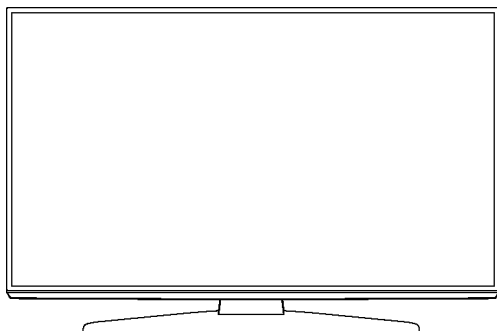


Service Manual

LCD TV

Model No. **TH-L55WT50M**

LA34 Chassis



WARNING

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

IMPORTANT SAFETY NOTICE

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

TABLE OF CONTENTS

	PAGE		PAGE
1 Safety Precautions	3	12.18. K-Board Schematic Diagram	62
1.1. General Guidelines	3	12.19. LD-Board Schematic Diagram	63
1.2. Touch-Current Check	3	12.20. LP-Board Schematic Diagram	64
2 Warning	4	13 Printed Circuit Board	65
2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices	4	13.1. A-Board	65
2.2. About lead free solder (PbF)	5	13.2. K-Board	67
3 Service Navigation	6	13.3. LD-Board	68
3.1. PCB Layout	6	13.4. LP-Board	69
3.2. Applicable signals	7	14 Exploded View and Replacement Parts List	71
4 Specifications	8	14.1. Exploded View and Mechanical Replacement Parts List	71
5 Technical Descriptions	10	14.2. Electrical Replacement Parts List	74
5.1. Specification of KEY for DTCP-IP, One-to- One, Widevine and Netflix	10		
6 Service Mode	11		
6.1. How to enter into Service Mode	11		
6.2. Service tool mode	13		
6.3. DRV Check - USB HDD Check	14		
6.4. Hotel mode	14		
6.5. Data Copy by SD Card	15		
7 Troubleshooting Guide	18		
7.1. Check of the IIC bus lines	18		
7.2. Power LED Blinking timing chart	19		
7.3. LCD Panel test mode	19		
8 Disassembly and Assembly Instructions	20		
8.1. Disassembly Flow Chart for the Unit	20		
8.2. Disassembly Procedure for the Unit	20		
9 Measurements and Adjustments	33		
9.1. Voltage chart of A-board	33		
10 Block Diagram	35		
10.1. Main Block Diagram	35		
10.2. Block (1/2) Diagram	36		
10.3. Block (2/2) Diagram	37		
11 Wiring Connection Diagram	39		
11.1. Caution statement.	39		
11.2. Wiring 1	39		
11.3. Wiring 2	40		
11.4. Wiring 3	41		
11.5. Wiring 4	42		
11.6. Wiring 5	43		
12 Schematic Diagram	45		
12.1. Schematic Diagram Note	45		
12.2. A-Board (1/16) Schematic Diagram	46		
12.3. A-Board (2/16) Schematic Diagram	47		
12.4. A-Board (3/16) Schematic Diagram	48		
12.5. A-Board (4/16) Schematic Diagram	49		
12.6. A-Board (5/16) Schematic Diagram	50		
12.7. A-Board (6/16) Schematic Diagram	51		
12.8. A-Board (7/16) Schematic Diagram	52		
12.9. A-Board (8/16) Schematic Diagram	53		
12.10. A-Board (9/16) Schematic Diagram	54		
12.11. A-Board (10/16) Schematic Diagram	55		
12.12. A-Board (11/16) Schematic Diagram	56		
12.13. A-Board (12/16) Schematic Diagram	57		
12.14. A-Board (13/16) Schematic Diagram	58		
12.15. A-Board (14/16) Schematic Diagram	59		
12.16. A-Board (15/16) Schematic Diagram	60		
12.17. A-Board (16/16) Schematic Diagram	61		

1 Safety Precautions

1.1. General Guidelines

1. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
2. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
3. When conducting repairs and servicing, do not twist the Fasten connectors but plug them straight in or unplug them straight out.
4. 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.
5. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
6. 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 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. Reserve the AC plug in the AC outlet and repeat each of the above measure.
6. The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:

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

For d. c.: $U_1 = 1.0 \text{ V}$,

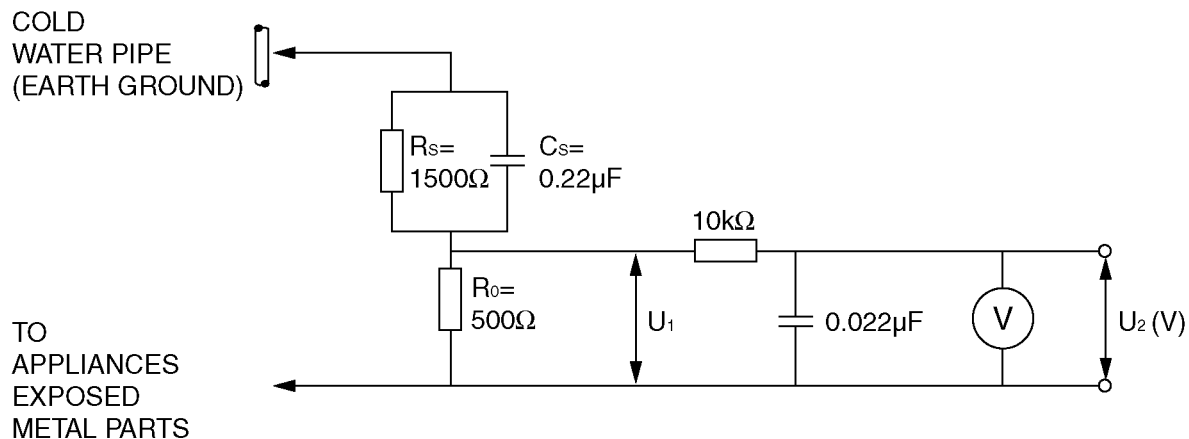
Note:

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

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

7. In case a measurement is 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.

Measuring network for TOUCH CURRENTS



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 d.c. respectively

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

Figure 1

2 Warning

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

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

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

Caution

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

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

2.2. About lead free solder (PbF)

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

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

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

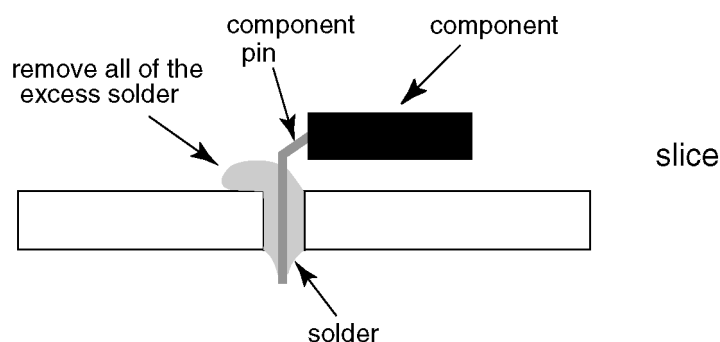
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

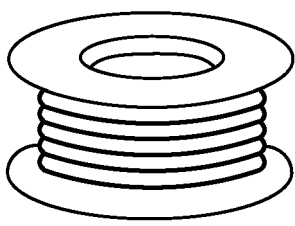
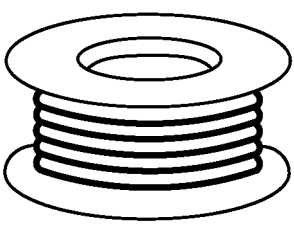
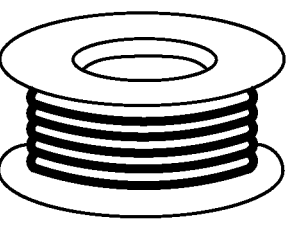
Caution

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



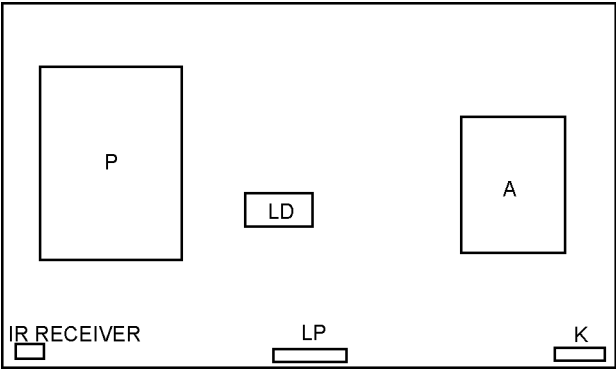
Suggested Pb free solder

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

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

3 Service Navigation

3.1. PCB Layout



Board Name	Function
A-Board	Main
K-Board	LED, Cat's eye
P-Board	Power supply, Power switch, Control Button Non serviceable. P-Board should be exchanged for service.
LP-Board	LOGO LED
LD-Board	LED Drive

3.2. Applicable signals

■ COMPONENT (Y, P_B, P_R) (from AV2 terminal), HDMI

Signal name	COMPONENT	HDMI
525 (480) / 60i, 60p	*	*
625 (576) / 50i, 50p	*	*
750 (720) / 60p, 50p	*	*
1,125 (1,080) / 60i, 50i	*	*
1,125 (1,080) / 60p, 50p, 24p		*

* Mark: Applicable input signal

■ PC (from D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	59.94
800 × 600 @60 Hz	37.88	60.32
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,280 × 768 @60 Hz	47.70	60.00
1,366 × 768 @60 Hz	48.39	60.04

Applicable input signal for PC is basically compatible to VESA standard timing.

■ PC (from HDMI terminal)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	60.00
1,280 × 720 @60 Hz	45.00	60.00
1,920 × 1,080 @60 Hz	67.50	60.00

Applicable input signal for PC is basically compatible to HDMI standard timing.

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- PC signal is magnified or compressed for display, so that it may not show fine detail with sufficient clarity.

4 Specifications

■ TV

Power Source	AC 110 - 240 V, 50 / 60 Hz
Power Consumption	
Power Rating	143 W
Standby condition	0.2 W
Display panel	
Panel system	IPS LED backlight Liquid Crystal Display
Visible screen size (diagonal)	139 cm / 55 inches
Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Dimensions (W × H × D)	1,236 mm × 804 mm × 335 mm (With Pedestal)
	1,236 mm × 726 mm × 27 mm (TV only)
Mass	19.5 kg Net (With Pedestal)
	17.0 kg Net (TV only)
Sound	
Speaker	8 train speakers × 2, Woofer (Φ 75 mm) × 1
Audio output	18 W (4 W + 4 W + 10 W)
Headphones	M3 (3.5 mm) stereo mini Jack × 1
Receiving systems / Band name	

17 Systems	Function
1 PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
2 PAL I	
3 PAL D, K	
4 SECAM B, G	
5 SECAM D, K	
6 SECAM K1	
7 NTSC M (NTSC 3.58/4.5 MHz)	

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

Receiving Channels

VHF BAND

2-12 (PAL/SECAM B, K1)	0-12 (PAL B AUST.)
1-9 (PAL B N.Z.)	1-12 (PAL/SECAM D)
1-12 (NTSC M Japan)	2-13 (NTSC M USA)

UHF BAND

21-69 (PAL G, H, I/SECAM G, K, K1)	
28-69 (PAL B AUST.)	13-57 (PAL D, K)
13-62 (NTSC M Japan)	14-69 (NTSC M USA)

CATV

S1-S20 (OSCAR)	1-125 (USA CATV)
C13-C49 (JAPAN)	S21-S41 (HYPER)
Z1-Z37 (CHINA)	5A, 9A (AUST.)

VHF / UHF

Aerial - Rear

Operating Conditions

Temperature:	0 °C - 40 °C
Humidity:	20 % - 80 % RH (non-condensing)

Connection terminals

AV1 IN

AUDIO L - R	RCA PIN Type × 2	0.5 V [rms]
VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

AUDIO OUT

AUDIO L - R	RCA PIN Type × 2	0.5 V [rms] (high impedance)
--------------------	------------------	------------------------------

AV2 IN

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

HDMI 1 / 2 / 3 / 4 input

TYPE A Connectors

- This TV supports "HDAVI control 5" function.

PC

HIGH-DENSITY D-SUB 15PIN

R, G, B:	0.7 V [p-p] (75 Ω)
HD, VD:	TTL Level 2.0 - 5.0 V [p-p] (high impedance)
• Applicable input signals:	VGA, SVGA, WVGA, XGA, SXGA, WXGA

Card slot

SD Card slot × 1

ETHERNET

10BASE-T / 100BASE-TX

USB 1 / 2 / 3

USB 2.0 TYPE A Connectors DC 5 V, Max. 500 mA

DIGITAL AUDIO OUT

PCM / Dolby Digital / DTS, Fibre optic

Built-in wireless LAN**Standard compliance and
Frequency range*¹**

IEEE 802.11a/n
5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz

IEEE 802.11b/g/n
2.40 GHz - 2.4835 GHz

Security

WPA2-PSK (TKIP/AES) WPA-PSK (TKIP/AES) WEP (64 bit/128 bit)

Bluetooth wireless technology*²**Standard Compliance
Frequency Range**

Bluetooth 3.0
2.402 GHz - 2.480 GHz

*¹: The frequency and channel differ depending on the country.

*²: Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously (except the 3D Eyewear and the VIERA Touch Pad Controller).

■ 3D Eyewear (TY-ER3D4MA)**Dimensions (W × H × D)**

167.7 mm × 42.2 mm × 170.7 mm

Mass

Approx. 31 g

Lens type

Liquid Crystal Shutter

Usage temperature range

0 °C - 40 °C

Battery*

Coin-shaped lithium battery CR2025

Operation time: Approx. 75 hours in continuous use of the battery made by Panasonic

Viewing range*

Within 3.2 m from front surface of the TV

Materials

Main body: Resin

Lens section: Liquid crystal glass

Communication system

2.4 GHz band FH-SS (Frequency Hopping Spread Spectrum)

* There are differences in the viewing range of the 3D Eyewear among individuals.

- The 3D Eyewear may not operate correctly at the outside of the viewing range.

Note

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

5 Technical Descriptions

5.1. Specification of KEY for DTCP-IP, One-to-One, Widevine and Netflix

5.1.1. General information:

1. EEPROM (IC8902) for spare parts has the seed of KEY for each.
2. The final KEY data will be generated by Peaks IC (IC8000) when SELF CHECK was done and are stored in both Peaks IC (IC8000) and EEPROM (IC8902).

Four KEY are not generated for all models.

The necessary KEY are only generated and stored depend on the feature of models.

5.1.2. Replacement of ICs:

When Peaks IC (IC8000) is replaced, EEPROM (IC8902) should be also replaced with new one the same time.

When EEPROM (IC8902) is replaced, Peaks IC (IC8000) is not necessary to be replaced the same time.

After the replacement of IC, SELF CHECK should be done to generate the final KEY data.

How to SELF CHECK: While pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

TV will be forced to the factory shipment setting after this SELF CHECK.

5.1.3. Model and Keys:

Model No.	Keys			
	One-to-One (For USB Rec.)	DTCP-IP	WIDEVINE	Netflix
TH-L55WT50M	None	None	Yes	Yes

6 Service Mode

6.1. How to enter into Service Mode

6.1.1. Purpose

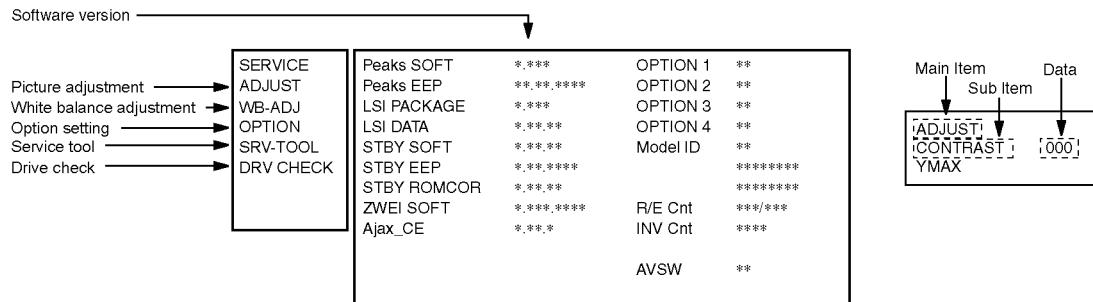
After exchange parts, check and adjust the contents of adjustment mode.

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

Note:

Service Mode can not be entered when 3D signal input.

Input 2D signal to enter Service Mode.



6.1.2. Key command

- [1] button...Main items Selection in forward direction
- [2] button...Main items Selection in reverse direction
- [3] button...Sub items Selection in forward direction
- [4] button...Sub items Selection in reverse direction
- [RED] button...All Sub items Selection in reverse direction
- [GREEN] button...All Sub items Selection in forward direction
- [VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

6.1.3. How to exit

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

6.1.4. Contents of adjustment mode

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

Main item	Sub item	Sample Data	Remark
ADJUST	CONTRAST	252	
	COLOR	46	
	TINT	00	
	SUB-BRT	800	
	BACKLGT	200	
	H-POS	0	
	H-AMP	0	
	V-POS	0	
	V-AMP	0	
	V COM	153	
WB-ADJ	R-GAIN	80	
	G-GAIN	71	
	B-GAIN	61	
	R-CENT	7E	
	G-CENT	80	
	B-CENT	91	
OPTION	Boot	ROM	Factory Preset
	STBY-SET	00	
	CLK MODE	00	
	CLOCK	000	
	EMERGENCY	ON	
	Y/C Delay	1	
	OPT 1	10110000	
	OPT 2	11100110	
	OPT 3	00001001	
	OPT 4	00000010	
	EDID-CLK	MID	
SRV-TOOL		00	See Service tool mode
DRV CHECK	USBHDD CHECK	00	See DRV Check-USBHDD Check

6.2. Service tool mode

6.2.1. How to access

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

	SRV-TOOL	
Display of TD2Microcode version →	TD2Microcode:09000007	
Display of Flash ROM maker code →	Flash ROM : 2C - DC	
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00 .	Time 00000:40 Count 0000022

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

6.2.2. Display of SOS History

SOS History (Number of LED blinking) indication.

From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.
This indication will be cleared by [Self-check indication and forced to factory shipment setting].

6.2.3. POWER ON TIME/COUNT

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

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

Count : Number of ON times by decimal

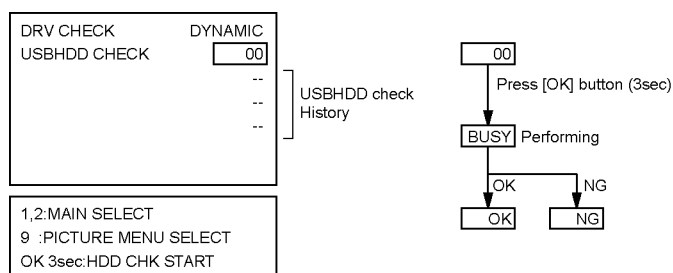
Note : This indication will not be cleared by either of the self-checks or any other command.

6.2.4. Exit

1. Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

6.3. DRV Check - USB HDD Check

1. Select [DRV Check - USBHDD Check] in Service Mode.
2. Press [OK] button on the remote control for more than 3 seconds.



6.4. 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:
While pressing [VOLUME (-)] button of the main unit,
press [AV] button of the remote control three times within
2 seconds.

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
Private Information	Keep

Select
Change EXIT
RETURN

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

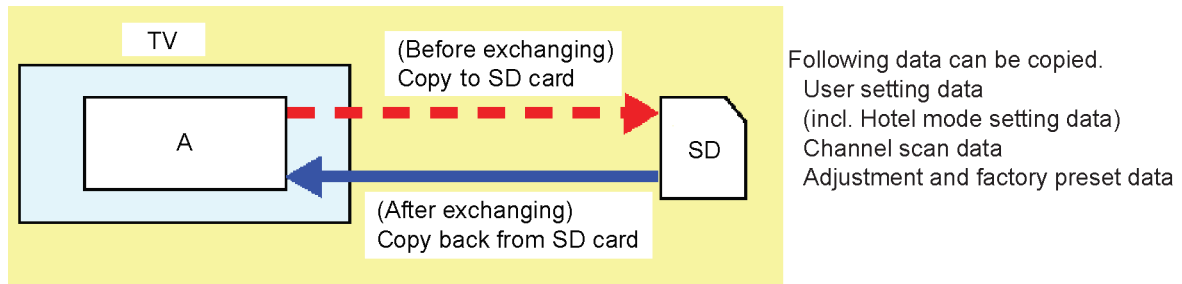
Item	Function
Hotel Mode	Select hotel mode On/Off
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : Off,TV,AV1,AV2,PC,HDMI1,HDMI2,HDMI3,HDMI4 • Off: give priority to a last memory.
Initial POS	Select programme number. Selection : Off/0 to 99 • Off: 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
Private Information	Select private information for VIERA Cast is Keep or Reset if Hotel mode is set to [On] when TV power on. Selection : Keep/Reset • Keep: private information for VIERA Cast is keep • Reset: private information for VIERA Cast is reset

6.5. Data Copy by SD Card

6.5.1. Purpose

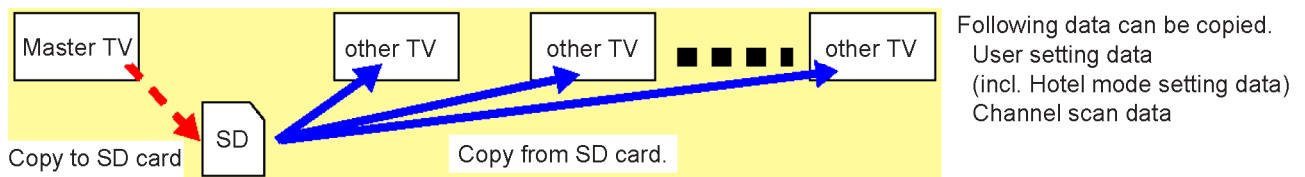
(a) Board replacement (Copy the data when exchanging A-board):

When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



(b) Hotel (Copy the data when installing a number of units in hotel or any facility):

When installing a number of units in hotel or any facility, the data in master TV can be copied to SD card and then copy to other TVs.



6.5.2. Preparation

Make pwd file as startup file for (a) or (b) in a empty SD card.

1. Insert a empty SD card to your PC.
2. Right-click a blank area in a SD card window, point to New, and then click text document. A new file is created by default (New Text Document.txt).
3. Right-click the new text document that you just created and select rename, and then change the name and extension of the file to the following file name for (a) or (b) and press ENTER.

File name:

- (a) For Board replacement : boardreplace.pwd
- (b) For Hotel : hotel.pwd

Note:

Please make only one file to prevent the operation error.

No any other file should not be in SD card.

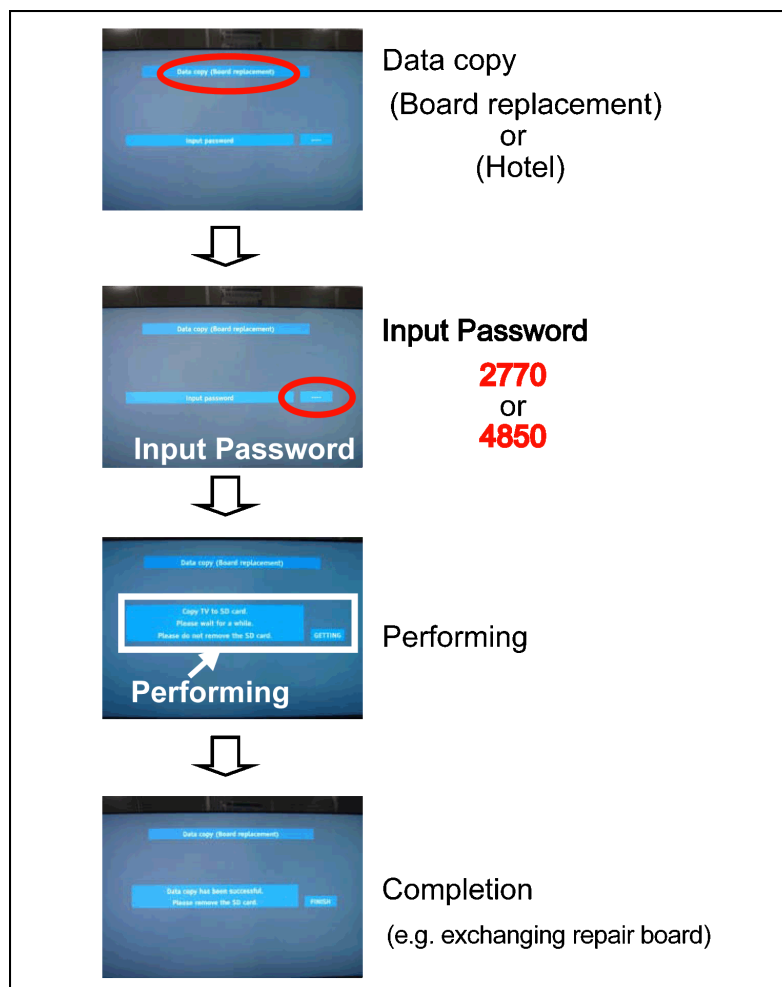
6.5.3. Data copy from TV set to SD Card

1. Turn on the TV set.
2. Insert SD card with a startup file (pwd file) to SD slot.
On-screen Display will be appeared according to the startup file automatically.
3. Input a following password for (a) or (b) by using remote control.
(a) For Board replacement : 2770
(b) For Hotel : 4850
Data will be copied from TV set to SD card.
It takes around 2 to 6 minutes maximum for copying.
4. After the completion of copying to SD card, remove SD card from TV set.
5. Turn off the TV set.

Note:

Following new folder will be created in SD card for data from TV set.

- (a) For Board replacement : user_setup
- (b) For Hotel : hotel

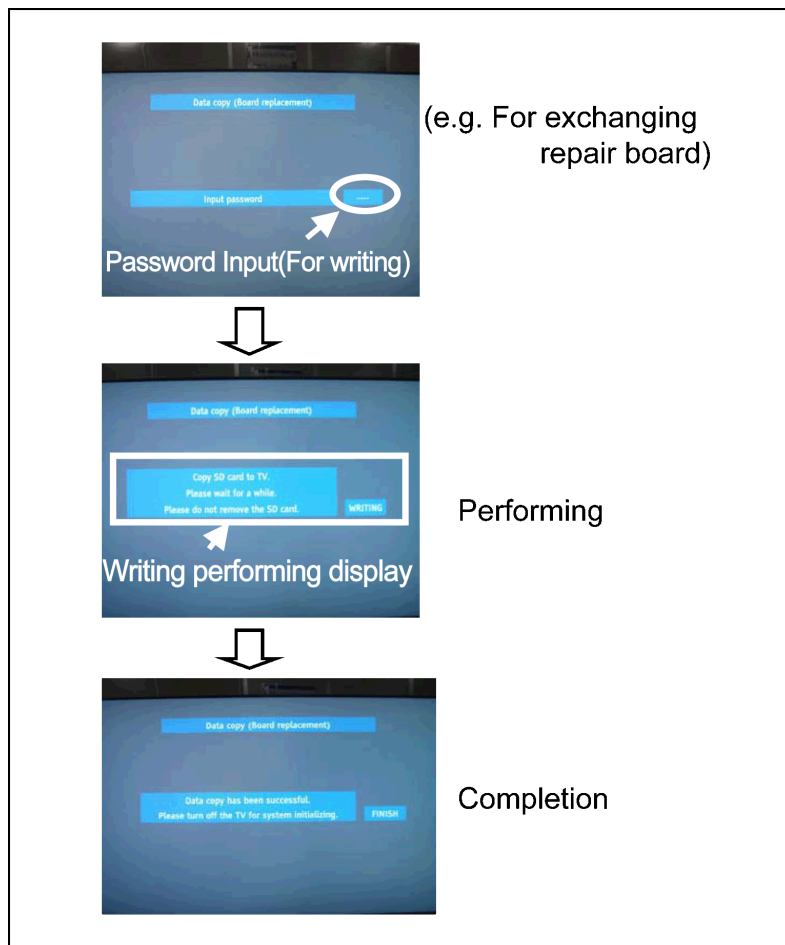


6.5.4. Data copy from SD Card to TV set

1. Turn on the TV set.
2. Insert SD card with Data to SD slot.
On-screen Display will be appeared according to the Data folder automatically.
3. Input a following password for (a) or (b) by using remote control.
(a) For Board replacement : 2771
(b) For Hotel : 4851
Data will be copied from SD card to TV set.
4. After the completion of copying to SD card, remove SD card from TV set.
(a) For Board replacement : Data will be deleted after copying (Limited one copy).
(b) For Hotel : Data will not be deleted and can be used for other TVs.
5. Turn off the TV set.

Note:

1. Depending on the failure of boards, function of Data copy for board replacement does not work.
2. This function can be effective among the same model numbers.



7 Troubleshooting Guide

Use the self-check function to test the unit.

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

7.1. Check of the IIC bus lines

7.1.1. How to access

7.1.1.1. Self-check indication only:

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

7.1.1.2. Self-check indication and forced to factory shipment setting:

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

7.1.2. Screen display

55FHD		Panasonic 2012LCD	
SELF CHECK COMPLETE			
TUN	OK	PEAKS-SOFT	*.*.*
STBY	OK	PEAKS-EEP	***.*.*.*.*
MEM1	OK	LSI-PACKAGE	*.*.*.*
MEM2	OK	LSI-RELEASE	*.*.*
AVSW	OK	STBY-SOFT	*.*.*.*
LAN	OK	STBY-EEP	***.*.*.*.*
ZWEI	OK	STBY-ROMCORR	*.*.*.*
ID2	OK	ZWEI-SOFT	*****
BT	OK		
WiFi	OK		
		SUM	*****
		MODEL ID	*****

7.1.3. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Check Ref. No.	Description	Check Point
TUN	TU6705	TUNER	A-BOARD
STBY	IC8000	PEAKS-PRO4(STM)	A-BOARD
MEM1	IC8902	PEAKS EEPROM	A-BOARD
MEM2	IC8900	NAND FLASH	A-BOARD
AVSW	IC3001	AV SW	A-BOARD
LAN	IC8600	ETHERPHY	A-BOARD
ZWEI		ZWEI	LCD PANEL
ID2		ID2	A-BOARD
BT	IC8000, A21	BLUETOOTH	A-BOARD/BLUETOOTH
WiFi	IC8000, A20	WiFi	A-BOARD/WiFi

7.1.4. Exit

Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

7.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

Blinking Times	Contents	Check point
1	BACK LIGHT SOS	LCD PANEL P-Board
3	STM IROM BOOT PROGRAM SOS	A-Board P-Board
7	SUB 3.3V SENSE SOS	A-Board
8	SOS (T-CON power)	A-Board
9	SOUND SOS	A-Board Speaker
10	ZWEI/FRC SOS	A-Board
12	BE SOS	A-Board
13	EMERGENCY SOS	A-Board
20	2nd BOOT PROGRAM SOS (Watchdog timer over flow)	A-Board
21	2nd BOOT PROGRAM SOS (System error)	A-Board
22	2nd BOOT PROGRAM SOS (Main system bus freeze)	A-Board
23	2nd BOOT PROGRAM SOS (Accidental interrupt signal)	A-Board
24	2nd BOOT PROGRAM SOS (NAND Flash memory data transfer error finish)	A-Board
25	2nd BOOT PROGRAM SOS (Unsupported NAND Flash memory)	A-Board

7.3. LCD Panel test mode

Purpose:

To find the possible failure point where in LCD Panel or Printed Circuit Board when the abnormal picture is displayed.

How to Enter:

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

How to Exit:

Disconnect AC plug from wall outlet.

How to confirm:

If the abnormal picture is displayed, go into LCD Panel test mode to display the several test patterns.

And then, judge by the following method.

Still abnormal picture is displayed: The cause must be in LCD Panel.

Normal picture is displayed: The cause must be in A board.

Remarks:

The test pattern is created by the circuit in LCD Panel.

In LCD Panel test mode, this test pattern is displayed unaffected by signal processing for RF or input signal.

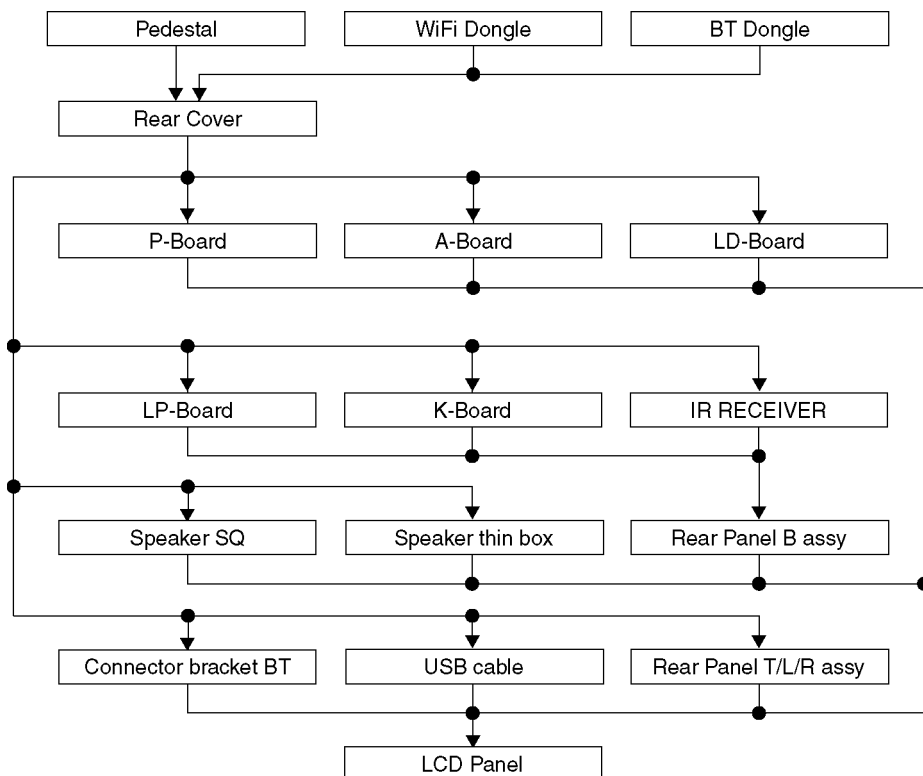
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

8 Disassembly and Assembly Instructions

8.1. Disassembly Flow Chart for the Unit

This is a disassembly chart.

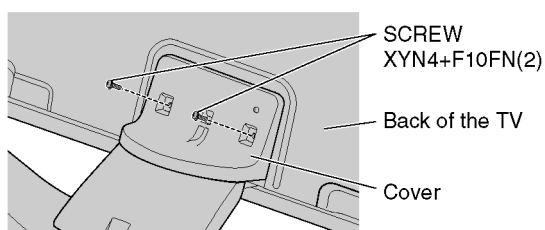
When assembling, perform this chart conversely.



