

Service Manual

LCD TV

Model No. **TH-L37X10R**

Chassis: KM02

Destination: IRAN



Specifications

Power Source	AC SINGLE 220 - 240V, 50/60 Hz
Power Consumption	
Average use	158 W
Standby condition	0.7 W
Display panel	
Aspect Ratio	16:9
Visible screen size	94 cm (diagonal) 819 mm (W) × 460 mm (H)
(No. of pixels)	1,049,088 (1,366 (W) × 768 (H))
Sound	
Speaker	Full range × 2 pcs, 8 Ω
Audio Output	20 W (10 W + 10 W), 10% THD
Headphones	M3 (3.5 mm) stereo mini Jack × 1
PC Signals	VGA, SVGA, XGA SXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz

Receiving Systems / Band name	17 SYSTEMS	FUNCTIONS
	1 PAL B, G, H	
	2 PAL I	
	3 PAL D, K	
	4 SECAM B, G	
	5 SECAM D, K	
	6 SECAM K1	
	7 NTSC M (NTSC 3.58 / 4.5MHZ)	

Reception of broadcast transmission and playback from video cassette tape recorders.

8	NTSC 4.43 / 5.5 MHz	
9	NTSC 4.43 / 6.0 MHz	
10	NTSC 4.43 / 6.5 MHz	
11	NTSC 3.58 / 5.5 MHz	Playback from special VCR's or DVD.
12	NTSC 3.58 / 6.0 MHz	
13	NTSC 3.58 / 6.5 MHz	
14	SECAM I	
15	PAL 60 Hz / 5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD.
16	PAL 60 Hz / 6.0 MHz	
17	PAL 60 Hz / 6.5 MHz	

Receiving Channels (Regular 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 U.S.A.)

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 U.S.A.)

CATV

S1 - S20 (OSCAR)
 1 - 125 (U.S.A. 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)
	COMPONENT	Y	1.0 V [p-p] (including synchronization)
		P _B /C _B , P _R /C _R	± 0.35 V [p-p]
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)
	S-VIDEO	Mini DIN 4-pin	Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω)
Others	HDMI 1 / 2 Input	TYPE A Connectors	• This TV supports "HDAVI Control 4" 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 [rms] (high impedance)
Monitor Input	Card Slot	SD Card slot × 1	
	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms] (High impedance)
	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

Dimension (W x H x D)

915 mm × 620 mm × 287 mm (With Pedestal)

915 mm × 577 mm × 97 mm (TV only)

Mass

17.0 kg Net (With Pedestal)

14.5 kg Net (TV only)

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

⚠ 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.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents 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 the Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part and measure the voltage at each point.
5. The potential at any point (touch current) expressed as voltage U_1 and U_2 , do not exceed the following values:

For AC: $U_1 = 35 \text{ V}$ (peak) and $U_2 = 0.35 \text{ V}$ (peak);

For DC: $U_1 = 1.0 \text{ V}$,

NOTE :

The limit value of $U_2 = 0.35 \text{ V}$ (peak) for AC and $U_1 = 1.0 \text{ V}$ for DC correspond to the values 0.7 mA (peak) AC and 2.0 mA DC.

The limit value $U_1 = 35 \text{ V}$ (peak) for AC correspond to the value 70 mA (peak) AC for frequencies greater than 100 kHz .

6. Should a measurement be out 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.

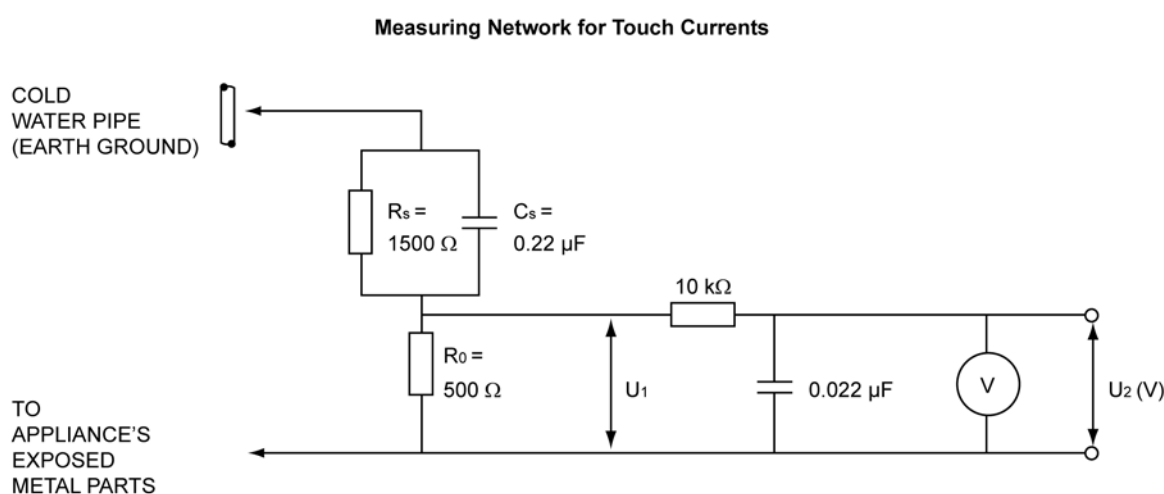


Figure 1

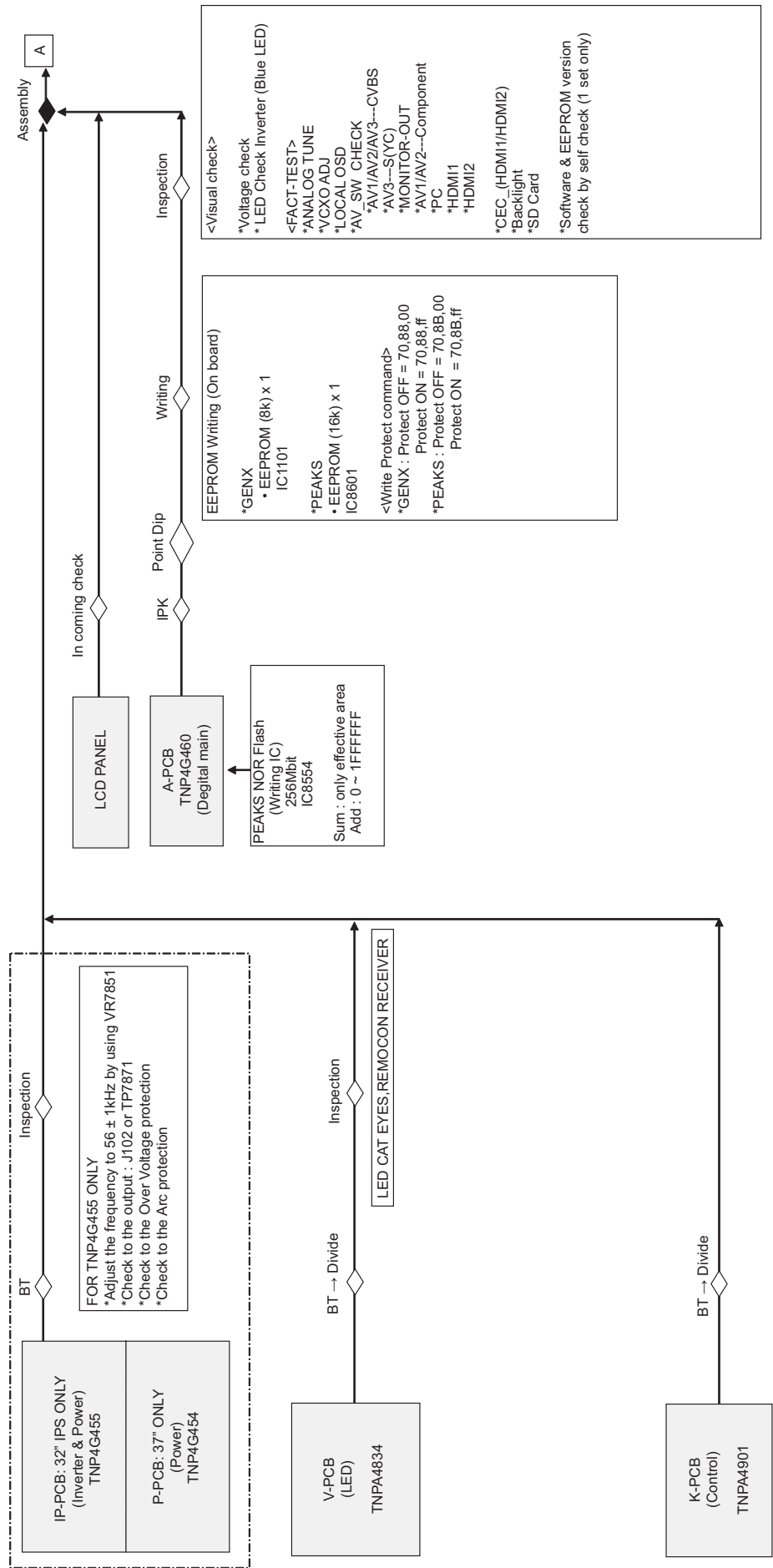
Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: $\geq 1 \text{ M}\Omega$
 Input capacitance: $\leq 200 \text{ pF}$
 Frequency range: 15 Hz to 1 MHz and DC respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

1.3. KM02 Chasis Block Diagram



2 Prevention of Electro Static 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 electro static 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 aluminium 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 charges 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, aluminium 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 harmless 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).

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, 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 from the manufacturer.

3 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 (PbF) used in our manufacturing process and discussed below is (Sn+Ag+Cu).

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

This model uses PbF in its manufacture due to environmental conservation issues. For service and repair work, we would suggest the use of PbF as well, although Pb may be used.

PCBs manufactured using lead-free will have the "PbF within a leaf Symbol" stamped on their back.

Caution

- PbF has a higher melting point than that of 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).

- PbF 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 PbF on the pins or solder area before applying Pb. If this is not practical, be sure to heat the PbF until it melts, before applying Pb.

- After applying PbF to double layered boards, please check the component side for excess solder which may flow onto the opposite side (see Figure 2).

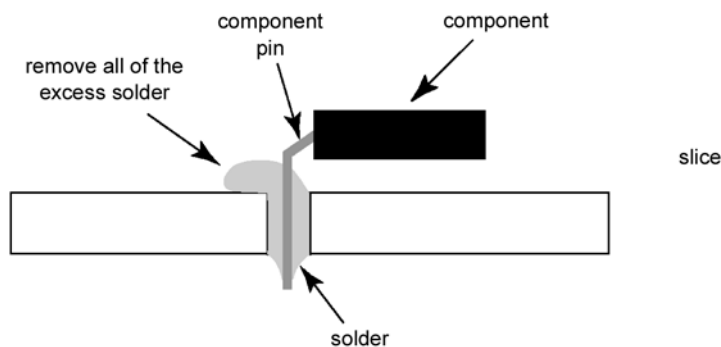


Figure 2

Suggested PbF

There are several kinds of PbF available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper) and Sn+Zn+Bi (tin, zinc, bismuth) solders can also be used.

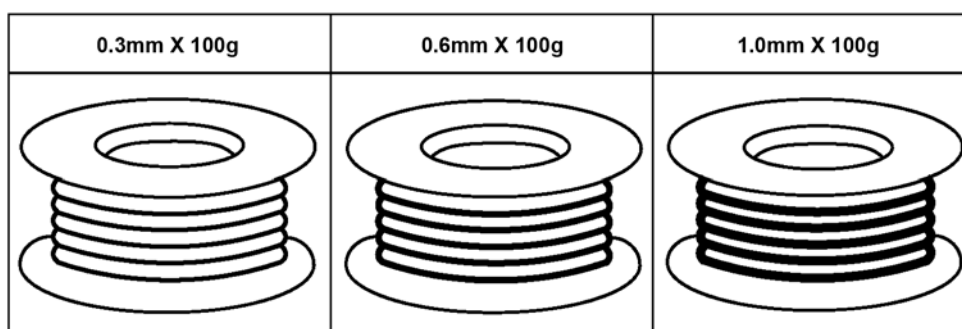


Figure 3

4 Power LED Blinking Timing

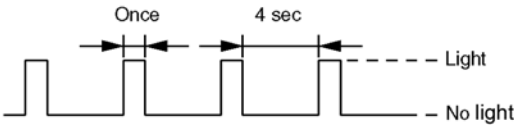
1. Subject

Information of LED Flashing timing.

2. Contents

When an abnormality has occurred in the unit, the protection circuit operates and resets to standby mode. At this time, the defective block can be identified by the number of blinking of the Power LED on the front panel of the unit as follow:

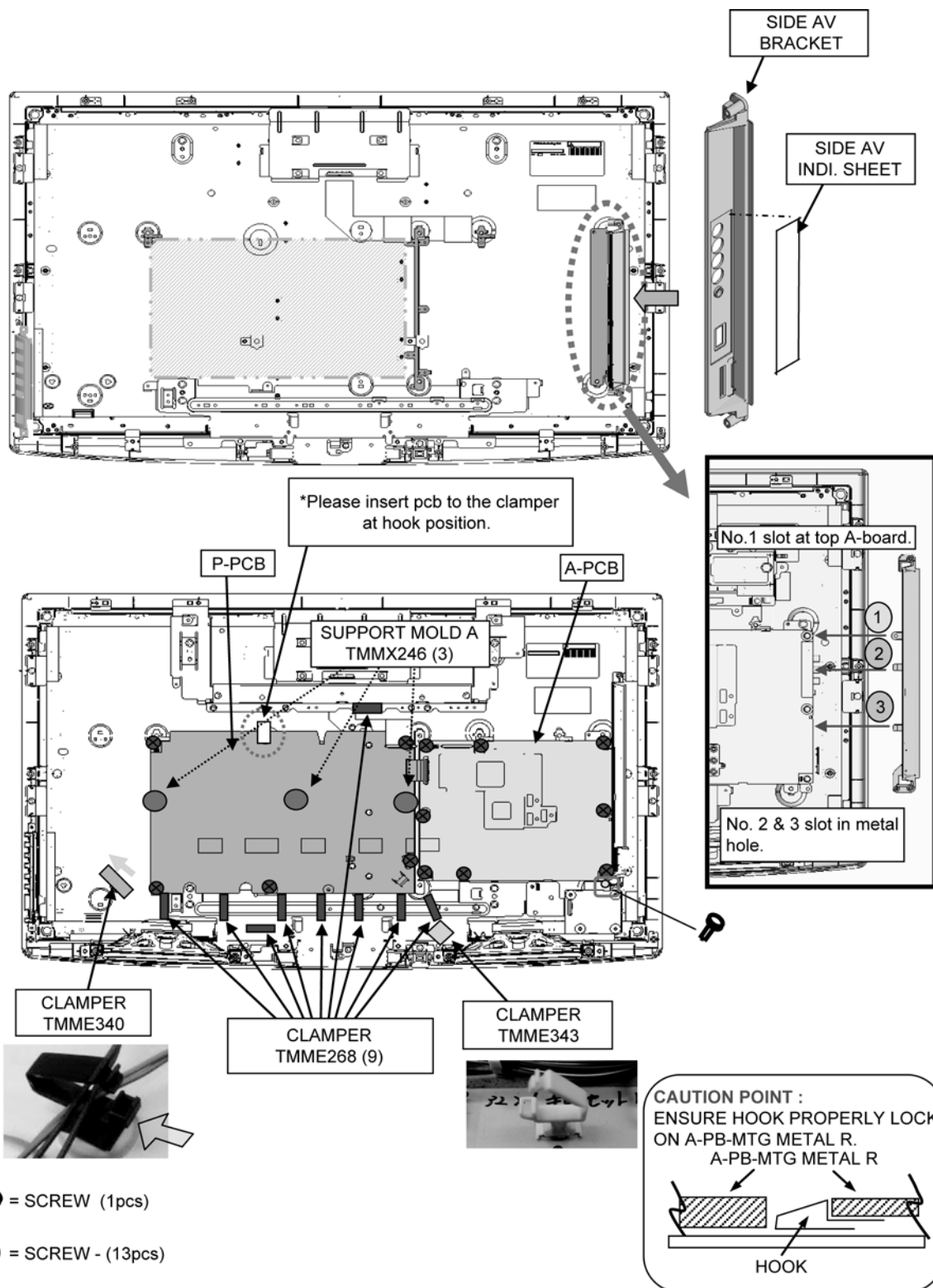
Blinking times	Contents
1	Lamp short circuit protection Lamp open protection Arc protection
2	Cooling fan SOS = incomplete connection - no function mode.
3	P board 30V / 18V / 9V decreased / short circuit detection.
4	DTV12V decreased / short circuit , main convertor stop detection.
5	Sub 5V decreased / short circuit detection.
6	Sub 5V decreased / short circuit detection. (same as 5 times LED blinking)
7	Sub 3.3V decreased / short circuit detection.
8	Sub 5V decreased / short circuit detection. (same as 5 times LED blinking)
9	Audio amp SOS.
10	HQ1 incomplete connection, no function mode.
13	When peaks communication error SOS.

No. of blinks	Blinking timing	Contents	Check point
1		Inverter SOS (24 V line Inverter in LCD panel)	POWER UNIT LCD PANEL
3		SOS BT 30 V/ SOUND 18 V/ PANEL 12 V/	AP-BOARD H-BOARD
4		Sub 9 V	AP-BOARD
5		Sub 5 V	AP-BOARD
6		Main 9 V	AP-BOARD
8		Main 3.3 V	AP-BOARD

5 Chassis Board

5.1. Chassis Installation

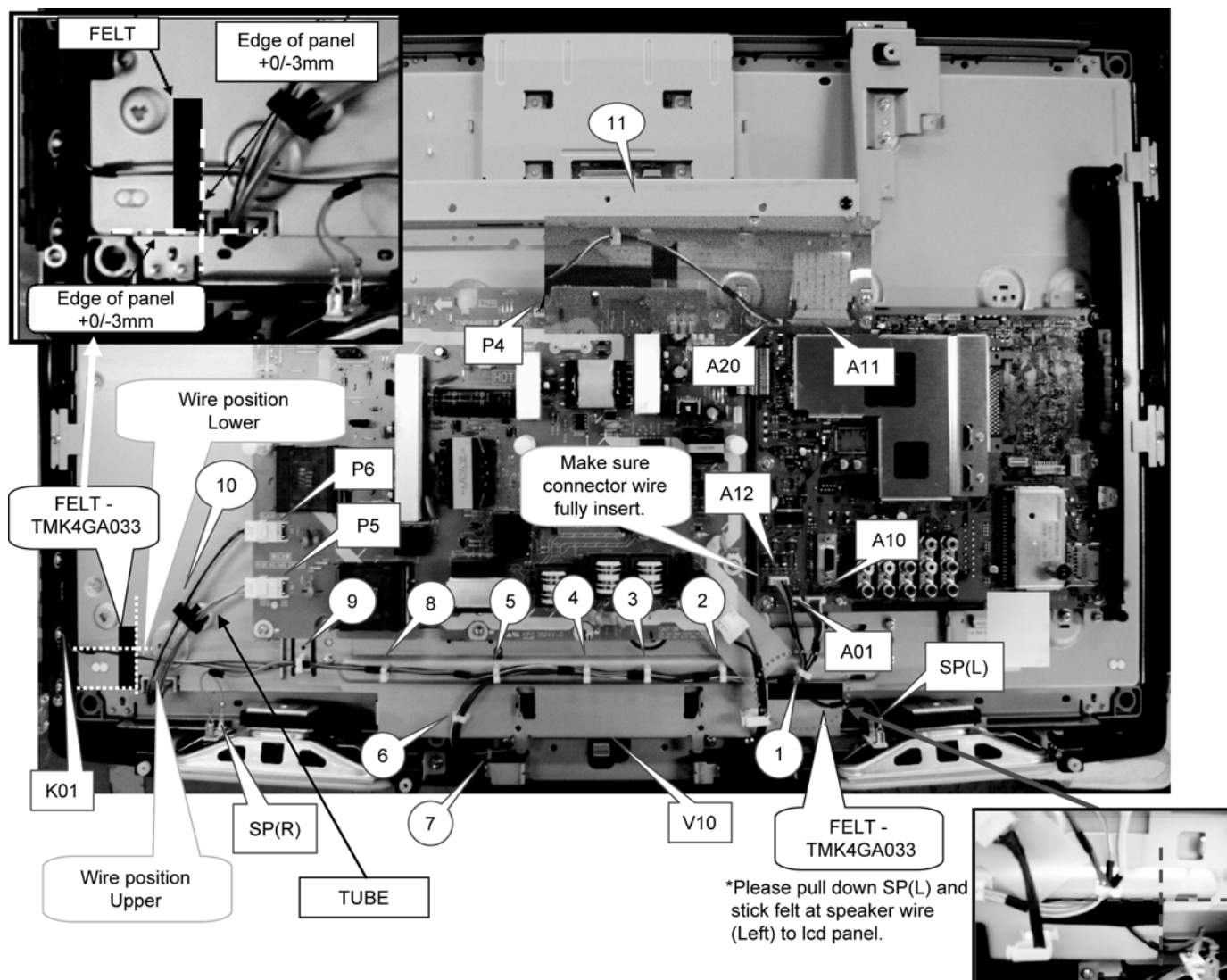
1. Stick FELT to SIDE AV BRACKET.
 - Stick the SIDE AV INDI. SHEET on the SIDE AV BRACKET.
 - Insert the SIDE AV BRACKET from the side position of the A-PCB.



6 Location of Controls and Components

6.1. Wire Dressing

1. Wiring No. 1 ~ No.7
2. Remove dust of terminal of LVDS and PB connector. (by ion blow) Pos. A11
3. Insert LVDS into A11.

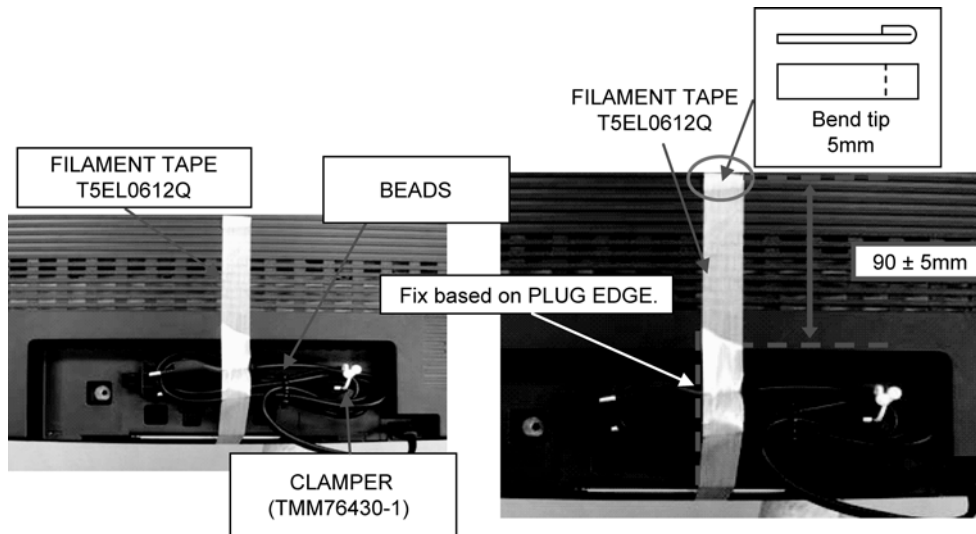


Wire		Clamper										
		1	2	3	4	5	6	7	8	9	10	11
No.1	A10 ~ V10	●	●	●	●	●	●	●				
No.2	A01 ~ K01	●	●	●	●	●			●	●		
No.3	A12 ~ SP(L)	●										
No.4	A12 ~ SP(R)	●	●	●	●	●			●	●		
No.5	~ P5										●	
No.6	~ P6										●	
No.7	A20 ~ P4											●

7 Disassembly and Assembly Instructions

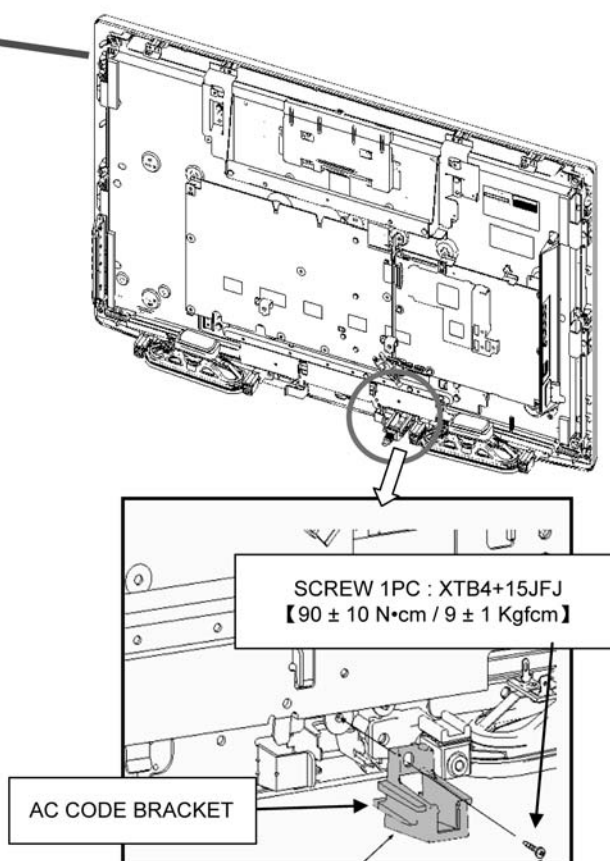
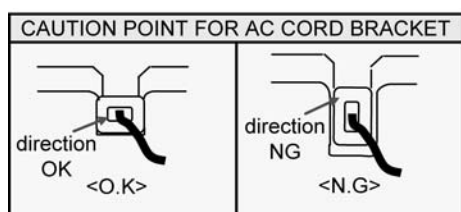
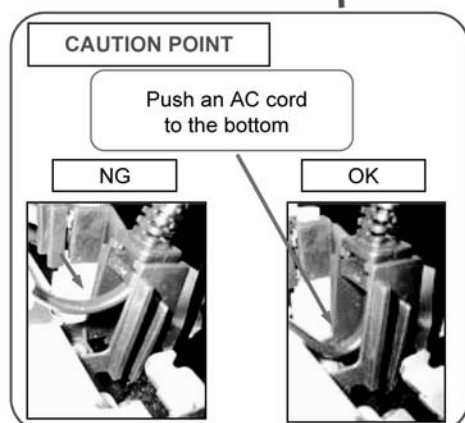
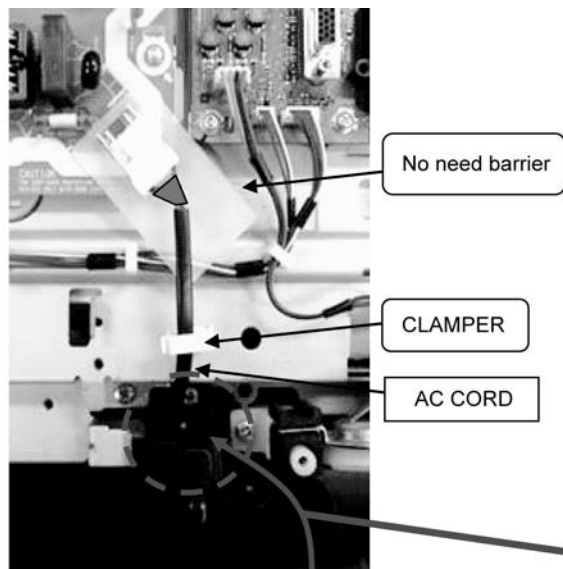
7.1. AC Cord Dressing

1. Clamp plug with clumper.
2. Insert beads 3pcs. And slide down to lower hole.



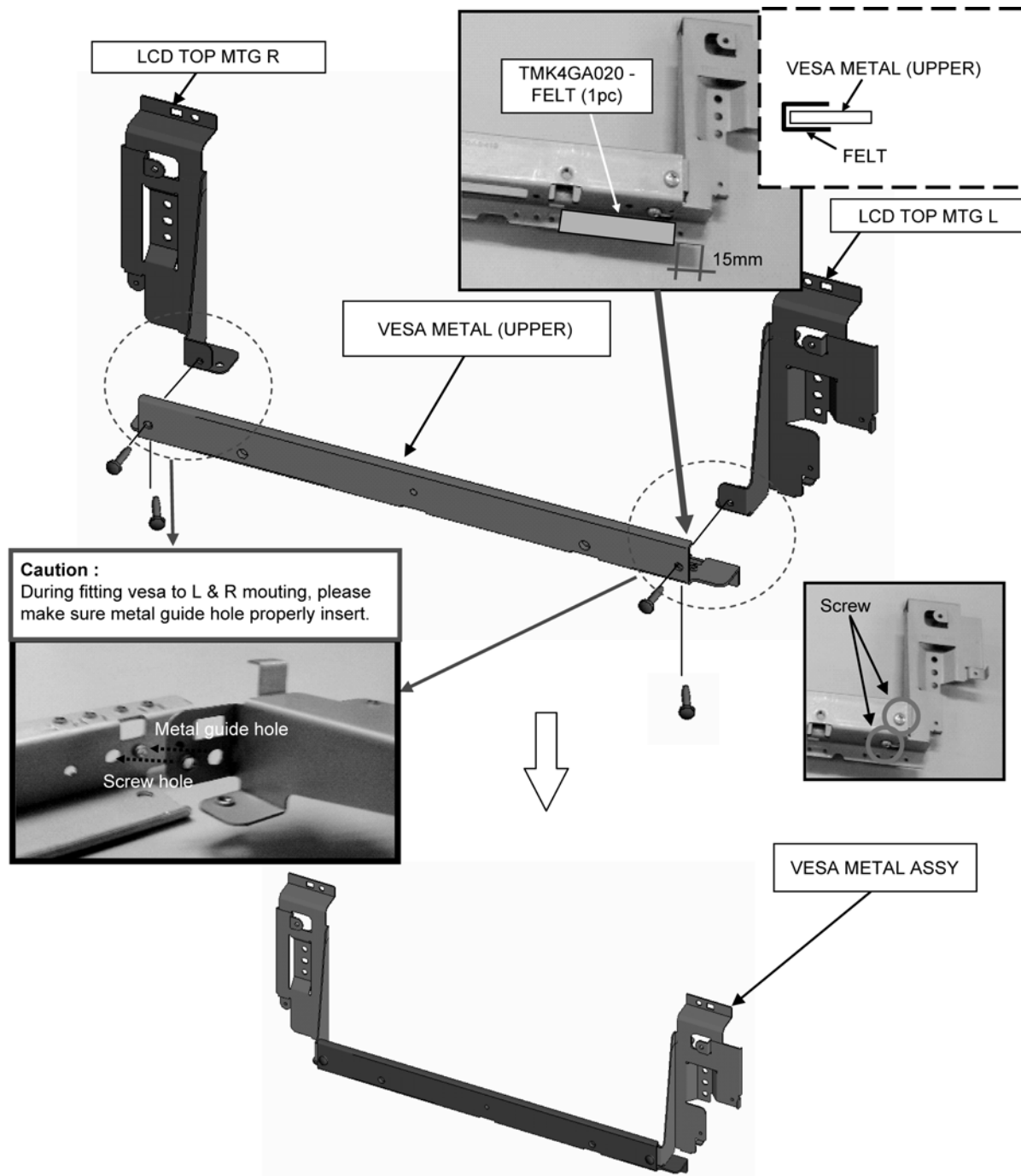
7.2. AC Cord Installation

1. Put on the AC CORD BRACKET on the CABINET.
2. Fix the AC CORD BRACKET with SCREW.
3. AC CORD BARRIER setting.
4. Insert AC CORD connector into P-PCB connector.
5. Clamp the AC CORD.
6. Insert AC CORD bushing into the AC CORD BRACKET.



7.3. VESA Metal Assembly

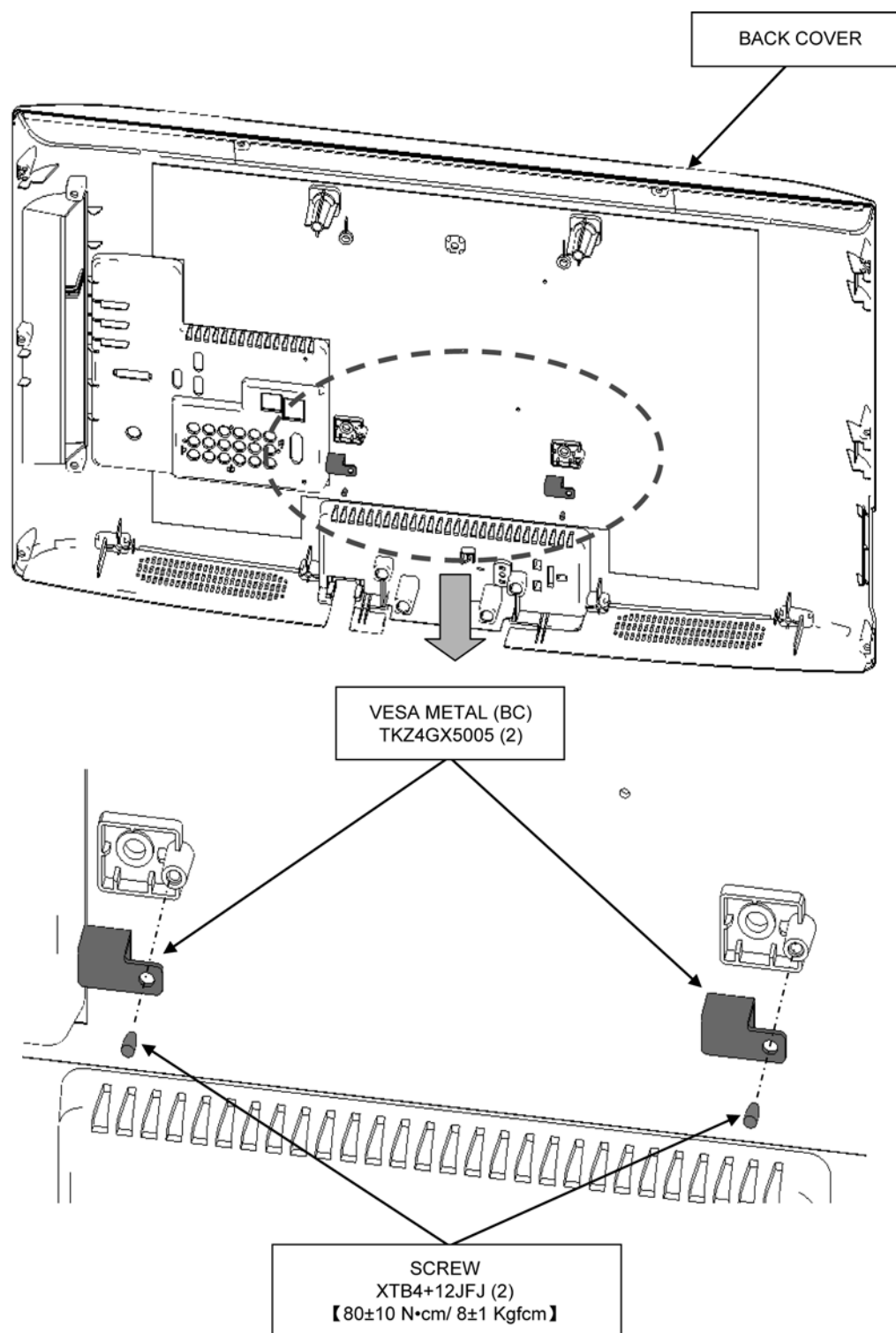
1. Assemble LCD TOP MTG(L,R) , VESA METAL(upper) and fix them with screw. **Please use jig for vesa metal assembly preparation.**



● = SCREW = 4 pcs

7.4. VESA (BC) Installation

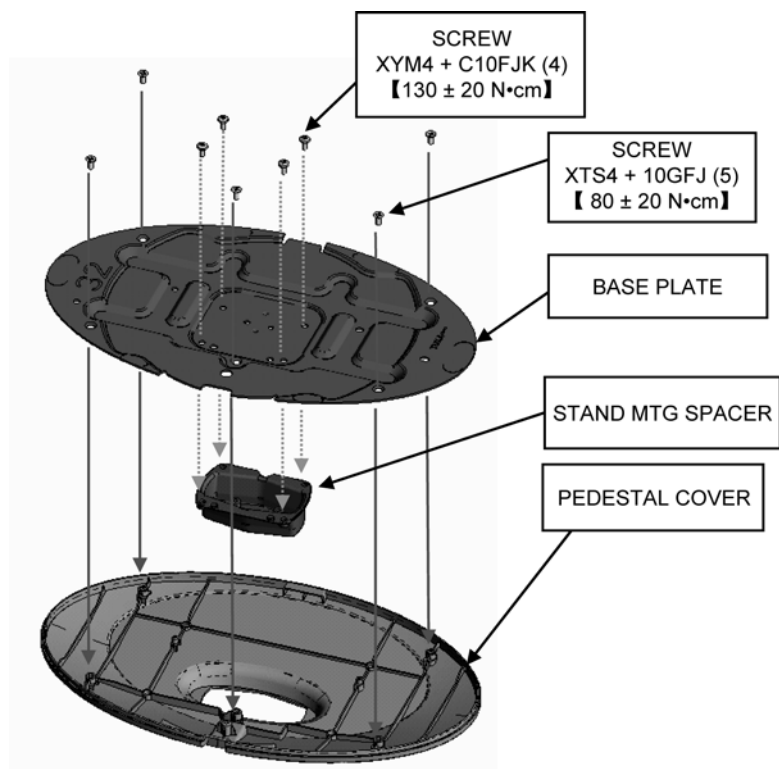
1. Put VESA METAL(BC) on the BACK COVER.
2. Fix them with SCREWS.



7.5. Pedestal Assembly

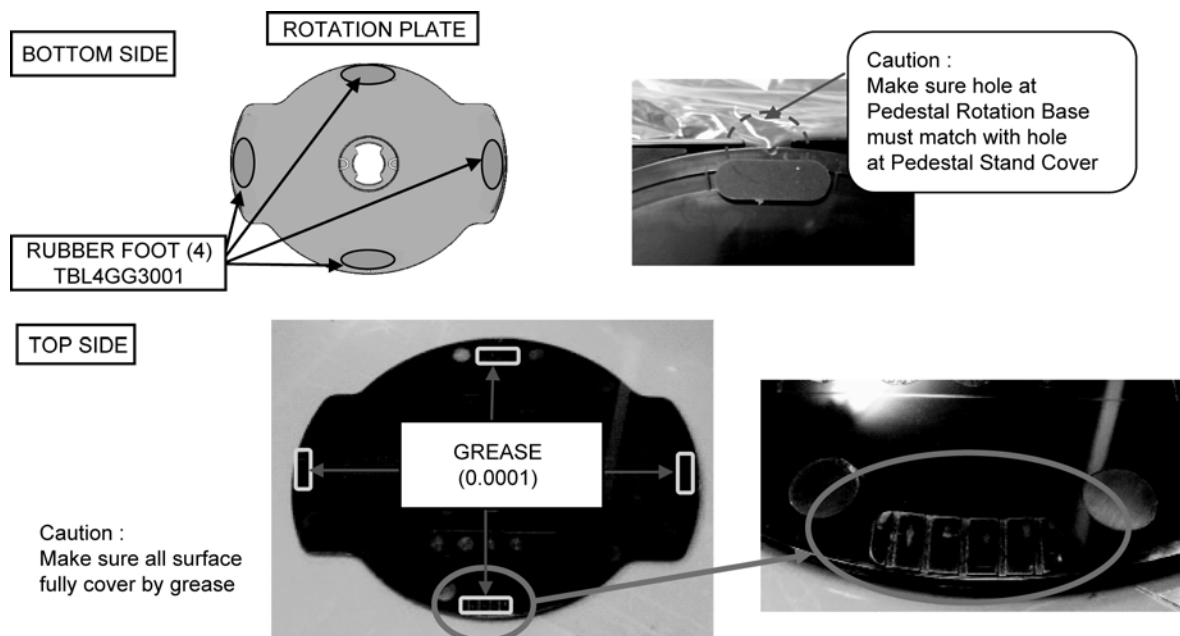
Step 1

Setting PEDESTAL COVER and STAND MTG SPACER and BASE PLATE with SCREWS.



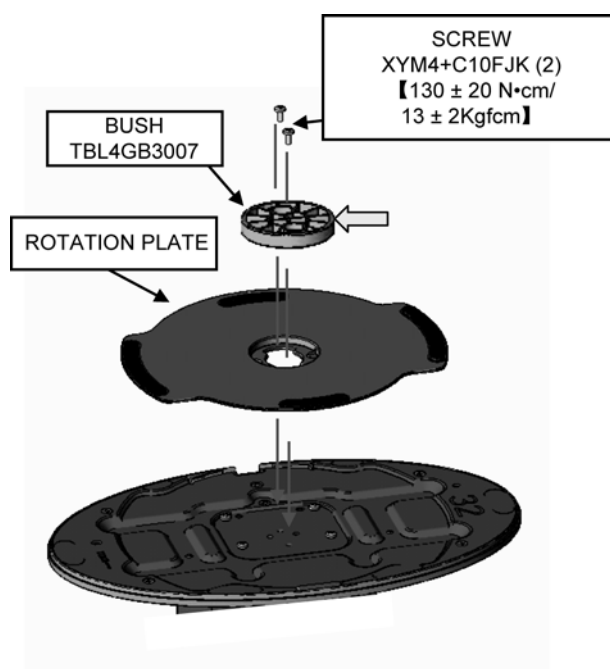
Step 2

1. Stick the RUBBER FOOT at bottom ROTATION PLATE.
2. Make sure ROTATION PLATE surfacefully cover by grease. Follow the picture

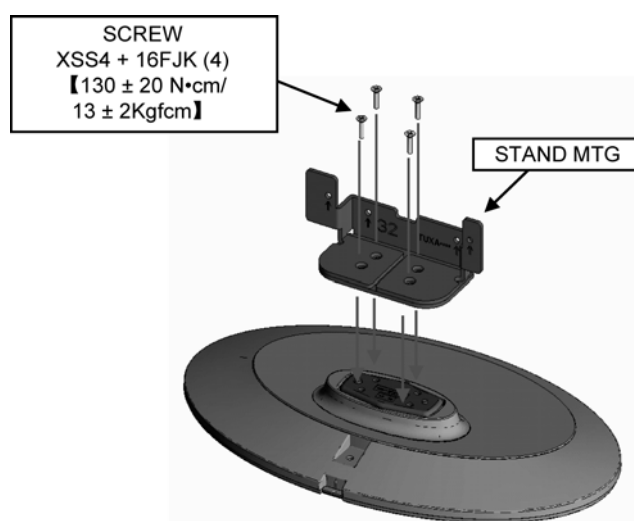


Step 3

Setting ROTATION PLATE and BUSH with SCREWS.

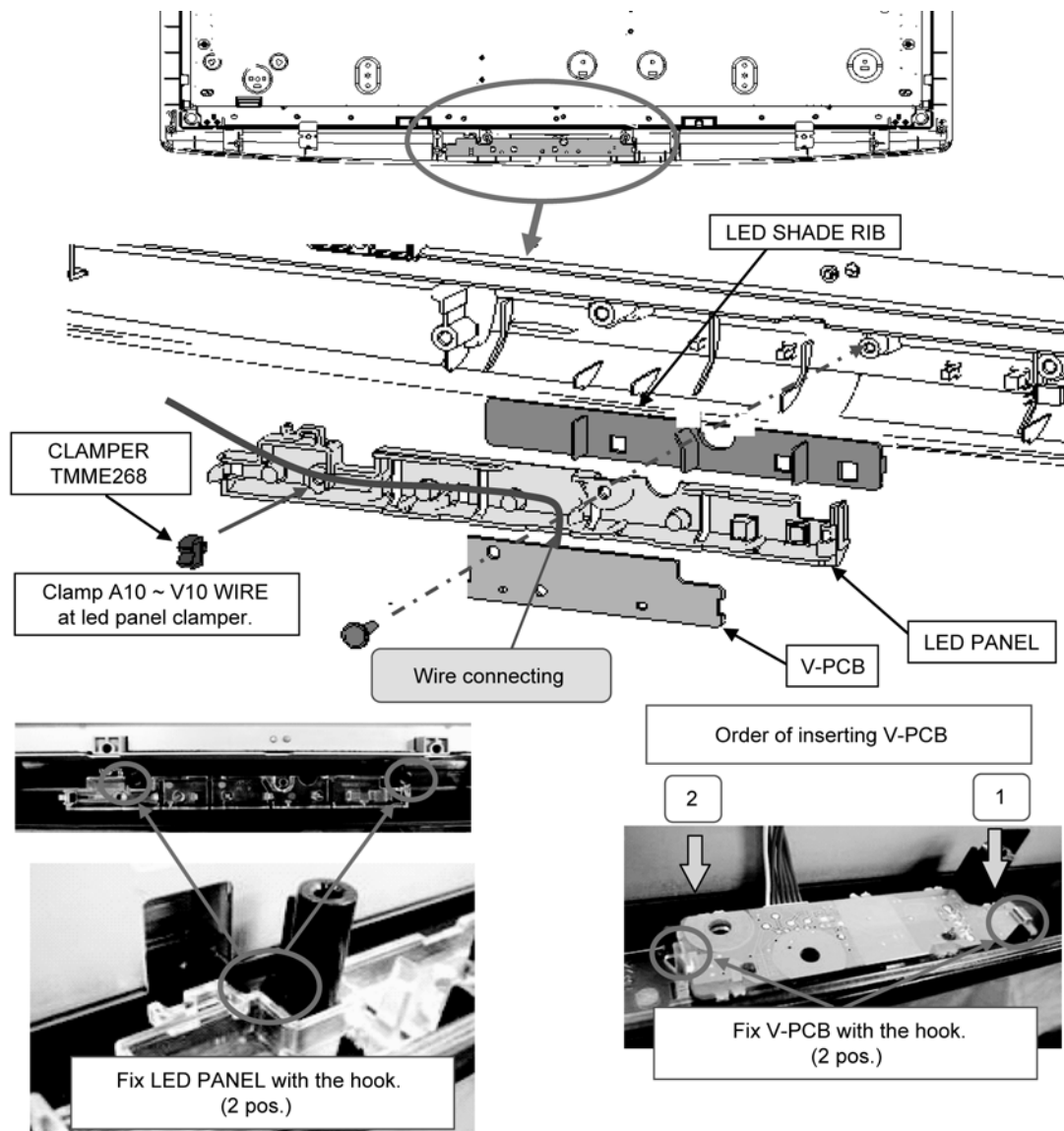
**Step 4**

Setting STAND MTG with SCREWS.



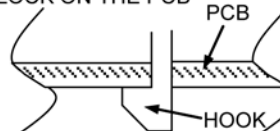
7.6. LED Panel Installation & Fitting

1. Put LED SHADE RIB on CABINET.
2. Fix LED PANEL on CABINET.
3. Wire connecting. (V10)
4. Put V-PCB on CABINET.
5. Fix them with SCREW.
6. Insert the CLAMPER.



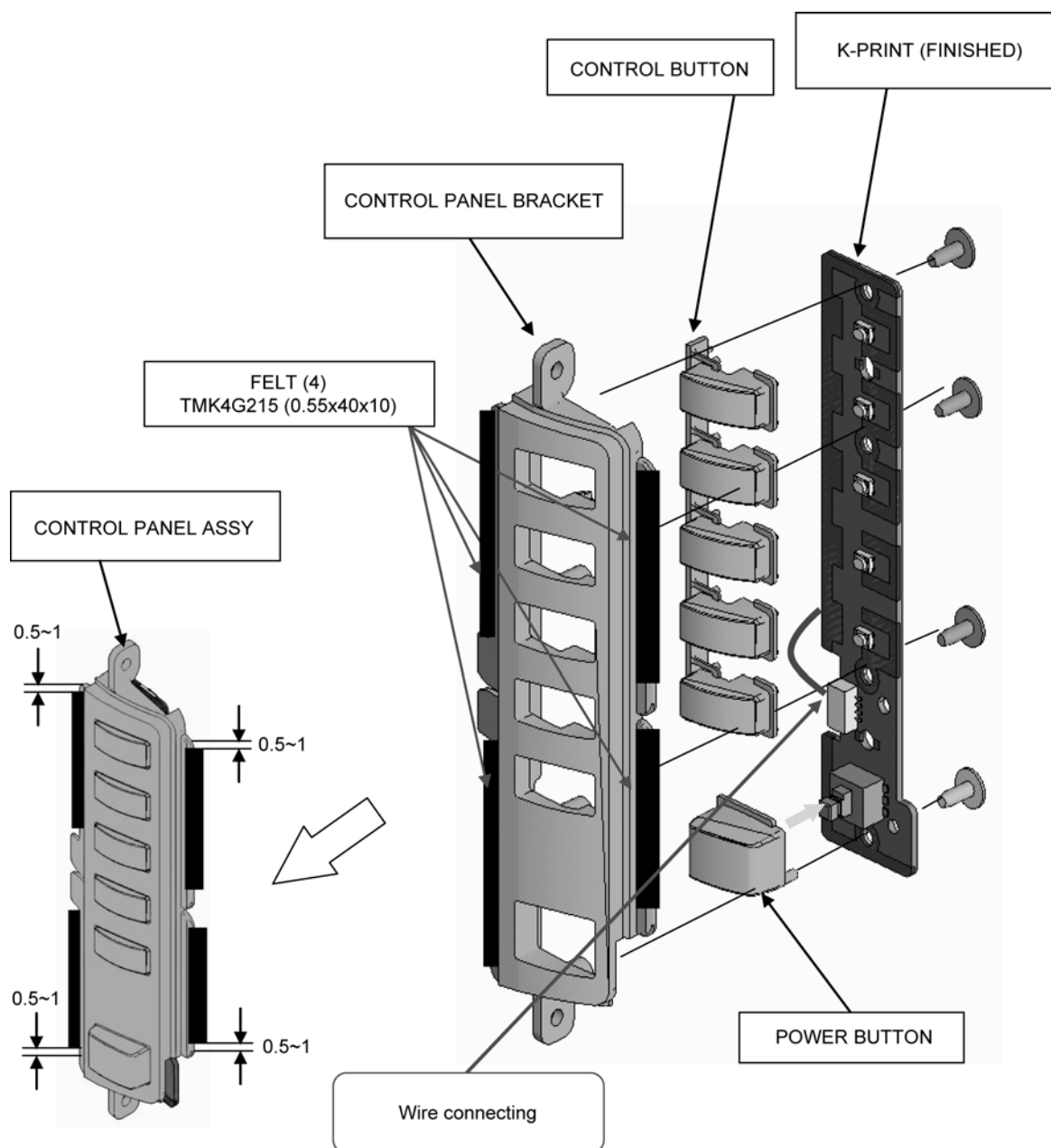
 = SCREW - (1 Pcs)

CAUTION POINT :
ENSURE HOOK PROPERLY
LOCK ON THE PCB



7.7. Control Panel Assembly

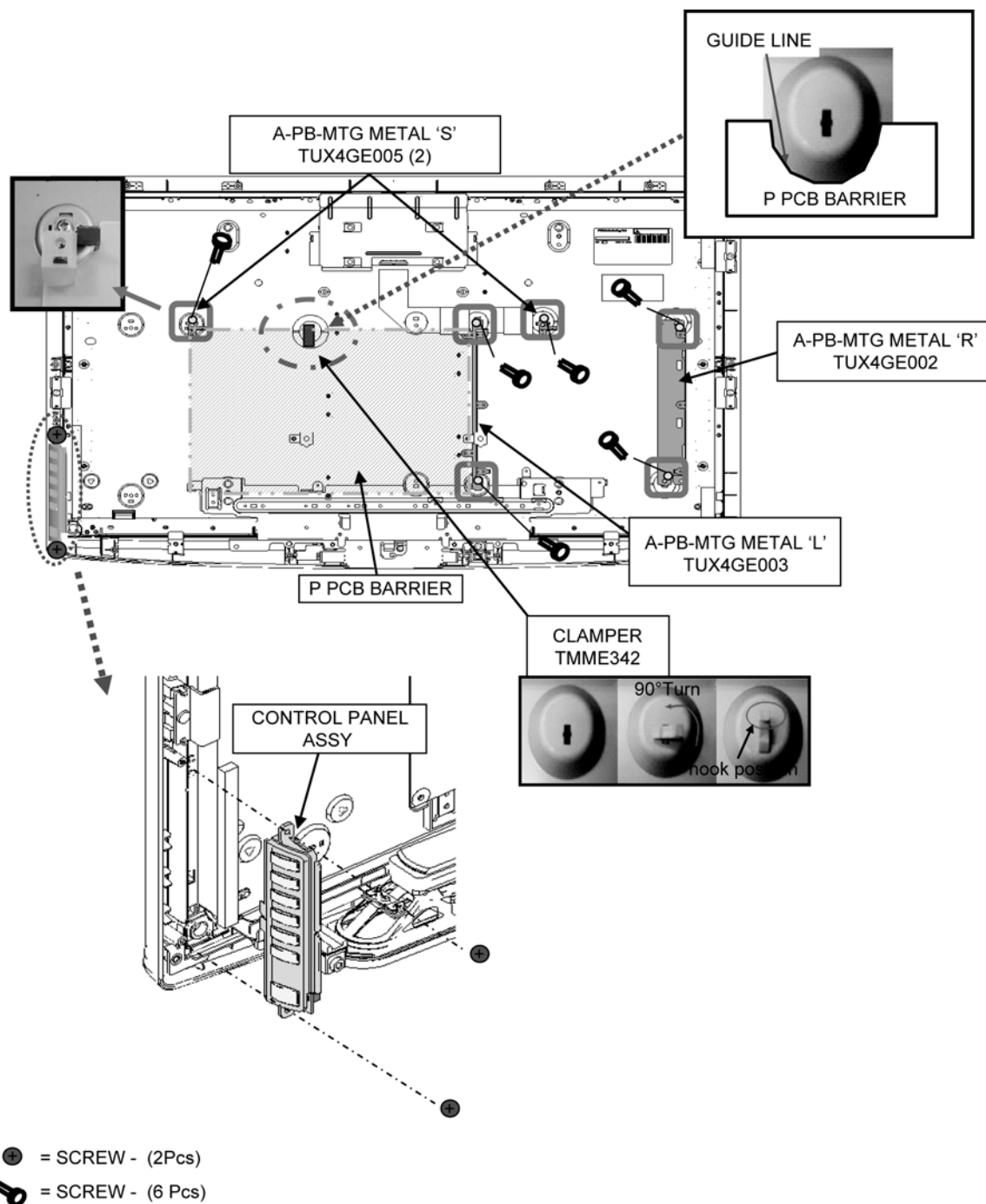
1. Wire connecting. (K1)
2. Assemble POWER BUTTON to the K-PRINT.
3. Assemble K-PRINT, CONTROL BUTTON, CONTROL PANEL BRACKET.
4. Fix them with SCREWS.
5. Stick the FELT.



