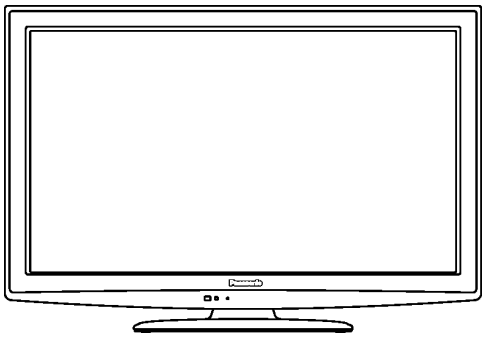
ORDER NO.MTNC100444CE
B01 Canada: B61

Service Manual

42 inch Class 1080p LCD HDTV

Model No. TC-L42D2

LA04 Chassis



⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

Panasonic®

TABLE OF CONTENTS

PAGE

1 Safety Precautions ---------- 3
1.1. General Guidelines ---------- 3
2 Warning ---------- 4
2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices ---------- 4
2.2. About lead free solder (PbF) ---------- 5
3 Service Navigation ---------- 6
3.1. Service Hint ---------- 6
3.2. Applicable signals ---------- 6
4 Specifications ---------- 7
5 Service Mode ---------- 8
5.1. How to enter into Service Mode ---------- 8
5.2. SRV-TOOL ---------- 10
5.3. Hotel mode ---------- 11
5.4. Data Copy by SD Card ---------- 12
6 Troubleshooting Guide ---------- 15
6.1. Check of the IIC bus lines ---------- 15
6.2. Power LED Blinking timing chart ---------- 16
6.3. No Power ---------- 17
7 Disassembly and Assembly Instructions ---------- 18
7.1. Pedestal ---------- 18
7.2. Rear cover ---------- 18
7.3. AC cord ---------- 18
7.4. P-Board ---------- 19
7.5. Side AV bracket ---------- 19
7.6. A-Board ---------- 20
7.7. Control panel ---------- 20
7.8. Speaker ---------- 20
7.9. Metal bracket bottom ---------- 21
7.10. TC-Board ---------- 21
7.11. Metal support ---------- 22
7.12. LCD Panel ---------- 22
7.13. V-Board ---------- 22
7.14. EMI processing ---------- 23
8 Measurements and Adjustments ---------- 27
8.1. VCOM Adjustment (Flicker Adjustment) ---------- 27
8.2. Voltage chart of A-board ---------- 28
8.3. Picture level adjustment (RF) ---------- 28
9 Block Diagram ---------- 29
9.1. Main Block Diagram ---------- 29
9.2. Block (1/3) Diagram ---------- 30
9.3. Block (2/3) Diagram ---------- 31
9.4. Block (3/3) Diagram ---------- 32
10 Wiring Connection Diagram ---------- 33
10.1. Caution statement. ---------- 33
10.2. Wiring (1) ---------- 33
10.3. Wiring (2) ---------- 34
11 Schematic Diagram ---------- 35
11.1. Schematic Diagram Notes ---------- 35
11.2. A-Board (1/13) Schematic Diagram ---------- 36
11.3. A-Board (2/13) Schematic Diagram ---------- 37
11.4. A-Board (3/13) Schematic Diagram ---------- 38
11.5. A-Board (4/13) Schematic Diagram ---------- 39
11.6. A-Board (5/13) Schematic Diagram ---------- 40
11.7. A-Board (6/13) Schematic Diagram ---------- 41
11.8. A-Board (7/13) Schematic Diagram ---------- 42
11.9. A-Board (8/13) Schematic Diagram ---------- 43
11.10. A-Board (9/13) Schematic Diagram ---------- 44

PAGE

11.11. A-Board (10/13) Schematic Diagram ---------- 45
11.12. A-Board (11/13) Schematic Diagram ---------- 46
11.13. A-Board (12/13) and V-Board Schematic Diagram ---------- 47
11.14. A-Board (13/13) Schematic Diagram ---------- 48
11.15. TC-Board (1/6) Schematic Diagram ---------- 49
11.16. TC-Board (2/6) Schematic Diagram ---------- 50
11.17. TC-Board (3/6) Schematic Diagram ---------- 51
11.18. TC-Board (4/6) Schematic Diagram ---------- 52
11.19. TC-Board (5/6) Schematic Diagram ---------- 53
11.20. TC-Board (6/6) Schematic Diagram ---------- 54
12 Printed Circuit Board ---------- 55
12.1. A-Board ---------- 55
12.2. V-Board ---------- 57
12.3. TC-Board ---------- 58
13 Exploded View and Replacement Parts List ---------- 59
13.1. Exploded View and Mechanical Replacement Parts List ---------- 59
13.2. Electrical Replacement Parts List ---------- 64

1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
5. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
6. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 100 Mohm and over.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

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

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

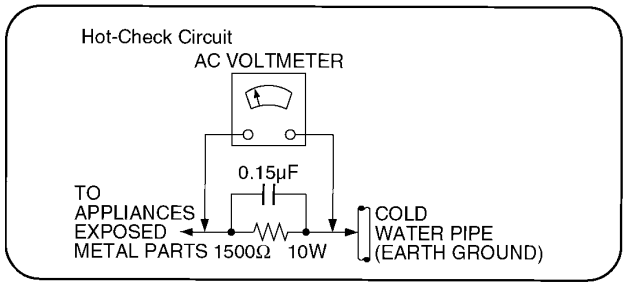


Figure 1

2 Warning

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

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

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

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

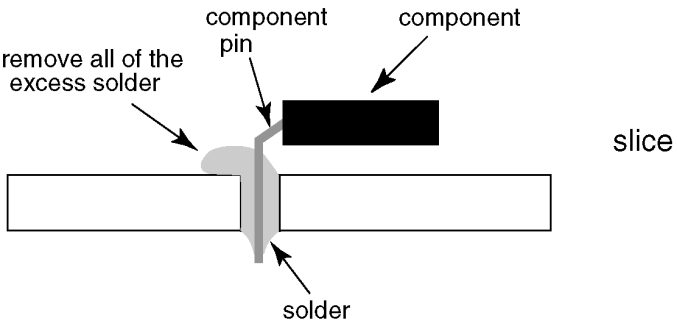
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although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

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

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

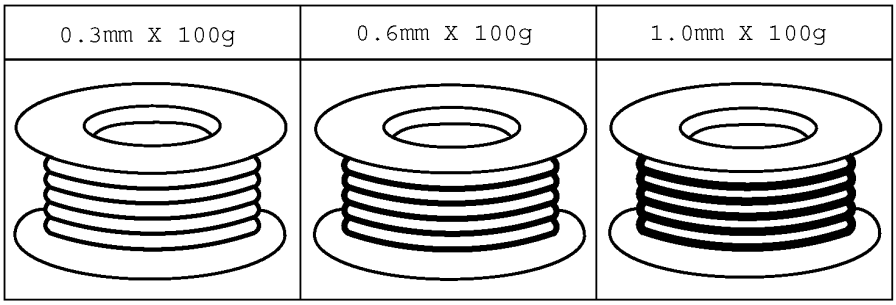
Caution

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



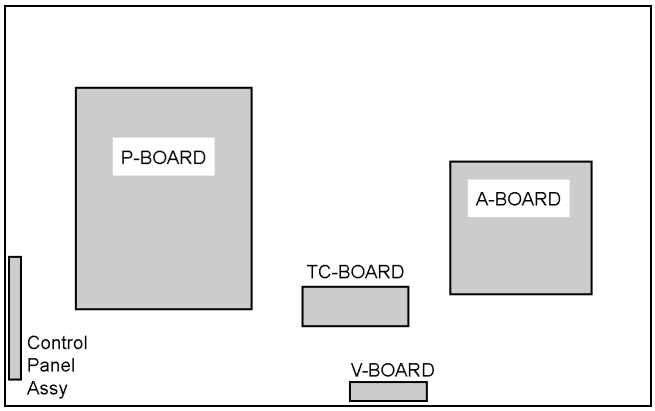
Suggested Pb free solder

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.



3 Service Navigation

3.1. Service Hint



Board Name	Function
A-Board	Speaker out, AV Terminal, HDMI in, SD Card, PC in, iPod Digital Signal Processor, Nile-Tcon, Tuner
V-Board	Remote Receiver, LED
TC-Board	T-CON
P-Board	Power (AC/DC), DC-DC Non serviceable P-Board should be exchanged for service.
Control Panel Assy	Control Button, Power switch Non serviceable Control Panel Assy should be exchanged for service.

3.2. Applicable signals

* Mark: Applicable input signal for Component (Y, PB, PR), HDMI and PC

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13 inch (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.44	59.89			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16 inch (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21 inch (1,152 ×870)	68.68	75.06			*
1,280 × 768 @60	47.78	59.87			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.39	60.04			*

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

4 Specifications

Power Source	AC 110-127 V, 60 Hz	
Power Consumption		
Maximum	137 W	
Standby Condition	0.3 W	
Display panel		
Aspect Ratio	16:9	
Visible screen size	42 inch class (42.0 inches measured diagonally)	
(W × H × Diagonal)	36.6 inch × 20.6 inch × 42.0 inch (930 mm × 523 mm × 1,067 mm)	
(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]	
Sound		
Speaker	1-way 2 speakers slim under SP System	
Audio Output	20 W [10 W + 10 W] (10 % THD)	
PC signals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz	
Channel Capability-ATSC/NTSC (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135	
Operating Conditions	Temperature:	32 °F - 95 °F (0 °C - 35°C)
	Humidity:	20 % - 80 % RH (non-condensing)
Connection Terminals		
VIDEO IN 1-2	VIDEO:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω)
	AUDIO L - R:	RCA PIN Type × 2 0.5 V [rms]
COMPONENT IN	Y:	1.0 V [p-p] (including synchronization)
	PB, PR:	±0.35 V [p-p]
	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
HDMI 1-3	TYPE A Connector × 3. ● This TV supports [HDAVI Control 5] function.	
PC	D-SUB 15PIN:	R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance)
Dock for iPod	DC 5 V 500 mA MAX	
Card slot	SD CARD slot × 1	
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	
FEATURES	3D Y/C FILTER, CLOSED CAPTION, V-Chip, HDAVI Control 5 Vesa compatible, VIERA IMAGE VIEWER	
Dimensions (W × H × D)		
Including TV stand	40.7 inch × 27.5 inch × 13.0 inch (1,032 mm × 697 mm × 329 mm)	
TV Set only	40.7 inch × 25.8 inch × 1.5 (3.0) inch (1,032 mm × 655 mm × 39 (77) mm)	
Mass		
Including TV stand	47.4 lb. (21.5 kg) NET	
TV Set only	40.8 lb. (18.5 kg) NET	

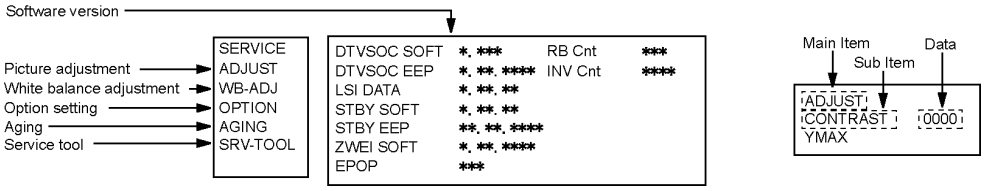
Note

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

5 Service Mode

5.1. How to enter into Service Mode

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



5.1.1. Key command

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

5.1.2. Contents of adjustment mode

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

Main item	Sub item	Sample Data	Remark
ADJUST	CONTRAST	01	
	COLOR	00	
	TINT	00	
	SUB-BRT	000	
	BACKLGT	9FFF	
	V COM	1B4	
WB-ADJ	R-GAIN	F7	
	G-GAIN	FB	
	B-GAIN	DB	
	R-CENT	82	
	G-CENT	80	
	B-CENT	86	
OPTION	Boot	ROM	Factory Preset.
	STBY-SET	00	
	EMERGENCY	ON	
	CLK MODE	OFF	
	CLOCK	FC4	
	EDID-CLK	HIGH	
AGING	COUNT		Built-in test patterns can be displayed.
	ALL WHITE		
	ALL BLACK		
	ALL RED		
	ALL GREEN		
	ALL_BLUE		
	RASTER1		
	RASTER2		
	RASTER3		
	RASTER4		
	4DIN1		
	4DIN2		
	GRAY WHITE		
	GRAY RED		
	GRAY GREEN		
	GRAY BLUE		
	FLICKER0		
	GS1		
	1 PIX STRIPE		
	2 PIX STRIPE		
	1 LINE_STRIPE		
	COLORBAR		
	WIDHT COLORBAR		
	OUTER		
	LIGHT CHECK		
	FLICKER1		
	FLICKER2		
	FLICKER3		
SRV-TOOL		00	See next.

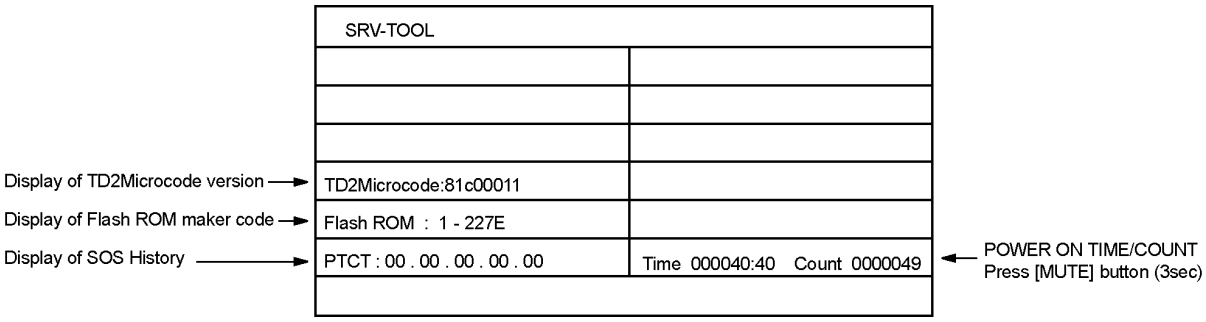
5.1.3. How to exit

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

5.2. SRV-TOOL

5.2.1. How to access

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



5.2.2. Display of SOS History

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

5.2.3. POWER ON TIME/COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3sec.
Time : Cumulative power on time, indicated hour : minute by decimal
Count : Number of ON times by decimal
Note : This indication will not be cleared by either of the self-checks or any other command.

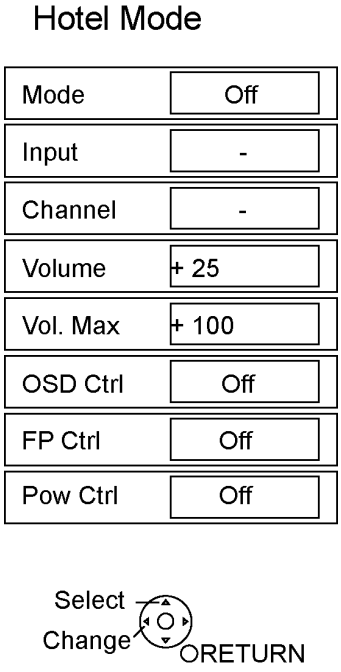
5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.3. Hotel mode

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

   Then, the Hotel mode setup menu is displayed.



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

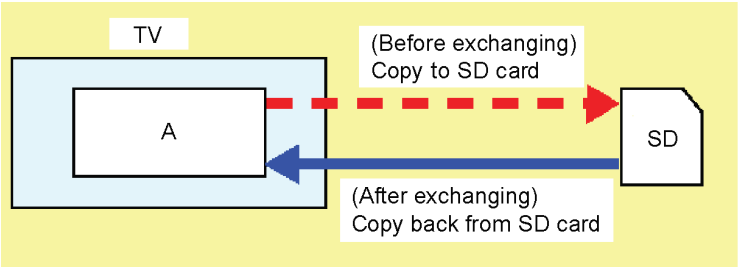
item	Function
Mode	Select hotel mode off/on
Input	Select input signal modes. Set the input, when each time power is switched on. Selection: -/RF/HDMI1/HDMI2/HDMI3/Component/ Video1/Video2/PC • OFF: give priority to a last memory.
Channel	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection: Any channel number or [-]. [-] means the channel when turns off.
Volume	Adjust the volume when each time power is switched on. Range: 0 to 100
Vol. Max	Adjust maximum volume. Range: 0 to 100
OSD Ctrl	Restrict the OSD. Selection: OFF/PATTERN1 • OFF: No restriction • PATTERN1: restriction
FP Ctrl	Select front key conditions. Selection: OFF/ALL/PATTERN1 • OFF: altogether valid. • ALL: altogether invalid. • PATTERN1: only input key is valid.
Pow Ctrl	Select POWER-ON/OFF condition when AC power cord is disconnected and then connected. OFF: The same condition when AC power cord is disconnected. ON: Forced power ON condition.

5.4. Data Copy by SD Card

5.4.1. Purpose

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

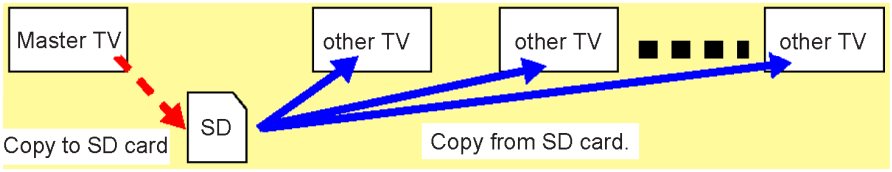
When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



Following data can be copied.
- User setting data
- (incl. 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 then copy to other TVs.



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

5.4.2. Preparation

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

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

File name:

(a) For Board replacement : boardreplace.pwd

(b) For Hotel : hotel.pwd

Note:

Please make only one file to prevent the operation error.

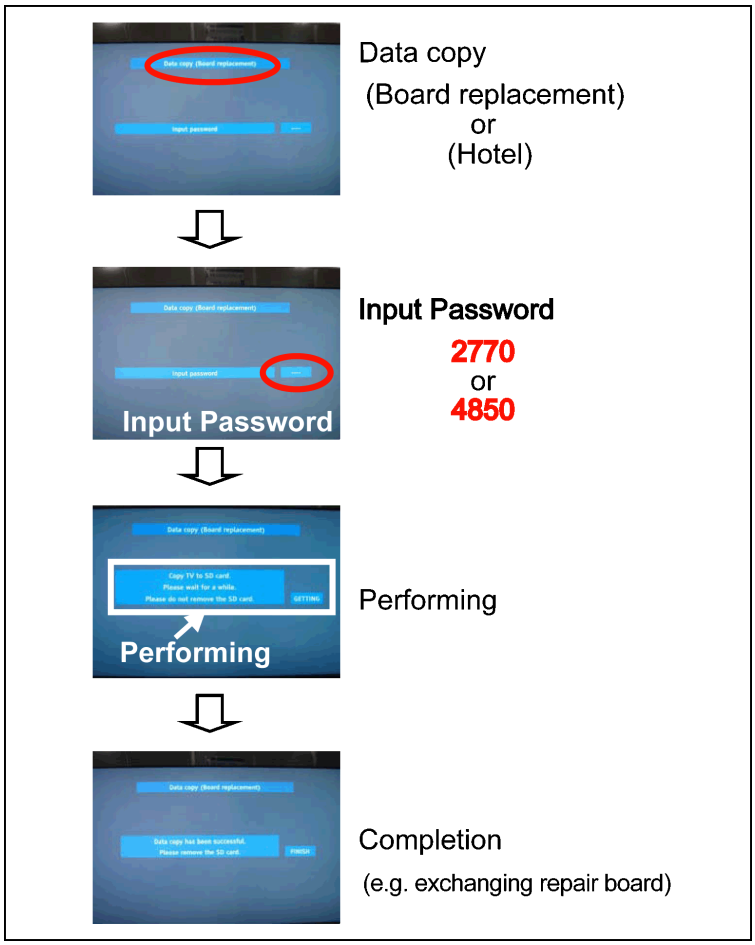
No any other file should not be in SD card.

5.4.3. Data copy from TV set to SD Card

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

Note:

Following new folder will be created in SD card for data from TV set.
(a) For Board replacement : user_setup
(b) For Hotel : hotel

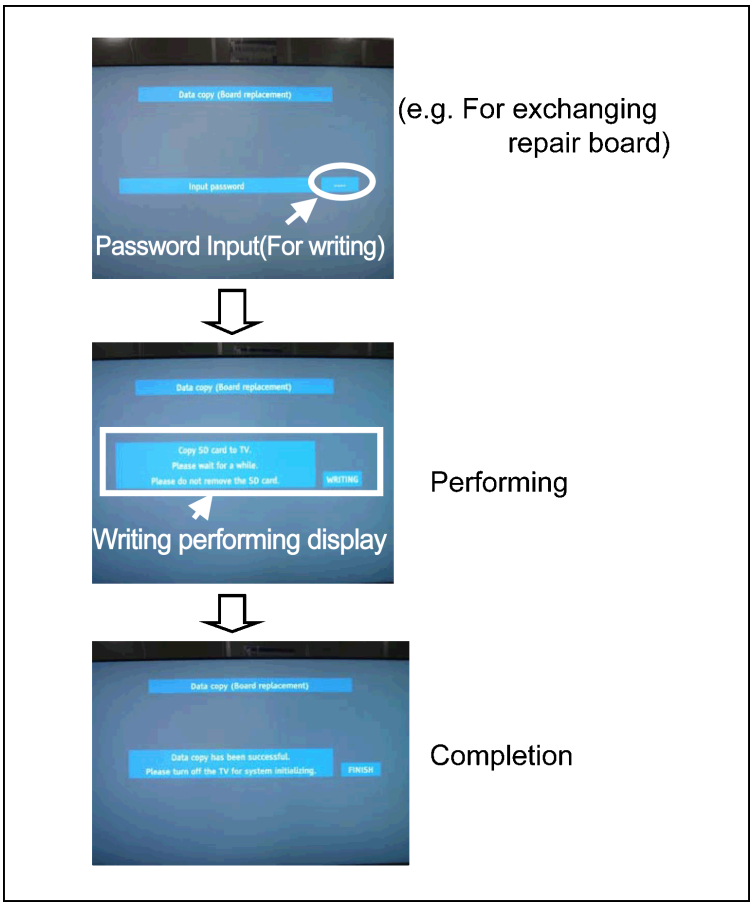


5.4.4. Data copy from to SD Card to TV set

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

Note:

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



6 Troubleshooting Guide

Use the self-check function to test the unit.

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

6.1. Check of the IIC bus lines

6.1.1. How to access

Self-check indication only:

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

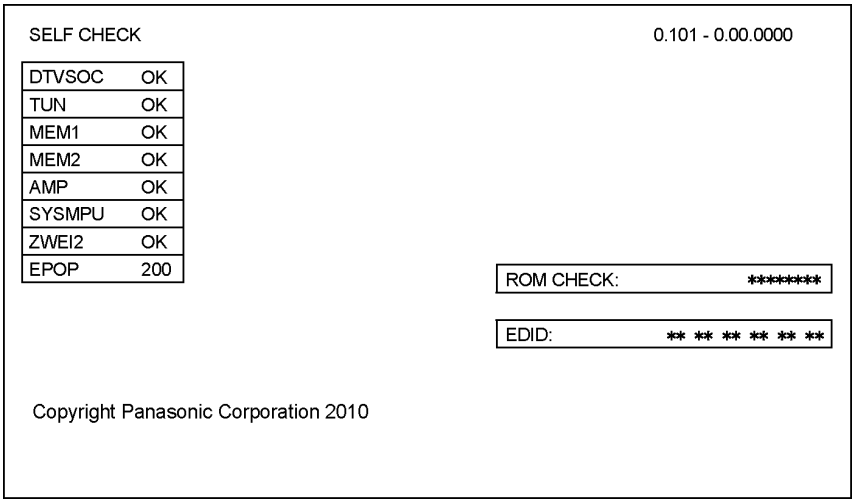
Self-check indication and forced to factory shipment setting:

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

6.1.2. Exit

Disconnect the AC cord from wall outlet.

6.1.3. Screen display



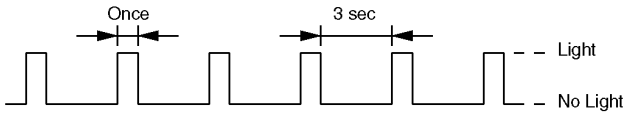
6.1.4. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Ref. No.	Description	P.C.B.
DTVSOC	IC8001	Nile-TCON	A-Board
TUN	TU8302	TUNER	A-Board
MEM1	IC8004	EEPROM (MPU)	A-Board
MEM2	IC8503	EEPROM (Nile)	A-Board
AMP	IC2106	AUDIO AMP	A-Board
SYSMPU	IC8001	MPU (Nile-TCON)	A-Board
ZWEI2	IC9006	ZWEI2	TC-Board

6.2. Power LED Blinking timing chart

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

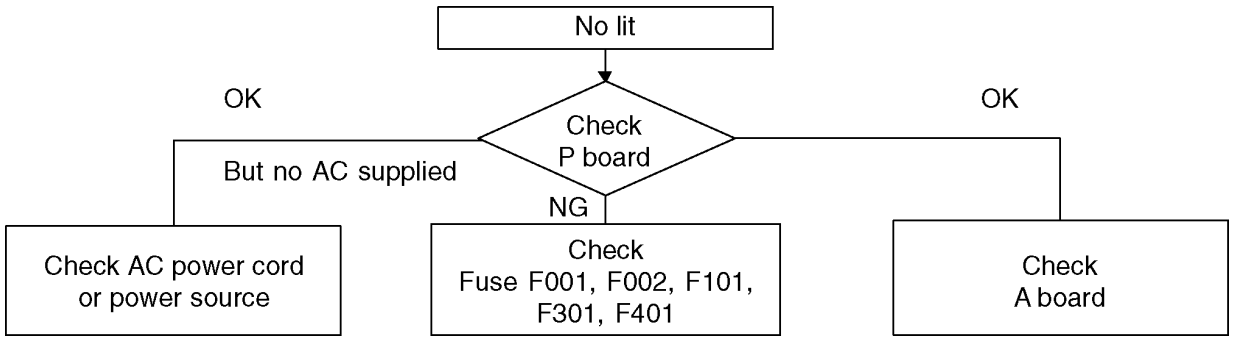
Blinking Times	Blinking timing	Contents	Check point
1		BACK LIGHT SOS	LCD PANEL P-Board
3		Tuner SOS (SUB1.2V, SUB1.8V, SUB5V F15V, SOUND15V)	A-Board P-Board
4		F15V SOS	A-Board P-Board
7		SUB3.3V SOS	A-Board
9		SOUND SOS	A-Board Speaker
10		ZWEI2 SOS	TC-Board
13		EMERGENCY SOS	A-Board

6.3. No Power

First check point

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

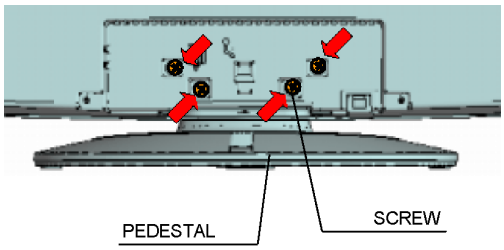
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

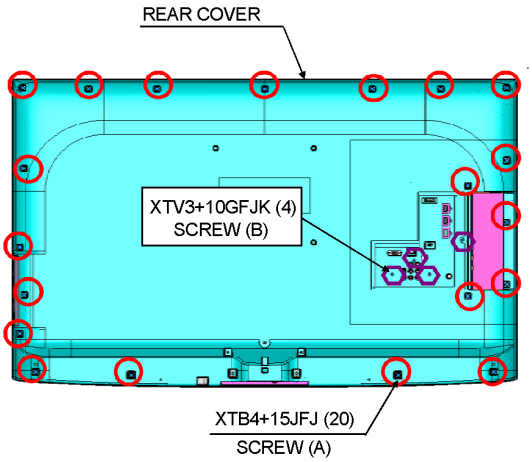
7.1. Pedestal

1. Lay down the unit so that the rear cover faces upward.
2. Remove the 4 screws.
3. Remove the pedestal.



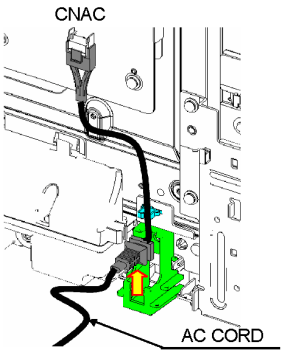
7.2. Rear cover

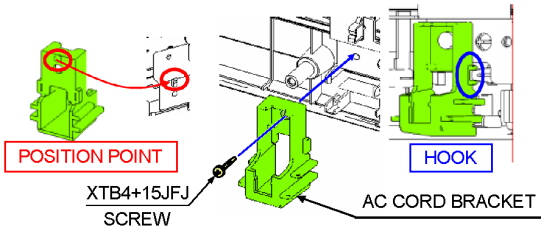
1. Remove the 20 screws (A).
2. Remove the 4 screws (B).
3. Remove the rear cover.



