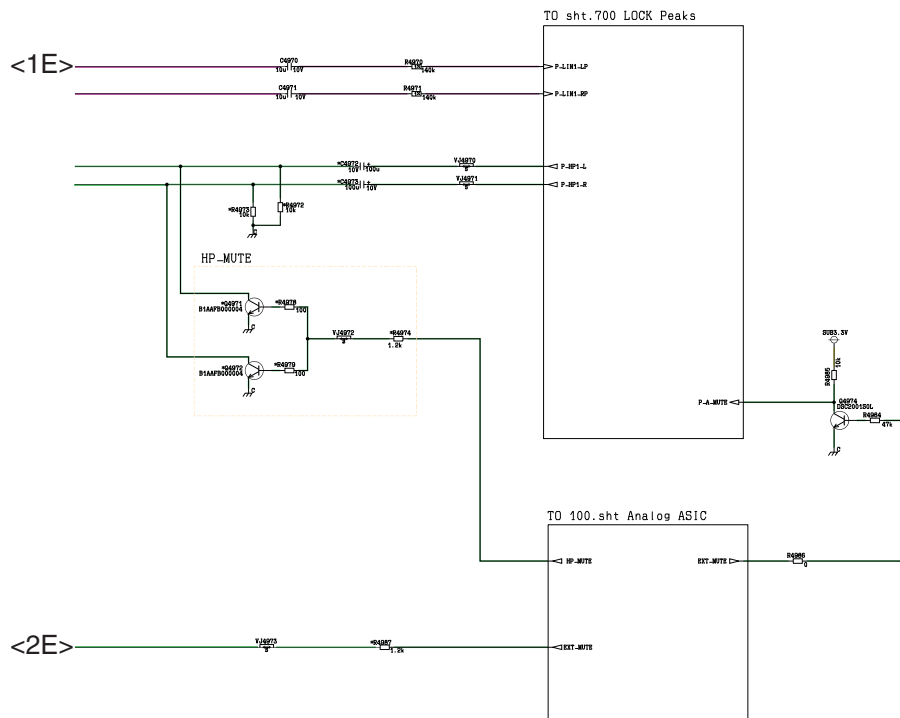


11.2.7. A Board - Sheet : 003 (5 / 6)



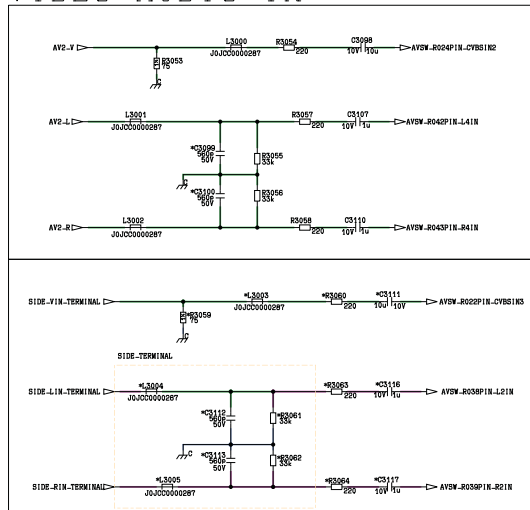
11.2.8. A Board - Sheet : 003 (6 / 6)

SHEET 003

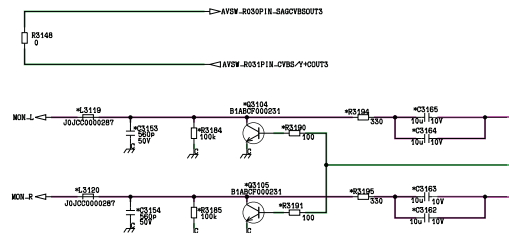


11.2.9. A Board - Sheet : 004 (1 / 2)

VIDEO/AUDIO IN

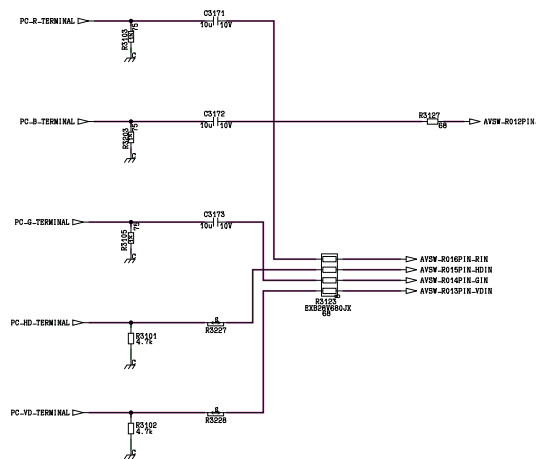


MONITOR OUT



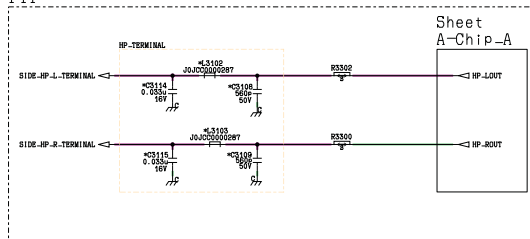
<1A>

PC



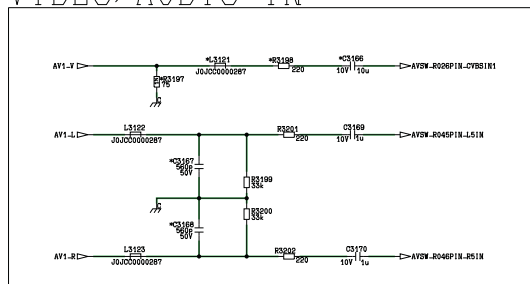
<2A>

HP

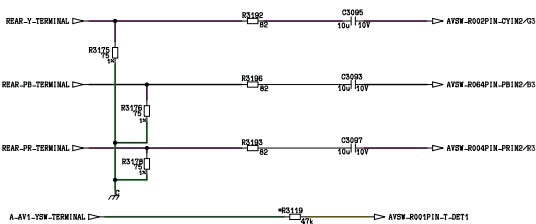
Sheet
A-Chip-A

<3A>

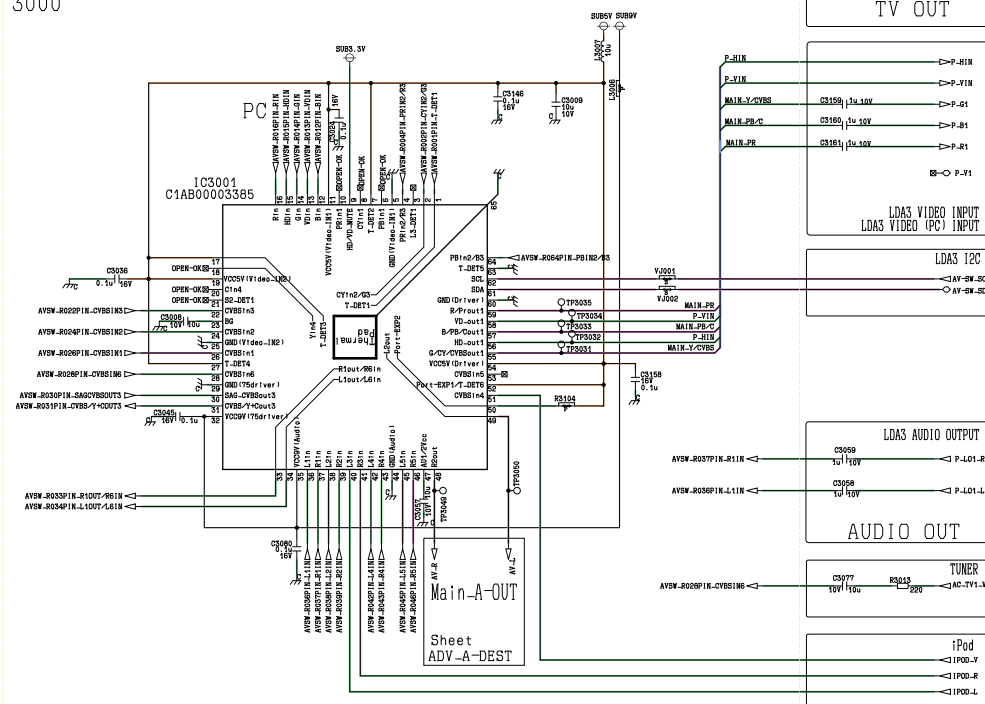
VIDEO/AUDIO IN



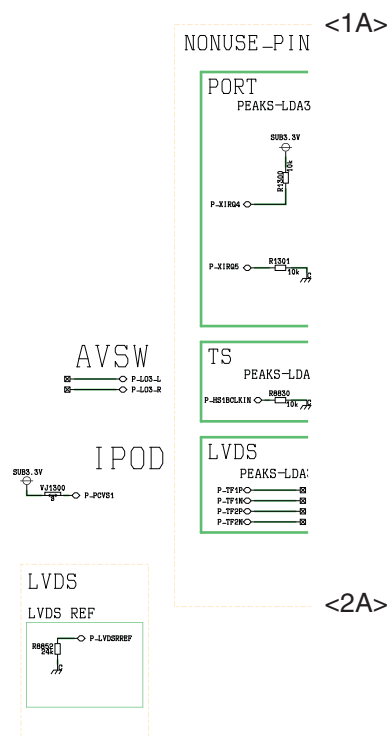
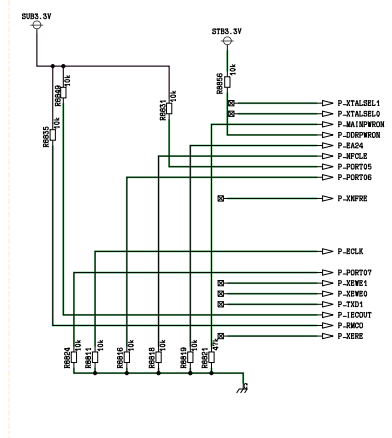
YPbPr



<4A>

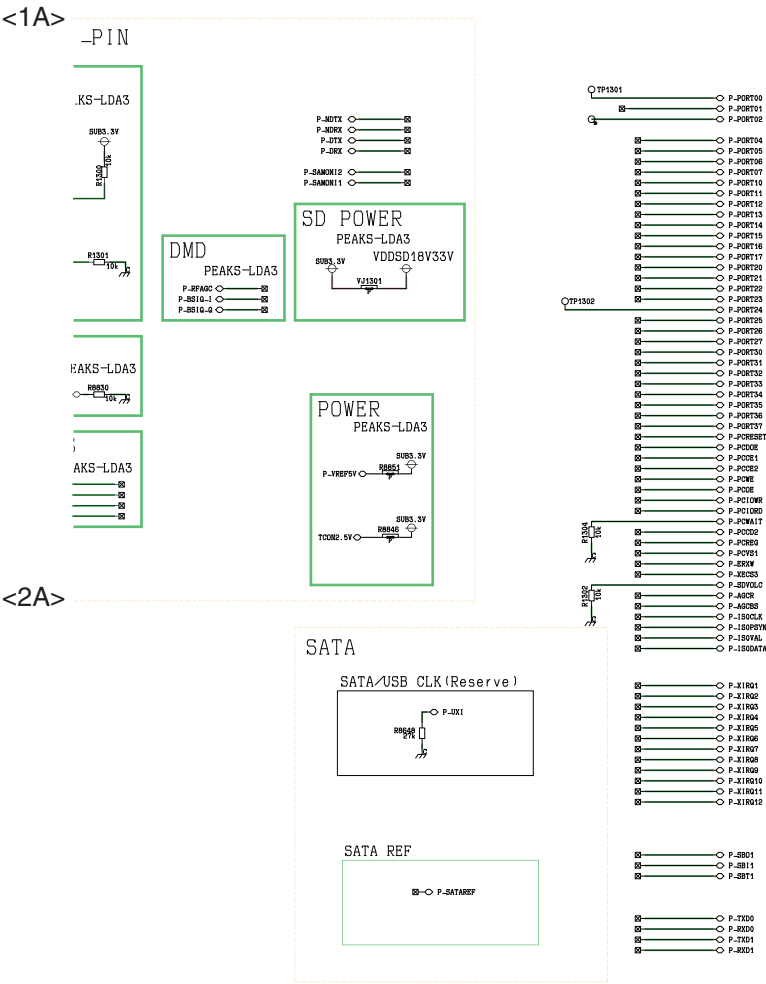


SHEET 004



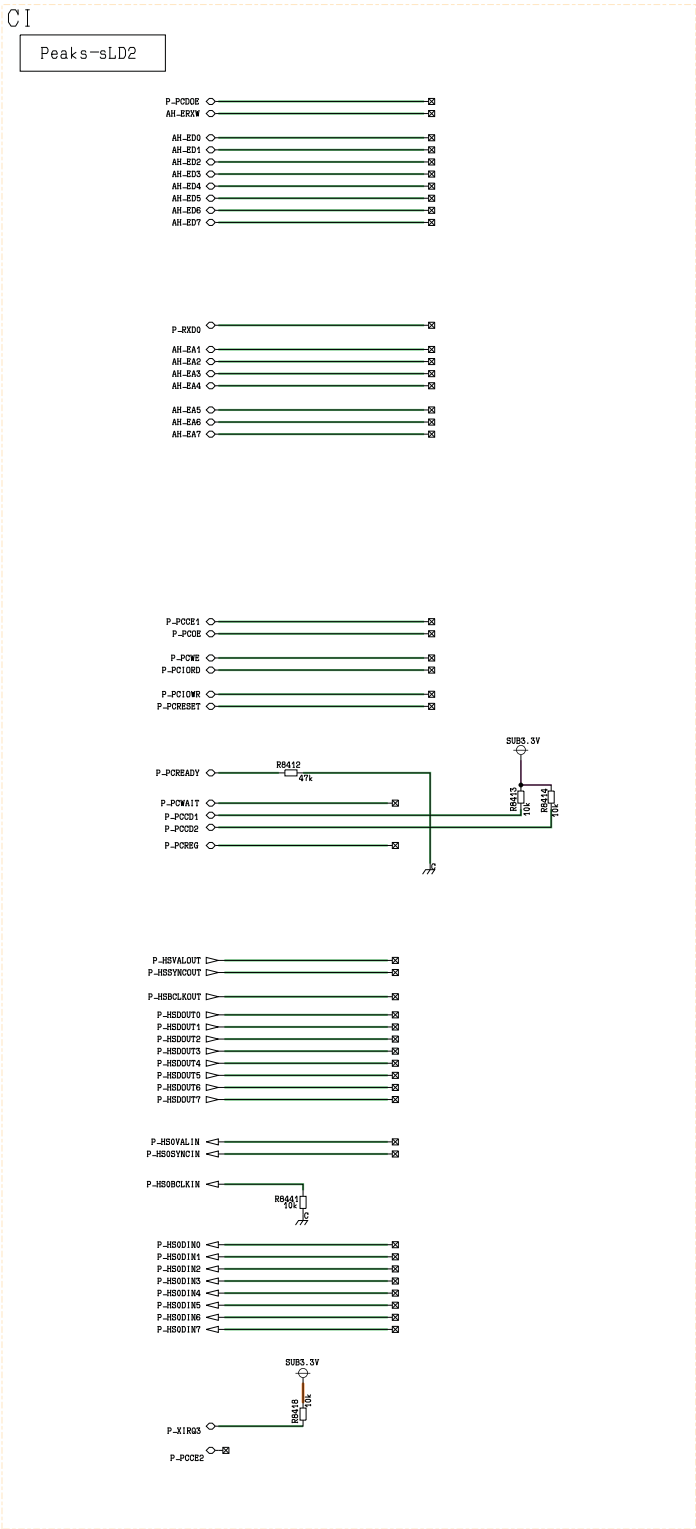
11.2.12. A Board - Sheet : 005 (2 / 2)