 = 4 PCS SCREW

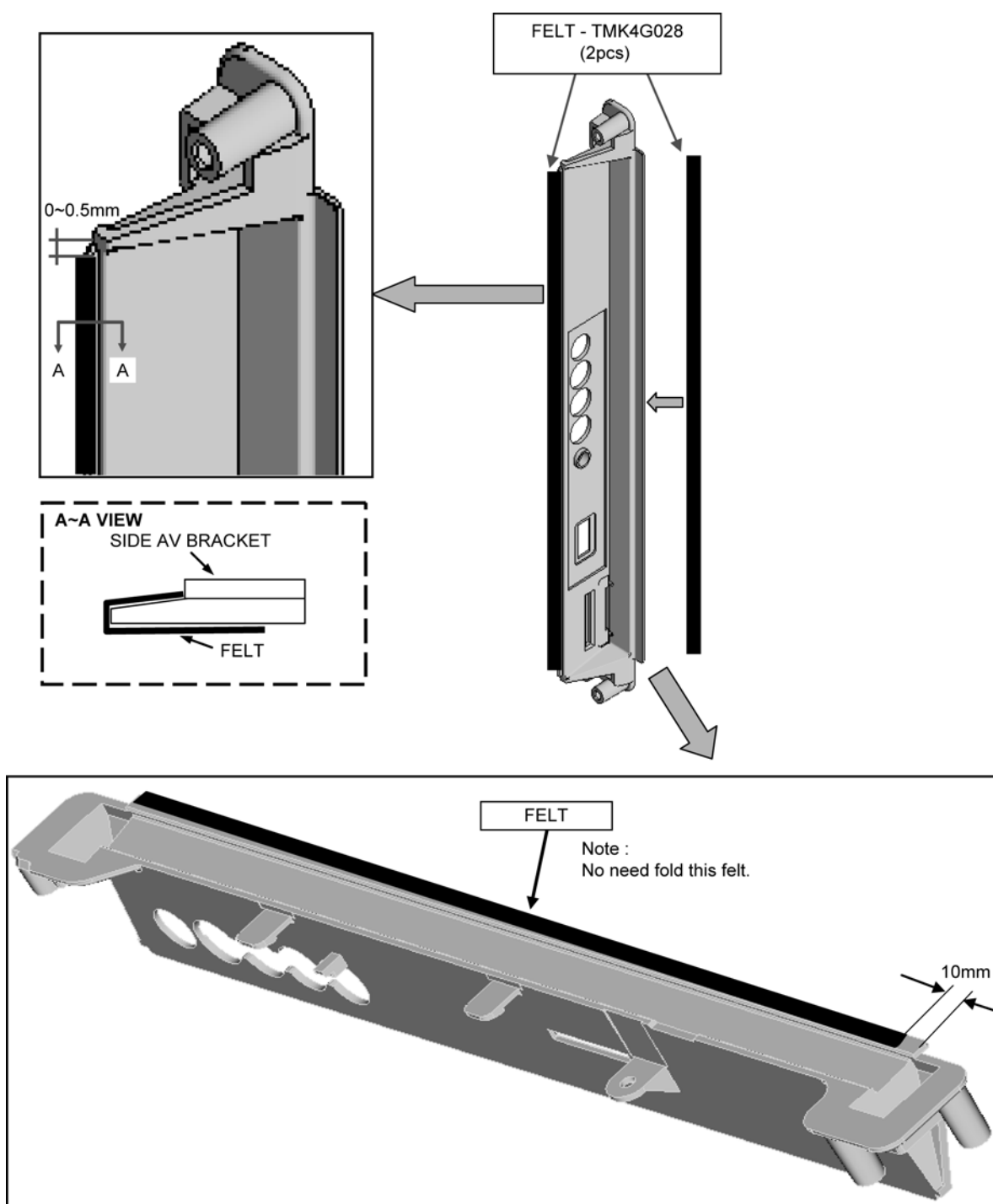
7.8. A-PB-MTG & Control Button Fixing

1. Stick P-PCB BARRIER and put all METAL part follow to the picture. Fix all metal part with screw.
2. Put CONTROL PANEL ASSY on the CABINET. Fix the CONTROL PANEL with SCREWS.



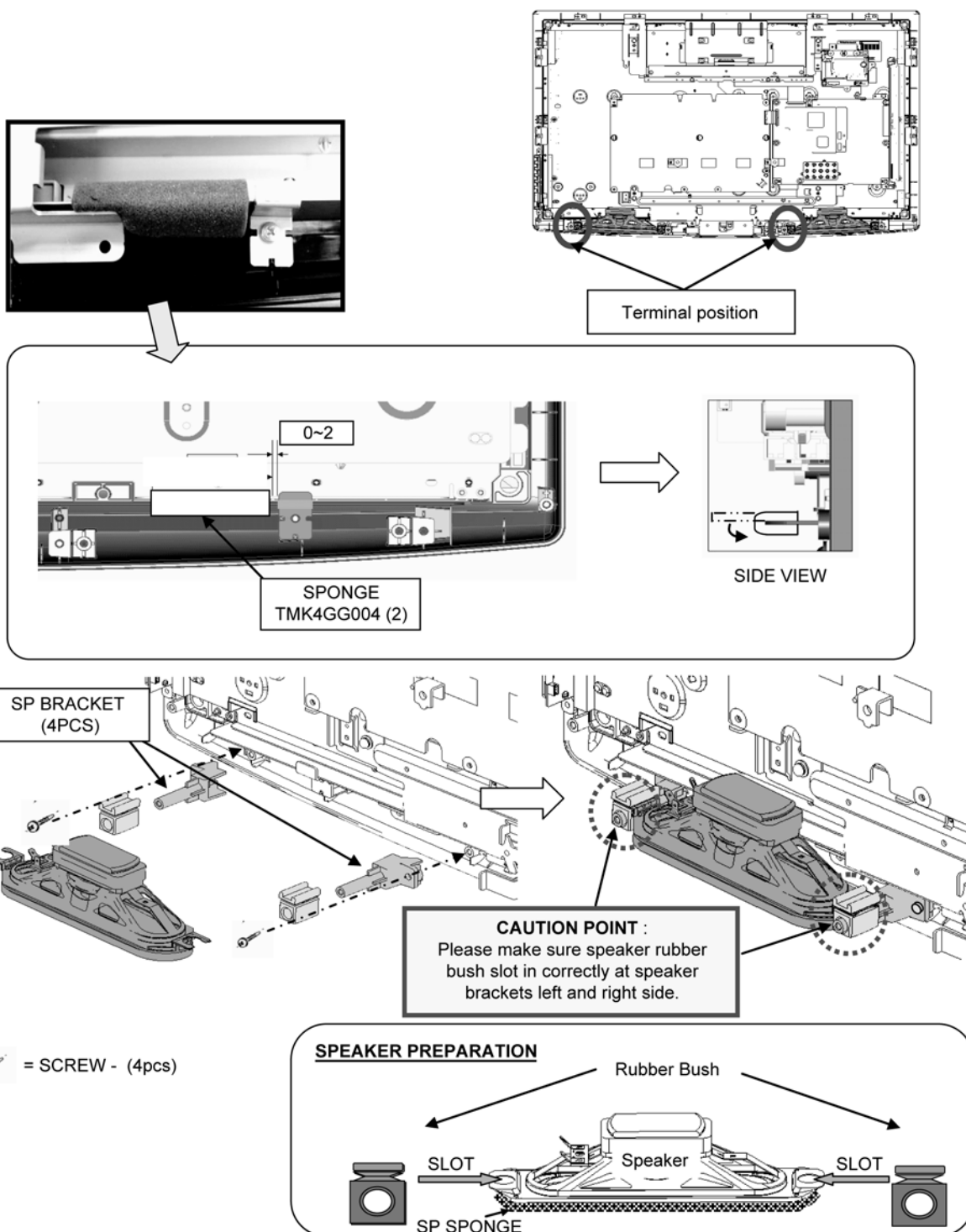
7.9. Side AV Bracket Assembly

- STICK FELT TMK4G028 (7 X 240 X 0.55t) - 2 PCS.



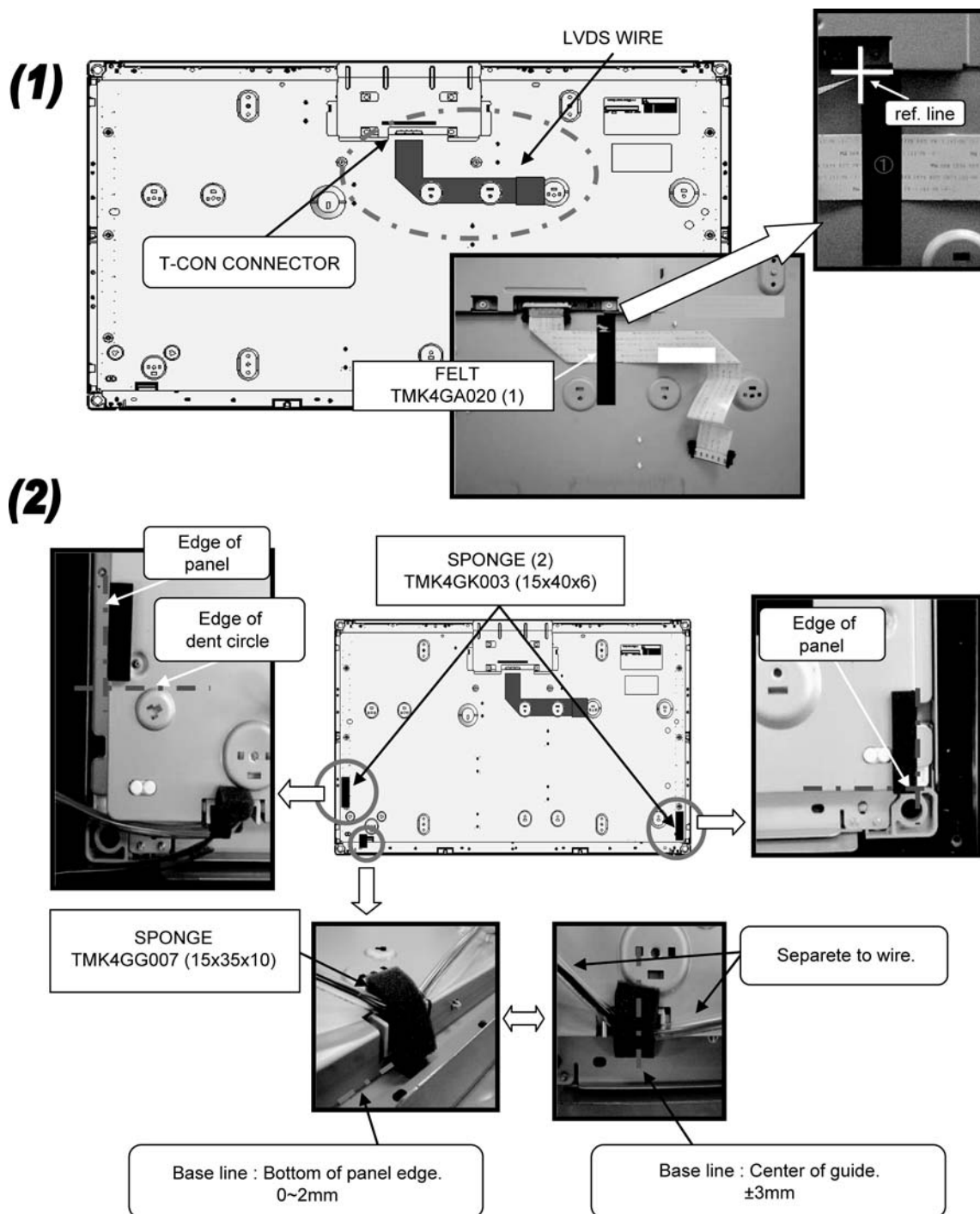
7.10. Speaker Installation

1. Stick the SPONGE. Follow the spec. below.
2. SP BRACKET slot at CABINET.
3. Insert the SP RUBBER BUSH into the SP UNIT.
4. Insert the SP UNIT to SP BRACKET.
5. Fix them with SCREWS.



7.11. LCD Panel

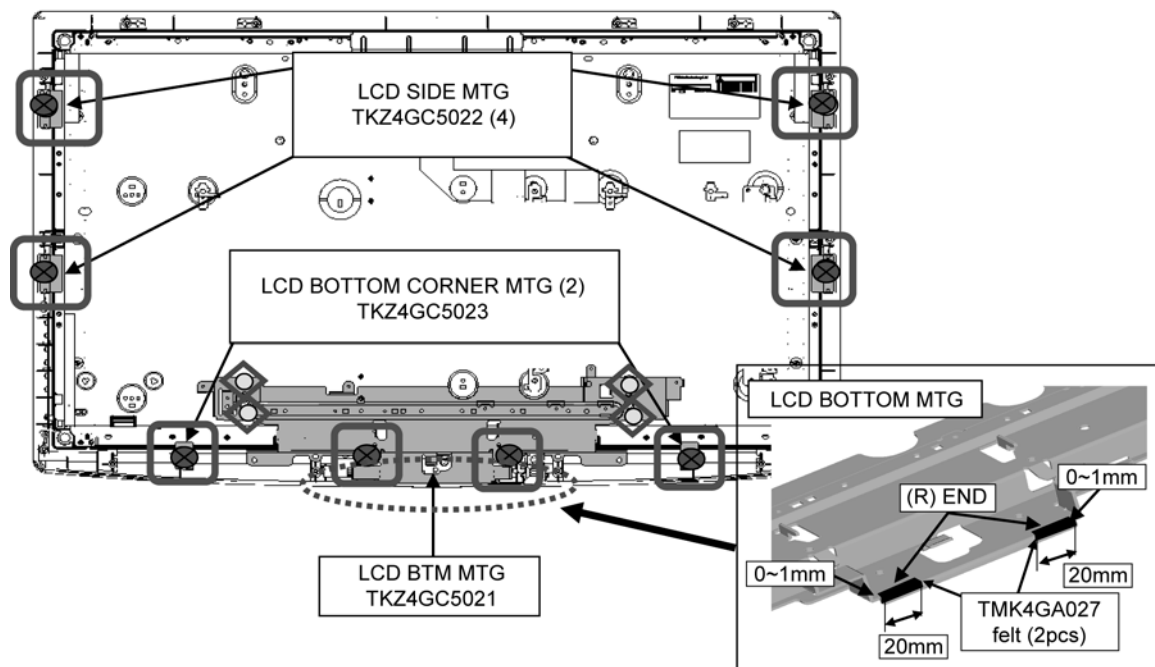
1. Remove dust of terminal of LVDS. (by ion blow)
2. Remove dust of terminal of T-con connector. (by ion blow)
3. Insert LVDS into T-con connector.
4. Stick the tape to fix LVDS.
5. Stick the SPONGE at left and right lcd panel.
6. Stick 1pc SPONGE between lcd panel wire.



7.12. LCD Mounting Fixing

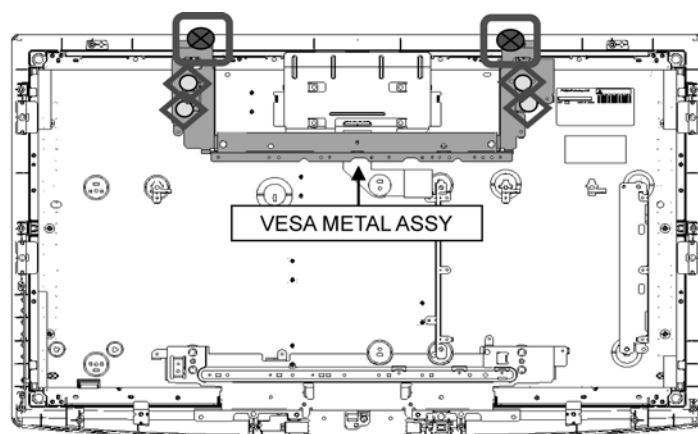
Step 1

1. LCD SIDE MTG on the CABINET.
2. LCD BTM MTG on the CABINET.
3. LCD BOTTOM CORNER MTG on the CABINET.
4. Fix them with SCREW.



Step 2

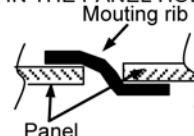
1. Assemble LCD TOP MTG (L, R), VESA METAL (upper) and fix them with SCREWS.
2. Put on the VESA METAL ASSY on the LCD PANEL.
3. Fix the VESA METAL ASSY with SCREW.



⊗ = 10 PCS SCREW ~ XTB4 + 15JFJ 【 $90 \pm 10 \text{ N}\cdot\text{cm}$ / $9 \pm 1 \text{ Kgfc}\cdot\text{m}$ 】

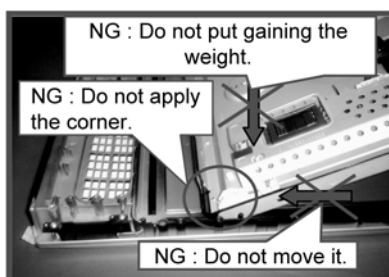
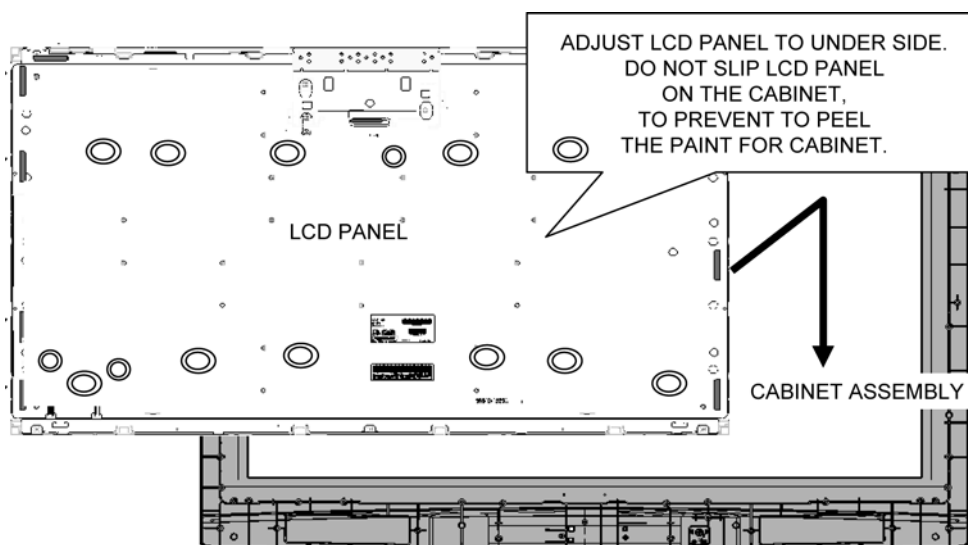
⬡ = 8 PCS SCREW ~ XYN4 + F6FJ 【 $130 \pm 10 \text{ N}\cdot\text{cm}$ / $13 \pm 1 \text{ Kgfc}\cdot\text{m}$ 】

PICTURE A-A.
CAUTION POINT :
ENSURE MTG RIB PROPERLY
LOCK IN THE PANEL HOLE.



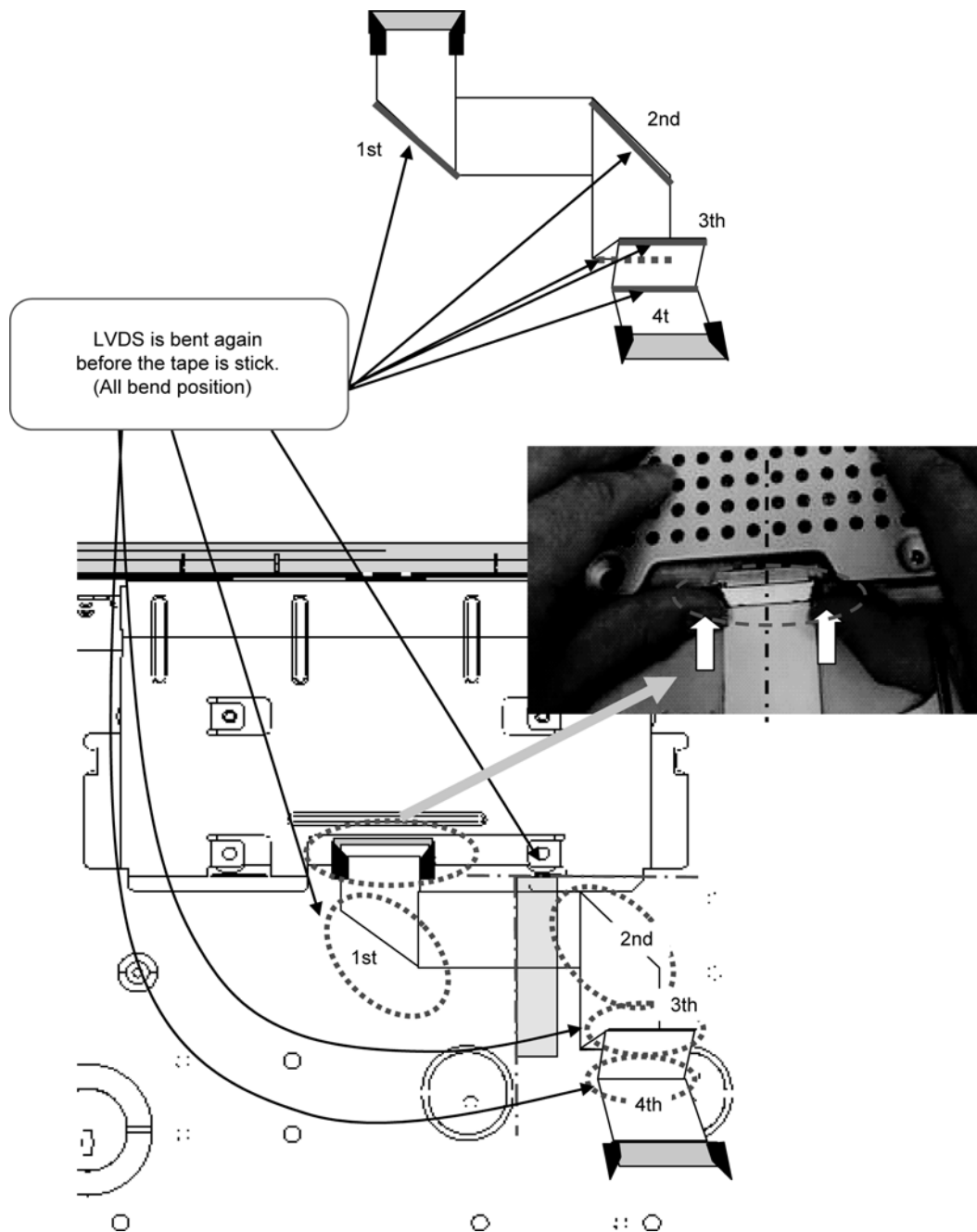
7.13. LCD Panel Assembly Installation

1. Put LCD panel to cabinet assembly.



7.14. EMI Spec (LVDS)

1. When insert LVDS wire to T-con connector, make sure must center position follow bellow picture.
2. After fixing LVDS wire please bent again follow the picture.

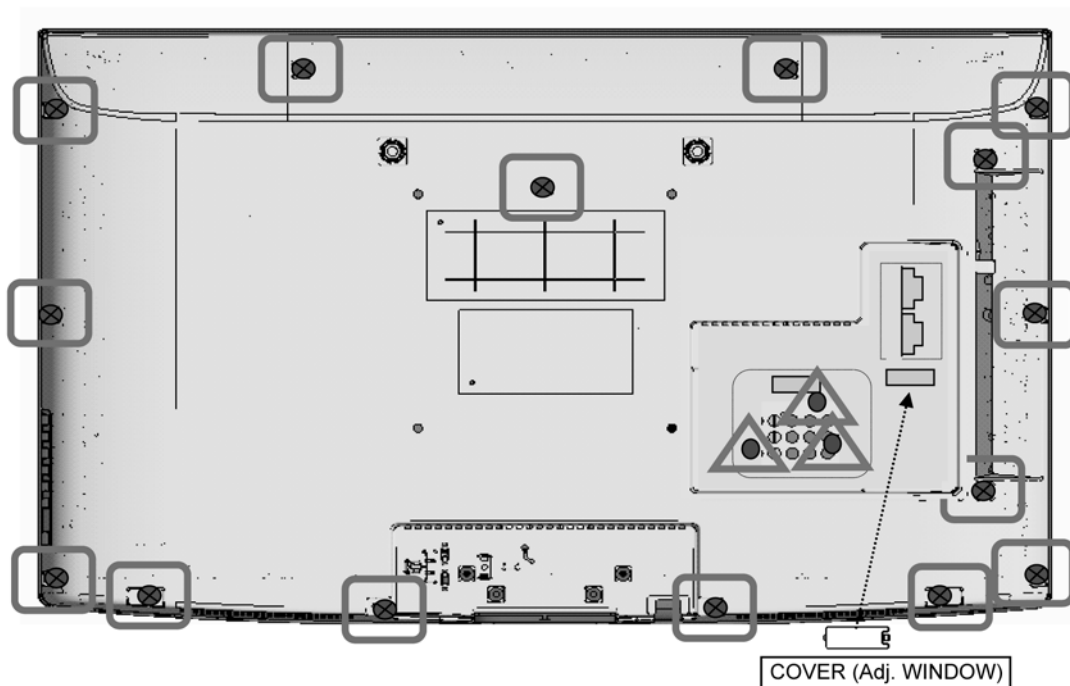


7.15. Back Cover Screw

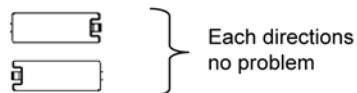
1. Fix the BACK COVER with SCREWS.
2. Insert COVER (Adj.window).

CAUTION POINT :

Please make sure cabinet protection tape not fold in back cover.



CONNECTOR COVER

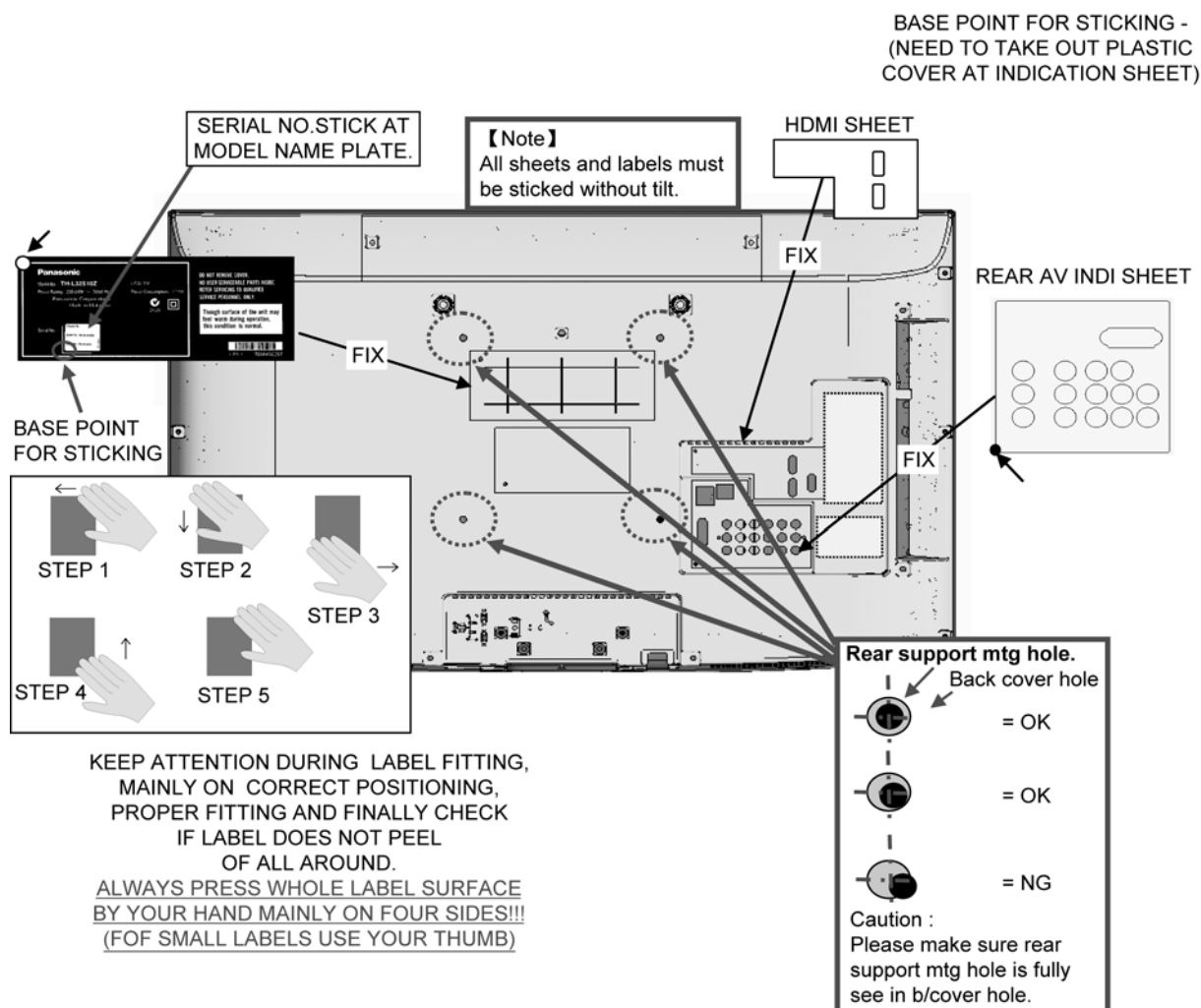


 = SCREW - XTB4 + 18GJFJK (15) $[100 \pm 10 \text{ N} \cdot \text{cm} / 10 \pm 1 \text{ Kgfc} \cdot \text{m}]$

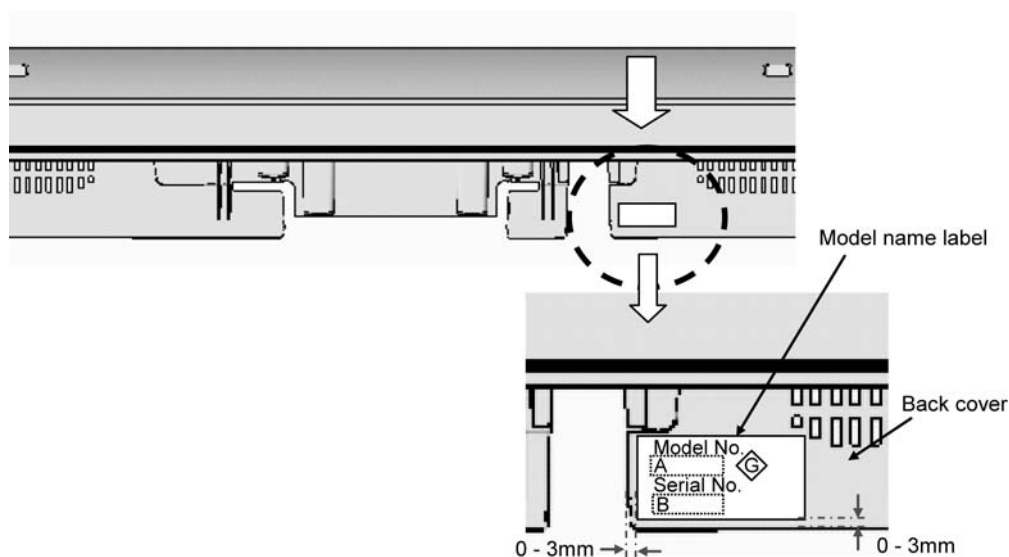
 = SCREW - XTV3 + 8GFJK (3) $[60 \pm 10 \text{ N} \cdot \text{cm} / 6 \pm 1 \text{ Kgfc} \cdot \text{m}]$

7.16. Indication Sheet Sticking Position

Stick the HDMI/REAR AV/MODEL NAME SHEET.



Stick model no. at bottom back cover (Stick area no etching).



8 Service Mode Adjustment

Set timer to 30min, press the “RECALL” button on the remote control and press “-” vol button on the LCD panel.

- Press button R and G for adjustment.

8.1. Self Check Mode

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

8.2. 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”, then press “EXIT” to come out.

8.3. 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] : Hold Vol [Down] + [Remote] : Press AV button 3 times.

Then, the Hotel mode setup menu is displayed.

Hotel Mode	
Hotel Mode	Off
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum Vol Level	100
Button Lock	Off
Remote Lock	Off

Select


 EXIT
 Change
 RETURN

Item	Function
Hotel Mode	Select hotel mode ON/OFF
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : OFF/Analogue TV/Digital TV/AV1/AV2/AV3//PC/HDMI1/HDMI2/HDMI3 • Off: give priority to a last memory. • Selectable input is depend on the model.
Initial POS	Select programme number. Selection : Off/0 to 100 • Off: give priority to a last memory.
Initial VOL level	Adjust the volume when each time power is switched on. Selection/Range : Off/0 to 100 • Off: give priority to a last memory.
Maximum VOL level	Adjust maximum volume. Range : 0 to 100
Button lock	Select local key conditions. Selection : Off/SETUP/MENU/All • Off: altogether valid. • SETUP: only F-key is invalid. (Tuning guide (menu) can not be selected.) • MENU: only F-key is invalid. (only Volume/Mute can be selected.) • ALL: altogether invalid.
Remote lock	Select remote control key conditions. Selection : Off/SETUP/MENU • Off: altogether valid. • SETUP: only Setup menu is invalid. • MENU: Picture/Sound/Setup menu are invalid.

9 Measurements and Adjustments

9.1. Voltage Chart of A Board

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

Power Supply Name	Measurement Point	Specification (V)
		TNP4G460 / TNP4G461
SUB1.2V	TP5602	1.22 - 1.32
SUB1.8V	TP5601	1.78 - 1.91
SUB3.3V	TP5600	3.21 - 3.45
SUB9V	TP5409	8.76 - 9.45
SUB5V	TP5405	4.82 - 5.18
BT30V	TP5482	29.3 - 31.5

9.2. Voltage Chart of P Board

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

Power Supply name	Measurement Point	Normal condition (V)	Standby condition (V)
24V	TPP034	24.0 ± 1.2	< 3.0
12V	TPP033	12.0 + 0.6 / -0.45	< 1.0
Audio Vcc	TPP028	16.4 ± 0.7	< 3.0
STBY_6V	TPP040	5.8 ± 0.3	5.8 ± 0.3

After inspection, discharge the C7218 with 1kΩ resistor for 0.3 sec. or more.

9.3. Target of White Balance adjustment value

Ambient Temp.	Colour Balance	White			Gray		
		x	y	Y (cd/m2)	x	y	Y (cd/m2)
22.5 - 27.5 deg.	Cool	0.271	0.275	>300	0.271	0.275	Don't Care
	Normal	0.284	0.297		0.284	0.297	
	Warm	0.314	0.324		0.314	0.324	

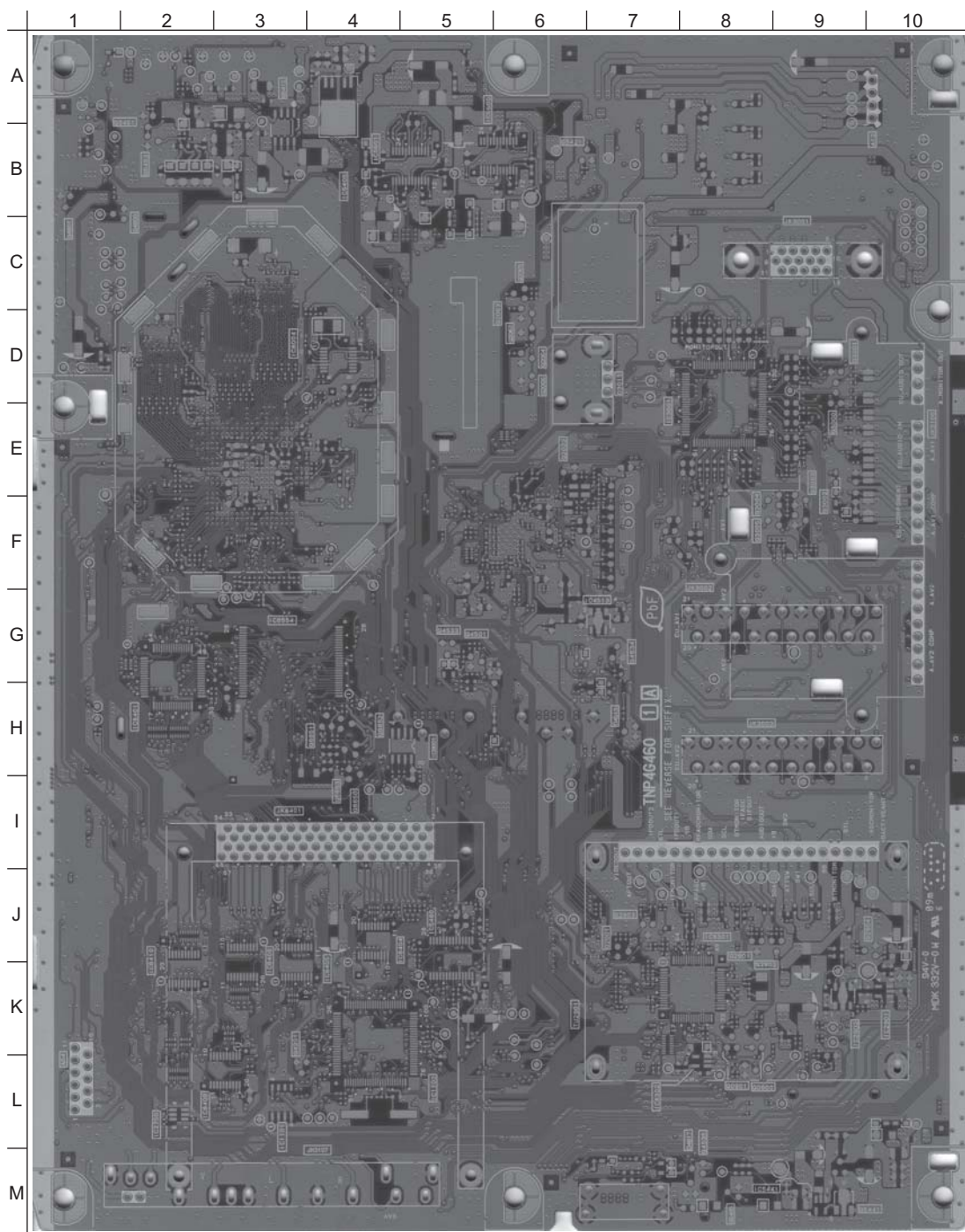
Clearance

x, y : +/-0.005 in Cool Colour Balance, +/-0.010 in Warm/Normal Colour Balance

10 Printed Circuit Board

10.1. A-Board

A-Board (A Side)
TNP4G460

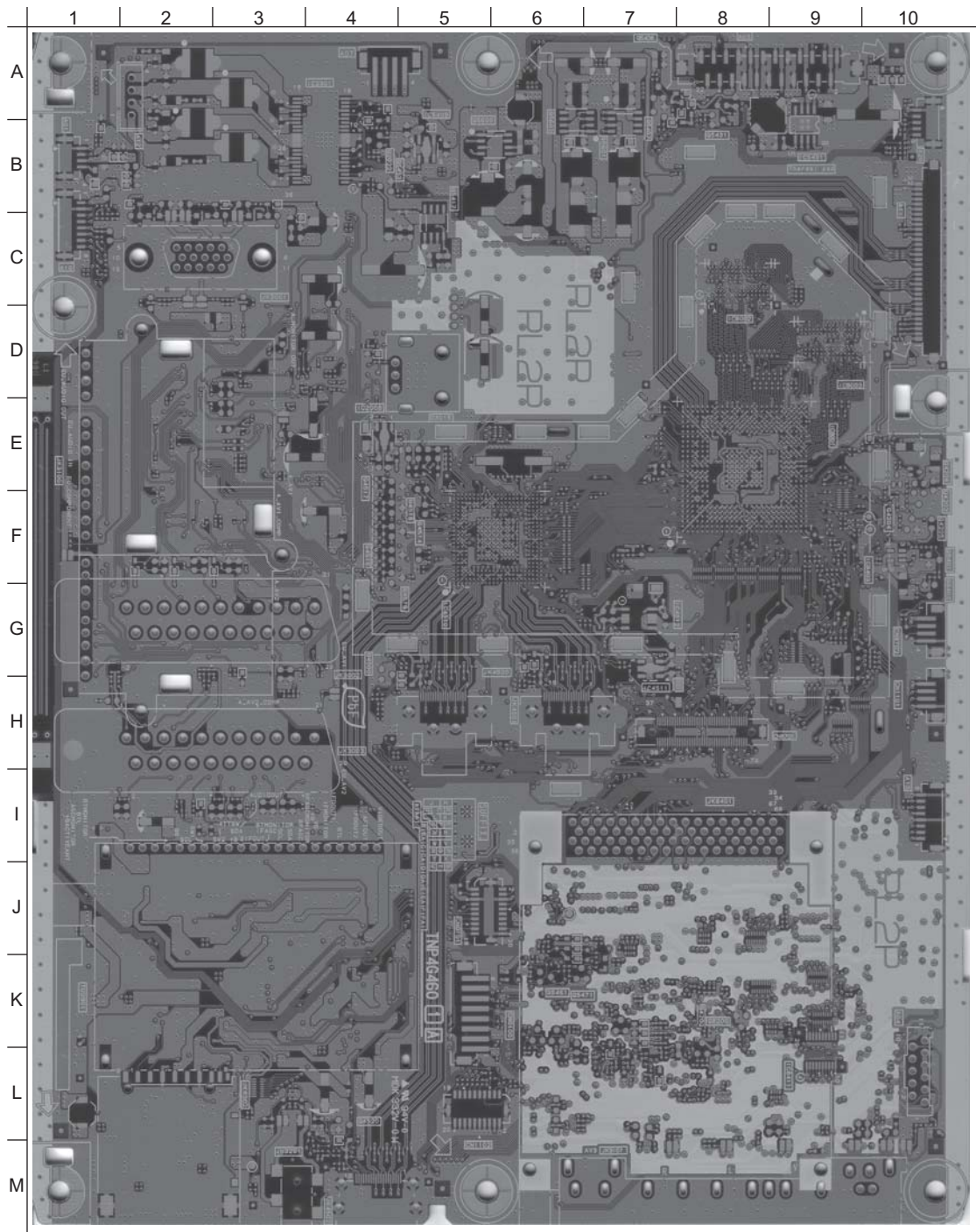


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC1100	K4	IC5441	M9	IC8404	J4	D3015	D7
IC1101	L3	IC5480	J5	IC8405	J3	D4513	H7
IC2750	L2	IC5600	B5	IC8408	J3	D4617	L8
IC2901	K10	IC5601	B5	IC8409	L2		
IC2902	K9	IC8004	D4	IC8410	J2		
IC3001	D8	IC8301	K8	IC8554	G3		
IC4513	G7	IC8302	L8	IC8601	H5		
IC5405	B4	IC8401	H2				

10.2. A-Board

A-Board (B Side)
TNP4G460



Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC2008	E4	IC4512	G7	IC8002	C8	D3015	E5
IC2301	A4	IC5409	B5	IC8003	D9		
IC4510	F5	IC5451	B9	IC8403	F10		
IC4511	G7	IC8001	E9	IC8411	L9		

11 Schematic Diagram

11.1. Schematic Diagram Notes

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes :

1. Resistor

Unit of resistance is OHM [Ω] (K = 1 000, M = 1 000 000).

2. Capacitor

Unit of capacitance is μ F unless otherwise noted.

3. Coil

Unit of inductance is μ 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 using DC voltmeter.

Conditions of the measurement are the following :

Power Source.....AC AUTO 110-240 V, 50/60 Hz

Receiving Signal.....Colour Bar signal (RF)

All customer's controls.....Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table)

8. When an arrow mark () is found, connection is easily found from the direction of the arrow.

9. Indicates the major signal flow: Video Audio

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks :

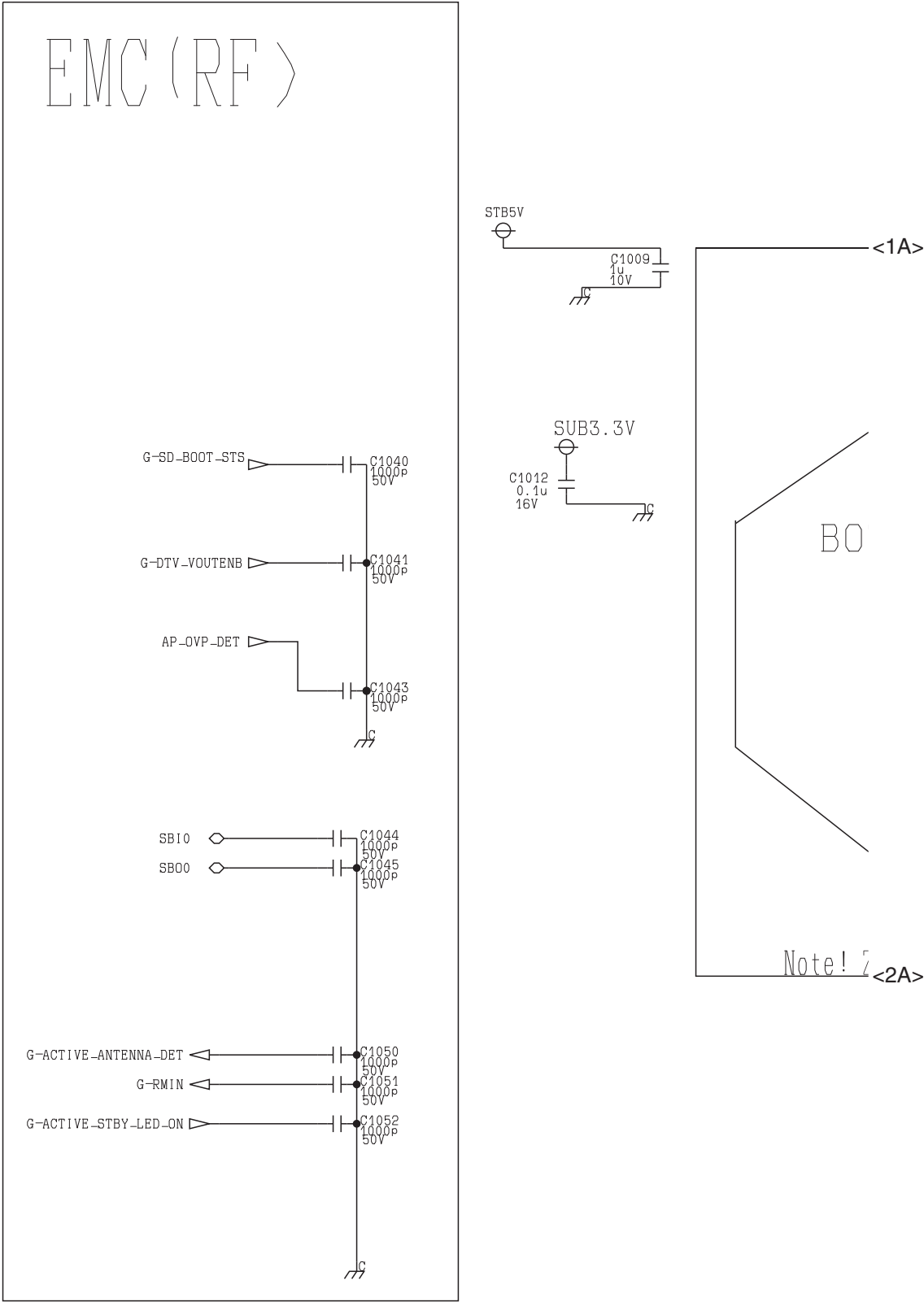
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions: All circuits, except the Power Circuit are cold.