7.3. AC cord

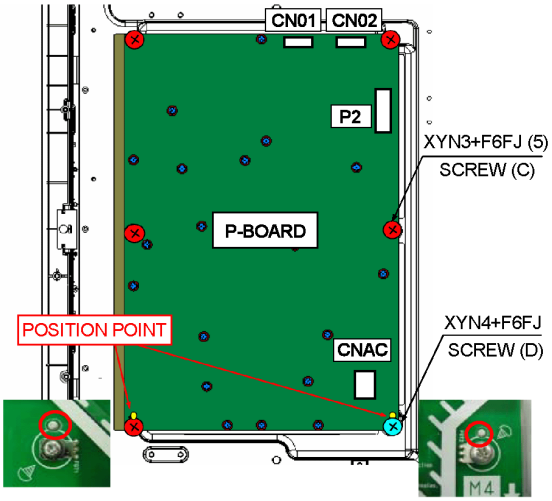
1. Remove the bushing of the AC cord from the AC cord bracket.
2. Remove the screw and Remove the AC cord bracket.
3. Disconnect the connector (CNAC) of AC cord.



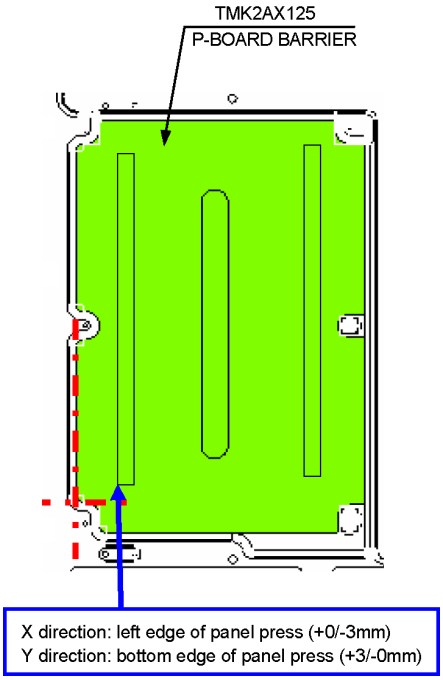


7.4. P-Board

1. Remove the 5 screws (C).
2. Remove the 1 screw (D).
3. Disconnect the connectors (CNAC, CN01, CN02 and P2).
4. Remove the P-Board.

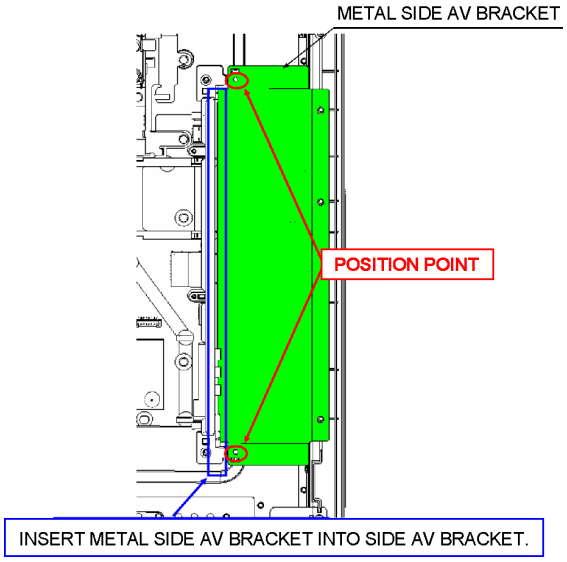


5. Remove the P-Board barrier.

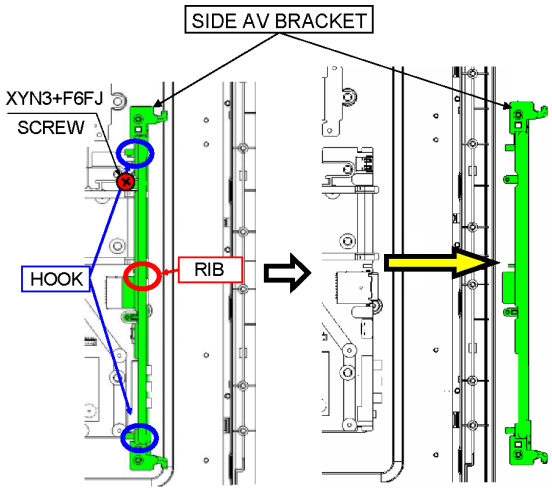


7.5. Side AV bracket

1. Remove the Metal side AV bracket.

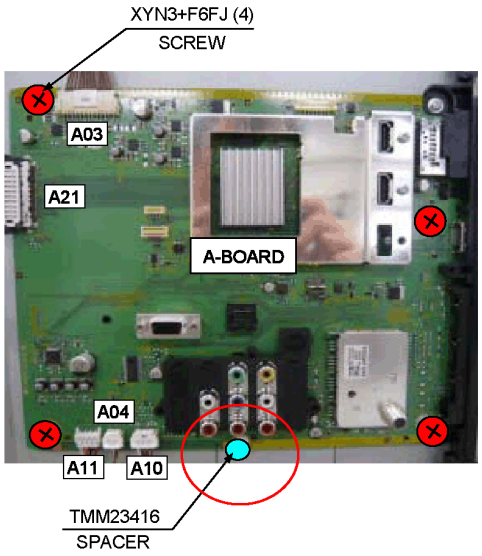


2. Remove the 1 screw.
3. Remove the side AV bracket.

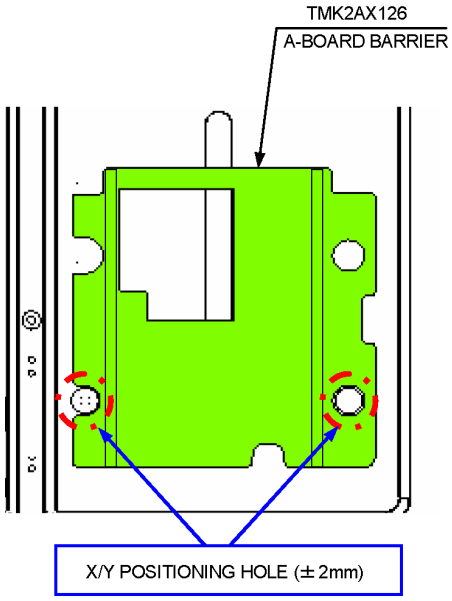


7.6. A-Board

1. Remove the 4 screws.
2. Disconnect the connectors (A03, A04, A10, A11 and A21).
3. Remove the A-Board.

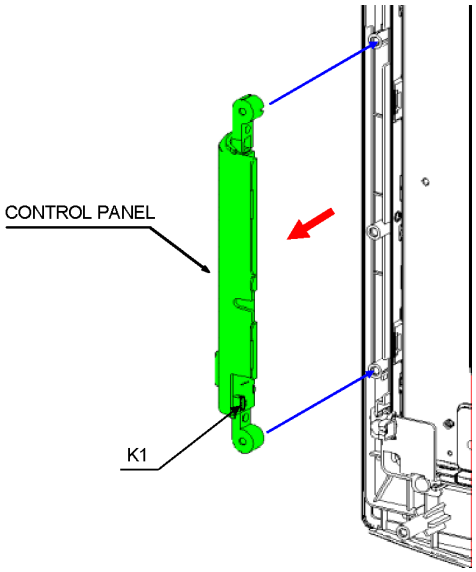


4. Remove the A-Board barrier.



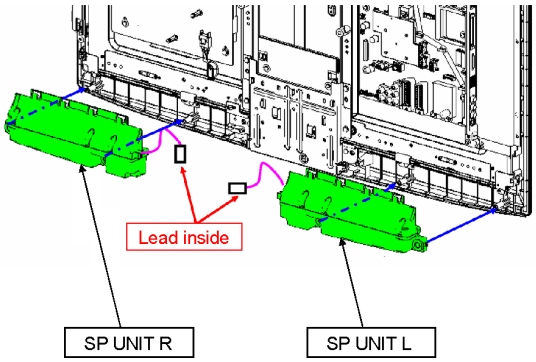
7.7. Control panel

1. Disconnect the connector (K1).
2. Remove the control panel.



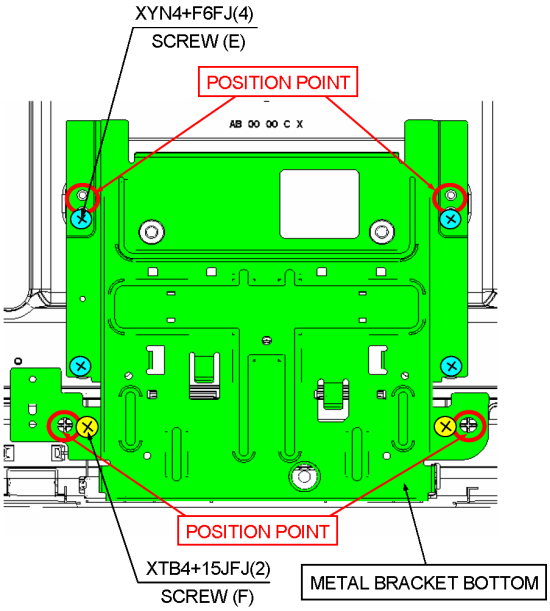
7.8. Speaker

1. Remove the speaker.



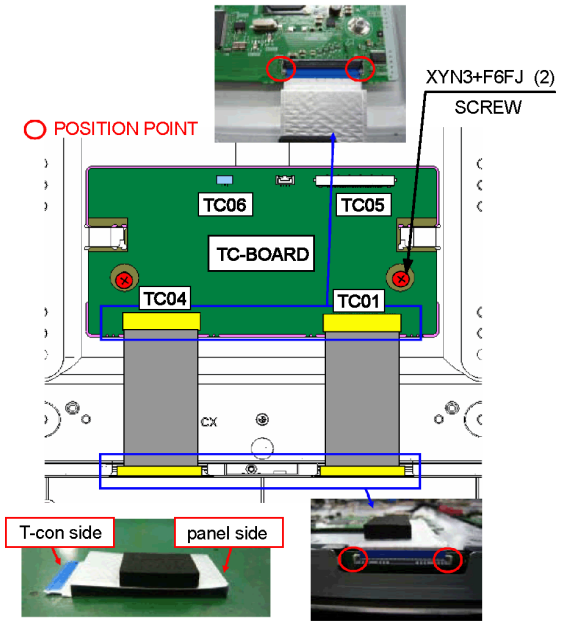
7.9. Metal bracket bottom

1. Remove the 4 screws (E).
2. Remove the 2 screws (F).
3. Remove the Metal bracket bottom.

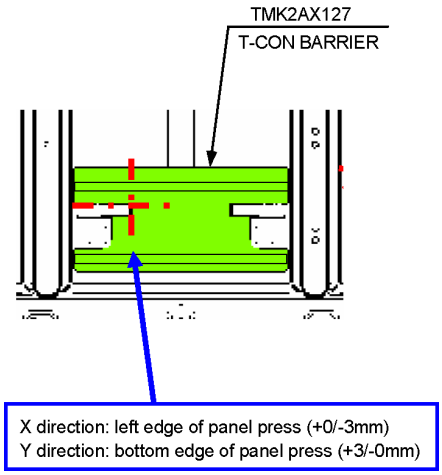


7.10. TC-Board

1. Remove the 2 screws.
2. Disconnect the connectors (TC01, TC04, TC05 and TC06).
3. Remove the TC-Board.

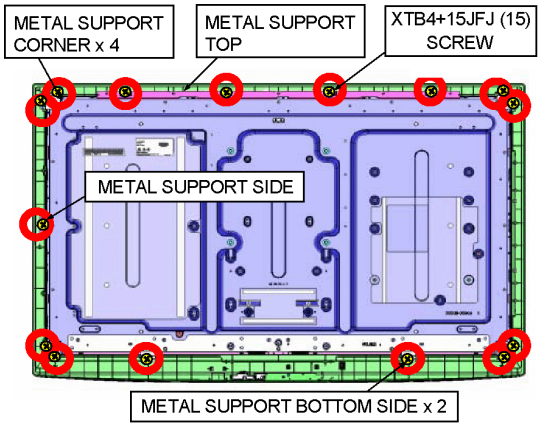


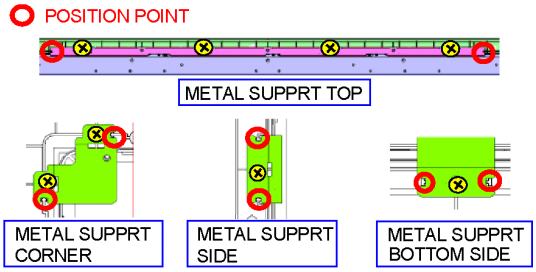
4. Remove the T-CON barrier.



7.11. Metal support

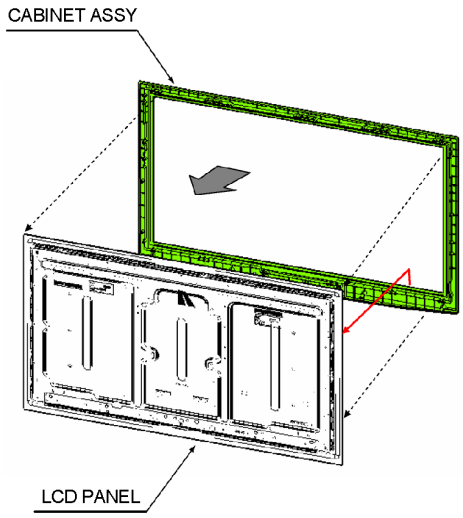
1. Remove the 4 screws.
2. Remove the Metal support top.
3. Remove the 8 screws.
4. Remove the Metal support corner.
5. Remove the 1 screw.
6. Remove the Metal support side.
7. Remove the 2 screws.
8. Remove the Metal support bottom side.





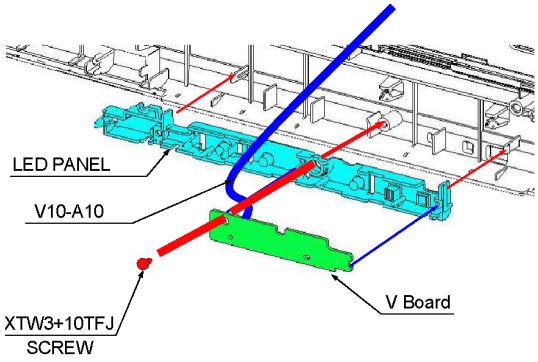
7.12. LCD Panel

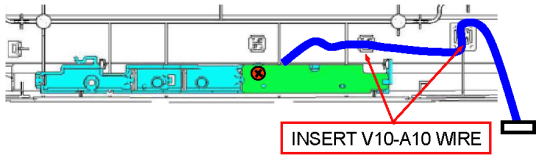
1. Remove the LCD panel.



7.13. V-Board

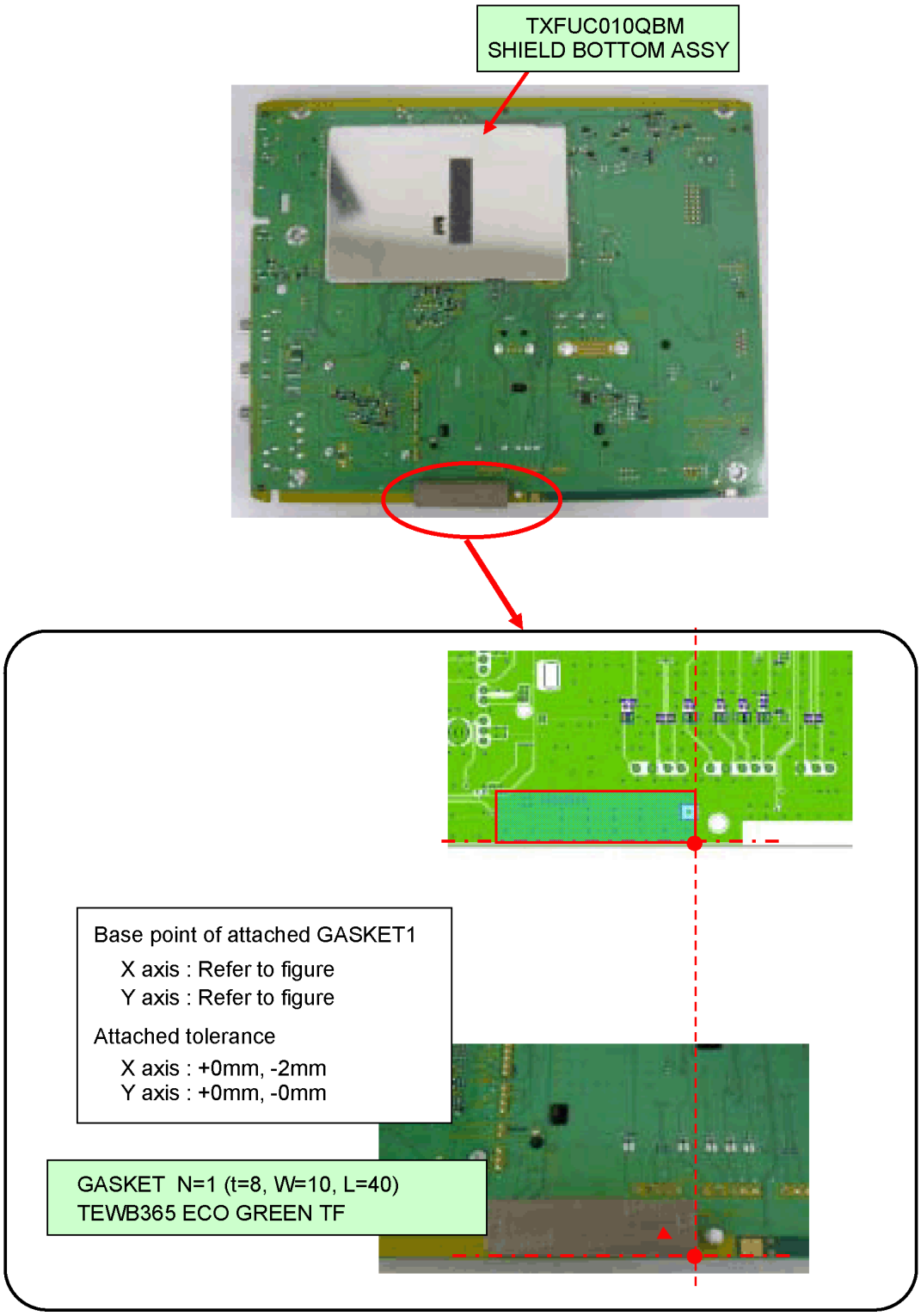
1. Remove the 1 screw.
2. Disconnect the connector (V10).
3. Remove the V-Board.



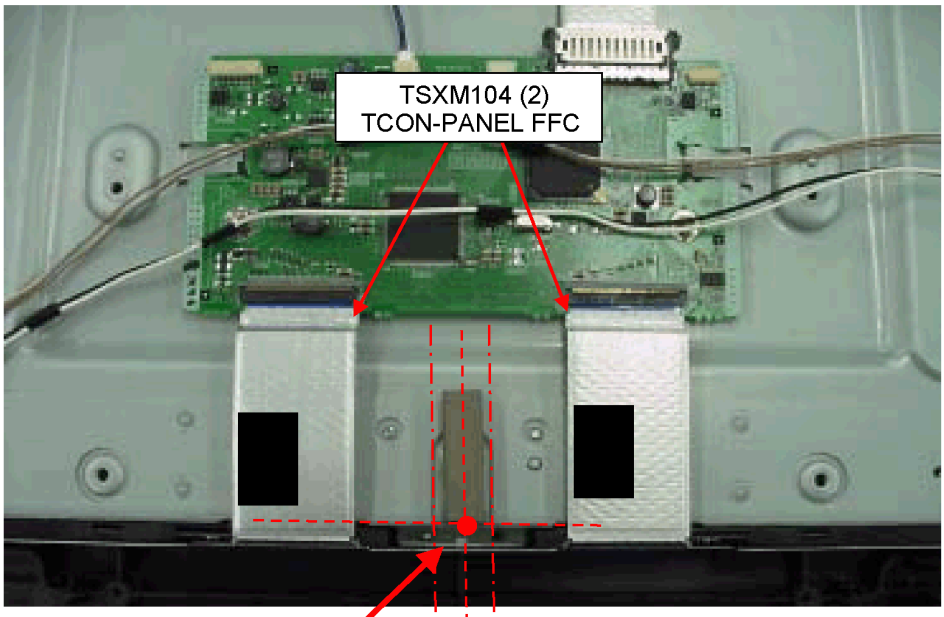


7.14. EMI processing

PUT GASKET ON A PRINT.



PUT GASKET ON PANEL.

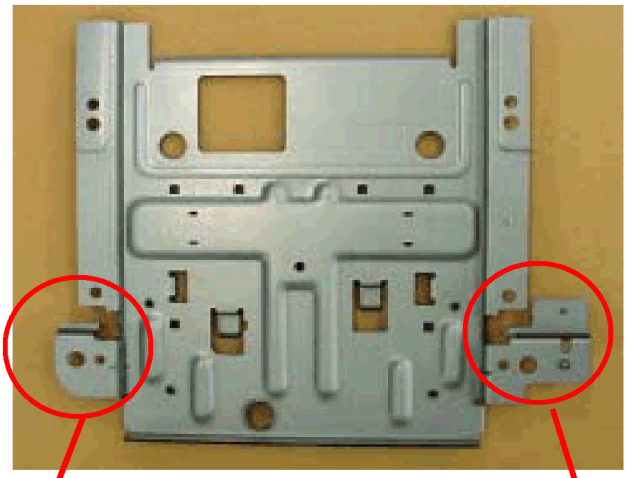


Base point of attached GASKET 1
X axis : Refer to figure
Y axis : Refer to figure

Attached tolerance
X axis : +3mm, -3mm
Y axis : +3mm, -0mm

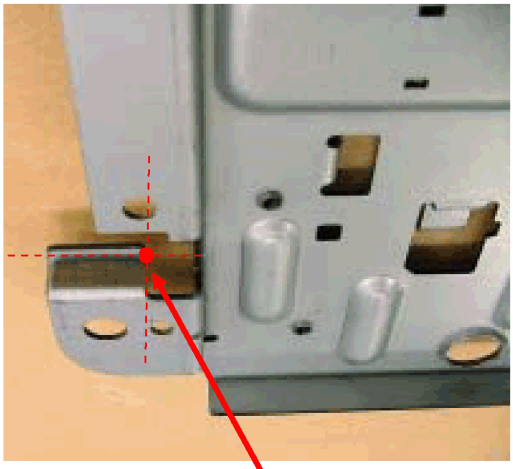
GASKET N=1 (t=10, W=10, L=40)
TEWB361 ECO GREEN TF

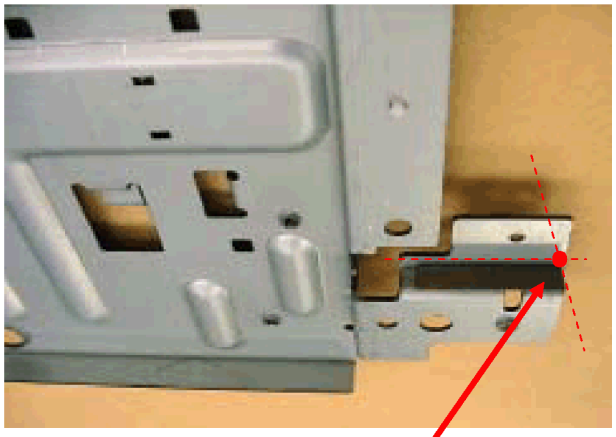
PUT GASKET ON METAL.



GASKET N=1 (t=2, W=7, L=20)
TEWB389 ECO GREEN TF

GASKET N=1 (t=2, W=7, L=35)
TEWB381 ECO GREEN TF

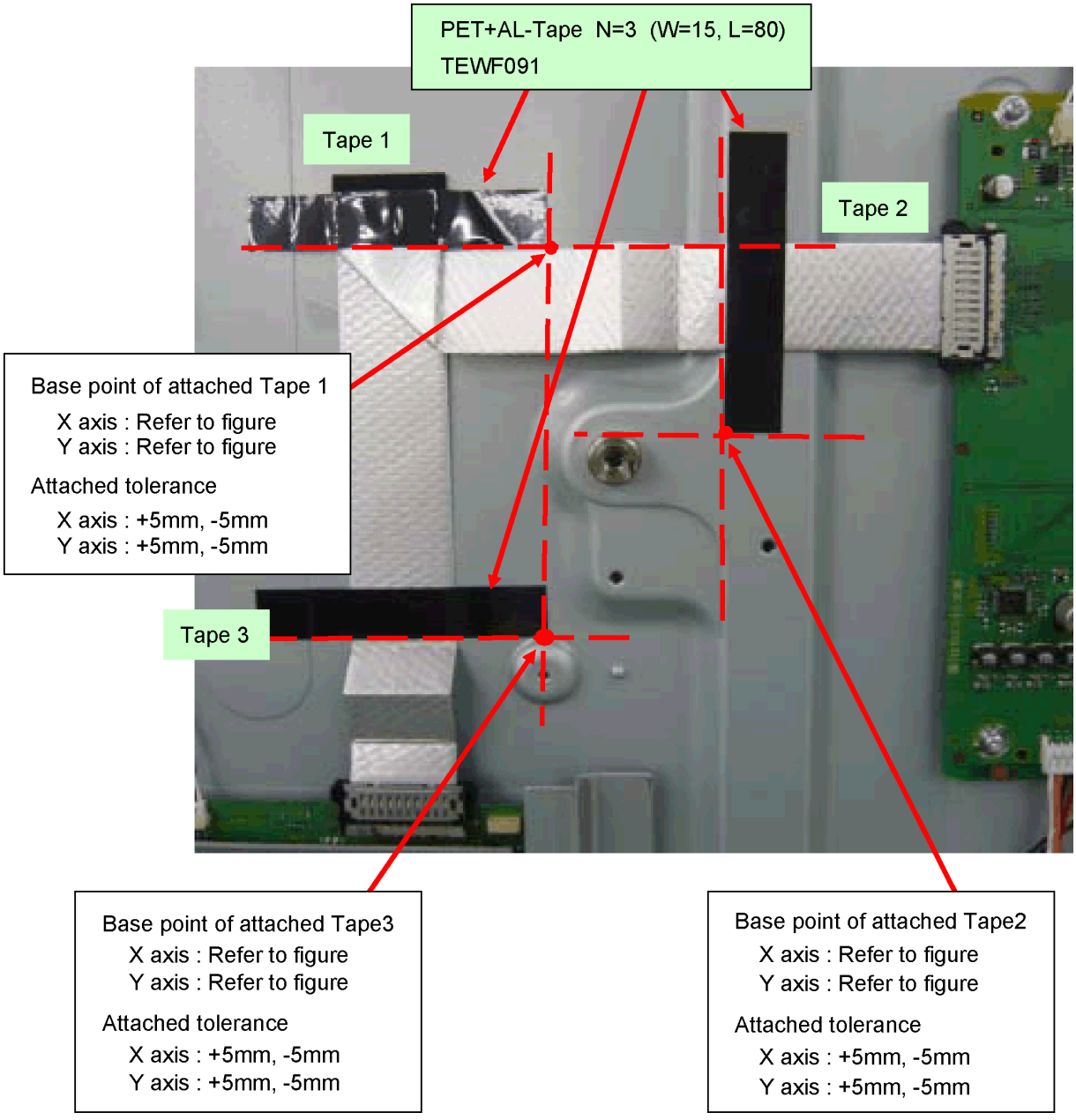




Base point of attached GASKET 1
X axis : Refer to figure
Y axis : Refer to figure
Attached tolerance
X axis : +0mm, -3mm
Y axis : +0mm, -3mm

Base point of attached GASKET 1
X axis : Refer to figure
Y axis : Refer to figure
Attached tolerance
X axis : +0mm, -3mm
Y axis : +0mm, -3mm

PUT PET+AL Tape on PANEL.