SHEET 005



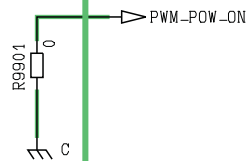
11.2.13. A Board - Sheet : 006 (1 / 1)

SHEET 006



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

SHEET 008

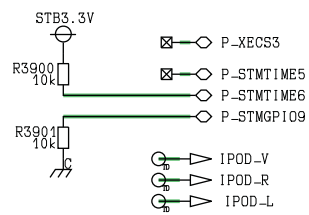
IC5000
AN34043A
Analog ASIC

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

SHEET 010

iPod

REF No. 3900 — 3999

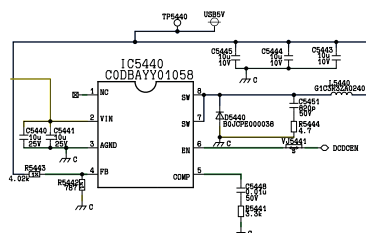


11.2.18. A Board - Sheet : 100 (2 / 4)

<1A> -3.3V CRNo.5460~5479

1-3.3V

CRNo. 5440~5459



<2A>

IC8000
STM

SOS

P-STMGPI02 <1B>

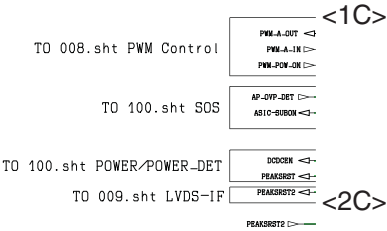
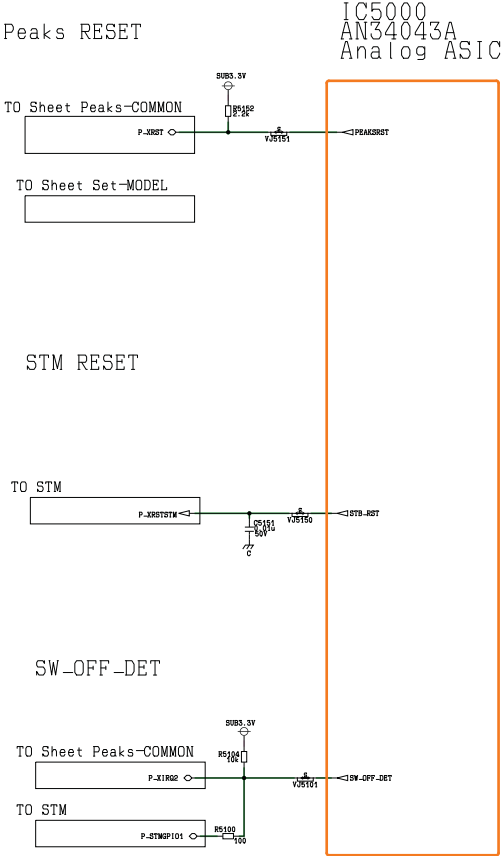
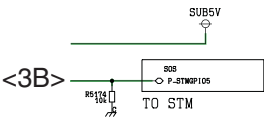
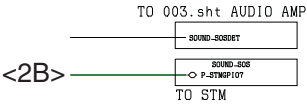
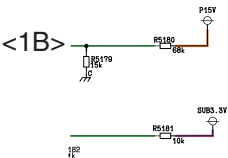
IC5000
AN34043A
Analog ASIC

OVP SOS

○ SOUND_SCS ▢ VJ5176 <2B>

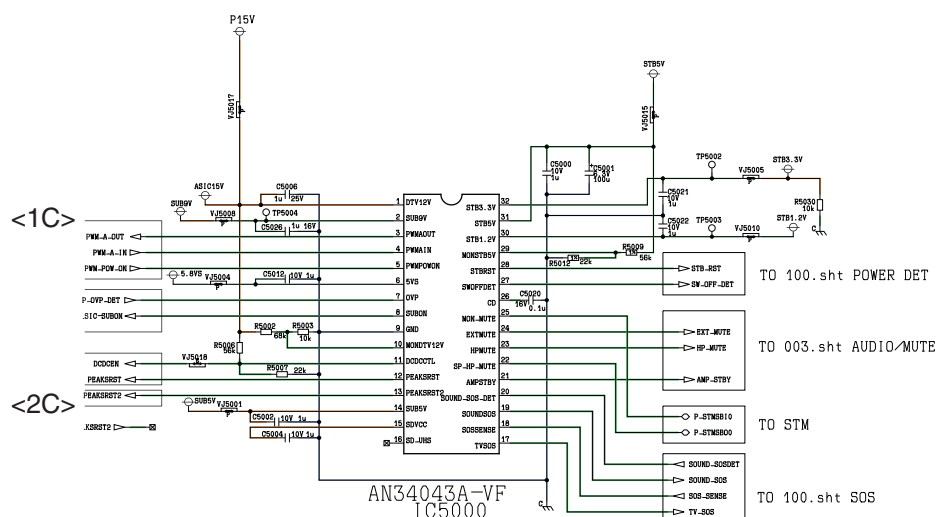
TV-SOS <3B>

11.2.19. A Board - Sheet : 100 (3 / 4)



11.2.20. A Board - Sheet : 100 (4 / 4)

SHEET 100



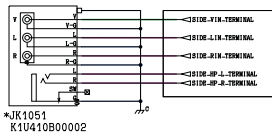


11.2.22. A Board - Sheet : 101 (2 / 4)

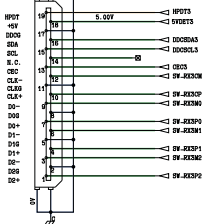
F No. 1050 - 1099

<1A> DE AV Terminal

SIDE AV-INPUT & HP-out

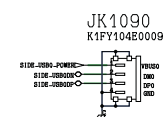


<2A>

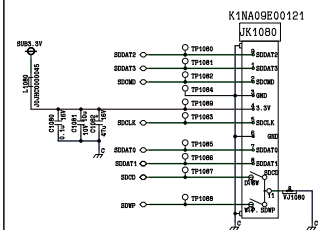
M14 JK1061
K1FY119E0026

<3A>

USB3

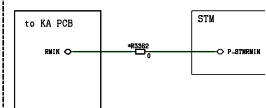


SD Slot



<1B>

RS232C

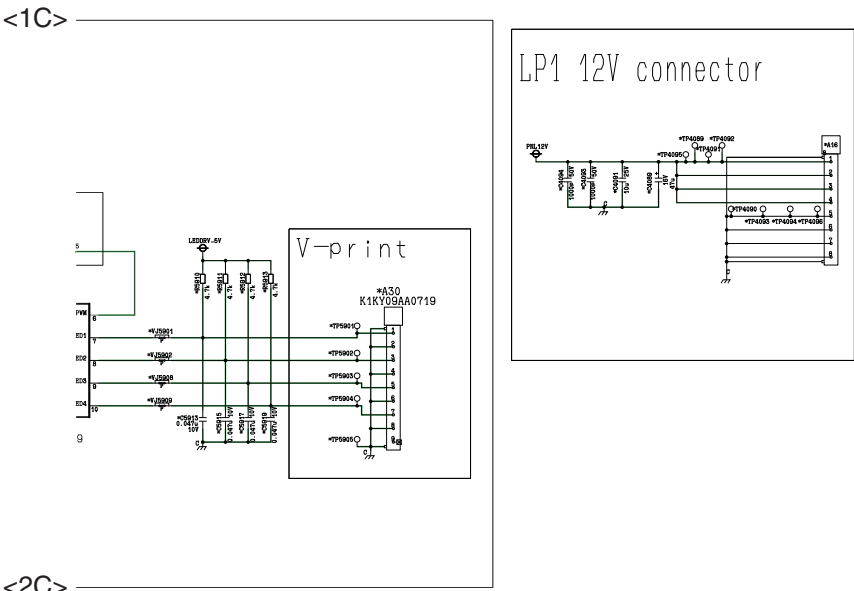


<2B>

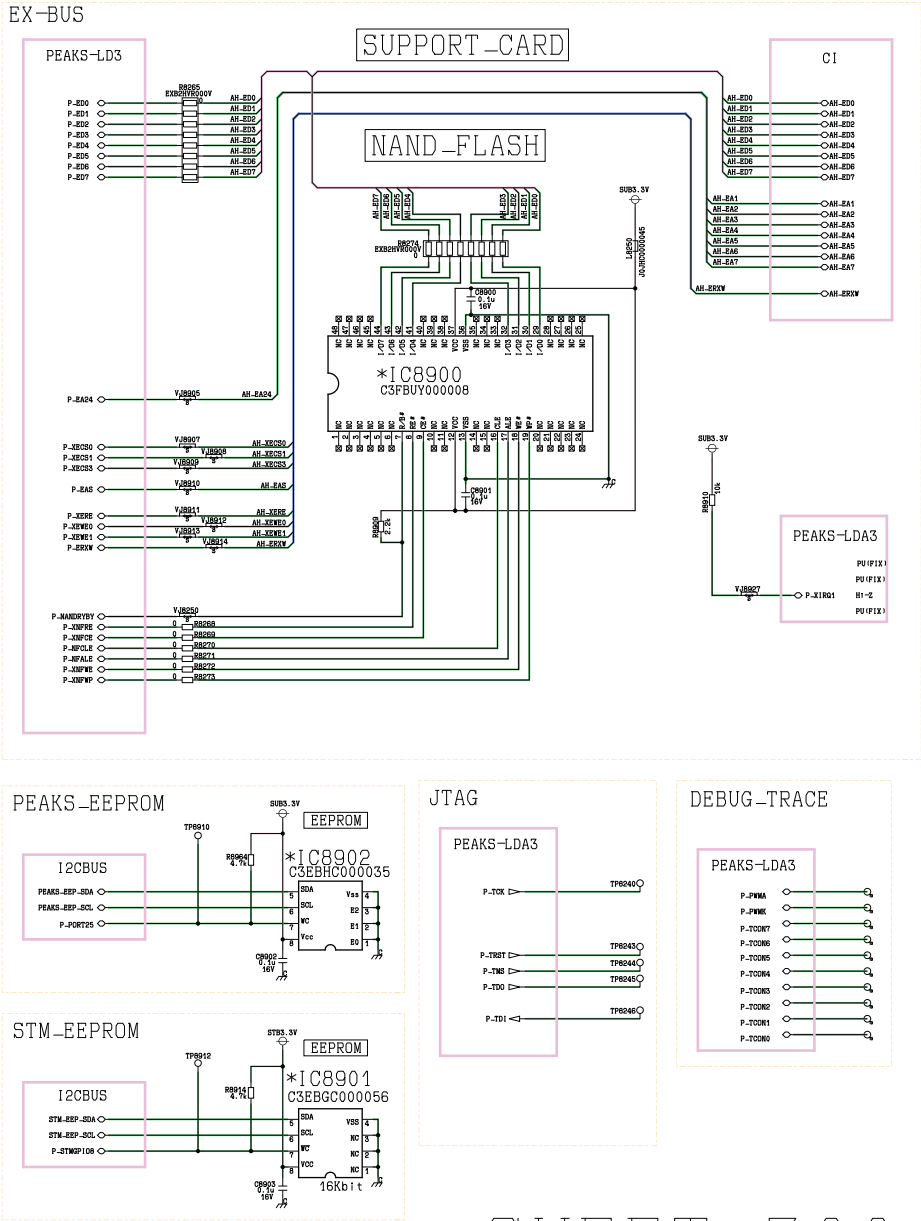


11.2.24. A Board - Sheet : 101 (4 / 4)

SHEET 101



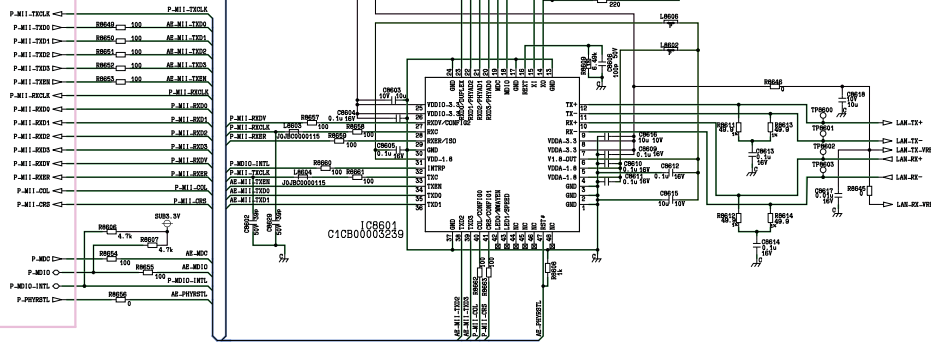
11.2.25. A Board - Sheet : 300 (1 / 1)



11.2.26. A Board - Sheet : 301 (1 / 2)

ETHER-PHY

PEAKS-LDA3

USB0
Side

PEAKS-LDA3

P-USBVIBUS
P-USBIO0
P-USBIO1
P-USBIO2

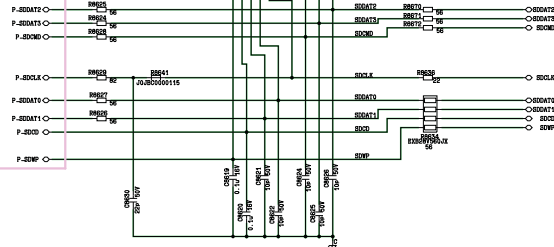
USB1
Top

PEAKS-LDA3

P-USBVIBUS
P-USBIO0
P-USBIO1
P-USBIO2

SD_CARD

PEAKS-LDA3

USB2
Top

PEAKS-LDA3

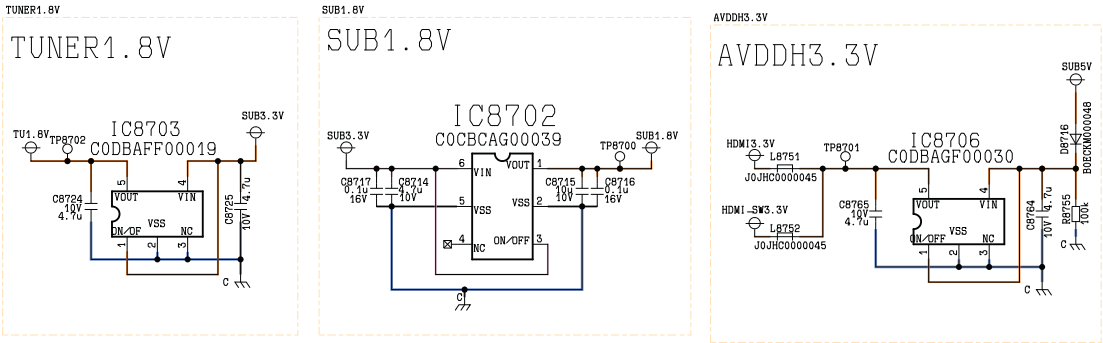
P-USBVIBUS
P-USBIO0
P-USBIO1
P-USBIO2

[illegible]

