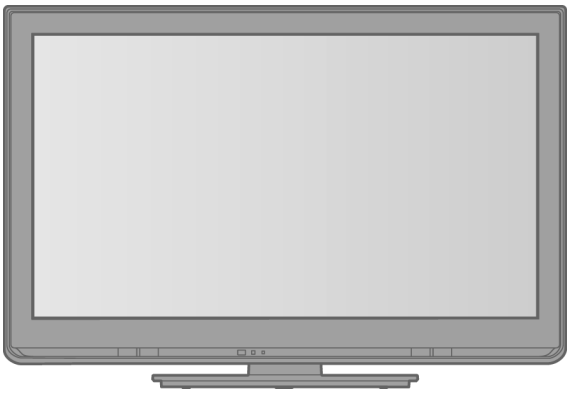
ORDER NO. MTV1101085CE

Service Manual

LCD TV



Model No. TH-L32C30R

Chassis: KM10

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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Panasonic®

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 0.15μF 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.

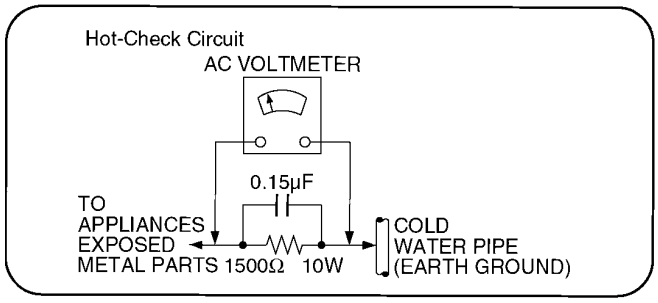


Figure 1

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)

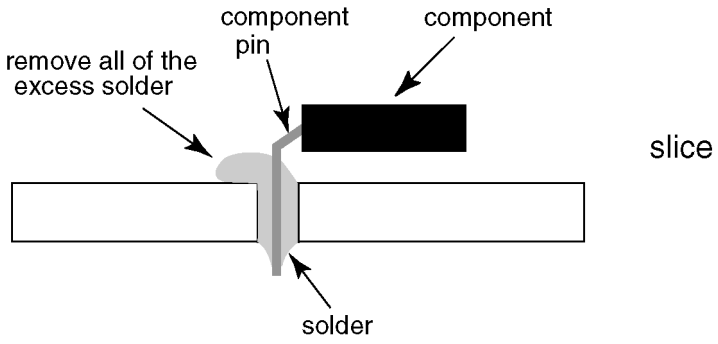
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although 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.

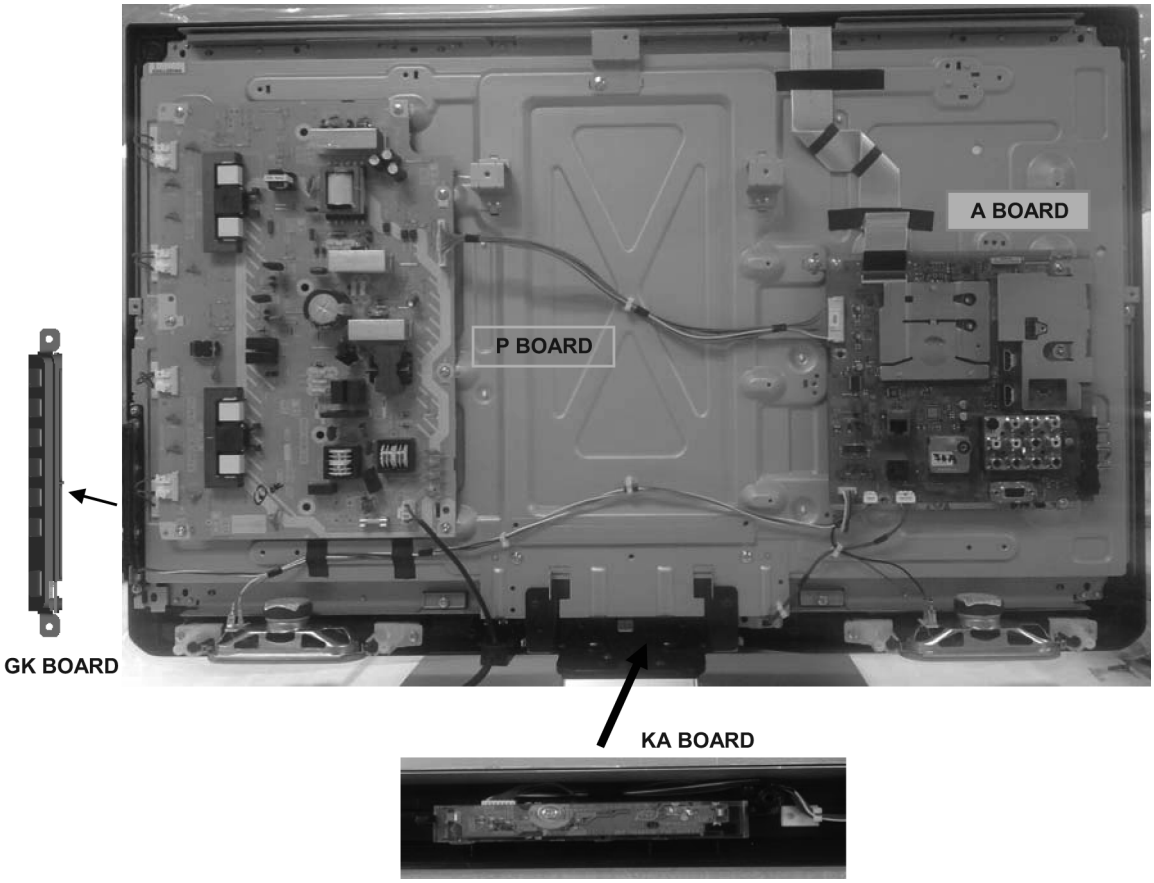
Caution

- 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 and Inverter	Repairable
KA BOARD	Remote, LED, Luminunce Sensor	Repairable
GK BOARD	Power Switch, Keyscan	Repairable

4 Specifications

Power Source		AC 220 - 240 V, 50 / 60 Hz	
Power Consumption			
Power Rating		98 W	
Standby Condition		0.25 W	
Display panel			
Aspect Ratio		16:9	
Visible screen size		80 cm (diagonal) 698 mm (W) × 393 mm (H)	
Number of pixels		1,049,088 (1,366 (W) × 768 (H))	
Sound			
Speaker		(115 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	Reception of broadcast transmission and playback from video cassette tape recorders.
	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)	
	8 NTSC 4.43 / 5.5 MHz	Playback from special VCR's or DVD.
	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	
	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	

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 - 3 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) HD / VD: TTL LEVEL 2.0-5.0 V [p-p] (high impedance)
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic	
	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)		779 mm × 531 mm × 207 mm (With Pedestal) 779 mm × 497 mm × 84 mm (TV only)	
Mass		10.0 kg Net (With Pedestal) 9.0 kg Net (TV only)	

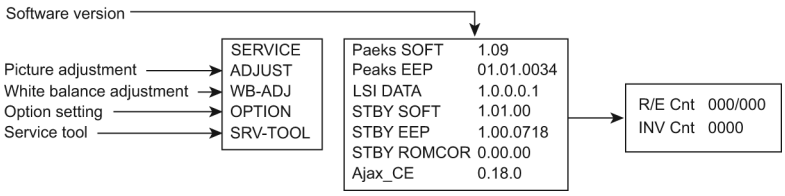
Note

• 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

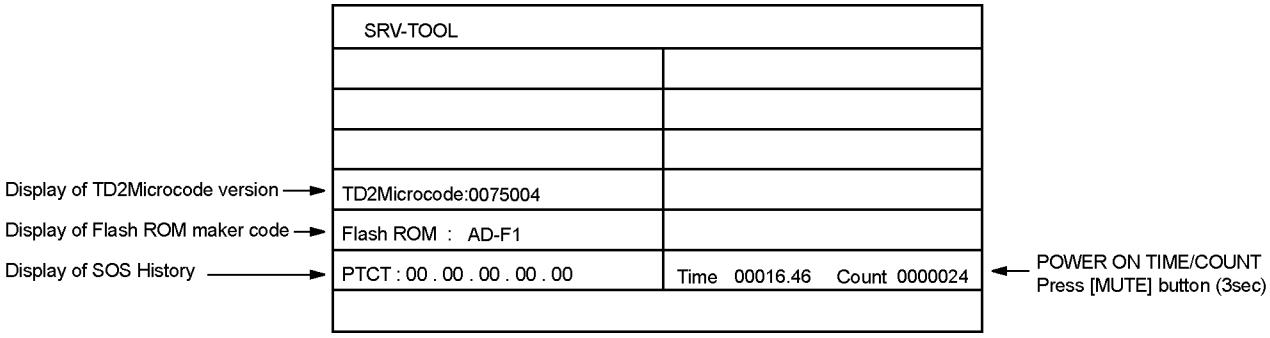
5.1.2. How to exit

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.



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.

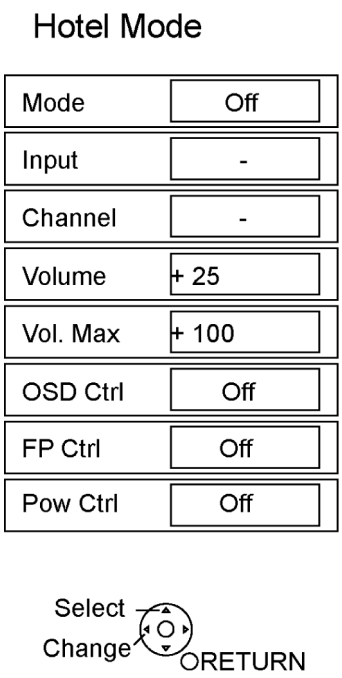
5.2.6. Hotel Mode Adjustment

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.



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

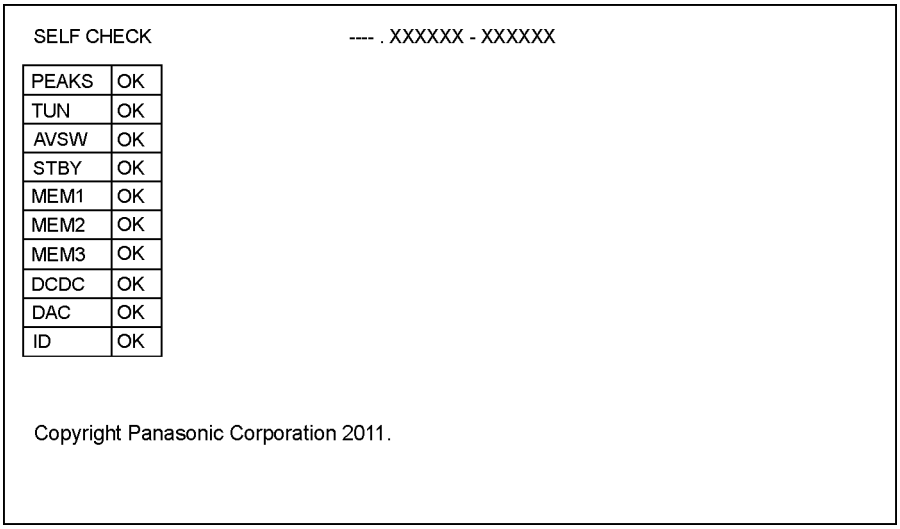
6.1.1. How to access

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



6.2. Power LED Blinking timing chart

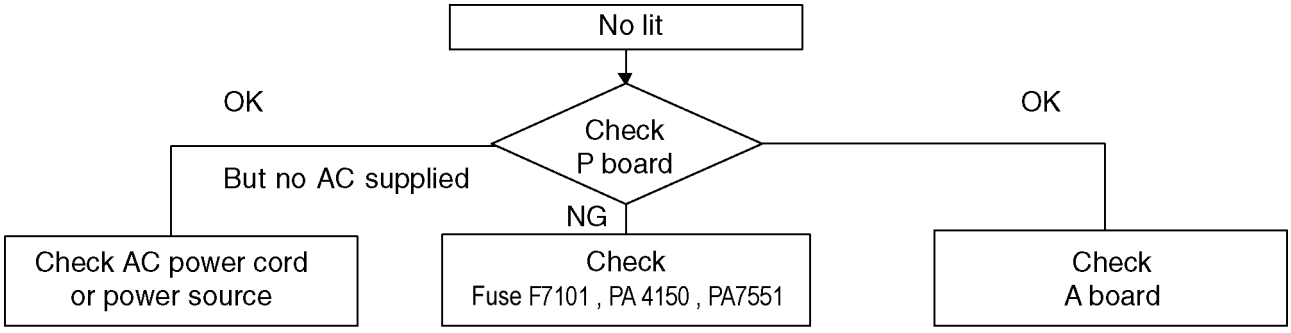
1. Subject
   Information of LED Flashing timing chart.
2. Contents
   When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the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

LCD		Remark	PCB NAME
Times	SOS		
1	BackLight_SOS		A BOARD
2	FAN_SOS	Peaks	
3	SOS (Tuner_SOS)	SUB3.3V/ panel_15V	
4	SUB12V_SENSE_SOS		
7	SUB3.3V_SENSE_SOS		
9	SOUND_SOS		
10	ZWEI2_SOS	detect of IIC	
12	BackEnd(sLD)_SOS		
13	EMERGENCY_SOS	communication error	
14	IROM_SOS	Error of STM micon	

6.3. No Power

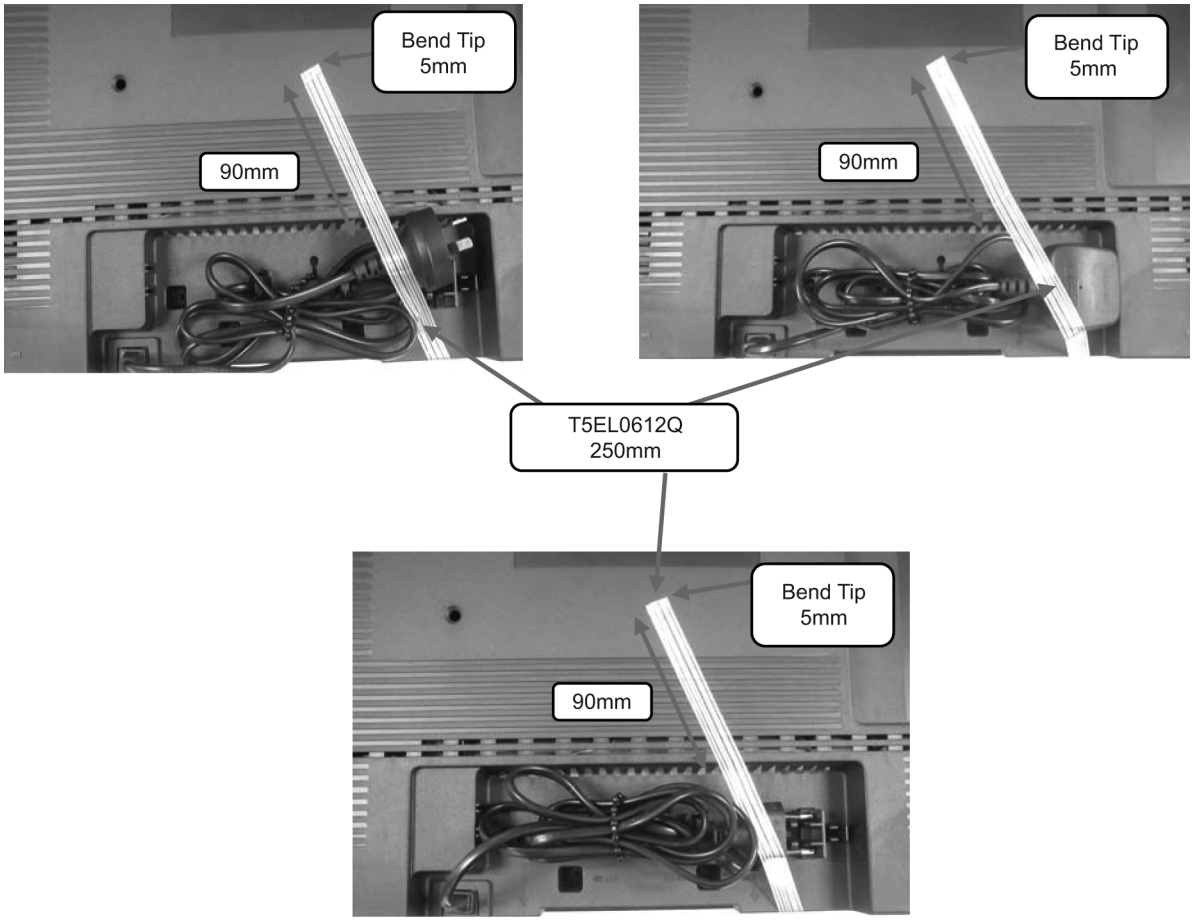
First check point
There are following 2 states of No Power indication by power LED.

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



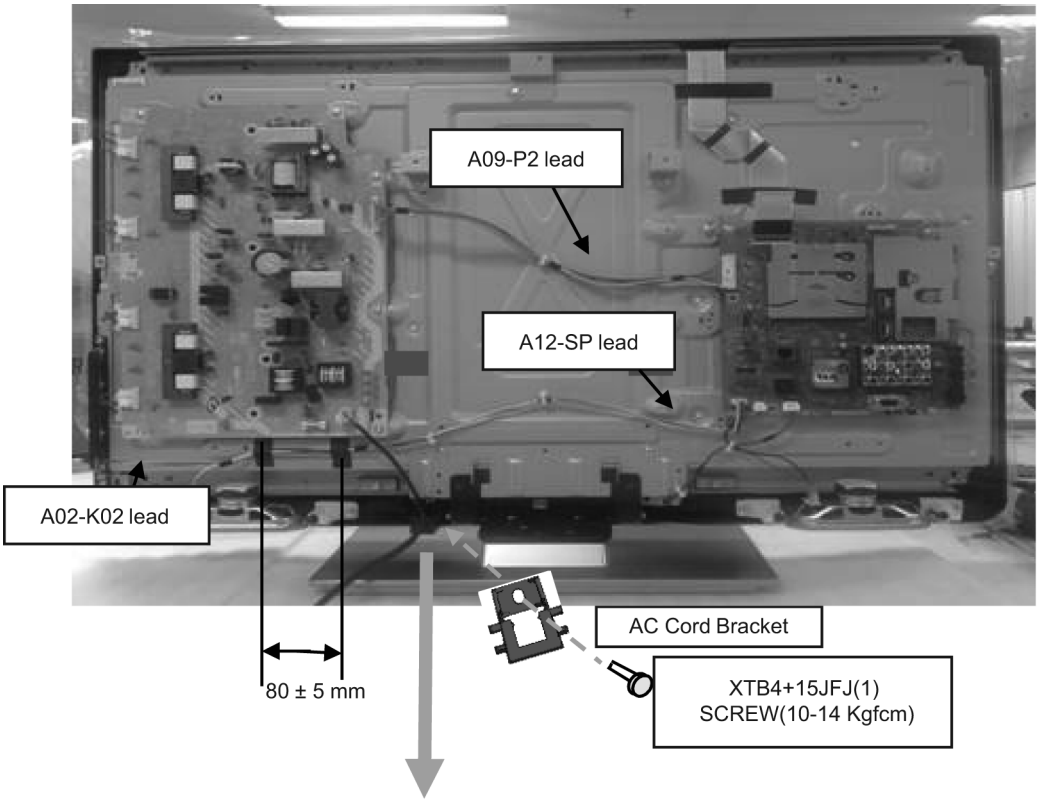
7 Disassembly and Assembly Instructions

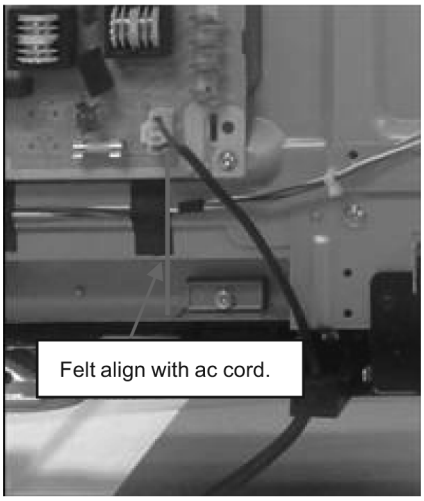
7.1. AC Cord Dressing

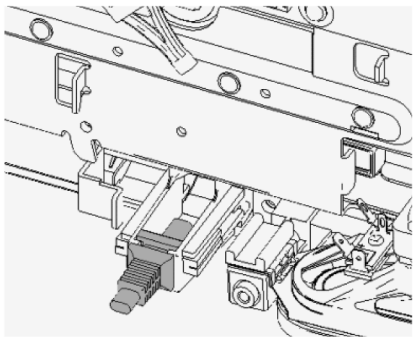


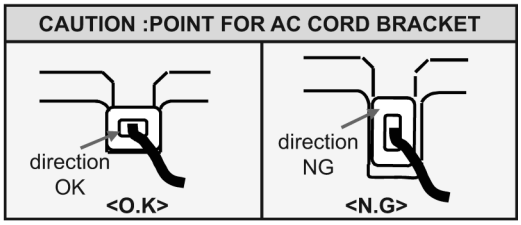
7.2. AC Cord Installation

1. Put on the AC CORD BRACKET on the CABINET.
2. Fix the AC CORD BRACKET with SCREW.
3. Insert AC CORD bushing into the AC CORD BRACKET.
4. AC CORD is pushed into the bottom of the bracket.





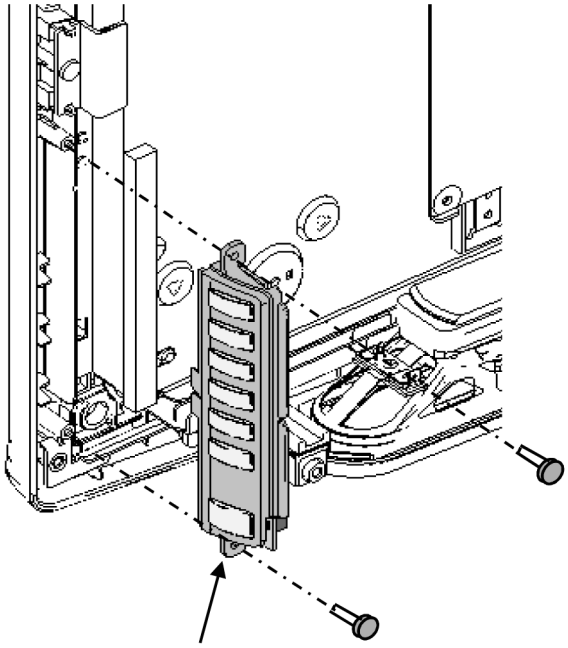




7.3. Control Panel Assembly

Fix GK print_Power button_control panel button and control panel bracket together.

1) Wire connecting. (K1)
2) Put CONTROL PANEL ASSY on the CABINET.
3) Fix the CONTROL PANEL with SCREWS.

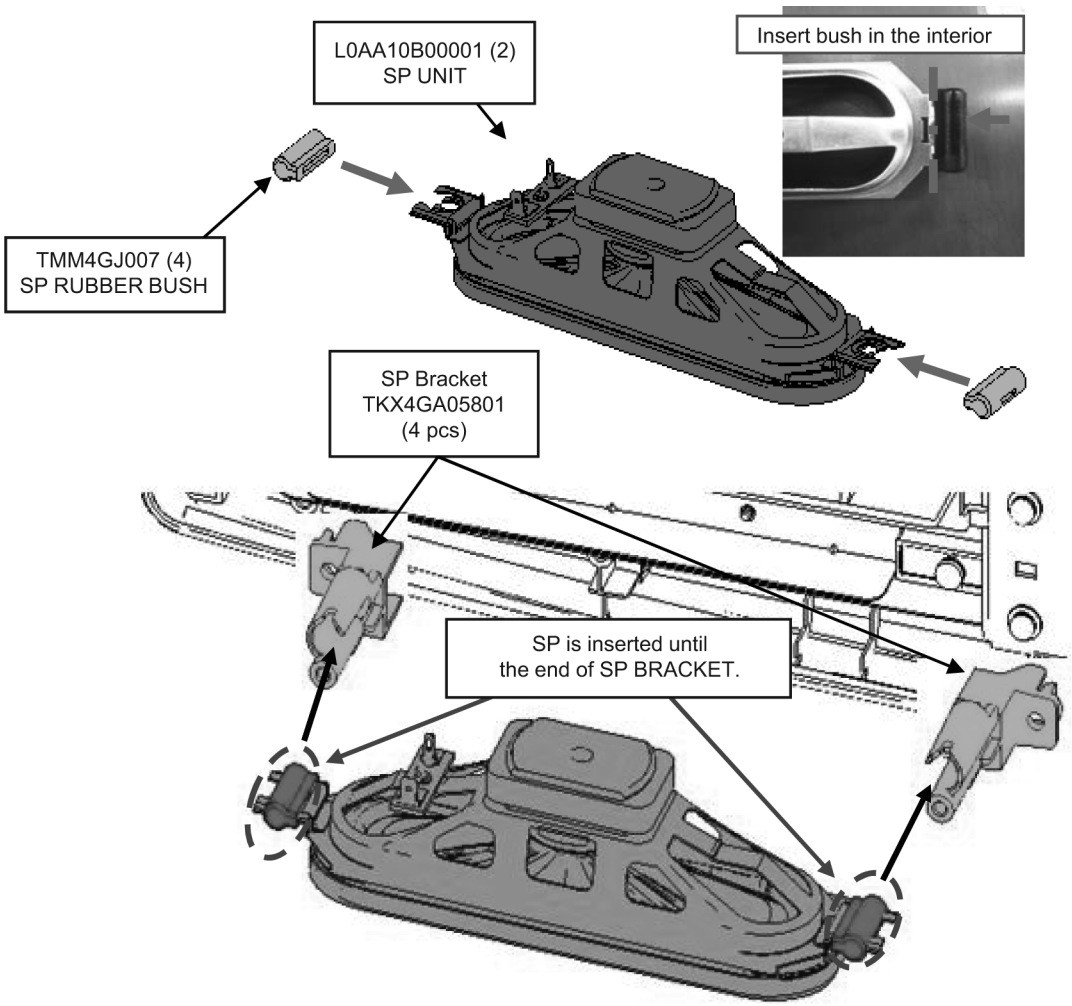


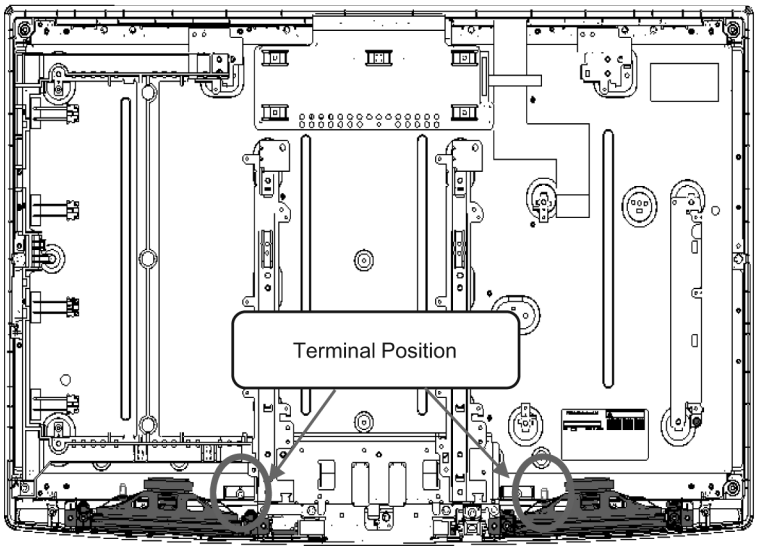
CONTROL PANEL

= SCREW - XTW3+8SFJ (2)【40±10 N•cm】(4+1Kgfcm)

7.4. Speaker Assembly

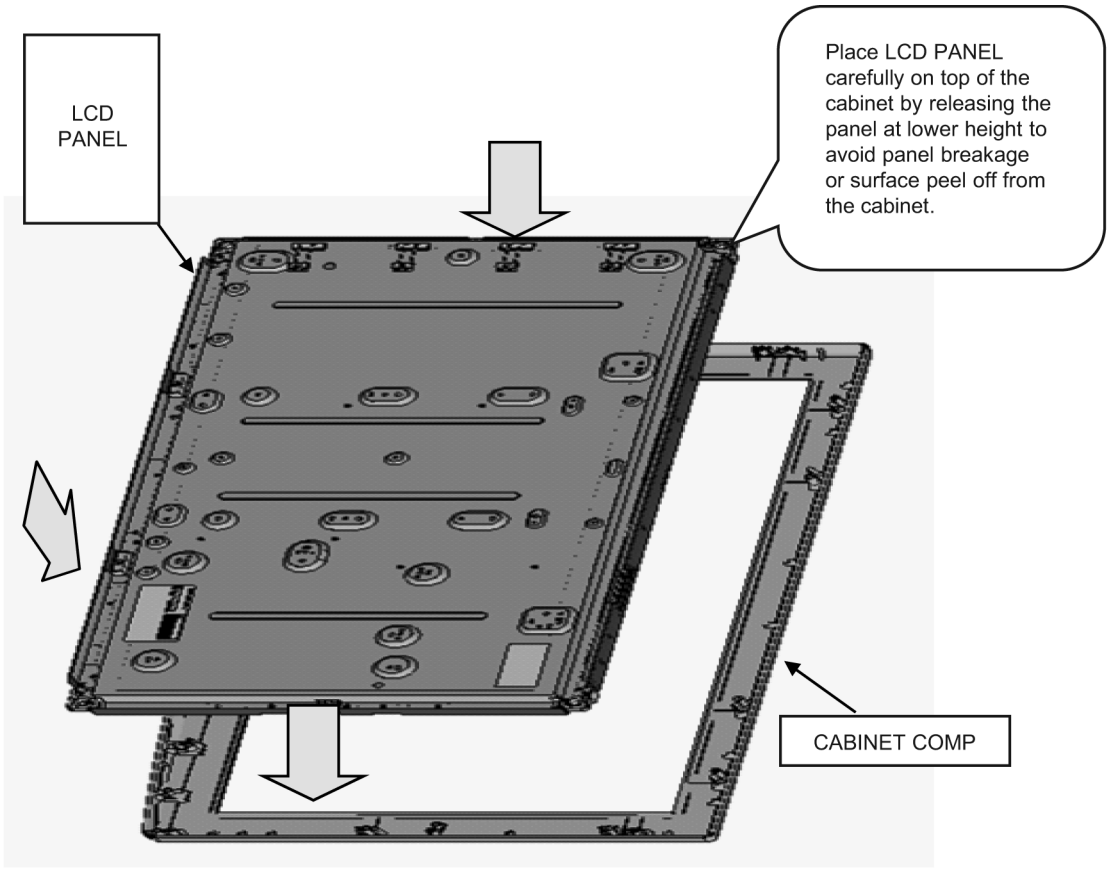
1. Fix SPONGE at SP UNIT.
2. Fix SP RUBBER BUSH at speaker unit.
3. Insert speaker to SP BRACKET.
4. Set speaker terminal direction follow spec.