8 Measurements and Adjustments

8.1. VCOM Adjustment (Flicker Adjustment)

8.1.1. General information:

When replacing LCD panel, TC board (T-CON) or both, [VCOM] Adjustment have to be done.
Data for VCOM Adjustment is different depend on the LCD panel and the data is stored in TC board.
Adjustment procedures are as follows.

8.1.2. Adjustment procedures:

When replacing LCD panel, TC board or both, [VCOM] Adjustment have to be done.

1. Set to Service mode

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

2. Go into VCOM value indication

Go into main item ADJUST by pressing [1] button on remote control.
Go into sub item VCOM by pressing [3] button on remote control.
Adjustment value of VCOM is displayed.

3. Flicker Confirmation

Go to flicker adjustment screen by pressing [5] button on remote control.
Confirm if flicker can be seen.
No flicker --- Exit from Service mode.
Flicker --- Adjustment have to be done.

4. VCOM Adjustment (Flicker Adjustment)

This procedure writes into EEPROM correct data so the panel does not flicker.
Press remote control [+/ -] button to delete or minimize the flicker in flicker adjustment screen.
Press [OK] button. Correct data is automatically written into EEPROM (IC9206).

Caution:

The data can be written into EEPROM only 15 times. Don’t press [OK] button many time.
If the data can not be written, replace TC board or IC9206 to new one.

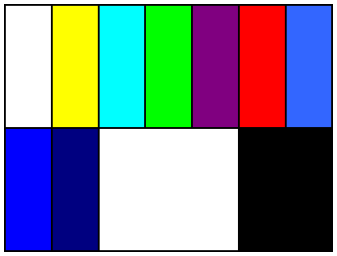
5. Exit from Service mode

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

8.2. Voltage chart of A-board

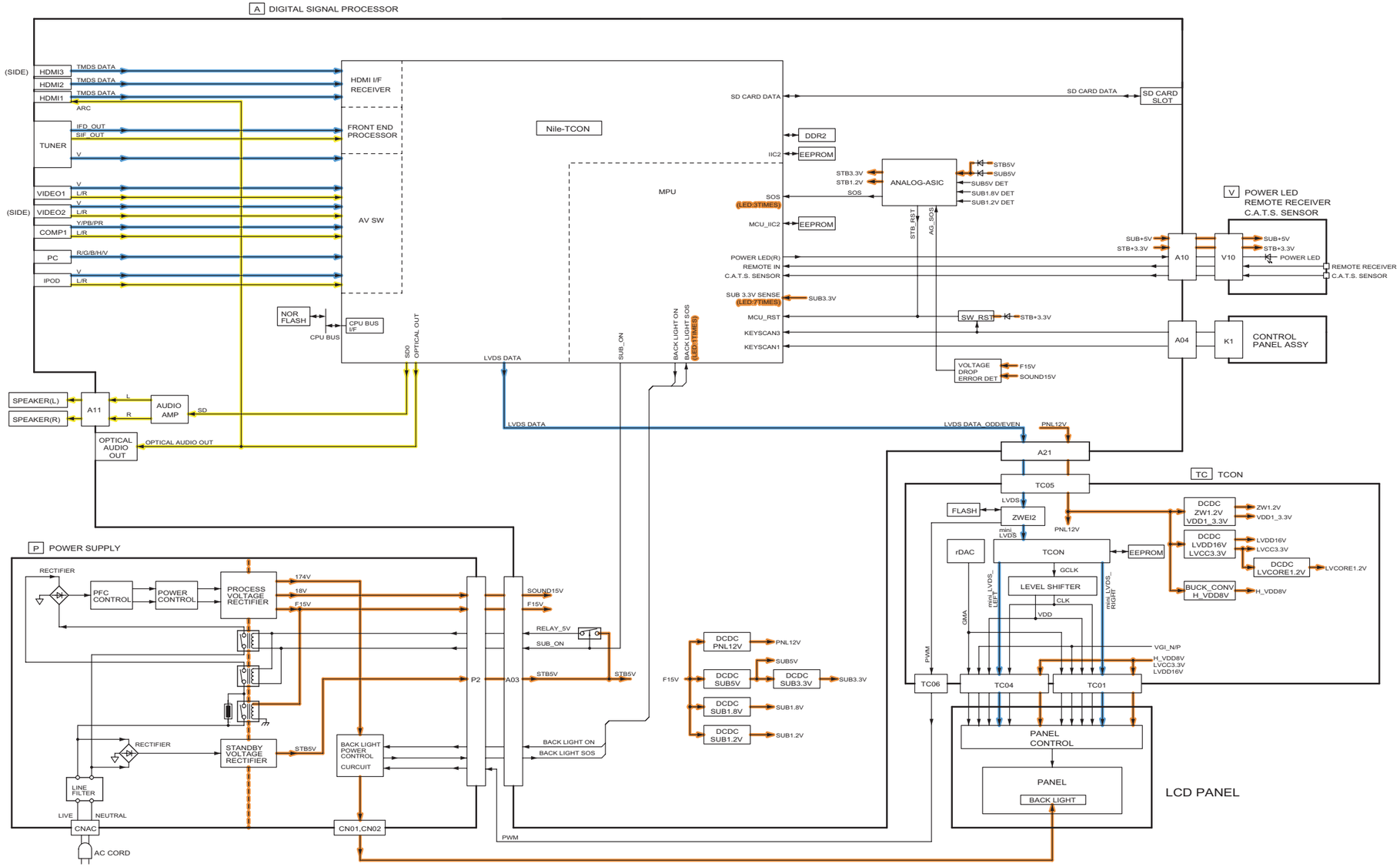
VOLTAGE	TEST POINT	SPECIFICATION (Reception state)
STB3.3V	TP4716	3.3 ± 0.16 V
SUB5V	TP4724	5 ± 0.25 V
PANEL12V	TP5413	12 ± 0.6 V
SOUND15V	TP2765	18 ± 2 V
5VS	TP2768	6.1 ± 0.3 V
SUB6V	TP2767	6.1 ± 0.3 V

8.3. Picture level adjustment (RF)

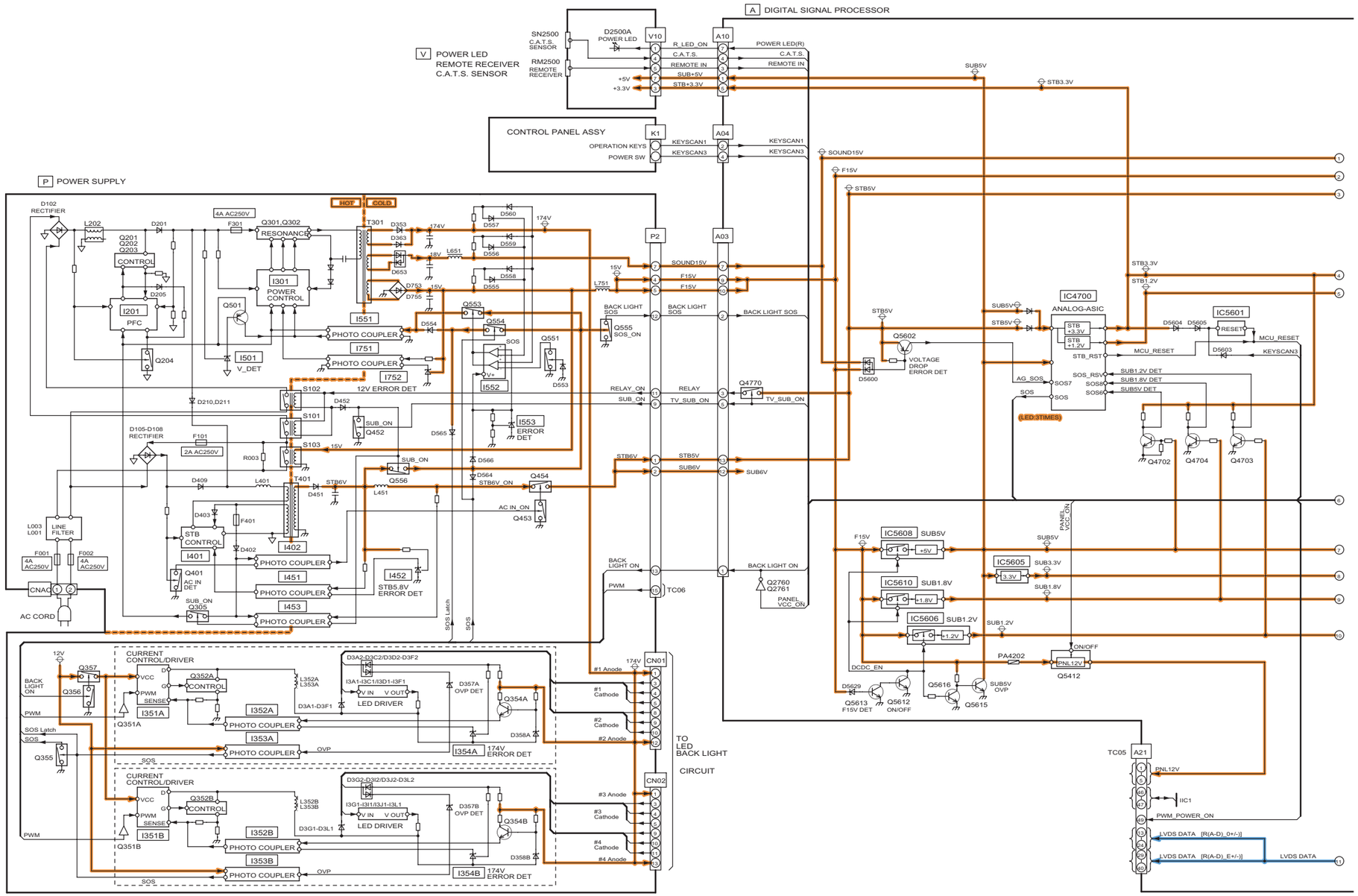
Instrument Name	Remarks
1. REMOTE TRANSMITTER 2. Ex. Signal (Sprit color bar)	
Adjustment or Inspection Procedure	Remarks
< procedure > 1. Receive the Sprit color bar. (Screen mode: ZOOM or FULL Picture mode: DYNAMIC AI: OFF AI Picture: OFF) *BACK LIGHT +30 **< Inspection >** 1. Enter Service mode, and select MAIN_ADJ PICTURE. Volume UP/DOWN key makes GAIN displayed under PICTURE to set. Pushing the remote controller [OK] key for about 3 seconds, GAIN is suited to the adjustment value automatically.  (The Sprit Color Bar Pattern)	

9 Block Diagram

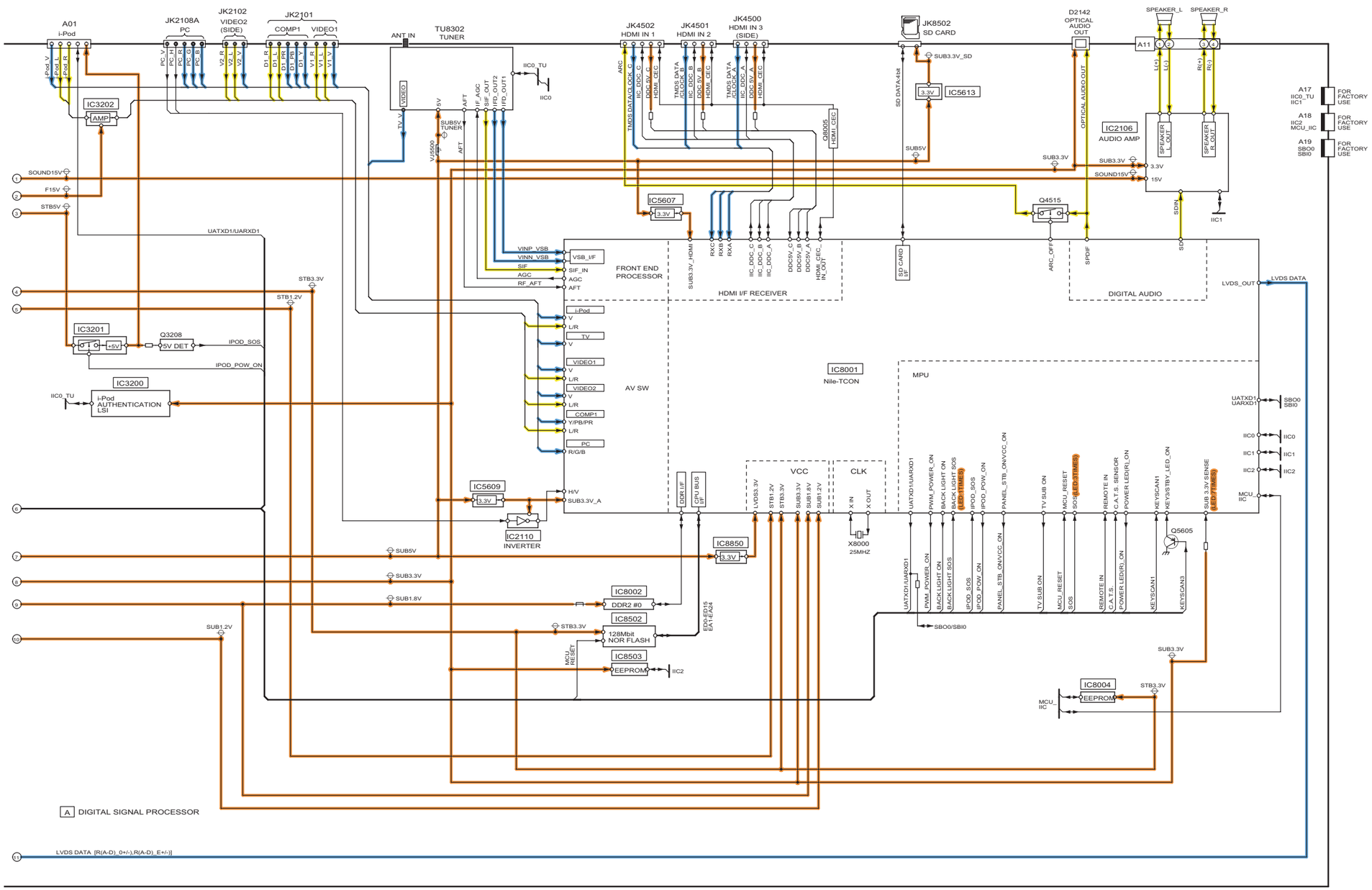
9.1. Main Block Diagram



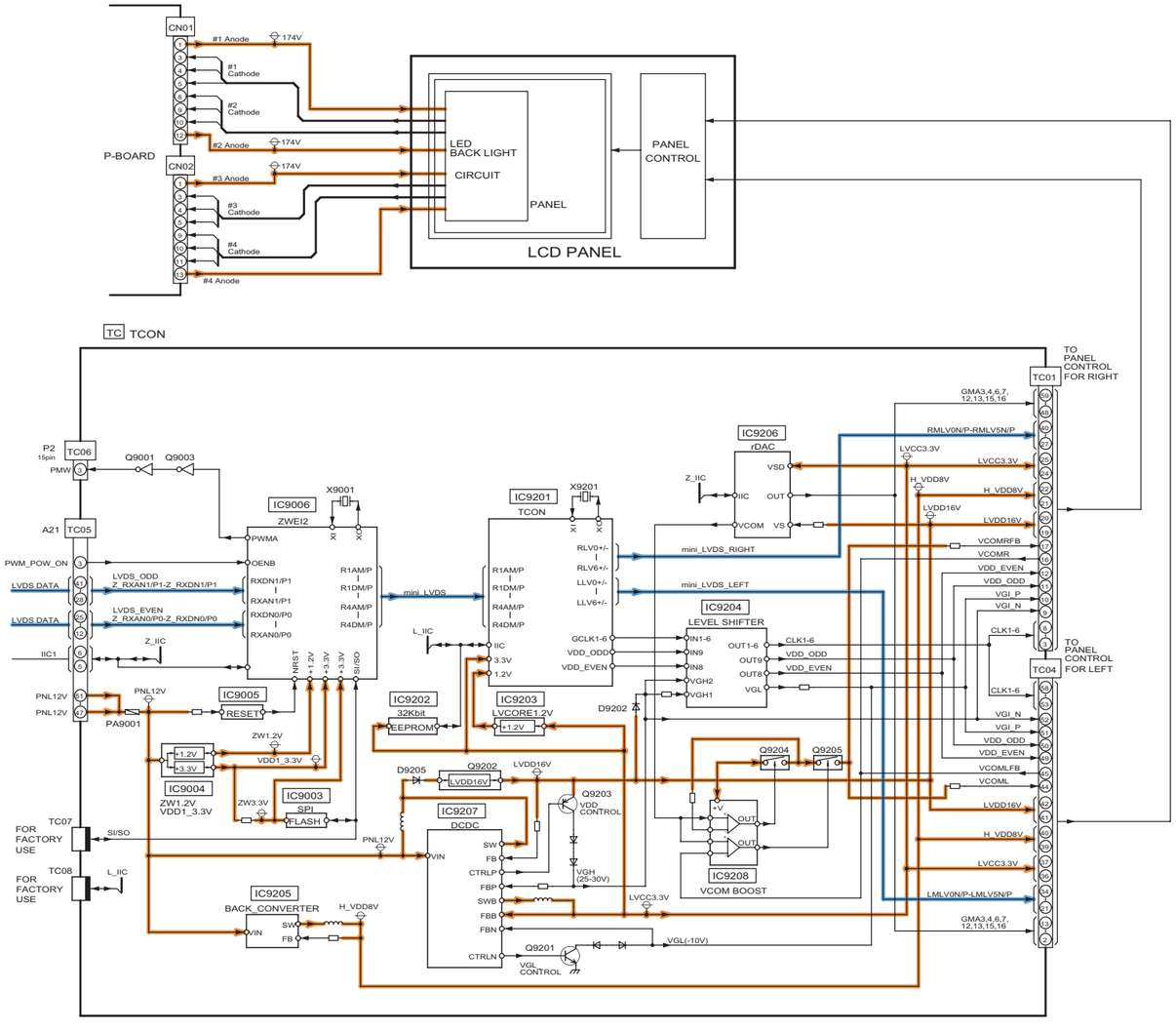
9.2. Block (1/3) Diagram



9.3. Block (2/3) Diagram



9.4. Block (3/3) Diagram



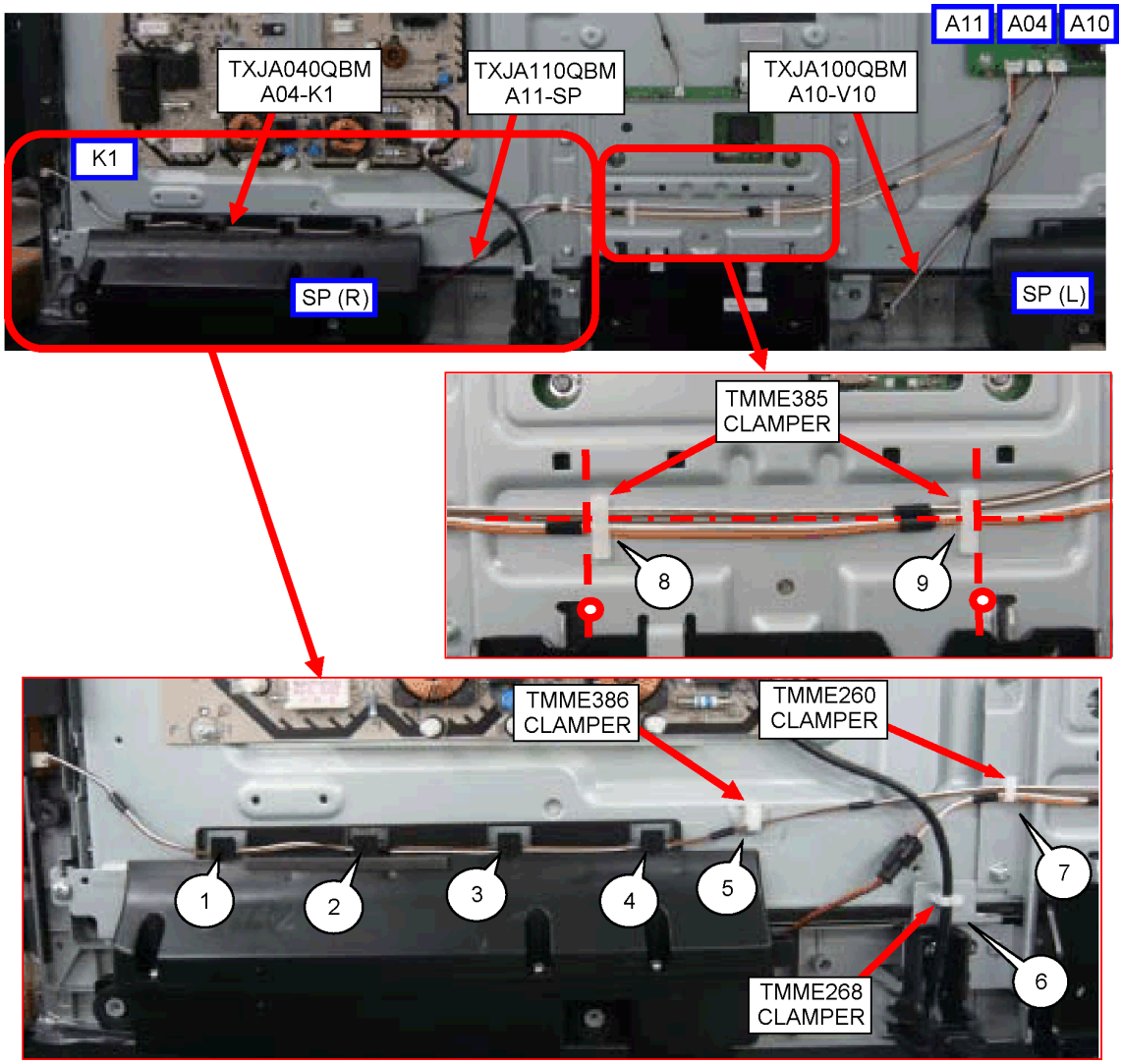
10 Wiring Connection Diagram

10.1. Caution statement.

Caution:

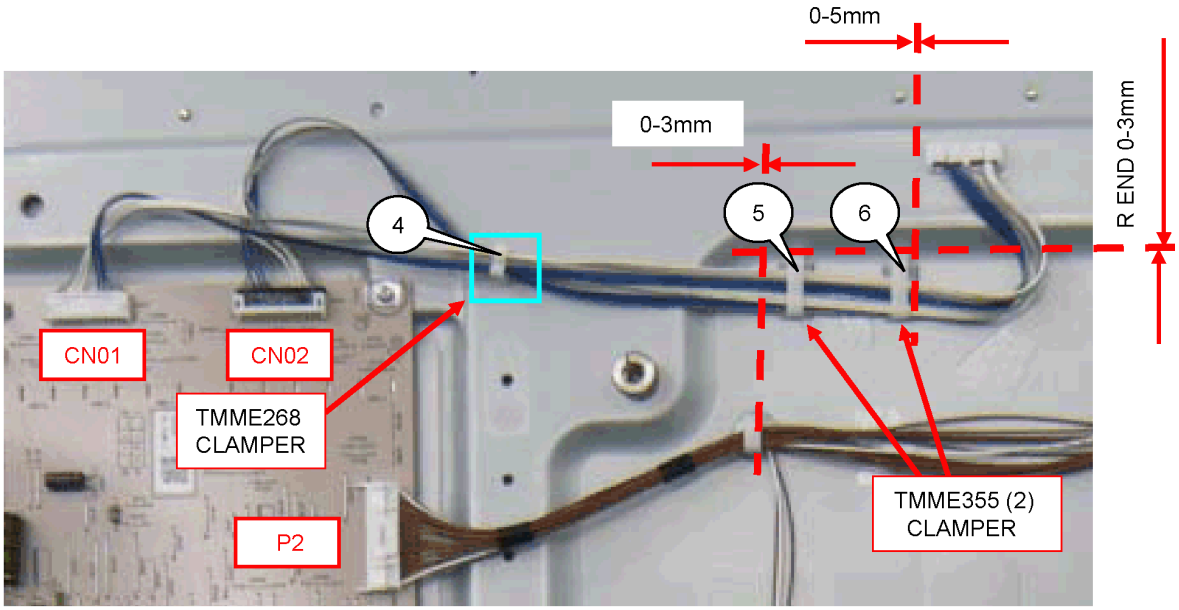
Please confirm that all flexible cables are assembled correctly.
Also make sure that they are locked in the connectors.
Verify by giving the flexible cables a very slight pull.