70

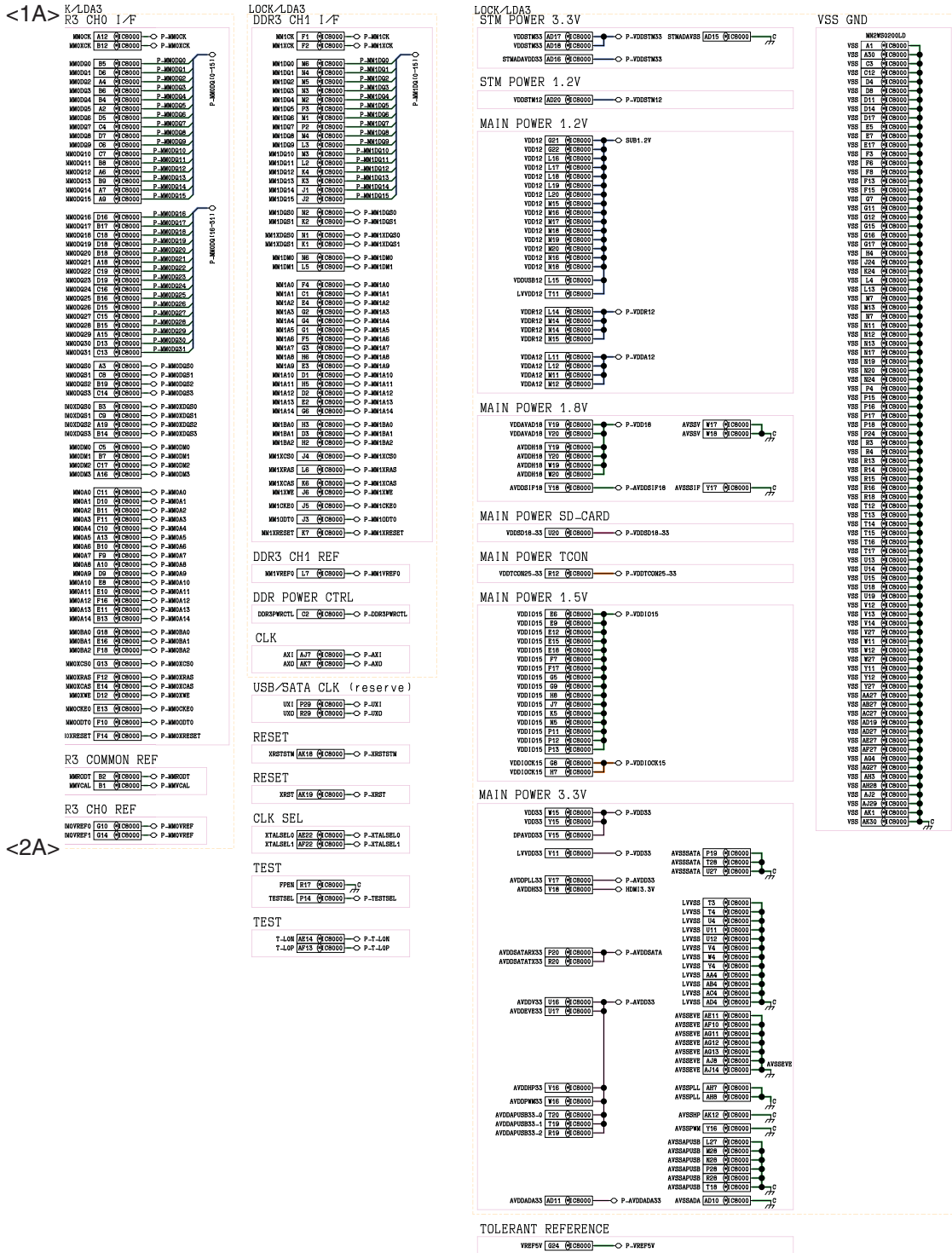
11.2.28. A Board - Sheet : 302 (1 / 1)

SHEET 302

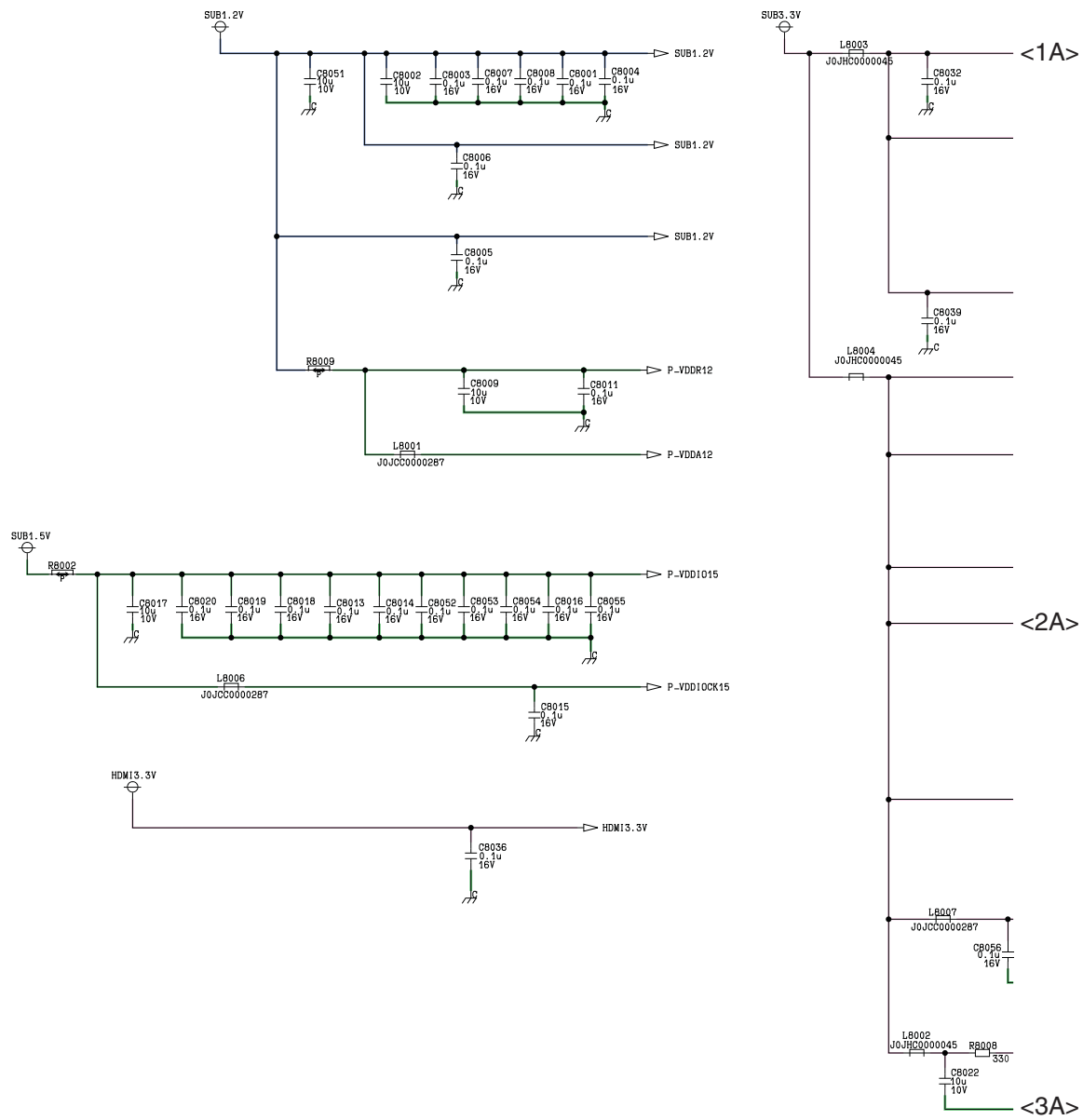




11.2.30. A Board - Sheet : 700 (2 / 2)

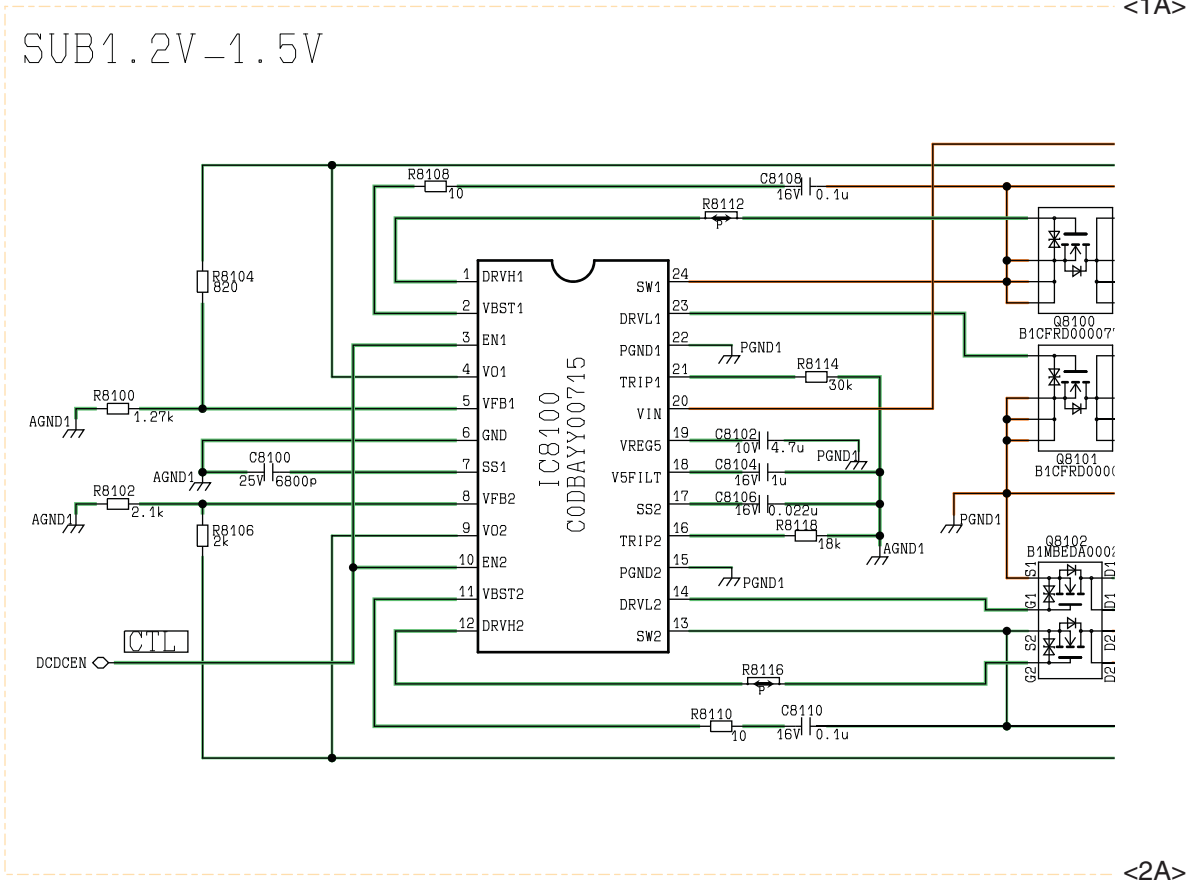


11.2.31. A Board - Sheet : 701 (1 / 2)



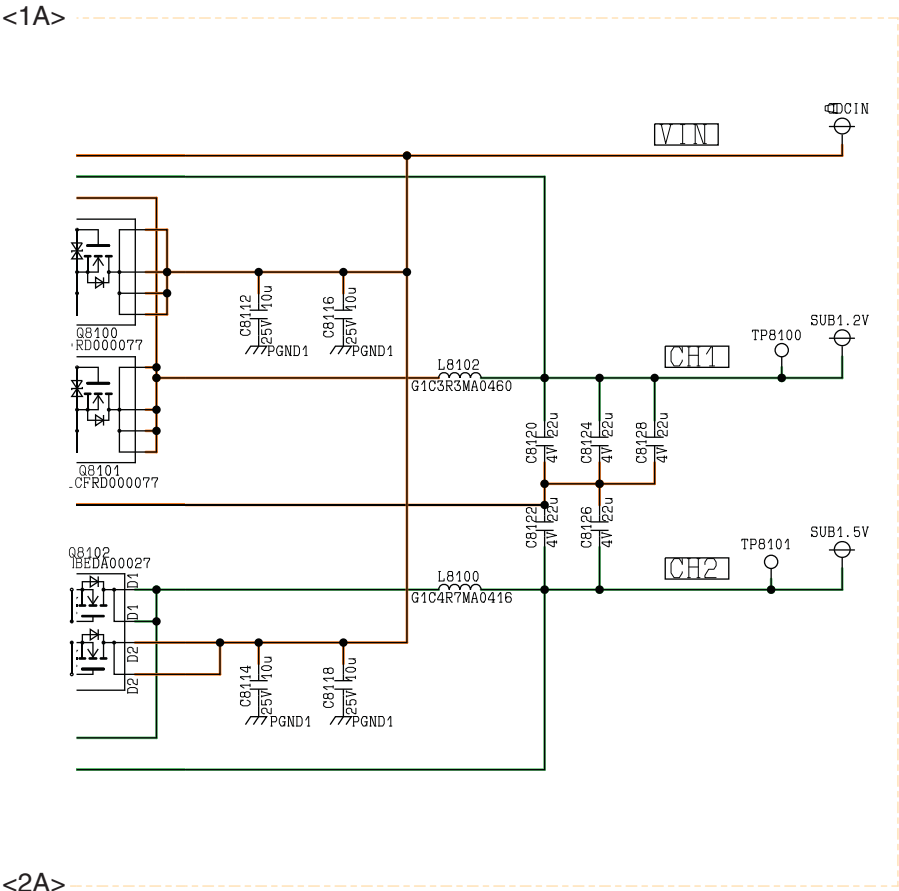


11.2.33. A Board - Sheet : 702 (1 / 2)



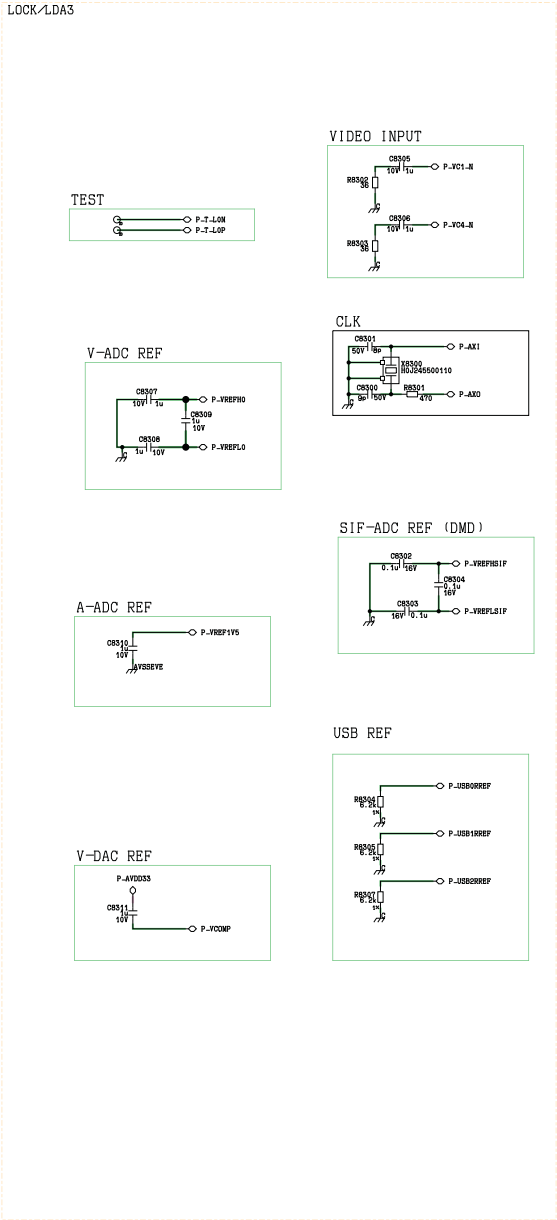
11.2.34. A Board - Sheet : 702 (2 / 2)