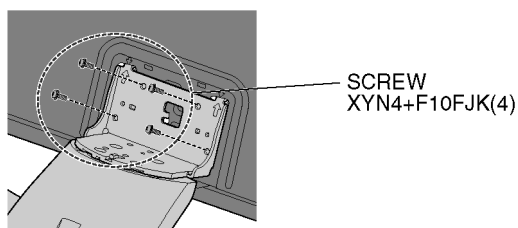
8.2. Disassembly Procedure for the Unit

8.2.1. Pedestal

1. Lay down the unit so that the rear cover faces upward.
2. Remove the 2 screws.
3. Remove the cover.

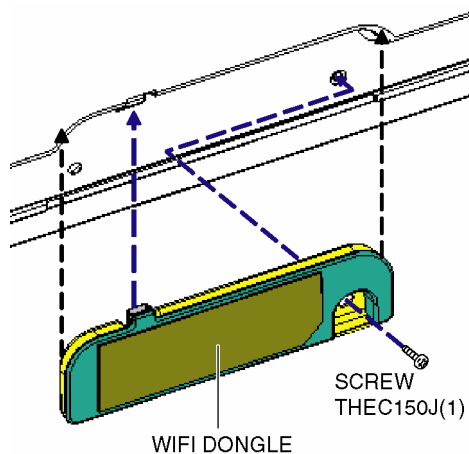


4. Remove the 4 screws.
5. Remove the pedestal.



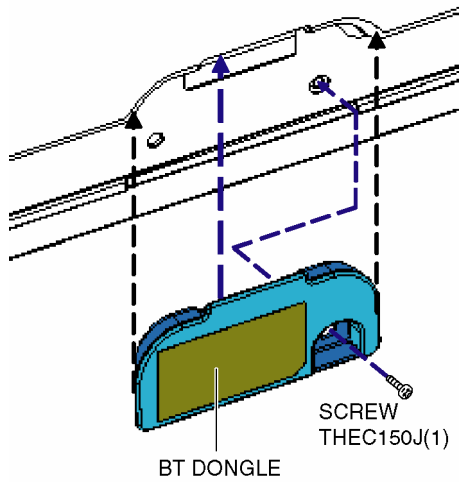
8.2.2. WiFi dongle

1. Remove the 1 screw.
2. Remove the WiFi dongle.



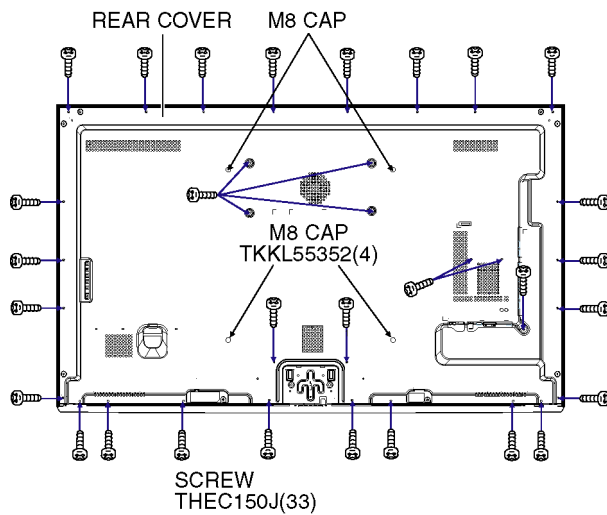
8.2.3. BT dongle

1. Remove the 1 screw.
2. Remove the BT dongle.



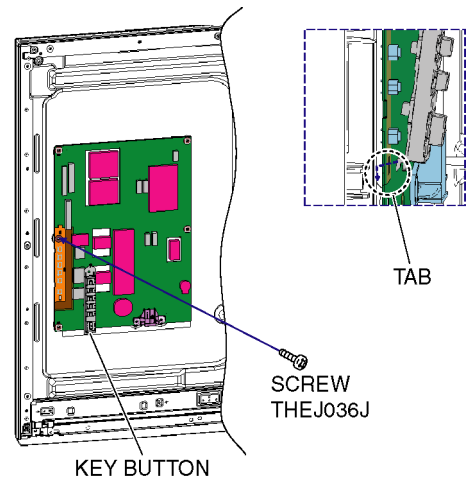
8.2.4. Rear cover

1. Remove the 33 screws.
2. Remove the 4 M8 CAPs.
3. Remove the rear cover.

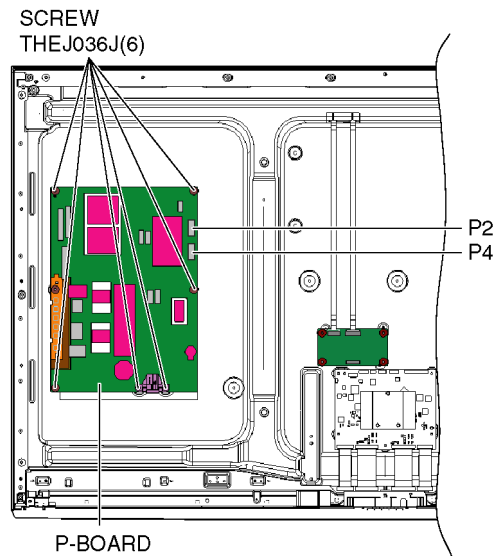


8.2.5. P-Board

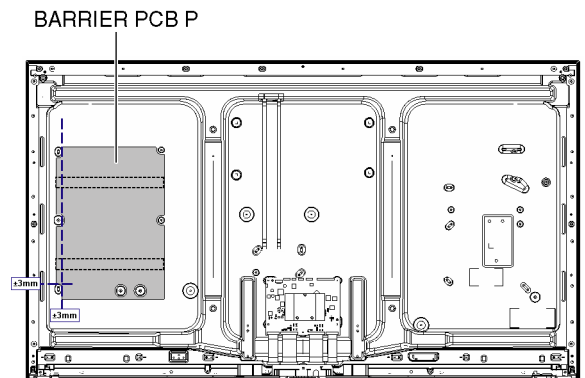
1. Remove the 1 screw and 1 tab.
2. Remove the key button.



3. Remove the 6 screws.
4. Disconnect the connectors (P2 and P4).
5. Remove the P-Board.

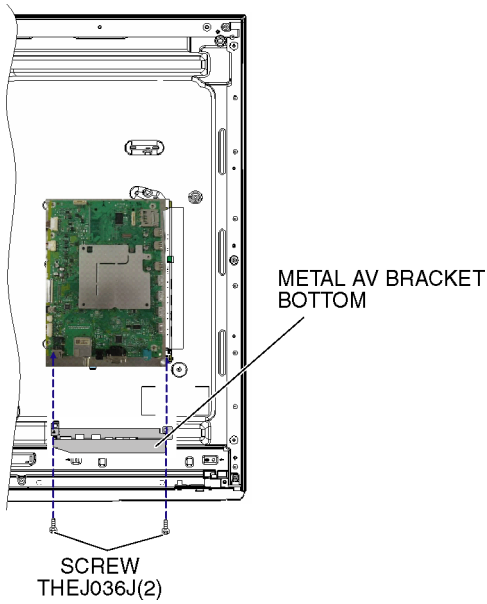


6. Remove the Barrier PCB P.

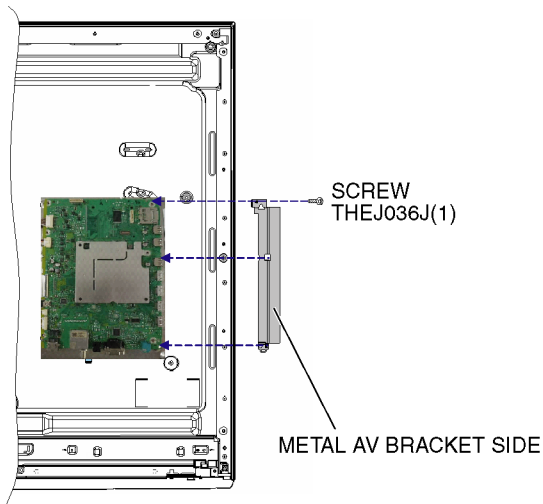


8.2.6. A-Board

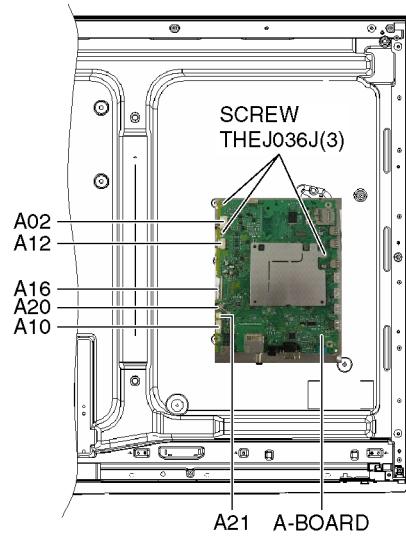
1. Remove the 2 screws.
2. Remove the metal AV bracket bottom.



3. Remove the 1 screw.
4. Remove the metal AV bracket side.

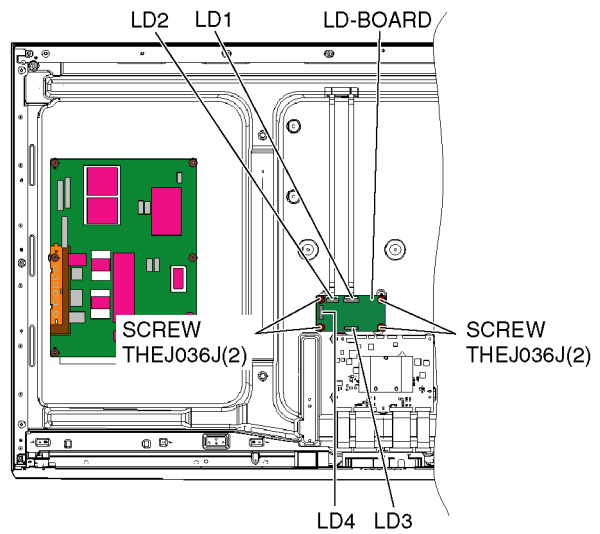


5. Remove the 3 screws.
6. Disconnect the connectors (A02, A10, A12, A16, A20 and A21).
7. Remove the A-Board.



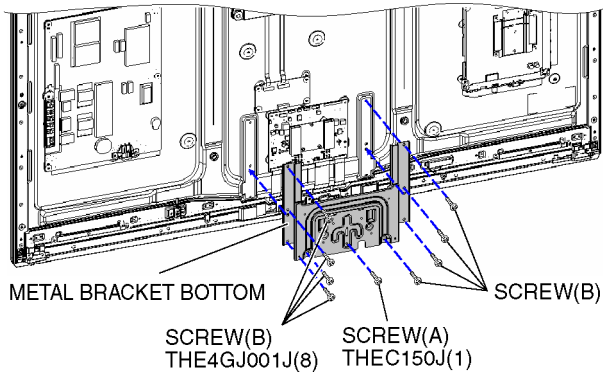
8.2.7. LD-Board

1. Remove the 4 screws.
2. Disconnect the connectors (LD1, LD2, LD3 and LD4).
3. Remove the LD-Board.

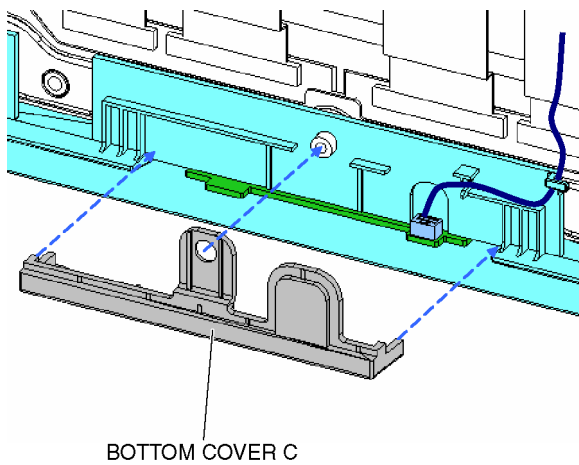


8.2.8. LP-Board

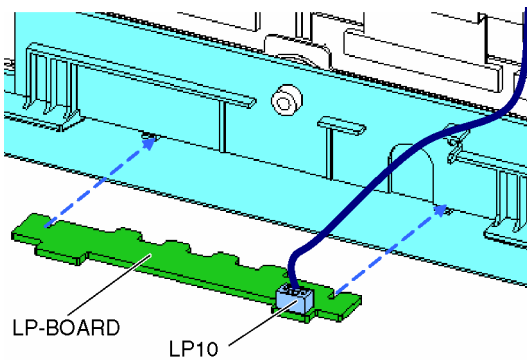
1. Remove the 1 screw (A).
2. Remove the 8 screws (B).
3. Remove the metal bracket bottom.



4. Remove the bottom cover C.

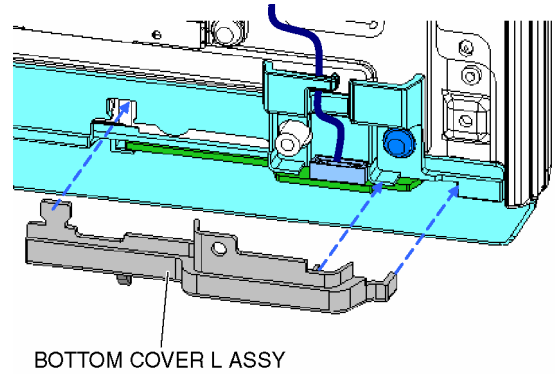


5. Disconnect the connector (LP10).
6. Remove the LP-Board.

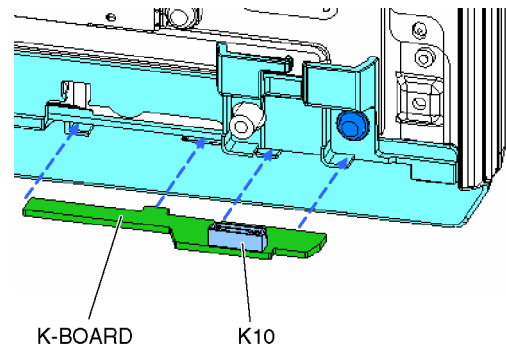


8.2.9. K-Board

1. Remove the bottom cover L assy.

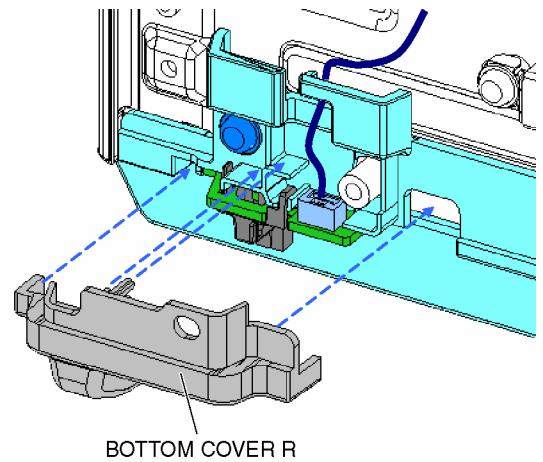


2. Disconnect the connector (K10).
3. Remove the K-Board.

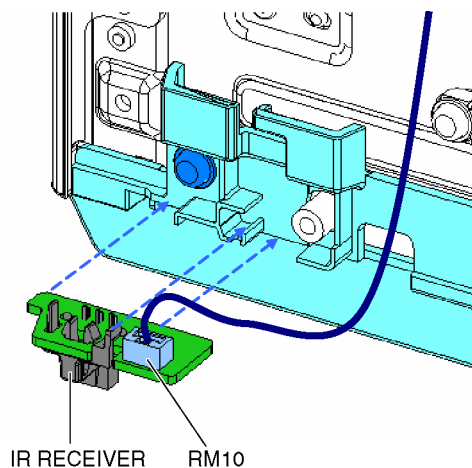


8.2.10. IR Receiver

1. Remove the bottom cover R.

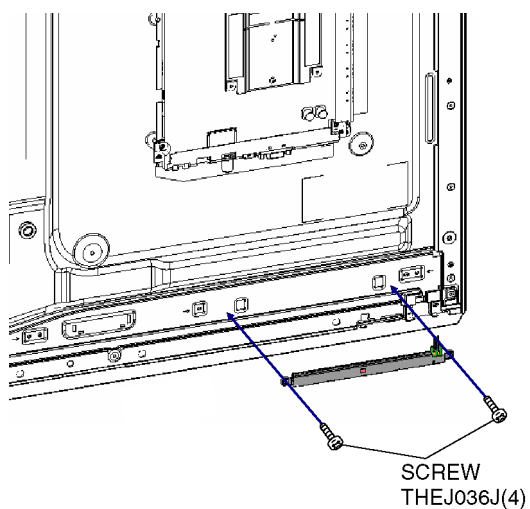
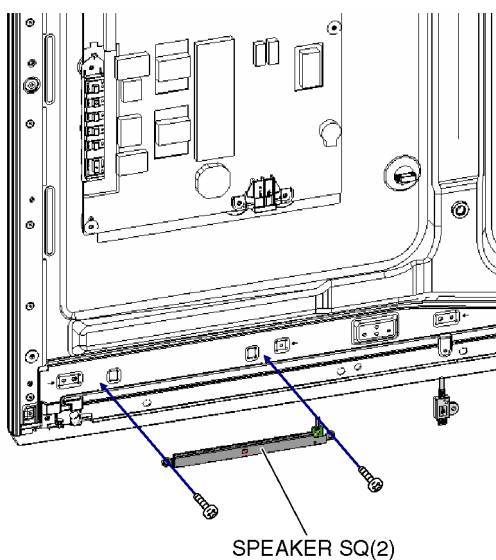


2. Disconnect the connector (RM10).
3. Remove the IR Receiver.



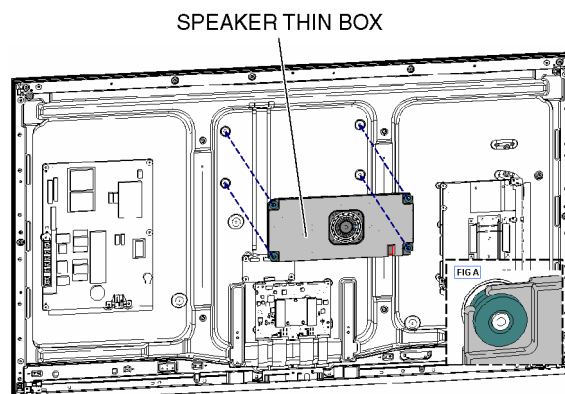
8.2.11. Speaker SQ

1. Remove the 4 screws.
2. Remove the 2 speaker SQs.



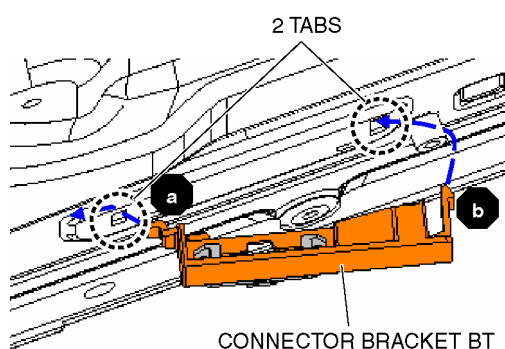
8.2.12. Speaker thin box

1. Remove the speaker thin box.



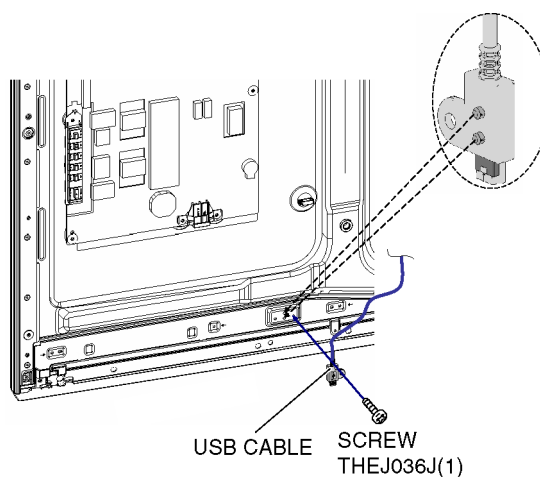
8.2.13. Connector bracket BT

1. Remove the 2 tabs and the connector bracket BT.



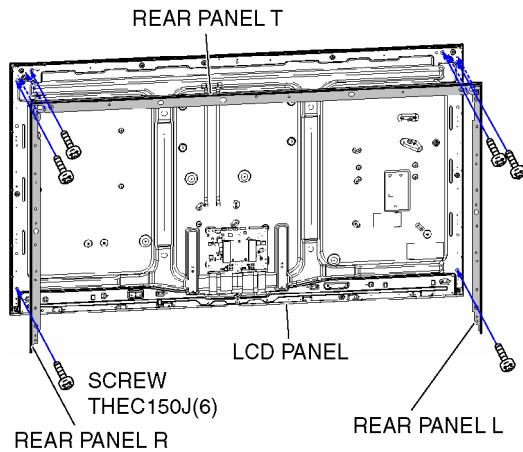
8.2.14. USB cable

1. Remove the 1 screw and USB cable.



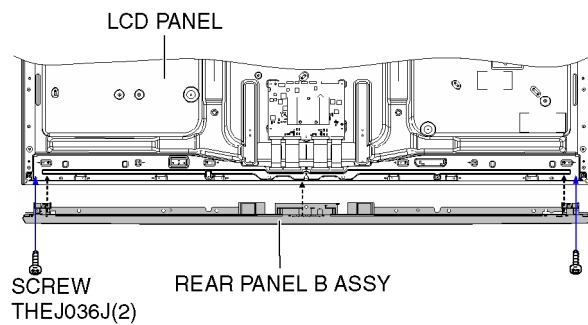
8.2.15. Rear Panel T/L/R assy

1. Remove the 6 screws and Rear Panel T/L/R assy.

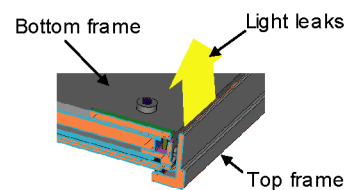
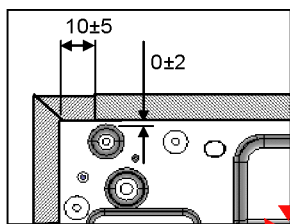
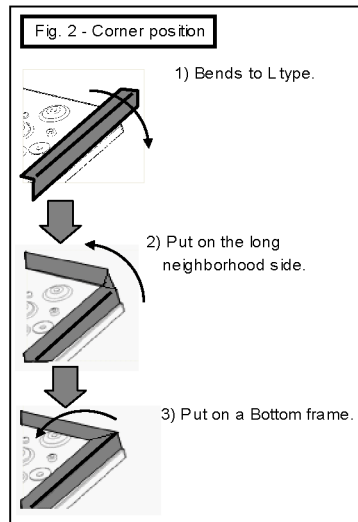
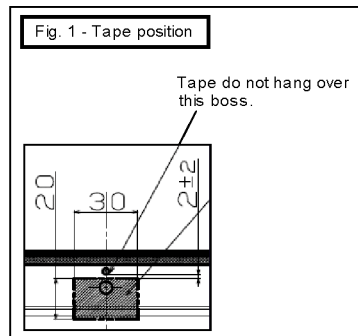
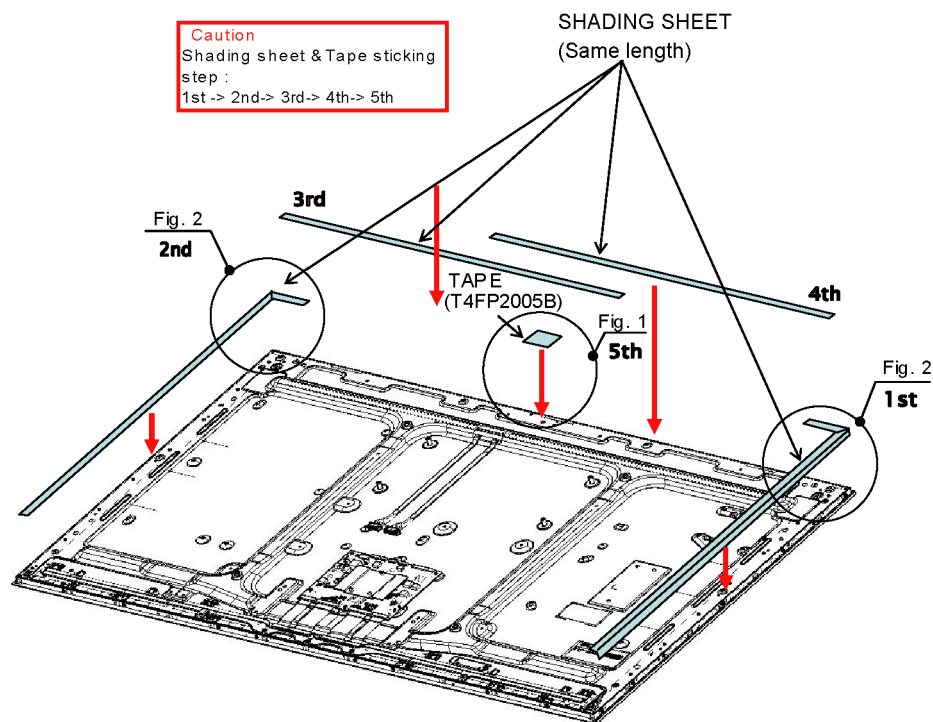


8.2.16. Rear Panel B assy and LCD Panel

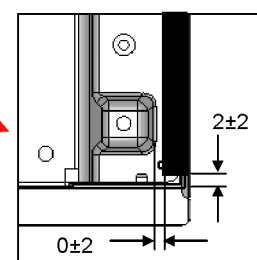
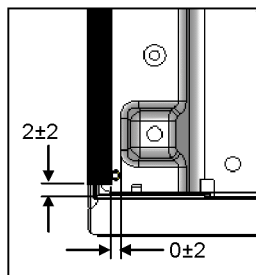
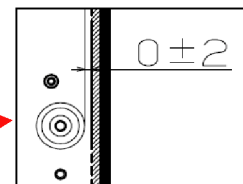
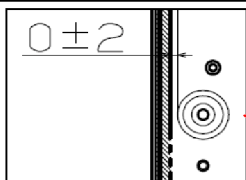
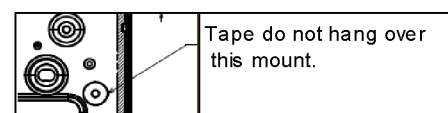
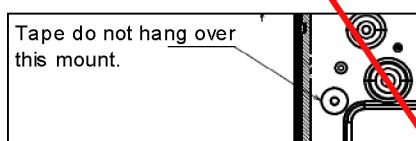
1. Remove the 2 screws.
2. Remove the Rear Panel B assy and the LCD Panel.

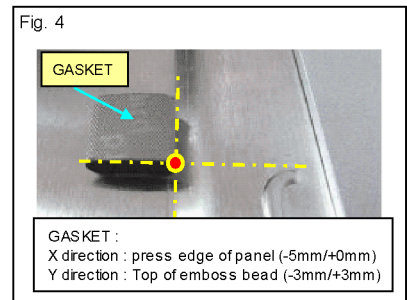
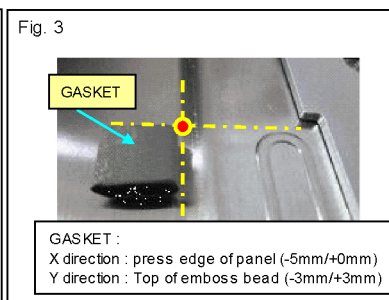
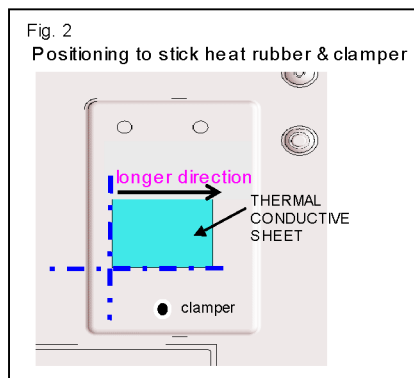
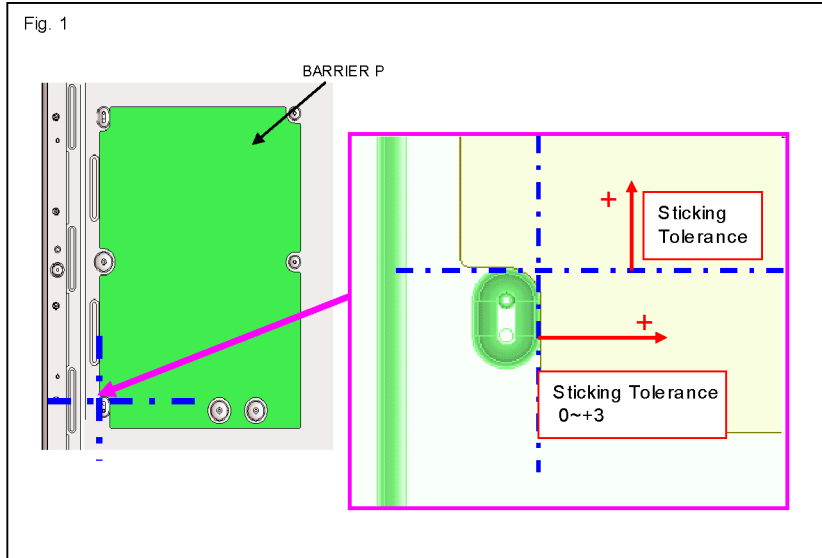
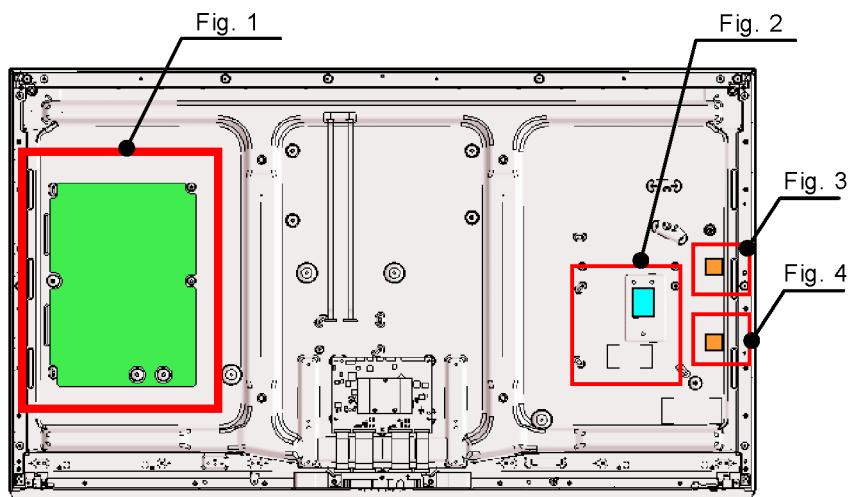


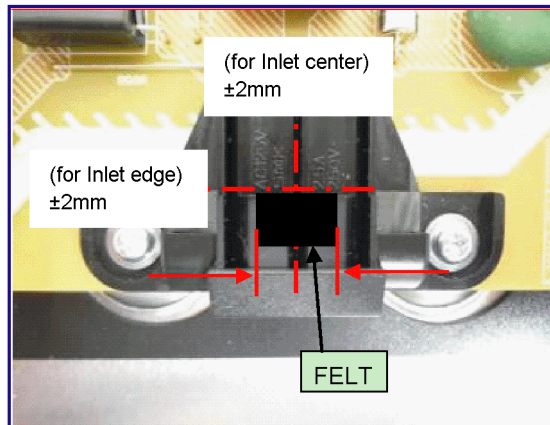
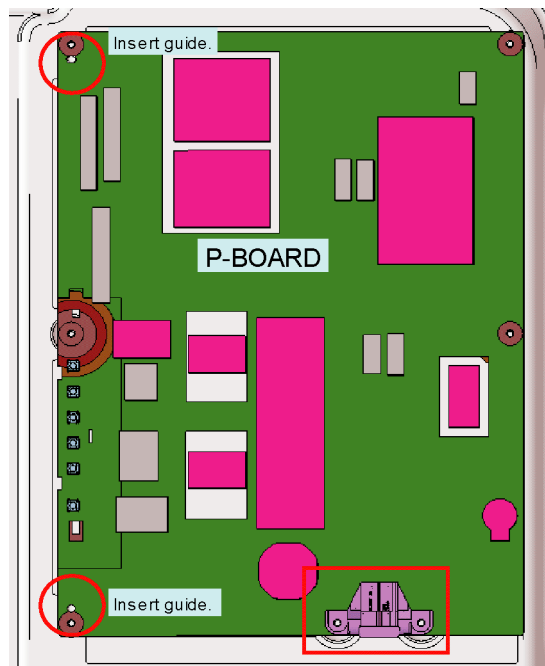
8.2.17. EMI processing



The crevice from which light leaks should just be closed except the mount neighborhood.