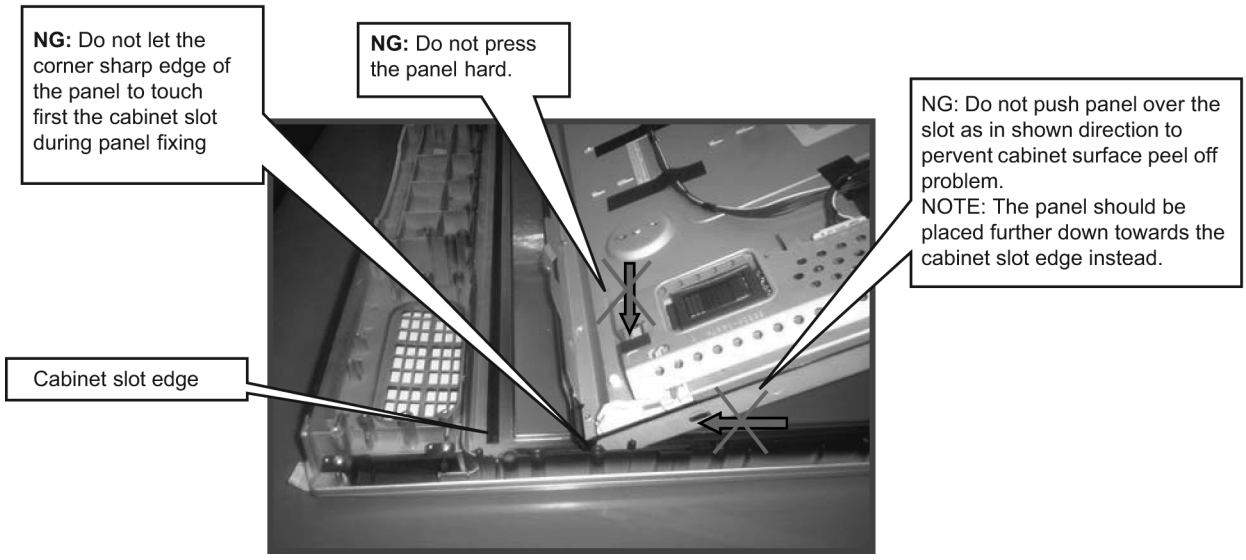




7.5. LCD Panel Fixing & Handling Method

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



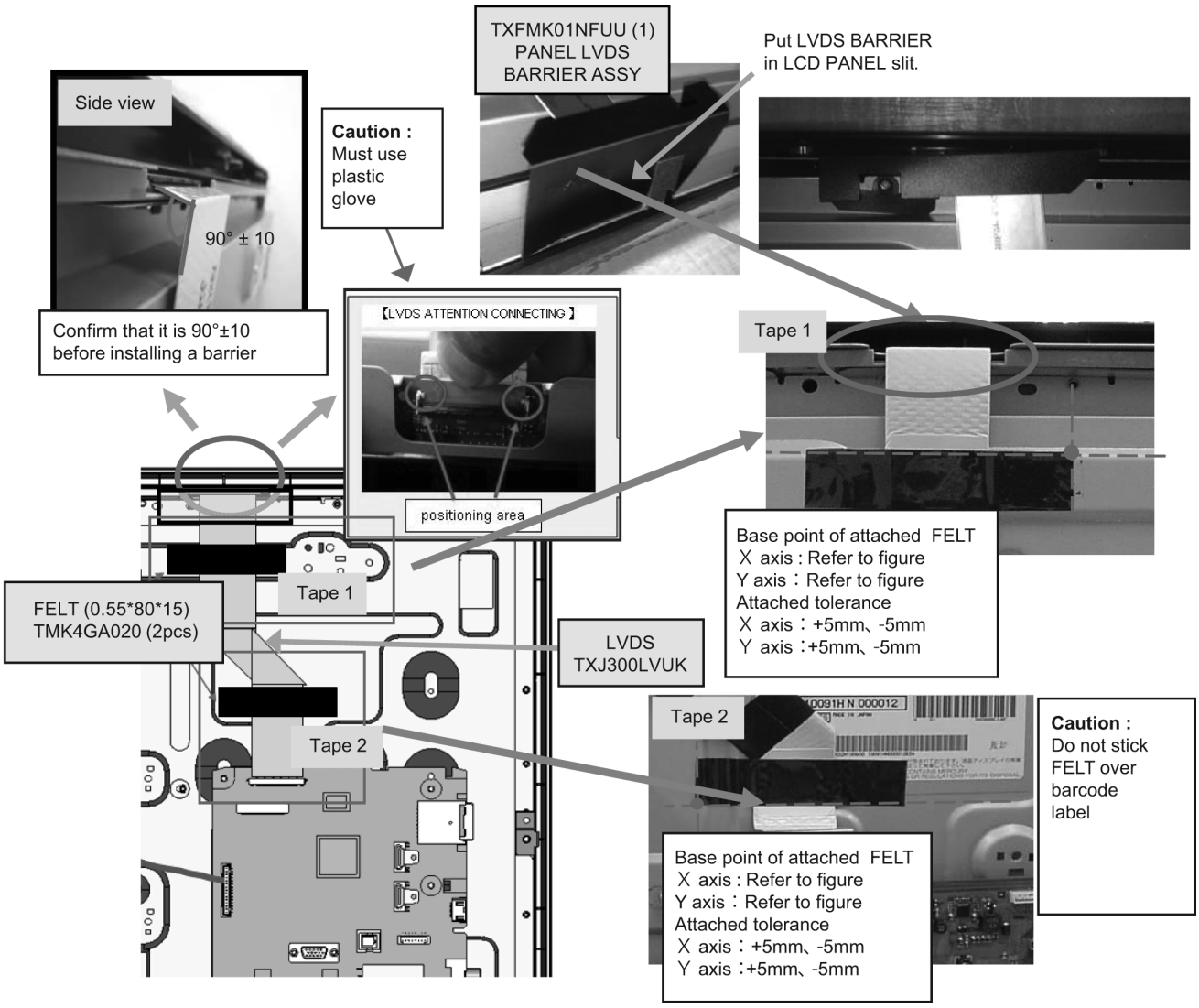


Other general precautions

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

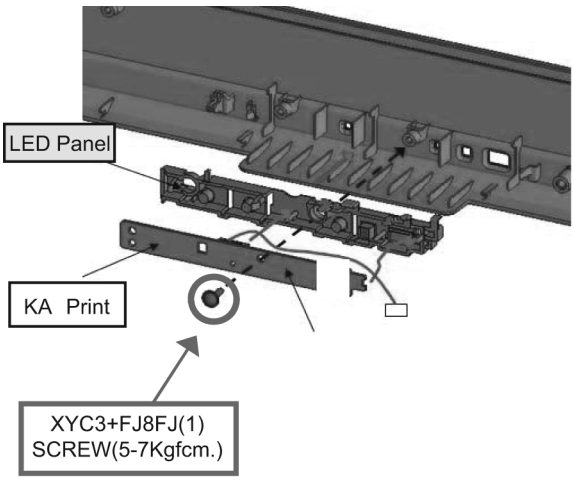
7.6. LCD Panel Assembly

1. Put LVDS HARDNESS to LCD PANEL.
2. Put PET/AL-TAPE on LCD PANEL.

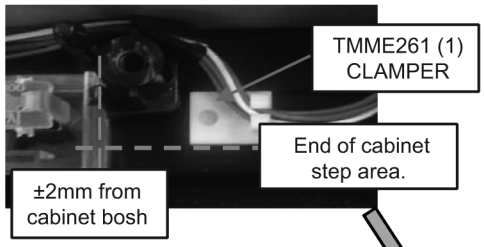


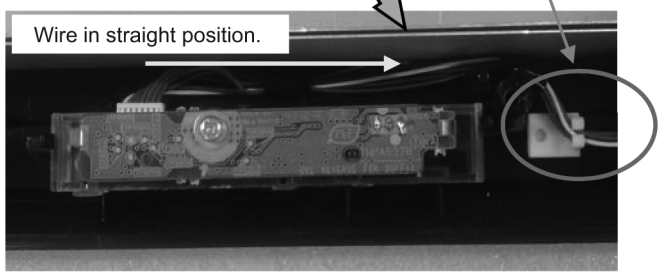
7.7. LED Panel and Bracket Assembly

1. Fixing Led panel at cabinet and fix screw.
2. Stick clamper at cabinet.

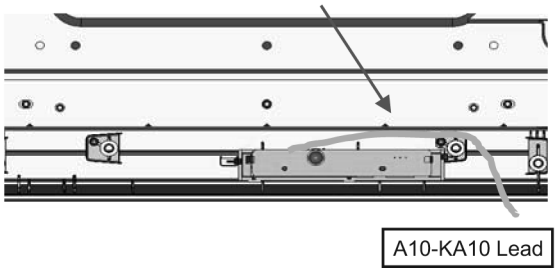


Caution point:
Make sure insert **panel first** before clamper sticking at cabinet and make sure LED wire not stuck to the panel



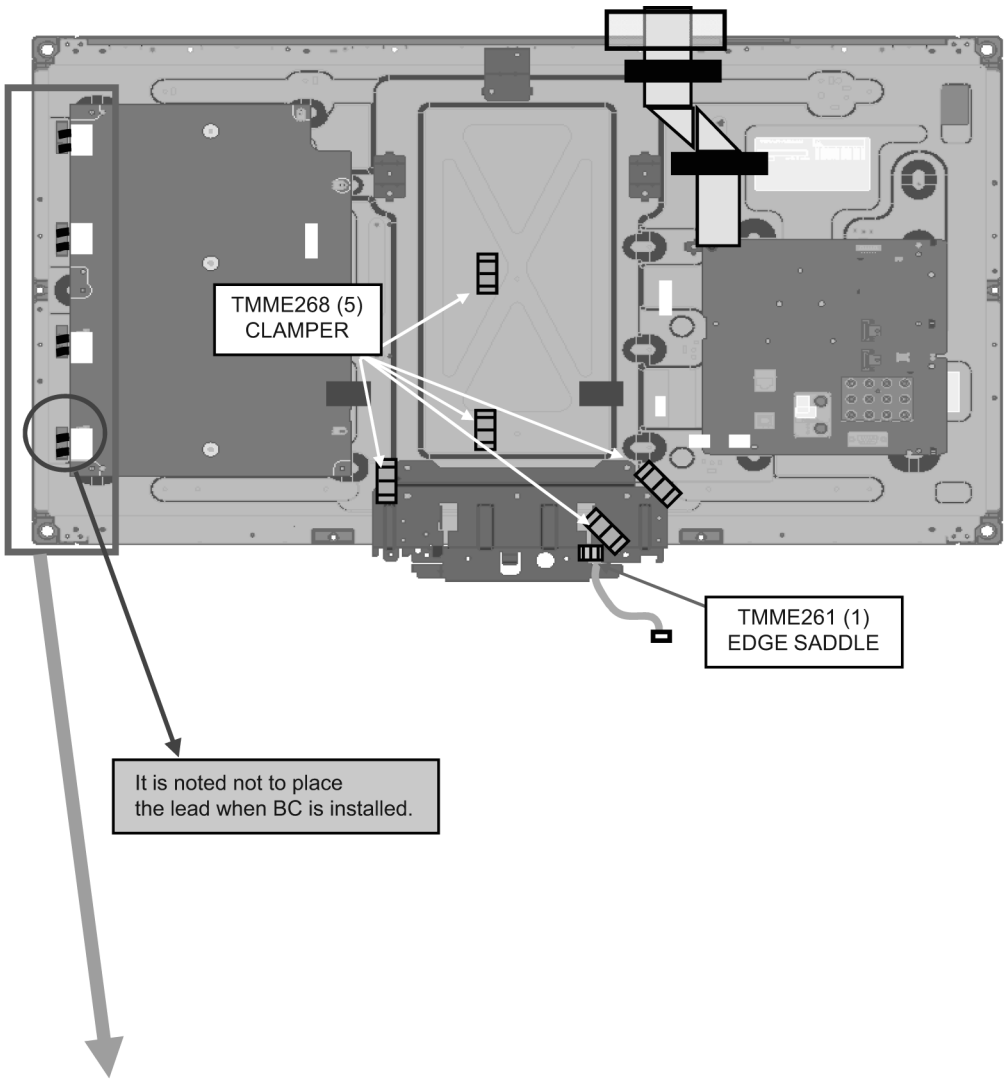


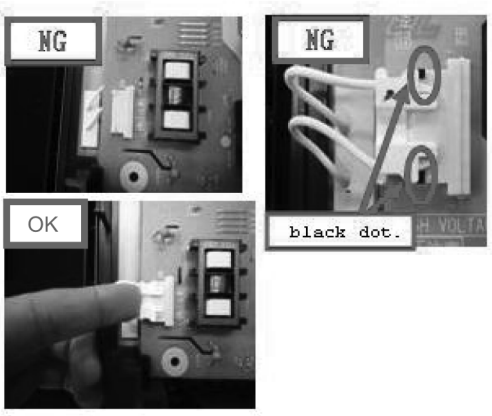
Through between LCD panel and boss of Cabinet



7.8. Inv-Lead & Clamper Assembly

1. Setting the CLAMPER
2. Insert inv-lead in P PCB.

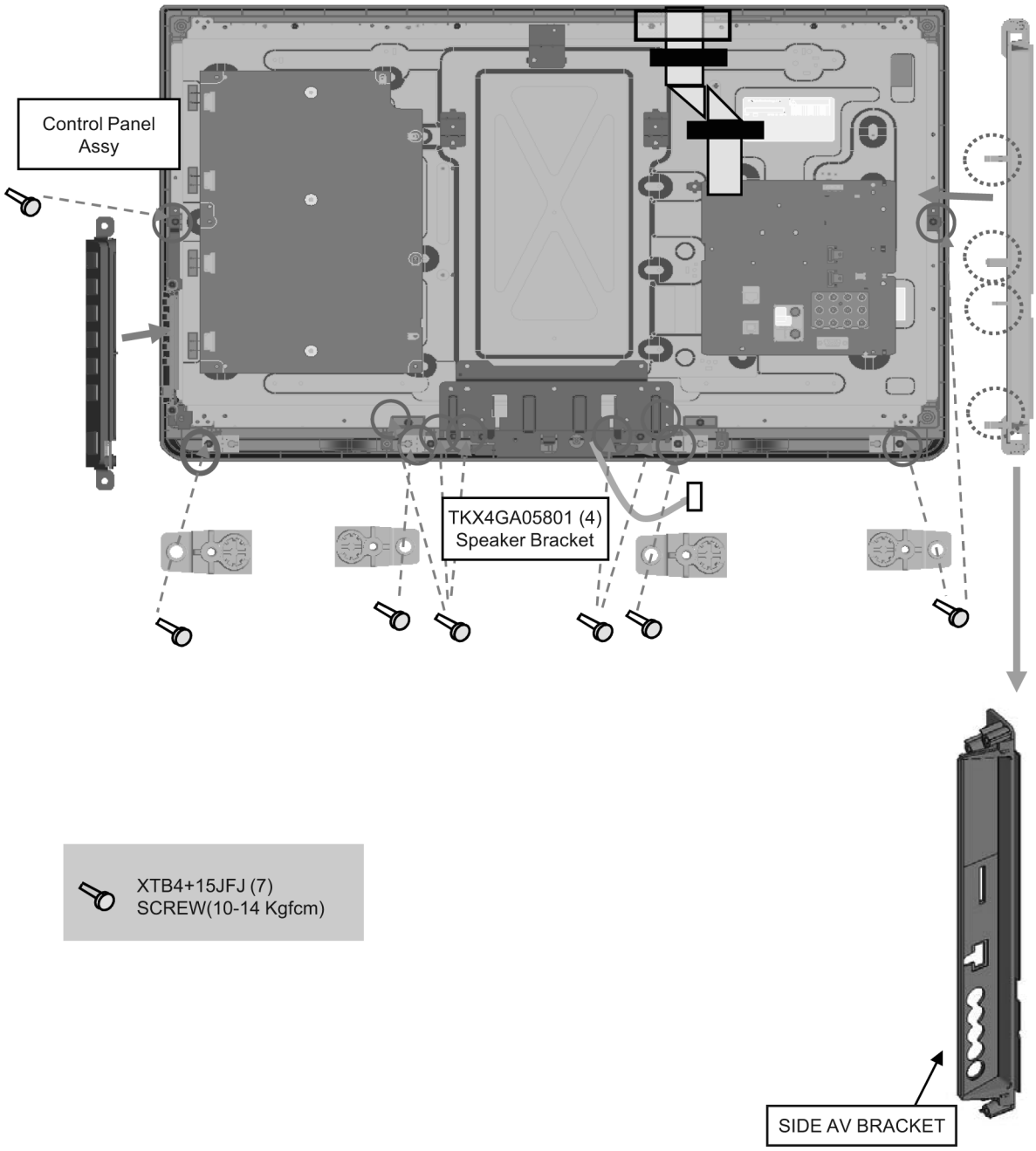




Caution :
Insert the connector until
close the black dot.
Ensure cannot see the black dot.

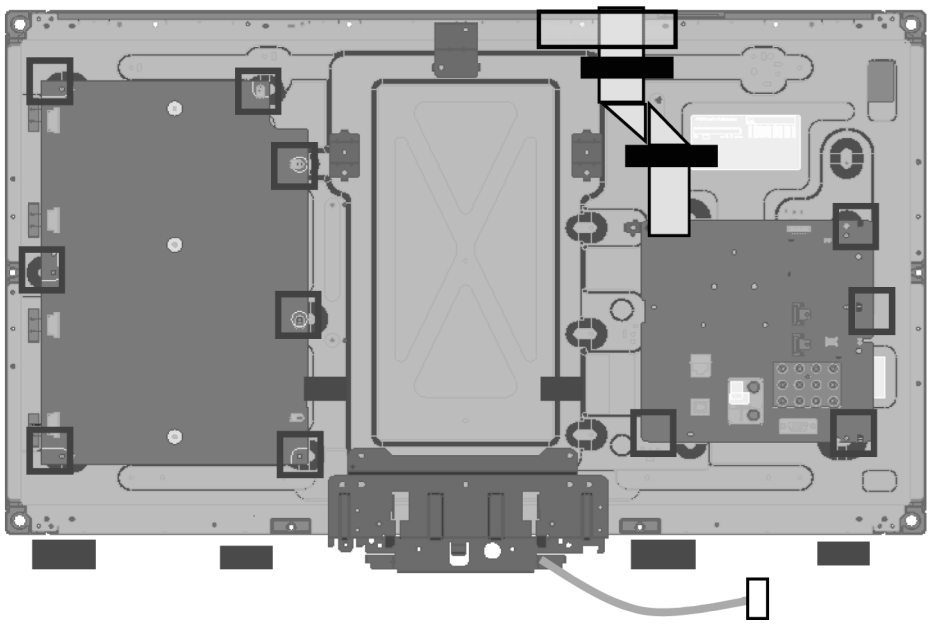
7.9. Bracket Assembly

1. Fix control panel, side av and speaker bracket.
2. Fix 4 pcs screw XTB4+15JFJ at speaker bracket.



7.10. Disassembly P Board and A Board Screws

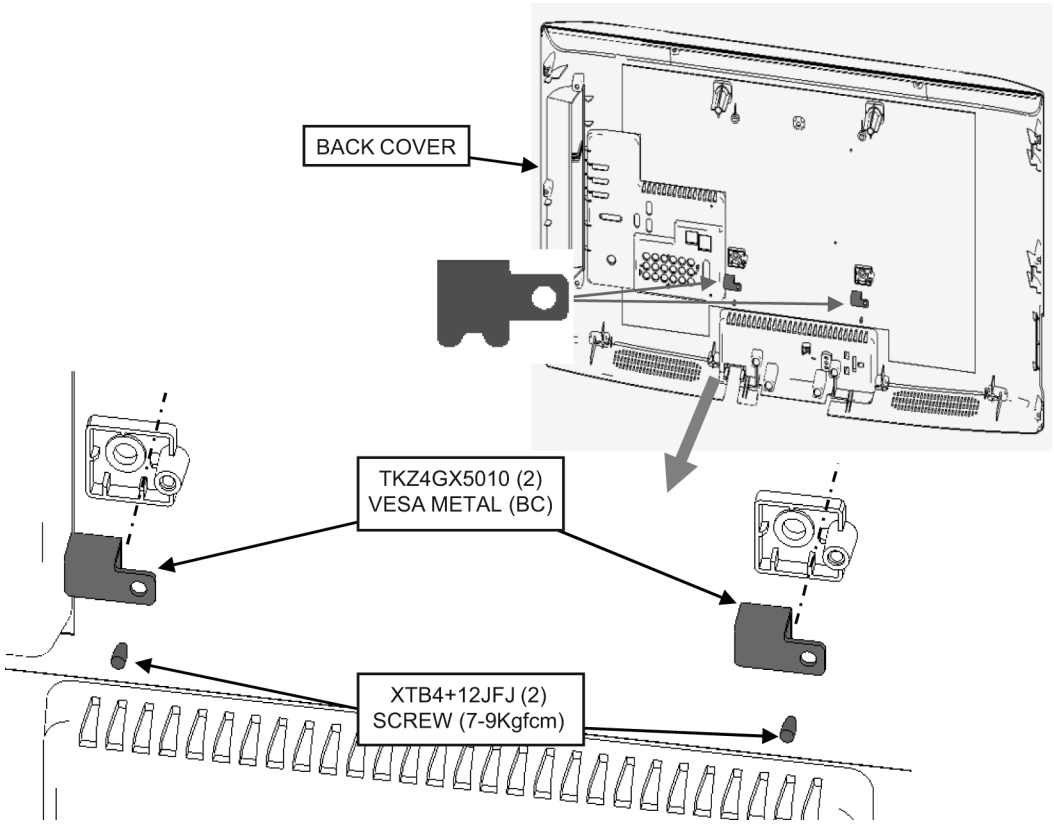
1. Remove the screws from P BOARD (7 pcs).
2. Remove the screws from A BOARD (4 pcs).



THEJ036J (11)
SCREW(10-14Kgfcm.)

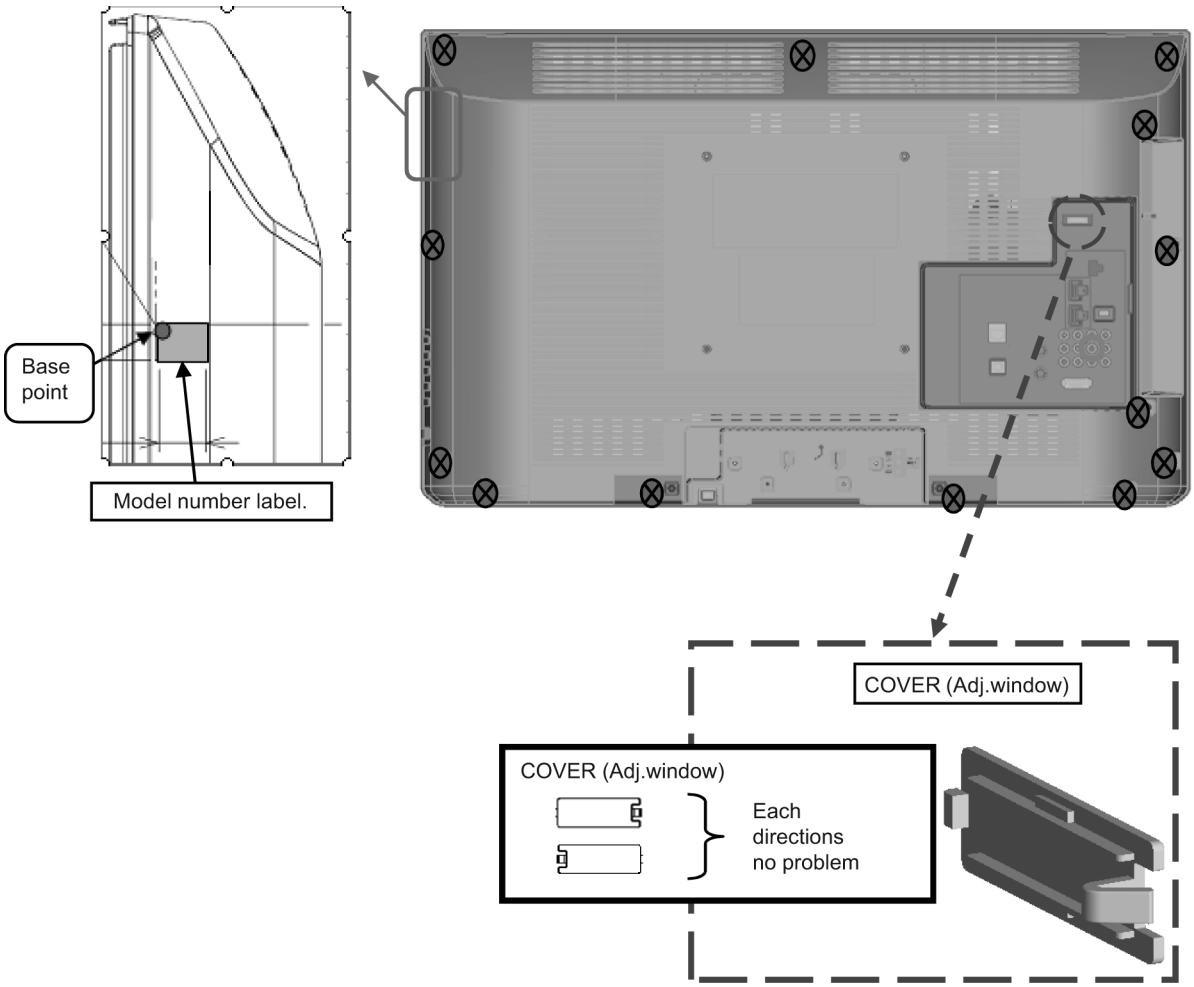
7.11. Back Cover Assembly 1

1. Put VESA METAL (BC) on the BACK COVER.
2. Fix them with SCREWS.



7.12. Back Cover Assembly 2

1. Fix the BACK COVER with SCREWS.
2. Insert COVER (Adj. window)



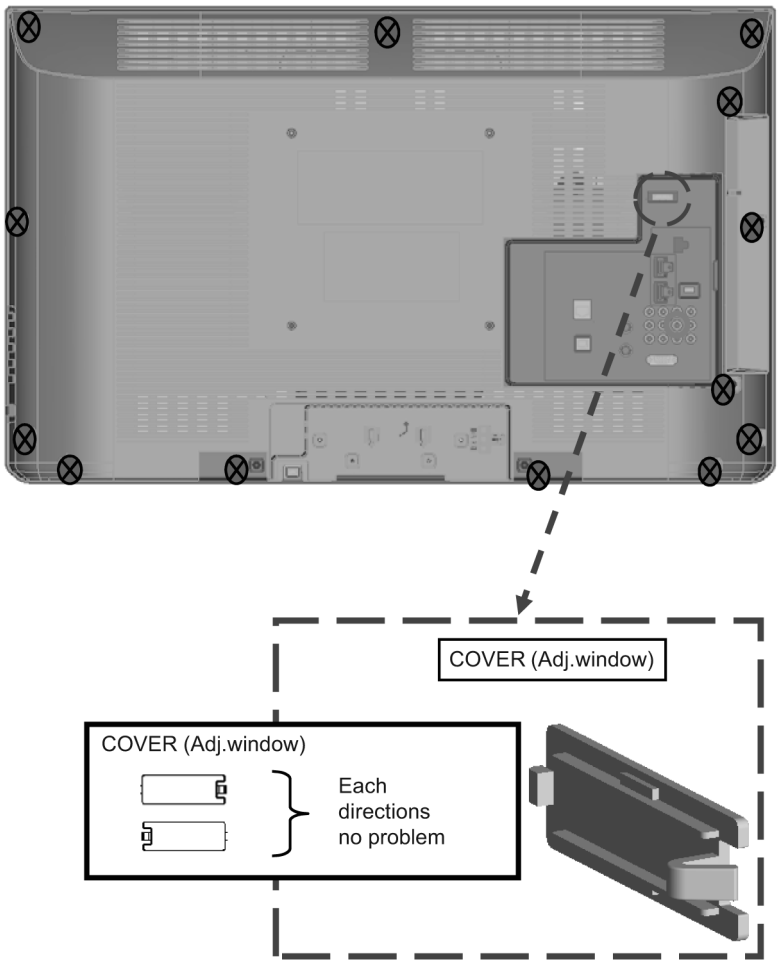
XTB4+15JFJK (13)
= 8-12Kgfcm

XTV3+10GFJK (1)
= 5-7Kgfcm

First, please insert BC topside.

7.13. Back Cover Disassembly

1. Remove the screws from the BACK COVER with 13 SCREWS and 1 SCREW at AV side.
2. Remove the screws from the Adj. windoow CoVER.



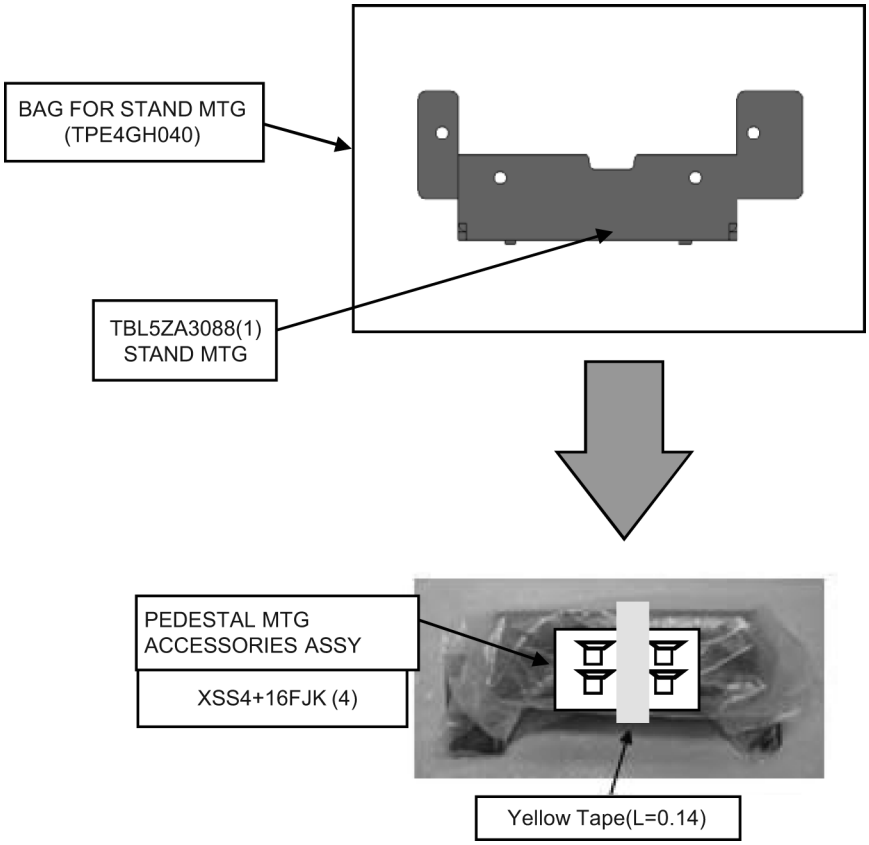
XTB4+15JFJK (13)
= 8-12Kgfcm

XTV3+10GFJK (1)
= 5-7Kgfcm

Open from bottom side

7.14. Stand MTG Assembly

1. STAND MTG are put in BAG.
2. BAG is wrapped around STAND MTG.
3. SCREW is put in the BAG and use yellow tape to hold screw bag.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

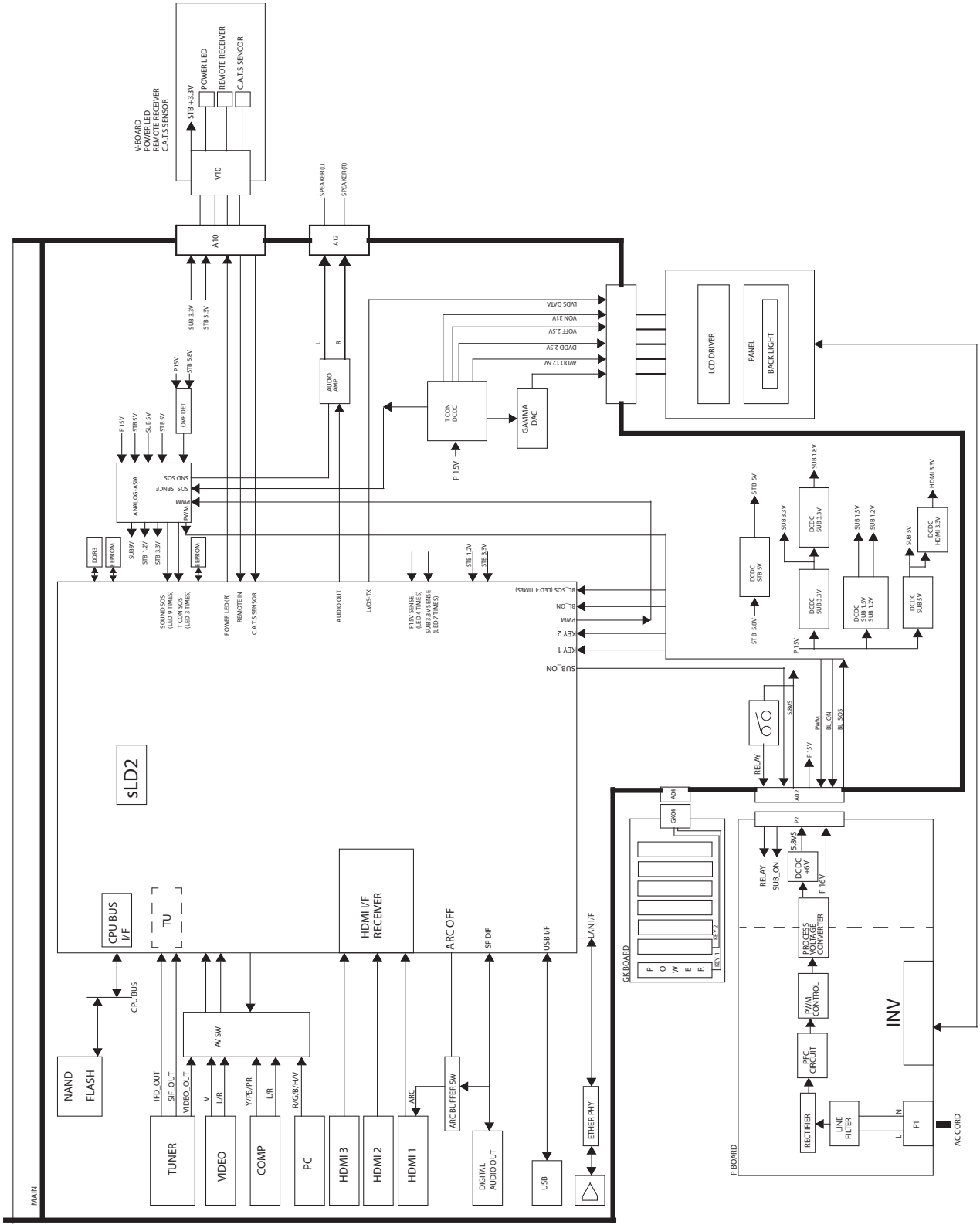
Power Supply Name	Measurement Point	Specification (V)
SUB1.8V	TP8700	1.74 - 1.90 V
SUB1.2V	TP8100	1.18 - 1.32 V
SUB3.3V	TP8701	3.19 - 3.46 V
SUB5V	TP8702	4.75 - 5.25 V
STB5V	TP5400	4.9 - 5.1 V
SUB1.5V	TP8101	1.4 - 1.6 V

8.2. Voltage chart of P-board

VOLTAGE	TEST POINT	SPECIFICATION (V)	STATE	
PFC390V	+ TP7201, 7202	390 ± 15	Reception	* HOT
	- TP7203, 7204	-	Reception	* HOT
DTV16V	TP7801, 7505	15.6 ± 1.5	Reception	
STBY6V	TP7506	5.8 ± 0.8	Reception	
		5.8 ± 0.8	Stand by	

9 Block Diagram

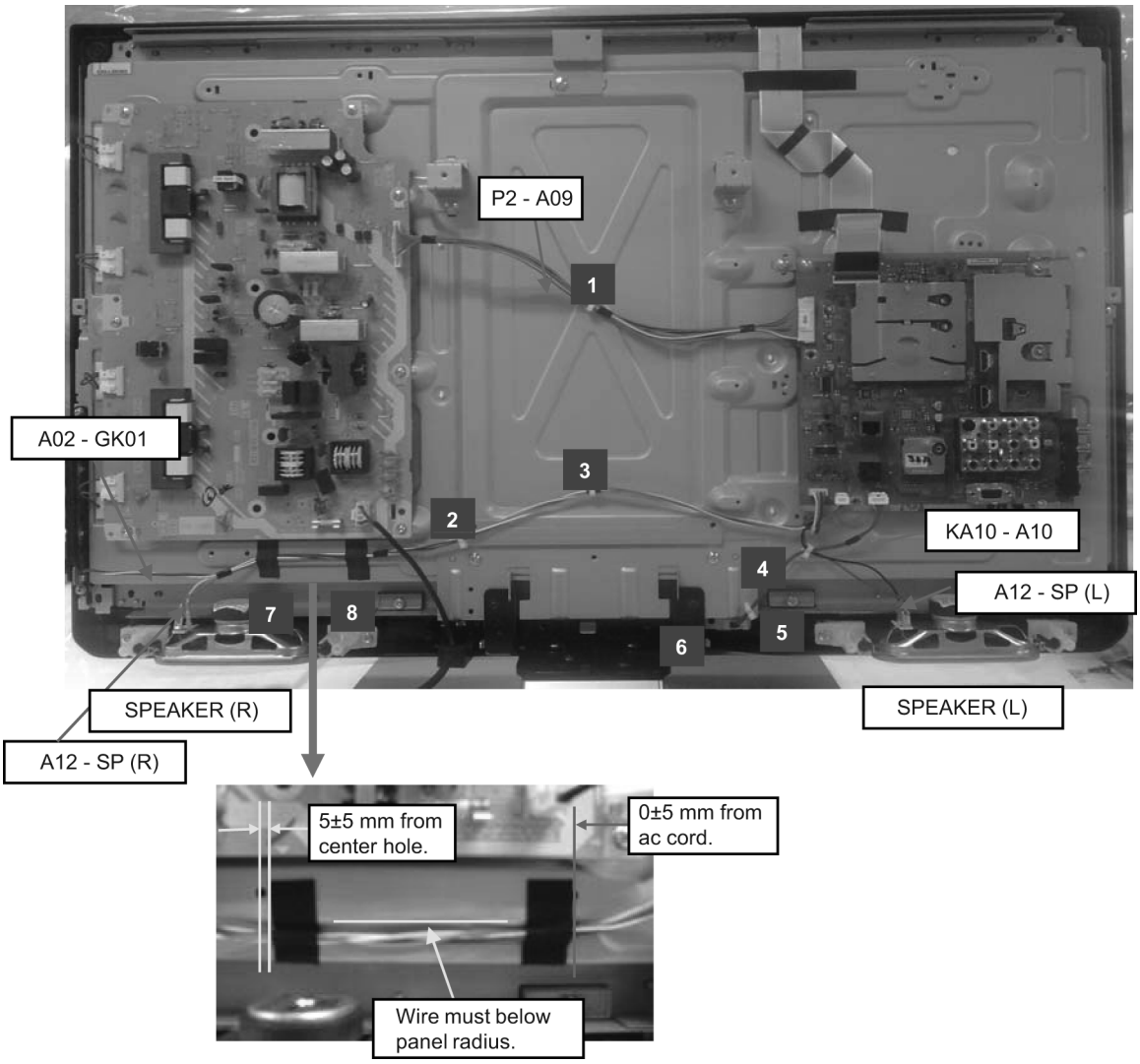
9.1. Main Block Diagram



10 Wiring Connection Diagram

10.1. Wire Dressing

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



Wire		Clamper							
								FELT	
		1	2	3	4	5	6	7	8
No.1	P2 - A09	●							
No.2	A02 - GK01		●	●	●			●	●
No.3	A10 - KA10				●	●	●		
No.4	A12 - SP (L)				●				
No.5	A12 - SP (R)		●	●	●			●	●