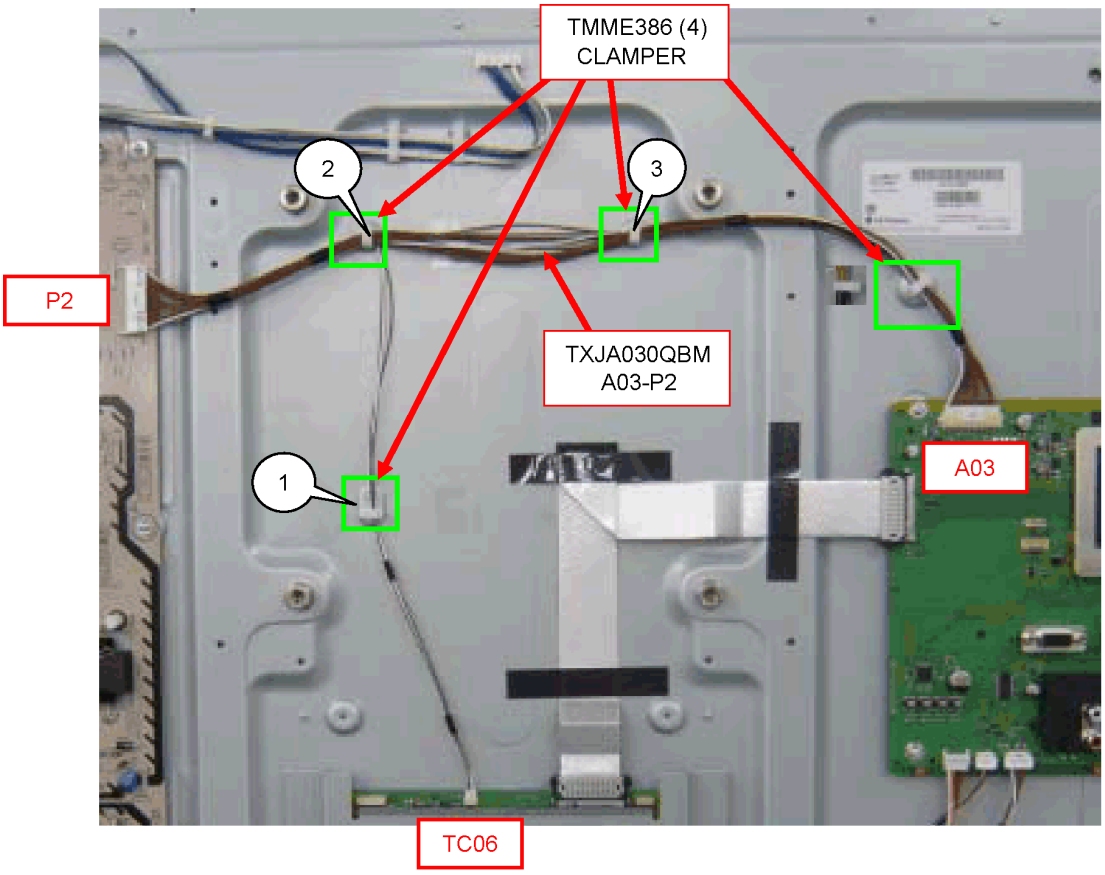
10.2. Wiring (1)



	①	②	③	④	⑤	⑥	⑦	⑧	⑨
A04-K1	●	●	●	●	●		●	●	●
A10-V10									
A11-SP(L)									
A11-SP(R)							●	●	●
AC CORD						●			

10.3. Wiring (2)





	①	②	③	④	⑤	⑥
LED DRIVER-CN01				●	●	●
LED DRIVER-CN02				●	●	●
A03-P2		●	●			
TC06-P2	●	●				

11 Schematic Diagram

11.1. Schematic Diagram Notes

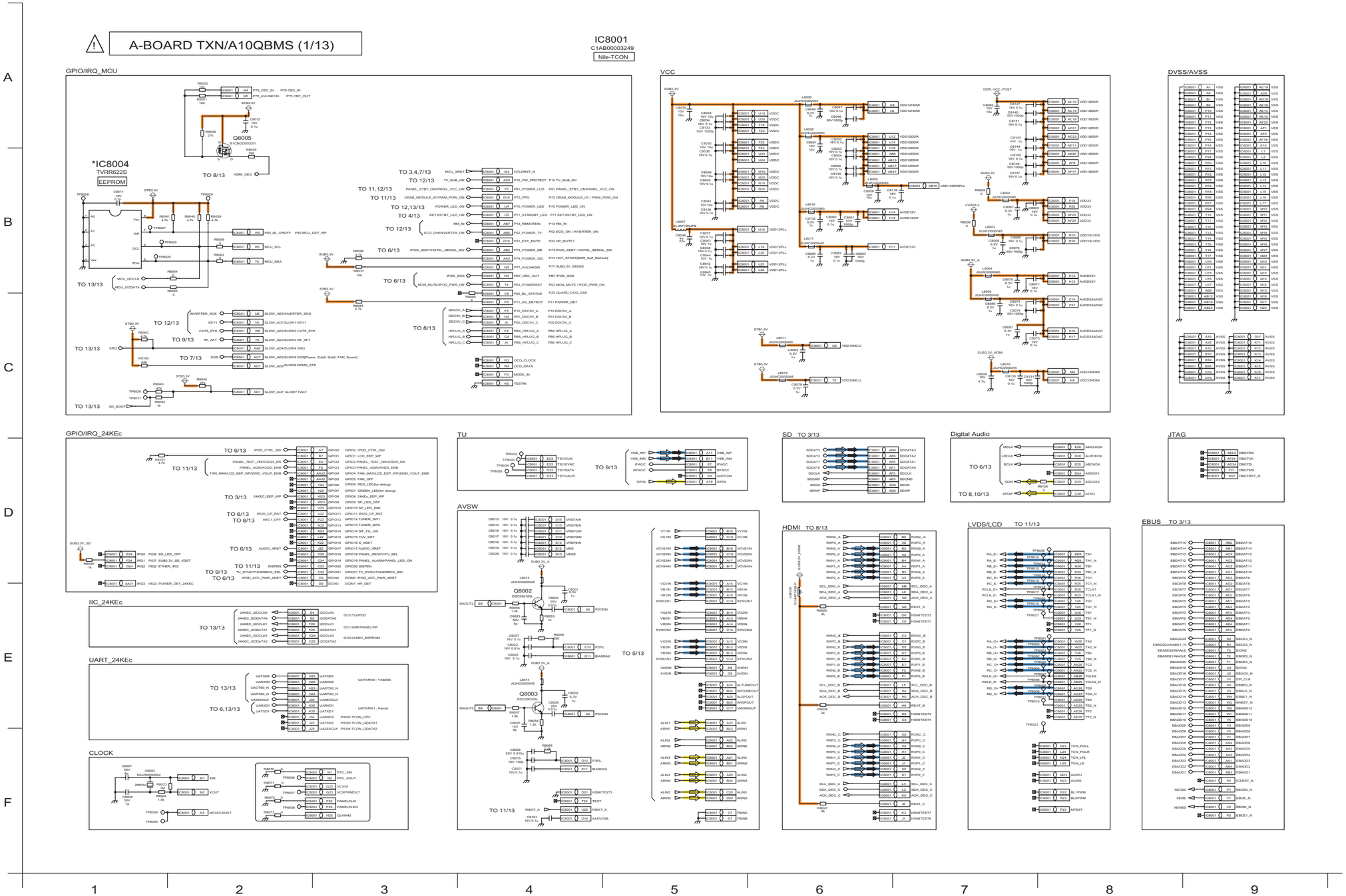
Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC110-127V, 60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

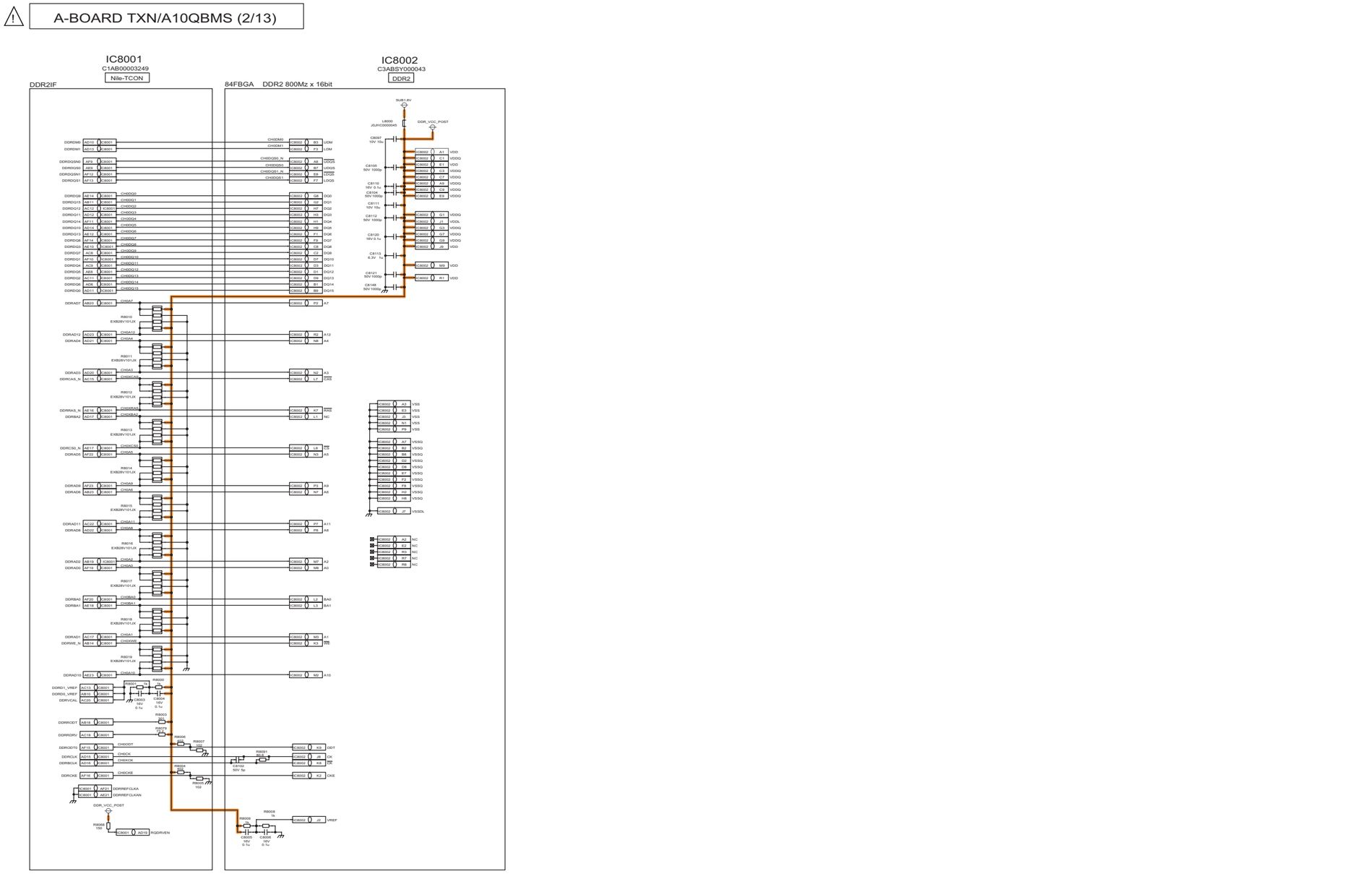
Remarks:

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

11.2. A-Board (1/13) Schematic Diagram

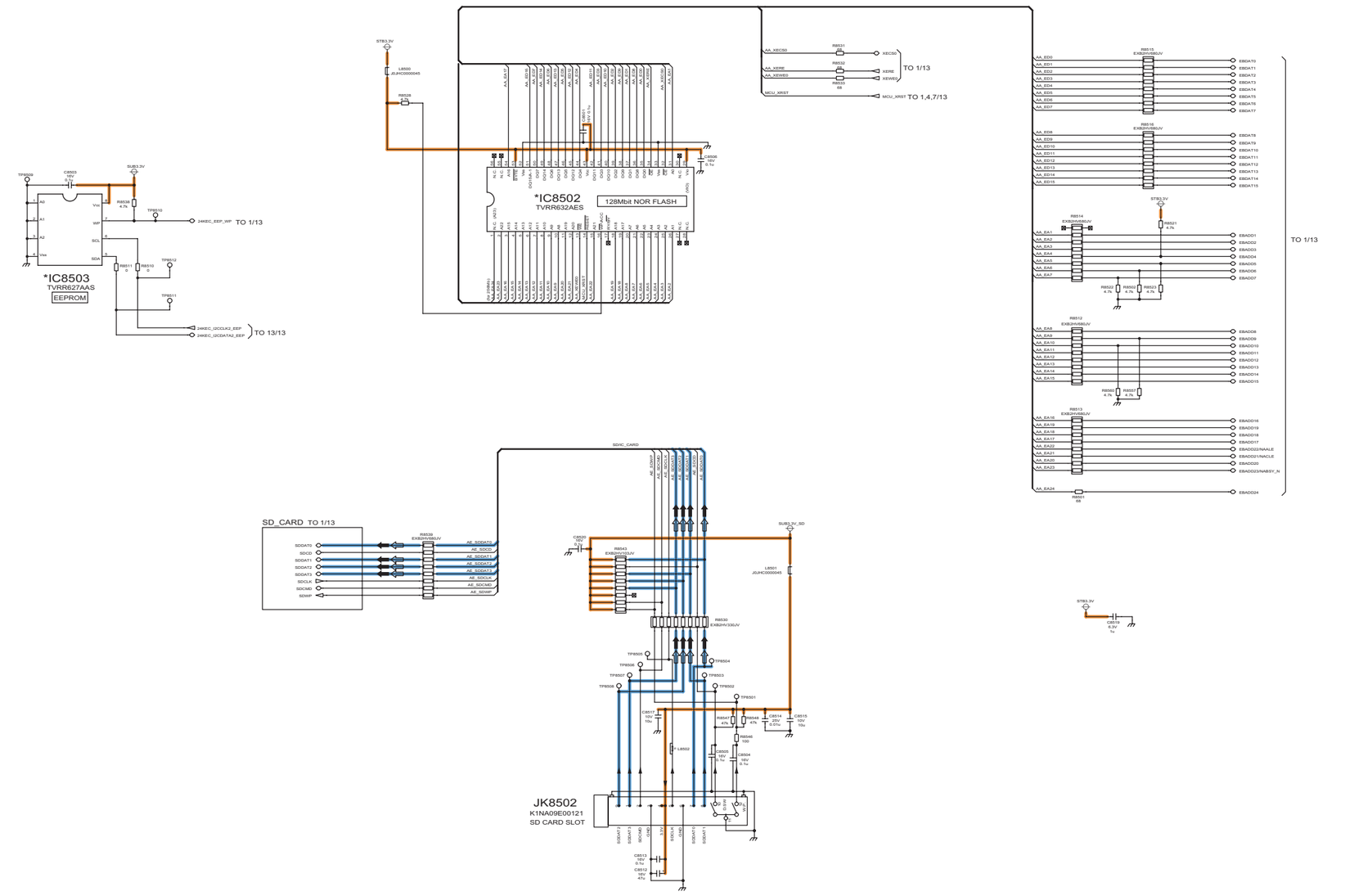


11.3. A-Board (2/13) Schematic Diagram



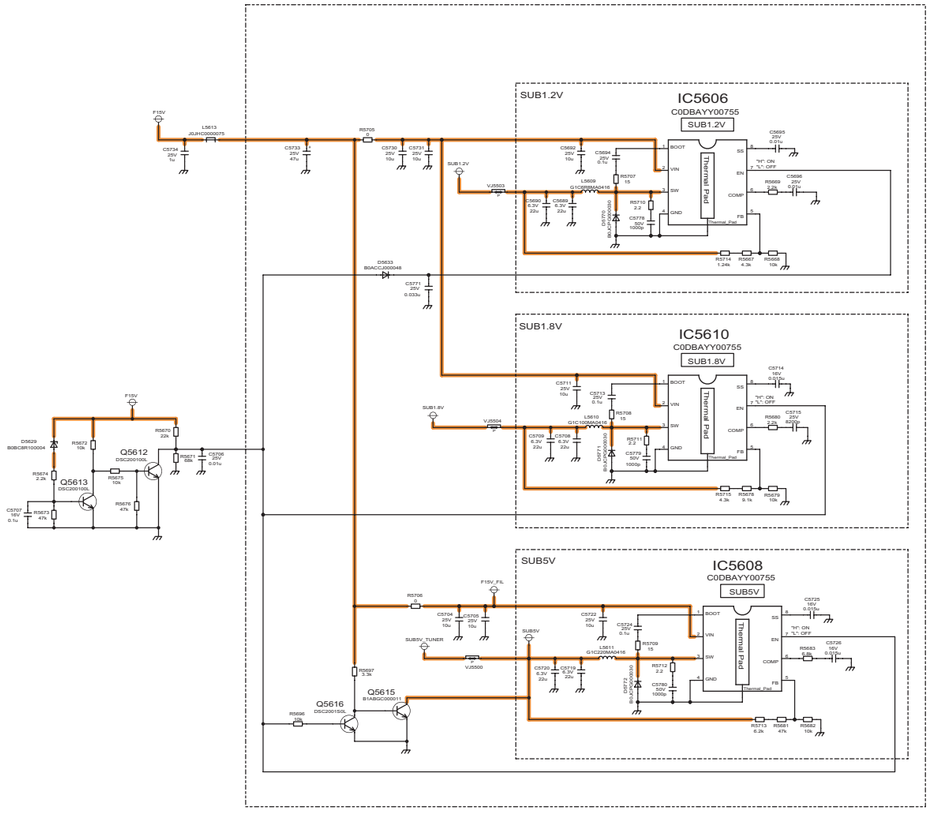
11.4. A-Board (3/13) Schematic Diagram

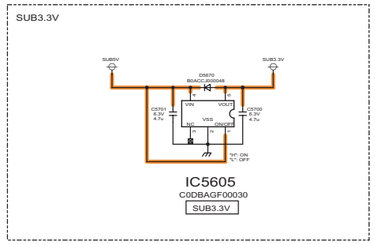
⚠ A-BOARD TXN/A10QBMS (3/13)

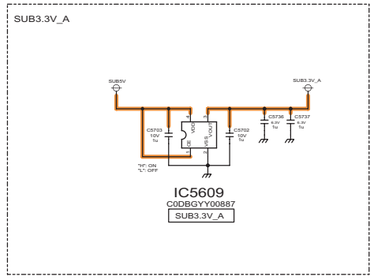


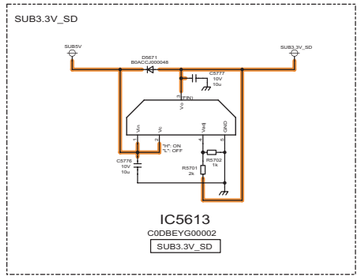
11.5. A-Board (4/13) Schematic Diagram

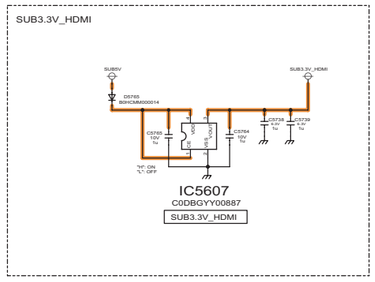
A-BOARD TXN/A10QBMS (4/13)

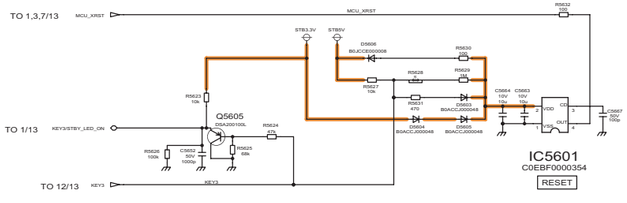






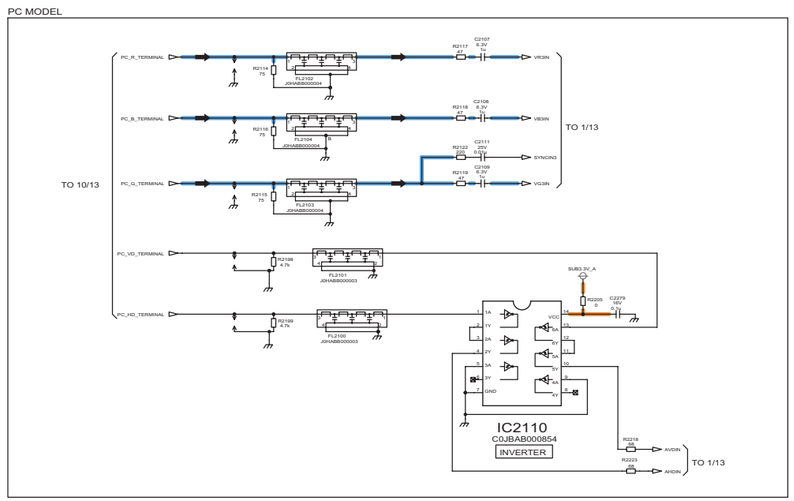


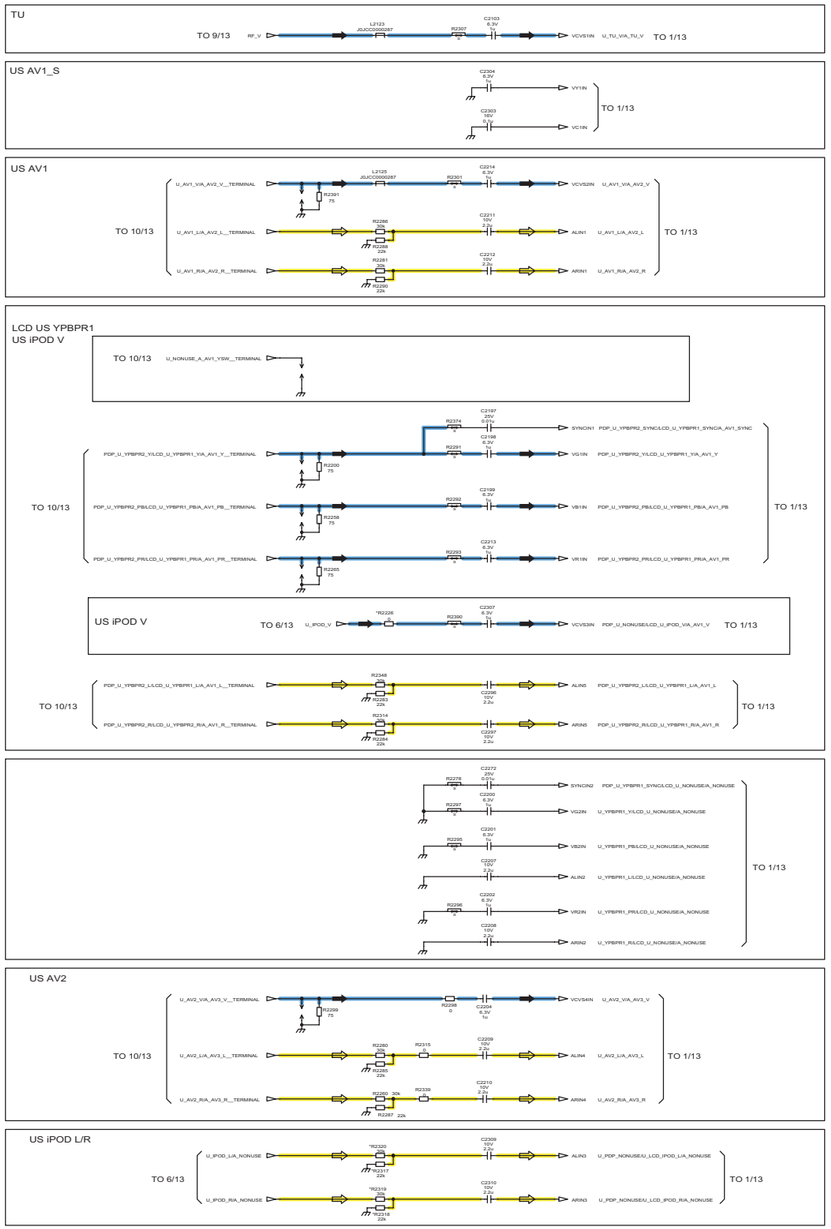




11.6. A-Board (5/13) Schematic Diagram

⚠ A-BOARD TXN/A10QBMS (5/13)

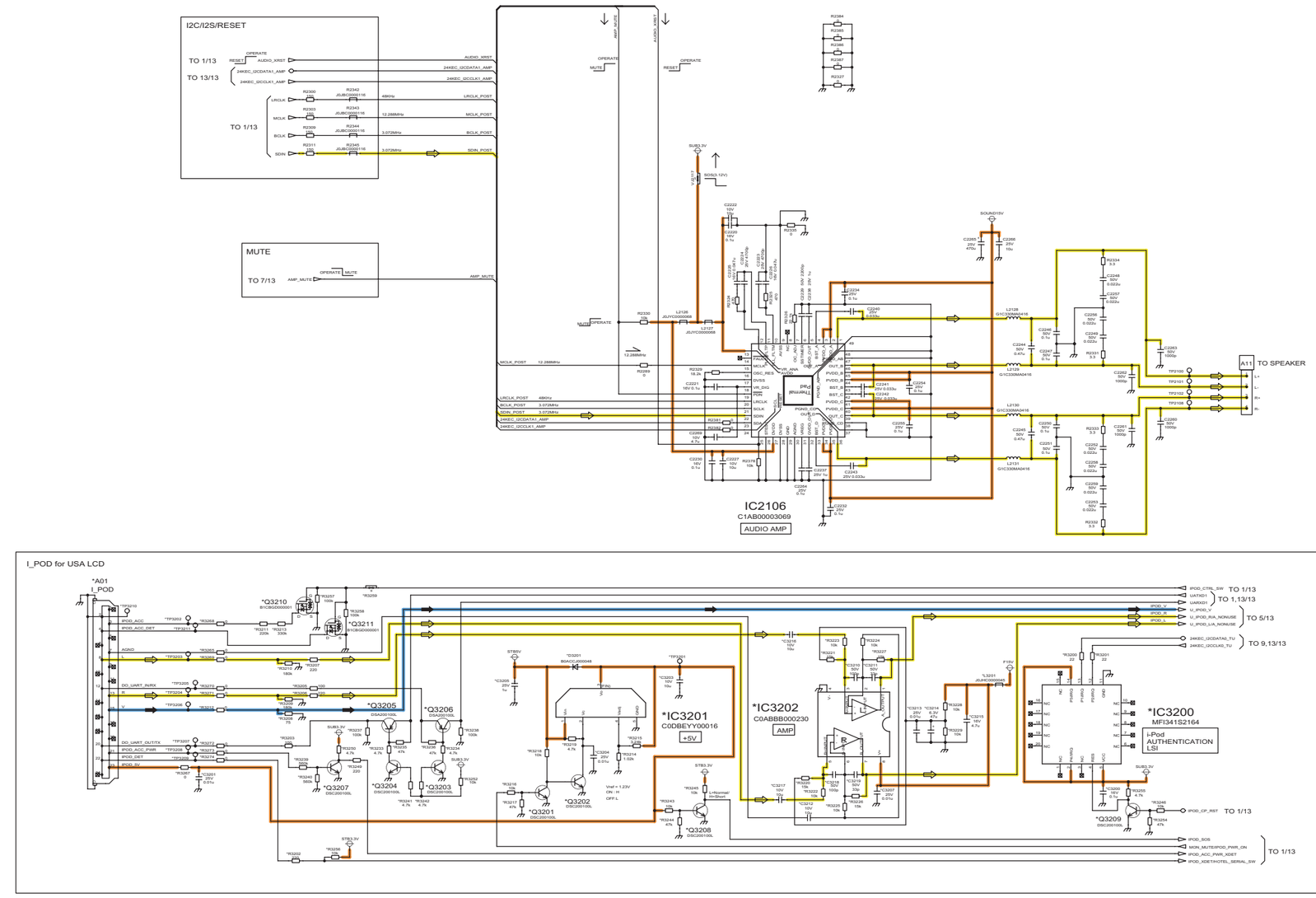




37 38 39 40 41 42 43 44 45

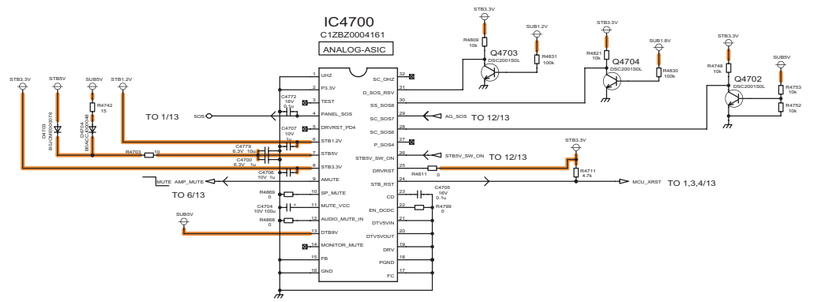
11.7. A-Board (6/13) Schematic Diagram

⚠ A-BOARD TXN/A10QBMS (6/13)



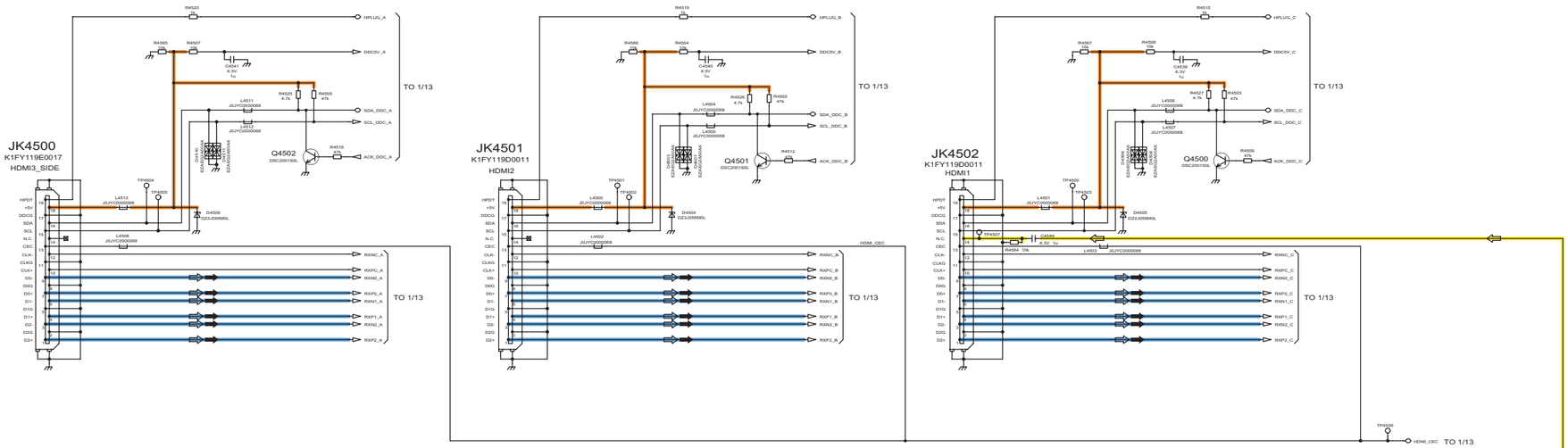
11.8. A-Board (7/13) Schematic Diagram

⚠ A-BOARD TXN/A10QBMS (7/13)



