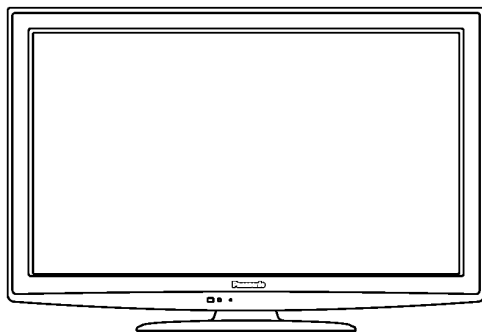


Service Manual

Hospitality LCD HDTV

Model No. **TH-37LRU20**

LA11 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.

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. 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 between 1Mohm and 5.2Mohm.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

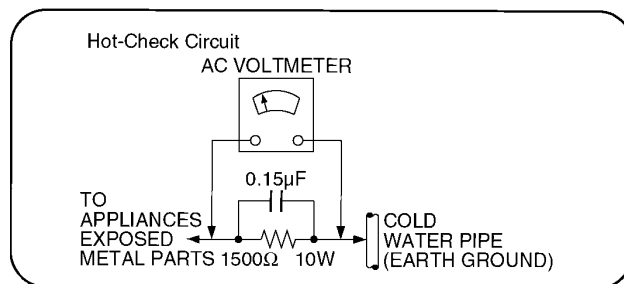


Figure 1

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.

2 Warning

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

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

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

Caution

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

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

2.2. About lead free solder (PbF)

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

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

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

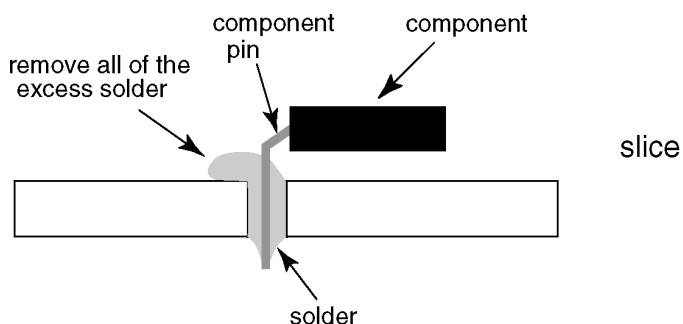
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

Caution

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



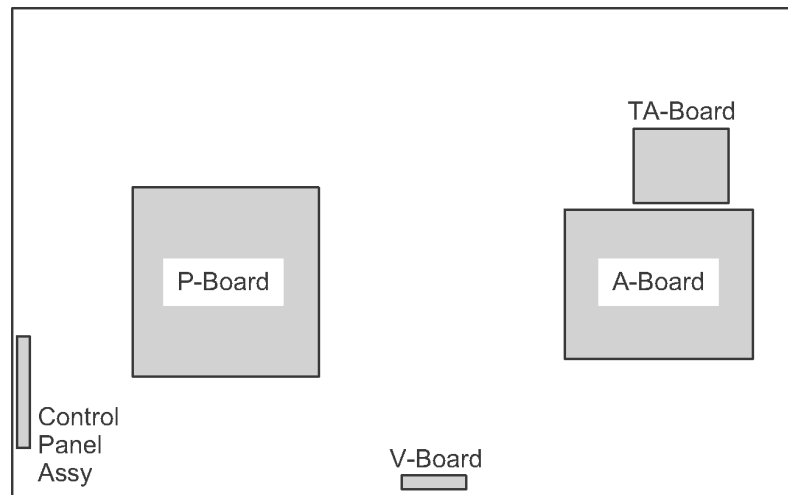
Suggested Pb free solder

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

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

3 Service Navigation

3.1. Service Hint



Board Name	Function
TA-Board	Band Pass Filter, Frequency Shift Keying Receiver, Frequency Shift Keying switch, MPU Non serviceable TA-Board should be exchanged for service.
A-Board	Speaker out, AV Terminal, HDMI in, SD Card, PC in, Digital Signal Processor, Peaks sLD, Tuner
V-Board	Remote Receiver, LED
P-Board	Power (AC/DC), DC-DC
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			*
Macintosh 13" (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			*
Macintosh 16" (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" (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			
Rated Power Consumption	159 W		
On mode Average	84 W		
Power Consumption*			
Standby condition	0.8 W		
Display panel			
Aspect Ratio	16:9		
Visible screen size	37" class (37.0 inches measured diagonally)		
(W × H × Diagonal)	32.2 " × 18.1 " × 37.0 " (819 mm × 460 mm × 940 mm)		
(No. of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 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		
	VHF/ UHF: 2 - 69, CATV: 1 - 135 (support MPEG4 H.264 decode)		
Channel Capability-ATSC/NTSC (Digital/Analog)			
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-ohm)
	AUDIO L-R:	RCA PIN Type × 2	0.5 V [rms]
COMPONENT IN	Y:	1.0 V [p-p] (including synchronization)	
	P _B , P _R :	±0.35 V [p-p]	
	AUDIO L-R:	RCA PIN Type × 2	0.5 V [rms]
HDMI 1-3	TYPE A Connector × 3		
PC	D-SUB 15PIN:	R,G,B / 0.7 V [p-p] (75-ohm)	
		HD, VD / 1.0 - 5.0 V [p-p] (high impedance)	
SERIAL CTRL	M3 Jack × 1 (RS232C)		
DATA/MTI	RJ-11C (6pin)		
	• Multiple Television Interface (MTI) • Nintendo Controller Power (pin3: DC12V / 30mA (max)) • SNES Controller		
Audio out	M3 JACK × 1	0.5 V [rms] (high impedance)	
Card slot	SD CARD slot × 1		
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
FEATURES	3D Y/C FILTER, CLOSED CAPTION, V-Chip, Vesa compatible, Integrated Pro: Idiom		
Dimensions (W × H × D)			
Including TV stand	36.1 " × 24.5 " × 12.1 " (915 mm × 622 mm × 307 mm)		
TV Set only	36.1 " × 22.8 " × 3.5 " (915 mm × 577 mm × 87 mm)		
Mass			
Including TV stand	36.9 lb. (16.7 kg) NET		
TV Set only	28.7 lb. (13.0 kg) NET		

* Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

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

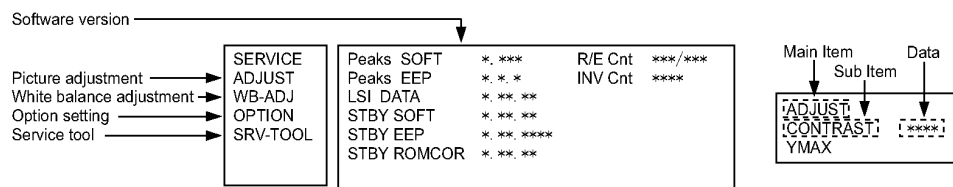
5.1.1. Set "Hotel Mode" Off

Service Mode can not be entered if Hotel mode is "On" (Activating). Hotel Mode should be set to "Off" by using only Remote Control as following procedure.

1. Press [MENU], [G], [Y] and [0] buttons on the remote control by turns to display "Hotel Mode setup menu".
2. Select the item "Mode" and set "Off" status.
3. Select the item "Save" and press [OK] button.
4. Disconnect the AC cord from wall outlet, or press and hold the [POWER] button at right side on the main unit for 10 seconds or more.

5.1.2. Enter into Service Mode

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



5.1.3. 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 (-)

5.1.4. Contents of adjustment mode

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

Main item	Sub item	Sample Data	Remark
ADJUST	CONTRAST	000	
	COLOR	34	
	TINT	00	
	SUB-BRT	800	
	BACKLGT	51D	
	B-Y-G	38	
	R-Y-A	10	
	V COM	000	
WB-ADJ	R-GAIN	FF	
	G-GAIN	F8	
	B-GAIN	FC	
	R-CENT	7E	
	G-CENT	80	
	B-CENT	82	
OPTION	Boot	ROM	Factory Preset.
	STBY-SET	00	
	EMERGENCY	ON	
	CLK MODE	00	
	CLOCK	000	
	EDID-CLK	MID	
SRV-TOOL		00	See next.

5.1.5. 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.

	SRV-TOOL	
Display of TD2Microcode version →	TD2Microcode : 005a0910	
Display of Flash ROM maker code →	Flash ROM : AD - F1	
Display of SOS History →	PICT : 00.00.00.00.00.	Time 01792:25 Count 0000023

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

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 3 seconds.

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, or press and hold the TV's [POWER] button for 10 seconds or more.

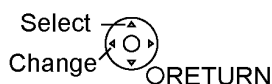
5.3. Hotel mode

1. Purpose
Restrict a function for hotels.
2. To display Hotel mode setup menu
Press [MENU], [G], [Y] and [0] buttons on the remote control by turns.

Then, the Hotel mode setup menu is displayed.

Hotel Mode

Save	
Mode	Off
TA Ctrl	Off
Initial input	—
Initial channel	- - -
Initial volume	+25
Max. volume	+100
OSD Ctrl	Off
Button lock	Off
Power ctrl	Off
Remote	Panasonic
CC reset	On
Lock reset	Off



3. Setting for each items
Select item by [UP]/[DOWN] button on the remote control and change the setting by [LEFT]/[RIGHT] button on the remote control. After the setting, select "Save" and press [OK] button on the remote control to store.
4. To exit the Hotel mode setup menu
Disconnect the AC cord from wall outlet, or press and hold the [POWER] button at right side on the main unit for 10 seconds or more.
5. Explain the Hotel mode setup menu

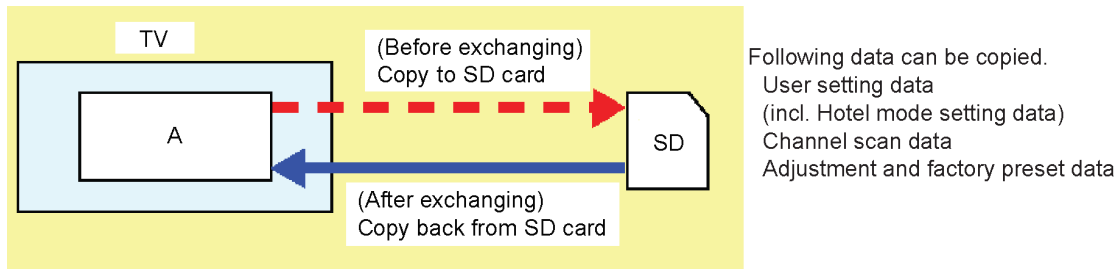
item	Function
Mode	Select hotel mode off/on
TA Ctrl	Sets TA (Terminal Adaptor) status. (Internal/External/Off) Internal: Use Internal TA External: Use External TA
Initial input	Selects Input when the TV is turned on. Does not operate when input from TA to the TV is prohibited. (-/RF/HDMI 1-3/Component/Video1-2/PC)
Initial channel	Sets the channel at power-on.
Initial volume	Sets the volume level at power-on. (0-100) Does not operate when control from TA to the TV is prohibited.
Max.volume	Sets the maximum volume level. (0-100)
OSD Ctrl	Limits the OSD display. (Off/Pattern1) Pattern 1: "Recall" and "Shut-off notification" messages are not displayed at power-on. Also displayed when "Pattern 1" is specified as the display command from TA.
Button lock	Limits the TV panel button operation. (Off/Pattern1/All) All: All buttons are not available. Pattern 1: Only INPUT and POWER buttons are available.
Power ctrl	Sets the screen condition when the AC power is switched on. (Off/On) Off: Starts up in last screen. ON: Starts up in screen On.
Remote	Switches Operation guide according to remote control. (Panasonic/Others)
CC reset	Sets CC setting status. (Off/On) Off: Saves the last settings. On: Resets all CC settings to defaults.
Lock reset	Sets Lock setting status. (Off/On) Off: Saves the last settings. On: Resets all Lock settings to defaults.
CC Priority	CC Contents priority setting. (708/608) Note: This item was introduced by running change.

5.4. Data Copy by SD Card

5.4.1. Purpose

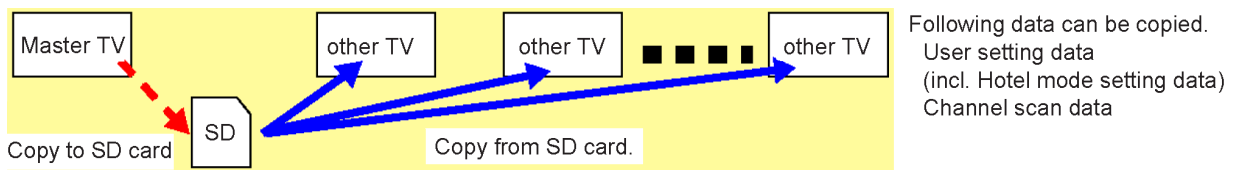
(a) Board replacement (Copy the data when exchanging A-board):

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



(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.



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.

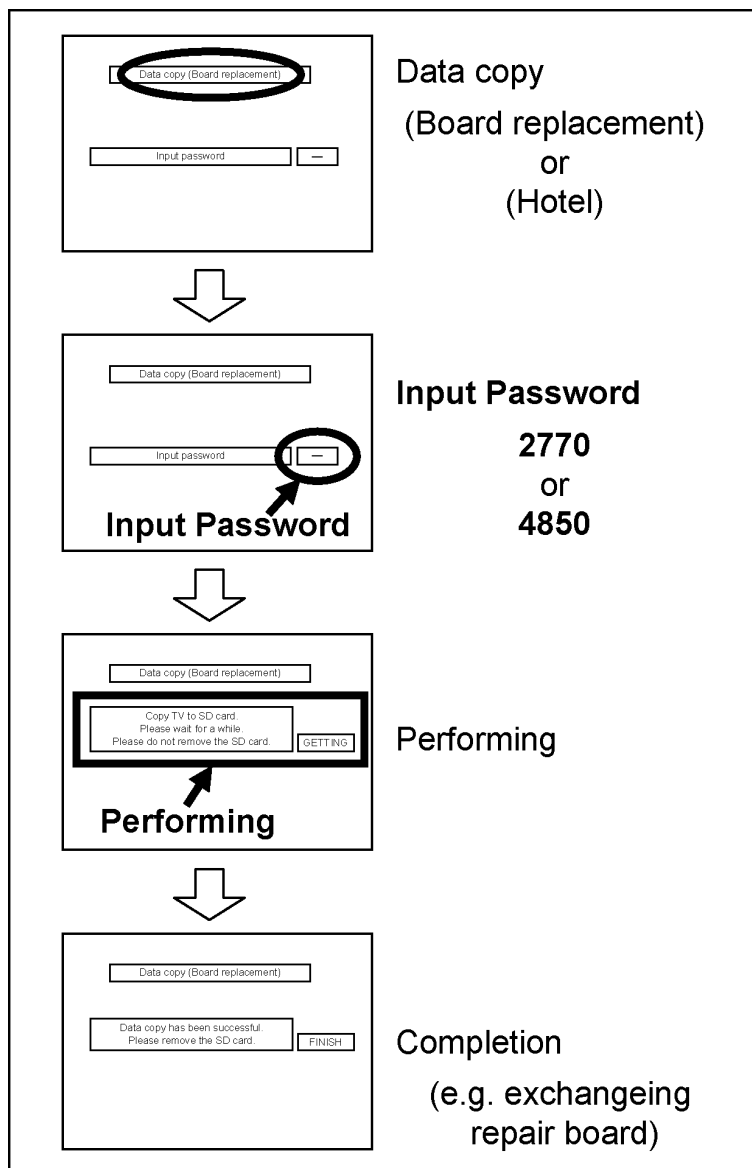
5.4.3. Data copy from TV set to SD Card

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

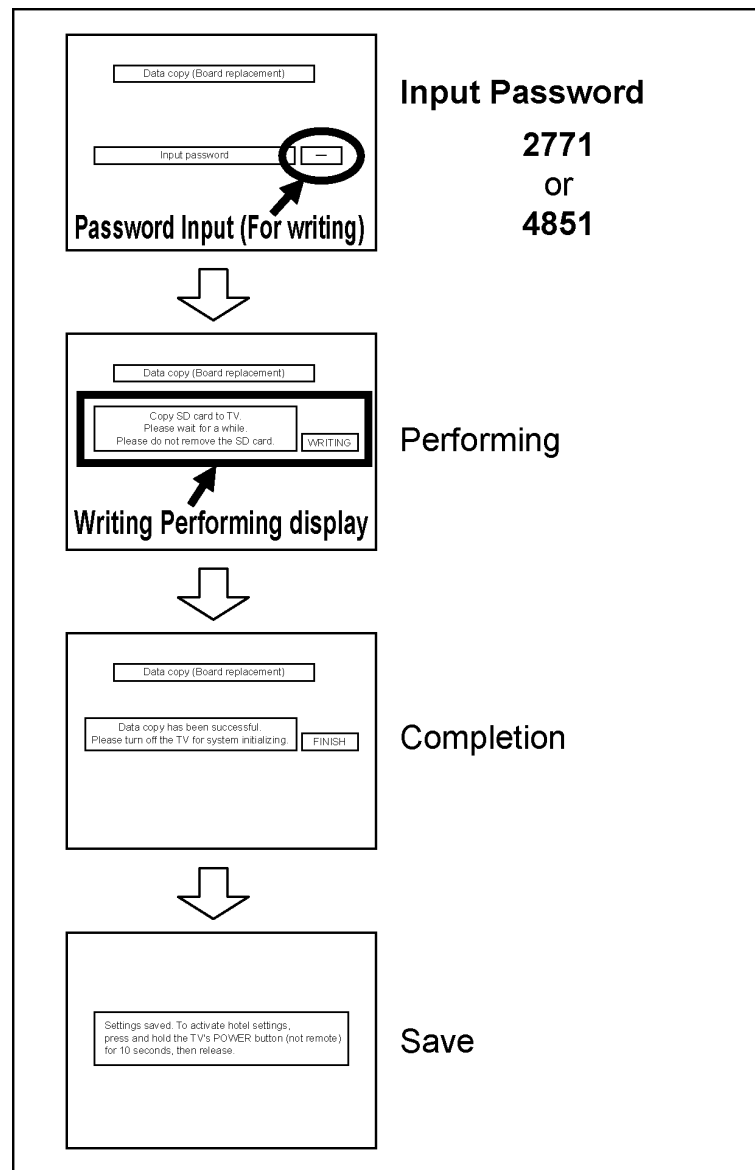


5.4.4. Data copy from SD Card to TV set

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. To save Data and exit:
press and hold the TV's [POWER] button for 10 seconds or more then release.

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. Set "Hotel Mode" Off

SELF CHECK can not be entered if Hotel mode is "On" (Activating). Hotel Mode should be set to "Off" by using only Remote Control as following procedure.

1. Press [MENU], [G], [Y] and [0] buttons on the remote control by turns to display "Hotel Mode setup menu".
2. Select the item "Mode" and set "Off" status.
3. Select the item "Save" and press [OK] button.
4. Disconnect the AC cord from wall outlet, or press and hold the [POWER] button at right side on the main unit for 10 seconds or more.

6.1.2. Enter into SELF CHECK

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.

6.1.3. Exit

Disconnect the AC cord from wall outlet, or press and hold the TV's [POWER] button for 10 seconds or more.