SHEET 702



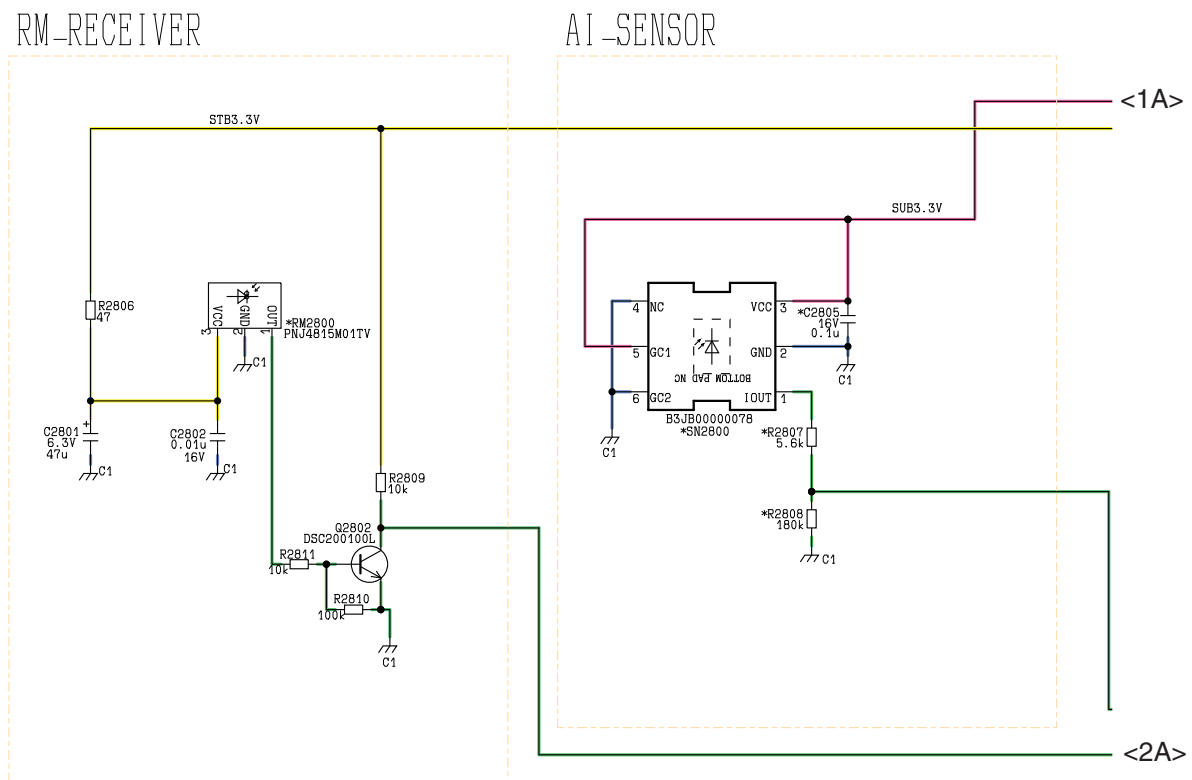


11.2.36. A Board - Sheet : 704 (1 / 1)



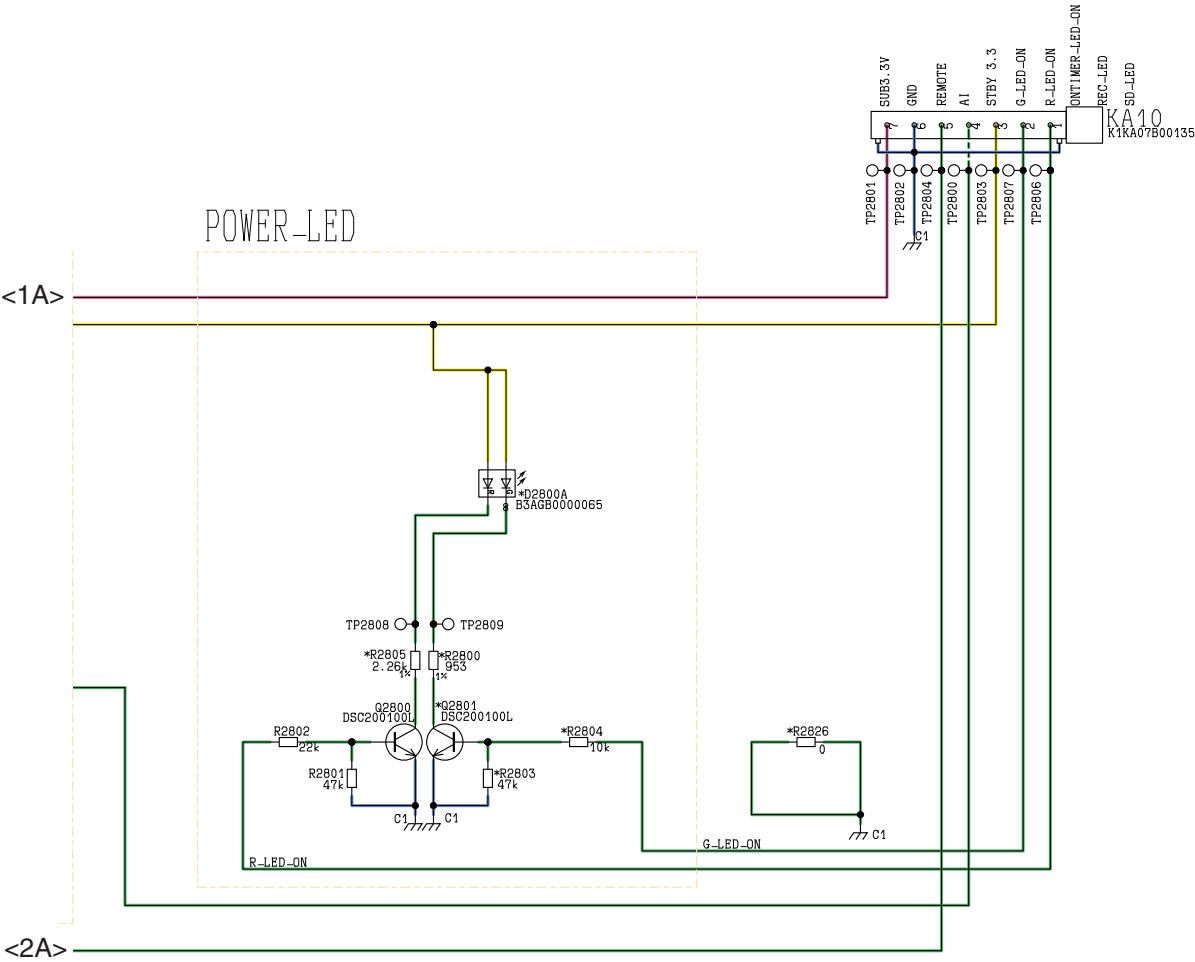
11.3. KA Board

11.3.1. KA Board (1 / 2)



11.3.2. KA Board (2 / 2)

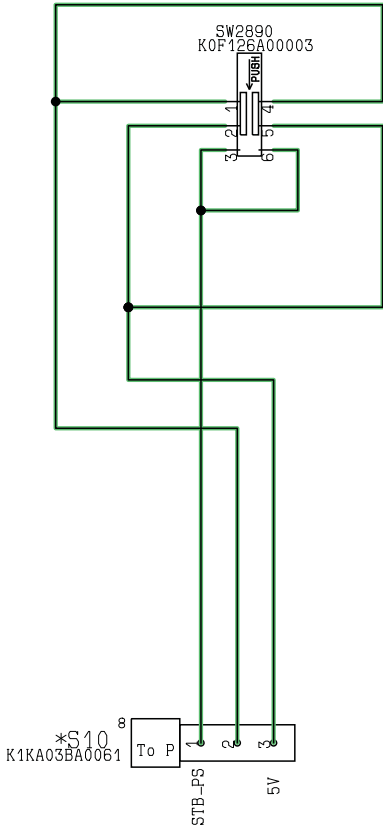
TNPA5378AB
KA BOARD



11.4. S Board

11.4.1. S Board (1 / 1)

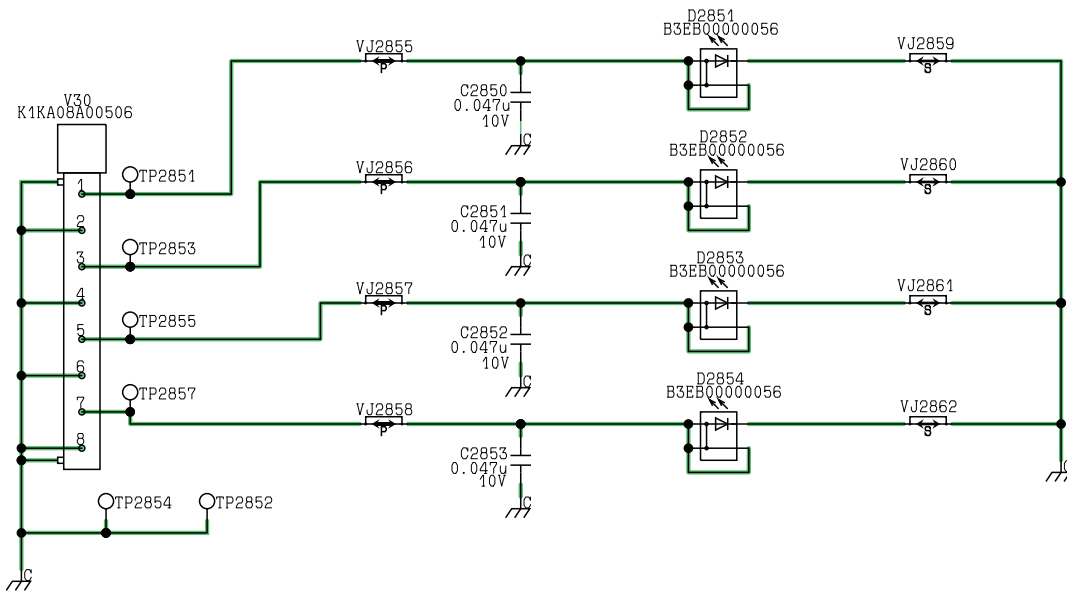
TNPA5394AB
S BOARD



11.5. V Board

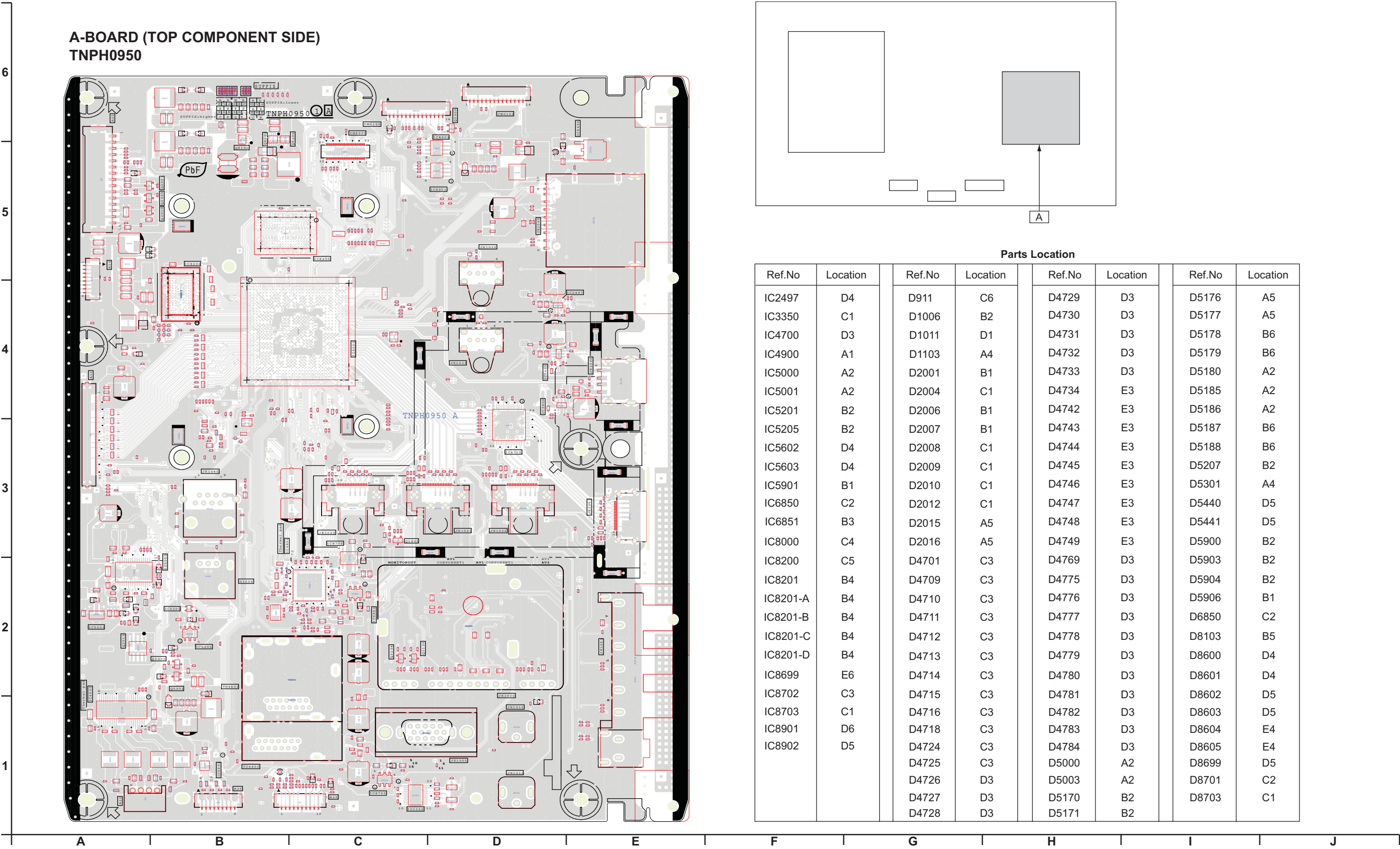
11.5.1. V Board (1 / 1)