11 Schematic Diagram

11.1. Schematic Diagram Notes

Notes:

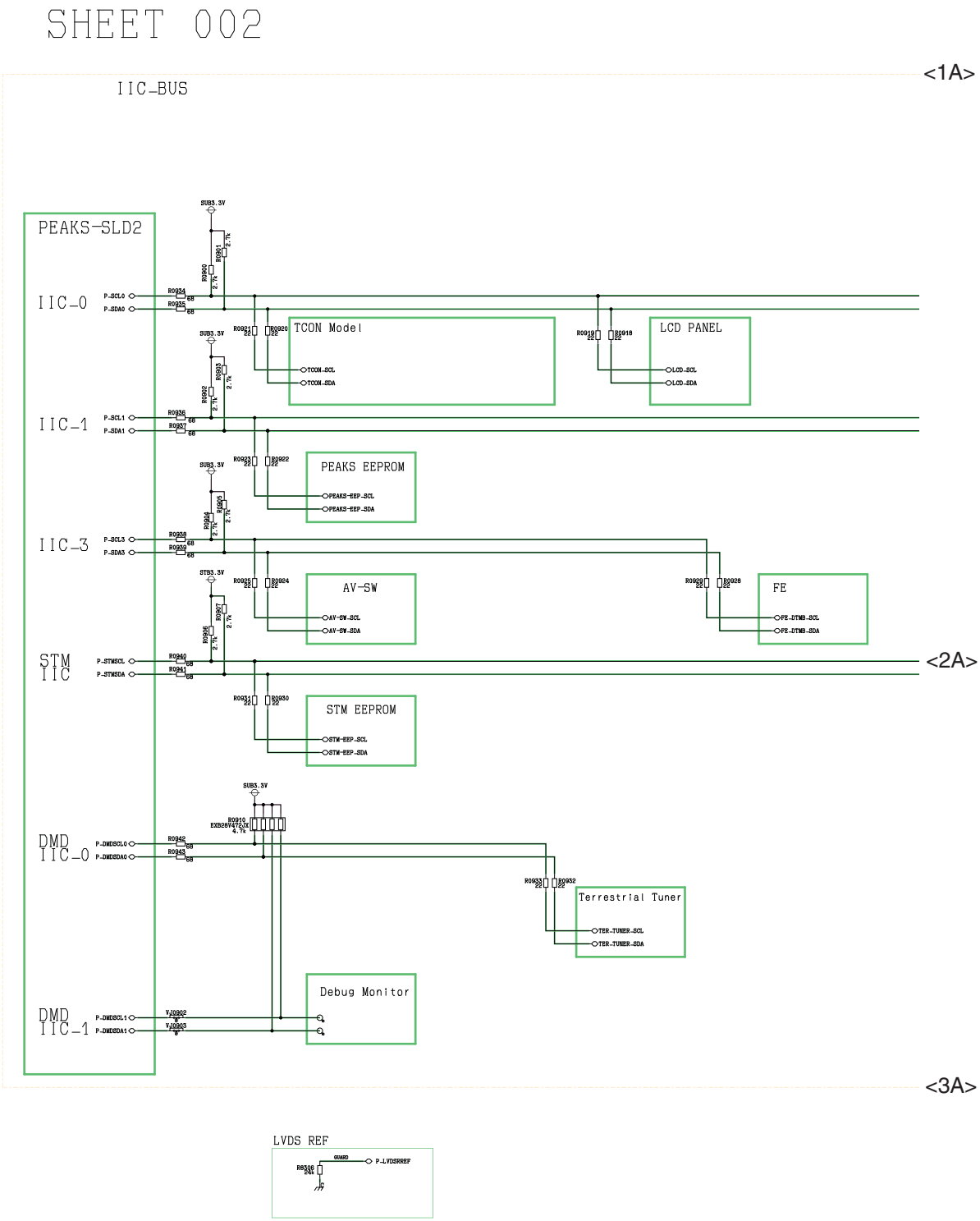
1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (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:

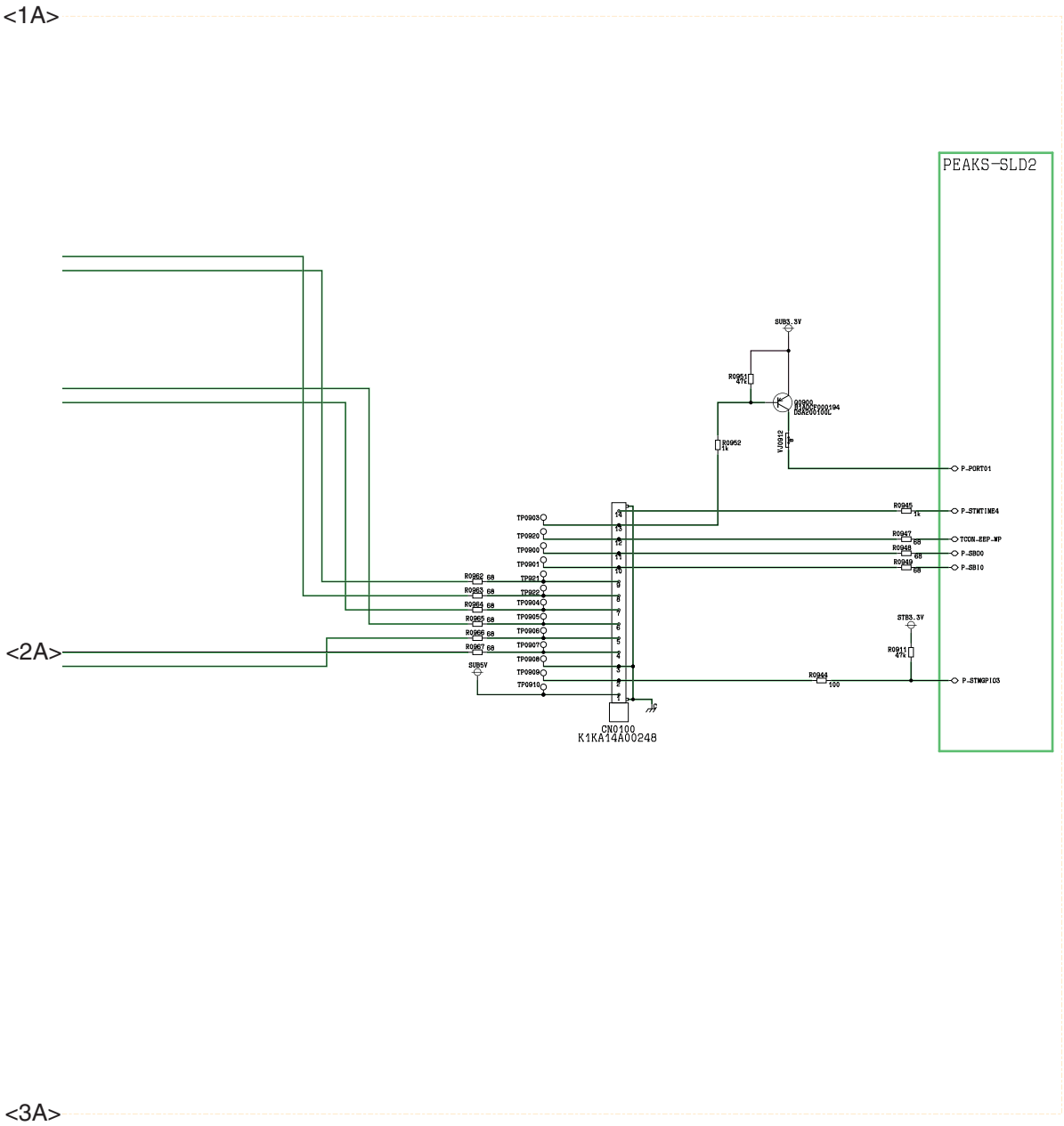
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do 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

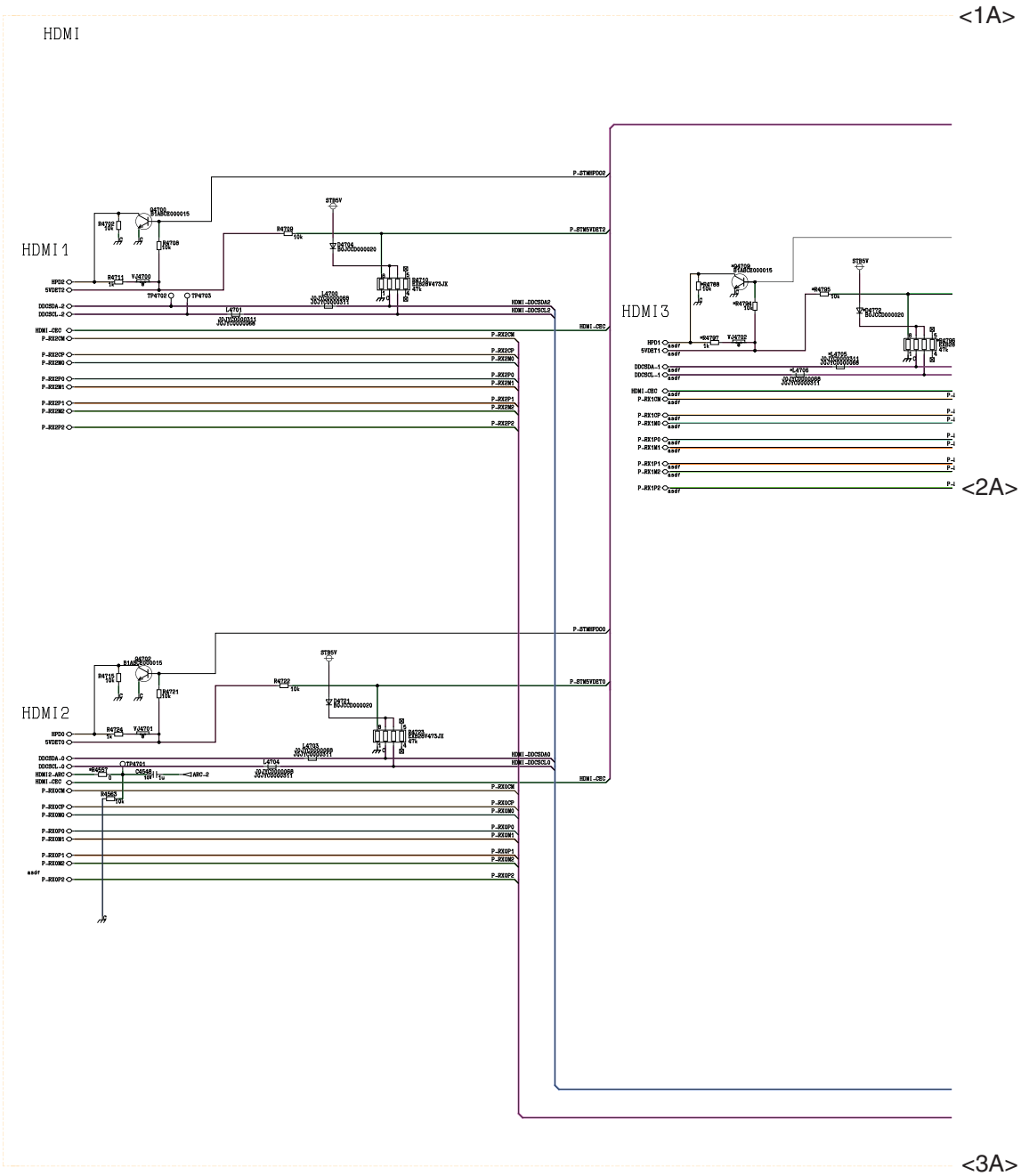
11.2.1. A Board - Sheet : 002 (1 / 2)



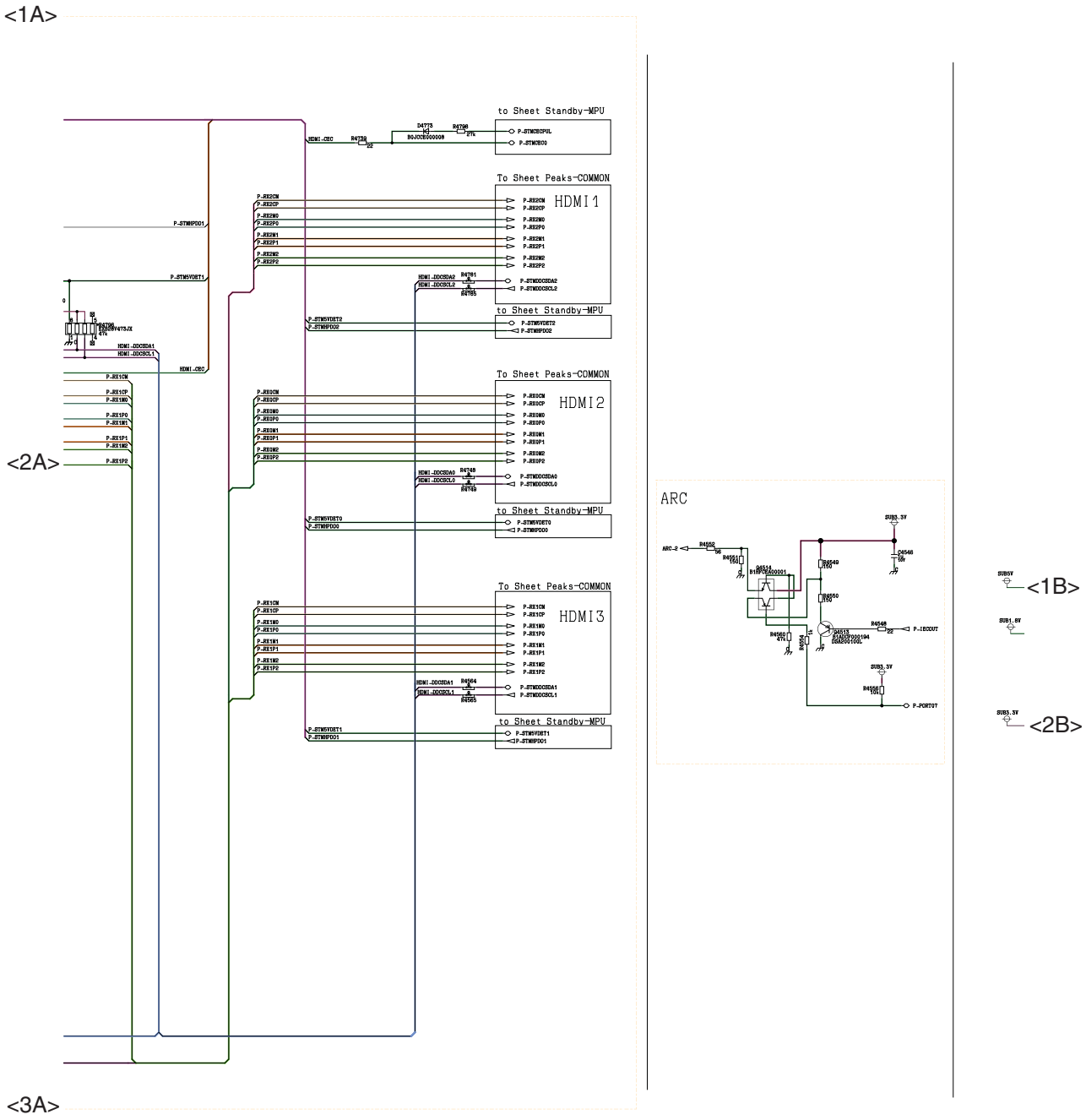
11.2.2. A Board - Sheet : 002 (2 / 2)



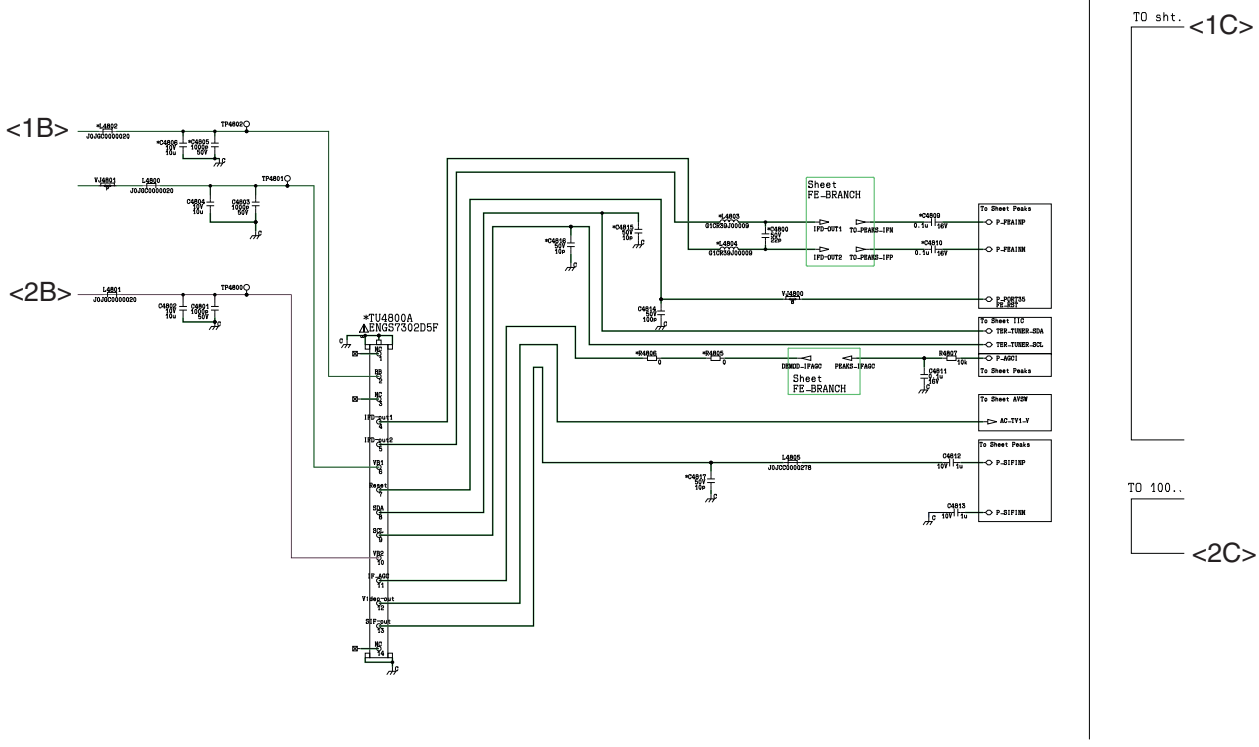
11.2.3. A Board - Sheet : 003 (1 / 5)



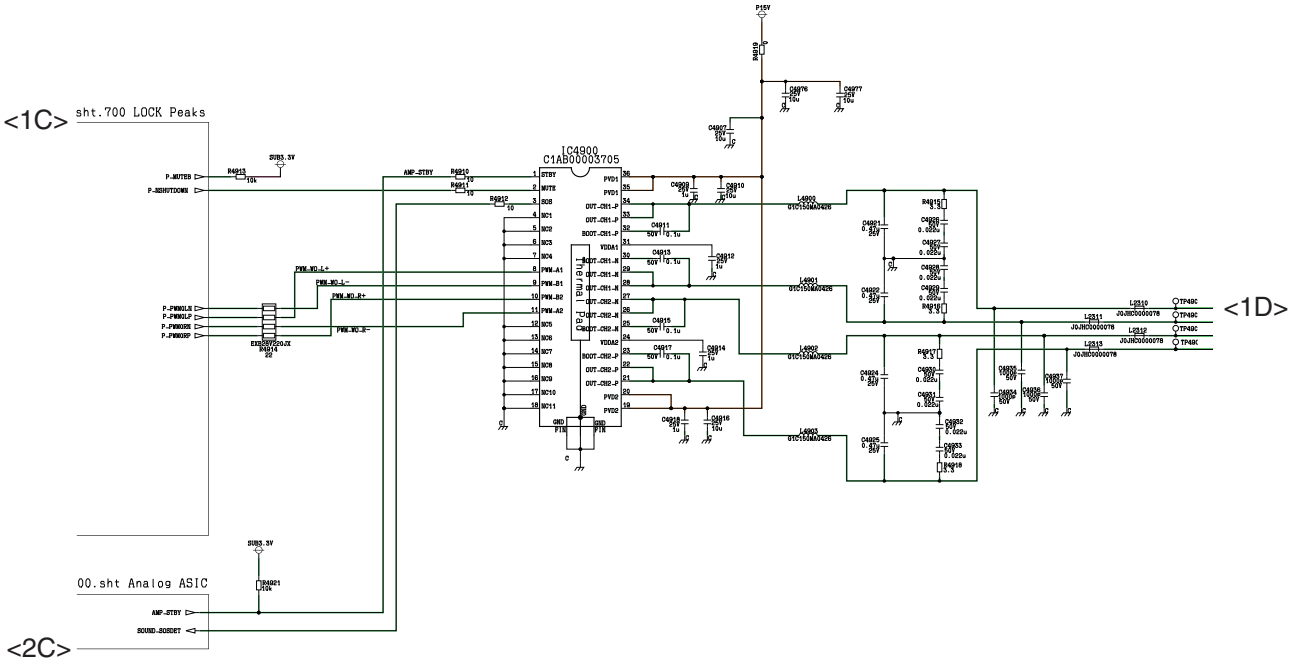
11.2.4. A Board - Sheet : 003 (2 / 5)



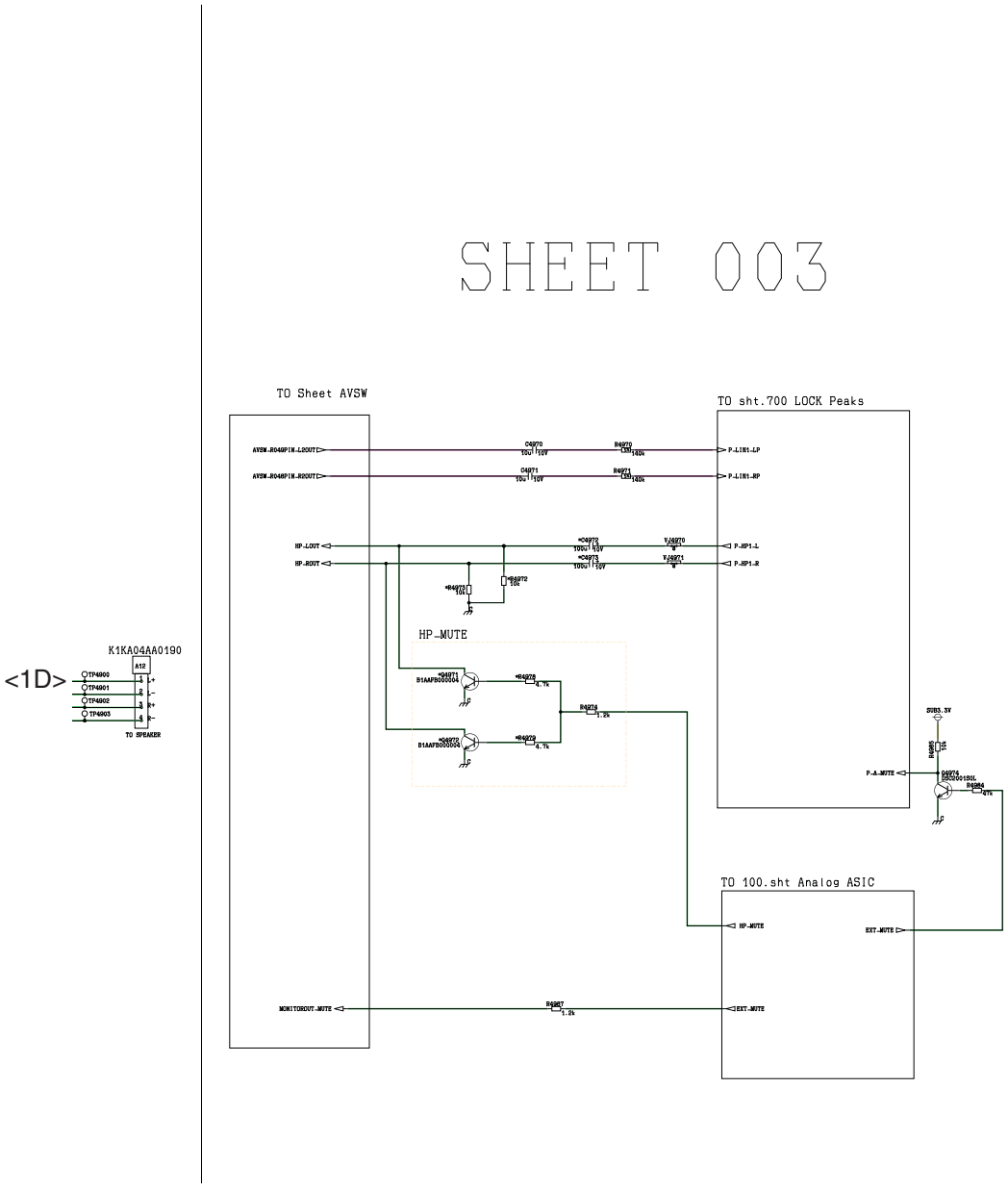
11.2.5. A Board - Sheet : 003 (3 / 5)



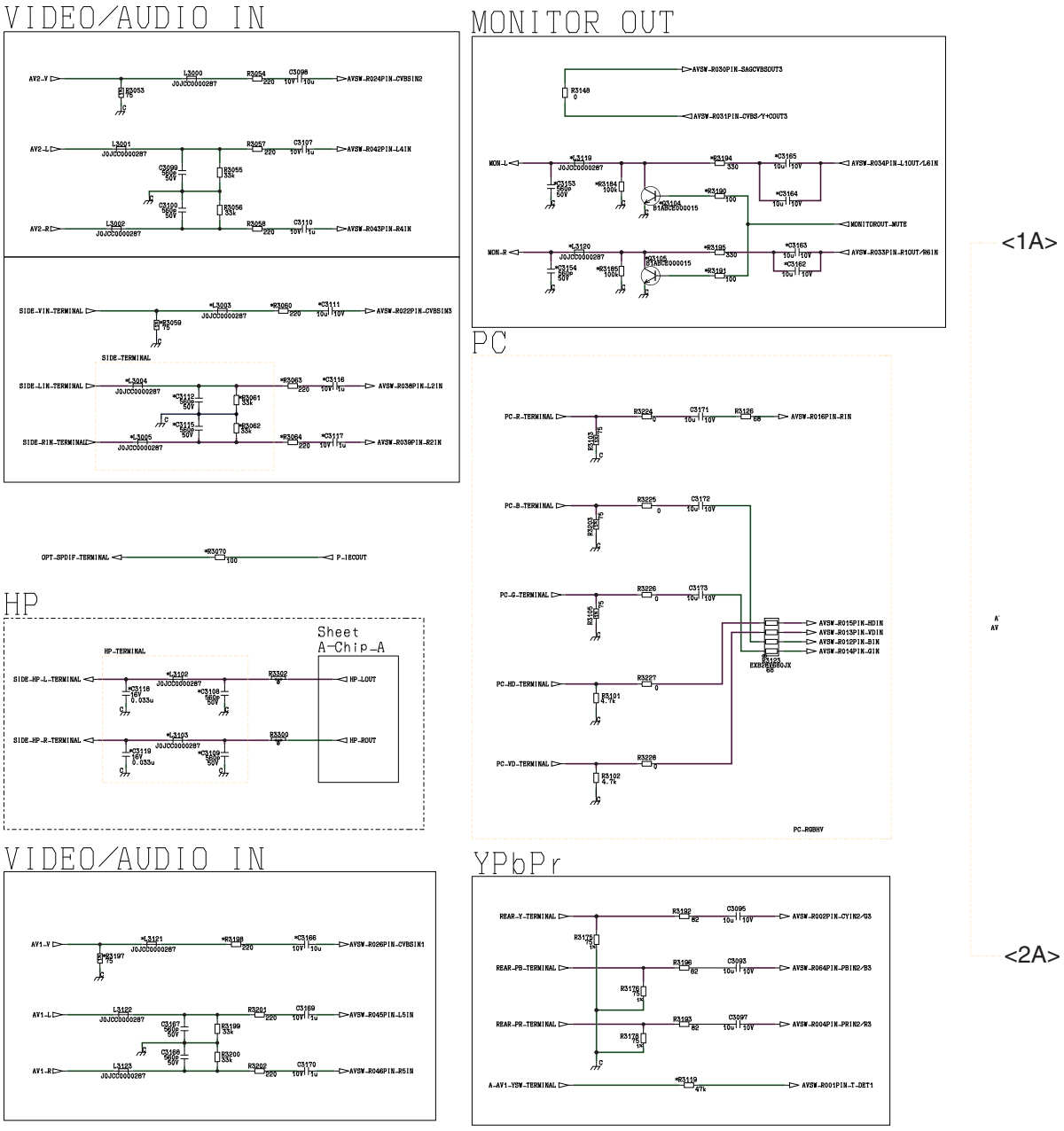
11.2.6. A Board - Sheet : 003 (4 / 5)



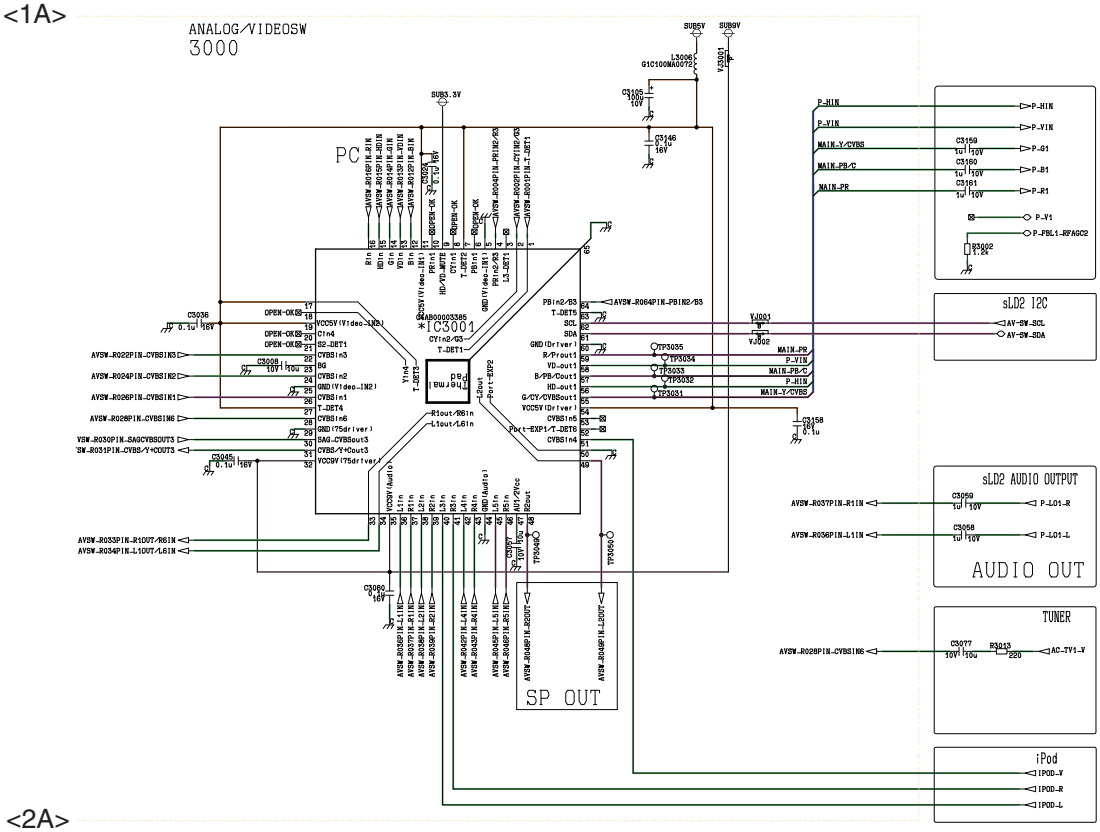
11.2.7. A Board - Sheet : 003 (5 / 5)



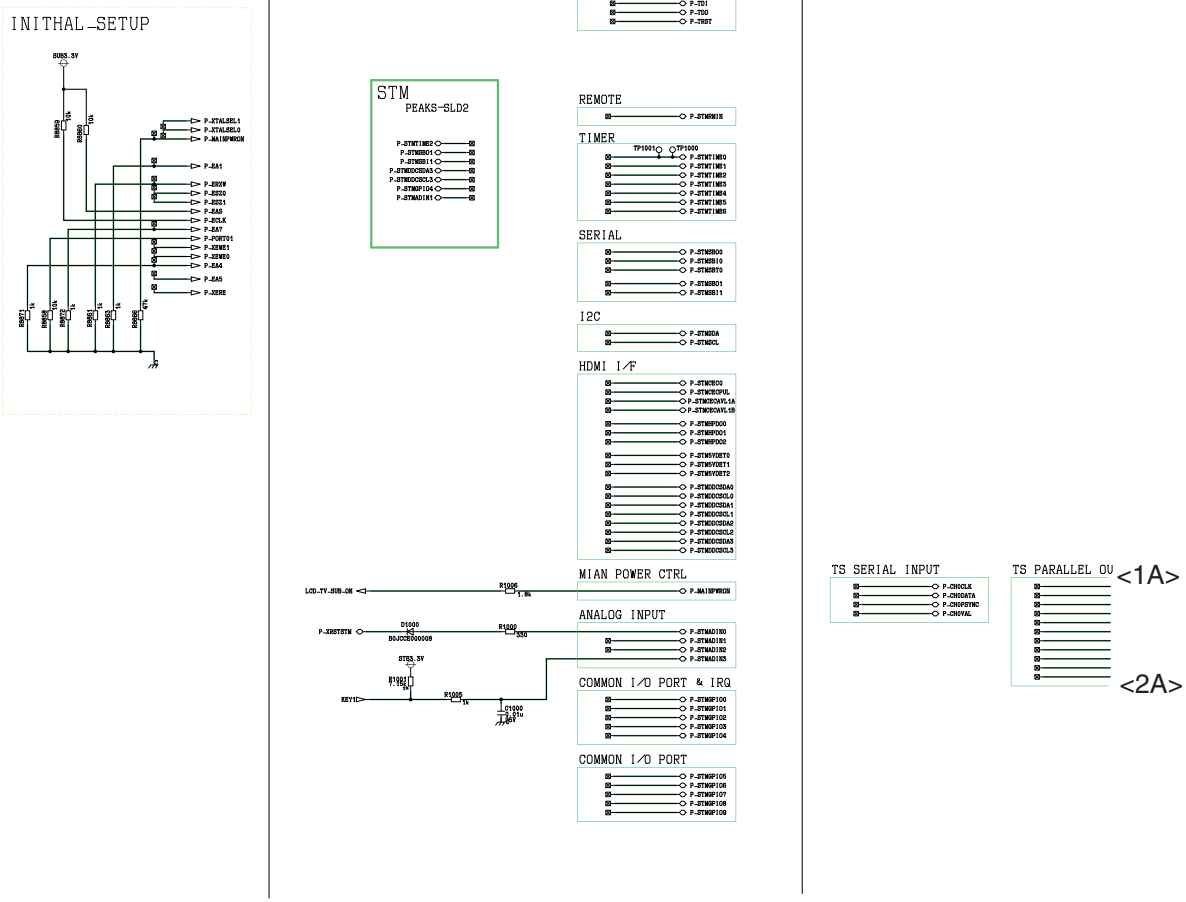
11.2.8. A Board - Sheet : 004 (1 / 2)



