

Service Manual



LCD Television

TX-L32ET5B

TX-L32ET5Y

TX-LR32ET5

LA35 Chassis

Specifications

Power Source:	220-240V AC, 50 / 60Hz		
Rated Power Consumption:	82W		
Stand-by Power Consumption:	0.30W		
Aerial Impedance:	75Ω unbalanced, Coaxial Type		
Receiving System:	L32ET5B (UK)		
	DVB-T/T2	Digital terrestrial services via UHF aerial input (MPEG2 and MPEG4-AVC(H.264))	
	PAL I	UHF E21-E68	
	PAL 525/60	(AV only)	
	M.NTSC	(AV only)	
	NTSC	(AV only)	
	L32ET5B (Ireland)		
	DVB-T	Digital terrestrial services (MPEG2 and MPEG4-AVC(H.264))	
	PAL I	VHF A-J	
		UHF E21-E69	
		CATV S1-S20	
		CATV S21-S41(Hyperband)	
	PAL 525/60	(AV only)	
	M.NTSC	(AV only)	
	NTSC	(AV only)	
	L32ET5Y		
	DVB-T/T2	Digital terrestrial services (MPEG2 and MPEG4-AVC(H.264))	
	DVB-C	Digital cable services (MPEG2 and MPEG4-AVC(H.264))	
	PAL I/H, B/G,		
	SECAM B/G, L/L'	VHF E2-E12	VHF H1-H2 (ITALY)
		VHF A-H (ITALY)	UHF E21-E69
		CATV (S01-S05)	CATV S1-S10(M1-M10)
		CATV S11-S20 (U1-U10)	CATV S21-S41 (HYPERBAND)
	PAL D/K,		
	SECAM D/K		
		VHF R1-R2	VHF R3-R5
		VHF R6-R12	UHF E21-E69
	PAL 525/60	(AV only)	
	M.NTSC	(AV only)	
	NTSC	(AV only)	

	LR32ET5 DVB-T/T2 DVB-C PAL D/K, SECAM D/K PAL 525/60 M. NTSC NTSC	Digital terrestrial services (MPEG2 and MPEG4-AVC(H.264)) Digital cable services (MPEG2 and MPEG4-AVC(H.264)) VHF R1-R2 VHF R6-R12 (AV only) (AV only) (AV only) VHF R3-R5 UHF E21-E69
Aerial - Rear:	L32ET5B (UK) UHF	L32ET5B (Ireland) / L32ET5Y / LR32ET5 VHF/UHF
Operating Conditions:	Temperature: 0°C ÷ 35°C Humidity: 20% ÷ 80% RH (non condensing)	
Terminals:		
AV1 IN	Video (21 pin) Audio (21 pin) RGB (21 pin)	1V p-p 75Ω 500mV rms 10kΩ 0.7V p-p 75Ω
AV1 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV2 IN (COMPONENT/VIDEO)	Video (RCAx1) Audio (RCAx2) Video (RCAx3)	1V p-p 75Ω 500mV rms 10kΩ (used for HDMI_ with the supplied AV cable) Y:1V p-p 75Ω (including synchronization) Pb, Pr: ±0.35V p-p 75Ω
HDMI1, HDMI2, HDMI3, HDMI4	Type A Connectors HDMI 1/3/4 :3D, Content Type, Deep Colour HDMI 2 :3D, Content Type, Audio Return Channel, Deep Colour This TV supports "HDAVI Control 5" function.	
DIGITAL AUDIO OUT	PCM / Dolby digital / DTS, Fiber optic	
USB 1/2/3	USB 2.0 DC 5V Max 500mA	
PC	HIGH-DENSITY D_SUB 15PIN R,G,B: 700mV p-p 75Ω HD,V,D/TTL Level 2-5V p-p (high impedance)	
ETHERNET	RJ45, IEEE802.3 10BASE-T / 100BASE-TX	
CARD SLOT	SD CARD slot x1 Common interface slot (Complies with CI+) x1	
Wireless LAN:	IEEE802.11a/n , IEEE802.11b/g/n	
Standard Compliance		
Frequency Range	IEEE802.11a/n: 5.180 GHz – 5.320 GHz 5.500 GHz – 5.580 GHz 5.660 GHz – 5.700 GHz IEEE802.11b/g/n: 2.412 GHz – 2.472 GHz	
Security	WPA2-PSK (TKIP/AES) WPA-PSK (TKIP/AES) WEP(64 bit/128 bit)	
3D Eyewear:		
Dimensions (W x H x D)	149mm x 44mm x 171mm	
Mass	18g	
Lens Type	Circularly-polarised filter	
Usage Temperature Range	0°C ÷ 40°C	
Materials	Main body / Lens section: Resin	
LCD screen:	L5EDDYY00364 1920 x 1080, 16:9 Visible Diagonal 800mm	
Audio Output:	20W (2 x 10W)	
Headphones:	3.5mm, 8Ω Impedance	
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries SCART Cable AV Cable	

Dimensions:

	Width:	Height:	Depth:
Including TV stand	764mm	519mm	230m
TV set only	764mm	473mm	52mm

Mass:

Including TV stand	11.5kg
TV set only	9.5kg

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

This equipment complies with the EMC standards listed below:

EN55013, EN61000-3-2, EN61000-3-3, EN55020, EN55022, EN55024

 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 deal within this service information by anyone else could result in serious injury or death.

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Safety Precautions

General Guide Lines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following touch current checks to prevent the customer from being exposed to shock hazards.
4. Always ensure cover label TBM4GU113 is correctly replaced before returning to customer (see Fig.1).



Fig. 1

Touch-Current Check

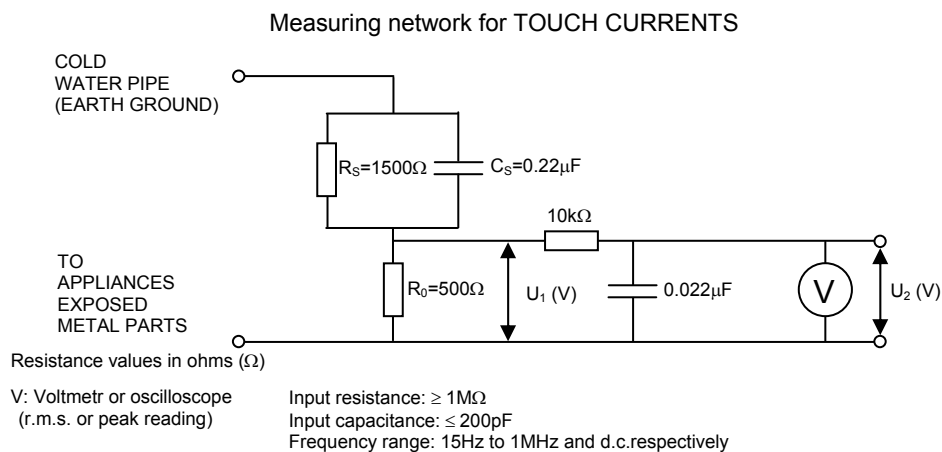
1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Fig. 2.
3. Use Leakage Current Tester (Simpson 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.



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

Fig. 2

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 build up 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 harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in schematic diagrams, exploded views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

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

 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 Fig.3)

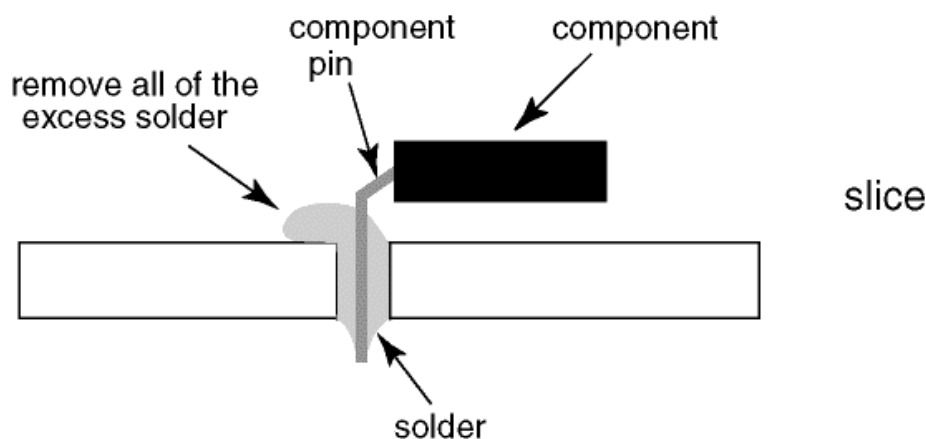


Fig.3

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. (see Fig.4)

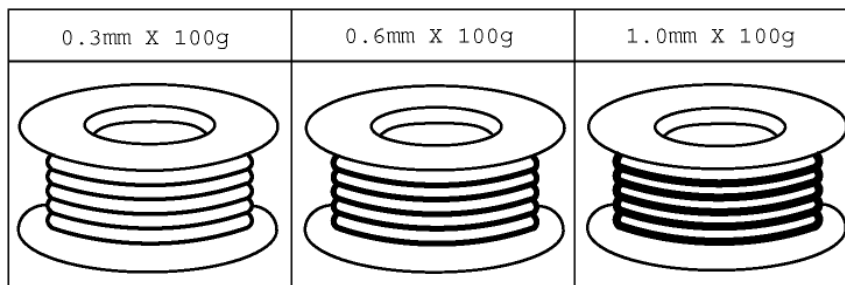


Fig.4

Applicable Signals

Component (Y, Pb, Pr) (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		*
1,125 (1,080) / 50p		*
1,125 (1,080) / 24p		*

PC (from D-sub 15P)

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

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 @60Hz	31.44	59.89
1,024 × 768 @60Hz	48.36	60.00
1,280 × 768 @60Hz	47.70	60.00
1,280 × 1,024 @60Hz	63.98	60.02
1,366 × 768 @60Hz	48.39	60.04

PC (from HDMI terminal)

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

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 @60Hz	67.50	60.00

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 be possible to show fine detail with sufficient clarity.

Service Hints

How to remove the backcover

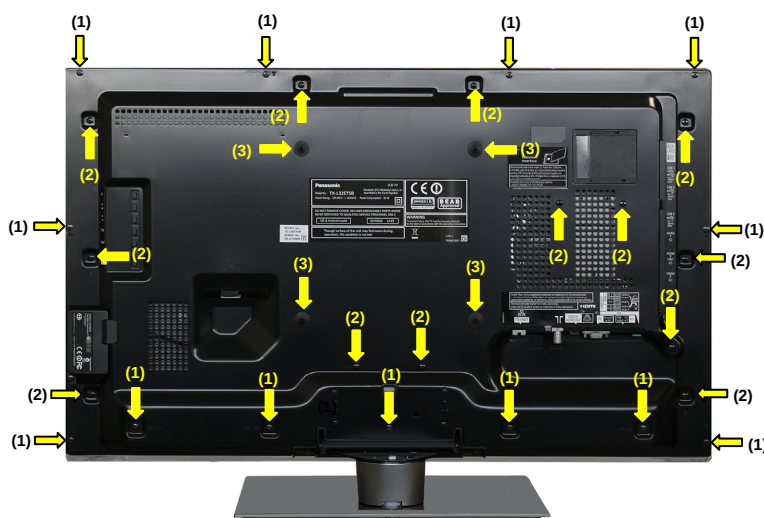
Remove the 4 fixing screws, the 1 fixing screw and WIFI DONGLE. (see Fig.5)



SCREWS
(1) THTD030J /1pcs/
(4) XYN4+F25FJK /4pcs/

Fig.5

Remove the 26 fixing screws, 4 caps and the backcover. (see Fig.6)



SCREWS
(1) THTD030J /13pcs/
(2) THEC1509 /13pcs/
(3) TKKL5521 /4pcs/

Fig.6

How to remove the pedestal assembly.

Lay the main unit face down. (see Fig.7)

Remove the 4 fixing screws and the pedestal assembly. (see Fig.8)



Fig.7

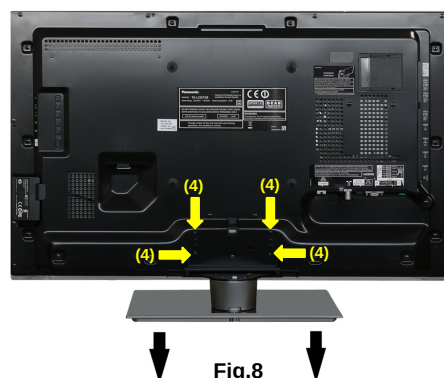
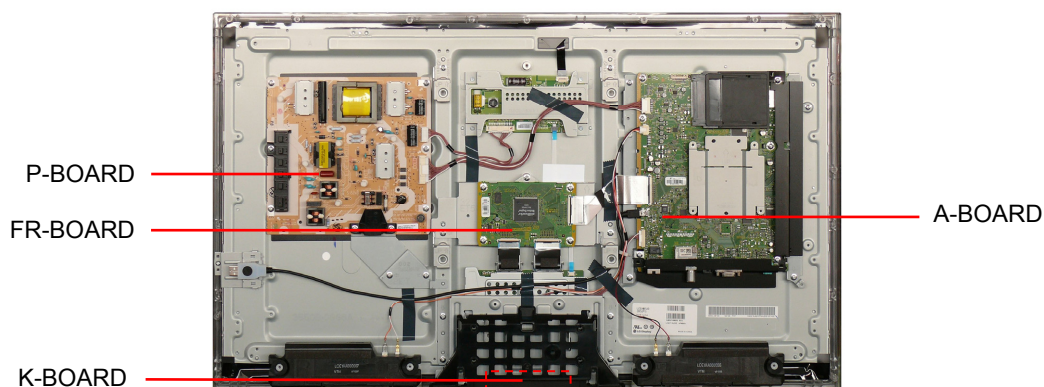


Fig.8

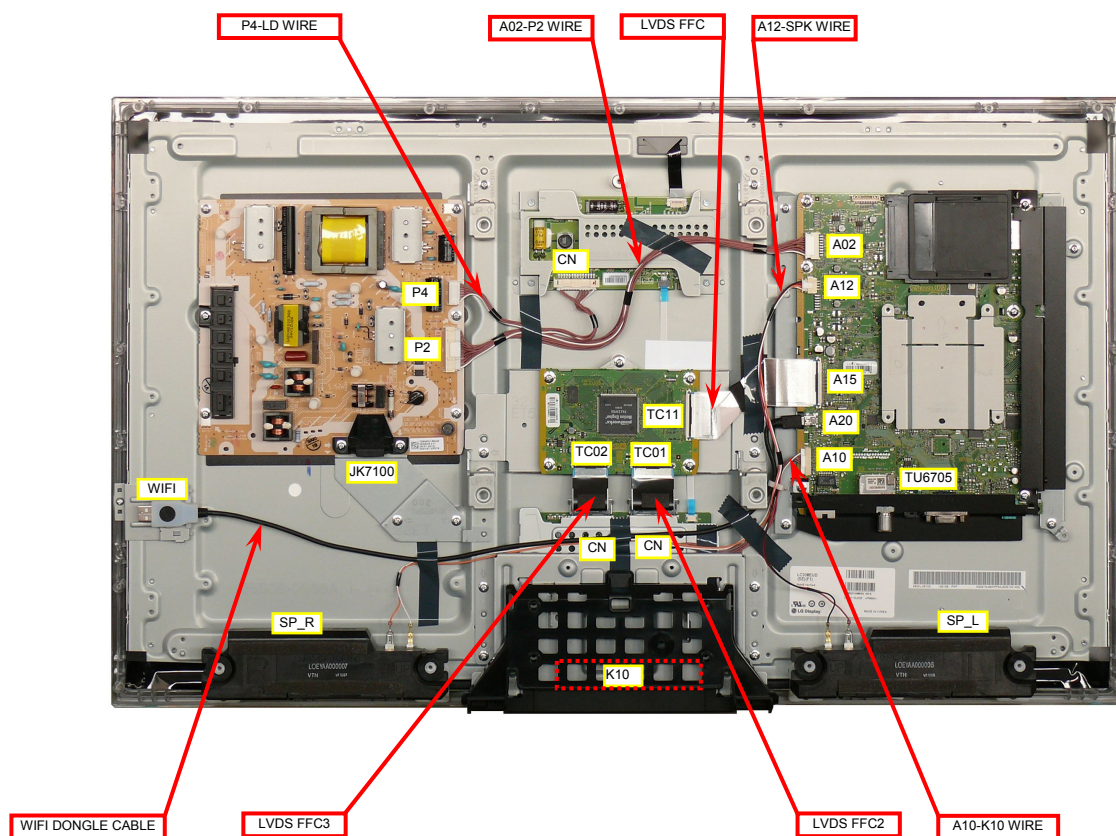
Chassis Board Layout



Board Name	Function
A-Board	AV Terminal, HDMI, HDMI Switch, USB, USB HUB, Digital Audio Out, Tuner DVB-T/T2/C, DVB-T/T2/C Dem, SD Card, CI slot, PC, Ethernet, Wireless LAN, Peaks IC, Speaker out, EEPROM, Flash Memory, DDR SDRAM
FR-Board	Image Processor, SPI Flash
P-Board	Main Input, Power Supply, Key control, Power switch
K-Board	Remote Receiver, Power and Timer LED, C.A.T.S

Location of Lead Wiring

To find the Part Number of required wire in Replacement Parts List click on the wire name in red box.



Technical Description

Specification of KEY for CI Plus, DTCP-IP, One-to-One, Widevine and Netflix

General information:

1. EEPROM (IC8902) for spare parts has the seed of KEY for each.
2. The final KEY data will be generated by LDA4 IC (IC8000) when SELF CHECK was done and are stored in both LDA4 IC (IC8000) and EEPROM (IC8902).
All KEYS are not generated for all models.
The necessary KEY are only generated and stored depend on the feature of models.

Replacement of ICs:

When LDA4 IC (IC8000) is replaced, EEPROM (IC8902) should be also replaced with new one the same time.

When EEPROM (IC8902) is replaced, LDA4 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 the **STATUS**  button on the remote control for more than 3 seconds.

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

Model and Keys:

Model No.	Keys				
	CI PLUS	DTCP-IP	One-to-One (for USB Rec.)	Widevine	Netflix
TX-L32ET5B	Yes	Yes	None	Yes	Yes
TX-L32ET5Y	Yes	Yes	None	Yes	Yes
TX-LR32ET5	Yes	None	None	Yes	Yes

USB HDD Recording:

General information:

Digital TV programmes can be recorded in USB HDD.

A One-to-One key generated in A-board by SELF CHECK binds TV and USB-HDD for communication.

That key is only one key for them. If the key is difference, TV can not access USB-HDD.

Caution:

New key will be generated by following SELF CHECK and previous TV programmes recorded in USB HDD will not be viewed.

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

Setting Inspection

Voltage Confirmation

A board			
Description	Test point	Voltage	
SUB1.1V	TP8100	1.10V - 1.22V	
SUB 1.5 V	TP8101	1.435V - 1.585V	
SUB1.8V	TP8700	1.7V – 1.9V	
SUB3.3V	TP5400	3.17V – 3.43V	
SUB5V	TP5420	4.80V - 5.25V	
USB5V	TP5440	4.94V – 5.40V	
FE1.2V	TP5780	1.14V – 1.26V	
PNL12V	TP4004 (TP4005)	11.5V – 12.9V	
P board			
Description	Test point	Voltage*	Voltage**
24V (PANEL)	TP7512/TP7513	<1V	24V ± 1.2V
16V	TP7508/TP7514	<1V	15.7V ± 0.8V
5VS	TP7507/TP7412	5.25V ± 0.25V	5.25V ± 0.25V
PFC	TP7201 and GND	<340V	390V ± 15V
	TP7203***		

* Connect AC 230V to JK7100 connector

** Connect DC 2.5V to TV_SUB_ON P2 connector – pin 7 /TP7506/ from voltage divider.

***Beware, for testing of PFC use the GND (TP7203) in Hot area of P board – risk of electric shock!

Self Check

Self-check is used to automatically check the bus lines and hexadecimal code of the TV set. To enter Self-Check mode, keep pressing the down **(-V)** button on the TV set and press the **STATUS**  button on the remote control. To exit Self Check, switch off the TV set at the power button.

TX-L32ET5B

32FHD		Panasonic 2012LCD Self Check Complete	
TUN	O.K.	PEAKS-SOFT	1.213
STBY	O.K.	PEAKS-EEP	01.03.0052
MEM1	O.K.	LSI-PACKAGE	2.424
MEM2	O.K..	LSI-RELEASE	1.14
FRC	O.K.	STBY-SOFT	1.03.02
LAN	O.K.	STBY-EEP	1.00.0013
FE	O.K.	STBY-ROMCORR	0.00.00
ID	O.K.	FRC-SOFT	00000520
ID2	O.K.		
HDMI-SW	O.K.		
WiFi	O.K.		
		SUM	C23E
		MODEL ID	09 03307100 00000004

TX-L32ET5Y

32FHD		Panasonic 2012LCD Self Check Complete	
TUN	O.K.	PEAKS-SOFT	1.213
STBY	O.K.	PEAKS-EEP	01.04.0018
MEM1	O.K.	LSI-PACKAGE	2.424
MEM2	O.K..	LSI-RELEASE	1.14
FRC	O.K.	STBY-SOFT	1.03.02
LAN	O.K.	STBY-EEP	1.00.0013
FE	O.K.	STBY-ROMCORR	0.00.00
ID	O.K.	FRC-SOFT	00000520
ID2	O.K.		
HDMI-SW	O.K.		
WiFi	O.K.		
		SUM	C20D
		MODEL ID	09 03327100 00000004

TX-LR32ET5

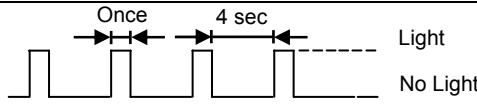
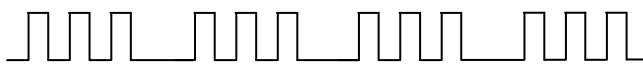
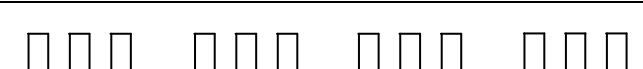
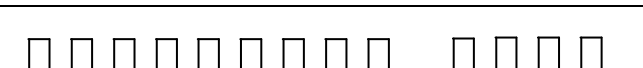
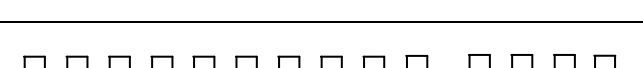
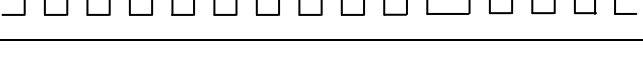
32FHD		Panasonic 2012LCD Self Check Complete	
TUN	O.K.	PEAKS-SOFT	1.213
STBY	O.K.	PEAKS-EEP	01.04.0043
MEM1	O.K.	LSI-PACKAGE	2.424
MEM2	O.K..	LSI-RELEASE	1.14
FRC	O.K.	STBY-SOFT	1.03.02
LAN	O.K.	STBY-EEP	1.00.0013
FE	O.K.	STBY-ROMCORR	0.00.00
ID	O.K.	FRC-SOFT	00000520
ID2	O.K.		
HDMI-SW	O.K.		
WiFi	O.K.		
		SUM	C14B
		MODEL ID	09 03357100 00000004

Display	Ref. No.	Description	P.C.B.
TUN	TU6705	TUNER	A-Board
STBY	IC8000	Peaks-LDA4	A-Board
MEM1	IC8900	NAND FLASH MEMORY	A-Board
MEM2	IC8902	EEPROM PEAKS LDA4	A-Board
FRC	IC9100	IMAGE PROCESSOR	FR-Board
LAN	IC8600	ETHERNET IF	A-Board
FE	IC6900	DVB-T/T2 DEMODULATOR	A-Board
ID	IC8902	CI+, DTCP-IP, C2mod	A-Board
ID2	IC8902	WIDEVINE , Netflix	A-Board
HDMI SW	IC4700	HDMI SWITCH	A-Board
WiFi	IC8458 N5HBZ0000064	USB HUB WIFI DONGLE	A-Board Wifi Dongle

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

Power LED blinking timing chart

1. Subject
Information of LED Flashing timing chart.
2. Contents
When 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 number of blinking of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents	Check point
1		BL_SOS	A BOARD
3		IROM SOS	A BOARD
7		SUB3.3V_SENSE_SOS	A BOARD
8		SOS	A BOARD
9		SOUND_SOS	A BOARD
10		FRC_SOS	FR BOARD
12		BE_SOS	A BOARD
13		EMERGENCY	A BOARD

Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Menu

How to enter SERVICE

While pressing (-/v) button on the TV unit, press **0** on the remote control for 3 times within 2 seconds.

Note:

To exit from Service mode, press the exit button on remote control.

SERVICE

SERVICE	Peaks SOFT	1.213	OPTION 1	14
ADJUST	Peaks EEP	01.03.0052	OPTION 2	ee
WB-ADJ	LSI PACKAGE	2.424	OPTION 3	01
OPTION	LSI DATA	1.00.14	OPTION 4	11
SRV-TOOL	STBY SOFT	1.03.02	MODEL ID	09
DRV CHECK	STBY EEP	1.00.0013		03307100
	STBY ROMCOR	0.00.00		00000004
	FRC SOFT	0520	R/E Cnt	000/000
	AJAX-CE	0.44.7	INV Cnt	0000
			AVSW	--

Key Command

- Press the **3/4** button to change the adjustment values or function.
- Press the **1/2** button to step up/down through the functions and adjustments
- Press the numerical button **VOLUME (+/-)** to change of each option item.
- Press the **OK** button after each adjustment has been made to store the required values.



Service Tool Mode

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:005a0910	
Display of Flash ROM maker code →	Flash ROOM: AD – F1	
Display of SOS History →	PTCT:00.00.00.00.00	Time 00051:30 On/Off 0000042

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

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].

Power ON Time, On/Off

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

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

On/Off: Number of On/Off switching by decimal.

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

Exit

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

Hotel Mode

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

Then, the Hotel mode setup menu is displayed.

Hotel mode	
Hotel mode	Off
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum VOL Level	Off
Button Lock	Off
Remote Lock	Off
Private Information	Keep

3. To exit the "Hotel mode" menu press the EXIT button on remote control.
4. Explain the Hotel mode setup menu.

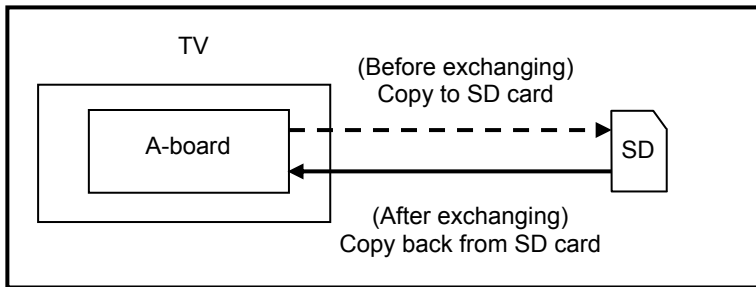
ITEM	Function
Hotel Mode	Select hotel mode ON/OFF
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection: Off/Analog/DVB (B)/DVB-C(Y/LR)/DVB-T(Y/LR)/AV1/AV2/PC/HDMI1/HDMI2/HDMI3/HDMI4 *Off: give priority to the last memory. However, Euro Model is compulsorily set to TV. *AVnS/AVnC: only Euro model selectable * PC:selectable with VGA option
Initial POS	Select programme number. Selection: Off/0 to 99 *Off: give priority to the 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 the 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. Selected" 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

Data Copy by SD Card

Purpose

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

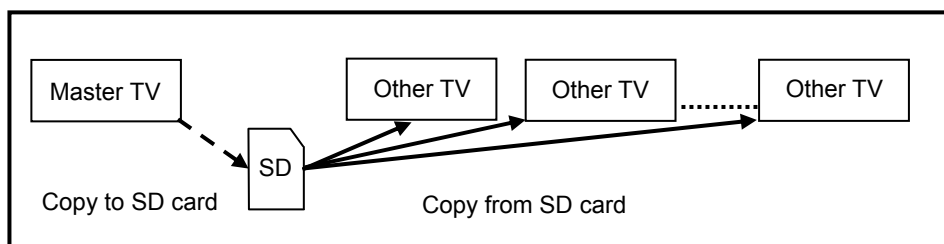
When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



Following data can be copied.
User setting data
(inc. Hotel mode setting data)
Channel scan data
Adjustment and factory preset data

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 the copy to other TVs.



Following data can be copied.
User setting data
(inc. Hotel mode setting data)
Channel scan data

Preparation

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

1. Insert an 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 (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 be in SD card.

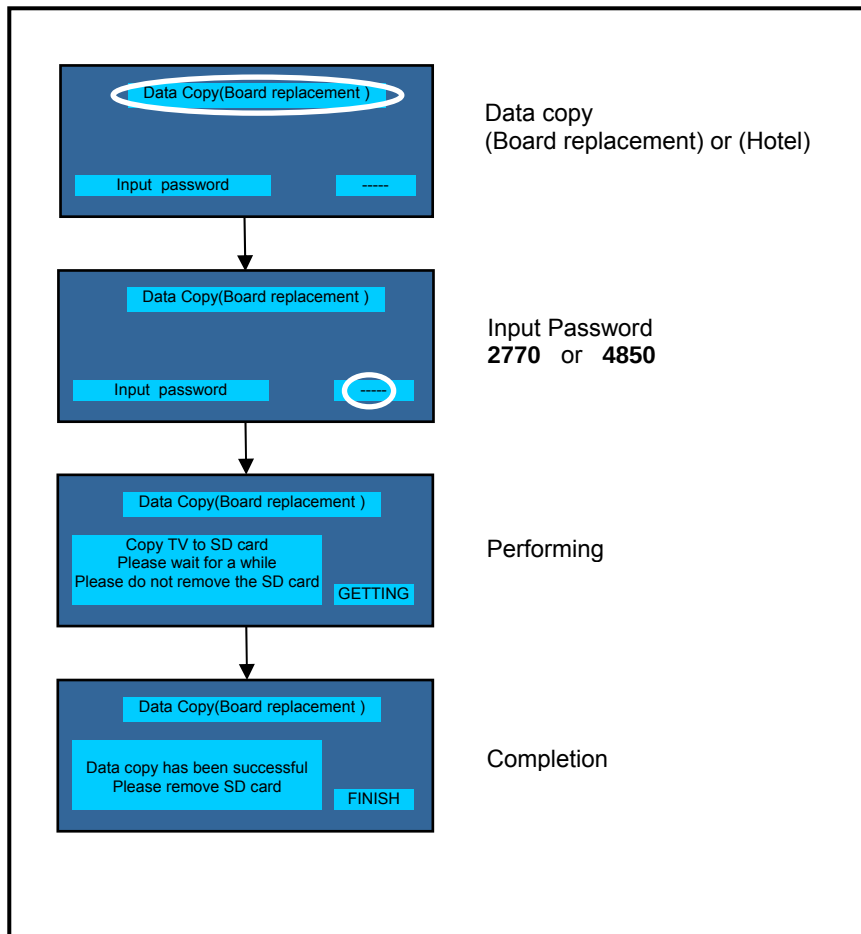
Data Copy from TV set to SD Card

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: 4850Data 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

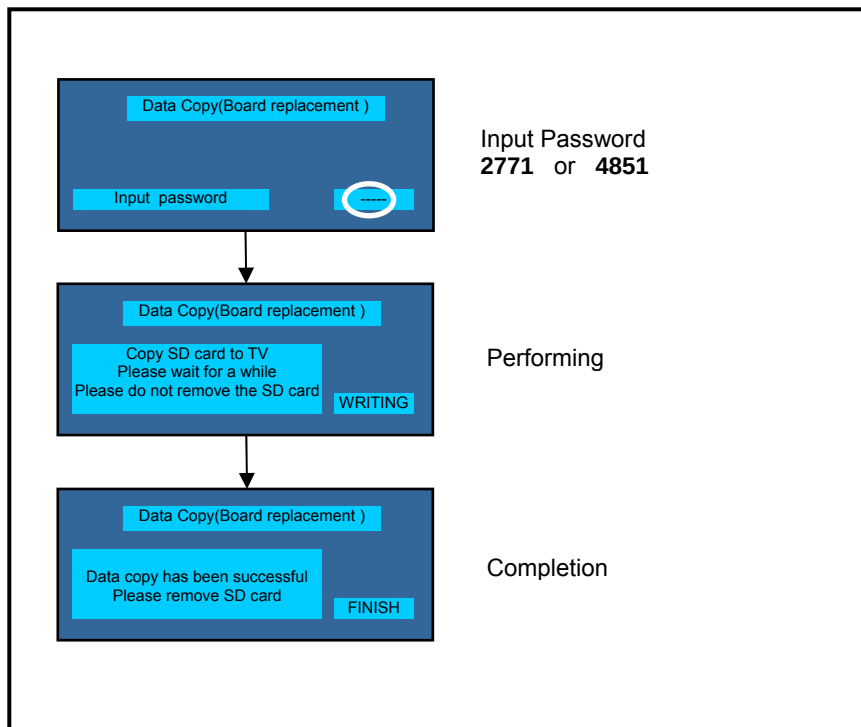


Data Copy from SD Card to TV set

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: 4851Data 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 for board replacement does not work.
2. This function can be effective among the same model numbers.