Precautions:

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
- c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse may blow. Connect the earth of instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

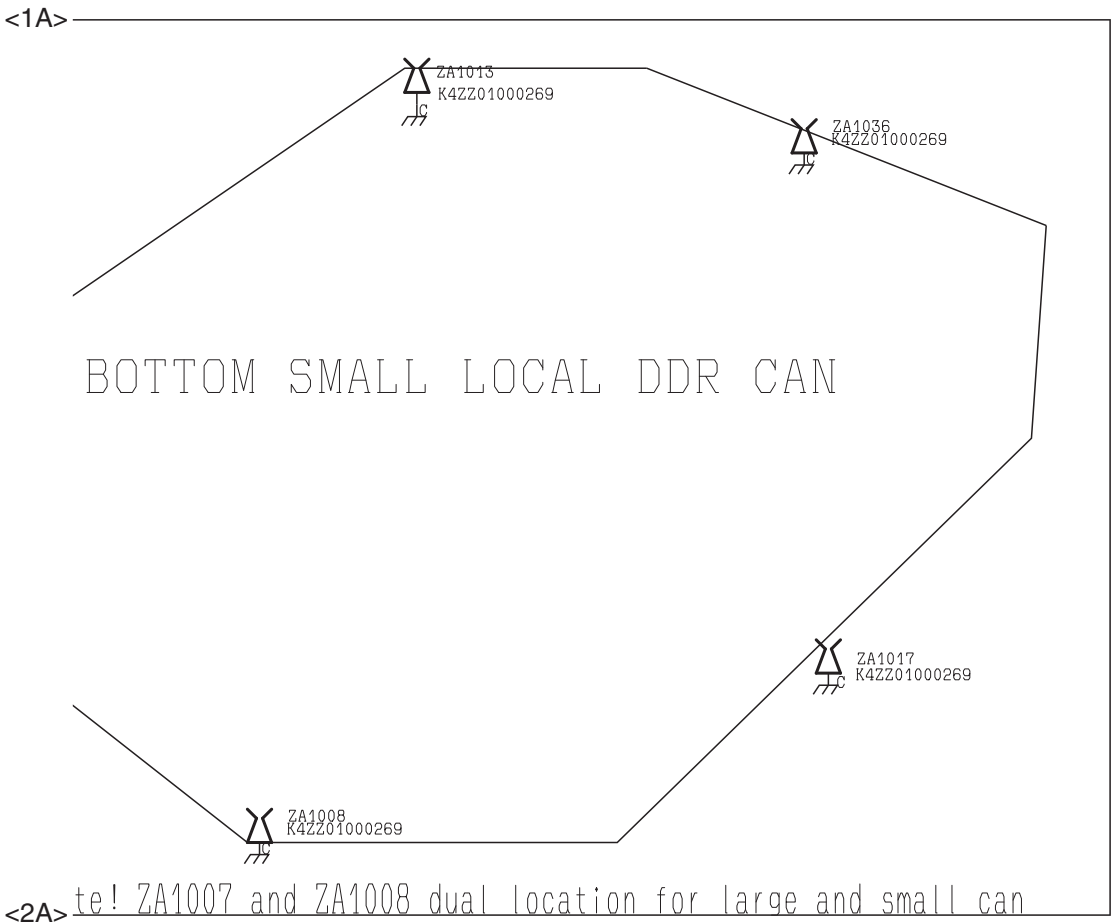
11.2. A Board

11.2.1. A Board - Sheet : 001 (1 / 2)

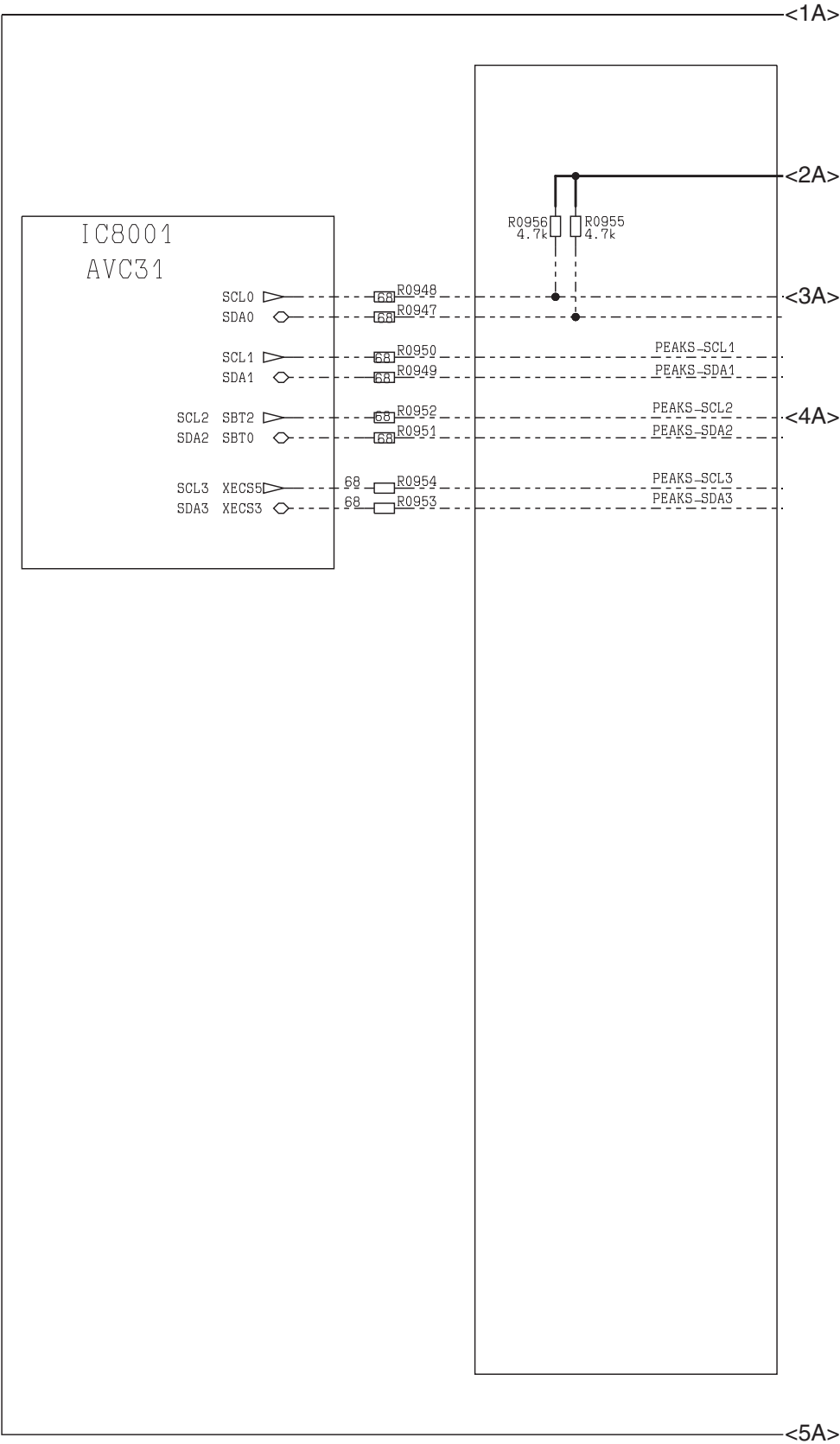


11.2.2. A Board - Sheet : 001 (2 / 2)

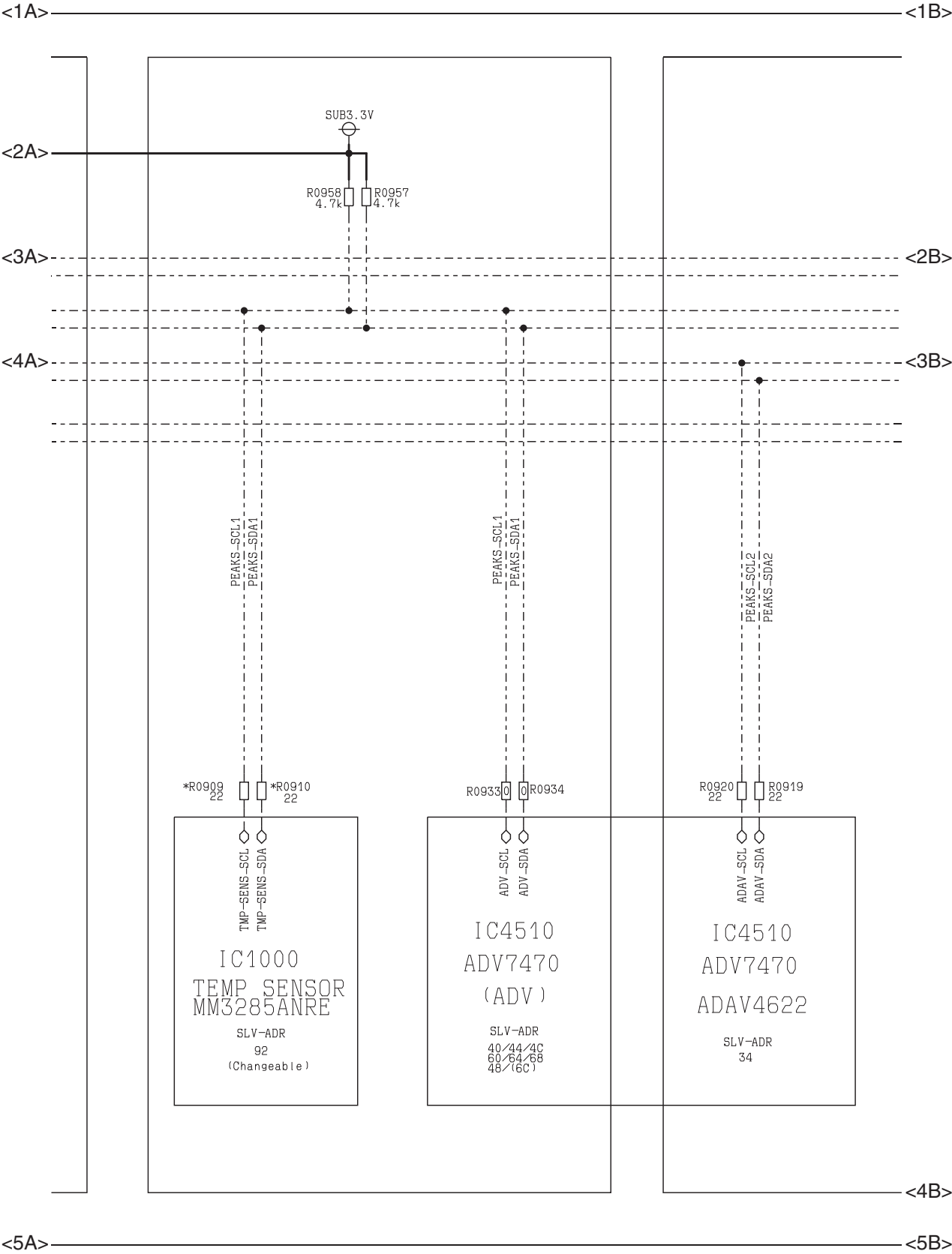
BOTTOM LARGE CAN



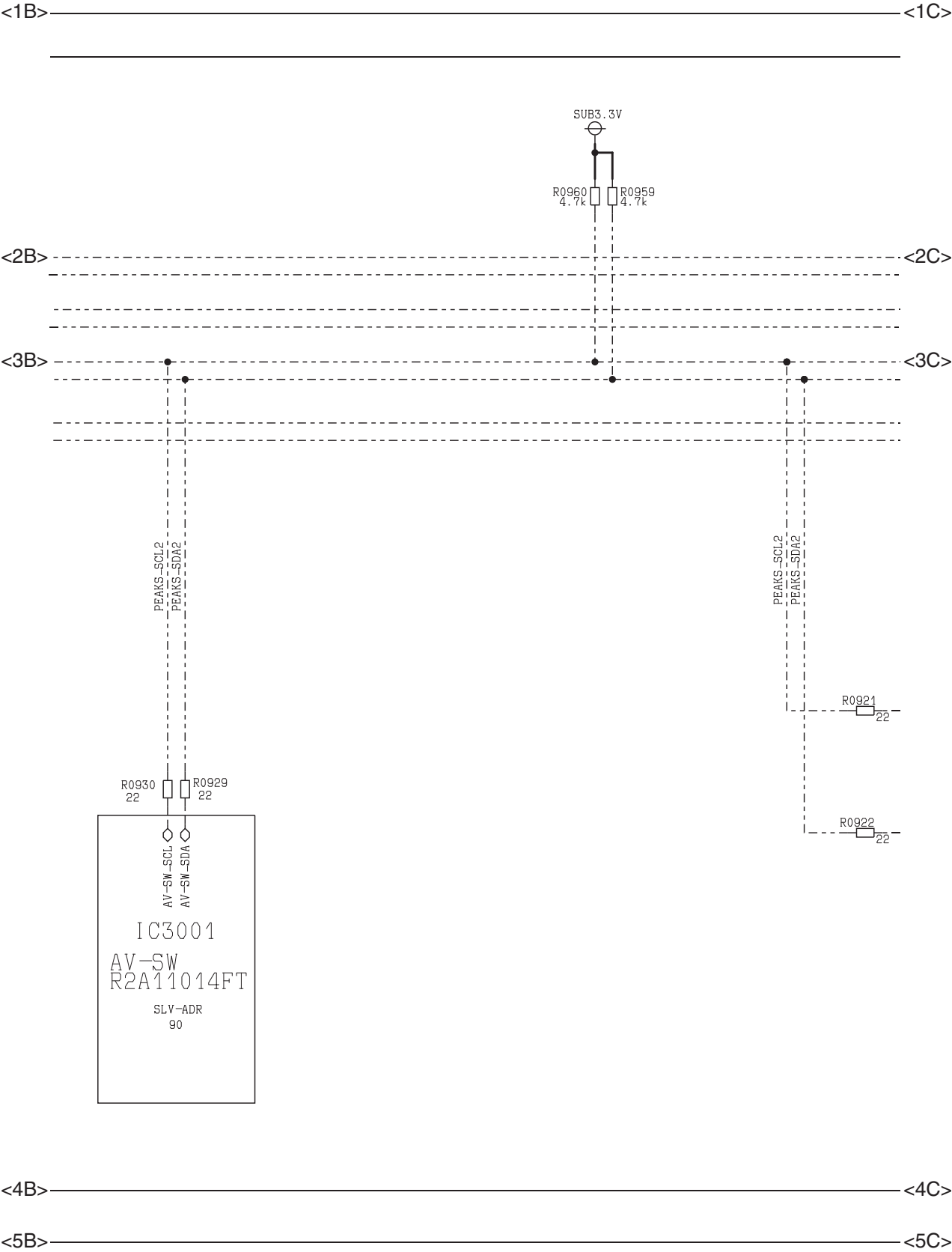
11.2.3. A Board - Sheet : 002 (1 / 8)



11.2.4. A Board - Sheet : 002 (2 / 8)



11.2.5. A Board - Sheet : 002 (3 / 8)

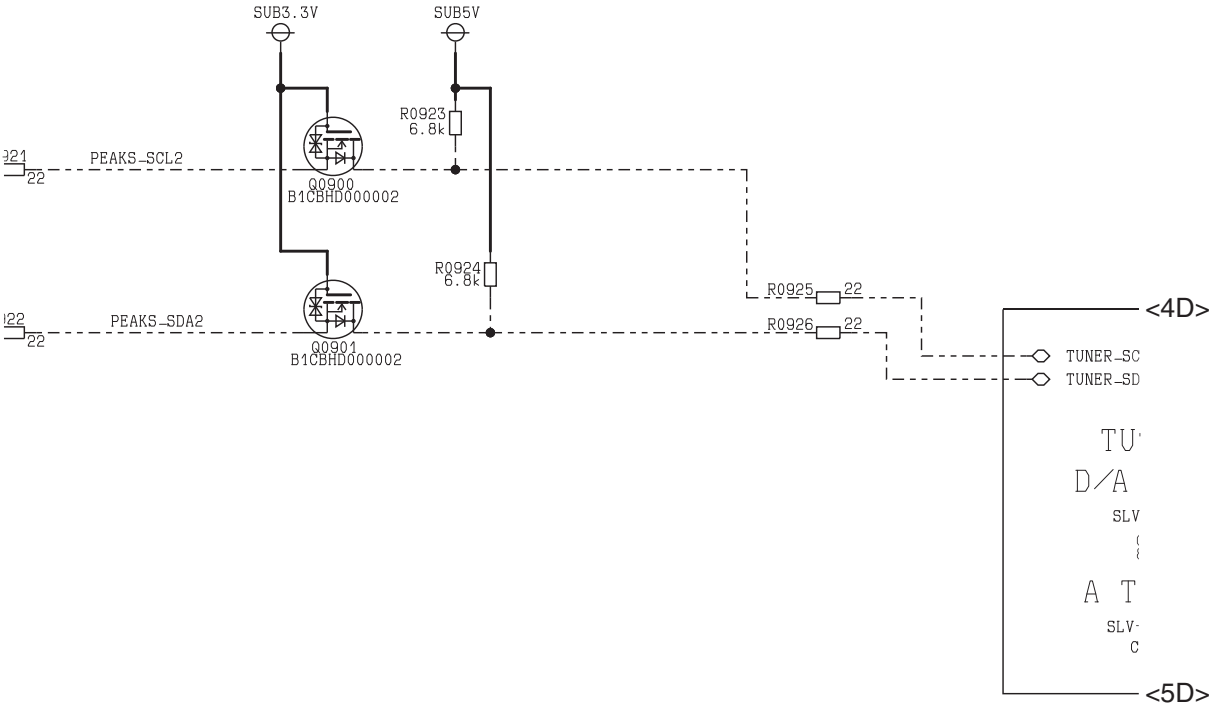


11.2.6. A Board - Sheet : 002 (4 / 8)

<1C> _____ <1D>

<2C> _____ <2D>

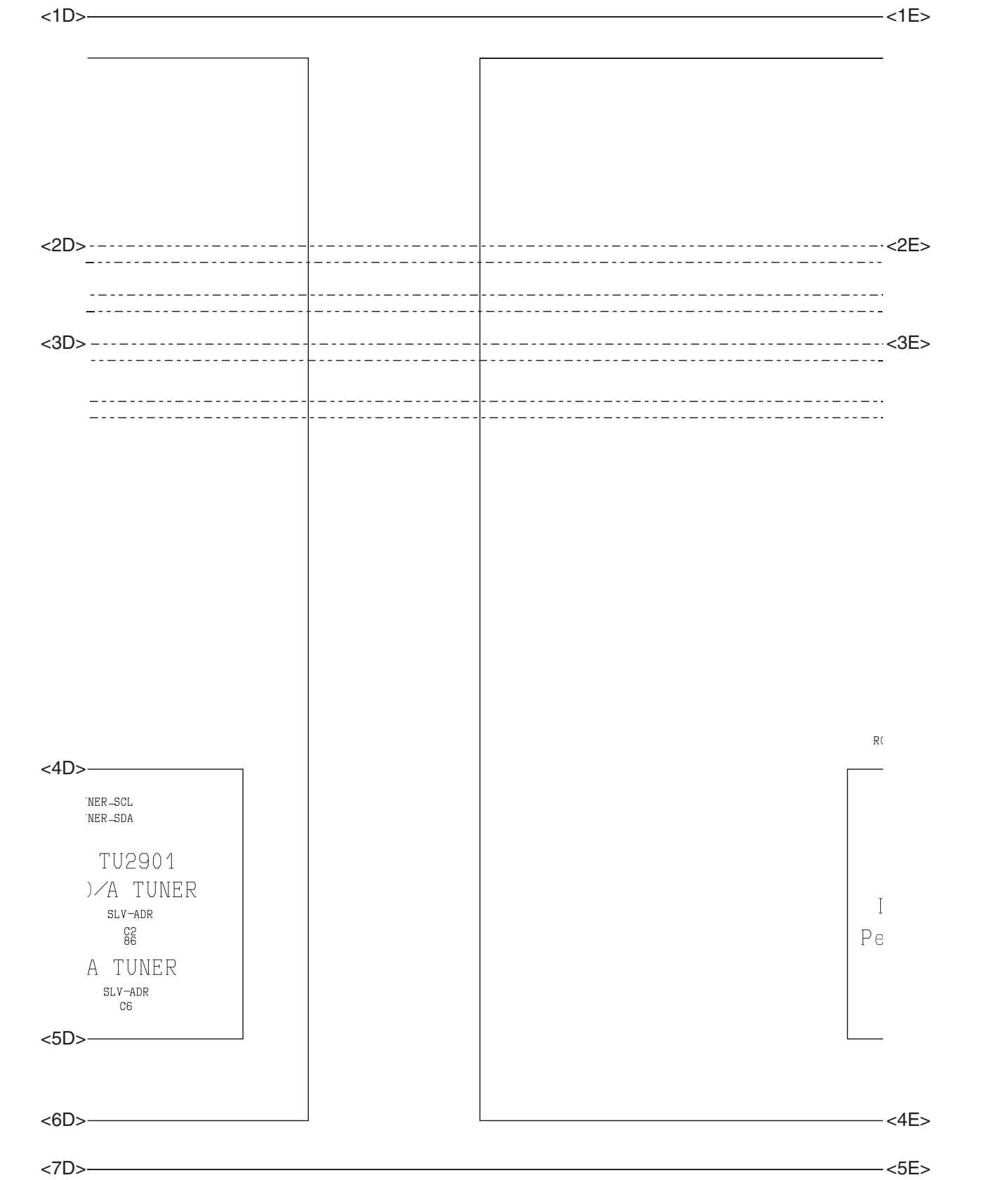
<3C> _____ <3D>



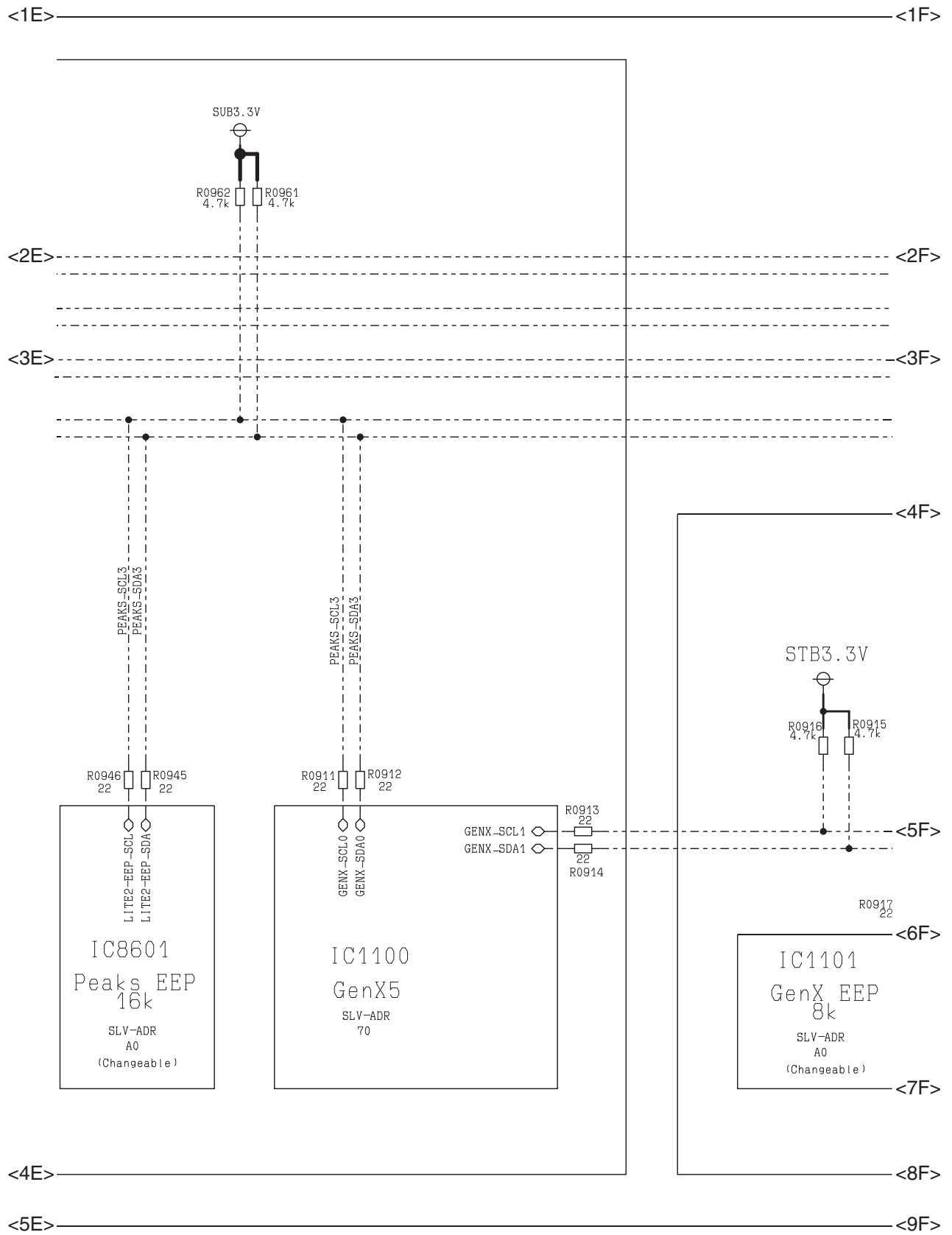
<4C> _____ <6D>

<5C> _____ <7D>

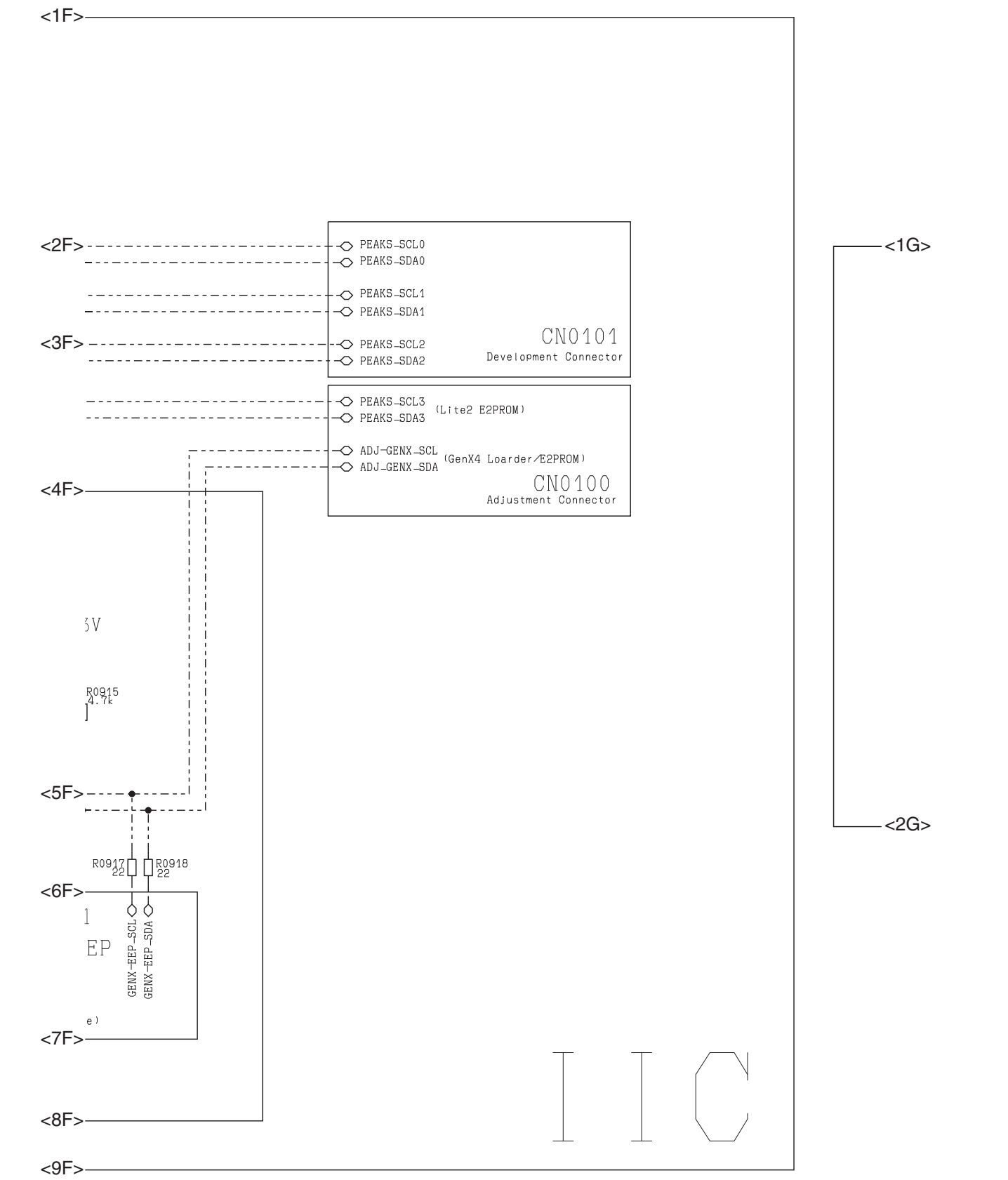
11.2.7. A Board - Sheet : 002 (5 / 8)



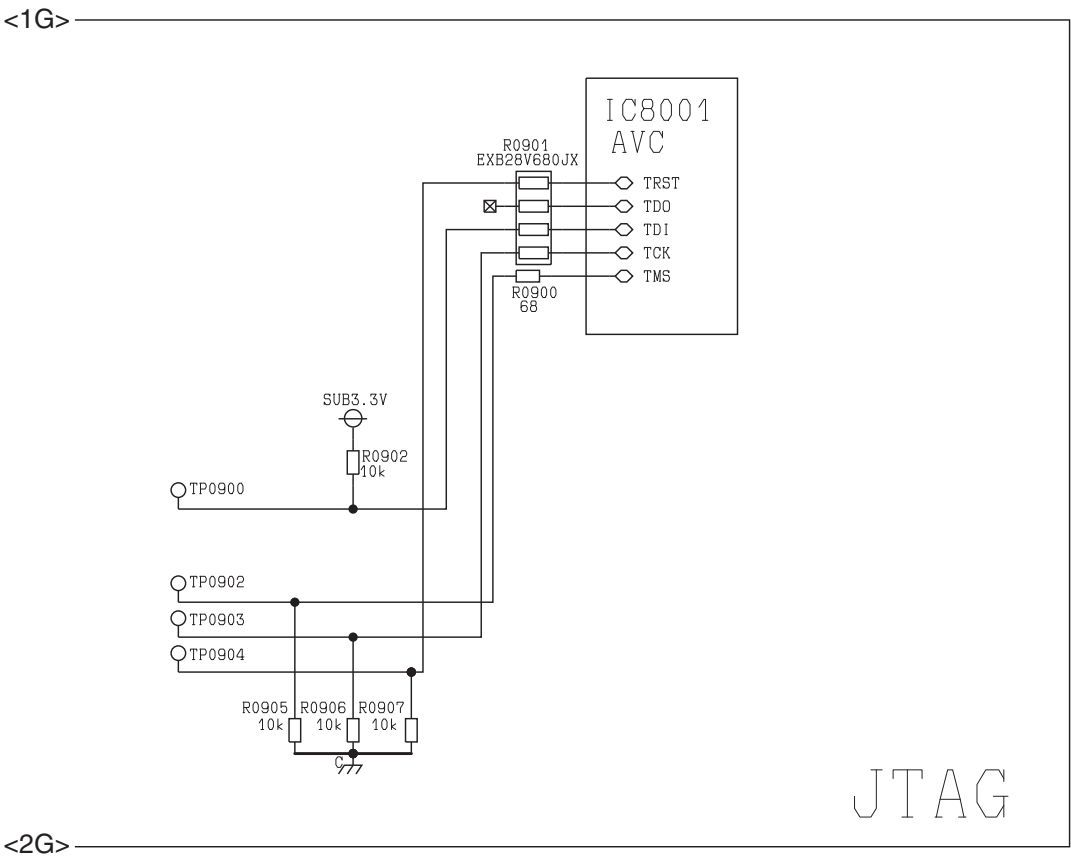
11.2.8. A Board - Sheet : 002 (6 / 8)



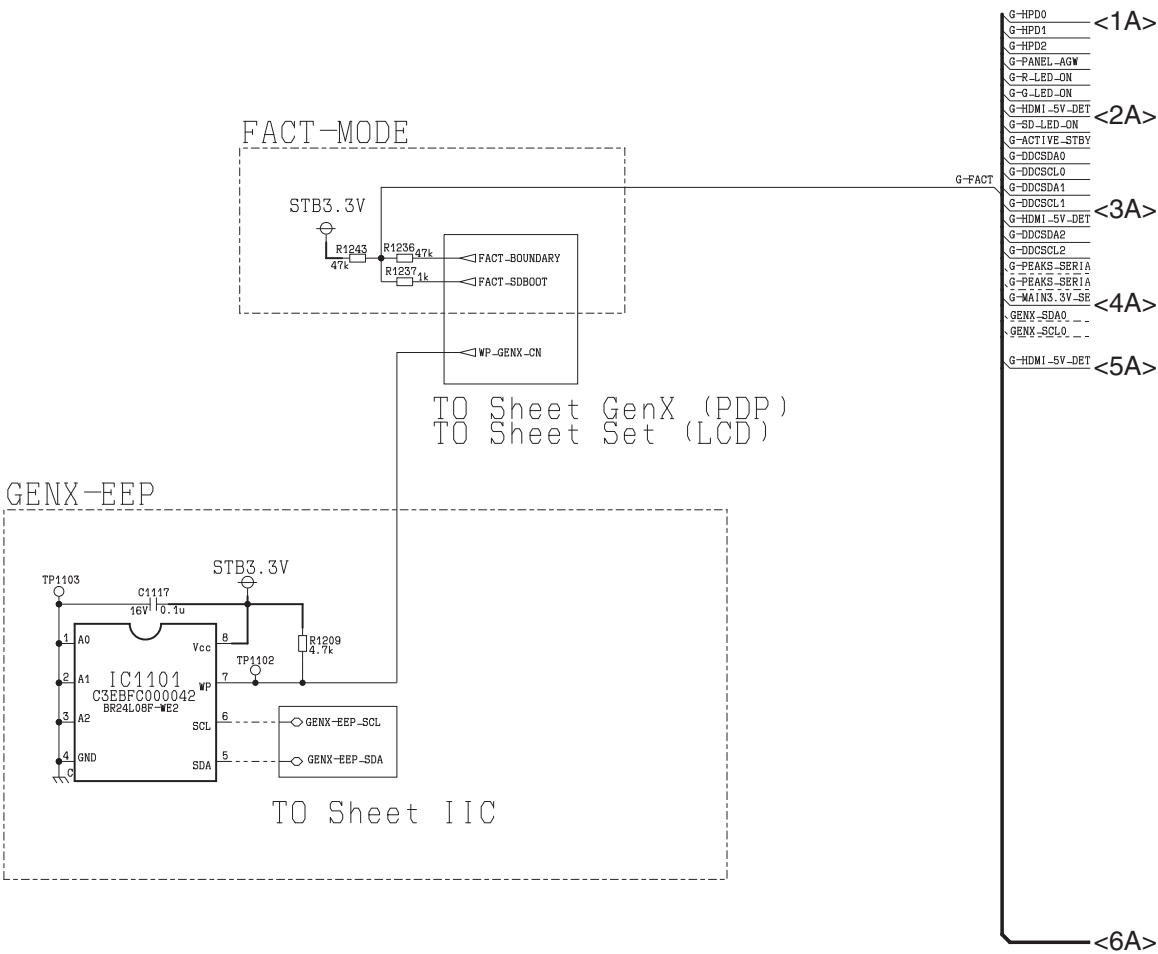
11.2.9. A Board - Sheet : 002 (7 / 8)



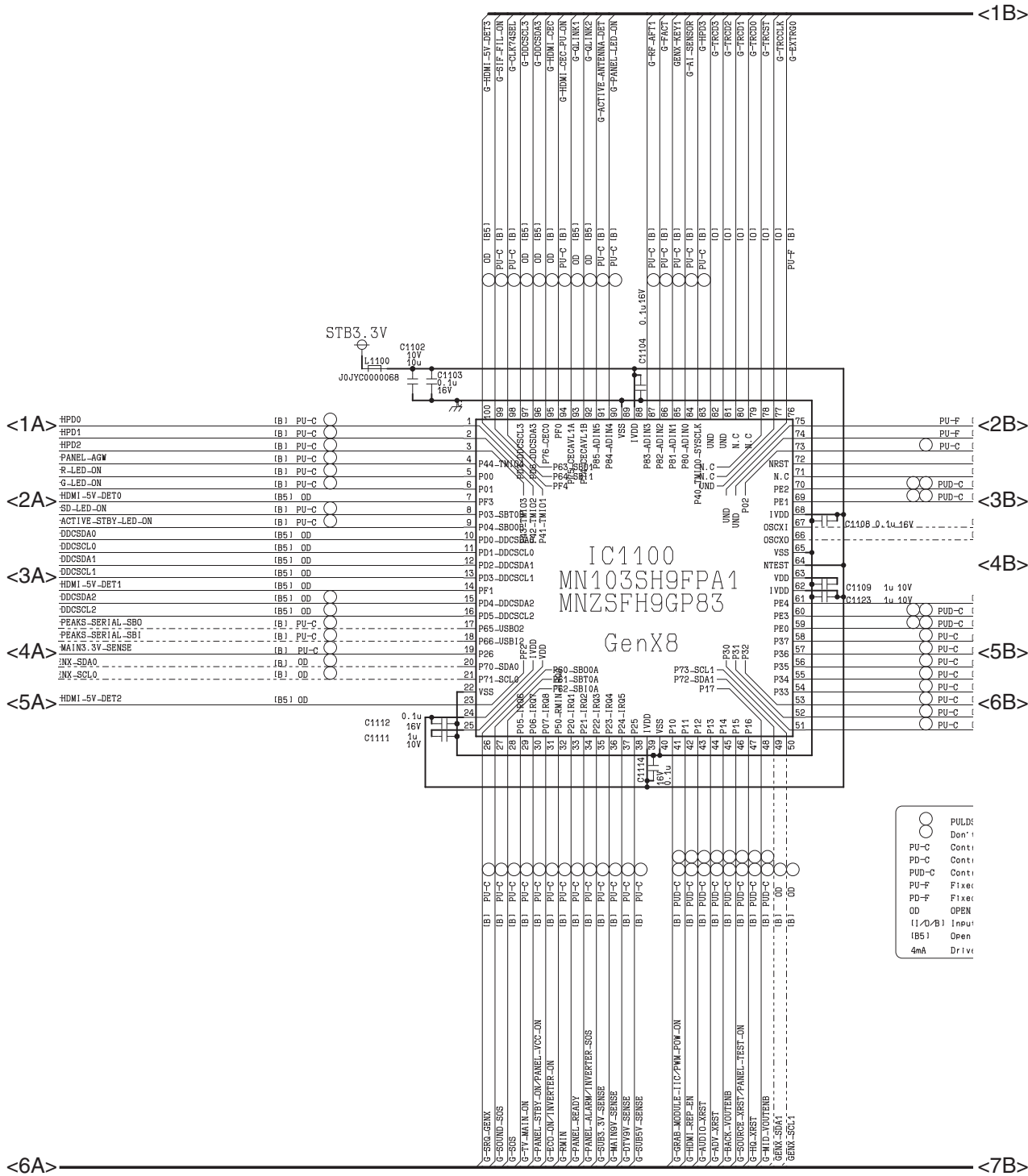
11.2.10. A Board - Sheet : 002 (8 / 8)



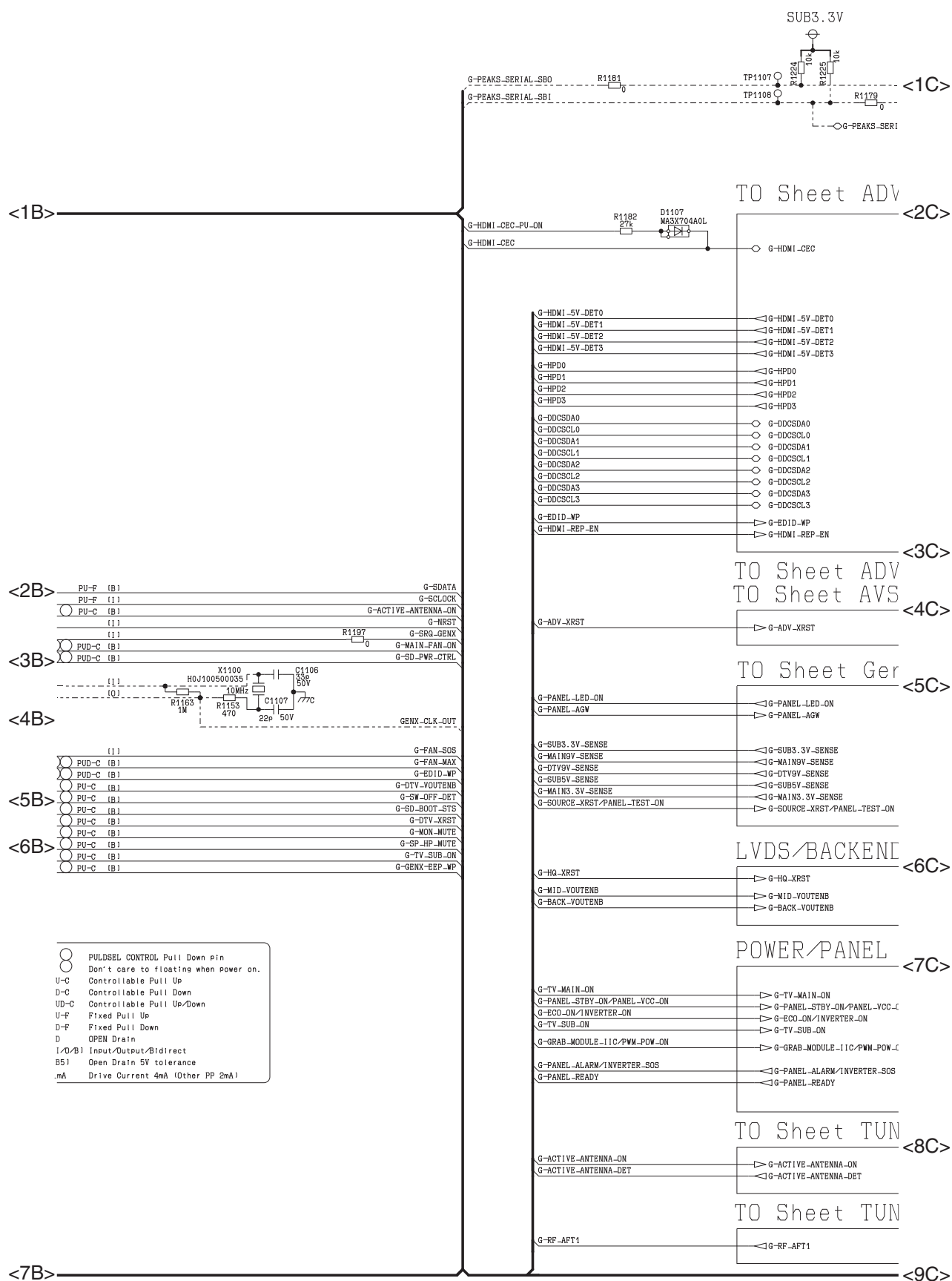
11.2.11. A Board - Sheet : 003 (1 / 6)



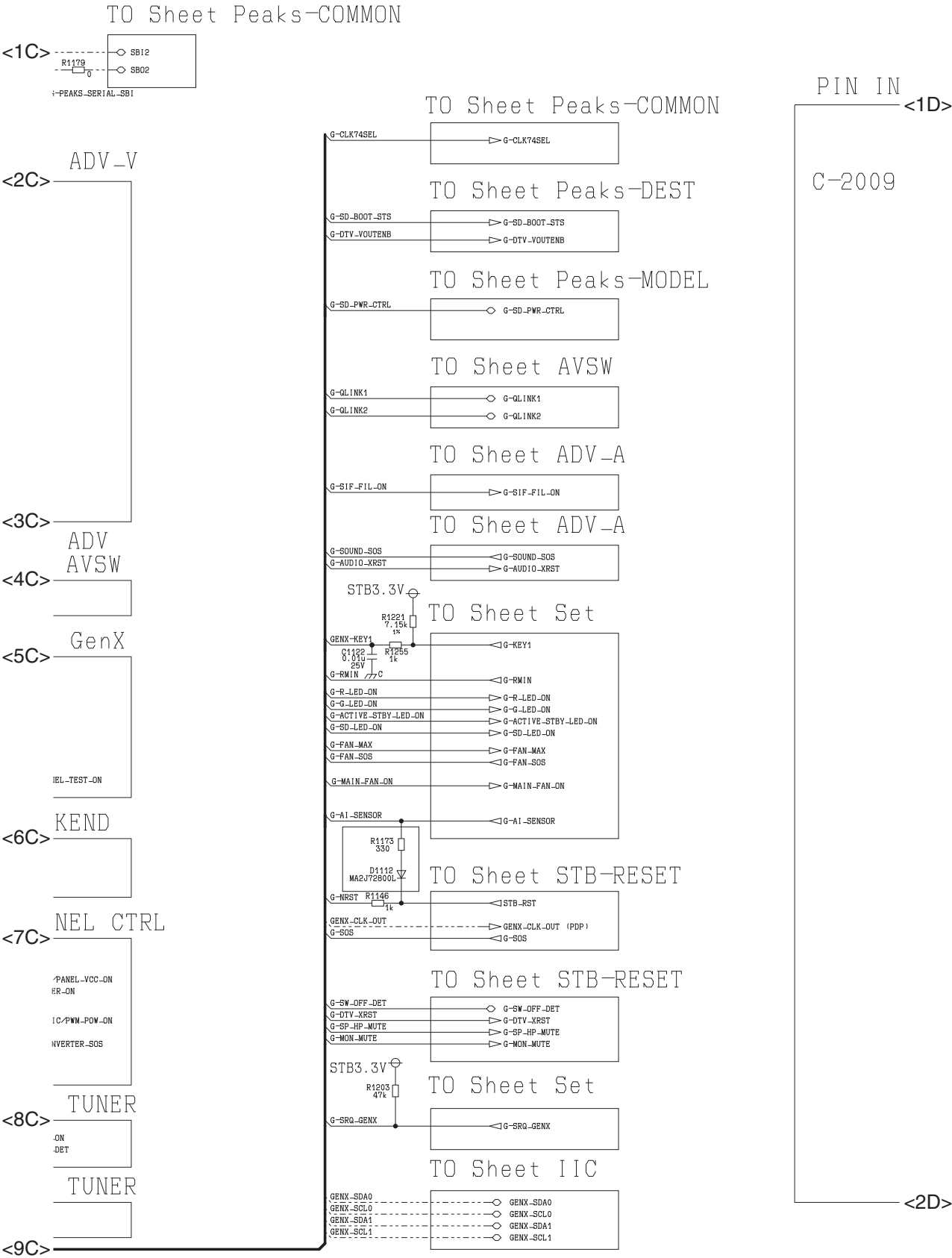
11.2.12. A Board - Sheet : 003 (2 / 6)



11.2.13. A Board - Sheet : 003 (3 / 6)



11.2.14. A Board - Sheet : 003 (4 / 6)



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

<1D> N INFORMATION

2009_shigen080703.xls

R-LED-ON - DIR: 0 L, OFF H, ON STB-STS, H
G-LED-ON - DIR: 0 L, OFF H, ON STB-STS, L
(Active-Antenna-ON) - DIR: 0 L, OFF H, ON STB-STS, L
SD-LED-ON - DIR: 0 L, OFF H, ON STB-STS, L
ACTIVE-STBY-LED-ON - DIR: 0 L, OFF H, ON STB-STS, L
TV-MAIN-ON - DIR: 0 L, OFF H, ON STB-STS, L
PANEL-STBY-ON/PANEL-VCC-ON - DIR: 0 L, OFF H, ON STB-STS, L
ECO-ON/INVERTER-ON - DIR: 0 L, NORMAL/OFF H, ECO-ON STB-STS, H/L
GRAB-MODULE-IIC/PWM-POW-ON - DIR: 0 L, Peaks-GenX6/OFF H, GenX5-GenX6-ON STB-STS, L
HDMI-REP-EN - DIR: 0 L, DISABLE H, ENABLE STB-STS, L
AUDIO-XRST - DIR: 0 L, RESET H, ACTIVE STB-STS, L
ADV-XRST - DIR: 0 L, RESET H, ACTIVE STB-STS, L
BACK-VOUTENB - DIR: 0 L, OFF H, OUTPUT STB-STS, L
SOURCE-XRST - DIR: 0 L, RESET H, ACTIVE STB-STS, L
HQ-XRST - DIR: 0 L, RESET H, ACTIVE STB-STS, L
MID-VOUTENB - DIR: 0 L, OFF H, OUTPUT STB-STS, L
PANEL-READY - DIR: 1 L, comm-NG H, comm-OK STB-STS, -
PANEL-ALARM/INVERTER-SOS - DIR: 1 L, SOS/NORMAL H, NORMAL/SOS STB-STS, -
SUBS.3V-SENSE - DIR: 1 L, SHORT H, NORMAL STB-STS, -
MAIN9V-SENSE - DIR: 1 L, SHORT H, NORMAL STB-STS, -
DTV9V-SENSE - DIR: 1 L, SHORT H, NORMAL STB-STS, -
SUB5V-SENSE - DIR: 1 L, SHORT H, NORMAL STB-STS, -
MAIN3.3V-SENSE - DIR: 1 L, SHORT H, NORMAL STB-STS, -
GenX-EEP-WP - DIR: 0 L, Write H, PROTECT STB-STS, H
TV-SUB-ON - DIR: 0 L, OFF H, ON STB-STS, L
SP-HP-MUTE - DIR: 0 L, OUTPUT H, MUTE STB-STS, L
NON-MUTE - DIR: 0 L, OUTPUT H, MUTE STB-STS, L
DTV-XRST - DIR: 0 L, RESET H, ACTIVE STB-STS, L
SD-BOOT-STS - DIR: 0 L, NORMAL H, SDBOOT STB-STS, L
SW-OFF-DET - DIR: 1/O L, EMERGENCY H, NORMAL STB-STS, L
DTV-VOUTENB - DIR: 0 L, OFF H, OUTPUT STB-STS, L
HPD3 - DIR: 0 L, ENABLE H, DISABLE STB-STS, L
HPD0 - DIR: 0 L, ENABLE H, DISABLE STB-STS, L
HPD1 - DIR: 0 L, ENABLE H, DISABLE STB-STS, L
HPD2 - DIR: 0 L, ENABLE H, DISABLE STB-STS, L
<INV-PSU-ON> - DIR: 0 L, DISABLE H, ENABLE STB-STS, L
RMIN - DIR: RMIN L, - H, - STB-STS:
SRQ-GenX - DIR: 1 L, IIC STOP H, NORMAL STB-STS, -
SOUND-SOS - DIR: 1 L, NORMAL H, SOS STB-STS, -
SOS - DIR: 1 L, NORMAL H, SOS STB-STS, -
CLK74SEL - DIR: 0 L, 74.25 H, 74.1758 STB-STS, L
SIF-FIL-ON - DIR: 0 L, OFF H, ON STB-STS, L
Peaks-Serial-SBO - DIR: USB02 L, - H, - STB-STS, L
Peaks-Serial-SBI - DIR: USB12 L, - H, - STB-STS, L
SDA0 - DIR: IIC L, - H, - STB-STS, H
SCL0 - DIR: IIC L, - H, - STB-STS, H
SDA1 - DIR: IIC L, - H, - STB-STS, H
SCL1 - DIR: IIC L, - H, - STB-STS, H
QLINK2 - DIR: AVLINK Qlink for AV1 STB-STS:
QLINK1 - DIR: AVLINK Qlink for AV2 STB-STS:
HDMI-CEC - DIR: CEC L, HDMI CEC H, STB-STS:
AI-SENSOR - DIR: ADC L, Dark H, Bright STB-STS, -
KEY1 - DIR: ADC DAC STB-STS, -
FACT - DIR: ADC L, SD-Boot M, Boundary H, Ordinary STB-STS, -
RF-APT1 - DIR: ADC L, Local Upside H, Local Downside STB-STS, -
PANEL-LED-ON - DIR: 0 L, OFF H, ON STB-STS, L
(Active-Antenna-Det) - DIR: 1 L, Normal H, SHORT STB-STS, -
DDCSDA0 - DIR: DDC11C0 L, H, STB-STS:
DDCSCL0 - DIR: DDC11C0 L, H, STB-STS:
DDCSDA1 - DIR: DDC11C1 L, H, STB-STS:
DDCSCL1 - DIR: DDC11C1 L, H, STB-STS:
DDCSDA2 - DIR: DDC11C2 L, H, STB-STS:
DDCSCL2 - DIR: DDC11C2 L, H, STB-STS:
DDCSDA3 - DIR: DDC11C3 L, H, STB-STS:
DDCSCL3 - DIR: DDC11C3 L, H, STB-STS:
EDID-WP - DIR: 0 L, PROTECT H, Write STB-STS, L
SD-PWR-CTRL - DIR: 1/O L, OFF H, ON STB-STS, L
MAIN-FAN-ON - DIR: 0 L, OFF H, ON STB-STS, -
FAN-MAX - DIR: 0 PDP L, 12V H, 2.9V H, 7V / LCD L, 7V H, 9V STB-STS, L
FAN-SOS - DIR: 1 L, NORMAL H, SOS STB-STS, -
HDMI-CEC-PU-ON - DIR: 0 L, OPEN H, ON STB-STS, L
HDMI-SV-DET1 - DIR: 1 L, Unplugged H, Plugged STB-STS, -
HDMI-SV-DET2 - DIR: 1 L, Unplugged H, Plugged STB-STS, -
HDMI-SV-DET3 - DIR: 1 L, Unplugged H, Plugged STB-STS, -
HDMI-SV-DET3 - DIR: 1 L, Unplugged H, Plugged STB-STS, -

<2D>

SOS

<1E>

G-MAIN3.3V-SENSE

G-MAIN9V-SENSE <2E>

G-SUB5V-SENSE

G-SUB3.3V-SENSE <3E>

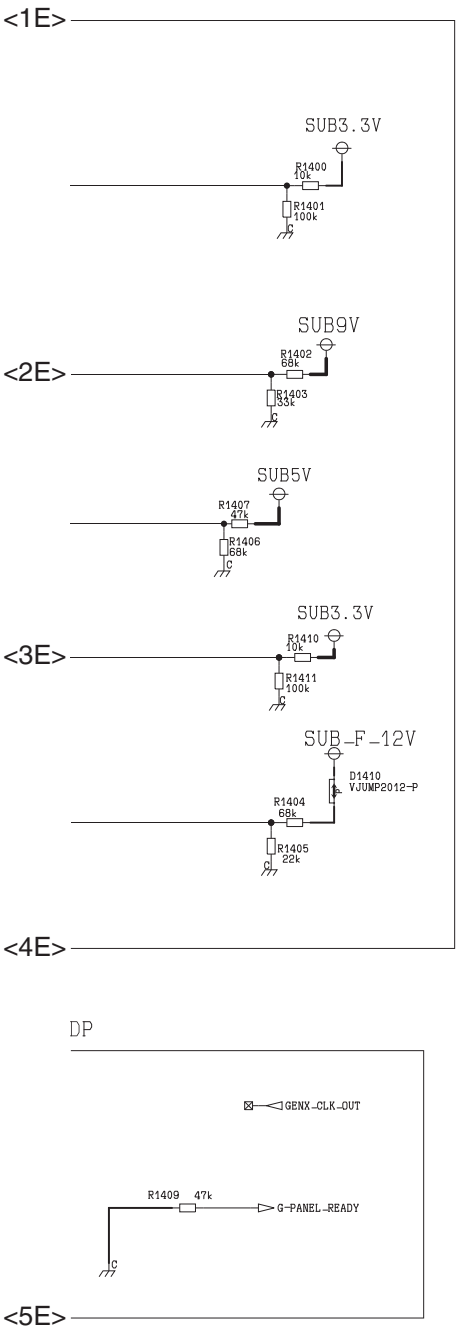
G-DTV9V-SENSE

<4E>

PDP

<5E>

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



Power off reset time polarity setting

G-TV-SUB-ON R1422 1.8k LCD-TV-SUB-ON TV-SUB-ON for LCD-MODEL

G-TV-MAIN-ON PD on Sheet SET

G-SOUND-SOS PD on Sheet ADV-A

G-PANEL-ALARM/INVERTER-SOS PU on Sheet SET

G-PANEL-STBY-ON/PANEL-VCC-ON PD on Sheet SET

G-ECO-ON/INVERTER-ON PD on Sheet SET

G-GRAB-MODULE-IIC/PMW-POW-ON PD on Sheet LVDS

G-BACK-VOUTENB NON USE

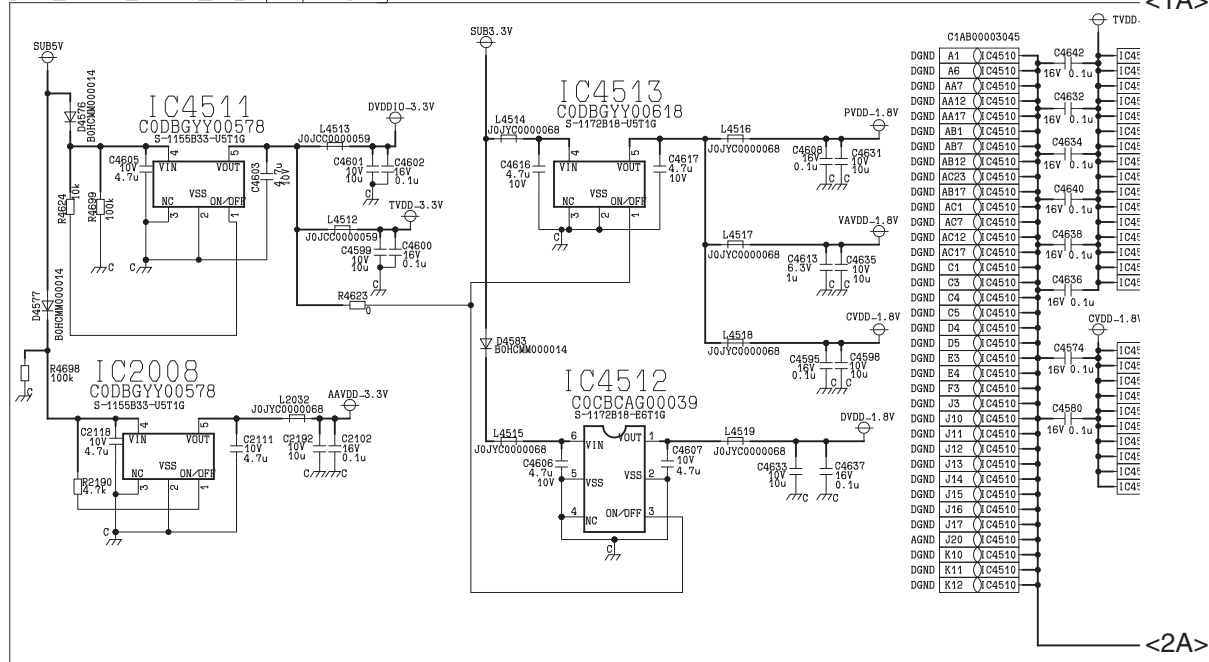
G-HQ-XRST NON USE

G-MID-VOUTENB NON USE

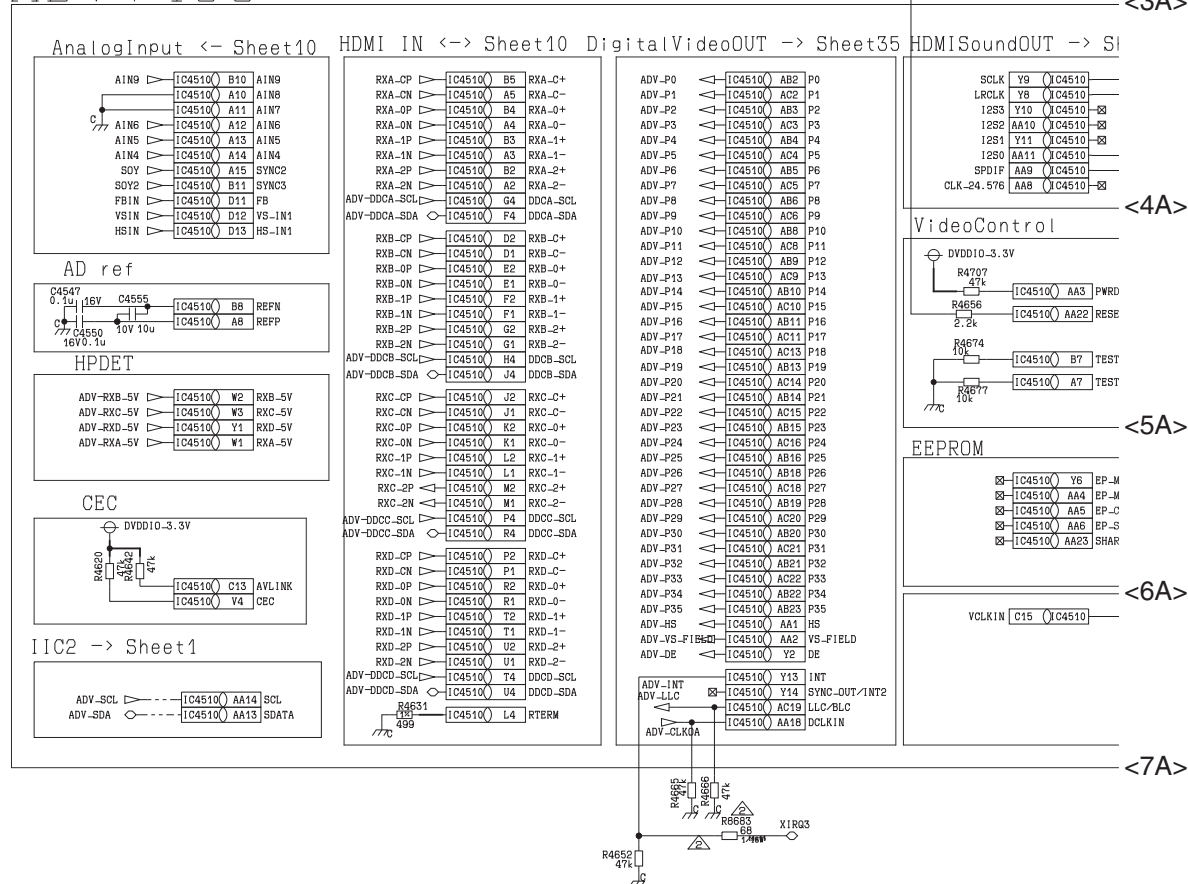
G-SOURCE-XRST/PANEL-TEST-ON PD on Sheet LVDS