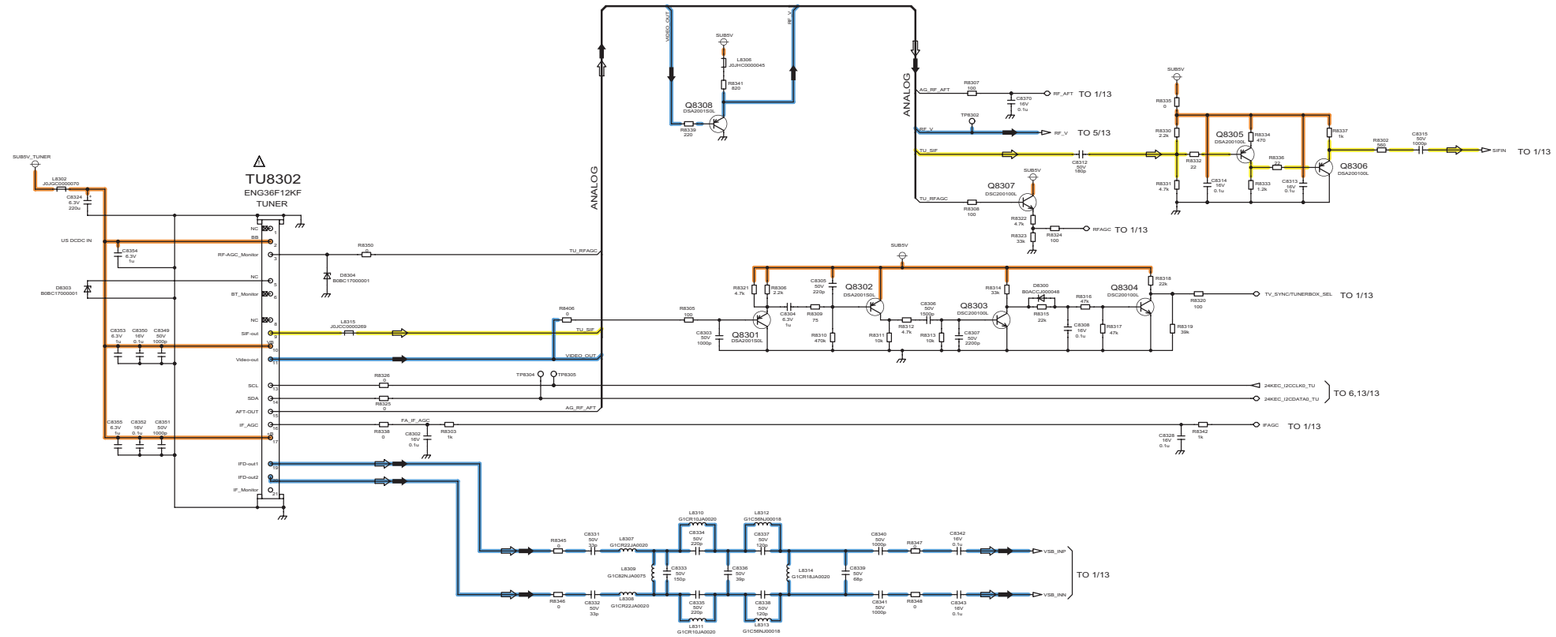
11.9. A-Board (8/13) Schematic Diagram

A-BOARD TXN/A10QBMS (8/13)



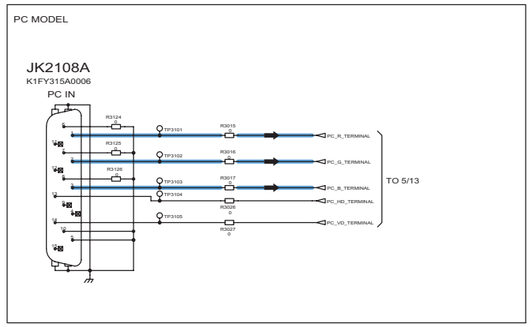
11.10. A-Board (9/13) Schematic Diagram

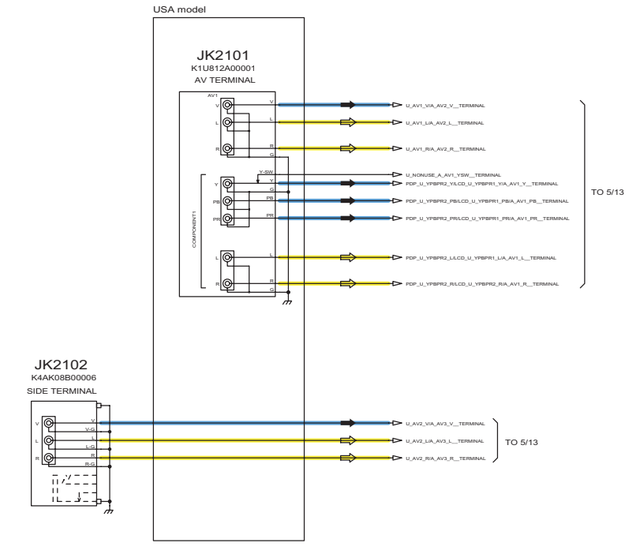
⚠ A-BOARD TXN/A10QBMS (9/13)

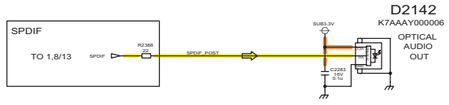


11.11. A-Board (10/13) Schematic Diagram

⚠ A-BOARD TXN/A10QBMS (10/13)



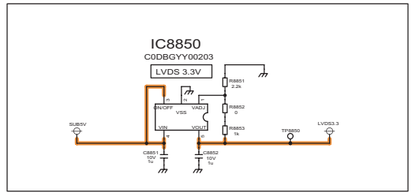


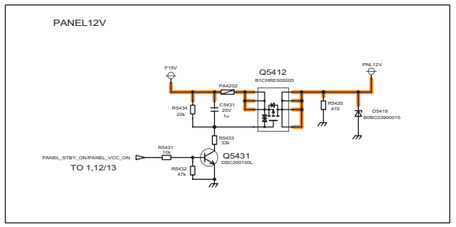


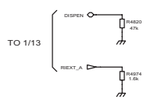
82 83 84 85 86 87 88 89 90

11.12. A-Board (11/13) Schematic Diagram

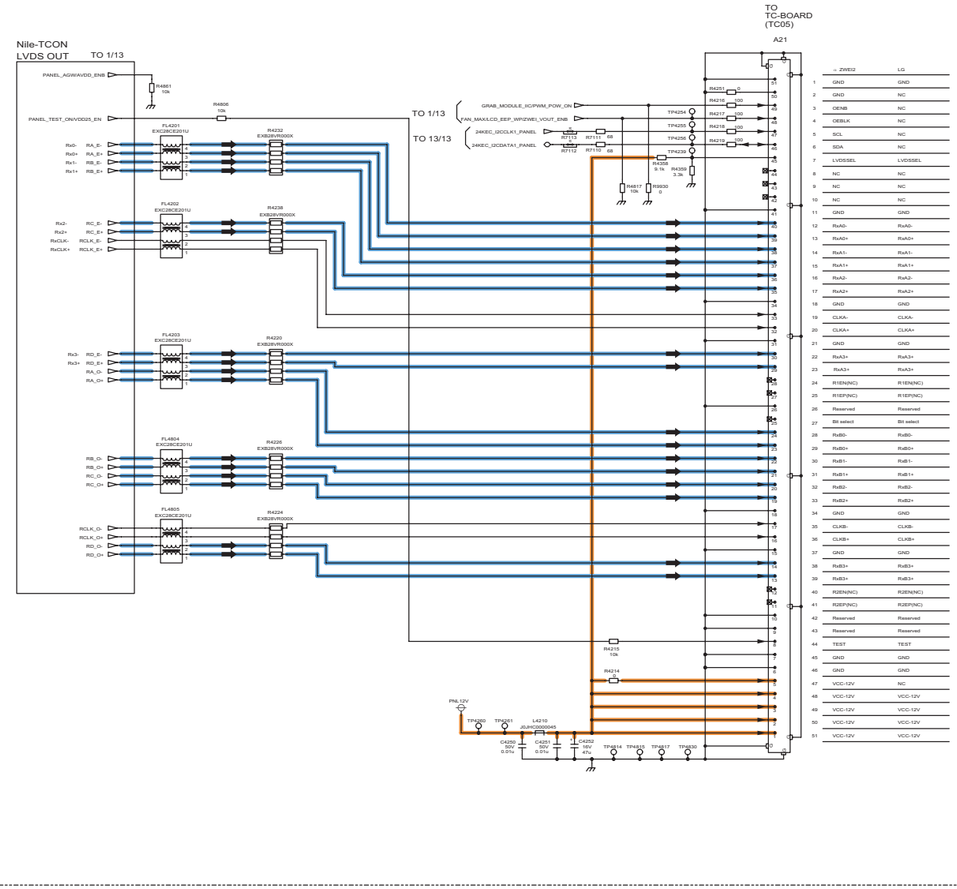
⚠ A-BOARD TXN/A10QBMS (11/13)



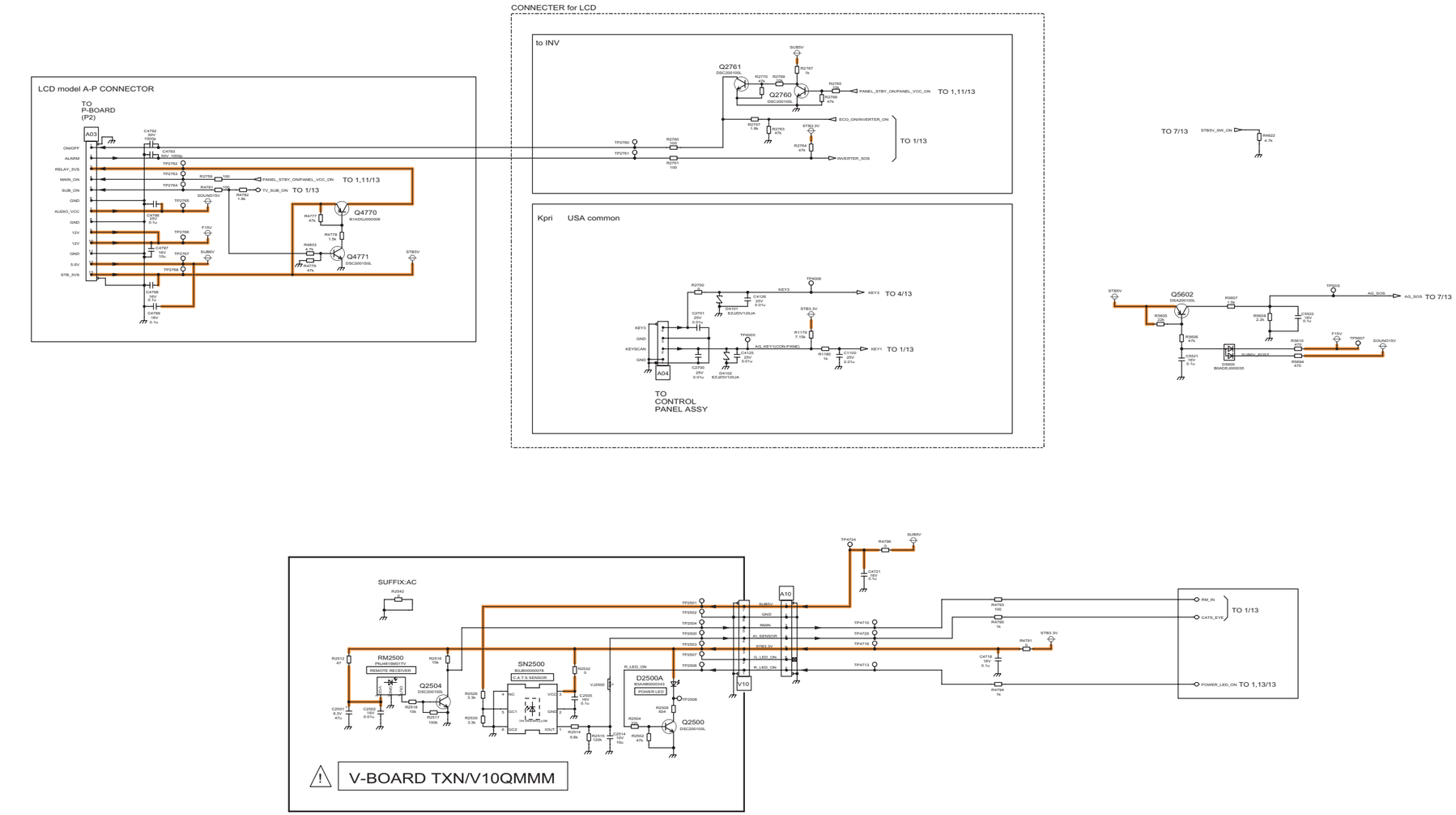




LVDS

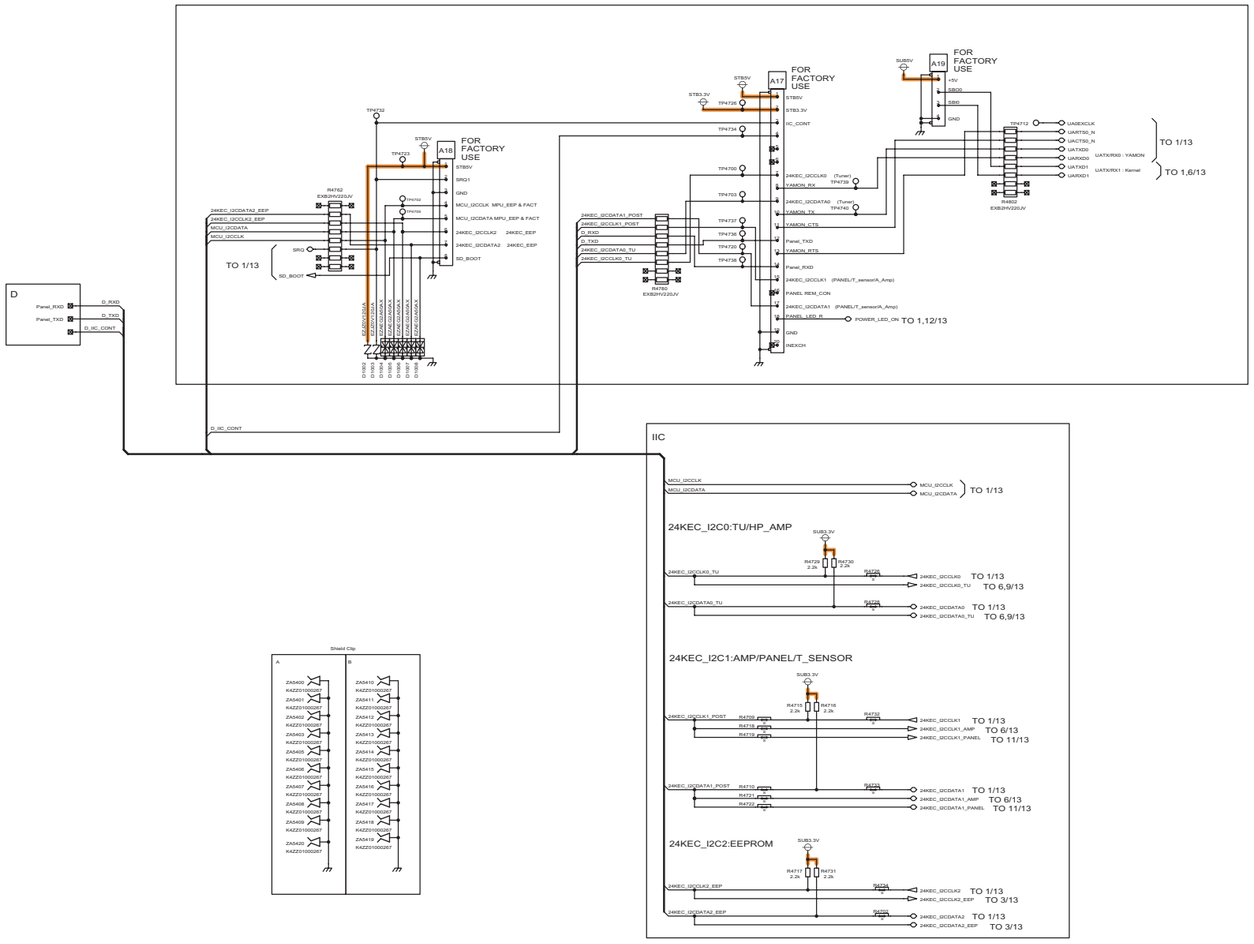


11.13. A-Board (12/13) and V-Board Schematic Diagram



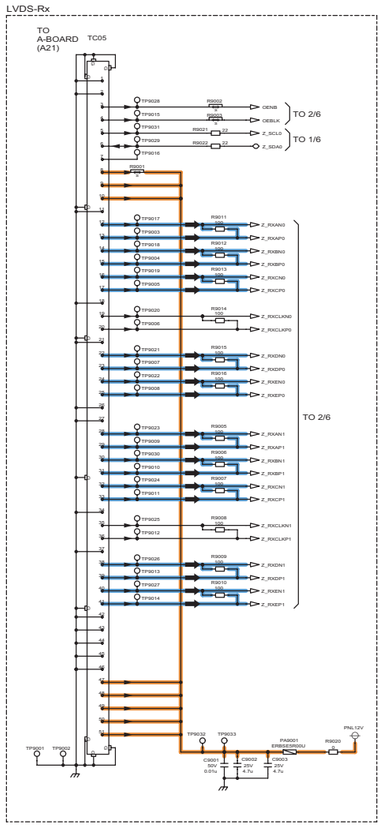
11.14. A-Board (13/13) Schematic Diagram

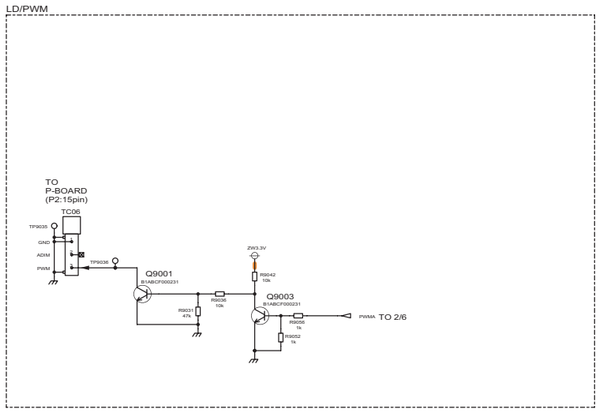
⚠ A-BOARD TXN/A10QBMS (13/13)



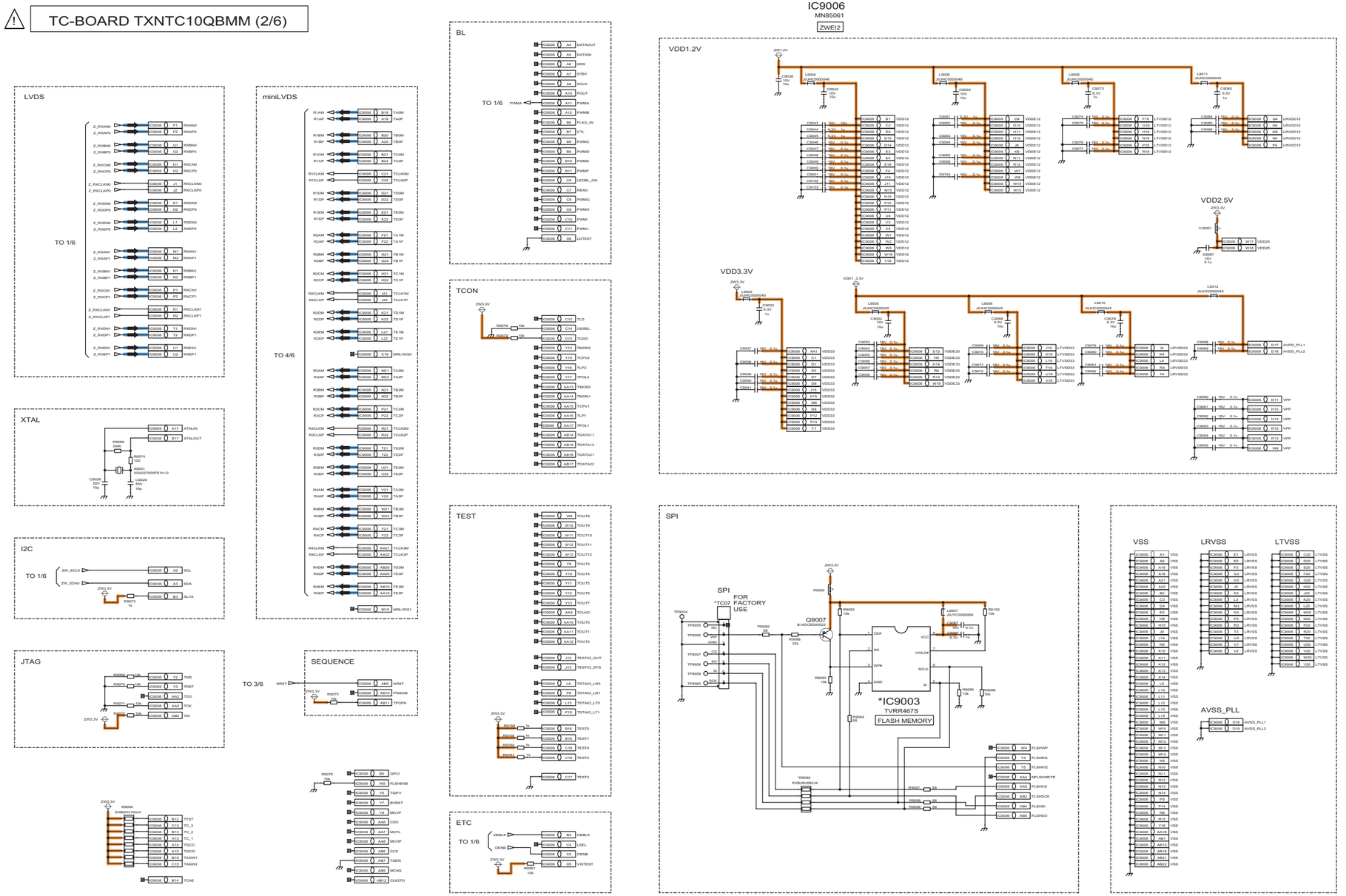
11.15. TC-Board (1/6) Schematic Diagram

TC-BOARD TXNTC10QBMM (1/6) CONNECTOR



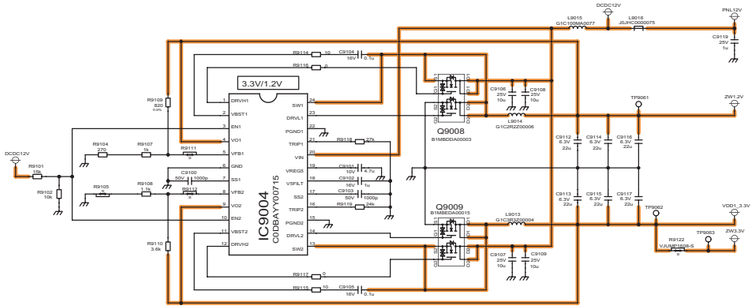


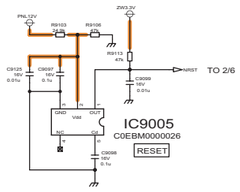
11.16. TC-Board (2/6) Schematic Diagram

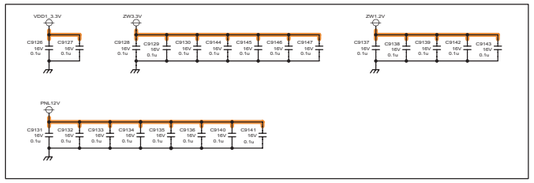


11.17. TC-Board (3/6) Schematic Diagram

⚠ TC-BOARD TXNTC10QBMM (3/6)



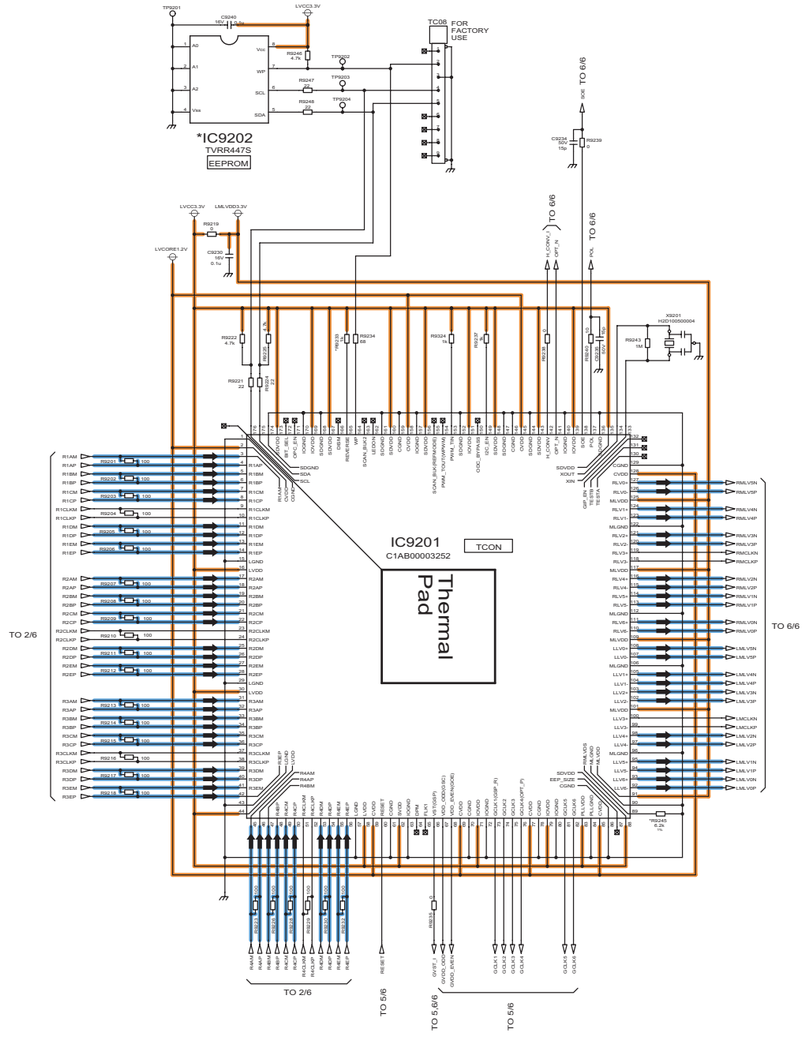


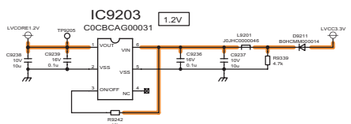


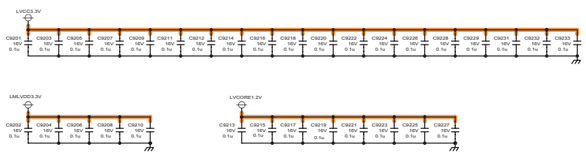
19 20 21 22 23 24 25 26 27

11.18. TC-Board (4/6) Schematic Diagram

⚠ TC-BOARD TXNTC10QBMM (4/6)