Option Bytes Description

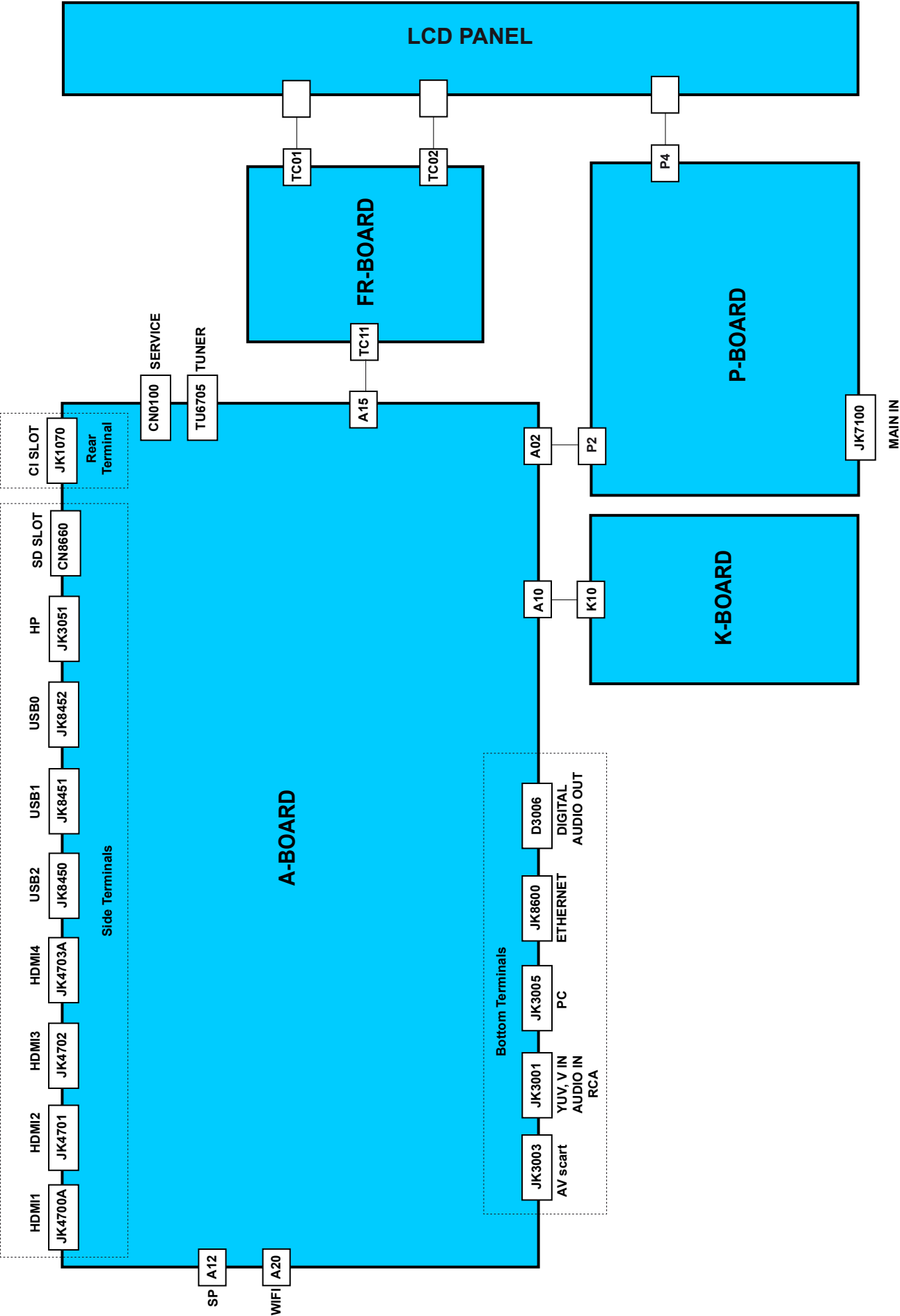
OPTION1			
	b1	TEXT Ch Refresh	ON (1) / OFF (0)
	b2	ID-1	ON (1) / OFF (0)
	b3	Macrovision Auto-judge	ON (1) / OFF (0)
	b4	Surround enable low bit	ON (1) / OFF (0)
	b5	Surround enable high bit	ON (1) / OFF (0)
	b6	Enable HDMI force reset	ON (1) / OFF (0)
	b7	TINT Component HDMI	ON (1) / OFF (0)
OPTION2			
	b0	Adjust gain enable	ON (1) / OFF (0)
	b1	A2 BG enable (5.5MHz)	ON (1) / OFF (0)
	b2	A2 DK1 enable (6.26MHz)	ON (1) / OFF (0)
	b3	A2 DK3 enable (5.742MHz)	ON (1) / OFF (0)
	b4	NICAM scan	ON (1) / OFF (0)
	b5	NICAM BG enable (5.5MHz)	ON (1) / OFF (0)
	b6	NICAM I enable (6.0MHz)	ON (1) / OFF (0)
	b7	NICAM DK enable (6.5MHz)	ON (1) / OFF (0)
OPTION3			
	b0	NICAM priority	ON (1) / OFF (0)
	b1	Starhub scan enable (Singapore)	ON (1) / OFF (0)
	b2	Enable special edge smoother function (CHINA)	ON (1) / OFF (0)
	b3	A2 DK2 enable	ON (1) / OFF (0)
	b4	Inhibition of countermeasure for SIF signal drop	ON (1) / OFF (0)
	b5	Get onid from physical CH (CHINA)	ON (1) / OFF (0)
	b6	SSU search enable for HOTEL model	ON (1) / OFF (0)
	b7	SASO mute (ASIA)	ON (1) / OFF (0)
OPTION4			
	b0	Enable Video Distortion Countermeasure for Analog VIF	ON (0) / OFF (1)
	b2	3DYC color motion detect	ON (1) / OFF (0)
	b3	RF Clamp Current minimum (TAIWAN)	ON (1) / OFF (0)
	b4	SHOP banner enable	ON (1) / OFF (0)
	b6	PIP	ON (1) / OFF (0)
	b7	Enable workaround for Polsat CAM problem (POLAND)	ON (1) / OFF (0)

Adjustment Method

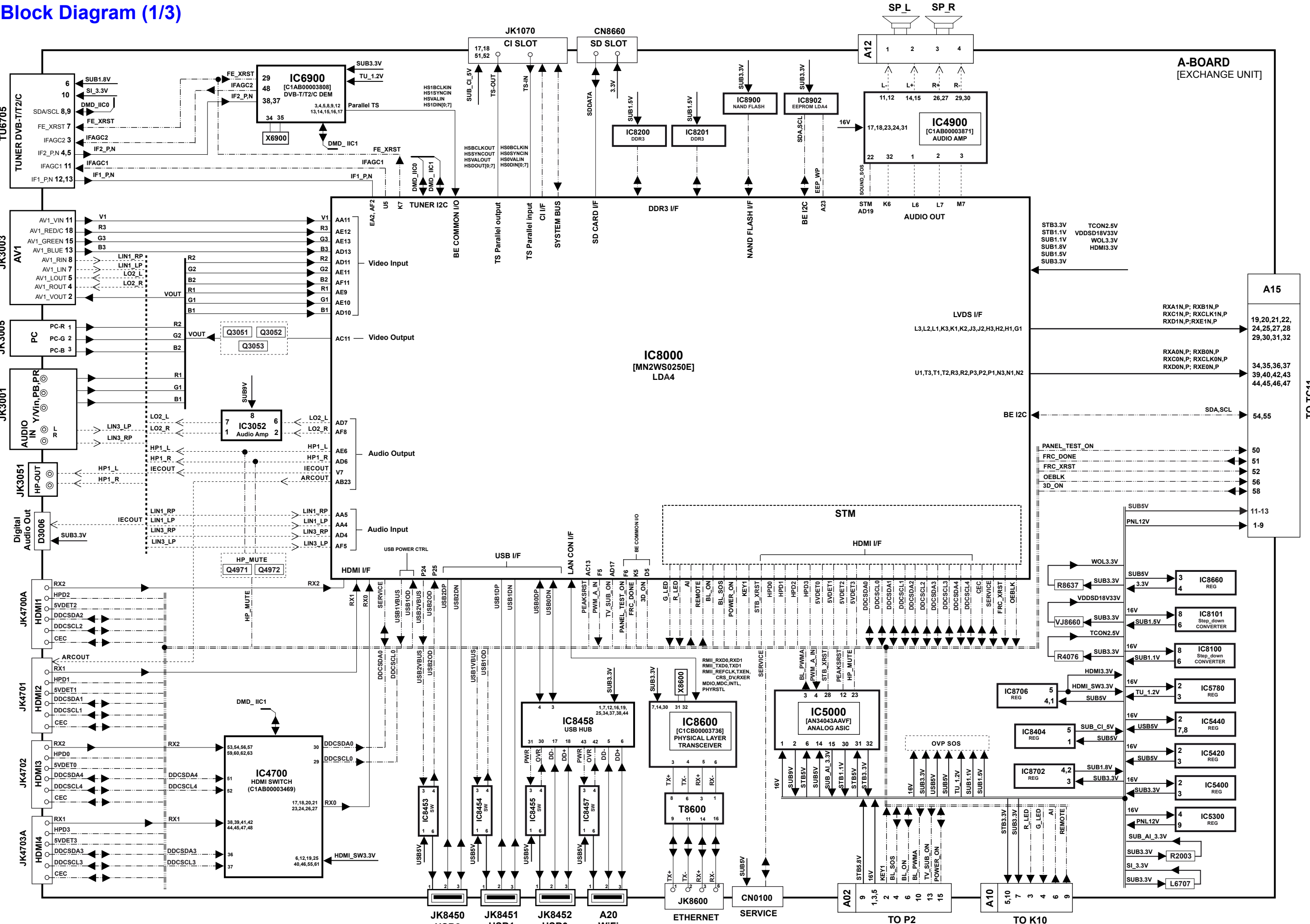
Sub-Contrast/White Balance Adjustment

Instrument Name	Connect to	Remarks										
1. Remote controller 2. LCD WB meter (Minolta CA-210 or equivalent) 3. Communication jig 4. Computer for external control		Correlation can be also taken by CS-1000A or equivalent										
Procedure		Remarks										
Subcontrast adjustment 1. Receive PAL colour bar (100% white) RF signal. 2. Enter “Contrast” adj. In SERVICE mode. 3. Start adjusting by using Yellow Key. 4. If the adjustment finished normally, the letter of Contrast will change from red to black. White Balance adjustment 1. Procedure basically performs checking using the production software and make automatic adjustment using external computer. 2. It adjusts in the mode of: Colour balance Normal Viewing Mode Dynamic <table><tr><td></td><td>TX-L32ET5B_Y_LR</td></tr><tr><td></td><td>Normal</td></tr><tr><td>Highlight</td><td>x: 0.307 ± 0.010 y: 0.322 ± 0.010</td></tr><tr><td></td><td>Normal</td></tr><tr><td>Lowlight</td><td>x: 0.307 ± 0.010 y: 0.322 ± 0.010</td></tr></table>			TX-L32ET5B_Y_LR		Normal	Highlight	x: 0.307 ± 0.010 y: 0.322 ± 0.010		Normal	Lowlight	x: 0.307 ± 0.010 y: 0.322 ± 0.010	Let the panel standfor more than 3 hours at more than 20 °C. Basically perform adjustment in the ambient environment of room temperature more than 20 °C. The aging time is more than 20 min at above room temperature. Applied signal 100% full colour bar 0.7V p-p white peak 85% modulation 100% WHITE 50% GRAY
	TX-L32ET5B_Y_LR											
	Normal											
Highlight	x: 0.307 ± 0.010 y: 0.322 ± 0.010											
	Normal											
Lowlight	x: 0.307 ± 0.010 y: 0.322 ± 0.010											

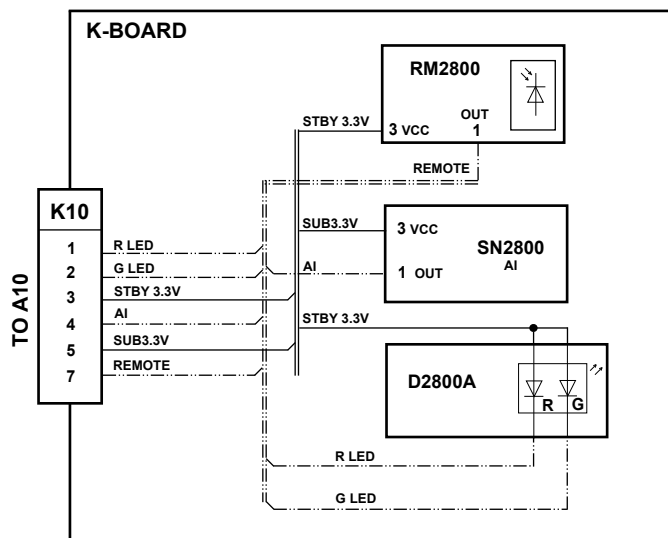
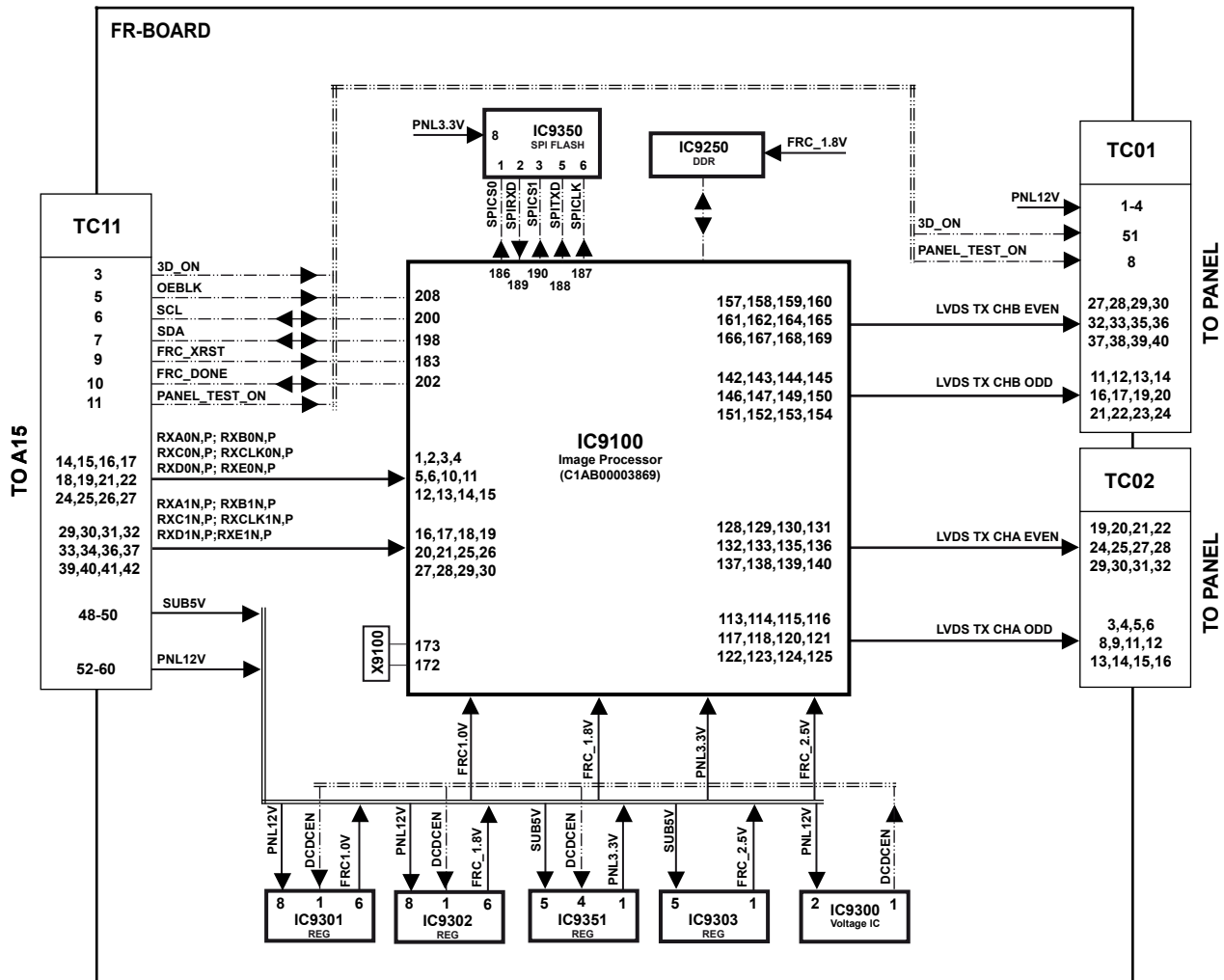
Wiring Diagram



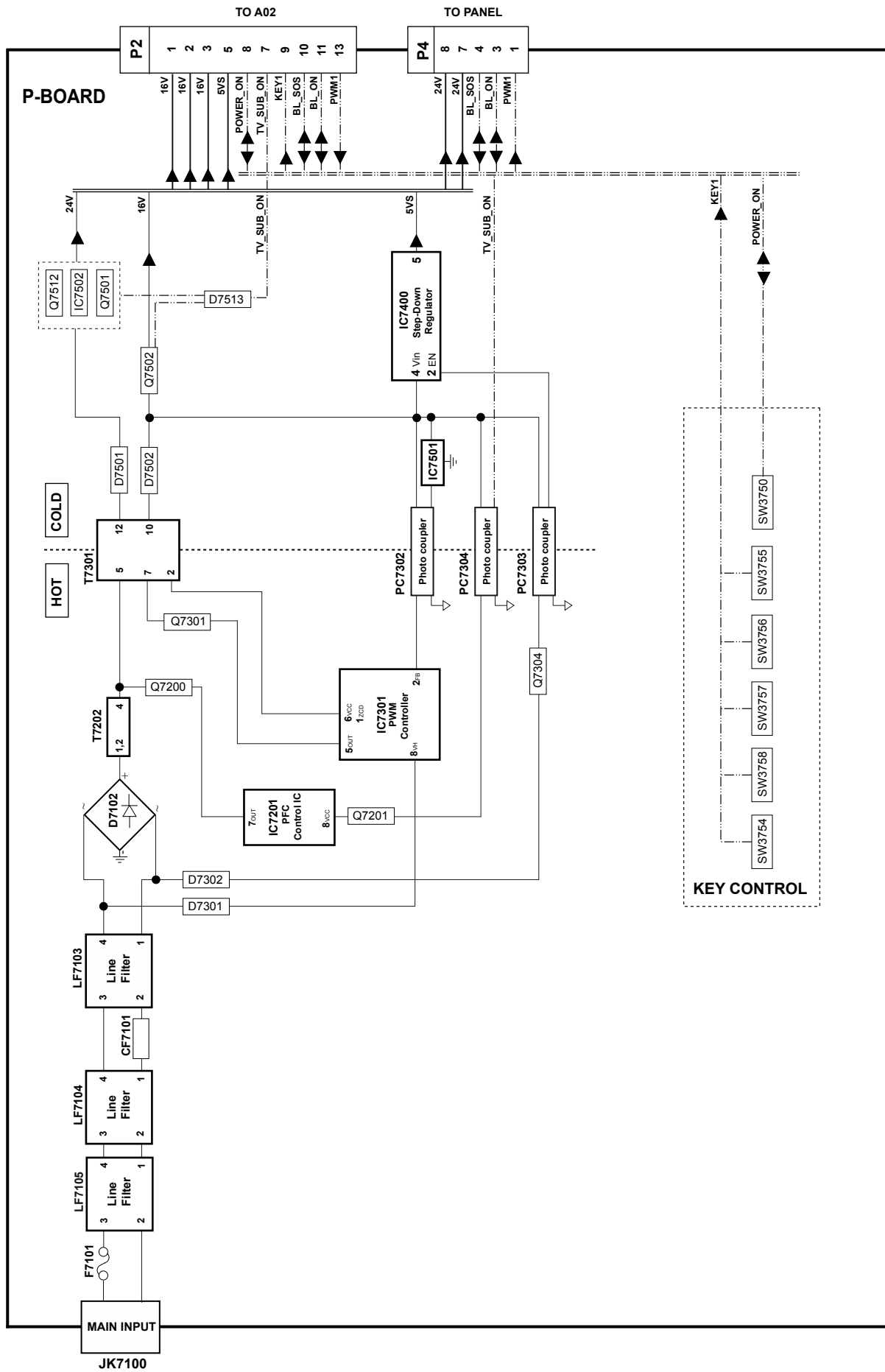
Block Diagram (1/3)



Block Diagram (2/3)

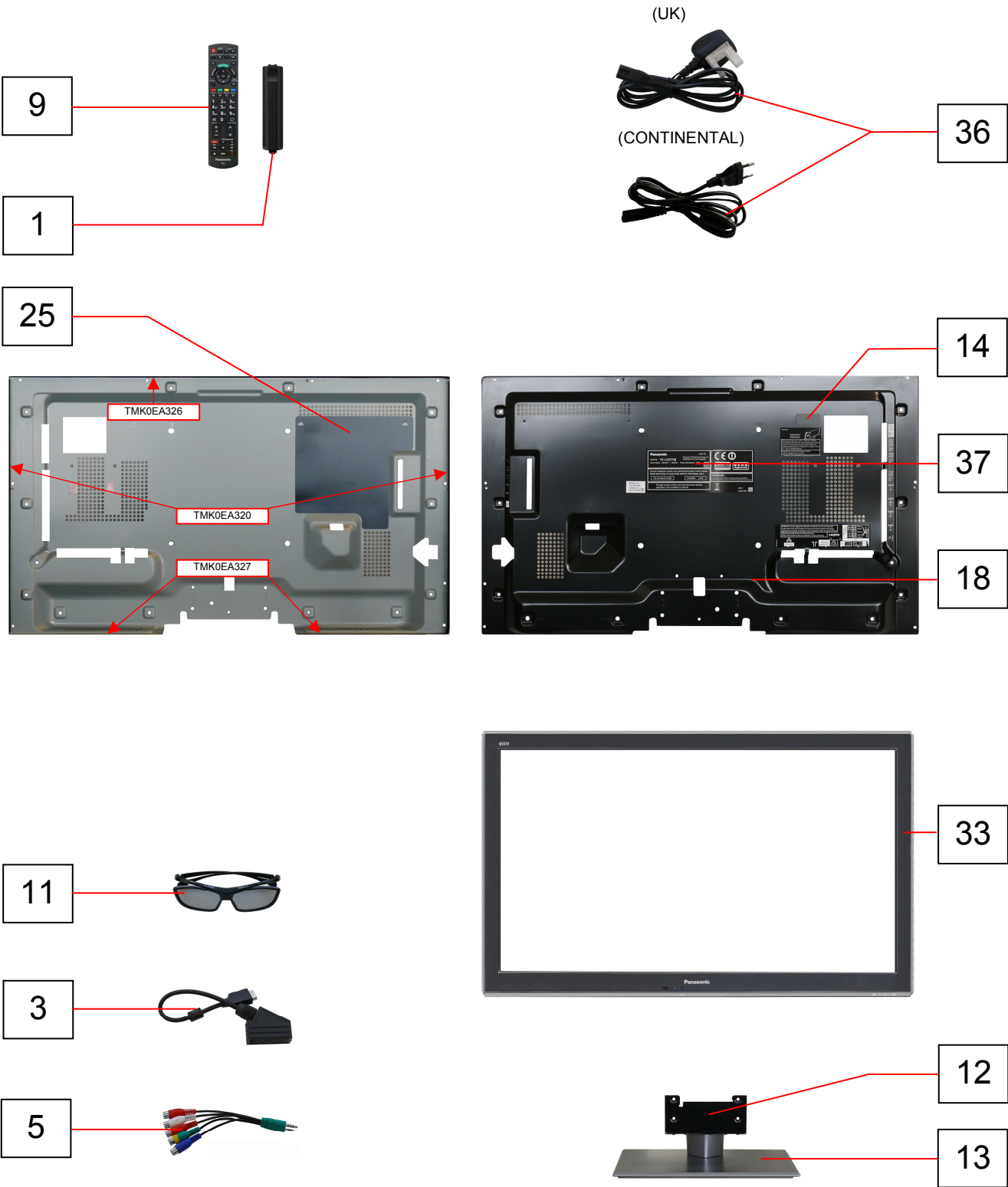


Block Diagram (3/3)



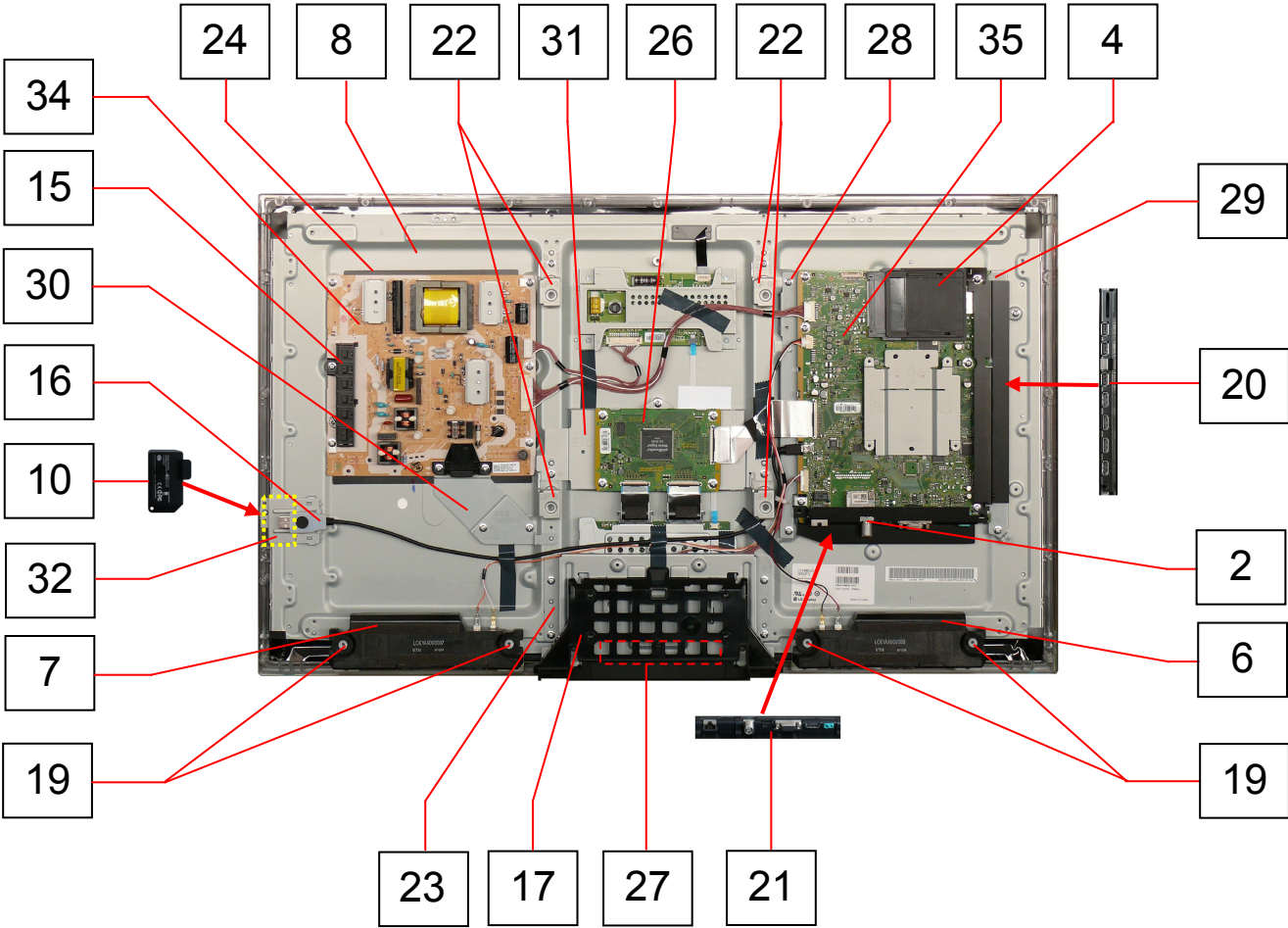
Parts Location

NOTE:
The numbers on the exploded view below refer to the exploded view section of the Replacement Parts List.



Parts Location

NOTE:
The numbers on the exploded view below refer to the exploded view section of the Replacement Parts List.



Replacement Parts List

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

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 dependent 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.

X The marking (X) indicates that board should be exchanged for service.