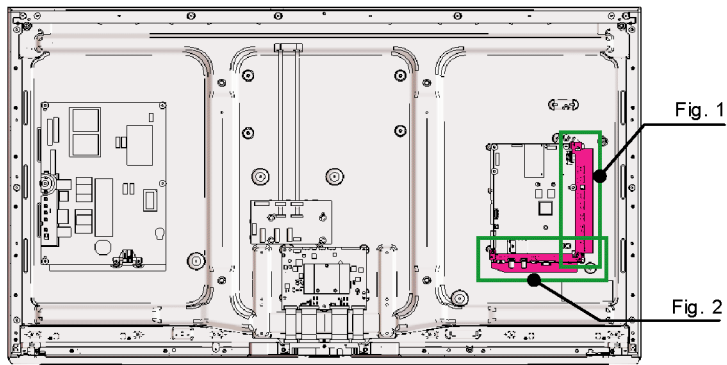
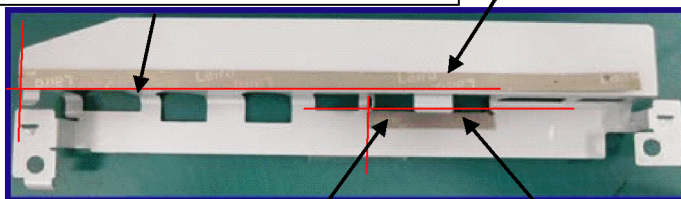


Fig. 2

GASKET :

X direction : left edge of bracket(-5mm/+5mm)

Y direction : bracket bending line(-0mm/+5mm)



REAR SIDE

GASKET

GASKET :

X direction : left edge of bracket hole(-5mm/+5mm)

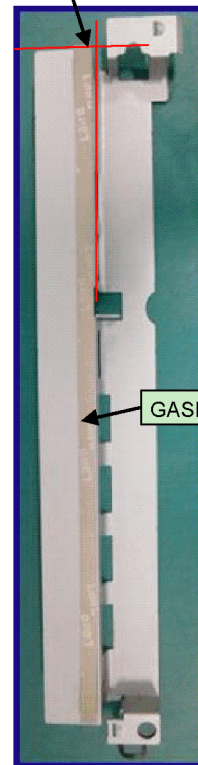
Y direction : bottom edge of bracket hole(-5mm/+0mm)

Fig. 1

GASKET :

X direction : bracket bending line(-5mm/+0mm)

Y direction : top edge of bracket (-5mm/+5mm)



REAR SIDE

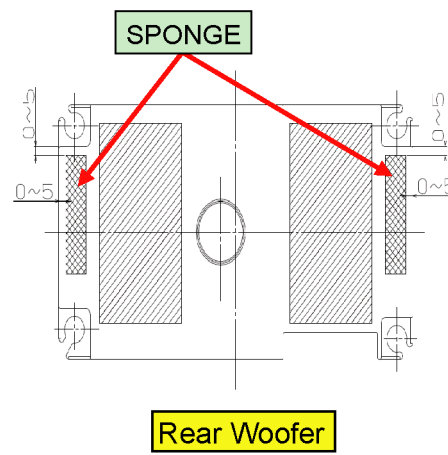
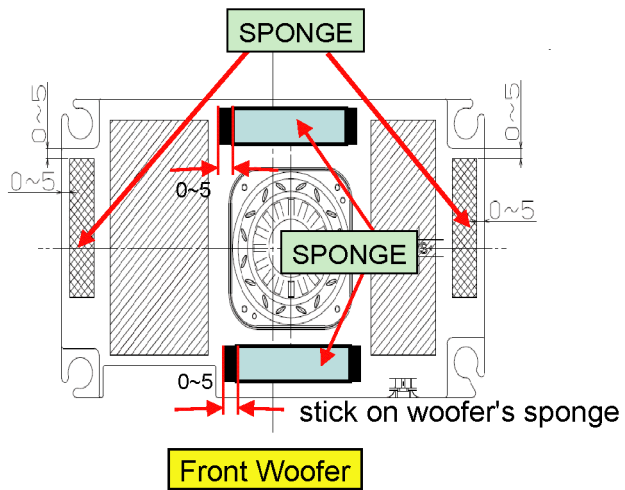
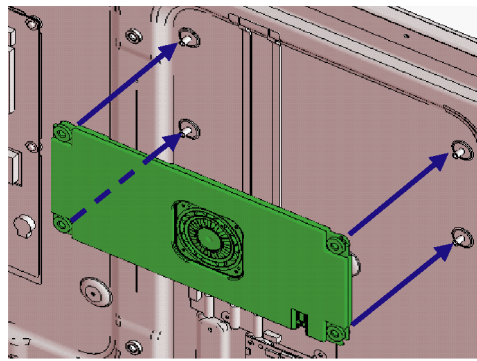


Fig. 1

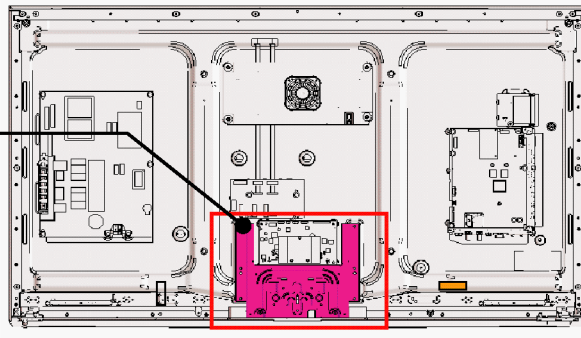
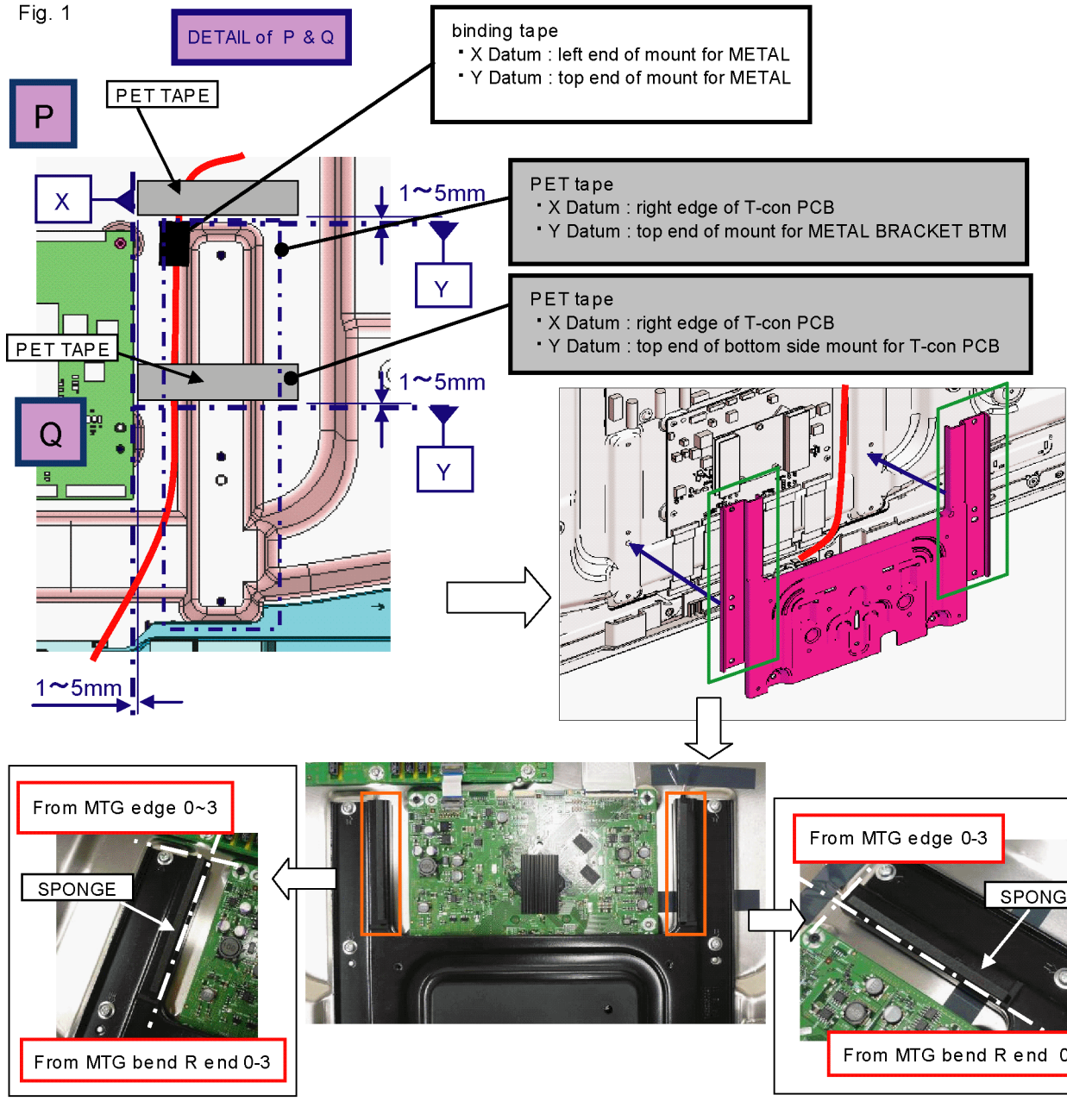
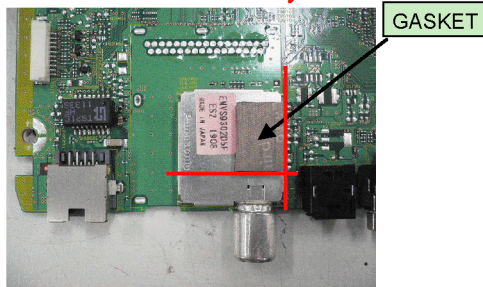
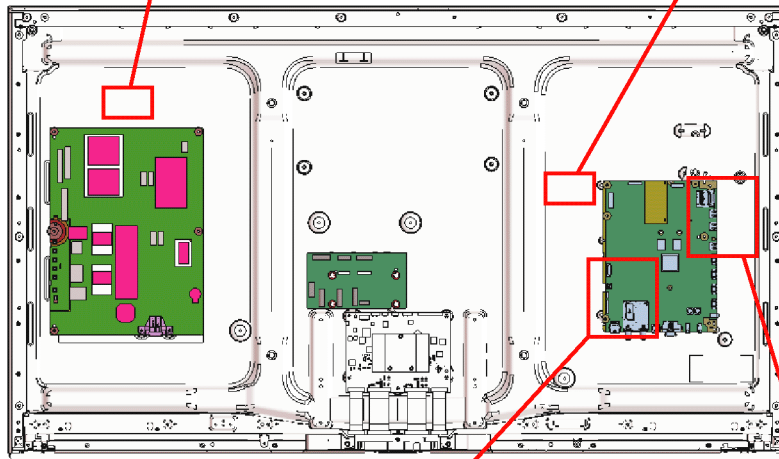
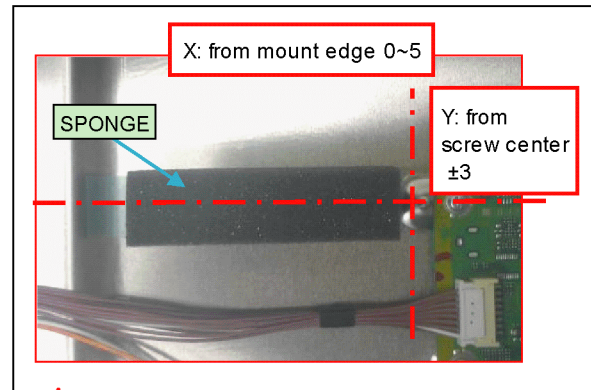
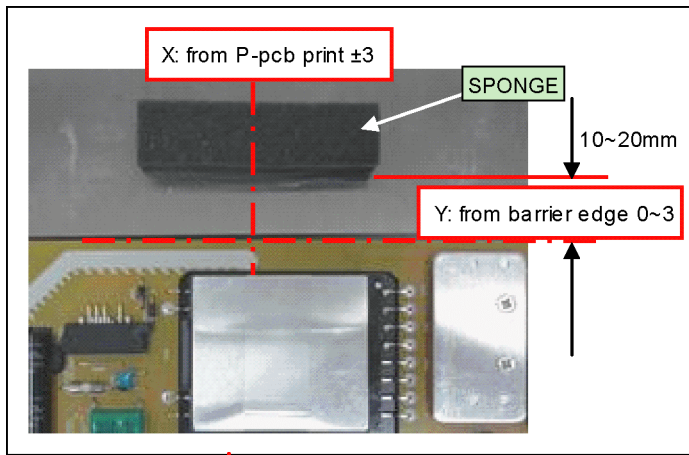
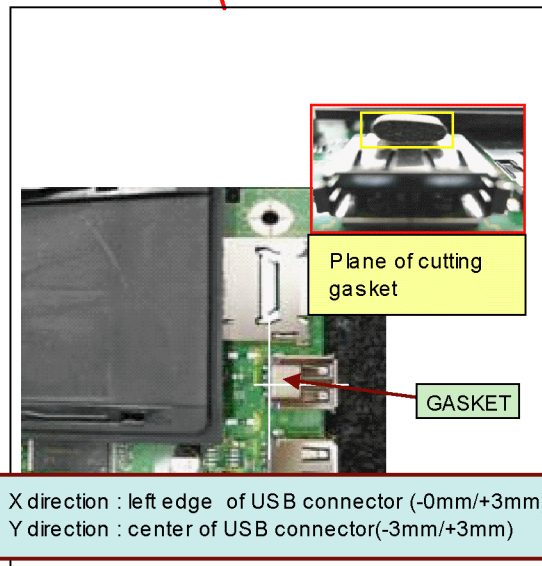


Fig. 1





X direction : right edge of tuner (-3mm/+0mm)
Y direction : end of 'Panasonic' logo (-3mm/+0mm)



X direction : left edge of USB connector (-0mm/+3mm)
Y direction : center of USB connector (-3mm/+3mm)

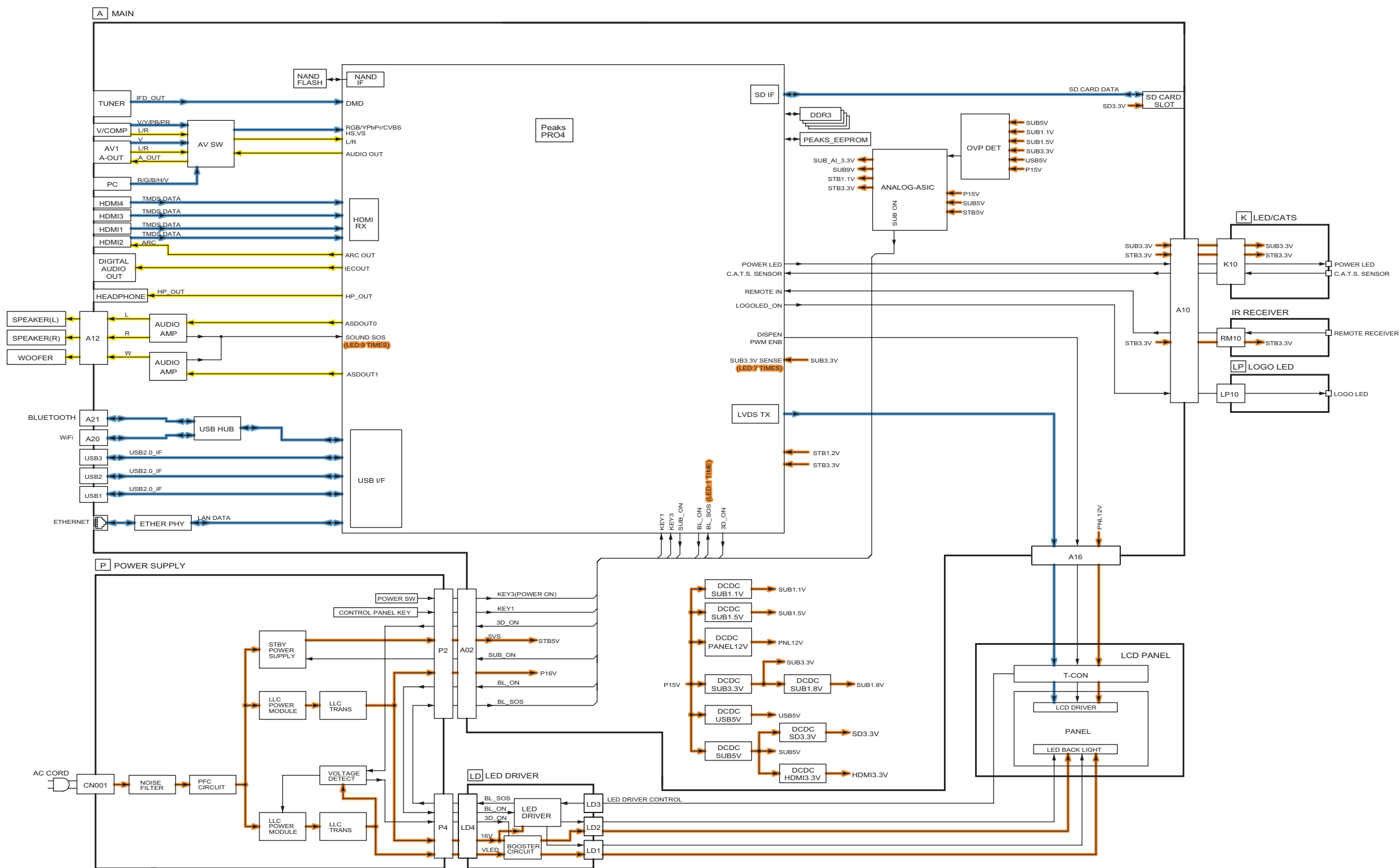
9 Measurements and Adjustments

9.1. Voltage chart of A-board

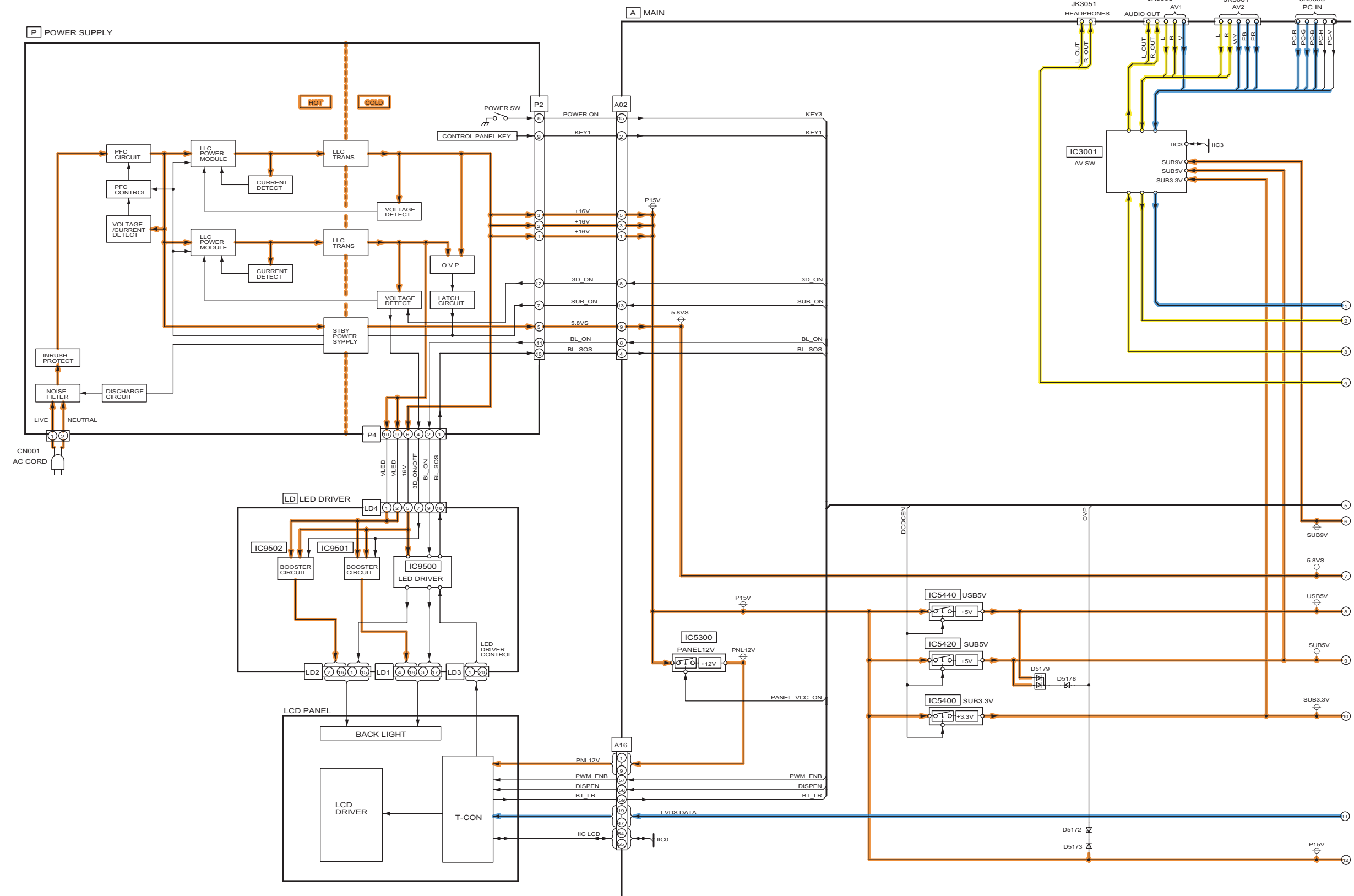
VOLTAGE	TEST POINT	SPECIFICATION
PANEL12V	TP4004/TP4005	11.5V - 12.9V
USB_5V	TP5440	4.94V - 5.40V
SUB5V	TP5420	4.80V - 5.25V
SUB3.3V	TP5400	3.17V - 3.43V
SUB1.8V	TP8700	1.7V - 1.9V
SUB1.5V	TP8101	1.435V - 1.585V
SUB1.1V	TP8100	1.10V - 1.22V

10 Block Diagram

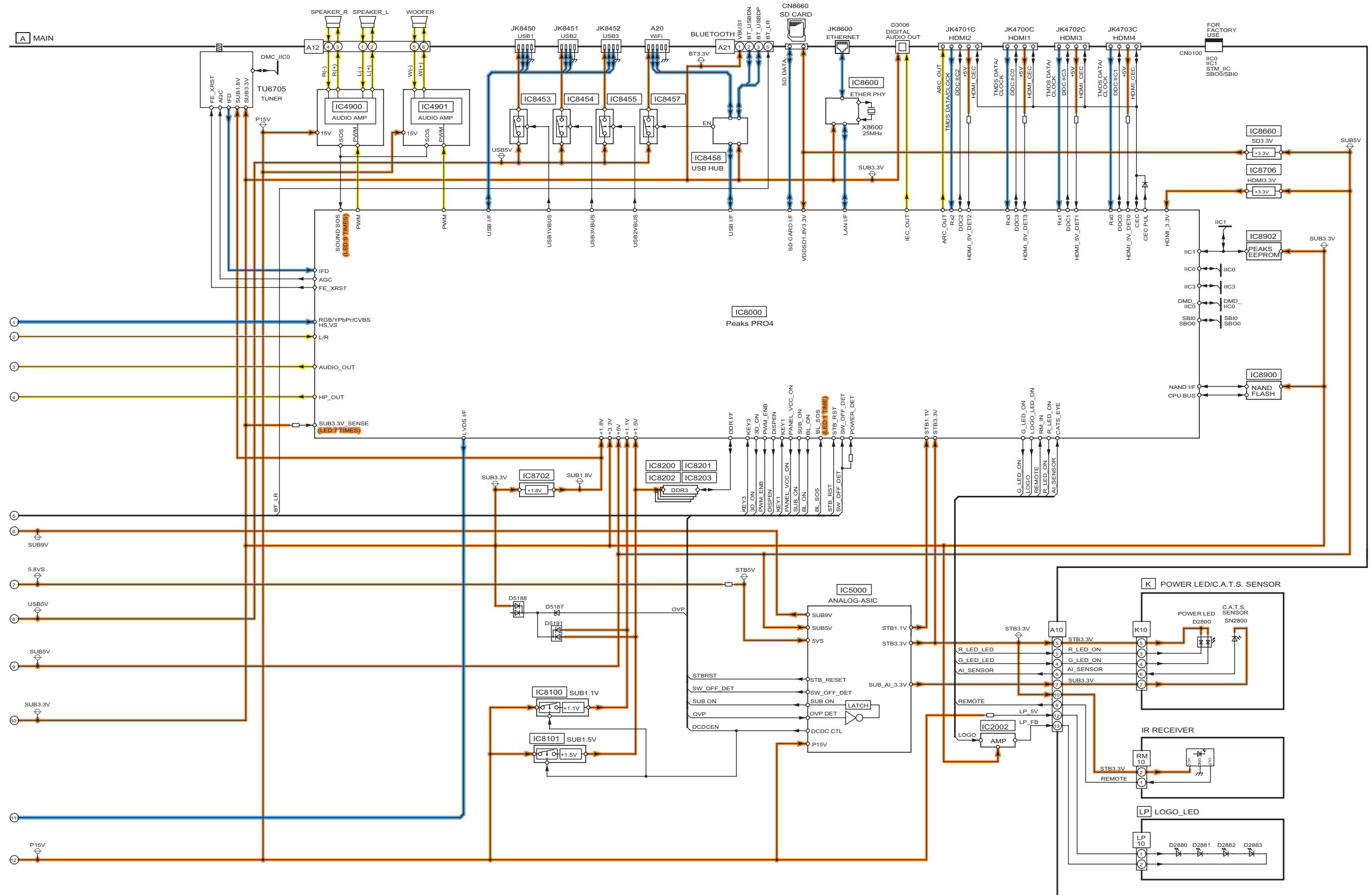
10.1. Main Block Diagram



10.2. Block (1/2) Diagram



10.3. Block (2/2) Diagram



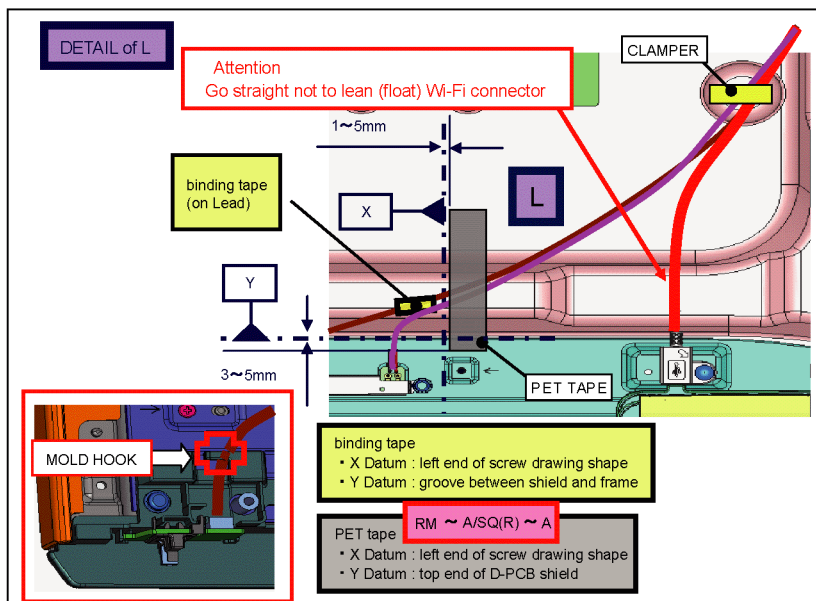
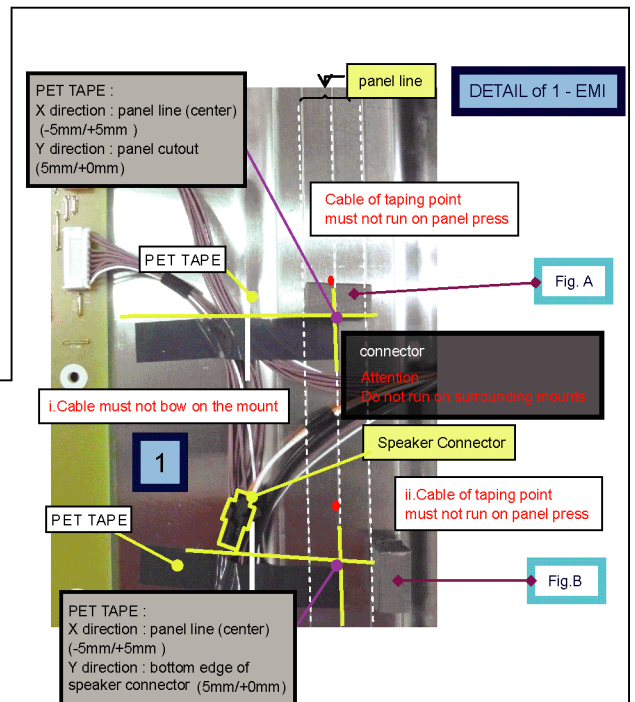
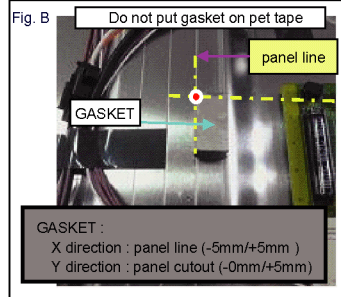
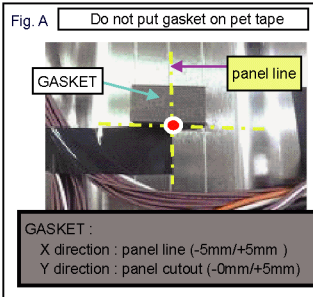
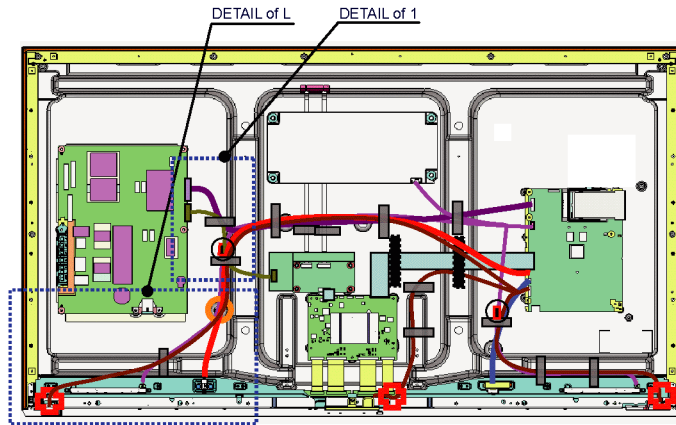
11 Wiring Connection Diagram

11.1. Caution statement.

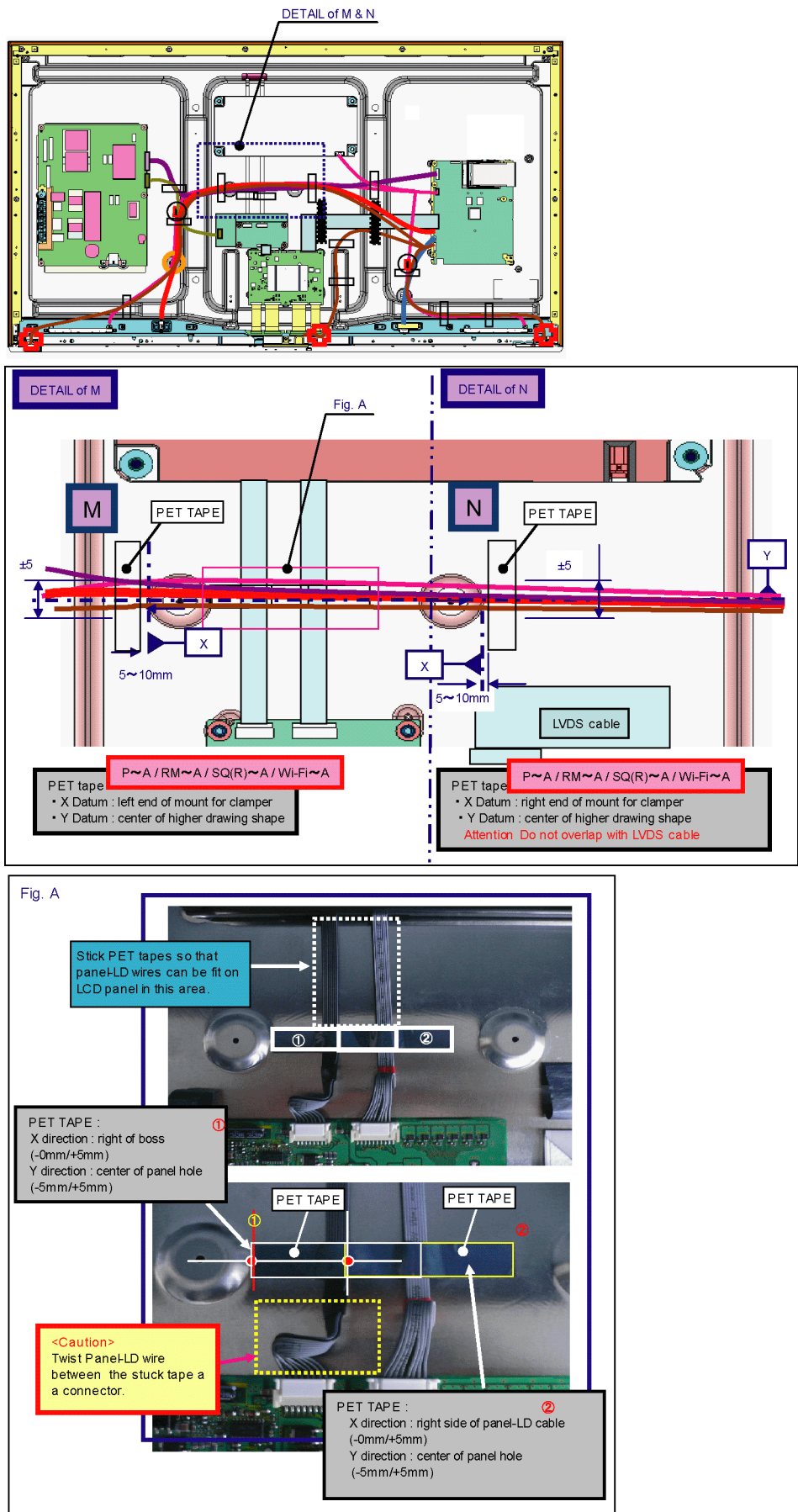
Caution:

Please confirm that all flexible cables are assembled correctly.
Also make sure that they are locked in the connectors.
Verify by giving the flexible cables a very slight pull.