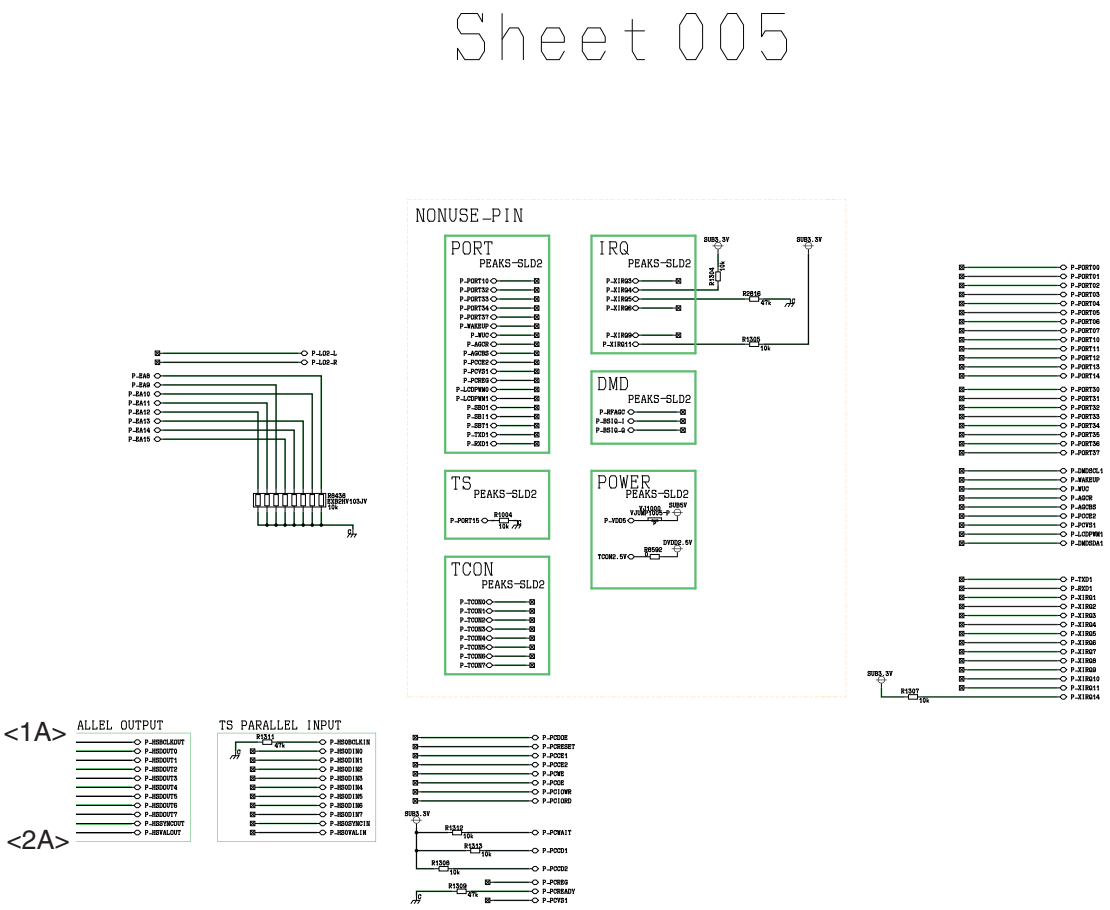
11.2.9. A Board - Sheet : 004 (2 / 2)



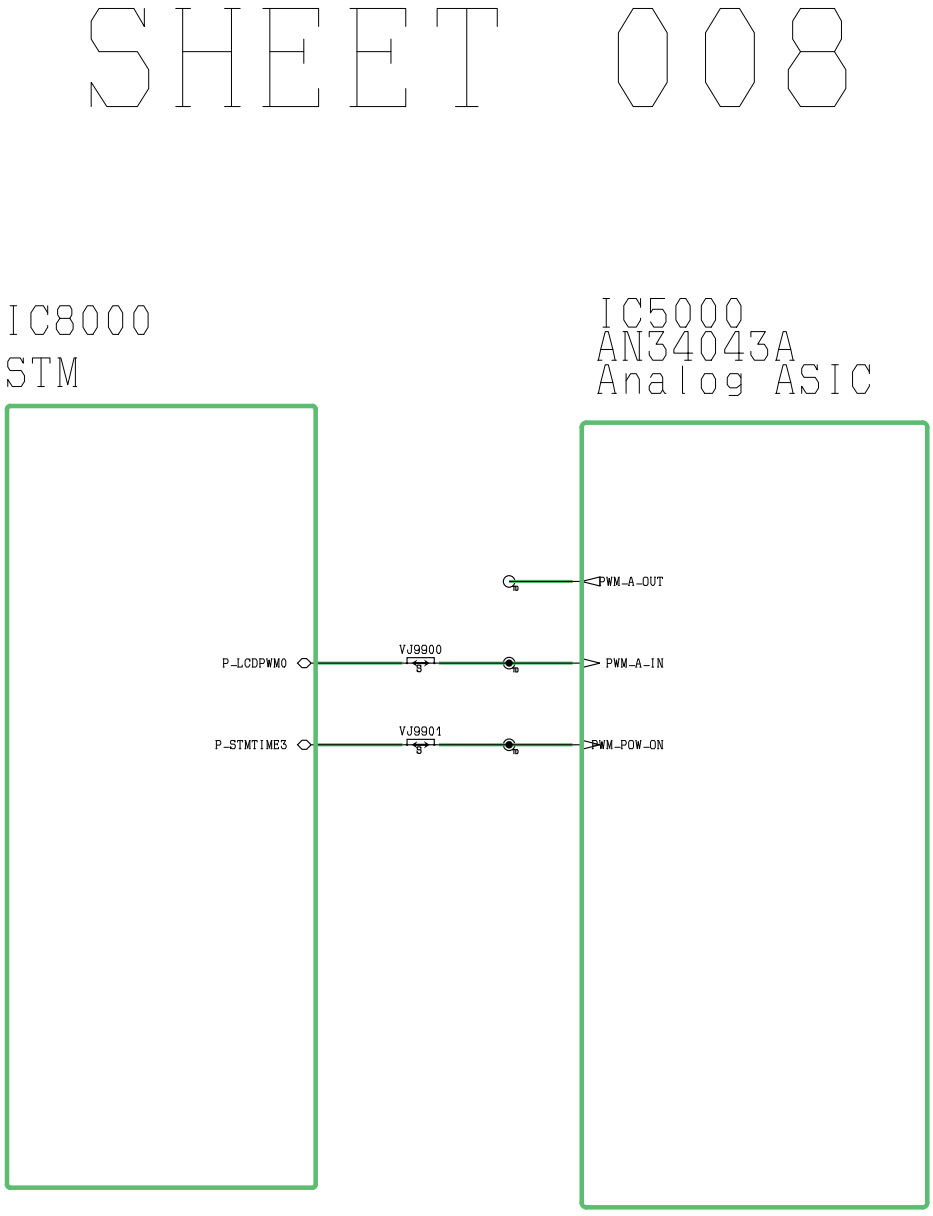
11.2.10. A Board - Sheet : 005 (1 / 2)



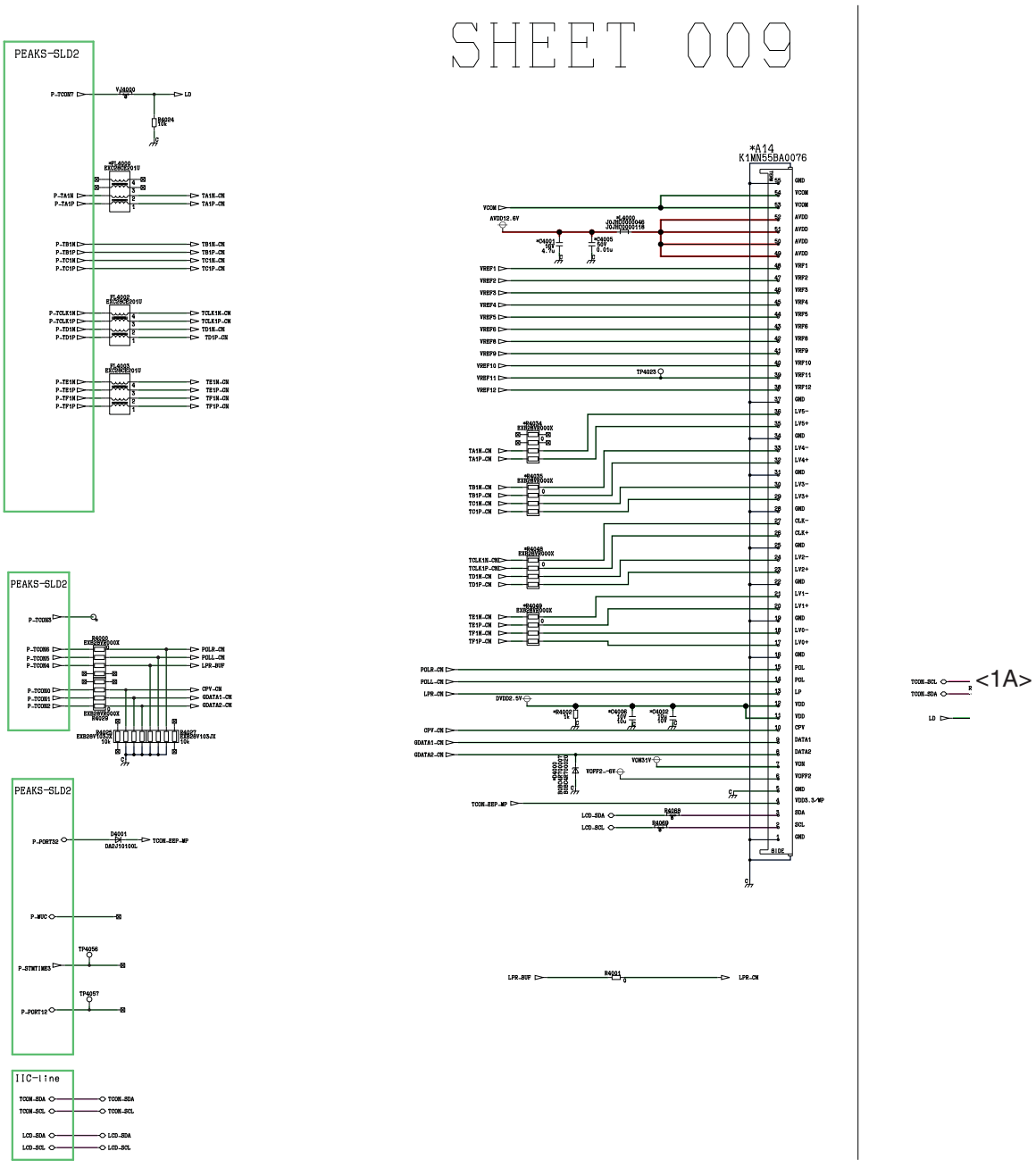
11.2.11. A Board - Sheet : 005 (2 / 2)



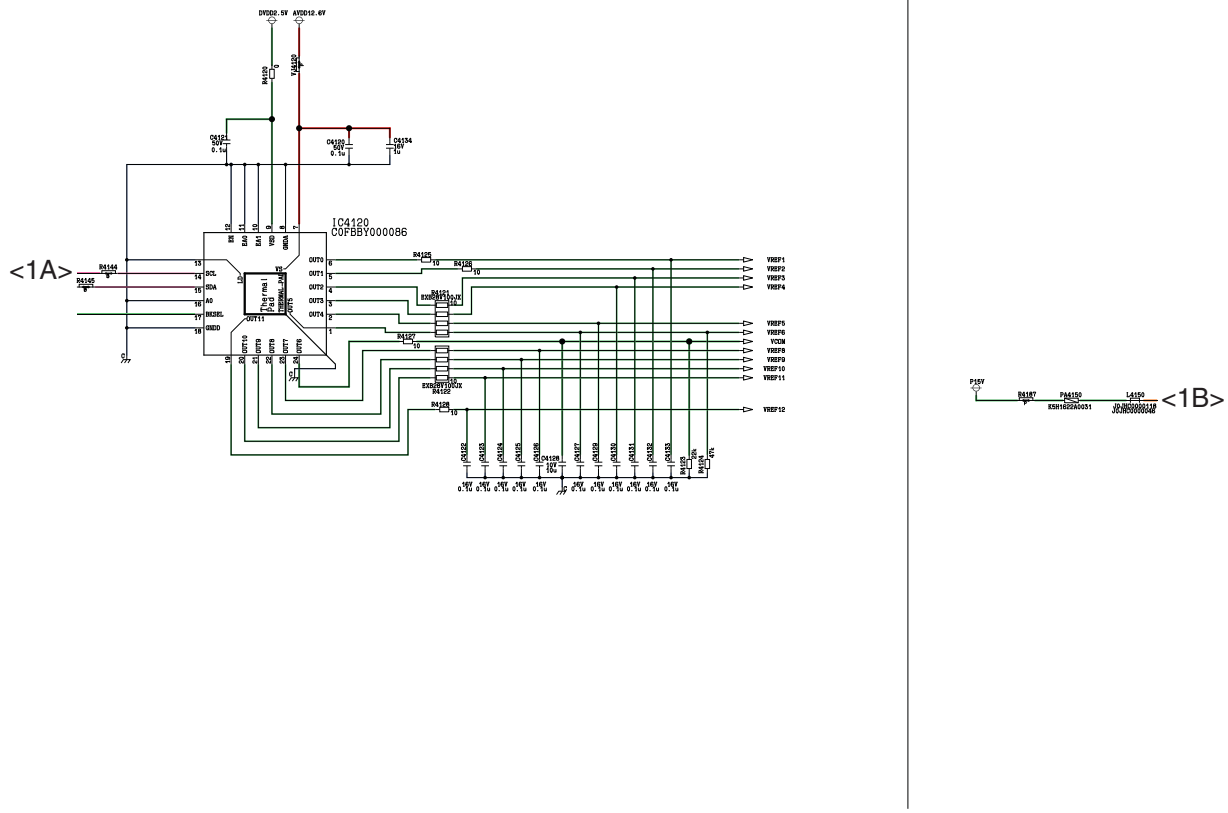
11.2.12. A Board - Sheet : 008 (1 / 1)



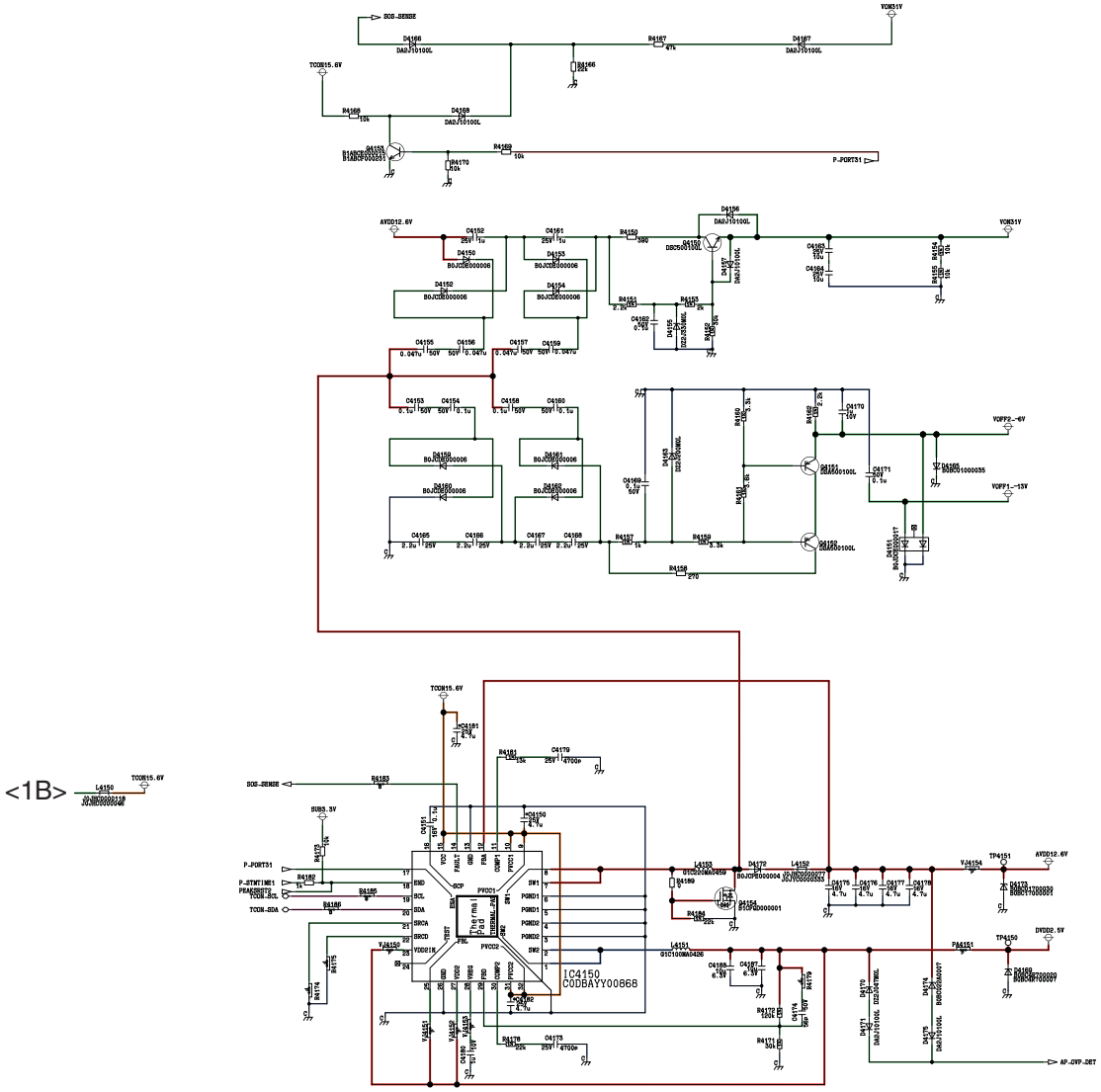
11.2.13. A Board - Sheet : 009 (1 / 3)



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

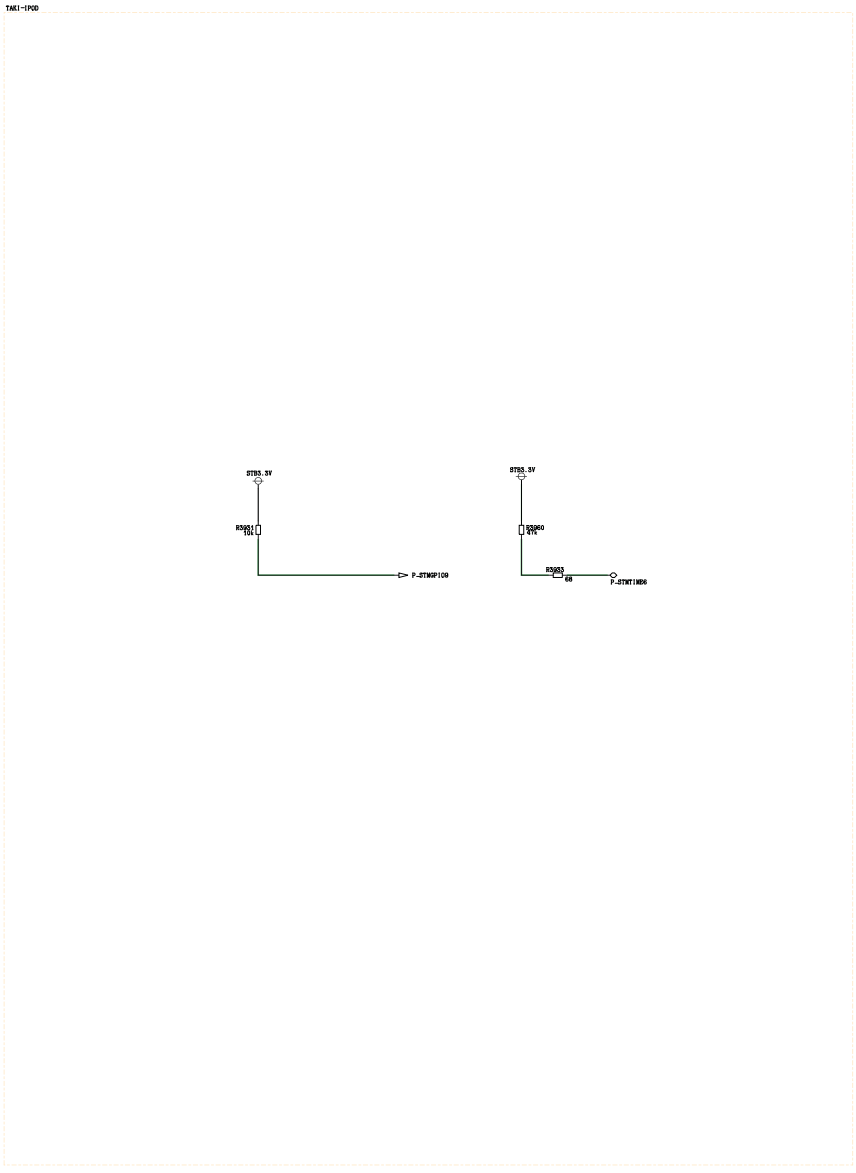


11.2.15. A Board - Sheet : 009 (3 / 3)

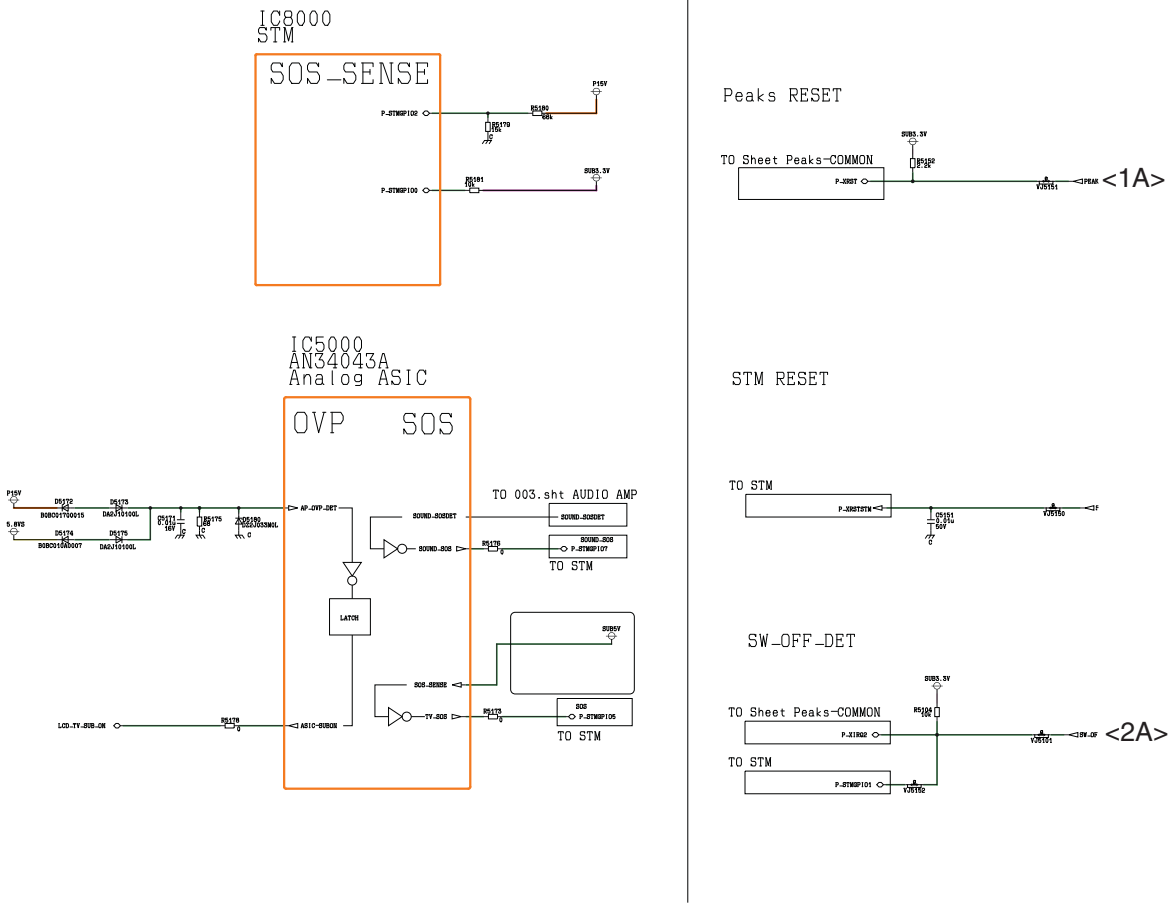


11.2.16. A Board - Sheet : 010 (1 / 1)

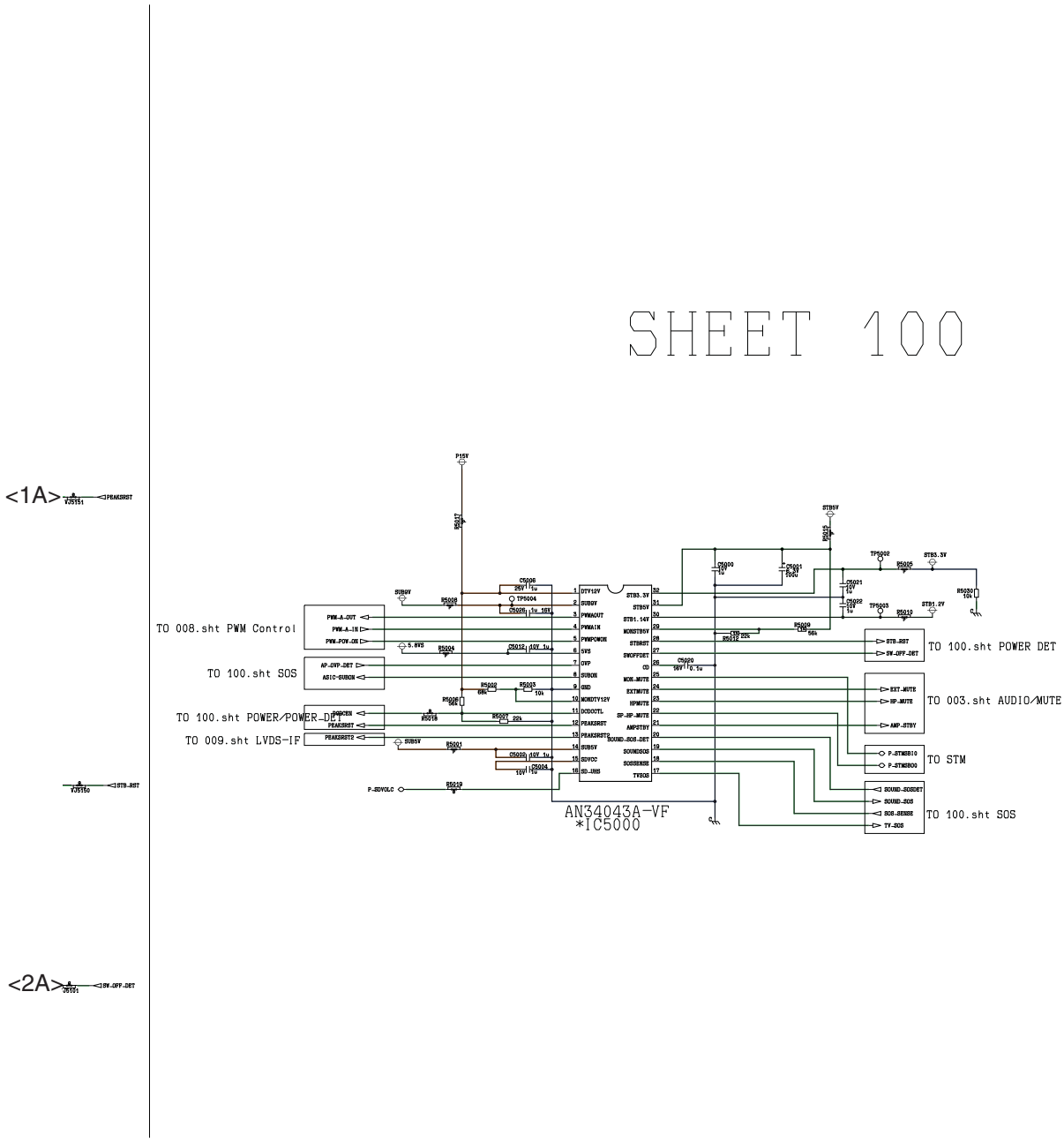
SHEET 010



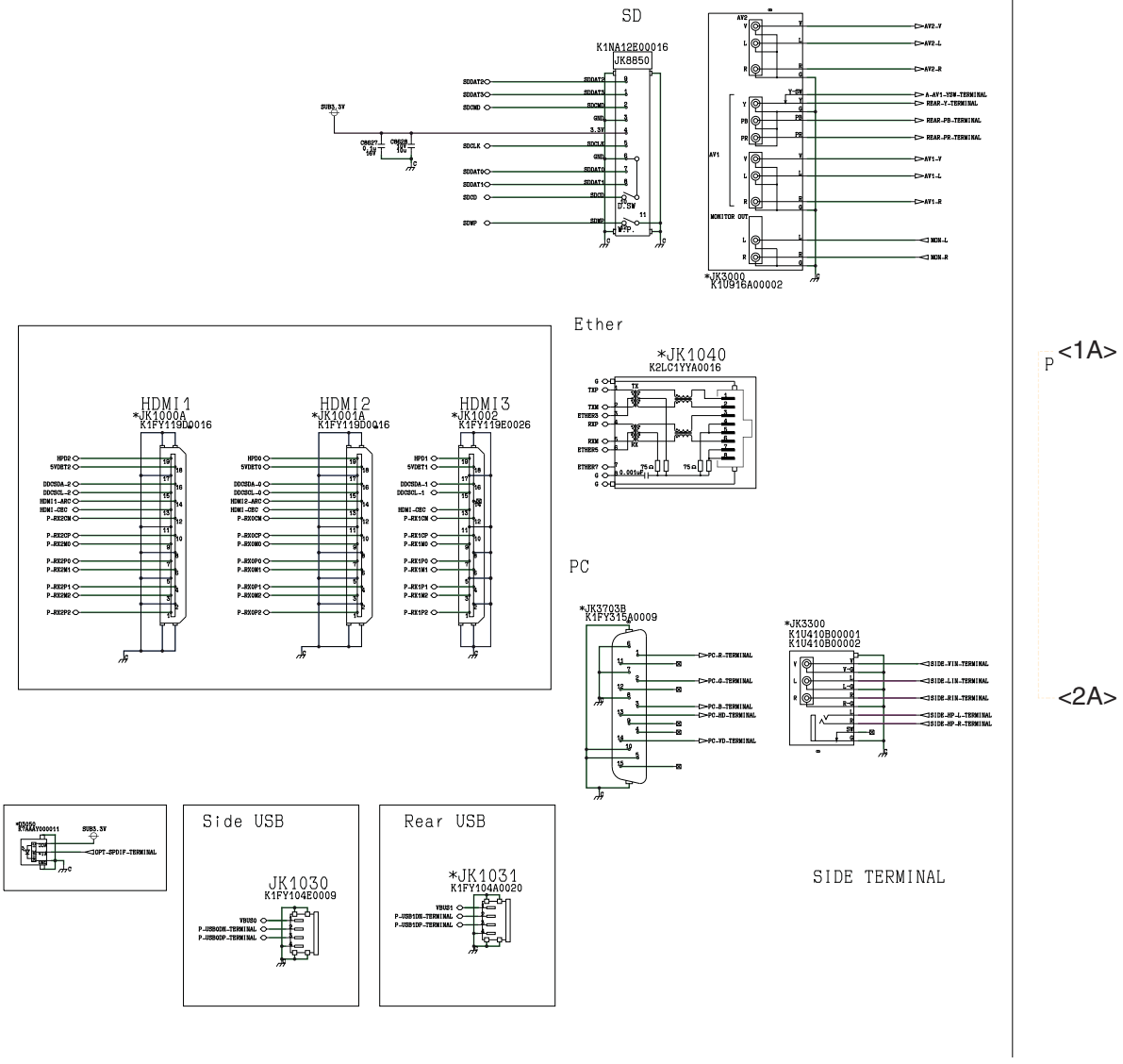
11.2.17. A Board - Sheet : 100 (1 / 2)



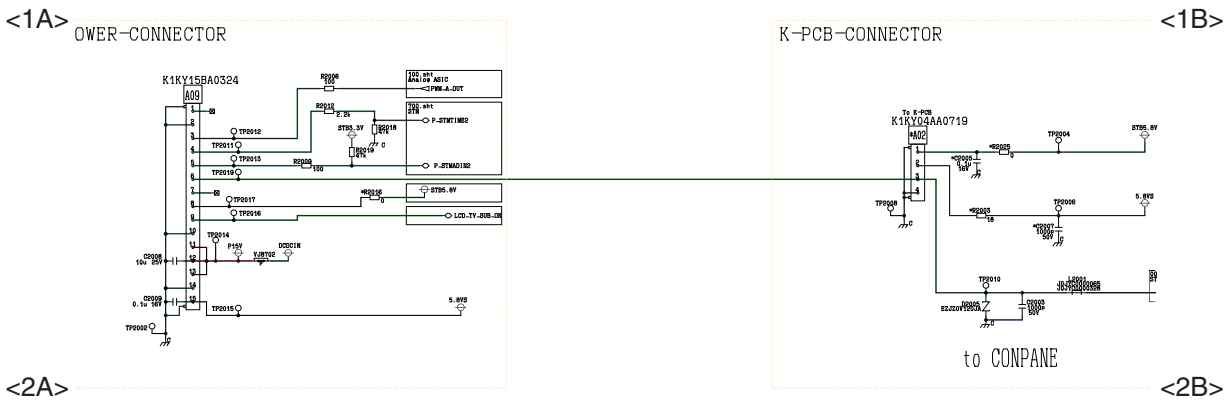
11.2.18. A Board - Sheet : 100 (2 / 2)