Cct Ref	Parts Number	Description
COMMON PARTS		
EXPLODED VIEW		
1	BAT-C-0752	BATTERY COVER OF RC
2	ENVS9302D5F	TUNER DVB-T/T2/C 
3	K1HY20YY0011	SCART CABLE
4	K1YB02000002	CI SLOT GUIDE
5	K2KYYYY00199	AV CABLE
6	L0EYAA000006	SPEAKER BOX_L
7	L0EYAA000007	SPEAKER BOX_R
8	L5EDDYY00364	LCD PANEL 
9	N2QAYB000752	REMOTE CONTROL
10	N5HBZ0000064	WIFI DONGLE 
11	N5ZZ00000261	3D GLASSES
12	TBL5ZX03471	STAND ACC ASSY
13	TBL5ZX03551	PACKED PEDESTAL ASSY 
14	TBM4GU113	COVER LABEL
15	TBX5ZA01401	KEY BUTTON
16	TKK5ZL50051	USB CABLE BRACKET
17	TKP5ZA14001A	BOTTOM COVER 
18	TKU5ZX06103	BACK COVER
19	TKX5ZA02501	SPEAKER BRACKET
20	TKZ5ZF50031	METAL AV BRACKET_SIDE
21	TKZ5ZF50073	METAL AV BRACKET_BOTTO
22	TKZ5ZX5006-1	VESA METAL
23	TKZ5ZX5010	BOTTOM METAL
24	TMK0EX137	BARRIER P PCB
25	TMK0EX138	BARRIER P PCB_BC
26	TNPA5587BC	FR P.C.B. RTL 
27	TNPA5604AB	K P.C.B. RTL 
28	TUA5ZA04501	METAL CHASSIS FRAME_R
29	TUA5ZA04601	METAL CHASSIS FRAME_L
30	TUA5ZA04701	METAL BRACKET AC INLET
31	TUX5ZE0091	METAL BRACKET_FR PCB
32	TUX5ZX0011	WIFI METAL
33	TXFKY01THUE	CABINET ASSY 
34	TXN/P10RSUB	P P.C.B. RTL 
MISCELLANEOUS COMPONENTS		
.	R6DB/2P	BATTERY
.	TBM0E00521	SIDE AV LABEL
.	TBM0E00601	CI LABEL
.	TBM0E04341	SIDE BUTTON LABEL
.	TEWB386	GASKET_10X7X2
.	TEWB477	GASKET (T5*W7*L3)
.	THEC1509	SCREW

Cct Ref	Parts Number	Description
.	THEJ036J	SCREW
.	THTD030J	SCREW
.	TKK5ZC50211	LED PANEL
.	TKK5ZC50221	LED PANEL
.	TKKL5521	M6_CAP
.	TMK0EA320	FELT FOR BLIND
.	TMK0EA326	FELT FOR BLIND
.	TMK0EA327	FELT(0.55X10X220)
.	TMK0EA333	FELT
.	TMK0EA334	FELT
.	TMK0EG068	SPONGE
.	TMK0EG069	SPONGE
.	TMK0EX153	SHADING PLATE
.	TMK0EX154	SHADING SHEET
.	TMKK486	HEAT RUBBER
.	TMKK487	RUBBER FOR LDA4
.	TMKK488	RUBBER FOR DDR
.	TMME268	CLAMPER
.	TMME289	CLAMPER
.	TMME399	SPACER_ P PCB
.	TMME415	CLIP
.	TPE0E9008	BAG
.	TUC4GJ5058	HEAT SINK
.	TXFKK5Z0003	LED PANEL ASSY
.	TXFKK5Z0006	LED BRACKET ASSY
.	XSB4+8FNK	SCREW
.	XSS5+15FNK	SCREW
.	XYN3+C6FJ	SCREW
.	XYN4+F25FJK	SCREW
.	XYN5+F14FN	SCREW
BOTCUS	TPD0E22081A	CUSHION BOTTOM
BOTCUS1	TPD0E22311	BOTTOM CUSHION CENTER
CARTON	TPC0EA10602	CARTON 
TOPCUS	TPD0E10211	TOP CUSHION
I.C.s		
IC3052	C0ABBB000179	AUDIO AMPLIFIER
IC4700	C1AB00003469	HDMI SWITCH
IC4900	C1AB00003871	AUDIO AMPLIFIER
IC5000	AN34043AAVF	ANALOG ASIC
IC5300	C0DBZYY00544	CONTROLLER IC
IC5400	C0DBAYY01299	REGULATOR
IC5420	C0DBAYY01299	REGULATOR
IC5440	C0DBAYY01283	STEP DOWN CONVERTER
IC5780	C0DBAYY01300	REGULATOR
IC6900	C1AB00003808	COMBINED DEMODULATOR
IC7201	C0DBBY000050	PFC CONTROL IC
IC7301	C0DBBY000046	PWM CONTROLLER
IC7400	C0DBAYY00845	REGULATOR

Cct Ref	Parts Number	Description
IC7501	C0DBZYY00545	REGULATOR
IC7502	C0DBZYY00545	REGULATOR
IC8000	MN2WS0250E	PEAKS LDA4
IC8100	C0DBAYY01283	STEP DOWN CONVERTER
IC8101	C0DBAYY01285	STEP DOWN CONVERTER
IC8200	C3ABUY000022	DDR SDRAM
IC8201	C3ABUY000022	DDR SDRAM
IC8404	C0DBZYY00382	POWER SWITCH IC
IC8453	C0DBZYY00541	SWITCH IC
IC8454	C0DBZYY00541	SWITCH IC
IC8455	C0DBZYY00541	SWITCH IC
IC8457	C0DBZYY00541	SWITCH IC
IC8458	C1CB00003747	USB HUB
IC8600	C1CB00003736	LAN CONTROLER
IC8660	C0DBEYY00102	REGULATOR
IC8702	C0DBEYY00102	REGULATOR
IC8706	C0DBGYY01682	REGULATOR
IC8900	TVRS835AE	FLASH MEMORY
IC9100	C1AB00003869	IMAGE PROCESSOR
IC9250	C3ABSY000090	DDR SDRAM
IC9300	C0EBK0000129	VOLTAGE IC
IC9301	C0DBAYY01285	STEP DOWN CONVERTER
IC9302	C0DBAYY01285	STEP DOWN CONVERTER
IC9303	C0DBGFD00011	REGULATOR
IC9350	TVRS862AB	SPI FLASH MEMORY
IC9351	C0DBGYY00887	REGULATOR
PC7302	B3PAA0000629	PHOTO COUPLER
PC7303	B3PAA0000629	PHOTO COUPLER
PC7304	B3PAA0000629	PHOTO COUPLER
RM2800	PNJ4815M01TV	RC RECEIVER
SN2800	B3JB00000116	AI SENSOR IC
FUSES		
F7101	K5E502YY0001	FUSE
PA7400	K5H322YA0042	FUSE
DIODES		
D2800A	B3AGB0000065	LED DIODE
D3100	DZ2J140M0L	ZENER DIODE
D3101	DZ2J140M0L	ZENER DIODE
D3102	DZ2J140M0L	ZENER DIODE
D3103	DZ2J140M0L	ZENER DIODE
D3104	DZ2J140M0L	ZENER DIODE
D3105	DZ2J140M0L	ZENER DIODE
D3130	DB2J30900L	DIODE
D4702	DA2J10100L	DIODE
D4704	DB2J30900L	DIODE
D4719	DA2J10100L	DIODE
D4735	DA2J10100L	DIODE
D4770	DA2J10100L	DIODE
D4785	DB2J30900L	DIODE
D5172	DZ2J220M0L	DIODE
D5173	DA2J10100L	DIODE
D5178	DZ2J068M0L	ZENER DIODE
D5179	B0ADCK000001	DIODE
D5180	DZ2J033M0L	ZENER DIODE
D5187	DZ2J047M0L	ZENER DIODE
D5188	B0ADCK000001	DIODE
D5191	B0ADCK000001	DIODE
D7101	ERZV10Q621CD	DIODE
D7102	B0FBAR000047	DIODE
D7200	B0HAPR000013	DIODE
D7203	B0ECKM000053	DIODE
D7210	B0JCME000104	DIODE
D7301	B0HAGQ000001	DIODE
D7302	B0HAGQ000001	DIODE
D7304	DZ2J360M0L	DIODE
D7305	DZ2J360M0L	DIODE
D7306	B0JCME000104	DIODE

Cct Ref	Parts Number	Description
D7311	B0JCME000104	DIODE
D7312	B0JCME000104	DIODE
D7313	B0ECKM000053	DIODE
D7315	B0ECKM000053	DIODE
D7320	B0JAME000091	DIODE
D7321	DZ2J068M0L	ZENER DIODE
D7322	B0ECKM000053	DIODE
D7323	B0EAKT000019	DIODE
D7324	B0EAKT000019	DIODE
D7400	B0JCPE000038	DIODE
D7501	B0HBSM000057	DIODE
D7502	B0JBSL000049	DIODE
D7513	B0ADCJ000100	DIODE
D7514	DA2J10100L	DIODE
D8716	B0ECKM000053	DIODE
D8850	DB2J30900L	DIODE
TRANSISTORS		
Q2011	B1ABCE000015	TRANSISTOR
Q2012	B1ABCE000015	TRANSISTOR
Q2013	B1ABCE000015	TRANSISTOR
Q3051	B1HFCEA000001	TRANSISTOR
Q3052	B1HFCEA000001	TRANSISTOR
Q3053	B1ADCE000022	TRANSISTOR
Q3102	B1ABCE000015	TRANSISTOR
Q3103	B1ABCE000015	TRANSISTOR
Q4700	B1ABCF000231	TRANSISTOR
Q4702	B1ABCF000231	TRANSISTOR
Q4704	B1ABCF000231	TRANSISTOR
Q4709	B1ABCF000231	TRANSISTOR
Q4971	B1ABKE000001	TRANSISTOR
Q4972	B1ABKE000001	TRANSISTOR
Q4981	B1ABCE000015	TRANSISTOR
Q5301	B1CFRD000100	TRANSISTOR
Q5302	B1CFRD000100	TRANSISTOR
Q7200	B1CERR000057	TRANSISTOR
Q7201	B1ADCE000027	TRANSISTOR
Q7301	B1CERT000007	TRANSISTOR
Q7304	B1HFCEA000001	TRANSISTOR
Q7401	B1CHNC000022	TRANSISTOR
Q7501	B1CHRE000008	TRANSISTOR
Q7502	B1CHRE000008	TRANSISTOR
Q7510	B1ABBE000003	TRANSISTOR
Q7511	B1ABBE000003	TRANSISTOR
Q7512	B1ADCE000027	TRANSISTOR
Q9350	B1ADCE000022	TRANSISTOR
Q9351	B1ABCF000231	TRANSISTOR
TRANSFORMERS		
T7202	G4DYA0000368	TRANSFORMER
T7301	G4DYA0000388	TRANSFORMER
T8600	G5BYC0000040	TRANSFORMER
COILS		
L3102	J0JYC0000156	COIL
L3103	J0JYC0000156	COIL
L3108	J0JYC0000156	COIL
L3111	J0JYC0000156	COIL
L3112	J0JYC0000156	COIL
L3113	J0JYC0000156	COIL
L3116	J0JYC0000156	COIL
L3119	J0JYC0000156	COIL
L3120	J0JYC0000156	COIL
L4901	G1C150MA0533	COIL
L4902	G1C150MA0533	COIL
L4903	G1C150MA0533	COIL
L4904	G1C150MA0533	COIL
L5300	G1C3R3ZA0248	COIL
L5400	G1C4R7ZA0311	COIL

Cct Ref	Parts Number	Description
L5420	G1C6R8MA0533	COIL
L5440	G1C3R3ZA0311	COIL
L5780	G1C4R7ZA0311	COIL
L6707	J0JYC0000070	COIL
L6711	J0JHC0000046	COIL
L6721	J0JYC0000156	COIL
L6900	J0JGC0000020	COIL
L6901	J0JGC0000020	COIL
L7201	EXCELD35V	COIL
L7209	EXCELD35V	COIL
L7210	EXCELD35V	COIL
L7301	EXCELD35V	COIL
L7302	J0JKB0000034	FILTER
L7303	EXCELD35V	COIL
L7304	EXCELD35V	COIL
L7400	G0C270MA0049	COIL
L7501	EXCELD35V	COIL
L8001	J0JCC0000287	COIL
L8002	J0JYC0000464	COIL
L8003	J0JKC0000021	COIL
L8004	J0JCC0000287	COIL
L8005	J0JYC0000464	COIL
L8006	J0JYC0000464	COIL
L8100	G1C1R5ZA0311	COIL
L8101	G1C2R2ZA0311	COIL
L8461	J0JHC0000045	COIL BLM18PG121SN1D
L8462	J0JHC0000045	COIL BLM18PG121SN1D
L8464	J0JHC0000045	COIL BLM18PG121SN1D
L8466	J0JYC0000464	COIL
L8467	J0JHC0000045	COIL BLM18PG121SN1D
L8660	J0JBC0000115	FILTER
L8662	J0JHC0000045	COIL BLM18PG121SN1D
L8663	J0JYC0000014	COIL
L8664	J0JYC0000014	COIL
L9101	J0JYC0000464	COIL
L9102	J0JYC0000464	COIL
L9104	J0JYC0000464	COIL
L9300	G1C2R2ZA0311	COIL
L9301	G1C2R2ZA0311	COIL
FILTERS		
FL4000	J0ZZB0000147	FILTER
FL4001	J0ZZB0000147	FILTER
FL4002	J0ZZB0000147	FILTER
FL4003	J0ZZB0000147	FILTER
FL4004	J0ZZB0000147	FILTER
FL4005	J0ZZB0000147	FILTER
FL9056	EXC28CE201U	FILTER
FL9057	EXC28CE201U	FILTER
FL9058	EXC28CE201U	FILTER
FL9059	EXC28CE201U	FILTER
FL9060	EXC28CE201U	FILTER
FL9061	EXC28CE201U	FILTER
FL9068	EXC28CE201U	FILTER
FL9069	EXC28CE201U	FILTER
FL9070	EXC28CE201U	FILTER
FL9071	EXC28CE201U	FILTER
FL9072	EXC28CE201U	FILTER
FL9073	EXC28CE201U	FILTER
L8451	J0ZZB0000142	FILTER
L8453	J0ZZB0000142	FILTER
L8455	J0ZZB0000142	FILTER
L8459	J0ZZB0000142	FILTER
LF7103	G0B153G00003	LINE FILTER
LF7104	G0B153G00003	LINE FILTER
LF7105	G0B650H00002	LINE FILTER
CRYSTALS		
X6900	H0J410500002	CRYSTAL



Cct Ref	Parts Number	Description
X8300	H0J245500110	CRYSTAL
X8450	H0J120500062	CRYSTAL
X8600	H0J250500120	CRYSTAL
X9100	H0J270500166	CRYSTAL
RESISTORS		
CF7101	D4CA94R0A001	THERMIST - 15% 4 Ω
JA1	D0GDR00J0004	SMD .125W 5% 0 Ω
JS0033	D0GAR00J0005	SMD .063W 5% 0 Ω
JS0063	D0GAR00J0005	SMD .063W 5% 0 Ω
JS9014	D0GAR00J0005	SMD .063W 5% 0 Ω
R0900	D0GA220JA023	SMD .063W 5% 22 Ω
R0901	D0GA220JA023	SMD .063W 5% 22 Ω
R0903	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0904	D0GA473JA023	SMD .063W 5% 47K Ω
R0905	D0GA101JA023	SMD .063W 5% 100 Ω
R0906	D0GA101JA023	SMD .063W 5% 100 Ω
R0907	D0GA101JA023	SMD .063W 5% 100 Ω
R0910	D0GA332JA023	SMD .063W 5% 3K3 Ω
R0911	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0912	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0913	D0GA332JA023	SMD .063W 5% 3K3 Ω
R0914	D0GA101JA023	SMD .063W 5% 100 Ω
R0916	D0GA220JA023	SMD .063W 5% 22 Ω
R0917	D0GA220JA023	SMD .063W 5% 22 Ω
R0918	D0GA220JA023	SMD .063W 5% 22 Ω
R0919	D0GA220JA023	SMD .063W 5% 22 Ω
R0924	D0GA220JA023	SMD .063W 5% 22 Ω
R0925	D0GA220JA023	SMD .063W 5% 22 Ω
R0932	D0GA220JA023	SMD .063W 5% 22 Ω
R0933	D0GA220JA023	SMD .063W 5% 22 Ω
R0938	D0GA101JA023	SMD .063W 5% 100 Ω
R0940	D0GA101JA023	SMD .063W 5% 100 Ω
R0946	D0GA101JA023	SMD .063W 5% 100 Ω
R0948	D0GA101JA023	SMD .063W 5% 100 Ω
R0951	D0GA101JA023	SMD .063W 5% 100 Ω
R0952	D0GA102JA023	SMD .063W 5% 1K Ω
R0953	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0954	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0955	D0GA272JA023	SMD .063W 5% 2K7 Ω
R0956	D0GA332JA023	SMD .063W 5% 3K3 Ω
R0957	D0GA332JA023	SMD .063W 5% 3K3 Ω
R1951	D0GA680JA023	SMD .063W 5% 68 Ω
R1953	D0GA103JA023	SMD .063W 5% 10K Ω
R2000	D0GA433JA023	SMD .063W 5% 43K Ω
R2003	D0GAR00J0005	SMD .063W 5% 0 Ω
R2008	D0GA473JA023	SMD .063W 5% 47K Ω
R2013	D0GA101JA023	SMD .063W 5% 100 Ω
R2014	D0GA101JA023	SMD .063W 5% 100 Ω
R2016	D0GA122JA023	SMD .063W 5% 1K2 Ω
R2034	D0GAR00J0005	SMD .063W 5% 0 Ω
R2051	D0GA101JA023	SMD .063W 5% 100 Ω
R2053	D0GA473JA023	SMD .063W 5% 47K Ω
R2054	D0GA104JA023	SMD .063W 5% 100K Ω
R2055	D0GA103JA023	SMD .063W 5% 10K Ω
R2058	D0GA473JA023	SMD .063W 5% 47K Ω
R2059	D0GA103JA023	SMD .063W 5% 10K Ω
R2060	D0GA473JA023	SMD .063W 5% 47K Ω
R2061	D0GA223JA023	SMD .063W 5% 22K Ω
R2062	D0GA101JA023	SMD .063W 5% 100 Ω
R2066	D0GAR00J0005	SMD .063W 5% 0 Ω
R2800	D1BA9530A014	SMD .063W 1% 953 Ω
R2804	D0GAR00J0005	SMD .063W 5% 0 Ω
R2805	D1BA2261A023	SMD .063W 1% 2K26 Ω
R2806	D0GA470JA023	SMD .063W 5% 47 Ω
R2807	D0GAR00J0005	SMD .063W 5% 0 Ω
R3061	D0GA221JA023	SMD .063W 5% 220 Ω
R3062	D0GA103JA023	SMD .063W 5% 10K Ω

Cct Ref	Parts Number	Description			
R3063	D0GA103JA023	SMD	.063W	5%	10K Ω
R3064	D0GA102JA023	SMD	.063W	5%	1K Ω
R3065	D0GA112JA015	SMD	.063W	5%	1K1 Ω
R3066	D1BA1501A023	SMD	.063W	1%	1K5 Ω
R3067	D1BA1501A023	SMD	.063W	1%	1K5 Ω
R3101	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R3102	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R3103	D0GD750JA052	SMD	.125W	5%	75 Ω
R3104	D0GD750JA052	SMD	.125W	5%	75 Ω
R3105	D0GD750JA052	SMD	.125W	5%	75 Ω
R3121	D1BB1003A055	SMD	0.1W	1%	100K Ω
R3123	D1HY2204A012	SMD	.063W	5%	22 Ω
R3127	D0GA220JA023	SMD	.063W	5%	22 Ω
R3129	D0GA102JA023	SMD	.063W	5%	1K Ω
R3132	D0GB103JA072	SMD	0.1W	5%	10K Ω
R3137	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3141	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3142	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3143	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3147	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3150	D0GA220JA023	SMD	.063W	5%	22 Ω
R3151	D0GF750JA048	SMD	0.25W	5%	75 Ω
R3156	D0GA104JA023	SMD	.063W	5%	100K Ω
R3157	D1HY2204A012	SMD	.063W	5%	22 Ω
R3163	D0GA104JA023	SMD	.063W	5%	100K Ω
R3164	D0GA104JA023	SMD	.063W	5%	100K Ω
R3167	D0GA333JA023	SMD	.063W	5%	33K Ω
R3168	D0GA333JA023	SMD	.063W	5%	33K Ω
R3171	D0GA101JA023	SMD	.063W	5%	100 Ω
R3172	D0GA101JA023	SMD	.063W	5%	100 Ω
R3173	D1BB1003A055	SMD	0.1W	1%	100K Ω
R3179	D0GA331JA023	SMD	.063W	5%	330 Ω
R3180	D0GA331JA023	SMD	.063W	5%	330 Ω
R3181	D0GD750JA052	SMD	.125W	5%	75 Ω
R3182	D0GD750JA052	SMD	.125W	5%	75 Ω
R3183	D0GD750JA052	SMD	.125W	5%	75 Ω
R3184	D0GA333JA023	SMD	.063W	5%	33K Ω
R3185	D0GA333JA023	SMD	.063W	5%	33K Ω
R3188	D1BB1003A055	SMD	0.1W	1%	100K Ω
R3189	D1BB1003A055	SMD	0.1W	1%	100K Ω
R3193	D0GA220JA023	SMD	.063W	5%	22 Ω
R3194	D0GA220JA023	SMD	.063W	5%	22 Ω
R3195	D0GA220JA023	SMD	.063W	5%	22 Ω
R3198	D0GA680JA023	SMD	.063W	5%	68 Ω
R3201	D0GA101JA023	SMD	.063W	5%	100 Ω
R3204	D0GA304JA015	SMD	.063W	5%	300K Ω
R3206	D0GA104JA023	SMD	.063W	5%	100K Ω
R3208	D0GA273JA023	SMD	.063W	5%	27K Ω
R3231	D0GB103JA072	SMD	0.1W	5%	10K Ω
R3233	D0GB203ZA038	SMD	0.1W	5%	20K Ω
R3234	D0GB203ZA038	SMD	0.1W	5%	20K Ω
R3237	D0GB473JA072	SMD	0.1W	5%	47K Ω
R3238	D0GB473JA072	SMD	0.1W	5%	47K Ω
R3752	D1BD1911A066	SMD	.125W	1%	1K91 Ω
R3753	D1BD3091A066	SMD	.125W	1%	3K09 Ω
R3754	D1BD6041A066	SMD	.125W	1%	6K04 Ω
R3758	D1BD1692A066	SMD	.125W	1%	16K9 Ω
R3871	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4064	D0GBR00J0004	SMD	0.1W	5%	0 Ω
R4080	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4081	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4082	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4084	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4086	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4702	D0GA103JA023	SMD	.063W	5%	10K Ω
R4708	D0GA103JA023	SMD	.063W	5%	10K Ω
R4709	D0GA103JA023	SMD	.063W	5%	10K Ω
R4710	D0GA473JA023	SMD	.063W	5%	47K Ω

Cct Ref	Parts Number	Description			
R4711	D0GA102JA023	SMD	.063W	5%	1K Ω
R4712	D0GA473JA023	SMD	.063W	5%	47K Ω
R4715	D0GA103JA023	SMD	.063W	5%	10K Ω
R4721	D0GA103JA023	SMD	.063W	5%	10K Ω
R4722	D0GA103JA023	SMD	.063W	5%	10K Ω
R4723	D0GA473JA023	SMD	.063W	5%	47K Ω
R4724	D0GA102JA023	SMD	.063W	5%	1K Ω
R4725	D0GA473JA023	SMD	.063W	5%	47K Ω
R4728	D0GA103JA023	SMD	.063W	5%	10K Ω
R4732	D0GA103JA023	SMD	.063W	5%	10K Ω
R4734	D0GA103JA023	SMD	.063W	5%	10K Ω
R4735	D0GA103JA023	SMD	.063W	5%	10K Ω
R4736	D0GA473JA023	SMD	.063W	5%	47K Ω
R4737	D0GA102JA023	SMD	.063W	5%	1K Ω
R4738	D0GA473JA023	SMD	.063W	5%	47K Ω
R4739	D0GA220JA023	SMD	.063W	5%	22 Ω
R4744	D0GA680JA023	SMD	.063W	5%	68 Ω
R4745	D0GA680JA023	SMD	.063W	5%	68 Ω
R4746	D0GA680JA023	SMD	.063W	5%	68 Ω
R4747	D0GA680JA023	SMD	.063W	5%	68 Ω
R4748	D0GA680JA023	SMD	.063W	5%	68 Ω
R4749	D0GA680JA023	SMD	.063W	5%	68 Ω
R4750	D0GA680JA023	SMD	.063W	5%	68 Ω
R4751	D0GA680JA023	SMD	.063W	5%	68 Ω
R4752	D1BA1600A023	SMD	.063W	1%	160 Ω
R4753	D1BA82R0A014	SMD	.063W	1%	82 Ω
R4763	D0GA473JA023	SMD	.063W	5%	47K Ω
R4764	D0GA473JA023	SMD	.063W	5%	47K Ω
R4765	D0GA473JA023	SMD	.063W	5%	47K Ω
R4766	D0GA473JA023	SMD	.063W	5%	47K Ω
R4767	D0GA392JA023	SMD	.063W	5%	3K9 Ω
R4770	D0GA473JA023	SMD	.063W	5%	47K Ω
R4771	D0GA152JA023	SMD	.063W	5%	1K5 Ω
R4772	D0GA152JA023	SMD	.063W	5%	1K5 Ω
R4774	D0GA473JA023	SMD	.063W	5%	47K Ω
R4775	D0GA473JA023	SMD	.063W	5%	47K Ω
R4776	D0GA680JA023	SMD	.063W	5%	68 Ω
R4777	D0GA680JA023	SMD	.063W	5%	68 Ω
R4780	D0GA121JA023	SMD	.063W	5%	120 Ω
R4788	D0GA103JA023	SMD	.063W	5%	10K Ω
R4794	D0GA103JA023	SMD	.063W	5%	10K Ω
R4795	D0GA103JA023	SMD	.063W	5%	10K Ω
R4796	D0GA473JA023	SMD	.063W	5%	47K Ω
R4797	D0GA102JA023	SMD	.063W	5%	1K Ω
R4798	D0GA473JA023	SMD	.063W	5%	47K Ω
R4799	D0GA273JA023	SMD	.063W	5%	27K Ω
R4900	D0GFR00J0005	SMD	0.25W	5%	0 Ω
R4901	D1HY6804A012	SMD	.063W	5%	68 Ω
R4906	D0GA822JA023	SMD	.063W	5%	8K2 Ω
R4907	D0GA102JA023	SMD	.063W	5%	1K Ω
R4908	D0GA102JA023	SMD	.063W	5%	1K Ω
R4913	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4914	D0GAR00J0005	SMD	.063W	5%	0 Ω
R4955	D0GA103JA023	SMD	.063W	5%	10K Ω
R4956	D0GA102JA023	SMD	.063W	5%	1K Ω
R4973	D0GA103JA023	SMD	.063W	5%	10K Ω
R4974	D0GA103JA023	SMD	.063W	5%	10K Ω
R4975	D0GF122JA048	SMD	0.1W	5%	1K2 Ω
R4976	D0GA101JA023	SMD	.063W	5%	100 Ω
R4977	D0GA101JA023	SMD	.063W	5%	100 Ω
R4980	D0GB332JA072	SMD	0.1W	5%	3K3 Ω
R4981	D0GA103JA023	SMD	.063W	5%	10K Ω
R4982	D0GA473JA023	SMD	.063W	5%	47K Ω
R5002	D0GA683JA023	SMD	.063W	5%	68K Ω
R5003	D0GA103JA023	SMD	.063W	5%	10K Ω
R5006	D0GA223JA023	SMD	.063W	5%	22K Ω
R5007	D0GA223JA023	SMD	.063W	5%	22K Ω
R5009	D1BA5602A023	SMD	.063W	1%	56K Ω

Cct Ref	Parts Number	Description			
R5012	D1BA2202A023	SMD	.063W	1%	22K Ω
R5030	D0GA103JA023	SMD	.063W	5%	10K Ω
R5100	D0GA101JA023	SMD	.063W	5%	100 Ω
R5101	D0GA473JA023	SMD	.063W	5%	47K Ω
R5102	D0GA473JA023	SMD	.063W	5%	47K Ω
R5104	D0GA103JA023	SMD	.063W	5%	10K Ω
R5152	D0GA222JA023	SMD	.063W	5%	2K2 Ω
R5175	D0GA680JA023	SMD	.063W	5%	68 Ω
R5181	D0GA103JA023	SMD	.063W	5%	10K Ω
R5302	D1BB1962A055	SMD	0.1W	1%	19K6 Ω
R5303	D0GB102ZA038	SMD	0.1W	OTH	1K Ω
R5304	D0GA473JA023	SMD	.063W	5%	47K Ω
R5306	D0GA302JA023	SMD	.063W	5%	3K Ω
R5307	D0GA132JA023	SMD	.063W	5%	1K3 Ω
R5308	D0GA392JA023	SMD	.063W	5%	3K9 Ω
R5309	D0GA104JA023	SMD	.063W	5%	100K Ω
R5310	D0GAR00J0005	SMD	.063W	5%	0 Ω
R5311	D0GA104JA023	SMD	.063W	5%	100K Ω
R5400	D0GAR00J0005	SMD	.063W	5%	0 Ω
R5401	D1BA2202A023	SMD	.063W	1%	22K Ω
R5402	D1BB9100A055	SMD	0.1W	1%	910 Ω
R5403	D1BB2871A055	SMD	0.1W	1%	2K87 Ω
R5420	D0GAR00J0005	SMD	.063W	5%	0 Ω
R5421	D1BA3302A023	SMD	.063W	1%	33K Ω
R5422	D1BB9100A055	SMD	0.1W	1%	910 Ω
R5423	D1BB4871A106	SMD	0.1W	1%	4K87 Ω
R5441	D0GAR00J0005	SMD	.063W	5%	0 Ω
R5442	D1BB1301A195	SMD	0.1W	0.5	1K3 Ω
R5443	D1BB7501A195	SMD	0.1W	0.5	7K5 Ω
R5780	D0GAR00J0005	SMD	.063W	5%	0 Ω
R5782	D1BA2001A023	SMD	.063W	1%	2K Ω
R5783	D1BA1001A023	SMD	.063W	1%	1K Ω
R5784	D1BA3001A023	SMD	.063W	1%	3K Ω
R5852	D0GA103JA023	SMD	.063W	5%	10K Ω
R6723	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6726	D0GA681JA023	SMD	.063W	5%	680 Ω
R6727	D0GA681JA023	SMD	.063W	5%	680 Ω
R6731	D0GA103JA023	SMD	.063W	5%	10K Ω
R6732	D0GA103JA023	SMD	.063W	5%	10K Ω
R6739	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6740	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6741	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6742	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6900	D0GA272JA023	SMD	.063W	5%	2K7 Ω
R6901	D0GA272JA023	SMD	.063W	5%	2K7 Ω
R6902	D0GA103JA023	SMD	.063W	5%	10K Ω
R6903	D0GA471JA023	SMD	.063W	5%	470 Ω
R6904	EXB28V680JX	SMD	.031W	5%	68 Ω
R6905	D0GAR00J0005	SMD	.063W	5%	0 Ω
R6906	EXB2HV680JV	SMD	.063W	5%	68 Ω
R6907	D0GA681JA023	SMD	.063W	5%	680 Ω
R6908	D0GA681JA023	SMD	.063W	5%	680 Ω
R7100	D0B1106JA033	METAL	1W	5%	10M Ω
R7101	D0GF105JA048	SMD	0.25W	5%	1M Ω
R7102	D0GF105JA048	SMD	0.25W	5%	1M Ω
R7103	D0GF105JA048	SMD	0.25W	5%	1M Ω
R7201	ERX1SJR56V	METAL	1W	5%	R56 Ω
R7203	D0GB104JA068	SMD	0.1W	5%	100K Ω
R7205	D0GD101JA059	SMD	0.25W	5%	100 Ω
R7206	D1BD8203A066	SMD	.125W	1%	820K Ω
R7207	D0GD470JA052	SMD	.125W	5%	47 Ω
R7208	D0GD220JA059	SMD	0.25W	5%	22 Ω
R7209	D0GB104JA068	SMD	0.1W	5%	100K Ω
R7210	ERX1SJR56V	METAL	1W	5%	R56 Ω
R7211	ERJ8ENF1504V	SMD	0.25W	1%	1M5 Ω
R7212	ERJ8ENF1504V	SMD	0.25W	1%	1M5 Ω
R7213	ERJ8ENF1504V	SMD	0.25W	1%	1M5 Ω
R7214	ERJ8ENF1504V	SMD	0.25W	1%	1M5 Ω