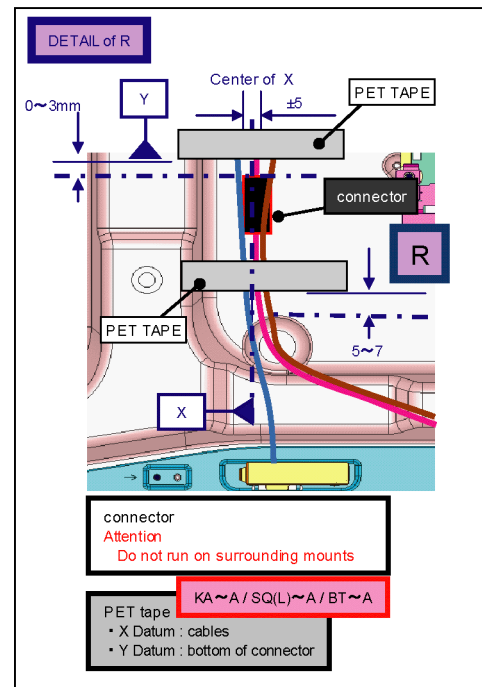
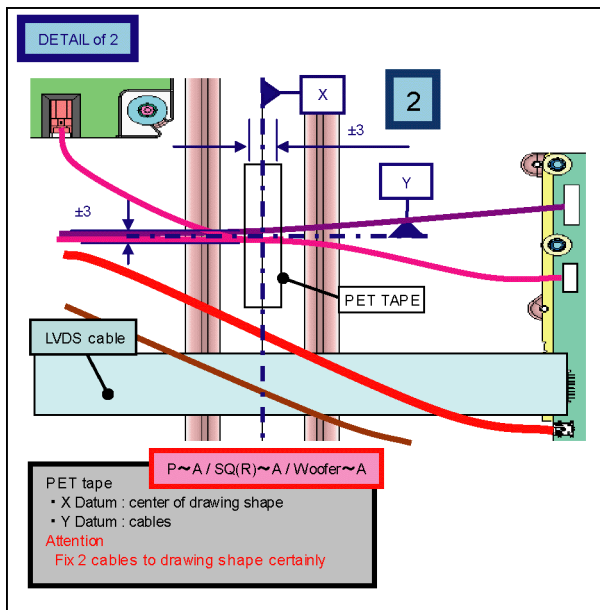
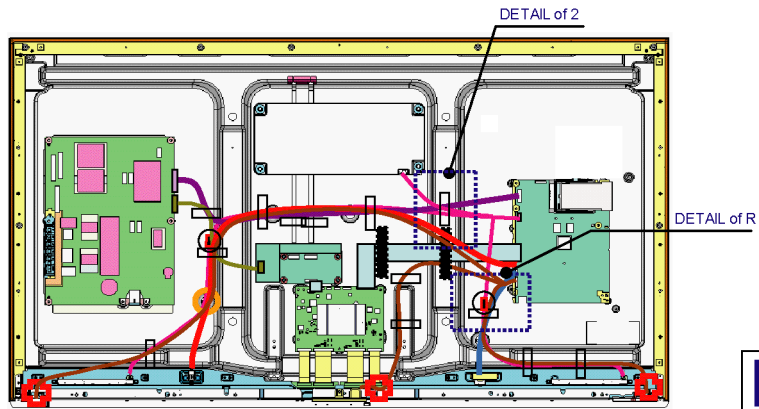
11.2. Wiring 1



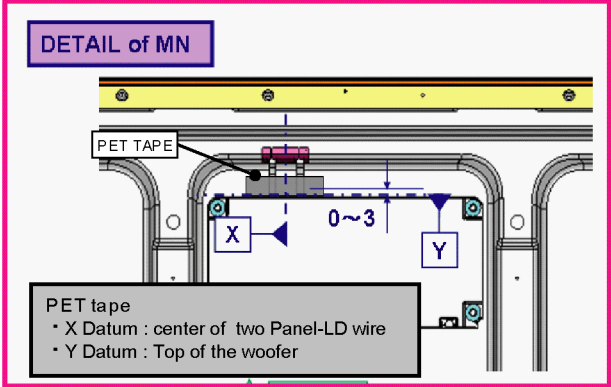
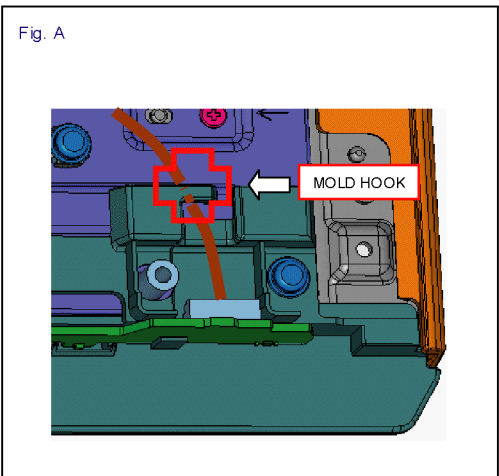
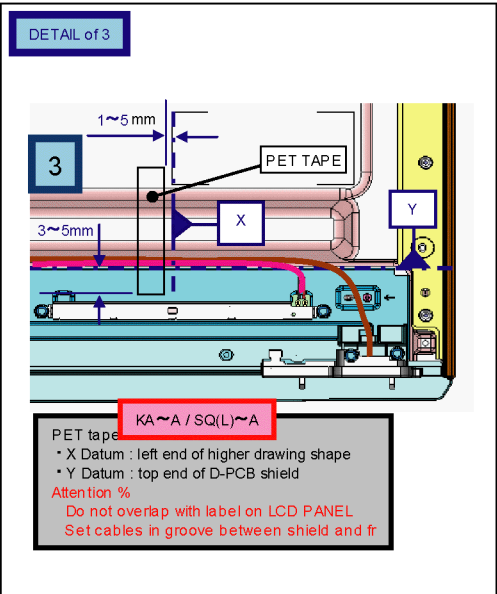
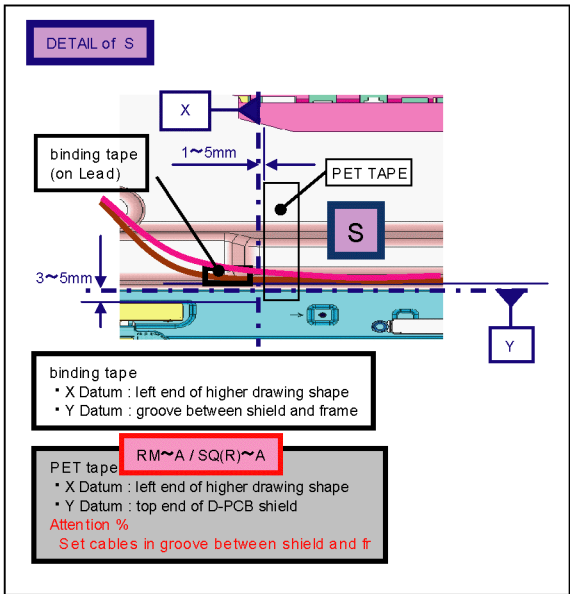
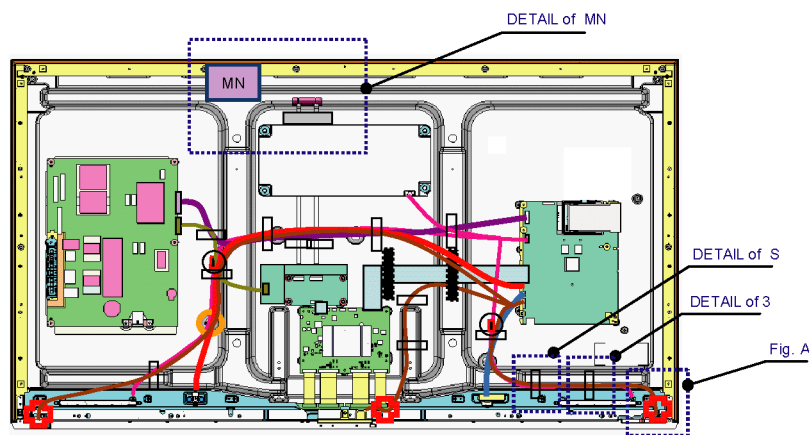
11.3. Wiring 2



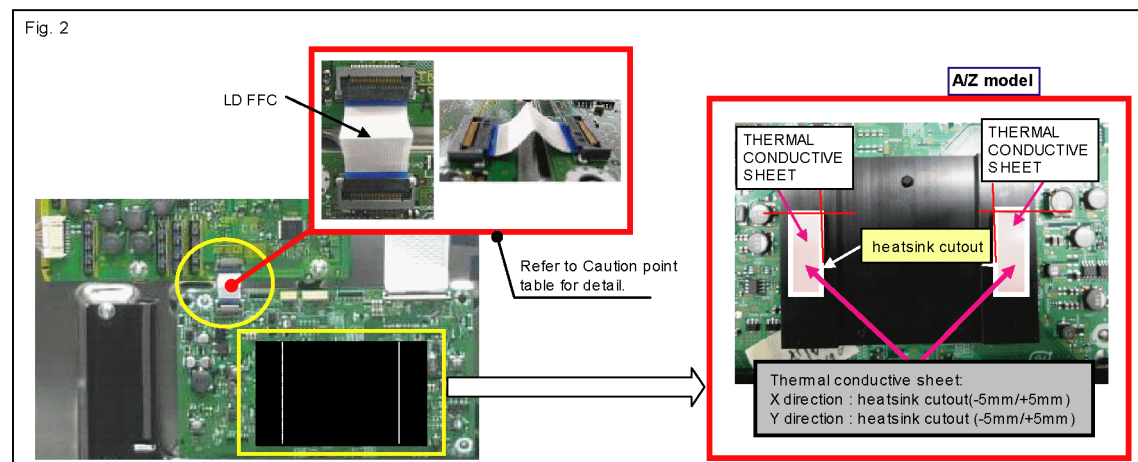
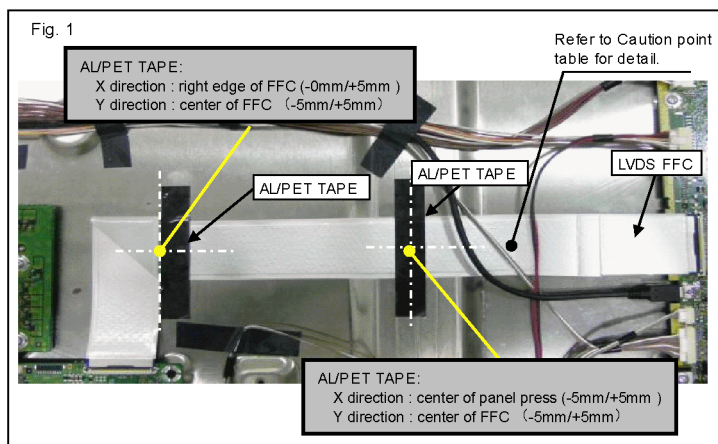
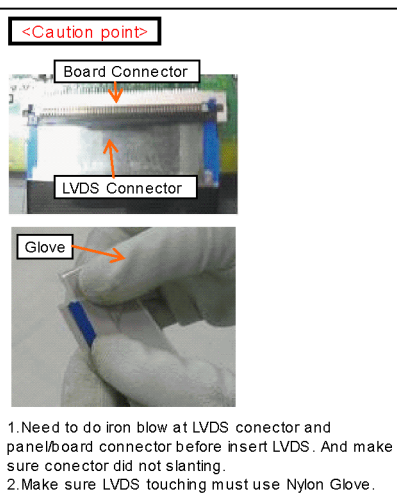
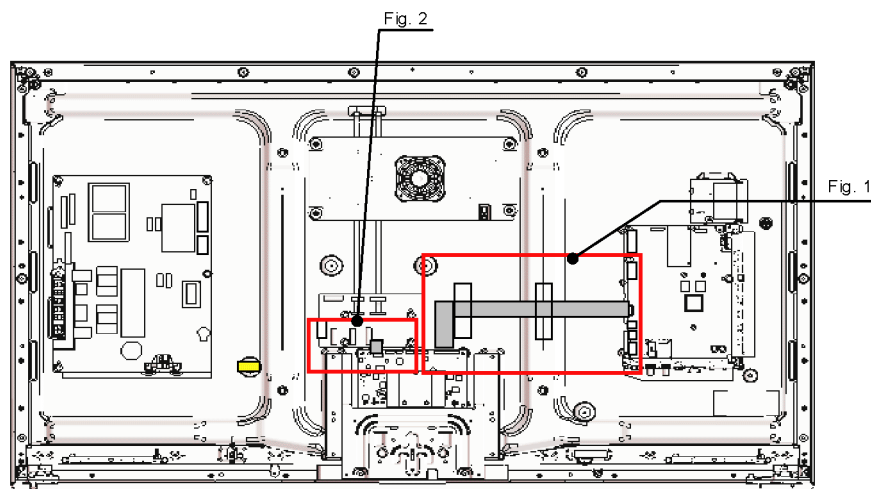
11.4. Wiring 3



11.5. Wiring 4



11.6. Wiring 5



12 Schematic Diagram

12.1. Schematic Diagram Note

Notes:

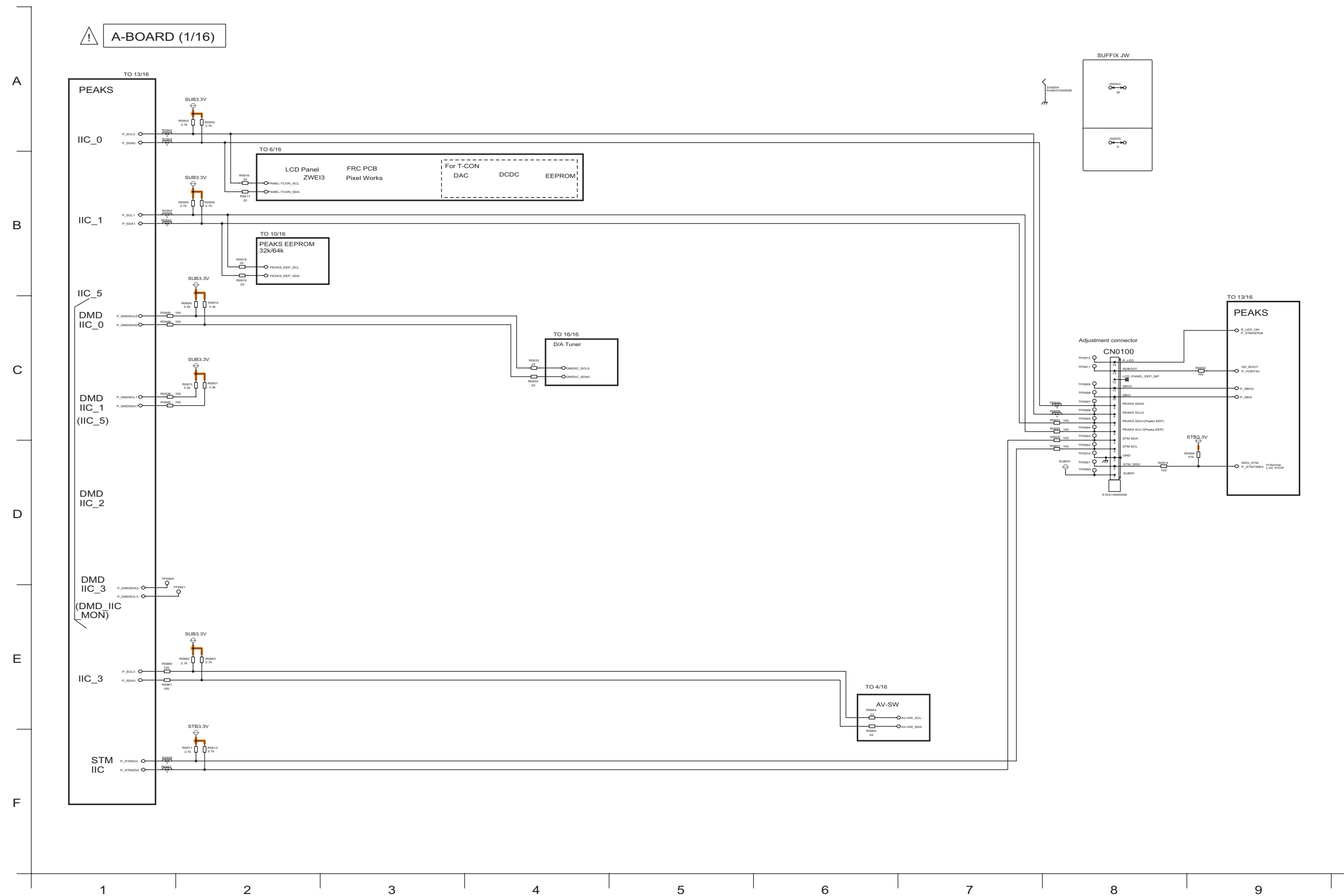
- 1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
- 2. **Capacitor**
Unit of capacitance is μ F, unless otherwise noted.
- 3. Coil
Unit of inductance is H, unless otherwise noted.
- 4. Test Point
 : Test Point position
- 5. Earth Symbol
 : Chassis Earth (Cold)  : Line Earth (Hot)
- 6. Voltage Measurement
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:
Power Source AC 110-240V, 50/60Hz
Receiving Signal Colour Bar signal (RF)
All customer's controls Maximum positions
- 7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
- 8. Indicates the major signal flow. : Video ➡ Audio ⇄
- 9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Notice: Use the parts number indicated on the Replacement parts List.

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.

12.2. A-Board (1/16) Schematic Diagram

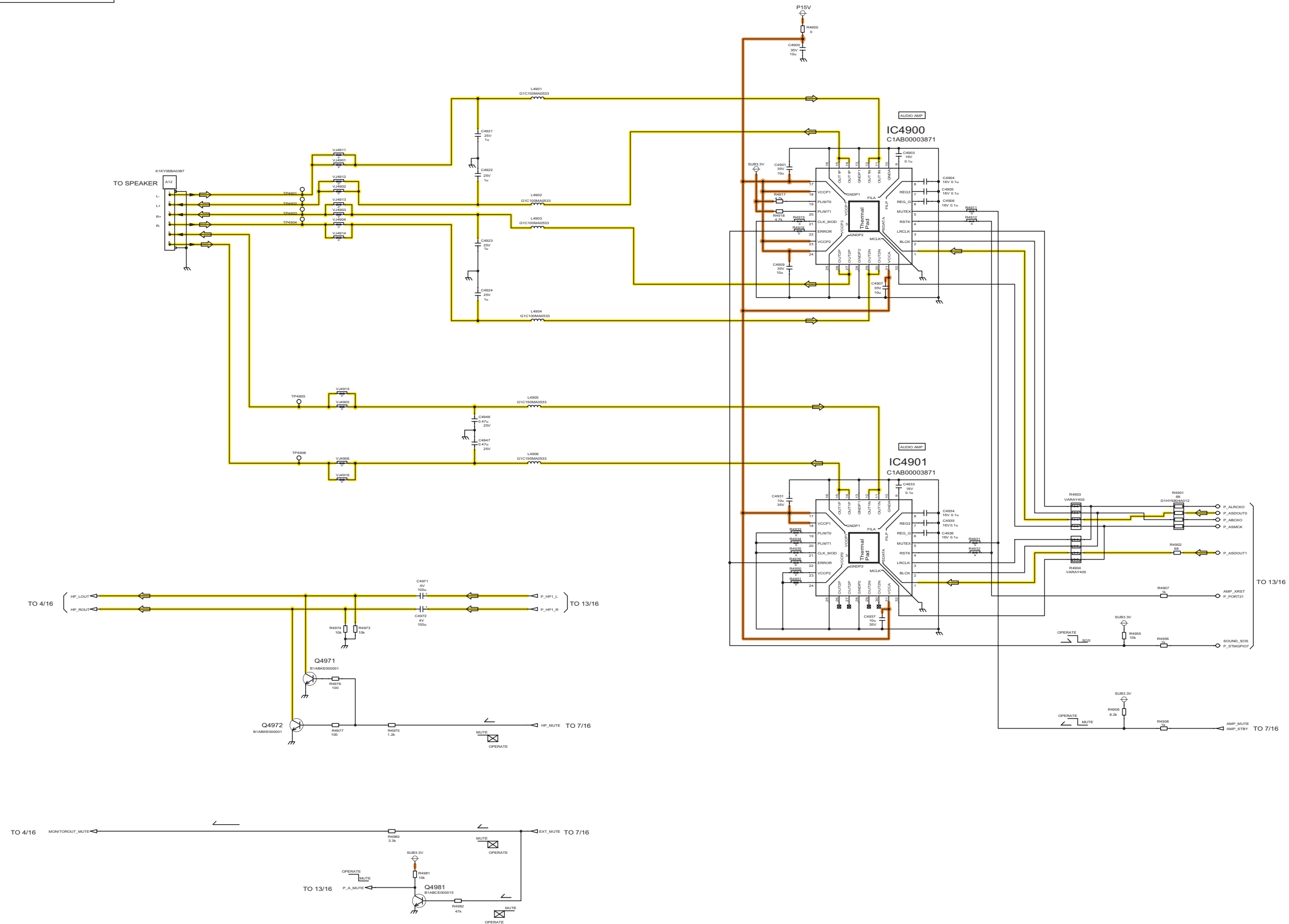


 A-BOARD (2/16)



12.4. A-Board (3/16) Schematic Diagram

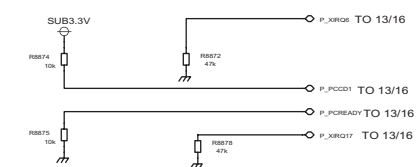
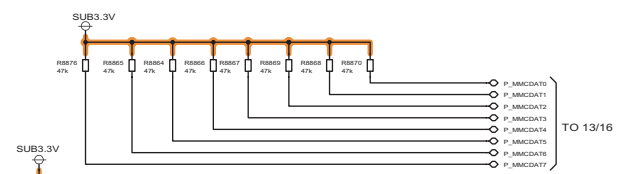
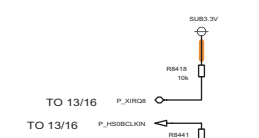
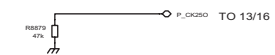
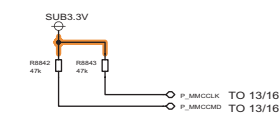
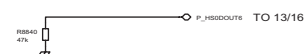
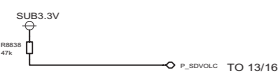
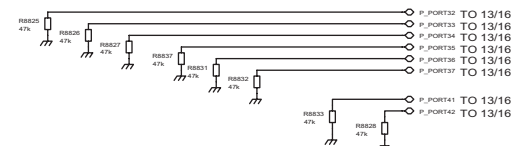
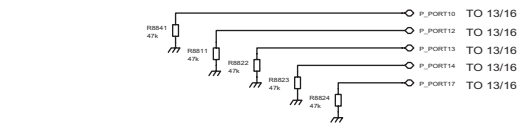
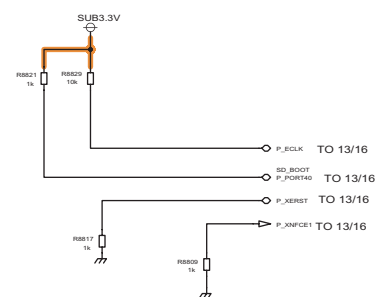
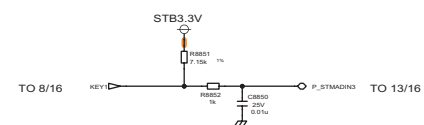
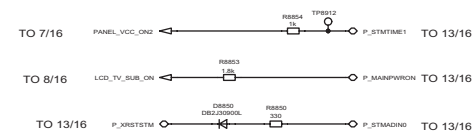
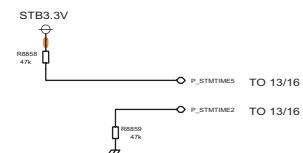
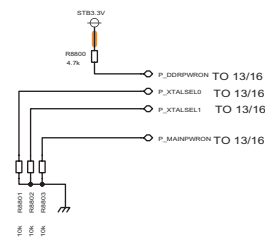
 A-BOARD (3/16)



 A-BOARD (4/16)

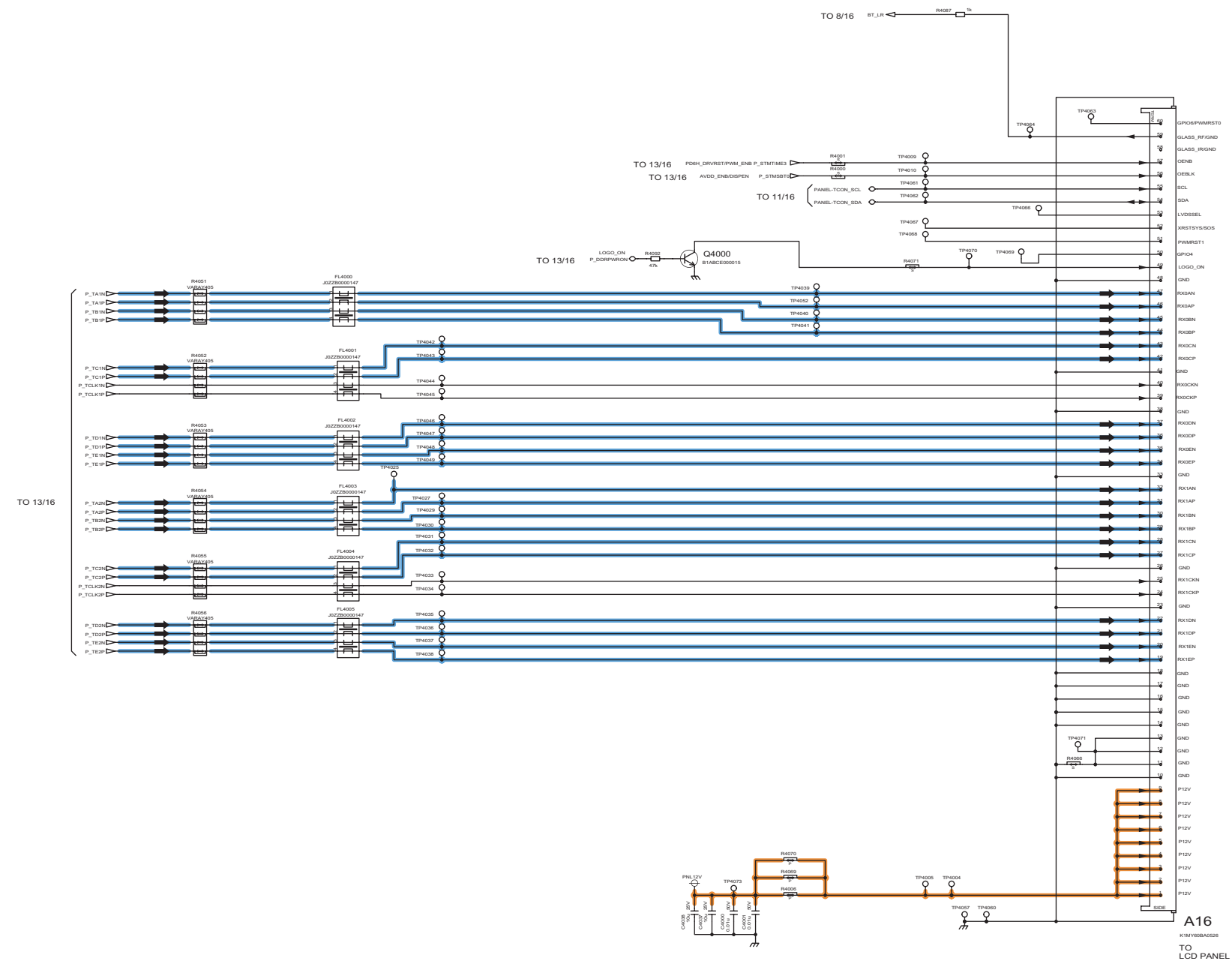


12.6. A-Board (5/16) Schematic Diagram

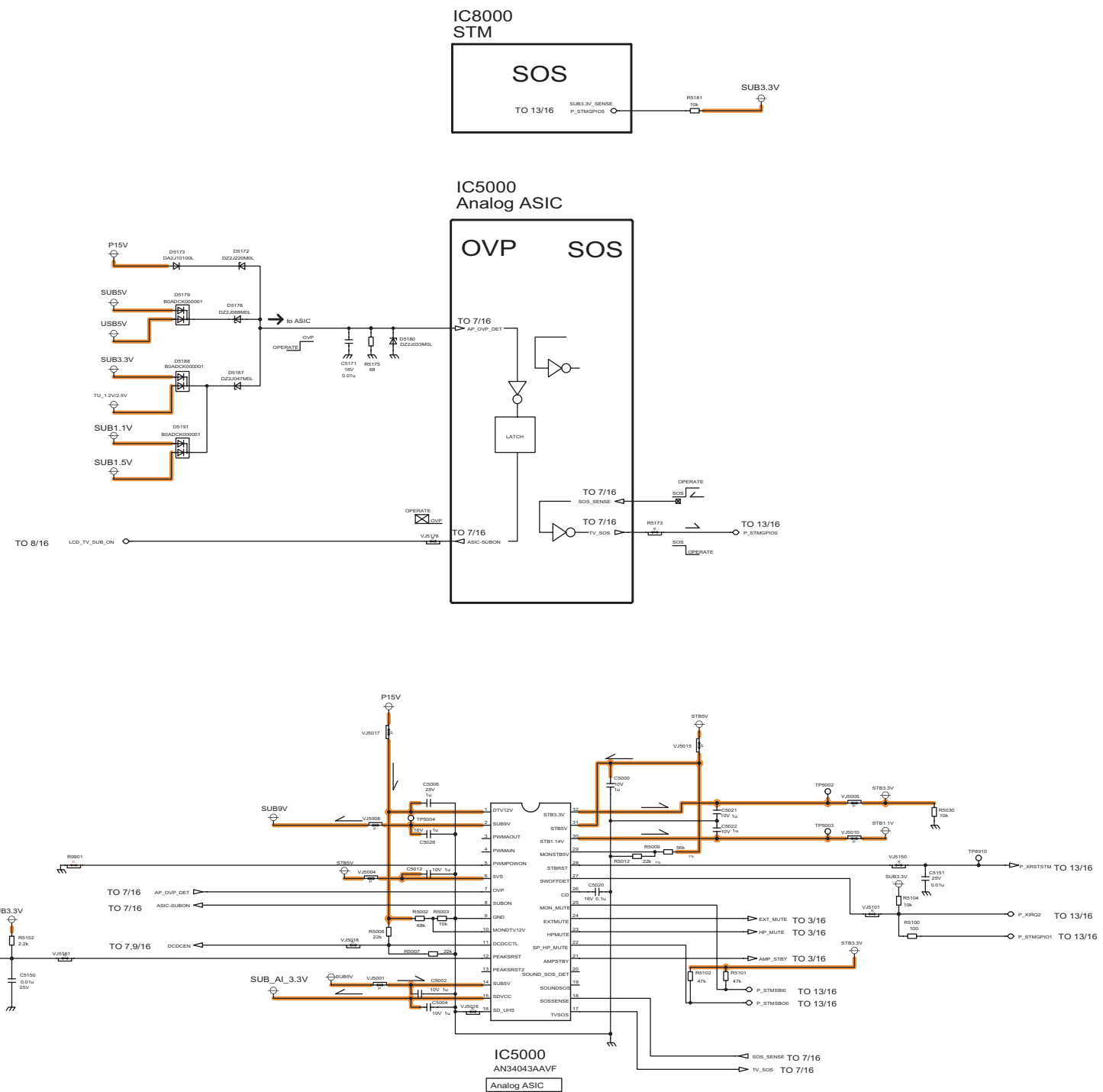
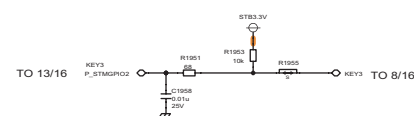
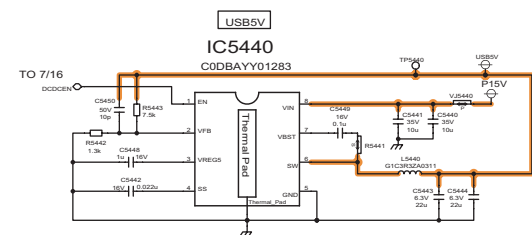
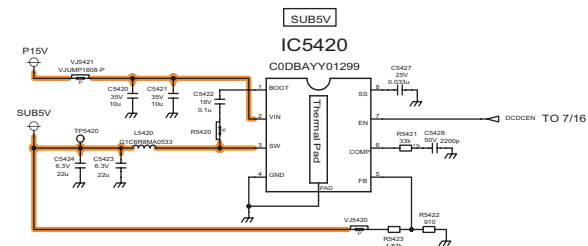
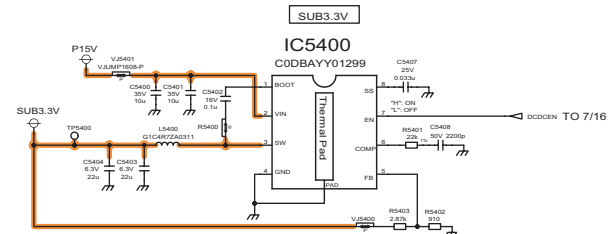
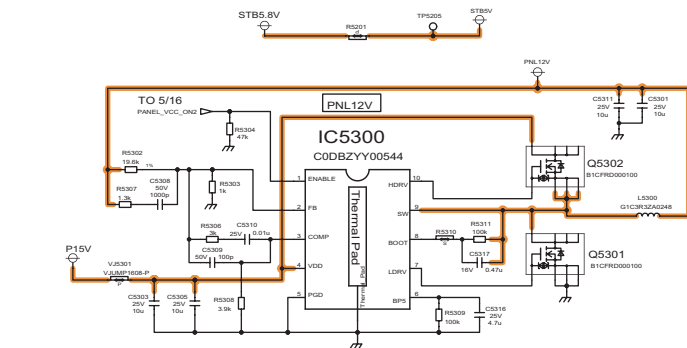


12.7. A-Board (6/16) Schematic Diagram

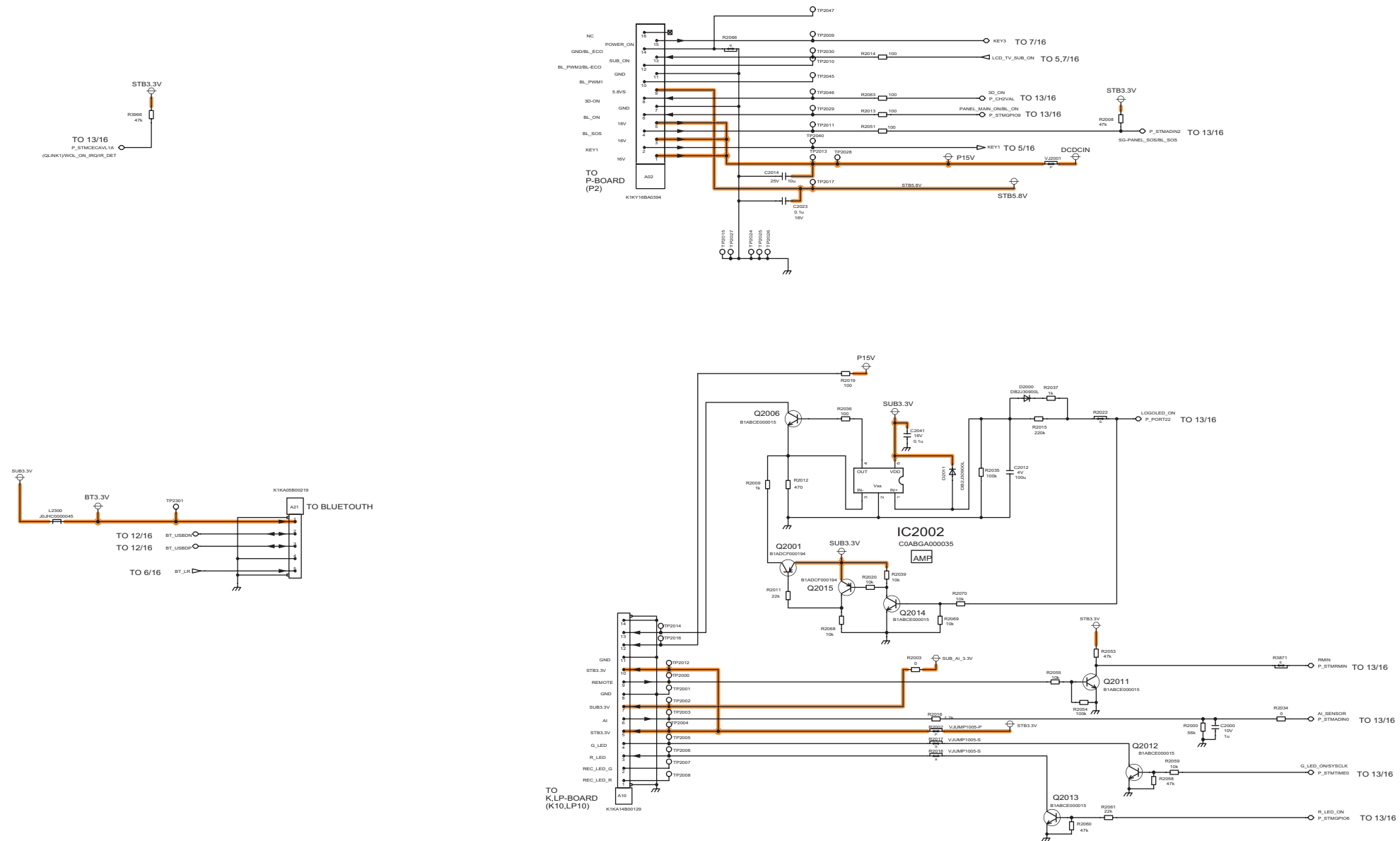
 A-BOARD (6/16)