6.1.4. Screen display

SELF CHECK0.260-00.08.0715

PEAKS	OK
TUN	OK
FE	OK
ADAM	OK
AVSW	OK
STBY	OK
MEM1	OK
MEM2	OK
TEMP	OK
MEM3	OK

DCDC	OK
DAC	OK
FRSC	OK
PRID	OK

ROMCORR.CHECKSUM: 00
EDID: 23 d1c1b1-

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6.1.5. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Ref.No.	Description	P.C.B.
Peaks	IC8001	Peaks sLD	A-BOARD
TUN	TU8300	TUNER	A-BOARD
FE	IC8300	DEMO DULATOR	A-BOARD
ADAM	IC8001	sLD	A-BOARD
AVSW	IC3000	AUDIO VIDEO SWITCH	A-BOARD
STBY	IC8001	sLD/STM	A-BOARD
MEM1	IC8950	EEPROM (sLD)	A-BOARD
MEM2	IC1101	EEPROM (STM)	A-BOARD
TEMP	IC9980	TEMP SENSOR	A-BOARD
MEM3	IC in LCD PANEL	EEPROM (Panel)	LCD PANEL
DCDC	IC4800	DC-DC (T-con)	A-BOARD
DAC	IC4802	DAC (T-con)	A-BOARD
FRSC	IC9004	MPU (TA)	TA-BOARD
PRID	IC8305	Pro: Idiom	TA-BOARD

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

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

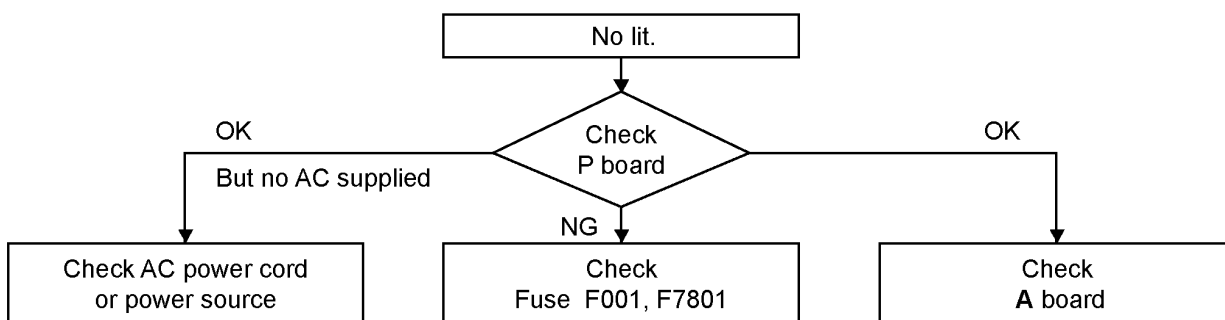
Blinking times	Contents	Check Point
1	BACK LIGHT SOS	LCD Panel P-Board
3	POWER SOS	A-Board P-Board
4	SUB12V SOS	P-Board
7	SUB3.3V SOS	A-Board
9	SOUND SOS	A-Board Speaker
12	Peaks sLD SOS (Boot up Error)	A-Board
13	Emergency SOS (Communication Error)	A-Board

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.)

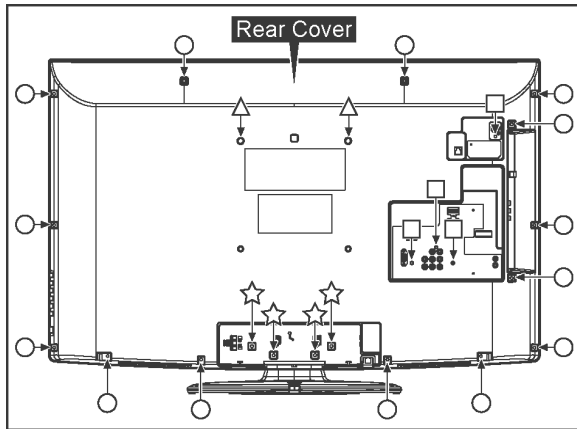


7 Disassembly and Assembly Instructions

- To disassemble P.C.B., wait for 1 minute after power was off for discharge from electrolysis capacitors.
- ○, □, △, ☆, ↑ and ⇩ marks indicate screw positions.

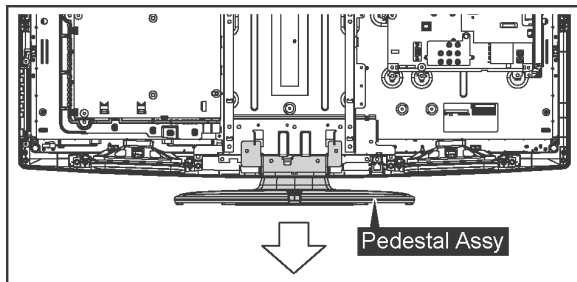
7.1. Removal of Rear Cover

1. Remove screws (×14 ○, ×4 □, ×2 △, ×4 ☆) and then remove the Rear Cover.



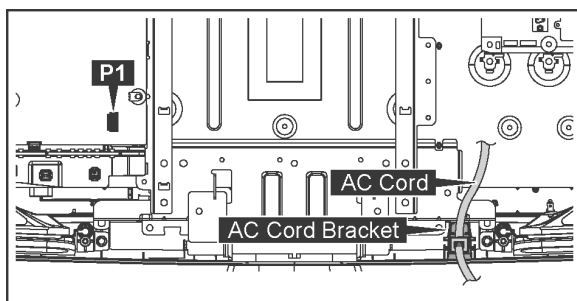
7.2. Removal of Pedestal Assy

1. Remove the Pedestal Assy.



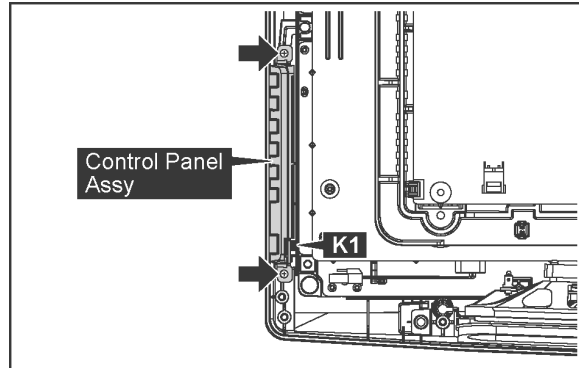
7.3. Removal of AC Cord

1. Disconnect the connector (P1).
2. Remove the AC Cord from the AC Cord Bracket.



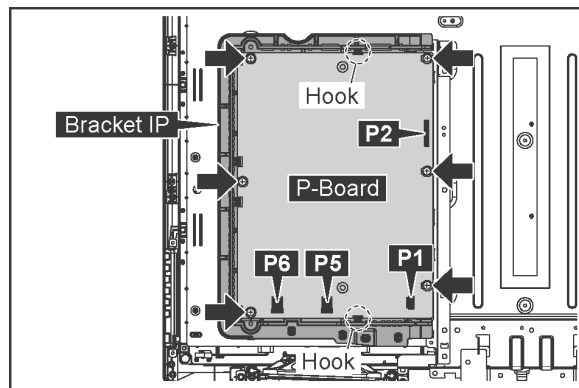
7.4. Removal of Control Panel Assy

1. Remove 2 screws and then remove the Control Panel Assy.
2. Disconnect the connector (K1).



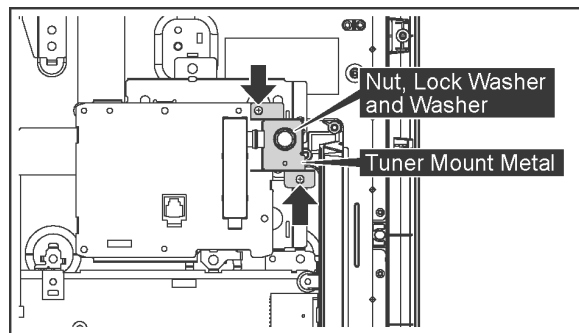
7.5. Removal of P-Board

1. Disconnect the connectors (P1, P2, P5, P6).
2. Remove 6 screws.
3. Remove 2 hooks.
4. Remove P-Board from the Bracket IP.

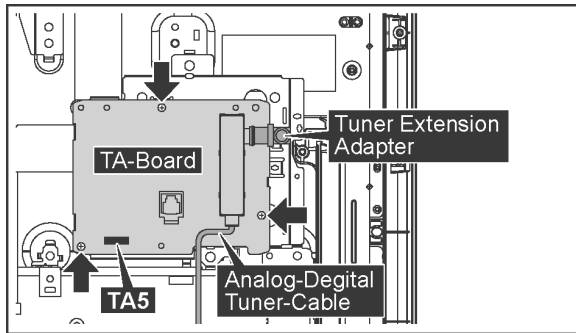


7.6. Removal of TA-Board

1. Remove 1 nut and then remove the lock washer and the washer.
2. Remove 2 screws and then remove the Tuner Mount Metal.

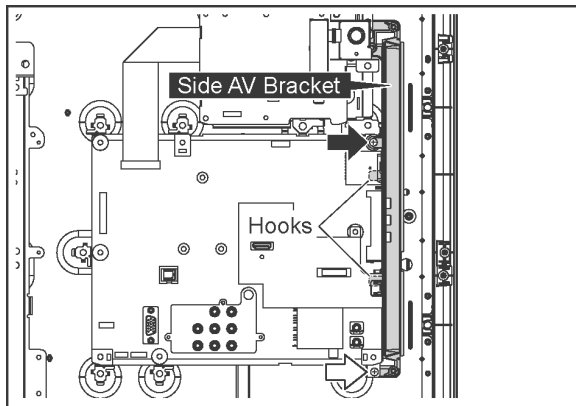


3. Remove the Tuner Extension Adapter.
4. Remove the analog-digital tuner-cable from TA-Board.
5. Disconnect the connector (TA5).
6. Remove 3 screws and then remove TA-Board.



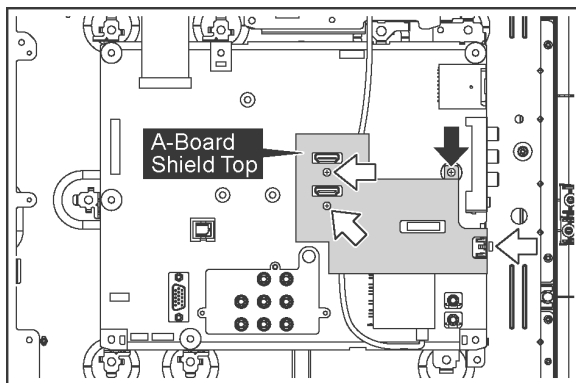
7.7. Removal of Side AV Bracket

1. Remove 1 screw (⬆).
2. Remove 1 screw (⬆).
3. Remove 2 hooks and then remove the Side AV Bracket.

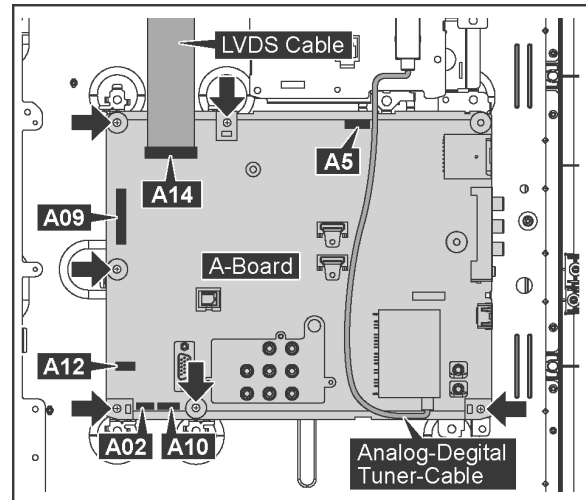


7.8. Removal of A-Board

1. Remove the Side AV Bracket.
(Refer to Removal of Side AV Bracket)
2. Remove 1 screw (⬆).
3. Remove 3 screws (⬆) and then remove the A-Board Shield Top.

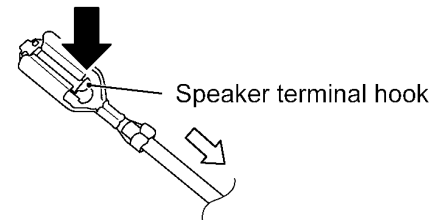


4. Remove the analog-digital tuner-cable from A-Board.
5. Disconnect the connectors (A02, A5, A09, A10, A12).
6. Remove the LVDS Cable from the connector (A14).
7. Remove 6 screws and then remove A-Board.

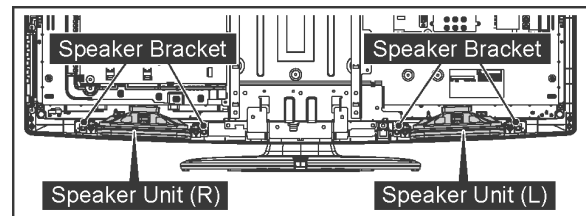


7.9. Removal of Speaker Unit (L, R)

1. Connected terminal hook is pushed, and the speaker lead in 4 places is pulled out.

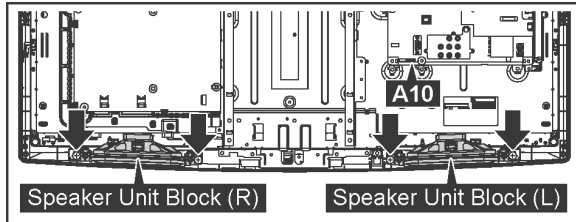


2. Remove the Speaker Unit (L, R) from the Speaker Bracket.

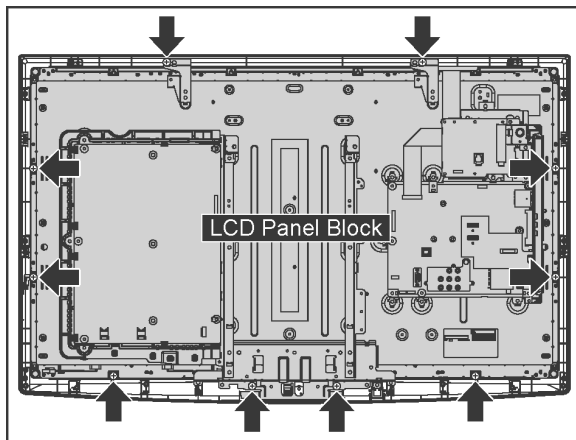


7.10. Removal of Cabinet Assy and V-Board

1. Remove the Pedestal Assy.
(Refer to Removal of Pedestal Assy)
2. Remove the Control Panel Assy.
(Refer to Removal of Control Panel Assy)
3. Remove 4 screws and then remove the Speaker Unit Block (L, R).
4. Disconnect the connector (A10).

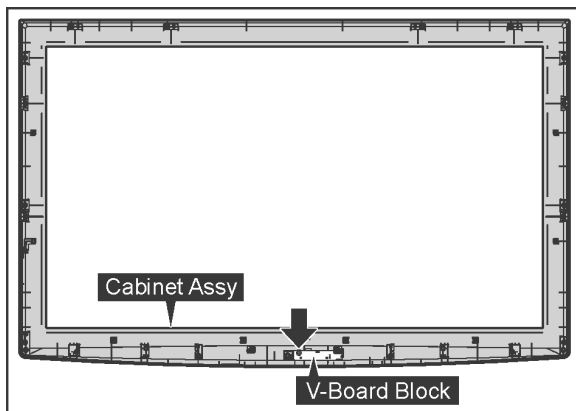


5. Remove 10 screws and then remove the LCD Panel Block.



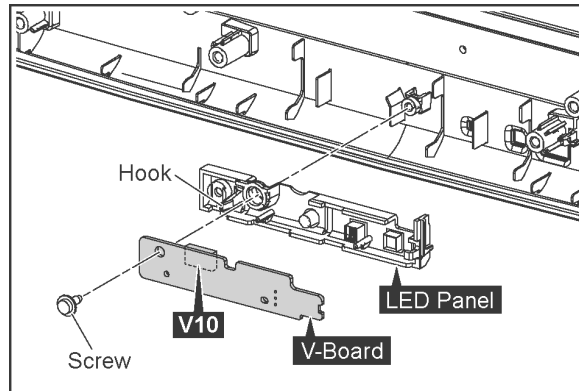
7.10.1. Removal of Cabinet Assy

1. Remove 1 screw and then remove the V-Board Block from the Cabinet Assy.



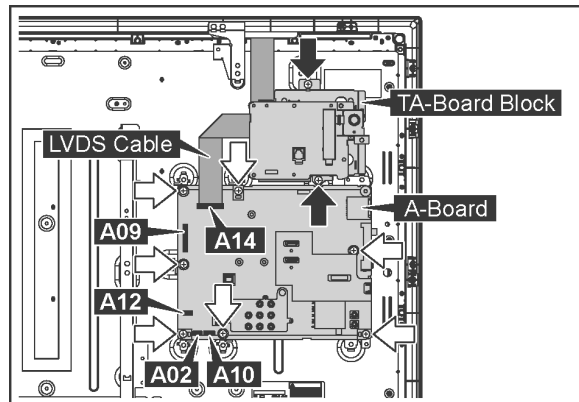
7.10.2. Removal of V-Board

1. Remove 1 screw.
2. Remove 1 hook and then remove the LED Panel from V-Board.
3. Disconnect the connector (V10).

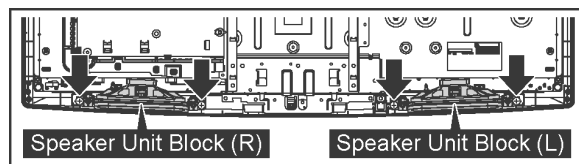


7.11. Removal of LCD Panel

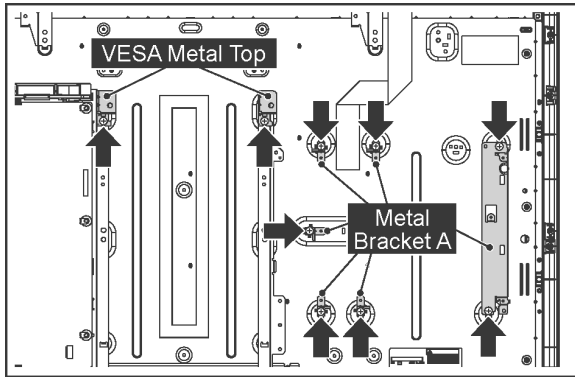
1. Remove the Pedestal Assy.
(Refer to Removal of Pedestal Assy)
2. Remove the AC Cord.
(Refer to Removal of AC Cord)
3. Remove the Control Panel Assy.
(Refer to Removal of Control Panel Assy)
4. Remove the Side AV Bracket.
(Refer to Removal of Side AV Bracket)
5. Disconnect the connectors (A02, A09, A10, A12).
6. Remove the LVDS Cable from the connector (A14).
7. Remove 2 screws (⬆).
8. Remove 7 screws (⬆).
9. Remove the TA-Board Block and A-Board.



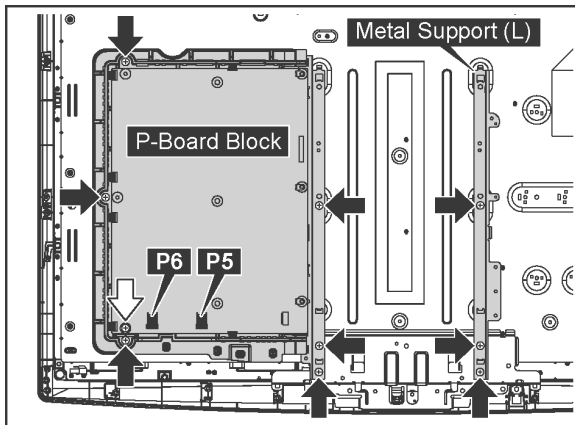
10. Remove 4 screws and then remove the Speaker Unit Block (L, R).



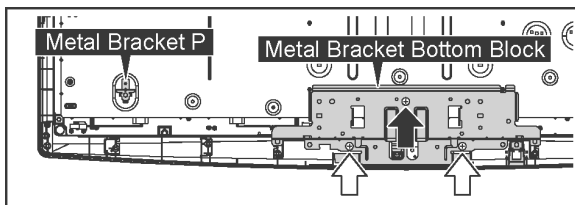
11. Remove 10 screws.
12. Remove the VESA Metal Top.
13. Remove the Metal Bracket A.



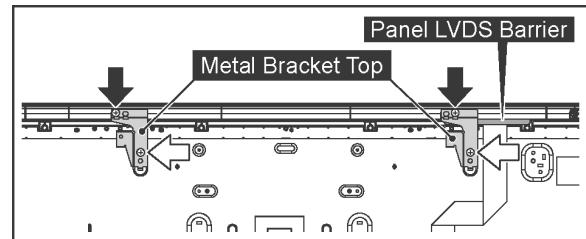
14. Disconnect the connectors (P5, P6).
15. Remove 1 screw (⇩).
16. Remove 9 screws (⇩).
17. Remove the Metal Support (L).
18. Remove the P-Board Block.