TNPA5414AA
V BOARD

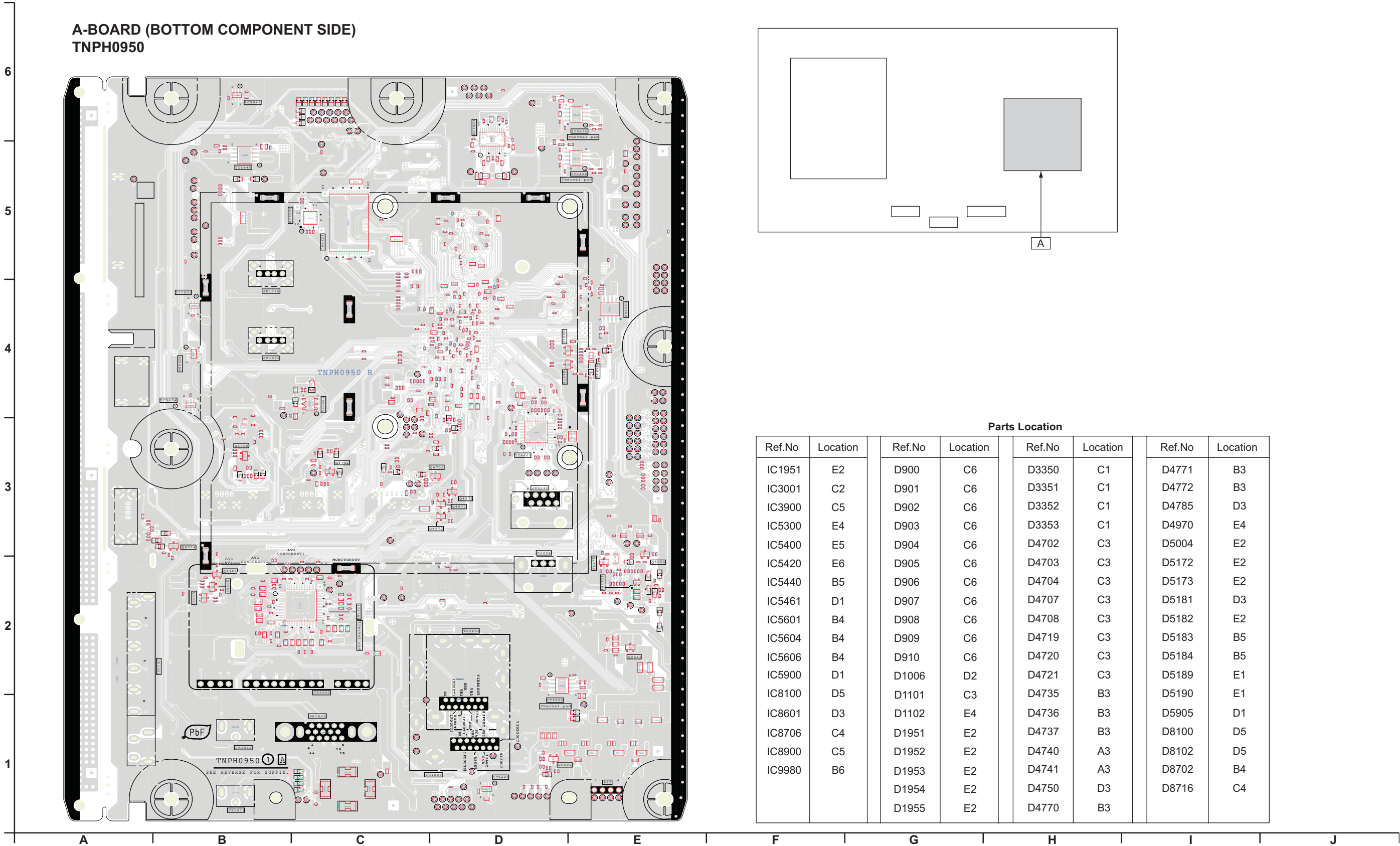


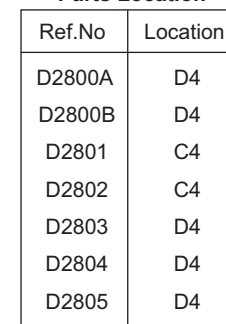
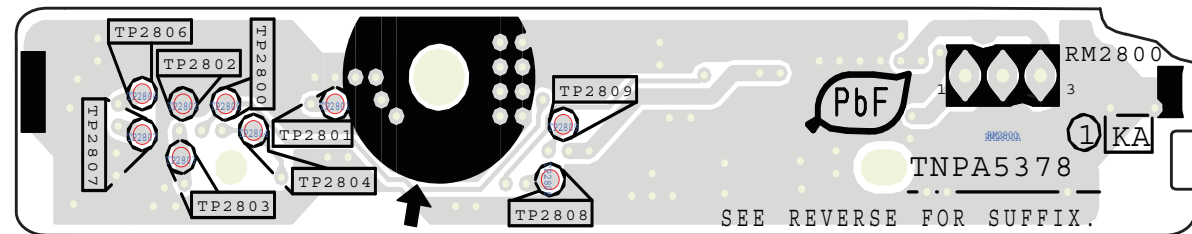
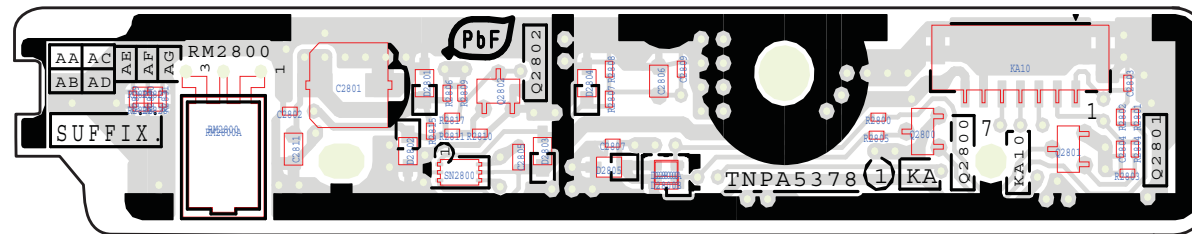
12 Printed Circuit Board

12.1. A-BOARD

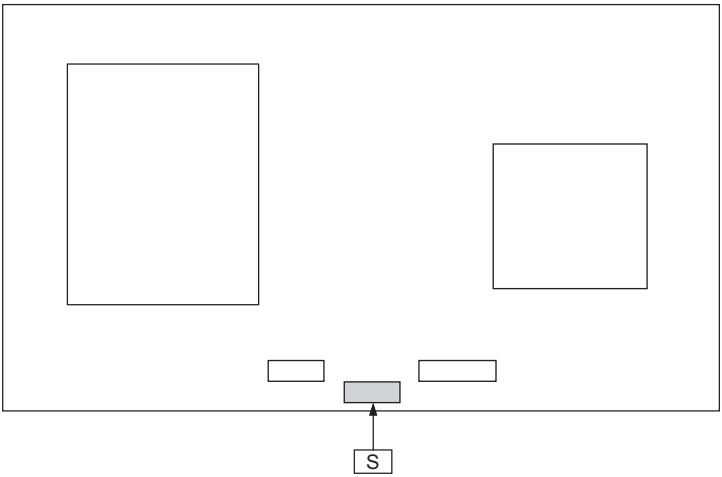


A-BOARD (BOTTOM COMPONENT SIDE)
TNPH0950

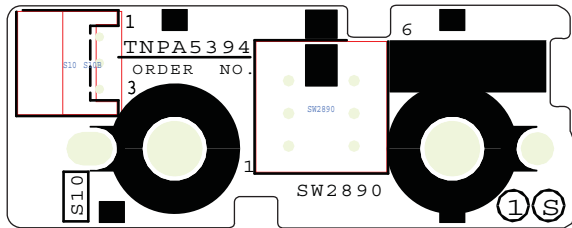




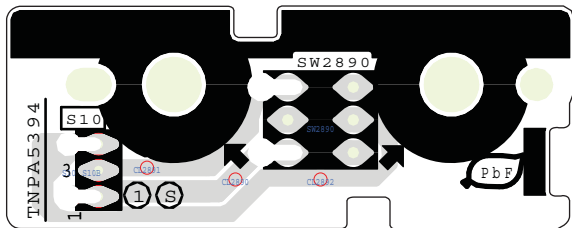
12.3. S-BOARD



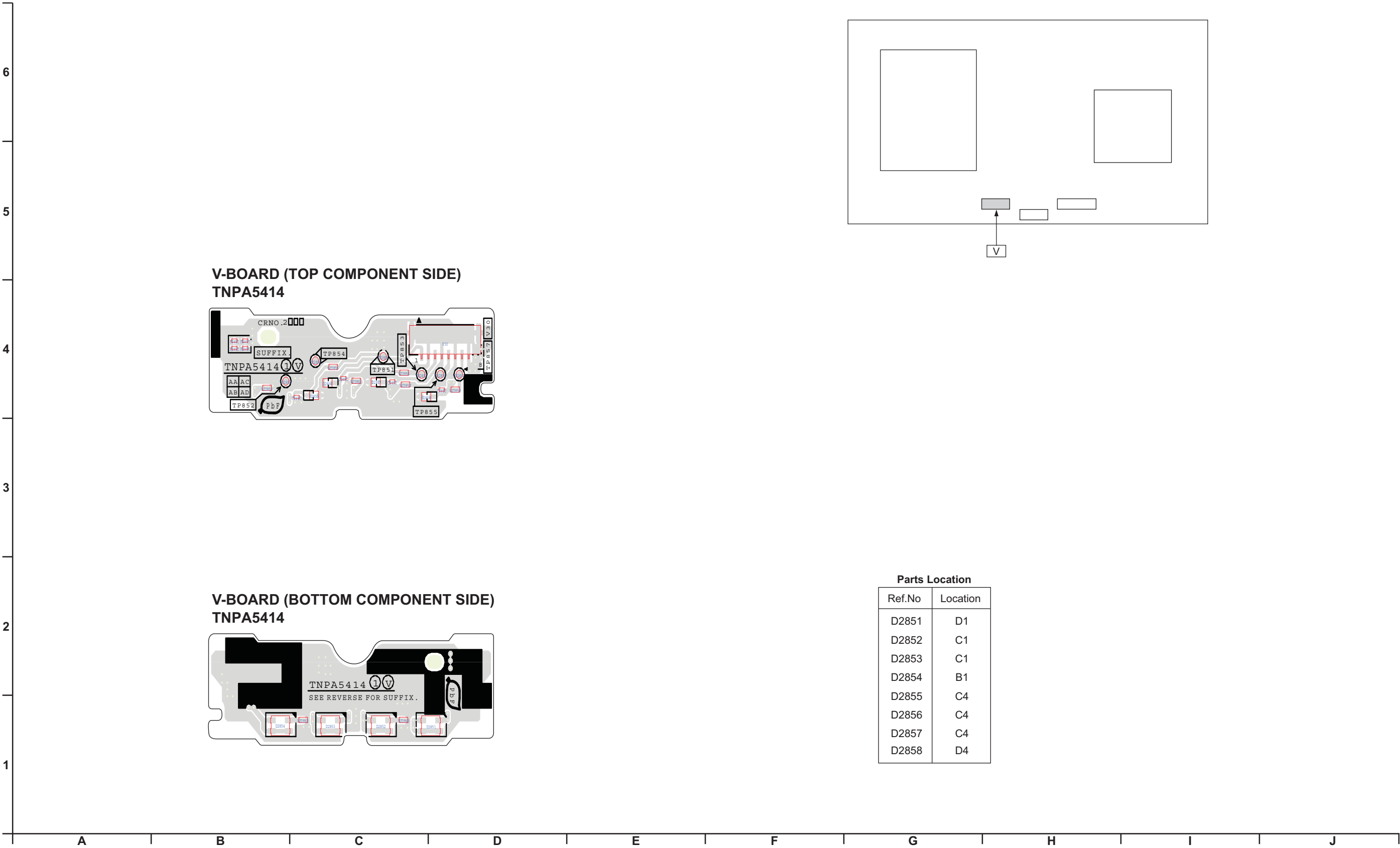
S-BOARD (TOP COMPONENT SIDE)
TNPA5394



S-BOARD (BOTTOM COMPONENT SIDE)
TNPA5394



12.4. V-BOARD



13 Exploded View and Replacement Parts List

13.1. Exploded View and Mechanical Replacement Parts List

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

13.2. Electrical Replacement Parts List

13.2.1. Replacement Parts List Notes

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J 1/4W
 Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z 50V
 Type Allowance