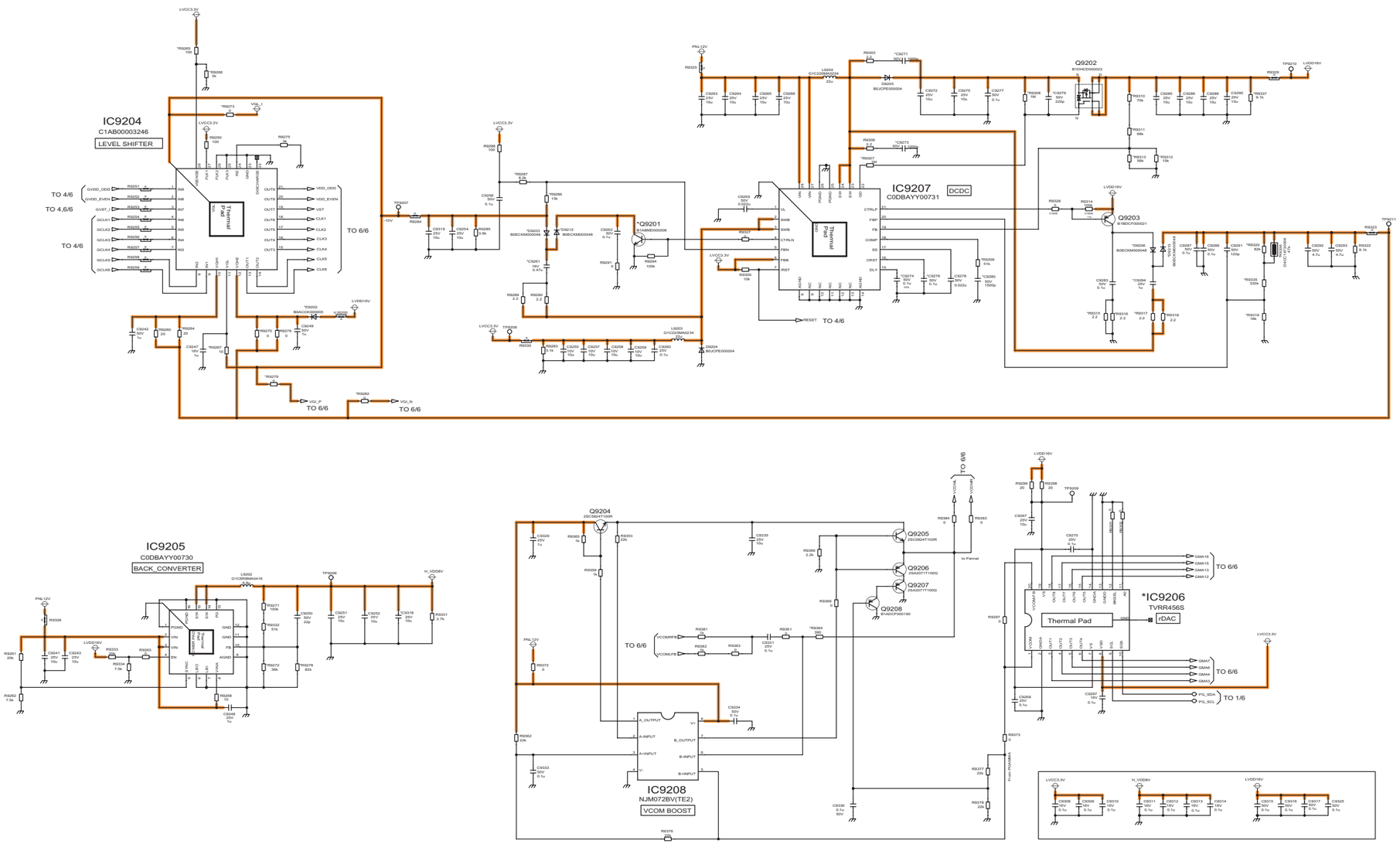






11.19. TC-Board (5/6) Schematic Diagram

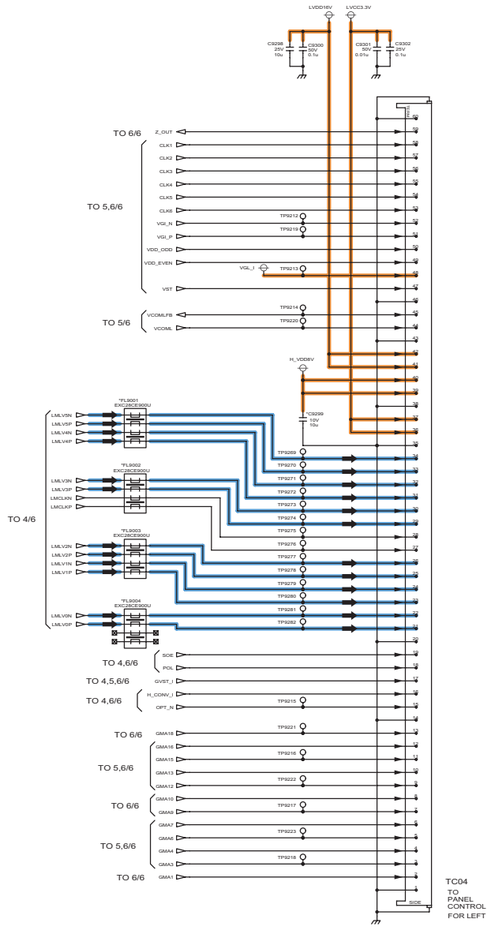
⚠ TC-BOARD TXNTC10QBMM (5/6)

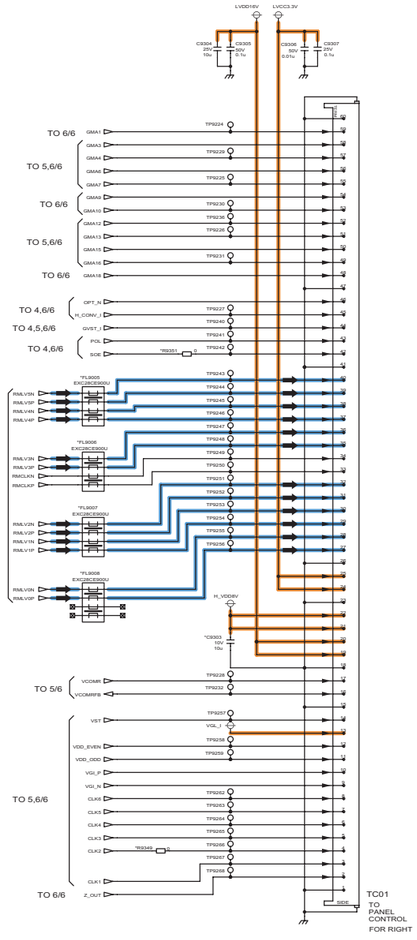


37	38	39	40	41	42	43	44	45

11.20. TC-Board (6/6) Schematic Diagram

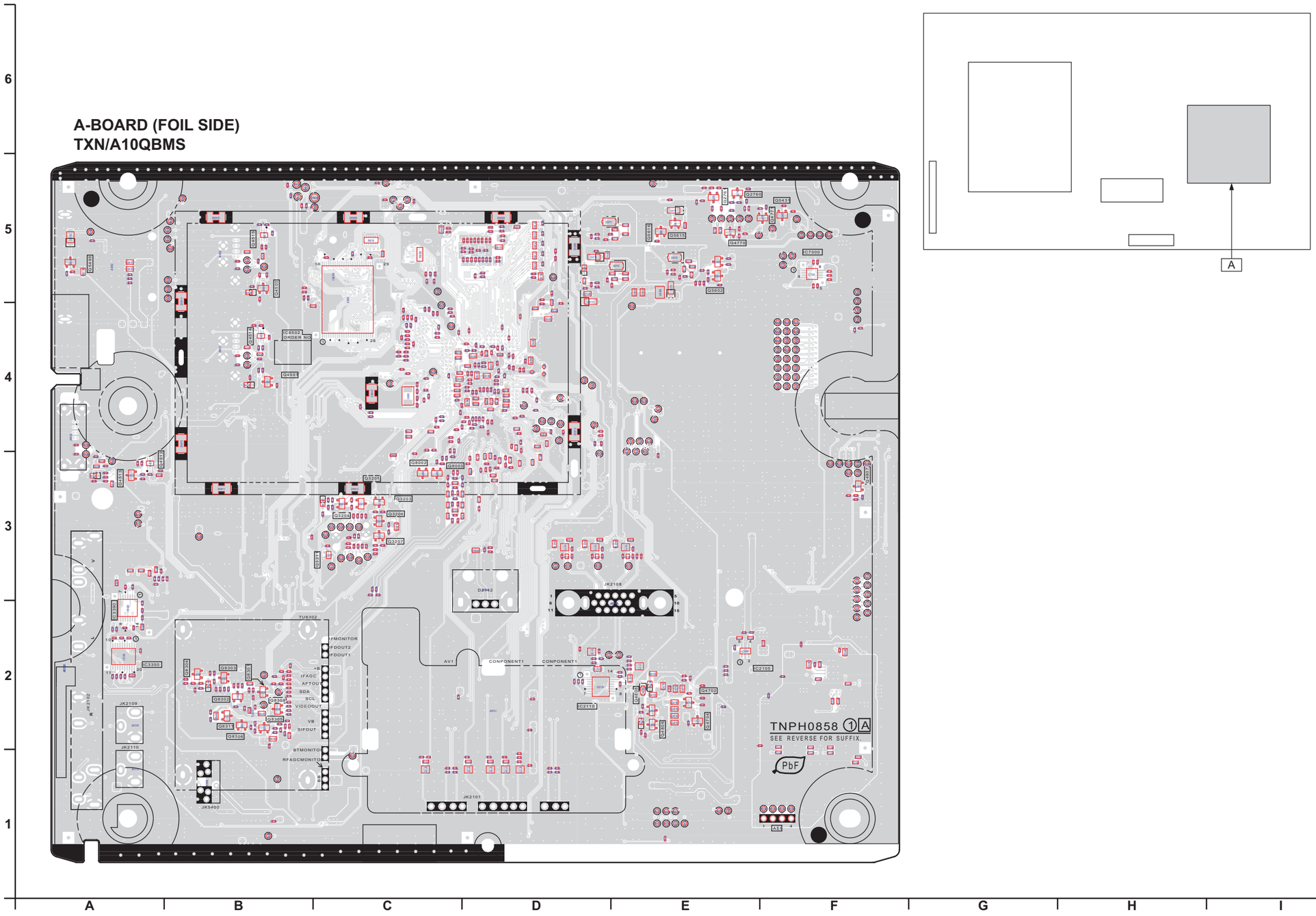
TC-BOARD TXNTC10QBMM (6/6)



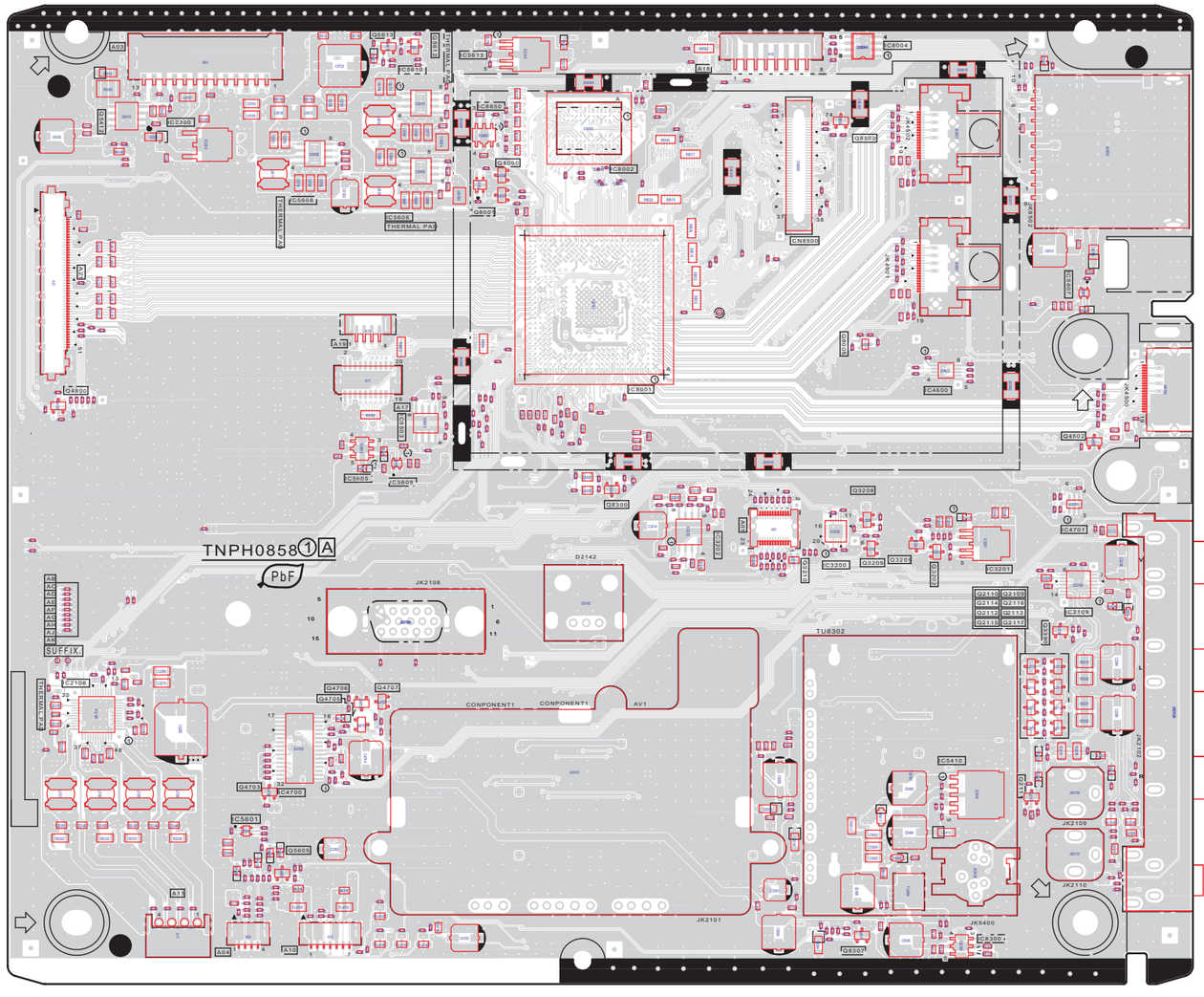


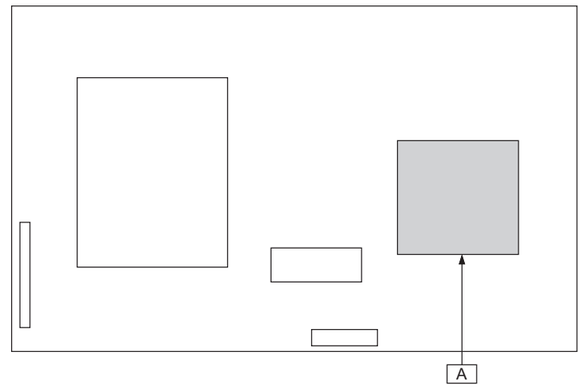
12 Printed Circuit Board

12.1. A-Board

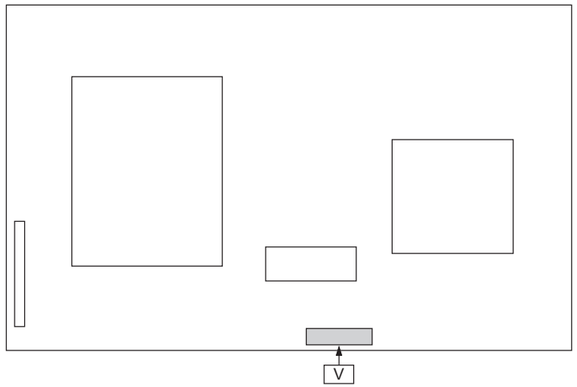


A-BOARD (COMPONENT SIDE)
TXN/A10QBMS

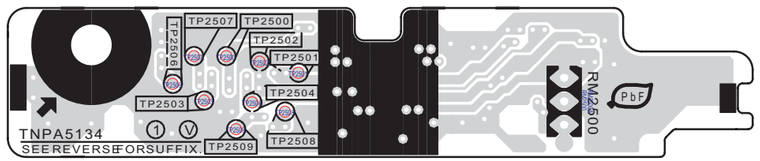




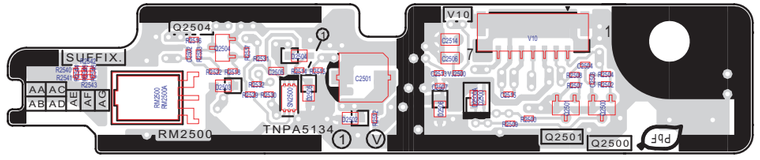
12.2. V-Board



V-BOARD (FOIL SIDE)
TXN/V10QMMM

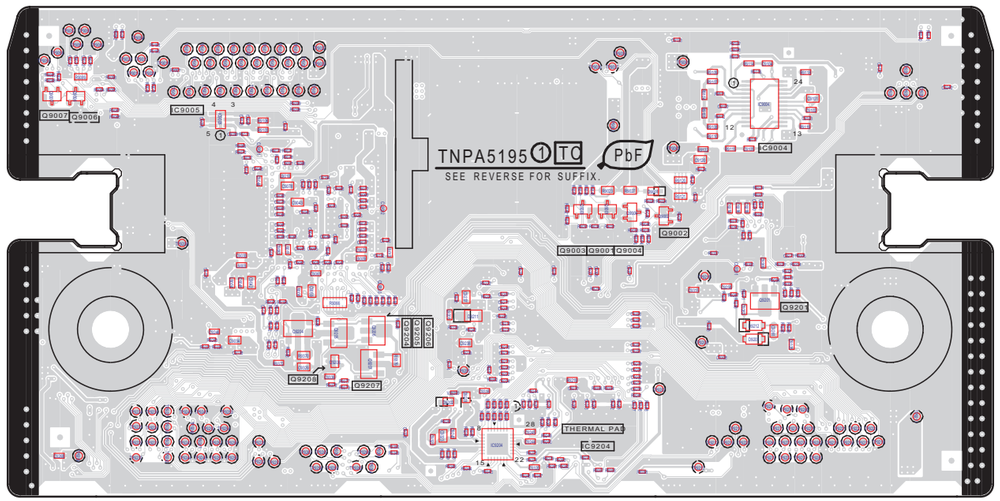


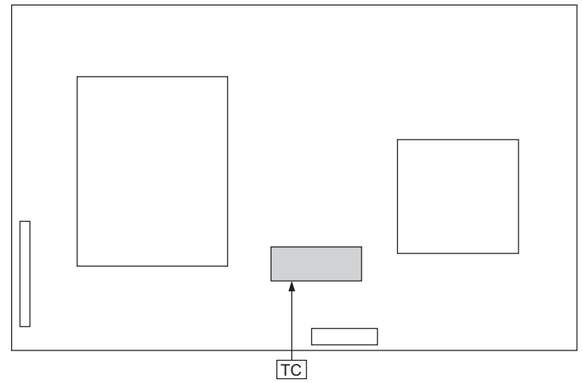
V-BOARD (COMPONENT SIDE)
TXN/V10QMMM



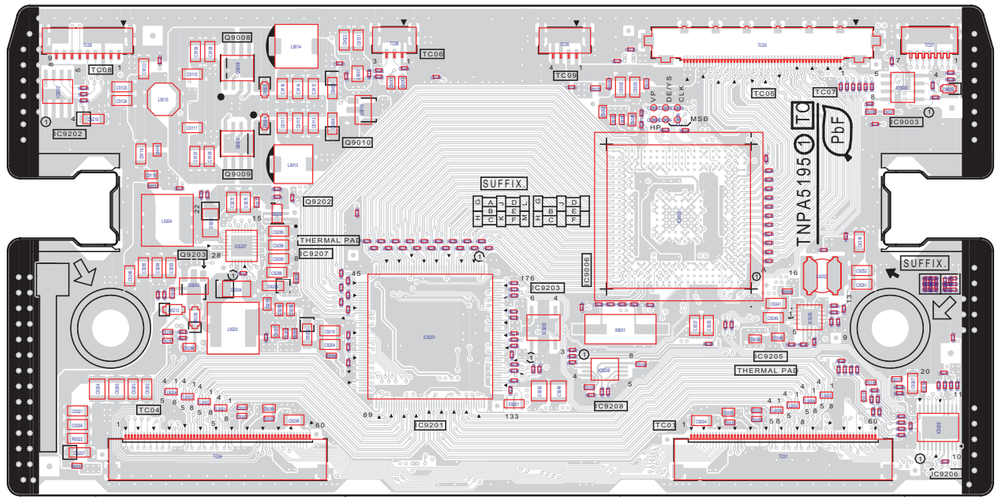
12.3. TC-Board

TC-BOARD (FOIL SIDE)
TXNTC10QBMM





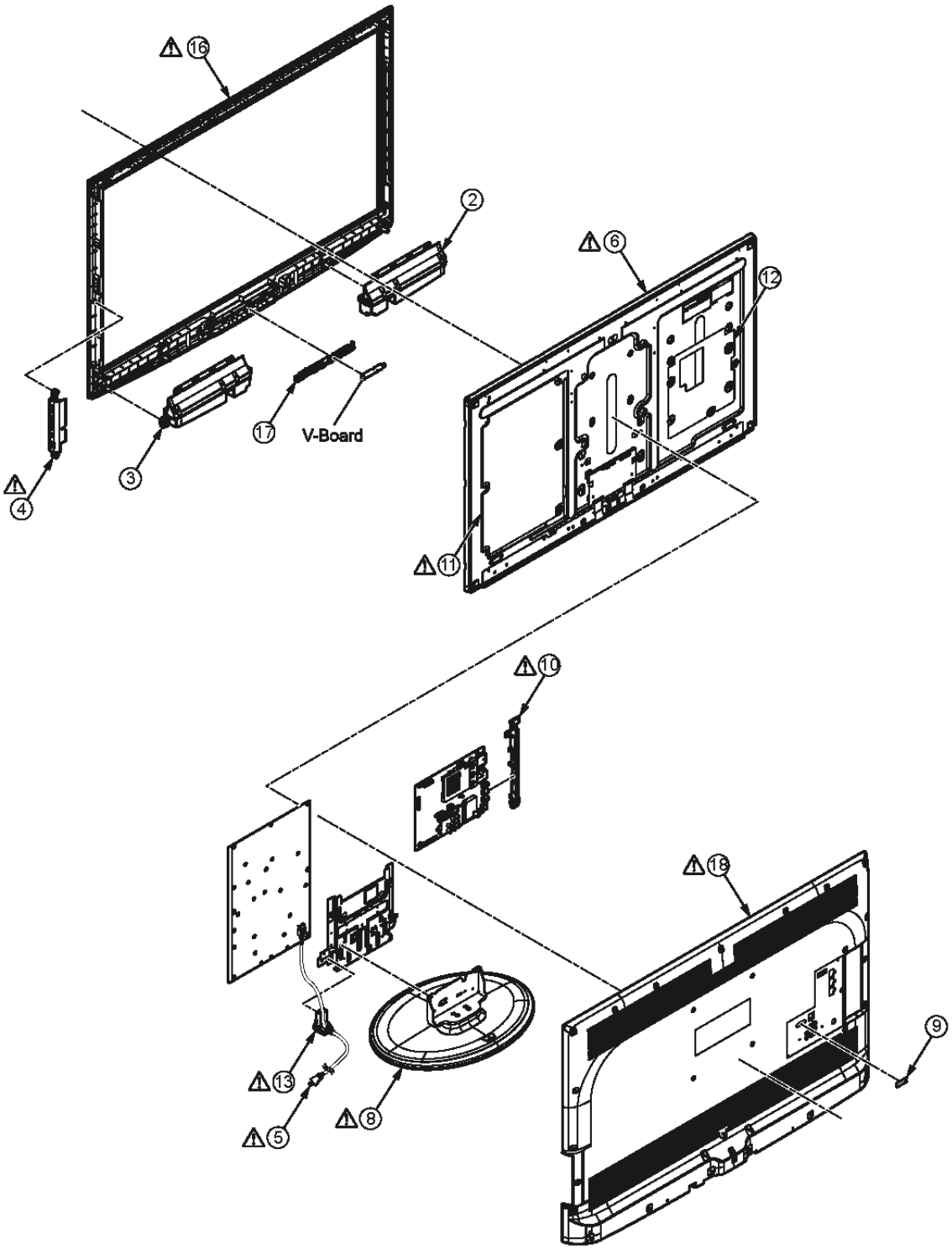
TC-BOARD (COMPONENT SIDE)
TXNTC10QBMM



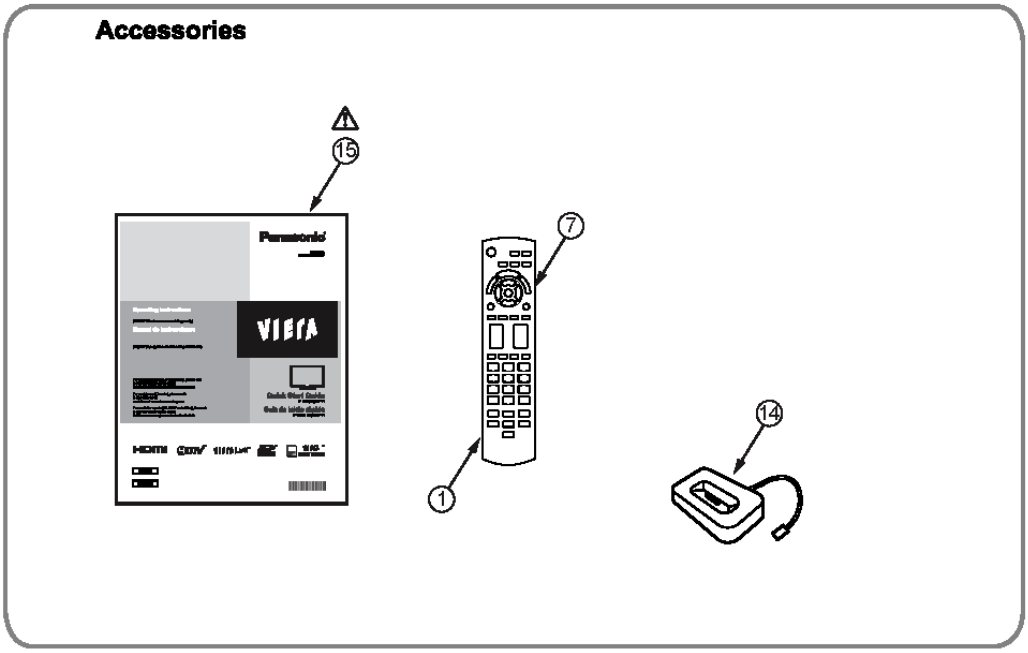
13 Exploded View and Replacement Parts List

13.1. Exploded View and Mechanical Replacement Parts List

13.1.1. Exploded View



13.1.2. Accessories



13.1.3. Mechanical Replacement Parts List

Note: All parts except parts mentioned [PAVCA] in the Remarks column are supplied by AVC-CSPC.
Parts mentioned [PAVCA] are supplied by PAVCA.