12.8. A-Board (7/16) Schematic Diagram

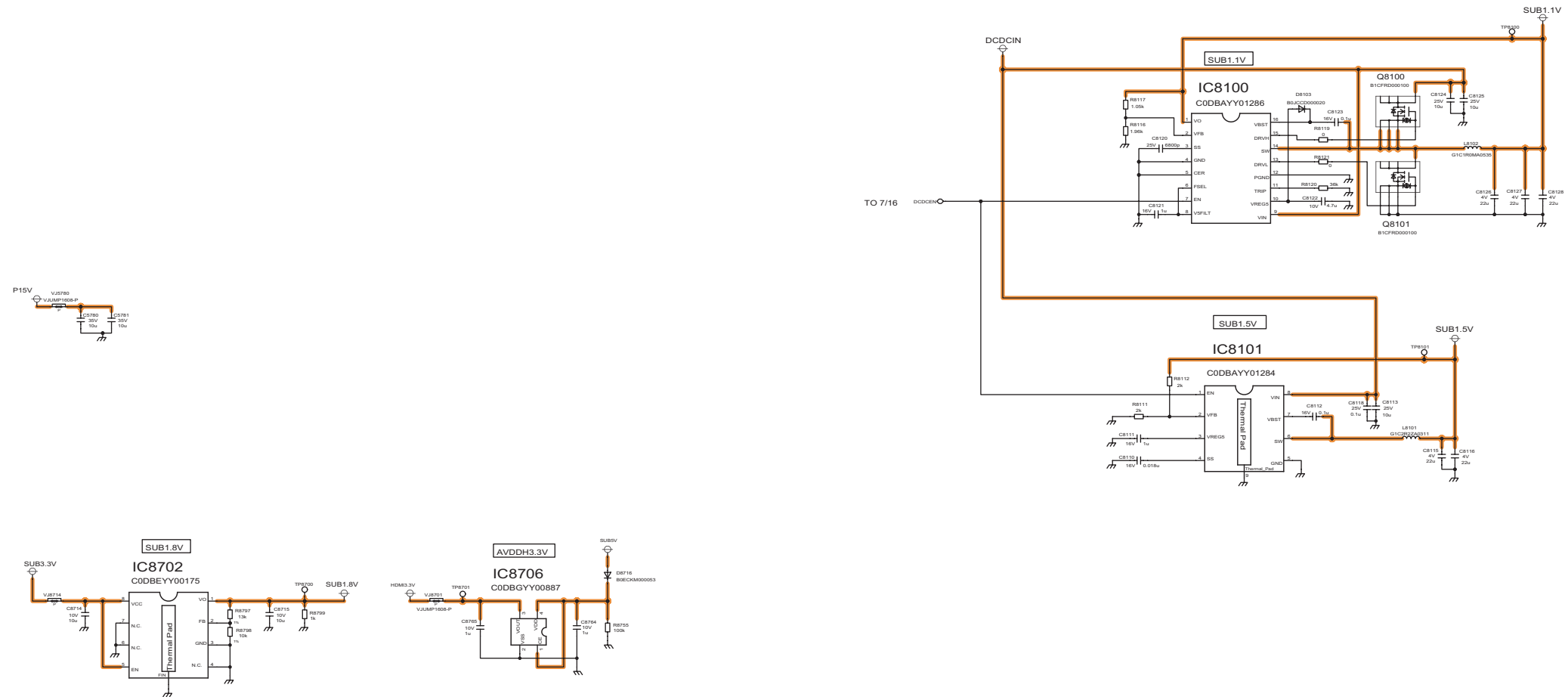


12.9. A-Board (8/16) Schematic Diagram



12.10. A-Board (9/16) Schematic Diagram

A-BOARD (9/16)



73

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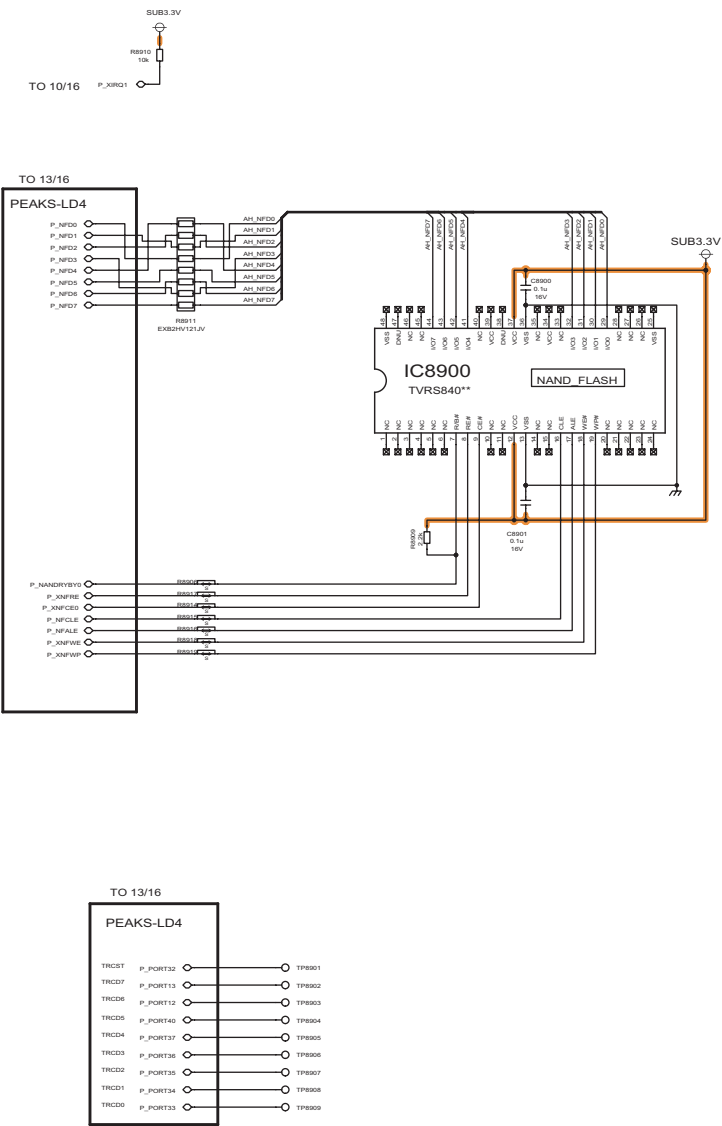
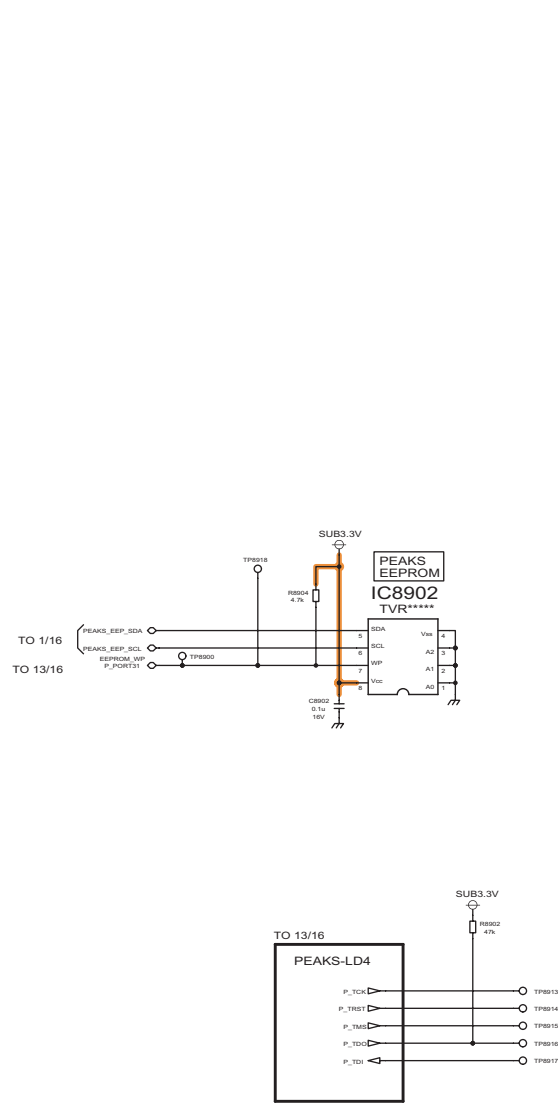
79

80

81

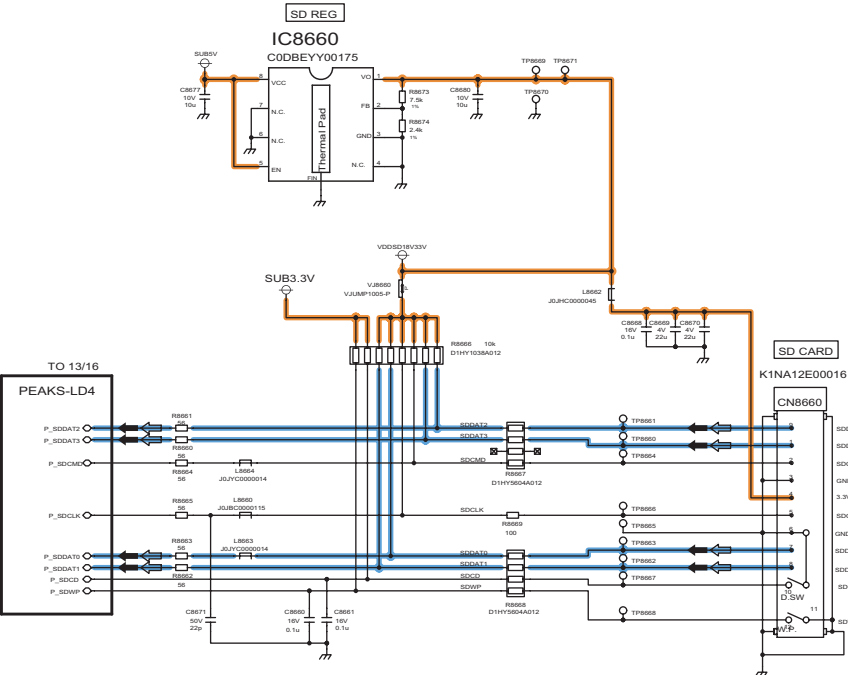
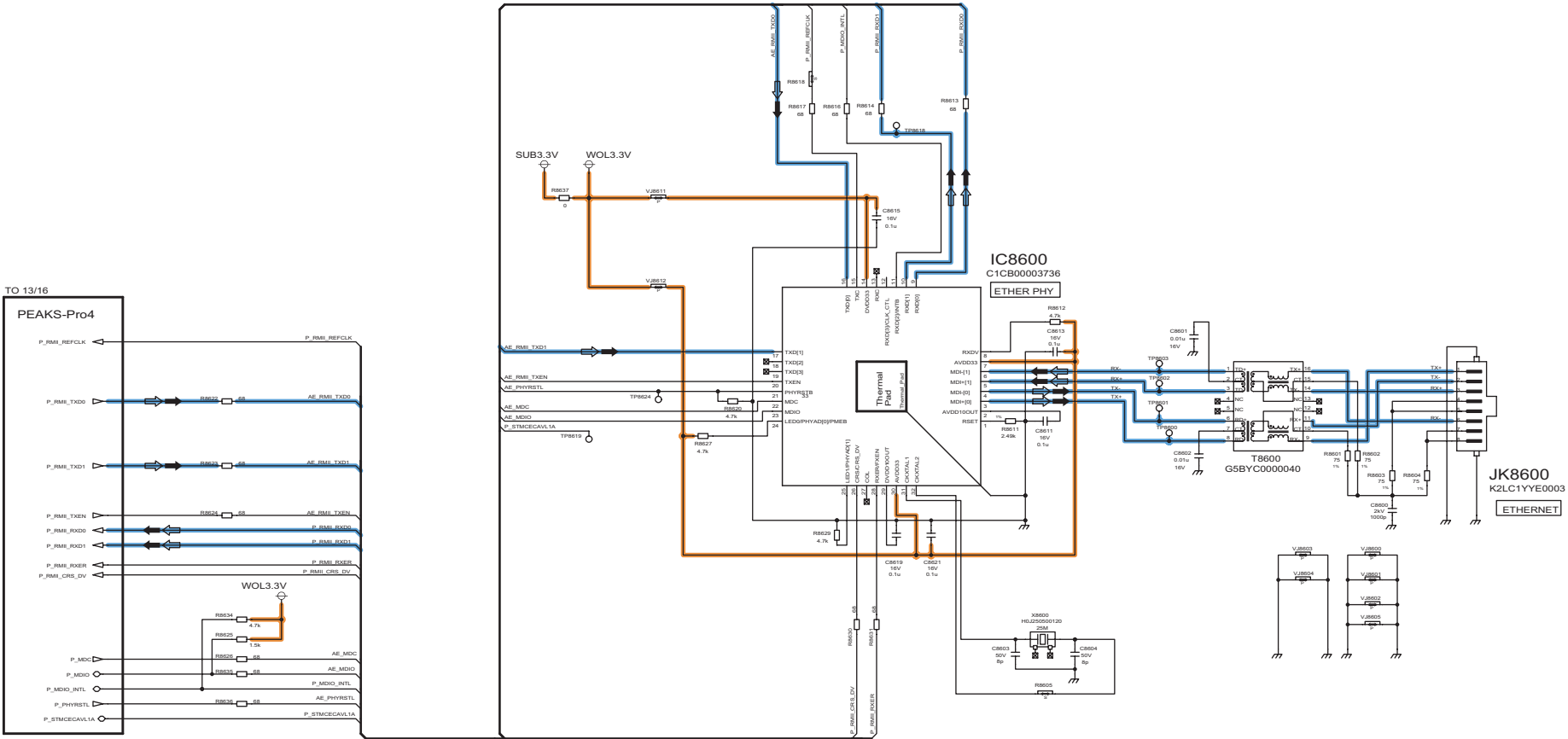
12.11. A-Board (10/16) Schematic Diagram

! A-BOARD (10/16)

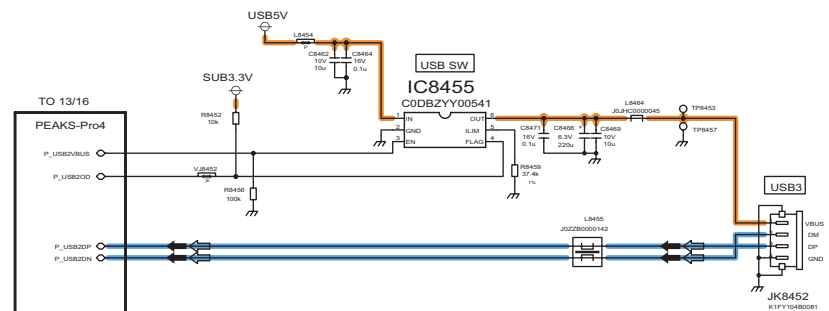
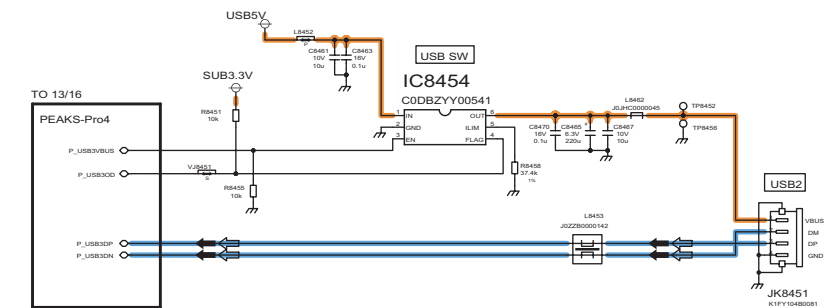
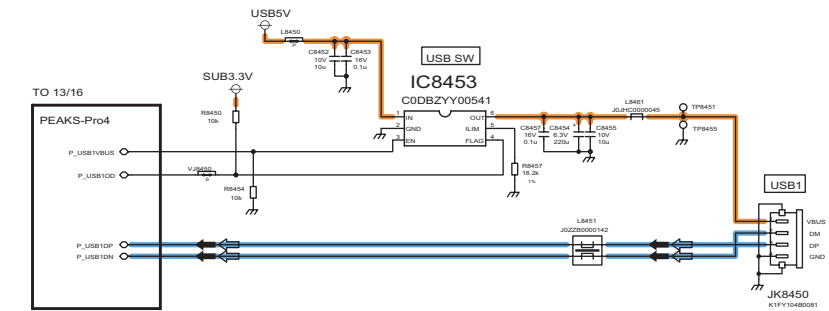
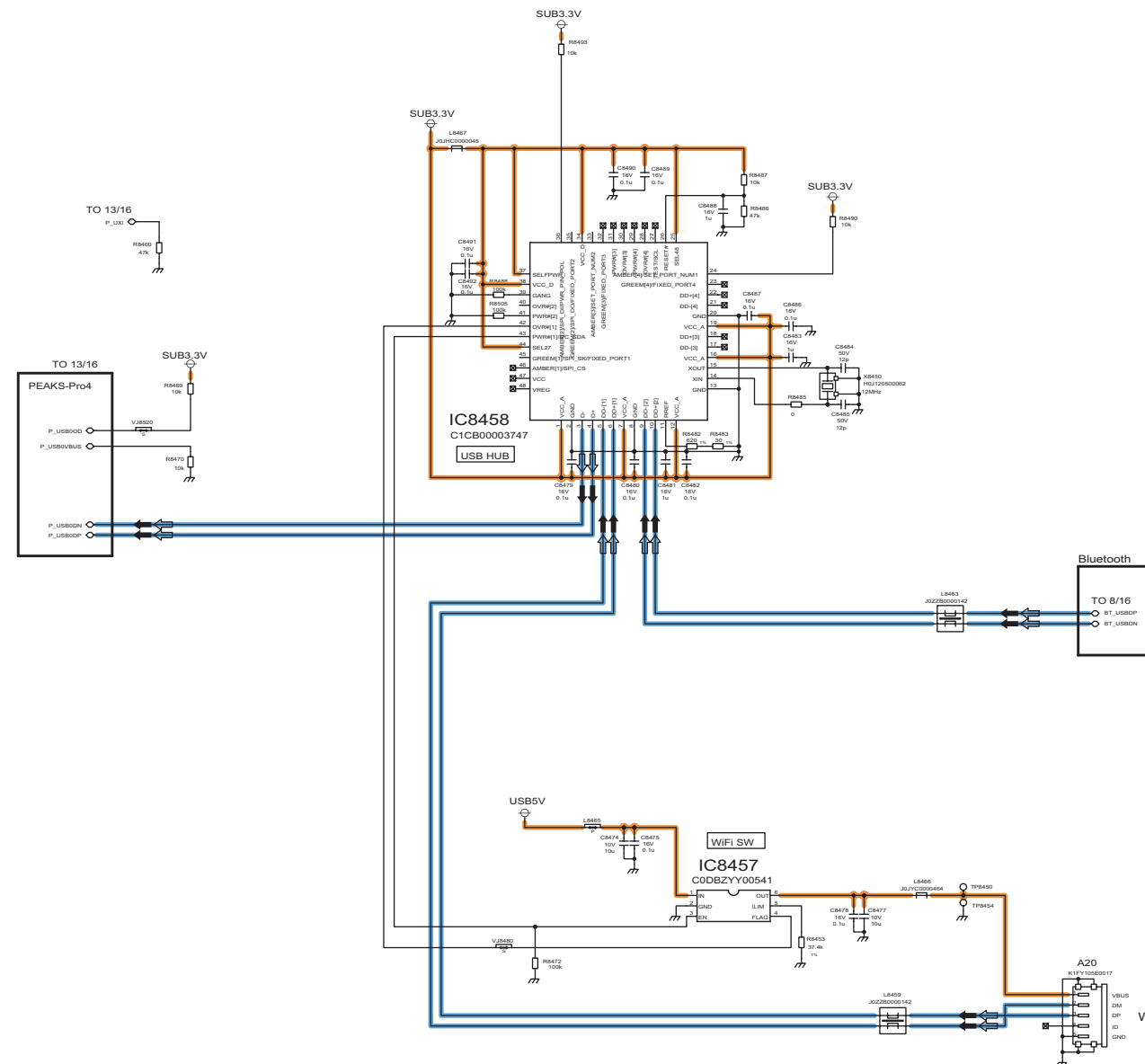


12.12. A-Board (11/16) Schematic Diagram

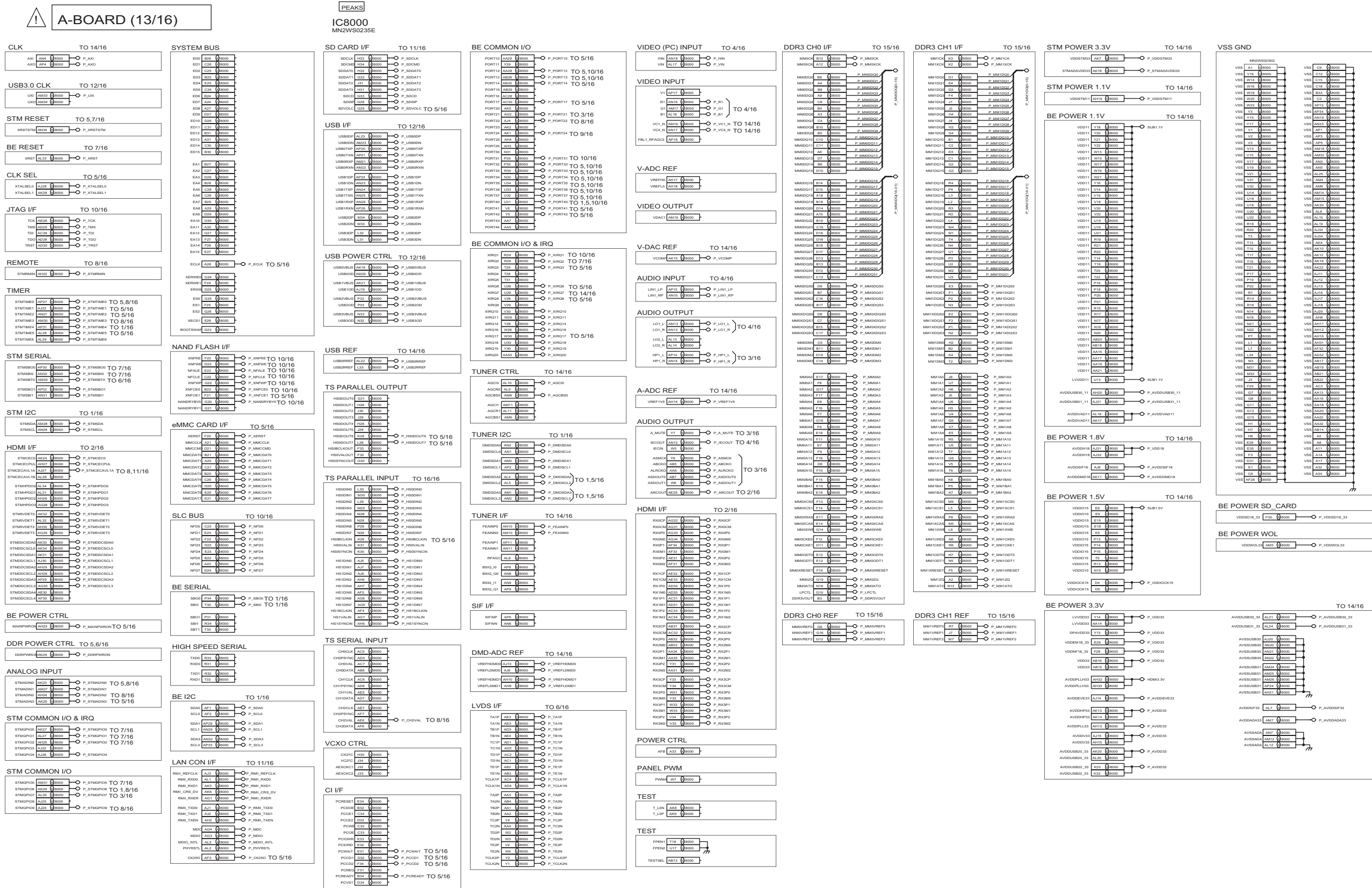
! A-BOARD (11/16)



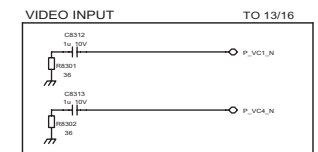
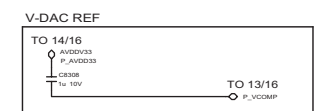
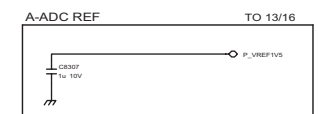
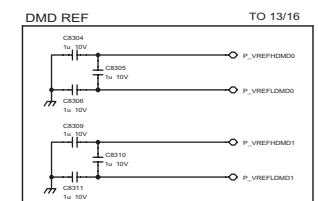
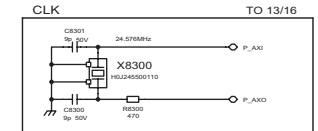
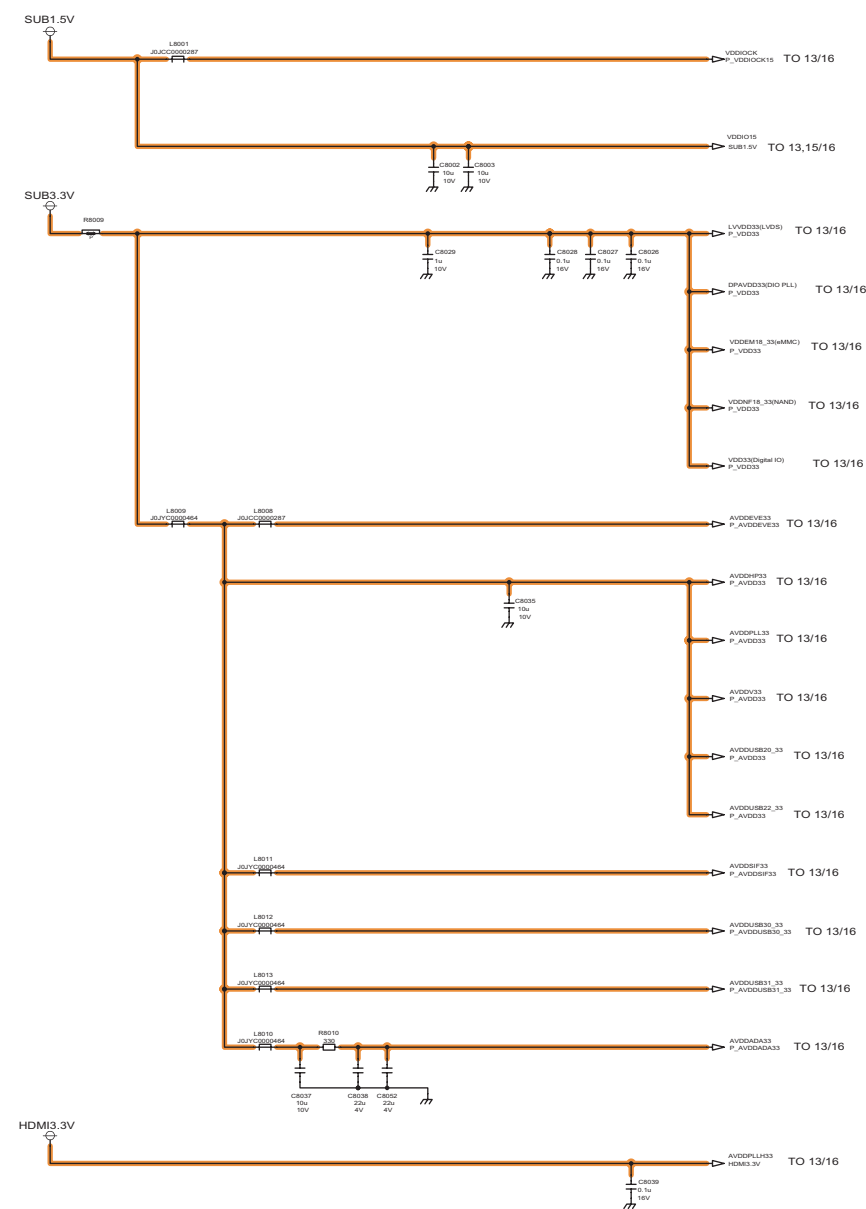
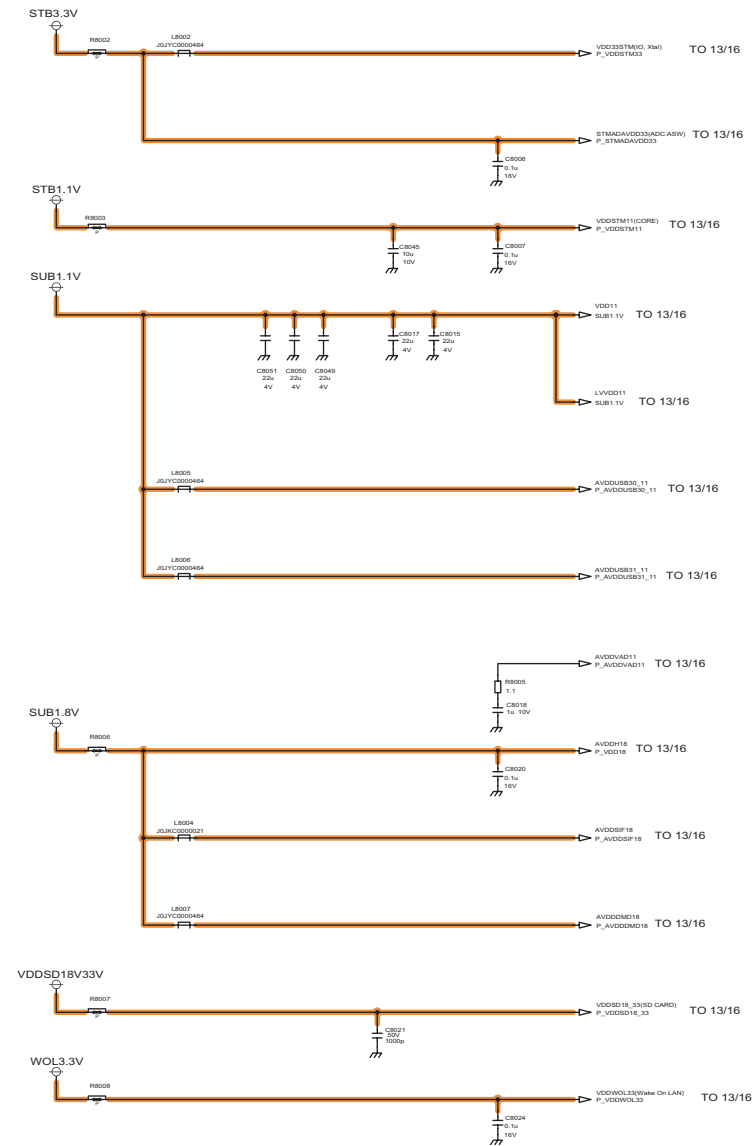
12.13. A-Board (12/16) Schematic Diagram