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

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

13.2.2. Electrical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
	C1080	F1G1C104A077	C 0.1UF , 16V	
	C1081	F1J1A106A087	C 10UF , 10V	
	C1082	F2G1C470A022	C 47UF , 16V	
	C1101	F1G1E1030005	C 0.01UF , 25V	
	C1102	F1H1H104A970	C 0.1UF , 16V	
	C2000	F1G1C104A077	C 0.1UF , 16V	
	C2001	F1G1H1020008	C 1000PF , 50V	
	C2003	F1G1H1020008	C 1000PF , 50V	
	C2004	F1G1H1020008	C 1000PF , 50V	
	C2005	F1G1H1020008	C 1000PF , 50V	
	C2008	F1G1C104A077	C 0.1UF , 16V	
	C2009	F1G1H1020008	C 1000PF , 50V	
	C2014	F1K1E106A136	C 10UF , 25V	
	C2023	F1G1C104A077	C 0.1UF , 16V	
	C2801	F2G0J470A019	E 47UF , 6.3V	
	C2802	F1G1C1030008	C 0.01UF , 16V	
	C2805	F1H1C104A041	C 0.1UF , 16V	
	C2850	F1G1A473A032	C 0.047UF , 10V	
	C2851	F1G1A473A032	C 0.047UF , 10V	
	C2852	F1G1A473A032	C 0.047UF , 10V	
	C2853	F1G1A473A032	C 0.047UF , 10V	
	C3008	F1J1A106A043	C 10UF , 10V	
	C3009	F1J1A106A087	C 10UF , 10V	
	C3024	F1G1C104A077	C 0.1UF , 16V	
	C3036	F1G1C104A077	C 0.1UF , 16V	
	C3045	F1G1C104A077	C 0.1UF , 16V	
	C3057	F1J1A106A043	C 10UF , 10V	
	C3058	F1G1A105A047	C 1UF , 10V	
	C3059	F1G1A105A047	C 1UF , 10V	
	C3077	F1J1A106A043	C 10UF , 10V	
	C3080	F1G1C104A077	C 0.1UF , 16V	
	C3093	F1J1A106A087	C 10UF , 10V	
	C3095	F1J1A106A087	C 10UF , 10V	
	C3097	F1J1A106A087	C 10UF , 10V	
	C3098	F1J1A106A087	C 10UF , 10V	
	C3099	F1G1H5610004	C 560PF , 50V	
	C3100	F1G1H5610004	C 560PF , 50V	
	C3107	F1H1A105A025	C 1UF , 10V	
	C3108	F1G1H5610004	C 560PF , 50V	
	C3109	F1G1H5610004	C 560PF , 50V	
	C3110	F1H1A105A025	C 1UF , 10V	
	C3111	F1J1A106A087	C 10UF , 10V	
	C3112	F1G1H5610004	C 560PF , 50V	
	C3113	F1G1H5610004	C 560PF , 50V	
	C3114	F1G1C333A081	C 0.033UF , 16V	
	C3115	F1G1C333A081	C 0.033UF , 16V	
	C3116	F1H1A105A025	C 1UF , 10V	
	C3117	F1H1A105A025	C 1UF , 10V	
	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	F1J1A106A087	C 10UF , 10V	
	C3163	F1J1A106A087	C 10UF , 10V	
	C3164	F1J1A106A087	C 10UF , 10V	
	C3165	F1J1A106A087	C 10UF , 10V	
	C3166	F1J1A106A087	C 10UF , 10V	
	C3167	F1G1H5610004	C 560PF , 50V	
	C3168	F1G1H5610004	C 560PF , 50V	
	C3169	F1H1A105A025	C 1UF , 10V	
	C3170	F1H1A105A025	C 1UF , 10V	
	C3171	F1J1A106A087	C 10UF , 10V	
	C3172	F1J1A106A087	C 10UF , 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C3173	F1J1A106A087	C 10UF , 10V	
	C4089	F2G1C470A022	C 47UF , 16V	
	C4091	F1K1E106A136	C 10UF , 25V	
	C4093	F1G1H1020008	C 1000PF , 50V	
	C4094	F1G1H1020008	C 1000PF , 50V	
	C4546	F1H0J1050013	C 1UF , 6.3V	
	C4547	F1H0J1050013	C 1UF , 6.3V	
	C4701	F1G1C104A077	C 0.1UF , 16V	
	C4704	F1G1C104A077	C 0.1UF , 16V	
	C4707	F1G1C104A077	C 0.1UF , 16V	
	C4713	F1G1C104A077	C 0.1UF , 16V	
	C4716	F1G1C104A077	C 0.1UF , 16V	
	C4722	F1G1C104A077	C 0.1UF , 16V	
	C4723	F1G1C104A077	C 0.1UF , 16V	
	C4727	F1J1A106A087	C 10UF , 10V	
	C4730	F1G1C104A077	C 0.1UF , 16V	
	C4800	F1G1A105A047	C 1UF , 10V	
	C4801	F1G1A105A047	C 1UF , 10V	
	C4802	F1G1H220A565	C 22PF , 50V	
	C4804	F1G1C104A077	C 0.1UF , 16V	
	C4805	F1G1C104A077	C 0.1UF , 16V	
	C4806	F1G1C104A077	C 0.1UF , 16V	
	C4807	F1J1A106A043	C 10UF , 10V	
	C4809	F1J1A106A043	C 10UF , 10V	
	C4811	F1J1A106A043	C 10UF , 10V	
	C4812	F1G1C104A077	C 0.1UF , 16V	
	C4816	F1G1H220A565	C 22PF , 50V	
	C4817	F1G1H220A565	C 22PF , 50V	
	C4819	F1G1C104A077	C 0.1UF , 16V	
	C4824	F1G1H220A565	C 22PF , 50V	
	C4906	F1K1E106A136	C 10UF , 25V	
	C4907	F1K1E106A136	C 10UF , 25V	
	C4908	F1G1H1020008	C 1000PF , 50V	
	C4909	F1J1E105A231	C 1UF , 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	
	C4917	F1H1H104A970	C 0.1UF , 16V	
	C4918	F1J1E105A231	C 1UF , 25V	
	C4919	F1G1H1020008	C 1000PF , 50V	
	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	F1H1H222A219	C 2200PF , 50V	
	C4927	F1H1H222A219	C 2200PF , 50V	
	C4928	F1H1H222A219	C 2200PF , 50V	
	C4929	F1H1H222A219	C 2200PF , 50V	
	C4930	F1H1H222A219	C 2200PF , 50V	
	C4931	F1H1H222A219	C 2200PF , 50V	
	C4932	F1H1H222A219	C 2200PF , 50V	
	C4933	F1H1H222A219	C 2200PF , 50V	
	C4938	F1K1E106A136	C 10UF , 25V	
	C4939	F1K1E106A136	C 10UF , 25V	
	C4970	F1J1A106A087	C 10UF , 10V	
	C4971	F1J1A106A087	C 10UF , 10V	
	C4972	F2H1A101A040	E 100UF , 10V	
	C4973	F2H1A101A040	E 100UF , 10V	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C5026	F1H1C105A145	C 1UF , 16V	
	C5151	F1H1H103A219	C 0.01UF , 50V	
	C5171	F1G1C1030008	C 0.01UF , 16V	
	C5240	F1H1A105A025	C 1UF , 10V	
	C5243	F1H1A105A025	C 1UF , 10V	
	C5300	F1G1H821A459	C 820PF , 50V	
	C5301	F1K1E106A136	C 10UF , 25V	
	C5302	F1K1E106A136	C 10UF , 25V	
	C5303	F1K1E106A136	C 10UF , 25V	
	C5304	F1K1E106A136	C 10UF , 25V	
	C5305	F1K1E106A136	C 10UF , 25V	
	C5306	F1K1E106A136	C 10UF , 25V	
	C5310	F1G1H472A571	C 820PF , 50V	
	C5400	F1K1E106A136	C 10UF , 25V	
	C5401	F1K1E106A136	C 10UF , 25V	
	C5402	F1G1E1030005	C 0.01UF , 25V	
	C5403	FLJ1A106A087	C 10UF , 10V	
	C5404	FLJ1A106A087	C 10UF , 10V	
	C5405	FLJ1A106A087	C 10UF , 10V	
	C5406	FLJ1A106A087	C 10UF , 10V	
	C5407	F1G1C223A081	C 0.022UF , 16V	
	C5408	F1G1E1030005	C 0.01UF , 25V	
	C5420	F1K1E106A136	C 10UF , 25V	
	C5421	F1K1E106A136	C 10UF , 25V	
	C5422	F1G1E1030005	C 0.01UF , 25V	
	C5423	FLJ1A106A087	C 10UF , 10V	
	C5424	FLJ1A106A087	C 10UF , 10V	
	C5425	FLJ1A106A087	C 10UF , 10V	
	C5426	FLJ1A106A087	C 10UF , 10V	
	C5427	F1G1C223A081	C 0.022UF , 16V	
	C5428	F1G1H272A571	C 2700PF , 50V	
	C5440	F1K1E106A136	C 10UF , 25V	
	C5441	F1K1E106A136	C 10UF , 25V	
	C5443	FLJ1A106A043	C 10UF , 10V	
	C5444	FLJ1A106A043	C 10UF , 10V	
	C5445	FLJ1A106A043	C 10UF , 10V	
	C5448	F1G1H103A509	C 0.01UF , 50V	
	C5451	F1G1H821A459	C 820PF , 50V	
	C5613	EEEHBOJ221UP	C 220UF , 6.3V	
	C5614	FLJ1A106A087	C 10UF , 10V	
	C5615	FLJ1A106A087	C 10UF , 10V	
	C5616	F1G1C104A077	C 0.1UF , 16V	
	C5618	EEEHBOJ221UP	C 220UF , 6.3V	
	C5619	FLJ1A106A087	C 10UF , 10V	
	C5620	FLJ1A106A087	C 10UF , 10V	
	C5621	F1G1C104A077	C 0.1UF , 16V	
	C5622	FLJ1A106A087	C 10UF , 10V	
	C5623	F1G1C104A077	C 0.1UF , 16V	
	C5624	FLJ1A106A087	C 10UF , 10V	
	C5625	F1G1C104A077	C 0.1UF , 16V	
	C5627	EEEHBOJ221UP	C 220UF , 6.3V	
	C5628	FLJ1A106A087	C 10UF , 10V	
	C5629	FLJ1A106A087	C 10UF , 10V	
	C5630	F1G1C104A077	C 0.1UF , 16V	
	C5631	FLJ1A106A087	C 10UF , 10V	
	C5632	F1G1C104A077	C 0.1UF , 16V	
	C5900	FLJ1A106A043	C 10UF , 10V	
	C5901	FLJ1A106A043	C 10UF , 10V	
	C5902	FLJ1A106A043	C 10UF , 10V	
	C5905	F1G1C223A081	C 0.022UF , 16V	
	C5906	F1K1E106A136	C 10UF , 25V	
	C5908	F1G1A333A032	C 0.033UF , 10V	
	C5909	F1G1H1020008	C 1000PF , 50V	
	C5911	FLJ1A106A043	C 10UF , 10V	
	C5912	F1G1E472A086	C 4700PF , 25V	
	C5913	F1G1A473A032	C 0.047UF , 10V	
	C5915	F1G1A473A032	C 0.047UF , 10V	
	C5917	F1G1A473A032	C 0.047UF , 10V	
	C5919	F1G1A473A032	C 0.047UF , 10V	
	C5921	F1H1A105A025	C 1UF , 10V	
	C8001	F1G1C104A077	C 0.1UF , 16V	
	C8002	FLJ1A106A087	C 10UF , 10V	
	C8003	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8004	F1G1C104A077	C 0.1UF , 16V	
	C8005	F1G1C104A077	C 0.1UF , 16V	
	C8006	F1G1C104A077	C 0.1UF , 16V	
	C8007	F1G1C104A077	C 0.1UF , 16V	
	C8008	F1G1C104A077	C 0.1UF , 16V	
	C8009	FLJ1A106A087	C 10UF , 10V	
	C8011	F1G1C104A077	C 0.1UF , 16V	
	C8013	F1G1C104A077	C 0.1UF , 16V	
	C8014	F1G1C104A077	C 0.1UF , 16V	
	C8015	F1G1C104A077	C 0.1UF , 16V	
	C8016	F1G1C104A077	C 0.1UF , 16V	
	C8017	FLJ1A106A087	C 10UF , 10V	
	C8018	F1G1C104A077	C 0.1UF , 16V	
	C8019	F1G1C104A077	C 0.1UF , 16V	
	C8020	F1G1C104A077	C 0.1UF , 16V	
	C8021	F1G1C104A077	C 0.1UF , 16V	
	C8022	FLJ1A106A087	C 10UF , 10V	
	C8023	FLJ1A106A087	C 10UF , 10V	
	C8024	FLJ0G2260001	C 22UF , 4V	
	C8026	F1G1C104A077	C 0.1UF , 16V	
	C8027	F1G1C104A077	C 0.1UF , 16V	
	C8028	F1G1C104A077	C 0.1UF , 16V	
	C8030	F1G1C104A077	C 0.1UF , 16V	
	C8032	F1G1C104A077	C 0.1UF , 16V	
	C8036	F1G1C104A077	C 0.1UF , 16V	
	C8039	F1G1C104A077	C 0.1UF , 16V	
	C8041	F1G1H1020008	C 1000PF , 50V	
	C8042	F1G1C104A077	C 0.1UF , 16V	
	C8043	F1G1C104A077	C 0.1UF , 16V	
	C8044	F1G1C104A077	C 0.1UF , 16V	
	C8045	F1G1C104A077	C 0.1UF , 16V	
	C8047	F1G1C104A077	C 0.1UF , 16V	
	C8048	F1G1C104A077	C 0.1UF , 16V	
	C8049	FLJ1A106A087	C 10UF , 10V	
	C8050	F1G1C104A077	C 0.1UF , 16V	
	C8051	FLJ1A106A087	C 10UF , 10V	
	C8052	F1G1C104A077	C 0.1UF , 16V	
	C8053	F1G1C104A077	C 0.1UF , 16V	
	C8054	F1G1C104A077	C 0.1UF , 16V	
	C8055	F1G1C104A077	C 0.1UF , 16V	
	C8056	F1G1C104A077	C 0.1UF , 16V	
	C8057	F1G1C104A077	C 0.1UF , 16V	
	C8100	F1G1E682A123	C 6800PF , 25V	
	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	
	C8201	F1G1C104A077	C 0.1UF , 16V	
	C8202	F1G1C104A077	C 0.1UF , 16V	
	C8203	F1G1C104A077	C 0.1UF , 16V	
	C8204	F1G1C104A077	C 0.1UF , 16V	
	C8205	FLJ1A106A087	C 10UF , 10V	
	C8206	F1G1C104A077	C 0.1UF , 16V	
	C8208	F1G1C104A077	C 0.1UF , 16V	
	C8210	F1G1C104A077	C 0.1UF , 16V	
	C8213	F1G1C104A077	C 0.1UF , 16V	
	C8214	FLJ1A106A087	C 10UF , 10V	
	C8216	F1G1C104A077	C 0.1UF , 16V	
	C8218	F1G1C104A077	C 0.1UF , 16V	
	C8219	F1G1C104A077	C 0.1UF , 16V	
	C8222	F1G1C104A077	C 0.1UF , 16V	
	C8223	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8224	F1G1C104A077	C 0.1UF , 16V	
	C8225	F1G1C104A077	C 0.1UF , 16V	
	C8226	F1G1C104A077	C 0.1UF , 16V	
	C8227	F1G1C104A077	C 0.1UF , 16V	
	C8300	F1G1H9R0A732	C 9PF , 50V	
	C8301	F1G1H8R0A564	C 8PF , 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	F1J1A106A087	C 10UF , 10V	
	C8604	F1G1C104A077	C 0.1UF , 16V	
	C8605	F1G1C104A077	C 0.1UF , 16V	
	C8606	F1G1H101A565	C 100PF , 50V	
	C8607	F1G1H100A565	C 10PF , 50V	
	C8608	F1G1H100A565	C 10PF , 50V	
	C8609	F1G1C104A077	C 0.1UF , 16V	
	C8610	F1G1C104A077	C 0.1UF , 16V	
	C8611	F1G1C104A077	C 0.1UF , 16V	
	C8612	F1G1C104A077	C 0.1UF , 16V	
	C8613	F1G1C104A077	C 0.1UF , 16V	
	C8614	F1G1C104A077	C 0.1UF , 16V	
	C8615	F1J1A106A087	C 10UF , 10V	
	C8616	F1J1A106A087	C 10UF , 10V	
	C8617	F1G1C1030008	C 0.01UF , 16V	
	C8618	F1J1A106A087	C 10UF , 10V	
	C8619	F1G1C104A077	C 0.1UF , 16V	
	C8620	F1G1C104A077	C 0.1UF , 16V	
	C8621	F1G1H100A565	C 10PF , 50V	
	C8622	F1G1H100A565	C 10PF , 50V	
	C8624	F1G1H100A565	C 10PF , 50V	
	C8625	F1G1H100A565	C 10PF , 50V	
	C8626	F1G1H100A565	C 10PF , 50V	
	C8629	F1G1H390A565	C 39PF , 50V	
	C8630	F1G1H220A565	C 22PF , 50V	
	C8714	F1J1A475A087	C 4.7UF , 10V	
	C8715	F1J1A106A087	C 10UF , 10V	
	C8716	F1G1C104A077	C 0.1UF , 16V	
	C8717	F1G1C104A077	C 0.1UF , 16V	
	C8724	F1J1A475A087	C 4.7UF , 10V	
	C8725	F1J1A475A087	C 4.7UF , 10V	
	C8764	F1J1A475A087	C 4.7UF , 10V	
	C8765	F1J1A475A087	C 4.7UF , 10V	
	C8900	F1G1C104A077	C 0.1UF , 16V	
	C8901	F1G1C104A077	C 0.1UF , 16V	
	C8902	F1G1C104A077	C 0.1UF , 16V	
	C8903	F1G1C104A077	C 0.1UF , 16V	
		DIODES		
	D1006	K7AAAY000011	OPTICAL DIODE	
	D1101	B0JCCD000020	DIODE	
	D2016	EZJZ0V120JA	VARIATOR	
	D2800A	B3AGB0000065	LED	
	D2851	B3EB00000056	LED	
	D2852	B3EB00000056	LED	
	D2853	B3EB00000056	LED	
	D2854	B3EB00000056	LED	
	D4702	DA2J10100L	DIODE	
	D4704	B0JCCD000020	DIODE	
	D4719	DA2J10100L	DIODE	
	D4721	B0JCCD000020	DIODE	
	D4735	DA2J10100L	DIODE	
	D4737	B0JCCD000020	DIODE	
	D4770	DA2J10100L	DIODE	
	D4772	B0JCCD000020	DIODE	
	D4785	B0JCCD000020	DIODE	
	D5172	DZ2J220M0L	DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D5173	DA2J10100L	DIODE	
	D5178	DZ2J068M0L	DIODE	
	D5179	DA2J10100L	DIODE	
	D5180	DZ2J033M0L	DIODE	
	D5183	DZ2J068M0L	DIODE	
	D5184	DA2J10100L	DIODE	
	D5187	DZ2J047M0L	DIODE	
	D5188	DA2J10100L	DIODE	
	D5189	DZ2J068M0L	DIODE	
	D5190	DA2J10100L	DIODE	
	D5207	B0JCCD000020	DIODE	
	D5301	B0JCPE000038	DIODE	
	D5440	B0JCPE000038	DIODE	
	D5900	B0JCMD000066	DIODE	
	D8716	B0ECKM000053	DIODE	
		INTEGRATED CIRCUITS		
	IC2497	C0DBZYY00450	IC	
	IC3001	C1AB00003385	IC	
	IC4700	C1AB00003469	IC	
	IC4900	C1AB00003705	IC	
	IC5000	AN34043A-VF	IC	
	IC5205	C0DBGYY00281	IC	
	IC5300	C0DBAYY01058	IC	
	IC5400	C0DBAYY00915	IC	
	IC5420	C0DBAYY00915	IC	
	IC5440	C0DBAYY01058	IC	
	IC5602	C0DBZYY00368	IC	
	IC5606	C0DBZYY00368	IC	
	IC5900	C0DBAYY00931	IC	
	IC5901	C1ZBZ0004339	IC	
	IC8000	MN2WS0200LD	IC	
	IC8100	C0DBAYY00715	IC	
	IC8200	C3ABUY000005	IC	
	IC8201	C3ABTY000043	IC	
	IC8601	C1CB00003239	IC	
	IC8702	C0CBCAG00039	IC	
	IC8703	C0DBAFF00019	IC	
	IC8706	C0DBAGF00030	IC	
	IC8900	TVRS081AC	ROM IC (C3FBUY000008)	
	IC8901	C3EBGC000056	IC	
	IC8902	C3EBHC000035	IC	
		COILS		
	L1080	J0JHC0000045	COIL	
	L3000	J0JCC0000287	COIL	
	L3001	J0JCC0000287	COIL	
	L3002	J0JCC0000287	COIL	
	L3003	J0JCC0000287	COIL	
	L3004	J0JCC0000287	COIL	
	L3005	J0JCC0000287	COIL	
	L3007	G1C100MA0072	COIL	
	L3102	J0JCC0000287	COIL	
	L3103	J0JCC0000287	COIL	
	L3119	J0JCC0000287	COIL	
	L3120	J0JCC0000287	COIL	
	L3121	J0JCC0000287	COIL	
	L3122	J0JCC0000287	COIL	
	L3123	J0JCC0000287	COIL	
	L4700	J0JYC0000068	COIL	
	L4701	J0JYC0000068	COIL	
	L4702	J0JYC0000068	COIL	
	L4703	J0JYC0000068	COIL	
	L4704	J0JYC0000068	COIL	
	L4705	J0JYC0000068	COIL	
	L4706	J0JYC0000068	COIL	
	L4707	J0JYC0000068	COIL	
	L4708	J0JYC0000068	COIL	
	L4715	J0JYC0000068	COIL	
	L4716	J0JYC0000068	COIL	
	L4717	J0JYC0000068	COIL	
	L4800	G1CR39J00009	COIL	
	L4801	G1CR39J00009	COIL	
	L4802	J0JGC0000020	CHIP BEADS	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L4803	J0JGC0000020	CHIP BEADS	
	L4804	J0JGC0000020	CHIP BEADS	
	L4805	J0JCC00000287	COIL	
	L4900	G1C150MA0426	INDUCTOR	
	L4901	G1C150MA0426	INDUCTOR	
	L4902	G1C150MA0426	INDUCTOR	
	L4903	G1C150MA0426	INDUCTOR	
	L4905	J0JHC0000042	COIL	
	L5300	G1C3R3ZA0240	INDUCTOR	
	L5400	G1C4R5ZA0156	INDUCTOR	
	L5420	G1C4R5ZA0156	INDUCTOR	
	L5440	G1C3R3ZA0240	INDUCTOR	
	L5601	J0JHC0000045	COIL	
	L5602	J0JHC0000045	COIL	
	L5603	J0JHC0000045	COIL	
	L5900	G1C2R2MA0449	INDUCTOR	
	L8001	J0JCC00000287	COIL	
	L8002	J0JHC0000045	COIL	
	L8003	J0JHC0000045	COIL	
	L8004	J0JHC0000045	COIL	
	L8005	J0JKC0000021	BEAD CORE	
	L8006	J0JCC00000287	COIL	
	L8007	J0JCC00000287	COIL	
	L8100	G1C4R7MA0416	INDUCTOR	
	L8102	G1C3R3MA0460	INDUCTOR	
	L8250	J0JHC0000045	COIL	
	L8600	J0JHC0000045	COIL	
	L8603	J0JBC0000115	BEAD CORE	
	L8604	J0JBC0000115	BEAD CORE	
	L8751	J0JHC0000045	COIL	
	L8752	J0JHC0000045	COIL	
		TRANSISTORS		
	Q0900	B1ADCF000194	TRANSISTOR	
	Q2800	B1ABCE000015	TRANSISTOR	
	Q2801	B1ABCE000015	TRANSISTOR	
	Q2802	B1ABCE000015	TRANSISTOR	
	Q3104	B1ABCF000231	TRANSISTOR	
	Q3105	B1ABCF000231	TRANSISTOR	
	Q4512	B1HFCFA00026	TRANSISTOR	
	Q4513	B1ADCE000022	TRANSISTOR	
	Q4700	B1ABCF000231	TRANSISTOR	
	Q4702	B1ABCF000231	TRANSISTOR	
	Q4704	B1ABCF000231	TRANSISTOR	
	Q4709	B1ABCF000231	TRANSISTOR	
	Q4971	B1Aafb000004	TRANSISTOR	
	Q4972	B1Aafb000004	TRANSISTOR	
	Q4974	B1ABBE000003	TRANSISTOR	
	Q8100	FK8V03050L	TRANSISTOR	
	Q8101	FK8V03050L	TRANSISTOR	
	Q8102	B1MBEDA00027	TRANSISTOR	
		RESISTORS		
	R0951	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R0952	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R1007	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1008	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1009	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1010	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1012	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1013	D0GAR00J0005	C 00HM ,J, 1/16W	
	R1101	D0GA331JA023	C 330OHM ,J, 1/16W	
	R1102	D1BB7151A073	7.15KOHM ,1/10W	
	R1105	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R1106	D0GA182JA023	C 1.8KOHM ,J, 1/16W	
	R1108	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R1111	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R1300	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1301	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1302	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1304	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2001	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2002	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2008	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2014	D0GA101JA023	C 100OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2015	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2016	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2017	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2018	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2019	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2033	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2034	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2035	D0GDR00J0004	C 00HM ,J, 1/16W	
	R2045	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2046	D0GDR00J0004	C 00HM ,J, 1/16W	
	R2047	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2048	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2052	D0GAR00J0005	C 00HM ,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	
	R2826	D0GAR00J0005	C 00HM ,J, 1/16W	
	R2851	D0GAR00J0005	C 00HM ,J, 1/16W	
	R3013	D0GA221JA023	C 220OHM ,J, 1/16W	
	R3030	D0GA101JA023	C 100OHM ,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	
	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	
	R3127	D0GA680JA023	C 68OHM ,J, 1/16W	
	R3148	D0GAR00J0005	C 00HM ,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	
	R3361	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3362	D0GAR00J0005	C 00HM ,J, 1/16W	
	R3900	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R3901	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4081	D0GA101JA023	C 100OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4082	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4107	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4108	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4548	D0GA220JA023	C 220OHM ,J, 1/16W	
	R4549	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4550	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4551	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4552	D0GA560JA023	C 560OHM ,J, 1/16W	
	R4553	D0GA103JA023	C 10KOHM ,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	
	R4702	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4703	D0GA330JA023	330OHM ,J, 1/8W	
	R4708	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4709	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4710	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4711	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4712	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4715	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4716	D0GA330JA023	330OHM ,J, 1/8W	
	R4721	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4722	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4723	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4724	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4725	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4728	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4729	D0GA330JA023	330OHM ,J, 1/8W	
	R4734	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4735	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4736	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4737	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4738	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4739	D0GA220JA023	C 220OHM ,J, 1/16W	
	R4744	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4745	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4746	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4747	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4748	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4749	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4750	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4751	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4763	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4764	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4765	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4766	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4767	D0GA392JA023	C 3.9KOHM ,J, 1/8W	
	R4770	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4771	D0GA152JA023	C 1.5KOHM ,J, 1/8W	
	R4772	D0GA152JA023	C 1.5KOHM ,J, 1/8W	
	R4774	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4775	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4776	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4777	D0GA680JA023	C 680OHM ,J, 1/16W	
	R4780	D0GA121JA023	C 120OHM ,J, 1/8W	
	R4788	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4789	D0GA330JA023	330OHM ,J, 1/8W	
	R4794	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4795	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4796	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4797	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4798	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4799	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R4800	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4803	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4910	D0GA100JA023	C 100OHM ,J, 1/16W	
	R4911	D0GA100JA023	C 100OHM ,J, 1/16W	
	R4912	D0GA100JA023	C 100OHM ,J, 1/16W	
	R4913	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4914	EXB28V220JX	220OHM ,J, 1/2W	
	R4915	D0GF5R6JA020	C 5.60HM ,J, 1/16W	
	R4916	D0GF5R6JA020	C 5.60HM ,J, 1/16W	