G-DTV-VOUTENB PD on Sheet Peaks-DEST

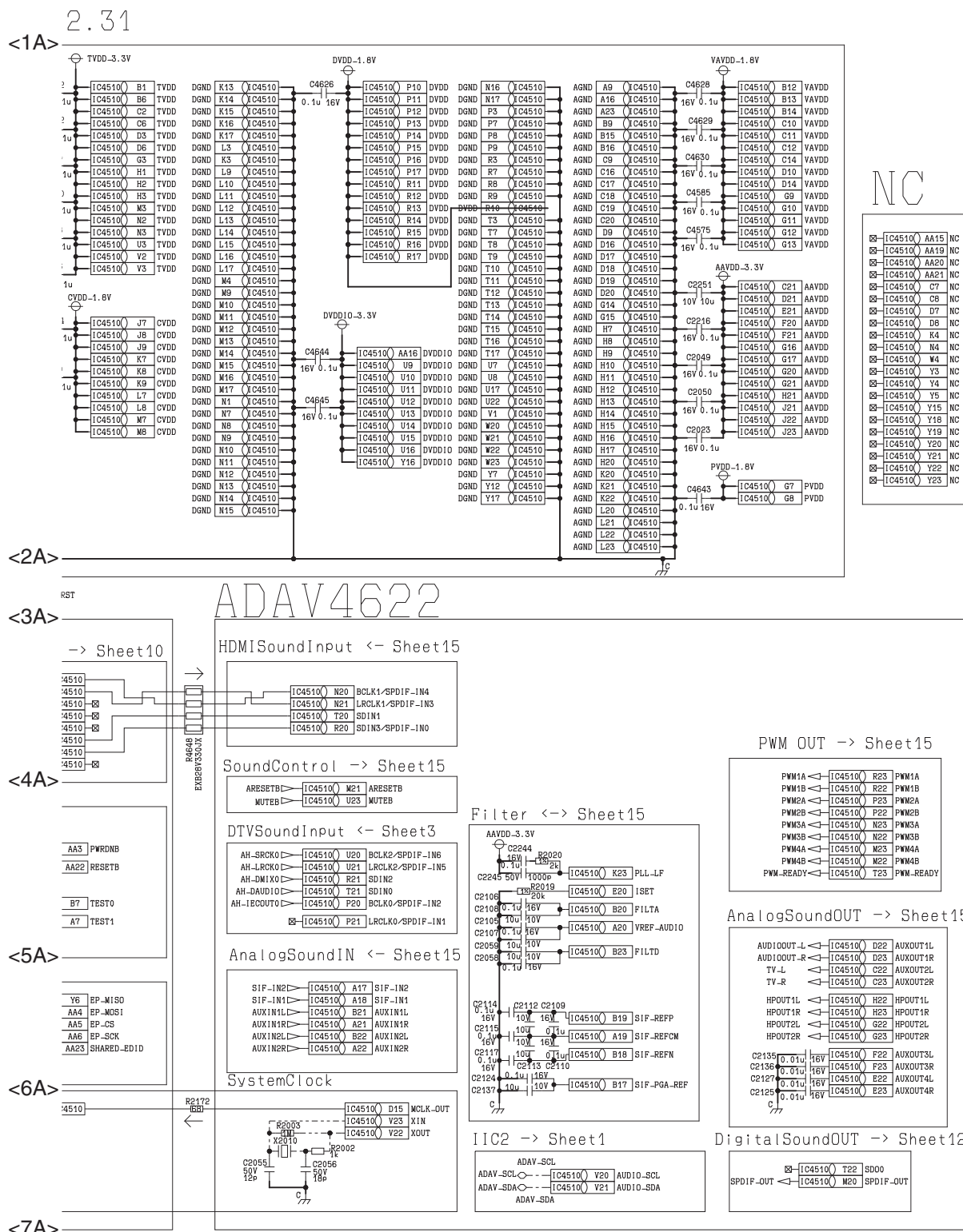
Until : 2009.12.31



ADV7496

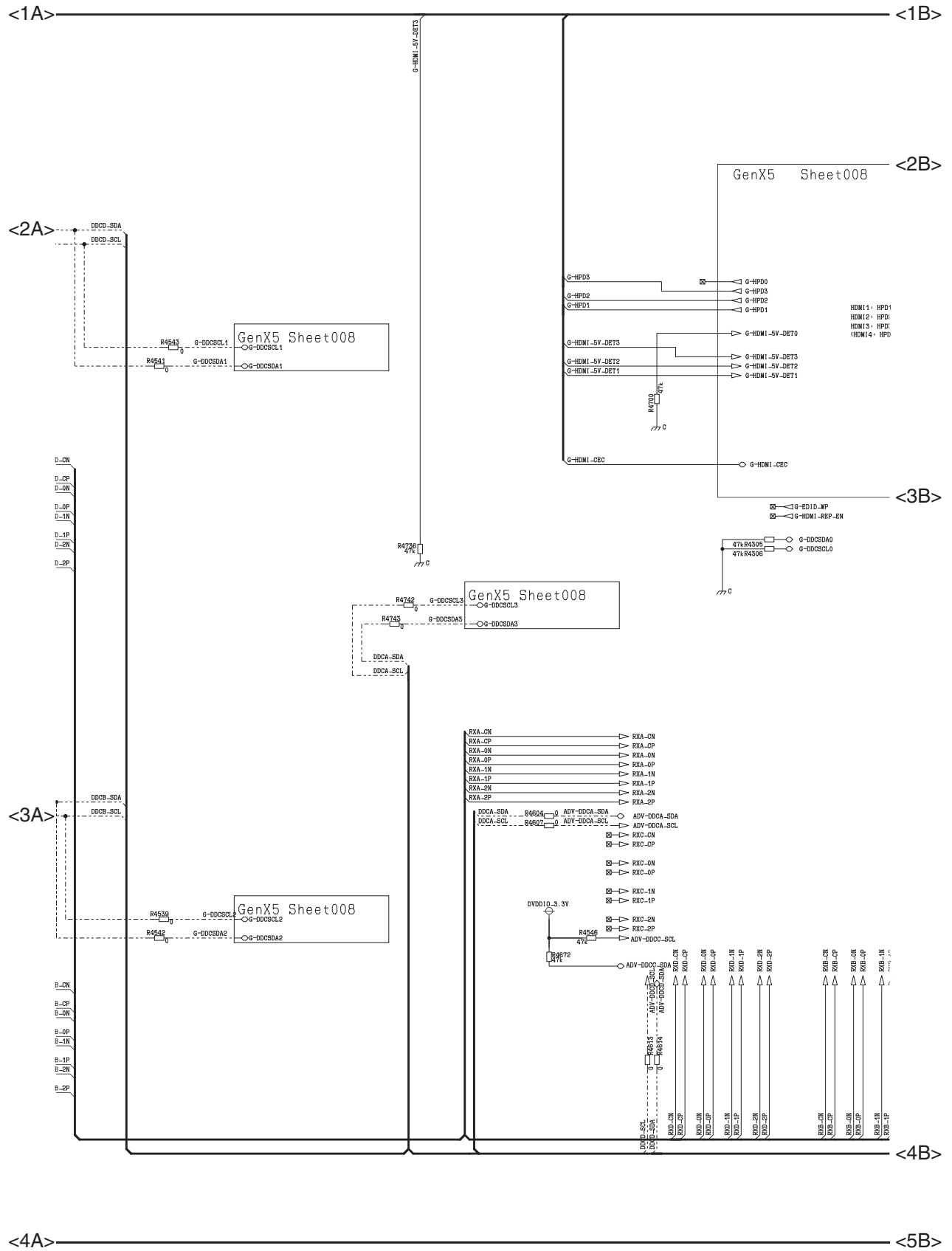


11.2.18. A Board - Sheet : 004 (2 / 2)

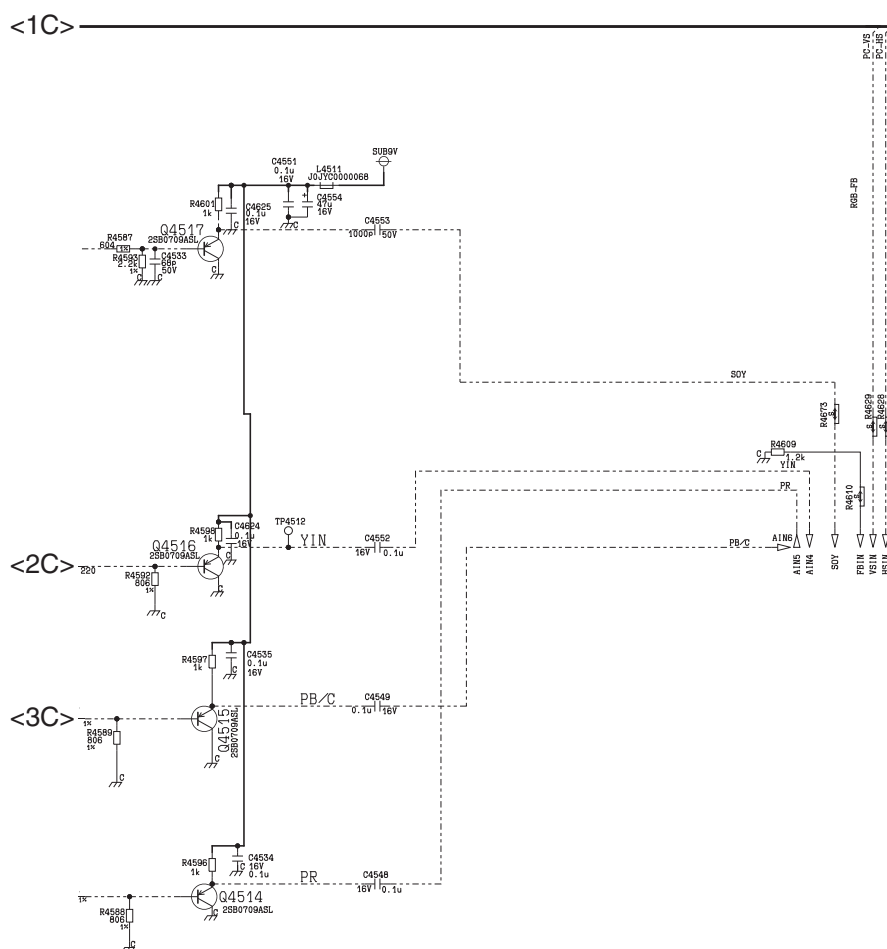




11.2.20. A Board - Sheet : 005 (2 / 5)



11.2.22. A Board - Sheet : 005 (4 / 5)



From ADV747*

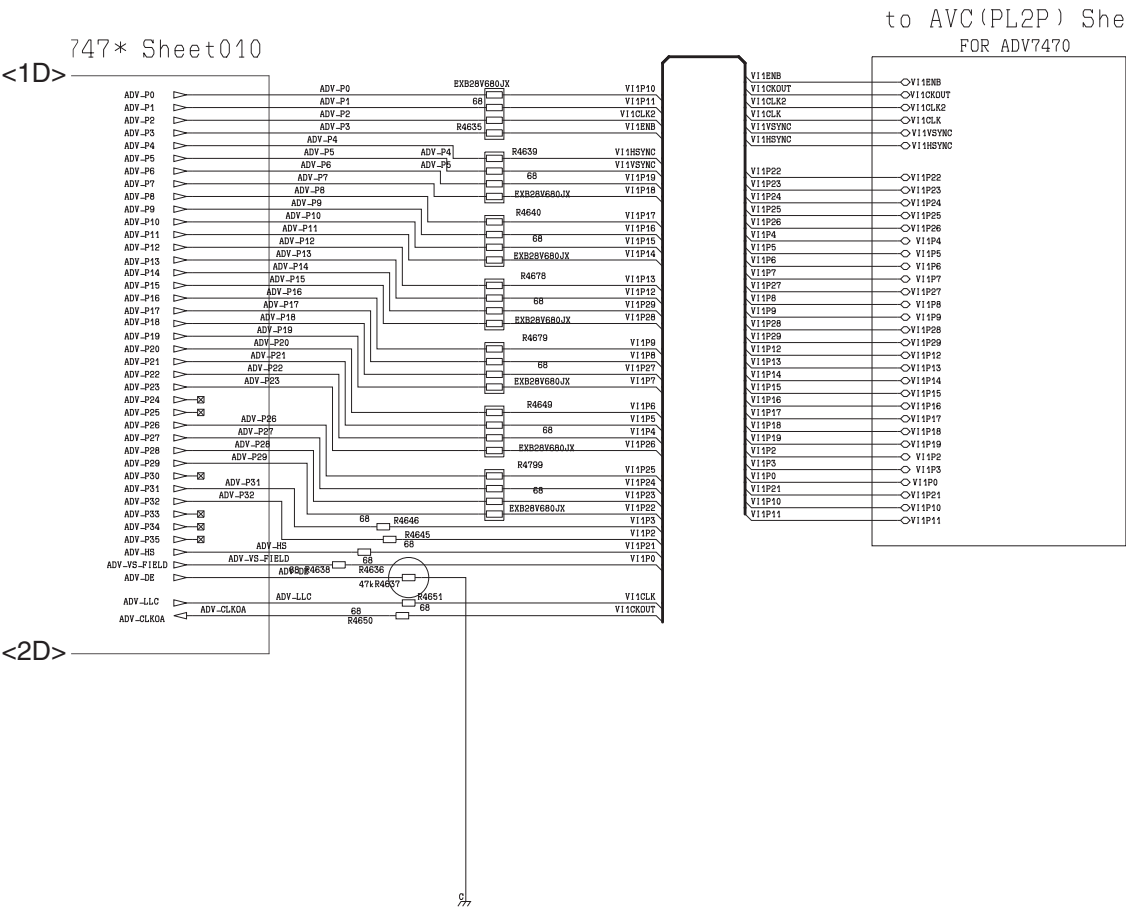
— <1D>

ADV-

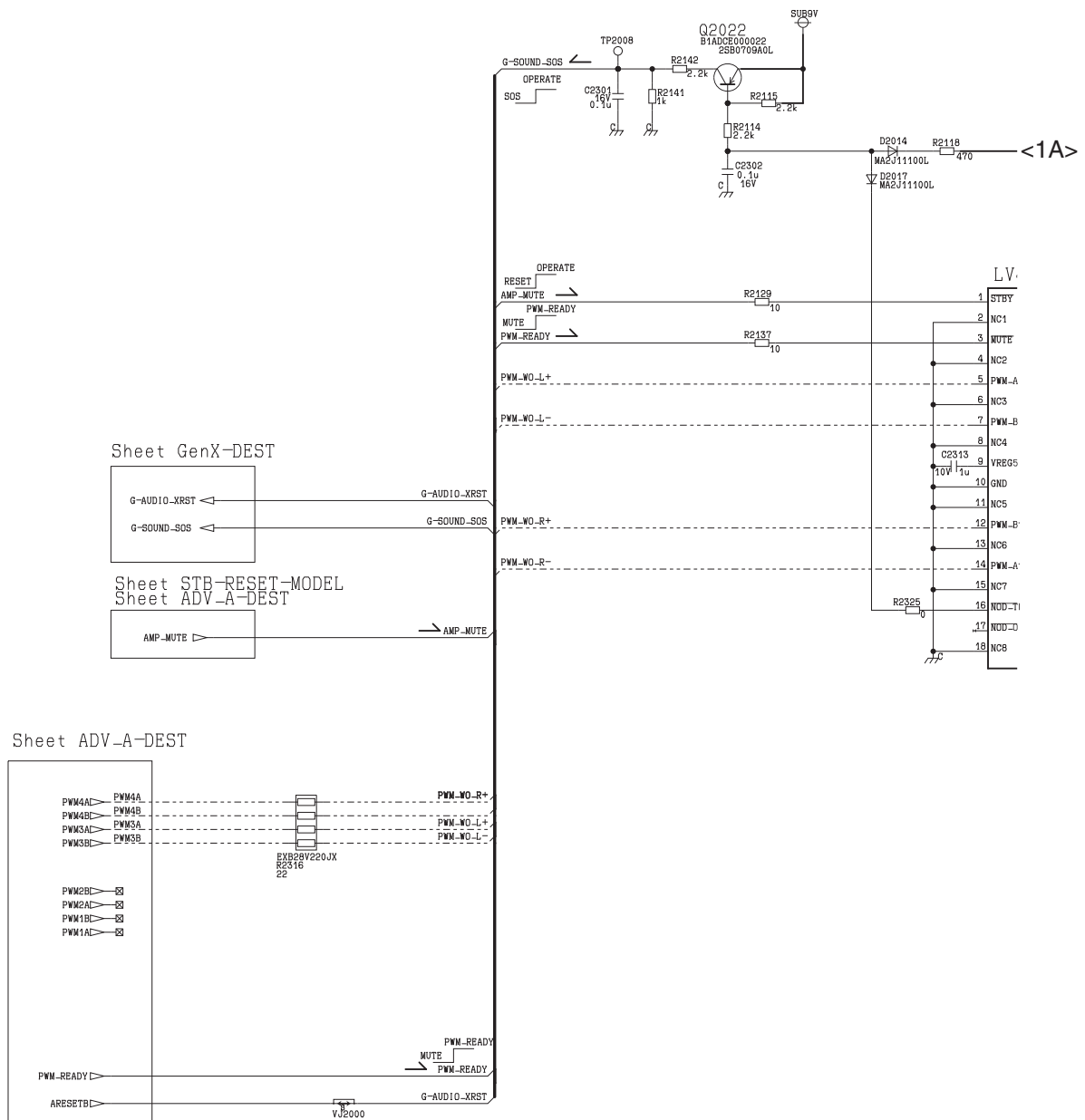
A

— <2D>

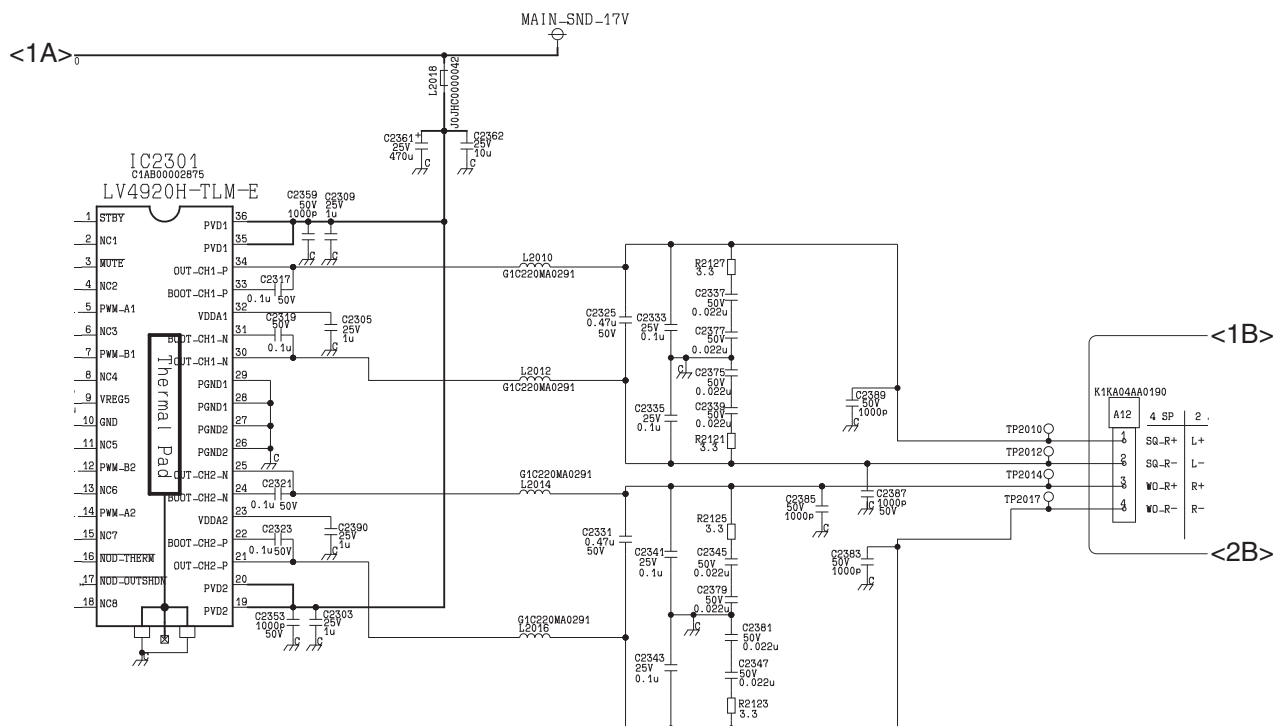
11.2.23. A Board - Sheet : 005 (5 / 5)



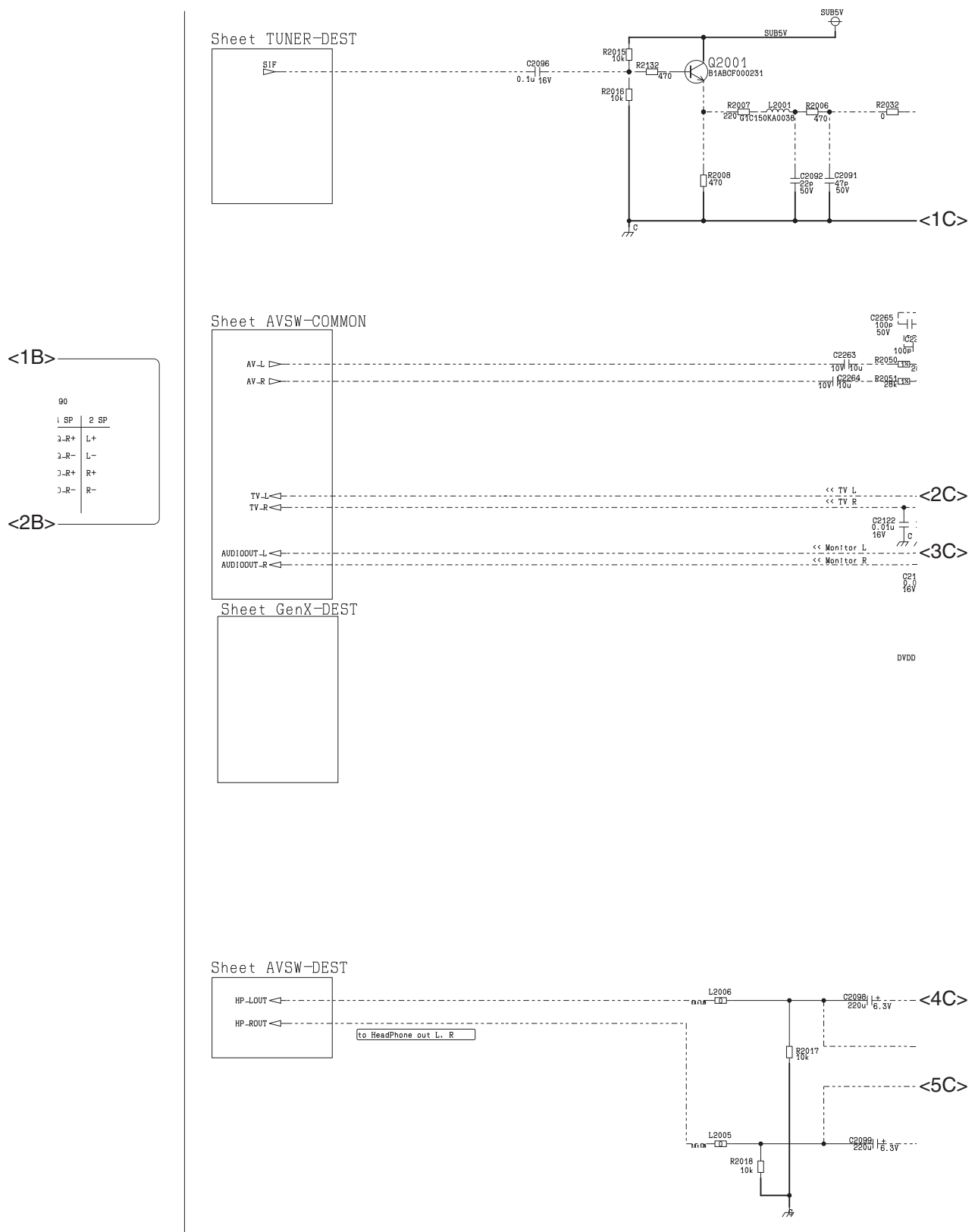
11.2.24. A Board - Sheet : 006 (1 / 4)



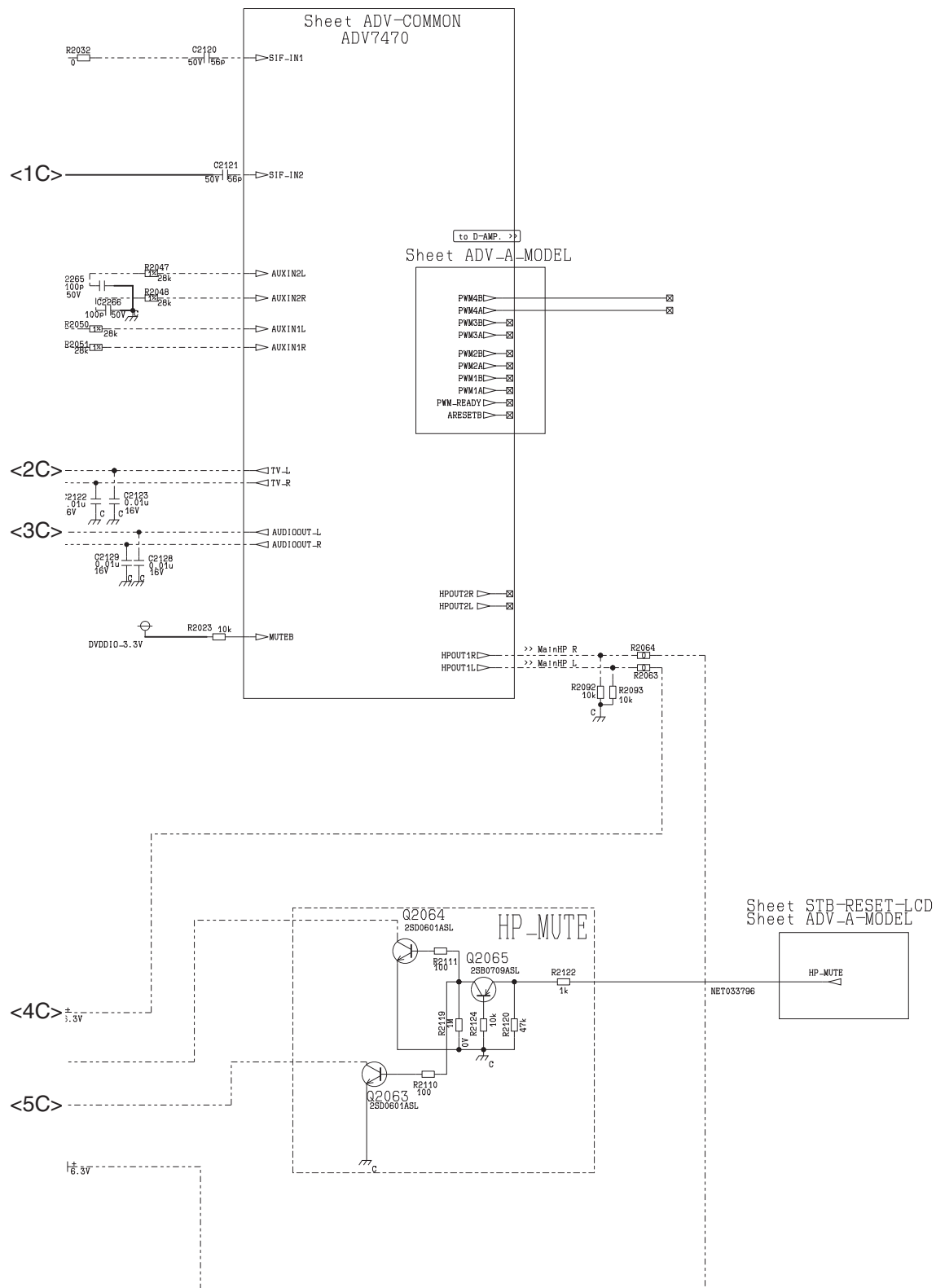
11.2.25. A Board - Sheet : 006 (2 / 4)



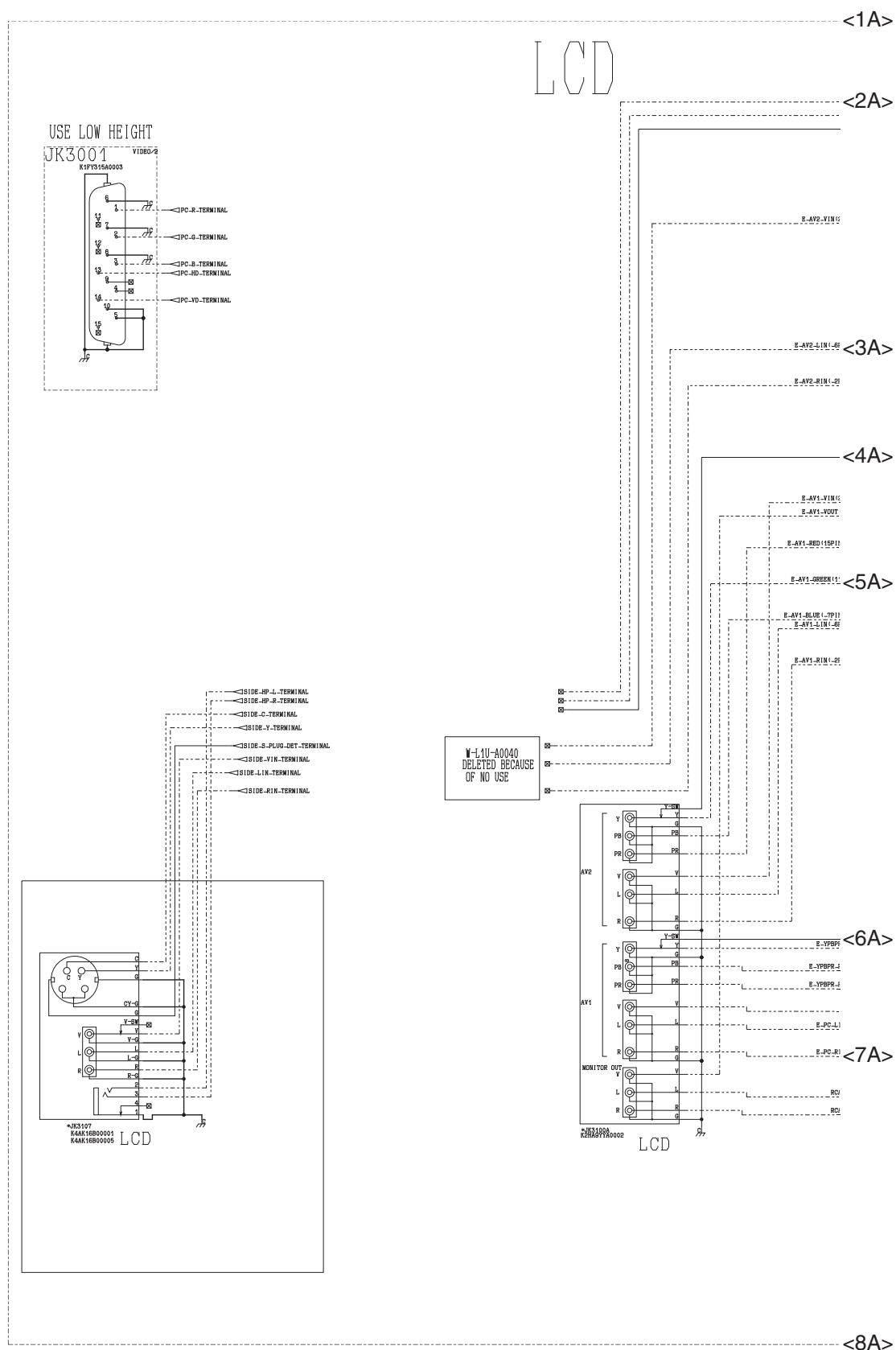
11.2.26. A Board - Sheet : 006 (3 / 4)



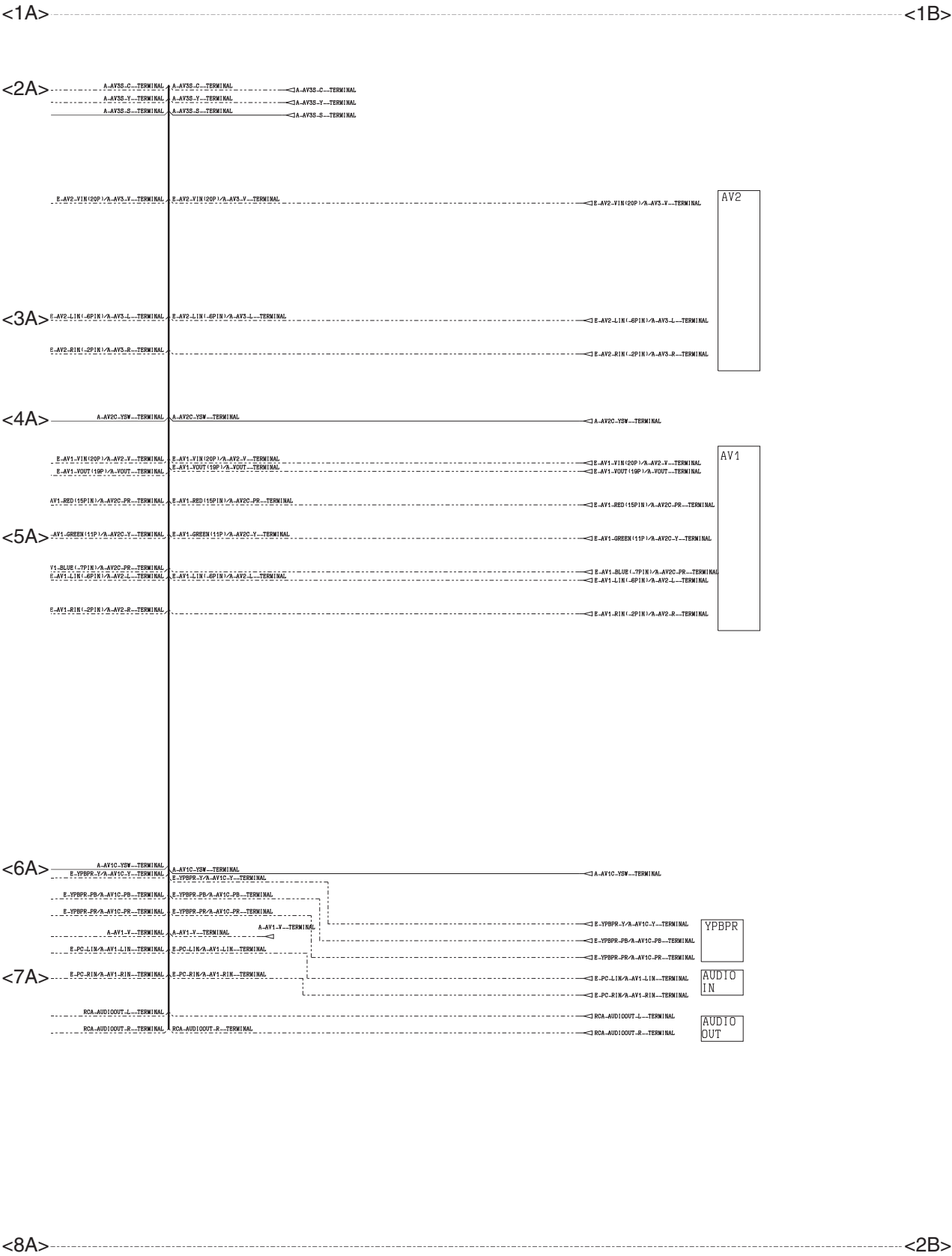
11.2.27. A Board - Sheet : 006 (4 / 4)



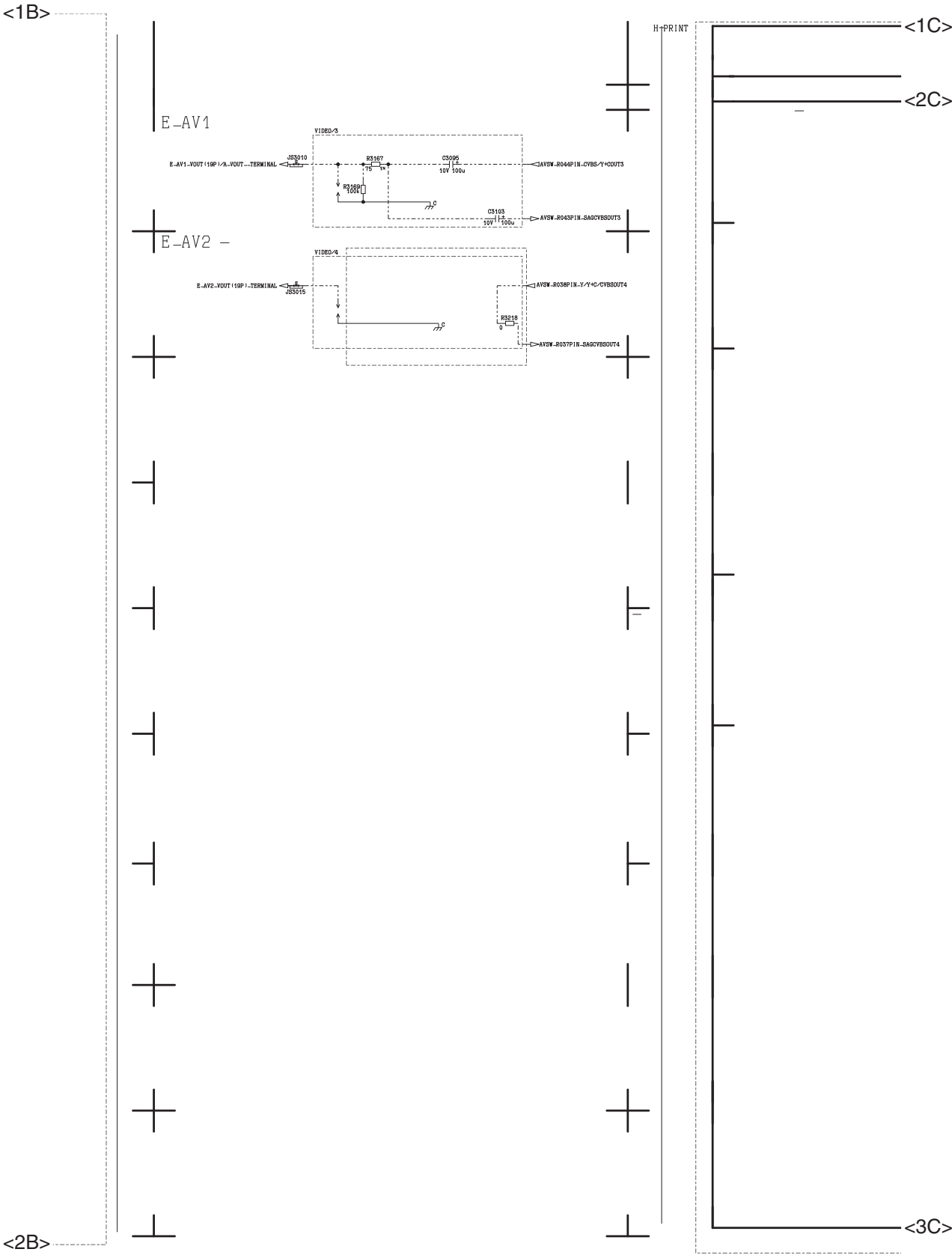
11.2.28. A Board - Sheet : 007 (1 / 9)



11.2.29. A Board - Sheet : 007 (2 / 9)



11.2.30. A Board - Sheet : 007 (3 / 9)

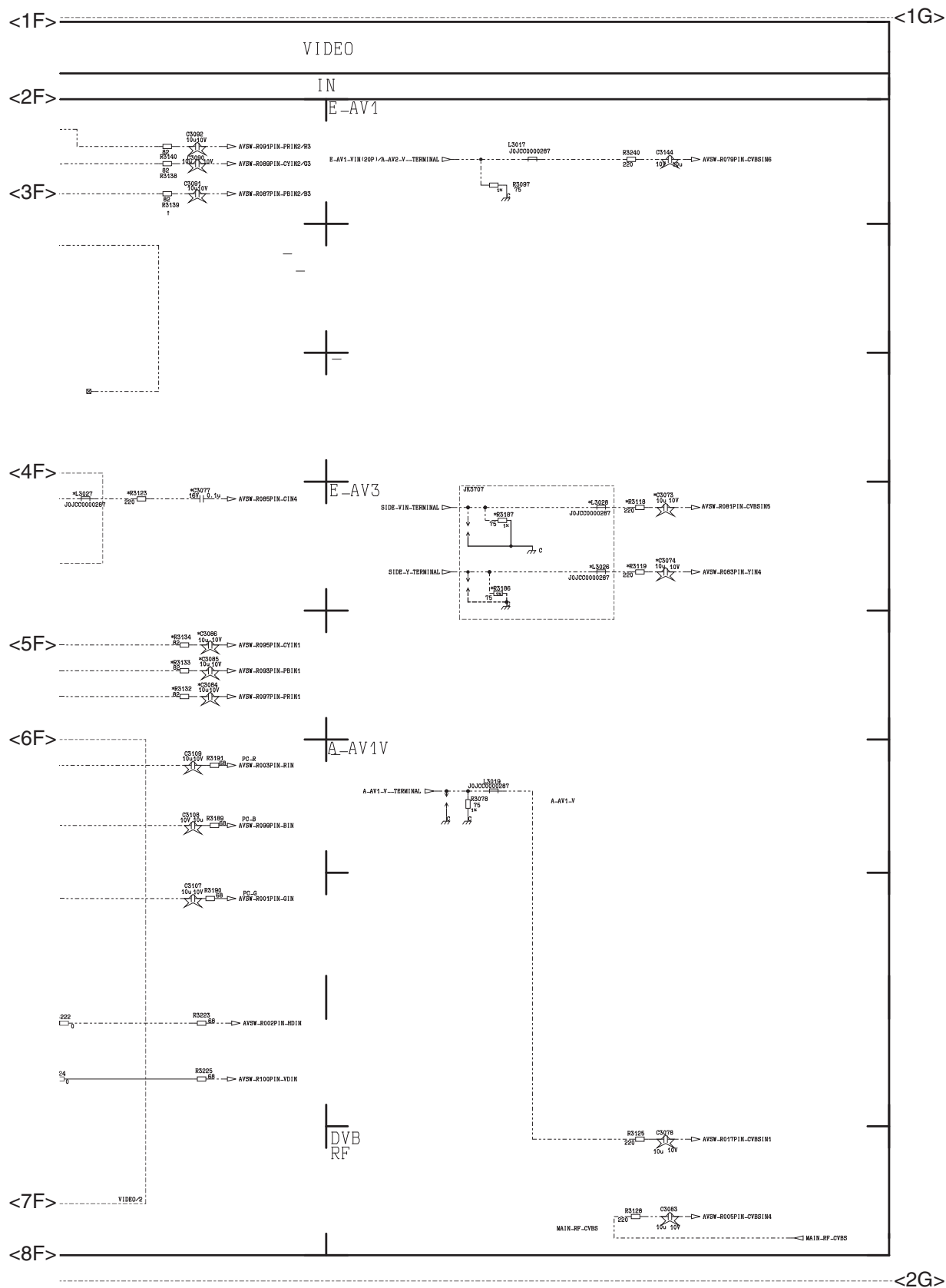






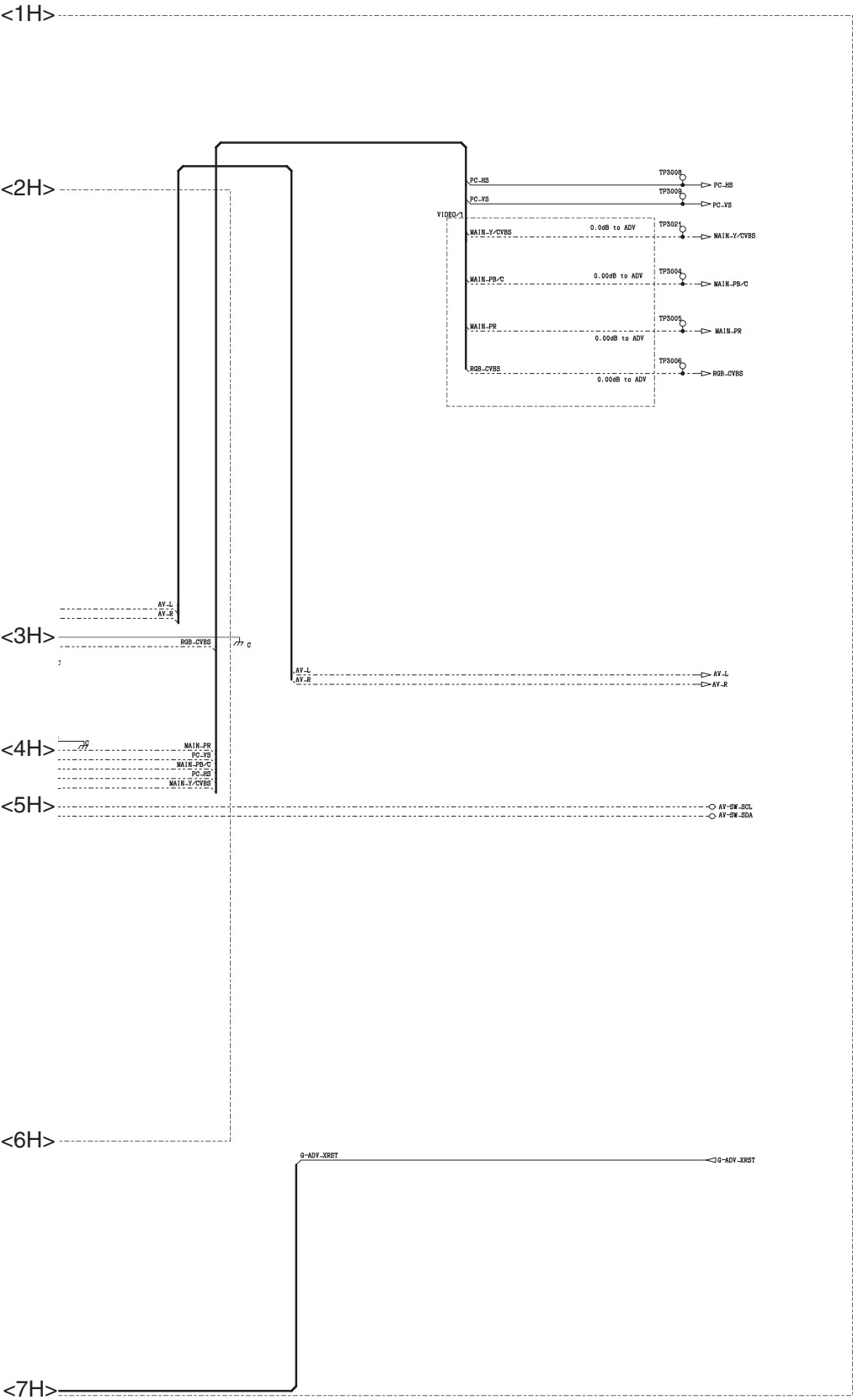


11.2.34. A Board - Sheet : 007 (7 / 9)

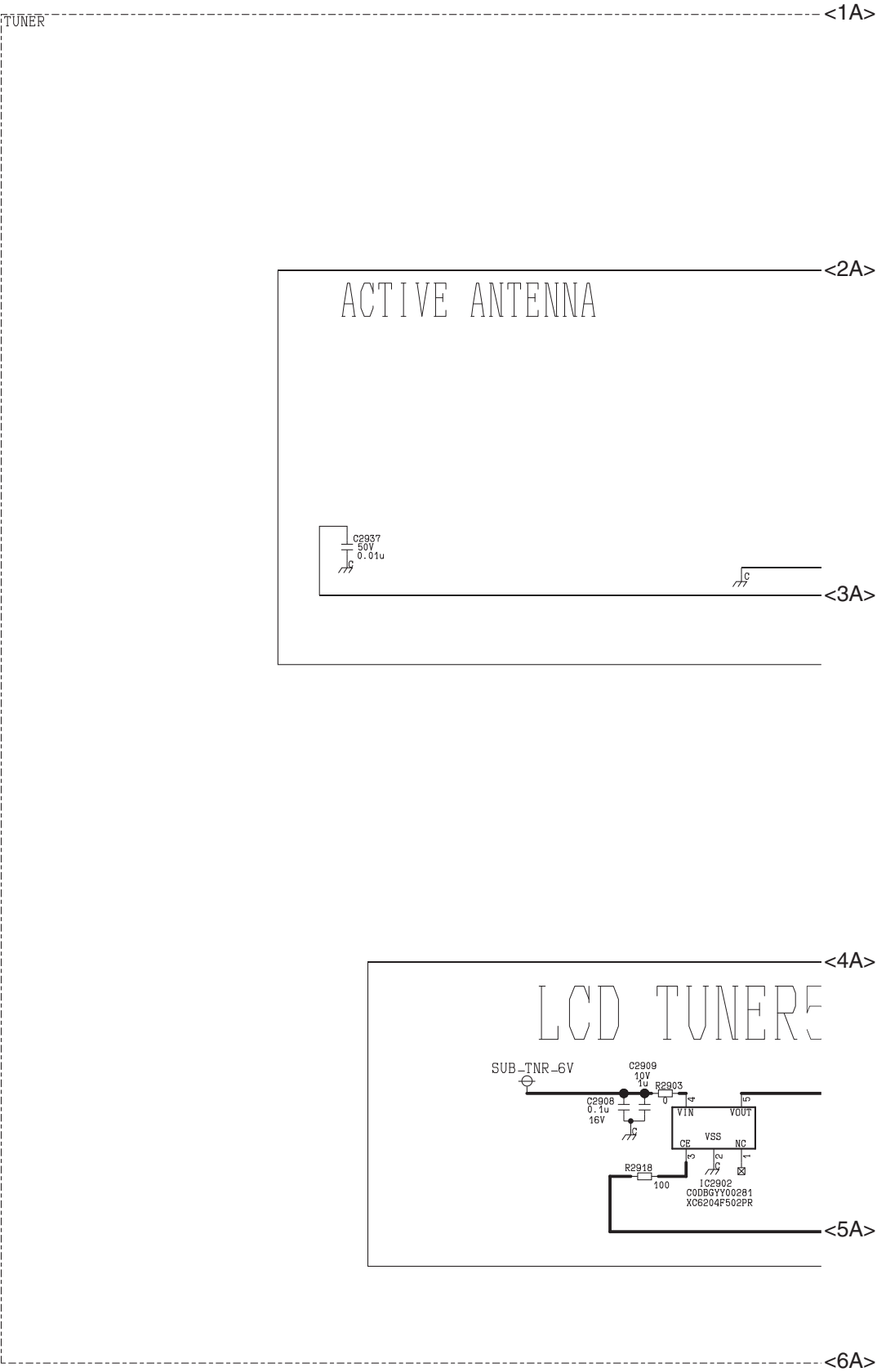




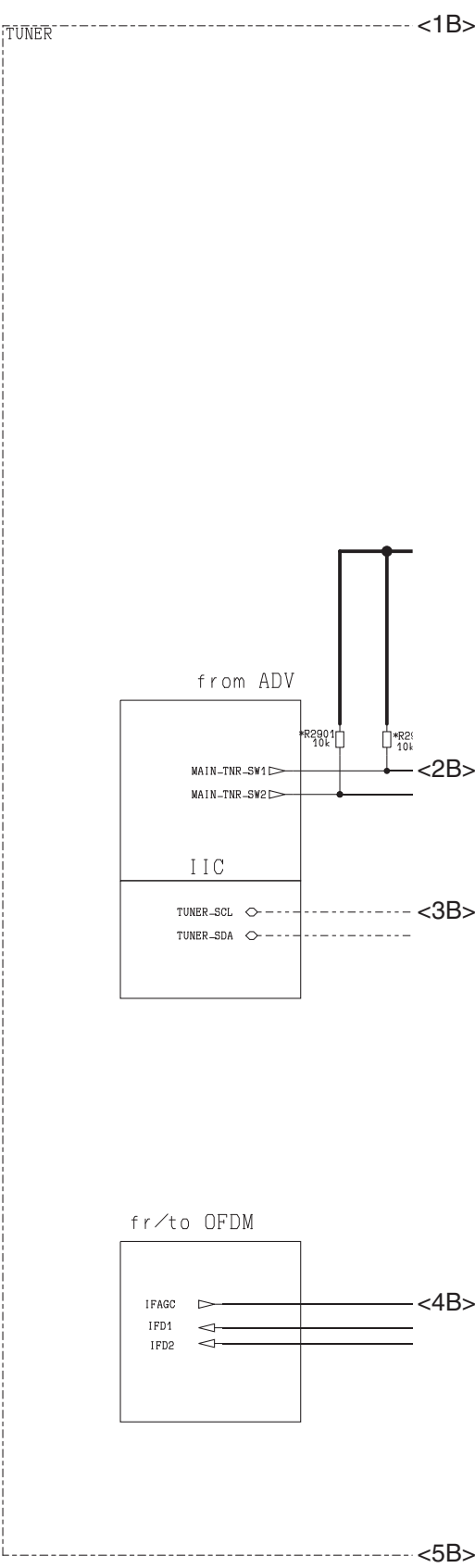
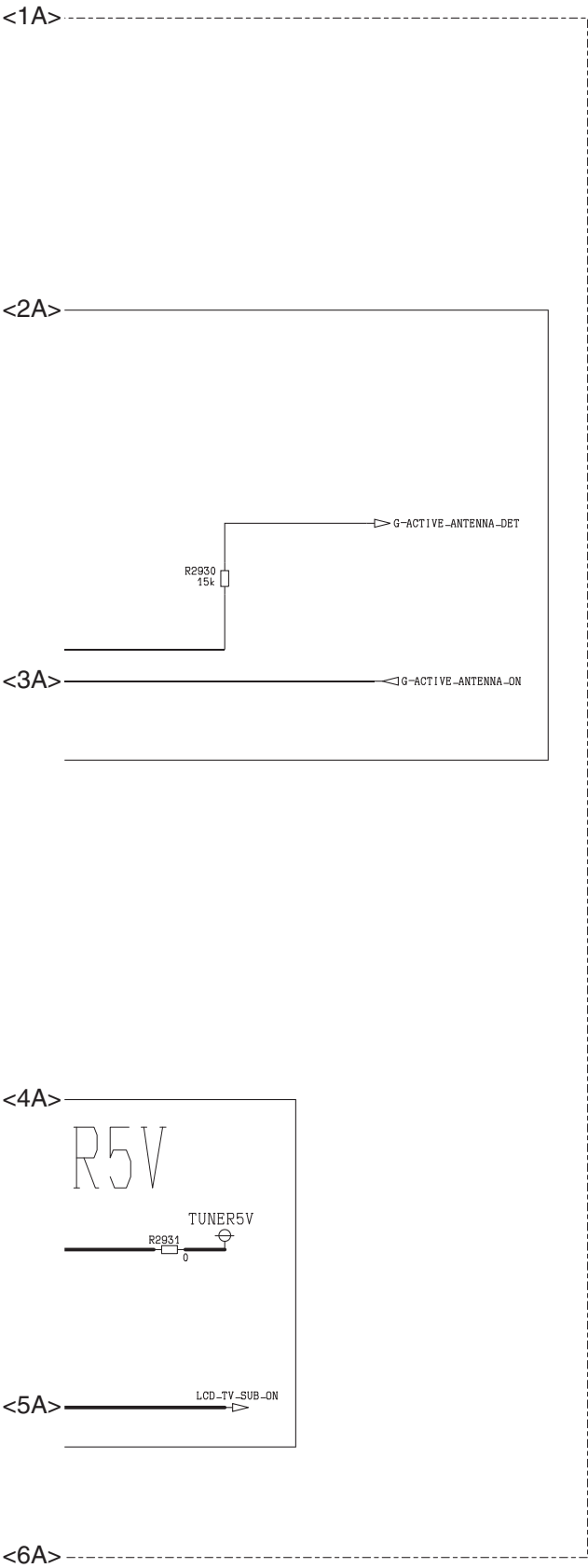
11.2.36. A Board - Sheet : 007 (9 / 9)