Cct Ref	Parts Number	Description			
R7215	D1BD2003A066	SMD	.125W	1%	200K Ω
R7216	D1BD4422A066	SMD	.125W	1%	44K2 Ω
R7217	D1BD4303A066	SMD	.125W	1%	430K Ω
R7221	D0GB103JA072	SMD	0.1W	5%	10K Ω
R7222	D0GD223JA052	SMD	.125W	5%	22K Ω
R7223	D0GD103JA052	SMD	.125W	5%	10K Ω
R7224	D0GD470JA052	SMD	.125W	5%	47 Ω
R7235	D1BD3603A066	SMD	.125W	1%	360K Ω
R7246	D1BD8203A066	SMD	.125W	1%	820K Ω
R7247	D0GB470J0002	SMD	0.1W	5%	47 Ω
R7248	D0GBR00J0004	SMD	0.1W	5%	0 Ω
R7301	D1BD1803A066	SMD	.125W	1%	180K Ω
R7302	D1BD1803A066	SMD	.125W	1%	180K Ω
R7303	ERJ8ENF2204V	SMD	0.25W	1%	2M2 Ω
R7304	ERJ8ENF2204V	SMD	0.25W	1%	2M2 Ω
R7305	ERJ8ENF2204V	SMD	0.25W	1%	2M2 Ω
R7306	D1BD6203A066	SMD	.125W	1%	620K Ω
R7313	D0GD4R7JA059	SMD	0.25W	5%	4R7 Ω
R7314	D0GB153JA072	SMD	0.1W	5%	15K Ω
R7315	D0GFR82JA020	SMD	0.25W	5%	R82 Ω
R7316	D0GFR82JA020	SMD	0.25W	5%	R82 Ω
R7317	D0GD820JA059	SMD	.125W	5%	82 Ω
R7318	D0GDR00J0004	SMD	.125W	5%	0 Ω
R7320	D0GB474JA068	SMD	0.1W	5%	470K Ω
R7321	D0GB472JA072	SMD	0.1W	5%	4K7 Ω
R7324	D0GD333JA052	SMD	.125W	5%	33K Ω
R7325	D0GD4R7JA059	SMD	0.25W	5%	4R7 Ω
R7330	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7331	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7332	D0GB103JA072	SMD	0.1W	5%	10K Ω
R7333	D0GB822JA072	SMD	0.1W	5%	8K2 Ω
R7336	D0GD102JA052	SMD	.125W	5%	1K Ω
R7337	D0GFR82JA020	SMD	0.25W	5%	R82 Ω
R7338	ERG2DJ474V	METAL	2W	5%	470K Ω
R7339	ERG2SJ101V	METAL	2W	5%	100 Ω
R7340	ERG2SJ101V	METAL	2W	5%	100 Ω
R7341	D0GB102JA071	SMD	0.1W	5%	1K Ω
R7342	D0GB102JA071	SMD	0.1W	5%	1K Ω
R7400	D1BD7872A066	SMD	.125W	1%	78K7 Ω
R7401	D1BD2492A066	SMD	.125W	1%	24K9 Ω
R7402	D0GD222JA052	SMD	.125W	5%	2K2 Ω
R7405	D0GD223JA052	SMD	.125W	5%	22K Ω
R7410	D0GD105JA052	SMD	.125W	5%	1M Ω
R7412	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7413	D0GB683JA070	SMD	0.1W	5%	68K Ω
R7419	D0GD182JA052	SMD	.125W	5%	1K8 Ω
R7420	D1BDR0470003	SMD	.125W	5%	R047 Ω
R7421	D0GD4R7JA059	SMD	0.25W	5%	4R7 Ω
R7422	D0GD474JA052	SMD	.125W	5%	470K Ω
R7501	D0GB154JA068	SMD	0.1W	5%	150K Ω
R7502	D0GB564JA068	SMD	0.1W	5%	560K Ω
R7503	D0GB223JA070	SMD	0.1W	5%	22K Ω
R7504	D0GB333JA070	SMD	0.1W	5%	33K Ω
R7511	D0GB103JA072	SMD	0.1W	5%	10K Ω
R7512	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7515	D0GB183JA072	SMD	0.1W	5%	18K Ω
R7516	D0GB471JA069	SMD	0.1W	5%	470 Ω
R7517	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7519	D1BD1542A066	SMD	.125W	1%	15K4 Ω
R7520	D1BD2871A066	SMD	.125W	1%	2K87 Ω
R7521	D0GB473JA072	SMD	0.1W	5%	47K Ω
R7522	D0GB103JA072	SMD	0.1W	5%	10K Ω
R7523	D0GD220JA052	SMD	.125W	5%	22 Ω
R7524	D0GBR00J0004	SMD	0.1W	5%	0 Ω
R7525	D0GFR00J0005	SMD	0.25W	5%	0 Ω
R7526	D0GB102JA071	SMD	0.1W	5%	1K Ω
R7527	D0GB822JA072	SMD	0.1W	5%	8K2 Ω
R7528	D0GB102JA071	SMD	0.1W	5%	1K Ω

Cct Ref	Parts Number	Description			
R7529	D1BD2871A066	SMD	.125W	1%	2K87 Ω
R7530	D1BD2552A066	SMD	.125W	1%	25K5 Ω
R7531	D0GB104JA068	SMD	0.1W	5%	100K Ω
R7532	D0GB154JA068	SMD	0.1W	5%	150K Ω
R8008	D0GA331JA023	SMD	.063W	5%	330 Ω
R8009	D0GA1R1JA023	SMD	.063W	5%	1R1 Ω
R8100	D1BB2001A197	SMD	0.1W	0.5	2K Ω
R8101	D1BB1051A087	SMD	0.1W	0.5	1K05 Ω
R8111	D1BB2001A197	SMD	0.1W	0.5	2K Ω
R8112	D1BB1961A087	SMD	0.1W	0.5	1K96 Ω
R8200	D1BA2400A023	SMD	.063W	1%	240 Ω
R8203	D1BA2700A023	SMD	.063W	1%	270 Ω
R8204	D1BA2700A023	SMD	.063W	1%	270 Ω
R8205	D1BA2700A023	SMD	.063W	1%	270 Ω
R8206	D1BA2700A023	SMD	.063W	1%	270 Ω
R8207	D1BA2700A023	SMD	.063W	1%	270 Ω
R8208	D1BA2700A023	SMD	.063W	1%	270 Ω
R8217	D0GA221JA023	SMD	.063W	5%	220 Ω
R8218	D0GA221JA023	SMD	.063W	5%	220 Ω
R8219	D1BA2400A023	SMD	.063W	1%	240 Ω
R8220	D1BA2400A023	SMD	.063W	1%	240 Ω
R8221	D0GA103JA023	SMD	.063W	5%	10K Ω
R8230	D1BA2700A023	SMD	.063W	1%	270 Ω
R8231	D1BA2700A023	SMD	.063W	1%	270 Ω
R8232	D1BA2700A023	SMD	.063W	1%	270 Ω
R8233	D1BA2700A023	SMD	.063W	1%	270 Ω
R8234	D0GA470JA023	SMD	.063W	5%	47 Ω
R8235	D0GA470JA023	SMD	.063W	5%	47 Ω
R8236	D0GA470JA023	SMD	.063W	5%	47 Ω
R8237	D0GA470JA023	SMD	.063W	5%	47 Ω
R8238	D0GA220JA023	SMD	.063W	5%	22 Ω
R8240	D1HY2208A012	SMD	.063W	5%	22 Ω
R8241	D1HY2204A012	SMD	.063W	5%	22 Ω
R8242	D1HY2204A012	SMD	.063W	5%	22 Ω
R8243	D1HY2204A012	SMD	.063W	5%	22 Ω
R8300	D0GA471JA023	SMD	.063W	5%	470 Ω
R8301	D1BA6201A023	SMD	.063W	1%	6K2 Ω
R8302	D0GA360JA023	SMD	.063W	5%	36 Ω
R8303	D0GA360JA023	SMD	.063W	5%	36 Ω
R8304	D0GA360JA023	SMD	.063W	5%	36 Ω
R8305	D0GA360JA023	SMD	.063W	5%	36 Ω
R8400	D0GA680JA023	SMD	.063W	5%	68 Ω
R8401	D0GA680JA023	SMD	.063W	5%	68 Ω
R8402	D0GA680JA023	SMD	.063W	5%	68 Ω
R8403	D0GA680JA023	SMD	.063W	5%	68 Ω
R8404	D0GA680JA023	SMD	.063W	5%	68 Ω
R8405	D0GA680JA023	SMD	.063W	5%	68 Ω
R8406	D1HY6808A012	SMD	.063W	5%	68 Ω
R8407	D1HY6808A012	SMD	.063W	5%	68 Ω
R8408	D1HY6808A012	SMD	.063W	5%	68 Ω
R8409	D1HY6804A012	SMD	.063W	5%	68 Ω
R8410	D1HY6808A012	SMD	.063W	5%	68 Ω
R8411	D1HY6808A012	SMD	.063W	5%	68 Ω
R8418	D0GA103JA023	SMD	.063W	5%	10K Ω
R8424	D0GA223JA023	SMD	.063W	5%	22K Ω
R8425	D0GA223JA023	SMD	.063W	5%	22K Ω
R8426	D0GA473JA023	SMD	.063W	5%	47K Ω
R8427	D0GA473JA023	SMD	.063W	5%	47K Ω
R8429	D0GA473JA023	SMD	.063W	5%	47K Ω
R8433	D0GA103JA023	SMD	.063W	5%	10K Ω
R8434	D0GA103JA023	SMD	.063W	5%	10K Ω
R8435	D0GA223JA023	SMD	.063W	5%	22K Ω
R8441	D0GA103JA023	SMD	.063W	5%	10K Ω
R8442	D0GA103JA023	SMD	.063W	5%	10K Ω
R8444	D0GA103JA023	SMD	.063W	5%	10K Ω
R8445	D1HY1018A012	SMD	.063W	5%	100 Ω
R8450	D0GA103JA023	SMD	.063W	5%	10K Ω
R8451	D0GA103JA023	SMD	.063W	5%	10K Ω

Cct Ref	Parts Number	Description			
R8453	D1BA3742A014	SMD	.063W	1%	37K4 Ω
R8454	D0GA103JA023	SMD	.063W	5%	10K Ω
R8455	D0GA103JA023	SMD	.063W	5%	10K Ω
R8456	D0GA104JA023	SMD	.063W	5%	100K Ω
R8457	D1BA1822A014	SMD	.063W	1%	18K2 Ω
R8458	D1BA3742A014	SMD	.063W	1%	37K4 Ω
R8459	D1BA3742A014	SMD	.063W	1%	37K4 Ω
R8469	D0GA103JA023	SMD	.063W	5%	10K Ω
R8470	D0GA103JA023	SMD	.063W	5%	10K Ω
R8472	D0GA104JA023	SMD	.063W	5%	100K Ω
R8480	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8482	D1BA6200A014	SMD	.063W	1%	620 Ω
R8483	D1BA30R0A014	SMD	.063W	1%	30 Ω
R8486	D0GA473JA023	SMD	.063W	5%	47K Ω
R8487	D0GA103JA023	SMD	.063W	5%	10K Ω
R8488	D0GA104JA023	SMD	.063W	5%	100K Ω
R8490	D0GA103JA023	SMD	.063W	5%	10K Ω
R8493	D0GA103JA023	SMD	.063W	5%	10K Ω
R8498	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8505	D0GA104JA023	SMD	.063W	5%	100K Ω
R8515	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8516	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8519	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8522	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8523	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8524	D0GAR00J0005	SMD	.063W	5%	0 Ω
R8601	D1BA75R0A023	SMD	.063W	1%	75 Ω
R8602	D1BA75R0A023	SMD	.063W	1%	75 Ω
R8603	D1BA75R0A023	SMD	.063W	1%	75 Ω
R8604	D1BA75R0A023	SMD	.063W	1%	75 Ω
R8611	D1BA2491A023	SMD	.063W	1%	2K49 Ω
R8612	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8613	D0GA680JA023	SMD	.063W	5%	68 Ω
R8614	D0GA680JA023	SMD	.063W	5%	68 Ω
R8616	D0GA680JA023	SMD	.063W	5%	68 Ω
R8617	D0GA680JA023	SMD	.063W	5%	68 Ω
R8620	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8622	D0GA680JA023	SMD	.063W	5%	68 Ω
R8623	D0GA680JA023	SMD	.063W	5%	68 Ω
R8624	D0GA680JA023	SMD	.063W	5%	68 Ω
R8625	D0GA152JA023	SMD	.063W	5%	1K5 Ω
R8626	D0GA680JA023	SMD	.063W	5%	68 Ω
R8627	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8629	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8630	D0GA680JA023	SMD	.063W	5%	68 Ω
R8631	D0GA680JA023	SMD	.063W	5%	68 Ω
R8634	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8635	D0GA680JA023	SMD	.063W	5%	68 Ω
R8636	D0GA680JA023	SMD	.063W	5%	68 Ω
R8660	D0GA560JA023	SMD	.063W	5%	56 Ω
R8661	D0GA560JA023	SMD	.063W	5%	56 Ω
R8662	D0GA560JA023	SMD	.063W	5%	56 Ω
R8663	D0GA560JA023	SMD	.063W	5%	56 Ω
R8664	D0GA560JA023	SMD	.063W	5%	56 Ω
R8665	D0GA560JA023	SMD	.063W	5%	56 Ω
R8666	D1HY1038A012	SMD	.063W	5%	10K Ω
R8667	D1HY5604A012	SMD	.063W	5%	56 Ω
R8668	D1HY5604A012	SMD	.063W	5%	56 Ω
R8669	D0GA220JA023	SMD	.063W	5%	22 Ω
R8673	D1BB1200A055	SMD	0.1W	1%	120 Ω
R8674	D1BB2000A055	SMD	0.1W	1%	200 Ω
R8755	D0GA104JA023	SMD	.063W	5%	100K Ω
R8797	D1BA1200A023	SMD	.063W	1%	120 Ω
R8798	D1BA56R0A023	SMD	.063W	1%	56 Ω
R8800	D0GA103JA023	SMD	.063W	5%	10K Ω
R8801	D0GA103JA023	SMD	.063W	5%	10K Ω
R8802	D0GA103JA023	SMD	.063W	5%	10K Ω
R8803	D0GA103JA023	SMD	.063W	5%	10K Ω

Cct Ref	Parts Number	Description			
R8817	D0GA103JA023	SMD	.063W	5%	10K Ω
R8821	D0GA103JA023	SMD	.063W	5%	10K Ω
R8829	D0GA103JA023	SMD	.063W	5%	10K Ω
R8850	D0GA331JA023	SMD	.063W	5%	330 Ω
R8851	D1BB7151A106	SMD	0.1W	1%	7K15 Ω
R8852	D0GA102JA023	SMD	.063W	5%	1K Ω
R8853	D0GA182JA023	SMD	.063W	5%	1K8 Ω
R8854	D0GA102JA023	SMD	.063W	5%	1K Ω
R8858	D0GA473JA023	SMD	.063W	5%	47K Ω
R8859	D0GA473JA023	SMD	.063W	5%	47K Ω
R8870	D0GA473JA023	SMD	.063W	5%	47K Ω
R8871	D0GA473JA023	SMD	.063W	5%	47K Ω
R8872	D0GA473JA023	SMD	.063W	5%	47K Ω
R8873	D0GA473JA023	SMD	.063W	5%	47K Ω
R8874	D0GA473JA023	SMD	.063W	5%	47K Ω
R8875	D0GA473JA023	SMD	.063W	5%	47K Ω
R8876	D0GA473JA023	SMD	.063W	5%	47K Ω
R8877	D0GA473JA023	SMD	.063W	5%	47K Ω
R8883	D0GA103JA023	SMD	.063W	5%	10K Ω
R8885	D0GA473JA023	SMD	.063W	5%	47K Ω
R8887	D0GA473JA023	SMD	.063W	5%	47K Ω
R8902	D0GA473JA023	SMD	.063W	5%	47K Ω
R8904	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R8909	D0GA222JA023	SMD	.063W	5%	2K2 Ω
R8910	D0GA103JA023	SMD	.063W	5%	10K Ω
R8911	EXB2HV121JV	SMD	.063W	5%	120 Ω
R9004	D0GA101JA023	SMD	.063W	5%	100 Ω
R9005	D0GA101JA023	SMD	.063W	5%	100 Ω
R9006	D0GA101JA023	SMD	.063W	5%	100 Ω
R9007	D0GA101JA023	SMD	.063W	5%	100 Ω
R9008	D0GA101JA023	SMD	.063W	5%	100 Ω
R9009	D0GA101JA023	SMD	.063W	5%	100 Ω
R9010	D0GA101JA023	SMD	.063W	5%	100 Ω
R9011	D0GA101JA023	SMD	.063W	5%	100 Ω
R9012	D0GA101JA023	SMD	.063W	5%	100 Ω
R9013	D0GA101JA023	SMD	.063W	5%	100 Ω
R9014	D0GA101JA023	SMD	.063W	5%	100 Ω
R9015	D0GA101JA023	SMD	.063W	5%	100 Ω
R9100	D1BA2400A023	SMD	.063W	1%	240 Ω
R9104	D0GA103JA023	SMD	.063W	5%	10K Ω
R9110	D0GA272JA023	SMD	.063W	5%	2K7 Ω
R9112	D0GA272JA023	SMD	.063W	5%	2K7 Ω
R9115	D0GA221JA023	SMD	.063W	5%	220 Ω
R9121	D0GD100JA052	SMD	.125W	5%	10 Ω
R9122	D0GD100JA052	SMD	.125W	5%	10 Ω
R9123	D0GD100JA052	SMD	.125W	5%	10 Ω
R9124	D0GD100JA052	SMD	.125W	5%	10 Ω
R9125	D0GD100JA052	SMD	.125W	5%	10 Ω
R9129	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R9250	D1BA1001A023	SMD	.063W	1%	1K Ω
R9251	D1BA1001A023	SMD	.063W	1%	1K Ω
R9252	D1HY2204A012	SMD	.063W	5%	22 Ω
R9253	D1HY2204A012	SMD	.063W	5%	22 Ω
R9254	D1HY2204A012	SMD	.063W	5%	22 Ω
R9255	D1HY2204A012	SMD	.063W	5%	22 Ω
R9256	D1HY2204A012	SMD	.063W	5%	22 Ω
R9257	D1HY2204A012	SMD	.063W	5%	22 Ω
R9258	D1HY2204A012	SMD	.063W	5%	22 Ω
R9259	D1HY2204A012	SMD	.063W	5%	22 Ω
R9260	D1HY2204A012	SMD	.063W	5%	22 Ω
R9261	D0GA220JA023	SMD	.063W	5%	22 Ω
R9262	D0GA220JA023	SMD	.063W	5%	22 Ω
R9263	D0GA220JA023	SMD	.063W	5%	22 Ω
R9264	D0GA220JA023	SMD	.063W	5%	22 Ω
R9265	D0GA220JA023	SMD	.063W	5%	22 Ω
R9266	D0GA220JA023	SMD	.063W	5%	22 Ω
R9267	D0GA220JA023	SMD	.063W	5%	22 Ω
R9268	D0GA220JA023	SMD	.063W	5%	22 Ω

Cct Ref	Parts Number	Description			
R9269	D0GA220JA023	SMD	.063W	5%	22 Ω
R9270	D1BA49R9A023	SMD	.063W	1%	49R9 Ω
R9271	D1BA49R9A023	SMD	.063W	1%	49R9 Ω
R9300	D1BA2202A023	SMD	.063W	1%	22K Ω
R9301	D1BA2202A023	SMD	.063W	1%	22K Ω
R9302	D0GA223JA023	SMD	.063W	5%	22K Ω
R9307	D1BB2001A197	SMD	0.1W	0.5	2K Ω
R9309	D1BB2001A197	SMD	0.1W	0.5	2K Ω
R9311	D1BB6800A087	SMD	0.1W	0.5	680 Ω
R9312	D1BB2801A087	SMD	0.1W	0.5	2K8 Ω
R9350	D0GA222JA023	SMD	.063W	5%	2K2 Ω
R9351	D1HY2204A012	SMD	.063W	5%	22 Ω
R9352	D0GA333JA023	SMD	.063W	5%	33K Ω
R9353	D0GA102JA023	SMD	.063W	5%	1K Ω
R9354	D0GA103JA023	SMD	.063W	5%	10K Ω
R9356	D0GA473JA023	SMD	.063W	5%	47K Ω
R9357	D0GA472JA023	SMD	.063W	5%	4K7 Ω
R9359	D0GA103JA023	SMD	.063W	5%	10K Ω
R9360	D0GA103JA023	SMD	.063W	5%	10K Ω
R9361	D0GA102JA023	SMD	.063W	5%	1K Ω
R9363	D0GA560JA023	SMD	.063W	5%	56 Ω
R9364	D0GA560JA023	SMD	.063W	5%	56 Ω
R9365	D0GA560JA023	SMD	.063W	5%	56 Ω
R9371	D0GA103JA023	SMD	.063W	5%	10K Ω
R9372	D0GA103JA023	SMD	.063W	5%	10K Ω
R9902	D0GA101JA023	SMD	.063W	5%	100 Ω
R9903	D0GAR00J0005	SMD	.063W	5%	0 Ω
R9905	D0GAR00J0005	SMD	.063W	5%	0 Ω

CAPACITORS

C1958	F1G1E1030005	S.M.CAP	25V	10nF
C2000	F1G1A105A047	S.M.CAP	10V	1000nF
C2014	F1K1E106A134	S.M.CAP	25V	10μF
C2023	F1G1C104A077	S.M.CAP	16V	100nF
C2802	F1G1C1030008	S.M.CAP	16V	10nF
C2805	F1H1C104A041	CERAMIC	16V	100nF
C2811	F1J1A106A087	S.M.CAP	10V	10μF
C3061	F1G1C104A077	S.M.CAP	16V	100nF
C3062	F1G1C104A077	S.M.CAP	16V	100nF
C3063	F1G1C104A077	S.M.CAP	16V	100nF
C3065	F1G1H220A834	S.M.CAP	50V	22pF
C3084	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3085	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3086	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3108	F1G1H561A830	S.M.CAP	50V	560pF
C3109	F1G1H561A830	S.M.CAP	50V	560pF
C3114	F1G1E333A059	S.M.CAP	25V	33nF
C3115	F1G1E333A059	S.M.CAP	25V	33nF
C3116	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3117	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3118	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3124	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3130	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3131	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3132	F1H0J105A051	S.M.CAP	6.3V	1000nF
C3145	F1J1A106A087	S.M.CAP	10V	10μF
C3147	F1J1A106A087	S.M.CAP	10V	10μF
C3151	F1H1A105A099	S.M.CAP	10V	1000nF
C3152	F1H1A105A099	S.M.CAP	10V	1000nF
C3159	F1H1A105A099	S.M.CAP	10V	1000nF
C3160	F1H1A105A099	S.M.CAP	10V	1000nF
C3171	F1J1A106A087	S.M.CAP	10V	10μF
C3172	F1J1A106A087	S.M.CAP	10V	10μF
C3175	F1J1E105A287	S.M.CAP	25V	1000nF
C3176	F1J1A106A087	S.M.CAP	10V	10μF
C3177	F1J1E105A287	S.M.CAP	25V	1000nF
C3750	F1J1H102A909	S.M.CAP	50V	1nF
C4000	F1H1H103B047	S.M.CAP	50V	10nF

Cct Ref	Parts Number	Description		
C4001	F1H1H103B047	S.M.CAP	50V	10nF
C4003	EEH1B1C101UP	ELECT	16V	100µF
C4037	F1K1E106A134	S.M.CAP	25V	10µF
C4038	F1K1E106A134	S.M.CAP	25V	10µF
C4039	F1H1A105A099	S.M.CAP	10V	1000nF
C4040	F1G1C104A077	S.M.CAP	16V	100nF
C4702	F1H0J105A051	S.M.CAP	6.3V	1000nF
C4713	F1G1C104A077	S.M.CAP	16V	100nF
C4716	F1G1C104A077	S.M.CAP	16V	100nF
C4722	F1G1C104A077	S.M.CAP	16V	100nF
C4723	F1G1C104A077	S.M.CAP	16V	100nF
C4727	F1J1A106A087	S.M.CAP	10V	10µF
C4900	F1K1V106A010	S.M.CAP	35V	10µF
C4901	F1K1V106A010	S.M.CAP	35V	10µF
C4903	F1G1C104A077	S.M.CAP	16V	100nF
C4904	F1G1C104A077	S.M.CAP	16V	100nF
C4905	F1G1C104A077	S.M.CAP	16V	100nF
C4906	F1G1C104A077	S.M.CAP	16V	100nF
C4907	F1K1V106A010	S.M.CAP	35V	10µF
C4909	F1K1V106A010	S.M.CAP	35V	10µF
C4921	F1J1E474A272	S.M.CAP	25V	470nF
C4922	F1J1E474A272	S.M.CAP	25V	470nF
C4923	F1J1E474A272	S.M.CAP	25V	470nF
C4924	F1J1E474A272	S.M.CAP	25V	470nF
C4971	F2G0G101A007	ELECT	4V	100µF
C4972	F2G0G101A007	ELECT	4V	100µF
C5000	F1G1A105A047	S.M.CAP	10V	1000nF
C5002	F1G1A105A047	S.M.CAP	10V	1000nF
C5004	F1G1A105A047	S.M.CAP	10V	1000nF
C5006	F1J1E105A287	S.M.CAP	25V	1000nF
C5012	F1G1A105A047	S.M.CAP	10V	1000nF
C5020	F1G1C104A077	S.M.CAP	16V	100nF
C5021	F1G1A105A047	S.M.CAP	10V	1000nF
C5022	F1G1A105A047	S.M.CAP	10V	1000nF
C5026	F1H1C105A145	S.M.CAP	16V	1000nF
C5150	F1G1E1030005	S.M.CAP	25V	10nF
C5151	F1G1E1030005	S.M.CAP	25V	10nF
C5171	F1G1C1030008	S.M.CAP	16V	10nF
C5301	F1K1E106A134	S.M.CAP	25V	10µF
C5303	F1K1E106A134	S.M.CAP	25V	10µF
C5305	F1K1E106A134	S.M.CAP	25V	10µF
C5308	F1G1H1020008	S.M.CAP	50V	1nF
C5309	F1G1H101A834	S.M.CAP	50V	100pF
C5310	F1G1E1030005	S.M.CAP	25V	10nF
C5311	F1K1E106A134	S.M.CAP	25V	10µF
C5312	EEH1B1C101UP	ELECT	16V	100µF
C5313	EEH1B1C101UP	ELECT	16V	100µF
C5316	F1J1E475A182	S.M.CAP	25V	4700nF
C5317	F1H1C474A178	S.M.CAP	16V	470nF
C5400	F1K1V106A010	S.M.CAP	35V	10µF
C5401	F1K1V106A010	S.M.CAP	35V	10µF
C5402	F1G1C104A077	S.M.CAP	16V	100nF
C5403	F1J0J2260004	S.M.CAP	6.3V	22µF
C5404	F1J0J2260004	S.M.CAP	6.3V	22µF
C5407	F1G1E333A059	S.M.CAP	25V	33nF
C5408	F1G1H222A830	S.M.CAP	50V	2.2nF
C5420	F1K1V106A010	S.M.CAP	35V	10µF
C5421	F1K1V106A010	S.M.CAP	35V	10µF
C5422	F1G1C104A077	S.M.CAP	16V	100nF
C5423	F1J0J2260004	S.M.CAP	6.3V	22µF
C5424	F1J0J2260004	S.M.CAP	6.3V	22µF
C5427	F1G1E333A059	S.M.CAP	25V	33nF
C5428	F1G1H222A830	S.M.CAP	50V	2.2nF
C5440	F1K1V106A010	S.M.CAP	35V	10µF
C5441	F1K1V106A010	S.M.CAP	35V	10µF
C5442	F1G1C223A081	S.M.CAP	16V	22nF
C5443	F1J0J2260004	S.M.CAP	6.3V	22µF
C5444	F1J0J2260004	S.M.CAP	6.3V	22µF

Cct Ref	Parts Number	Description		
C5448	F1H1C105A145	S.M.CAP	16V	1000nF
C5449	F1G1C104A077	S.M.CAP	16V	100nF
C5450	F1G1H100A833	S.M.CAP	50V	10pF
C5780	F1K1V106A010	S.M.CAP	35V	10µF
C5781	F1K1V106A010	S.M.CAP	35V	10µF
C5782	F1J0G2260001	S.M.CAP	4V	22µF
C5783	F1J0G2260001	S.M.CAP	4V	22µF
C5784	F1G1C104A077	S.M.CAP	16V	100nF
C5786	F1G1E333A059	S.M.CAP	25V	33nF
C5788	F1G1E472A144	S.M.CAP	25V	4.7nF
C6707	F1G1C104A077	S.M.CAP	16V	100nF
C6708	F1J1A106A087	S.M.CAP	10V	10µF
C6710	F1G1C104A077	S.M.CAP	16V	100nF
C6719	F1G1C104A077	S.M.CAP	16V	100nF
C6723	F1G1H330A834	S.M.CAP	50V	33pF
C6724	F1G1H330A834	S.M.CAP	50V	33pF
C6733	F1G1C104A077	S.M.CAP	16V	100nF
C6740	F1J1A106A087	S.M.CAP	10V	10µF
C6743	F1G1C104A077	S.M.CAP	16V	100nF
C6744	F1G1C104A077	S.M.CAP	16V	100nF
C6745	F1G1C104A077	S.M.CAP	16V	100nF
C6746	F1G1C104A077	S.M.CAP	16V	100nF
C6775	F1J1A106A087	S.M.CAP	10V	10µF
C6858	F1H1C105A145	S.M.CAP	16V	1000nF
C6903	F1G1C104A077	S.M.CAP	16V	100nF
C6904	F1G1C104A077	S.M.CAP	16V	100nF
C6905	F1G1C104A077	S.M.CAP	16V	100nF
C6906	F1G1H100A833	S.M.CAP	50V	10pF
C6907	F1G1H120A834	S.M.CAP	50V	12pF
C6908	F1G1C104A077	S.M.CAP	16V	100nF
C6909	F1G1C104A077	S.M.CAP	16V	100nF
C6911	F1G1C104A077	S.M.CAP	16V	100nF
C6912	F1G1C104A077	S.M.CAP	16V	100nF
C6913	F1G1C104A077	S.M.CAP	16V	100nF
C6914	F1G1C104A077	S.M.CAP	16V	100nF
C6915	F1G1C104A077	S.M.CAP	16V	100nF
C6916	F1J1A106A087	S.M.CAP	10V	10µF
C6917	F1G1C104A077	S.M.CAP	16V	100nF
C6918	F1J1A106A087	S.M.CAP	10V	10µF
C7101	F0CAF224A105	S.M.CAP	250V	220nF
C7102	F0CAF224A105	S.M.CAP	250V	220nF
C7103	F1A2E471A007	CERAMIC	250V	470pF
C7104	F1A2E471A007	CERAMIC	250V	470pF
C7201	ECWF2W824KAC	FILM	450V	820nF
C7203	F1J1H102A909	S.M.CAP	50V	1nF
C7204	F1J1H223A900	S.M.CAP	50V	22nF
C7205	F1J1E224A272	S.M.CAP	25V	220nF
C7208	F1J1H474A757	S.M.CAP	50V	470nF
C7209	F1J1H104A902	S.M.CAP	50V	100nF
C7211	F1J1H103A702	S.M.CAP	50V	10nF
C7213	F1A3A101A060	CERAMIC	1KV	100pF
C7217	F1J1H102A909	S.M.CAP	50V	1nF
C7218	F1A3A101A060	CERAMIC	1KV	100pF
C7301	F2A2W4700021	ELECT	450V	47µF
C7306	F1A3A101A060	CERAMIC	1KV	100pF
C7308	F1A2E102A008	CERAMIC	250V	1000pF
C7311	F1J1H101A906	S.M.CAP	50V	100pF
C7312	F1J1H105A919	S.M.CAP	50V	1000nF
C7313	F2A1H330A122	ELECT	50V	33µF
C7314	F1J1H102A909	S.M.CAP	50V	1nF
C7316	F1A3A102A060	CERAMIC	1KV	1nF
C7317	F1A3A102A060	CERAMIC	1KV	1nF
C7402	F1K1E106A134	S.M.CAP	25V	10µF
C7404	F1K1E106A134	S.M.CAP	25V	10µF
C7406	F1J1H472A900	S.M.CAP	50V	4.7nF
C7413	F1J1H221A906	S.M.CAP	50V	220pF
C7414	F1J1H223A900	S.M.CAP	50V	22nF
C7415	F1J1H222A911	S.M.CAP	50V	2200nF