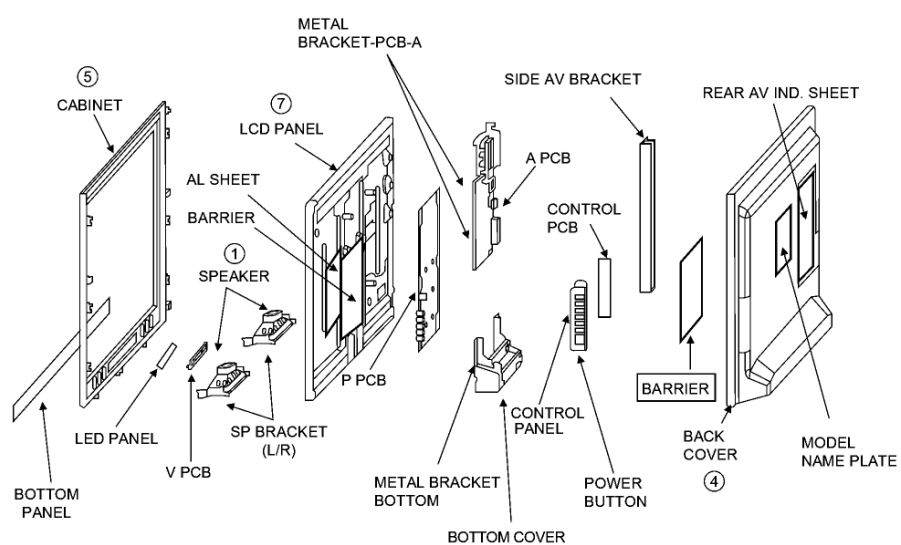
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4917	D0GF5R6JA020	C 5.60HM ,J, 1/16W	
	R4918	D0GF5R6JA020	C 5.60HM ,J, 1/16W	
	R4921	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4970	D1BB1403A073	140KOHM ,J, 1/16W	
	R4971	D1BB1403A073	140KOHM ,J, 1/16W	
	R4972	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4973	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4974	D0GF122JA048	C 1.2KOHM ,J, 1/16W	
	R4978	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4979	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4984	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4985	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4986	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4987	D0GF122JA048	C 1.2KOHM ,J, 1/16W	
	R5002	D0GA683JA023	C 68KOHM ,J, 1/16W	
	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	
	R5100	D0GA101JA023	C 100OHM ,J, 1/16W	
	R5104	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5152	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R5174	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5175	D0GA680JA023	C 680OHM ,J, 1/16W	
	R5179	D0GA153JA023	C 15KOHM ,J, 1/10W	
	R5180	D0GA683JA023	C 68KOHM ,J, 1/16W	
	R5181	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5182	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R5300	D0GD4R7JA059	C 4.7OHM ,J, 1/8W	
	R5302	D1BB1102A055	C 11KOHM , 1/16W	
	R5303	D1BB8200A055	820OHM , 1/16W	
	R5304	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5306	D0GB472JA065	C 4.7KOHM ,J, 1/16W	
	R5400	D0GA390JA023	330OHM ,J, 1/8W	
	R5401	D1BB4301A055	C 4.3KOHM , 1/8W	
	R5402	D1BB6041A055	C 6.04KOHM , 1/8W	
	R5403	D1BB2402A055	C 24KOHM , 1/16W	
	R5420	D0GA390JA023	330OHM ,J, 1/8W	
	R5421	D1BB5601A055	C 5.6KOHM , 1/16W	
	R5422	D1BB3001A055	C 3KOHM , 1/8W	
	R5423	D1BB2002A055	C 20KOHM , 1/8W	
	R5441	D0GB332JA065	C 3.3KOHM ,J, 1/8W	
	R5442	D1BB7870A055	787OHM , 1/8W	
	R5443	D1BB4021A055	C 4.02KOHM , 1/8W	
	R5444	D0GD4R7JA059	C 4.7OHM ,J, 1/8W	
	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	
	R5612	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5613	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5900	D0GB390JA065	390OHM ,J, 1/8W	
	R5901	D1BB1002A055	C 10KOHM , 1/16W	
	R5902	D1BB5362A055	C 53.6KOHM , 1/16W	
	R5904	D1BB3002A055	C 30KOHM , 1/8W	
	R5906	D1BA4642A014	C 46.4KOHM , 1/16W	
	R5909	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R5910	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R5911	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R5912	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R5913	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R5918	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R6943	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R6951	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R6953	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8008	D0GA331JA023	C 330OHM ,J, 1/16W	
	R8100	D1BB1271A087	C 1.27OHM , 1/8W	
	R8102	D1BB2101A087	C 2.1KOHM , 1/8W	
	R8104	D1BB8200A087	C 820OHM , 1/8W	
	R8106	D1BB2001A087	C 2KOHM , 1/8W	
	R8108	D0GB100JA065	C 10OHM ,J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8110	D0GB100JA065	C 10OHM ,J, 1/10W	
	R8114	D0GA303JA023	C 30KOHM ,J, 1/8W	
	R8118	D0GA183JA023	C 18KOHM ,J, 1/16W	
	R8200	D1BA2400A014	C 240OHM , 1/8W	
	R8201	D1BA1001A014	C 1KOHM , 1/8W	
	R8202	D1BA1001A014	C 1KOHM , 1/8W	
	R8203	D1BA1001A014	C 1KOHM , 1/8W	
	R8204	D1BA1001A014	C 1KOHM , 1/8W	
	R8205	D1BA1001A014	C 1KOHM , 1/8W	
	R8206	D1BA1001A014	C 1KOHM , 1/8W	
	R8207	D1BA1001A014	C 1KOHM , 1/8W	
	R8208	D1BA1001A014	C 1KOHM , 1/8W	
	R8209	D0GA111JA023	110OHM ,J, 1/8W	
	R8210	D0GA111JA023	110OHM ,J, 1/8W	
	R8211	D1BA2400A014	C 240OHM , 1/8W	
	R8212	D1BA2400A014	C 240OHM , 1/8W	
	R8213	D0GA103JA015	C 10KOHM ,J, 1/8W	
	R8214	D0GA103JA015	C 10KOHM ,J, 1/8W	
	R8215	D1BA2400A014	C 240OHM , 1/8W	
	R8216	D1BA1001A014	C 1KOHM , 1/8W	
	R8217	D1BA1001A014	C 1KOHM , 1/8W	
	R8218	EXB28V220JX	22OHM , J, 1/8W	
	R8219	EXB28V220JX	22OHM , J, 1/8W	
	R8220	EXB28V220JX	22OHM , J, 1/8W	
	R8221	EXB28V220JX	22OHM , J, 1/8W	
	R8222	EXB28V220JX	22OHM , J, 1/8W	
	R8223	EXB28V220JX	22OHM , J, 1/8W	
	R8224	EXB28V220JX	22OHM , J, 1/8W	
	R8225	EXB28V220JX	22OHM , J, 1/8W	
	R8226	EXB28V220JX	22OHM , J, 1/8W	
	R8227	EXB28V220JX	22OHM , J, 1/8W	
	R8228	EXB28V220JX	22OHM , J, 1/8W	
	R8229	EXB28V220JX	22OHM , J, 1/8W	
	R8230	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8231	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8232	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8265	EXB2HVR000V	0OHM , J , 1/8W	
	R8268	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8269	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8270	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8271	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8272	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8273	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8274	EXB2HVR000V	0OHM , J , 1/8W	
	R8301	D0GA471JA023	C 470OHM ,J, 1/16W	
	R8302	D0GA360JA023	C 360OHM ,J, 1/16W	
	R8303	D0GA360JA023	C 360OHM ,J, 1/16W	
	R8304	D1BA6201A014	C 6.2KOHM ,J, 1/16W	
	R8305	D1BA6201A014	C 6.2KOHM ,J, 1/16W	
	R8307	D1BA6201A014	C 6.2KOHM ,J, 1/16W	
	R8412	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8413	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8414	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8418	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8441	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8606	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8607	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8608	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8609	D1BA6491A023	C 6.49KOHM ,J, 1/16W	
	R8610	D0GA221JA023	C 220OHM ,J, 1/16W	
	R8611	D1BA49R9A014	C 49.9OHM , 1/16W	
	R8612	D1BA49R9A014	C 49.9OHM , 1/16W	
	R8613	D1BA49R9A014	C 49.9OHM , 1/16W	
	R8614	D1BA49R9A014	C 49.9OHM , 1/16W	
	R8615	D0GA105JA023	C 1MOHM ,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	D0GA820JA023	C 82OHM ,J, 1/16W	
	R8630	D1HG1038A002	F 10KOHM , 1/16W	
	R8634	EXB28V560JX	C 56OHM ,J, 1/16W	