11.2.37. A Board - Sheet : 008 (1 / 4)

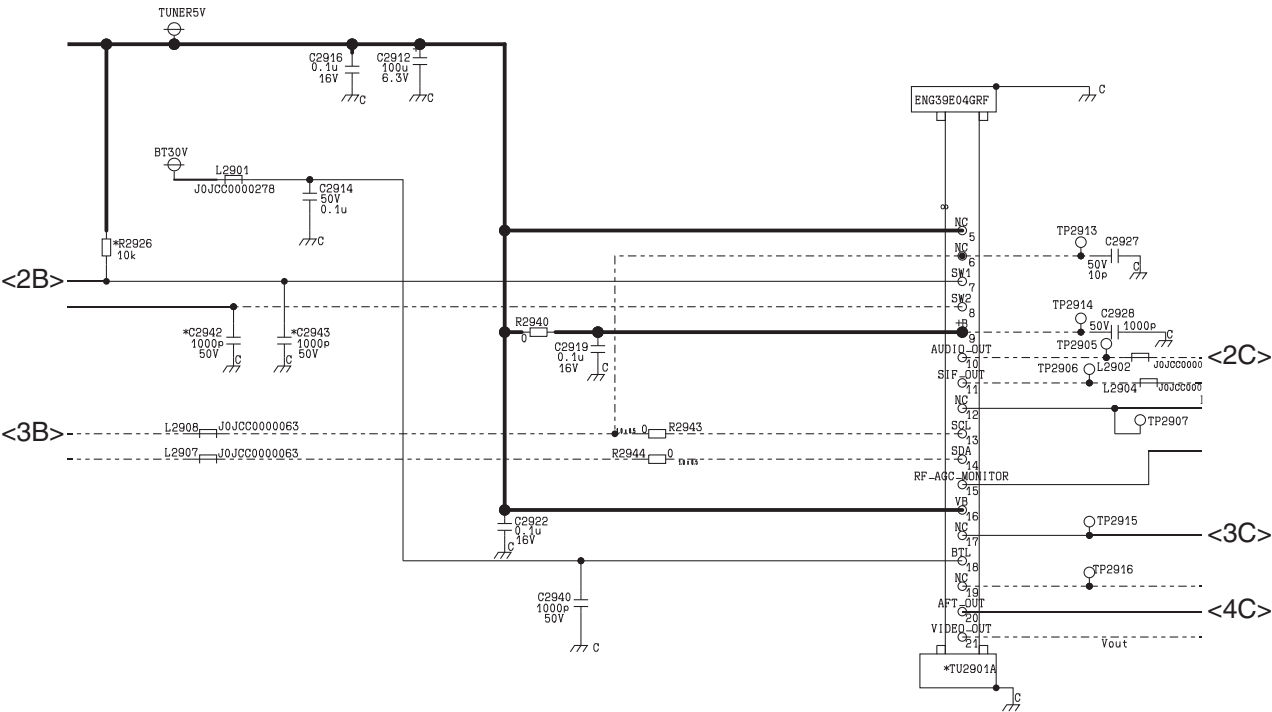


11.2.38. A Board - Sheet : 008 (2 / 4)



11.2.39. A Board - Sheet : 008 (3 / 4)

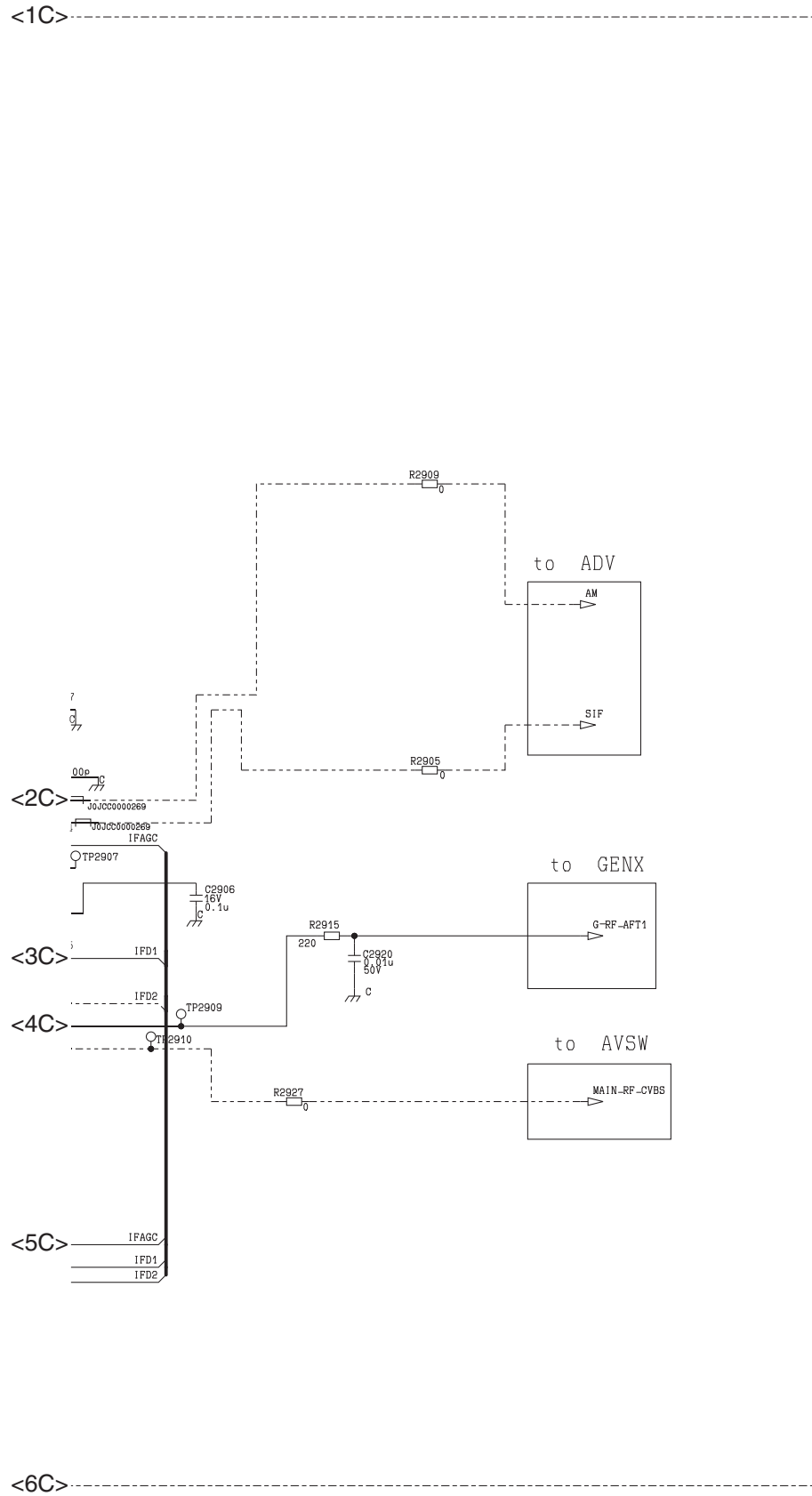
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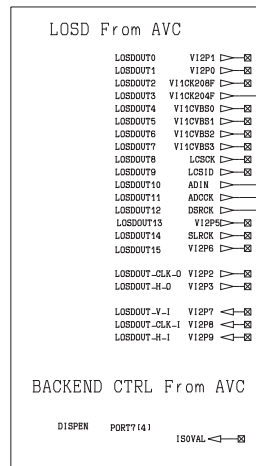
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<5B>-----<6C>

11.2.40. A Board - Sheet : 008 (4 / 4)



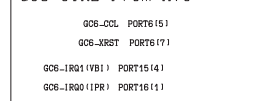
TO Sheet Peaks—COMMON



BACKEND CTRL From GenX



GC6 CTRL From AVC



(IRQ VBI)
(IRQ IPR)

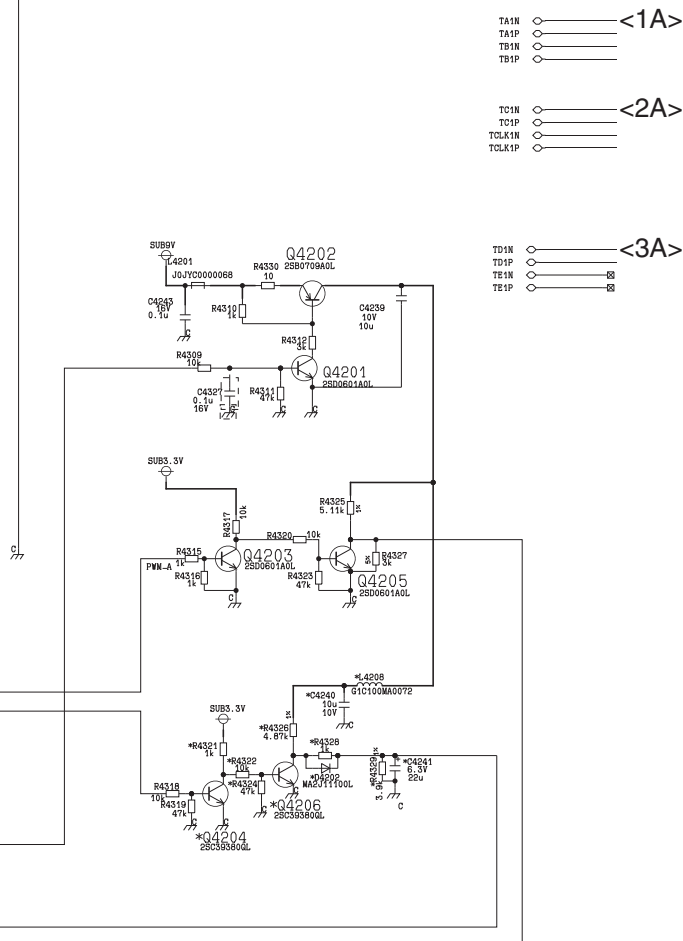
PWM CONTROL

PWM1 CH1PSYNC

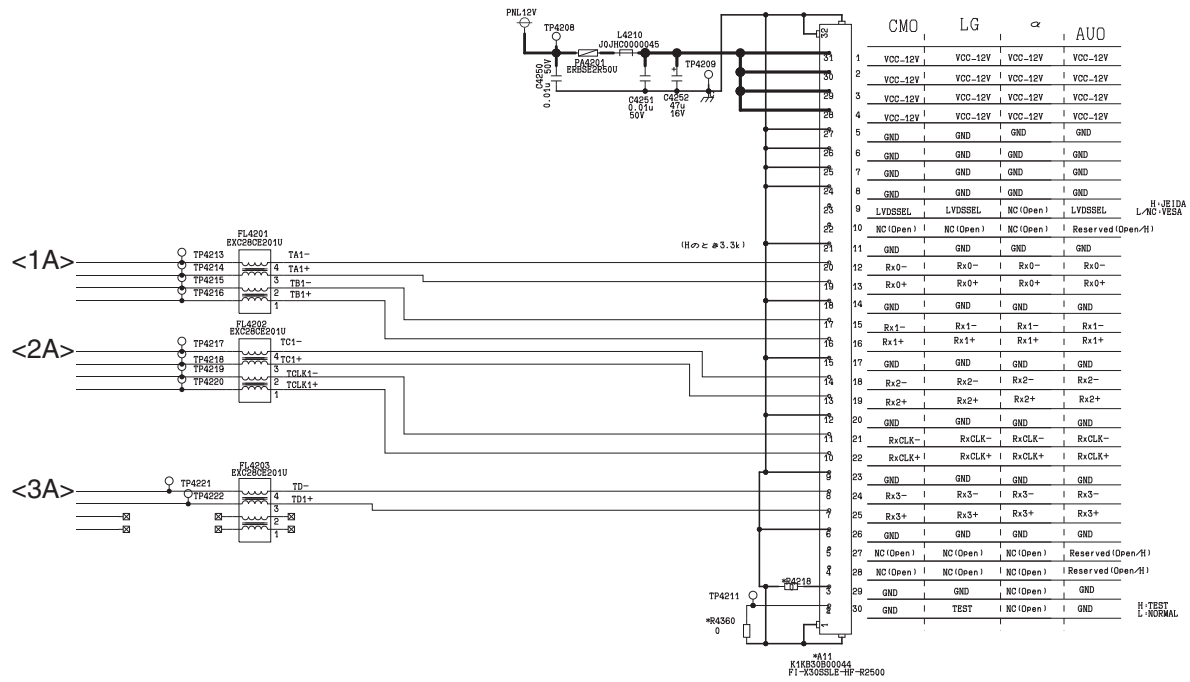
PWM2 CH1CLK

G-GRAB_MODULE_LIC/PWM-PWM-ON

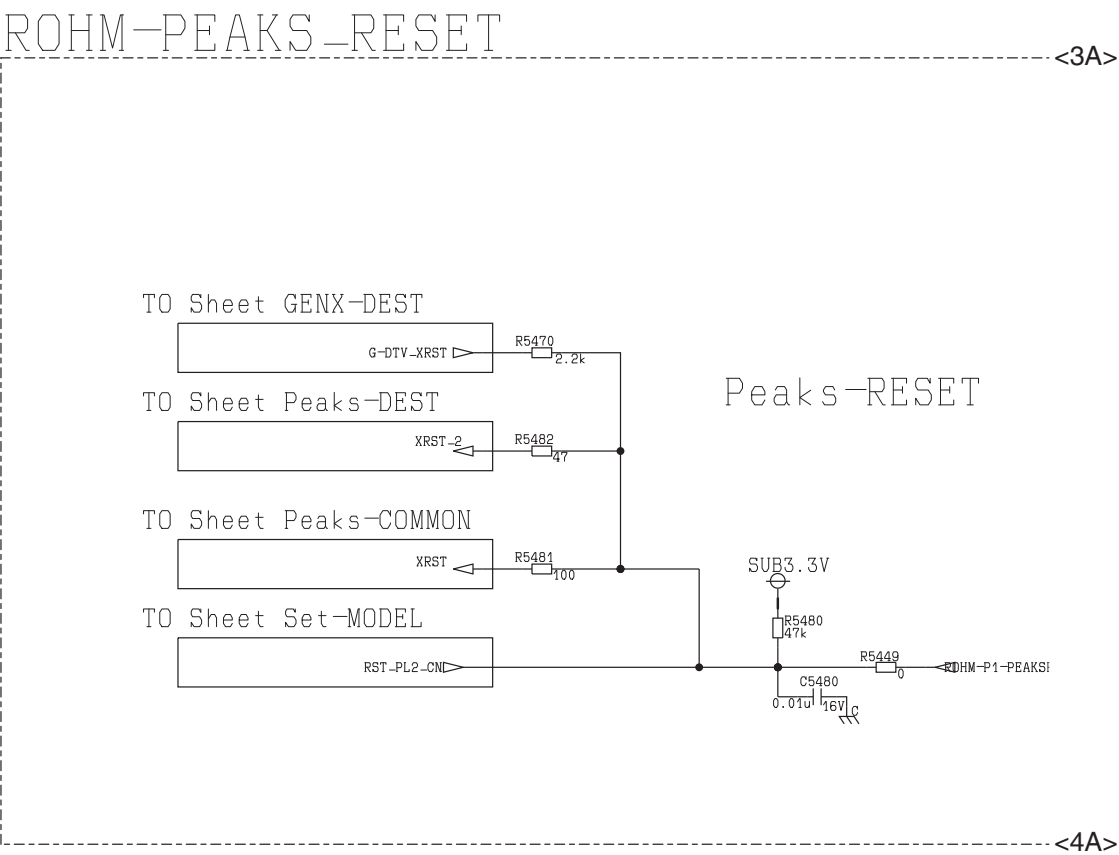
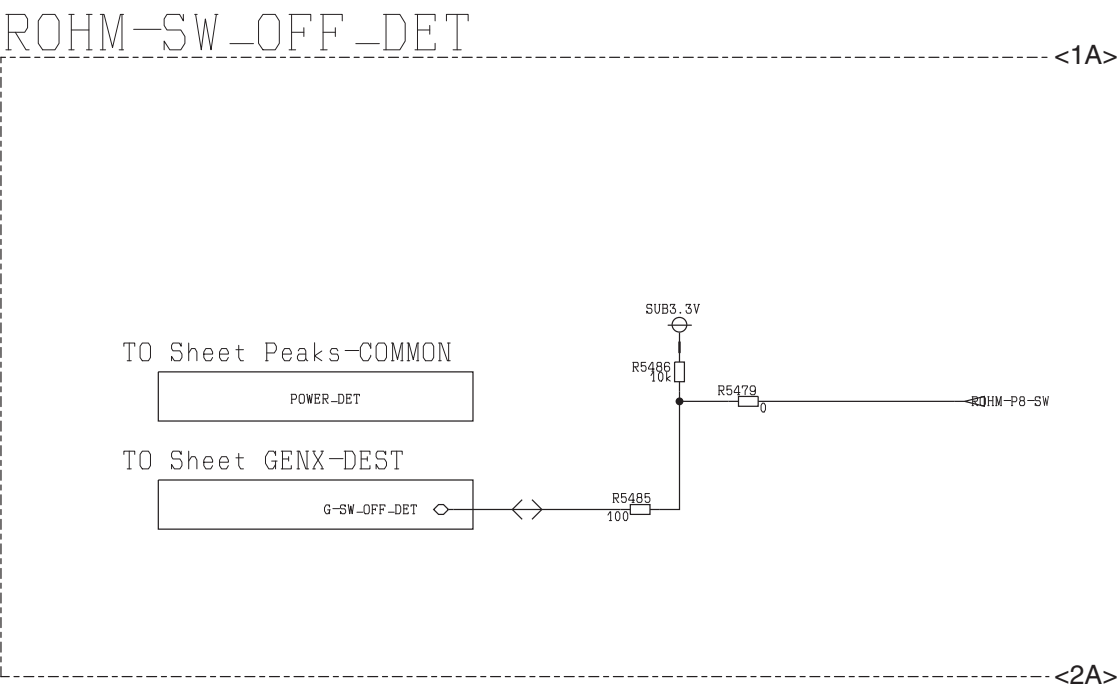
INV-ADIM



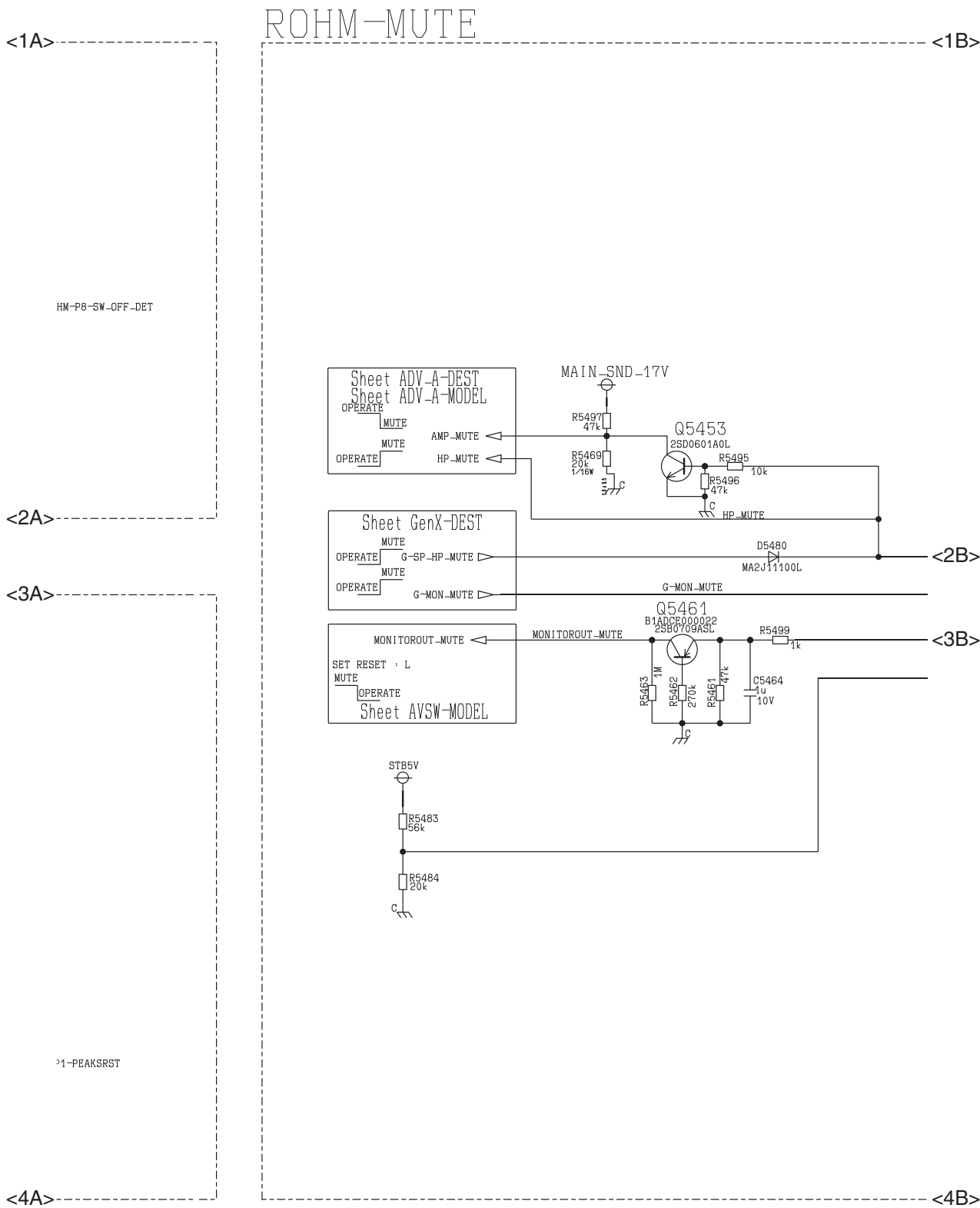
11.2.42. A Board - Sheet : 009 (2 / 2)



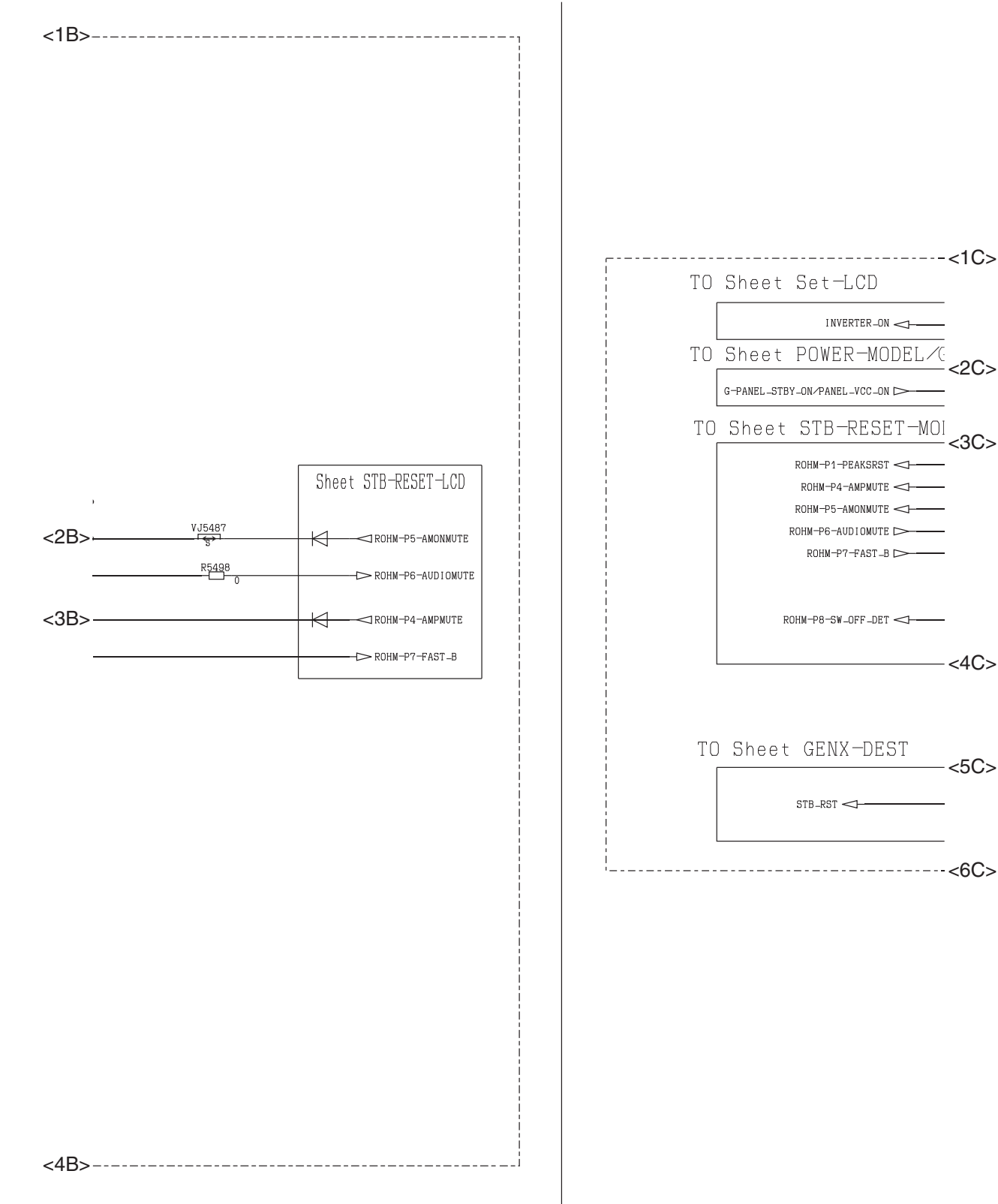
11.2.43. A Board - Sheet : 010 (1 / 5)



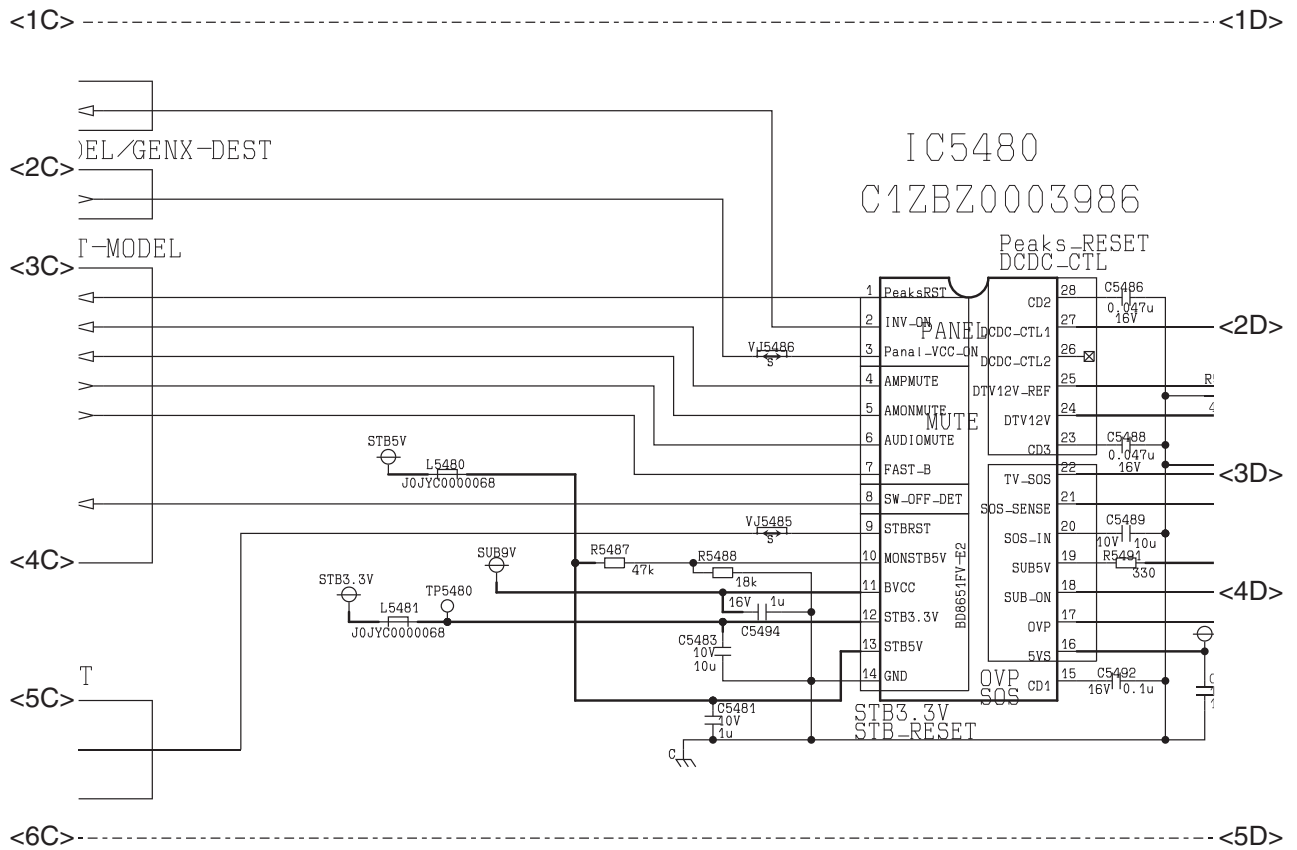
11.2.44. A Board - Sheet : 010 (2 / 5)



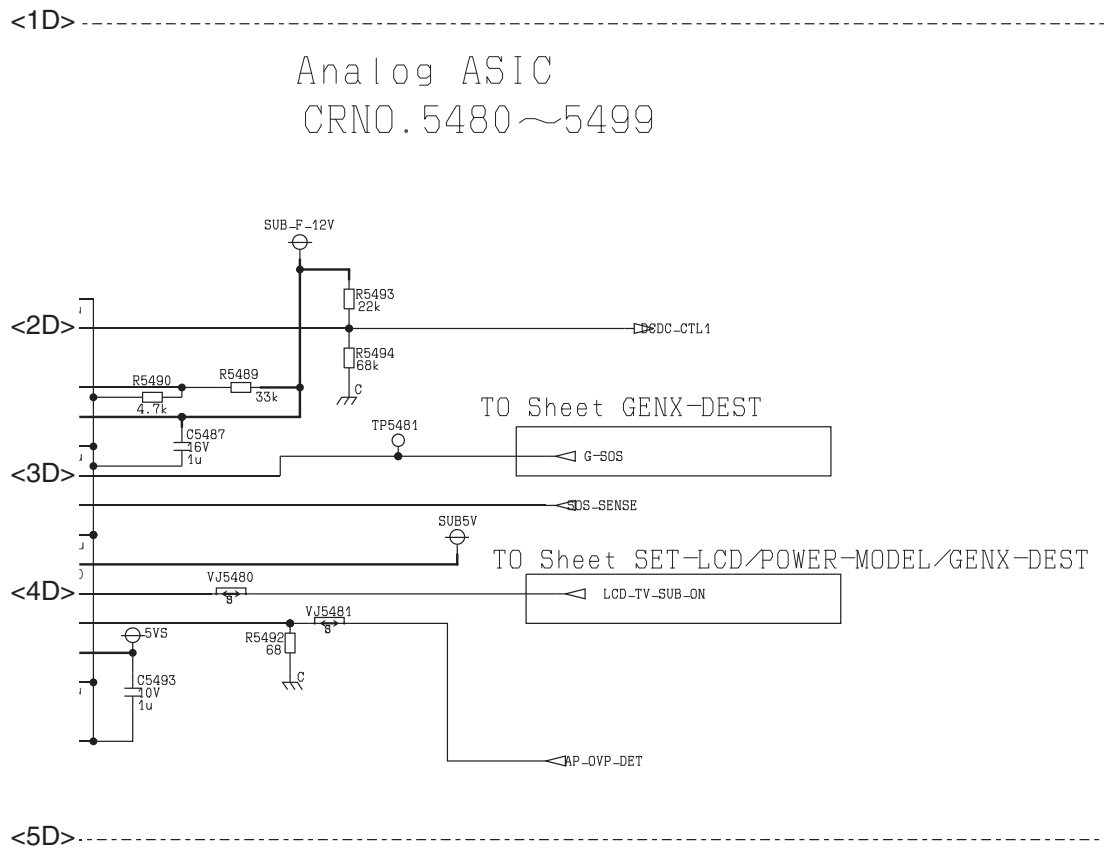
11.2.45. A Board - Sheet : 010 (3 / 5)



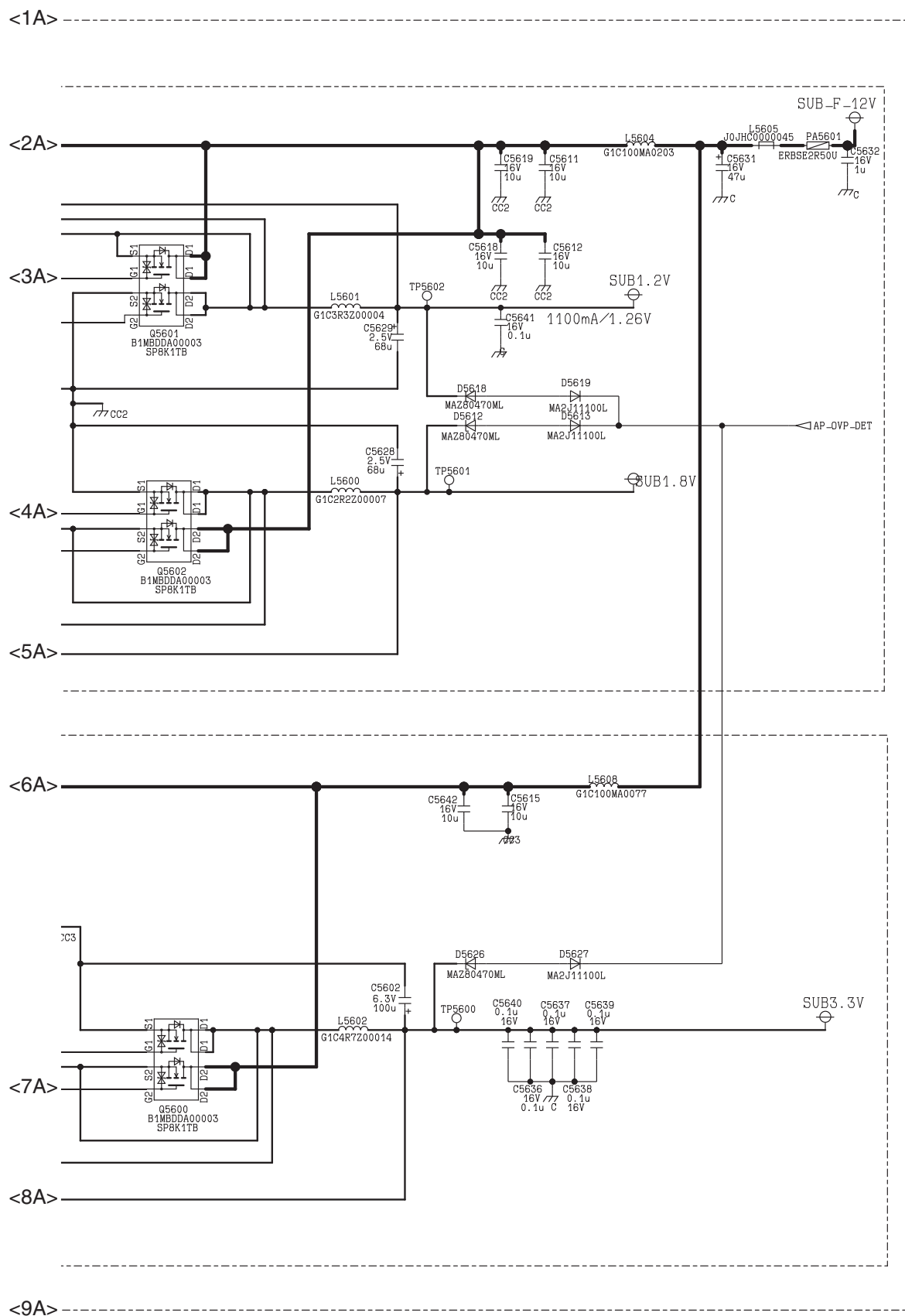
11.2.46. A Board - Sheet : 010 (4 / 5)



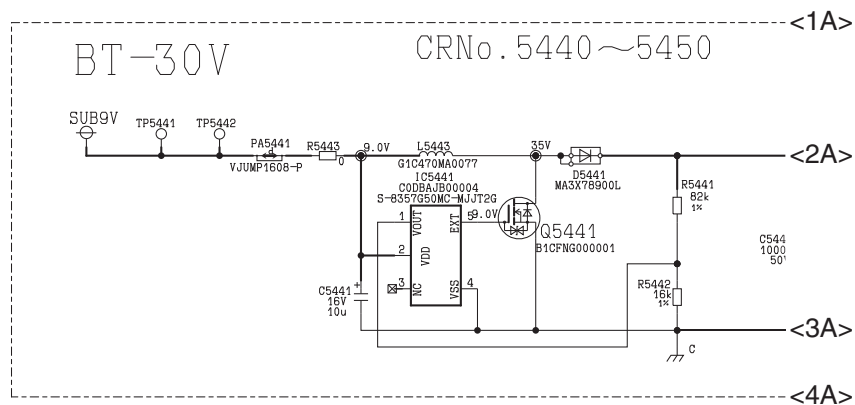
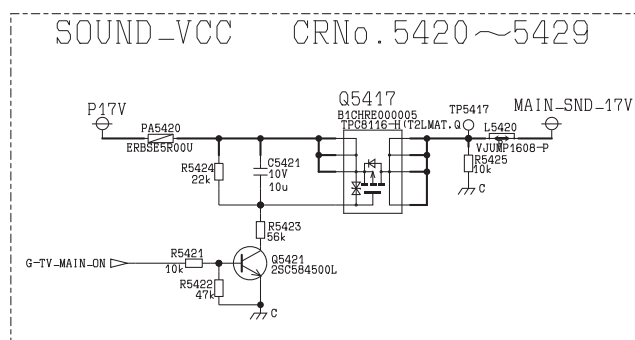
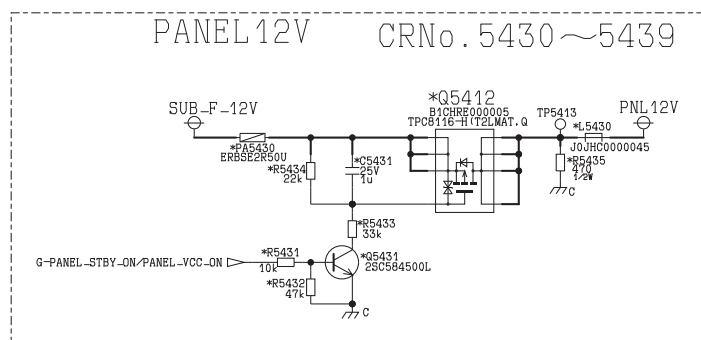
11.2.47. A Board - Sheet : 010 (5 / 5)



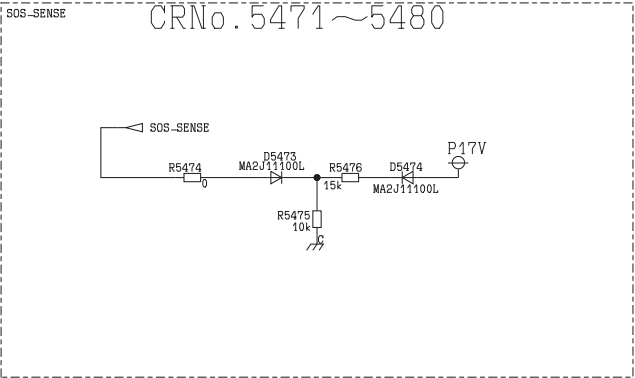
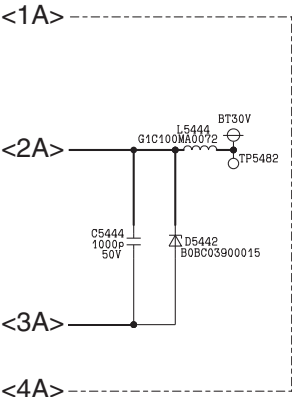
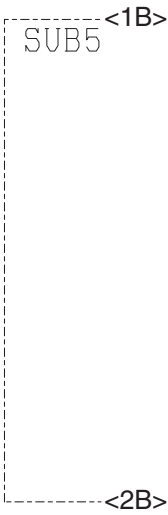
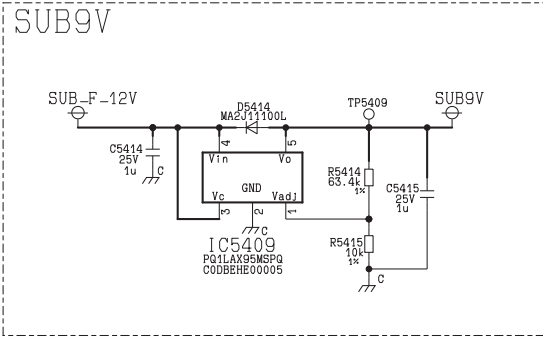
11.2.49. A Board - Sheet : 011 (2 / 2)



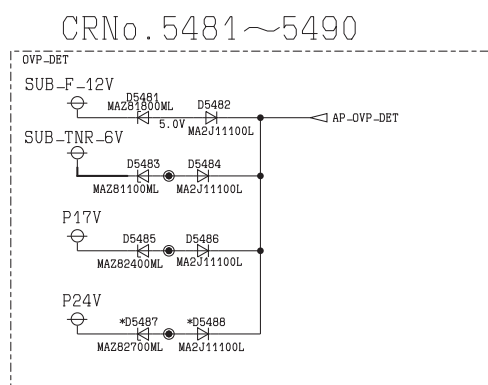
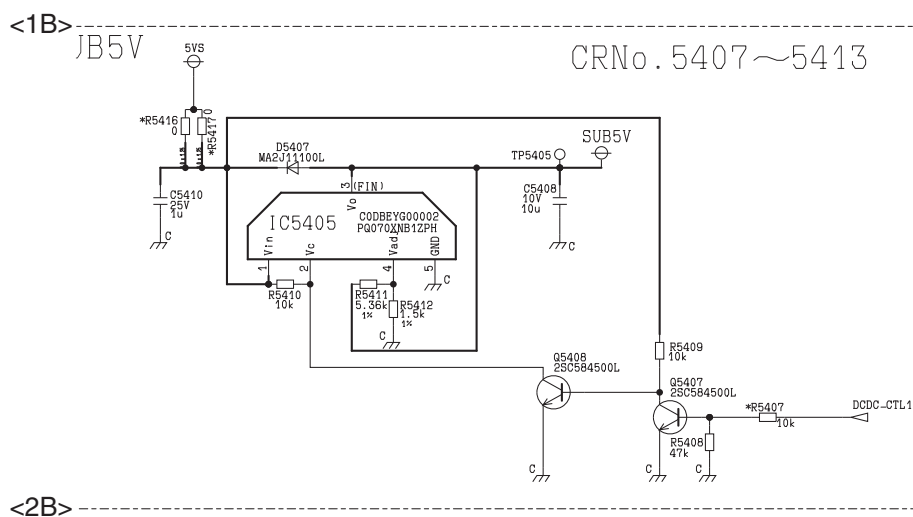
11.2.50. A Board - Sheet : 012 (1 / 3)



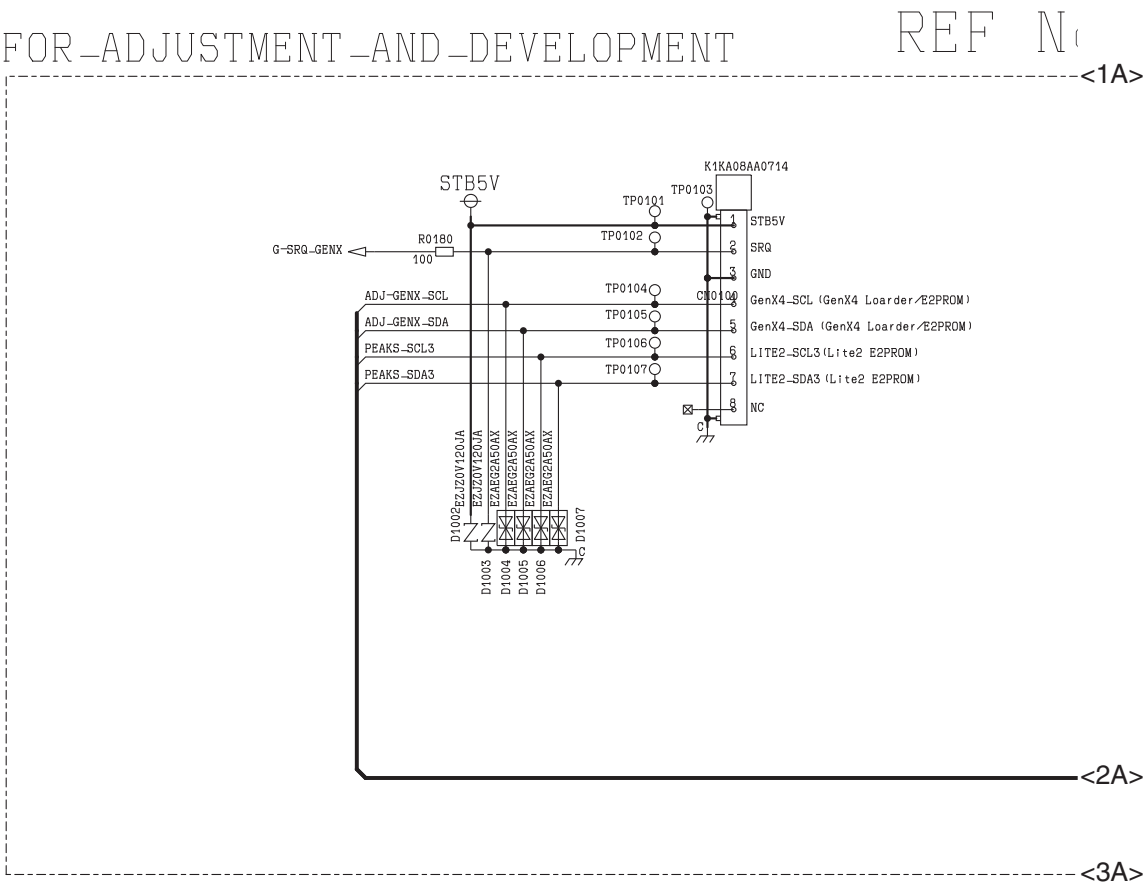
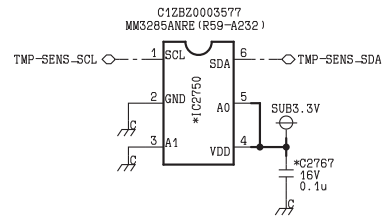
11.2.51. A Board - Sheet : 012 (2 / 3)



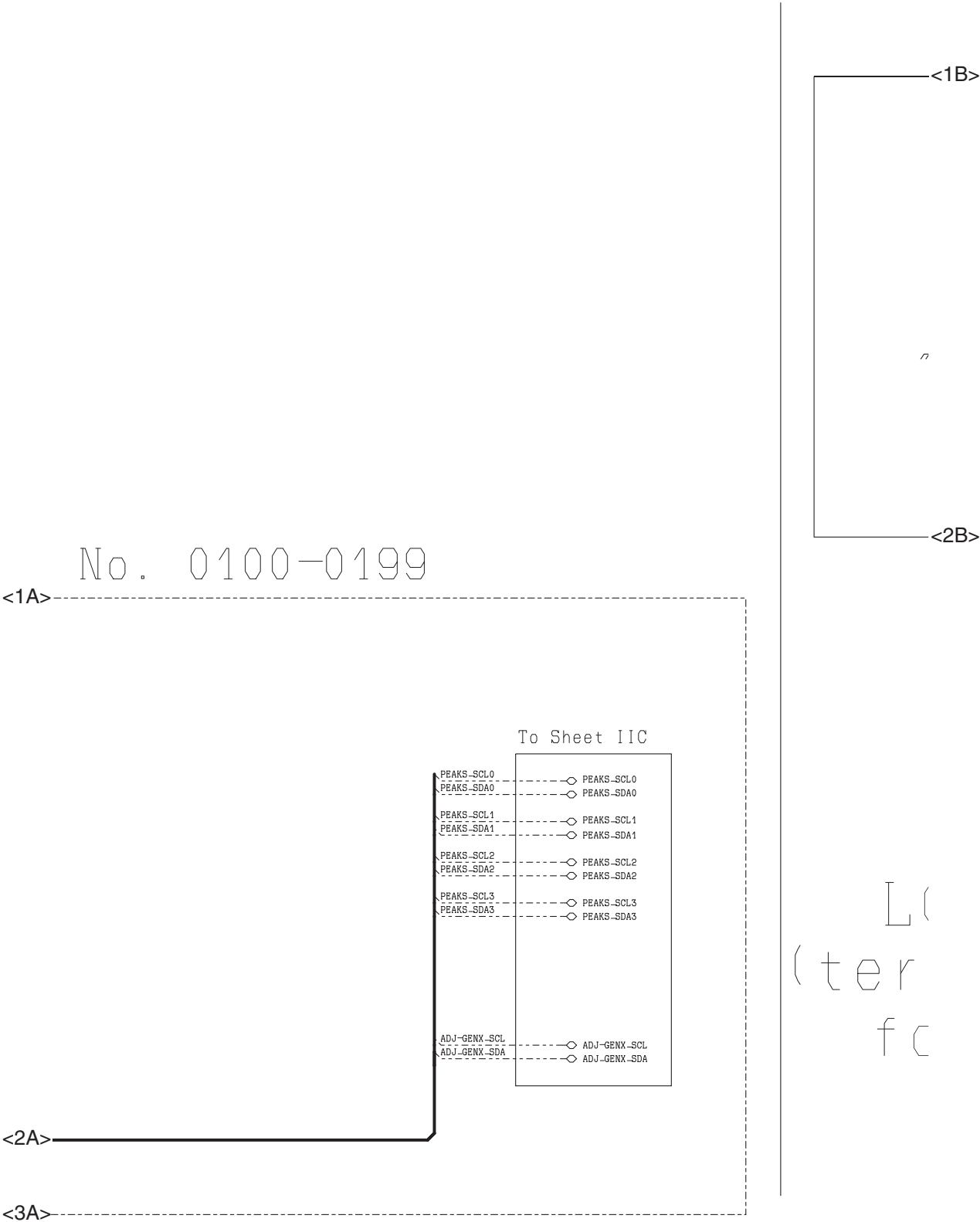
11.2.52. A Board - Sheet : 012 (3 / 3)

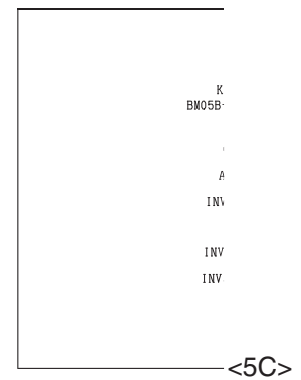
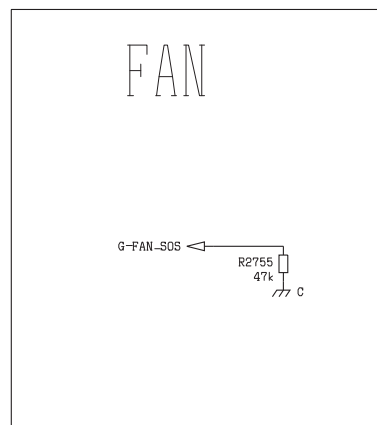


11.2.53. A Board - Sheet : 013 (1 / 5)



11.2.54. A Board - Sheet : 013 (2 / 5)

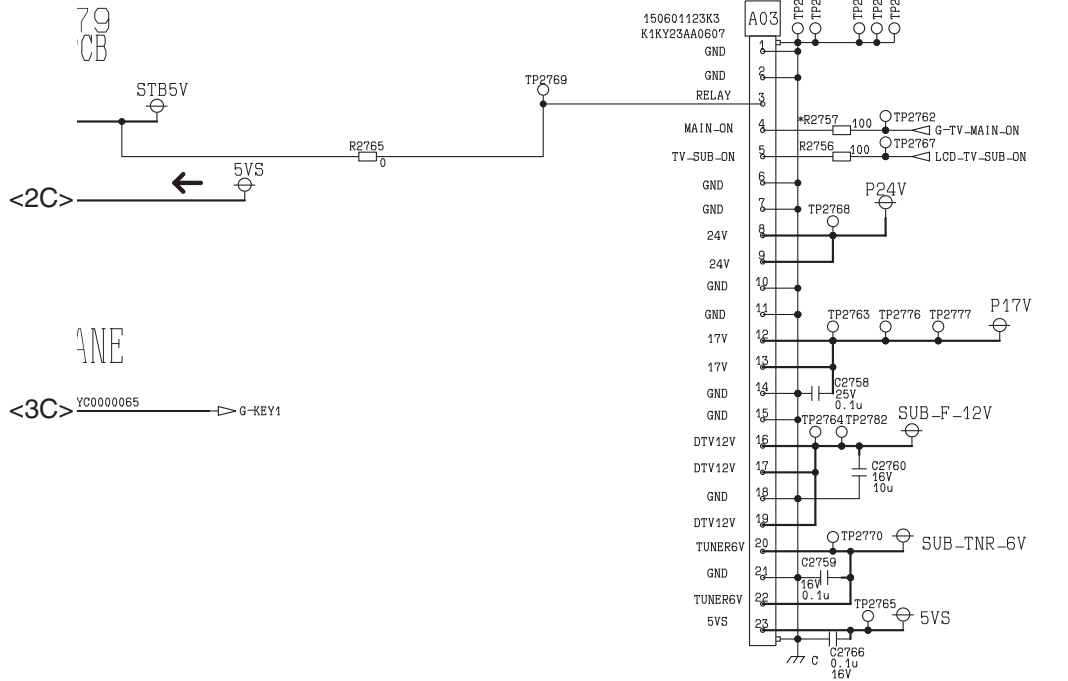




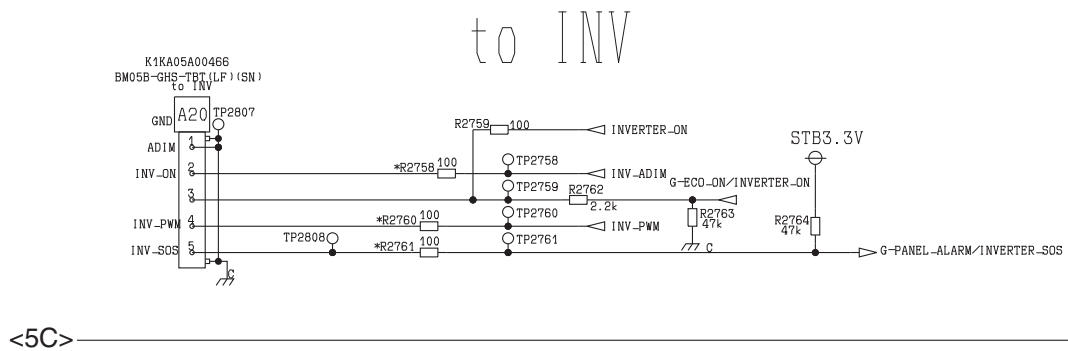
11.2.56. A Board - Sheet : 013 (4 / 5)