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

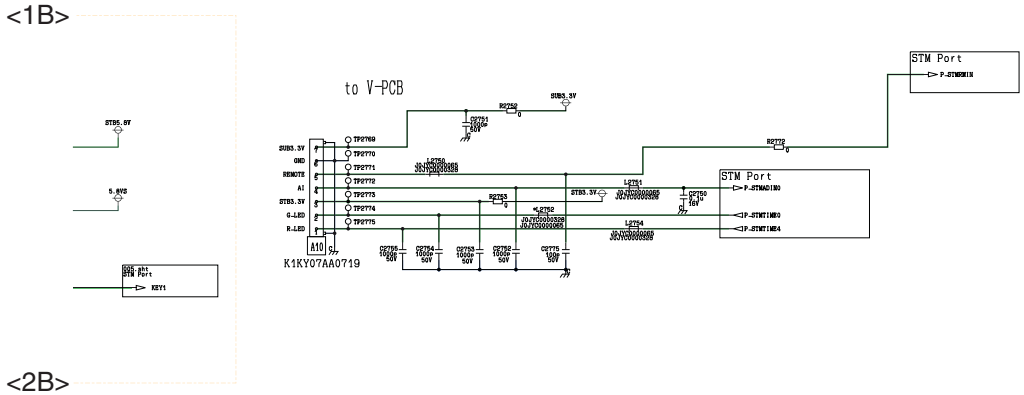


11.2.20. A Board - Sheet : 101 (2 / 3)

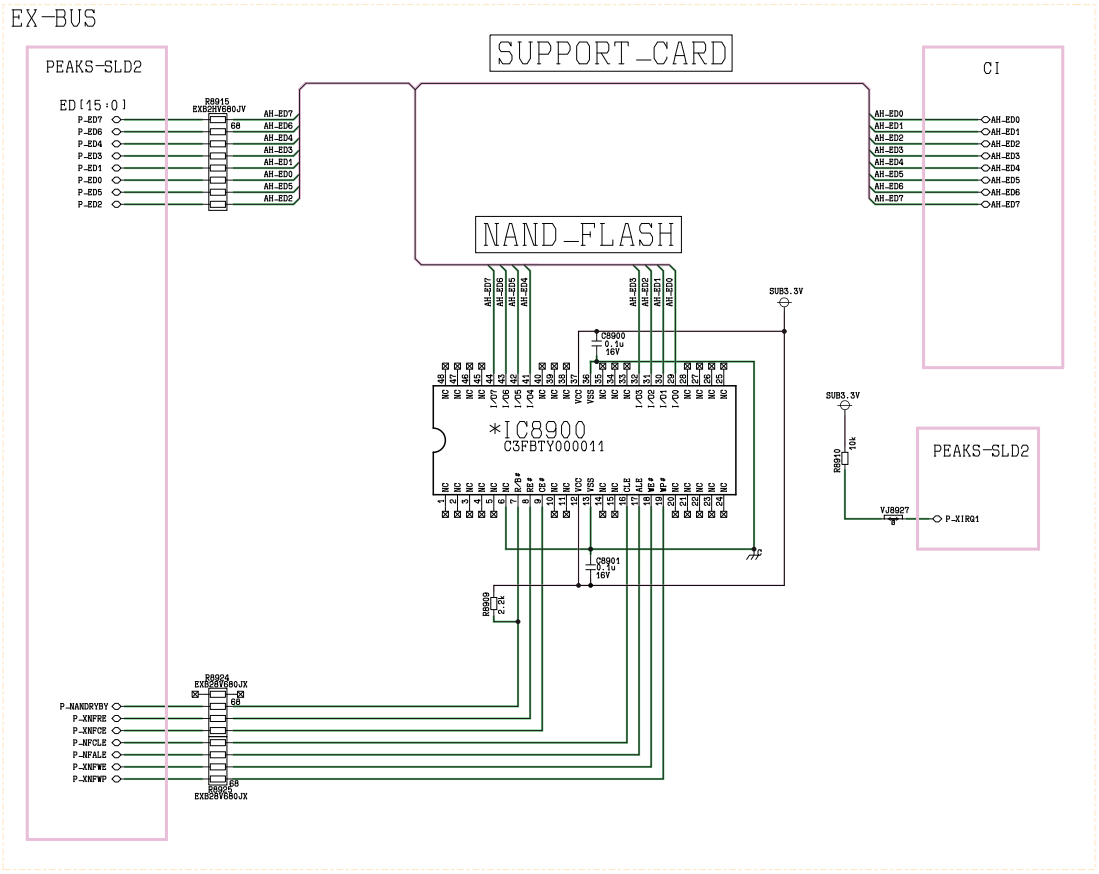


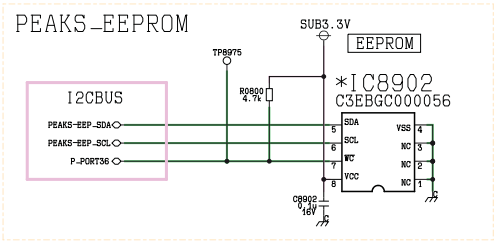
11.2.21. A Board - Sheet : 101 (3 / 3)

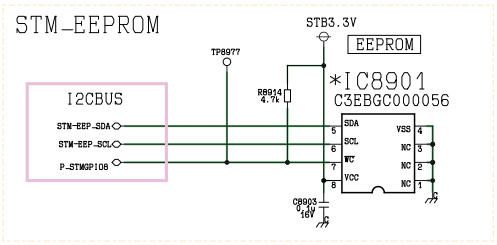
SHEET 101

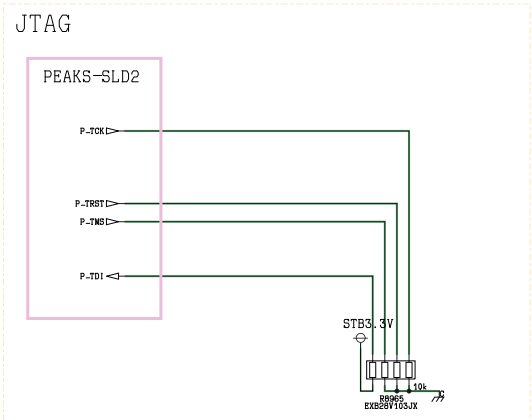


11.2.22. A Board - Sheet : 300 (1 / 1)



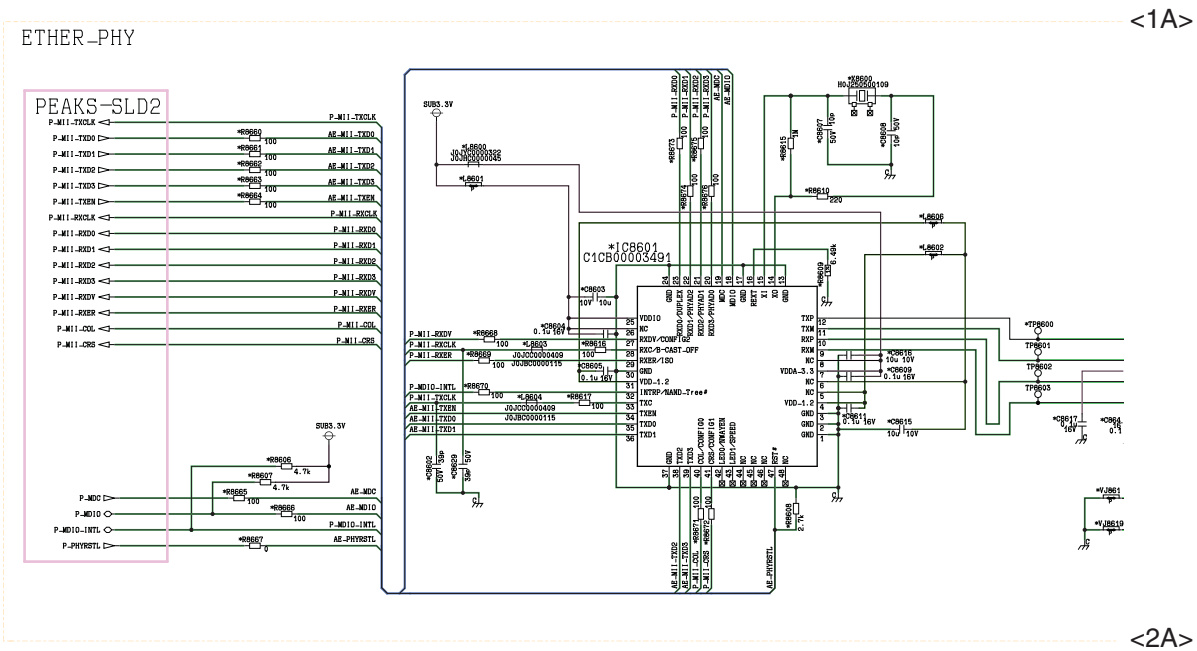






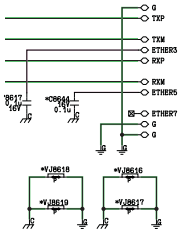
SHEET 300

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



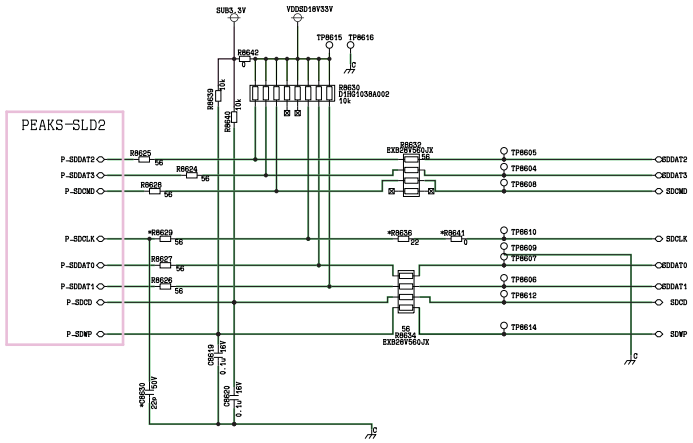
11.2.24. A Board - Sheet : 301 (2 / 3)

<1A>



<2A>

SD_CARD



USB <1B>

PE

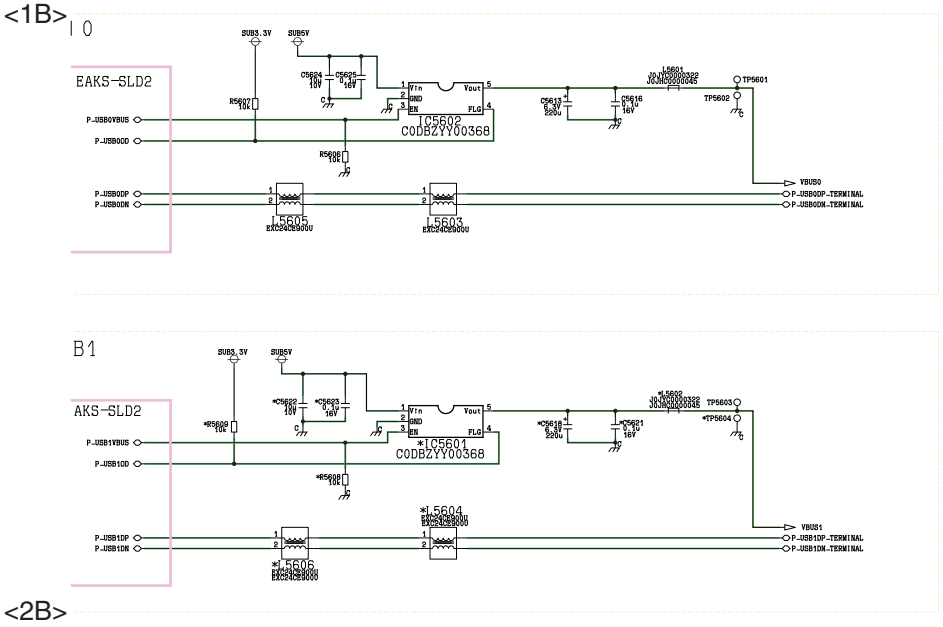
USE

PEA

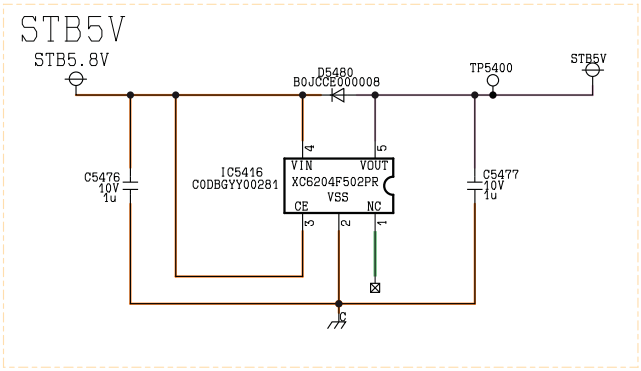
<2B>

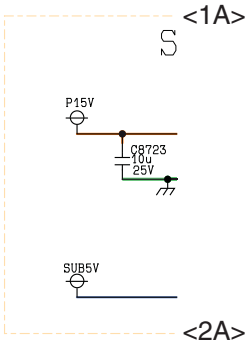
11.2.25. A Board - Sheet : 301 (3 / 3)

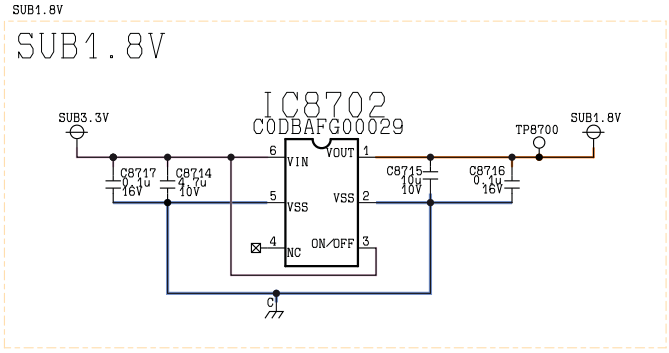
SHEET 301

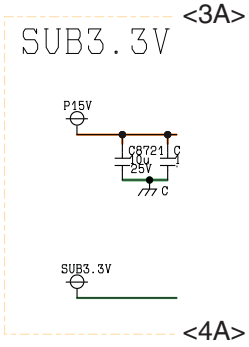


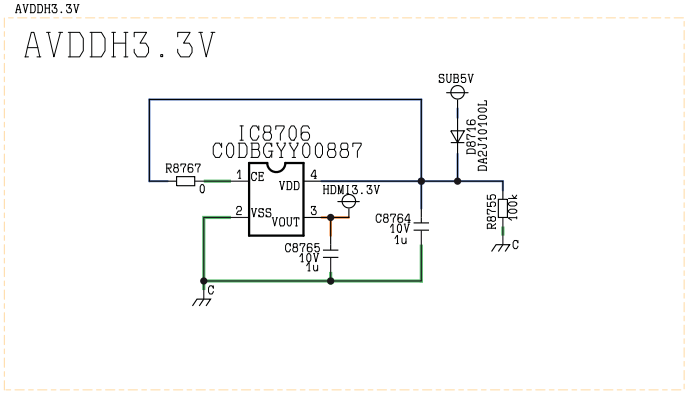
11.2.26. A Board - Sheet : 302 (1 / 2)



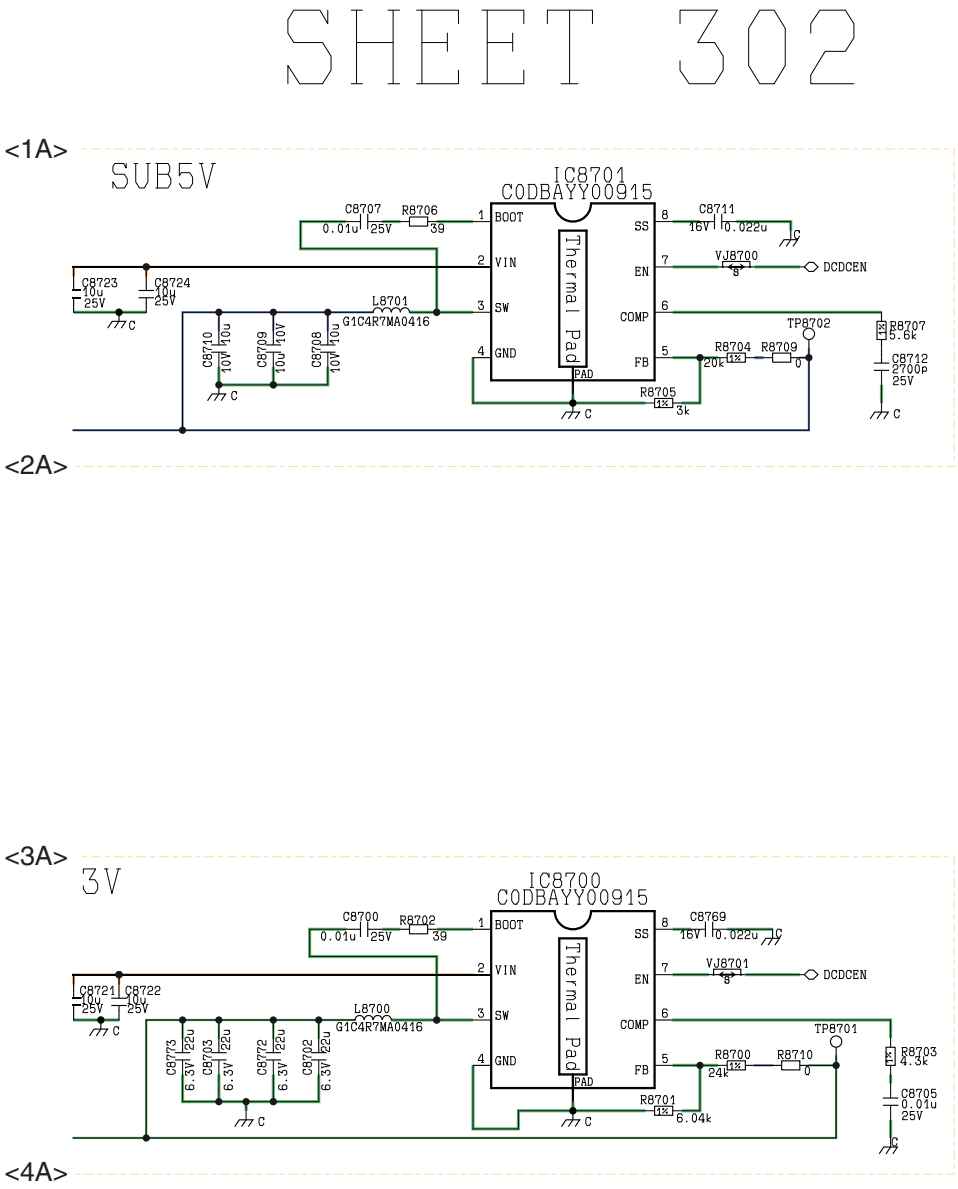






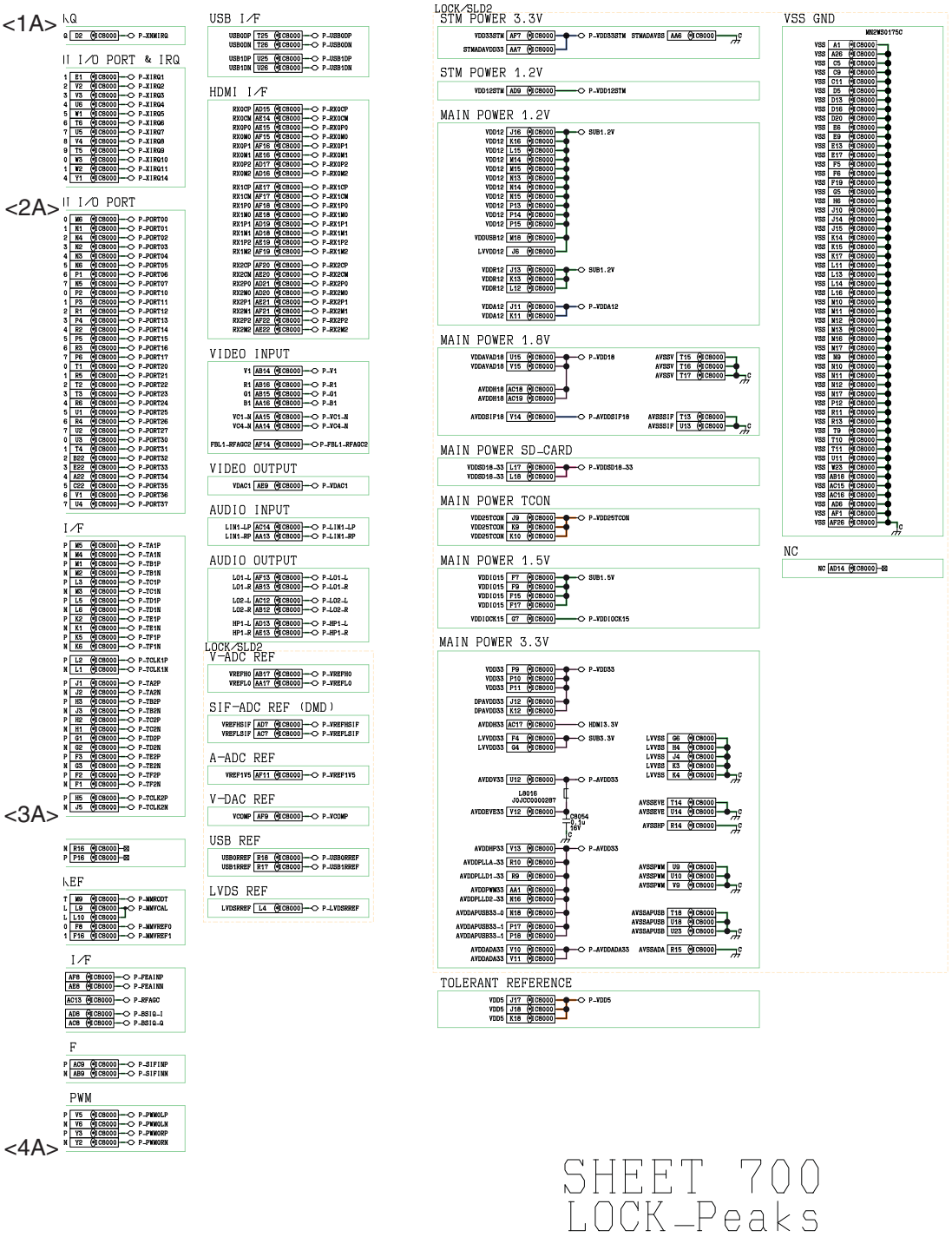


11.2.27. A Board - Sheet : 302 (2 / 2)

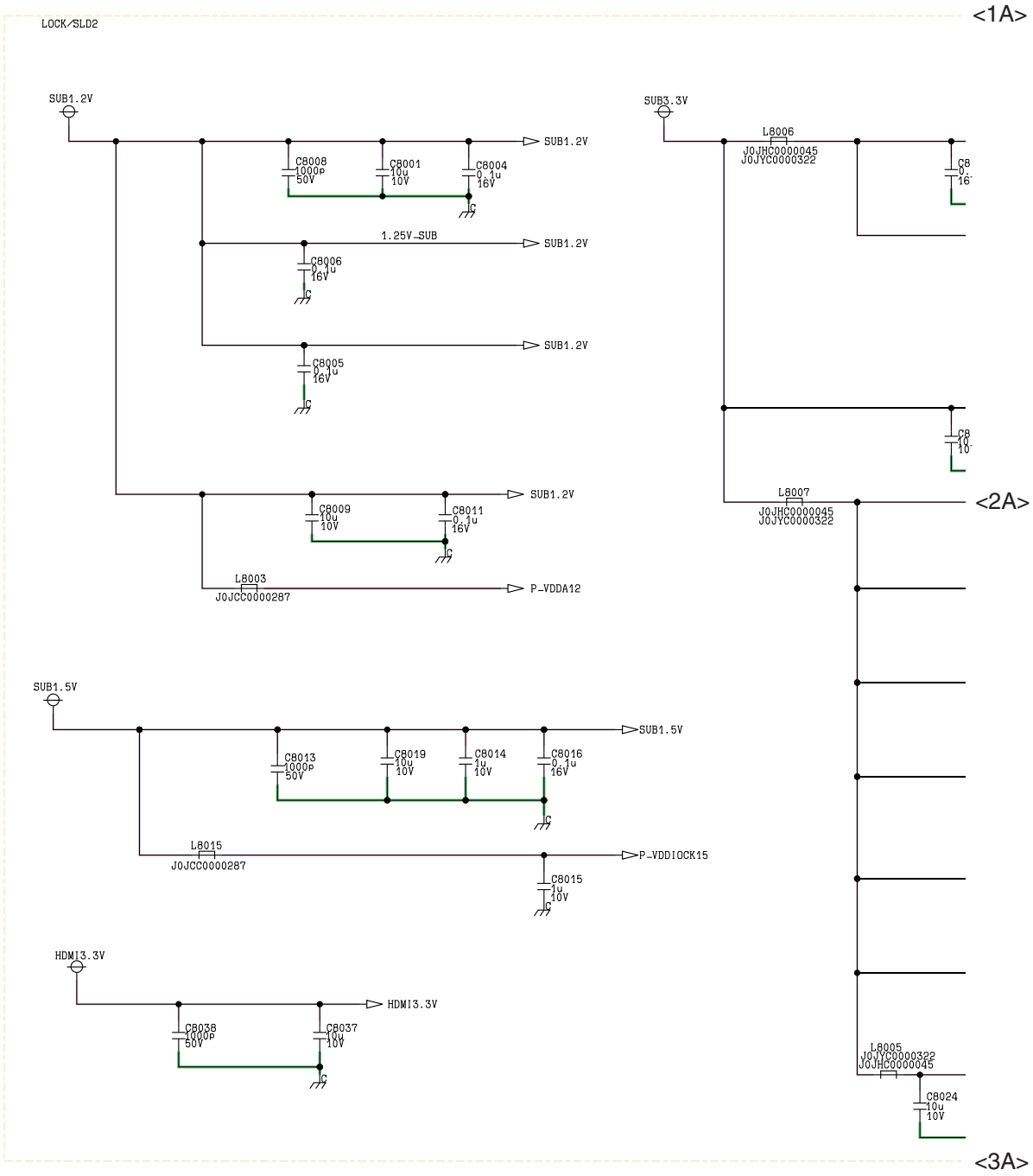


11.2.28. A Board - Sheet : 700 (1 / 2)

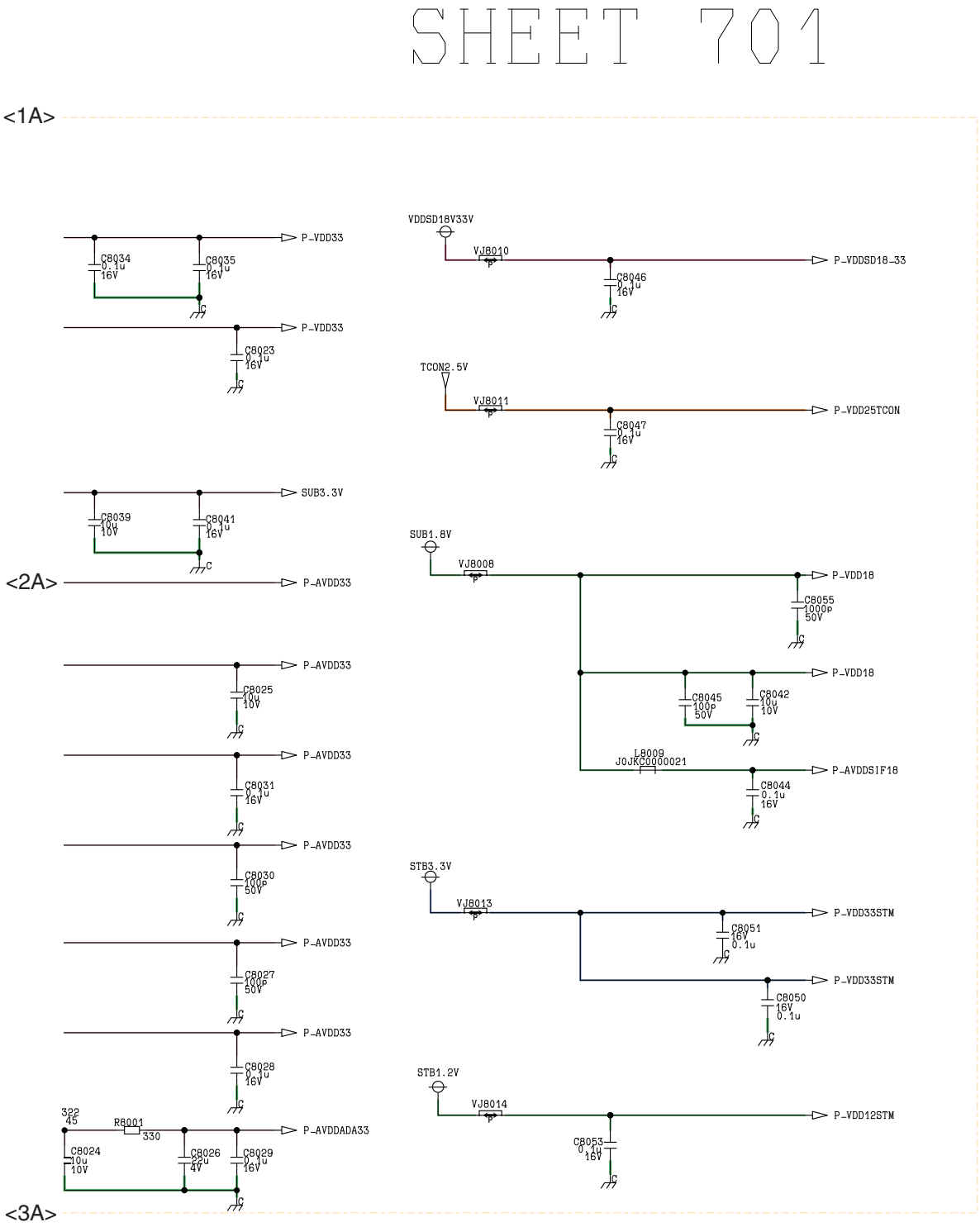
11.2.29. A Board - Sheet : 700 (2 / 2)



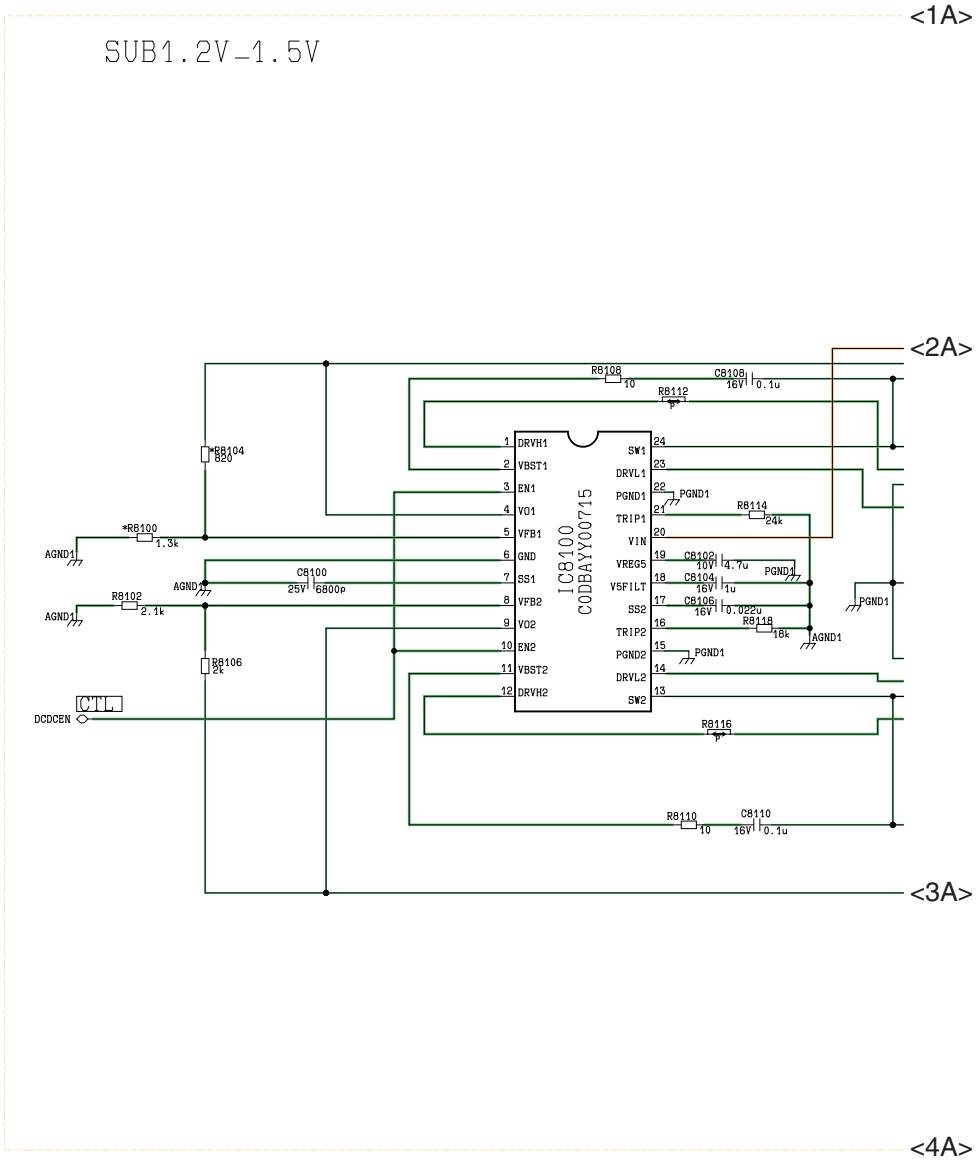
11.2.30. A Board - Sheet : 701 (1 / 2)