Cct Ref	Parts Number	Description		
C7416	F1J1E105A287	S.M.CAP	25V	1000nF
C7417	F1J1E224A272	S.M.CAP	25V	220nF
C7418	F1J1E105A287	S.M.CAP	25V	1000nF
C7419	F1K1E106A134	S.M.CAP	25V	10μF
C7420	F1K1E106A134	S.M.CAP	25V	10μF
C7502	F2A1V102B662	ELECT	35V	1000μF
C7506	F1J1E105A287	S.M.CAP	25V	1000nF
C7511	F2A1E222B927	ELECT	25V	2200μF
C7515	F1J1E334A227	S.M.CAP	25V	330nF
C7520	F1J1A335A109	S.M.CAP	10V	3300nF
C7523	F1J1H103A900	S.M.CAP	50V	10nF
C7529	F1A3A471A060	CERAMIC	1KV	470pF
C7530	F1A3A471A060	CERAMIC	1KV	470pF
C8002	F1J1A106A087	S.M.CAP	10V	10μF
C8004	F1G1C104A077	S.M.CAP	16V	100nF
C8005	F1G1C104A077	S.M.CAP	16V	100nF
C8007	F1J1A106A087	S.M.CAP	10V	10μF
C8014	F1J0G2260001	S.M.CAP	4V	22μF
C8017	F1G1C104A077	S.M.CAP	16V	100nF
C8019	F1G1C104A077	S.M.CAP	16V	100nF
C8020	F1G1C104A077	S.M.CAP	16V	100nF
C8022	F1G1C104A077	S.M.CAP	16V	100nF
C8023	F1G1C104A077	S.M.CAP	16V	100nF
C8024	F1G1C104A077	S.M.CAP	16V	100nF
C8025	F1G1A105A047	S.M.CAP	10V	1000nF
C8031	F1J1A106A087	S.M.CAP	10V	10μF
C8033	F1J1A106A087	S.M.CAP	10V	10μF
C8034	F1J0G2260001	S.M.CAP	4V	22μF
C8035	F1G1C104A077	S.M.CAP	16V	100nF
C8036	F1G1A105A047	S.M.CAP	10V	1000nF
C8038	F1J0G2260001	S.M.CAP	4V	22μF
C8039	F1J0G2260001	S.M.CAP	4V	22μF
C8100	F1G1C223A146	S.M.CAP	16V	22nF
C8101	F1H1C105A145	S.M.CAP	16V	1000nF
C8102	F1G1C104A077	S.M.CAP	16V	100nF
C8103	F1K1E106A134	S.M.CAP	25V	10μF
C8105	F1J0G2260001	S.M.CAP	4V	22μF
C8106	F1J0G2260001	S.M.CAP	4V	22μF
C8108	F1H1E104A029	S.M.CAP	25V	100nF
C8110	F1G1C183A146	S.M.CAP	16V	18nF
C8111	F1H1C105A145	S.M.CAP	16V	1000nF
C8112	F1G1C104A077	S.M.CAP	16V	100nF
C8113	F1K1E106A134	S.M.CAP	25V	10μF
C8115	F1J0G2260001	S.M.CAP	4V	22μF
C8116	F1J0G2260001	S.M.CAP	4V	22μF
C8118	F1H1E104A029	S.M.CAP	25V	100nF
C8203	F1G1C104A077	S.M.CAP	16V	100nF
C8204	F1G1C104A077	S.M.CAP	16V	100nF
C8205	F1G1C104A077	S.M.CAP	16V	100nF
C8206	F1G1C104A077	S.M.CAP	16V	100nF
C8207	F1J1A106A087	S.M.CAP	10V	10μF
C8208	F1G1C104A077	S.M.CAP	16V	100nF
C8210	F1G1C104A077	S.M.CAP	16V	100nF
C8212	F1G1C104A077	S.M.CAP	16V	100nF
C8215	F1G1C104A077	S.M.CAP	16V	100nF
C8216	F1J1A106A087	S.M.CAP	10V	10μF
C8218	F1G1C104A077	S.M.CAP	16V	100nF
C8220	F1G1C104A077	S.M.CAP	16V	100nF
C8221	F1G1C104A077	S.M.CAP	16V	100nF
C8224	F1G1C104A077	S.M.CAP	16V	100nF
C8229	F1G1A105A047	S.M.CAP	10V	1000nF
C8230	F1G1C104A077	S.M.CAP	16V	100nF
C8231	F1G1C104A077	S.M.CAP	16V	100nF
C8232	F1G1C104A077	S.M.CAP	16V	100nF
C8300	F1G1H9R0A831	S.M.CAP	50V	9pF
C8301	F1G1H9R0A831	S.M.CAP	50V	9pF
C8304	F1G1A105A047	S.M.CAP	10V	1000nF
C8305	F1G1A105A047	S.M.CAP	10V	1000nF

Cct Ref	Parts Number	Description		
C8306	F1G1A105A047	S.M.CAP	10V	1000nF
C8307	F1G1A105A047	S.M.CAP	10V	1000nF
C8308	F1G1A105A047	S.M.CAP	10V	1000nF
C8309	F1G1A105A047	S.M.CAP	10V	1000nF
C8310	F1G1A105A047	S.M.CAP	10V	1000nF
C8311	F1G1A105A047	S.M.CAP	10V	1000nF
C8312	F1G1A105A047	S.M.CAP	10V	1000nF
C8401	F1G1C104A077	S.M.CAP	16V	100nF
C8402	F1K0J226A049	S.M.CAP	6.3V	22μF
C8403	F1K0J226A049	S.M.CAP	6.3V	22μF
C8406	F1G1C104A077	S.M.CAP	16V	100nF
C8407	F1G1C104A077	S.M.CAP	16V	100nF
C8452	F1J1A106A087	S.M.CAP	10V	10μF
C8453	F1G1C104A077	S.M.CAP	16V	100nF
C8454	EEH0J221UP	ELECT	6.3V	220μF
C8455	F1J1A106A087	S.M.CAP	10V	10μF
C8457	F1G1C104A077	S.M.CAP	16V	100nF
C8461	F1J1A106A087	S.M.CAP	10V	10μF
C8462	F1J1A106A087	S.M.CAP	10V	10μF
C8463	F1G1C104A077	S.M.CAP	16V	100nF
C8464	F1G1C104A077	S.M.CAP	16V	100nF
C8465	EEH0J221UP	ELECT	6.3V	220μF
C8466	EEH0J221UP	ELECT	6.3V	220μF
C8467	F1J1A106A087	S.M.CAP	10V	10μF
C8469	F1J1A106A087	S.M.CAP	10V	10μF
C8470	F1G1C104A077	S.M.CAP	16V	100nF
C8471	F1G1C104A077	S.M.CAP	16V	100nF
C8474	F1J1A106A087	S.M.CAP	10V	10μF
C8475	F1G1C104A077	S.M.CAP	16V	100nF
C8477	F1J1A106A087	S.M.CAP	10V	10μF
C8478	F1G1C104A077	S.M.CAP	16V	100nF
C8479	F1G1C104A077	S.M.CAP	16V	100nF
C8480	F1G1C104A077	S.M.CAP	16V	100nF
C8481	F1H1C105A145	S.M.CAP	16V	1000nF
C8482	F1G1C104A077	S.M.CAP	16V	100nF
C8483	F1H1C105A145	S.M.CAP	16V	1000nF
C8484	F1G1H120A834	S.M.CAP	50V	12pF
C8485	F1G1H120A834	S.M.CAP	50V	12pF
C8486	F1G1C104A077	S.M.CAP	16V	100nF
C8487	F1G1C104A077	S.M.CAP	16V	100nF
C8488	F1H1C105A145	S.M.CAP	16V	1000nF
C8489	F1G1C104A077	S.M.CAP	16V	100nF
C8490	F1G1C104A077	S.M.CAP	16V	100nF
C8491	F1G1C104A077	S.M.CAP	16V	100nF
C8492	F1G1C104A077	S.M.CAP	16V	100nF
C8600	F1L3D1020008	S.M.CAP	2KV	1nF
C8601	F1G1C1030008	S.M.CAP	16V	10nF
C8602	F1G1C1030008	S.M.CAP	16V	10nF
C8603	F1G1H8R0A831	S.M.CAP	50V	8pF
C8604	F1G1H8R0A831	S.M.CAP	50V	8pF
C8611	F1G1C104A077	S.M.CAP	16V	100nF
C8613	F1G1C104A077	S.M.CAP	16V	100nF
C8615	F1G1C104A077	S.M.CAP	16V	100nF
C8619	F1G1C104A077	S.M.CAP	16V	100nF
C8621	F1G1C104A077	S.M.CAP	16V	100nF
C8660	F1G1C104A077	S.M.CAP	16V	100nF
C8661	F1G1C104A077	S.M.CAP	16V	100nF
C8668	F1G1C104A077	S.M.CAP	16V	100nF
C8669	F1J1A106A087	S.M.CAP	10V	10μF
C8670	F1J0G2260001	S.M.CAP	4V	22μF
C8671	F1G1H220A834	S.M.CAP	50V	22pF
C8673	F1J1A106A087	S.M.CAP	10V	10μF
C8675	F1G1A105A047	S.M.CAP	10V	1000nF
C8677	F1J1A106A087	S.M.CAP	10V	10μF
C8680	F1J1A106A087	S.M.CAP	10V	10μF
C8714	F1J1A106A087	S.M.CAP	10V	10μF
C8715	F1J1A106A087	S.M.CAP	10V	10μF
C8764	F1J1A475A039	S.M.CAP	10V	4.7μF

Cct Ref	Parts Number	Description		
C8765	F1J1A475A039	S.M.CAP	10V	4.7μF
C8850	F1G1E1030005	S.M.CAP	25V	10nF
C8900	F1G1C104A077	S.M.CAP	16V	100nF
C8901	F1G1C104A077	S.M.CAP	16V	100nF
C8902	F1G1C104A077	S.M.CAP	16V	100nF
C9052	F1K1E106A134	S.M.CAP	25V	10μF
C9053	F1H1H103B047	S.M.CAP	50V	10nF
C9102	F1G1C104A077	S.M.CAP	16V	100nF
C9103	F1G1C104A077	S.M.CAP	16V	100nF
C9105	F1G1H471A830	S.M.CAP	50V	470pF
C9106	F1G1C104A077	S.M.CAP	16V	100nF
C9112	F1G1C104A077	S.M.CAP	16V	100nF
C9114	F1G1C104A077	S.M.CAP	16V	100nF
C9116	F1G1H471A830	S.M.CAP	50V	470pF
C9117	F1G1H471A830	S.M.CAP	50V	470pF
C9118	F1G1H471A830	S.M.CAP	50V	470pF
C9119	F1H1A105A099	S.M.CAP	10V	1000nF
C9122	F1G1H471A830	S.M.CAP	50V	470pF
C9123	F1G1H471A830	S.M.CAP	50V	470pF
C9124	F1G1H471A830	S.M.CAP	50V	470pF
C9128	F1H1A105A099	S.M.CAP	10V	1000nF
C9131	F1G1H471A830	S.M.CAP	50V	470pF
C9133	F1G1H471A830	S.M.CAP	50V	470pF
C9134	F1G1H471A830	S.M.CAP	50V	470pF
C9135	F1G1H471A830	S.M.CAP	50V	470pF
C9136	F1G1C104A077	S.M.CAP	16V	100nF
C9138	F1H1A105A099	S.M.CAP	10V	1000nF
C9139	F1H1A105A099	S.M.CAP	10V	1000nF
C9140	F1G1C104A077	S.M.CAP	16V	100nF
C9142	F1G1C104A077	S.M.CAP	16V	100nF
C9146	F1G1C104A077	S.M.CAP	16V	100nF
C9147	F1G1C104A077	S.M.CAP	16V	100nF
C9152	F1G1C1030008	S.M.CAP	16V	10nF
C9154	F1G1C104A077	S.M.CAP	16V	100nF
C9156	F1J1A106A087	S.M.CAP	10V	10μF
C9157	F1J0G2260001	S.M.CAP	4V	22μF
C9159	F1J0G2260001	S.M.CAP	4V	22μF
C9160	F1J1A106A087	S.M.CAP	10V	10μF
C9162	F1G1C104A077	S.M.CAP	16V	100nF
C9163	F1G1H120A834	S.M.CAP	50V	12pF
C9164	F1G1C104A077	S.M.CAP	16V	100nF
C9165	F1G1C104A077	S.M.CAP	16V	100nF
C9166	F1G1C104A077	S.M.CAP	16V	100nF
C9167	F1G1C104A077	S.M.CAP	16V	100nF
C9168	F1G1C104A077	S.M.CAP	16V	100nF
C9169	F1G1H120A834	S.M.CAP	50V	12pF
C9170	F1J0G2260001	S.M.CAP	4V	22μF
C9171	F1J0G2260001	S.M.CAP	4V	22μF
C9172	F1J0G2260001	S.M.CAP	4V	22μF
C9173	F1J0G2260001	S.M.CAP	4V	22μF
C9174	F1J0G2260001	S.M.CAP	4V	22μF
C9182	F1J0G2260001	S.M.CAP	4V	22μF
C9183	F1G1H471A830	S.M.CAP	50V	470pF
C9184	F1G1C104A077	S.M.CAP	16V	100nF
C9250	F1G1H471A830	S.M.CAP	50V	470pF
C9251	F1G1A104A069	S.M.CAP	10V	100nF
C9252	F1G1A104A069	S.M.CAP	10V	100nF
C9253	F1G1H471A830	S.M.CAP	50V	470pF
C9254	F1J0G2260001	S.M.CAP	4V	22μF
C9256	F1G1A104A069	S.M.CAP	10V	100nF
C9258	F1G1A104A069	S.M.CAP	10V	100nF
C9259	F1G1A104A069	S.M.CAP	10V	100nF
C9261	F1G1A104A069	S.M.CAP	10V	100nF
C9262	F1G1A104A069	S.M.CAP	10V	100nF
C9266	F1G1H471A830	S.M.CAP	50V	470pF
C9275	F1G1H471A830	S.M.CAP	50V	470pF
C9278	F1G1H471A830	S.M.CAP	50V	470pF
C9279	F1G1A105A047	S.M.CAP	10V	1000nF

Cct Ref	Parts Number	Description		
C9280	F1G1A104A069	S.M.CAP	10V	100nF
C9303	F1H1C105A145	S.M.CAP	16V	1000nF
C9304	F1G1C104A077	S.M.CAP	16V	100nF
C9306	F1H1C105A145	S.M.CAP	16V	1000nF
C9307	F1G1C1030008	S.M.CAP	16V	10nF
C9309	F1G1C104A077	S.M.CAP	16V	100nF
C9310	F1H1E104A029	S.M.CAP	25V	100nF
C9311	F1G1C104A077	S.M.CAP	16V	100nF
C9312	F1H1E104A029	S.M.CAP	25V	100nF
C9313	F1K1E106A134	S.M.CAP	25V	10μF
C9314	F1K1E106A134	S.M.CAP	25V	10μF
C9315	F1K1E106A134	S.M.CAP	25V	10μF
C9317	F1J0G2260001	S.M.CAP	4V	22μF
C9318	F1J0G2260001	S.M.CAP	4V	22μF
C9319	F1J0G2260001	S.M.CAP	4V	22μF
C9323	F1J1A106A087	S.M.CAP	10V	10μF
C9329	F1H1A105A099	S.M.CAP	10V	1000nF
C9355	F1G1A1040006	SMD	10V	100nF
C9359	F1J1A106A087	S.M.CAP	10V	10μF
C9362	F1H1A105A099	S.M.CAP	10V	1000nF
TERMINALS AND LINKS				
.	K4AD01A00003	PLUG		
.	K4AD01D00008	TERMINAL		
A02	K1KY16BA0394	16P CONNECTOR		
A02-P2	TXJA02THUE	A02-P2 WIRE		
A10	K1KA14B00129	14P CONNECTOR		
A10-K10	TXJA10THUE	A10-K10 WIRE		
A12	K1KY04BA0387	4P CONNECTOR		
A12-SP	TXJA12THUE	A12-SPK WIRE		
A15	K1MY60BA0526	60P CONNECTOR		
A20	K1FY105E0017	USB TERMINAL		
A20-USB1	K1HY05YY0026	WIFI DONGLE CABLE		
CN0100	K1KA14A00248	14P CONNECTOR		
CN8660	K1NA12E00016	SD SLOT		
D3006	K7AAAY000014	OPTICAL LINK		
FFC2	TSCFF0030009	LVDS FFC2		
FFC3	TSCFF0030010	LVDS FFC3		
JK1070	K1NA68E00114	CI SLOT		
JK3001	K2HE2YYB0001	YUV, V/AUDIO IN TERMIN		
JK3003	K1FY120E0002	AV SCART TERMINAL		
JK3005	K1FY315B0002	PC TERMINAL		
JK3051	K2HC1YYB0079	HP TERMINAL		
JK4700A	K1FY119E0050	HDMI TERMINAL		
JK4701	K1FY119E0049	HDMI TERMINAL		
JK4702	K1FY119E0049	HDMI TERMINAL		
JK4703A	K1FY119E0050	HDMI TERMINAL		
JK7100	K2AAYB000006	MAIN INLET		
JK8450	K1FY104B0081	USB TERMINAL		
JK8451	K1FY104B0081	USB TERMINAL		
JK8452	K1FY104B0081	USB TERMINAL		
JK8600	K2LC1YYE0003	ETHERNET TERMINAL		
K10	K1KA07A00292	7P CONNECTOR		
P2	K1KY15BA0386	15P CONNECTOR		
P4	K1KY08BA0402	8P CONNECTOR		
P4-LD	TXJ/P4THUE	P4-LD WIRE		
TC01	K1MY51BA0526	51P CONNECTOR		
TC02	K1MY41BA0526	41P CONNECTOR		
TC11	K1MY60BA0526	60P CONNECTOR		
TC11-A15	TSCKF0010012	LVDS FFC		
SWITCHES				
SW3750	EVQ11G05R	SWITCH		
SW3754	EVQ11G05R	SWITCH		
SW3755	EVQ11G05R	SWITCH		
SW3756	EVQ11G05R	SWITCH		
SW3757	EVQ11G05R	SWITCH		
SW3758	EVQ11G05R	SWITCH		

Cct Ref	Parts Number	Description		
DIFFERENCES FOR MODEL TX--L32ET5B				
EXPLODED VIEW				
35	A-L32ET5B	A P.C.B.	X	RTL 
36	K2CT2YY00090	AC CORD		
37	TBM0E28011	MODEL LABEL		
MISCELLANEOUS COMPONENTS				
.	TBM0E30141	REAR AV LABEL		
INSTRUCTION BOOKS				
.	TQB0E2275	ENGLISH		
I.C.s				
IC8902	X24CL32ET5B	PEAKS EEP		
DIFFERENCES FOR MODEL TX--L32ET5Y				
EXPLODED VIEW				
35	A-L32ET5Y	A P.C.B.	X	RTL 
36	K2CQ2YY00107	AC CORD		
37	TBM0E28031	MODEL LABEL		
MISCELLANEOUS COMPONENTS				
.	TBM0E30141	REAR AV LABEL		
INSTRUCTION BOOKS				
.	TQB0E2277A	GERMAN		
.	TQB0E2277B	DUTCH		
.	TQB0E2277C	ITALIAN		
.	TQB0E2277D	FRENCH		
.	TQB0E2277E	SPANISH		
.	TQB0E2277F	SWEDISH		
.	TQB0E2277G	NORWEGIAN		
.	TQB0E2277H	FINNISH		
.	TQB0E2277I	LITHUANIAN		
.	TQB0E2277J	PORTUGUESE		
.	TQB0E2277K	DANISH		
.	TQB0E2277M	BULGARIAN		
.	TQB0E2277N	ROMANIAN		
.	TQB0E2277O	LATVIAN		
.	TQB0E2277P	POLISH		
.	TQB0E2277Q	HUNGARIAN		
.	TQB0E2277R	CZECH		
.	TQB0E2277S	GREEK		
.	TQB0E2277T	TURKISH		
.	TQB0E2277U	ENGLISH		
.	TQB0E2277V	CROATIAN		
.	TQB0E2277W	SLOVAKIAN		
.	TQB0E2277X	CD		
.	TQB0E2277Z	ESTONIAN		
I.C.s				
IC8902	X24CL32ET5Y	PEAKS EEP		
DIFFERENCES FOR MODEL TX--LR32ET5				
EXPLODED VIEW				
35	A-LR32ET5	A P.C.B.	X	RTL 
36	K2CQ2YY00107	AC CORD		
37	TBM0E28041	MODEL LABEL		
MISCELLANEOUS COMPONENTS				
.	TBM0E28491	REAR AV LABEL		
INSTRUCTION BOOKS				
.	TQB0E22099	KAZAKHSTAN		
.	TQB0E2209L	RUSSIAN		
.	TQB0E2209Y	UKRAINIAN		
I.C.s				
IC8902	X24CLR32ET5	PEAKS EEP		

Cct Ref	Parts Number	Description

Schematic Diagrams

IMPORTANT SAFETY NOTICE

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

NOTE

1. RESISTOR
All resistors are carbon 1/4W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.
3. COIL
Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT



Test Point Position

5. EARTH SYMBOL



Chassis Earth (Cold)



Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a D.C. voltmeter.

Measurement conditions are as follows:

Power source 220V-240V AC, 50/60 Hz

Receiving Signal Colour Bar signal (RF)

All customer controls Maximum position

- 7.



Indicates the Video signal path



Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

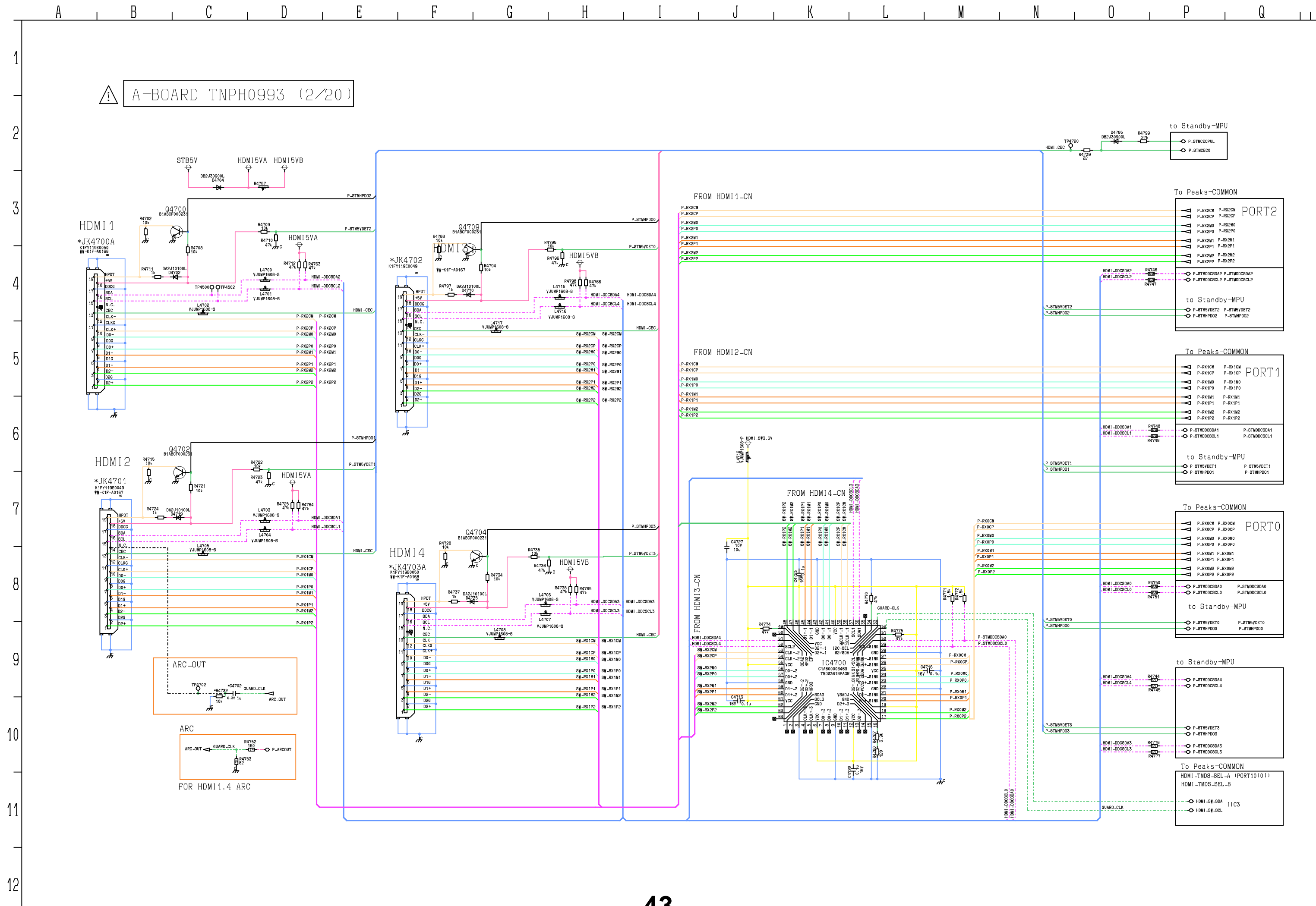
REMARKS

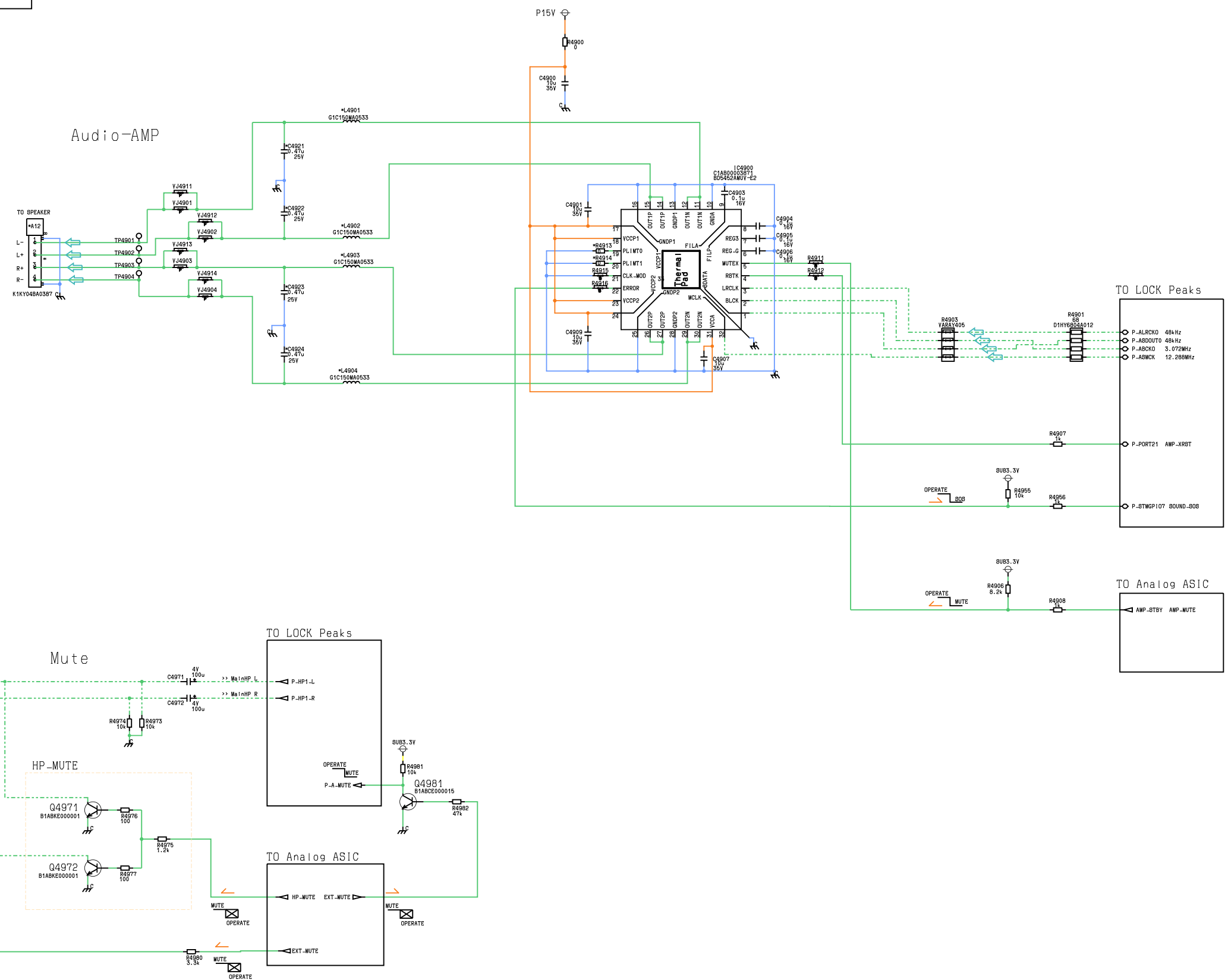
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

NOTE

1. The Power Supply 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. All circuits, except the Power Circuit, are COLD.