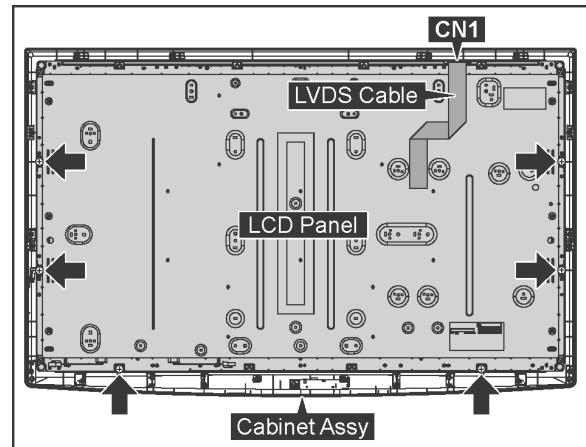
19. Remove the Metal Bracket P.
20. Remove 1 screw (⇩).
21. Remove 2 screws (⇩) and then remove the Metal Bracket Bottom Block.



22. Remove 2 screws (⇩).
23. Remove 2 screws (⇩) and then remove the Metal Bracket Top.
24. Remove the Panel LVDS Barrier.



25. Remove the LVDS Cable from the connector (CN1).
26. Remove 6 screws.
27. Remove the LCD Panel from the Cabinet Assy.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

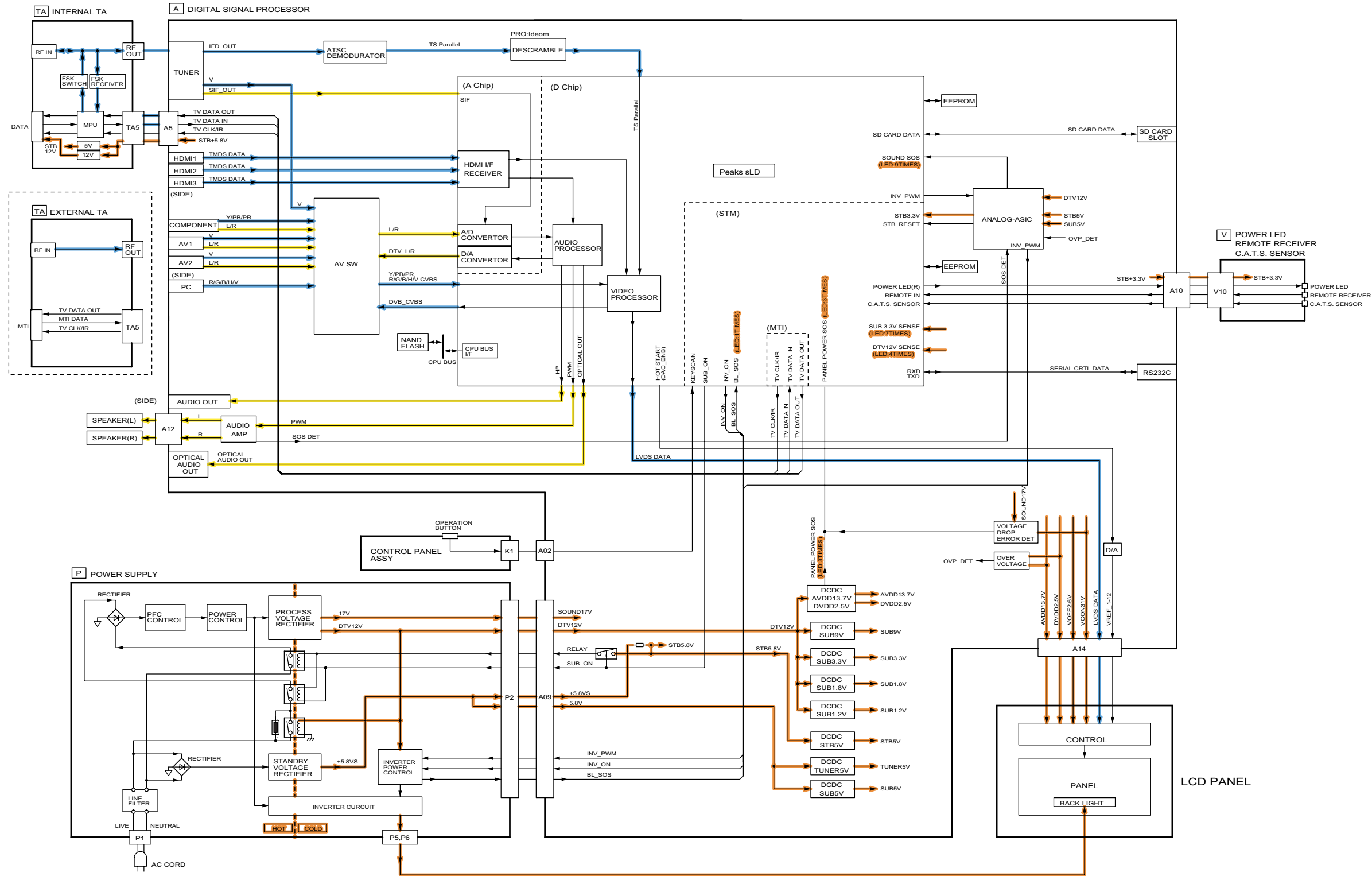
VOLTAGE	TEST POINT	SPECIFICATION (Reception state)
SUB1.8V	TP5601	1.74 - 1.90
SUB1.2V	TP5600	1.18 - 1.32
SUB3.3V	TP5602	3.19 - 3.46
SUB5V	TP5200	4.9 - 5.1
SUB9V	TP5220	8.82 - 9.18
STB5V	TP5400	4.9 - 5.1

8.2. 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 go to "ADJUST-CONTRAST" to adjust the picture level. Volume UP/DOWN key makes GAIN displayed under PICTURE to set. (The Sprit Color Bar Pattern)	

9 Block Diagram

9.1. Main Block Diagram

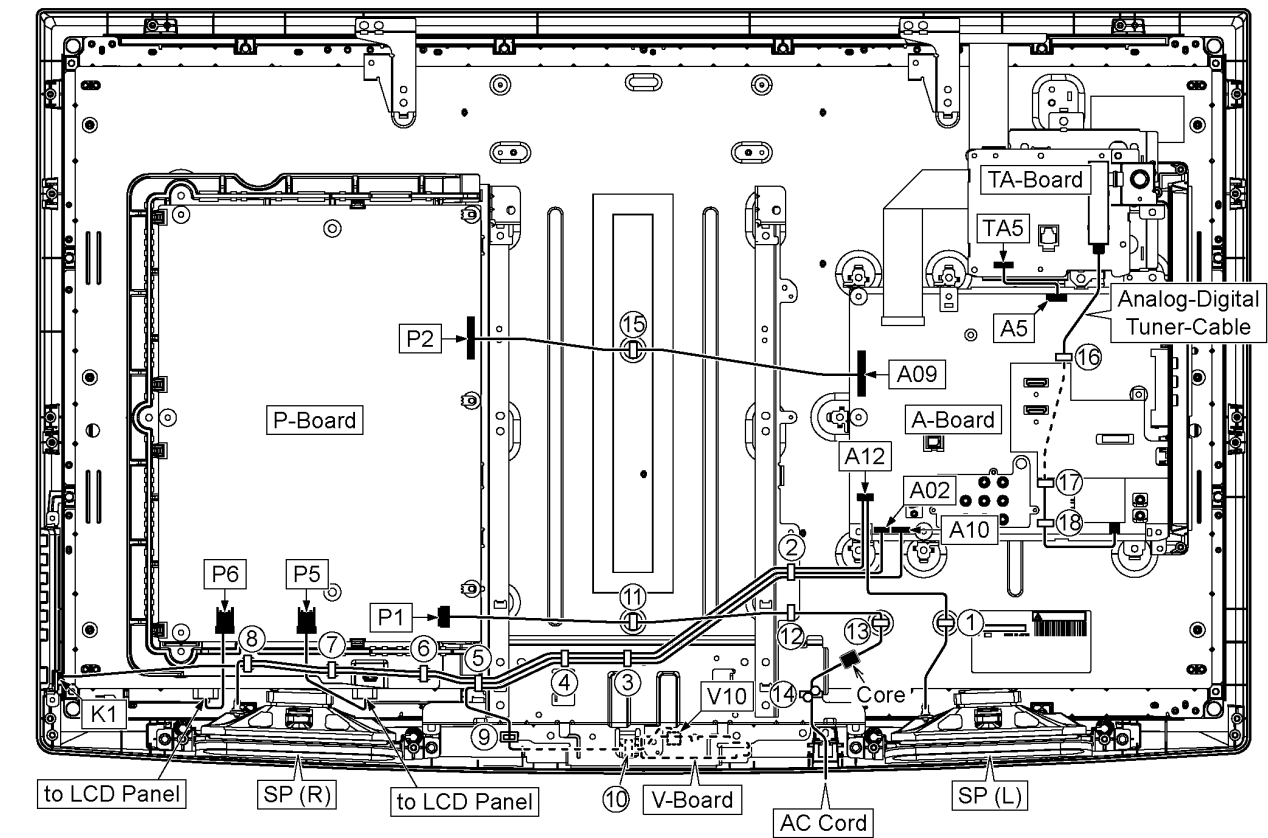






10 Wiring Connection Diagram

10.1. Wiring



Clamp position

CON:No - CON:No	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱
AC - P1											●	●	●	●				
A12 - SP (R)		●	●	●	●	●	●	●										
A12 - SP (L)	●																	
A10 - V10		●	●	●	●	●	●	●		●	●							
A02 - K1		●	●	●	●	●	●	●										
A09 - P2																●		
P5 - LCD Panel	No Clamp																	
P6 - LCD Panel	No Clamp																	
TA5 - A5	No Clamp																	
Analog-Digital Tuner-Cable																●	●	●

11 Schematic Diagram

11.1. Schematic Diagram Notes

Notes:

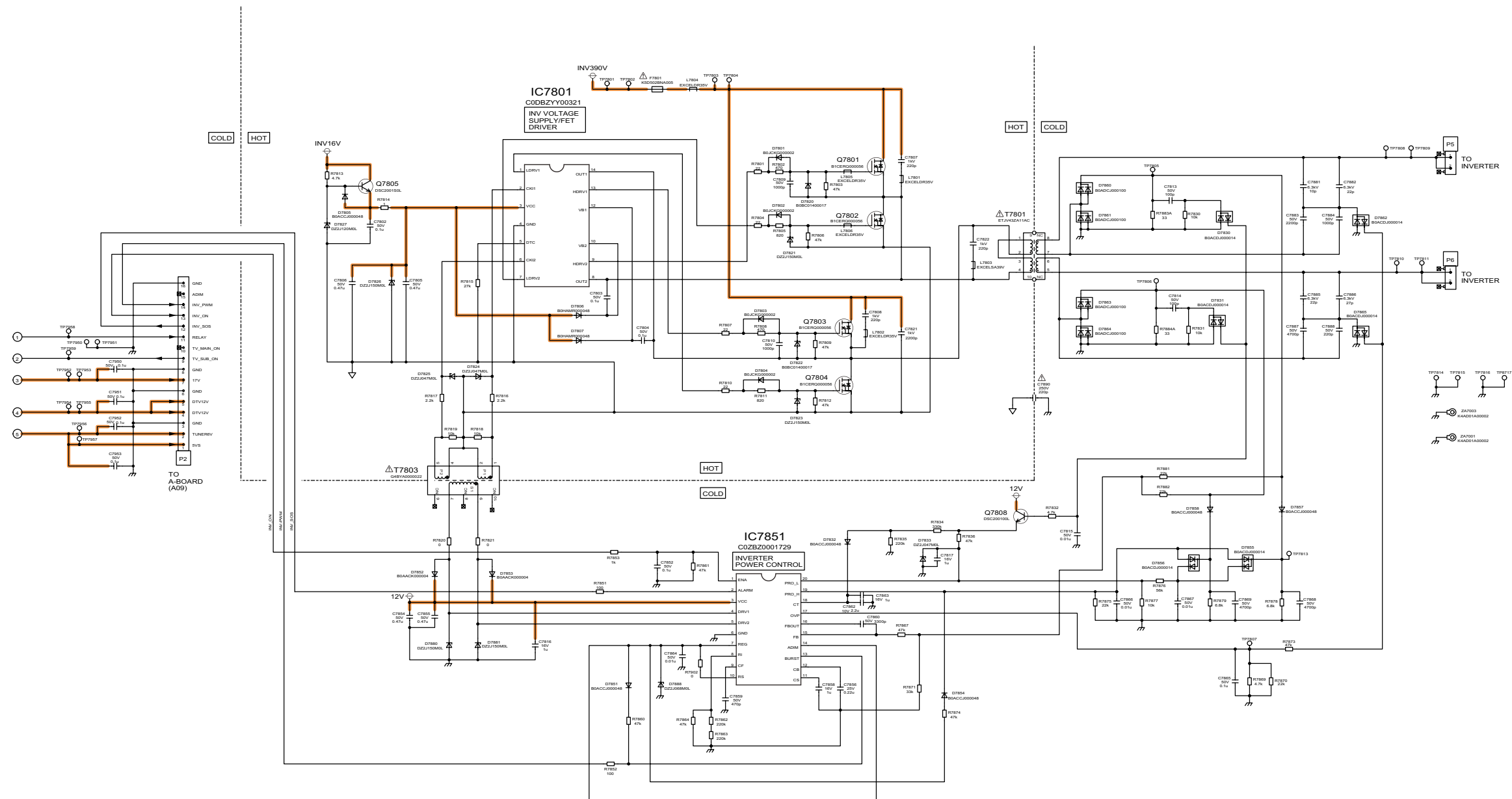
- 1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
- 2. **Capacitor**
Unit of capacitance is μ F, unless otherwise noted.
- 3. **Coil**
Unit of inductance is H, unless otherwise noted.
- 4. **Test Point**
 : Test Point position
- 5. **Earth Symbol**
 : Chassis Earth (Cold)  : Line Earth (Hot)
- 6. **Voltage Measurement**
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:
Power Source AC 110-127 V, 60 Hz
Receiving Signal Color 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 following precautions.
All circuits, except the Power Circuit, are cold.
Precautions
 - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.



11.3. P-Board (2 of 2) Schematic Diagram



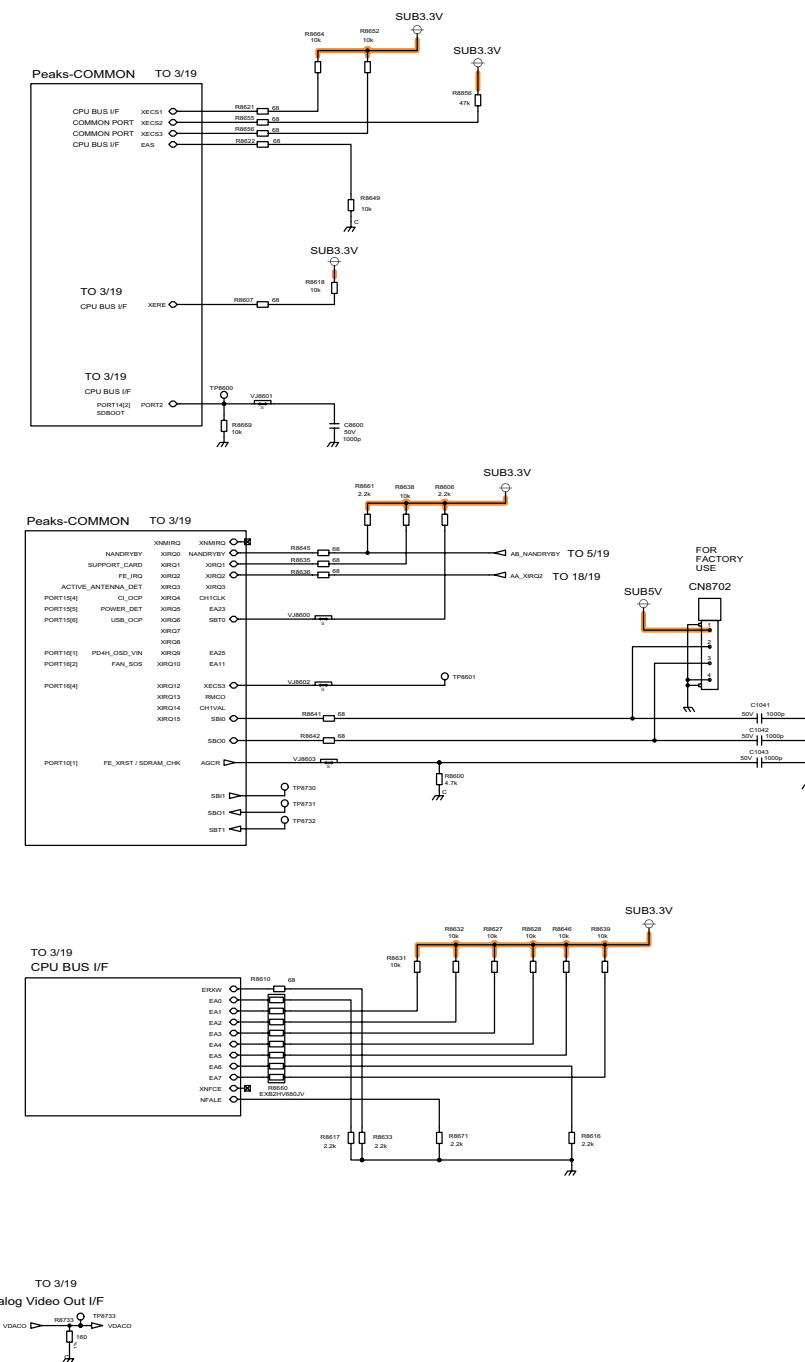
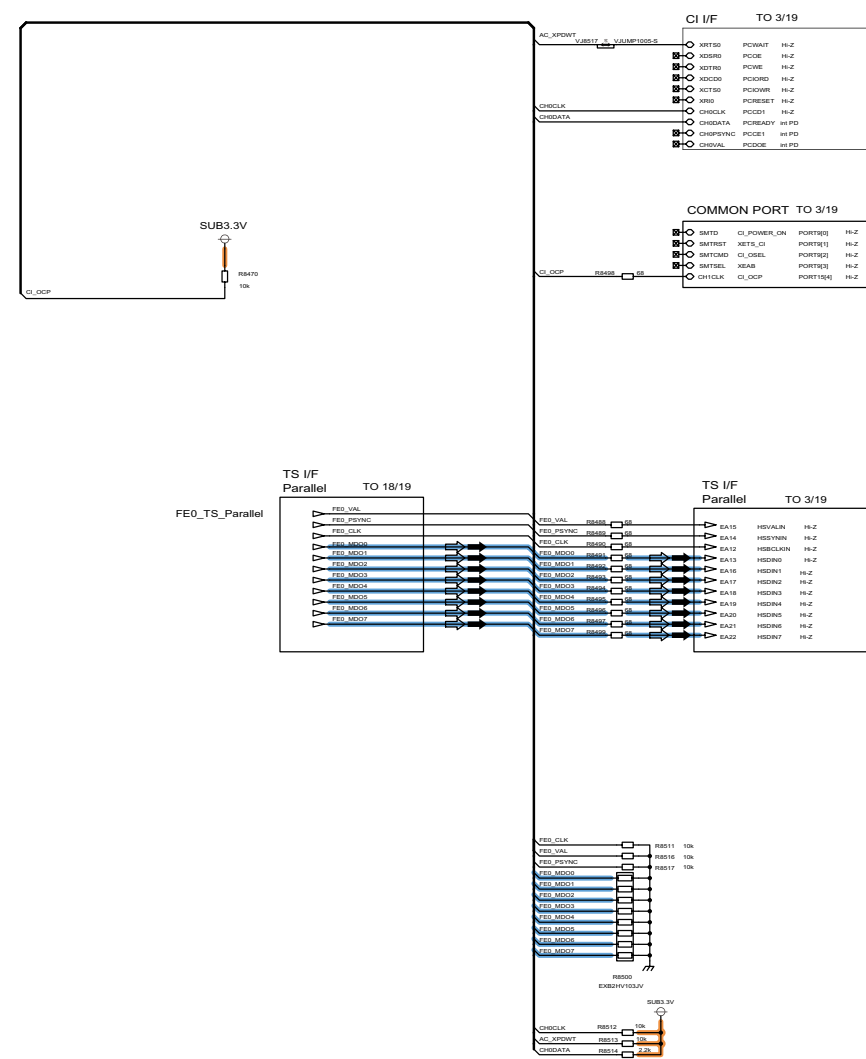
 P-BOARD TXN/P10QNM (2/2)