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	10030-0047500	BATTERY COVER	1	PAVCA
	2	EAB1428AL	SPEAKER _UNIT-L	1	PAVCA
	3	EAB1428AR	SPEAKER _UNIT-R	1	PAVCA
		J0KG00000011	FERRITE CORE	1	
⚠	4	K0RB00700017	CONTROL_PANEL_ASSY	1	CIRCUIT BOARD&PANEL PAVCA
		K1PY51Y00044	LVDS CABLE	1	PAVCA
⚠	5	K2CB2YY00024	AC CORD	1	PAVCA
⚠	6	L5EDDAT00005	LCD PANEL	1	PAVCA
	7	N2QAYB000485	REMOTE CONTROLLER	1	PAVCA
⚠	8	TBLX0164	PEDESTAL_ASSY	1	PAVCA
		TEWF091	AL-PET TAPE W15*L80	3	PAVCA
		TEWF178	AL-PET TAPE W15*L20	1	PAVCA
		THEL047J	SCREW(HDMI:2)	2	
	9	TKK2AA7901	COVER (ADJ. WINDOW)	1	PAVCA
⚠	10	TKP2AA24701	SIDE_AV_BRACKET	1	PAVCA
		TMK2AA01093	FELT(T0.7*80*20)PANEL	1	PAVCA
		TMK2AA01193	FELT(290*15*T0.7)METAL_SIDE_AV	1	PAVCA
⚠	11	TMK2AX125	BARRIER_P_BOARD	1	PAVCA
	12	TMK2AX126	BARRIER_A_BOARD	1	PAVCA
		TMK2AX127	BARRIER_T-CON	1	PAVCA
		TMM23416	SPACER	1	
		TMME260	CLAMPER	1	
		TMME268	CLAMPER	2	
		TMME355	CLAMPER(STICK)	2	
		TMME367	BAND	1	
⚠	13	TMW2AX033	AC_CORD_BRACKET	1	PAVCA
	14	TNM2AX0013	IPOD CRADLE	1	PAVCA
⚠	15	TQB2AA0582	INSTRUCTION BOOK	1	PAVCA
		TSXM104	CABLE (TCON-PANEL)	2	PAVCA
⚠	16	TTYA1287-2	CABINET ASSY	1	PAVCA
		TXFBL010QBM	ASSY, STAND ACCESSORY	1	PAVCA
	17	TXFKK010QBM	LED_PANEL	1	PAVCA
⚠	18	TXFKU23XSER	REAR COVER	1	PAVCA
		TXJA110QBM	SPEAKER LEAD (A11-SP)	1	PAVCA
		XSS5+15FNK	SCREW (SUP-BRA)	4	
		XTB4+15JFJ	SCREW	18	
		XTB4+15JFJK	SCREW	20	
		XTV3+10GFJK	SCREW(REAR BRKT2)	4	
		XTW3+10TFJ	SCREW	1	

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		XYN3+F6FJ	SCREW(A4/T2/P5/SIDE BRA1)	12	
		XYN4+F12FJK	SCREW	4	
		XYN4+F6FJ	SCREW(P1/BTM4)	5	

13.2. Electrical Replacement Parts List

13.2.1. Replacement Parts List Notes

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

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

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

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

13.2.2. Electrical Replacement Parts List

Note: All parts except parts mentioned [PAVCA] in the Remarks column are supplied by AVC-CSPC. Parts mentioned [PAVCA] are supplied by PAVCA.