[illegible]







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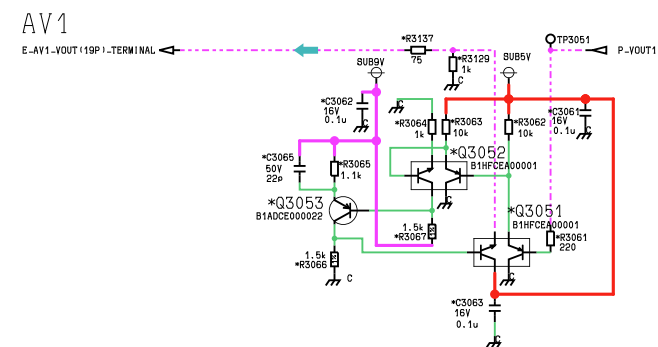
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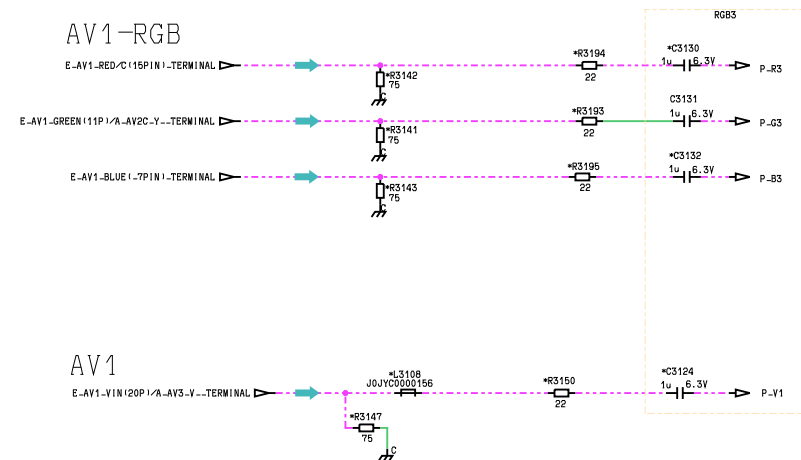
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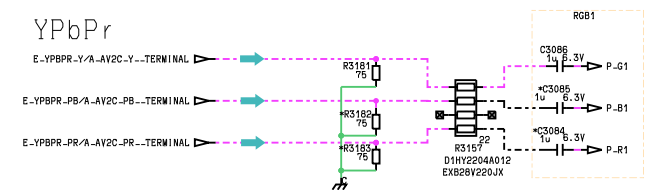
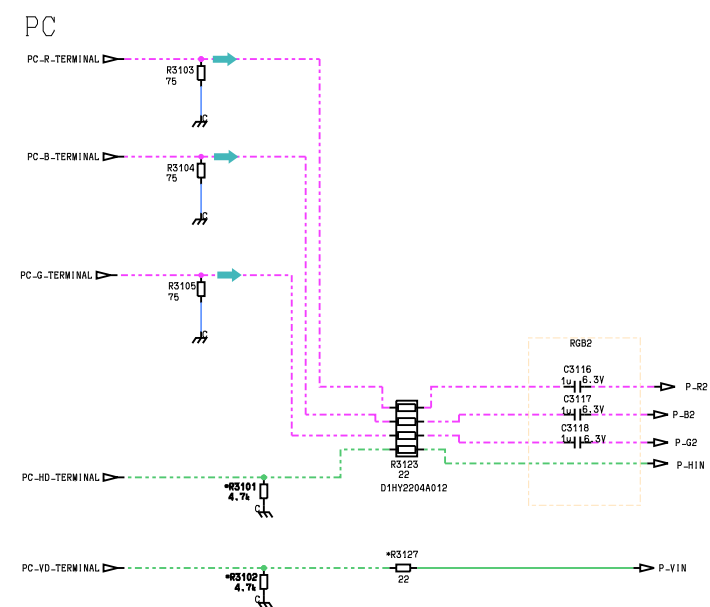
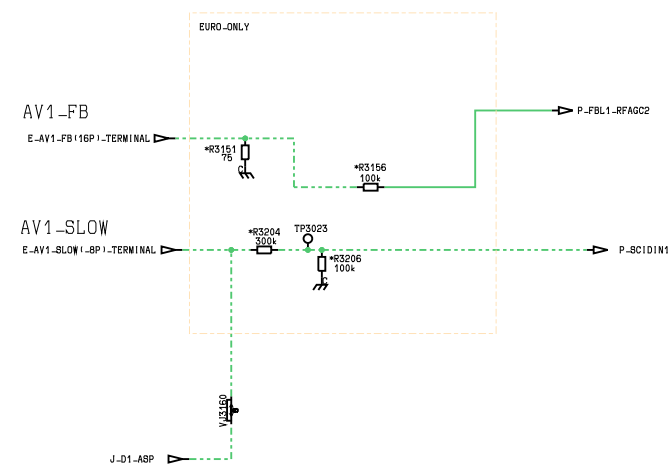
VIDEO-OUT



VIDEO-IN



VIDEO-DET



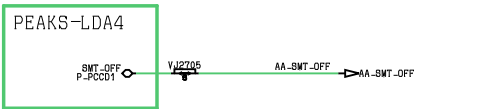
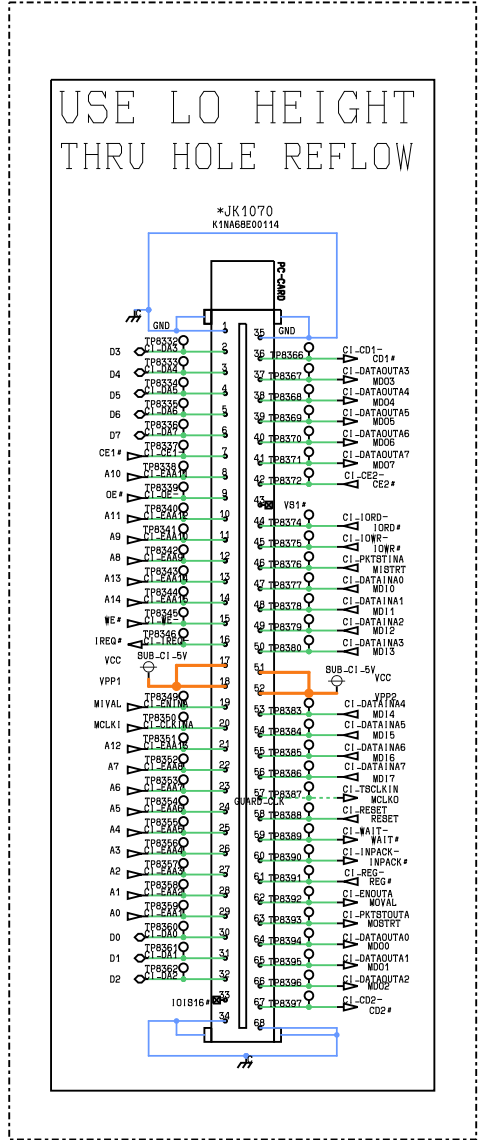
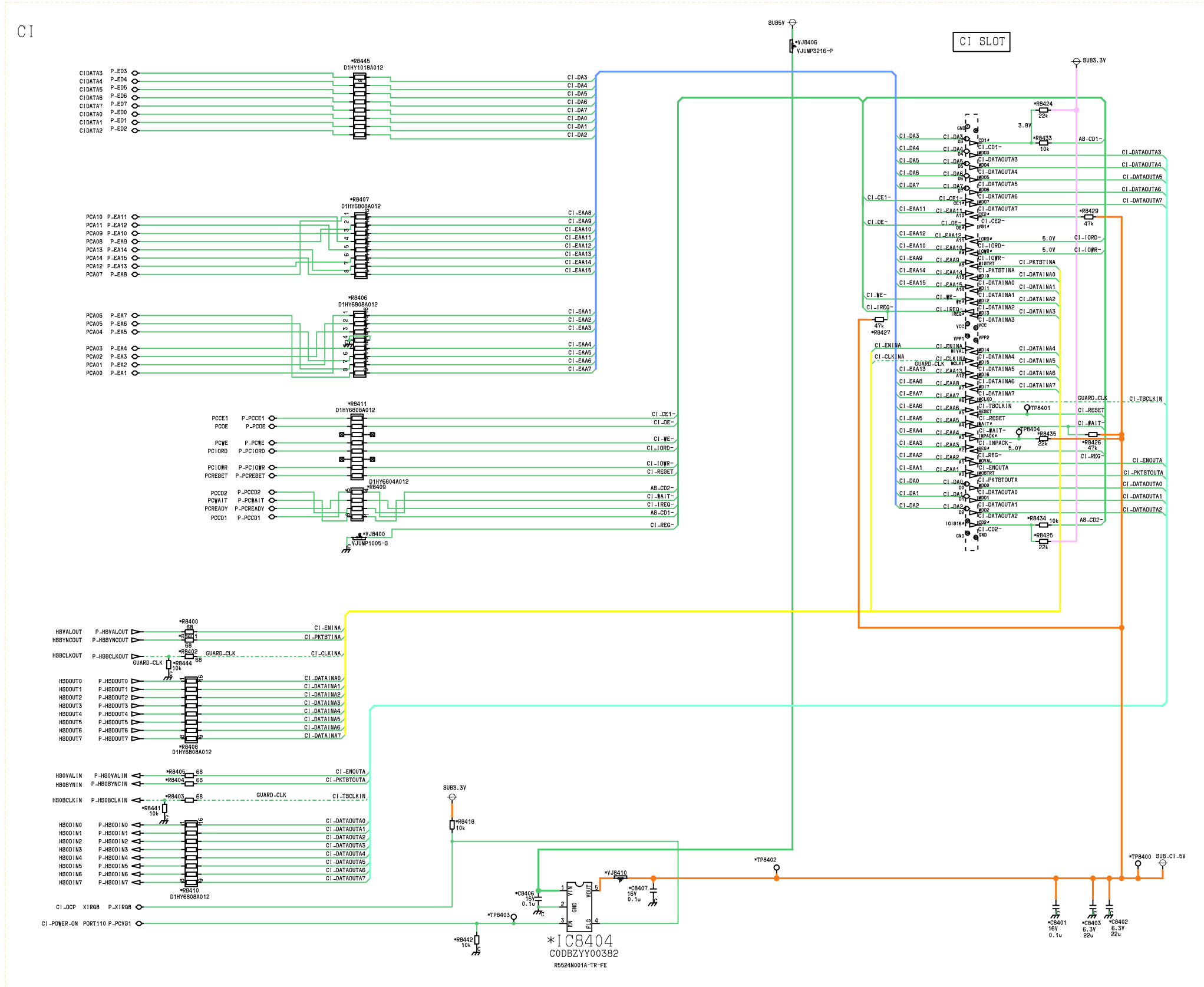
	Protein	Accession	Score	Length	Ident	Positives	Negatives	
KAKIN-OUT	P-LIN2-LP	OPEN	100	100	100	100	0	
	P-LIN2-RP	OPEN	100	100	100	100	0	
	P-Y1	OPEN	100	100	100	100	0	
	P-RFAGC	OPEN	100	100	100	100	0	
	P-S1F1NN	OPEN	100	100	100	100	0	
	P-S1F1NP	OPEN	100	100	100	100	0	
	P-L01-L	OPEN	100	100	100	100	0	
	P-L01-R	OPEN	100	100	100	100	0	
	P-SC1D1N2	OPEN	100	100	100	100	0	
	P-LIN4-LP	OPEN	100	100	100	100	0	
	P-LIN4-RP	OPEN	100	100	100	100	0	
	P-Y2	OPEN	100	100	100	100	0	
	KAKIN-IN	P-LIN2-LP	OPEN	100	100	100	100	0
		P-LIN2-RP	OPEN	100	100	100	100	0
P-Y1		OPEN	100	100	100	100	0	
P-RFAGC		OPEN	100	100	100	100	0	
P-S1F1NN		OPEN	100	100	100	100	0	
P-S1F1NP		OPEN	100	100	100	100	0	
P-L01-L		OPEN	100	100	100	100	0	
P-L01-R		OPEN	100	100	100	100	0	
P-SC1D1N2		OPEN	100	100	100	100	0	
P-LIN4-LP		OPEN	100	100	100	100	0	
P-LIN4-RP		OPEN	100	100	100	100	0	
P-Y2		OPEN	100	100	100	100	0	

				PIN-NAME	JPN	US	PAL	PAL_C1	
P0RT00	P-P-PORT00	**	PORT00	CH0DATA	1	PD	H01D1N0	1	PD
P0RT01	P-P-PORT01	**	PORT01		0	PD	H01D1N1	1	PD
P0RT02	P-P-PORT02	**	PORT02		0	PD	H01D1N2	1	PD
P0RT03	P-P-PORT03	FE-FWR2-ON	PORT03		0	PD	H01D1N3	1	PD
P0RT04	P-P-PORT04	FE-FWR3-ON	PORT04		0	PD	H01D1N4	1	PD
P0RT05	P-P-PORT05	FE-FWR5-ON	PORT05		0	PD	H01D1N6	1	PD
P0RT06	P-P-PORT06	REC_LED-ON	PORT06		0	PD	H01D1N6	1	PD
P0RT07	P-P-PORT07	ODU-ON	PORT07		0	PD	H01D1N7	1	PD
P0RT10	P-P-PORT10	**	PORT10	CH0CLK	1	PD	H01BCLN1	1	PD
P0RT11	P-P-PORT11	**	PORT11	CH0VAL	1	PD	H01VALIN	1	PD
P0RT12	P-P-PORT12	**	PORT12	CH0PWCN	1	PD	H01PWCIN	1	PD
P0RT13	P-P-PORT13	1PD_CP_XRST	Common	PORT13	0	PD	PORT13	0	PD
P0RT14	P-P-PORT14	**	PORT14	TC0N6	1	PD	TC0N6	1	PD
P0RT15	P-P-PORT15	3D_ON	PORT15		0	PD	PORT15	0	PD
P0RT16	P-P-PORT16	PANEL_TEST-ON	PORT16		0	PD	PORT16	0	PD
P0RT17	P-P-PORT17	**	PORT17		0	PD	PORT17	0	PD
P0RT20	P-P-PORT20	LCD_EEP_WP	PORT20		0	PD	PORT20	0	PD
P0RT21	P-P-PORT21	AMP_XRST	Common	PORT21	0	PD	PORT21	0	PD
P0RT22	P-P-PORT22	LOGGED-ON	Common	PORT22	0	PD	PORT22	0	PD
P0RT23	P-P-PORT23	AUDIO-OUT-OFF	Common	PORT23	0	PD	PORT23	0	PD
P0RT24	P-P-PORT24	USB1V8US	Common	USB1V8US	0	PD	USB1V8US	0	PD
P0RT25	P-P-PORT25	**	Common	USB200	0	PD	USB200	0	PD
P0RT26	P-P-PORT26	**	Common	ASB0U1	1	PD	ASB0U1	1	PD
P0RT27	P-P-PORT27	**	Common	E0A1	1	PD	PC0A0	1	PD
P0RT28	P-P-PORT28	**	Common	E0A2	1	PD	PC0A0	1	PD
P0RT29	P-P-PORT29	**	Common	E0A3	1	PD	PC0A0	1	PD
P0RT30	P-P-PORT30	**	Common	E0A4	1	PD	PC0A3	1	PD
P0RT32	P-P-PORT32	**	Common	E0A5	1	PD	PC0A4	1	PD
P0RT33	P-P-PORT33	**	Common	E0A6	1	PD	PC0A5	1	PD
P0RT34	P-P-PORT34	**	Common	TC0N6	1	PD	TC0N6	1	PD
P0RT35	P-P-PORT35	**	Common	TC0N7	1	PD	TC0N7	1	PD
P0RT36	P-P-PORT36	**	Common	TC0M7	1	PD	TC0M7	1	PD
P0RT37	P-P-PORT37	**	Common	FWNA	1	PD	FWNA	1	PD
P0RT57	P-P-S0DA1T	**	Common	S0DA1T	1	PD	S0DA1T	1	PD
P0RT58	P-P-S0DA1T2	**	Common	S0DA1T2	1	PD	S0DA1T2	1	PD
P0RT59	P-P-S0DA1T3	**	Common	S0DA1T3	1	PD	S0DA1T3	1	PD
P0RT62	P-P-S0CD	**	Common	S0CD	1	PD	S0CD	1	PD
P0RT63	P-P-S0WP	**	Common	S0WP	1	PD	S0WP	1	PD
P0RT64	P-P-S0VCLC	HUB_XRST	Common	S0VCLC	0	PD	PORT64	0	PD
P0RT65	P-P-USB0V8	**	Common	USB0V8US	0	PD	USB0V8US	0	PD
P0RT66	P-P-USB00D	**	Common	USB00D	0	PD	USB00D	0	PD
P0RT67	P-P-USB1V8US	**	Common	USB1V8US	0	PD	USB1V8US	0	PD
P0RT70	P-P-USB100	**	Common	USB100	0	PD	USB100	0	PD
P0RT71	P-P-H0SD0T3	**	Common	H0SD0T3	0	PD	M013	0	PD
P0RT72	P-P-H0SD0T2	**	Common	H0SD0T2	0	PD	M012	0	PD
P0RT73	P-P-H0SD0T1	COMP_DET	Common	H0SD0T1	0	PD	M013	0	PD
P0RT74	P-P-H0SD0T0	**	Common	H0SD0T0	0	PD	M010	0	PD
P0RT75	P-P-PC0D2	**	Common	PC0D2	0	PD	PC0D2	0	PD
P0RT76	P-P-PC0D1	**	Common	PC0D1	0	PD	PC0D1	0	PD
P0RT77	P-P-PC0D0	**	Common	PC0D0	0	PD	PC0D0	0	PD
P0RT78	P-P-E0A0	**	Common	E0A0	0	PD	PC0A0	0	PD
P0RT81	P-P-E0A10	**	Common	E0A10	0	PD	PC0A	0	PD
P0RT82	P-P-E0A11	**	Common	E0A11	0	PD	PC0A10	1	PD
P0RT83	P-P-E0A12	**	Common	E0A12	0	PD	PC0A11	1	PD
P0RT84	P-P-E0A13	**	Common	E0A13	0	PD	PC0A12	1	PD
P0RT85	P-P-E0A14	**	Common	E0A14	0	PD	PC0A13	1	PD
P0RT86	P-P-E0A15	**	Common	E0A15	0	PD	PC0A14	1	PD
P0RT87	P-P-E0CLK	**	Common	E0CLK	0	PD	PORT87	0	PD
P0RT90	P-P-PC0E	HP-DET	Common	PC0E	0	PD	PC0E	0	PD
P0RT91	P-P-PC0E	V1-DET	Common	PC0E	0	PD	PC0E	0	PD
P0RT92	P-P-PC0A1T	**	Common	PC0A1T	0	PD	PC0A1T	0	PD
P0RT93	P-P-PC10NR	Y2-DET	Common	PC10NR	0	PD	PC10NR	0	PD
P0RT94	P-P-PC10RD	D-DET	Common	PC10RD	0	PD	PC10RD	0	PD
P0RT95	P-P-H0SD01N0	**	Common	H0SD01N0	1	PD	H0SD01N0	1	PD
P0RT96	P-P-H0SD01N1	**	Common	H0SD01N1	1	PD	H0SD01N1	1	PD
P0RT97	P-P-H0SD01N2	**	Common	H0SD01N2	1	PD	H0SD01N2	1	PD
P0RT100	P-P-H0SD01N3	**	Common	H0SD01N3	1	PD	H0SD01N3	1	PD
P0RT101	P-P-H0SD01N4	**	Common	H0SD01N4	1	PD	H0SD01N4	1	PD
P0RT102	P-P-H0SD0U7T	**	Common	H0SD0U7T	1	PD	H0SD0U7T	1	PD
P0RT103	P-P-H0SD0U4T	**	Common	H0SD0U4T	1	PD	H0SD0U4T	1	PD
P0RT104	P-P-H0SD01N7	**	Common	H0SD01N7	1	PD	H0SD01N7	1	PD
P0RT105	P-P-H0BCLN1N	**	Common	H0BCLN1N	1	PD	H0BCLN1N	1	PD
P0RT106	P-P-H0BVALIN	**	Common	H0BVALIN	1	PD	H0BVALIN	1	PD
P0RT107	P-P-H0BVCNIN	**	Common	H0BVCNIN	1	PD	H0BVCNIN	1	PD
P0RT110	P-P-PCV0B1	CI-POWER-ON	Common	PCV0B1	1	PD	PORT110	1	PD
P0RT111	P-P-H0SD0U1T	**	Common	H0SD0U1T	1	PD	H0SD0U1T	1	PD
P0RT112	P-P-P0R0G	**	Common	P0R0G	1	PD	PORT112	0	PD
P0RT113	P-P-H0B01B0T	**	Common	H0B01B0T	1	PD	PORT113	0	PD
P0RT114	P-P-H0SD0U6T	**	Common	H0SD0U6T	1	PD	H0SD0U6T	1	PD
P0RT115	P-P-H0SD0U5T	**	Common	H0SD0U5T	1	PD	H0SD0U5T	1	PD
P0RT116	P-P-H0SD01N6	**	Common	H0SD01N6	1	PD	H0SD01N6	1	PD
P0RT117	P-P-H0SD01N5	**	Common	H0SD01N5	1	PD	H0SD01N5	1	PD
P0RT118	P-P-H0BVALOUT	**	Common	H0BVALOUT	1	PD	H0BVALOUT	1	PD
P0RT119	P-P-H0BVALOUT	**	Common	H0BVALOUT	1	PD	H0BVALOUT	1	PD
P0RT122	P-P-H0BVCNOUT	**	Common	H0BVCNOUT	1	PD	H0BVCNOUT	1	PD
P0RT123	P-P-AGC1	**	Common	AGC1	1	PD	AGC1	1	PD
P0RT124	P-P-AG0R	FE-OSC-ENB	Common	AG0R	1	PD	PORT124	0	PD
P0RT125	P-P-AG0R	FE-DAT-XRST	Common	AG0R	1	PD	PORT125	0	PD
P0RT126	P-P-IECOUT	**	Common	IECOUT	1	PD	IECOUT	1	PD
P0RT127	P-P-ASMK	**	Common	ASMK	1	PD	ASMK	1	PD
P0RT130	P-P-ABCKO	**	Common	ABCKO	1	PD	ABCKO	1	PD
P0RT131	P-P-ALRCKO	**	Common	ALRCKO	1	PD	ALRCKO	1	PD
P0RT132	P-P-ASB0U0T	**	Common	ASB0U0T	1	PD	ASB0U0T	1	PD
P0RT133	P-P-E0A7	**	Common	E0A7	1	PD	PC0A6	1	PD
P0RT134	P-P-ARCOU7	**	Common	ARCOU7	1	PD	ARCOU7	1	PD
P0RT436	P-P-TC0N0	**	Common	TC0N0	1	PD	TC0N0	1	PD
P0RT437	P-P-TC0N1	**	Common	TC0N1	1	PD	TC0N1	1	PD
P0RT438	P-P-TC0N2	**	Common	TC0N2	1	PD	TC0N2	1	PD
P0RT439	P-P-SB00	**	Common	SB00	1	PD	SB00	1	PD
P0RT440	P-P-SB01	**	Common	SB01	1	PD	SB01	1	PD
P0RT442	P-P-XRST	MAIN-FAN-ON-LED	Common	XRST	1	PD	PORT442	0	PD
P0RT143	P-P-MNCLK	EEPROM-UP	Common	MNCLK	1	PD	PORT143	1	PD
P0RT144	P-P-MNCCD	**	Common	MNCCD	1	PD	PORT144	1	PD
P0RT145	P-P-TC0N3	**	Common	TC0N3	1	PD	TC0N3	1	PD
P0RT146	P-P-TC0N4	**	Common	TC0N4	1	PD	TC0N4	1	PD
P0RT147	P-P-TC0N5	**	Common	TC0N5	1	PD	TC0N5	1	PD
X1R00	P-P-PORT20	LCD_EEP_WP	Common	PORT20	0	PD	PORT20	0	PD
X1R01	P-P-X1R02	POWER-DET	Common	X1R01	1	PD	X1R01	1	PD
X1R02	P-P-X1R03	1R-LED-80S	Common	X1R02	1	PD	X1R02	1	PD
X1R03	P-P-X1R04	FE-1R0	Common	X1R03	1	PD	X1R03	1	PD
X1R04	P-P-X1R05	FAN-MAX	Common	X1R04	1	PD	X1R04	1	PD
X1R05	P-P-X1R06	FAN-80S	Common	X1R05	1	PD	X1R05	1	PD
X1R06	P-P-X1R07	AMP_DET / 80RAM	Common	X1R06	1	PD	X1R06	1	PD
X1R07	P-P-X1R08	CI-0CP	Common	X1R07	1	PD	X1R07	1	PD
X1R08	P-P-X1R09	ODU-DET	Common	X1R08	1	PD	X1R08	1	PD
X1R09	P-P-X1R10	FRG-DONE	Common	X1R09	1	PD	X1R09	1	PD
X1R10	P-P-X1R01	**	Common	X1R10	1	PD	X1R10	1	PD
X1R011	P-P-X1R011	**	Common	X1R011	1	PD	X1R011	1	PD
X1R012	P-P-X1R012	AUDIO-OUT-OFF	Common	X1R012	1	PD	PCD01	1	PD
X1R014	P-P-X1R014	LD-ON-IR-DCDC-ON	Common	X1R014	1	PD	X1R014	1	PD
X1R015	P-P-PCREADY	**	Common	PCREADY	1	PD	PCREADY	1	PD

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⚠ A-BOARD TNP0993 (8/20)



The diagram illustrates the PEAKS-LD4 system architecture, showing the main board and two sub-boards (PEAKS-LD4 and PEAKS-LD4) connected via a ribbon cable. The main board includes components like R4051, R4052, R4053, R4054, R4055, and R4056, and is connected to various input/output pins. The sub-boards are connected to the main board via a ribbon cable. The diagram also shows a video output section and a power supply section.

PEAKS-LD4 (Main Board) Connections:

- Inputs:** P-T3AN, P-T3AP, P-T3BN, P-T3BP, P-T3CN, P-T3CP, P-T3CLKN, P-T3CLKP, P-T3DN, P-T3DP, P-T3EN, P-T3EP, P-T4AN, P-T4AP, P-T1AN, P-T1AP, P-T1BN, P-T1BP, P-T1CN, P-T1CP, P-T1CLKN, P-T1CLKP, P-T1DN, P-T1DP, P-T1EN, P-T1EP, P-T2AN, P-T2AP.
- Outputs:** TA1N-CN, TA1P-CN, TB1N-CN, TB1P-CN, TC1N-CN, TC1P-CN, TC1K1N-CN, TC1K1P-CN, TD1N-CN, TD1P-CN, TE1N-CN, TE1P-CN, TA2N-CN, TA2P-CN, TB2N-CN, TB2P-CN, TC2N-CN, TC2P-CN, TC2K2N-CN, TC2K2P-CN, TD2N-CN, TD2P-CN, TE2N-CN, TE2P-CN.

PEAKS-LD4 (Sub-board) Connections:

- Inputs:** LPI, P-TCON0, POL, P-TCON0, LD, P-TCON1, TC0N0, P-PORT1, P-TCON0, POL, LPI, P-TCON0, CPU, P-TCON0, GATA1, P-TCON1, GATA2, P-TCON2.
- Outputs:** LCD_LEP_WP, P-PORT2.

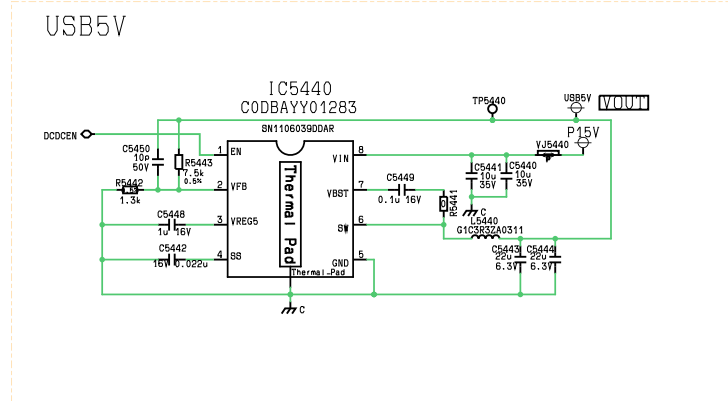
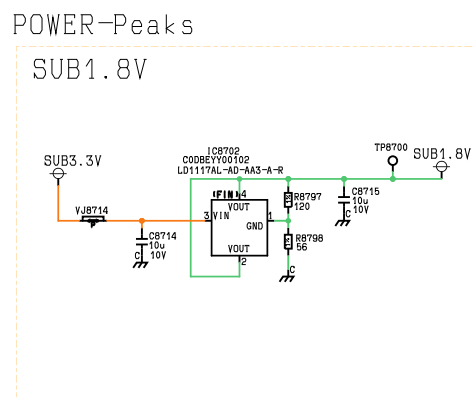
Video output:

- Inputs:** P-T1AN, P-T1AP, P-T1BN, P-T1BP, P-T1CN, P-T1CP, P-T1CLKN, P-T1CLKP, P-T1DN, P-T1DP, P-T1EN, P-T1EP, P-T2AN, P-T2AP.
- Outputs:** TA2N-CN, TA2P-CN, TB2N-CN, TB2P-CN, TC2N-CN, TC2P-CN, TC2K2N-CN, TC2K2P-CN, TD2N-CN, TD2P-CN, TE2N-CN, TE2P-CN.

Power supply:

- Inputs:** TCON2.5V, R4076, SUB3.3V.

POWER-Model

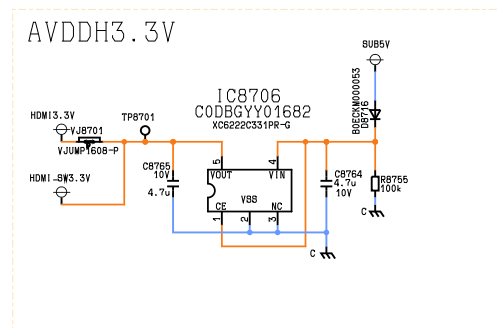
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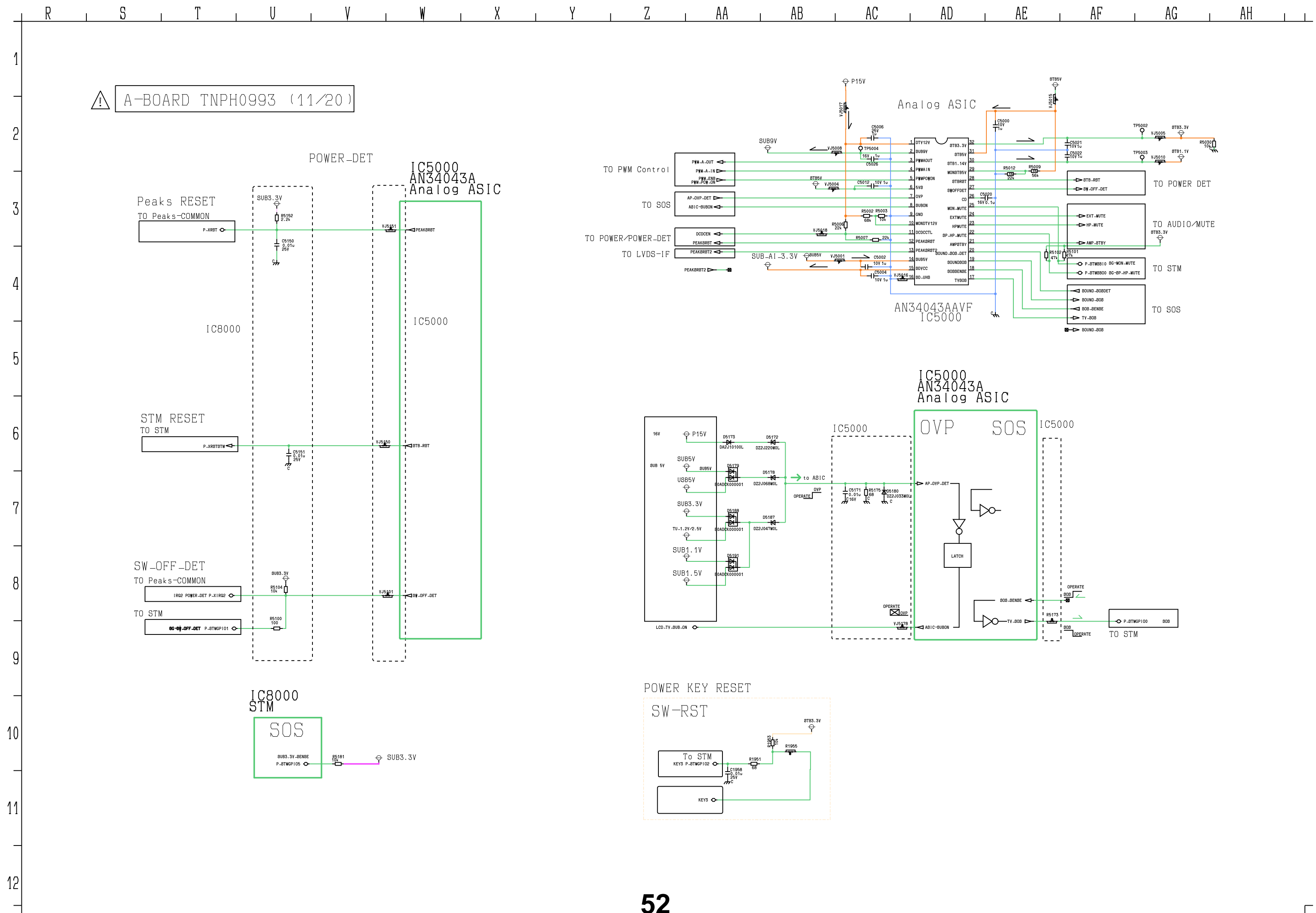
The schematic diagram illustrates the power management section for the TI-84 Plus CE II, featuring two sub-circuits: SUB1.1V and SUB1.5V.