Peaks-COMMON



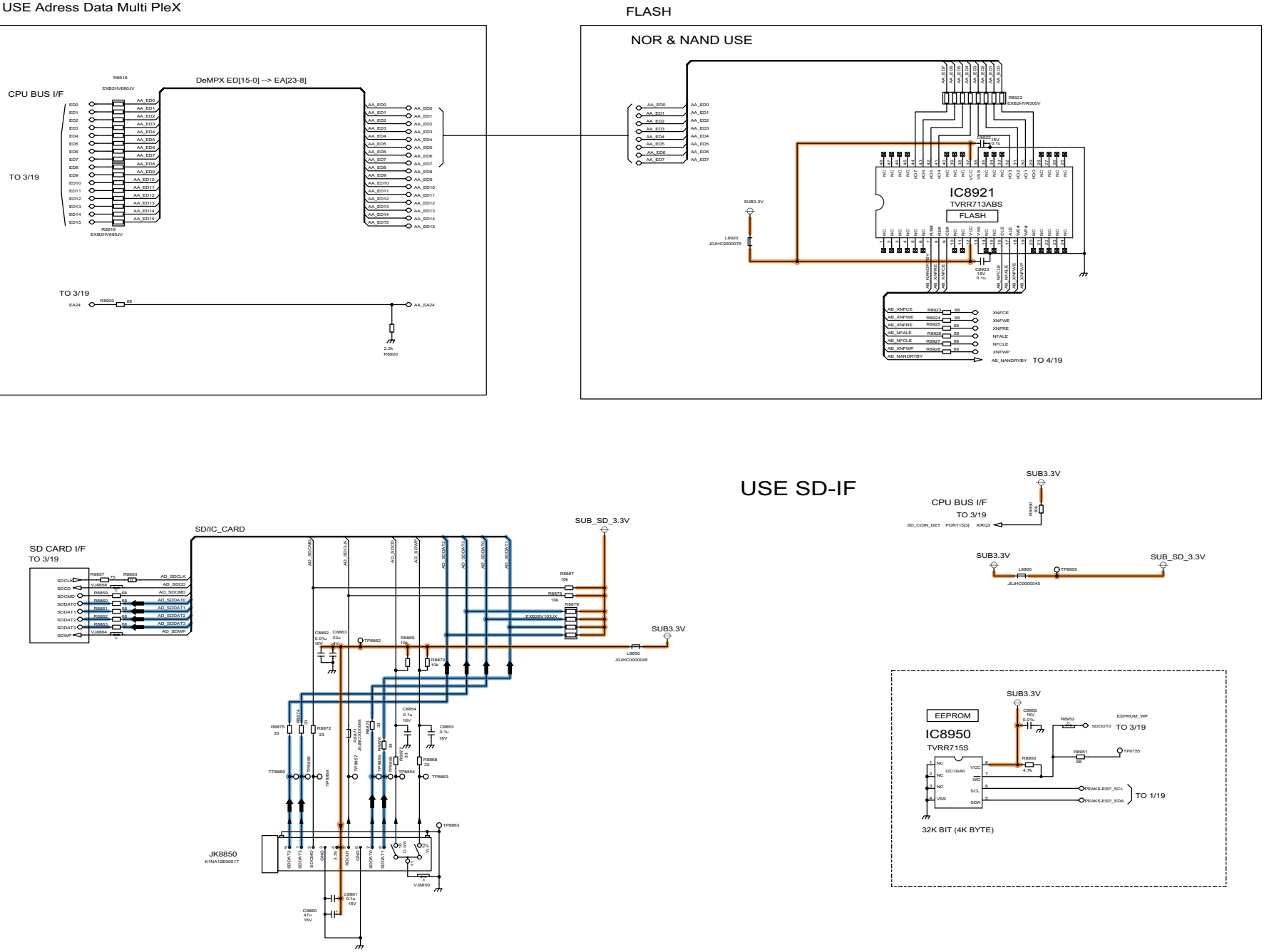




11.8. A-Board (5 of 19) Schematic Diagram

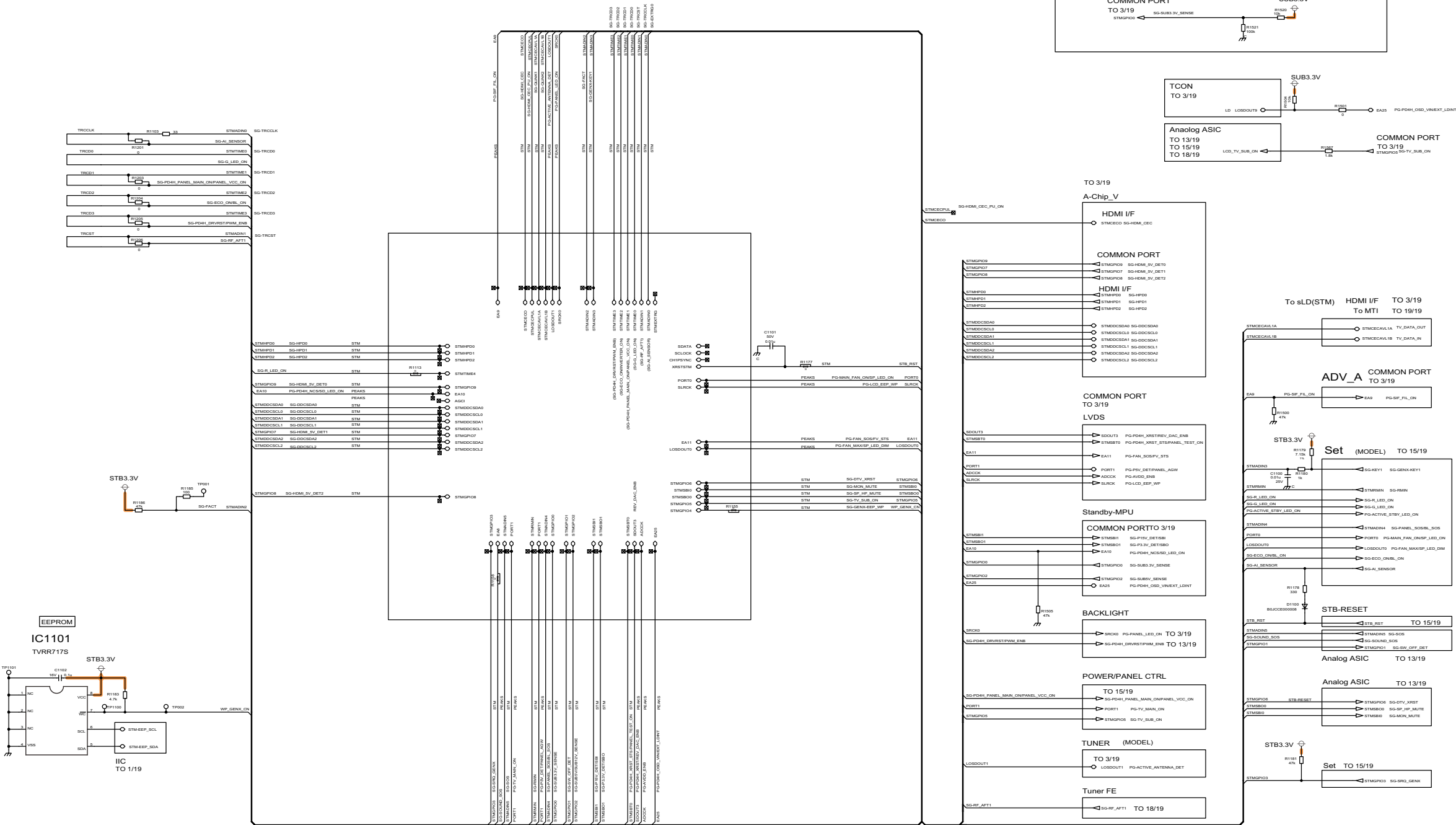
 A-BOARD TXN/A11NDUS (5/19)

SD CARD,FLASH MEMORY



11.9. A-Board (6 of 19) Schematic Diagram

 A-BOARD TXN/A11NDUS (6/19) sLD(STM)



46

47

48

49

50

51

52

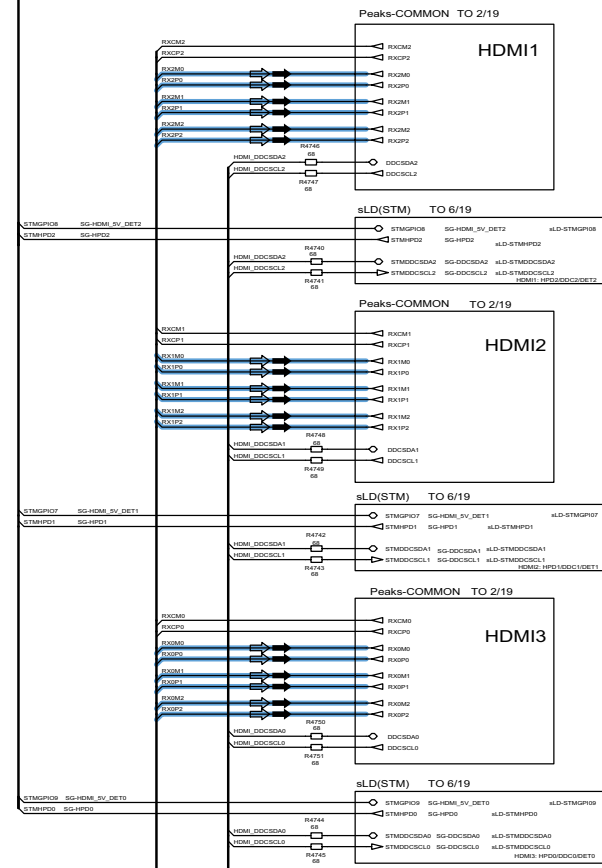
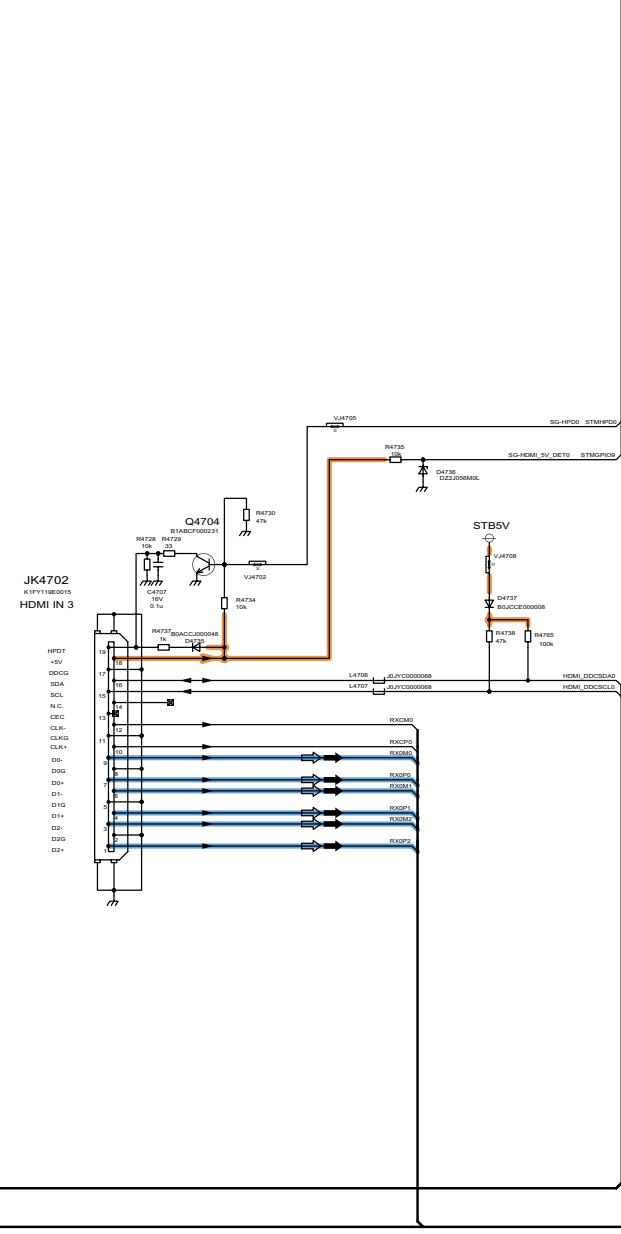
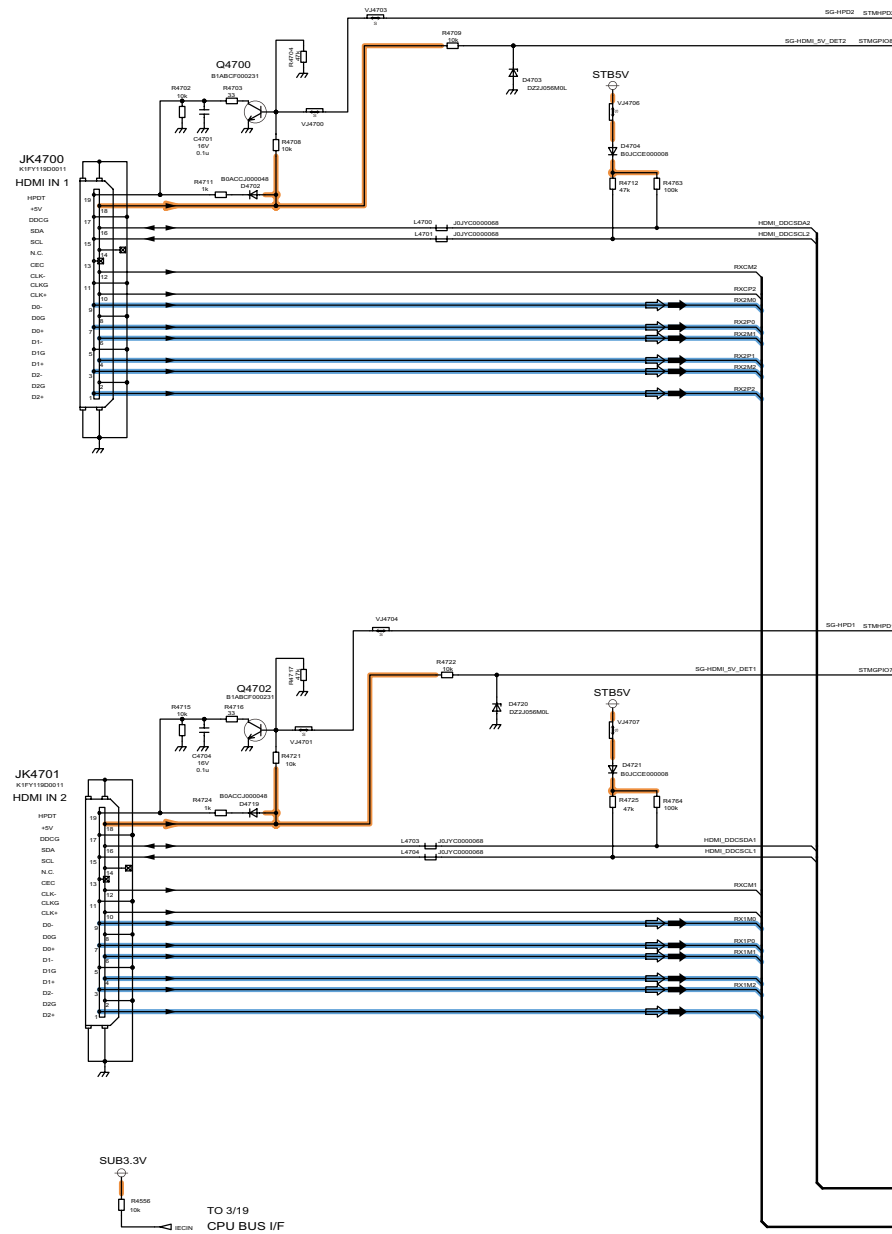
53

54



A-BOARD TXN/A11NDUS (7/19)

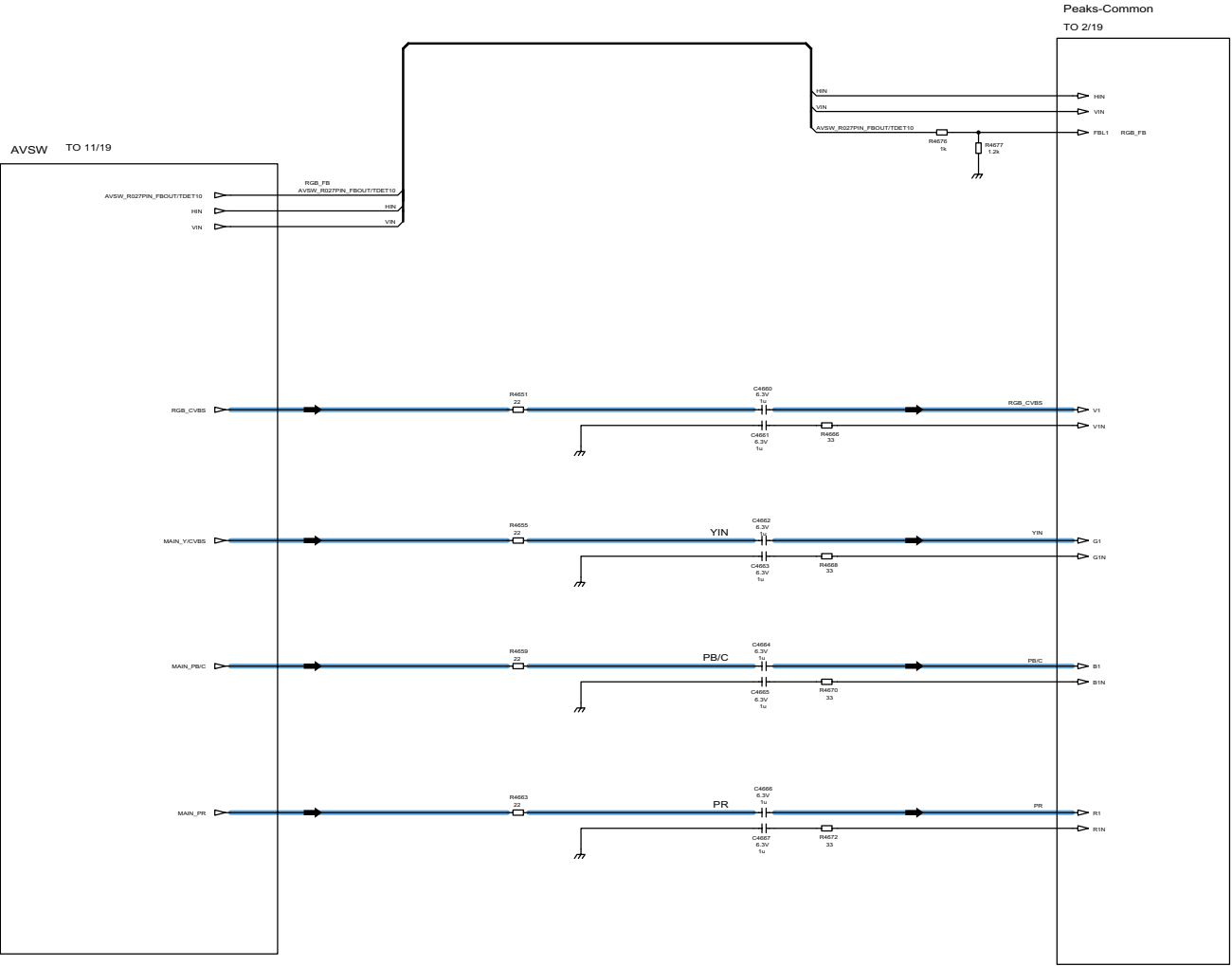
HDMI



11.11. A-Board (8 of 19) Schematic Diagram

!