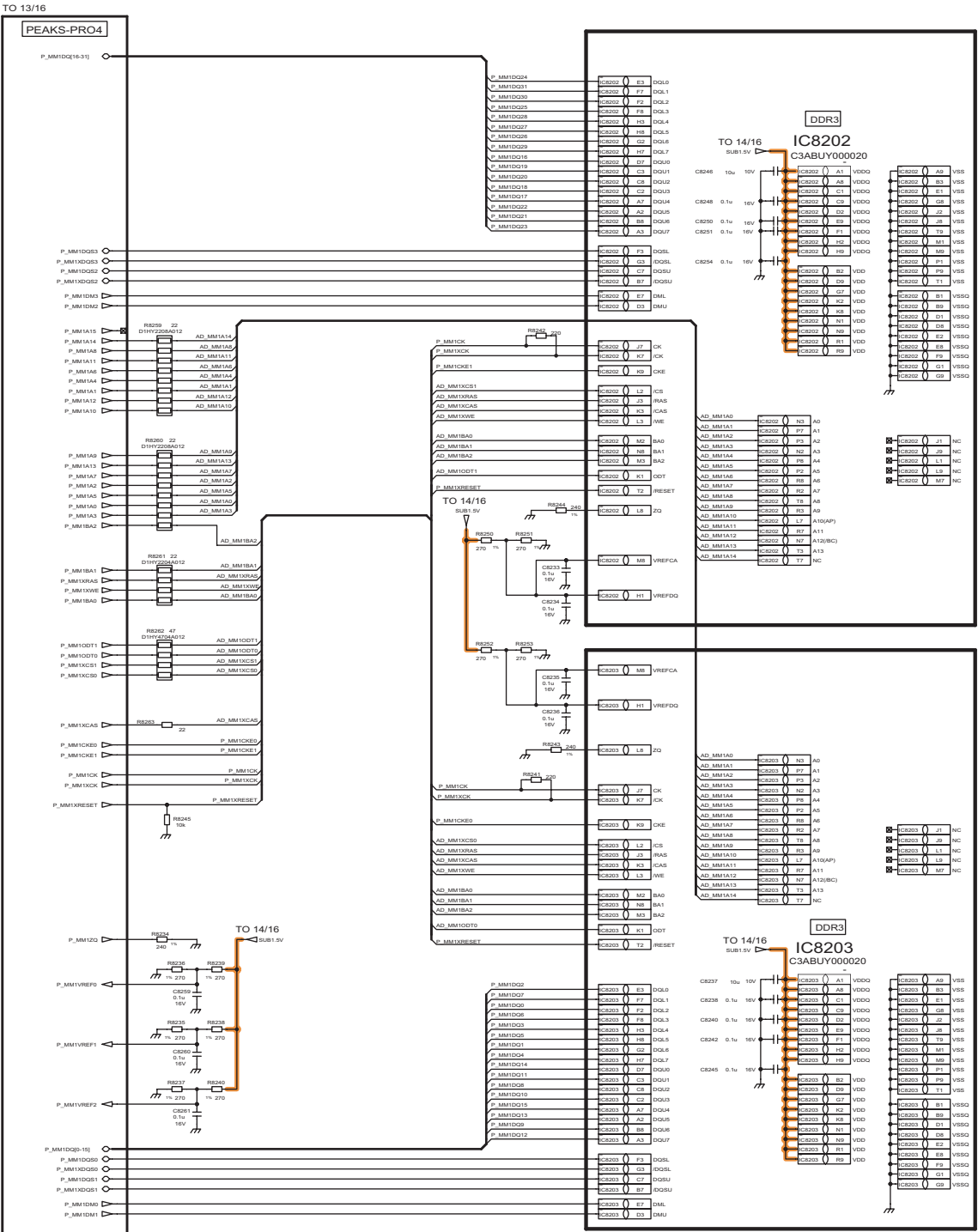
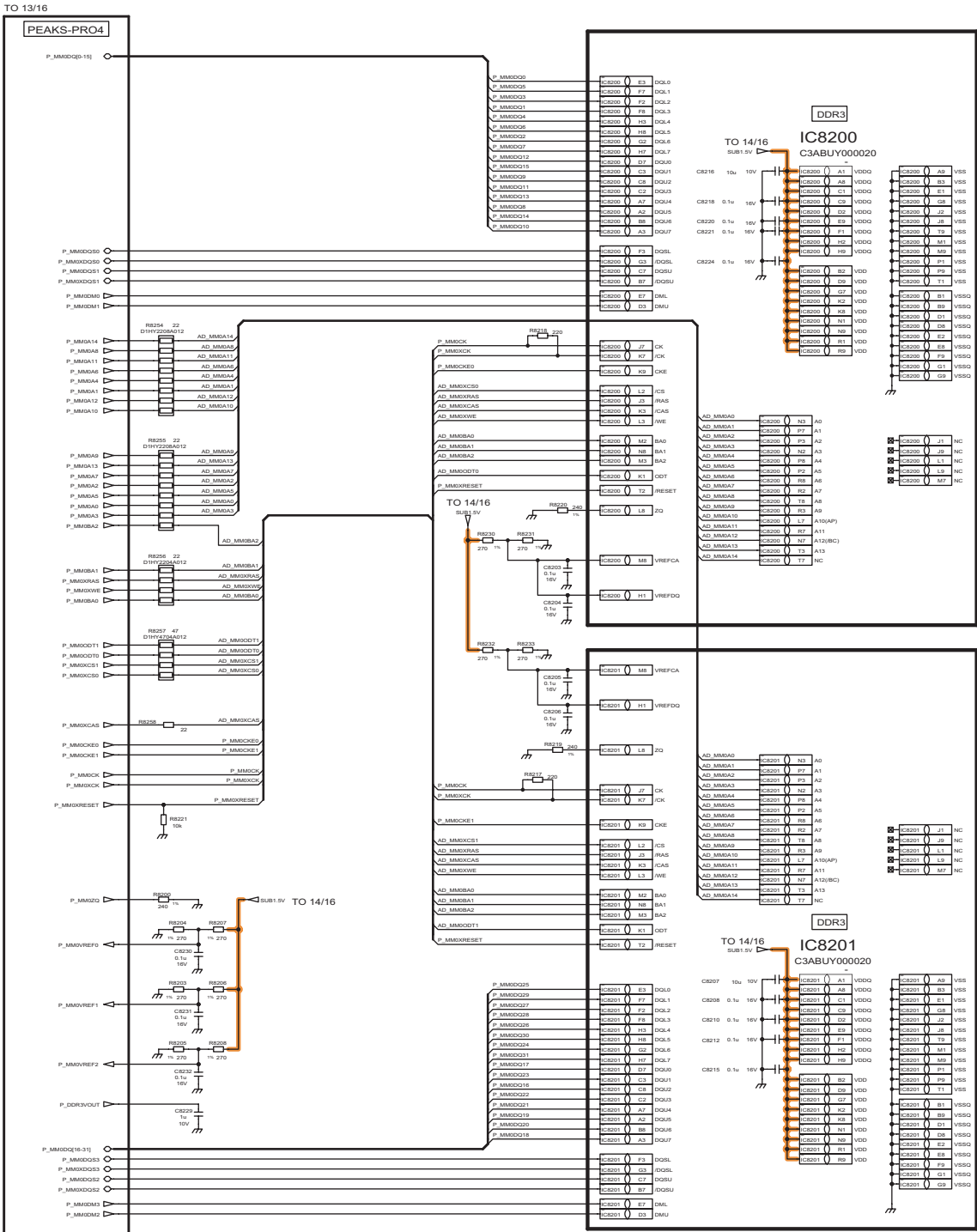
12.14. A-Board (13/16) Schematic Diagram



12.15. A-Board (14/16) Schematic Diagram

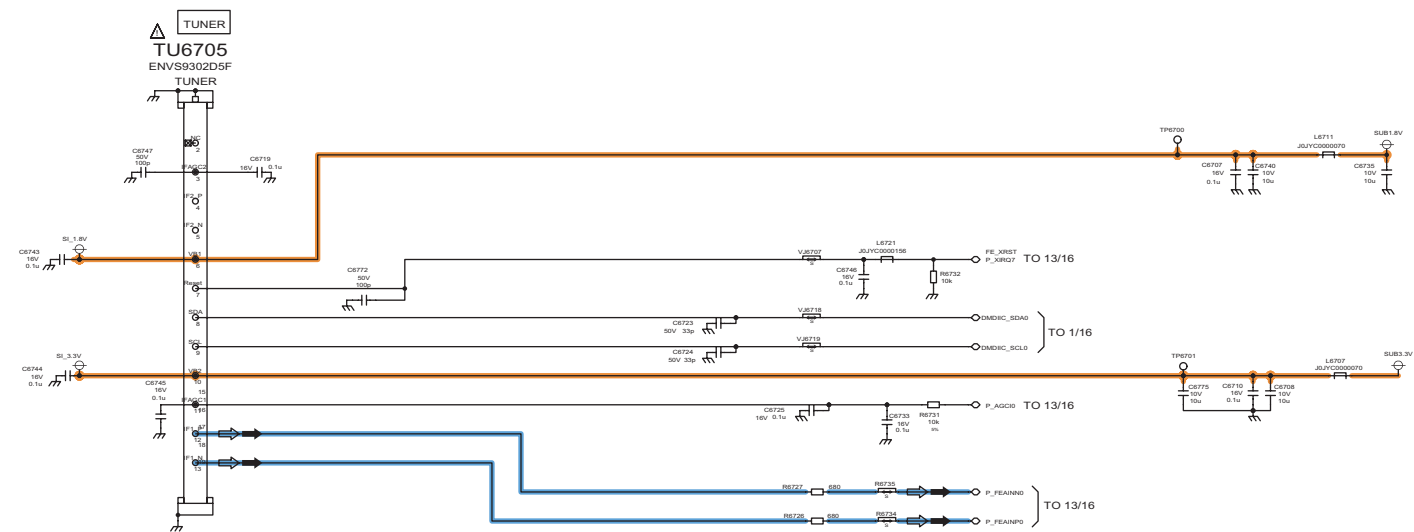


12.16. A-Board (15/16) Schematic Diagram



12.17. A-Board (16/16) Schematic Diagram

 A-BOARD (16/16)



136

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139

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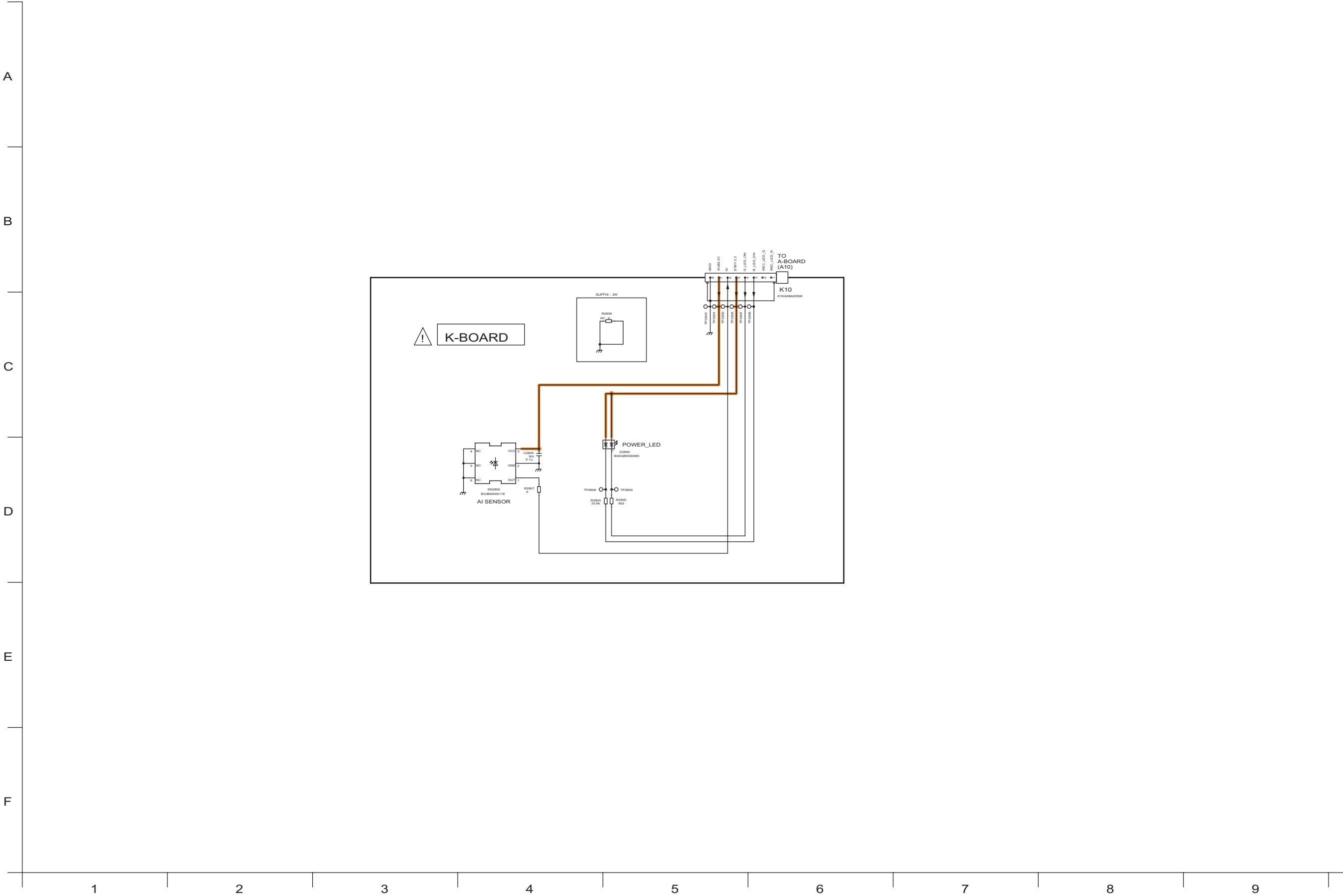
141

142

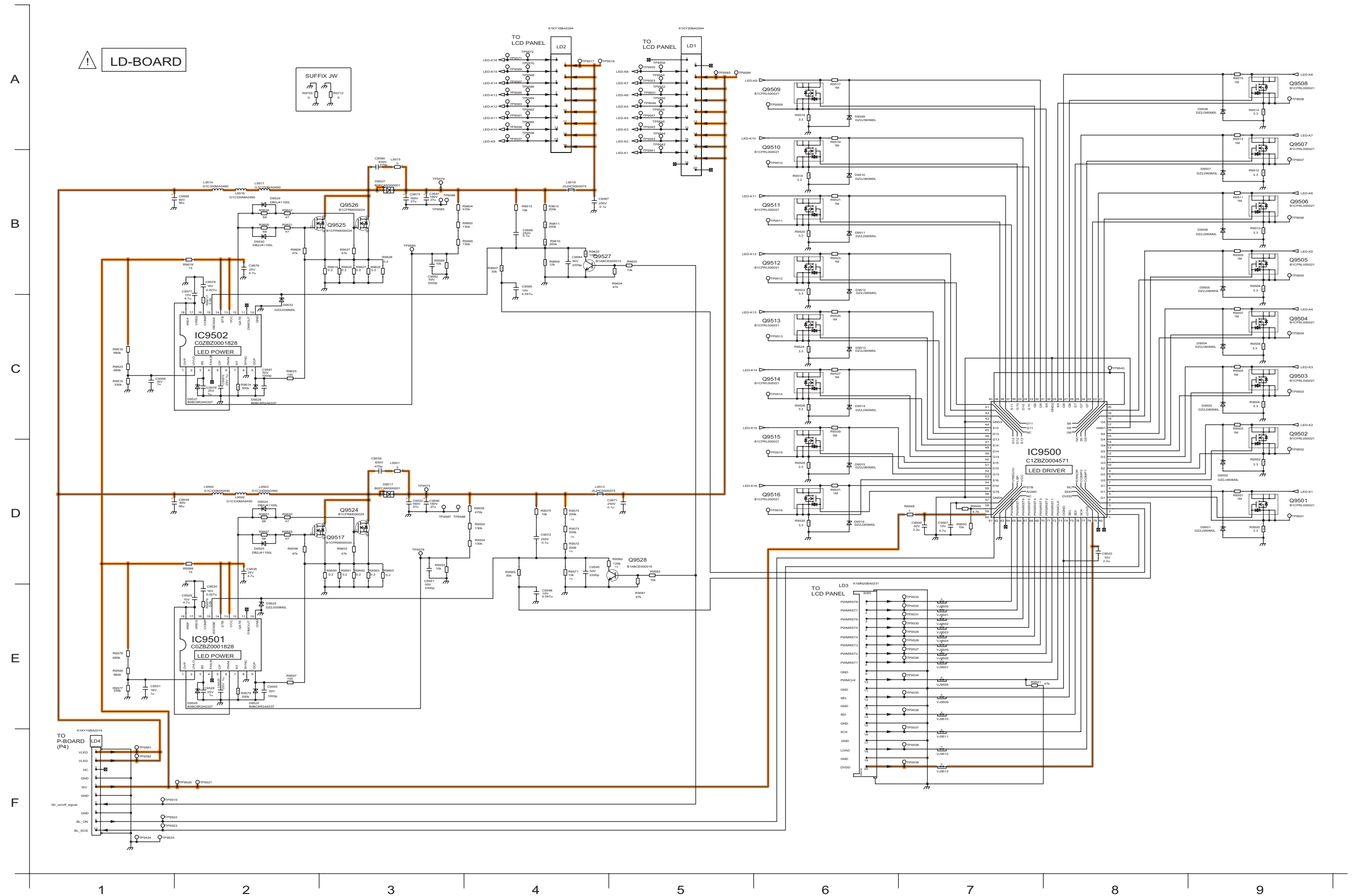
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144

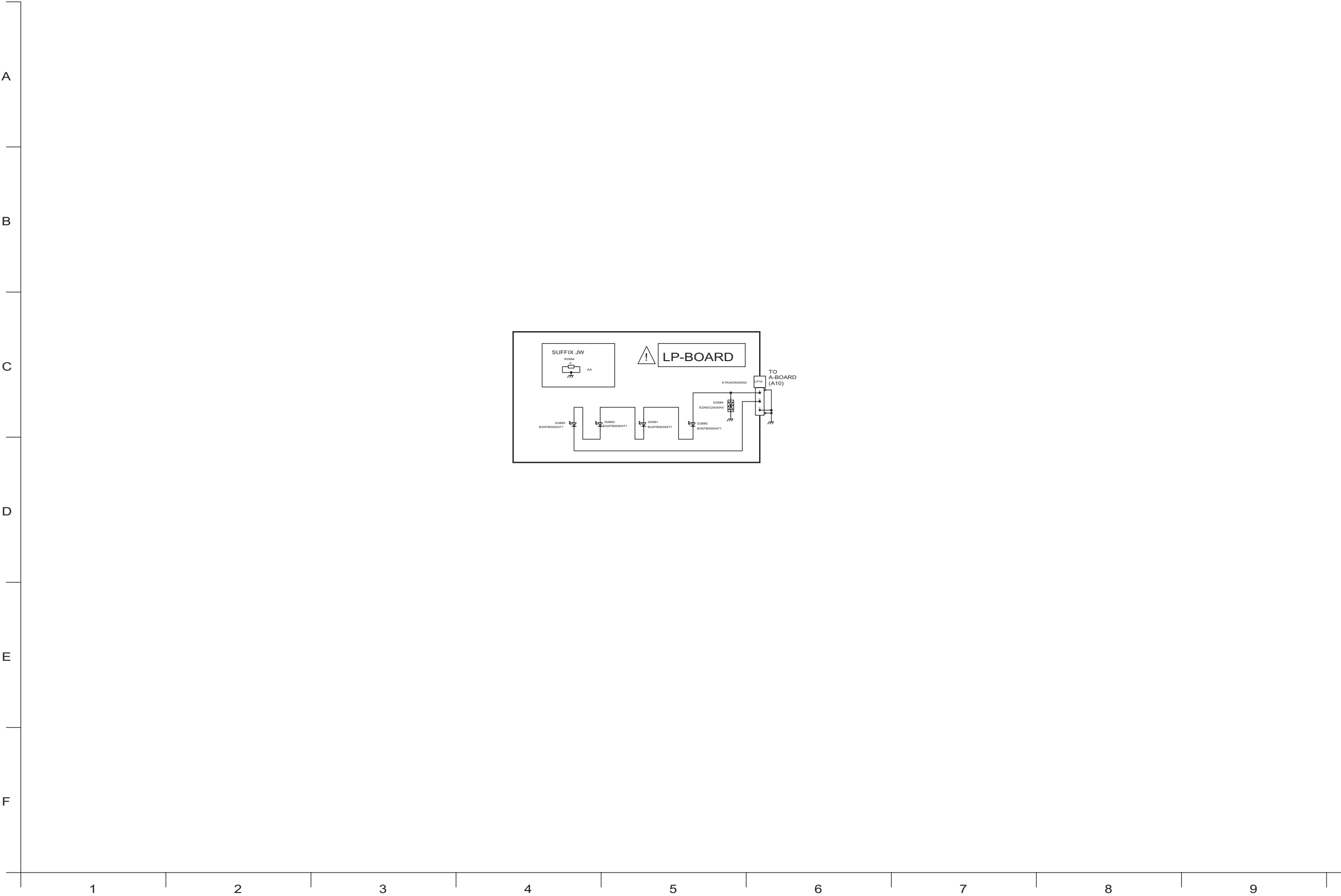
12.18. K-Board Schematic Diagram



12.19. LD-Board Schematic Diagram

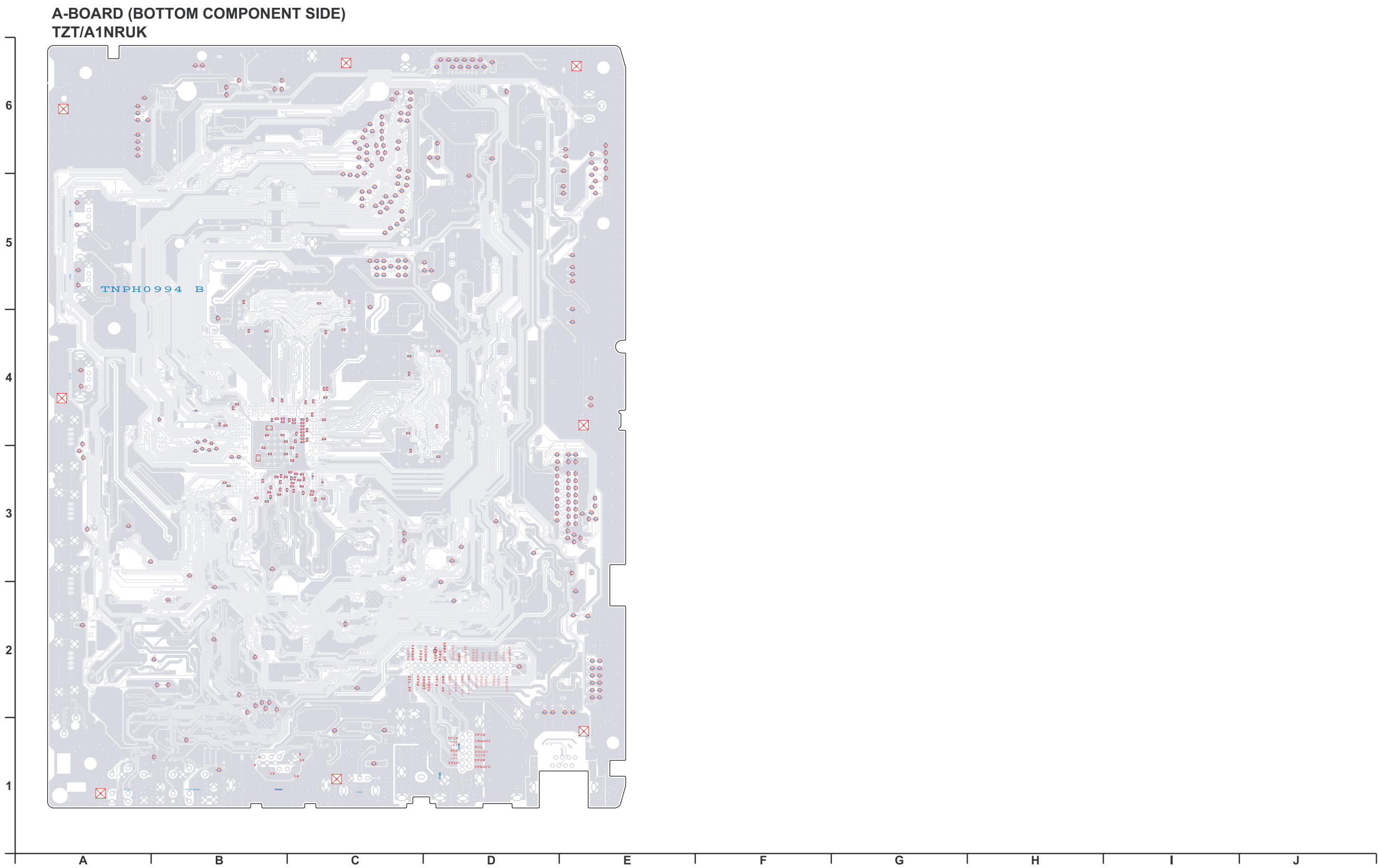


12.20. LP-Board Schematic Diagram

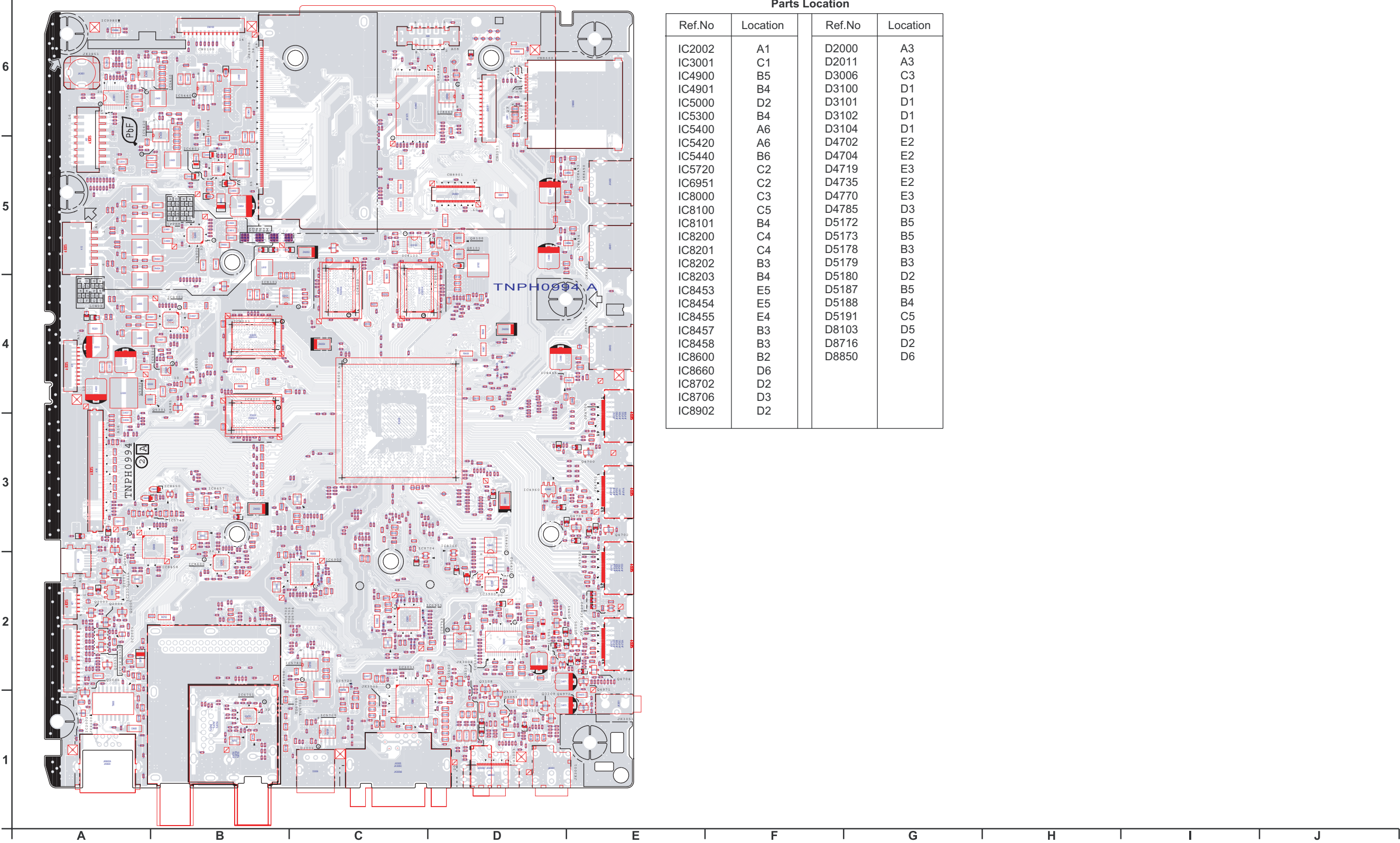


13 Printed Circuit Board

13.1. A-Board



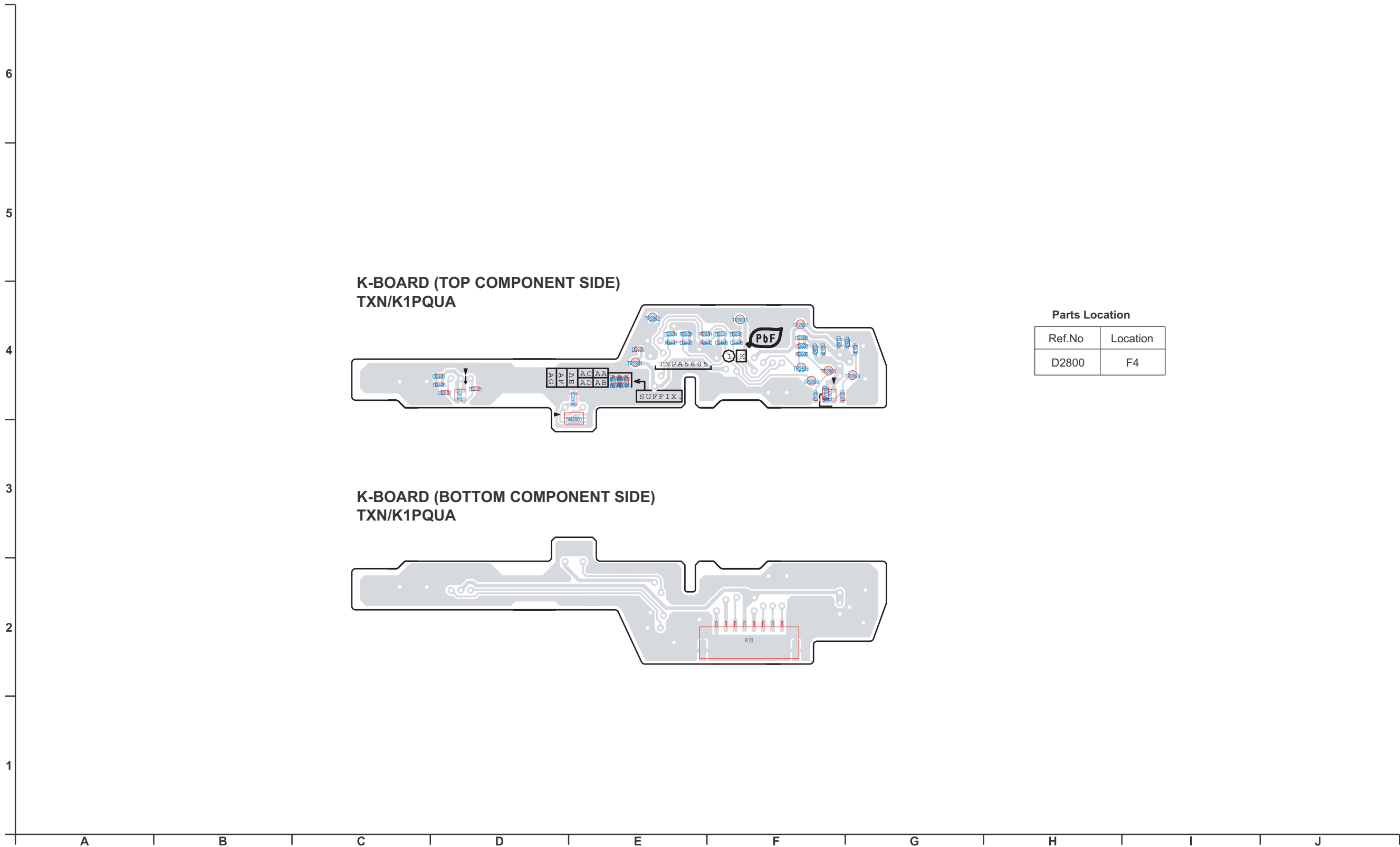
A-BOARD (TOP COMPONENT SIDE)
TZT/A1NRUK



Parts Location

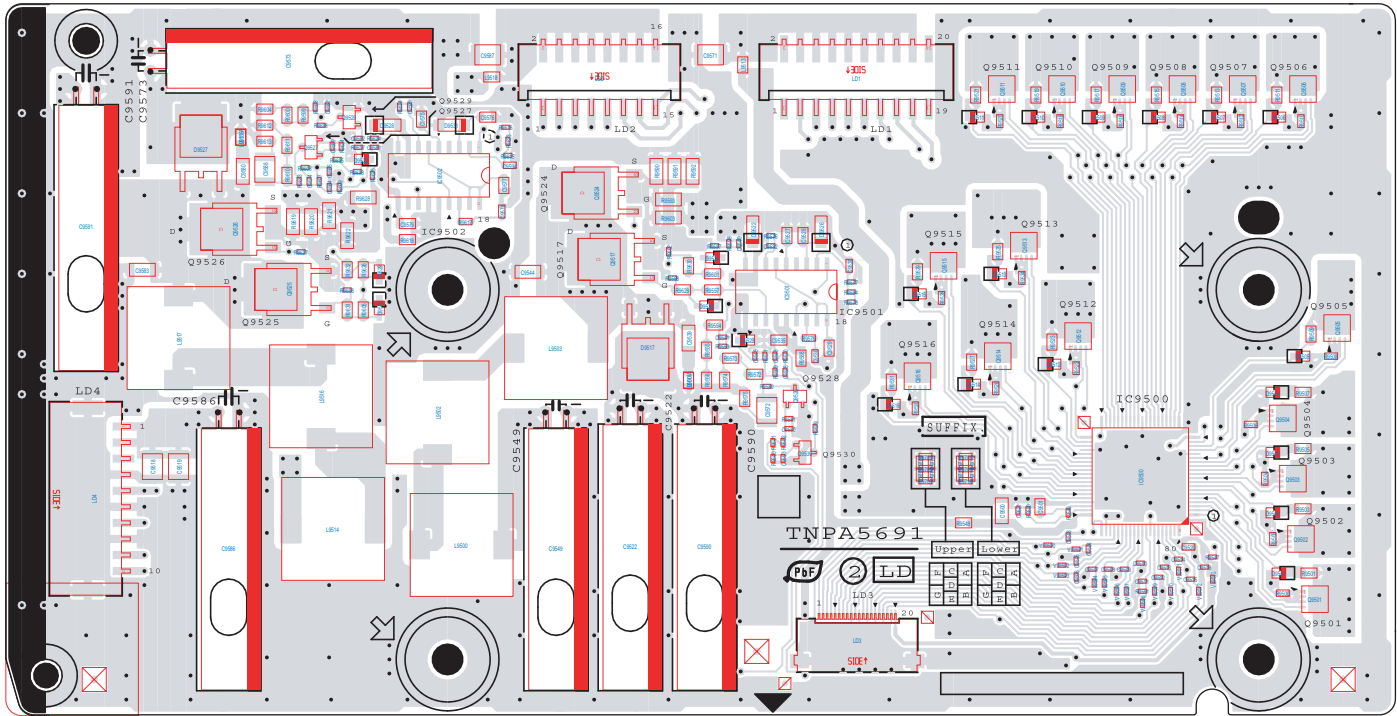
Ref.No	Location	Ref.No	Location
IC2002	A1	D2000	A3
IC3001	C1	D2011	A3
IC4900	B5	D3006	C3
IC4901	B4	D3100	D1
IC5000	D2	D3101	D1
IC5300	B4	D3102	D1
IC5400	A6	D3104	D1
IC5420	A6	D4702	E2
IC5440	B6	D4704	E2
IC5720	C2	D4719	E3
IC6951	C2	D4735	E2
IC8000	C3	D4770	E3
IC8100	C5	D4785	D3
IC8101	B4	D5172	B5
IC8200	C4	D5173	B5
IC8201	C4	D5178	B3
IC8202	B3	D5179	B3
IC8203	B4	D5180	D2
IC8453	E5	D5187	B5
IC8454	E5	D5188	B4
IC8455	E4	D5191	C5
IC8457	B3	D8103	D5
IC8458	B3	D8716	D2
IC8600	B2	D8850	D6
IC8660	D6		
IC8702	D2		
IC8706	D3		
IC8902	D2		