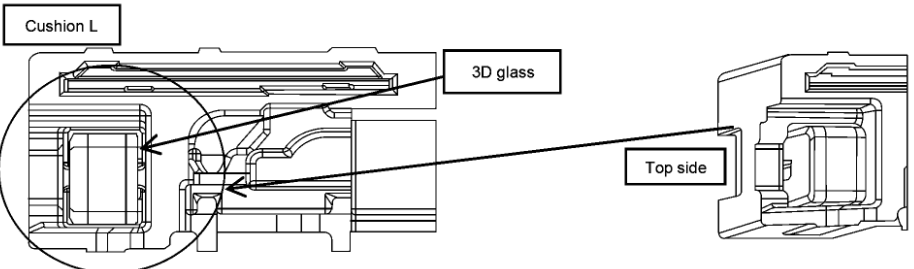
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8636	D0GA220JA023	C 22OHM ,J, 1/16W	
	R8641	J0JBC0000115	BEAD CORE	
	R8645	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8646	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8648	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R8649	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8650	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8651	D0GA101JA023	C 100OHM ,J, 1/16W	
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	R8653	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8654	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8655	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8656	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R8657	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8658	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8659	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8660	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8661	D0GA101JA023	C 100OHM ,J, 1/16W	
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	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	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8670	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8671	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8672	D0GA560JA023	C 56OHM ,J, 1/16W	
	R8755	D0GA104JA023	C 100OHM ,J, 1/16W	
	R8811	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8816	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8818	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8819	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8821	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8824	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8830	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8831	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8835	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8849	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8852	D0GA243JA023	C 24KOHM ,J, 1/16W	
	R8856	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8909	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R8910	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8914	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8964	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R900	D0GA220JA023	C 22OHM ,J, 1/16W	
	R901	D0GA220JA023	C 22OHM ,J, 1/16W	
	R904	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R905	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R906	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R907	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R908	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R909	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R910	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R911	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R912	D0GA272JA023	C 2.7KOHM ,J, 1/8W	
	R913	EXB28V332JX	3.3KOHM ,J, 1/8W	
	R916	D0GA220JA023	C 22OHM ,J, 1/16W	
	R917	D0GA220JA023	C 22OHM ,J, 1/16W	
	R918	D0GA220JA023	C 22OHM ,J, 1/16W	
	R919	D0GA220JA023	C 22OHM ,J, 1/16W	
	R920	D0GA220JA023	C 22OHM ,J, 1/16W	
	R921	D0GA220JA023	C 22OHM ,J, 1/16W	
	R932	D0GA220JA023	C 22OHM ,J, 1/16W	
	R933	D0GA220JA023	C 22OHM ,J, 1/16W	
	R934	D0GA220JA023	C 22OHM ,J, 1/16W	
	R935	D0GA220JA023	C 22OHM ,J, 1/16W	
	R9901	D0GAR00J0005	C 0OHM ,J, 1/10W	
		OTHERS		
	A02	K1KY15BA0324	CONNECTOR	
	A10	K1KY10AA0719	CONNECTOR	
	A12	K1KA04BA0055	CONNECTOR	
	A15	K1MY51B00004	CONNECTOR	
	A16	K1KY08AA0719	CONNECTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	A30	K1KY09AA0719	CONNECTOR	
	CN0100	K1KA14A00248	CONNECTOR	
	FL4000	EXC28CE201U	CHOKE COIL	
	FL4001	EXC28CE201U	CHOKE COIL	
	FL4002	EXC28CE201U	CHOKE COIL	
	FL4003	EXC28CE201U	CHOKE COIL	
	FL4004	EXC28CE201U	CHOKE COIL	
	FL4005	EXC28CE201U	CHOKE COIL	
	FL5600	EXC24CE900U	NOISE FILTER	
	FL5601	EXC24CE900U	NOISE FILTER	
	FL5602	EXC24CE900U	NOISE FILTER	
	JK1005	K1FY315A0009	TERMINAL	
	JK1020	K1FY119D0015	CONNECTOR	
	JK1021	K1FY119D0015	CONNECTOR	
	JK1022	K1FY119D0015	CONNECTOR	
	JK1030	K1FY104A0020	TERMINAL	
	JK1031	K1FY104A0020	TERMINAL	
	JK1040	K2LC1YYA0016	TERMINAL	
	JK1051	K1U410B00002	TERMINAL	
	JK1061	K1FY119E0026	CONNECTOR	
	JK1080	K1NA09E00121	CONNECTOR	
	JK1090	K1FY104E0009	USB CONNECTOR	
	JK3000	K1U916A00002	TERMINAL	
	JS0053	D0GAR00J0005	CHIP RESISTOR	
	JS0055	D0GAR00J0005	CHIP RESISTOR	
	KA10	K1KA07B00135	CONNECTOR	
⚠	PA5300	K5H5022A0031	FUSE	
⚠	PA5440	K5H5022A0031	FUSE	
⚠	PA5900	K5H1022A0031	FUSE	
	RM2800	PNJ4815M01TV	REMOCON SENSOR	
	S10	K1KA03BA0061	CONNECTOR	
	SN2800	B3JB00000078	PHOTO DETECTOR	
⚠	SW2890	K0F126A00003	SWITCH	
⚠	TU4801	ENG57302D5F	TUNER	
	V30	K1KA08A00506	CONNECTOR	
	X8300	H0J245500110	CRYSTAL RESONATOR	
	X8600	H0J250500109	CRYSTAL RESONATOR	

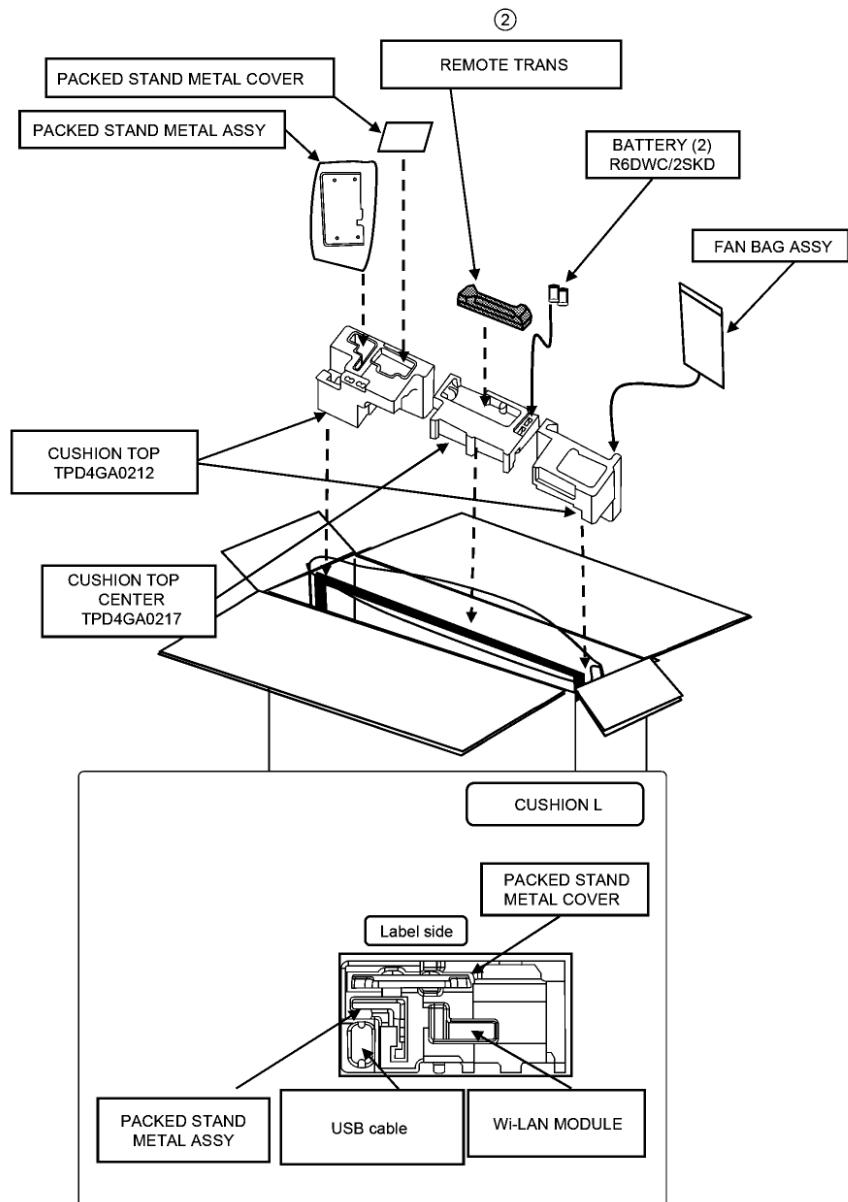
Model No. : TH-L32DT30R Parts Location



Model No. : TH-L32DT30R Packing Exploded View 1



Model No. : TH-L32DT30R Packing Exploded View 2



Model No. : TH-L32DT30R Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K2CQ2YY00087	AC CORD		
	1	L0AZ14C00005	SPEAKER UNIT LEFT		
	1	L0AZ14C00006	SPEAKER UNIT RIGHT		
	2	N2QAYB000585	REMOTE TRANSFORMER		
	3	TBL5ZX0104	PEDESTAL STAND ASSY		
		TBL5ZX0160	STAND ACCESSORY ASSY		
		TBM4GC704	MODEL NAME PLATE		
		TBX4GA02801	CONTROL BUTTON		
		TBX4GA03001	POWER BUTTON		
		THE4GJ001J	SCREW		
		THEJ036J	SCREW		
		THEJ0389	SCREW		
		TKK4GC5031	LED PANEL		
		TKP4GA07001A	SIDE AV BRACKET		
		TKP4GA07201	CONTROL PANEL		
		TKX4GA06401	SPEAKER BRACKET		
		TPD4GA0212	TOP CUSHION		
		TPD4GA0214	BOTTOM CUSHION		
		TPD4GA0217	TOP CENTRE CUSHION		
		TPD4GA0219	BOTTOM CENTRE CUSHION		
		TPE4GH014-1	SET COVER		
		TQZ4GB392	FAN BAG ASSY		
		TSXM398	LVDS CABLE		
	4	TTU4GA0616	BACK COVER ASSY		
	5	TXFKR5Z0022A	CABINET ASSY		
	6	TXFPC01MHUR	PACKING CASE ASSY		
	7	VVX32F105B00	LCD PANEL		
		XSB3+5FJK	SCREW		
		XSS5+15FNK	SCREW		
		XTB4+15JFJK	SCREW		
		XTV3+10JFJK	SCREW		
		XTW3+12TFJ	SCREW		
		XYN4+F30FJK	SCREW		
		XYN4+F8FJ	SCREW		
Electrical Replacement Part List					
	RTL	TZT/A1MHUR	A PRINT ASSY		
	RTL	TNPA5378AB	KA PRINT		
	RTL	TNPA5394AB	S BOARD		
	RTL	TNPA5414AA	V BOARD		
	RTL	N0AE3GJ00006	P BOARD		