A-BOARD TXN/A11NDUS (8/19)

AD Buffer

64

65

66

67

68

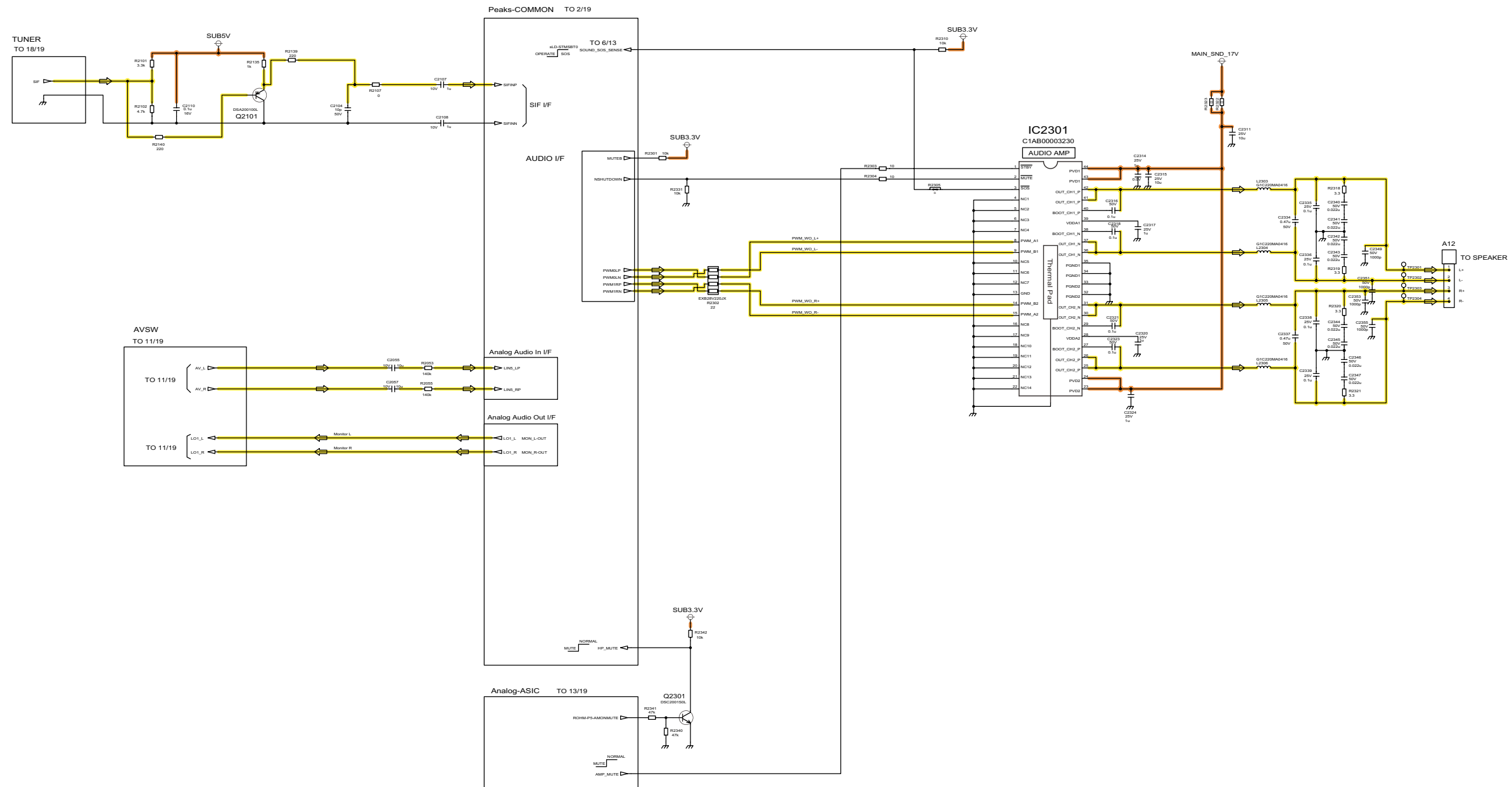
69

70

71

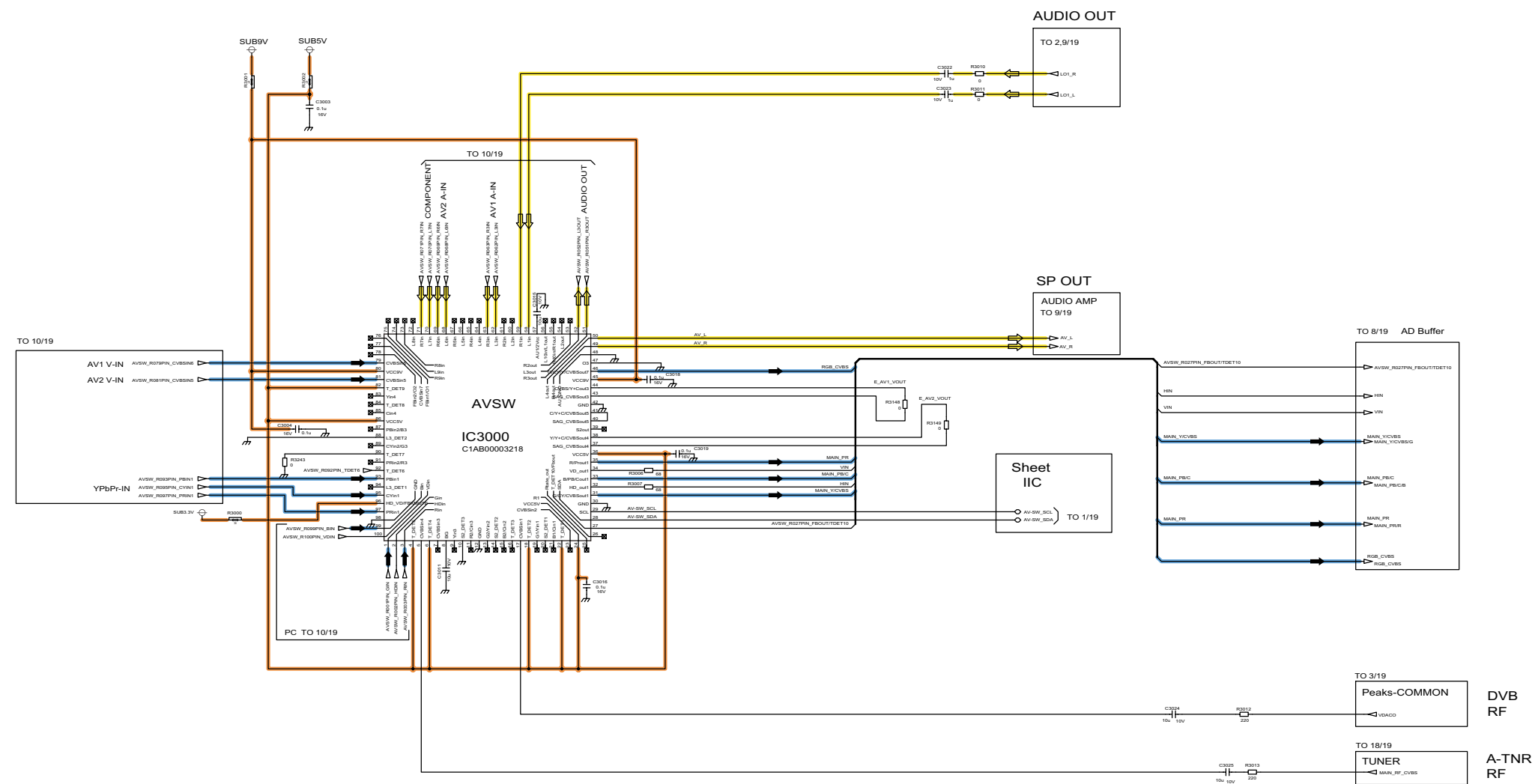
72

⚠ A-BOARD TXN/A11NDUS (9/19) AUDIO AMP

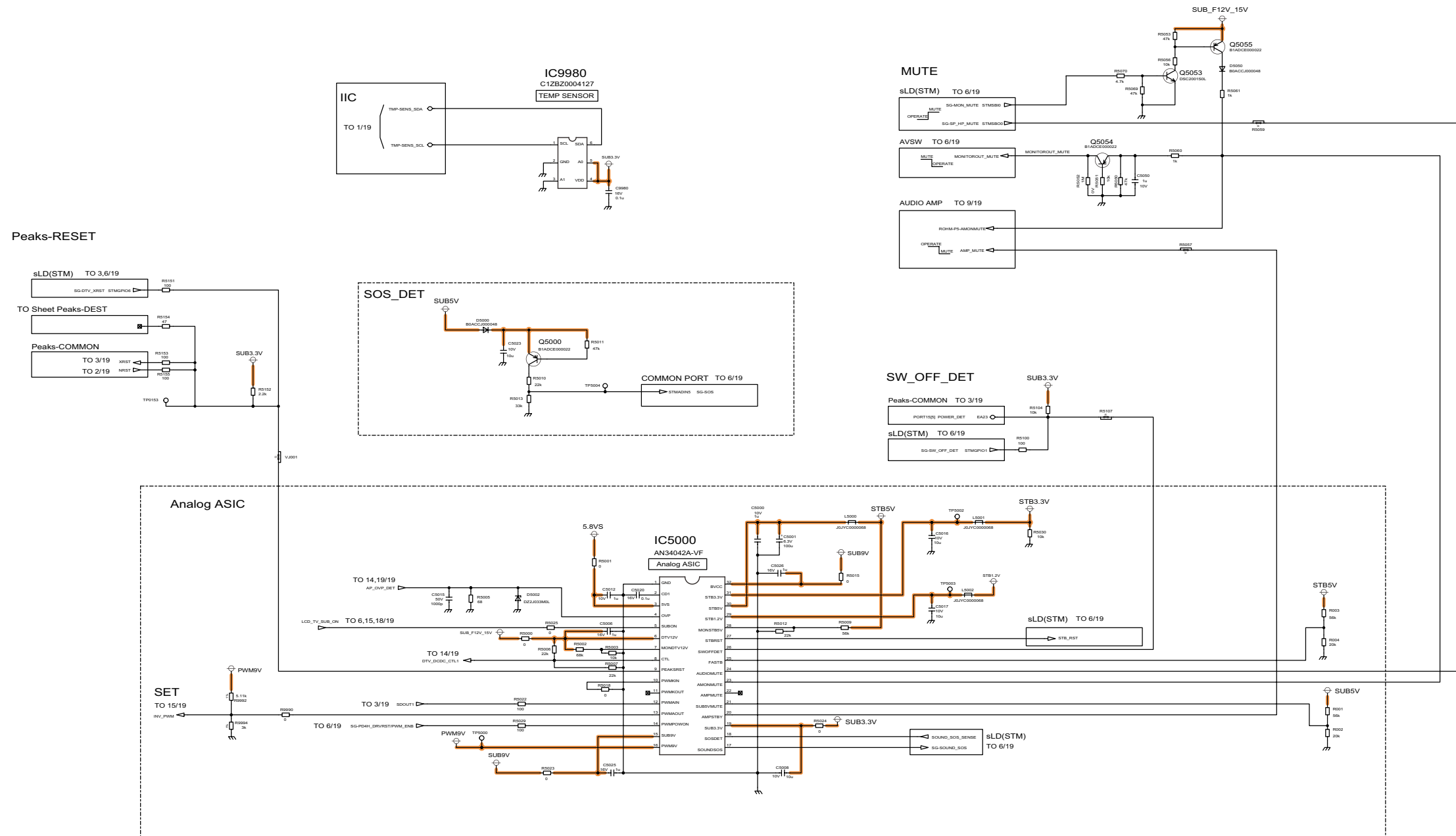


A-BOARD TXN/A11NDUS (11/19)

AV SW



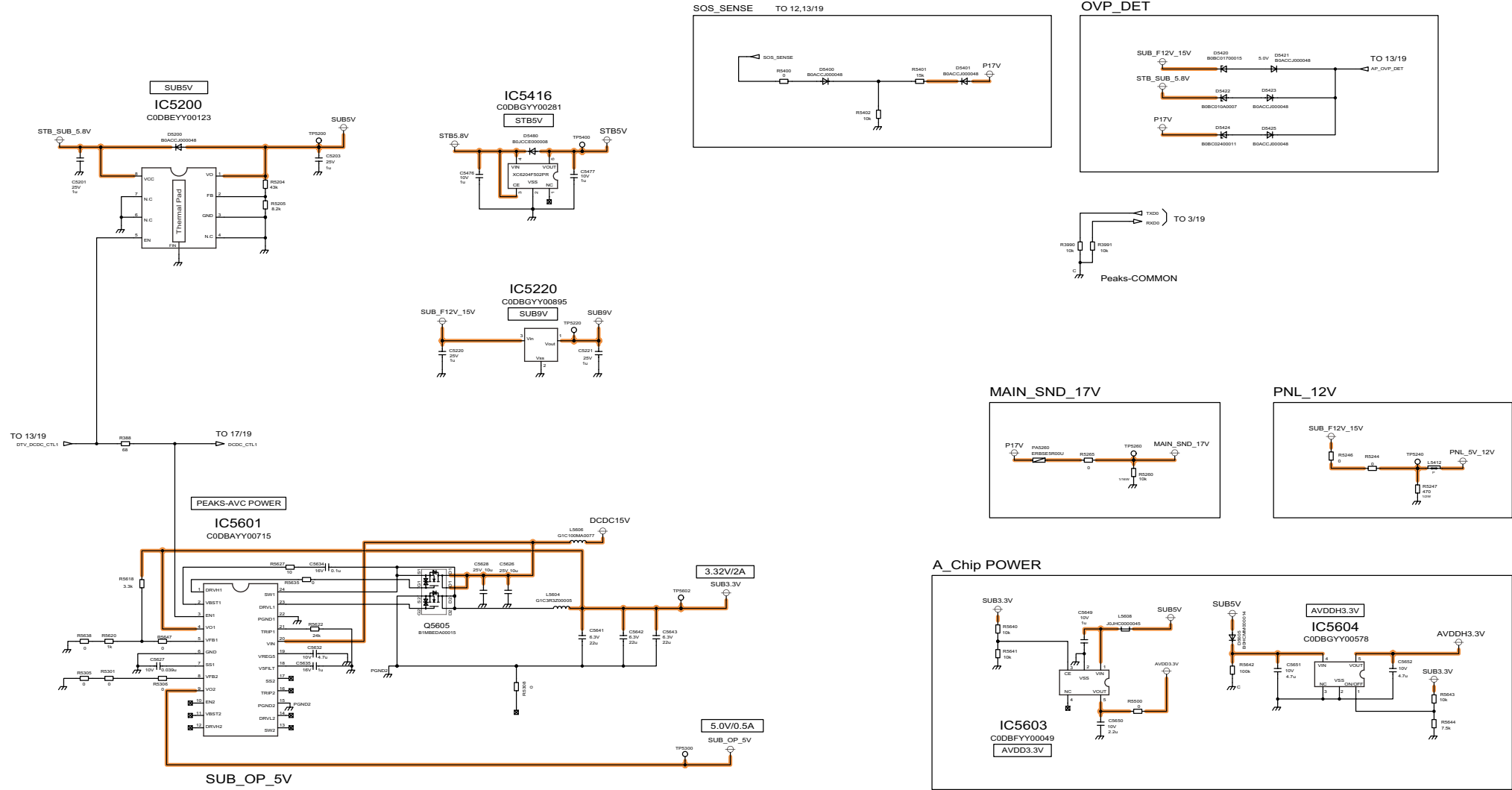


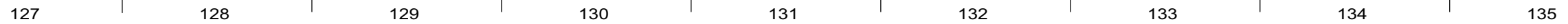


11.17. A-Board (14 of 19) Schematic Diagram

 A-BOARD TXN/A11NDUS (14/19)

Peaks POWER





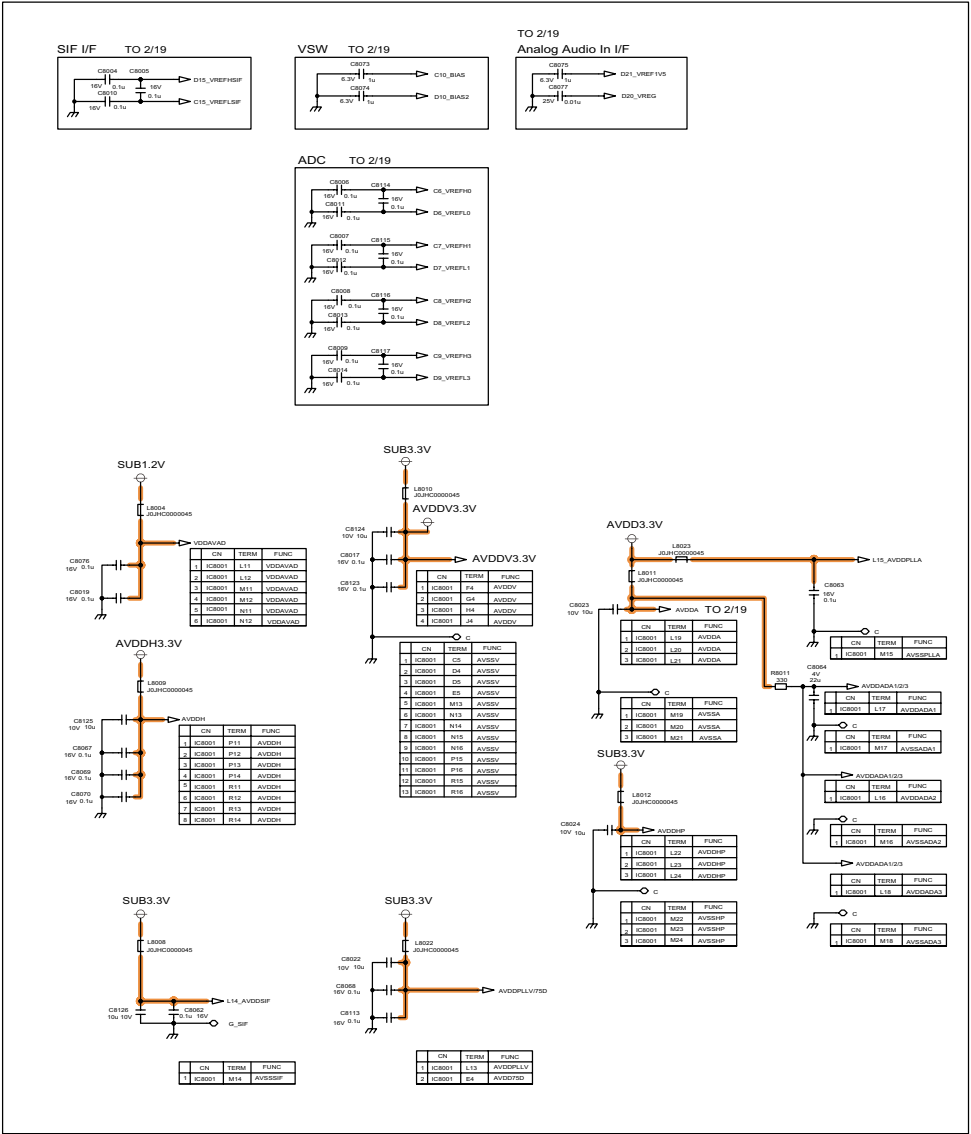
11.19. A-Board (16 of 19) Schematic Diagram



A-BOARD TXN/A11NDUS (16/19)