13.2. K-Board

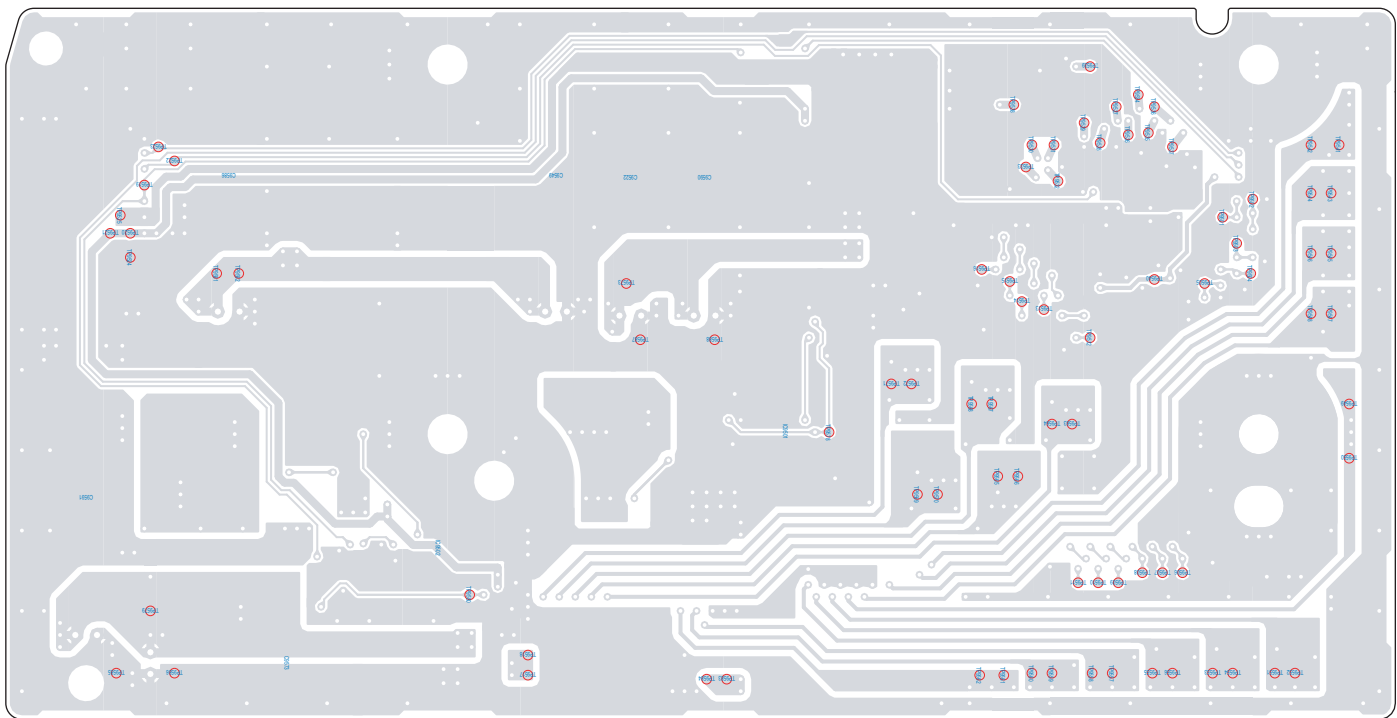


13.3. LD-Board

LD-BOARD (TOP COMPONENT SIDE)
TXNLD1RMUU



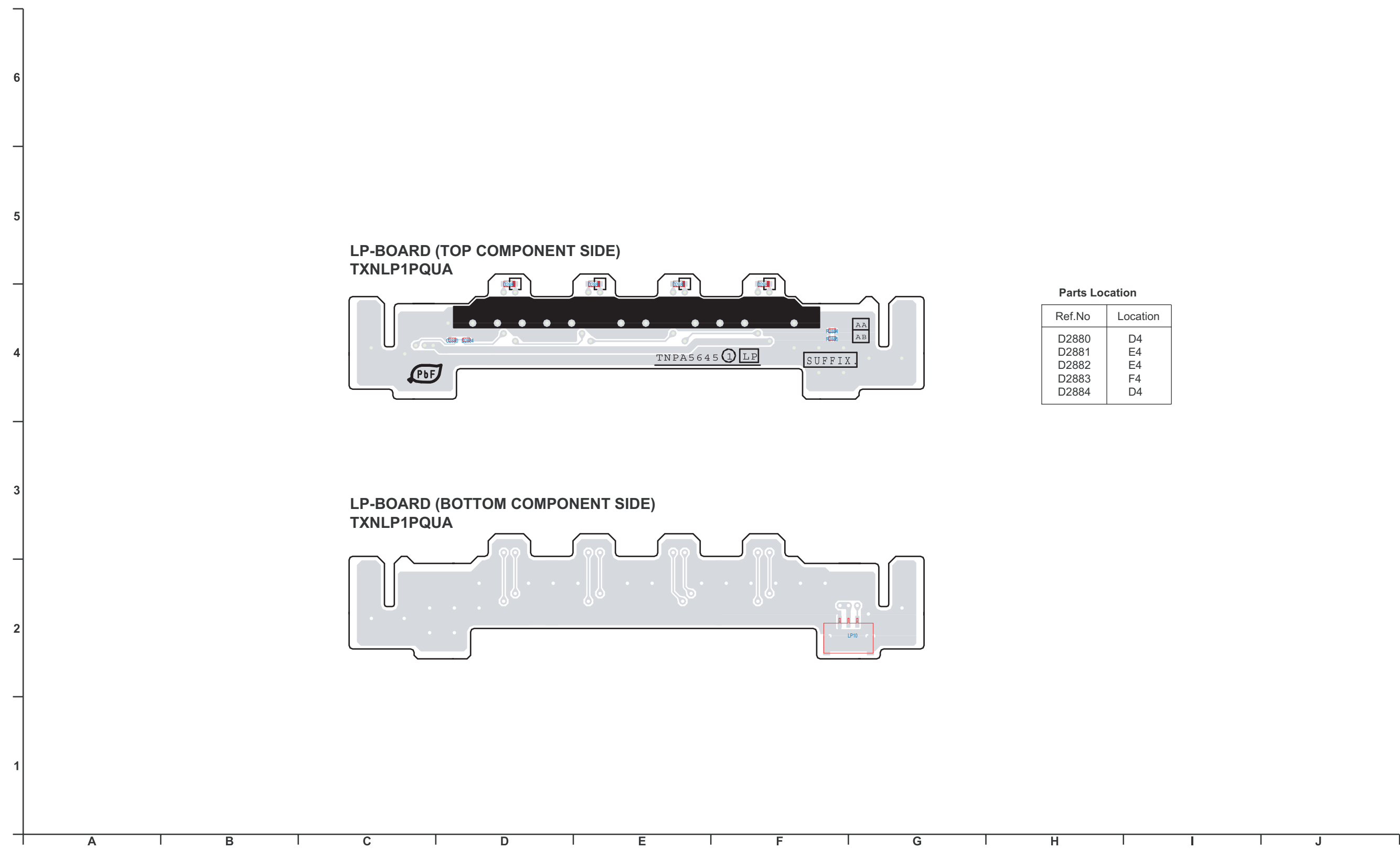
LD-BOARD (BOTTOM COMPONENT SIDE)
TXNLD1RMUU



Parts Location

Ref.No	Location
IC9500	F5
IC9501	E5
IC9502	C6
D9501	F4
D9502	F4
D9503	F5
D9504	F5
D9505	F5
D9506	F6
D9507	F6
D9508	F6
D9509	F6
D9510	E6
D9511	E6
D9512	E5
D9513	E5
D9514	E5
D9515	E5
D9516	E5
D9517	D5
D9522	D5
D9523	D5
D9525	D5
D9526	E5
D9527	B5
D9528	C6
D9529	C6
D9531	C6
D9532	C6

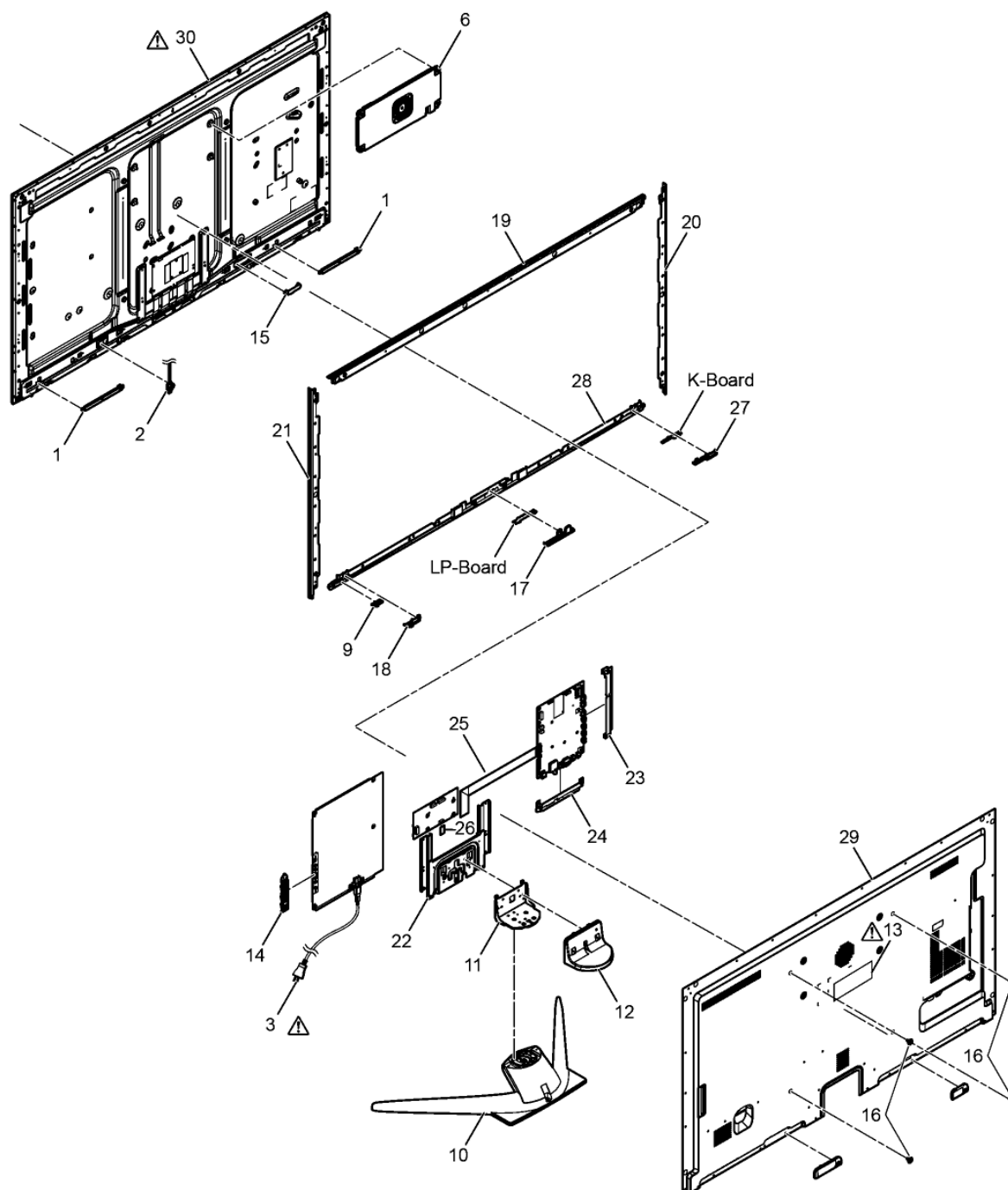
13.4. LP-Board



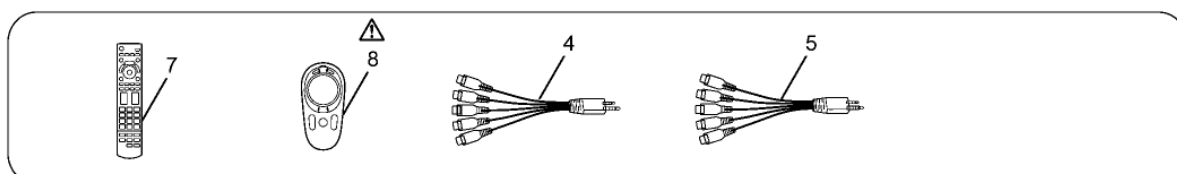
14 Exploded View and Replacement Parts List

14.1. Exploded View and Mechanical Replacement Parts List

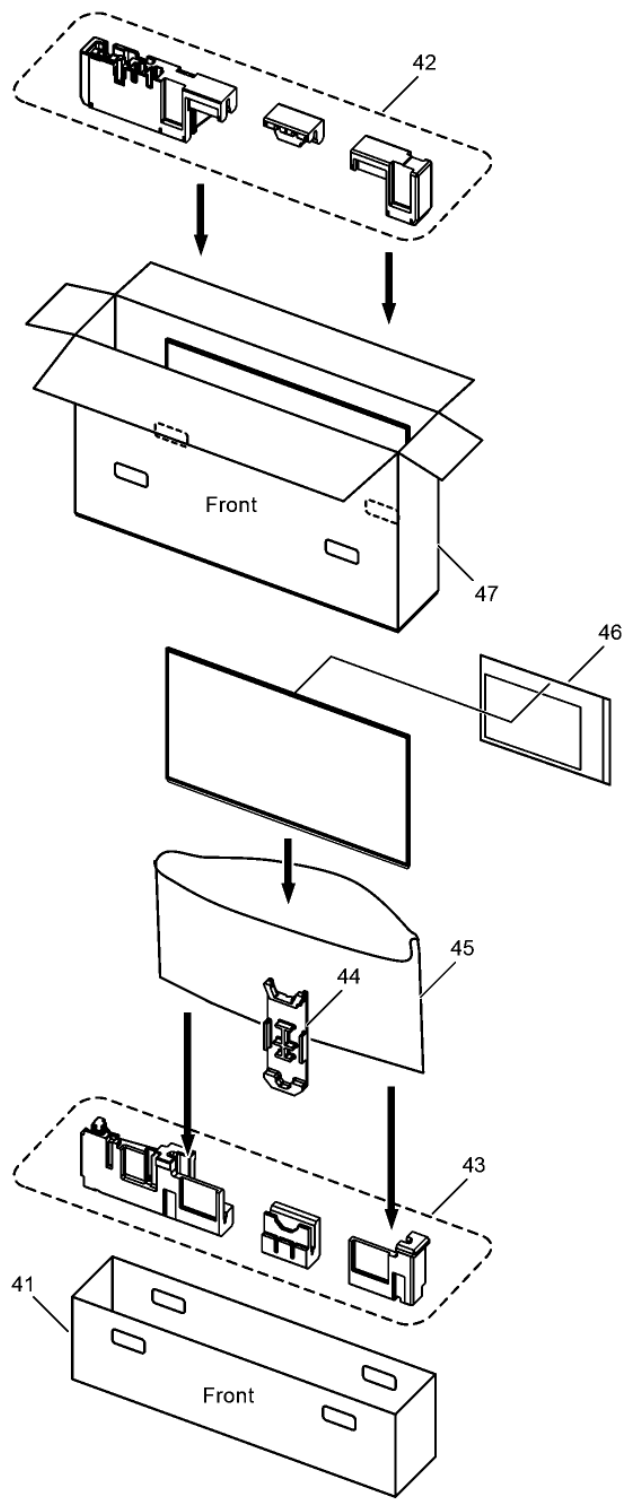
14.1.1. Exploded View



Accessories



14.1.2. Packing



14.1.3. Mechanical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	EAK1H05A	SPEAKER SQ	2	
	2	K1HY05YY0025	USB CABLE	1	
	3	K2CT2YY00090	AC CORD	1	
	4	K2KYYYY00204	AV CABLE COMPONENT	1	
	5	K2KYYYY00205	AV CBVS CABLE	1	
	6	L0EYAA000012	SPEAKER	1	
	7	N2QAYB000749	REMOTE CONTROL	1	
	8	N2QBYB000016	TOUCH REMOTE	1	
	9	N5ZZ00000263	IR RECEIVER	1	
	10	TBL5ZX04001	PEDESTAL ASSY	1	
	11	TBL5ZX04671	STAND METAL	1	
	12	TBL5ZX04691	STAND METAL COVER	1	
	13	TBM4GC9311	MODEL NAME PLATE	1	
	14	TBX5ZA00402A	KEY BUTTON	1	
		THE4GJ001J	SCREW	8	
		THEC150J	SCREW	40	
		THEJ036J	SCREW	24	
	15	TKK5ZL50061A	BT CONNECTOR BRACKET	1	
	16	TKKL55352	M8 CAP	4	
	17	TKP5ZA20501	BOTTOM COVER C	1	
	18	TKP5ZA20801	BOTTOM COVER R	1	
	19	TKR5ZA17101	REAR PANEL T	1	
	20	TKR5ZA17201	REAR PANEL L	1	
	21	TKR5ZA17301	REAR PANEL R	1	
	22	TKZ5ZC50041	METAL BRACKET BOTTOM	1	
	23	TKZ5ZF50037	METAL AV BRACKET SIDE	1	
	24	TKZ5ZF50078	METAL AV BRACKET BOTTOM	1	
	41	TPC4GA19201	BOTTOM CARTON	1	
	42	TPD4GA0262	TOP CUSHION	1	
	43	TPD4GA0263	BOTTOM CUSHION	1	
	44	TPD4GA0273	CENTER CUSHION	1	
	45	TPE4GH064	SET COVER	1	
	46	TQZ4GB545	FAN BAG ASSY	1	
	25	TSCKF0010009	LVDS FFC	1	
	26	TSCKZ0010055	LD FFC	1	
	27	TTP5ZA0007	BOTTOM COVER L ASSY	1	
	28	TXFKP5Z0045	REAR PANEL B ASSY	1	
	29	TXFKU01NNUM	BACK COVER ASSY	1	
	47	TXFPC01NNUM	PACKING CASE ASSY	1	
	30	VVX55F130A00	LCD PANEL	1	

14.2. Electrical Replacement Parts List

14.2.1. Replacement Parts List Notes

Note: All part will be supplied by PAVCKM.

Notice: Be sure to make your orders of replacement parts according to this list.

RTL (Retention Time Limited)