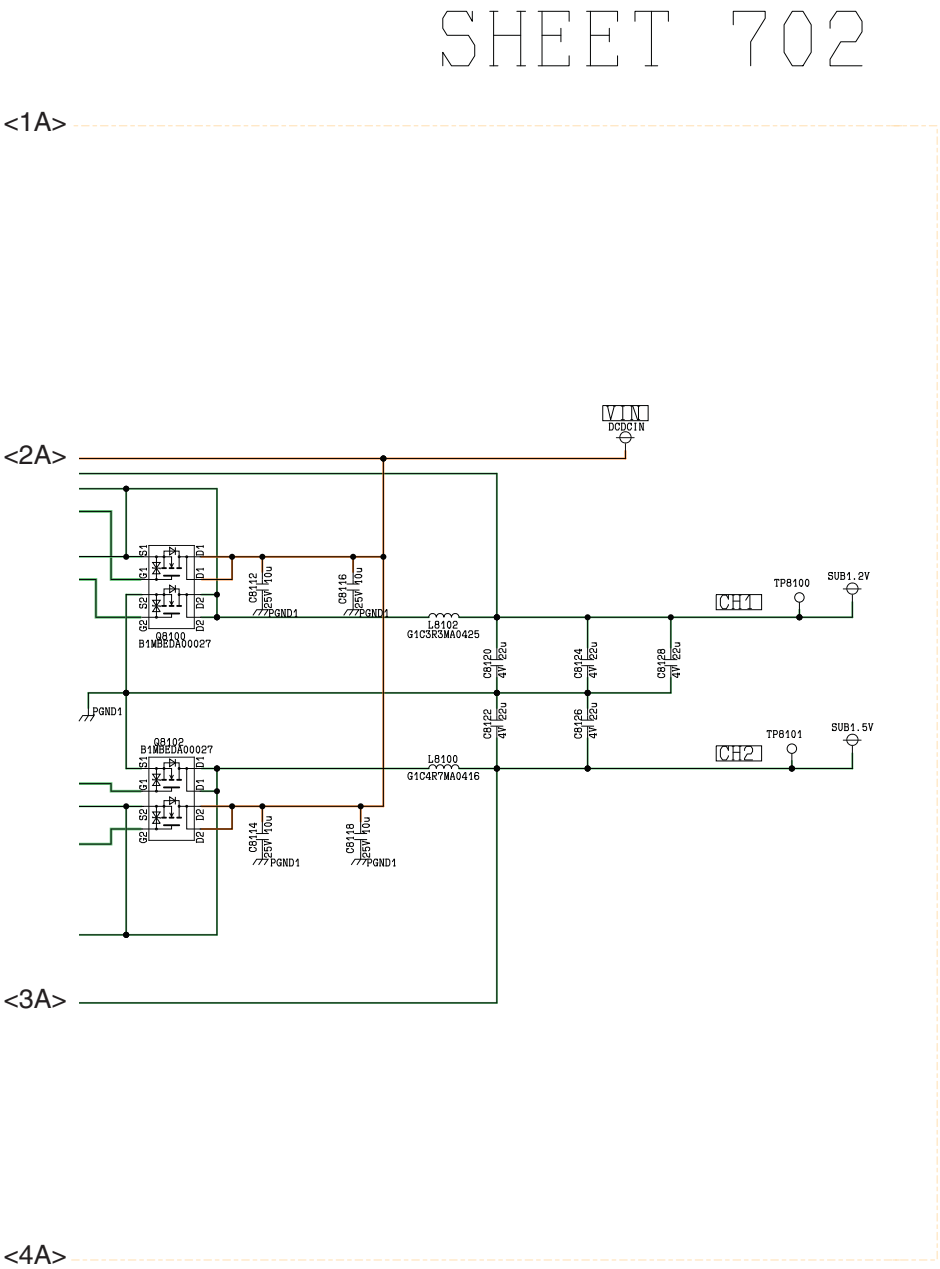
11.2.31. A Board - Sheet : 701 (2 / 2)



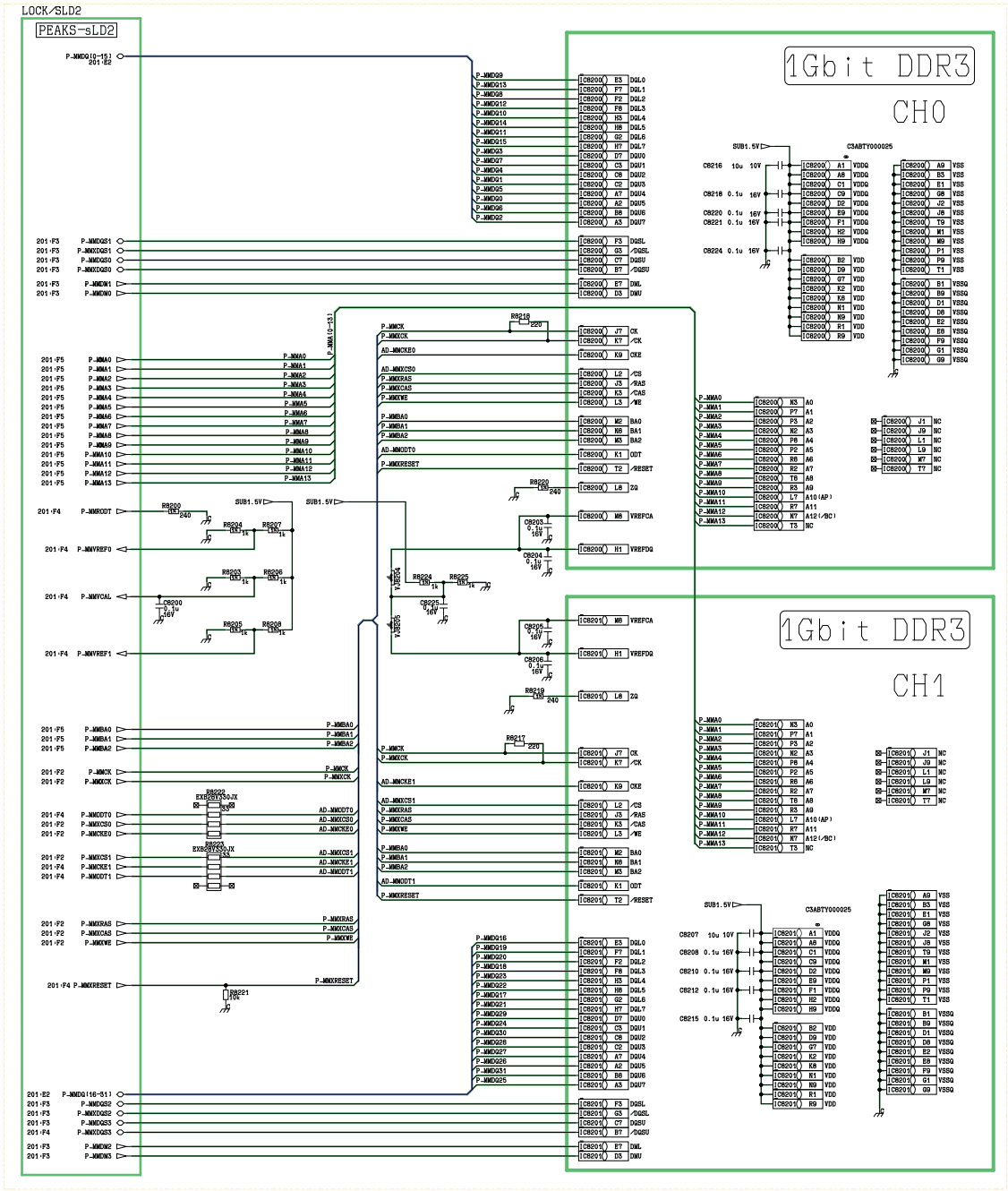
11.2.32. A Board - Sheet : 702 (1 / 2)



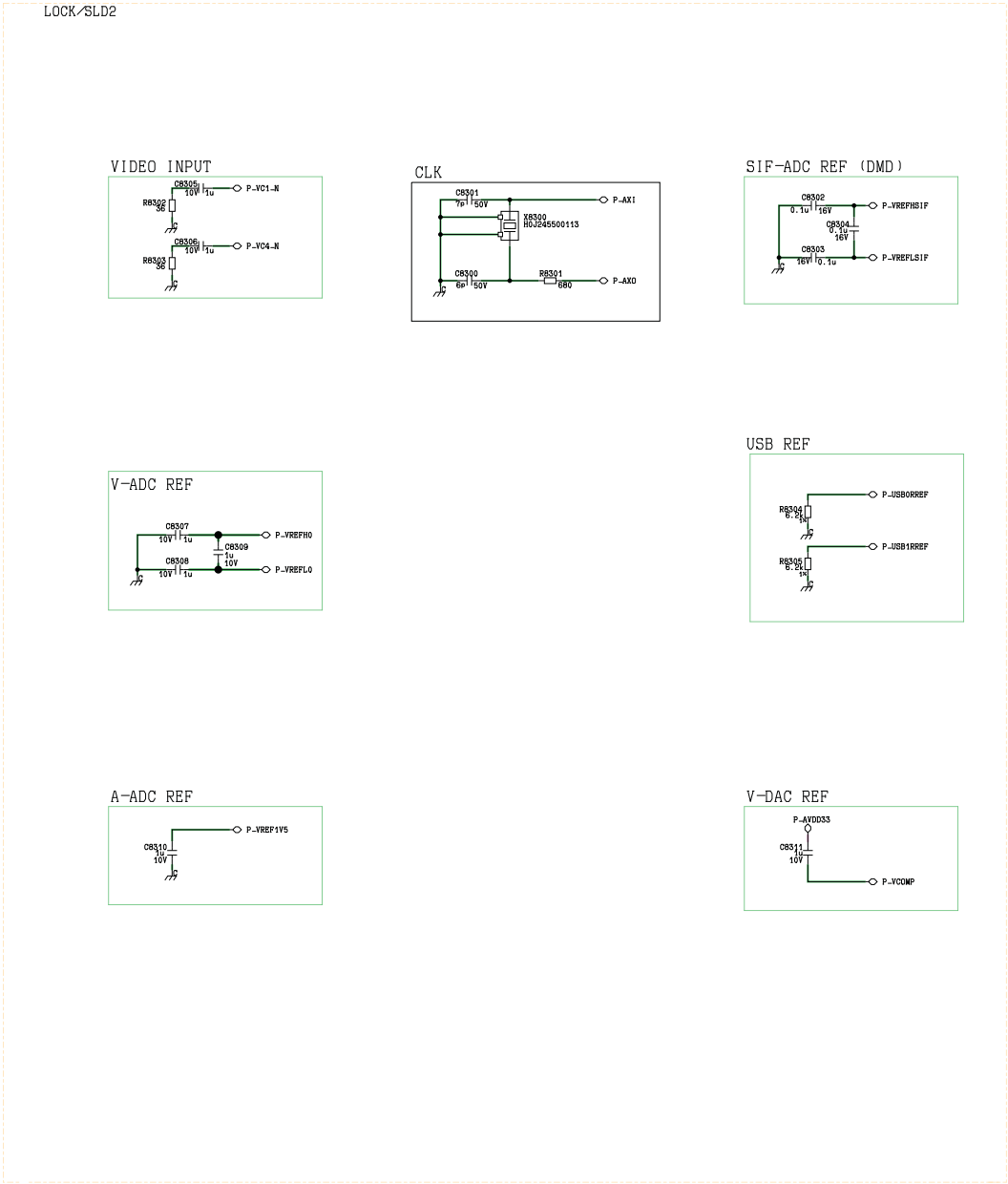
11.2.33. A Board - Sheet : 702 (2 / 2)



11.2.34. A Board - Sheet : 703 (1 / 1)

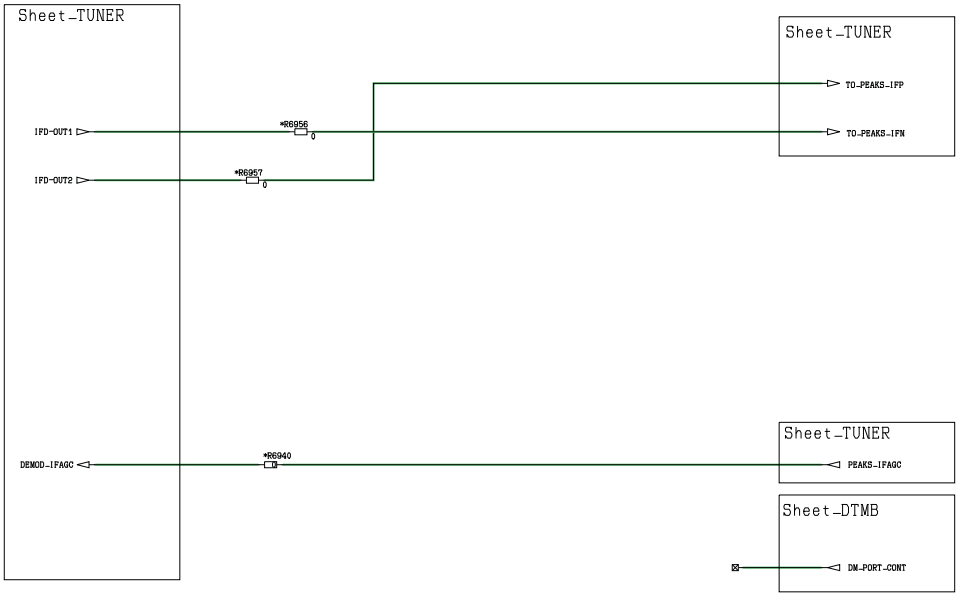


11.2.35. A Board - Sheet : 704 (1 / 1)



SHEET 704

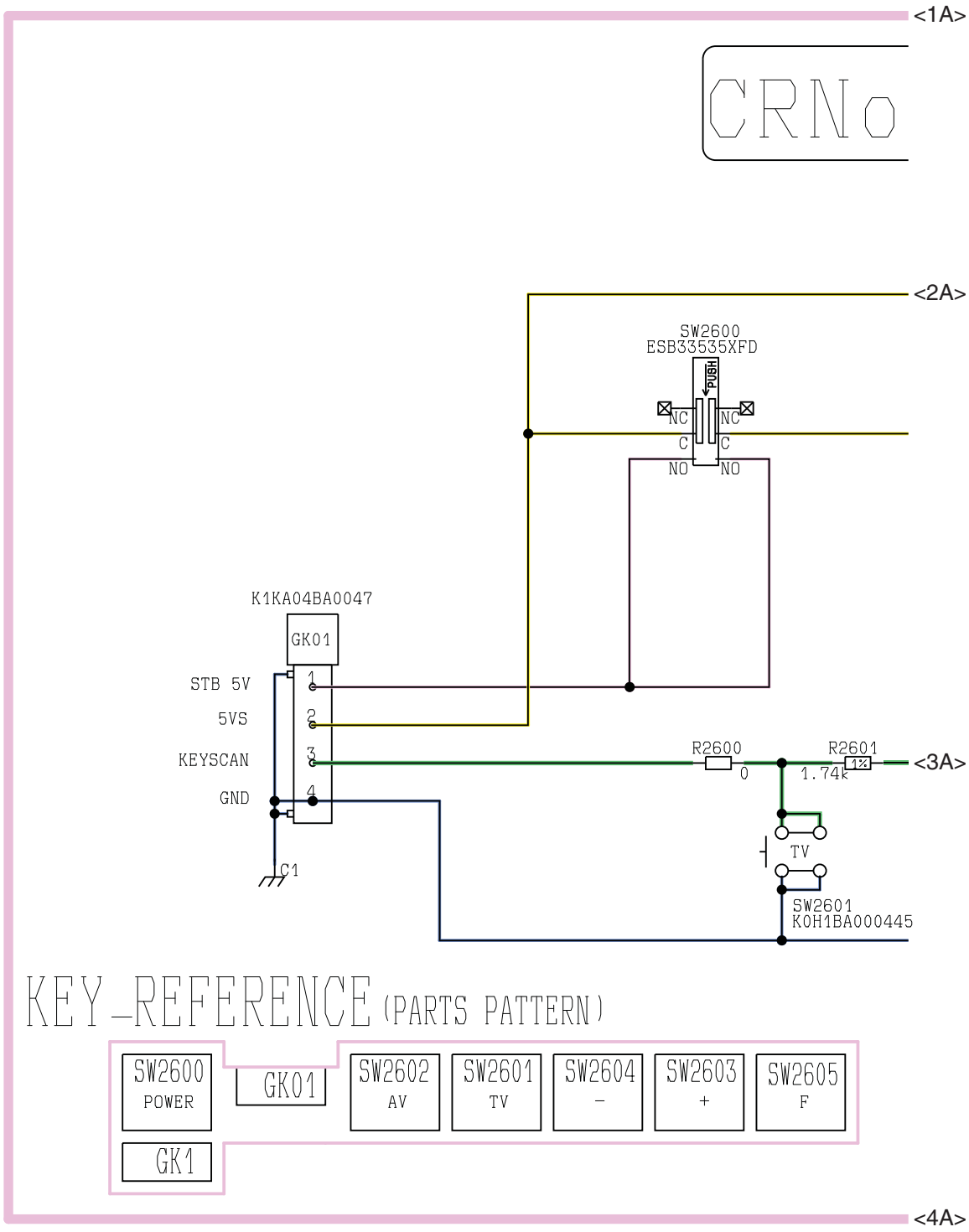
11.2.36. A Board - Sheet : 707 (1 / 1)



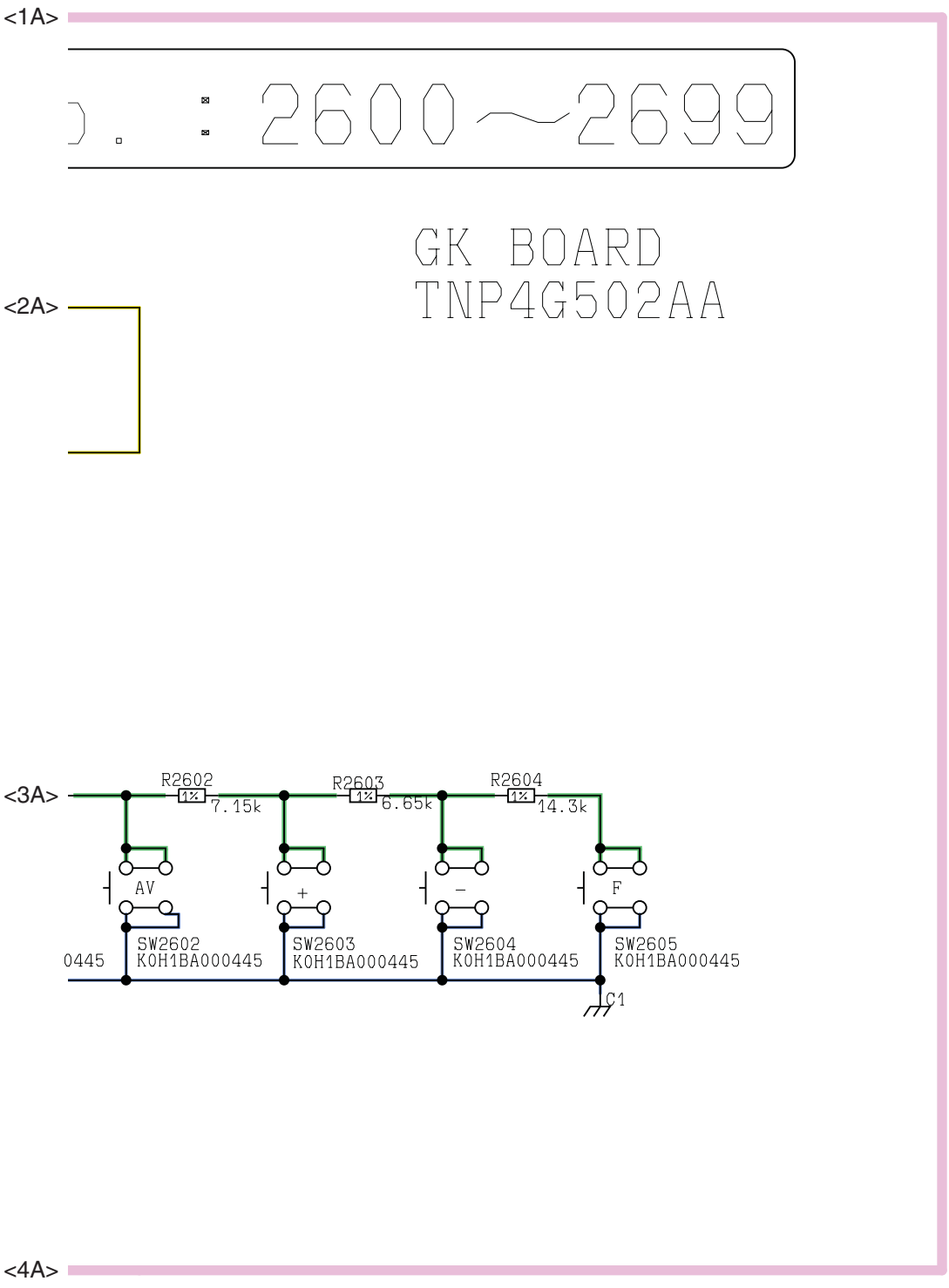
SHEET 707

11.3. GK Board

11.3.1. GK Board (1 / 2)

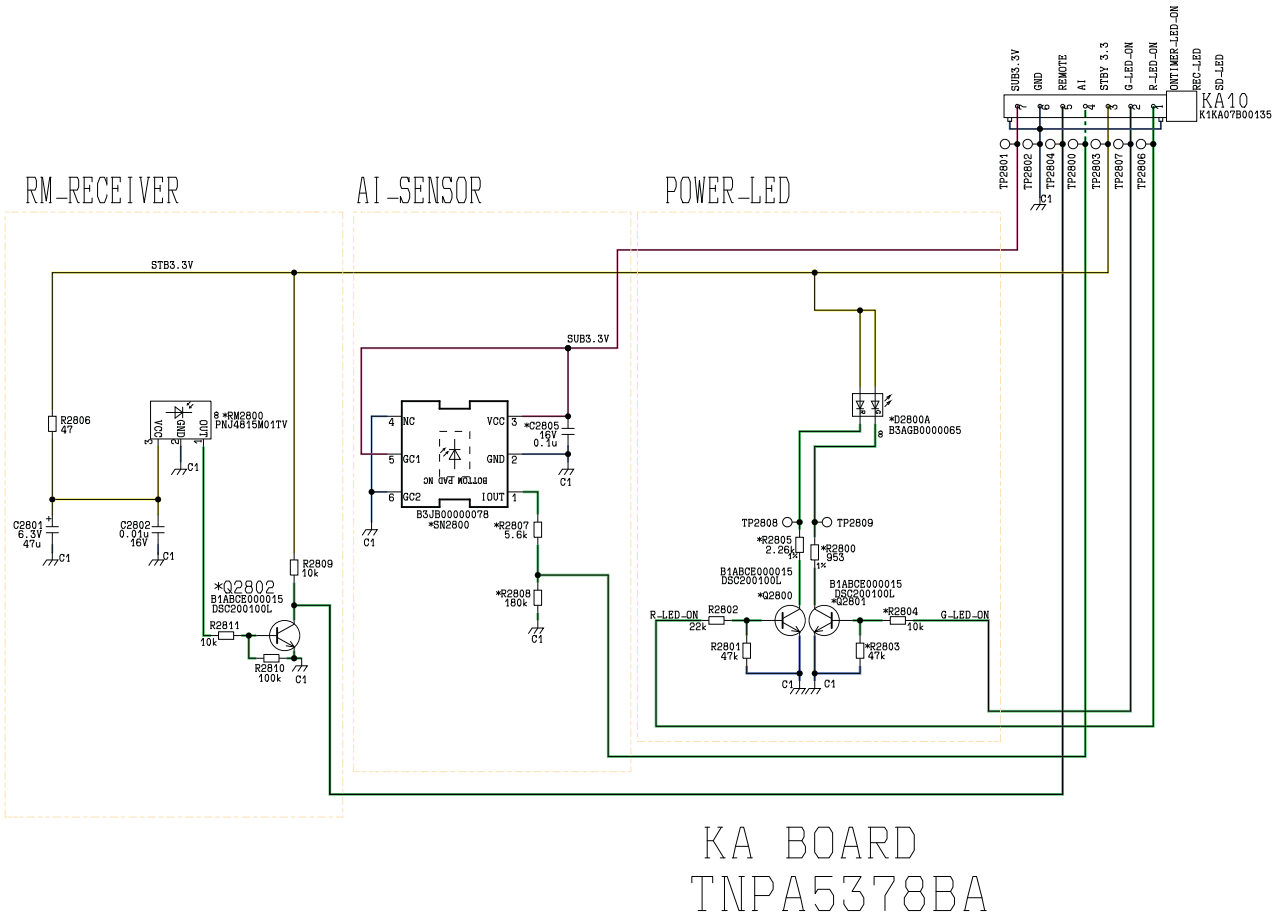


11.3.2. GK Board (2 / 2)



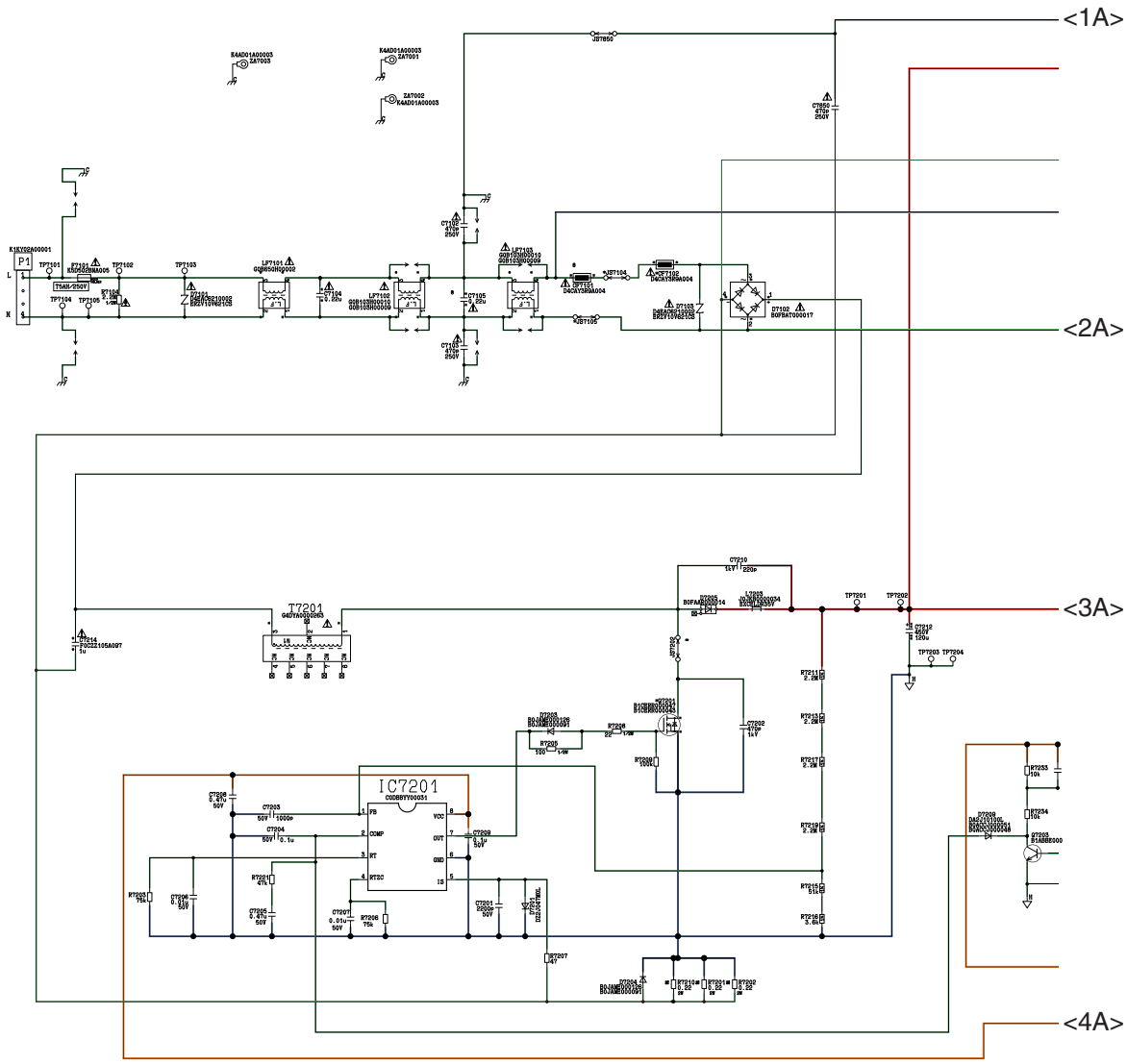
11.4. KA Board

11.4.1. KA Board (1 / 1)

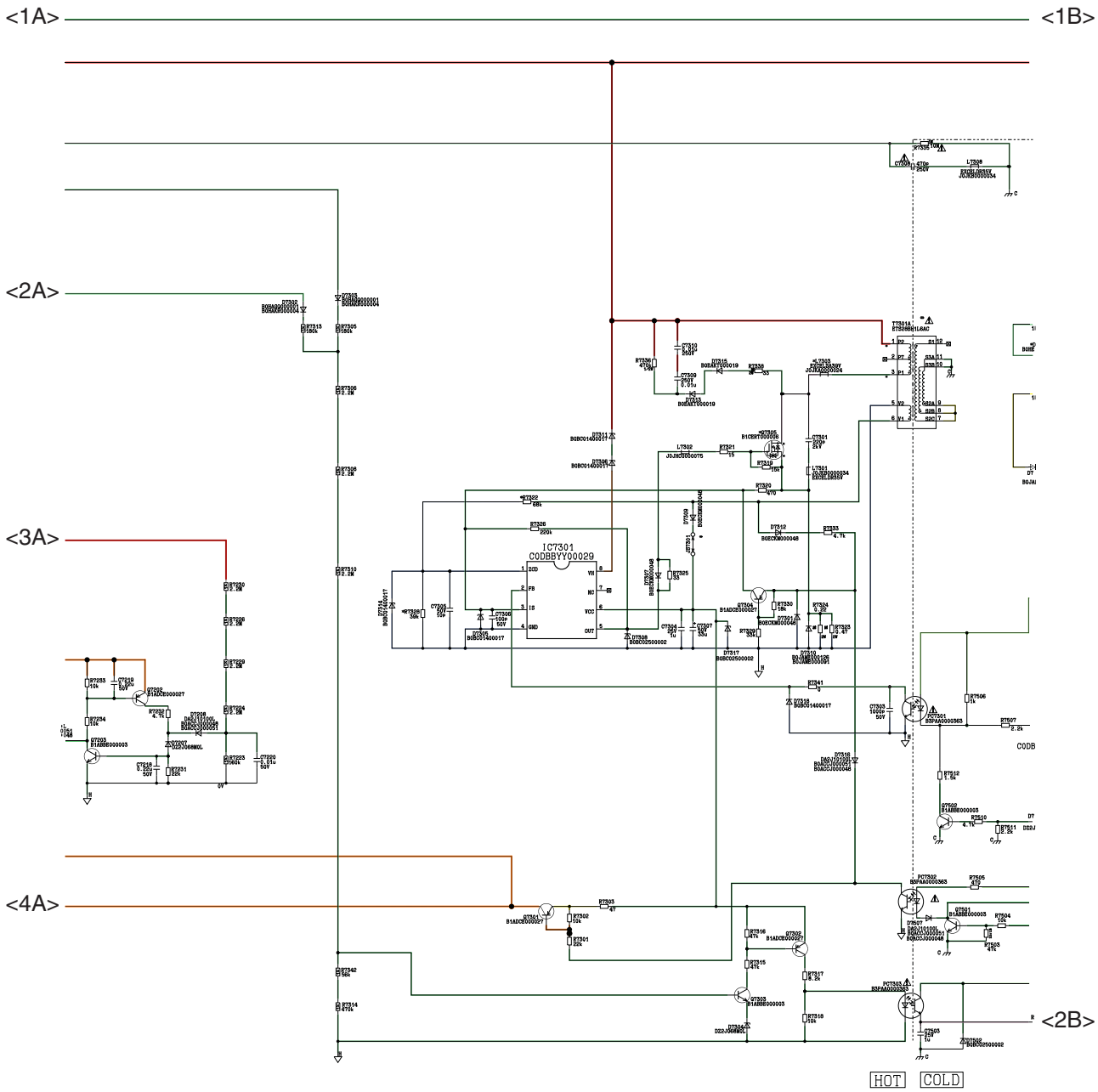


11.5. P Board

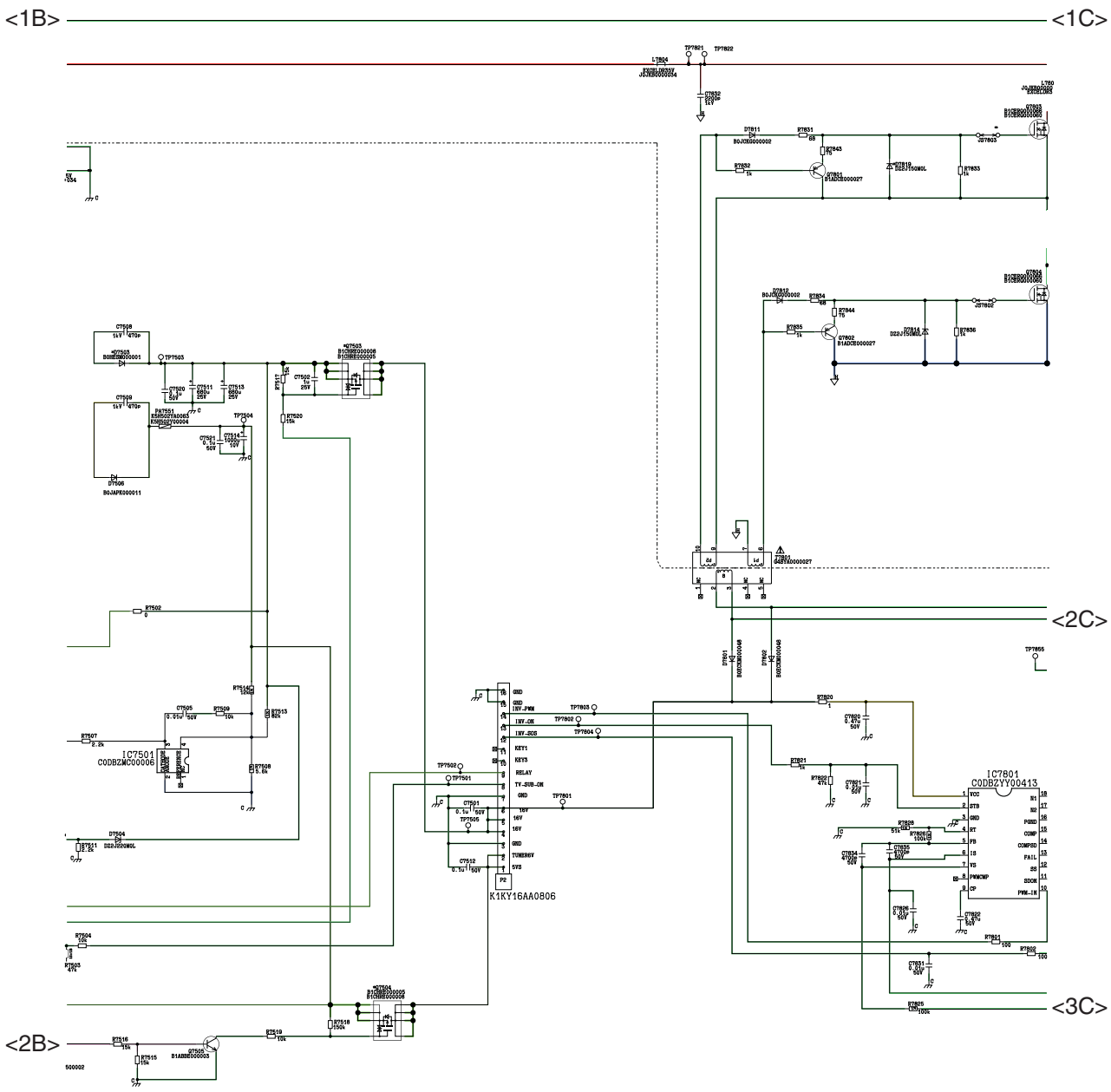
11.5.1. P Board (1 / 4)