Pearks-COMMON POWER

Achip

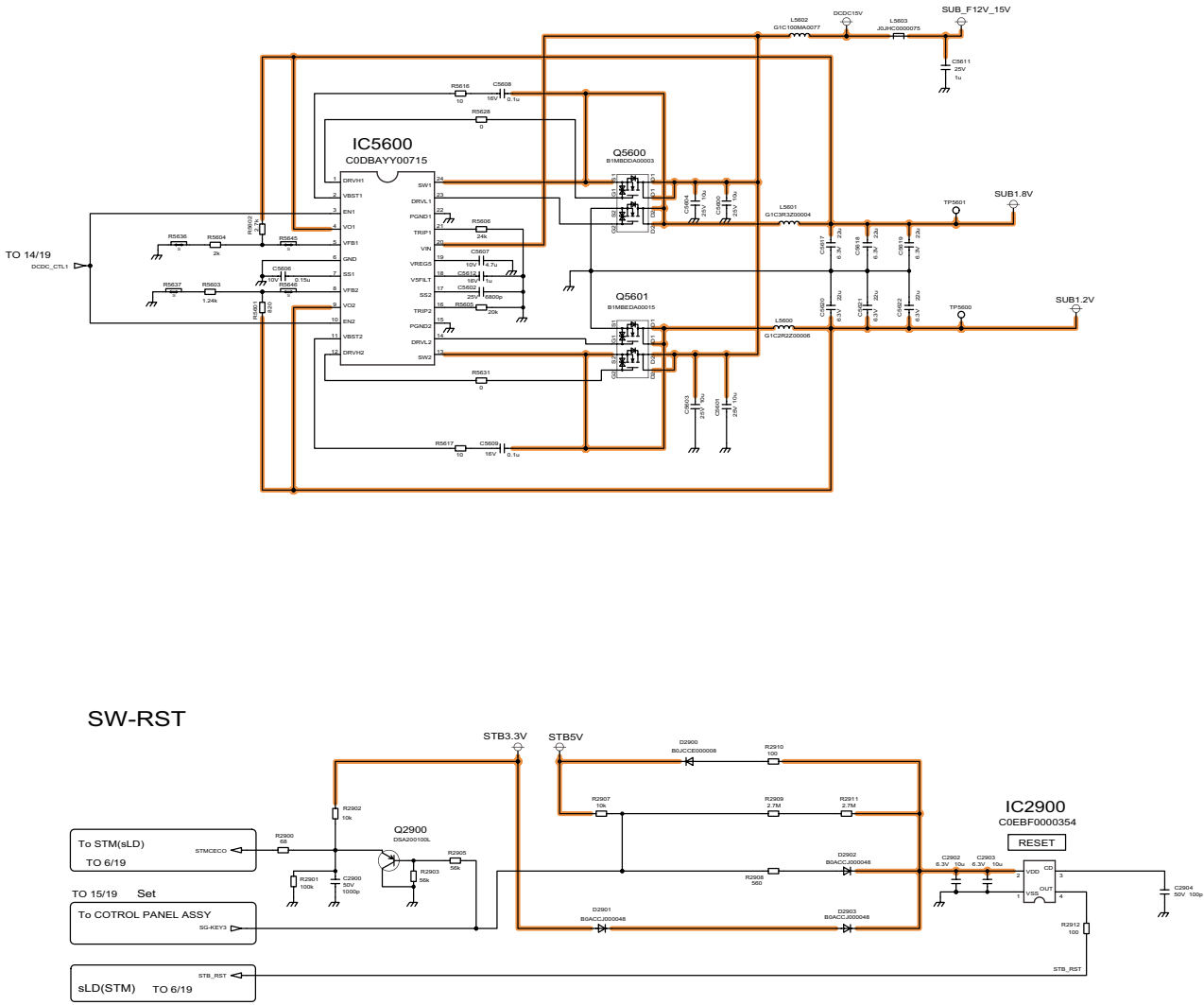


11.20. A-Board (17 of 19) Schematic Diagram

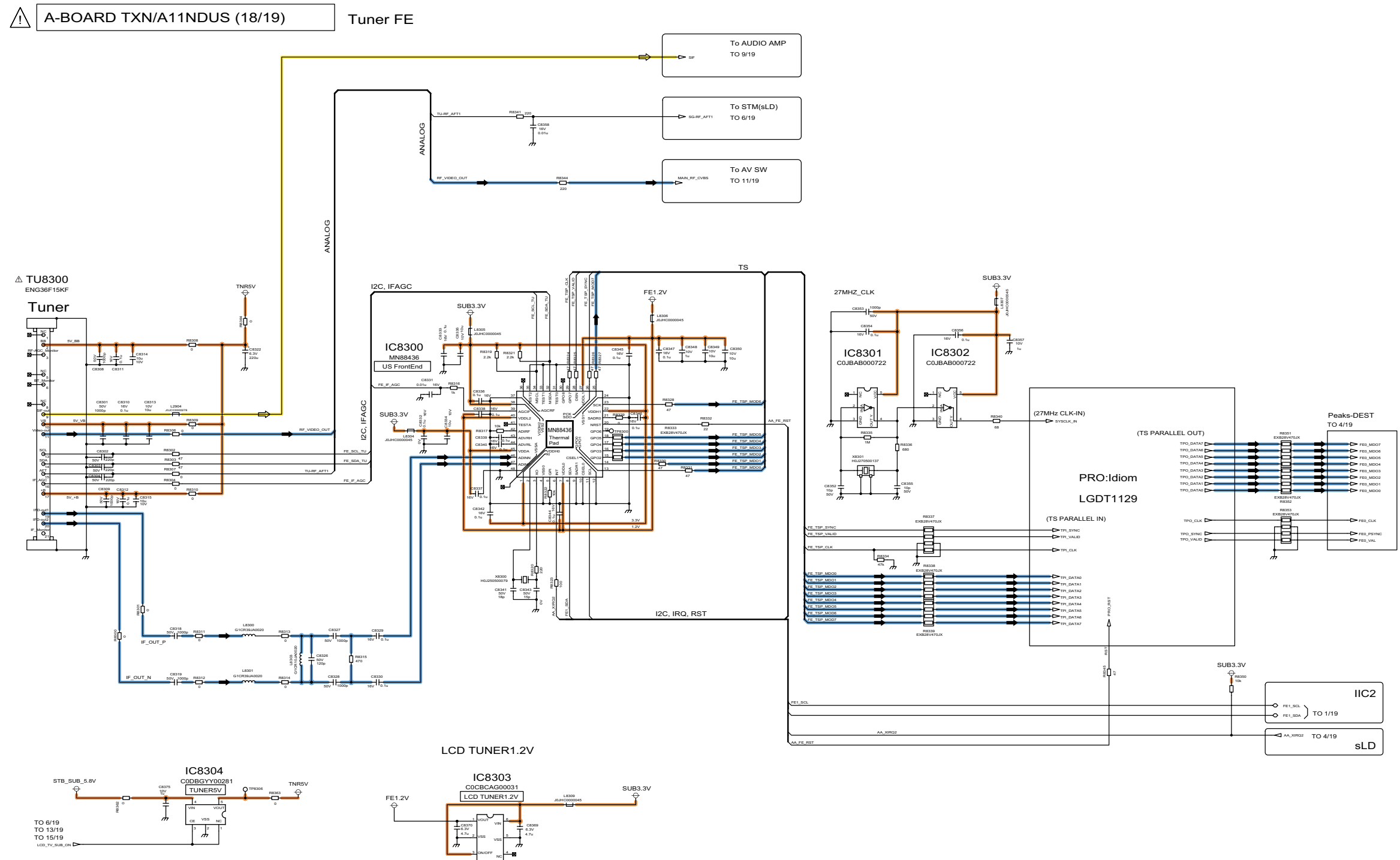
⚠

A-BOARD TXN/A11NDUS (17/19)

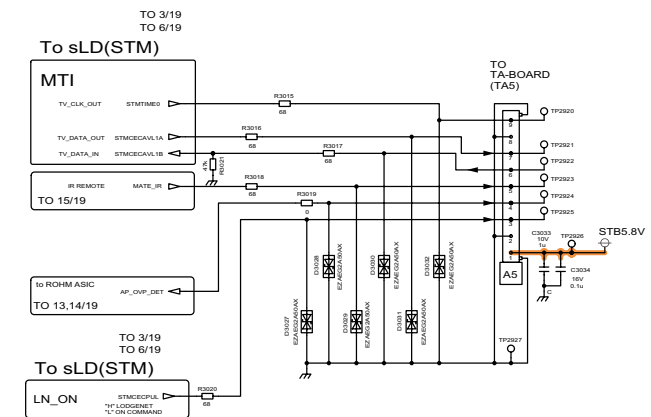
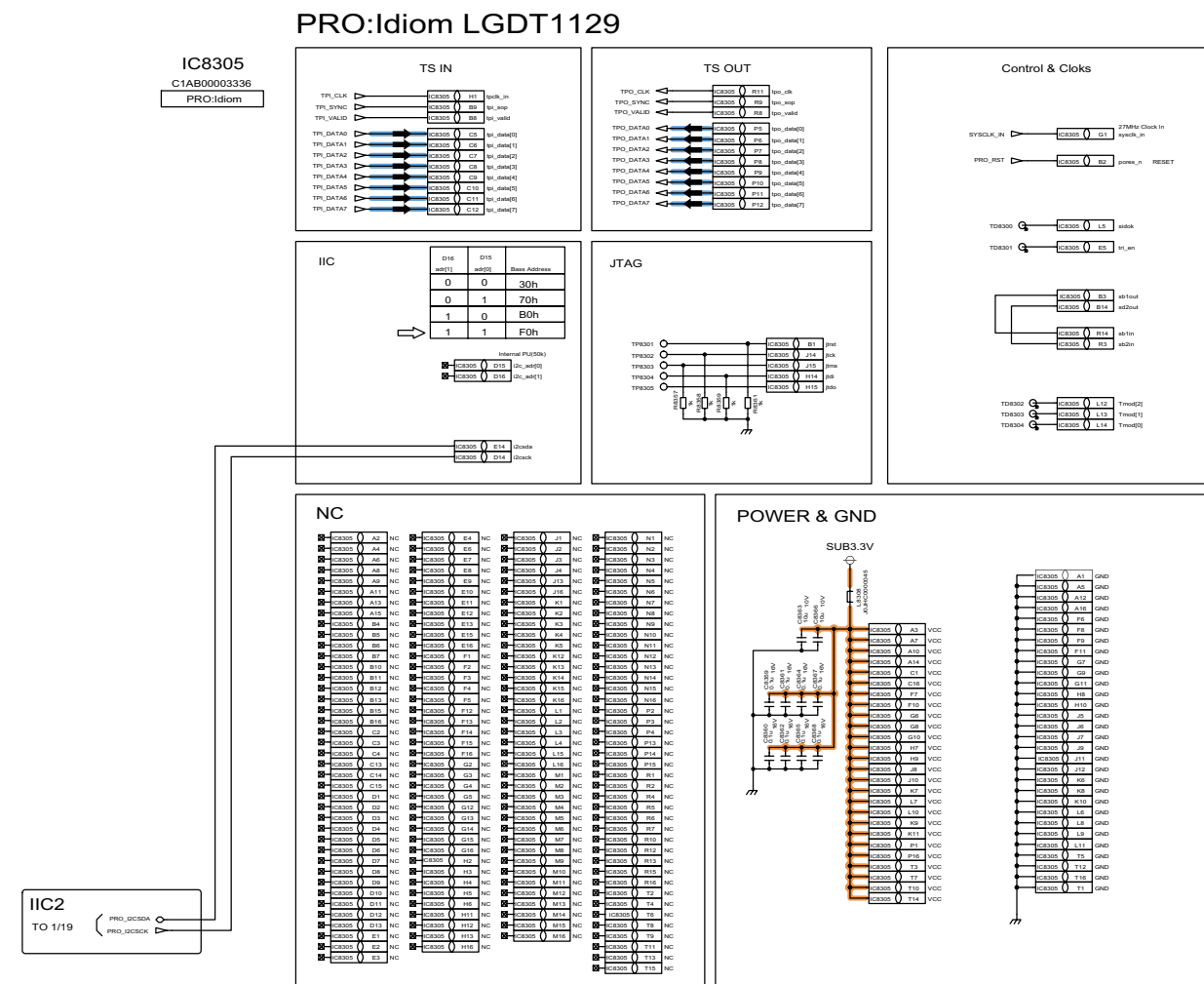
1.2/1.8V DCDC 2CH



11.21. A-Board (18 of 19) Schematic Diagram

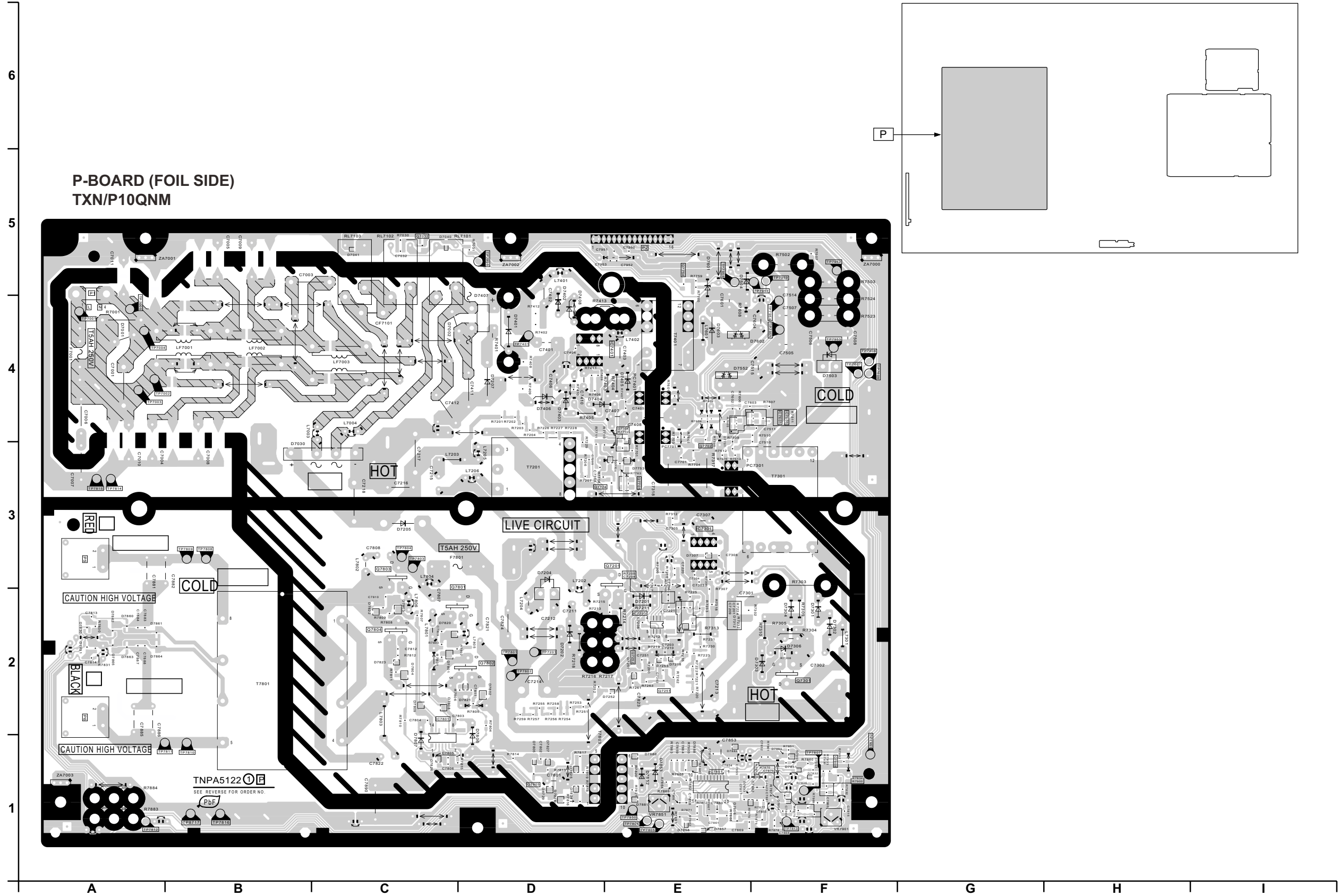


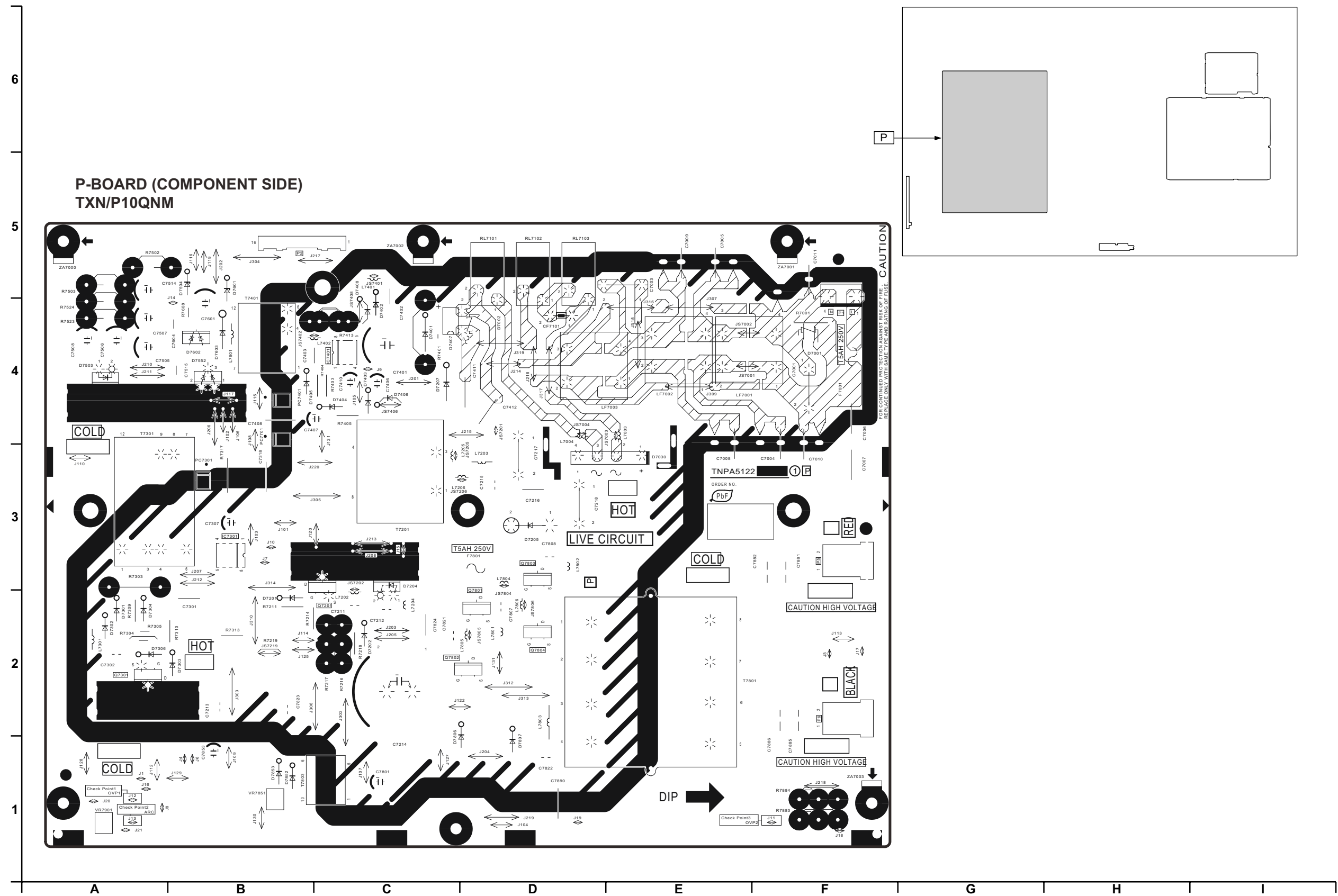
11.22. A-Board (19 of 19) Schematic Diagram