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

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

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

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

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

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

14.2.2. Electrical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
△	PCB	TXN/K1PQUA	K PRINT	1	(RTL)
△	PCB	TXNLD1RMUU	LD PRINT	1	(RTL)
△	PCB	TXNLP1PQUA	LP PRINT	1	(RTL)
△	PCB	TZT/A1NRUK	A PRINT ASSY	1	(RTL)
△	PCB	N0AE3HJ00016	POWER BOARD	1	
	A02	K1KY16BA0394	CONNECTOR	1	
	A10	K1KA14B00129	CONNECTOR	1	
	A12	K1KY06BA0387	CONNECTOR	1	
	A16	K1MY60BA0526	CONNECTOR	1	
	A20	K1FY105E0017	CONNECTOR	1	
	A21	K1KA05B00219	CONNECTOR	1	
	C1958	F1G1E1030005	C 0.01UF 25V	1	
	C2000	F1G1A105A047	C 1UF 10V	1	
	C2012	F1L0G1070001	C 100UF, 4V	1	
	C2014	F1K1E106A134	C 10UF, 25V	1	
	C2023	F1G1C104A077	C 0.1UF 16V	1	
	C2041	F1G1C104A077	C 0.1UF 16V	1	
	C2805	F1H1C104A041	C 0.1UF, 16V	1	
	C3008	F1J1A106A110	C 10UF, 10V	1	
	C3009	F1J1A106A087	C 10UF, 10V	1	
	C3010	F1G1C104A077	C 0.1UF 16V	1	
	C3011	F1G1A105A047	C 1UF 10V	1	
	C3012	F1G1A105A047	C 1UF 10V	1	
	C3013	F1G1A105A047	C 1UF 10V	1	
	C3020	F1G1C104A077	C 0.1UF 16V	1	
	C3021	F1J1A106A110	C 10UF, 10V	1	
	C3022	F1G1C104A077	C 0.1UF 16V	1	
	C3024	F1G1C104A077	C 0.1UF 16V	1	
	C3025	F1G1A105A047	C 1UF 10V	1	
	C3026	F1G1A105A047	C 1UF 10V	1	
	C3027	F1G1C104A077	C 0.1UF 16V	1	
	C3028	F1G1C104A077	C 0.1UF 16V	1	
	C3031	F1H1A105A099	C 1UF, 10V	1	
	C3032	F1H1A105A099	C 1UF, 10V	1	
	C3084	F1J1A106A087	C 10UF, 10V	1	
	C3085	F1J1A106A087	C 10UF, 10V	1	
	C3086	F1J1A106A087	C 10UF, 10V	1	
	C3087	F1J1A106A087	C 10UF, 10V	1	
	C3108	F1G1H561A830	C 560PF 50V	1	
	C3109	F1G1H561A830	C 560PF 50V	1	
	C3114	F1G1E333A059	C 0.033UF, 25V	1	
	C3115	F1G1E333A059	C 0.033UF, 25V	1	
	C3116	F1J1A106A087	C 10UF, 10V	1	
	C3117	F1J1A106A087	C 10UF, 10V	1	
	C3118	F1J1A106A087	C 10UF, 10V	1	
	C3133	F1J1A106A087	C 10UF, 10V	1	
	C3145	F1J1A106A087	C 10UF, 10V	1	
	C3147	F1J1A106A087	C 10UF, 10V	1	
	C3151	F1H1A105A099	C 1UF, 10V	1	
	C3152	F1H1A105A099	C 1UF, 10V	1	
	C3159	F1H1A105A099	C 1UF, 10V	1	
	C3160	F1H1A105A099	C 1UF, 10V	1	
	C4000	F1H1H103B047	C 0.01UF, 50V	1	
	C4001	F1H1H103B047	C 0.01UF, 50V	1	
	C4037	F1K1E106A134	C 10UF, 25V	1	
	C4038	F1K1E106A134	C 10UF, 25V	1	
	C4702	F1H0J105A051	C 1UF, 6.3V	1	
	C4900	F1K1V106A010	C 10UF, 25V	1	
	C4901	F1K1V106A010	C 10UF, 25V	1	
	C4903	F1G1C104A077	C 0.1UF 16V	1	
	C4904	F1G1C104A077	C 0.1UF 16V	1	
	C4905	F1G1C104A077	C 0.1UF 16V	1	
	C4906	F1G1C104A077	C 0.1UF 16V	1	
	C4907	F1K1V106A010	C 10UF, 25V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C4909	F1K1V106A010	C 10UF, 25V	1	
	C4921	F1J1E105A287	C 1UF, 25V	1	
	C4922	F1J1E105A287	C 1UF, 25V	1	
	C4923	F1J1E105A287	C 1UF, 25V	1	
	C4924	F1J1E105A287	C 1UF, 25V	1	
	C4931	F1K1V106A010	C 10UF, 25V	1	
	C4933	F1G1C104A077	C 0.1UF 16V	1	
	C4934	F1G1C104A077	C 0.1UF 16V	1	
	C4935	F1G1C104A077	C 0.1UF 16V	1	
	C4936	F1G1C104A077	C 0.1UF 16V	1	
	C4937	F1K1V106A010	C 10UF, 25V	1	
	C4946	F1J1E474A272	C 0.47UF, 25V	1	
	C4947	F1J1E474A272	C 0.47UF, 25V	1	
	C4971	F2G0G101A007	E 100UF, 4V	1	
	C4972	F2G0G101A007	E 100UF, 4V	1	
	C5000	F1G1A105A047	C 1UF 10V	1	
	C5002	F1G1A105A047	C 1UF 10V	1	
	C5004	F1G1A105A047	C 1UF 10V	1	
	C5006	F1J1E105A287	C 1UF, 25V	1	
	C5012	F1G1A105A047	C 1UF 10V	1	
	C5020	F1G1C104A077	C 0.1UF 16V	1	
	C5021	F1G1A105A047	C 1UF 10V	1	
	C5022	F1G1A105A047	C 1UF 10V	1	
	C5026	F1H1C105A145	C 1 uF 16 V	1	
	C5150	F1G1E1030005	C 0.01UF 25V	1	
	C5151	F1G1E1030005	C 0.01UF 25V	1	
	C5171	F1G1C1030008	C 0.01UF 16V	1	
	C5301	F1K1E106A134	C 10UF, 25V	1	
	C5303	F1K1E106A134	C 10UF, 25V	1	
	C5305	F1K1E106A134	C 10UF, 25V	1	
	C5308	F1G1H1020008	C 1000PF 50V	1	
	C5309	F1G1H101A834	C 100PF 50V	1	
	C5310	F1G1E1030005	C 0.01UF 25V	1	
	C5311	F1K1E106A134	C 10UF, 25V	1	
	C5316	F1J1E475A182	C 4.7UF, 25V	1	
	C5317	F1H1C474A178	C 0.47UF, 16V	1	
	C5400	F1K1V106A010	C 10UF, 25V	1	
	C5401	F1K1V106A010	C 10UF, 25V	1	
	C5402	F1G1C104A077	C 0.1UF 16V	1	
	C5403	F1J0J2260004	C 22 UF 6.3 V	1	
	C5404	F1J0J2260004	C 22 UF 6.3 V	1	
	C5407	F1G1E333A059	C 0.033UF, 25V	1	
	C5408	F1G1H222A830	C 2200PF, 50V	1	
	C5420	F1K1V106A010	C 10UF, 25V	1	
	C5421	F1K1V106A010	C 10UF, 25V	1	
	C5422	F1G1C104A077	C 0.1UF 16V	1	
	C5423	F1J0J2260004	C 22 UF 6.3 V	1	
	C5424	F1J0J2260004	C 22 UF 6.3 V	1	
	C5427	F1G1E333A059	C 0.033UF, 25V	1	
	C5428	F1G1H222A830	C 2200PF, 50V	1	
	C5440	F1K1V106A010	C 10UF, 25V	1	
	C5441	F1K1V106A010	C 10UF, 25V	1	
	C5442	F1G1C223A081	C 0.022UF, 16V	1	
	C5443	F1J0J2260004	C 22 UF 6.3 V	1	
	C5444	F1J0J2260004	C 22 UF 6.3 V	1	
	C5448	F1H1C105A145	C 1 uF 16 V	1	
	C5449	F1G1C104A077	C 0.1UF 16V	1	
	C5450	F1G1H100A833	C 10PF 50V	1	
	C5780	F1K1V106A010	C 10UF, 25V	1	
	C5781	F1K1V106A010	C 10UF, 25V	1	
	C6707	F1G1C104A077	C 0.1UF 16V	1	
	C6708	F1J1A106A087	C 10UF, 10V	1	
	C6710	F1G1C104A077	C 0.1UF 16V	1	
	C6719	F1G1C104A077	C 0.1UF 16V	1	
	C6723	F1G1H330A834	C 33PF, 50V	1	
	C6724	F1G1H330A834	C 33PF, 50V	1	
	C6725	F1G1C104A077	C 0.1UF 16V	1	
	C6733	F1G1C104A077	C 0.1UF 16V	1	
	C6735	F1J1A106A087	C 10UF, 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C6740	FIJ1A106A087	C 10UF, 10V	1	
	C6743	FI61C104A077	C 0.1UF 16V	1	
	C6744	FI61C104A077	C 0.1UF 16V	1	
	C6745	FI61C104A077	C 0.1UF 16V	1	
	C6746	FI61C104A077	C 0.1UF 16V	1	
	C6747	FI61H101A834	C 100PF 50V	1	
	C6772	FI61H101A834	C 100PF 50V	1	
	C6775	FIJ1A106A087	C 10UF, 10V	1	
	C8002	FIJ1A106A087	C 10UF, 10V	1	
	C8003	FIJ1A106A087	C 10UF, 10V	1	
	C8006	FI61C104A077	C 0.1UF 16V	1	
	C8007	FI61C104A077	C 0.1UF 16V	1	
	C8015	FIJ0G2260001	C 22 UF 4 V	1	
	C8017	FIJ0G2260001	C 22 UF 4 V	1	
	C8018	FI61A105A047	C 1UF 10V	1	
	C8020	FI61C104A077	C 0.1UF 16V	1	
	C8024	FI61C104A077	C 0.1UF 16V	1	
	C8026	FI61C104A077	C 0.1UF 16V	1	
	C8027	FI61C104A077	C 0.1UF 16V	1	
	C8028	FI61C104A077	C 0.1UF 16V	1	
	C8029	FI61A105A047	C 1UF 10V	1	
	C8035	FIJ1A106A087	C 10UF, 10V	1	
	C8037	FIJ1A106A087	C 10UF, 10V	1	
	C8038	FIJ0G2260001	C 22 UF 4 V	1	
	C8039	FI61C104A077	C 0.1UF 16V	1	
	C8045	FIJ1A106A087	C 10UF, 10V	1	
	C8049	FIJ0G2260001	C 22 UF 4 V	1	
	C8050	FIJ0G2260001	C 22 UF 4 V	1	
	C8051	FIJ0G2260001	C 22 UF 4 V	1	
	C8052	FIJ0G2260001	C 22 UF 4 V	1	
	C8110	FI61C183A146	C 0.018UF, 16V	1	
	C8111	FIH1C105A145	C 1 uF 16 V	1	
	C8112	FI61C104A077	C 0.1UF 16V	1	
	C8113	FIK1E106A134	C 10UF, 25V	1	
	C8115	FIJ0G2260001	C 22 UF 4 V	1	
	C8116	FIJ0G2260001	C 22 UF 4 V	1	
	C8118	FIH1E104A029	C 0.1UF, 25V	1	
	C8120	FI61E682A059	C 6800PF 25V	1	
	C8121	FIH1C105A145	C 1 uF 16 V	1	
	C8122	FIJ1A475A039	C 4.7UF, 10V	1	
	C8123	FI61C104A077	C 0.1UF 16V	1	
	C8124	FIK1E106A134	C 10UF, 25V	1	
	C8125	FIK1E106A134	C 10UF, 25V	1	
	C8126	FIJ0G2260001	C 22 UF 4 V	1	
	C8127	FIJ0G2260001	C 22 UF 4 V	1	
	C8128	FIJ0G2260001	C 22 UF 4 V	1	
	C8203	FI61C104A077	C 0.1UF 16V	1	
	C8204	FI61C104A077	C 0.1UF 16V	1	
	C8205	FI61C104A077	C 0.1UF 16V	1	
	C8206	FI61C104A077	C 0.1UF 16V	1	
	C8207	FIJ1A106A087	C 10UF, 10V	1	
	C8208	FI61C104A077	C 0.1UF 16V	1	
	C8210	FI61C104A077	C 0.1UF 16V	1	
	C8212	FI61C104A077	C 0.1UF 16V	1	
	C8215	FI61C104A077	C 0.1UF 16V	1	
	C8216	FIJ1A106A087	C 10UF, 10V	1	
	C8218	FI61C104A077	C 0.1UF 16V	1	
	C8220	FI61C104A077	C 0.1UF 16V	1	
	C8221	FI61C104A077	C 0.1UF 16V	1	
	C8224	FI61C104A077	C 0.1UF 16V	1	
	C8229	FI61A105A047	C 1UF 10V	1	
	C8230	FI61C104A077	C 0.1UF 16V	1	
	C8231	FI61C104A077	C 0.1UF 16V	1	
	C8232	FI61C104A077	C 0.1UF 16V	1	
	C8233	FI61C104A077	C 0.1UF 16V	1	
	C8234	FI61C104A077	C 0.1UF 16V	1	
	C8235	FI61C104A077	C 0.1UF 16V	1	
	C8236	FI61C104A077	C 0.1UF 16V	1	
	C8237	FIJ1A106A087	C 10UF, 10V	1	
	C8238	FI61C104A077	C 0.1UF 16V	1	
	C8240	FI61C104A077	C 0.1UF 16V	1	
	C8242	FI61C104A077	C 0.1UF 16V	1	
	C8245	FI61C104A077	C 0.1UF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C8246	FIJ1A106A087	C 10UF, 10V	1	
	C8248	FI61C104A077	C 0.1UF 16V	1	
	C8250	FI61C104A077	C 0.1UF 16V	1	
	C8251	FI61C104A077	C 0.1UF 16V	1	
	C8254	FI61C104A077	C 0.1UF 16V	1	
	C8259	FI61C104A077	C 0.1UF 16V	1	
	C8260	FI61C104A077	C 0.1UF 16V	1	
	C8261	FI61C104A077	C 0.1UF 16V	1	
	C8300	FI61H9R0A831	C 9 PF, 50V	1	
	C8301	FI61H9R0A831	C 9 PF, 50V	1	
	C8304	FI61A105A047	C 1UF 10V	1	
	C8305	FI61A105A047	C 1UF 10V	1	
	C8306	FI61A105A047	C 1UF 10V	1	
	C8307	FI61A105A047	C 1UF 10V	1	
	C8308	FI61A105A047	C 1UF 10V	1	
	C8309	FI61A105A047	C 1UF 10V	1	
	C8310	FI61A105A047	C 1UF 10V	1	
	C8311	FI61A105A047	C 1UF 10V	1	
	C8312	FI61A105A047	C 1UF 10V	1	
	C8313	FI61A105A047	C 1UF 10V	1	
	C8452	FIJ1A106A087	C 10UF, 10V	1	
	C8453	FI61C104A077	C 0.1UF 16V	1	
	C8454	EEHBOJ221UP	E 220UF, 6.3V	1	
	C8455	FIJ1A106A087	C 10UF, 10V	1	
	C8457	FI61C104A077	C 0.1UF 16V	1	
	C8461	FIJ1A106A087	C 10UF, 10V	1	
	C8462	FIJ1A106A087	C 10UF, 10V	1	
	C8463	FI61C104A077	C 0.1UF 16V	1	
	C8464	FI61C104A077	C 0.1UF 16V	1	
	C8465	EEHBOJ221UP	E 220UF, 6.3V	1	
	C8466	EEHBOJ221UP	E 220UF, 6.3V	1	
	C8467	FIJ1A106A087	C 10UF, 10V	1	
	C8469	FIJ1A106A087	C 10UF, 10V	1	
	C8470	FI61C104A077	C 0.1UF 16V	1	
	C8471	FI61C104A077	C 0.1UF 16V	1	
	C8474	FIJ1A106A087	C 10UF, 10V	1	
	C8475	FI61C104A077	C 0.1UF 16V	1	
	C8477	FIJ1A106A087	C 10UF, 10V	1	
	C8478	FI61C104A077	C 0.1UF 16V	1	
	C8479	FI61C104A077	C 0.1UF 16V	1	
	C8480	FI61C104A077	C 0.1UF 16V	1	
	C8481	FIH1C105A145	C 1 uF 16 V	1	
	C8482	FI61C104A077	C 0.1UF 16V	1	
	C8483	FIH1C105A145	C 1 uF 16 V	1	
	C8484	FI61H120A834	C 12PF, 50V	1	
	C8485	FI61H120A834	C 12PF, 50V	1	
	C8486	FI61C104A077	C 0.1UF 16V	1	
	C8487	FI61C104A077	C 0.1UF 16V	1	
	C8488	FIH1C105A145	C 1 uF 16 V	1	
	C8489	FI61C104A077	C 0.1UF 16V	1	
	C8490	FI61C104A077	C 0.1UF 16V	1	
	C8491	FI61C104A077	C 0.1UF 16V	1	
	C8492	FI61C104A077	C 0.1UF 16V	1	
	C8600	FIL3D1020008	C 1000PF 2000V	1	
	C8601	FI61C1030008	C 0.01UF 16V	1	
	C8602	FI61C1030008	C 0.01UF 16V	1	
	C8603	FI61H8R0A831	C 8 PF, 50V	1	
	C8604	FI61H8R0A831	C 8 PF, 50V	1	
	C8611	FI61C104A077	C 0.1UF 16V	1	
	C8613	FI61C104A077	C 0.1UF 16V	1	
	C8615	FI61C104A077	C 0.1UF 16V	1	
	C8619	FI61C104A077	C 0.1UF 16V	1	
	C8621	FI61C104A077	C 0.1UF 16V	1	
	C8660	FI61C104A077	C 0.1UF 16V	1	
	C8661	FI61C104A077	C 0.1UF 16V	1	
	C8668	FI61C104A077	C 0.1UF 16V	1	
	C8669	FIJ0G2260001	C 22 UF 4 V	1	
	C8670	FIJ0G2260001	C 22 UF 4 V	1	
	C8671	FI61H220A834	C 22PF, 50V	1	
	C8677	FIJ1A106A087	C 10UF, 10V	1	
	C8680	FIJ1A106A087	C 10UF, 10V	1	
	C8714	FIJ1A106A087	C 10UF, 10V	1	
	C8715	FIJ1A106A087	C 10UF, 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C8764	F1H1A105A099	C 1UF, 10V	1	
	C8765	F1H1A105A099	C 1UF, 10V	1	
	C8850	F1G1E1030005	C 0.01UF 25V	1	
	C8900	F1G1C104A077	C 0.1UF 16V	1	
	C8901	F1G1C104A077	C 0.1UF 16V	1	
	C8902	F1G1C104A077	C 0.1UF 16V	1	
	C9500	F1K1H225A252	C 2.2UF, 50V	1	
	C9501	F1J1A475A112	C 4.7UF, 10V	1	
	C9520	F1H1A225A051	C 2.2UF, 10V	1	
	C9522	F2A2C270A235	E 27UF, 160V	1	
	C9527	F1J1E105A287	C 1UF, 25V	1	
	C9528	F1J1E105A287	C 1UF, 25V	1	
	C9529	F1J1A475A112	C 4.7UF, 10V	1	
	C9530	F1H1C273A143	C 0.027UF. 16V	1	
	C9531	F1H1C105A145	C 1 uF 16 V	1	
	C9535	F1J1E475A267	C 4.7UF, 25V	1	
	C9539	F1K2J471A042	C 470PF, 630V	1	
	C9540	F1G1H1020008	C 1000PF 50V	1	
	C9541	F1G1H332A830	C 3300PF, 50V	1	
	C9545	F1G1H222A830	C 2200PF, 50V	1	
	C9548	F1G1A473A069	C0.047UF, 10V	1	
	C9549	F2AZZ560A036	E 56UF, 80V	1	
	C9571	F1L2E104A028	C 0.10UF, 250V	1	
	C9572	F1L2E104A028	C 0.10UF, 250V	1	
	C9573	F2A2C270A235	E 27UF, 160V	1	
	C9575	F1J1E105A287	C 1UF, 25V	1	
	C9576	F1J1E105A287	C 1UF, 25V	1	
	C9577	F1J1A475A112	C 4.7UF, 10V	1	
	C9578	F1H1C273A143	C 0.027UF. 16V	1	
	C9579	F1J1E475A267	C 4.7UF, 25V	1	
	C9580	F1K2J471A042	C 470PF, 630V	1	
	C9581	F1G1H1020008	C 1000PF 50V	1	
	C9582	F1G1H332A830	C 3300PF, 50V	1	
	C9584	F1G1H222A830	C 2200PF, 50V	1	
	C9585	F1G1A473A069	C0.047UF, 10V	1	
	C9586	F2AZZ560A036	E 56UF, 80V	1	
	C9587	F1L2E104A028	C 0.10UF, 250V	1	
	C9588	F1L2E104A028	C 0.10UF, 250V	1	
	C9590	F2A2C270A235	E 27UF, 160V	1	
	C9591	F2A2C270A235	E 27UF, 160V	1	
	C9594	F1H1C105A145	C 1 uF 16 V	1	
	CN0100	K1KA14A00248	CONNECTOR	1	
	CN8660	K1NA12E00016	CONNECTOR	1	
	D2000	DB2J30900L	DIODE	1	
	D2011	DB2J30900L	DIODE	1	
	D2800	B3AGB0000065	LED	1	
	D2880	B3AFB0000471	LED	1	
	D2881	B3AFB0000471	LED	1	
	D2882	B3AFB0000471	LED	1	
	D2883	B3AFB0000471	LED	1	
	D2884	EZAEG2A50AX	FILTER	1	
	D3006	K7AAAY000014	DIODE	1	
	D3100	J0ZZB0000175	DIODE	1	
	D3101	J0ZZB0000175	DIODE	1	
	D3102	J0ZZB0000175	DIODE	1	
	D3104	J0ZZB0000175	DIODE	1	
	D4702	DA2J10100L	DIODE	1	
	D4704	DB2J30900L	DIODE	1	
	D4719	DA2J10100L	DIODE	1	
	D4735	DA2J10100L	DIODE	1	
	D4770	DA2J10100L	DIODE	1	
	D4785	DB2J30900L	DIODE	1	
	D5172	DZ2J220M0L	DIODE	1	
	D5173	DA2J10100L	DIODE	1	
	D5178	DZ2J068M0L	DIODE	1	
	D5179	B0ADCK000001	DIODE	1	
	D5180	DZ2J033M0L	DIODE	1	
	D5187	DZ2J047M0L	DIODE	1	
	D5188	B0ADCK000001	DIODE	1	
	D5191	B0ADCK000001	DIODE	1	
	D8103	B0JCCD000020	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D8716	B0ECKM000053	DIODE	1	
	D8850	DB2J30900L	DIODE	1	
	D9501	DZ2J360M0L	DIODE	1	
	D9502	DZ2J360M0L	DIODE	1	
	D9503	DZ2J360M0L	DIODE	1	
	D9504	DZ2J360M0L	DIODE	1	
	D9505	DZ2J360M0L	DIODE	1	
	D9506	DZ2J360M0L	DIODE	1	
	D9507	DZ2J360M0L	DIODE	1	
	D9508	DZ2J360M0L	DIODE	1	
	D9509	DZ2J360M0L	DIODE	1	
	D9510	DZ2J360M0L	DIODE	1	
	D9511	DZ2J360M0L	DIODE	1	
	D9512	DZ2J360M0L	DIODE	1	
	D9513	DZ2J360M0L	DIODE	1	
	D9514	DZ2J360M0L	DIODE	1	
	D9515	DZ2J360M0L	DIODE	1	
	D9516	DZ2J360M0L	DIODE	1	
	D9517	B0FCAM000001	DIODE	1	
	D9522	B0BC6R2A0337	DIODE	1	
	D9523	DZ2J039M0L	DIODE	1	
	D9524	DB2J41100L	DIODE	1	
	D9525	DB2J41100L	DIODE	1	
	D9526	B0BC6R2A0337	DIODE	1	
	D9527	B0FCAM000001	DIODE	1	
	D9528	B0BC6R2A0337	DIODE	1	
	D9529	DB2J41100L	DIODE	1	
	D9530	DB2J41100L	DIODE	1	
	D9531	B0BC6R2A0337	DIODE	1	
	D9532	DZ2J039M0L	DIODE	1	
	FL4000	J0ZZB0000147	COIL	1	
	FL4001	J0ZZB0000147	COIL	1	
	FL4002	J0ZZB0000147	COIL	1	
	FL4003	J0ZZB0000147	COIL	1	
	FL4004	J0ZZB0000147	COIL	1	
	FL4005	J0ZZB0000147	COIL	1	
	IC2002	C0ABGA000035	IC	1	
	IC3001	C1AB00003385	IC	1	
	IC4900	C1AB00003871	IC	1	
	IC4901	C1AB00003871	IC	1	
	IC5000	AN34043AAVF	IC	1	
	IC5300	C0DBZYY00544	IC	1	
	IC5400	C0DBAYY01299	IC	1	
	IC5420	C0DBAYY01299	IC	1	
	IC5440	C0DBAYY01283	IC	1	
	IC8000	MN2WS0235E	IC	1	
	IC8100	C0DBAYY01286	IC	1	
	IC8101	C0DBAYY01284	IC	1	
	IC8200	C3ABUY000020	IC	1	
	IC8201	C3ABUY000020	IC	1	
	IC8202	C3ABUY000020	IC	1	
	IC8203	C3ABUY000020	IC	1	
	IC8453	C0DBZYY00541	IC	1	
	IC8454	C0DBZYY00541	IC	1	
	IC8455	C0DBZYY00541	IC	1	
	IC8457	C0DBZYY00541	IC	1	
	IC8458	C1CB00003747	IC	1	
	IC8600	C1CB00003736	IC	1	
	IC8660	C0DBEYY00175	IC	1	
	IC8702	C0DBEYY00175	IC	1	
	IC8706	C0DBGYY00887	IC	1	
	IC8900	TVRS840AC	ROM IC (C3FBVY000020)	1	
	IC8902	C3EBHY000030	IC	1	
	IC9500	C1ZBZ0004571	IC	1	
	IC9501	C0ZBZ0001828	IC	1	
	IC9502	C0ZBZ0001828	IC	1	
	JK3001	K2HE2YYB0001	AV TERMINAL	1	
	JK3005	K1FY315B0002	AV TERMINAL	1	
	JK3008	K2HE2YYB0002	AV TERMINAL	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	JK3051	K2HC1YYB0079	AV TERMINAL	1	
	JK4700C	K1FY119E0052	TERMINAL	1	
	JK4701C	K1FY119E0052	TERMINAL	1	
	JK4702C	K1FY119E0052	TERMINAL	1	
	JK4703C	K1FY119E0052	TERMINAL	1	
	JK8450	K1FY104B0081	AV TERMINAL	1	
	JK8451	K1FY104B0081	AV TERMINAL	1	
	JK8452	K1FY104B0081	AV TERMINAL	1	
	JK8600	K2LC1YYE0003	AV TERMINAL	1	
	JS0043	D0GAR00J0005	M 0 OHM, 1/16W	1	
	JS0055	D0GAR00J0005	M 0 OHM, 1/16W	1	
	K10	K1KA08A00506	CONNECTOR	1	
	L2300	J0JHC0000045	COIL	1	
	L3007	G1C100MA0072	COIL	1	
	L3102	J0JYC0000156	INDUCTOR	1	
	L3103	J0JYC0000156	INDUCTOR	1	
	L3111	J0JYC0000156	INDUCTOR	1	
	L3112	J0JYC0000156	INDUCTOR	1	
	L3113	J0JYC0000156	INDUCTOR	1	
	L3116	J0JYC0000156	INDUCTOR	1	
	L3119	J0JYC0000156	INDUCTOR	1	
	L3120	J0JYC0000156	INDUCTOR	1	
	L4901	G1C100MA0533	COIL	1	
	L4902	G1C100MA0533	COIL	1	
	L4903	G1C100MA0533	COIL	1	
	L4904	G1C100MA0533	COIL	1	
	L4905	G1C150MA0533	INDUCTOR	1	
	L4906	G1C150MA0533	INDUCTOR	1	
	L5300	G1C3R3ZA0248	COIL	1	
	L5400	G1C4R7ZA0311	INDUCTOR	1	
	L5420	G1C6R8MA0533	INDUCTOR	1	
	L5440	G1C3R3ZA0311	COIL	1	
	L6707	J0JYC0000070	BEAD CORE	1	
	L6711	J0JYC0000070	BEAD CORE	1	
	L6721	J0JYC0000156	INDUCTOR	1	
	L8001	J0JCC0000287	COIL	1	
	L8002	J0JYC0000464	BEAD CORE	1	
	L8004	J0JKC0000021	BEAD CORE	1	
	L8005	J0JYC0000464	BEAD CORE	1	
	L8006	J0JYC0000464	BEAD CORE	1	
	L8007	J0JYC0000464	BEAD CORE	1	
	L8008	J0JCC0000287	COIL	1	
	L8009	J0JYC0000464	BEAD CORE	1	
	L8010	J0JYC0000464	BEAD CORE	1	
	L8011	J0JYC0000464	BEAD CORE	1	
	L8012	J0JYC0000464	BEAD CORE	1	
	L8013	J0JYC0000464	BEAD CORE	1	
	L8101	G1C2R2ZA0311	INDUCTOR	1	
	L8102	G1C1R0MA0535	INDUCTOR	1	
	L8451	J0ZZB0000142	FILTER	1	
	L8453	J0ZZB0000142	FILTER	1	
	L8455	J0ZZB0000142	FILTER	1	
	L8459	J0ZZB0000142	FILTER	1	
	L8461	J0JHC0000045	COIL	1	
	L8462	J0JHC0000045	COIL	1	
	L8463	J0ZZB0000142	FILTER	1	
	L8464	J0JHC0000045	COIL	1	
	L8466	J0JYC0000464	BEAD CORE	1	
	L8467	J0JHC0000045	COIL	1	
	L8660	J0JBC0000115	BEAD CORE	1	
	L8662	J0JHC0000045	COIL	1	
	L8663	J0JYC0000014	BEAD CORE	1	
	L8664	J0JYC0000014	BEAD CORE	1	
	L9500	G1C330MA0490	INDUCTOR	1	
	L9501	D0GDR00J0004	M 0 OHM, 1/8W	1	
	L9502	G1C330MA0490	INDUCTOR	1	
	L9503	G1C330MA0490	INDUCTOR	1	
	L9513	J0JHC0000075	BEAD COIL	1	
	L9514	G1C330MA0490	INDUCTOR	1	
	L9515	D0GDR00J0004	M 0 OHM, 1/8W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L9516	G1C330MA0490	INDUCTOR	1	
	L9517	G1C330MA0490	INDUCTOR	1	
	L9518	J0JHC0000075	BEAD COIL	1	
	LD1	K1KY20BA0394	CONNECTOR	1	
	LD2	K1KY16BA0394	CONNECTOR	1	
	LD3	K1MN20BA0231	CONNECTOR	1	
	LD4	K1KY10BA0319	CONNECTOR	1	
	LP10	K1KA03A00632	CONNECTOR	1	
	Q2001	B1ADCF000194	TRANSISTOR	1	
	Q2006	B1ABCE000015	TRANSISTOR	1	
	Q2011	B1ABCE000015	TRANSISTOR	1	
	Q2012	B1ABCE000015	TRANSISTOR	1	
	Q2013	B1ABCE000015	TRANSISTOR	1	
	Q2014	B1ABCE000015	TRANSISTOR	1	
	Q2015	B1ADCF000194	TRANSISTOR	1	
	Q3102	B1ABCE000015	TRANSISTOR	1	
	Q3103	B1ABCE000015	TRANSISTOR	1	
	Q4000	B1ABCE000015	TRANSISTOR	1	
	Q4700	B1ABCF000231	TRANSISTOR	1	
	Q4702	B1ABCF000231	TRANSISTOR	1	
	Q4704	B1ABCF000231	TRANSISTOR	1	
	Q4709	B1ABCF000231	TRANSISTOR	1	
	Q4971	B1ABKE000001	TRANSISTOR	1	
	Q4972	B1ABKE000001	TRANSISTOR	1	
	Q4981	B1ABCE000015	TRANSISTOR	1	
	Q5301	B1CFRD000100	TRANSISTOR	1	
	Q5302	B1CFRD000100	TRANSISTOR	1	
	Q8100	B1CFRD000100	TRANSISTOR	1	
	Q8101	B1CFRD000100	TRANSISTOR	1	
	Q9501	B1CFRL000021	TRANSISTOR	1	
	Q9502	B1CFRL000021	TRANSISTOR	1	
	Q9503	B1CFRL000021	TRANSISTOR	1	
	Q9504	B1CFRL000021	TRANSISTOR	1	
	Q9505	B1CFRL000021	TRANSISTOR	1	
	Q9506	B1CFRL000021	TRANSISTOR	1	
	Q9507	B1CFRL000021	TRANSISTOR	1	
	Q9508	B1CFRL000021	TRANSISTOR	1	
	Q9509	B1CFRL000021	TRANSISTOR	1	
	Q9510	B1CFRL000021	TRANSISTOR	1	
	Q9511	B1CFRL000021	TRANSISTOR	1	
	Q9512	B1CFRL000021	TRANSISTOR	1	
	Q9513	B1CFRL000021	TRANSISTOR	1	
	Q9514	B1CFRL000021	TRANSISTOR	1	
	Q9515	B1CFRL000021	TRANSISTOR	1	
	Q9516	B1CFRL000021	TRANSISTOR	1	
	Q9517	B1CFRM000024	TRANSISTOR	1	
	Q9524	B1CFRM000024	TRANSISTOR	1	
	Q9525	B1CFRM000024	TRANSISTOR	1	
	Q9526	B1CFRM000024	TRANSISTOR	1	
	Q9527	B1ABCE000015	TRANSISTOR	1	
	Q9528	B1ABCE000015	TRANSISTOR	1	
	R0903	D0GA272JA023	M 2.7KOHM, J,1/16W	1	
	R0904	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R0905	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0906	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0907	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0910	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R0911	D0GA272JA023	M 2.7KOHM, J,1/16W	1	
	R0912	D0GA272JA023	M 2.7KOHM, J,1/16W	1	
	R0913	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R0914	D0GA101JA023	M 100 OHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R0916	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0917	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0918	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0919	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0932	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0933	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0938	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0940	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0946	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0948	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0951	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0952	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0953	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R0954	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R0955	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R0956	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R0957	D0GA332JA023	M 3.3KOHM, J,1/16W	1	
	R0960	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0961	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R0962	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R0963	D0GA272JA023	M 2.7KOHM, J.1/16W	1	
	R0964	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R0965	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R1951	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R1953	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2000	D0GA563JA023	M 56KOHM, J,0.063W	1	
	R2003	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R2008	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R2009	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R2011	D0GA223JA023	M 22K OHM J 1/16W	1	
	R2012	D0GA471JA023	M 470OHM, J,1/16W	1	
	R2013	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R2014	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R2015	D0GA224JA023	M 220KOHM J 1/16W	1	
	R2016	D0GA122JA023	M 1.2KOHM, J,1/16W	1	
	R2019	D0GF101JA048	M 100 OHM,J,1/3W	1	
	R2020	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2034	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R2035	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R2036	D0GD101JA052	M 100 OHM,J,1/8W	1	
	R2037	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R2039	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2051	D0GA101JA023	M 100 OHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2053	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R2054	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R2055	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2058	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R2059	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2060	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R2061	D0GA223JA023	M 22K OHM J 1/16W	1	
	R2063	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R2068	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2069	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2070	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R2800	D1BA9530A014	M 953 OHM,F. 1/16 W	1	
	R2805	D1BA2261A023	M 2.26 KOHM,F.1/16 W	1	
	R2807	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R2809	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R2884	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3031	D1BB1403A106	M 140KOHM,J.1/10W	1	
	R3032	D1BB1403A106	M 140KOHM,J.1/10W	1	
	R3101	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R3102	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R3103	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3104	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3105	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3121	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3141	D0GF750JA048	M 75 OHM,J,1/3W	1	
	R3157	EXB28V680JX	M 68 OHM 1/32 W	1	
	R3163	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R3164	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R3167	D0GA333JA023	M 33KOHM,J,1/16W	1	
	R3168	D0GA333JA023	M 33KOHM,J,1/16W	1	
	R3171	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R3172	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R3179	D0GA331JA023	M 330 OHM, J,1/16W	1	
	R3180	D0GA331JA023	M 330 OHM, J,1/16W	1	
	R3181	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3182	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3183	D0GD750JA052	M 75 OHM,J,1/8W	1	
	R3184	D0GA333JA023	M 33KOHM,J,1/16W	1	
	R3185	D0GA333JA023	M 33KOHM,J,1/16W	1	
	R3189	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R3193	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R3201	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R3966	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4087	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R4092	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4702	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4708	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4709	D0GA103JA023	M10KOHM, J.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4710	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4711	D0GA102JA023	M1KOHM, J,1/16 W	1	
	R4712	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4715	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4721	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4722	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4723	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4724	D0GA102JA023	M1KOHM, J,1/16 W	1	
	R4725	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4728	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4732	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4734	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4735	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4736	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4737	D0GA102JA023	M1KOHM, J,1/16 W	1	
	R4738	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4739	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R4746	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4747	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4748	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4749	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4750	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4751	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4752	D1BA1600A023	M 160 OHM,F.1/16 W	1	
	R4753	D1BA82R0A014	M 82 OHM,F.1/16 W	1	
	R4763	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4764	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4765	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4766	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4776	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4777	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4788	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4794	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4795	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4796	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4797	D0GA102JA023	M1KOHM, J,1/16 W	1	
	R4798	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R4799	D0GA273JA023	M 27K OHM J ,1/16W	1	
	R4900	D0GFR00J0005	M 0 OHM,J,1/3W	1	
	R4901	D1HY6804A012	NETWORK RESISTER	1	
	R4902	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R4906	D0GA822JA023	M8.2KOHM, J,1/16W	1	
	R4907	D0GA102JA023	M1KOHM, J,1/16 W	1	
	R4908	D0GA102JA023	M1KOHM, J,1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4917	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R4918	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R4955	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4956	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R4973	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4974	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4975	D0GF122JA048	M 1.2K OHM,J,1/3W	1	
	R4976	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R4977	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R4980	D0GB332JA072	M 3.3KOHM,J,1/10W	1	
	R4981	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R4982	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R5002	D0GA683JA023	M 68KOHM, J,1/16W	1	
	R5003	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R5006	D0GA223JA023	M 22K OHM J 1/16W	1	
	R5007	D0GA223JA023	M 22K OHM J 1/16W	1	
	R5009	D1BA5602A023	M 56KOHM,F. 1/16 W	1	
	R5012	D1BA2202A023	M 22KOHM,F. 1/16 W	1	
	R5030	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R5100	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R5101	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R5102	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R5104	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R5152	D0GA222JA023	M 2.2KOHM, J,1/16W	1	
	R5175	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R5181	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R5302	D1BB1962A055	M 19.6KOHM,J,1/10W	1	
	R5303	D0GB102ZA038	M 1KOHM,J,1/10W	1	
	R5304	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R5306	D0GA302JA023	M 3K OHM J ,1/16W	1	
	R5307	D0GA132JA023	M 1.3KOHM, J,0.063W	1	
	R5308	D0GA392JA023	M 3.9KOHM, J,1/16W	1	
	R5309	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R5311	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R5401	D1BA2202A023	M 22KOHM,F. 1/16 W	1	
	R5402	D0GB911ZA037	M 910 OHM,J,1/10W	1	
	R5403	D1BB2871A106	M 2.87 KOHM,F.1/10 W	1	
	R5421	D1BA3302A023	M 33KOHM,F. 1/16 W	1	
	R5422	D0GB911ZA037	M 910 OHM,J,1/10W	1	
	R5423	D1BB4871A106	M 4.87 KOHM,F.1/10 W	1	
	R5442	D1BB1301A195	M 1.3KOHM,J,1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5443	D1BB7501A195	M 7.5 KOHM,F.1/10 W	1	
	R6726	D0GA681JA023	M680 OHM, J,1/16W	1	
	R6727	D0GA681JA023	M680 OHM, J,1/16W	1	
	R6731	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R6732	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8005	D0GA1R1JA023	M 1.1OHM, J,1/16W	1	
	R8010	D0GA331JA023	M 330 OHM, J,1/16W	1	
	R8111	D1BB2001A197	M 2 KOHM,F.1/10 W	1	
	R8112	D1BB2001A197	M 2 KOHM,F.1/10 W	1	
	R8116	D1BB1961A087	M 1.96 KOHM,F.1/10 W	1	
	R8117	D1BB1051A087	M 1.05 KOHM,F.1/10 W	1	
	R8119	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R8120	D0GA363JA023	M 36KOHM,J,1/16W	1	
	R8121	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R8200	D1BA2400A023	M 240 OHM,F.1/16 W	1	
	R8203	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8204	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8205	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8206	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8207	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8208	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8217	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8218	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8219	D1BA2400A023	M 240 OHM,F.1/16 W	1	
	R8220	D1BA2400A023	M 240 OHM,F.1/16 W	1	
	R8221	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8230	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8231	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8232	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8233	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8234	D1BA2400A023	M 240 OHM,F.1/16 W	1	
	R8235	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8236	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8237	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8238	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8239	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8240	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8241	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8242	D0GA221JA023	M220 OHM, J.1/16 W	1	
	R8243	D1BA2400A023	M 240 OHM,F.1/16 W	1	
	R8244	D1BA2400A023	M 240 OHM,F.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8245	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8250	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8251	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8252	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8253	D1BA2700A023	M 270 OHM,F.1/16 W	1	
	R8254	D1HY2208A012	NETWORK RESISTER	1	
	R8255	D1HY2208A012	NETWORK RESISTER	1	
	R8256	D1HY2204A012	NETWORK RESISTER	1	
	R8257	D1HY4704A012	NETWORK RESISTER	1	
	R8258	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R8259	D1HY2208A012	NETWORK RESISTER	1	
	R8260	D1HY2208A012	NETWORK RESISTER	1	
	R8261	D1HY2204A012	NETWORK RESISTER	1	
	R8262	D1HY4704A012	NETWORK RESISTER	1	
	R8263	D0GA220JA023	M22 OHM, J.1/16 W	1	
	R8300	D0GA471JA023	M 470OHM, J,1/16W	1	
	R8301	D0GA360JA023	M 36 OHM, J,1/16W	1	
	R8302	D0GA360JA023	M 36 OHM, J,1/16W	1	
	R8303	D1BA6201A023	M 6.2 KOHM,F.1/16 W	1	
	R8304	D1BA6201A023	M 6.2 KOHM,F.1/16 W	1	
	R8418	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8441	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8446	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8447	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8450	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8451	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8452	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8453	D1BA3742A014	M 37.4KOHM,F. 1/16 W	1	
	R8454	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8455	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8456	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R8457	D1BA1822A023	M 18.2KOHM,F.1/16 W	1	
	R8458	D1BA3742A014	M 37.4KOHM,F. 1/16 W	1	
	R8459	D1BA3742A014	M 37.4KOHM,F. 1/16 W	1	
	R8460	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8469	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8470	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8472	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R8482	D1BA6200A014	M 620 OHM,F.1/16 W	1	
	R8483	D1BA30R0A014	M 30 OHM,J.1/16 W	1	
	R8485	D0GAR00J0005	M 0 OHM, 1/16W	1	
	R8486	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8487	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8488	D0GA104JA023	M100KOHM, J.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8490	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8493	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8505	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R8601	D1BA75R0A023	M 75.0 OHM,F.1/16 W	1	
	R8602	D1BA75R0A023	M 75.0 OHM,F.1/16 W	1	
	R8603	D1BA75R0A023	M 75.0 OHM,F.1/16 W	1	
	R8604	D1BA75R0A023	M 75.0 OHM,F.1/16 W	1	
	R8611	D1BA2491A023	M 2.49KOHM,F.1/16W	1	
	R8612	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8613	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8614	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8616	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8617	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8620	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8622	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8623	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8624	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8625	D0GA152JA023	M 1.5KOHM, J,1/16W	1	
	R8626	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8627	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8629	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8630	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8631	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8634	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8635	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8636	D0GA680JA023	M 68 OHM, J,1/16W	1	
	R8637	D0GBR00J0004	M 0 OHM J 1/10W	1	
	R8660	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8661	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8662	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8663	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8664	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8665	D0GA560JA023	M 56 OHM, J,1/16W	1	
	R8666	D1HY1038A012	NETWORK RESISTER	1	
	R8667	D1HY5604A012	NETWORK RESISTER	1	
	R8668	D1HY5604A012	NETWORK RESISTER	1	
	R8669	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R8673	D1BA7501A023	M 7.5 KOHM,F.1/16 W	1	
	R8674	D1BA2401A023	M 2.4KOHM,F.1/16W	1	
	R8755	D0GA104JA023	M100KOHM, J.1/16 W	1	
	R8797	D1BA1302A023	M 13KOHM,F.1/16W	1	
	R8798	D1BA1002A023	M 10KOHM,F.1/16W	1	
	R8799	D0GA102JA023	M1KOHM, J.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8800	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8801	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8802	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8803	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8809	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8811	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8817	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8821	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8822	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8823	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8824	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8825	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8826	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8827	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8828	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8829	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8831	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8832	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8833	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8837	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8838	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8839	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8840	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8841	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8842	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8843	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8845	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8846	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8847	D0GA103JA023	M10KOHM, J.1/16 W	1	
	R8849	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8850	D0GA331JA023	M 330 OHM, J,1/16W	1	
	R8851	D1BB7151A106	M 7.15 KOHM,F.1/10 W	1	
	R8852	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8853	D0GA182JA023	M 1.8KOHM, J,0.063W	1	
	R8854	D0GA102JA023	M1KOHM, J.1/16 W	1	
	R8858	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8859	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8862	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8863	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8864	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8865	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8866	D0GA473JA023	M 47KOHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8867	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8868	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8869	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8870	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8872	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8874	D0GA103JA023	M10KOHM, J.1/16W	1	
	R8875	D0GA103JA023	M10KOHM, J.1/16W	1	
	R8876	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8877	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8878	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8879	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8902	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R8904	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R8909	D0GA222JA023	M 2.2KOHM, J,1/16W	1	
	R8910	D0GA103JA023	M10KOHM, J.1/16W	1	
	R8911	EXB2HV121JV	NW	R(x 18)	
	R9500	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9501	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9502	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9503	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9504	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9505	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9506	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9507	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9508	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9509	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9510	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9511	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9512	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9513	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9514	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9515	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9516	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9517	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9518	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9519	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9520	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9521	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9522	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9523	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9524	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9525	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9526	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9527	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9528	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	
	R9529	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9530	D1BB3R30A055	M 3.3 OHM,J,1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9531	D0GD105JA052	M 1M OHM, J,1/8W	1	
	R9548	D0GD1R0JA035	M 1.0 OHM,J,1/4W	1	
	R9549	D0GA472JA023	M 4.7KOHM, J,1/16W	1	
	R9550	D0GA103JA023	M10KOHM, J.1/16W	1	
	R9551	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9553	D0GA103JA023	M10KOHM, J.1/16W	1	
	R9554	D0GD134JA052	M 130KOHM,J,1/8W	1	
	R9555	D0GD134JA052	M 130KOHM,J,1/8W	1	
	R9556	D0GD474JA052	M 470KOHM,J,1/8W	1	
	R9557	D0GD680JA059	M 680HM,J,1/4W	1	
	R9558	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9569	D1BA3002A023	M 30KOHM,F. 1/16W	1	
	R9571	D1BA1202A023	M 12KOHM,F. 1/16W	1	
	R9572	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9573	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9574	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9575	D0GD103JA052	M 10KOHM,J,1/8W	1	
	R9576	D1BA3003A014	M 300KOHM,F. 1/16 W	1	
	R9577	D0GA334JA023	M 330KOHM, J1/16W	1	
	R9578	D0GA684JA023	M 680KOHM, J,1/16W	1	
	R9579	D0GB562JA041	M 5.6KOHM,J,1/10W	1	
	R9580	D1BA1203A023	M 120KOHM,F. 1/16 W	1	
	R9581	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9582	D0GA103JA023	M10KOHM, J.1/16W	1	
	R9588	D0GD150JA052	M 15 OHM,J,1/8W	1	
	R9590	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9591	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9592	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9593	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9594	D0GA684JA023	M 680KOHM, J,1/16W	1	
	R9597	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R9598	D0GA103JA023	M10KOHM, J.1/16W	1	
	R9599	D0GD134JA052	M 130KOHM,J,1/8W	1	
	R9600	D0GD134JA052	M 130KOHM,J,1/8W	1	
	R9601	D0GD680JA059	M 680HM,J,1/4W	1	
	R9602	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9603	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9604	D0GD474JA052	M 470KOHM,J,1/8W	1	
	R9605	D0GD680JA059	M 680HM,J,1/4W	1	
	R9606	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9607	D1BA3002A023	M 30KOHM,F. 1/16W	1	
	R9609	D1BA1202A023	M 12KOHM,F. 1/16W	1	
	R9610	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9611	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9612	D1BD2003A066	M 200KOHM.F.1/8W	1	
	R9613	D0GD103JA052	M 10KOHM,J,1/8W	1	
	R9614	D1BA3003A014	M 300KOHM,F. 1/16 W	1	
	R9615	D0GA334JA023	M 330KOHM, J1/16W	1	
	R9616	D0GA684JA023	M 680KOHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9617	D0GB562JA041	M 5.6KOHM,J,1/10W	1	
	R9618	D0GD150JA052	M 15 OHM,J,1/8W	1	
	R9619	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9620	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9621	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9622	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9623	D0GA684JA023	M 680KOHM, J,1/16W	1	
	R9625	D0GA101JA023	M 100 OHM, J,1/16W	1	
	R9626	D0GD680JA059	M 68OHM,J,1/4W	1	
	R9627	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9628	D0GFR20JA020	M 0.2 OHM, J,1/4W	1	
	R9629	D0GD470JA059	M 47 OHM,J,1/4W	1	
	R9630	D0GD470JA059	M 47 OHM,J,1/4W	1	
	R9631	D0GD470JA059	M 47 OHM,J,1/4W	1	
	R9632	D0GD470JA059	M 47 OHM,J,1/4W	1	
	R9633	D1BA1203A023	M 120KOHM,F. 1/16 W	1	
	R9634	D0GA473JA023	M 47KOHM, J,1/16W	1	
	R9635	D0GA103JA023	M10KOHM, J.1/16W	1	
	R9705	D0GBR00J0004	M 0 OHM J 1/10W	1	
	R9712	D0GBR00J0004	M 0 OHM J 1/10W	1	
	SN2800	B3JB00000116	PHOTO DETECTOR	1	
	T8600	G5BYC0000040	TRANSFORMER	1	
△	TU6705	ENVS9302D5F	TUNER	1	
	X8300	H0J245500110	CRYSTAL RESONATOR	1	
	X8450	H0J120500062	CRYSTAL OSC	1	
	X8600	H0J250500120	CRYSTAL OSCILLATOR	1	
	ZA0054	K4AD01D00008	TERMINAL	1	