<1C>

to P-PCB & S-PCB

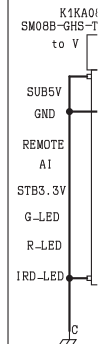


<4C>



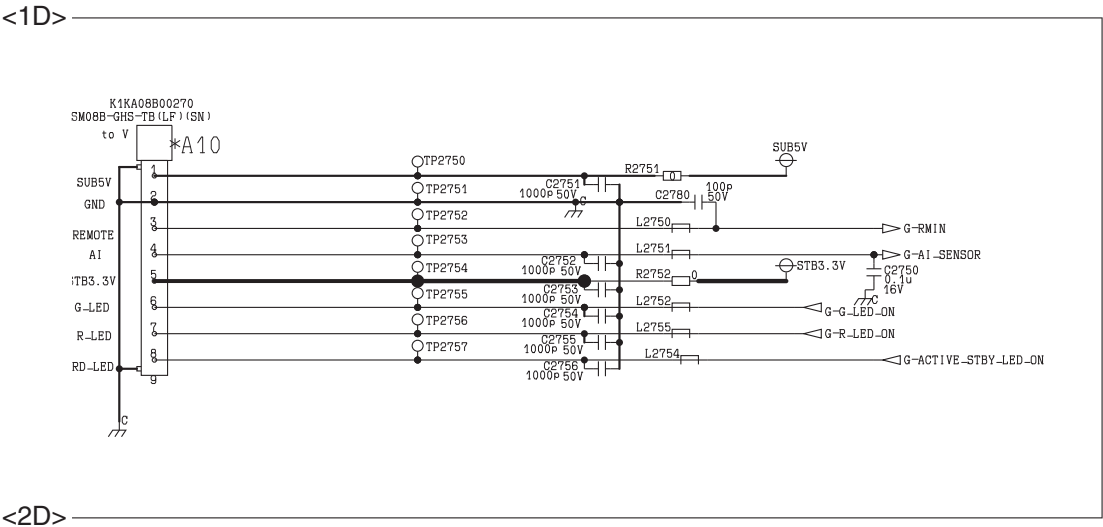
<5C>

<1D>

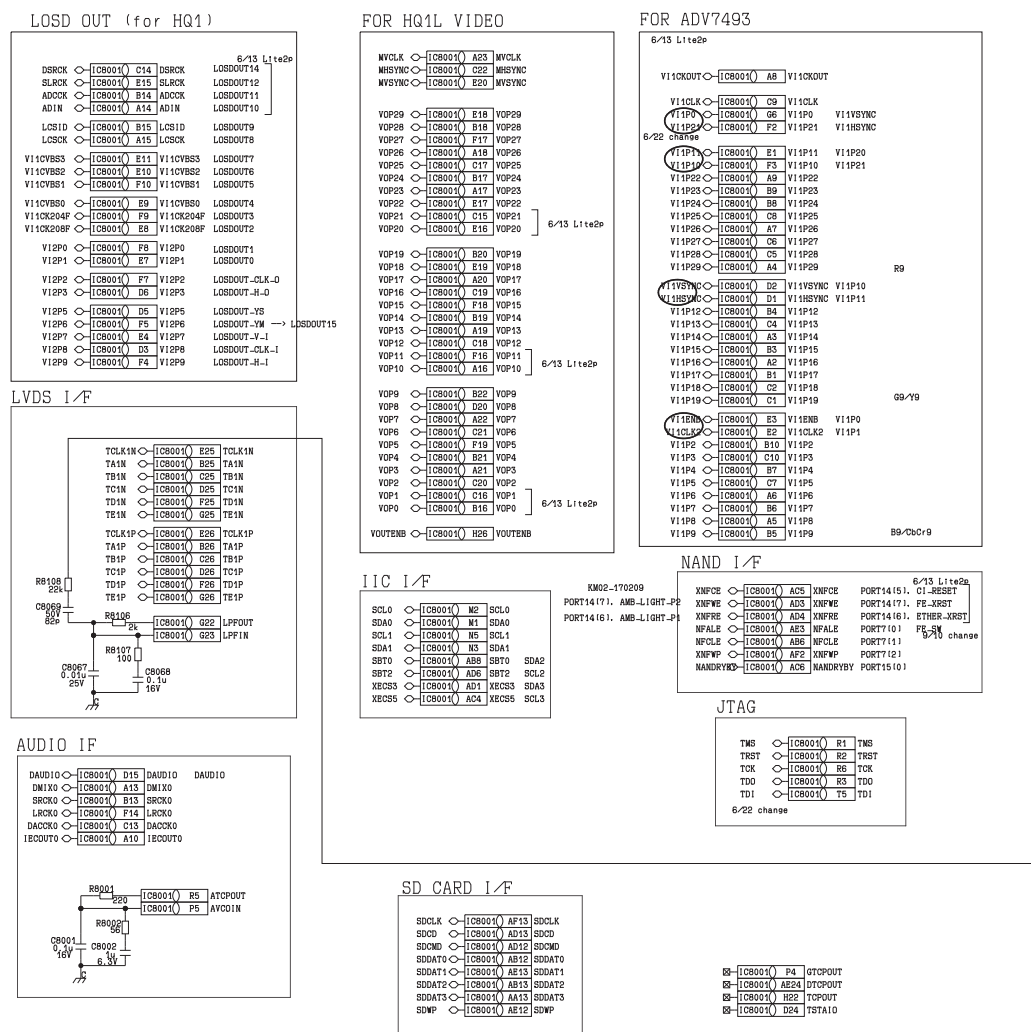


<2D>

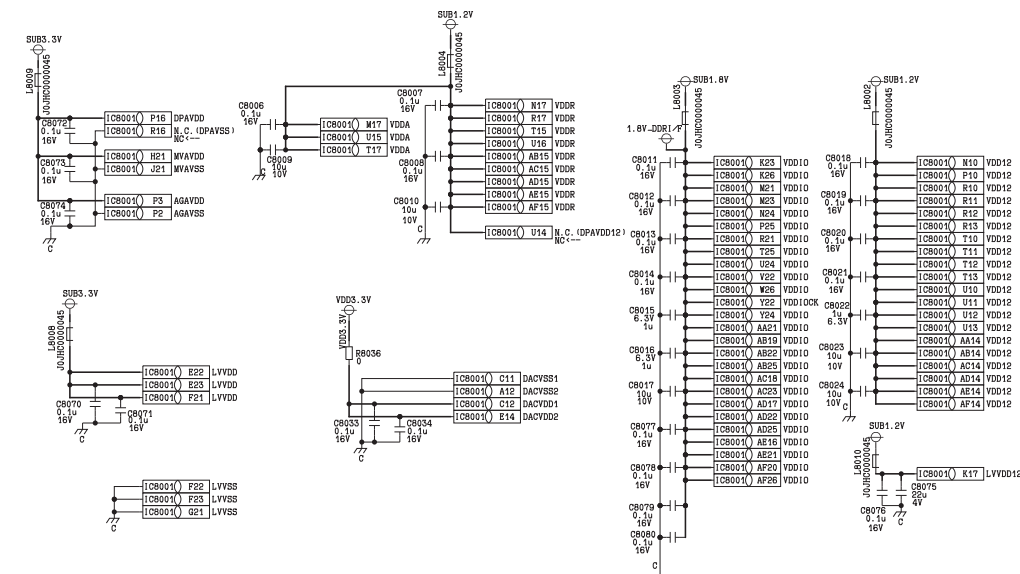
11.2.57. A Board - Sheet : 013 (5 / 5)



11.2.58. A Board - Sheet : 014 (1 / 4)



— $\langle 1A \rangle$





11.2.60. A Board - Sheet : 014 (3 / 4)

<1B>

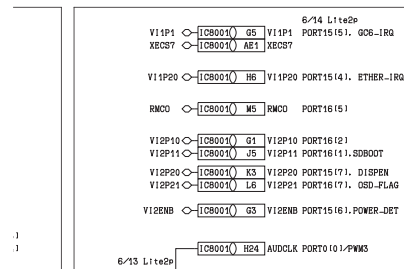
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3    XPDCE2
1    PORT14(13), XPDCE
1    PORT14(14), XPDWE
0    HVALIN
0    HSSVIN
0    HSCLKIN
0    HSDIN0
0    HSDIN1
0    HSDIN2
0    HSDIN3
0    HSDIN4
1    HSDIN5
1    HSDIN6
1    HSDIN7
1    XPD10RD, (PORT10(6))
1    XPD10WR, (PORT10(7))
0    XPDWT
3    XEDBA
1    XPDCE1
1    XPDCE2
1    PORT5(4), CI-POWER-ON
1    PORT16(6), CI-IREQ
1    PORT5(7), XEAB
1    PORT7(6), XETS
1    PIN1-PORT5(6)
1    PIN2-PORT5(5)

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<2B>

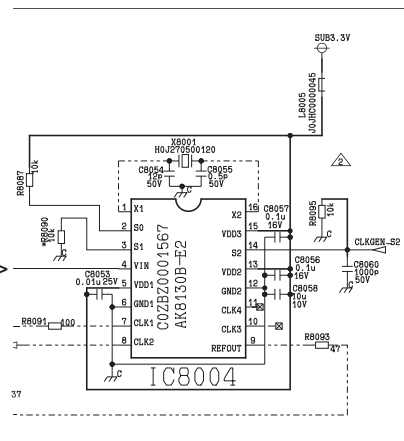
COMMON PORT .etc



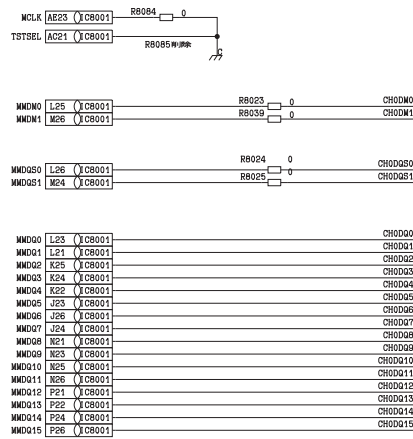
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<4B>

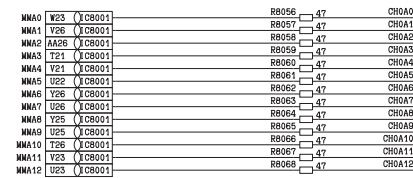
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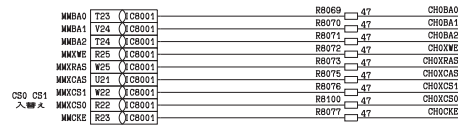
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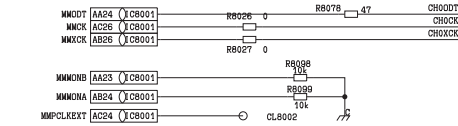
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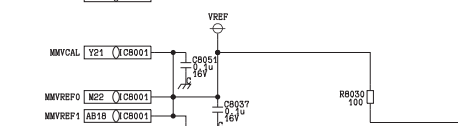
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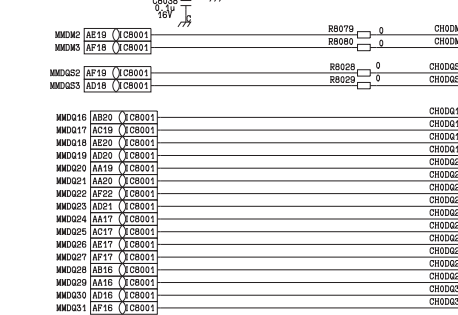
<4C>



<5C>



<6C>



11.2.61. A Board - Sheet : 014 (4 / 4)

<1C>

84FBGA

DDR2-0

DDR2 #0

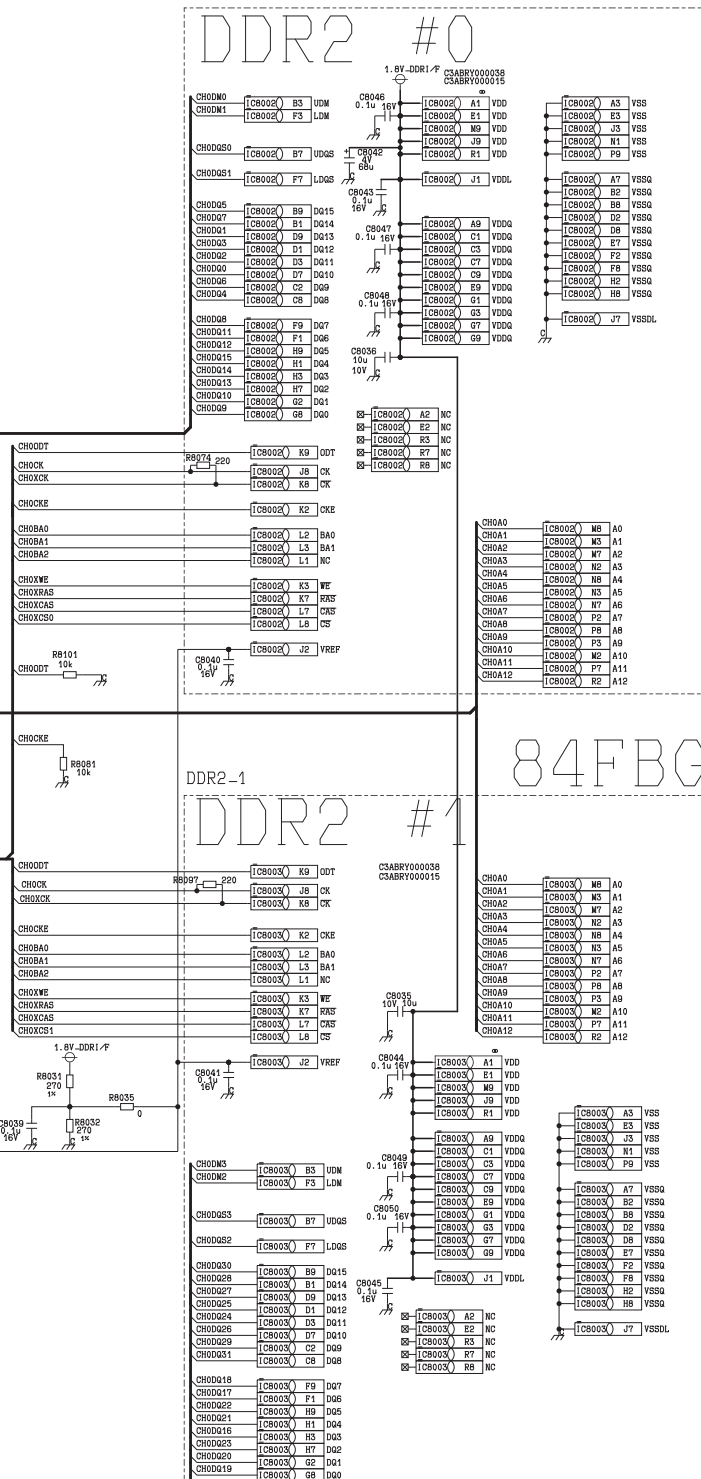
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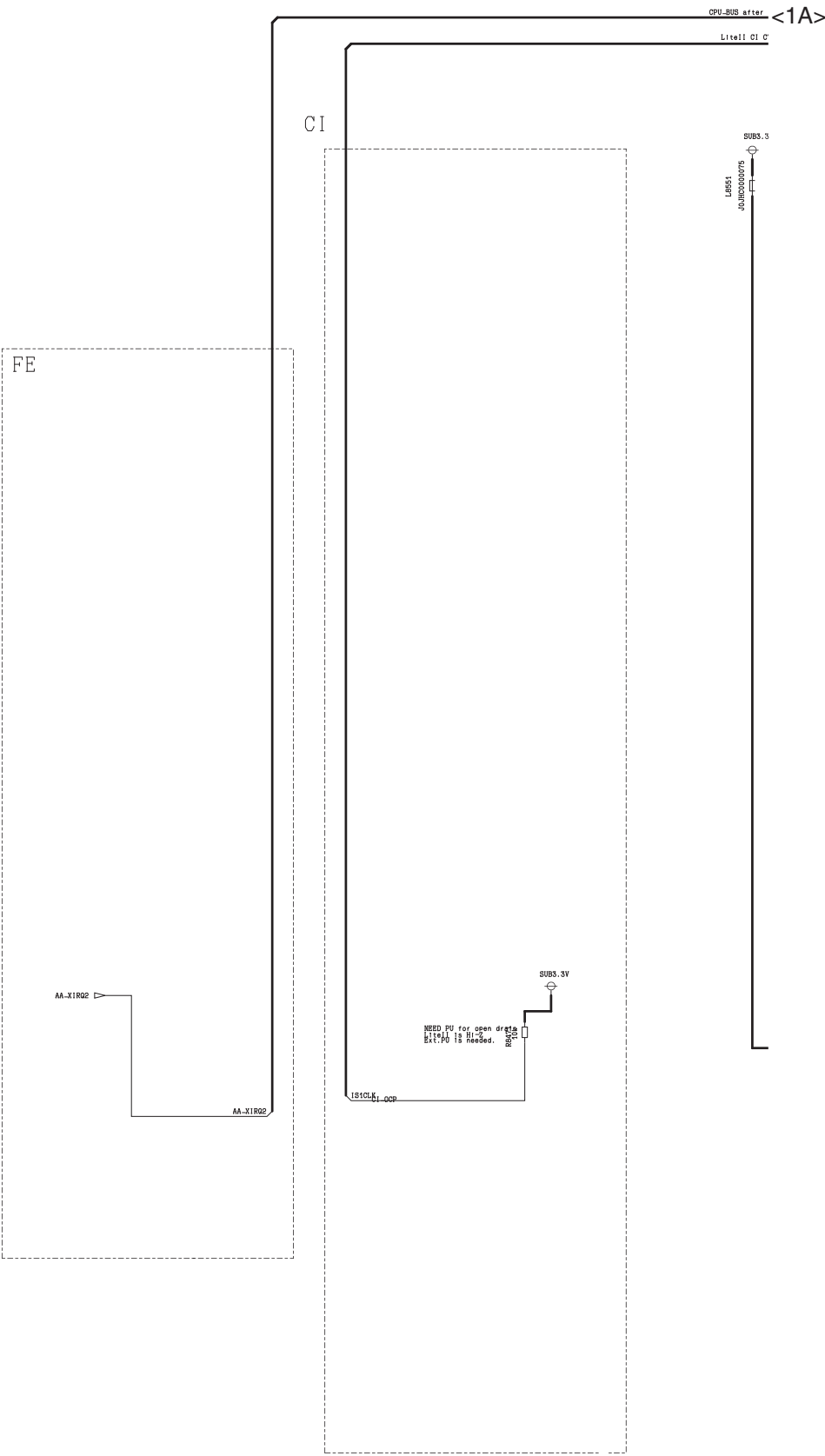
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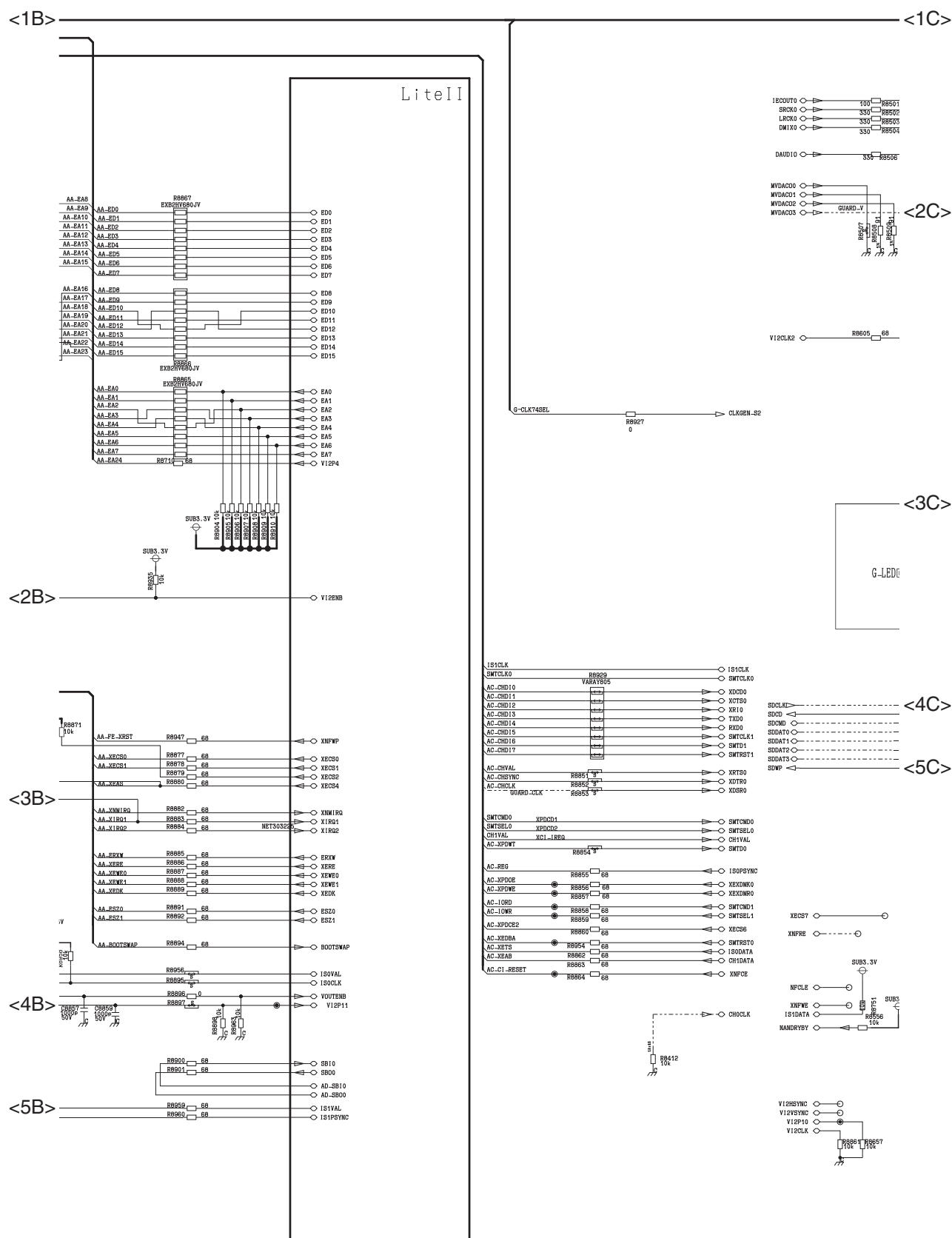
84FBGA

11.2.62. A Board - Sheet : 015 (1 / 5)

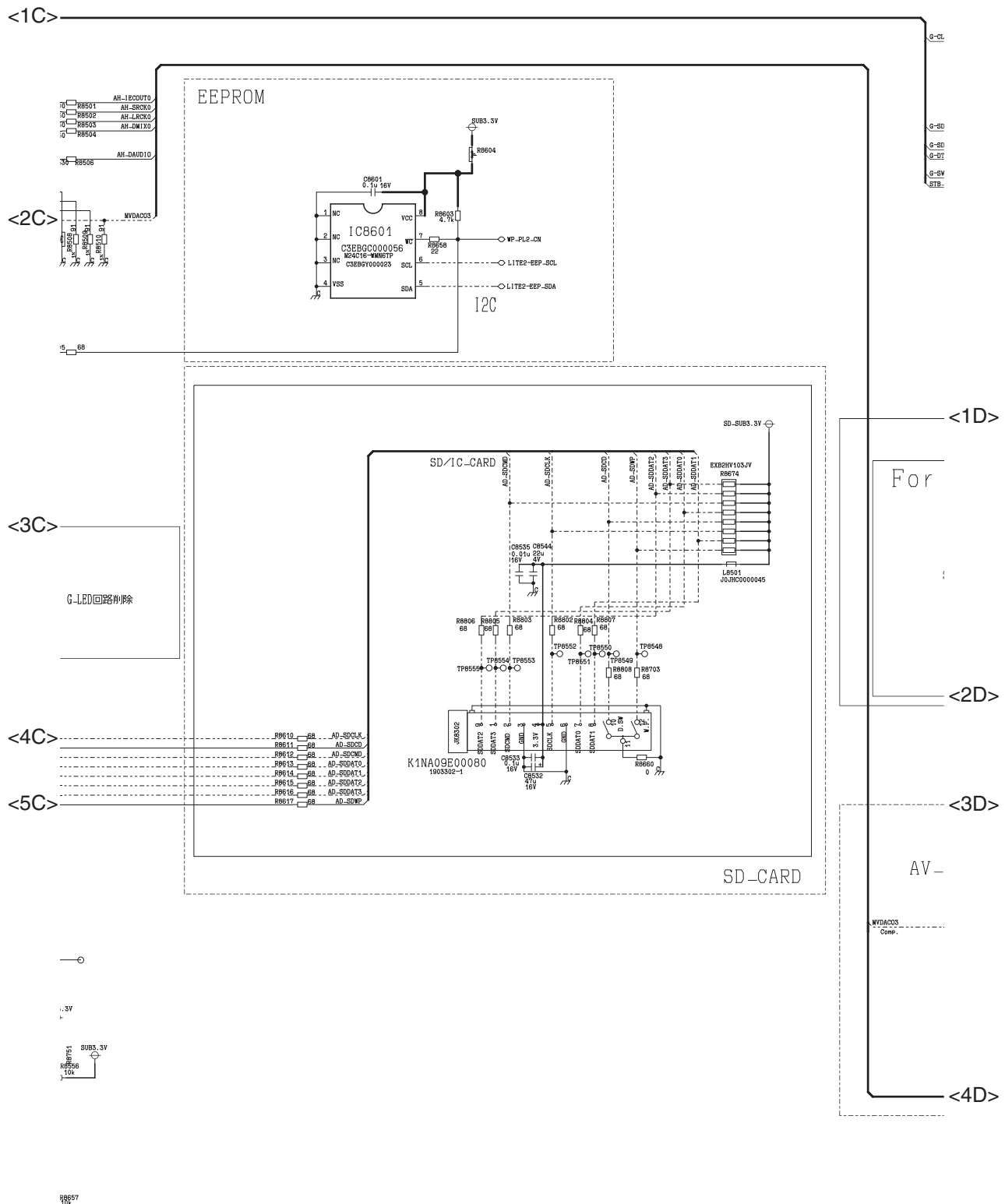




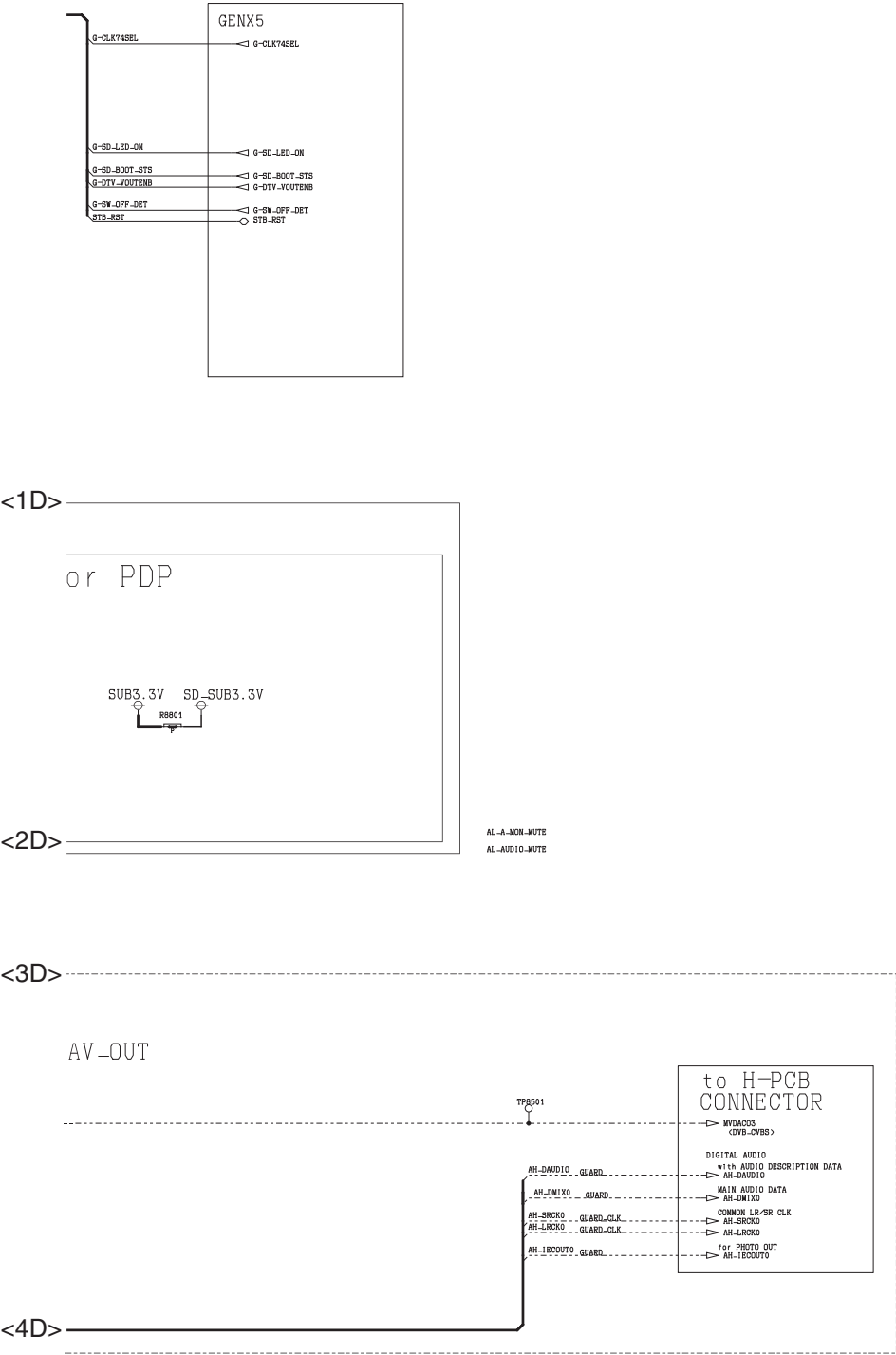
11.2.64. A Board - Sheet : 015 (3 / 5)



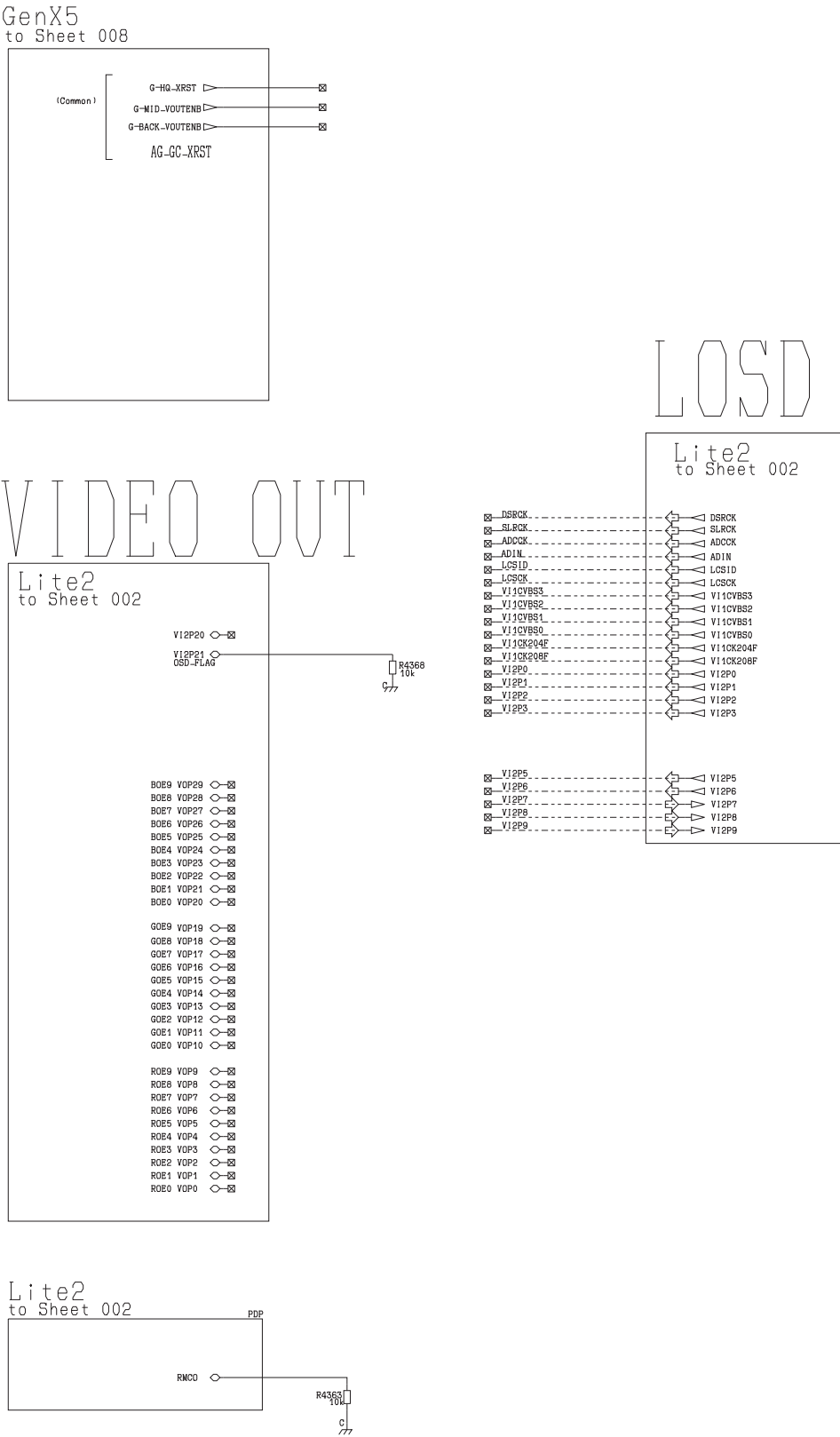
11.2.65. A Board - Sheet : 015 (4 / 5)



11.2.66. A Board - Sheet : 015 (5 / 5)

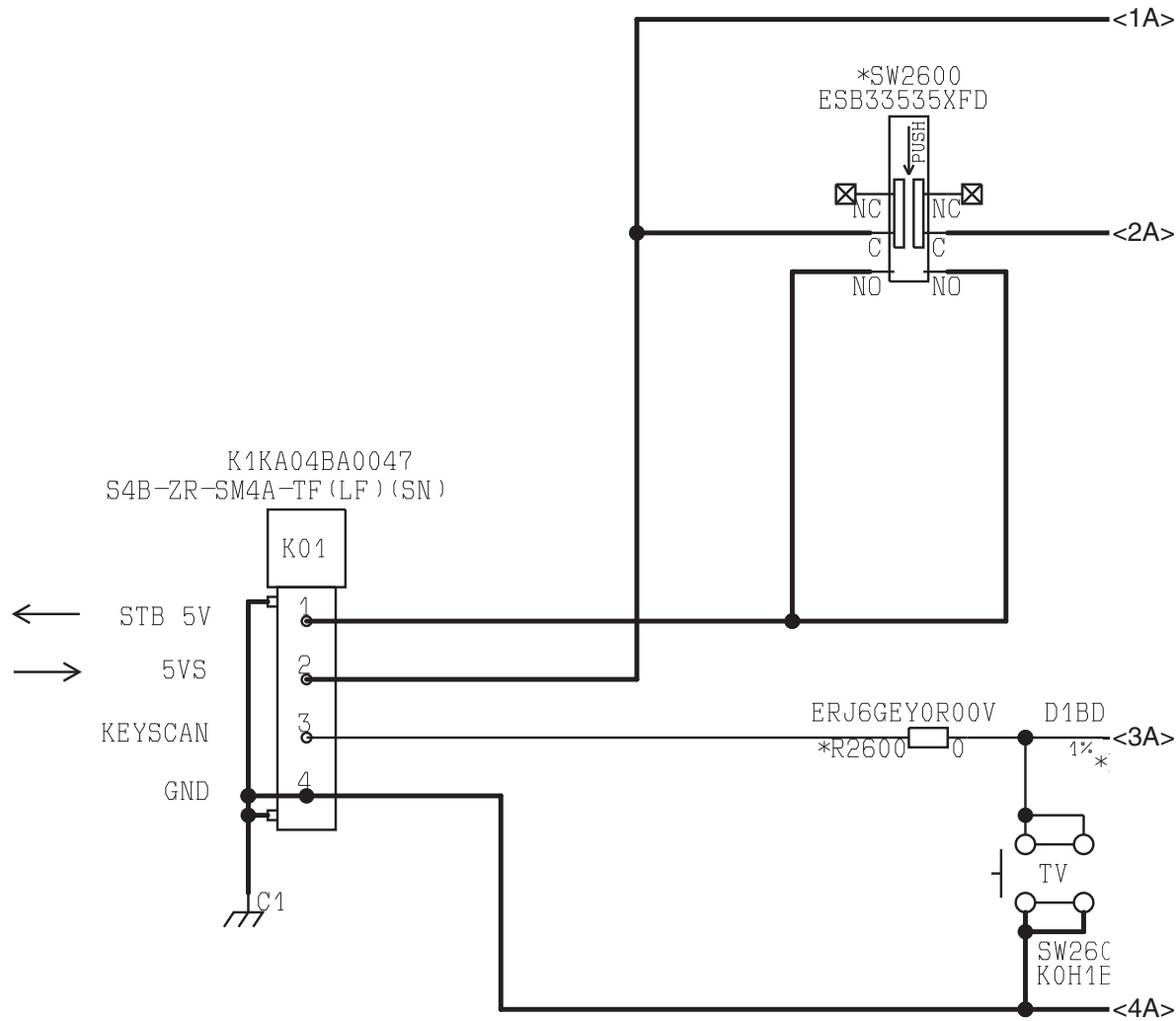


11.2.67. A Board - Sheet : 016 (1 / 1)

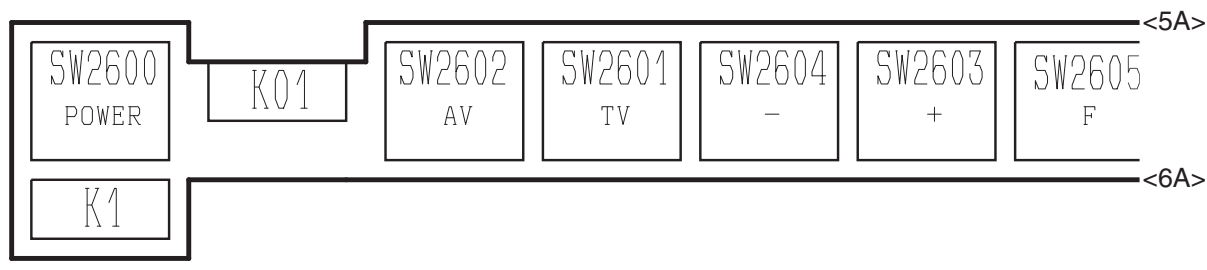


11.3. K Board

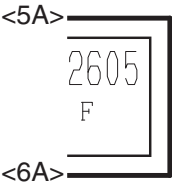
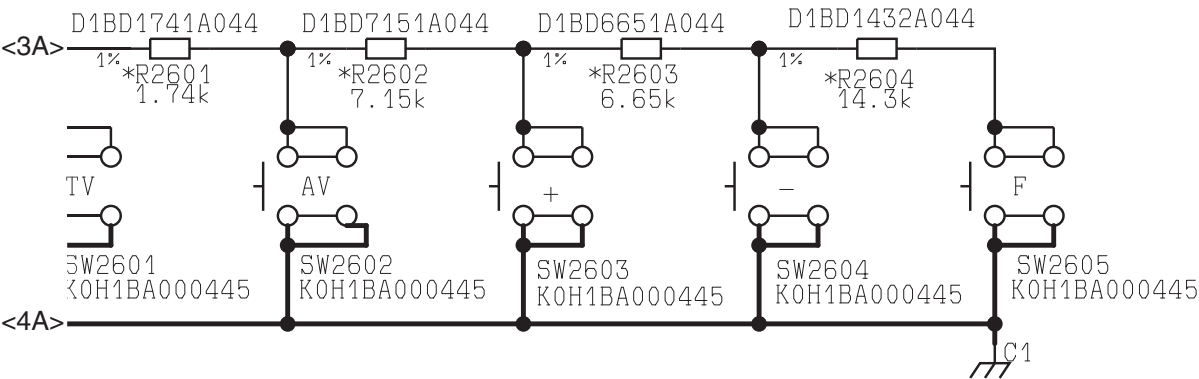
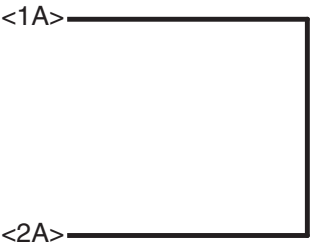
11.3.1. K Board (1 / 2)



KEY-REFERENCE (PARTS PATTERN)

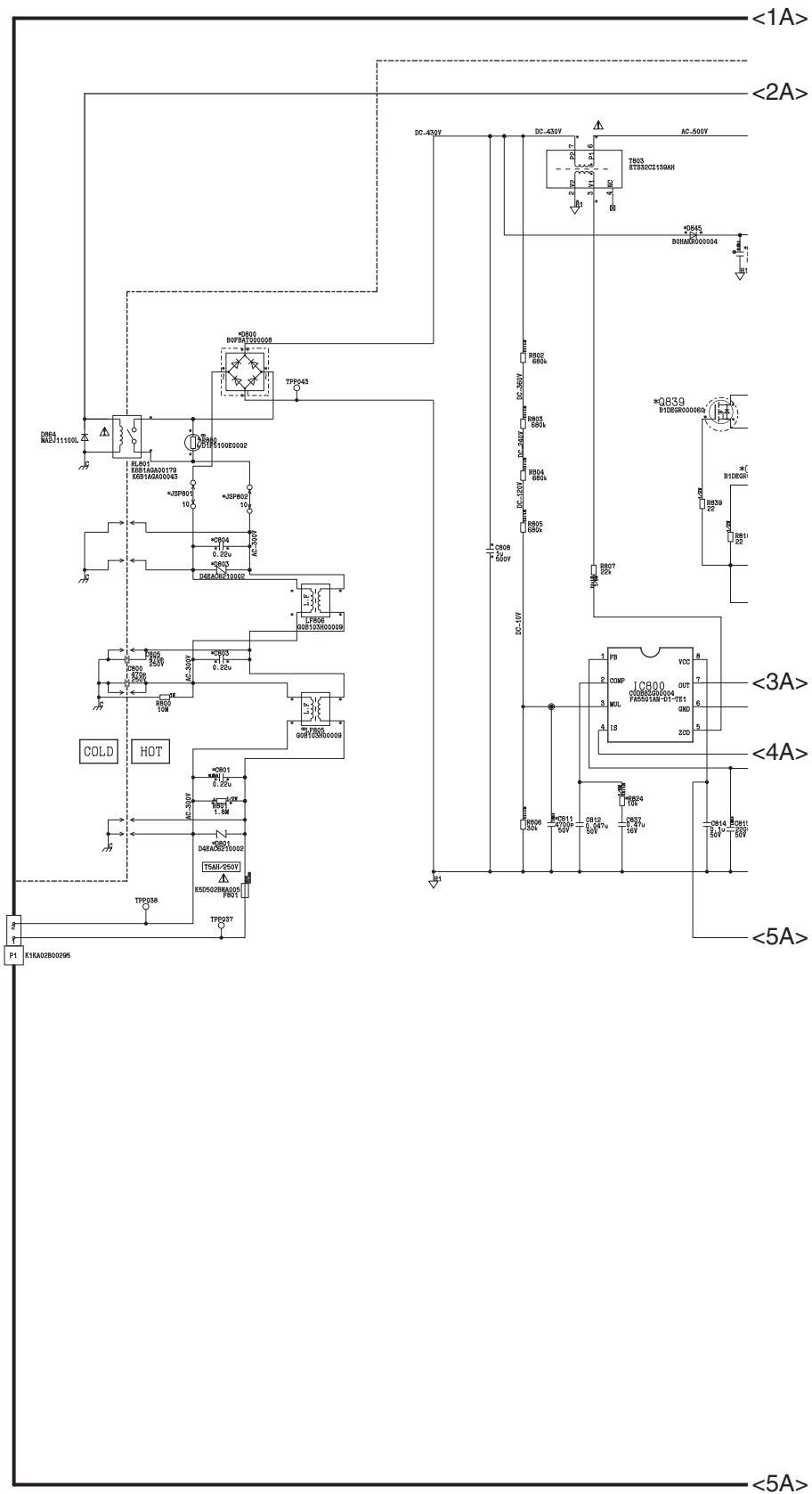


11.3.2. K Board (2 / 2)

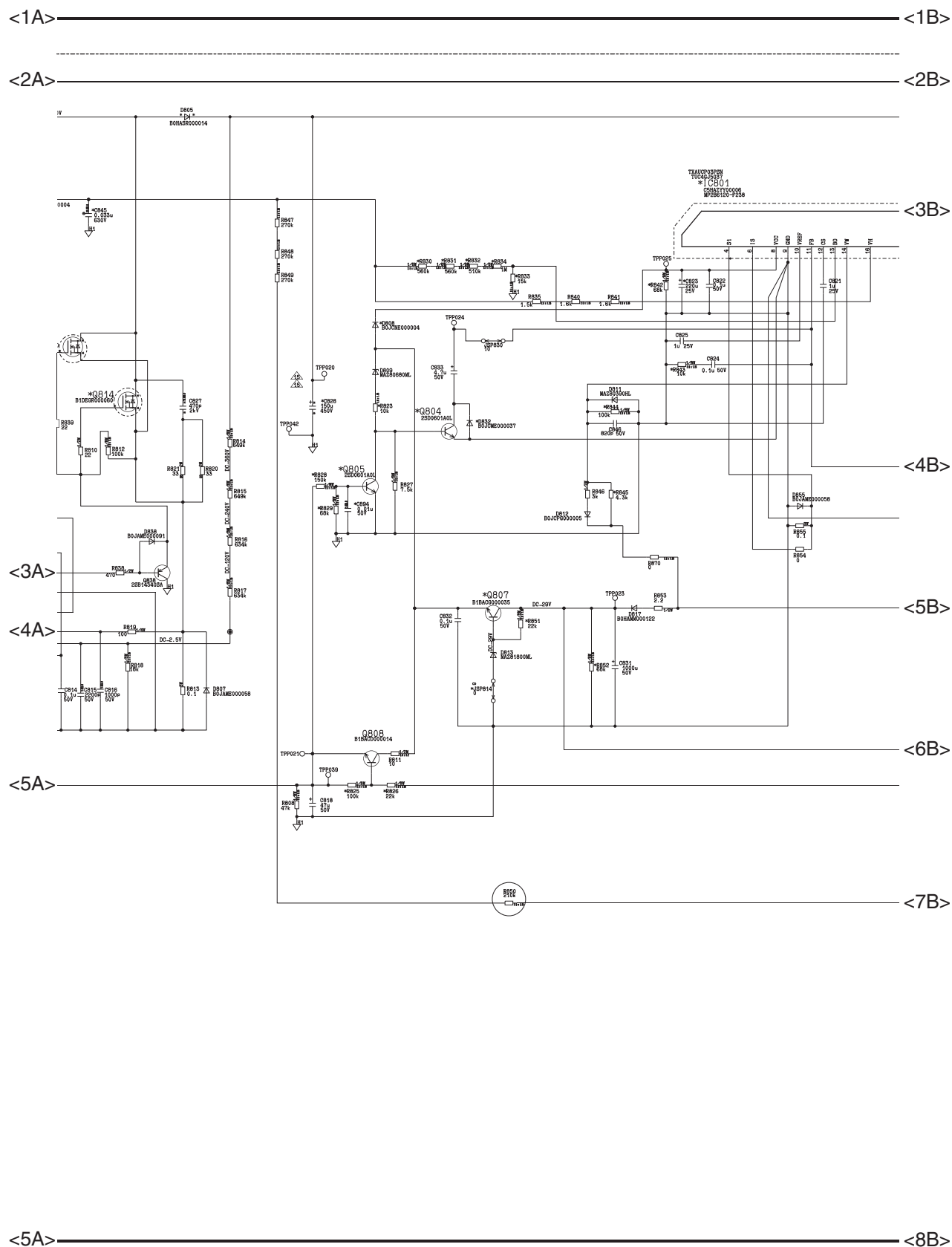


11.4. P Board

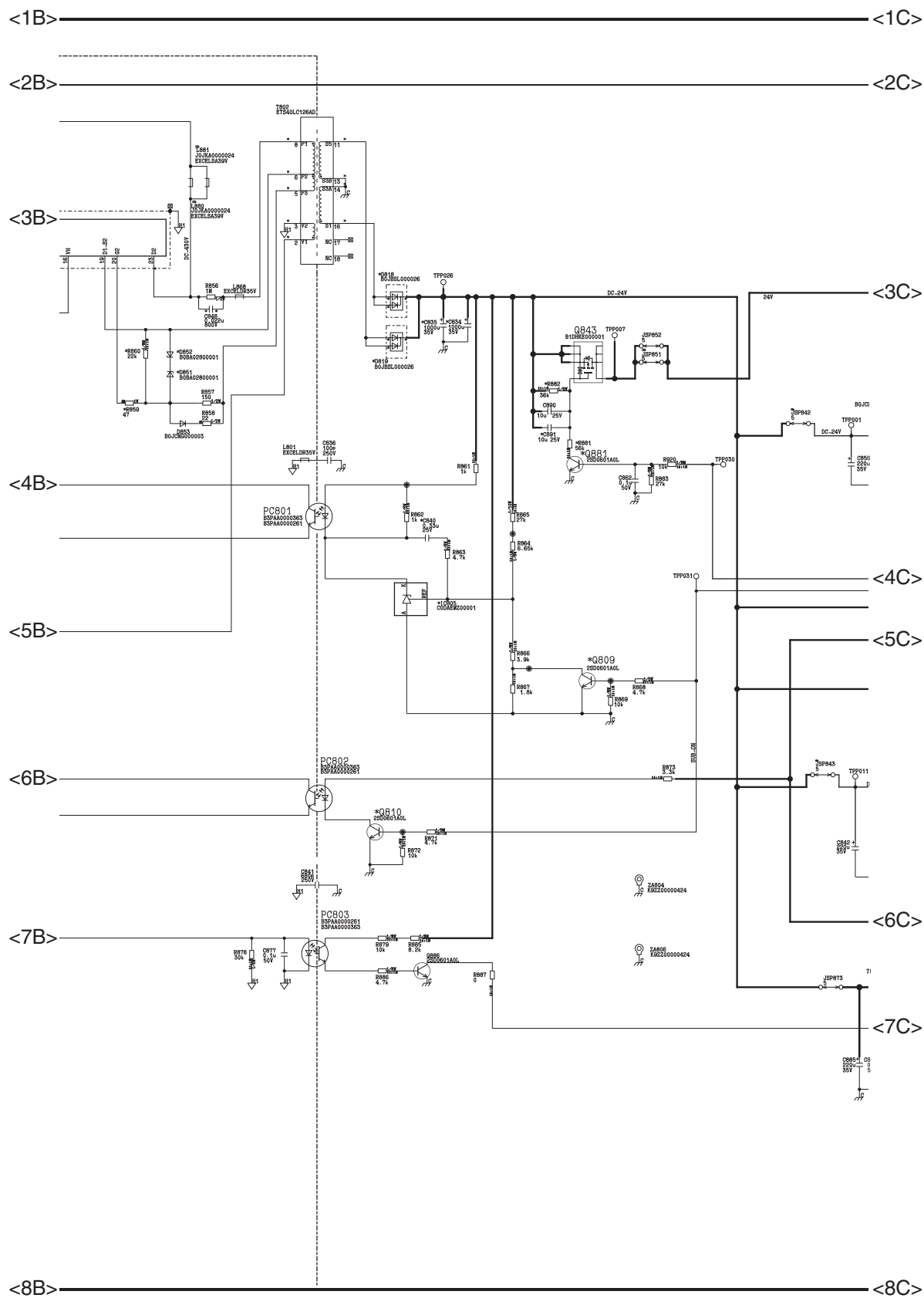
11.4.1. P Board (1 / 4)



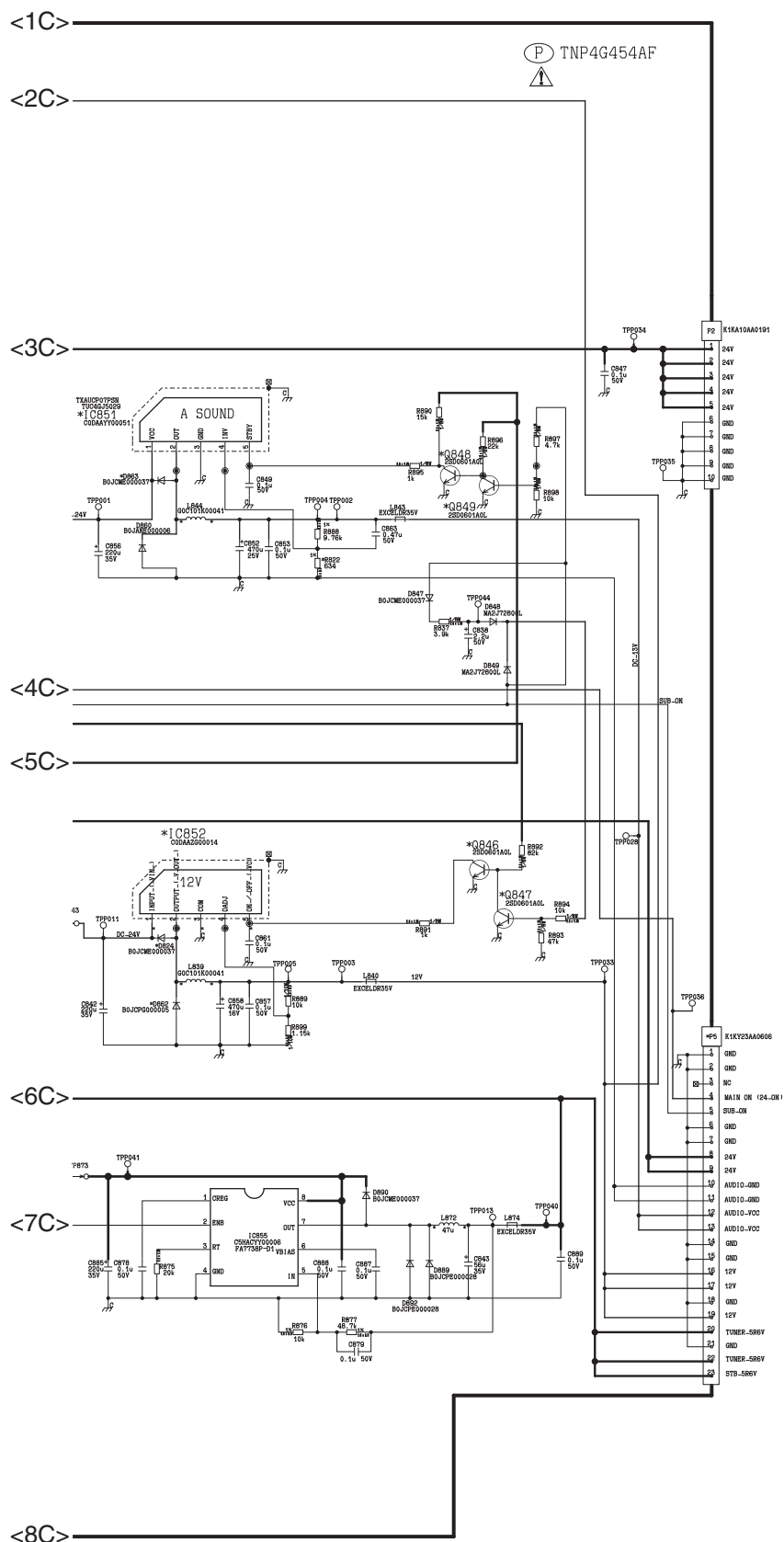
11.4.2. P Board (2 / 4)