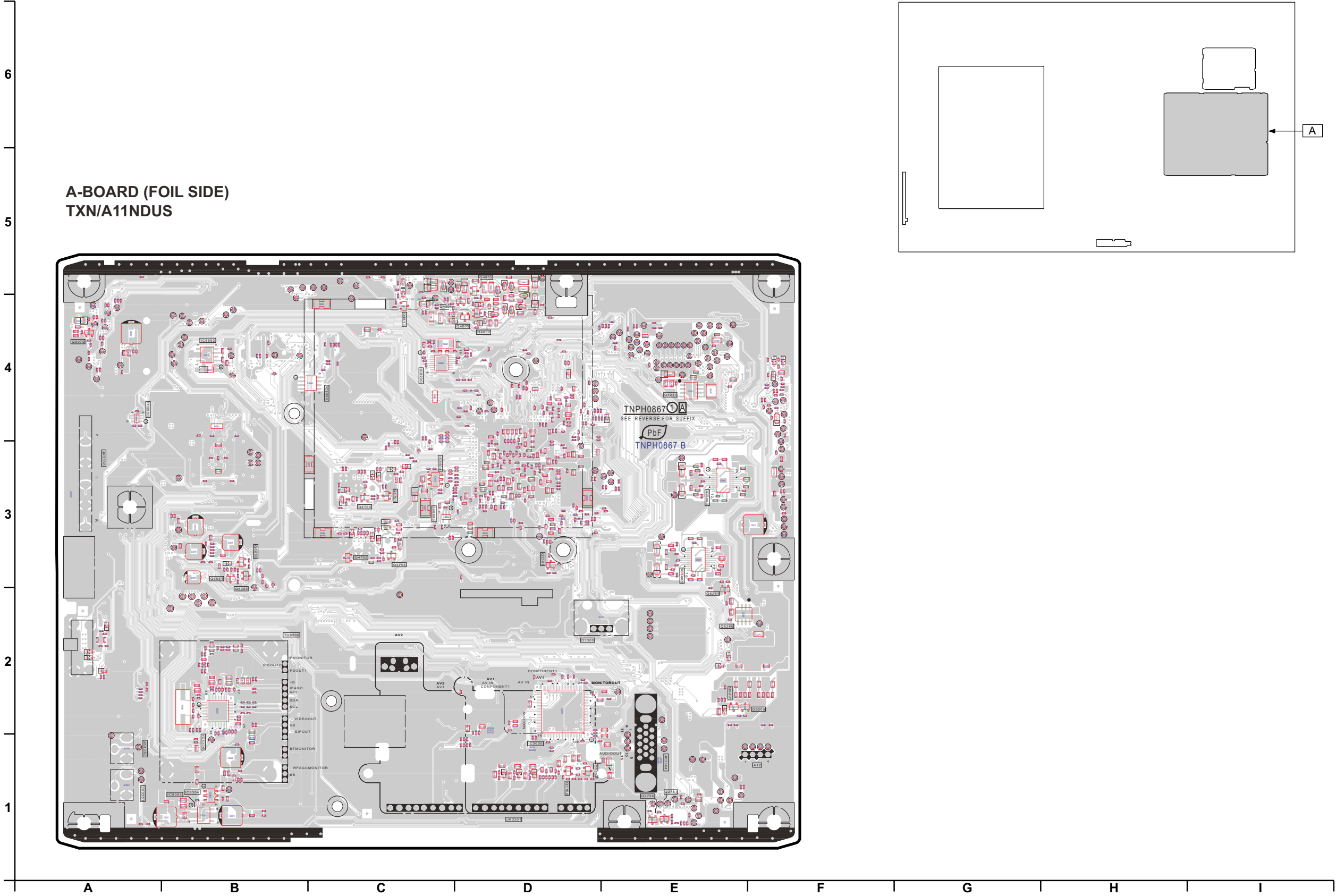
12 Printed Circuit Board

12.1. P-Board

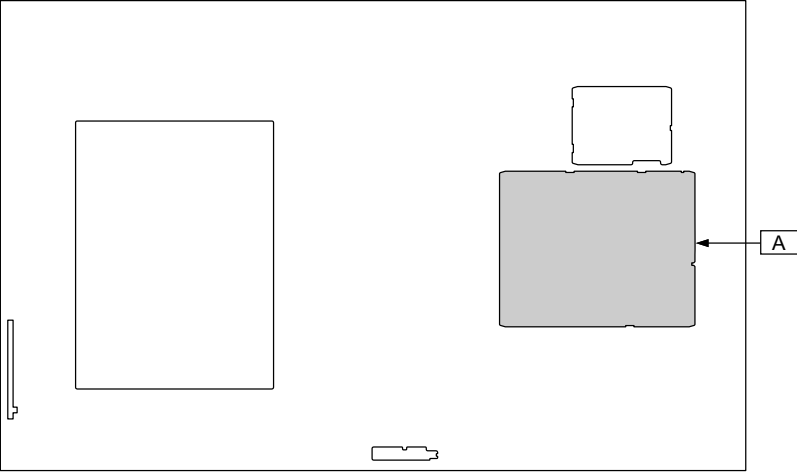
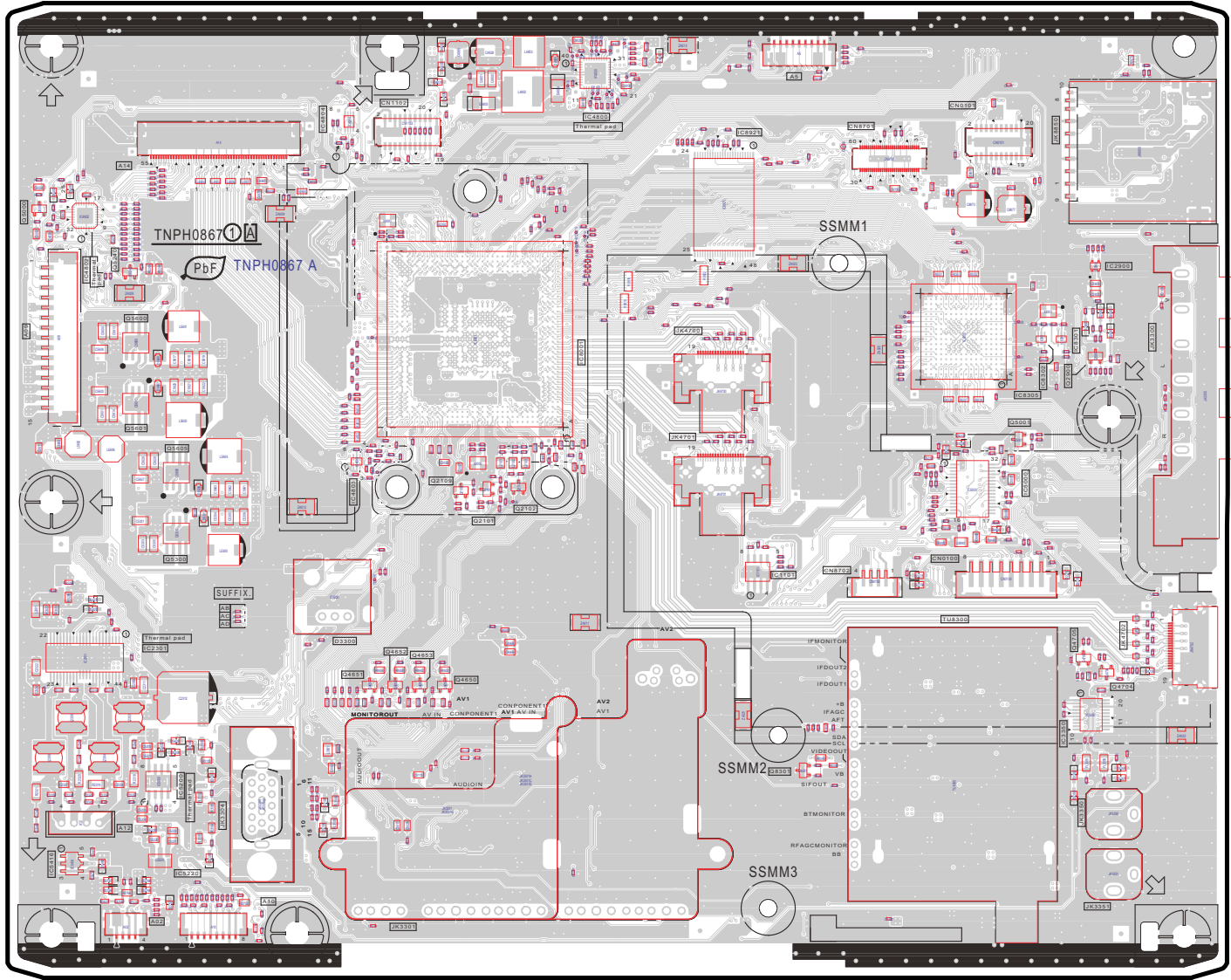




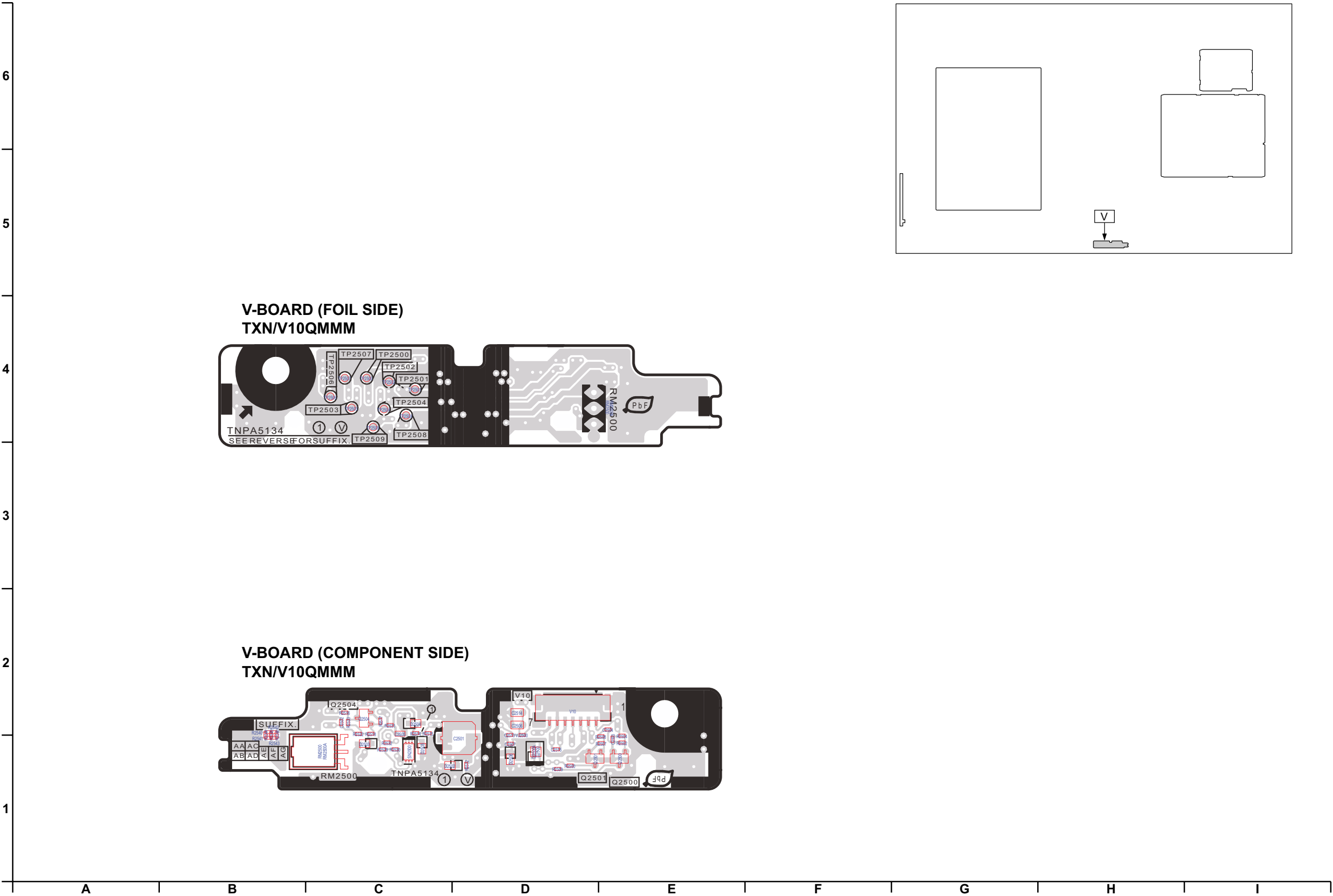
12.2. A-Board



A-BOARD (COMPONENT SIDE)
TXN/A11NDUS



12.3. V-Board



13 Exploded View and Replacement Parts List

13.1. Exploded View and Mechanical Replacement Parts List

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

13.2. Electrical Replacement Parts List

13.2.1. Replacement Parts List Notes

RTL (Retention Time Limited)