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	PCB	N0AE4JJ00008	CIRCUIT BOARD P	1	PAVCA
⚠	PCB	TXN/A10QBMS	CIRCUIT BOARD A	1	RTL (PAVCA)
⚠	PCB	TXN/V10QMMM	CIRCUIT BOARD V	1	RTL (PAVCA)
⚠	PCB	TXNTC10QBMM	CIRCUIT BOARD TC	1	RTL (PAVCA)
	A01	K1FY124D0001	12P CONNECTOR	1	PAVCA
	A03	K1KA13BA0270	13P CONNECTOR	1	PAVCA
	A04	K1KY04AA0719	CONNECTOR	1	
	A10	K1KY07AA0719	7P CONNECTOR	1	
	A11	K1KA04BA0055	4P CONNECTOR	1	
	A17	K1KA20AA0009	20P CONNECTOR	1	
	A18	K1KA08AA0714	8P CONNECTOR	1	
	A19	K1KA04AA0104	4P CONNECTOR	1	
	A21	K1KB51BA0074	CONNECTOR	1	
	C1100	F1G1E103A123	C 0.010UF, K, 25V	1	
	C2103	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C2107-09	ECJ1VB0J105K	C 1UF, K, 6.3V	3	
	C2111	F1G1E103A123	C 0.010UF, K, 25V	1	
	C2197	F1G1E103A123	C 0.010UF, K, 25V	1	
	C2198-02	ECJ1VB0J105K	C 1UF, K, 6.3V	5	
	C2204	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C2207-12	F1H1A225A051	C 22UF, 50V	6	
	C2213,14	ECJ1VB0J105K	C 1UF, K, 6.3V	2	
	C2220,21	F1G1C104A116	C 0.10UF, K, 16V	2	
	C2222	F1J1A106A087	C 0.010UF, K, 10V	1	
	C2223,24	F1G1E472A123	C 4200UF, Z, 25V	2	
	C2225,26	F1G1C473A081	C 0.047UF, K, 16V	2	
	C2227	F1J1A106A087	C 0.010UF, K, 10V	1	
	C2229	F1G1H222A730	C 2200UF, 50V	1	
	C2230	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2232	F1H1E104A129	C 0.1UF, 25V	1	
	C2234	F1H1E104A129	C 0.1UF, 25V	1	
	C2237,38	F1J1E105A231	C 1 UF 25V	2	
	C2240-43	F1H1E333A129	C 0.033UF, 25V	4	
	C2244,45	F1J1H474A757	C 0.47UF, 50V	2	
	C2246,47	F1J1H104A835	C 0.10UF, 50V	2	
	C2248,49	F1H1H223A970	C 0.22UF, K, 50V	2	
	C2250,51	F1J1H104A835	C 0.10UF, 50V	2	
	C2252,53	F1H1H223A970	C 0.22UF, K, 50V	2	
	C2254,55	F1H1E104A129	C 0.1UF, 25V	2	
	C2256-59	F1H1H223A970	C 0.22UF, K, 50V	4	
	C2260-63	F1G1H102A730	C 1000UF, 50V	4	
	C2264	F1H1E104A129	C 0.1UF, 25V	1	
	C2265	EEEFG1E471P	E 470UF, 25V	1	
	C2266	F1K1E106A136	C 10UF, Z, 25V	1	
	C2269	F1J1A475A087	C 4.7UF, K, 10V	1	
	C2272	F1G1E103A123	C 0.010UF, K, 25V	1	
	C2279	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2283	F1G1C104A116	C 0.10UF, K, 16V	1	
	C2296,97	F1H1A225A051	C 22UF, 50V	2	
	C2303	F1G1C104A077	C 0.10UF, K, 16V	1	
	C2304	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C2307	ECJ1VB0J105K	C 1UF, K, 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C2309,10	F1H1A225A051	C 22UF, 50V	2	
	C2501	F2G0J470A019	E 47UF 6.3V	1	
	C2502	F1G1C103A116	C 0.010UF, K, 16V	1	
	C2505	F1H1C104A143	C 0.1UF, K, 16V	1	
	C2514	F1J1A106A087	C 0.010UF, K, 10V	1	
	C2700,01	F1G1E103A123	C 0.010UF, K, 25V	2	
	C3200	F1G1C104A116	C 0.10UF, K, 16V	1	
	C3201	F1G1E103A123	C 0.010UF, K, 25V	1	
	C3203	F1J1A106A087	C 0.010UF, K, 10V	1	
	C3204	F1G1E103A123	C 0.010UF, K, 25V	1	
	C3205	F1J1E105A231	C 1 UF 25V	1	
	C3207	F1G1E103A123	C 0.010UF, K, 25V	1	
	C3210	F1G1H101A731	C 100PF, K, 50V	1	
	C3211	F1G1H330A731	C 33UF, 50V	1	
	C3212	F1J1A106A087	C 0.010UF, K, 10V	1	
	C3213	F1G1E103A123	C 0.010UF, K, 25V	1	
	C3214	F2G0J470A019	E 47UF 6.3V	1	
	C3215	F1J1C475A170	C 4.7UF, K, 16V	1	
	C3216,17	F1J1A106A087	C 0.010UF, K, 10V	2	
	C3218	F1G1H101A731	C 100PF, K, 50V	1	
	C3219	F1G1H330A731	C 33UF, 50V	1	
	C3391,92	F2G0J220A019	E 100UF 6.3V	2	
	C4125,26	F1G1E103A123	C 0.010UF, K, 25V	2	
	C4250,51	F1H1H103A970	C 0.001UF, K, 50V	2	
	C4252	F2H1C470A009	E 47UF 16V	1	
	C4539-41	ECJ1VB0J105K	C 1UF, K, 6.3V	3	
	C4546	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C4549	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C4700	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C4704	EEEHB1C101P	C 100PF, J, 16V	1	
	C4705	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4706,07	ECJ1VB1A105K	C 0.01UF, Z, 10V	2	
	C4718	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4721	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4772	F1G1C104A116	C 0.10UF, K, 16V	1	
	C4779	F1J0J106A004	C 0.010UF, K, 16V	1	
	C4792,93	F1H1H102A971	C 1000PF, K, 50V	2	
	C4796	F1H1E104A129	C 0.1UF, 25V	1	
	C4797	F1K1C106A126	C 10UF, 16V	1	
	C4798,99	F1G1C104A116	C 0.10UF, K, 16V	2	
	C5431	F1J1E105A231	C 1 UF 25V	1	
	C5521,22	F1G1C104A116	C 0.10UF, K, 16V	2	
	C5652	F1G1H102A730	C 1000UF, 50V	1	
	C5663,64	F1J1A106A087	C 0.010UF, K, 10V	2	
	C5667	F1G1H101A731	C 100PF, K, 50V	1	
	C5689,90	F1K0J226A008	C 22UF, K,6.3V	2	
	C5692	F1K1E106A136	C 10UF, Z, 25V	1	
	C5694	F1H1E104A129	C 0.1UF, 25V	1	
	C5695,96	F1G1E103A123	C 0.010UF, K, 25V	2	
	C5700,01	F1H0J475A041	C 4.7UF, K, 16V	2	
	C5702,03	ECJ1VB1A105K	C 0.01UF, Z, 10V	2	
	C5704,05	F1K1E106A136	C 10UF, Z, 25V	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C5706	F1G1E103A123	C 0.010UF, K, 25V	1	
	C5707	F1G1C104A116	C 0.10UF, K, 16V	1	
	C5708,09	F1K0J226A008	C 22UF, K,6.3V	2	
	C5711	F1K1E106A136	C 10UF, Z, 25V	1	
	C5713	F1H1E104A129	C 0.1UF, 25V	1	
	C5714	F1G1C153A081	C 0.015UF, K, 16V	1	
	C5715	F1G1E822A123	C 8200UF, Z, 25V	1	
	C5719,20	F1K0J226A008	C 22UF, K,6.3V	2	
	C5722	F1K1E106A136	C 10UF, Z, 25V	1	
	C5724	F1H1E104A129	C 0.1UF, 25V	1	
	C5725,26	F1G1C153A081	C 0.015UF, K, 16V	2	
	C5730,31	F1K1E106A136	C 10UF, Z, 25V	2	
	C5733	F2H1E470A007	E 47UF, 25V	1	
	C5734	F1J1E105A231	C 1 UF 25V	1	
	C5736-39	ECJ1VB0J105K	C 1UF, K, 6.3V	4	
	C5764,65	ECJ1VB1A105K	C 0.01UF, Z, 10V	2	
	C5771	F1H1E333A129	C 0.033UF, 25V	1	
	C5776,77	F1J1A106A087	C 0.010UF, K, 10V	2	
	C5778-80	F1G1H102A730	C 1000UF, 50V	3	
	C8001,02	ECJ1VB0J105K	C 1UF, K, 6.3V	2	
	C8003-06	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8007	F1G1H6R0A732	C 6.0UF, 50V	1	PAVCA
	C8008	F1G1H7R0A732	C 7.0UF, 50V	1	
	C8009	F1J1A475A087	C 4.7UF, K, 10V	1	
	C8011-14	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8015	F1G1C151A117	C 150UF, K, 16V	1	PAVCA
	C8016-21	F1G1C104A116	C 0.10UF, K, 16V	6	
	C8022	F1G1C103A116	C 0.010UF, K, 16V	1	
	C8023	F1G1H5R0A732	C 5.0PF, K, 50V	1	
	C8024	F1G1E103A123	C 0.010UF, K, 25V	1	
	C8025	F1G1C5R0A118	C 5.0UF, K, 16V	1	PAVCA
	C8026	F1G1E103A123	C 0.010UF, K, 25V	1	
	C8027,28	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8029	F1G1E153A103	C 0.015UF, Z, 25V	1	PAVCA
	C8030	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8033	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8034	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8035	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8036-38	F1G1C104A116	C 0.10UF, K, 16V	3	
	C8039	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8040	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8041	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8042	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8043-45	F1G1A105A047	C 1UF, K, 10V	3	
	C8046	F1J0G2260001	C 0.001UF, 6.3V	1	
	C8047	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8048	F1G1H102A730	C 1000UF, 50V	1	
	C8049	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8050	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8051	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8053,54	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8056	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8058	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8059	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8060	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8061	F1G1H102A730	C 1000UF, 50V	1	
	C8062	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8063	F1G1H102A730	C 1000UF, 50V	1	
	C8064	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8065	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8067,68	ECJ1VB0J105K	C 1UF, K, 6.3V	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C8069	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8070	F1G1H102A730	C 1000UF, 50V	1	
	C8071	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8073	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8074	F1G1H102A730	C 1000UF, 50V	1	
	C8075	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8078-81	ECJ1VB0J105K	C 1UF, K, 6.3V	4	
	C8082	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8097	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8101	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8102	F1G1H5R0A732	C 5.0PF, K, 50V	1	
	C8104,05	F1G1H102A730	C 1000UF, 50V	2	
	C8110	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8111	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8112	F1G1H102A730	C 1000UF, 50V	1	
	C8113	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8116	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8120	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8121	F1G1H102A730	C 1000UF, 50V	1	
	C8127	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8130	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8131	F1G1H102A730	C 1000UF, 50V	1	
	C8132	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8133	F1G1H102A730	C 1000UF, 50V	1	
	C8136	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8139	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8140	F1G1H102A730	C 1000UF, 50V	1	
	C8141	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8143,44	F1G1A105A047	C 1UF, K, 10V	2	
	C8145	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8146	F1G1H102A730	C 1000UF, 50V	1	
	C8147	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8148	F1G1H102A730	C 1000UF, 50V	1	
	C8302	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8303	F1G1H102A730	C 1000UF, 50V	1	
	C8304	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8305	F1G1H221A731	C 220UF, 50V	1	
	C8306	F1G1H152A730	C 1500UF, 50V	1	
	C8307	F1G1H222A730	C 2200UF, 50V	1	
	C8308	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8312	F1G1H181A731	C 180UF, 50V	1	
	C8313,14	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8315	F1G1H102A730	C 1000UF, 50V	1	
	C8324	EEEHB0J221UP	C 220PF, J, 6.3V	1	
	C8328	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8331,32	F1G1H330A731	C 33UF, 50V	2	
	C8333	F1G1H151A731	C 150PF, K, 50V	1	
	C8334,35	F1G1H221A731	C 220UF, 50V	2	
	C8336	F1G1H390A731	C 39UF, 50V	1	
	C8337,38	F1G1H121A731	C 120PF, K, 50V	2	
	C8339	F1G1H680A731	C 68UF, 50V	1	
	C8340,41	F1G1H102A730	C 1000UF, 50V	2	
	C8342,43	F1G1C104A116	C 0.10UF, K, 16V	2	
	C8349	F1G1H102A730	C 1000UF, 50V	1	
	C8350	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8351	F1G1H102A730	C 1000UF, 50V	1	
	C8352	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8353-55	ECJ1VB0J105K	C 1UF, K, 6.3V	3	
	C8370	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8501	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8503-06	F1G1C104A116	C 0.10UF, K, 16V	4	
	C8512	F2G1C470A022	E 47UF, 16V	1	
	C8513	F1G1C104A116	C 0.10UF, K, 16V	1	
	C8514	F1G1E103A123	C 0.010UF, K, 25V	1	
	C8515	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8517	F1J1A106A087	C 0.010UF, K, 10V	1	
	C8519	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C8520	F1G1C104A116	C 0.10UF, K, 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C8851,52	ECJ1VB1A105K	C 0.01UF, Z, 10V	2	
	C9001	F1H1H103A970	C 0.001UF, K, 50V	1	
	C9002,03	F1K1E4750002	C 4.7UF, Z, 25V	2	
	C9028	F1G1H150A731	C 15UF, 50V	1	
	C9029	F1G1H180A731	C 18UF, 50V	1	
	C9033	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C9036	F1J1A106A087	C 0.010UF, K, 10V	1	
	C9037-41	F1G1C104A116	C 0.10UF, K, 16V	5	
	C9042,43	F1J1A106A087	C 0.010UF, K, 10V	2	
	C9044,45	ECJ1VB0J105K	C 1UF, K, 6.3V	2	
	C9046-51	F1G1C104A116	C 0.10UF, K, 16V	6	
	C9052	F1J1A106A087	C 0.010UF, K, 10V	1	
	C9053-58	F1G1C104A116	C 0.10UF, K, 16V	6	
	C9059	F1J1A106A087	C 0.010UF, K, 10V	1	
	C9060,61	ECJ1VB0J105K	C 1UF, K, 6.3V	2	
	C9062-67	F1G1C104A116	C 0.10UF, K, 16V	6	
	C9068	F1J0J106A004	C 0.010UF, K, 16V	1	
	C9069-72	F1G1C104A116	C 0.10UF, K, 16V	4	
	C9073	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C9074-77	F1G1C104A116	C 0.10UF, K, 16V	4	
	C9078	F1J0J106A004	C 0.010UF, K, 16V	1	
	C9079-82	F1G1C104A116	C 0.10UF, K, 16V	4	
	C9083	ECJ1VB0J105K	C 1UF, K, 6.3V	1	
	C9084-95	F1G1C104A116	C 0.10UF, K, 16V	12	
	C9097,98	F1G1C104A116	C 0.10UF, K, 16V	2	
	C9099	F1G1C103A116	C 0.010UF, K, 16V	1	
	C9100	F1G1H102A730	C 1000UF, 50V	1	
	C9101	F1J1A475A087	C 4.7UF, K, 10V	1	
	C9102	F1H1C105A145	C 0.01UF, K, 16V	1	
	C9103	F1G1H102A730	C 1000UF, 50V	1	
	C9104,05	F1H1C104A143	C 0.1UF, K, 16V	2	
	C9106-09	F1K1E106A136	C 10UF, Z, 25V	4	
	C9112-17	F1K0J226A008	C 22UF, K,6.3V	6	
	C9119	F1J1E105A231	C 1 UF 25V	1	
	C9125	F1G1C103A116	C 0.010UF, K, 16V	1	
	C9126-47	F1G1C104A116	C 0.10UF, K, 16V	22	
	C9152-54	F1G1C104A116	C 0.10UF, K, 16V	3	
	C9201-33	F1G1C104A116	C 0.10UF, K, 16V	33	
	C9234,35	F1G1H150A731	C 15UF, 50V	2	
	C9236	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9237,38	F1J1A106A087	C 0.010UF, K, 10V	2	
	C9239,40	F1G1C104A116	C 0.10UF, K, 16V	2	
	C9241	F1K1E106A136	C 10UF, Z, 25V	1	
	C9242	F1L1H105A059	C 1UF, Z, 50V	1	PAVCA
	C9243	F1K1E106A136	C 10UF, Z, 25V	1	
	C9247	F1H1C105A145	C 0.01UF, K, 16V	1	
	C9248	F1J1E105A231	C 1 UF 25V	1	
	C9249	F1L1H105A059	C 1UF, Z, 50V	1	PAVCA
	C9250	F1G1H220A731	C 22UF, 50V	1	
	C9251,52	F1K1E106A136	C 10UF, Z, 25V	2	
	C9254	F1K1E106A136	C 10UF, Z, 25V	1	
	C9255	F1J1A106A087	C 0.010UF, K, 10V	1	
	C9256	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9257-59	F1J1A106A087	C 0.010UF, K, 10V	3	
	C9260	F1H1E104A129	C 0.1UF, 25V	1	
	C9261	F1J1C474A104	C 0.47UF, Z, 16V	1	
	C9262	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9263-67	F1K1E106A136	C 10UF, Z, 25V	5	
	C9268	F1H1E104A129	C 0.1UF, 25V	1	
	C9269	F1H1H223A970	C 0.22UF, K, 50V	1	
	C9270	F1H1E104A129	C 0.1UF, 25V	1	
	C9271	F1G1H102A730	C 1000UF, 50V	1	
	C9272	F1K1E106A136	C 10UF, Z, 25V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C9273	F1G1H102A730	C 1000UF, 50V	1	
	C9274	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9275	F1K1E106A136	C 10UF, Z, 25V	1	
	C9276,77	F1H1H104A970	C 0.1UF, K, 50V	2	
	C9278	F1H1H223A970	C 0.22UF, K, 50V	1	
	C9279	F1G1H221A731	C 220UF, 50V	1	
	C9280	F1G1H152A730	C 1500UF, 50V	1	
	C9283	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9284	F1J1E105A231	C 1 UF 25V	1	
	C9285,86	F1K1E106A136	C 10UF, Z, 25V	2	
	C9287	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9288	F1K1E106A136	C 10UF, Z, 25V	1	
	C9289	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9290	F1K1E106A136	C 10UF, Z, 25V	1	
	C9291	F1G1H121A731	C 120PF, K, 50V	1	
	C9292,93	F1K1H475A210	C 4.7UF, Z, 50V	2	PAVCA
	C9297	F1G1C104A116	C 0.10UF, K, 16V	1	
	C9298	F1K1E106A136	C 10UF, Z, 25V	1	
	C9299	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9300	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9301	F1H1H103A970	C 0.001UF, K, 50V	1	
	C9302	F1H1E104A129	C 0.1UF, 25V	1	
	C9303	F1J1A106A043	C 0.010UF, K, 10V	1	
	C9304	F1K1E106A136	C 10UF, Z, 25V	1	
	C9305	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9306	F1H1H103A970	C 0.001UF, K, 50V	1	
	C9307	F1H1E104A129	C 0.1UF, 25V	1	
	C9308-14	F1G1C104A116	C 0.10UF, K, 16V	7	
	C9315-17	F1H1H104A970	C 0.1UF, K, 50V	3	
	C9318,19	F1K1E106A136	C 10UF, Z, 25V	2	
	C9325	F1H1H104A970	C 0.1UF, K, 50V	1	
	C9329	F1J1E105A231	C 1 UF 25V	1	
	C9331	F1H1E104A129	C 0.1UF, 25V	1	
	C9333,34	F1H1H104A970	C 0.1UF, K, 50V	2	
	C9335	F1K1E106A136	C 10UF, Z, 25V	1	
	C9336	F1H1H104A970	C 0.1UF, K, 50V	1	
	D1002,03	EZJZ0V120JA	VARISTOR	2	
	D1004-08	EZAEG2A50AX	ESD SUPPRESSOR	5	
	D2142	K7AAAY000006	PHOTO LINK	1	
	D3201	B0ACCJ000048	DIODE	1	
	D4101,02	EZJZ0V120JA	VARISTOR	2	
	D4503	EZAEG2A50AX	ESD SUPPRESSOR	1	
	D4504,05	DZ2J056M0L	ZENER DIODE	2	
	D4506-08	EZAEG2A50AX	ESD SUPPRESSOR	3	
	D4509	DZ2J056M0L	ZENER DIODE	1	
	D4510,11	EZAEG2A50AX	ESD SUPPRESSOR	2	
	D4703	B0JCME000076	DIODE	1	
	D4704	B0ACCJ000048	DIODE	1	
	D5419	B0BC03900015	ZENER DIODE	1	
	D5600	B0ADEJ000035	ZENER DIODE	1	
	D5603-05	B0ACCJ000048	DIODE	3	
	D5606	B0JCCE000008	DIODE	1	
	D5629	B0BC8R100004	ZENER DIODE	1	
	D5633	B0ACCJ000048	DIODE	1	
	D5670,71	B0ACCJ000048	DIODE	2	
	D5765	B0HCMM000014	DIODE	1	
	D5770-72	B0JCPG000030	DIODE	3	
	D8300	B0ACCJ000048	DIODE	1	
	D8303,04	B0BC17000001	ZENER DIODE	2	
	D9202	1SS355	DIODE	1	
	D9203	B0ECKM000048	DIODE	1	
	D9204,05	B0JCPE000004	DIODE	2	
	D9206	B0ECKM000048	DIODE	1	
	D9211	B0HCMM000014	DIODE	1	
	D9212,13	B0ECKM000048	DIODE	2	
	D2500A	B3AAB0000343	LED	1	
	FL2100,01	J0HABB000003	LC FILTER	2	
	FL2102-04	J0HABB000004	LC FILTER	3	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	FL4201-03	EXC28CE201U	FILTER	3	
	FL4804,05	EXC28CE201U	FILTER	2	
	FL9001-08	EXC28CE900U	NW_R(X4)	8	
	IC2106	C1AB00003069	IC	1	
	IC2110	C0JBAB000854	IC	1	PAVCA
	IC3200	MFI341S2164	IC	1	PAVCA
	IC3201	C0DBEYY00016	IC	1	
	IC3202	C0ABBB000230	IC	1	
	IC4700	C1ZBZ0004161	IC	1	
	IC5601	C0EBF0000354	IC	1	
	IC5605	C0DBAGF00030	IC	1	
	IC5606	C0DBAYY00755	IC	1	PAVCA
	IC5607	C0DBGYY00887	IC	1	PAVCA
	IC5608	C0DBAYY00755	IC	1	PAVCA
	IC5609	C0DBGYY00887	IC	1	PAVCA
	IC5610	C0DBAYY00755	IC	1	PAVCA
	IC5613	C0DBEYG00002	IC	1	
	IC8001	C1AB00003249	IC	1	PAVCA
	IC8002	C3ABSY000043	IC	1	
	IC8004	TVRR622S	IC	1	PAVCA
	IC8502	TVRR632AES	IC	1	PAVCA
	IC8503	TVRR627AAS	IC	1	PAVCA
	IC8850	C0DBGYY00203	IC	1	
	IC9003	TVRR467S	IC	1	PAVCA
	IC9004	C0DBAYY00715	IC	1	
	IC9005	C0EBM0000026	IC	1	
	IC9006	MN85061	IC	1	PAVCA
	IC9201	C1AB00003252	IC	1	PAVCA
	IC9202	TVRR447S	IC	1	PAVCA
	IC9203	C0CBCAG00031	IC	1	
	IC9204	C1AB00003246	IC	1	PAVCA
	IC9205	C0DBAYY00730	IC	1	PAVCA
	IC9206	TVRR456S	IC	1	PAVCA
	IC9207	C0DBAYY00731	IC	1	PAVCA
	IC9208	C0ABEB000037	IC	1	PAVCA
	JK2101	K1U812A00001	JACK	1	PAVCA
	JK2102	K4AK08B00006	TERMINAL BOARD	1	PAVCA
	JK2108A	K1FY315A0006	CONNECTOR	1	PAVCA
	JK4500	K1FY119E0017	CONNECTOR	1	PAVCA
	JK4501,02	K1FY119D0011	CONNECTOR	2	PAVCA
	JK8502	K1NA09E00121	CONNECTOR	1	PAVCA
	L2123	J0JCC0000287	CHIP INDUCTOR	1	
	L2125	J0JCC0000287	CHIP INDUCTOR	1	
	L2126,27	J0JYC0000068	CHIP INDUCTOR	2	
	L2128-31	G1C330MA0416	INDUCTION COIL	4	PAVCA
	L3201	J0JHC0000045	CHIP INDUCTOR	1	
	L4210	J0JHC0000045	CHIP INDUCTOR	1	
	L4500-08	J0JYC0000068	CHIP INDUCTOR	9	
	L4511-13	J0JYC0000068	CHIP INDUCTOR	3	
	L5609	G1C6R8MA0416	INDUCTION COIL	1	PAVCA
	L5610	G1C100MA0416	INDUCTION COIL	1	
	L5611	G1C220MA0416	INDUCTION COIL	1	
	L5613	J0JHC0000075	CHIP INDUCTOR	1	
	L8000	J0JHC0000045	CHIP INDUCTOR	1	
	L8002-06	J0JHC0000045	CHIP INDUCTOR	5	
	L8007	ELJRF10NJFB	INDUCTION COIL	1	
	L8008-14	J0JHC0000045	CHIP INDUCTOR	7	
	L8016,17	J0JHC0000045	CHIP INDUCTOR	2	
	L8302	J0JGC0000070	FILTER	1	
	L8306	J0JHC0000045	CHIP INDUCTOR	1	
	L8307,08	G1CR22JA0020	INDUCTION COIL	2	
	L8309	G1C82NJA0075	INDUCTION COIL	1	PAVCA
	L8310,11	G1CR10JA0020	INDUCTION COIL	2	
	L8312,13	G1C56NJ00018	INDUCTION COIL	2	PAVCA
	L8314	G1CR18JA0020	INDUCTION COIL	1	
	L8315	J0JCC0000269	CHIP INDUCTOR	1	
	L8500,01	J0JHC0000045	CHIP INDUCTOR	2	
	L9003	J0JHC0000045	CHIP INDUCTOR	1	
	L9004	J0JHC0000046	CHIP INDUCTOR	1	
	L9005	J0JHC0000045	CHIP INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L9006	J0JHC0000046	CHIP INDUCTOR	1	
	L9007	J0JYC0000068	CHIP INDUCTOR	1	
	L9008-12	J0JHC0000045	CHIP INDUCTOR	5	
	L9013	G1C3R3Z00004	INDUCTION COIL	1	
	L9014	G1C2R2Z00006	INDUCTION COIL	1	
	L9015	G1C100MA0077	INDUCTION COIL	1	
	L9016	J0JHC0000075	CHIP INDUCTOR	1	
	L9201	J0JHC0000046	CHIP INDUCTOR	1	
	L9202	G1C6R8MA0416	INDUCTION COIL	1	PAVCA
	L9203,04	G1C220MA0234	INDUCTION COIL	2	
	PA4202	ERBSE2R50U	FUSE	1	
	PA9001	ERBSE5R00U	FUSE	1	
	Q2500	DSC200100L	TRANSISTOR	1	
	Q2504	DSC200100L	TRANSISTOR	1	
	Q2760,61	DSC200100L	TRANSISTOR	2	
	Q3201-04	DSC200100L	TRANSISTOR	4	
	Q3205,06	DSA200100L	TRANSISTOR	2	
	Q3207-09	DSC200100L	TRANSISTOR	3	
	Q3210,11	B1CBGD000001	FET	2	
	Q4500-02	DSC2001S0L	TRANSISTOR	3	
	Q4513	DSA200100L	TRANSISTOR	1	
	Q4515	B1HFCFA00026	TRANSISTOR	1	
	Q4702-04	DSC2001S0L	TRANSISTOR	3	
	Q4770	B1ADGJ000008	TRANSISTOR	1	PAVCA
	Q4771	DSC2001S0L	TRANSISTOR	1	
	Q5412	B1CHRE000005	TRANSISTOR	1	
	Q5431	DSC200100L	TRANSISTOR	1	
	Q5602	DSA200100L	TRANSISTOR	1	
	Q5605	DSA200100L	TRANSISTOR	1	
	Q5612,13	DSC200100L	TRANSISTOR	2	
	Q5615	B1ABGC000011	TRANSISTOR	1	
	Q5616	DSC2001S0L	TRANSISTOR	1	
	Q8002,03	DSC200100L	TRANSISTOR	2	
	Q8005	B1CBGD000001	FET	1	
	Q8301,02	DSA2001S0L	TRANSISTOR	2	
	Q8303,04	DSC200100L	TRANSISTOR	2	
	Q8305,06	DSA200100L	TRANSISTOR	2	
	Q8307	DSC200100L	TRANSISTOR	1	
	Q8308	DSA2001S0L	TRANSISTOR	1	
	Q9001	B1ABCF000231	TRANSISTOR	1	
	Q9003	B1ABCF000231	TRANSISTOR	1	
	Q9007	B1ADCE000022	TRANSISTOR	1	
	Q9008	B1MBDDA00003	FET	1	
	Q9009	B1MBEDA00015	FET	1	
	Q9201	B1ABMD000006	TRANSISTOR	1	PAVCA
	Q9202	B1DHCD000023	FET	1	
	Q9203	B1BDCF000021	TRANSISTOR	1	PAVCA
	Q9204,05	B1ABNF000006	TRANSISTOR	2	
	Q9206,07	B1ADNF000006	TRANSISTOR	2	
	Q9208	B1ADCF000190	TRANSISTOR	1	PAVCA
	R1179	D1BB7151A055	M7.15KOHM, 1/10W	1	
	R1180	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R2114-16	D1BB75R0A055	M 75 OHM, 1/10W	3	
	R2117-19	D0GA470JA015	M 47 OHM, J,0.063W	3	
	R2122	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R2198,99	D0GA472JA015	M 4.7KOHM, J,0.063W	2	
	R2200	D1BB75R0A055	M 75 OHM, 1/10W	1	
	R2205	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2218	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R2223	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R2226	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2258	D1BB75R0A055	M 75 OHM, 1/10W	1	
	R2260	D0GA303JA015	M 30K OHM J 0.063W	1	PAVCA
	R2265	D1BB75R0A055	M 75 OHM, 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2280,81	D0GA303JA015	M 30K OHM J 0.063W	2	PAVCA
	R2283-85	D0GA223JA015	M 22K OHM J 0.063W	3	
	R2286	D0GA303JA015	M 30K OHM J 0.063W	1	PAVCA
	R2287,88	D0GA223JA015	M 22K OHM J 0.063W	2	
	R2289	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2290	D0GA223JA015	M 22K OHM J 0.063W	1	
	R2291-93	J0JBC0000116	COIL	3	
	R2298	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2299	D1BB75R0A055	M 75 OHM, 1/10W	1	
	R2300	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R2303	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R2309	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R2311	ERJ2GEJ151	M 150 OHM, J,0.063W	1	
	R2314	D0GA303JA015	M 30K OHM J 0.063W	1	PAVCA
	R2315	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2317,18	D0GA223JA015	M 22K OHM J 0.063W	2	
	R2319,20	D0GA303JA015	M 30K OHM J 0.063W	2	PAVCA
	R2324,25	D0GA471JA015	M 470OHM, J,0.063W	2	
	R2326	D1BB2212A055	M22.1KOHM, 1/10W	1	
	R2327	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R2329	D1BA1822A014	M18.2KOHM, 0.063W	1	
	R2330	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2331-34	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/8W	4	
	R2335	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2339	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2342-45	J0JBC0000116	COIL	4	
	R2348	D0GA303JA015	M 30K OHM J 0.063W	1	PAVCA
	R2378	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2381,82	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R2384-87	D0GAR00Z0001	C 0 OHM, 0.063W	4	
	R2388	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R2391	D1BB75R0A055	M 75 OHM, 1/10W	1	
	R2502	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R2504	D0GA223JA015	M 22K OHM J 0.063W	1	
	R2509	D1BA6040A014	M 604 OHM, 0.063W	1	PAVCA
	R2512	D0GA470JA015	M 47 OHM, J,0.063W	1	
	R2514	D0GA562JA015	M 5.2KOHM, J,0.063W	1	
	R2515	D0GA124JA015	M 120KOHM J 0.063W	1	PAVCA
	R2516	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2517	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R2518	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2529,30	D0GA332JA015	M 3.3KOHM, J,0.063W	2	
	R2532	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2542	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2700	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R2757	D0GA182JA015	M 1.8KOHM, J,0.063W	1	
	R2759-61	D0GA101JA015	M 100 OHM, J,0.063W	3	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2763,64	D0GA473JA015	M 47KOHM, J,0.063W	2	
	R2765	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2766	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R2767	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R2769	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R2770	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R3015-17	D0GAR00Z0001	C 0 OHM, 0.063W	3	
	R3026,27	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R3124-26	D0GAR00Z0001	C 0 OHM, 0.063W	3	
	R3200,01	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R3202	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R3203	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R3205	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R3206,07	ERJ2GEJ221	M 220 OHM, J,0.063W	2	
	R3208	ERJ6RED750	M 75 OHM, 1/10W	1	
	R3209,10	D0GA184JA015	M 180KOHM J 0.063W	2	
	R3211	ERJ2RKD2203X	M 220KOHM, 0.063W	1	PAVCA
	R3212	J0JBC0000116	COIL	1	
	R3213	ERJ2RKD3303X	M 330KOHM, 0.063W	1	PAVCA
	R3214	ERJ2RKF1021X	M 1.02KOHM, 0.063W	1	PAVCA
	R3215	D1BA3241A014	M3.2 KOHM,0.063W	1	PAVCA
	R3216	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3217	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R3218	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3219	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R3220,21	D1BB1502A055	M 15KOHM, 1/10W	2	
	R3222-25	D1BB1002A055	M 10KOHM, 1/10W	4	
	R3226,27	D1BB1502A055	M 15KOHM, 1/10W	2	
	R3228,29	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R3233,34	D0GA472JA015	M 4.7KOHM, J,0.063W	2	
	R3235,36	D0GA473JA015	M 47KOHM, J,0.063W	2	
	R3237,38	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
	R3239,40	D0GA564JA015	M560KOHM, J,0.063W	2	
	R3241,42	D0GA472JA015	M 4.7KOHM, J,0.063W	2	
	R3243	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3244	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R3245,46	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R3249	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R3250	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R3252	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3254	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R3255	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R3256	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R3257,58	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
	R3265	D0GAR00Z0001	C 0 OHM, 0.063W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3267-71	D0GAR00Z0001	C 0 OHM, 0.063W	5	
	R3272	J0JBC0000116	COIL	1	
	R3273,74	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R4214	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R4215	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4216-19	D0GA101JA015	M 100 OHM, J,0.063W	4	
	R4220	EXB28VR000X	RESISTOR ARRAY	1	
	R4224	EXB28VR000X	RESISTOR ARRAY	1	
	R4226	EXB28VR000X	RESISTOR ARRAY	1	
	R4232	EXB28VR000X	RESISTOR ARRAY	1	
	R4238	EXB28VR000X	RESISTOR ARRAY	1	
	R4251	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R4358	D0GA912JA015	M 9.1KOHM, J,0.063W	1	PAVCA
	R4359	D0GA332JA015	M 3.3KOHM, J,0.063W	1	
	R4502,03	D0GA473JA015	M 47KOHM, J,0.063W	2	
	R4504	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4505	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4506,07	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R4509	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4512	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4515	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R4516	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4519,20	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R4525-27	D0GA472JA015	M 4.7KOHM, J,0.063W	3	
	R4548	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R4549,50	ERJ2GEJ151	M 150 OHM, J,0.063W	2	
	R4556	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R4560	D0GA151JA015	M 150 OHM, J,0.063W	1	
	R4561	D0GA560JA015	M 56 OHM, J,0.063W	1	
	R4564-67	ERJ2GEJ103	M 10KOHM, J,0.063W	4	
	R4703	ERJ6GEYJ100V	M 10 OHM,J,1/10W	1	
	R4711	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R4715-17	D0GA222JA015	M 2.2KOHM, J,0.063W	3	
	R4729-31	D0GA222JA015	M 2.2KOHM, J,0.063W	3	
	R4742	ERJ6GEYJ150V	M 15 OHM,J,1/10W	1	
	R4748	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4752,53	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R4762	EXB2HV220JV	RESISTOR ARRAY	1	
	R4777	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4778	D0GA152JA015	M 1.5KOHM, J,0.063W	1	
	R4779	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4780	EXB2HV220JV	RESISTOR ARRAY	1	
	R4781	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R4782	D0GA182JA015	M 1.8KOHM, J,0.063W	1	
	R4791	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	R4793	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R4794,95	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R4796	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	R4799	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R4802	EXB2HV220JV	RESISTOR ARRAY	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4803	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R4806	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4809	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4811	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R4817	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4820	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R4821	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4822	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R4830,31	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
	R4861	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R4868,69	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R4974	D1BA1601A014	M1.60KOHM, 0.063W	1	PAVCA
	R5431	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5432	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R5433	D0GA333JA015	M 33KOHM,J,0.063W	1	
	R5434	D0GA223JA015	M 22K OHM J 0.063W	1	
	R5435	ERJ12YJ471	M 470OHM,J, 1/2W	1	
	R5605	D0GA223JA015	M 22K OHM J 0.063W	1	
	R5606	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R5607	D0GA152JA015	M 1.5KOHM, J,0.063W	1	
	R5608	D0GA222JA015	M 2.2KOHM, J,0.063W	1	
	R5610	D0GA471JA015	M 470OHM, J,0.063W	1	
	R5623	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5624	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R5625	D0GA683JA015	M 68KOHM, J,0.063W	1	
	R5626	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
	R5627	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5629	D0GA105JA015	M 1M OHM, J,0.063W	1	
	R5630	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R5631	D0GA471JA015	M 470OHM, J,0.063W	1	
	R5632	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R5667	D1BB4301A087	M4.3 KOHM, 1/10W	1	PAVCA
	R5668	D1BB1002A087	M 10KOHM, 1/10W	1	
	R5669	D1BA2201A014	M2.2 KOHM, 0.063W	1	
	R5670	D0GA223JA015	M 22K OHM J 0.063W	1	
	R5671	D0GA683JA015	M 68KOHM, J,0.063W	1	
	R5672	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5673	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R5674	D0GA222JA015	M 2.2KOHM, J,0.063W	1	
	R5675	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5676	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R5678	D1BB9101A087	M9.1 KOHM, 1/10W	1	PAVCA
	R5679	D1BB1002A087	M 10KOHM, 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5680	D1BA2201A014	M2.2 KOHM, 0.063W	1	
	R5681	D1BB4702A087	M 47KOHM, 1/10W	1	PAVCA
	R5682	D1BB1002A087	M 10KOHM, 1/10W	1	
	R5683	D1BA6801A014	M6.8 KOHM, 0.063W	1	
	R5694	D0GA471JA015	M 470OHM, J,0.063W	1	
	R5696	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R5697	D0GB332JA041	M 3.3KOHM,J,1/ 10W	1	
	R5701	D1BA20010002	M 2KOHM, 0.063W	1	
	R5702	D1BA1001A014	M 1KOHM, 0.063W	1	
	R5705,06	ERJ6GEY0R00V	M 0 OHM J 1/10W	2	
	R5707-09	D0GB150JA041	M 15 OHM J 1/10W	3	PAVCA
	R5710-12	D0GB2R2JA057	M 2.2OHM J 1/10W	3	
	R5713	D1BB6201A087	M 6.2KOHM, 1/10W	1	PAVCA
	R5714	D1BB1241A087	M1.24KOHM, 1/10W	1	
	R5715	D1BB4301A087	M4.3 KOHM, 1/10W	1	PAVCA
	R7110,11	D0GA680JA015	M 47 OHM, J,0.063W	2	
	R8000,01	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R8003	D1BA3010A014	M 301 OHM, 0.063W	1	PAVCA
	R8004	D1BA4020A014	M 402 OHM, 0.063W	1	PAVCA
	R8005	D1BA1020A014	M 102 OHM, 0.063W	1	PAVCA
	R8006	D1BA4020A014	M 402 OHM, 0.063W	1	PAVCA
	R8007	D1BA1020A014	M 102 OHM, 0.063W	1	PAVCA
	R8008,09	ERJ2GEJ102X	M 1K OHM J 1/4W	2	
	R8010-19	EXB28V101JX	RESISTOR ARRAY	10	
	R8023	D0GA105JA015	M 1M OHM, J,0.063W	1	
	R8024	D0GA152JA015	M 1.5KOHM, J,0.063W	1	
	R8025-27	D1BB2001A055	M 2KOHM, 1/10W	3	
	R8029,30	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R8037	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8039-41	D0GA472JA015	M 4.7KOHM, J,0.063W	3	
	R8043	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R8044	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8045	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R8048	D0GA273JA015	M 27K OHM J ,0.063W	1	
	R8049-51	D0GA101JA015	M 100 OHM, J,0.063W	3	
	R8053	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8054	D0GA122JA015	M 1.2KOHM, J,0.063W	1	
	R8055	D0GA222JA015	M 2.2KOHM, J,0.063W	1	
	R8056,57	D0GA152JA015	M 1.5KOHM, J,0.063W	2	
	R8058	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8059	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8062	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8063-65	D0GAR00Z0001	C 0 OHM, 0.063W	3	
	R8068	D0GA151JA015	M 150 OHM, J,0.063W	1	
	R8070-73	D0GAR00Z0001	C 0 OHM, 0.063W	4	
	R8079	ERJ2RKF73R2X	M 73.2 OHM, , 0.063W	1	PAVCA
	R8089	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8091	D1BA80R6A014	M 80.6 OHM, 0.063W	1	PAVCA
	R8094	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8098	D0GA472JA015	M 4.7KOHM, J,0.063W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8099	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8100	D0GA223JA015	M 22K OHM J 0.063W	1	
	R8101	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8106	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8302	D0GA561JA015	M 560OHM, J,0.063W	1	PAVCA
	R8303	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8305	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R8306	D0GA222JA015	M 2.2KOHM, J,0.063W	1	
	R8307,08	D0GA101JA015	M 100 OHM, J,0.063W	2	
	R8309	D0GA750JA015	M 75 OHM, J,0.063W	1	PAVCA
	R8310	D0GA474JA015	M470KOHM, J,0.063W	1	PAVCA
	R8311	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8312	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8313	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R8314	D0GA333JA015	M 33KOHM,J,0.063W	1	
	R8315	D0GA223JA015	M 22K OHM J 0.063W	1	
	R8316,17	D0GA473JA015	M 47KOHM, J,0.063W	2	
	R8318	D0GA223JA015	M 22K OHM J 0.063W	1	
	R8319	D0GA393JA015	M 39KOHM,J,0.063W	1	
	R8320	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R8321,22	D0GA472JA015	M 4.7KOHM, J,0.063W	2	
	R8323	D0GA333JA015	M 33KOHM,J,0.063W	1	
	R8324	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R8325,26	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R8330	D0GA222JA015	M 2.2KOHM, J,0.063W	1	
	R8331	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8332	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R8333	D0GA122JA015	M 1.2KOHM, J,0.063W	1	
	R8334	D0GA471JA015	M 470OHM, J,0.063W	1	
	R8335	ERJ6GEY0R00V	M 0 OHM J 1/10W	1	
	R8336	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R8337	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8338	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8339	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
	R8341	ERJ6GEYG821	M 820 OHM,J,1/ 10W	1	
	R8342	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R8345-48	D0GAR00Z0001	C 0 OHM, 0.063W	4	
	R8350	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8406	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8501	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R8502	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8510,11	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R8512-16	EXB2HV680J	RESISTOR ARRAY	5	
	R8521-23	D0GA472JA015	M 4.7KOHM, J,0.063W	3	
	R8528	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8530	EXB2HV330JV	RESISTOR ARRAY	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8531-33	D0GA680JA015	M 47 OHM, J,0.063W	3	
	R8538	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8539	EXB2HV680J	RESISTOR ARRAY	1	
	R8543	EXB2HV103JV	RESISTOR ARRAY	1	
	R8546	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R8547,48	D0GA473JA015	M 47KOHM, J,0.063W	2	
	R8557	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8560	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R8851	D1BA2201A014	M2.2 KOHM, 0.063W	1	
	R8852	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R8853	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9005-16	D0GA101JA015	M 100 OHM, J,0.063W	12	
	R9020	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R9021,22	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R9031	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R9036	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9042	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9052	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9056	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9066	EXB2HV103JV	RESISTOR ARRAY	1	
	R9068	D0GA334JA015	M 330KOHM, J,0.063W	1	
	R9069-72	ERJ2GEJ103	M 10KOHM, J,0.063W	4	
	R9073	ERJ2GEJ102X	M 1K OHM J 1/4W	1	
	R9074	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R9075,76	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R9078,79	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R9081	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9082	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R9088	D0GA223JA015	M 22K OHM J 0.063W	1	
	R9089	EXB28V680JX	RESISTOR ARRAY	1	
	R9090	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9093	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9094	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R9095,96	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
	R9097-99	D0GA680JA015	M 47 OHM, J,0.063W	3	
	R9100	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9101	D0GA153JA015	M 15K OHM J 0.063W	1	
	R9102	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9103	D1BB2492A055	M24.9KOHM, 1/10W	1	PAVCA
	R9104	D1BB2700A087	M 270 OHM, 1/10W	1	PAVCA
	R9106	D1BB4702A055	M 47KOHM, 1/10W	1	
	R9107	D1BB1001A087	M 1KOHM, 1/10W	1	PAVCA
	R9108	D1BB1101A055	M 1.1 KOHM, 1/ 10W	1	
	R9109	D1BB8200A087	M 820 OHM, 1/10W	1	
	R9110	D1BB3601A055	M 3.6KOHM, 1/10W	1	
	R9113	D0GA473JA015	M 47KOHM, J,0.063W	1	
	R9114,15	D0GB100JA041	M 10 OHM J 1/10W	2	
	R9116,17	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R9118	D1BB2702A055	M 27KOHM, 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9119	D1BB2402A055	M 24KOHM, 1/10W	1	
	R9125,26	D0GA101JA015	M 100 OHM, J,0.063W	2	
	R9131	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9140	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9152,53	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R9158-61	ERJ2GEJ102X	M 1K OHM J 1/4W	4	
	R9201-18	D0GA101JA015	M 100 OHM, J,0.063W	18	
	R9219	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R9221	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9222	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R9223	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R9224	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
	R9225	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R9226	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R9228-30	D0GA101JA015	M 100 OHM, J,0.063W	3	
	R9232	D0GA101JA015	M 100 OHM, J,0.063W	1	
	R9233	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9234	D0GA680JA015	M 47 OHM, J,0.063W	1	
	R9235	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9237	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9238,39	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R9240	D1BA10R0A014	M 10 OHM, 0.063W	1	PAVCA
	R9242	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
	R9243	D1BA1004A014	M1000KOHM, 0.063W	1	PAVCA
	R9245	D1BA6201A014	M6.2KOHM, 0.063W	1	
	R9246	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R9247,48	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
	R9250	D1BA1000A014	M 100 OHM, 0.063W	1	PAVCA
	R9260	D1BA20R0A014	M 20 OHM, 0.063W	1	PAVCA
	R9261	D1BA20020005	M 20KOHM, 0.063W	1	PAVCA
	R9262	D1BA7501A014	M 7.5 KOHM, 0.063W	1	PAVCA
	R9263	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9264	D1BA20R0A014	M 20 OHM, 0.063W	1	PAVCA
	R9265	D1BA1000A014	M 100 OHM, 0.063W	1	PAVCA
	R9266	D1BA3001A014	M 3KOHM, 0.063W	1	
	R9267,68	D1BA10R0A014	M 10 OHM, 0.063W	2	PAVCA
	R9270	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9271	D1BA1003A014	M 100KOHM, 0.063W	1	PAVCA
	R9272	D1BA3602A014	M 36 KOHM, 0.063W	1	PAVCA
	R9273	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9275	D1BA3001A014	M 3KOHM, 0.063W	1	
	R9276	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9278	D1BA8202A014	M 82 KOHM, 0.063W	1	PAVCA
	R9279	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9282	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9283	D1BA5101A014	M 5.1 KOHM, 0.063W	1	PAVCA
	R9285	D1BA3601A014	M3.6 KOHM, 0.063W	1	PAVCA
	R9286	D1BA1302A014	M 13KOHM, 0.063W	1	PAVCA
	R9287	D1BA8201A014	M 8.2 KOHM, 0.063W	1	PAVCA
	R9288	D1BA1000A014	M 100 OHM, 0.063W	1	PAVCA
	R9289,90	D1BA2R20A014	M 2.2 OHM, 0.063W	2	PAVCA
	R9291	D0GAR00Z0001	C 0 OHM, 0.063W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R9294	D1BA1003A014	M 100KOHM, 0.063W	1	PAVCA
	R9297	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9298,99	D1BA20R0A014	M 20 OHM, 0.063W	2	PAVCA
	R9300	D1BA1002A014	M 10KOHM, 0.063W	1	
	R9301,02	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R9303	D1BA2R20A014	M 2.2 OHM, 0.063W	1	PAVCA
	R9306	D1BA2R20A014	M 2.2 OHM, 0.063W	1	PAVCA
	R9307,08	D1BA1004A014	M1000KOHM, 0.063W	2	PAVCA
	R9309	D1BA5102A014	M 51 KOHM, 0.063W	1	PAVCA
	R9310	D1BA7502A014	M 75 KOHM, 0.063W	1	PAVCA
	R9311	D1BA6802A014	M 68 KOHM, 0.063W	1	PAVCA
	R9312	D1BA1502A014	M 15KOHM, 0.063W	1	PAVCA
	R9313	D1BA5602A014	M 56 KOHM, 0.063W	1	
	R9314	D1BA1003A014	M 100KOHM, 0.063W	1	PAVCA
	R9315-18	D1BA2R20A014	M 2.2 OHM, 0.063W	4	PAVCA
	R9319	D1BA1602A014	M 16 OHM, 0.063W	1	PAVCA
	R9320	D1BA8202A014	M 82 KOHM, 0.063W	1	PAVCA
	R9322	ERJ8ENF9101V	M 9100 OHM, 0.25W	1	PAVCA
	R9324	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9327,28	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	R9331	D1BA2701A014	M2.7 KOHM, 0.063W	1	PAVCA
	R9332	D1BA5102A014	M 51 KOHM, 0.063W	1	PAVCA
	R9333	D1BA20020005	M 20KOHM, 0.063W	1	PAVCA
	R9334	D1BA7501A014	M 7.5 KOHM, 0.063W	1	PAVCA
	R9335	D1BA3303A014	M 330KOHM, 0.063W	1	PAVCA
	R9336	D4CC14730006	THERMISTOR	1	PAVCA
	R9337	D1BA9101A014	M 9.1 KOHM, 0.063W	1	PAVCA
	R9339	D0GA472JA015	M 4.7KOHM, J,0.063W	1	
	R9349	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9351	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9353	D1BA2202A014	M 22KOHM, 0.063W	1	
	R9359	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9361	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9362	D1BA2202A014	M 22KOHM, 0.063W	1	
	R9363	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9364	D1BA3900A014	M 390 OHM, 0.063W	1	PAVCA
	R9365	D1BA1001A014	M 1KOHM, 0.063W	1	
	R9366	D1BA2201A014	M2.2 KOHM, 0.063W	1	
	R9369	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9372	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R9373	D0GAR00Z0001	C 0 OHM, 0.063W	1	
	R9376-78	D1BA2202A014	M 22KOHM, 0.063W	3	
	R9381,82	D1BA1001A014	M 1KOHM, 0.063W	2	
	R9383,84	D0GAR00Z0001	C 0 OHM, 0.063W	2	
	RM2500	PNJ4815M01TV	REMOTE SENSOR	1	
	SN2500	B3JB00000078	IC	1	PAVCA
	TC01	K1MN60BA0126	CONNECTOR	1	PAVCA
	TC04	K1MN60BA0126	CONNECTOR	1	PAVCA
	TC05	K1KB51BA0074	CONNECTOR	1	
	TC06	K1KA03B00242	3P CONNECTOR	1	
	TC07	K1KA07BA0014	7P CONNECTOR	1	
	TC08	K1KA09B00112	9P CONNECTOR	1	
⚠	TU8302	ENG36F12KF	TUNER	1	PAVCA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	V10	K1KA07B00135	7P CONNECTOR	1	
	X8000	H0J250500094	CRYSTAL	1	PAVCA
	X9001	H0J270500113	CRYSTAL	1	
	X9201	H2D100500004	CRYSTAL	1	
	ZA5400-03	K4ZZ01000267	TERMINAL	4	
	ZA5405-20	K4ZZ01000267	TERMINAL	16	