Sub-circuit SUB1.1V: This circuit uses the IC8100 (Codbayy01283) LDO regulator. The input is connected to the DCDCIN pin via a 1.05k resistor (RB101). The output is connected to the VOUT pin. The regulator's thermal pad is connected to ground. The circuit includes a 10uF capacitor (CB103) and a 25V capacitor (CB105).

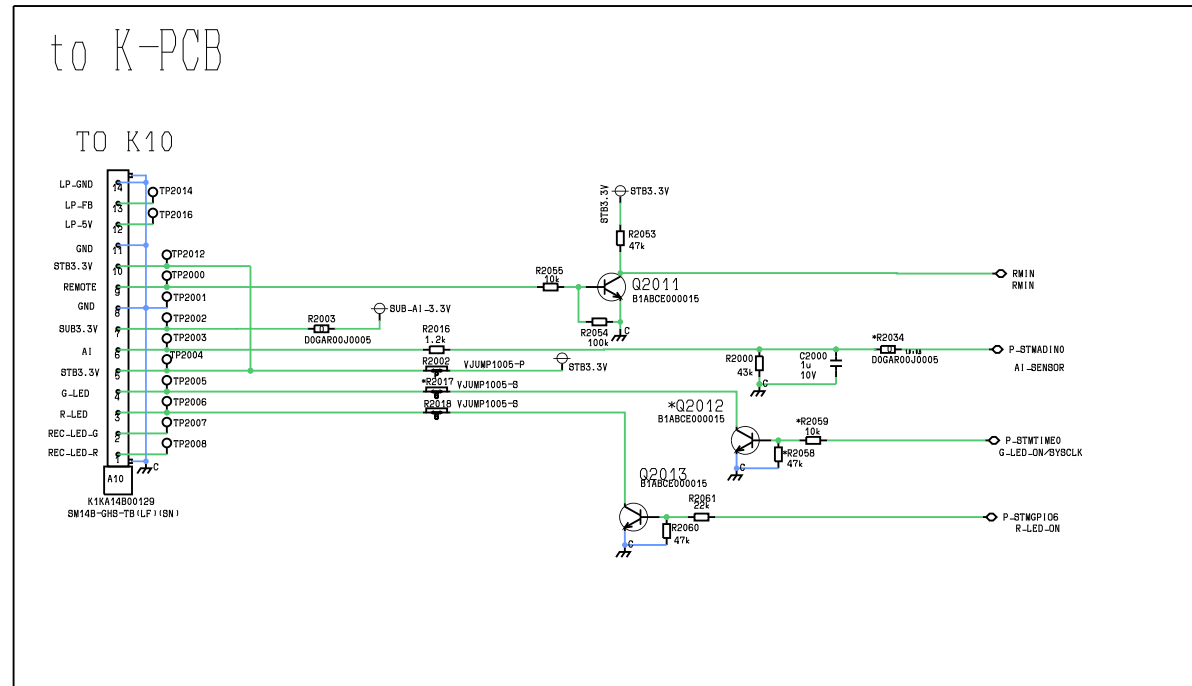
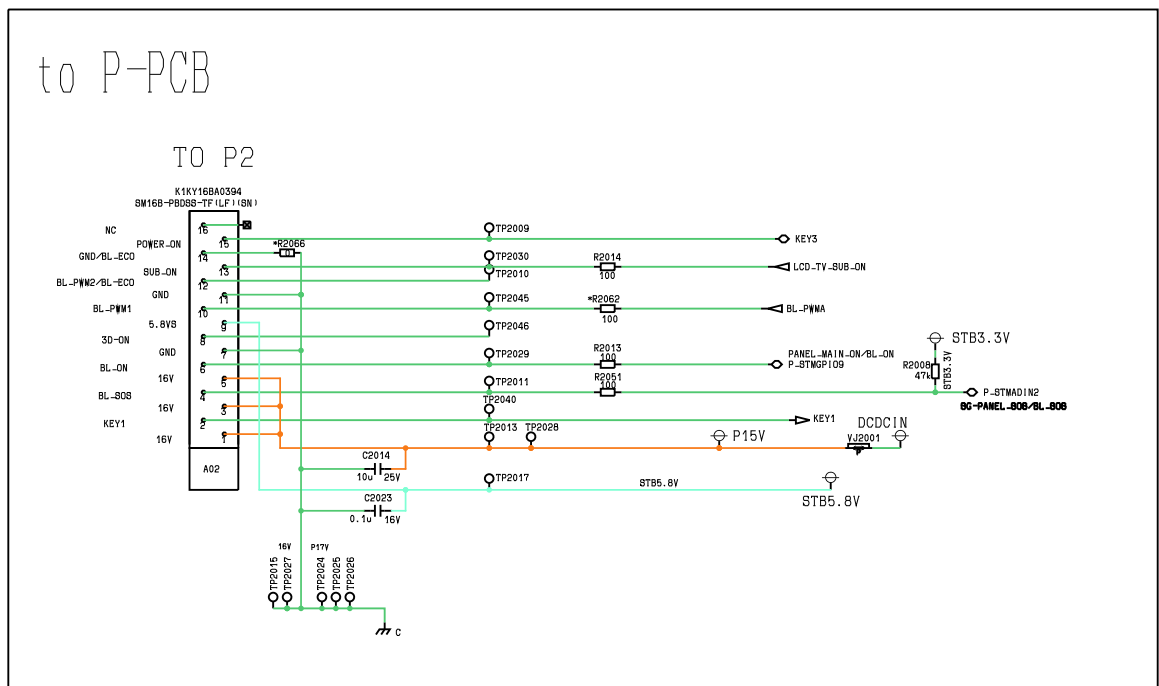
Sub-circuit SUB1.5V: This circuit uses the IC8101 (Codbayy01285) LDO regulator. The input is connected to the DCDCIN pin via a 1.96k resistor (RB112). The output is connected to the VOUT pin. The regulator's thermal pad is connected to ground. The circuit includes a 10uF capacitor (CB113) and a 25V capacitor (CB115).

The diagram also shows the connection to the VOUT pin and the VOUT pin.





⚠ A-BOARD TNPH0993 (12/20)



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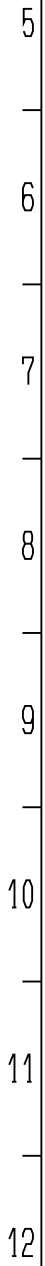
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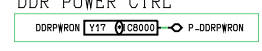
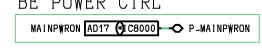
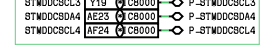
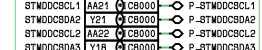
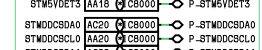
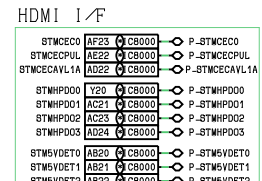
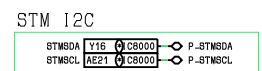
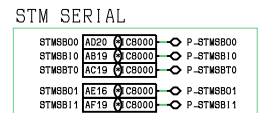
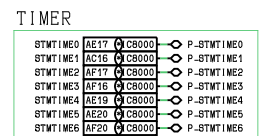
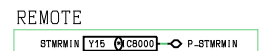
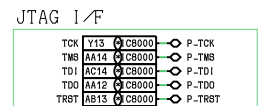
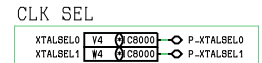
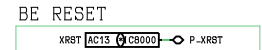
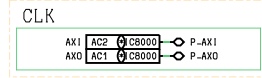


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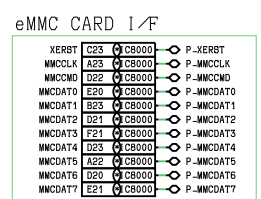
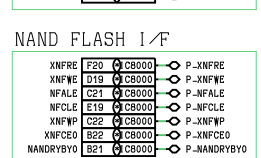
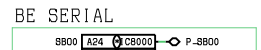
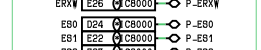
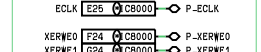
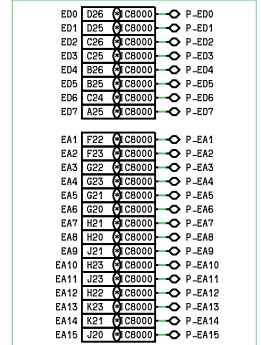


⚠ A-BOARD TNPH0993 (17/20)

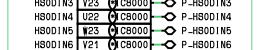
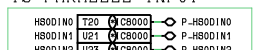
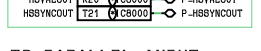
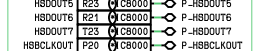
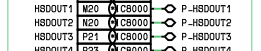
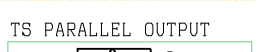
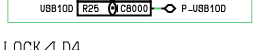
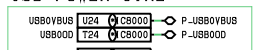
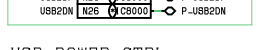
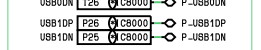
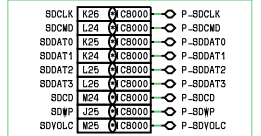
LOCK/LD4



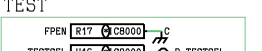
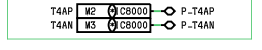
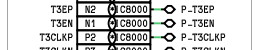
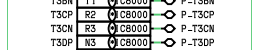
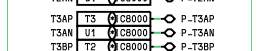
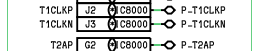
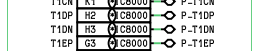
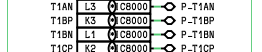
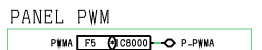
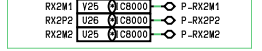
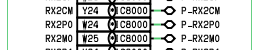
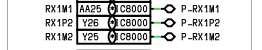
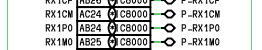
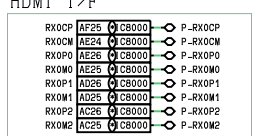
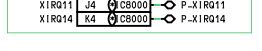
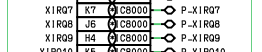
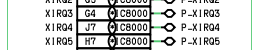
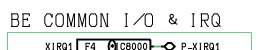
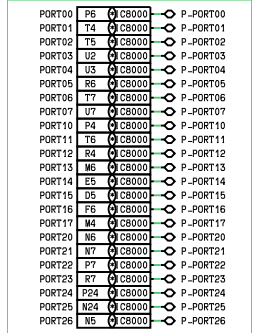
SYSTEM BUS



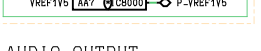
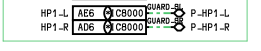
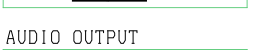
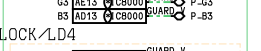
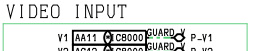
SD CARD I/F



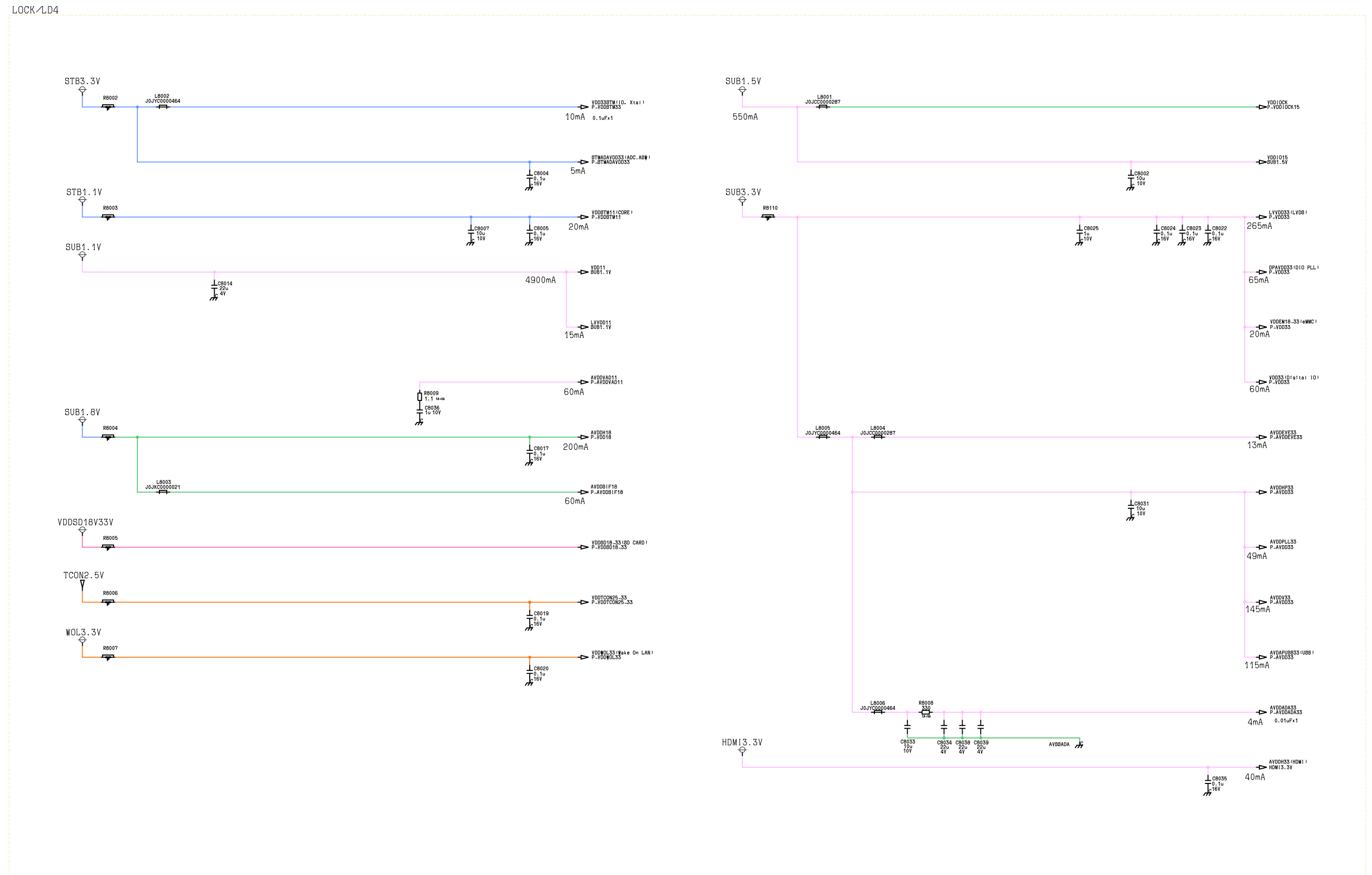
BE COMMON I/O



VIDEO (PC) INPUT



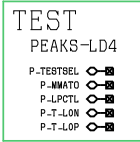
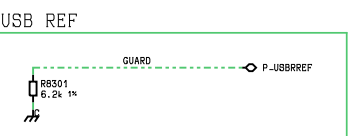
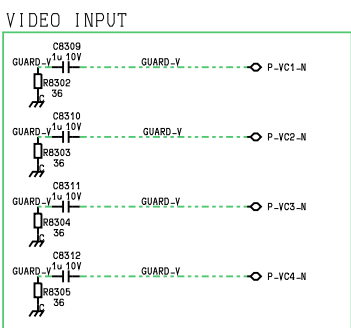
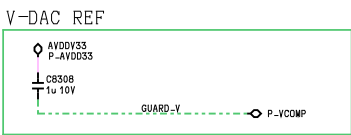
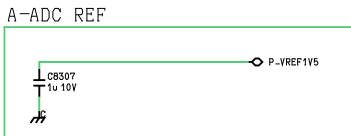
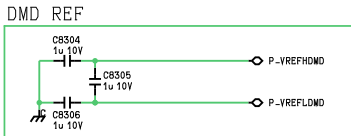
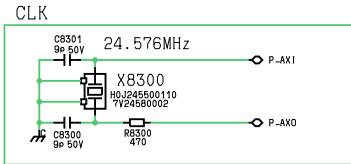
 A-BOARD TNP0993 (18/20)



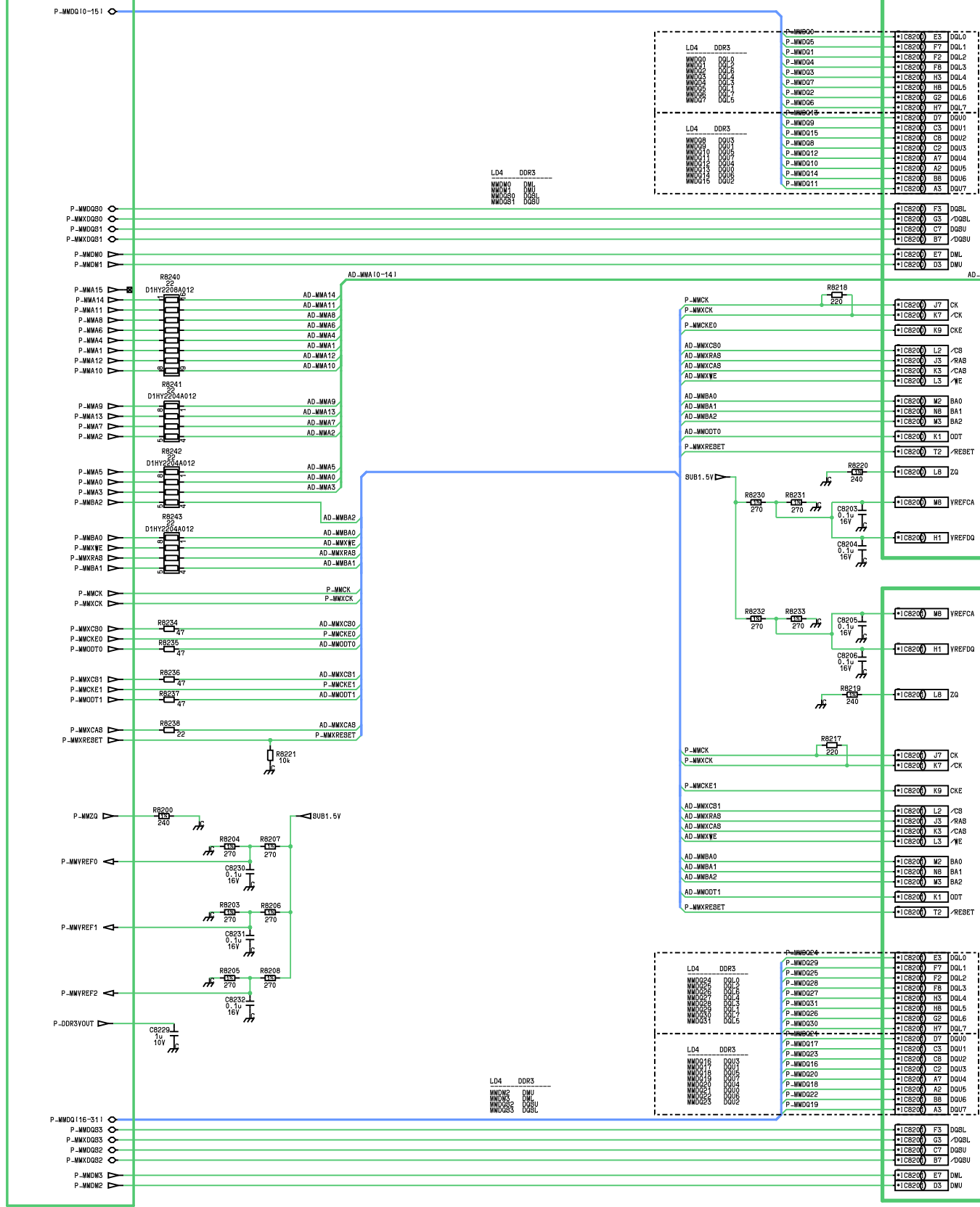
⚠ A-BOARD TNPH0993 (19/20)

LOCK/LD4

LOCK/LD4

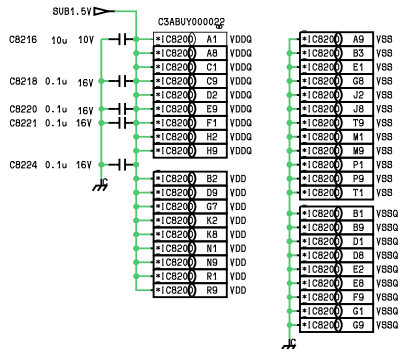


PEAKS-LD4



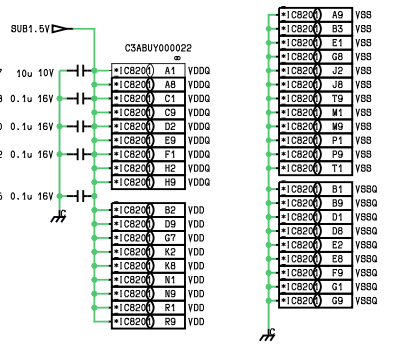
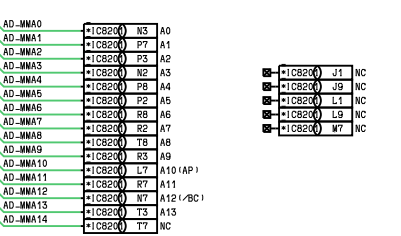
2Gbit DDR3

CH0

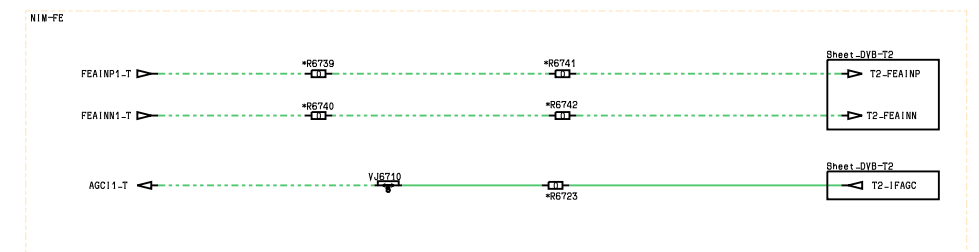
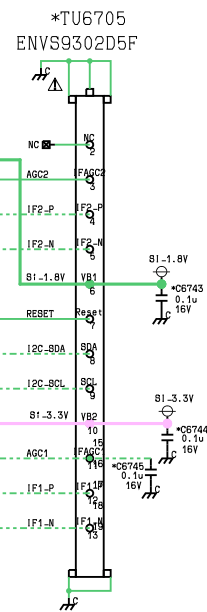


2Gbit DDR3

CH1



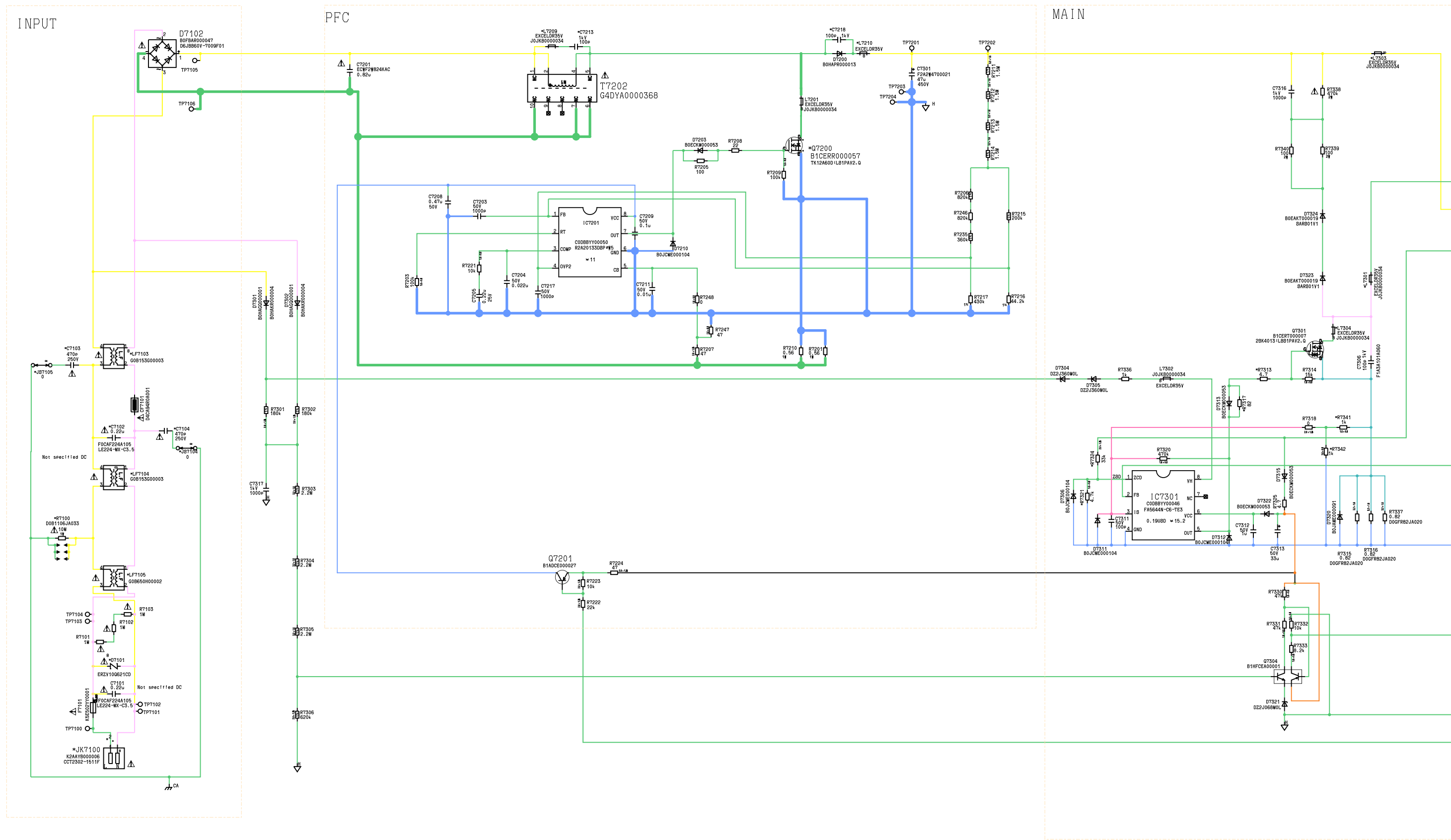
EU-FE-T2

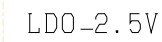


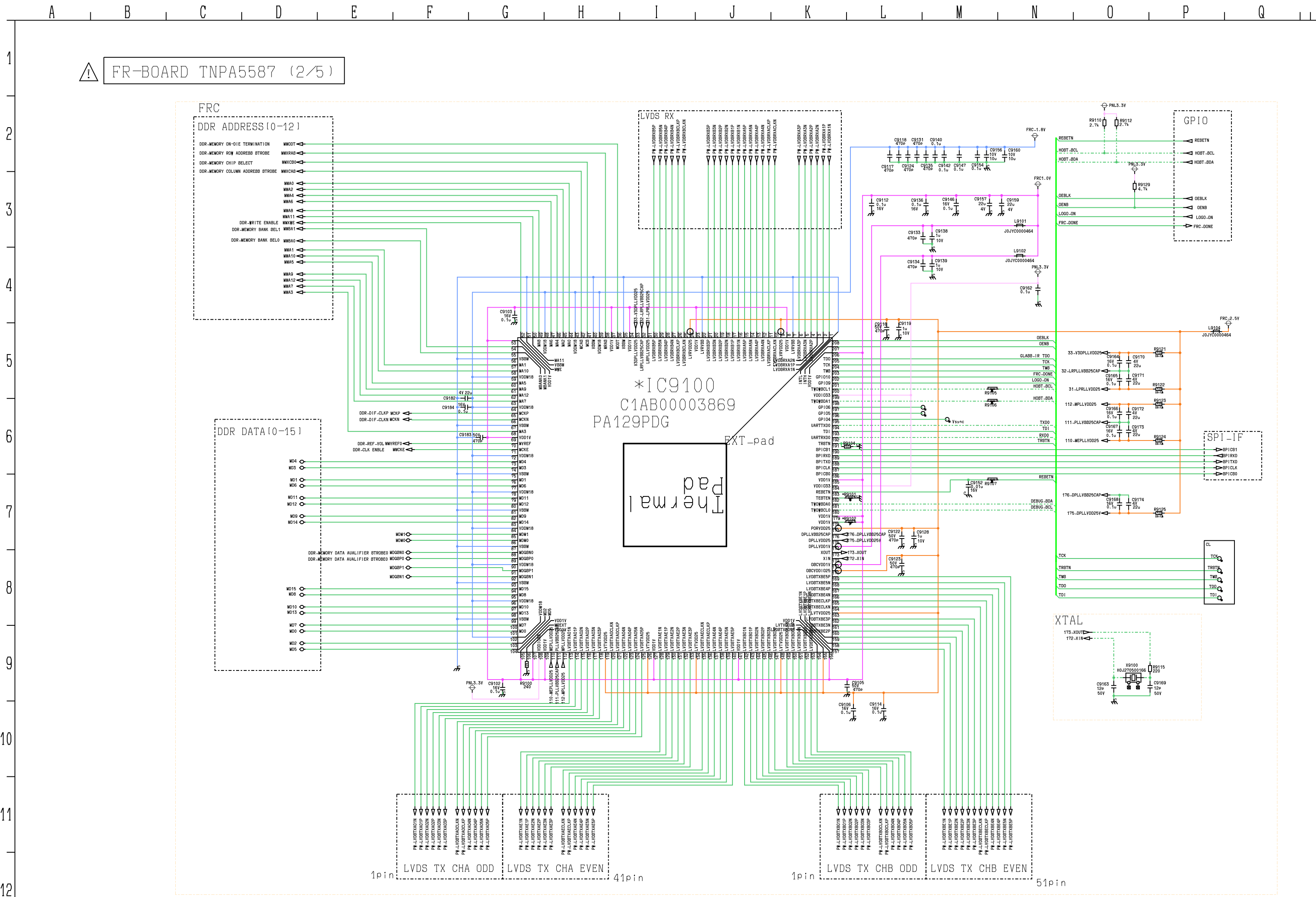
A B C D E F G H I J K L M N O P Q

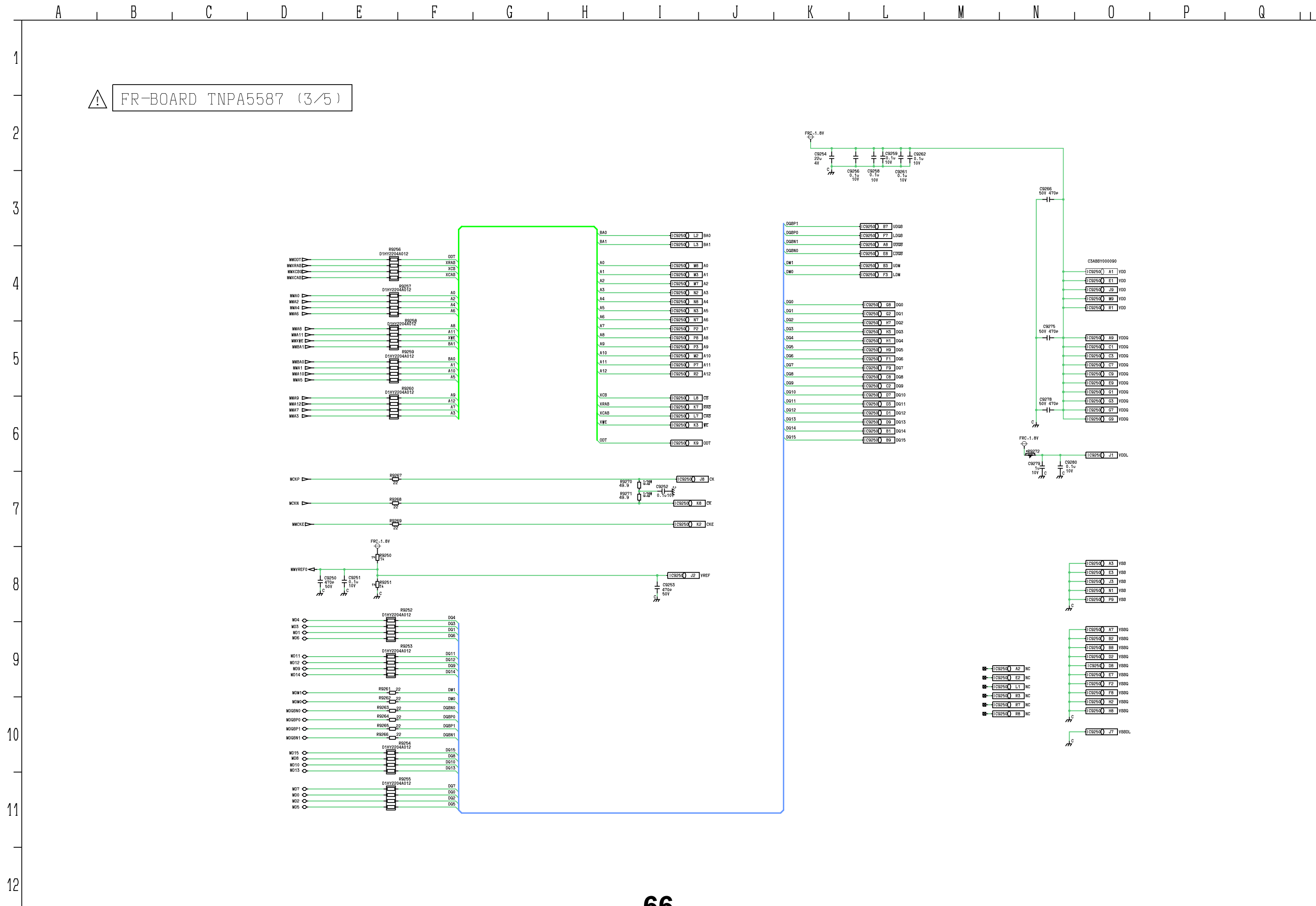
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P-BOARD TNPA5628 (1/2)