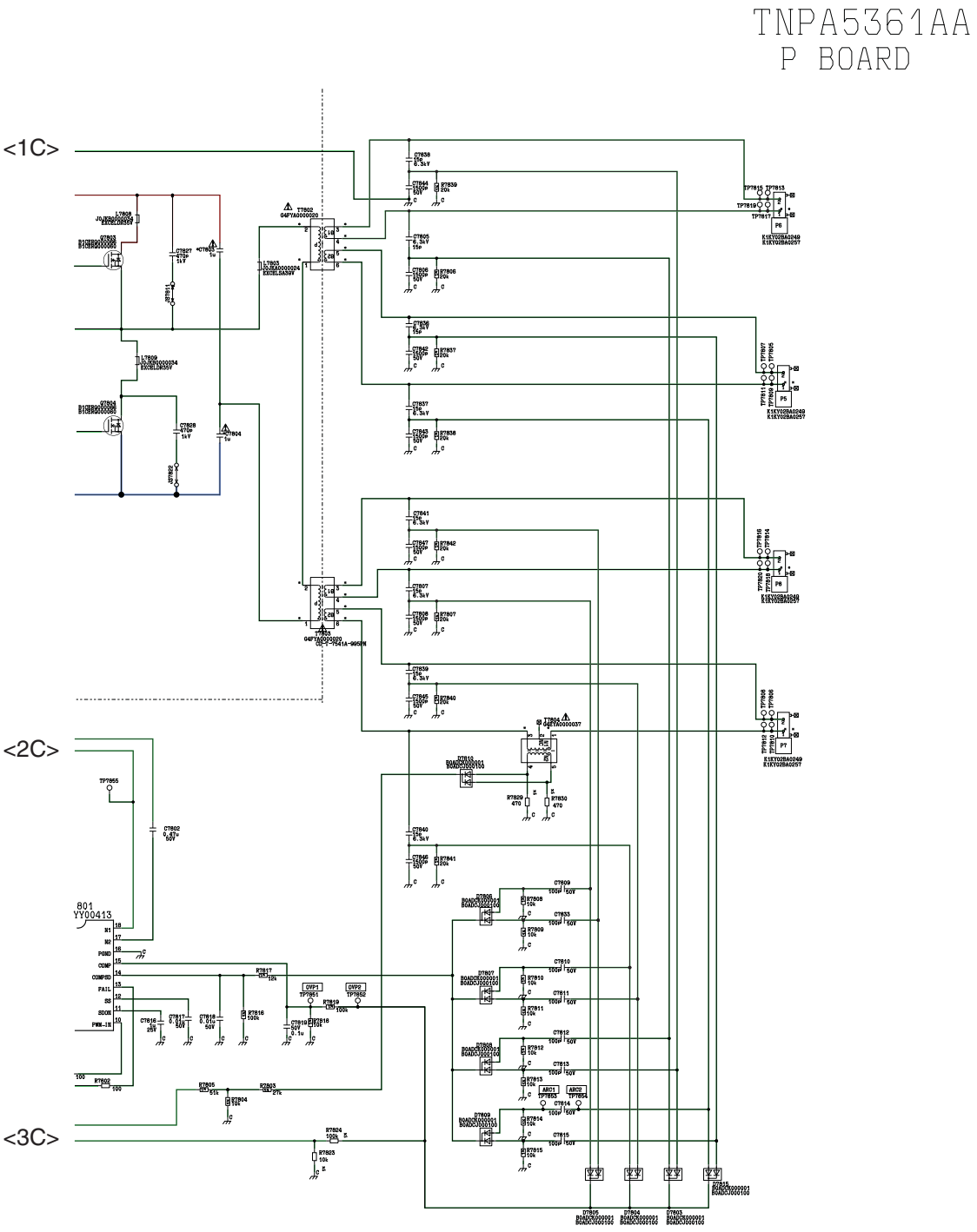
11.5.2. P Board (2 / 4)



11.5.3. P Board (3 / 4)



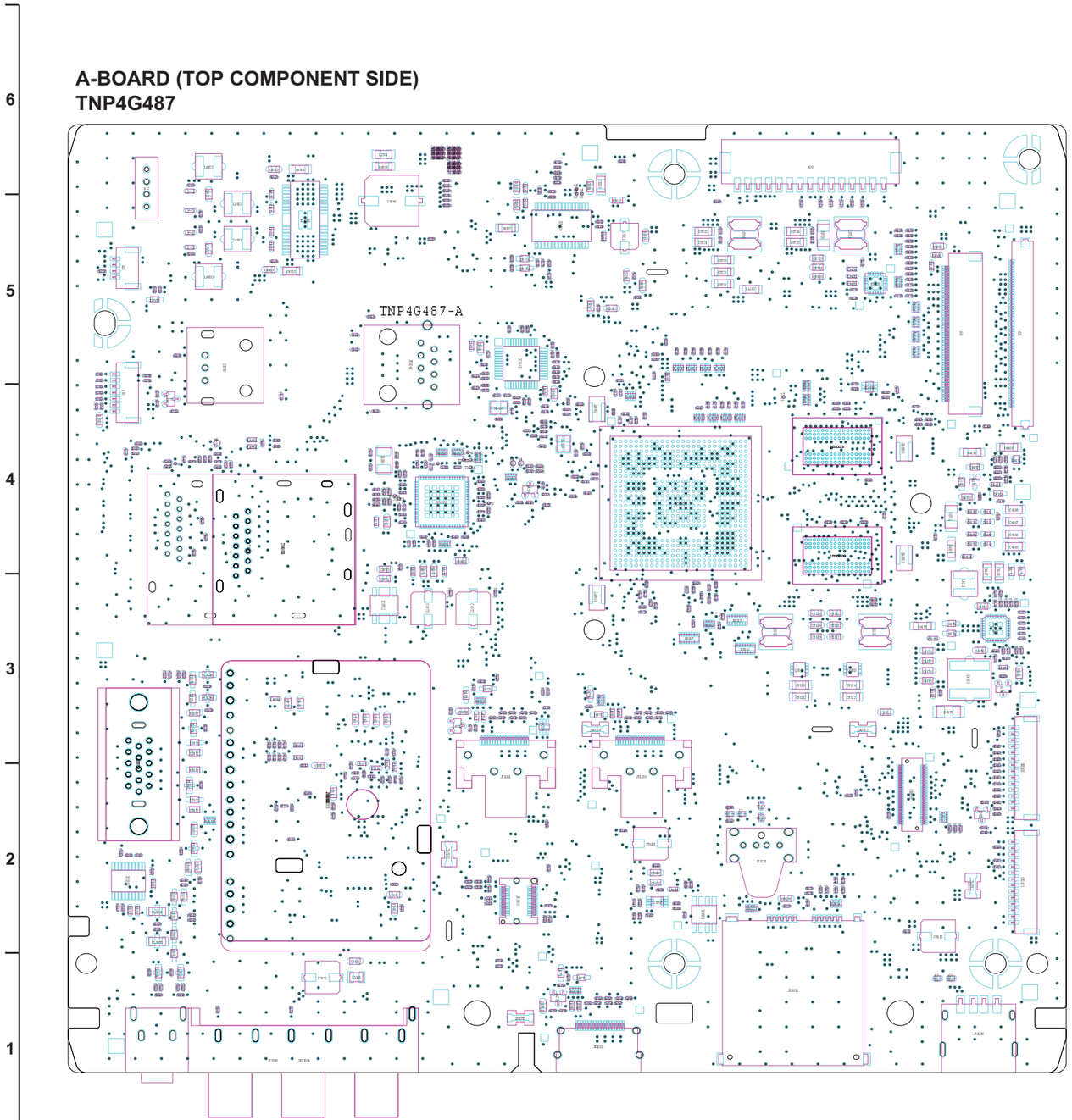
11.5.4. P Board (4 / 4)

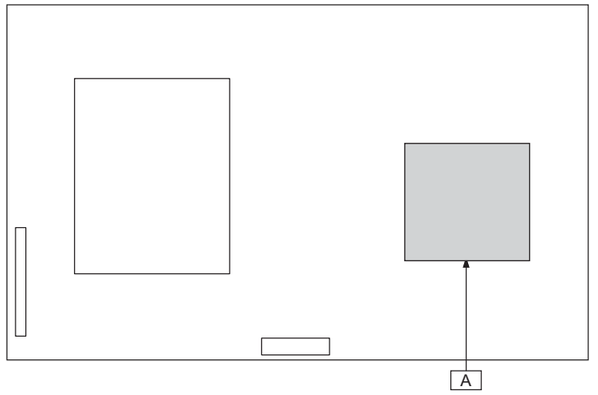


12 Printed Circuit Board

12.1. A-BOARD

A-BOARD (TOP COMPONENT SIDE)
TNP4G487

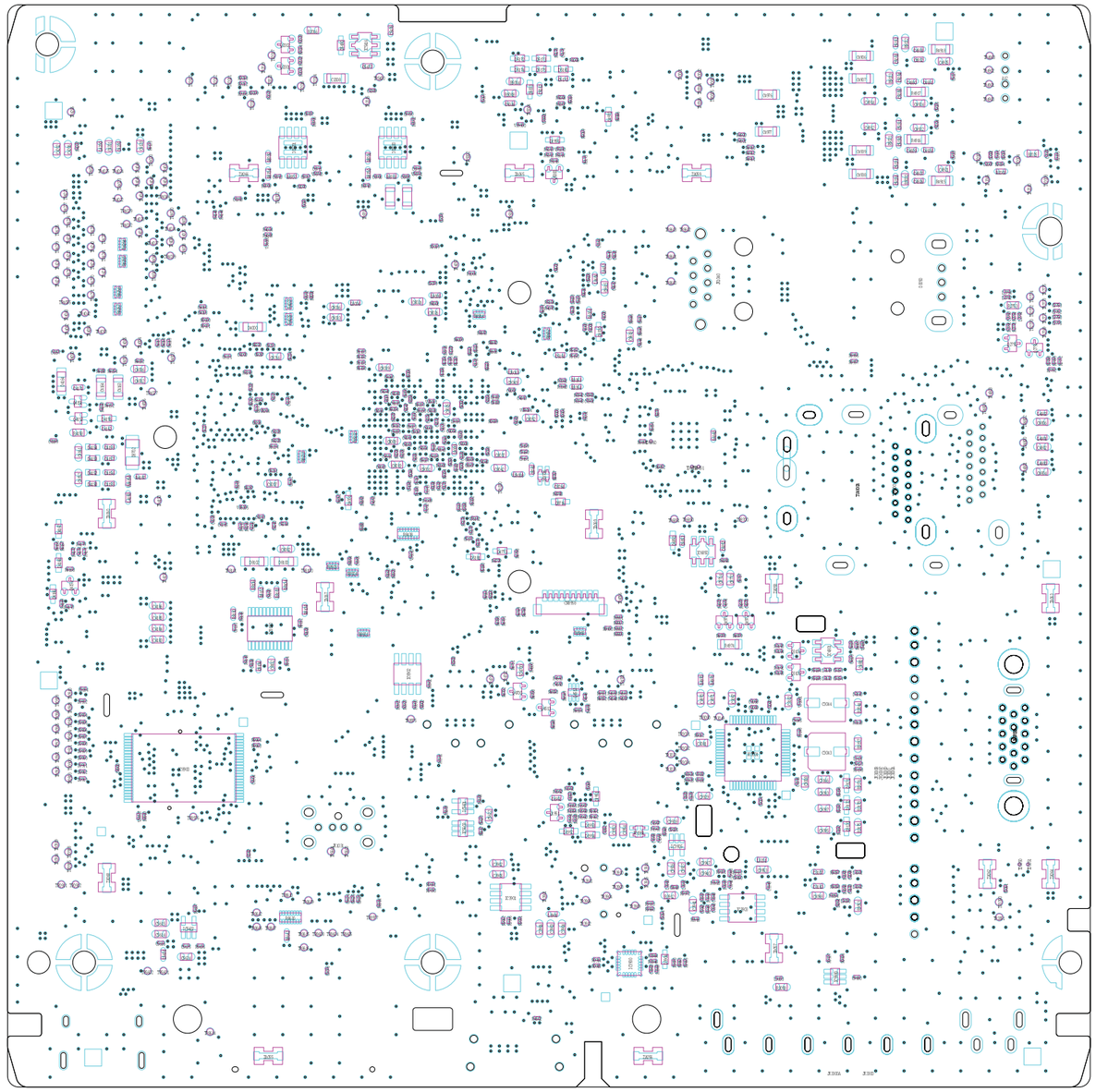


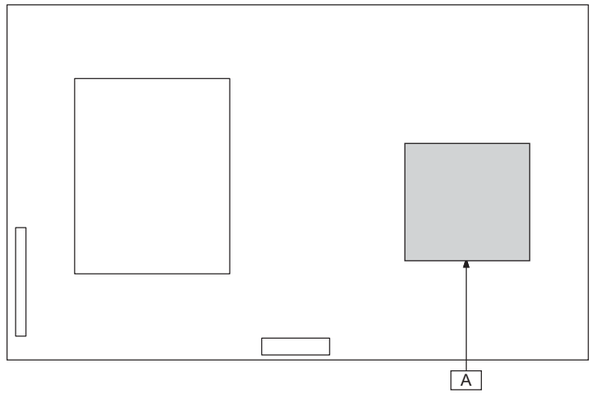


Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC3350	A2	D0901	F3	D4158	F4	D4726	C3
IC3902	D2	D0914	F2	D4159	F4	D4727	C3
IC4000	E4	D2003	A5	D4160	F4	D4728	C3
IC4120	E5	D2005	A5	D4161	F4	D4729	C3
IC4150	F3	D2756	A4	D4162	F4	D4730	C3
IC4900	B5	D2760	A4	D4163	F4	D4731	C3
IC5000	C5	D2762	A5	D4165	F4	D4732	C3
IC6851	C4	D2763	A4	D4169	E4	D4733	C3
IC8000	D4	D2764	A4	D4170	F4	D4742	C1
IC8200	E4	D2765	A4	D4171	F4	D4743	D1
IC8200-A	E4	D3050	B5	D4172	E3	D4744	D1
IC8200-B	E4	D3052	B2	D4173	E3	D4745	D1
IC8201	E4	D3105	A3	D4174	E3	D4746	D1
IC8201-A	E4	D3106	A3	D4175	E3	D4747	D1
IC8201-B	E4	D3107	A2	D4703	D3	D4748	D1
IC8601	C5	D3108	A2	D4704	D3	D4749	D1
IC8702	B3	D3109	A3	D4709	D3	D4771	C1
IC8901	D2	D3132	B2	D4710	D3	D4772	C1
		D3350	A2	D4711	D3	D5004	C6
		D3351	A1	D4712	D3	D5170	C5
		D3352	A2	D4713	D3	D5171	C5
		D3353	A2	D4714	D3	D5182	C6
		D3354	A2	D4715	D3	D8701	E4
		D3903	C2	D4716	D3	D8720	E5
		D4156	E4	D4720	C3		
		D4157	F4	D4721	C3		

A-BOARD (BOTTOM COMPONENT SIDE)
TNP4G487

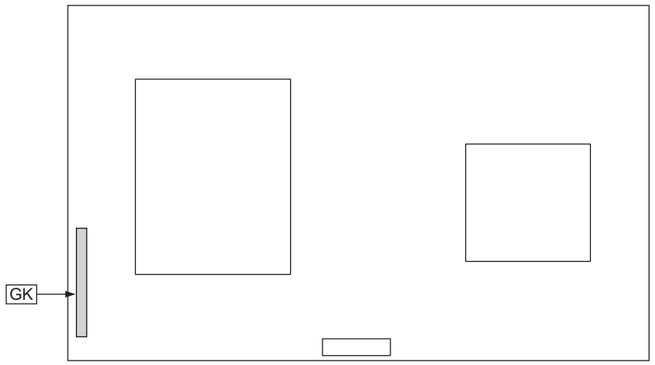




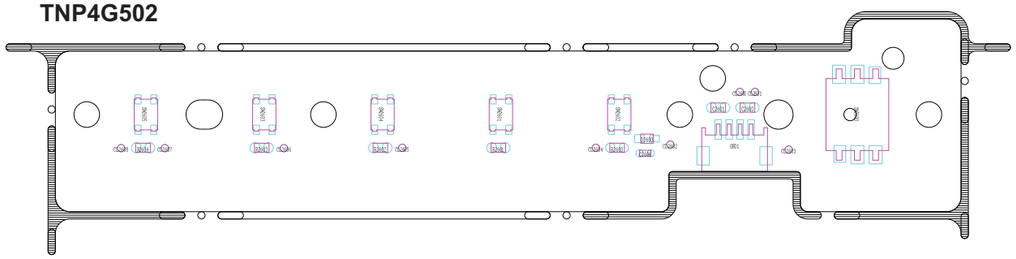
Parts Location

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	D4000	B4	D5181	C3
IC3905	D2	D0908	A2	D4001	B3	D5480	B6
IC4801	E3	D0909	A2	D4150	A4	D6850	D3
IC5416	B6	D0910	A2	D4152	A4	D8100	B3
IC5601	C2	D0911	A2	D4153	A4	D8102	B3
IC5602	B1	D0912	A2	D4154	A4	D8702	A4
IC5603	C2	D0913	A2	D4155	A4	D8716	C3
IC6850	D3	D1000	D4	D4164	A4		
IC8100	B3	D1951	D2	D4166	A3		
IC8700	C5	D1952	C2	D4167	A3		
IC8701	B5	D1953	D2	D4168	A3		
IC8706	C4	D1954	D2	D4773	C3		
IC8900	B2	D1955	C5	D4970	D5		
IC8902	C3	D2001	E5	D5003	C5		
IC9980	E1	D3051	E2	D5172	C6		

12.2. GK-BOARD



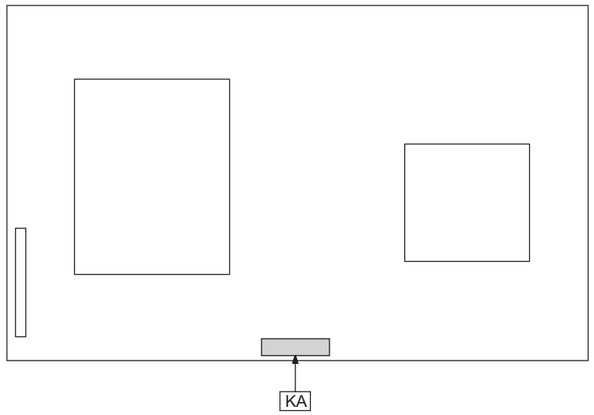
GK-BOARD
TNP4G502



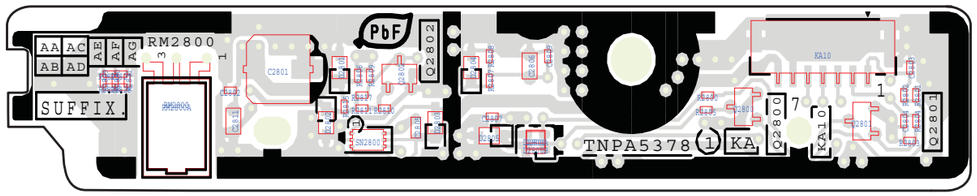
Parts Location

Ref.No	Location
D2600	E1

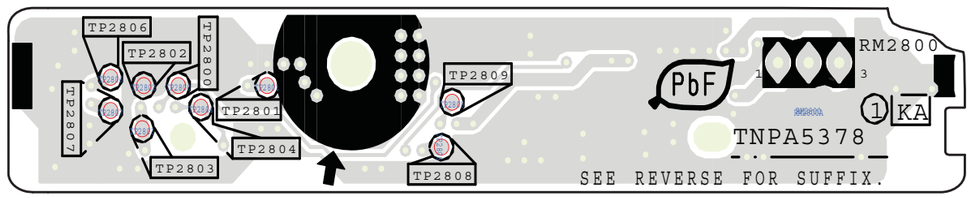
12.3. KA-BOARD



KA-BOARD (TOP COMPONENT SIDE)
TNPA5378



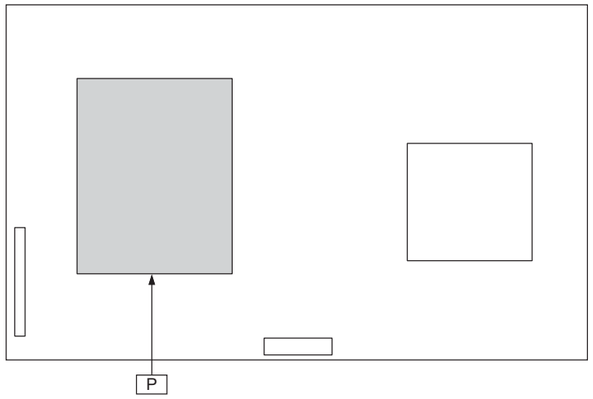
KA-BOARD (BOTTOM COMPONENT SIDE)
TNPA5378



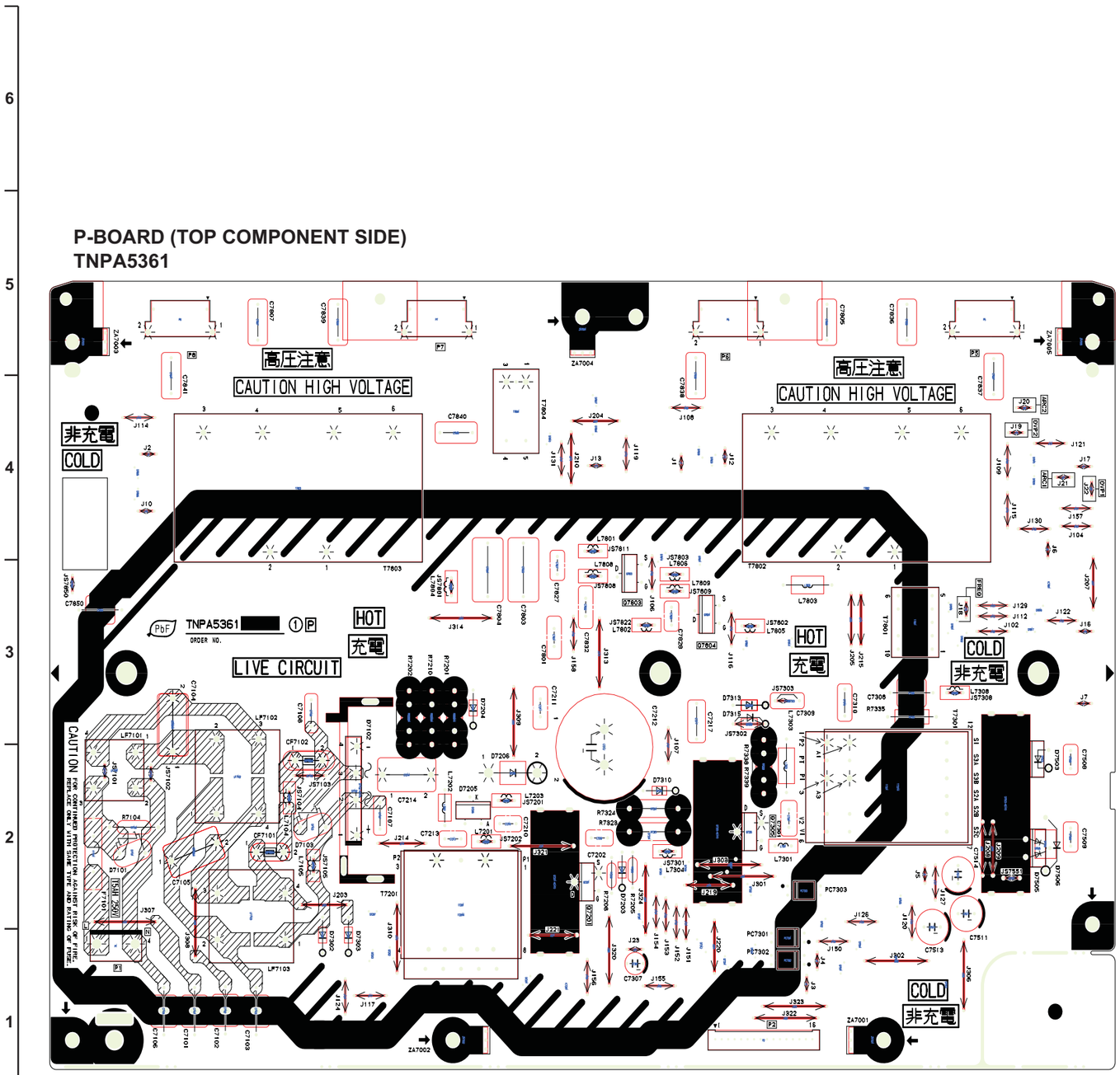
Parts Location

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

12.4. P-BOARD



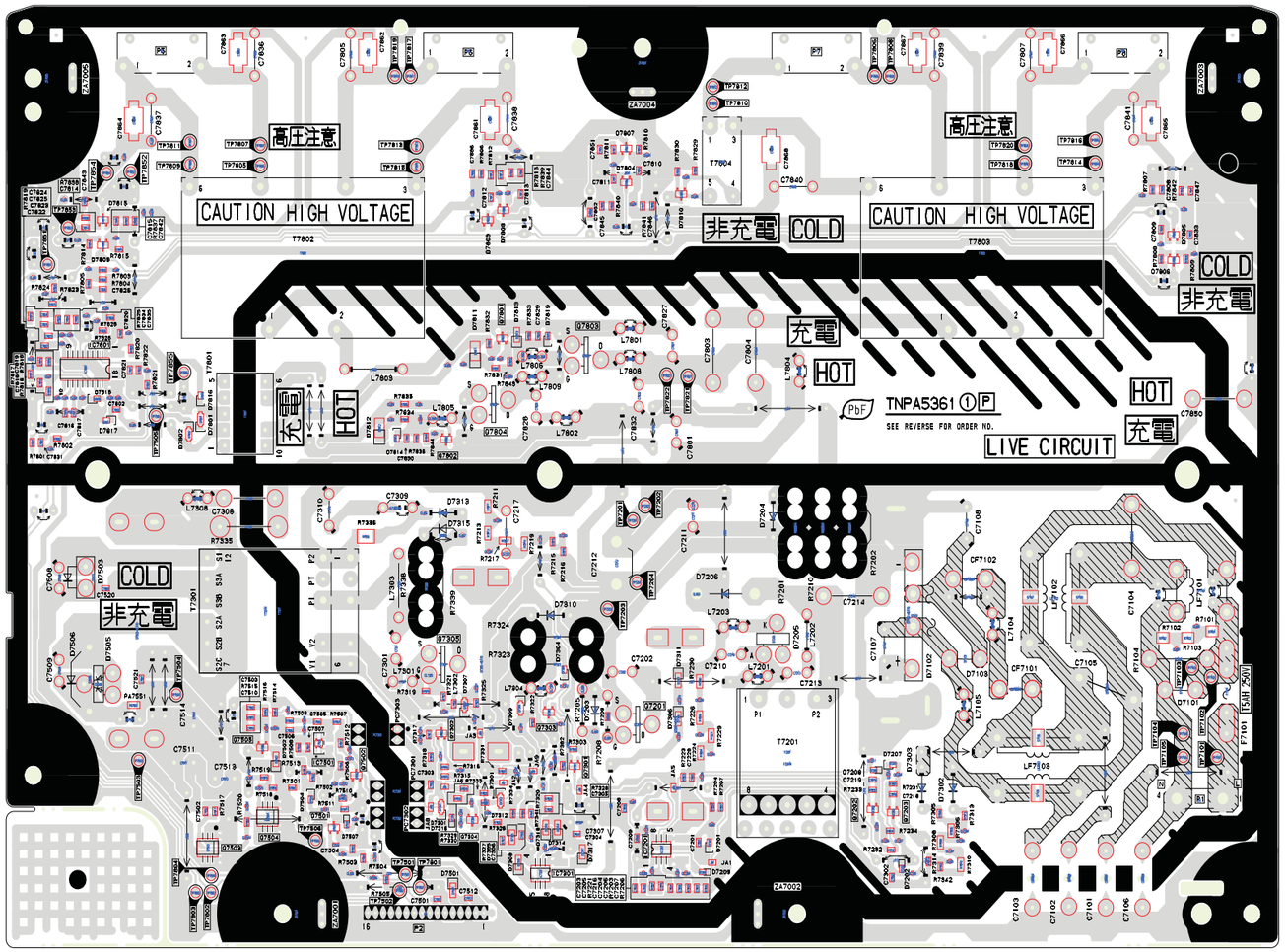
P-BOARD (TOP COMPONENT SIDE)
TNPA5361

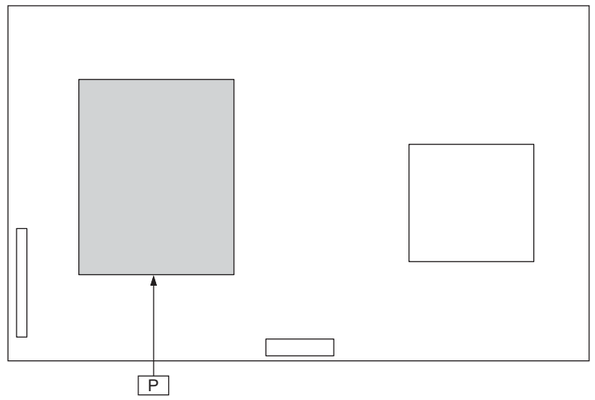


Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
D7101	A2	D7205	C2	D7304	D2	D7505	F2
D7102	B2	D7206	C2	D7310	D2	D7506	F2
D7103	B2	D7301	D1	D7313	D3	D7802	F3
D7203	D2	D7302	B1	D7315	D3	D7803	D4
D7204	C3	D7303	B1	D7503	F2		

P-BOARD (BOTTOM COMPONENT SIDE)
TNPA5361





Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7201	D1	D7101	F2	D7308	C1	D7802	A3
IC7301	C1	D7102	E2	D7309	C2	D7803	C4
IC7501	B2	D7103	E2	D7310	C2	D7804	C4
IC7801	A3	D7201	D1	D7311	D2	D7805	F4
		D7202	E1	D7312	C1	D7806	F4
		D7203	C2	D7313	C3	D7807	C4
		D7204	D3	D7314	C1	D7808	C4
		D7205	D2	D7315	C3	D7809	A4
		D7206	D2	D7316	C1	D7810	D4
		D7207	E1	D7317	C1	D7811	C4
		D7208	E1	D7318	C1	D7812	B3
		D7209	D1	D7501	C1	D7813	C4
		D7301	C1	D7502	B2	D7814	B3
		D7302	E1	D7503	A2	D7815	A4
		D7303	E1	D7504	B1	D7816	B3
		D7304	C2	D7505	A2	D7817	A3
		D7305	C1	D7506	A2	D7818	A3
		D7306	D2	D7507	B1	D7819	C4
		D7307	C2	D7801	B3		