11.4.3. P Board (3 / 4)

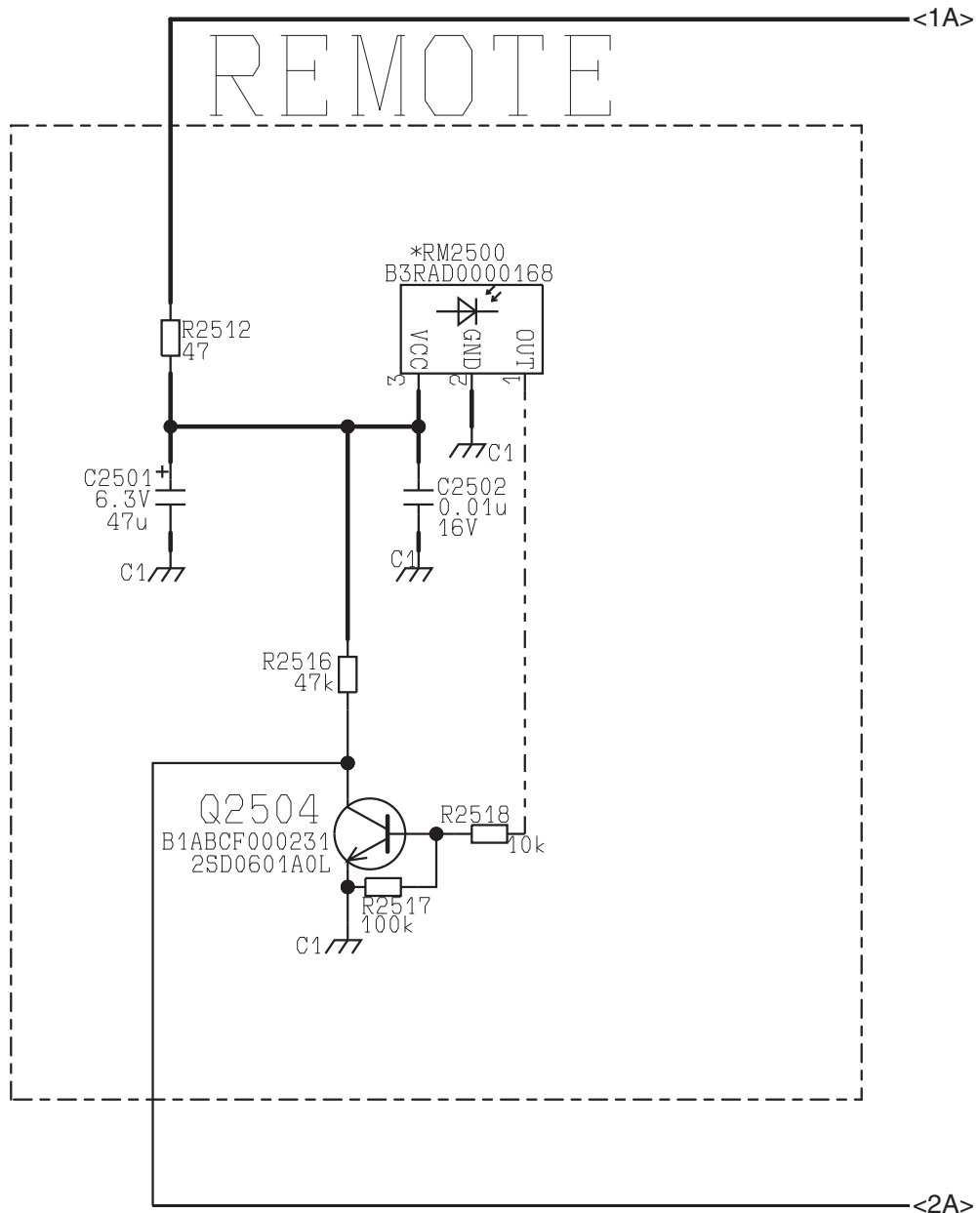


11.4.4. P Board (4 / 4)

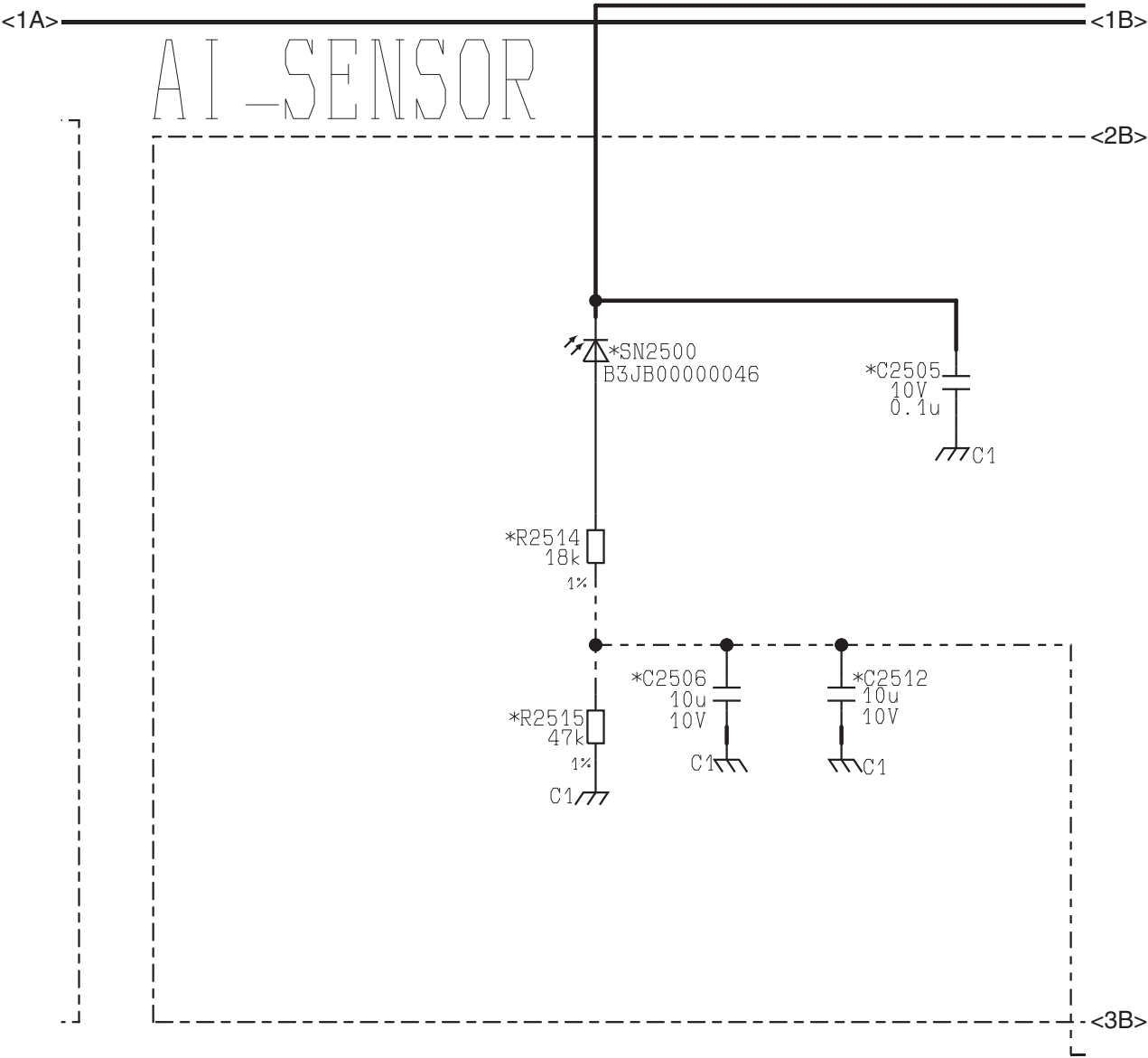


11.5. V Board

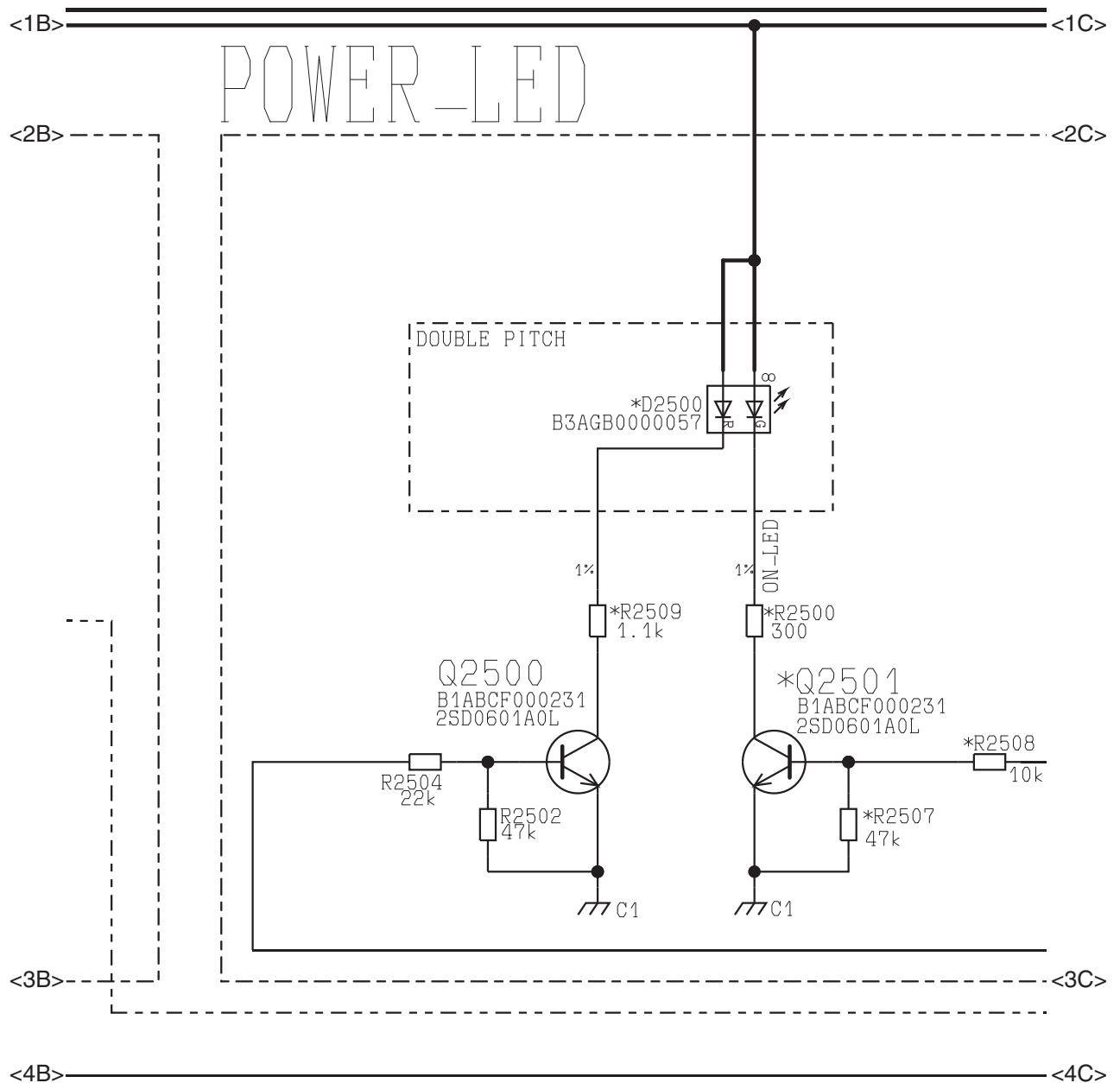
11.5.1. V Board (1 / 4)



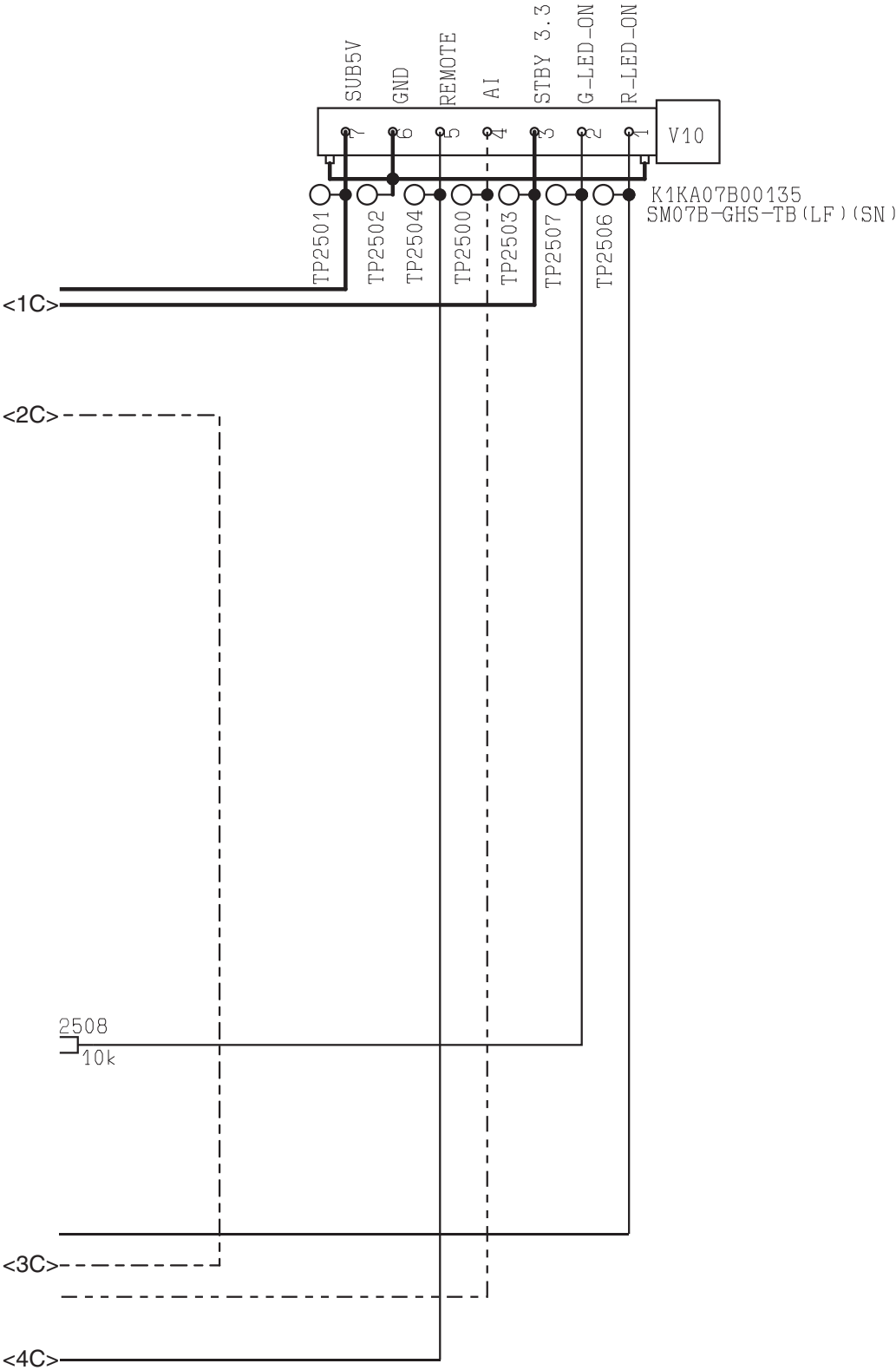
11.5.2. V Board (2 / 4)



11.5.3. V Board (3 / 4)



11.5.4. V Board (4 / 4)



12 Exploded View and Replacement Parts List

12.1. Exploded View and Mechanical Replacement Parts List

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

12.2. Electrical Replacement Parts List

12.2.1. Replacement Parts List Notes

Important Safety Notice

Components identified by  mark have special characteristics important for safety.
When replacing any of these components, use manufacturer's specified parts.

Note: Printed circuit board assembly with “NLA” is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example :

ERD25TJ104 C 100 K Ω , J, 1/4 W

Type Allowance

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

2. Capacitor

Example :

ECKF1H103ZF C 0.01 μ F, Z, 50 V

Type Allowance

Type	Allowance
C : Carbon	C : ± 0.25 pF
E : Electrolytic	D : ± 0.5 pF
P : Polyester Polypropylene	F : ± 1 pF G : $\pm 3\%$
T : Tantalum	J : $\pm 5\%$ K : $\pm 10\%$ L : $\pm 15\%$ M : $\pm 20\%$ P : $\pm 100\%$, -0% Z : $\pm 80\%$, -20%

12.2.2. Electrical Replacement Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
	C1009	F1G1A105A047	CAPACITOR	
	C1012	F1G1C104A116	CERAMIC CAPACITOR	
	C1040	F1G1H102A730	CERAMIC CAPACITOR	
	C1041	F1G1H102A730	CERAMIC CAPACITOR	
	C1043	F1G1H102A730	CERAMIC CAPACITOR	
	C1044	F1G1H102A730	CERAMIC CAPACITOR	
	C1045	F1G1H102A730	CERAMIC CAPACITOR	
	C1050	F1G1H102A730	CERAMIC CAPACITOR	
	C1051	F1G1H102A730	CERAMIC CAPACITOR	
	C1052	F1G1H102A730	CERAMIC CAPACITOR	
	C1102	F1J1A106A043	CERAMIC CAPACITOR	
	C1103	F1G1C104A116	CERAMIC CAPACITOR	
	C1104	F1G1C104A116	CERAMIC CAPACITOR	
	C1106	F1H1H330A971	CHIP CAPACITOR	
	C1107	F1G1H220A731	CERAMIC CAPACITOR	
	C1108	F1G1C104A116	CERAMIC CAPACITOR	
	C1109	F1H1A1050032	CERAMIC CAPACITOR	
	C1111	F1H1A1050032	CERAMIC CAPACITOR	
	C1112	F1G1C104A116	CERAMIC CAPACITOR	
	C1114	F1G1C104A116	CERAMIC CAPACITOR	
	C1117	F1G1C104A116	CERAMIC CAPACITOR	
	C1122	F1G1E103A123	CERAMIC CAPACITOR	
	C1123	F1H1A1050032	CERAMIC CAPACITOR	
	C2023	F1G1C104A116	CERAMIC CAPACITOR	
	C2049	F1G1C104A116	CERAMIC CAPACITOR	
	C2050	F1G1C104A116	CERAMIC CAPACITOR	
	C2055	F1G1H120A731	CERAMIC CAPACITOR	
	C2056	F1G1H180A731	CERAMIC CAPACITOR	
	C2058	F1G1C104A116	CERAMIC CAPACITOR	
	C2059	F1J1A106A043	CERAMIC CAPACITOR	
	C2091	F1G1H470A731	CHIP CAPACITOR	
	C2092	F1G1H220A731	CERAMIC CAPACITOR	
	C2096	F1G1C104A116	CERAMIC CAPACITOR	
	C2098	EEH0J221UP	CERAMIC CAPACITOR	
	C2099	EEH0J221UP	CERAMIC CAPACITOR	
	C2102	F1G1C104A116	CERAMIC CAPACITOR	
	C2105	F1G1C104A116	CERAMIC CAPACITOR	
	C2106	F1G1C104A116	CERAMIC CAPACITOR	
	C2107	F1J1A106A043	CERAMIC CAPACITOR	
	C2108	F1J1A106A043	CERAMIC CAPACITOR	
	C2109	F1G1C104A116	CERAMIC CAPACITOR	
	C2110	F1G1C104A116	CERAMIC CAPACITOR	
	C2111	F1J1A475A039	CERAMIC CAPACITOR	
	C2112	F1J1A106A043	CERAMIC CAPACITOR	
	C2113	F1J1A106A043	CERAMIC CAPACITOR	
	C2114	F1G1C104A116	CERAMIC CAPACITOR	
	C2115	F1G1C104A116	CERAMIC CAPACITOR	
	C2117	F1G1C104A116	CERAMIC CAPACITOR	
	C2118	F1J1A475A039	CERAMIC CAPACITOR	
	C2120	F1G1H560A731	CHIP CAPACITOR	
	C2121	F1G1H560A731	CHIP CAPACITOR	
	C2122	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2123	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2124	F1G1C104A116	CERAMIC CAPACITOR	
	C2125	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2127	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2128	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2129	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2135	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2136	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2137	F1J1A106A043	CERAMIC CAPACITOR	
	C2192	F1J1A106A043	CERAMIC CAPACITOR	
	C2216	F1G1C104A116	CERAMIC CAPACITOR	
	C2244	F1G1C104A116	CERAMIC CAPACITOR	
	C2245	F1G1H102A730	CERAMIC CAPACITOR	
	C2251	F1J1A106A043	CERAMIC CAPACITOR	
	C2263	F1J1A106A043	CERAMIC CAPACITOR	
	C2264	F1J1A106A043	CERAMIC CAPACITOR	
	C2265	F1G1H101A731	CHIP RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C2266	F1G1H101A731	CHIP RESISTOR	
	C2301	F1G1C104A116	CERAMIC CAPACITOR	
	C2302	F1G1C104A116	CERAMIC CAPACITOR	
	C2303	F1J1E105A171	CERAMIC CAPACITOR	
	C2305	F1J1E105A171	CERAMIC CAPACITOR	
	C2309	F1J1E105A171	CERAMIC CAPACITOR	
	C2313	F1H1A1050032	CERAMIC CAPACITOR	
	C2317	F1H1H104A970	CHIP CAPACITOR	
	C2319	F1H1H104A970	CHIP CAPACITOR	
	C2321	F1H1H104A970	CHIP CAPACITOR	
	C2323	F1H1H104A970	CHIP CAPACITOR	
	C2325	F1J1H474A757	CERAMIC CAPACITOR	
	C2331	F1J1H474A757	CERAMIC CAPACITOR	
	C2333	F1H1E104A129	CERAMIC CAPACITOR	
	C2335	F1H1E104A129	CERAMIC CAPACITOR	
	C2337	F1H1H223A970	CERAMIC CAPACITOR	
	C2339	F1H1H223A970	CERAMIC CAPACITOR	
	C2341	F1H1E104A129	CERAMIC CAPACITOR	
	C2343	F1H1E104A129	CERAMIC CAPACITOR	
	C2345	F1H1H223A970	CERAMIC CAPACITOR	
	C2347	F1H1H223A970	CERAMIC CAPACITOR	
	C2353	F1G1H102A730	CERAMIC CAPACITOR	
	C2359	F1G1H102A730	CERAMIC CAPACITOR	
	C2361	F2G1E4710007	ELECTROLYTIC CAPACITOR	
	C2362	F1K1E106A136	CERAMIC CAPACITOR	
	C2375	F1H1H223A970	CERAMIC CAPACITOR	
	C2377	F1H1H223A970	CERAMIC CAPACITOR	
	C2379	F1H1H223A970	CERAMIC CAPACITOR	
	C2381	F1H1H223A970	CERAMIC CAPACITOR	
	C2383	F1G1H102A730	CERAMIC CAPACITOR	
	C2385	F1G1H102A730	CERAMIC CAPACITOR	
	C2387	F1G1H102A730	CERAMIC CAPACITOR	
	C2389	F1G1H102A730	CERAMIC CAPACITOR	
	C2390	F1J1E105A171	CERAMIC CAPACITOR	
	C2501	F2G0J470A019	ELECTROLYTIC CAPACITOR	
	C2502	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C2505	F1G1A104A053	CERAMIC CAPACITOR	
	C2506	F1J1A106A043	CERAMIC CAPACITOR	
	C2512	F1J1A106A043	CERAMIC CAPACITOR	
	C2750	F1G1C104A116	CERAMIC CAPACITOR	
	C2751	F1G1H102A730	CERAMIC CAPACITOR	
	C2752	F1G1H102A730	CERAMIC CAPACITOR	
	C2753	F1G1H102A730	CERAMIC CAPACITOR	
	C2754	F1G1H102A730	CERAMIC CAPACITOR	
	C2755	F1G1H102A730	CERAMIC CAPACITOR	
	C2756	F1G1H102A730	CERAMIC CAPACITOR	
	C2757	F1G1H102A730	CERAMIC CAPACITOR	
	C2758	F1H1E104A129	CERAMIC CAPACITOR	
	C2759	F1G1C104A116	CERAMIC CAPACITOR	
	C2760	F1K1C1060004	CERAMIC CAPACITOR	
	C2761	F1G1C104A116	CERAMIC CAPACITOR	
	C2763	F1G1H102A730	CERAMIC CAPACITOR	
	C2766	F1G1C104A116	CERAMIC CAPACITOR	
	C2767	F1G1C104A116	CERAMIC CAPACITOR	
	C2780	F1G1H101A731	CHIP RESISTOR	
	C2906	F1H1C104A143	C 0.1UF,K, 16V	
	C2908	F1G1C104A116	CERAMIC CAPACITOR	
	C2909	F1H1A1050032	CERAMIC CAPACITOR	
	C2912	F2H0J1010009	CERAMIC CAPACITOR	
	C2914	F1H1H104A970	CHIP CAPACITOR	
	C2916	F1H1C104A143	C 0.1UF,K, 16V	
	C2919	F1H1C104A143	C 0.1UF,K, 16V	
	C2920	F1H1H103A970	CERAMIC CAPACITOR	
	C2922	F1H1C104A143	C 0.1UF,K, 16V	
	C2927	F1H1H100A971	CAPACITOR	
	C2928	F1G1H102A730	CERAMIC CAPACITOR	
	C2937	F1G1H103A735	CHIP RESISTOR	
	C2940	F1H1H102A970	CHIP CAPACITOR	
	C2942	F1H1H102A970	CHIP CAPACITOR	
	C2943	F1H1H102A970	CHIP CAPACITOR	
	C3002	F1G1H561A730	CHIP CAPACITOR	
	C3003	F1G1H561A730	CHIP CAPACITOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C3007	FLG1H561A730	CHIP CAPACITOR	
	C3008	FLG1H561A730	CHIP CAPACITOR	
	C3013	FLG1H561A730	CHIP CAPACITOR	
	C3014	FLG1H561A730	CHIP CAPACITOR	
	C3022	FLH1A1050032	CERAMIC CAPACITOR	
	C3024	FLH1A1050032	CERAMIC CAPACITOR	
	C3039	FLH1A1050032	CERAMIC CAPACITOR	
	C3041	FLH1A1050032	CERAMIC CAPACITOR	
	C3043	FLH1A1050032	CERAMIC CAPACITOR	
	C3044	FLH1A1050032	CERAMIC CAPACITOR	
	C3046	FLH1A1050032	CERAMIC CAPACITOR	
	C3047	FLH1A1050032	CERAMIC CAPACITOR	
	C3073	FLJ1A106A043	CERAMIC CAPACITOR	
	C3074	FLJ1A106A043	CERAMIC CAPACITOR	
	C3075	FLH1A1050032	CERAMIC CAPACITOR	
	C3077	FLG1C104A116	CERAMIC CAPACITOR	
	C3078	FLJ1A106A043	CERAMIC CAPACITOR	
	C3083	FLJ1A106A043	CERAMIC CAPACITOR	
	C3084	FLJ1A106A043	CERAMIC CAPACITOR	
	C3085	FLJ1A106A043	CERAMIC CAPACITOR	
	C3086	FLJ1A106A043	CERAMIC CAPACITOR	
	C3090	FLJ1A106A043	CERAMIC CAPACITOR	
	C3091	FLJ1A106A043	CERAMIC CAPACITOR	
	C3092	FLJ1A106A043	CERAMIC CAPACITOR	
	C3095	F2G1A101A019	ELECTROLYTIC CAPACITOR	
	C3099	FLG1H561A730	CHIP CAPACITOR	
	C3100	FLG1E333A091	CHIP CAPACITOR	
	C3101	FLG1E333A091	CHIP CAPACITOR	
	C3103	F2G1A101A019	ELECTROLYTIC CAPACITOR	
	C3107	FLJ1A106A043	CERAMIC CAPACITOR	
	C3108	FLJ1A106A043	CERAMIC CAPACITOR	
	C3109	FLJ1A106A043	CERAMIC CAPACITOR	
	C3114	FLJ1A106A043	CERAMIC CAPACITOR	
	C3115	FLJ1A106A043	CERAMIC CAPACITOR	
	C3116	FLJ1A106A043	CERAMIC CAPACITOR	
	C3117	FLJ1A106A043	CERAMIC CAPACITOR	
	C3139	FLG1C104A116	CERAMIC CAPACITOR	
	C3140	FLG1C104A116	CERAMIC CAPACITOR	
	C3141	FLG1C104A116	CERAMIC CAPACITOR	
	C3143	FLG1C104A116	CERAMIC CAPACITOR	
	C3144	FLJ1A106A043	CERAMIC CAPACITOR	
	C3145	FLG1C104A116	CERAMIC CAPACITOR	
	C3146	FLJ1A106A043	CERAMIC CAPACITOR	
	C3147	FLJ1A106A043	CERAMIC CAPACITOR	
	C3257	FLG1H561A730	CHIP CAPACITOR	
	C4239	FLJ1A106A043	CERAMIC CAPACITOR	
	C4240	FLJ1A106A043	CERAMIC CAPACITOR	
	C4241	F2G0J220A019	ELECTROLYTIC CAPACITOR	
	C4243	FLG1C104A116	CERAMIC CAPACITOR	
	C4250	FLH1H103A970	CERAMIC CAPACITOR	
	C4251	FLH1H103A970	CERAMIC CAPACITOR	
	C4252	EEEB1C470P	ELECTROLYTIC CAPACITOR	
	C4500	FLG1C104A116	CERAMIC CAPACITOR	
	C4501	FLG1C104A116	CERAMIC CAPACITOR	
	C4502	FLG1C104A116	CERAMIC CAPACITOR	
	C4503	FLG1C104A116	CERAMIC CAPACITOR	
	C4533	FLG1H680A731	CERAMIC CAPACITOR	
	C4534	FLG1C104A116	CERAMIC CAPACITOR	
	C4535	FLG1C104A116	CERAMIC CAPACITOR	
	C4547	FLG1C104A116	CERAMIC CAPACITOR	
	C4548	FLG1C104A116	CERAMIC CAPACITOR	
	C4549	FLG1C104A116	CERAMIC CAPACITOR	
	C4550	FLG1C104A116	CERAMIC CAPACITOR	
	C4551	FLG1C104A116	CERAMIC CAPACITOR	
	C4552	FLG1C104A116	CERAMIC CAPACITOR	
	C4553	FLG1H102A730	CERAMIC CAPACITOR	
	C4554	EEEB1C470P	ELECTROLYTIC CAPACITOR	
	C4555	FLJ1A106A043	CERAMIC CAPACITOR	
	C4574	FLG1C104A116	CERAMIC CAPACITOR	
	C4575	FLG1C104A116	CERAMIC CAPACITOR	
	C4580	FLG1C104A116	CERAMIC CAPACITOR	
	C4585	FLG1C104A116	CERAMIC CAPACITOR	
	C4595	FLG1C104A116	CERAMIC CAPACITOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4598	FLJ1A106A043	CERAMIC CAPACITOR	
	C4599	FLJ1A106A043	CERAMIC CAPACITOR	
	C4600	FLG1C104A116	CERAMIC CAPACITOR	
	C4601	FLJ1A106A043	CERAMIC CAPACITOR	
	C4602	FLG1C104A116	CERAMIC CAPACITOR	
	C4603	FLJ1A475A039	CERAMIC CAPACITOR	
	C4605	FLJ1A475A039	CERAMIC CAPACITOR	
	C4606	FLJ1A475A039	CERAMIC CAPACITOR	
	C4607	FLJ1A475A039	CERAMIC CAPACITOR	
	C4608	FLG1C104A116	CERAMIC CAPACITOR	
	C4613	FLH0J1050012	CERAMIC CAPACITOR	
	C4616	FLJ1A475A039	CERAMIC CAPACITOR	
	C4617	FLJ1A475A039	CERAMIC CAPACITOR	
	C4624	FLG1C104A116	CERAMIC CAPACITOR	
	C4625	FLG1C104A116	CERAMIC CAPACITOR	
	C4626	FLG1C104A116	CERAMIC CAPACITOR	
	C4628	FLG1C104A116	CERAMIC CAPACITOR	
	C4629	FLG1C104A116	CERAMIC CAPACITOR	
	C4630	FLG1C104A116	CERAMIC CAPACITOR	
	C4631	FLJ1A106A043	CERAMIC CAPACITOR	
	C4632	FLG1C104A116	CERAMIC CAPACITOR	
	C4633	FLJ1A106A043	CERAMIC CAPACITOR	
	C4634	FLG1C104A116	CERAMIC CAPACITOR	
	C4635	FLJ1A106A043	CERAMIC CAPACITOR	
	C4636	FLG1C104A116	CERAMIC CAPACITOR	
	C4637	FLG1C104A116	CERAMIC CAPACITOR	
	C4638	FLG1C104A116	CERAMIC CAPACITOR	
	C4640	FLG1C104A116	CERAMIC CAPACITOR	
	C4642	FLG1C104A116	CERAMIC CAPACITOR	
	C4643	FLG1C104A116	CERAMIC CAPACITOR	
	C4644	FLG1C104A116	CERAMIC CAPACITOR	
	C4645	FLG1C104A116	CERAMIC CAPACITOR	
	C5408	FLJ1A106A043	CERAMIC CAPACITOR	
	C5410	FLJ1E105A171	CERAMIC CAPACITOR	
	C5414	FLJ1E105A171	CERAMIC CAPACITOR	
	C5415	FLJ1E105A171	CERAMIC CAPACITOR	
	C5421	FLJ1A106A043	CERAMIC CAPACITOR	
	C5431	FLJ1E105A171	CERAMIC CAPACITOR	
	C5441	F2G1C100A022	ELECTROLYTIC CAPACITOR	
	C5443	F2G1V100A020	ELECTROLYTIC CAPACITOR	
	C5444	FLH1H102A970	CHIP CAPACITOR	
	C5464	FLH1A1050032	CERAMIC CAPACITOR	
	C5480	FLG1C103A116	CERAMIC CHIP CAPACITOR	
	C5481	FLH1A1050032	CERAMIC CAPACITOR	
	C5483	FLJ1A106A043	CERAMIC CAPACITOR	
	C5486	FLG1C473A081	CHIP CAPACITOR	
	C5487	FLH1C105A008	CHIP CAPACITOR	
	C5488	FLG1C473A081	CHIP CAPACITOR	
	C5489	FLJ1A106A043	CERAMIC CAPACITOR	
	C5492	FLG1C104A116	CERAMIC CAPACITOR	
	C5493	FLH1A1050032	CERAMIC CAPACITOR	
	C5494	FLH1C105A145	CHIP CAPACITOR	
	C5602	F2H0J1010009	CERAMIC CAPACITOR	
	C5603	FLG1C104A116	CERAMIC CAPACITOR	
	C5604	ECJ0EB1E682K	CERAMIC CAPACITOR	
	C5605	FLJ1A475A039	CERAMIC CAPACITOR	
	C5606	FLH1C105A145	CHIP CAPACITOR	
	C5607	FLG1H221A459	CERAMIC CAPACITOR	
	C5611	FLK1C1060004	CERAMIC CAPACITOR	
	C5612	FLK1C1060004	CERAMIC CAPACITOR	
	C5615	FLK1C1060004	CERAMIC CAPACITOR	
	C5616	FLG1C273A081	CHIP CAPACITOR	
	C5618	FLK1C1060004	CERAMIC CAPACITOR	
	C5619	FLK1C1060004	CERAMIC CAPACITOR	
	C5620	FLH1C104A143	C 0.1UF,K, 16V	
	C5621	FLG1E103A123	CERAMIC CAPACITOR	
	C5622	FLJ1A475A039	CERAMIC CAPACITOR	
	C5623	FLG1H221A459	CERAMIC CAPACITOR	
	C5624	FLG1H471A730	CHIP CAPACITOR	
	C5626	FLG1C104A116	CERAMIC CAPACITOR	
	C5627	FLG1C104A116	CERAMIC CAPACITOR	
	C5628	ECGRLOE680ER	CHIP CAPACITOR	
	C5629	ECGRLOE680ER	CHIP CAPACITOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C5631	EEH1C470P	ELECTROLYTIC CAPACITOR	
	C5632	F1H1C105A145	CHIP CAPACITOR	
	C5636	F1G1C104A116	CERAMIC CAPACITOR	
	C5637	F1G1C104A116	CERAMIC CAPACITOR	
	C5638	F1G1C104A116	CERAMIC CAPACITOR	
	C5639	F1G1C104A116	CERAMIC CAPACITOR	
	C5640	F1G1C104A116	CERAMIC CAPACITOR	
	C5641	F1G1C104A116	CERAMIC CAPACITOR	
	C5642	F1K1C1060004	CERAMIC CAPACITOR	
	C5643	F1H1C104A143	C 0.1UF, K, 16V	
	C5644	F1H1C105A145	CHIP CAPACITOR	
	C800	F1A2E471A003	CERAMIC CAPACITOR	
	C8001	F1G1C104A116	CERAMIC CAPACITOR	
	C8002	F1H0J1050012	CERAMIC CAPACITOR	
	C8003	F1H0J1050012	CERAMIC CAPACITOR	
	C8004	F1H0J1050012	CERAMIC CAPACITOR	
	C8005	F1H0J1050012	CERAMIC CAPACITOR	
	C8006	F1G1C104A116	CERAMIC CAPACITOR	
	C8007	F1G1C104A116	CERAMIC CAPACITOR	
	C8008	F1G1C104A116	CERAMIC CAPACITOR	
	C8009	F1J1A106A043	CERAMIC CAPACITOR	
	C801	F0CAF224A066	PLASTIC FILM CAPACITOR	
	C8010	F1J1A106A043	CERAMIC CAPACITOR	
	C8011	F1G1C104A116	CERAMIC CAPACITOR	
	C8012	F1G1C104A116	CERAMIC CAPACITOR	
	C8013	F1G1C104A116	CERAMIC CAPACITOR	
	C8014	F1G1C104A116	CERAMIC CAPACITOR	
	C8015	F1H0J1050012	CERAMIC CAPACITOR	
	C8016	F1H0J1050012	CERAMIC CAPACITOR	
	C8017	F1J1A106A043	CERAMIC CAPACITOR	
	C8018	F1G1C104A116	CERAMIC CAPACITOR	
	C8019	F1G1C104A116	CERAMIC CAPACITOR	
	C8020	F1G1C104A116	CERAMIC CAPACITOR	
	C8021	F1G1C104A116	CERAMIC CAPACITOR	
	C8022	F1H0J1050012	CERAMIC CAPACITOR	
	C8023	F1J1A106A043	CERAMIC CAPACITOR	
	C8024	F1J1A106A043	CERAMIC CAPACITOR	
	C8025	F1G1C104A116	CERAMIC CAPACITOR	
	C8026	F1G1C104A116	CERAMIC CAPACITOR	
	C8027	F1G1C104A116	CERAMIC CAPACITOR	
	C8028	F1G1C104A116	CERAMIC CAPACITOR	
	C8029	F1G1C104A116	CERAMIC CAPACITOR	
	C803	F0CAF224A066	PLASTIC FILM CAPACITOR	
	C8030	F1H0J1050012	CERAMIC CAPACITOR	
	C8031	F1H0J1050012	CERAMIC CAPACITOR	
	C8032	F1J1A106A043	CERAMIC CAPACITOR	
	C8033	F1G1C104A116	CERAMIC CAPACITOR	
	C8034	F1G1C104A116	CERAMIC CAPACITOR	
	C8035	F1J1A106A043	CERAMIC CAPACITOR	
	C8036	F1J1A106A043	CERAMIC CAPACITOR	
	C8037	F1G1C104A116	CERAMIC CAPACITOR	
	C8038	F1G1C104A116	CERAMIC CAPACITOR	
	C8039	F1G1C104A116	CERAMIC CAPACITOR	
	C804	F0CAF224A066	PLASTIC FILM CAPACITOR	
	C8040	F1G1C104A116	CERAMIC CAPACITOR	
	C8041	F1G1C104A116	CERAMIC CAPACITOR	
	C8042	ECGR10G680ER	CAPACITOR	
	C8043	F1G1C104A116	CERAMIC CAPACITOR	
	C8044	F1G1C104A116	CERAMIC CAPACITOR	
	C8045	F1G1C104A116	CERAMIC CAPACITOR	
	C8046	F1G1C104A116	CERAMIC CAPACITOR	
	C8047	F1G1C104A116	CERAMIC CAPACITOR	
	C8048	F1G1C104A116	CERAMIC CAPACITOR	
	C8049	F1G1C104A116	CERAMIC CAPACITOR	
	C805	F1A2E471A003	CERAMIC CAPACITOR	
	C8050	F1G1C104A116	CERAMIC CAPACITOR	
	C8051	F1G1C104A116	CERAMIC CAPACITOR	
	C8052	F1H0J1050012	CERAMIC CAPACITOR	
	C8053	F1G1E103A123	CERAMIC CAPACITOR	
	C8054	F1G1H120A731	CERAMIC CAPACITOR	
	C8055	F1G1HR50A577	CERAMIC CAPACITOR	
	C8056	F1G1C104A116	CERAMIC CAPACITOR	
	C8057	F1G1C104A116	CERAMIC CAPACITOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8058	F1J1A106A043	CERAMIC CAPACITOR	
	C8060	F1G1H102A730	CERAMIC CAPACITOR	
	C8067	F1G1E103A123	CERAMIC CAPACITOR	
	C8068	F1G1C104A116	CERAMIC CAPACITOR	
	C8069	F1G1H820A731	CERAMIC CAPACITOR	
	C8070	F1G1C104A116	CERAMIC CAPACITOR	
	C8071	F1G1C104A116	CERAMIC CAPACITOR	
	C8072	F1G1C104A116	CERAMIC CAPACITOR	
	C8073	F1G1C104A116	CERAMIC CAPACITOR	
	C8074	F1G1C104A116	CERAMIC CAPACITOR	
	C8075	F1J0G2260001	CERAMIC CAPACITOR	
	C8076	F1G1C104A116	CERAMIC CAPACITOR	
	C8077	F1G1C104A116	CERAMIC CAPACITOR	
	C8078	F1G1C104A116	CERAMIC CAPACITOR	
	C8079	F1G1C104A116	CERAMIC CAPACITOR	
	C808	F0C2H105A011	PLASTIC FILM CAPACITOR	
	C8080	F1G1C104A116	CERAMIC CAPACITOR	
	C811	ECJ1VB1H472K	C 4700PF, K, 50V	
	C812	ECJ1VB1H473K	CERAMIC CAPACITOR	
	C814	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C815	ECJ1VB1H222K	C 2200PF, K, 50V	
	C816	ECJ1VB1H102K	C 1000PF, K, 50V	
	C818	ECA1HM470B	E 47UF, 50V	
	C821	ECJ2FB1E105K	CERAMIC CAPACITOR	
	C822	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C823	F2A1E221A487	ELECTROLYTIC CAPACITOR	
	C824	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C825	ECJ2FB1E105K	CERAMIC CAPACITOR	
⚠	C827	ECKW3D471KBP	C 470PF, K, 2KV	
	C828	F2A2W1510001	ELECTROLYTIC CAPACITOR	
	C831	F2B1H102A007	ELECTROLYTIC CAPACITOR	
	C832	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C833	F2A1H4R7A122	ELECTROLYTIC CAPACITOR	
	C834	F2A1V1020043	ELECTROLYTIC CAPACITOR	
	C835	F2A1V1020043	ELECTROLYTIC CAPACITOR	
	C836	F1A2E101A002	CERAMIC CAPACITOR	
	C837	ECJ2FB1C474K	C 0.47UF, K, 16V	
	C838	F2A1H2R2A317	CAPACITOR	
	C840	F1J1E3340003	CERAMIC CAPACITOR	
	C841	F1A2E681A002	CERAMIC CAPACITOR	
	C842	F2A1V221A470	ELECTROLYTIC CAPACITOR	
	C843	F2A1V5600014	ELECTROLYTIC CAPACITOR	
	C845	ECQE6333JF	P 0.033UF, K, 630V	
	C846	F1H1H821A971	C 820PF, J, 50V	
	C847	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C848	F0C2K223A035	CAPACITOR	
	C849	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C852	F2A1E471A218	ELECTROLYTIC CAPACITOR	
	C853	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C8532	EEH1C470P	ELECTROLYTIC CAPACITOR	
	C8533	F1G1C104A116	CERAMIC CAPACITOR	
	C8535	F1G1C103A116	CERAMIC CHIP CAPACITOR	
	C8544	F1J0G2260001	CERAMIC CAPACITOR	
	C8555	F1G1C104A116	CERAMIC CAPACITOR	
	C856	F2A1V221A470	ELECTROLYTIC CAPACITOR	
	C857	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C858	F2A1C471A537	ELECTROLYTIC CAPACITOR	
	C8601	F1G1C104A116	CERAMIC CAPACITOR	
	C861	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C862	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C863	F1J1H474A757	CERAMIC CAPACITOR	
	C877	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C878	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C879	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C885	F2A1V221A470	ELECTROLYTIC CAPACITOR	
	C8857	F1G1H102A730	CERAMIC CAPACITOR	
	C8859	F1G1H102A730	CERAMIC CAPACITOR	
	C887	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C888	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C889	ECJ1VB1H104K	CERAMIC CAPACITOR	
	C890	ECJ3YB1E106M	CAPACITOR	
	C891	ECJ3YB1E106M	CAPACITOR	
	C894	ECJ1VB1H103K	C 0.01UF, K, 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		DIODES		
	D1002	EZJZOV120JA	VARISTOR	
	D1003	EZJZOV120JA	VARISTOR	
	D1004	EZAEG2A50AX	FILTER	
	D1005	EZAEG2A50AX	FILTER	
	D1006	EZAEG2A50AX	FILTER	
	D1007	EZAEG2A50AX	FILTER	
	D1107	MA704ATX	DIODE	
	D1112	MA2J72800L	DIODE	
	D2014	MA2J11100L	DIODE	
	D2017	MA2J11100L	DIODE	
	D2500	B3AGB0000057	DIODE	
	D2752	EZJZOV120JA	VARISTOR	
	D2760	MAZ81400ML	DIODE	
	D2779	MA22F2000L	DIODE	
	D3050	EZJP0V080GA	CHIP VARISTOR	
	D3340	EZJP0V080GA	CHIP VARISTOR	
	D4202	MA2J11100L	DIODE	
	D4512	EZAEG2A50AX	FILTER	
	D4513	B0BC5R6A0275	DIODE	
	D4517	EZAEG2A50AX	FILTER	
	D4518	EZAEG2A50AX	FILTER	
	D4520	EZAEG2A50AX	FILTER	
	D4525	MA2J11100L	DIODE	
	D4526	MA2J11100L	DIODE	
	D4541	MA2J11100L	DIODE	
	D4542	MA2J11100L	DIODE	
	D4576	B0HCMM000014	DIODE	
	D4577	B0HCMM000014	DIODE	
	D4583	B0HCMM000014	DIODE	
	D4611	B0BC5R6A0275	DIODE	
	D5407	MA2J11100L	DIODE	
	D5414	MA2J11100L	DIODE	
	D5441	MA3X78900L	DIODE	
	D5442	B0BC03900015	DIODE	
	D5473	MA2J11100L	DIODE	
	D5474	MA2J11100L	DIODE	
	D5480	MA2J11100L	DIODE	
	D5481	MAZ81800ML	DIODE	
	D5482	MA2J11100L	DIODE	
	D5483	MAZ81100ML	DIODE	
	D5484	MA2J11100L	DIODE	
	D5485	MAZ82400ML	DIODE	
	D5486	MA2J11100L	DIODE	
	D5487	MAZ82700ML	DIODE	
	D5488	MA2J11100L	DIODE	
	D5612	MAZ80470ML	DIODE	
	D5613	MA2J11100L	DIODE	
	D5618	MAZ80470ML	DIODE	
	D5619	MA2J11100L	DIODE	
	D5626	MAZ80470ML	DIODE	
	D5627	MA2J11100L	DIODE	
	D800	B0FBAT000008	DIODE	
⚠	D801	D4EAC6210002	VARISTOR	
⚠	D803	D4EAC6210002	VARISTOR	
	D805	B0HASR000014	DIODE	
	D807	B0JAME000058	DIODE	
	D808	B0JCNE000004	DIODE	
	D809	MAZ80680ML	DIODE	
	D811	MAZ80390HL	DIODE	
	D812	B0JCPG000005	DIODE	
	D813	MAZ81800ML	DIODE	
	D817	B0HAMM000122	DIODE	
	D818	B0JBLS000026	DIODE	
	D819	B0JBLS000026	DIODE	
	D824	B0JCME000037	DIODE	
	D832	B0JCME000037	DIODE	
	D838	B0JAME000091	DIODE	
	D845	AU02A	DIODE	
	D847	B0JCME000037	DIODE	
	D848	MA2J72800L	DIODE	
	D849	MA2J72800L	DIODE	
	D851	B0BA02800001	VOLTAGE REGULATOR DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D852	B0BA02800001	VOLTAGE REGULATOR DIODE	
	D853	B0JCNG000003	DIODE	
	D855	B0JAME000058	DIODE	
	D860	B0JANE000006	DIODE	
	D862	B0JCPG000005	DIODE	
	D863	B0JCME000037	DIODE	
	D864	MA2J11100L	DIODE	
	D889	B0JCPE000028	DIODE	
	D890	B0JCME000037	DIODE	
	D892	B0JCPE000028	DIODE	
		INTEGRATED CIRCUITS		
	IC1100	MN103SH9FPA1	IC	
	IC1101	TVR4GAS817	ROM IC (C3EBFC000042)	
	IC2008	C0DBGYY00578	IC	
	IC2301	C1AB00002875	IC	
	IC2750	C1ZBZ0003577	IC	
	IC2902	C0DBGYY00281	IC	
	IC3001	C1AB00002855	IC	
	IC4510	C1AB00003045	IC	
	IC4511	C0DBGYY00578	IC	
	IC4512	C0CBCAG00039	IC	
	IC4513	C0DBGYY00618	IC	
	IC5405	C0DBEYG00002	IC REGULATOR	
	IC5409	C0DBEHE00005	IC, POWER SUPPLY	
	IC5441	C0DBAJB00004	IC	
	IC5480	C1ZBZ0003986	IC	
	IC5600	C0DBAYY00480	IC	
	IC5601	C0DBAYY00480	IC	
	IC800	C0DBBZG00004	IC	
	IC8001	MN2WS0047A	IC	
	IC8002	C3ABRY000038	IC	
	IC8003	C3ABRY000038	IC	
	IC8004	C0ZBZ0001567	IC	
	IC801	C5HAZYY00006	IC	
	IC805	C0DAEMZ00001	IC	
	IC851	C0DAAYY00051	IC	
	IC852	C0DAAZG00014	IC, POWER SUPPLY	
	IC855	C5HACYY00006	IC	
	IC8554	TVR4G69-AD	ROM VERSION IC	
	IC8601	TVR4GAS820	ROM IC (C3EBGC000056)	
		COILS		
	L1100	J0JYC0000068	COIL	
	L2001	GLC150KA0038	COIL	
	L2005	ERJ6GEY0R00	M 00HM, J, 1/10W	
	L2006	ERJ6GEY0R00	M 00HM, J, 1/10W	
	L2010	GLC220MA0291	COIL	
	L2012	GLC220MA0291	COIL	
	L2014	GLC220MA0291	COIL	
	L2016	GLC220MA0291	COIL	
	L2018	J0JHC0000042	COIL	
	L2032	J0JYC0000068	COIL	
	L2750	J0JYC0000065	COIL	
	L2751	J0JYC0000065	COIL	
	L2752	J0JYC0000065	COIL	
	L2754	J0JYC0000065	COIL	
	L2755	J0JYC0000065	COIL	
	L2756	J0JYC0000065	COIL	
	L2901	J0JCC0000278	COIL	
	L2902	J0JCC0000269	COIL	
	L2904	J0JCC0000269	COIL	
	L2907	J0JCC0000063	BEAD CORE	
	L2908	J0JCC0000063	BEAD CORE	
	L3002	J0JCC0000287	COIL	
	L3003	J0JCC0000287	COIL	
	L3010	J0JCC0000287	COIL	
	L3011	J0JCC0000287	COIL	
	L3014	J0JCC0000287	COIL	
	L3015	J0JCC0000287	COIL	
	L3017	J0JCC0000287	COIL	
	L3019	J0JCC0000287	COIL	
	L3026	J0JCC0000287	COIL	
	L3027	J0JCC0000287	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L3028	J0JCC0000287	COIL	
	L3029	J0JCC0000287	COIL	
	L3030	J0JCC0000287	COIL	
	L3034	J0JCC0000364	BEAD COIL	
	L3035	J0JCC0000364	BEAD COIL	
	L4201	J0JYC0000068	COIL	
	L4208	G1C100MA0072	COIL	
	L4210	J0JHC0000045	COIL	
	L4502	J0JYC0000068	COIL	
	L4503	J0JYC0000068	COIL	
	L4504	J0JYC0000068	COIL	
	L4505	J0JYC0000068	COIL	
	L4506	J0JYC0000068	COIL	
	L4507	J0JYC0000068	COIL	
	L4511	J0JYC0000068	COIL	
	L4512	J0JCC0000059	COIL	
	L4513	J0JCC0000059	COIL	
	L4514	J0JYC0000068	COIL	
	L4515	J0JYC0000068	COIL	
	L4516	J0JYC0000068	COIL	
	L4517	J0JYC0000068	COIL	
	L4518	J0JYC0000068	COIL	
	L4519	J0JYC0000068	COIL	
	L5430	J0JHC0000045	COIL	
	L5443	G1C470MA0077	COIL	
	L5444	G1C100MA0072	COIL	
	L5480	J0JYC0000068	COIL	
	L5481	J0JYC0000068	COIL	
	L5600	G1C2R2Z00007	COIL	
	L5601	G1C3R3Z00004	COIL	
	L5602	G1C4R7Z00014	COIL	
	L5604	G1C100MA0203	COIL	
	L5605	J0JHC0000045	COIL	
	L5608	G1C100MA0077	COIL	
	L8001	J0JHC0000045	COIL	
	L8002	J0JHC0000045	COIL	
	L8003	J0JHC0000045	COIL	
	L8004	J0JHC0000045	COIL	
	L8005	J0JHC0000045	COIL	
	L8007	J0JHC0000045	COIL	
	L8008	J0JHC0000045	COIL	
	L8009	J0JHC0000045	COIL	
	L801	EXCELDR35V	CORE	
	L8010	J0JHC0000045	COIL	
	L839	G0C101K00041	COIL	
	L840	EXCELDR35V	CORE	
	L843	EXCELDR35V	CORE	
	L844	G0C101K00041	COIL	
	L8501	J0JHC0000045	COIL	
	L8551	J0JHC0000075	BEAD COIL	
	L868	EXCELDR35V	CORE	
	L872	G0A470ZA0037	COIL	
	L874	EXCELDR35V	CORE	
	L880	J0JKA0000024	EMI FILTER	
	L881	J0JKA0000024	EMI FILTER	
		TRANSISTOR		
	Q0900	B1CBHD000002	TRANSISTOR	
	Q0901	B1CBHD000002	TRANSISTOR	
	Q2001	B1ABCF000231	TRANSISTOR	
	Q2022	B1ADCE000022	TRANSISTOR	
	Q2063	2SD0601ASL	TRANSISTOR	
	Q2064	2SD0601ASL	TRANSISTOR	
	Q2065	2SB0709ASL	TRANSISTOR	
	Q2500	B1ABCF000231	TRANSISTOR	
	Q2501	B1ABCF000231	TRANSISTOR	
	Q2504	B1ABCF000231	TRANSISTOR	
	Q3000	B1ABCF000231	TRANSISTOR	
	Q3001	B1ABCF000231	TRANSISTOR	
	Q4201	2SD0601A0L	TRANSISTOR	
	Q4202	2SB709ATX	TRANSISTOR	
	Q4203	2SD0601A0L	TRANSISTOR	
	Q4204	2SC39380QL	TRANSISTOR	
	Q4205	2SD0601A0L	TRANSISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	Q4206	2SC39380QL	TRANSISTOR	
	Q4500	B1ABCF000231	TRANSISTOR	
	Q4501	B1ABCF000231	TRANSISTOR	
	Q4514	2SB0709ASL	TRANSISTOR	
	Q4515	2SB0709ASL	TRANSISTOR	
	Q4516	2SB0709ASL	TRANSISTOR	
	Q4517	2SB0709ASL	TRANSISTOR	
	Q4533	B1ABCF000231	TRANSISTOR	
	Q4534	B1ABCF000231	TRANSISTOR	
	Q5407	2SC584500L	TRANSISTOR	
	Q5408	2SC584500L	TRANSISTOR	
	Q5412	B1CHRE000005	TRANSISTOR	
	Q5417	B1CHRE000005	TRANSISTOR	
	Q5421	2SC584500L	TRANSISTOR	
	Q5431	2SC584500L	TRANSISTOR	
	Q5441	B1CFNG000001	TRANSISTOR	
	Q5453	2SD0601A0L	TRANSISTOR	
	Q5461	B1ADCE000022	TRANSISTOR	
	Q5600	B1MBDDA00003	TRANSISTOR	
	Q5601	B1MBDDA00003	TRANSISTOR	
	Q5602	B1MBDDA00003	TRANSISTOR	
	Q804	2SD0601A0L	TRANSISTOR	
	Q805	2SD0601A0L	TRANSISTOR	
	Q807	B1BACG000035	TRANSISTOR	
	Q808	B1BACD000014	TRANSISTOR	
	Q809	2SD0601A0L	TRANSISTOR	
	Q810	2SD0601A0L	TRANSISTOR	
	Q814	B1DEGR000060	TRANSISTOR	
	Q838	2SB14340SA	TRANSISTOR	
	Q839	B1DEGR000060	TRANSISTOR	
	Q843	B1DHKE000001	TRANSISTOR	
	Q846	2SD0601A0L	TRANSISTOR	
	Q847	2SD0601A0L	TRANSISTOR	
	Q848	2SD0601A0L	TRANSISTOR	
	Q849	2SD0601A0L	TRANSISTOR	
	Q881	2SD0601A0L	TRANSISTOR	
	Q886	2SD0601A0L	TRANSISTOR	
		RESISTORS		
	R0180	ERJ2GEJ101X	RESISTOR	
	R0900	ERJ2GEJ680X	RESISTOR	
	R0901	EXB28V680JX	RESISTOR	
	R0902	ERJ2GEJ103X	FIXED RESISTOR	
	R0905	ERJ2GEJ103X	FIXED RESISTOR	
	R0906	ERJ2GEJ103X	FIXED RESISTOR	
	R0907	ERJ2GEJ103X	FIXED RESISTOR	
	R0909	ERJ2GEJ220X	FIXED RESISTOR	
	R0910	ERJ2GEJ220X	FIXED RESISTOR	
	R0911	ERJ2GEJ220X	FIXED RESISTOR	
	R0912	ERJ2GEJ220X	FIXED RESISTOR	
	R0913	ERJ2GEJ220X	FIXED RESISTOR	
	R0914	ERJ2GEJ220X	FIXED RESISTOR	
	R0915	ERJ2GEJ472X	RESISTOR	
	R0916	ERJ2GEJ472X	RESISTOR	
	R0917	ERJ2GEJ220X	FIXED RESISTOR	
	R0918	ERJ2GEJ220X	FIXED RESISTOR	
	R0919	ERJ2GEJ220X	FIXED RESISTOR	
	R0920	ERJ2GEJ220X	FIXED RESISTOR	
	R0921	ERJ2GEJ220X	FIXED RESISTOR	
	R0922	ERJ2GEJ220X	FIXED RESISTOR	
	R0923	ERJ2GEJ682X	RESISTOR	
	R0924	ERJ2GEJ682X	RESISTOR	
	R0925	ERJ2GEJ220X	FIXED RESISTOR	
	R0926	ERJ2GEJ220X	FIXED RESISTOR	
	R0929	ERJ2GEJ220X	FIXED RESISTOR	
	R0930	ERJ2GEJ220X	FIXED RESISTOR	
	R0933	ERJ2GE0R00X	FIXED RESISTOR	
	R0934	ERJ2GE0R00X	FIXED RESISTOR	
	R0945	ERJ2GEJ220X	FIXED RESISTOR	
	R0946	ERJ2GEJ220X	FIXED RESISTOR	
	R0947	ERJ2GEJ680X	RESISTOR	
	R0948	ERJ2GEJ680X	RESISTOR	
	R0949	ERJ2GEJ680X	RESISTOR	
	R0950	ERJ2GEJ680X	RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R0951	ERJ2GEJ680X	RESISTOR	
	R0952	ERJ2GEJ680X	RESISTOR	
	R0953	ERJ2GEJ680X	RESISTOR	
	R0954	ERJ2GEJ680X	RESISTOR	
	R0955	ERJ2GEJ472X	RESISTOR	
	R0956	ERJ2GEJ472X	RESISTOR	
	R0957	ERJ2GEJ472X	RESISTOR	
	R0958	ERJ2GEJ472X	RESISTOR	
	R0959	ERJ2GEJ472X	RESISTOR	
	R0960	ERJ2GEJ472X	RESISTOR	
	R0961	ERJ2GEJ472X	RESISTOR	
	R0962	ERJ2GEJ472X	RESISTOR	
	R1100	ERJ2GEJ101X	RESISTOR	
	R1101	ERJ2GEJ101X	RESISTOR	
	R1102	ERJ2GEJ101X	RESISTOR	
	R1103	ERJ2GEJ330X	RESISTOR	
	R1105	ERJ2GEJ101X	RESISTOR	
	R1106	ERJ2GEJ101X	RESISTOR	
	R1107	ERJ2GEJ101X	RESISTOR	
	R1108	ERJ2GEJ101X	RESISTOR	
	R1109	ERJ2GEJ101X	RESISTOR	
	R1146	ERJ2GEJ102X	FIXED RESISTOR	
	R1153	ERJ2GEJ471X	RESISTOR	
	R1163	ERJ2GEJ105X	FIXED RESISTOR	
	R1173	ERJ2GEJ331X	RESISTOR	
	R1179	ERJ2GE0R00X	FIXED RESISTOR	
	R1181	ERJ2GE0R00X	FIXED RESISTOR	
	R1182	ERJ2GEJ273X	RESISTOR	
	R1197	ERJ2GE0R00X	FIXED RESISTOR	
	R1200	ERJ2GE0R00X	FIXED RESISTOR	
	R1203	ERJ2GEJ473X	FIXED RESISTOR	
	R1209	ERJ2GEJ472X	RESISTOR	
	R1221	D1BB7151A055	CHIP RESISTOR	
	R1224	ERJ2GEJ103X	FIXED RESISTOR	
	R1225	ERJ2GEJ103X	FIXED RESISTOR	
	R1236	ERJ2GEJ473X	FIXED RESISTOR	
	R1237	ERJ2GEJ102X	FIXED RESISTOR	
	R1243	ERJ2GEJ473X	FIXED RESISTOR	
	R1255	ERJ2GEJ102X	FIXED RESISTOR	
	R1400	ERJ2GEJ103X	FIXED RESISTOR	
	R1401	ERJ2GEJ104X	FIXED RESISTOR	
	R1402	ERJ2GEJ683X	RESISTOR	
	R1403	ERJ2GEJ333X	RESISTOR	
	R1404	ERJ2GEJ683X	RESISTOR	
	R1405	ERJ2GEJ223X	RESISTOR	
	R1406	ERJ2GEJ683X	RESISTOR	
	R1407	ERJ2GEJ473X	FIXED RESISTOR	
	R1409	ERJ2GEJ473X	FIXED RESISTOR	
	R1410	ERJ2GEJ103X	FIXED RESISTOR	
	R1411	ERJ2GEJ104X	FIXED RESISTOR	
	R1422	ERJ2GEJ182X	RESISTOR	
	R2002	ERJ2GEJ102X	FIXED RESISTOR	
	R2003	ERJ2GEJ105X	FIXED RESISTOR	
	R2006	ERJ2GEJ471X	RESISTOR	
	R2007	ERJ2GEJ221X	RESISTOR	
	R2008	ERJ2GEJ471X	RESISTOR	
	R2015	ERJ2GEJ103X	FIXED RESISTOR	
	R2016	ERJ2GEJ103X	FIXED RESISTOR	
	R2017	ERJ2GEJ103X	FIXED RESISTOR	
	R2018	ERJ2GEJ103X	FIXED RESISTOR	
	R2019	D1BB2002A055	CHIP RESISTOR	
	R2020	D1BB2001A055	CHIP RESISTOR	
	R2023	ERJ2GEJ103X	FIXED RESISTOR	
	R2032	ERJ2GE0R00X	FIXED RESISTOR	
	R2047	D1BB2802A055	CHIP RESISTOR	
	R2048	D1BB2802A055	CHIP RESISTOR	
	R2050	D1BB2802A055	CHIP RESISTOR	
	R2051	D1BB2802A055	CHIP RESISTOR	
	R2063	ERJ2GE0R00X	FIXED RESISTOR	
	R2064	ERJ2GE0R00X	FIXED RESISTOR	
	R2092	ERJ2GEJ103X	FIXED RESISTOR	
	R2093	ERJ2GEJ103X	FIXED RESISTOR	
	R2110	ERJ2GEJ101X	RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2111	ERJ2GEJ101X	RESISTOR	
	R2114	ERJ2GEJ222X	RESISTOR	
	R2115	ERJ2GEJ222X	RESISTOR	
	R2118	ERJ2GEJ471X	RESISTOR	
	R2119	ERJ2GEJ105X	FIXED RESISTOR	
	R2120	ERJ2GEJ473X	FIXED RESISTOR	
	R2121	ERJ8GEYJ3R3	RESISTOR	
	R2122	ERJ2GEJ102X	FIXED RESISTOR	
	R2123	ERJ8GEYJ3R3	RESISTOR	
	R2124	ERJ2GEJ103X	FIXED RESISTOR	
	R2125	ERJ8GEYJ3R3	RESISTOR	
	R2127	ERJ8GEYJ3R3	RESISTOR	
	R2129	ERJ2GEJ100X	RESISTOR	
	R2132	ERJ2GEJ471X	RESISTOR	
	R2137	ERJ2GEJ100X	RESISTOR	
	R2141	ERJ2GEJ102X	FIXED RESISTOR	
	R2142	ERJ2GEJ222X	RESISTOR	
	R2172	ERJ2GEJ680X	RESISTOR	
	R2190	ERJ2GEJ472X	RESISTOR	
	R2316	EXB28V220JX	RESISTOR	
	R2325	ERJ2GE0R00X	FIXED RESISTOR	
	R2500	ERJ2RKF3000X	RESISTOR	
	R2502	ERJ2GEJ473X	FIXED RESISTOR	
	R2504	ERJ2GEJ223X	RESISTOR	
	R2507	ERJ2GEJ473X	FIXED RESISTOR	
	R2508	ERJ2GEJ103X	FIXED RESISTOR	
	R2509	ERJ2RKF1101X	CHIP RESISTOR	
	R2512	ERJ2GEJ470X	RESISTOR	
	R2514	ERJ2RKF1802X	RESISTOR	
	R2515	ERJ2RKF4702X	RESISTOR	
	R2516	ERJ2GEJ473X	FIXED RESISTOR	
	R2517	ERJ2GEJ104X	FIXED RESISTOR	
	R2518	ERJ2GEJ103X	FIXED RESISTOR	
	R2600	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R2601	D1BD1741A044	CHIP RESISTOR	
	R2602	D1BD7151A044	CHIP RESISTOR	
	R2603	D1BD6651A044	CHIP RESISTOR	
	R2604	D1BD1432A044	CHIP RESISTOR	
	R2751	D0GDR00Z0002	CHIP RESISTOR	
	R2752	D0GDR00Z0002	CHIP RESISTOR	
	R2755	ERJ2GEJ473X	FIXED RESISTOR	
	R2756	ERJ2GEJ101X	RESISTOR	
	R2757	ERJ2GEJ101X	RESISTOR	
	R2758	ERJ2GEJ101X	RESISTOR	
	R2759	ERJ2GEJ101X	RESISTOR	
	R2760	ERJ2GEJ101X	RESISTOR	
	R2761	ERJ2GEJ101X	RESISTOR	
	R2762	ERJ2GEJ222X	RESISTOR	
	R2763	ERJ2GEJ473X	FIXED RESISTOR	
	R2764	ERJ2GEJ473X	FIXED RESISTOR	
	R2765	D0GDR00Z0002	CHIP RESISTOR	
	R2774	ERJ2GEJ473X	FIXED RESISTOR	
	R2901	D0GB103JA041	CHIP RESISTOR	
	R2903	D0GBR00Z0002	CHIP RESISTOR	
	R2905	ERJ2GE0R00X	FIXED RESISTOR	
	R2909	ERJ2GE0R00X	FIXED RESISTOR	
	R2915	ERJ2GEJ221X	RESISTOR	
	R2918	ERJ2GEJ101X	RESISTOR	
	R2926	D0GB103JA041	CHIP RESISTOR	
	R2927	ERJ2GE0R00X	FIXED RESISTOR	
	R2930	ERJ2GEJ153X	RESISTOR	
	R2931	D0GBR00Z0002	CHIP RESISTOR	
	R2940	ERJ2GE0R00X	FIXED RESISTOR	
	R2943	ERJ2GE0R00X	FIXED RESISTOR	
	R2944	ERJ2GE0R00X	FIXED RESISTOR	
	R3000	ERJ2GEJ473X	FIXED RESISTOR	
	R3001	ERJ2GEJ473X	FIXED RESISTOR	
	R3004	ERJ2GEJ223X	RESISTOR	
	R3005	ERJ2GEJ223X	RESISTOR	
	R3019	ERJ2GEJ101X	RESISTOR	
	R3021	ERJ2GEJ101X	RESISTOR	
	R3024	ERJ2GEJ104X	FIXED RESISTOR	
	R3025	ERJ2GEJ104X	FIXED RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R3031	ERJ2GEJ103X	FIXED RESISTOR	
	R3033	ERJ2GEJ221X	RESISTOR	
	R3034	ERJ2GEJ221X	RESISTOR	
	R3043	ERJ2GEJ221X	RESISTOR	
	R3045	ERJ2GEJ221X	RESISTOR	
	R3047	ERJ2GEJ221X	RESISTOR	
	R3048	ERJ2GEJ221X	RESISTOR	
	R3049	ERJ2GEJ221X	RESISTOR	
	R3050	ERJ2GEJ221X	RESISTOR	
	R3075	D1BD75R0A044	RESISTOR	
	R3076	D1BD75R0A044	RESISTOR	
	R3078	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3084	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3085	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3086	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3094	ERJ2GE0R00X	FIXED RESISTOR	
	R3097	D1BD75R0A044	RESISTOR	
	R3101	ERJ2GEJ472X	RESISTOR	
	R3103	ERJ2GEJ472X	RESISTOR	
	R3112	ERJ2GE0R00X	FIXED RESISTOR	
	R3113	ERJ2GE0R00X	FIXED RESISTOR	
	R3118	ERJ2GEJ221X	RESISTOR	
	R3119	ERJ2GEJ221X	RESISTOR	
	R3120	ERJ2GEJ331X	RESISTOR	
	R3121	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3123	ERJ2GEJ221X	RESISTOR	
	R3124	ERJ2GEJ472X	RESISTOR	
	R3125	ERJ2GEJ221X	RESISTOR	
	R3128	ERJ2GEJ221X	RESISTOR	
	R3132	ERJ2GEJ820X	RESISTOR	
	R3133	ERJ2GEJ820X	RESISTOR	
	R3134	ERJ2GEJ820X	RESISTOR	
	R3138	ERJ2GEJ820X	RESISTOR	
	R3139	ERJ2GEJ820X	RESISTOR	
	R3140	ERJ2GEJ820X	RESISTOR	
	R3146	ERJ2GEJ331X	RESISTOR	
	R3151	ERJ2GEJ220X	FIXED RESISTOR	
	R3152	ERJ2GEJ220X	FIXED RESISTOR	
	R3167	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3169	ERJ2GEJ104X	FIXED RESISTOR	
	R3182	ERJ2GE0R00X	FIXED RESISTOR	
	R3186	D1BD75R0A044	RESISTOR	
	R3187	D1BD75R0A044	RESISTOR	
	R3188	D1BD75R0A044	RESISTOR	
	R3189	ERJ2GEJ680X	RESISTOR	
	R3190	ERJ2GEJ680X	RESISTOR	
	R3191	ERJ2GEJ680X	RESISTOR	
	R3218	ERJ2GE0R00X	FIXED RESISTOR	
	R3222	ERJ2GE0R00X	FIXED RESISTOR	
	R3223	ERJ2GEJ680X	RESISTOR	
	R3224	ERJ2GE0R00X	FIXED RESISTOR	
	R3225	ERJ2GEJ680X	RESISTOR	
	R3226	ERJ2GEJ472X	RESISTOR	
	R3227	ERJ2GEJ472X	RESISTOR	
	R3230	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3231	ERJ2GE0R00X	FIXED RESISTOR	
	R3232	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3233	ERJ2GE0R00X	FIXED RESISTOR	
	R3234	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3235	ERJ2GE0R00X	FIXED RESISTOR	
	R3236	ERJ2GEJ680X	RESISTOR	
	R3237	ERJ2GEJ680X	RESISTOR	
	R3240	ERJ2GEJ221X	RESISTOR	
	R3287	ERJ2GEJ473X	FIXED RESISTOR	
	R3288	ERJ2GEJ473X	FIXED RESISTOR	
	R3289	ERJ2GEJ220X	FIXED RESISTOR	
	R3308	ERJ2GEJ223X	RESISTOR	
	R3309	ERJ2GEJ223X	RESISTOR	
	R4218	ERJ2GE0R00X	FIXED RESISTOR	
	R4277	ERJ2GEJ103X	FIXED RESISTOR	
	R4284	ERJ2GEJ103X	FIXED RESISTOR	
	R4285	ERJ2GEJ103X	FIXED RESISTOR	
	R4286	ERJ2GEJ103X	FIXED RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4305	ERJ2GEJ473X	FIXED RESISTOR	
	R4306	ERJ2GEJ473X	FIXED RESISTOR	
	R4309	ERJ2GEJ103X	FIXED RESISTOR	
	R4310	ERJ2GEJ102X	FIXED RESISTOR	
	R4311	ERJ2GEJ473X	FIXED RESISTOR	
	R4312	ERJ2GEJ302X	RESISTOR	
	R4315	ERJ2GEJ102X	FIXED RESISTOR	
	R4316	ERJ2GEJ102X	FIXED RESISTOR	
	R4317	ERJ2GEJ103X	FIXED RESISTOR	
	R4318	ERJ2GEJ103X	FIXED RESISTOR	
	R4319	ERJ2GEJ473X	FIXED RESISTOR	
	R4320	ERJ2GEJ103X	FIXED RESISTOR	
	R4321	ERJ2GEJ102X	FIXED RESISTOR	
	R4322	ERJ2GEJ103X	FIXED RESISTOR	
	R4323	ERJ2GEJ473X	FIXED RESISTOR	
	R4324	ERJ2GEJ473X	FIXED RESISTOR	
	R4325	ERJ3EKF5111	M5.11KOHM, F, 1/16W	
	R4326	D1BD4871A044	CHIP RESISTOR	
	R4327	ERJ2GEJ302X	RESISTOR	
	R4328	ERJ2GEJ102X	FIXED RESISTOR	
	R4329	ERJ2RKF3901X	RESISTOR	
	R4330	ERJ2GEJ100X	RESISTOR	
	R4360	ERJ2GE0R00X	FIXED RESISTOR	
	R4363	ERJ2GEJ103X	FIXED RESISTOR	
	R4368	ERJ2GEJ103X	FIXED RESISTOR	
	R4500	ERJ2GEJ103X	FIXED RESISTOR	
	R4501	ERJ2GEJ103X	FIXED RESISTOR	
	R4502	ERJ2GEJ330X	RESISTOR	
	R4503	ERJ2GEJ330X	RESISTOR	
	R4504	ERJ2GEJ102X	FIXED RESISTOR	
	R4505	ERJ2GEJ102X	FIXED RESISTOR	
	R4506	ERJ2GEJ473X	FIXED RESISTOR	
	R4507	ERJ2GEJ473X	FIXED RESISTOR	
	R4524	ERJ2GEJ103X	FIXED RESISTOR	
	R4525	ERJ2GEJ103X	FIXED RESISTOR	
	R4528	ERJ2GEJ103X	FIXED RESISTOR	
	R4529	ERJ2GEJ103X	FIXED RESISTOR	
	R4530	ERJ2GEJ103X	FIXED RESISTOR	
	R4531	ERJ2GEJ103X	FIXED RESISTOR	
	R4532	ERJ2GEJ473X	FIXED RESISTOR	
	R4533	ERJ2GEJ473X	FIXED RESISTOR	
	R4534	ERJ2GEJ473X	FIXED RESISTOR	
	R4538	ERJ2GEJ473X	FIXED RESISTOR	
	R4539	ERJ2GE0R00X	FIXED RESISTOR	
	R4540	ERJ2GEJ473X	FIXED RESISTOR	
	R4541	ERJ2GE0R00X	FIXED RESISTOR	
	R4542	ERJ2GE0R00X	FIXED RESISTOR	
	R4543	ERJ2GE0R00X	FIXED RESISTOR	
	R4546	ERJ2GEJ473X	FIXED RESISTOR	
	R4552	ERJ2GEJ220X	FIXED RESISTOR	
	R4587	D1BB60400001	CHIP RESISTOR	
	R4588	D1BB8060A055	CHIP RESISTOR	
	R4589	D1BB8060A055	CHIP RESISTOR	
	R4592	D1BB8060A055	CHIP RESISTOR	
	R4593	D1BB2201A055	CHIP RESISTOR	
	R4596	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R4597	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R4598	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R4601	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R4604	ERJ2GE0R00X	FIXED RESISTOR	
	R4607	ERJ2GE0R00X	FIXED RESISTOR	
	R4609	ERJ2GEJ122X	RESISTOR	
	R4613	ERJ2GE0R00X	FIXED RESISTOR	
	R4614	ERJ2GE0R00X	FIXED RESISTOR	
	R4615	ERJ2GE0R00X	FIXED RESISTOR	
	R4616	ERJ2GE0R00X	FIXED RESISTOR	
	R4620	ERJ2GEJ473X	FIXED RESISTOR	
	R4623	ERJ2GE0R00X	FIXED RESISTOR	
	R4624	ERJ2GEJ103X	FIXED RESISTOR	
	R4626	D1BB2200A055	CHIP RESISTOR	
	R4627	D1BB2200A055	CHIP RESISTOR	
	R4631	D1BB4990A055	CHIP RESISTOR	
	R4634	D1BB2200A055	CHIP RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4635	EXB28V680JX	RESISTOR	
	R4636	ERJ2GEJ680X	RESISTOR	
	R4637	ERJ2GEJ473X	FIXED RESISTOR	
	R4638	ERJ2GEJ680X	RESISTOR	
	R4639	EXB28V680JX	RESISTOR	
	R4640	EXB28V680JX	RESISTOR	
	R4641	ERJ2GEJ473X	FIXED RESISTOR	
	R4642	ERJ2GEJ473X	FIXED RESISTOR	
	R4645	ERJ2GEJ680X	RESISTOR	
	R4646	ERJ2GEJ680X	RESISTOR	
	R4648	EXB28V330JX	RESISTOR	
	R4649	EXB28V680JX	RESISTOR	
	R4650	ERJ2GEJ680X	RESISTOR	
	R4651	ERJ2GEJ680X	RESISTOR	
	R4652	ERJ2GEJ473X	FIXED RESISTOR	
	R4656	ERJ2GEJ222X	RESISTOR	
	R4665	ERJ2GEJ473X	FIXED RESISTOR	
	R4666	ERJ2GEJ473X	FIXED RESISTOR	
	R4672	ERJ2GEJ473X	FIXED RESISTOR	
	R4674	ERJ2GEJ103X	FIXED RESISTOR	
	R4677	ERJ2GEJ103X	FIXED RESISTOR	
	R4678	EXB28V680JX	RESISTOR	
	R4679	EXB28V680JX	RESISTOR	
	R4698	ERJ2GEJ104X	FIXED RESISTOR	
	R4699	ERJ2GEJ104X	FIXED RESISTOR	
	R4700	ERJ2GEJ473X	FIXED RESISTOR	
	R4707	ERJ2GEJ473X	FIXED RESISTOR	
	R4736	ERJ2GEJ473X	FIXED RESISTOR	
	R4742	ERJ2GE0R00X	FIXED RESISTOR	
	R4743	ERJ2GE0R00X	FIXED RESISTOR	
	R4799	EXB28V680JX	RESISTOR	
	R5407	ERJ2GEJ103X	FIXED RESISTOR	
	R5408	ERJ2GEJ473X	FIXED RESISTOR	
	R5409	ERJ2GEJ103X	FIXED RESISTOR	
	R5410	ERJ2GEJ103X	FIXED RESISTOR	
	R5411	ERJ2RKF5361X	RESISTOR	
	R5412	ERJ2RKF1501X	CHIP RESISTOR	
	R5414	ERJ2RKF6342X	RESISTOR	
	R5415	ERJ2RKF1002X	CHIP RESISTOR	
	R5416	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R5417	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R5421	ERJ2GEJ103X	FIXED RESISTOR	
	R5422	ERJ2GEJ473X	FIXED RESISTOR	
	R5423	ERJ2GEJ563X	RESISTOR	
	R5424	ERJ2GEJ223X	RESISTOR	
	R5425	ERJ2GEJ103X	FIXED RESISTOR	
	R5431	ERJ2GEJ103X	FIXED RESISTOR	
	R5432	ERJ2GEJ473X	FIXED RESISTOR	
	R5433	ERJ2GEJ333X	RESISTOR	
	R5434	ERJ2GEJ223X	RESISTOR	
	R5435	ERJ12YJ471U	M 4700HM, J, 1/2W	
	R5441	ERJ6ENF8202	M 82KOHM, 1/10W	
	R5442	D1BD1602A044	CHIP RESISTOR	
	R5443	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R5449	ERJ2GE0R00X	FIXED RESISTOR	
	R5461	ERJ2GEJ473X	FIXED RESISTOR	
	R5462	ERJ2GEJ274X	RESISTOR	
	R5463	ERJ2GEJ105X	FIXED RESISTOR	
	R5469	ERJ2GEJ203X	CHIP RESISTOR	
	R5470	ERJ2GEJ222X	RESISTOR	
	R5474	ERJ2GE0R00X	FIXED RESISTOR	
	R5475	ERJ2GEJ103X	FIXED RESISTOR	
	R5476	ERJ2GEJ153X	RESISTOR	
	R5479	ERJ2GE0R00X	FIXED RESISTOR	
	R5480	ERJ2GEJ473X	FIXED RESISTOR	
	R5481	ERJ2GEJ101X	RESISTOR	
	R5482	ERJ2GEJ470X	RESISTOR	
	R5483	ERJ2GEJ563X	RESISTOR	
	R5484	ERJ2GEJ203X	CHIP RESISTOR	
	R5485	ERJ2GEJ101X	RESISTOR	
	R5486	ERJ2GEJ103X	FIXED RESISTOR	
	R5487	ERJ2GEJ473X	FIXED RESISTOR	
	R5488	ERJ2GEJ183X	FIXED RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5489	ERJ2GEJ333X	RESISTOR	
	R5490	ERJ2GEJ472X	RESISTOR	
	R5491	ERJ6GEYJ331	M 3300HM, J, 1/10W	
	R5492	ERJ2GEJ680X	RESISTOR	
	R5493	ERJ2GEJ223X	RESISTOR	
	R5494	ERJ2GEJ683X	RESISTOR	
	R5495	ERJ2GEJ103X	FIXED RESISTOR	
	R5496	ERJ2GEJ473X	FIXED RESISTOR	
	R5497	ERJ2GEJ473X	FIXED RESISTOR	
	R5498	ERJ2GE0R00X	FIXED RESISTOR	
	R5499	ERJ2GEJ102X	FIXED RESISTOR	
	R5603	D1BB2402A055	CHIP RESISTOR	
	R5604	D1BB4752A055	CHIP RESISTOR	
	R5605	D1BB2702A055	CHIP RESISTOR	
	R5610	ERJ2GEJ5R6X	FIXED RESISTOR	
	R5620	ERJ2GEJ680X	RESISTOR	
	R5629	D1BB2702A055	CHIP RESISTOR	
	R5630	D1BB2402A055	CHIP RESISTOR	
	R5631	D1BB5102A055	CHIP RESISTOR	
	R5632	D1BB3002A055	CHIP RESISTOR	
	R5633	D1BB1602A055	CHIP RESISTOR	
	R5634	D1BB2002A055	CHIP RESISTOR	
	R5635	ERJ2GEJ5R6X	FIXED RESISTOR	
	R800	D0XB106J0003	RESISTOR	
	R8001	ERJ2GEJ221X	RESISTOR	
	R8002	ERJ2GEJ560X	RESISTOR	
	R8004	D1BB2402A055	CHIP RESISTOR	
	R8005	D1BB1002A055	CHIP RESISTOR	
	R8006	D1BB6801A055	CHIP RESISTOR	
	R801	ERC12ZGK185	S 1.8KOHM, K, 1/2W	
	R802	ERJ6GEYJ684	M 680KOHM, J, 1/10W	
	R8023	ERJ2GE0R00X	FIXED RESISTOR	
	R8024	ERJ2GE0R00X	FIXED RESISTOR	
	R8025	ERJ2GE0R00X	FIXED RESISTOR	
	R8026	ERJ2GE0R00X	FIXED RESISTOR	
	R8027	ERJ2GE0R00X	FIXED RESISTOR	
	R8028	ERJ2GE0R00X	FIXED RESISTOR	
	R8029	ERJ2GE0R00X	FIXED RESISTOR	
	R803	ERJ6GEYJ684	M 680KOHM, J, 1/10W	
	R8030	ERJ2GEJ101X	RESISTOR	
	R8031	D1BB2700A055	CHIP RESISTOR	
	R8032	D1BB2700A055	CHIP RESISTOR	
	R8035	ERJ2GE0R00X	FIXED RESISTOR	
	R8036	D0GBR00Z0002	CHIP RESISTOR	
	R8039	ERJ2GE0R00X	FIXED RESISTOR	
	R804	ERJ6GEYJ684	M 680KOHM, J, 1/10W	
	R805	ERJ6GEYJ684	M 680KOHM, J, 1/10W	
	R8056	ERJ2GEJ470X	RESISTOR	
	R8057	ERJ2GEJ470X	RESISTOR	
	R8058	ERJ2GEJ470X	RESISTOR	
	R8059	ERJ2GEJ470X	RESISTOR	
	R806	ERJ6GEYJ303	M 30KOHM, J, 1/10W	
	R8060	ERJ2GEJ470X	RESISTOR	
	R8061	ERJ2GEJ470X	RESISTOR	
	R8062	ERJ2GEJ470X	RESISTOR	
	R8063	ERJ2GEJ470X	RESISTOR	
	R8064	ERJ2GEJ470X	RESISTOR	
	R8065	ERJ2GEJ470X	RESISTOR	
	R8066	ERJ2GEJ470X	RESISTOR	
	R8067	ERJ2GEJ470X	RESISTOR	
	R8068	ERJ2GEJ470X	RESISTOR	
	R8069	ERJ2GEJ470X	RESISTOR	
	R807	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
	R8070	ERJ2GEJ470X	RESISTOR	
	R8071	ERJ2GEJ470X	RESISTOR	
	R8072	ERJ2GEJ470X	RESISTOR	
	R8073	ERJ2GEJ470X	RESISTOR	
	R8074	ERJ2GEJ221X	RESISTOR	
	R8075	ERJ2GEJ470X	RESISTOR	
	R8076	ERJ2GEJ470X	RESISTOR	
	R8077	ERJ2GEJ470X	RESISTOR	
	R8078	ERJ2GEJ470X	RESISTOR	
	R8079	ERJ2GE0R00X	FIXED RESISTOR	