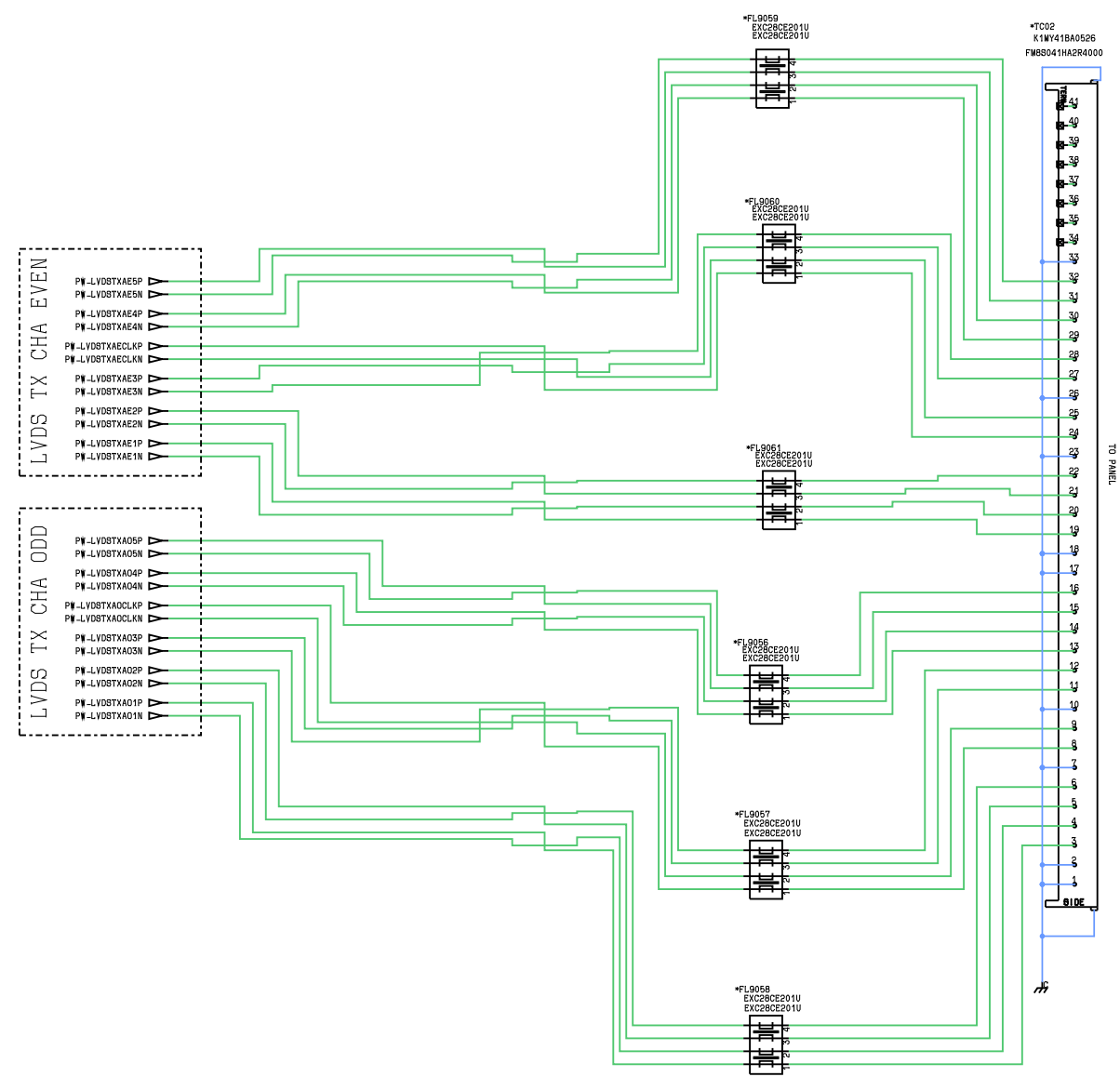


67



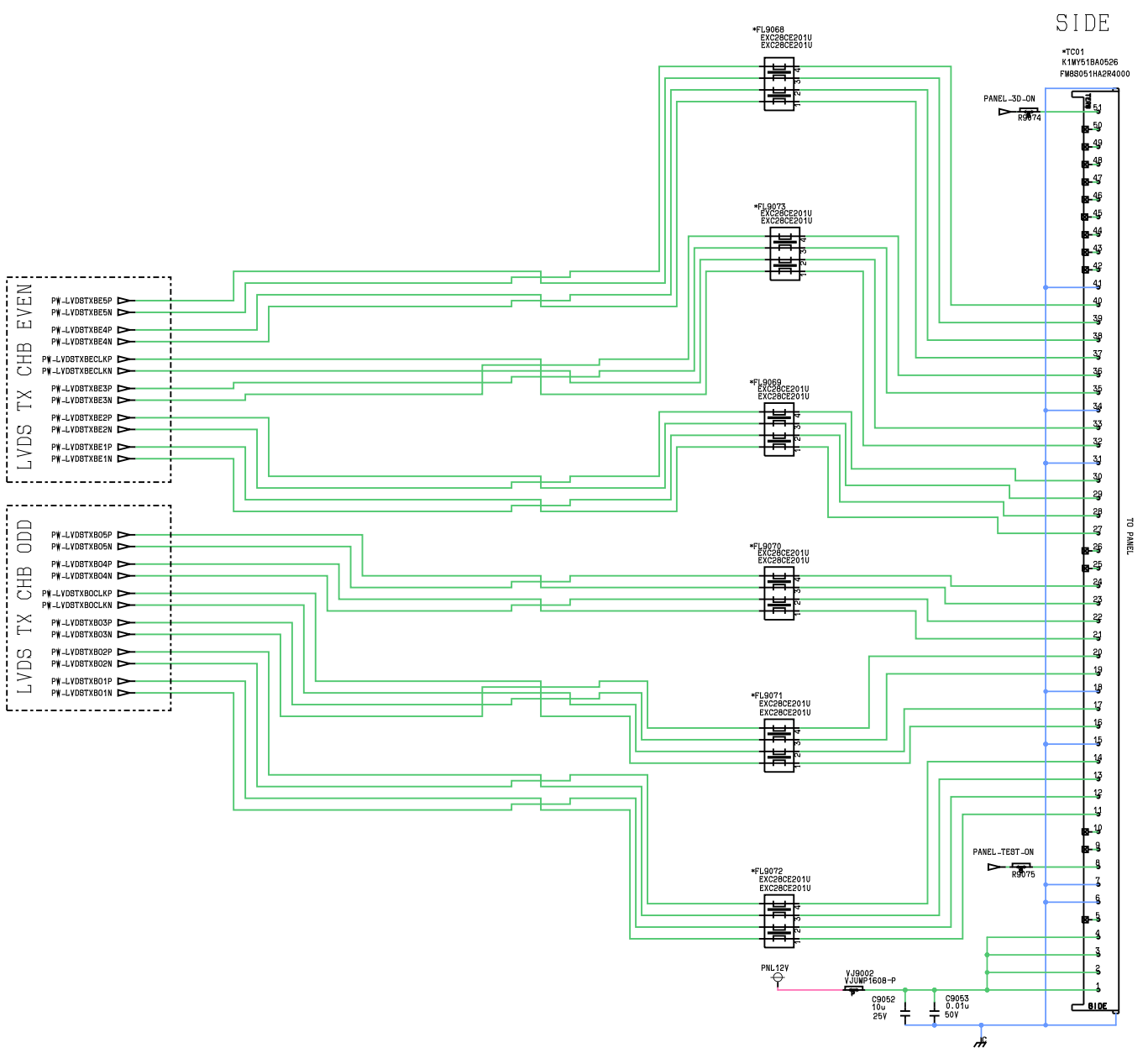
⚠ FR-BOARD TNPA5587 (5/5)

LVDS-TX -41PIN

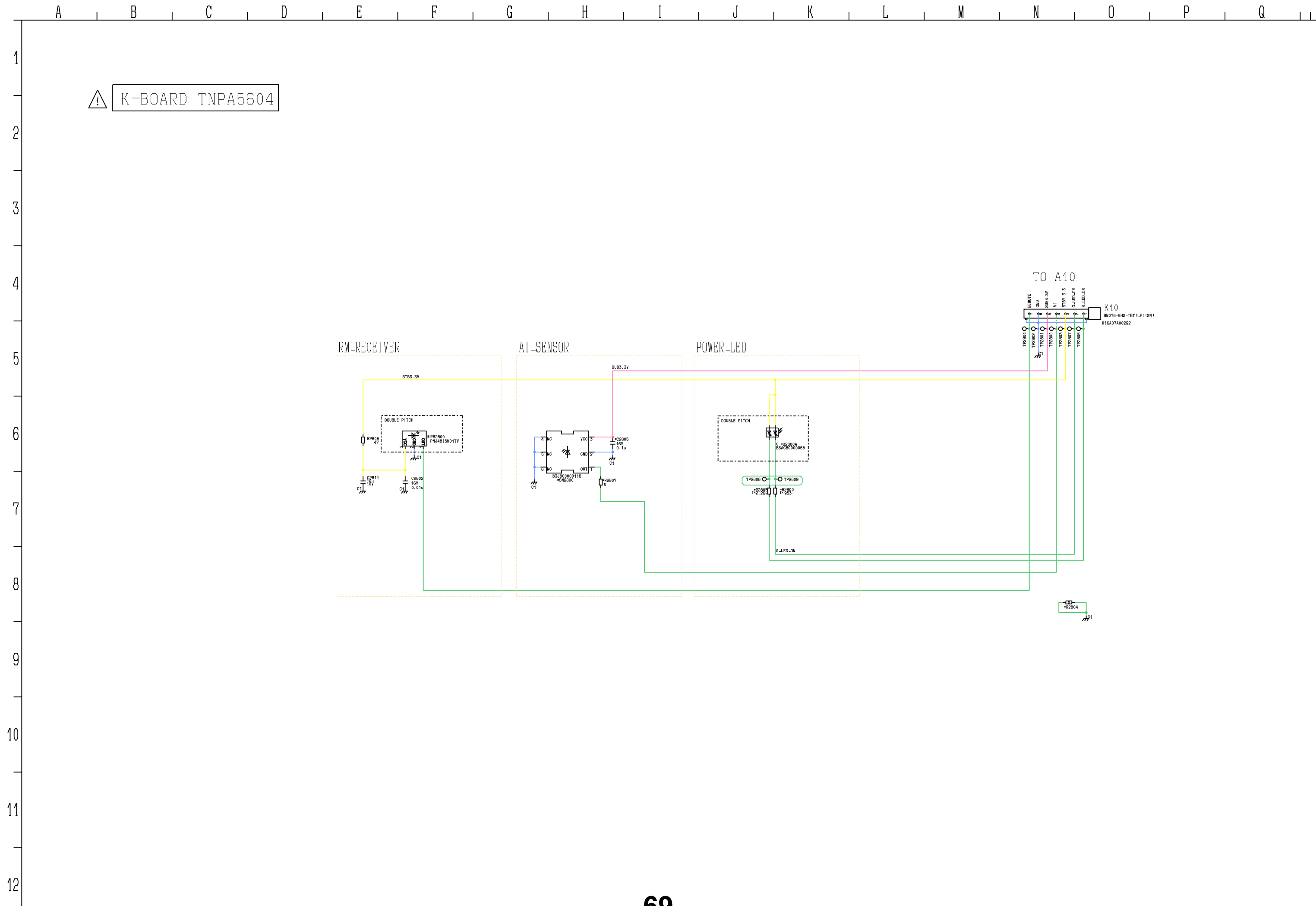


for Left (41pin)

LVDS-TX -51PIN

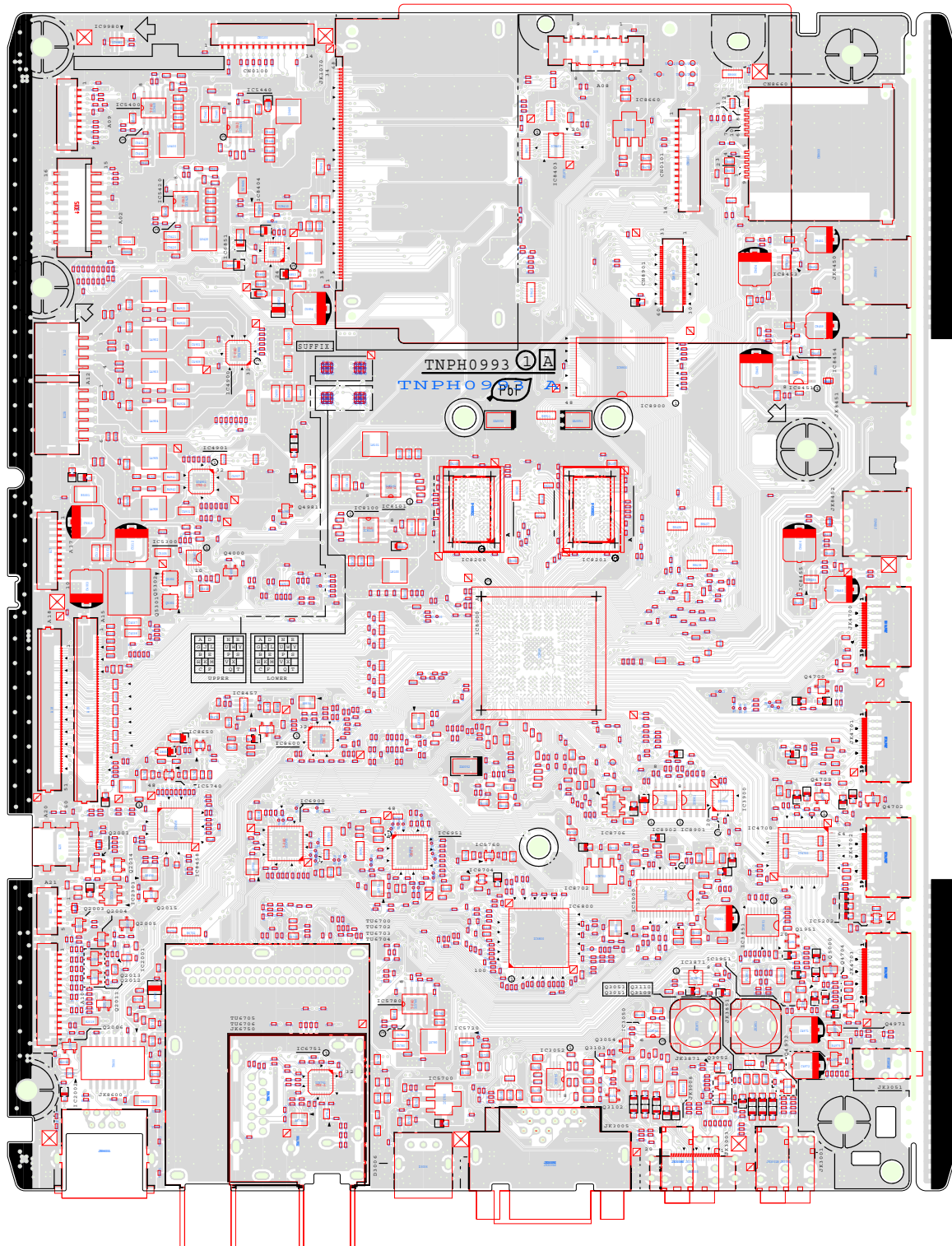


for Right (51pin)

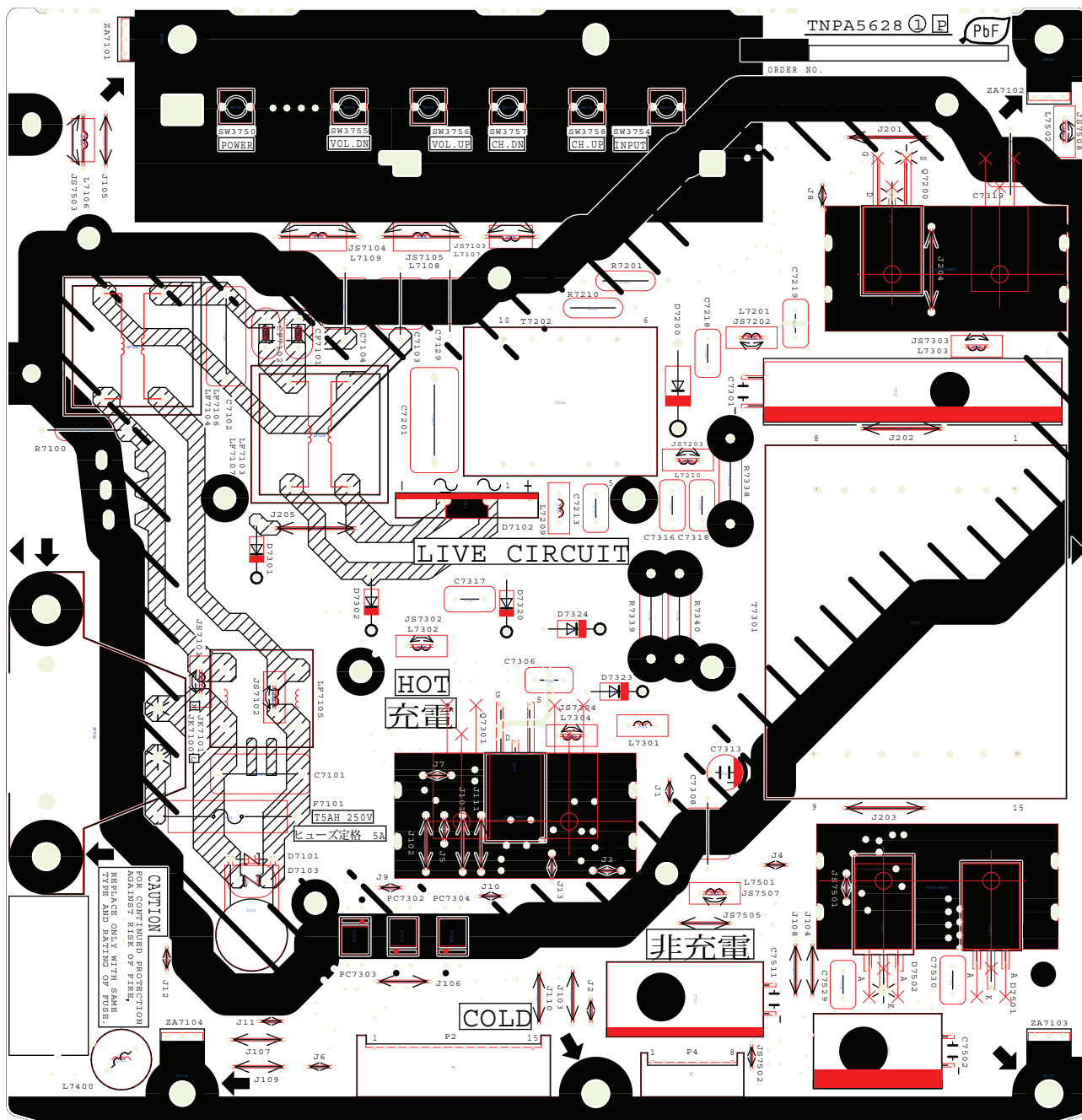


Conductor Views

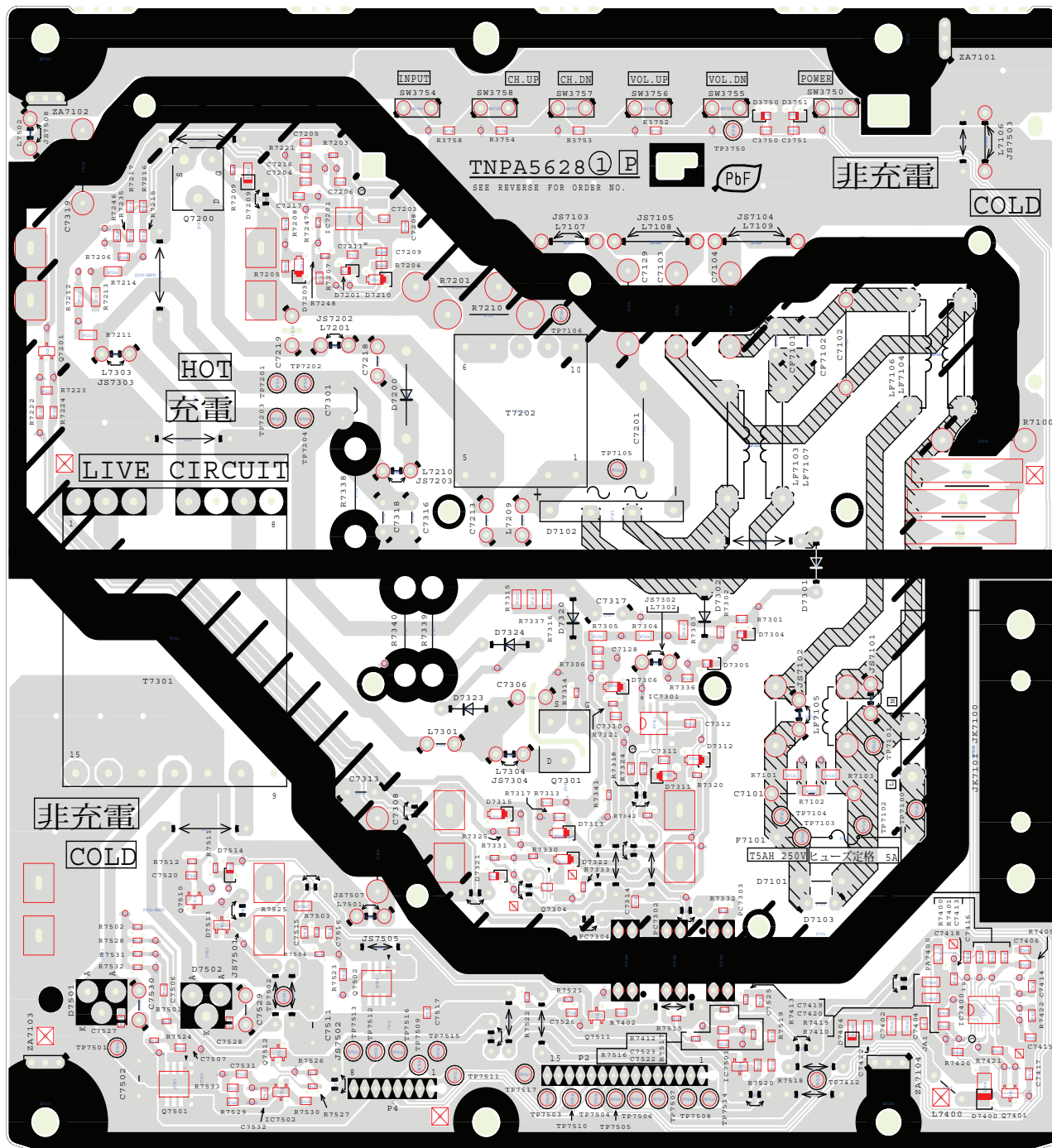
A-BOARD TNPH0993 - TOP



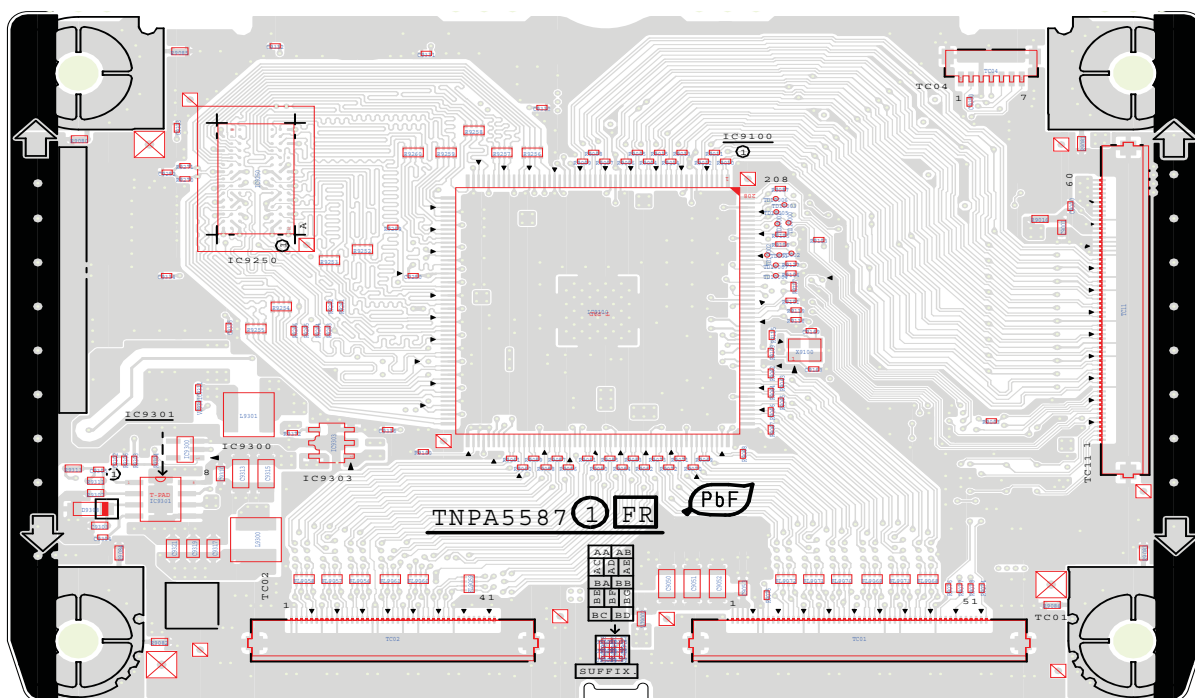
P-BOARD TNPA5628 - TOP



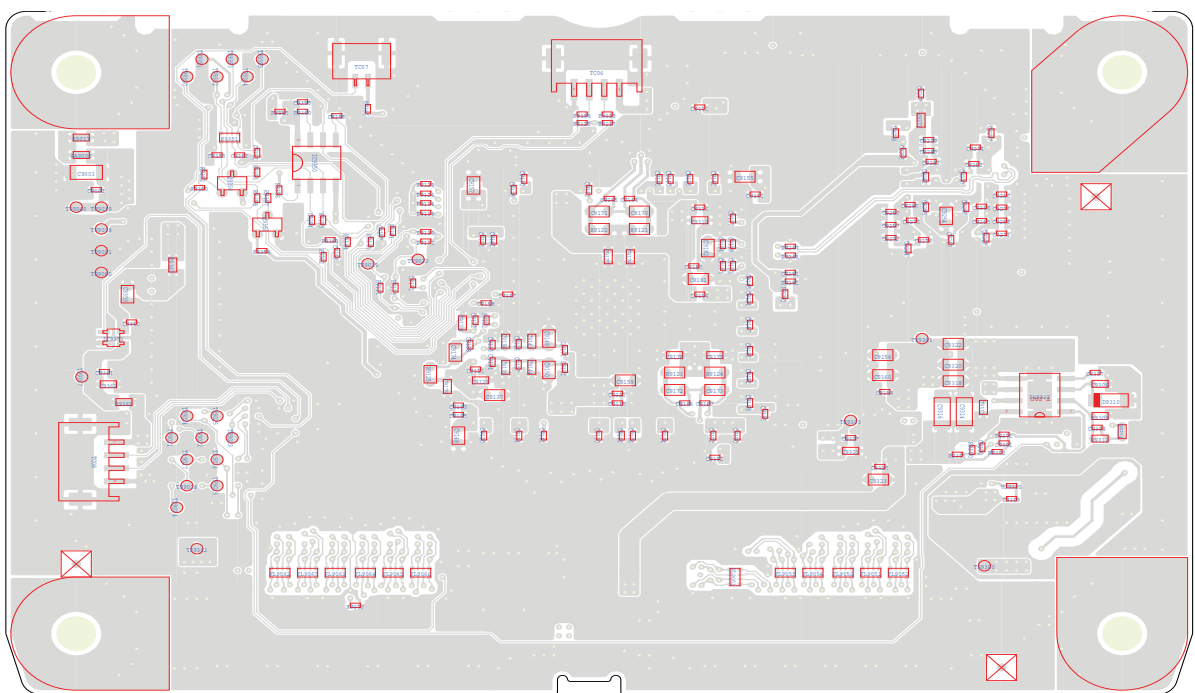
P-BOARD TNPA5628 - BOTTOM



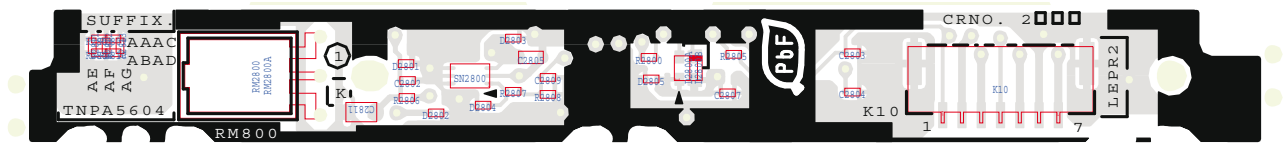
FR-BOARD TNPA5587 - TOP



FR-BOARD TNPA5587 - BOTTOM



K-BOARD TNPA5604 - TOP



K-BOARD TNPA5604 - BOTTOM