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 Metal FIlm	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester Polyprop lene	F : ±1pF
	G : ±3pF
	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		
	C1000	F1G1E1030005	C 0.01UF , 25V	
	C2003	F1G1H1020008	C 1000PF , 50V	
	C2005	F1G1C104A077	C 0.1UF , 16V	
	C2007	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	F1J1A106A043	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	
	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	F1J1A106A087	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	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	
	C3173	F1J1A106A087	C 10UF , 10V	
	C4001	F1J1C475A217	C 4.7UF , 16V	
	C4002	F1J1A106A087	C 10UF , 10V	
	C4005	F1H1H103A219	C 0.01UF , 50V	
	C4006	F1J1A106A087	C 10UF , 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4120	F1H1H104A970	C 0.1UF , 16V	
	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	
	C4128	F1J1A106A087	C 10UF , 10V	
	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	
	C4150	F1J1E475A251	C 4.7UF , 25V	
	C4151	F1G1C104A077	C 0.1UF , 16V	
	C4152	F1J1E105A231	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	F1J1E105A231	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	F1J1C475A170	C 4.7UF , 16V	
	C4176	F1J1C475A170	C 4.7UF , 16V	
	C4177	F1J1C475A170	C 4.7UF , 16V	
	C4178	F1J1C475A170	C 4.7UF , 16V	
	C4179	F1G1E472A086	C 4700PF , 25V	
	C4180	F1G1A105A047	C 1UF , 10V	
	C4181	F1J1E475A251	C 4.7UF , 25V	
	C4182	F1J1E475A251	C 4.7UF , 25V	
	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	F1J1A106A043	C 10UF , 10V	
	C4803	F1G1H1020008	C 1000PF , 50V	
	C4804	F1J1A106A043	C 10UF , 10V	
	C4805	F1G1H1020008	C 1000PF , 50V	
	C4806	F1J1A106A043	C 10UF , 10V	
	C4809	F1G1C104A077	C 0.1UF , 16V	
	C4810	F1G1C104A077	C 0.1UF , 50V	
	C4811	F1G1C104A077	C 0.1UF , 50V	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	EEEHB0J221UP	C 220UF , 6.3V	
	C5616	F1G1C104A077	C 0.1UF , 16V	
	C5618	EEEHB0J221UP	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	
	C7201	F1J1H222A721	C 2200PF , 50V	
	C7202	F1A3A471A060	C 470PF , 1kV	
	C7203	F1J1H102A721	C 1000PF , 50V	
	C7204	F1J1H104A717	C 0.1UF , 50V	
	C7205	F1J1H474A757	C 0.47UF , 50V	
	C7206	F1J1H103A834	C 0.01UF , 50V	
	C7207	F1J1H103A834	C 0.01UF , 50V	
	C7208	F1J1H474A757	C 0.47UF , 50V	
	C7209	F1J1H104A717	C 0.1UF , 50V	
	C7210	F1A3A221A060	C 220PF , 1kV	
⚠	C7212	F2A2W121A220	C 120UF , 450V	
	C7214	F0CZZ105A097	C 1UF , 50V	
	C7218	F1J1H2240009	C 0.22UF , 50V	
	C7219	F1J1H2240009	C 0.22UF , 50V	
	C7220	F1J1H103A834	C 0.01UF , 50V	
	C7301	F1B3D221A099	C 220PF , 2kV	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7303	F1J1H102A721	C 1000PF , 50V	
	C7304	F1J1E105A231	C 1UF , 25V	
	C7305	F1J1H100A631	C 10PF , 50V	
	C7306	F1J1H101A709	C 100PF , 50V	
	C7307	F2A1H330A122	E 33UF , 50V	
	C7308	F1A2E471A003	C 470PF , 250V	
	C7309	F0C2E103A284	F 0.01UF , 250V	
	C7310	F0C2E103A284	F 0.01UF , 250V	
	C7501	F1J1H104A717	C 0.1UF , 50V	
	C7502	F1J1E105A231	C 1UF , 25V	
	C7503	F1J1E105A231	C 1UF , 25V	
	C7505	F1J1H103A834	C 0.01UF , 50V	
	C7508	F1A3A471A060	C 470PF , 1kV	
	C7509	F1A3A471A060	C 470PF , 1kV	
	C7511	F2A1E681A100	E 680UF , 25V	
	C7512	F1J1H104A717	C 0.1UF , 50V	
	C7513	F2A1E681A100	E 680UF , 25V	
	C7514	F2A1A102A118	E 680UF , 25V	
	C7520	F1J1H104A717	C 0.1UF , 50V	
	C7521	F1J1H104A717	C 0.1UF , 50V	
	C7802	F1J1H474A757	C 0.47UF , 50V	
	C7803	F0CZZ105A097	C 1UF , 50V	
	C7804	F0CZZ105A097	C 1UF , 50V	
	C7805	F1B3J150A013	C 15PF , 6.3kV	
	C7806	F1J1H152A721	C 1500PF , 50V	
	C7807	F1B3J150A013	C 15PF , 6.3kV	
	C7808	F1J1H152A721	C 1500PF , 50V	
	C7809	F1J1H101A709	C 100PF , 50V	
	C7810	F1J1H101A709	C 100PF , 50V	
	C7811	F1J1H101A709	C 100PF , 50V	
	C7812	F1J1H101A709	C 100PF , 50V	
	C7813	F1J1H101A709	C 100PF , 50V	
	C7814	F1J1H101A709	C 100PF , 50V	
	C7815	F1J1H101A709	C 100PF , 50V	
	C7816	F1J1E105A231	C 1UF , 25V	
	C7817	F1J1H103A834	C 0.01UF , 50V	
	C7818	F1J1H103A834	C 0.01UF , 50V	
	C7819	F1J1H104A717	C 0.1UF , 50V	
	C7820	F1J1H474A757	C 0.47UF , 50V	
	C7821	F1J1H103A834	C 0.01UF , 50V	
	C7822	F1J1H474A757	C 0.47UF , 50V	
	C7826	F1J1H103A834	C 0.01UF , 50V	
	C7827	F1A3A471A060	C 470PF , 1kV	
	C7828	F1A3A471A060	C 470PF , 1kV	
	C7831	F1J1H103A834	C 0.01UF , 50V	
	C7832	F1A3A222A060	C 2200PF , 1kV	
	C7833	F1J1H101A709	C 100PF , 50V	
	C7834	F1J1H472A702	C 4700PF , 50V	
	C7835	F1J1H472A702	C 4700PF , 50V	
	C7836	F1B3J150A013	C 15PF , 6.3kV	
	C7837	F1B3J150A013	C 15PF , 6.3kV	
	C7838	F1B3J150A013	C 15PF , 6.3kV	
	C7839	F1B3J150A013	C 15PF , 6.3kV	
	C7840	F1B3J150A013	C 15PF , 6.3kV	
	C7841	F1B3J150A013	C 15PF , 6.3kV	
	C7842	F1J1H152A721	C 1500PF , 50V	
	C7843	F1J1H152A721	C 1500PF , 50V	
	C7844	F1J1H152A721	C 1500PF , 50V	
	C7845	F1J1H152A721	C 1500PF , 50V	
	C7846	F1J1H152A721	C 1500PF , 50V	
	C7847	F1J1H152A721	C 1500PF , 50V	
	C7850	F1A2E471A003	C 470PF , 250V	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	C8102	F1J1A475A087	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	F1J0G2260001	C 22UF , 4V	
	C8122	F1J0G2260001	C 22UF , 4V	
	C8124	F1J0G2260001	C 22UF , 4V	
	C8126	F1J0G2260001	C 22UF , 4V	
	C8128	F1J0G2260001	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	F1J1A106A087	C 10UF , 10V	
	C8208	F1G1C104A077	C 0.1UF , 16V	
	C8210	F1G1C104A077	C 0.1UF , 16V	
	C8212	F1G1C104A077	C 0.1UF , 16V	
	C8215	F1G1C104A077	C 0.1UF , 16V	
	C8216	F1J1A106A087	C 10UF , 10V	
	C8218	F1G1C104A077	C 0.1UF , 16V	
	C8220	F1G1C104A077	C 0.1UF , 16V	
	C8221	F1G1C104A077	C 0.1UF , 16V	
	C8224	F1G1C104A077	C 0.1UF , 16V	
	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	F1J1A106A087	C 10UF , 10V	
	C8604	F1G1C104A077	C 0.1UF , 16V	
	C8605	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8607	F1G1H100A565	C 100PF , 50V	
	C8608	F1G1H100A565	C 100PF , 50V	
	C8609	F1G1C104A077	C 0.1UF , 16V	
	C8611	F1G1C104A077	C 0.1UF , 16V	
	C8615	F1J1A106A087	C 10UF , 10V	
	C8616	F1J1A106A087	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	F1J1A106A087	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	F1K0J226A049	C 22UF , 6.3V	
	C8703	F1K0J226A049	C 22UF , 6.3V	
	C8705	F1G1E1030005	C 0.01UF , 25V	
	C8707	F1G1E1030005	C 0.01UF , 25V	
	C8708	F1J1A106A043	C 10UF , 10V	
	C8709	F1J1A106A043	C 10UF , 10V	
	C8710	F1J1A106A043	C 10UF , 10V	
	C8711	F1G1C223A081	C 0.022UF , 16V	
	C8712	F1G1E272A123	C 2700PF , 25V	
	C8714	F1J1A475A087	C 4.7UF , 10V	
	C8715	F1J1A106A087	C 10UF , 10V	
	C8716	F1G1C104A077	C 0.1UF , 16V	
	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	F1K0J226A049	C 22UF , 6.3V	
	C8773	F1K0J226A049	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	
		DIODES		
	D1000	B0JCCE000008	DIODE	
	D2005	EZJZ0V120JA	VARISTOR	
	D2800A	B3AGB0000065	LED	
	D3050	K7AAAY000006	DIODE	
	D4000	B0BC4R700020	DIODE	
	D4001	DA2J10100L	DIODE	
	D4150	B0JCDE000006	DIODE	
	D4151	B0JDCE000017	DIODE	
	D4152	B0JCDE000006	DIODE	
	D4153	B0JCDE000006	DIODE	
	D4154	B0JCDE000006	DIODE	
	D4155	DZ2J330M0L	DIODE	
	D4156	DA2J10100L	DIODE	
	D4157	DA2J10100L	DIODE	
	D4159	B0JCDE000006	DIODE	
	D4160	B0JCDE000006	DIODE	
	D4161	B0JCDE000006	DIODE	
	D4162	B0JCDE000006	DIODE	
	D4163	DZ2J200M0L	DIODE	
	D4165	B0BC01000035	DIODE	
	D4166	DA2J10100L	DIODE	
	D4167	DA2J10100L	DIODE	
	D4168	DA2J10100L	DIODE	
	D4169	B0BC4R700020	DIODE	
	D4170	DZ2J047M0L	DIODE	
	D4171	DA2J10100L	DIODE	
	D4172	B0JCPE000004	DIODE	
	D4173	B0BC01700030	DIODE	
	D4174	B0BC022A0007	DIODE	
	D4175	DA2J10100L	DIODE	
	D4704	B0JCCD000020	DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D4721	B0JCCD000020	DIODE	
	D4772	B0JCCD000020	DIODE	
	D4773	B0JCCE000008	DIODE	
	D5172	B0BC01700015	DIODE	
	D5173	DA2J10100L	DIODE	
	D5174	B0BC010A0007	DIODE	
	D5175	DA2J10100L	DIODE	
	D5180	DZ2J033M0L	DIODE	
	D5480	B0JCCE000008	DIODE	
⚠	D7101	D4EAC6210002	VARISTOR	
	D7102	B0FBAT000017	DIODE	
⚠	D7103	D4EAC6210002	VARISTOR	
	D7203	B0JAME000126	DIODE	
	D7204	B0JAME000126	DIODE	
	D7205	B0FAAR000014	DIODE	
	D7207	DZ2J068M0L	DIODE	
	D7208	DA2J10100L	DIODE	
	D7209	DA2J10100L	DIODE	
	D7301	B0ECKM000053	DIODE	
	D7302	B0HAGQ000001	DIODE	
	D7303	B0HAGQ000001	DIODE	
	D7304	DZ2J068M0L	DIODE	
	D7305	B0BC01400017	DIODE	
	D7306	B0BC01400017	DIODE	
	D7307	B0ECKM000053	DIODE	
	D7308	B0BC02500002	DIODE	
	D7309	B0ECKM000053	DIODE	
	D7310	B0JAME000126	DIODE	
	D7311	B0BC01400017	DIODE	
	D7312	B0ECKM000053	DIODE	
	D7313	B0EAKT000019	DIODE	
	D7314	B0BC01400017	DIODE	
	D7315	B0EAKT000019	DIODE	
	D7316	DA2J10100L	DIODE	
	D7317	B0BC02500002	DIODE	
	D7318	B0BC01400017	DIODE	
	D7503	B0HESM000001	DIODE	
	D7504	DZ2J220M0L	DIODE	
	D7506	B0JAPK000011	DIODE	
	D7507	DA2J10100L	DIODE	
	D7801	B0ECKM000053	DIODE	
	D7802	B0ECKM000053	DIODE	
	D7803	B0ADCK000001	DIODE	
	D7804	B0ADCK000001	DIODE	
	D7805	B0ADCK000001	DIODE	
	D7806	B0ADCK000001	DIODE	
	D7807	B0ADCK000001	DIODE	
	D7808	B0ADCK000001	DIODE	
	D7809	B0ADCK000001	DIODE	
	D7810	B0ADCK000001	DIODE	
	D7811	B0JCKG000002	DIODE	
	D7812	B0JCKG000002	DIODE	
	D7814	DZ2J150M0L	DIODE	
	D7815	B0ADCK000001	DIODE	
	D7819	DZ2J150M0L	DIODE	
	D8716	DA2J10100L	DIODE	
		INTEGRATED CIRCUITS		
	IC3001	C1AB00003385	IC	
	IC4120	C0FBBY000086	IC	
	IC4150	C0DBAYY00868	IC	
	IC4900	C1AB00003457	IC	
	IC5000	AN34043A-VF	IC	
	IC5416	C0DBGYY00281	IC	
	IC5601	C0DBZYY00368	IC	
	IC5602	C0DBZYY00368	IC	
	IC7201	C0DBBYY00031	IC	
	IC7301	C0DBBYY00029	IC	
	IC7501	C0DBZMC00006	IC	
	IC7801	C0DBZYY00413	IC	
	IC8000	MN2WS0175C	IC	
	IC8100	C0DBAYY00715	IC	
	IC8200	C3ABTY000025	IC	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	IC8201	C3ABTY000025	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	
		COILS		
	L2001	J0JYC0000065	COIL	
	L2310	J0JHC0000078	BEAD CORE	
	L2311	J0JHC0000078	BEAD CORE	
	L2312	J0JHC0000078	BEAD CORE	
	L2313	J0JHC0000078	BEAD CORE	
	L2750	J0JYC0000065	COIL	
	L2751	J0JYC0000065	COIL	
	L2752	J0JYC0000065	COIL	
	L2754	J0JYC0000065	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	
	L4150	J0JHC0000118	COIL	
	L4151	G1C100MA0426	INDUCTOR	
	L4152	J0JYC0000333	INDUCTOR	
	L4153	G1C220MA0459	POWER 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	J0ZZB0000142	FILTER	
	L5604	J0ZZB0000142	FILTER	
	L5605	J0ZZB0000142	FILTER	
	L5606	J0ZZB0000142	FILTER	
	L7203	J0JKB0000034	EMI FILTER	
	L7301	J0JKB0000034	EMI FILTER	
	L7302	J0JHC0000075	BEAD COIL	
	L7303	J0JKA0000024	EMI FILTER	
	L7308	J0JKB0000034	EMI FILTER	
	L7803	J0JKA0000024	EMI FILTER	
	L7804	J0JKB0000034	EMI FILTER	
	L7808	J0JKB0000034	EMI FILTER	
	L7809	J0JKB0000034	EMI FILTER	
	L8003	J0JCC0000287	COIL	
	L8005	J0JYC0000322	COIL	
	L8006	J0JYC0000322	COIL	
	L8007	J0JYC0000322	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L8009	J0JKC0000021	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	
		TRANSISTORS		
	Q0900	B1ADCF000194	TRANSISTOR	
	Q2800	B1ABCE000015	TRANSISTOR	
	Q2801	B1ABCE000015	TRANSISTOR	
	Q2802	B1ABCE000015	TRANSISTOR	
	Q3104	B1ABCE000015	TRANSISTOR	
	Q3105	B1ABCE000015	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	B1AAFB000002	TRANSISTOR	
	Q4972	B1AAFB000002	TRANSISTOR	
	Q4974	DSC2001S0L	TRANSISTOR	
	Q7201	B1CERR000047	TRANSISTOR	
	Q7202	B1ADCE000027	TRANSISTOR	
	Q7203	B1ABBE000003	TRANSISTOR	
	Q7301	B1ADCE000027	TRANSISTOR	
	Q7302	B1ADCE000027	TRANSISTOR	
	Q7303	B1ABBE000003	TRANSISTOR	
	Q7304	B1ADCE000027	TRANSISTOR	
	Q7305	B1CEET000002	TRANSISTOR	
	Q7501	B1ABBE000003	TRANSISTOR	
	Q7502	B1ABBE000003	TRANSISTOR	
	Q7503	B1CHRE000008	TRANSISTOR	
	Q7504	B1CHRE000008	TRANSISTOR	
	Q7505	B1ABBE000003	TRANSISTOR	
	Q7801	B1ADCE000027	TRANSISTOR	
	Q7802	B1ADCE000027	TRANSISTOR	
	Q7803	B1CERQ000066	TRANSISTOR	
	Q7804	B1CERQ000066	TRANSISTOR	
	Q8100	B1MBEDA00027	TRANSISTOR	
	Q8102	B1MBEDA00027	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R0932	D0GA220JA023	C 22OHM ,J, 1/16W	
	R0933	D0GA220JA023	C 22OHM ,J, 1/16W	
	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	
	R2003	D1BB18R0A073	18OHM , 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	
	R2025	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R2600	D0GDR00JA017	C 0OHM ,J, 1/16W	
	R2601	D1BD1741A044	C 1.74KOHM , 1/16W	
	R2602	D1BD7151A044	C 7.15KOHM , 1/16W	
	R2603	D1BD6651A044	C 6.65KOHM , 1/16W	
	R2604	D1BD1432A044	C 14.3KOHM , 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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	
	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	
	R4127	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4128	D0GA100JA023	C 10OHM ,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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	D1BA1302A014	C 13KOHM ,J, 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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	R7104	ERC12ZGK225	S 2.2MOHM , 1/2W	
	R7201	ERX2SJR22P	M 0.22OHM, J, 2W	
	R7202	ERX2SJR22P	M 0.22OHM, J, 2W	
	R7203	D0GD753JA052	C 75KOHM , 1/8W	
	R7205	D0AF101JA112	100OHM ,J, 1/2W	
	R7206	D0GD753JA052	C 75KOHM , 1/8W	
	R7207	D0GD470JA052	47OHM ,J, 1/8W	
	R7208	D0AF220JA112	22OHM ,J, 1/2W	
	R7209	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7210	ERX2SJR22P	M 0.22OHM, J, 2W	
	R7211	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7213	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7215	D1BD5102A066	C 5.1KOHM ,J, 1/8W	
	R7216	D1BD3601A066	C 3.6KOHM , 1/16W	
	R7217	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7219	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7221	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7223	D1BD1603A066	160KOHM , 1/16W	
	R7224	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7226	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7229	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7230	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7231	D0GD223JA052	C 22KOHM ,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	
	R7301	D0GD223JA052	C 22KOHM ,J, 1/8W	
	R7302	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7303	D0GD470JA052	47OHM ,J, 1/8W	
	R7305	D1BD1803A066	C 180KOHM , 1/8W	
	R7306	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7308	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7310	ERJ8ENF2204	C 22MOHM , 1/16W	
	R7313	D1BD1803A066	C 180KOHM , 1/8W	
	R7314	D1BD4703A066	F 470KOHM , 1/8W	
	R7315	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7316	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7317	D0GD822JA052	8.2KOHM ,J, 1/8W	
	R7318	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7319	D0GD153JA052	15KOHM ,J, 1/8W	
	R7320	D0GD471JA052	C 470OHM ,J, 1/8W	
	R7321	D0GD150JA059	C 15OHM ,J, 1/8W	
	R7322	D0GD683JA052	C 68KOHM ,J, 1/8W	
	R7323	ERX2SJR47P	0.047OHM ,J, 1/116W	
	R7324	ERX2SJR22P	M 0.22OHM, J, 2W	
	R7325	D0GD330JA052	C 33OHM ,J, 1/16W	
	R7326	D0GD224JA052	C 220KOHM ,J, 1/16W	
	R7328	D0GD393JA052	C 39KOHM ,J, 1/16W	
	R7329	D0GD333JA052	33KOHM ,J, 1/8W	
	R7330	D0GD183JA052	C 18KOHM ,J, 1/8W	
	R7333	D0GD472JA052	C 4.7KOHM ,J, 1/8W	
	R7335	D0B1106JA033	10MOHM ,J, 1W	
	R7336	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7338	ERG2SJ330P	F 33OHM ,J, 2W	
	R7341	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7342	D1BD5602A066	56KOHM ,J, 1/16W	

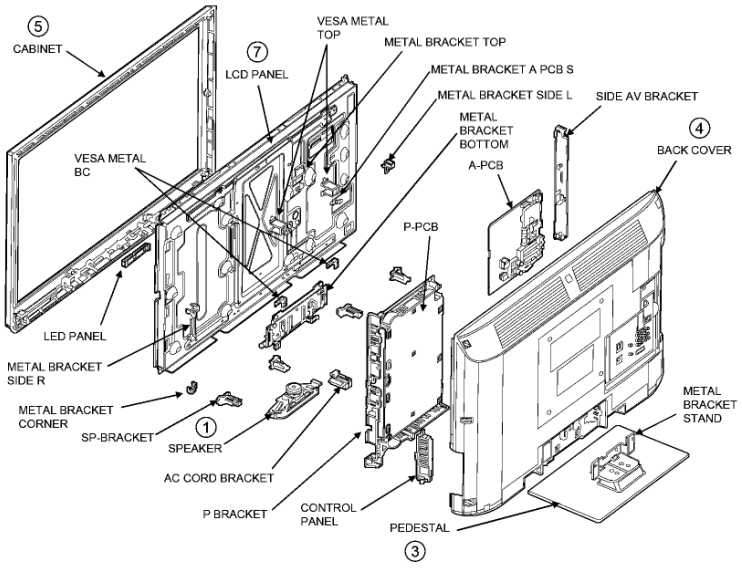
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R7502	D0GDR00J0004	C 0OHM ,J, 1/8W	
	R7503	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7504	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7505	D0GD471JA052	C 470OHM ,J, 1/8W	
	R7506	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7507	D0GD222JA052	C 470OHM ,J, 1/8W	
	R7508	D1BD5601A066	C 5.6KOHM ,J, 1/16W	
	R7509	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7510	D0GD472JA052	C 4.7KOHM ,J, 1/8W	
	R7511	D0GD222JA052	C 2.2KOHM ,J, 1/16W	
	R7512	D0GD152JA052	C 1.5KOHM ,J, 1/8W	
	R7513	D1BD8202A066	C 82KOHM , 1/8W	
	R7514	D1BD1202A066	C 120KOHM , 1/16W	
	R7515	D0GD153JA052	15KOHM ,J, 1/8W	
	R7516	D0GD153JA052	15KOHM ,J, 1/8W	
	R7517	D0GD153JA052	15KOHM ,J, 1/8W	
	R7518	D0GD154JA052	C 150KOHM ,J, 1/16W	
	R7519	D0GD103JA052	C 10KOHM ,J, 1/8W	
	R7520	D0GD153JA052	15KOHM ,J, 1/8W	
	R7801	D0GD101JA052	C 100KOHM ,J, 1/8W	
	R7802	D0GD101JA052	C 100KOHM ,J, 1/8W	
	R7803	D1BD2702A066	C 27KOHM , 1/16W	
	R7804	D1BD1002A066	C 10KOHM , 1/16W	
	R7805	D1BD5102A066	C 51KOHM , 1/16W	
	R7806	D1BD2002A066	C 20KOHM , 1/16W	
	R7807	D1BD2002A066	C 20KOHM , 1/16W	
	R7808	D1BD1002A066	C 10KOHM , 1/16W	
	R7809	D1BD1002A066	C 10KOHM , 1/16W	
	R7810	D1BD1002A066	C 10KOHM , 1/16W	
	R7811	D1BD1002A066	C 10KOHM , 1/16W	
	R7812	D1BD1002A066	C 10KOHM , 1/16W	
	R7813	D1BD1002A066	C 10KOHM , 1/16W	
	R7814	D1BD1002A066	C 10KOHM , 1/16W	
	R7815	D1BD1002A066	C 10KOHM , 1/16W	
	R7816	D1BD1003A066	C 100KOHM ,J, 1/8W	
	R7817	D1BD1202A066	C 12KOHM , 1/16W	
	R7818	D1BD1002A066	C 10KOHM , 1/16W	
	R7819	D1BD1003A066	C 100KOHM ,J, 1/8W	
	R7820	D0GD1R0JA052	C 1OHM ,J, 1/16W	
	R7821	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7822	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7823	D1BD1002A066	C 10KOHM , 1/16W	
	R7824	D1BD1003A066	C 100KOHM ,J, 1/8W	
	R7825	D1BD1003A066	C 100KOHM ,J, 1/8W	
	R7826	D1BD1003A066	C 100KOHM ,J, 1/8W	
	R7828	D1BD5102A066	C 51KOHM , 1/16W	
	R7829	D1BD4700A066	C 470OHM ,J, 1/8W	
	R7830	D1BD4700A066	C 470OHM ,J, 1/8W	
	R7831	D0GD680JA052	C 68OHM ,J, 1/16W	
	R7832	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7833	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7834	D0GD680JA052	C 68OHM ,J, 1/16W	
	R7835	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7836	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7837	D1BD2002A066	C 20KOHM , 1/16W	
	R7838	D1BD2002A066	C 20KOHM , 1/16W	
	R7839	D1BD2002A066	C 20KOHM , 1/16W	
	R7840	D1BD2002A066	C 20KOHM , 1/16W	
	R7841	D1BD2002A066	C 20KOHM , 1/16W	
	R7842	D1BD2002A066	C 20KOHM , 1/16W	
	R7843	D0GD750JA052	C 75KOHM , 1/8W	
	R7844	D0GD750JA052	C 75KOHM , 1/8W	
	R8001	D0GA331JA023	C 330OHM ,J, 1/16W	
	R8100	D1BB1301A087	1.3KOHM ,J, 1/10W	
	R8102	D1BB2101A074	C 2.1KOHM ,J, 1/10W	
	R8104	D1BB8200A074	C 820OHM ,J, 1/10W	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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 36OHM ,J, 1/16W	
	R8303	D0GA360JA023	C 36OHM ,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	
	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 22OHM ,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 39OHM ,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 39OHM ,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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	R8914	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8915	EXB2HV680JV	68OHM ,J, 1/16W	
	R8916	EXB2HV680JV	68OHM ,J, 1/16W	
	R8917	EXB2HV680JV	68OHM ,J, 1/16W	
	R8918	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8919	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8920	EXB28V680JX	68OHM ,J, 1/16W	
	R8921	EXB28V680JX	68OHM ,J, 1/16W	
	R8922	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8923	D0GA680JA023	C 68OHM ,J, 1/16W	
	R8924	EXB28V680JX	68OHM ,J, 1/16W	
	R8925	EXB28V680JX	68OHM ,J, 1/16W	
	R8965	EXB28V103JX	10KOHM ,J, 1/16W	
		TRANSFORMERS		
⚠	T7201	G4DYA0000263	SWITCHING TRANSFORMER	
⚠	T7301A	ETS28BH1L6AC	TRANSFORMER	
⚠	T7801	G4BYA0000027	PULSE TRANSFORMER	
⚠	T7802	G4FYA0000020	TRANSFORMER	
⚠	T7803	G4FYA0000020	TRANSFORMER	
⚠	T7804	G4EYA0000037	SWITCHING TRANSFORMER	
		OTHERS		
	A02	K1KY04AA0719	CONNECTOR	
	A09	K1KY15BA0324	CONNECTOR	
	A10	K1KY07AA0719	CONNECTOR	
	A12	K1KA04AA0190	CONNECTOR	
	A14	K1MN55BA0076	CONNECTOR	
	CF7101	D4CAY3R9A004	COIL	
	CF7102	D4CAY3R9A004	COIL	
	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	
	GK01	K1KA04BA0047	CONNECTOR	
	JA1	ERJ6GEY0R00V	FIXED RESISTOR	
	JA2	ERJ6GEY0R00V	FIXED RESISTOR	
	JA3	ERJ6GEY0R00V	FIXED RESISTOR	
	JA4	ERJ6GEY0R00V	FIXED RESISTOR	
	JA5	ERJ6GEY0R00V	FIXED RESISTOR	
	JA6	ERJ6GEY0R00V	FIXED RESISTOR	
	JA8	ERJ6GEY0R00V	FIXED RESISTOR	
	JA9	ERJ6GEY0R00V	FIXED RESISTOR	
	JK1000A	K1FY119D0016	HDMI CONNECTOR	
	JK1001A	K1FY119D0016	HDMI CONNECTOR	
	JK1002	K1FY119E0026	CONNECTOR	
	JK1030	K1FY104E0009	USB CONNECTOR	
	JK1031	K1FY104A0020	TERMINAL	
	JK1040	K2LC1YYA0016	TERMINAL	
	JK3000	K1U916A00003	TERMINAL	
	JK3300	K1U410B00001	TERMINAL	
	JK3703B	K1FY315A0009	TERMINAL	
	JK8850	K1NA12E00016	CONNECTOR	
	JS0021	D0GAR00J0005	CHIP RESISTOR	
	JS0024	D0GAR00J0005	CHIP RESISTOR	
	KA10	K1KA07B00135	CONNECTOR	
	LF7101	G0B650H00002	CHOKE COIL	
⚠	LF7102	G0B103H00010	LINE FILTER	
⚠	LF7103	G0B103H00010	LINE FILTER	
	P1	K1KY02A00001	CONNECTOR	

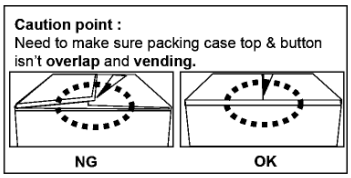
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	P2	K1KY16AA0806	CONNECTOR	
	P5	K1KY02BA0257	CONNECTOR	
	P6	K1KY02BA0257	CONNECTOR	
	P7	K1KY02BA0257	CONNECTOR	
	P8	K1KY02BA0257	CONNECTOR	
⚠	PA4150	K5H1622A0031	FUSE	
⚠	PA7551	K5H502YA0063	FUSE	
	PC7301	B3PAA0000363	PHOTO COUPLER	
	PC7302	B3PAA0000363	PHOTO COUPLER	
	PC7303	B3PAA0000363	PHOTO COUPLER	
	RM2800	PNJ4815M01TV	REMOCON SENSOR	
	SN2800	B3JB00000078	PHOTO DETECTOR	
⚠	SW2600	ESB33535XFD	POWER SWITCH	
	SW2601	K0H1BA000445	SWITCH	
	SW2602	K0H1BA000445	SWITCH	
	SW2603	K0H1BA000445	SWITCH	
	SW2604	K0H1BA000445	SWITCH	
	SW2605	K0H1BA000445	SWITCH	
⚠	TU4800A	ENGS7302D5F	TUNER	
	X8300	H0J245500113	CRYSTAL OSCILLATOR	
	X8600	H0J250500109	CRYSTAL RESONATOR	
	ZA0050	K4ZZ01000267	SHIELD CHIP	
	ZA0051	K4ZZ01000267	SHIELD CHIP	
	ZA0052	K4ZZ01000267	SHIELD CHIP	
	ZA0053	K4ZZ01000267	SHIELD CHIP	
	ZA7001	K4AD01A00003	TERMINAL	
	ZA7002	K4AD01A00003	TERMINAL	
	ZA7003	K4AD01A00003	TERMINAL	
	ZA8800	K4AD01D00008	TERMINAL	
	ZA8801	K4AD01D00008	TERMINAL	
	ZA8802	K4AD01D00008	TERMINAL	
	ZA8803	K4AD01D00008	TERMINAL	

Model No. : TH-L32C30R Parts Location

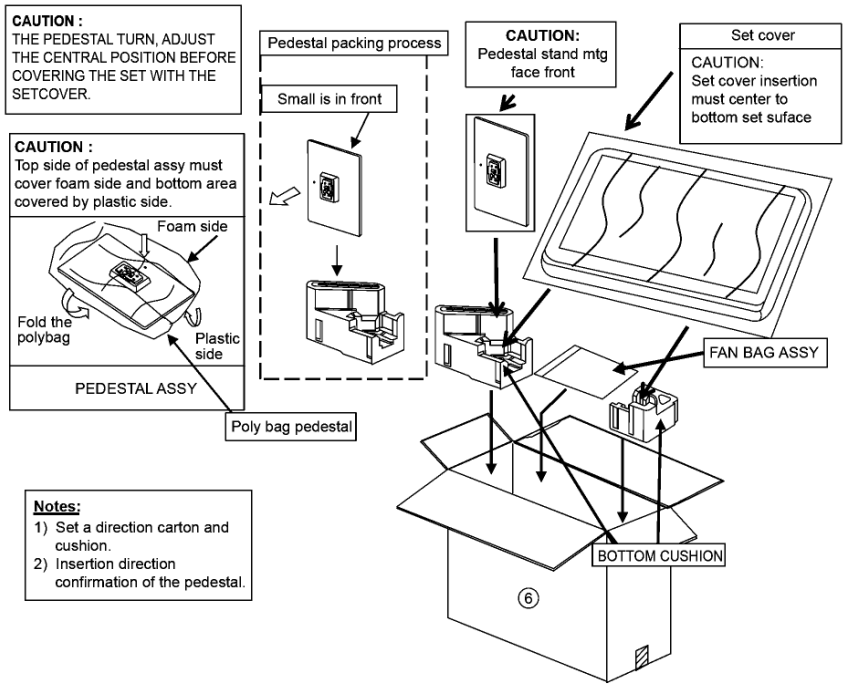


Model No. : TH-L32C30R　Packing Exploded View 1

① Tape at Packing Case bottom side.
② Check packing case in good condition.

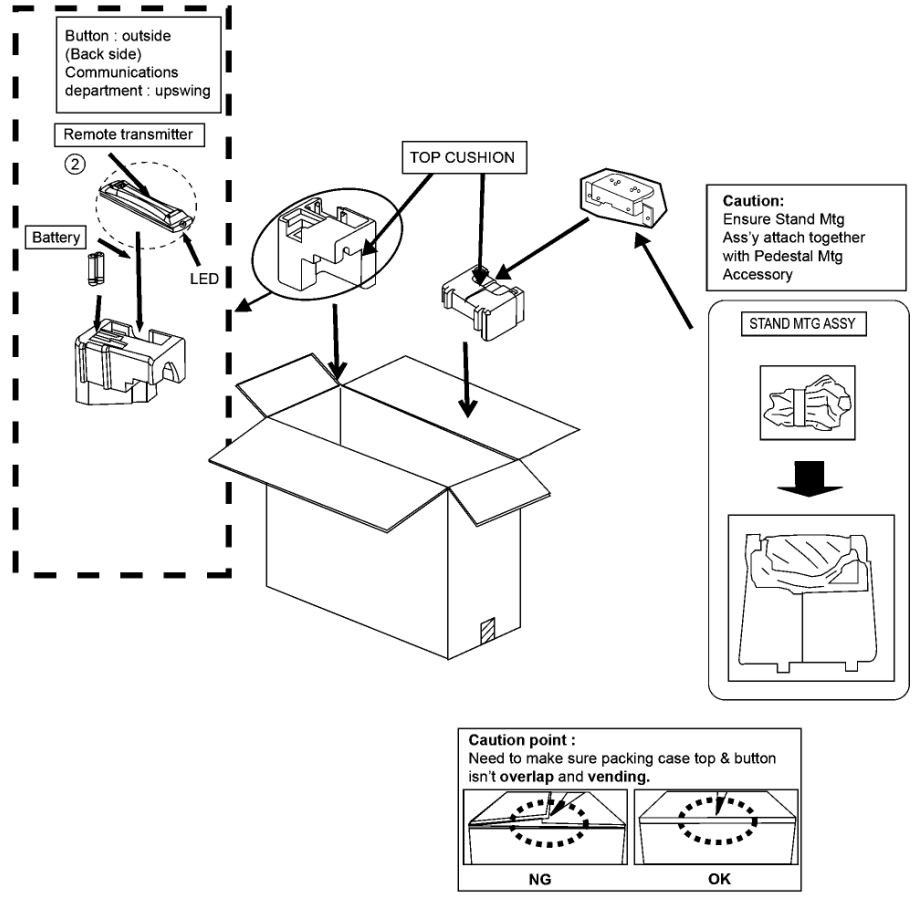


① Insert bottom cushion and set.
② Insert pedestal in right position.



Model No. : TH-L32C30R Packing Exploded View 2

Put Remote control, Battery and stand MTG at Top Cushion.



Model No. : TH-L32C30R Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
⚠		K2CQ2YY00065	AC POWER CORD		
	1	L0AA10B00001	SPEAKER		
	2	N2QAYB000604	REMOTE TRANSMITTER		
	3	TBL5ZX0084	PEDESTAL ASSY		
		TBL5ZX0085	STAND MOUNTING ASSY		
⚠		TBM4GC656	MODEL NAME PLATE		
		TBX4GA01101A	CONTROL BUTTON		
		TBX4GA01201C	POWER BUTTON		
		THE4GJ001J	SCREW		
		THEJ036J	SCREW		
		TKK4GC5029	LED PANEL		
		TKP4GA02601A	CONTROL PANEL BRACKET		
		TKP4GA05603A	SIDE AV BRACKET		
		TKX4GA05801	SPEAKER BRACKET		
		TMX4GX008	AC CODE BRACKET		
		TPD4GA0188	BOTTOM CUSHION		
		TPD4GA0189-1	TOP CUSHION		
		TPE4GH031	SET COVER		
		TQZ4GB466	FAN BAG ASSY		
	4	TTU4GA0568-1	BACK COVER ASSY		
	5	TTY4GA0214	CABINET ASSY		
	6	TXFPC01MRUR	PACKING CASE ASSY		
⚠		TXJ300LVUK	LVDS CABLE		
⚠	7	VVX32H100G00	LCD PANEL		
		XSS4+14FJK	SCREW		
		XTB4+12JFJ	SCREW		
		XTB4+15JFJ	SCREW		
		XTB4+15JFJK	SCREW		
		XTV3+10GFJK	SCREW		
		XTV3+12JFJ	SCREW		
		XTW3+8SFJ	SCREW		
		XYN3+J8FJ	SCREW		
		XYN4+F12FJK	SCREW		
Electrical Replacement Part List					
⚠	RTL	TZT/A1MRUR	A PRINT ASSY		
⚠	RTL	TZRNP01MBUH	P BOARD		
⚠	RTL	TNP4G502AA	GK PRINT		
⚠	RTL	TNPA5378BA	KA PRINT		