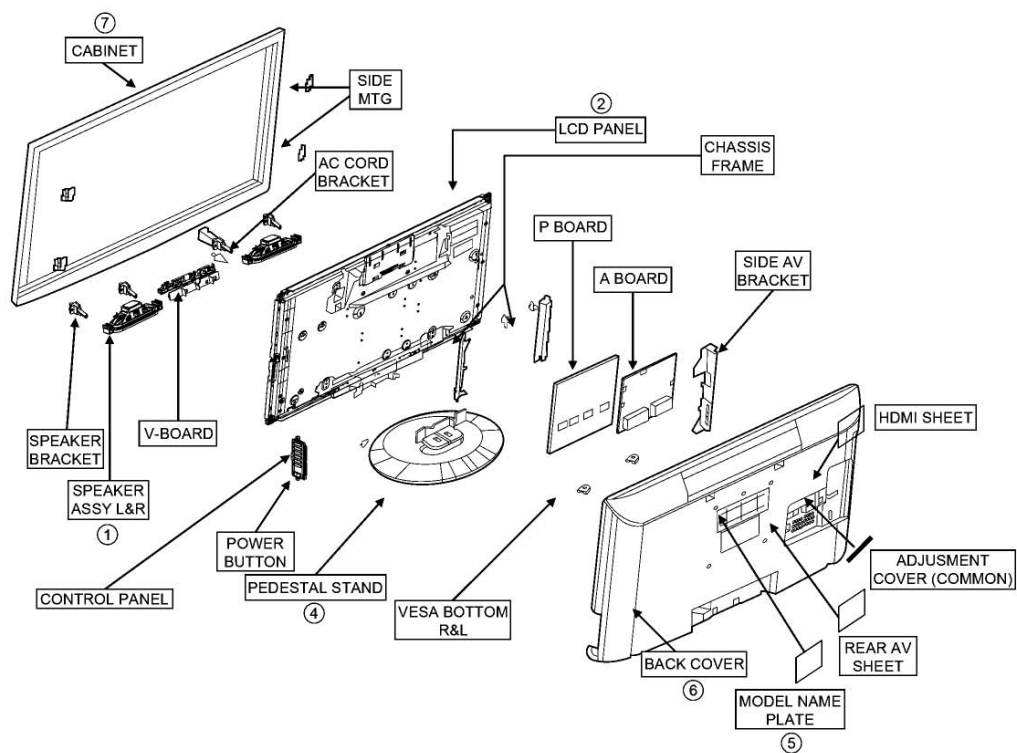
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R808	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
	R8080	ERJ2GE0R00X	FIXED RESISTOR	
	R8081	ERJ2GEJ103X	FIXED RESISTOR	
	R8082	ERJ2RKF75R0X	RESISTOR	
	R8083	ERJ2GEJ301X	RESISTOR	
	R8084	ERJ2GE0R00X	FIXED RESISTOR	
	R8086	ERJ2GEJ104X	FIXED RESISTOR	
	R8087	ERJ2GEJ103X	FIXED RESISTOR	
	R8090	ERJ2GEJ103X	FIXED RESISTOR	
	R8091	ERJ2GEJ101X	RESISTOR	
	R8093	ERJ2GEJ470X	RESISTOR	
	R8095	ERJ2GEJ103X	FIXED RESISTOR	
	R8097	ERJ2GEJ221X	RESISTOR	
	R8098	ERJ2GEJ103X	FIXED RESISTOR	
	R8099	ERJ2GEJ103X	FIXED RESISTOR	
	R810	ERDS1TJ220	C 220HM, J, 1/2W	
	R8100	ERJ2GEJ470X	RESISTOR	
	R8101	ERJ2GEJ103X	FIXED RESISTOR	
	R8106	ERJ2GEJ202X	RESISTOR	
	R8107	ERJ2GEJ101X	RESISTOR	
	R8108	ERJ2GEJ223X	RESISTOR	
	R811	ERJ12YJ100U	CHIP RESISTOR	
	R812	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
	R813	D0D5R10KA007	W 0.10HM, K, 5W	
	R814	ERJ6ENF6493	M 649KOHM, 1/10W	
	R815	ERJ6ENF6493	M 649KOHM, 1/10W	
	R816	ERJ6ENF6343	CHIP RESISTOR	
	R817	ERJ6ENF6343	CHIP RESISTOR	
	R818	ERJ6ENF1802	M 18KOHM, 1/10W	
	R819	ERDS2TJ101	C 100OHM, J, 1/4W	
	R820	ERG2S330H	M 330HM, J, 2W	
	R821	ERG2S330H	M 330HM, J, 2W	
	R822	ERJ3EKF6340	M 634OHM, F, 1/16W	
	R823	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R824	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R825	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
	R826	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
	R827	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
	R828	ERJ6GEYJ154	M 150KOHM, J, 1/10W	
	R829	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
	R830	ERJ6GEYJ564	M 560KOHM, J, 1/10W	
	R831	ERJ6GEYJ564	M 560KOHM, J, 1/10W	
	R832	ERJ6GEYJ514	M 510KOHM, J, 1/10W	
	R833	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
	R834	ERJ6GEYJ105	M 1MOHM, J, 1/10W	
	R835	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
	R837	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
	R838	ERDS1TJ471	C 470OHM, J, 1/2W	
	R839	ERDS1TJ220	C 220HM, J, 1/2W	
	R840	ERJ6GEYJ162	M 1.6KOHM, J, 1/10W	
	R841	ERJ6GEYJ162	M 1.6KOHM, J, 1/10W	
	R8412	ERJ2GEJ103X	FIXED RESISTOR	
	R842	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
	R843	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R844	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
	R845	ERGLSJW432E	RESISTOR	
	R846	ERDS1TJ302T	CARBON RESISTOR	
	R847	ERJ6GEYJ274	M 270KOHM, J, 1/10W	
	R8471	ERJ2GEJ103X	FIXED RESISTOR	
	R8472	EXB2HV103JV	RESISTOR	
	R8474	EXB28V103JX	RESISTOR	
	R8475	EXB28V103JX	RESISTOR	
	R848	ERJ6GEYJ274	M 270KOHM, J, 1/10W	
	R849	ERJ6GEYJ274	M 270KOHM, J, 1/10W	
	R850	ERJ6ENF2103	CHIP RESISTOR	
	R8501	ERJ2GEJ101X	RESISTOR	
	R8502	ERJ2GEJ331X	RESISTOR	
	R8503	ERJ2GEJ331X	RESISTOR	
	R8504	ERJ2GEJ331X	RESISTOR	
	R8506	ERJ2GEJ331X	RESISTOR	
	R8508	D1BB91R0A055	CHIP RESISTOR	
	R8509	D1BB91R0A055	CHIP RESISTOR	
	R851	ERJ6GEYJ223	M 22KOHM, J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8510	D1BB91R0A055	CHIP RESISTOR	
	R852	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
	R853	ERDS1TJ2R2	C 2.20HM, J, 1/2W	
	R854	ERDS2T0T	C 00HM, 1/4W	
	R855	D0D3R10KA004	RESISTOR	
	R8556	ERJ2GEJ103X	FIXED RESISTOR	
	R856	ERDS1TJ105	C 1MOHM, J, 1/2W	
	R8564	ERJ2GEJ103X	FIXED RESISTOR	
	R8566	ERJ2GE0R00X	FIXED RESISTOR	
	R857	ERDS1TJ151	C 150OHM, J, 1/2W	
	R858	ERQ12AJ220P	F 220HM, J, 1/2W	
	R859	ERGLSJ470P	METAL OXIDE FILM RESISTOR	
	R860	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
	R8603	ERJ2GEJ472X	RESISTOR	
	R8605	ERJ2GEJ680X	RESISTOR	
	R861	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R8610	ERJ2GEJ680X	RESISTOR	
	R8611	ERJ2GEJ680X	RESISTOR	
	R8612	ERJ2GEJ680X	RESISTOR	
	R8613	ERJ2GEJ680X	RESISTOR	
	R8614	ERJ2GEJ680X	RESISTOR	
	R8615	ERJ2GEJ680X	RESISTOR	
	R8616	ERJ2GEJ680X	RESISTOR	
	R8617	ERJ2GEJ680X	RESISTOR	
	R862	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R863	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
	R864	ERJ6ENF6651	M6.65KOHM, 1/10W	
	R865	ERJ3EKF2702	M 27KOHM, F, 1/16W	
	R8657	ERJ2GEJ103X	FIXED RESISTOR	
	R8658	ERJ2GEJ220X	FIXED RESISTOR	
	R866	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
	R8660	ERJ2GE0R00X	FIXED RESISTOR	
	R867	ERJ6ENF1801	M 1.8KOHM, 1/10W	
	R8674	EXB2HV103JV	RESISTOR	
	R868	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
	R8683	ERJ2GEJ680X	RESISTOR	
	R869	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R870	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R8703	ERJ2GEJ680X	RESISTOR	
	R871	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
	R8710	ERJ2GEJ680X	RESISTOR	
	R8711	ERJ2GEJ103X	FIXED RESISTOR	
	R8712	ERJ2GEJ103X	FIXED RESISTOR	
	R872	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R873	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
	R875	ERJ6GEYJ203	M 20KOHM, J, 1/10W	
	R8751	ERJ2GEJ103X	FIXED RESISTOR	
	R876	ERJ3EKF1002	M 10KOHM, F, 1/16W	
	R877	ERJ3EKF4872	FIXED RESISTOR	
	R878	ERJ6GEYJ303	M 30KOHM, J, 1/10W	
	R879	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	⚠ R880	D1F5100E0002	WIRE WOUND RESISTOR	
	R8802	ERJ2GEJ680X	RESISTOR	
	R8803	ERJ2GEJ680X	RESISTOR	
	R8804	ERJ2GEJ680X	RESISTOR	
	R8805	ERJ2GEJ680X	RESISTOR	
	R8806	ERJ2GEJ680X	RESISTOR	
	R8807	ERJ2GEJ680X	RESISTOR	
	R8808	ERJ2GEJ680X	RESISTOR	
	R881	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
	R882	ERJ6GEYJ363	FIXED RESISTOR	
	R883	ERJ6GEYJ273	M 27KOHM, J, 1/10W	
	R885	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	
	R8855	ERJ2GEJ680X	RESISTOR	
	R8856	ERJ2GEJ680X	RESISTOR	
	R8857	ERJ2GEJ680X	RESISTOR	
	R8858	ERJ2GEJ680X	RESISTOR	
	R8859	ERJ2GEJ680X	RESISTOR	
	R886	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
	R8860	ERJ2GEJ680X	RESISTOR	
	R8861	ERJ2GEJ103X	FIXED RESISTOR	
	R8862	ERJ2GEJ680X	RESISTOR	

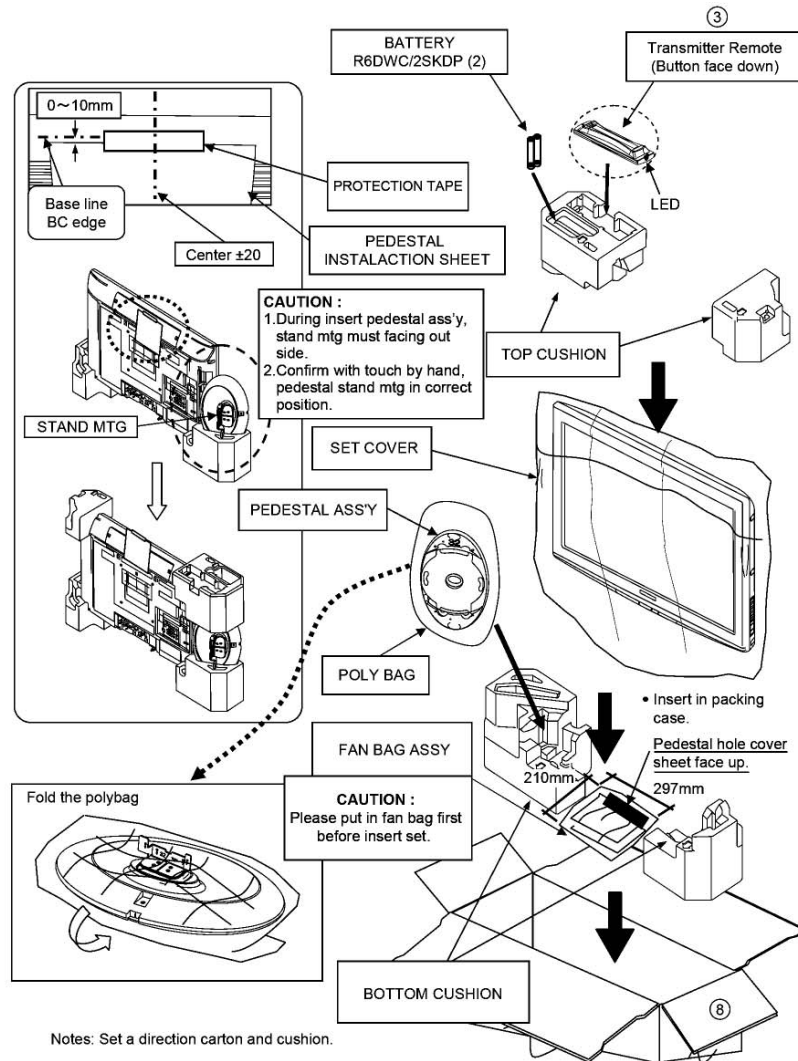
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8863	ERJ2GEJ680X	RESISTOR	
	R8864	ERJ2GEJ680X	RESISTOR	
	R8865	EXB2HV680JV	RESISTOR	
	R8866	EXB2HV680JV	RESISTOR	
	R8867	EXB2HV680JV	RESISTOR	
	R8868	ERJ2GEJ680X	RESISTOR	
	R887	ERJ6GEY0R00	M 00HM, J, 1/10W	
	R8871	ERJ2GEJ103X	FIXED RESISTOR	
	R8873	ERJ2GEJ103X	FIXED RESISTOR	
	R8875	ERJ2GEJ103X	FIXED RESISTOR	
	R8877	ERJ2GEJ680X	RESISTOR	
	R8878	ERJ2GEJ680X	RESISTOR	
	R8879	ERJ2GEJ680X	RESISTOR	
	R888	ERJ3EKF9761	M 9.76KOHM, F, 1/16W	
	R8880	ERJ2GEJ680X	RESISTOR	
	R8882	ERJ2GEJ680X	RESISTOR	
	R8883	ERJ2GEJ680X	RESISTOR	
	R8884	ERJ2GEJ680X	RESISTOR	
	R8885	ERJ2GEJ680X	RESISTOR	
	R8886	ERJ2GEJ680X	RESISTOR	
	R8887	ERJ2GEJ680X	RESISTOR	
	R8888	ERJ2GEJ680X	RESISTOR	
	R8889	ERJ2GEJ680X	RESISTOR	
	R889	ERJ3EKF1002	M 10KOHM, F, 1/16W	
	R8891	ERJ2GEJ680X	RESISTOR	
	R8892	ERJ2GEJ680X	RESISTOR	
	R8894	ERJ2GEJ680X	RESISTOR	
	R8896	ERJ2GE0R00X	FIXED RESISTOR	
	R8898	ERJ2GEJ103X	FIXED RESISTOR	
	R890	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
	R8900	ERJ2GEJ680X	RESISTOR	
	R8901	ERJ2GEJ680X	RESISTOR	
	R8904	ERJ2GEJ103X	FIXED RESISTOR	
	R8905	ERJ2GEJ103X	FIXED RESISTOR	
	R8906	ERJ2GEJ103X	FIXED RESISTOR	
	R8907	ERJ2GEJ103X	FIXED RESISTOR	
	R8908	ERJ2GEJ103X	FIXED RESISTOR	
	R8909	ERJ2GEJ103X	FIXED RESISTOR	
	R891	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R8910	ERJ2GEJ103X	FIXED RESISTOR	
	R892	ERJ6GEYJ823	M 82KOHM, J, 1/10W	
	R8927	ERJ2GE0R00X	FIXED RESISTOR	
	R893	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
	R8935	ERJ2GEJ103X	FIXED RESISTOR	
	R894	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R8947	ERJ2GEJ680X	RESISTOR	
	R895	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
	R8952	EXB2HV680JV	RESISTOR	
	R8953	EXB2HV680JV	RESISTOR	
	R8954	ERJ2GEJ680X	RESISTOR	
	R8957	ERJ2GEJ103X	FIXED RESISTOR	
	R8958	ERJ2GEJ103X	FIXED RESISTOR	
	R8959	ERJ2GEJ680X	RESISTOR	
	R896	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
	R8960	ERJ2GEJ680X	RESISTOR	
	R8963	ERJ2GEJ103X	FIXED RESISTOR	
	R897	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
	R898	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
	R899	ERJ3EKF1151	FIXED RESISTOR	
	R920	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
		TRANSFORMERS		
⚠	T802	ETS40LC126AD	RESONANCE TRANSFORMER	
⚠	T803	ETS32CZ139AH	SWITCHING TRANSFORMER	
		OTHERS		
	A01	K1KA04B00273	CONNECTOR	
	A03	K1KY23AA0607	CONNECTOR	
	A10	K1KA08B00270	CONNECTOR	
	A11	K1KB30B00044	CONNECTOR	
	A12	K1KA04AA0190	CONNECTOR	
	A20	K1KA05A00466	CONNECTOR	
	CN0100	K1KA08AA0714	CONNECTOR	
⚠	F801	K5D502BNA005	FUSE	
	FL4201	EXC28CE201U	CHOKO COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	FL4202	EXC28CE201U	CHOKO COIL	
	FL4203	EXC28CE201U	CHOKO COIL	
	JK3001	K1FY315A0003	CONNECTOR	
	JK3100A	K2HA9YYA0002	AV TERMINAL	
	JK3107	K4AK16B00001	AV TERMINAL	
	JK4500	K1FY119D0006	CONNECTOR	
	JK4501	K1FY119D0006	CONNECTOR	
	JK8302	K1NA09E00080	CARD READER	
	JS1000	ERJ2GE0R00X	FIXED RESISTOR	
	JS1026	ERJ2GE0R00X	FIXED RESISTOR	
	JSP814	ERJ6GEY0R00	M 00HM, J, 1/10W	
	K01	K1KA04BA0047	CONNECTOR	
	LF805	G0B103H00009	CHOKO COIL	
	LF806	G0B103H00009	CHOKO COIL	
	P1	K1KA02B00295	CONNECTOR	
	P2	K1KA10AA0191	CONNECTOR	
	P5	K1KY23AA0606	CONNECTOR	
	PA4201	ERBSE2R50U	FUSE	
	PA5420	ERBSE5R00U	FUSE	
	PA5430	ERBSE2R50U	FUSE	
	PA5601	ERBSE2R50U	FUSE	
	PC801	B3PAA0000363	PHOTO COUPLER	
	PC802	B3PAA0000363	PHOTO COUPLER	
	PC803	B3PAA0000363	PHOTO COUPLER	
⚠	RL801	K6B1AGA00179	RELAY	
	RM2500	B3RAD0000168	PHOTO DETECTOR	
	SN2500	B3JB000000046	PHOTO DETECTOR	
⚠	SW2600	ESB33535XFD	POWER SWITCH	
	SW2601	K0H1BA000445	CONNECTOR	
	SW2602	K0H1BA000445	CONNECTOR	
	SW2603	K0H1BA000445	CONNECTOR	
	SW2604	K0H1BA000445	CONNECTOR	
	SW2605	K0H1BA000445	CONNECTOR	
⚠	TU2901A	ENG39E04GRF	TUNER	
	V10	K1KA07B00135	CONNECTOR	
	X1100	H0J100500035	CRYSTAL OSC	
	X2010	H0J245500089	CRYSTAL OSC	
	X8001	H0J270500120	CRYSTAL OSC	

Model No. : TH-L37X10R Parts Location



Model No. : TH-L37X10R Packing Exploded View



Model No. : TH-L37X10R Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K2CQ2YY00039	AC CORD		
	1	L0AA14B00002	SPEAKER		
	2	L5EDD9Q00008	LCD PANEL		
	3	N2QAYB000370	REMOTE CONTROL		
	4	TBL4GA0015	PEDESTAL ASSEMBLY		
		TBM4GA002	PANASONIC LOGO SHEET		
	5	TBM4GC240	MODEL NAME PLATE		
		TBM4GU029	REAV AV INDICATION SHEET		
		TBM4GU032	HDMI SHEET		
		TBM4GU041	SIDE AV IND. SHEET		
		TBX4GA01101A	CONTROL BUTTON		
		TBX4GA01201A	POWER BUTTON		
		TKK4G8611	COVER		
		TKK4GC5010	LED PANEL		
		TKP4GA02502A	SIDE AV BRACKET		
		TKP4GA02601	CONTROL PANEL BRACKET		
		TKX4GA01001	SPEAKER BRACKET		
		TKX4GA01201	PEDESTAL COVER		
		TKX4GA01301	LED SHADE - RIB		
		TMX4GX001	AC CORD BRACKET		
	NLA	TZT/A10PHN	A PRINT ASSEMBLY		
	NLA	TNP4G454AF	P BOARD		
	NLA	TNPA4834BH	V BOARD		
	NLA	TNPA4901BH	K BOARD		
		TPD4GA0094-1	TOP CUSHION		
		TPD4GA0095-1	BOTTOM CUSHION		
		TPE4GH004	POLYBAG		
		TPE4GH015	SET COVER		
		TQZ4GB166	FAN BAG		
	6	TTU4GA0214	BACK COVER ASSY		
	7	TTY4GA0066	CABINET ASSEMBLY		
	8	TXFPC010NEW	PACKING CASE ASSY		
		TXFPE01RLTU	CLEANING CLOTH ASSY		
		TXJA190PSN	LVDS CABLE		
		XTB4+18JFJK	SCREW		