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

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

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

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polypropylene	G : ±3pF
T : Tantalum	J : ±5pF
	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	TXN/A11NDUS	CIRCUIT BOARD A	1	(RTL) PA VCA
△	PCB	TXN/P10QNM	CIRCUIT BOARD P	1	(RTL) PA VCA
△	PCB	TXN/V10QMM	CIRCUIT BOARD V	1	(RTL) PA VCA
△	PCB	TXNTA11MDUS	CIRCUIT BOARD TA	1	PAVCA
△	F7000.7801	K5D502BNA005	TIME LAG FUSE HIGH	2	
	PA2750	K5H4022A0031	FUSE	1	
	PA4800	K5H1622A0031	FUSE	1	
	PA4801, 02	ERBSE1R50U	FUSE	2	
	PA5260	ERBSE5R00U	FUSE	1	
	A02	K1KY04AA0719	CONNECTOR	1	
	A5	K1KY09AA0719	9P CONNECTOR	1	
	A09	K1KA15AA0409	15P CONNECTOR	1	PAVCA
	A10	K1KY08AA0719	8P CONNECTOR	1	
	A12	K1KA04AA0190	4P CONNECTOR	1	
	A14	K1MN55BA0076	55P CONNECTOR	1	
	C0900	F1G1C104A116	C 0.1UF 16V	1	
	C1041-43	F1G1H102A730	C 1000PF 50V	3	
	C1100	F1G1E103A123	C 0.01UF 25V	1	
	C1101	F1H1H103A970	C 0.01 uF 50 V	1	
	C1102	F1G1C104A116	C 0.1UF 16V	1	
	C2055	F1J1A106A087	C 10UF, 10V	1	
	C2057	F1J1A106A087	C 10UF, 10V	1	
	C2104	F1G1H100A731	C 10PF 50V	1	
	C2107,08	F1G1A105A047	C 1UF 10V	2	
	C2110	F1G1C104A116	C 0.1UF 16V	1	
	C2311	F1K1E106A136	C 10UF, 25V	1	
	C2314	F1J1E105A231	C 1 UF 25V	1	
	C2315	F1K1E106A136	C 10UF, 25V	1	
	C2316	F1H1H104A970	C 0.1UF, 50V	1	
	C2317	F1J1E105A231	C 1 UF 25V	1	
	C2318	F1H1H104A970	C 0.1UF, 50V	1	
	C2320	F1J1E105A231	C 1 UF 25V	1	
	C2321	F1H1H104A970	C 0.1UF, 50V	1	
	C2323	F1H1H104A970	C 0.1UF, 50V	1	
	C2324	F1J1E105A231	C 1 UF 25V	1	
	C2334	F1J1H474A757	C 0.47UF, 50V	1	
	C2335,36	F1H1E104A129	C 0.1 uF 25 V	2	
	C2337	F1J1H474A757	C 0.47UF, 50V	1	
	C2338,39	F1H1E104A129	C 0.1 uF 25 V	2	
	C2340-47	F1H1H223A970	C 0.022UF, 50V	8	
	C2349	F1G1H102A730	C 1000PF 50V	1	
	C2351	F1G1H102A730	C 1000PF 50V	1	
	C2353	F1G1H102A730	C 1000PF 50V	1	
	C2355	F1G1H102A730	C 1000PF 50V	1	
	C2501	F2G0J470A019	E 47UF 6.3V	1	
	C2502	F1G1C103A116	C 0.01UF 16V	1	
	C2505	F1H1C104A143	C 0.1UF, 16V	1	
	C2514	F1J1A106A087	C 10UF, 10V	1	
	C2750	F1G1C104A116	C 0.1UF 16V	1	
	C2751-53	F1G1H102A730	C 1000PF 50V	3	
	C2755-57	F1G1H102A730	C 1000PF 50V	3	
	C2761	F1G1C104A116	C 0.1UF 16V	1	
	C2762	F1G1H102A730	C 1000PF 50V	1	
	C2775	F1G1H101A731	C 100PF 50V	1	
	C2776,77	F1G1H102A730	C 1000PF 50V	2	
	C2778	F1G1C104A116	C 0.1UF 16V	1	
	C2779	F1K1C106A126	C 10UF, 16V	1	
	C2780	F1H1E104A129	C 0.1 uF 25 V	1	
	C2789	F1G1C104A116	C 0.1UF 16V	1	
	C2798	F1G1C103A116	C 0.01UF 16V	1	
	C2900	F1H1H102A971	C 1000PF, 50V	1	
	C2902,03	F1J0J106A004	C 10 UF 6.3 V	2	
	C2904	F1G1H101A731	C 100PF 50V	1	
	C3003,04	F1G1C104A116	C 0.1UF 16V	2	
	C3011	F1J1A106A087	C 10UF, 10V	1	
	C3015	F1J1A106A087	C 10UF, 10V	1	
	C3016	F1G1C104A116	C 0.1UF 16V	1	
	C3018,19	F1G1C104A116	C 0.1UF 16V	2	
	C3022,23	ECJ1VB1A105K	C 1UF, 10V	2	
	C3024,25	F1J1A106A087	C 10UF, 10V	2	
	C3033	ECJ1VB1A105K	C 1UF, 10V	1	
	C3034	F1G1C104A116	C 0.1UF 16V	1	
	C3105,06	F1G1H561A730	C 560 pF 50 V	2	
	C3111,12	ECJ1VB1A105K	C 1UF, 10V	2	
	C3113	F1J1A106A087	C 10UF, 10V	1	
	C3116-18	F1J1A106A087	C 10UF, 10V	3	
	C3123	F1J1A106A087	C 10UF, 10V	1	
	C3137,38	F1G1H561A730	C 560 pF 50 V	2	
	C3149,50	ECJ1VB1A105K	C 1UF, 10V	2	
	C3153-56	F1G1H561A730	C 560 pF 50 V	4	
	C3157,58	ECJ1VB1A105K	C 1UF, 10V	2	
	C3159-65	F1J1A106A087	C 10UF, 10V	7	
	C3350	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C3351-54	F1G1C104A116	C 0.1UF 16V	4	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C4660-67	ECJ1VB0J105K	C 1UF, 6.3V	8	
	C4701	F1G1C104A116	C 0.1UF 16V	1	
	C4704	F1G1C104A116	C 0.1UF 16V	1	
	C4707	F1G1C104A116	C 0.1UF 16V	1	
	C4801	F1K1E106A136	C 10UF, 25V	1	
	C4802	F1H1H473A970	C 0.47PF, 50V	1	
	C4803	F1H1H104A970	C 0.1UF, , 50V	1	
	C4804	F1G1H330A731	C 33PF, 50V	1	
	C4805	F1H1H473A970	C 0.47PF, 50V	1	
	C4806	F1H1H104A970	C 0.1UF, , 50V	1	
	C4807	F1G1H332A730	C 3300PF, 50V	1	
	C4808	F1G1C104A116	C 0.1UF 16V	1	
	C4809	F1J1E105A231	C 1 UF 25V	1	
	C4810	F1K1E225A085	C 2.2UF, 25V	1	
	C4811	F1G1H101A731	C 100PF 50V	1	
	C4812	F1H1H473A970	C 0.47PF, 50V	1	
	C4813	F1H1H104A970	C 0.1UF, , 50V	1	
	C4814	F1H1H473A970	C 0.47PF, 50V	1	
	C4815	F1H1H104A970	C 0.1UF, , 50V	1	
	C4816	F1K1E225A085	C 2.2UF, 25V	1	
	C4817	F1J1E105A231	C 1 UF 25V	1	
	C4818-20	F1J1C475A170	C 4.7UF, K, 16V	3	
	C4821	F1H1H104A970	C 0.1UF, , 50V	1	
	C4822	F1G1C104A116	C 0.1UF 16V	1	
	C4823	F1H1H104A970	C 0.1UF, , 50V	1	
	C4824	F1G1C104A116	C 0.1UF 16V	1	
	C4825	F1G1A105A047	C 1UF 10V	1	
	C4826	F1G1H102A730	C 1000PF 50V	1	
	C4827	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C4828	F2H0J1010009	C 100UF, 6.3V	1	
	C4829	F1G1H330A731	C 33PF, 50V	1	
	C4830,31	F1K1E106A136	C 10UF, 25V	2	
	C4832	F1G1A105A047	C 1UF 10V	1	
	C4833	F1G1C104A116	C 0.1UF 16V	1	
	C4834	F1H1H104A970	C 0.1UF, , 50V	1	
	C4838	F1J1E105A231	C 1 UF 25V	1	
	C4844	F1G1C104A116	C 0.1UF 16V	1	
	C4845	F1G1H101A731	C 100PF 50V	1	
	C4847-49	F1G1C104A116	C 0.1UF 16V	3	
	C4851	F1G1C104A116	C 0.1UF 16V	1	
	C4853	F1G1C104A116	C 0.1UF 16V	1	
	C4854	F1J1A106A087	C 10UF, 10V	1	
	C4855-59	F1G1C104A116	C 0.1UF 16V	5	
	C4860	F1K1E106A136	C 10UF, 25V	1	
	C4861	F1J1A106A087	C 10UF, 10V	1	
	C4863,64	F1K1E225A085	C 2.2UF, 25V	2	
	C4872,73	F1H1H104A970	C 0.1UF, , 50V	2	
	C4878	F1J1A106A087	C 10UF, 10V	1	
	C4887	F1H1H104A970	C 0.1UF, , 50V	1	
	C4888	F1G1H102A730	C 1000PF 50V	1	
	C4891	F1G1H102A730	C 1000PF 50V	1	
	C5000	ECJ1VB1A105K	C 1UF, 10V	1	
	C5001	F2H0J1010009	C 100UF, 6.3V	1	
	C5006	F1H1C105A145	C 1 uF 16 V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C5008	F1J1A106A087	C 10UF, 10V	1	
	C5012	ECJ1VB1A105K	C 1UF, 10V	1	
	C5015	F1G1H102A730	C 1000PF 50V	1	
	C5016,17	F1J1A106A087	C 10UF, 10V	2	
	C5020	F1G1C104A116	C 0.1UF 16V	1	
	C5023	F1J1A106A087	C 10UF, 10V	1	
	C5025,26	F1H1C105A145	C 1 uF 16 V	2	
	C5050	ECJ1VB1A105K	C 1UF, 10V	1	
	C5201	F1J1E105A231	C 1 UF 25V	1	
	C5203	F1J1E105A231	C 1 UF 25V	1	
	C5220,21	F1J1E105A231	C 1 UF 25V	2	
	C5476,77	ECJ1VB1A105K	C 1UF, 10V	2	
	C5600,01	F1K1E106A136	C 10UF, 25V	2	
	C5602	F1G1E682A123	C 6800 pF 25 V	1	
	C5603,04	F1K1E106A136	C 10UF, 25V	2	
	C5606	F1G1A154A053	C 0.15UF, 10V	1	
	C5607	F1J1A475A087	C 4.7UF, 10V	1	
	C5608,09	F1H1C104A143	C 0.1UF, 16V	2	
	C5611	F1J1E105A231	C 1 UF 25V	1	
	C5612	F1H1C105A145	C 1 uF 16 V	1	
	C5617-22	F1K0J226A008	C 22UF, 6.3V	6	
	C5626	F1K1E106A136	C 10UF, 25V	1	
	C5627	F1G1A393A053	C 0.039 uF 10 V	1	
	C5628	F1K1E106A136	C 10UF, 25V	1	
	C5632	F1J1A475A087	C 4.7UF, 10V	1	
	C5634	F1H1C104A143	C 0.1UF, 16V	1	
	C5635	F1H1C105A145	C 1 uF 16 V	1	
	C5641-43	F1K0J226A008	C 22UF, 6.3V	3	
	C5649	ECJ1VB1A105K	C 1UF, 10V	1	
	C5650	F1H1A225A051	C 2.2UF, 10V	1	
	C5651,52	F1J1A475A087	C 4.7UF, 10V	2	
⚠	C7001	F0CAF224A021	C 0.22UF, 250V	1	
⚠	C7003	F0CAF224A021	C 0.22UF, 250V	1	
⚠	C7004,05	F1A2E221A003	E 220UF, 100V	2	PAVCA
⚠	C7010,11	F1A2E221A003	E 220UF, 100V	2	PAVCA
	C7032	F1J1H104A835	C 0.1UF, 50V	1	
	C7201	F1J1H474A757	C 0.47UF, 50V	1	
	C7203	F1J1H104A835	C 0.1UF, 50V	1	
	C7204	F1J1H221A834	C 220UF, 50V	1	PAVCA
	C7206	F1J1C105A197	C 1.0UF, K, 16V	1	
	C7207	F1J1H332A834	C 3300pF, 50V	1	
	C7208	F1J1H102A834	C 1000pF, 50V	1	
	C7211	F1A3A471A060	C 470PF 1KV	1	PAVCA
	C7213	F1A3A222A060	C 2200PF 1KV	1	PAVCA
	C7214	F2A2W1710001	170UF 450V	1	PAVCA
⚠	C7217,18	F0CZZ105A097	P 0.01UF, 200V	2	
	C7221	F1J1H474A757	C 0.47UF, 50V	1	
	C7251,52	F1J1H224A839	C 220UF, 50V	2	PAVCA
	C7301	ECQE6103KFW	P 0.01UF, J, 630V	1	
	C7302	F1A3A101A060	C 100PF 1KV	1	PAVCA
	C7303	F1J1H102A834	C 1000pF, 50V	1	
	C7304	F1J1H223A834	C 22UF, 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C7305	F1J1H471A834	C 470UF, 50V	1	
	C7306	F1J1H221A836	C 0.22UF, 50V	1	
	C7307	F2A1E101A089	E 100UF 25V	1	
△	C7318	F1A2E471A003	E 470PF, 250V	1	
	C7401	F2A2W4700015	47UF 450V	1	PAVCA
	C7402	ECQE2103KF	P 0.01UF, K, 250V	1	
	C7404	F1J1H474A757	C 0.47UF, 50V	1	
	C7405	F1J1H103A834	C 0.01UF, 50V	1	
	C7406	ECA1HM220	E 22UF, 50V	1	
	C7407	F2A1E101A089	E 100UF 25V	1	
	C7409	F1J1H471A834	C 470UF, 50V	1	
△	C7411,12	F1A2E102A004	E 1000UF, 100V	2	PAVCA
	C7505,06	F2A1E681A100	E 680UF 25V	2	
	C7510	F1J1H103A834	C 0.01UF, 50V	1	
	C7514	F2A1E681A100	E 680UF 25V	1	
	C7515	F1A3A471A060	C 470PF 1KV	1	PAVCA
	C7601	F2A1A102A118	E 1000UF 10V	1	
	C7602	F1J1H474A757	C 0.47UF, 50V	1	
	C7604	F1A3A102A060	C 1000PF 1KV	1	PAVCA
	C7701	F1J1E105A231	C 1 UF 25V	1	
	C7703	F1J1E3340003	C 0.33UF, 25V	1	
	C7802-04	F1J1H104A835	C 0.1UF, 50V	3	
	C7805,06	F1J1H474A757	C 0.47UF, 50V	2	
	C7807,08	F1A3A221A060	C 220PF 1KV	2	PAVCA
	C7809,10	F1J1H102A834	C 1000pF, 50V	2	
	C7813,14	F1J1H101A836	C 100UF, 50V	2	
	C7815	F1J1H103A834	C 0.01UF, 50V	1	
	C7816,17	F1J1C105A197	C 1.0UF, K, 16V	2	
	C7821	F1A3A222A060	C 2200PF 1KV	1	PAVCA
	C7822	F1A3A221A060	C 220PF 1KV	1	PAVCA
	C7823	F1A3A222A060	C 2200PF 1KV	1	PAVCA
	C7852	F1J1H104A835	C 0.1UF, 50V	1	
	C7854,55	F1J1H474A757	C 0.47UF, 50V	2	
	C7856	F1J1E224A227	C 0.22UF, 25V	1	
	C7858	F1J1C105A197	C 1.0UF, K, 16V	1	
	C7859	F1J1H471A753	C 470UF, 50V	1	PAVCA
	C7860	F1J1H103A834	C 0.01UF, 50V	1	
	C7861	F1J1H104A835	C 0.1UF, 50V	1	
	C7862	F1J1A2250007	C 2.2UF, 10V	1	
	C7863	F1J1C105A197	C 1.0UF, K, 16V	1	
	C7864	F1J1H103A834	C 0.01UF, 50V	1	
	C7865	F1J1H104A835	C 0.1UF, 50V	1	
	C7866,67	F1J1H103A834	C 0.01UF, 50V	2	
	C7868,69	F1J1H472A834	C 4700pF, 50V	2	
	C7881	F1B3J100A013	C 10PF. 6.3KV	1	
	C7882	F1B3J220A013	C 22PF. 6.3KV	1	
	C7883	F1J1H222A836	C 2.2UF, 50V	1	PAVCA
	C7884	F1J1H102A836	C 1000pF, 50V	1	
	C7885	F1B3J220A013	C 22PF. 6.3KV	1	
	C7886	F1B3J270A013	C 27PF. 6.3KV	1	
	C7887	F1J1H472A729	C 4700pF, 50V	1	
	C7888	F1J1H221A836	C 0.22UF, 50V	1	
△	C7890	F1A2E221A003	E 220UF, 100V	1	PAVCA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C7950-53	F1J1H104A835	C 0.1UF, 50V	4	
	C8000-14	F1G1C104A116	C 0.1UF 16V	15	
	C8015,16	ECJ1VB0J105K	C 1UF, 6.3V	2	
	C8017	F1G1C104A116	C 0.1UF 16V	1	
	C8019-21	F1G1C104A116	C 0.1UF 16V	3	
	C8022-24	F1J1A106A087	C 10UF, 10V	3	
	C8026-33	F1G1C104A116	C 0.1UF 16V	8	
	C8034	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8035,36	F1J1A106A087	C 10UF, 10V	2	
	C8037-41	F1G1C104A116	C 0.1UF 16V	5	
	C8042,43	ECJ1VB0J105K	C 1UF, 6.3V	2	
	C8044	F1J1A106A087	C 10UF, 10V	1	
	C8045-47	F1G1C104A116	C 0.1UF 16V	3	
	C8048	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8049	F1G1C104A116	C 0.1UF 16V	1	
	C8051-56	F1G1C104A116	C 0.1UF 16V	6	
	C8062,63	F1G1C104A116	C 0.1UF 16V	2	
	C8064	F1J0G2260001	C 22 UF 4 V	1	
	C8067-72	F1G1C104A116	C 0.1UF 16V	6	
	C8073-75	ECJ1VB0J105K	C 1UF, 6.3V	3	
	C8076	F1G1C104A116	C 0.1UF 16V	1	
	C8077	F1G1E103A123	C 0.01UF 25V	1	
	C8078	F1G1C104A116	C 0.1UF 16V	1	
	C8079	F1G1H120A731	C 12PF, 50V	1	
	C8080	F1G1H8R0A732	C 8 PF, 50V	1	
	C8081	F1G1H100A731	C 10PF 50V	1	
	C8082	F1G1H8R0A732	C 8 PF, 50V	1	
	C8083	F1G1C104A116	C 0.1UF 16V	1	
	C8084	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8085	F1J1A106A087	C 10UF, 10V	1	
	C8086	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8087-91	F1G1C104A116	C 0.1UF 16V	5	
	C8092-94	ECJ1VB0J105K	C 1UF, 6.3V	3	
	C8095-98	F1G1C104A116	C 0.1UF 16V	4	
	C8099	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8100,01	F1J1A106A087	C 10UF, 10V	2	
	C8102-04	ECJ1VB0J105K	C 1UF, 6.3V	3	
	C8105-17	F1G1C104A116	C 0.1UF 16V	13	
	C8118	F1J1A106A087	C 10UF, 10V	1	
	C8119-23	F1G1C104A116	C 0.1UF 16V	5	
	C8124-26	F1J1A106A087	C 10UF, 10V	3	
	C8127	ECJ1VB0J105K	C 1UF, 6.3V	1	
	C8301	F1G1H102A730	C 1000PF 50V	1	
	C8302-04	F1G1H221A731	C 220PF, 50V	3	
	C8308,09	F1G1H102A730	C 1000PF 50V	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C8310-12	F1G1C104A116	C 0.1UF 16V	3	
	C8313-15	F1J1A106A087	C 10UF, 10V	3	
	C8318,19	F1G1H102A730	C 1000PF 50V	2	
	C8322	EEHBOJ221UF	E 220UF, 6.3V	1	
	C8326	F1G1H121A731	C 120PF, 50V	1	
	C8327,28	F1G1H102A730	C 1000PF 50V	2	
	C8329,30	F1G1C104A116	C 0.1UF 16V	2	
	C8331	F1G1C103A116	C 0.01UF 16V	1	
	C8332,33	F1G1C104A116	C 0.1UF 16V	2	
	C8334,35	F1J1A106A087	C 10UF, 10V	2	
	C8336-40	F1G1C104A116	C 0.1UF 16V	5	
	C8341	F1G1H180A731	C 18PF, 50V	1	
	C8342	F1G1C104A116	C 0.1UF 16V	1	
	C8343	F1G1H150A731	C 15PF, 50V	1	
	C8344-47	F1G1C104A116	C 0.1UF 16V	4	
	C8348	ECJ1VB1A105K	C 1UF, 10V	1	
	C8349,50	F1J1A106A087	C 10UF, 10V	2	
	C8352	F1G1H100A731	C 10PF 50V	1	
	C8353	F1G1H102A730	C 1000PF 50V	1	
	C8354	F1G1C104A116	C 0.1UF 16V	1	
	C8355	F1G1H100A731	C 10PF 50V	1	
	C8356	F1G1C104A116	C 0.1UF 16V	1	
	C8357	ECJ1VB1A105K	C 1UF, 10V	1	
	C8358	F1G1C103A116	C 0.01UF 16V	1	
	C8359-62	F1G1C104A116	C 0.1UF 16V	4	
	C8363	F1J1A106A087	C 10UF, 10V	1	
	C8364,65	F1G1C104A116	C 0.1UF 16V	2	
	C8366	F1J1A106A087	C 10UF, 10V	1	
	C8367,68	F1G1C104A116	C 0.1UF 16V	2	
	C8369,70	ECJ2YB0J475K	C 4.7 UF, 6.3 V	2	
	C8375	ECJ1VB1A105K	C 1UF, 10V	1	
	C8600	F1G1H102A730	C 1000PF 50V	1	
	C8853,54	F1G1C104A116	C 0.1UF 16V	2	
	C8860	F2G1C470A022	E 47UF, 16V	1	
	C8861	F1G1C104A116	C 0.1UF 16V	1	
	C8862	F1G1C103A116	C 0.01UF 16V	1	
	C8863	F1J0G226A001	C 22 UF 4 V	1	
	C8922,23	F1G1C104A116	C 0.1UF 16V	2	
	C8950	F1G1C103A116	C 0.01UF 16V	1	
	C9980	F1G1C104A116	C 0.1UF 16V	1	
△	CF7101	D4CAY8R0A010	THERMISTOR	1	
	CN0100	K1KA08AA0714	8P CONNECTOR	1	
	CN8702	K1KA04AA0104	4P CONNECTOR	1	
	D1100	B0JCCE000008	DIODE	1	
	D2500A	B3AAB0000343	LED	1	
	D2758	EZJZOV120JA	VARISTOR	1	
	D2766	DZ2J140M0L	ZENER DIODE	1	
	D2774,75	EZJZOV120JA	VARISTOR	2	
	D2776-79	DZ2J062M0L	ZENER DIODE	4	
	D2780	EZJZOV120JA	VARISTOR	1	
	D2900	B0JCCE000008	DIODE	1	
	D2901-03	B0ACCCJ000048	DIODE	3	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D3027-32	EZAEG2A50AX	ESD SUPPRESSOR	6	
	D3300	K7AAAY000006	PHOTO LINK	1	
	D3350-53	B0BC01600013	ZENER DIODE	4	
	D4702	B0ACCCJ000048	DIODE	1	
	D4703	DZ2J056M0L	ZENER DIODE	1	
	D4704	B0JCCE000008	DIODE	1	
	D4719	B0ACCCJ000048	DIODE	1	
	D4720	DZ2J056M0L	ZENER DIODE	1	
	D4721	B0JCCE000008	DIODE	1	
	D4735	B0ACCCJ000048	DIODE	1	
	D4736	DZ2J056M0L	ZENER DIODE	1	
	D4737	B0JCCE000008	DIODE	1	
	D4800	B0JCME000076	DIODE	1	
	D4801	B0BC019A0007	ZENER DIODE	1	
	D4802	B0BC03200003	ZENER DIODE	1	
	D4803,04	B0JCPE000004	DIODE	2	
	D4805-14	B0JCME000076	DIODE	10	
	D4815,16	B0ACCCJ000048	DIODE	2	
	D4817	B0BC4R700007	ZENER DIODE	1	
	D4818	B0BC17000001	ZENER DIODE	1	
	D4823	B0BC4R700007	ZENER DIODE	1	
	D4824	B0ACCCJ000048	DIODE	1	
	D4825	B0BC01000035	ZENER DIODE	1	
	D4826,27	B0ACCCJ000048	DIODE	2	
	D4830	B0BC02400011	ZENER DIODE	1	PAVCA
	D4831	B0ACCCJ000048	DIODE	1	
	D4832	DZ2J047M0L	ZENER DIODE	1	
	D4833	B0ACCCJ000048	DIODE	1	
	D5000	B0ACCCJ000048	DIODE	1	
	D5002	DZ2J033M0L	ZENER DIODE	1	
	D5050	B0ACCCJ000048	DIODE	1	
	D5200	B0ACCCJ000048	DIODE	1	
	D5400,01	B0ACCCJ000048	DIODE	2	
	D5420	B0BC01700015	ZENER DIODE	1	PAVCA
	D5421	B0ACCCJ000048	DIODE	1	
	D5422	B0BC010A0007	ZENER DIODE	1	
	D5423	B0ACCCJ000048	DIODE	1	
	D5424	B0BC02400011	ZENER DIODE	1	PAVCA
	D5425	B0ACCCJ000048	DIODE	1	
	D5480	B0JCCE000008	DIODE	1	
	D5605	B0HCMM000014	DIODE	1	
△	D7001,02	D4EAC6210002	VARISTOR	2	
△	D7030	B0FBAT000008	DIODE	1	
	D7040	B0ACCCJ000048	DIODE	1	
	D7201,02	B0JAME000091	DIODE	2	
	D7204	FMX-G26S	DIODE	1	
△	D7207	TVSRM10B	DIODE	1	
	D7251	DZ2J068M0L	ZENER DIODE	1	
	D7252,53	B0ACCCJ000048	DIODE	2	
	D7301,02	B0EAKT000017	DIODE	2	
	D7303,04	B0JAME000091	DIODE	2	
	D7306	B0JAME000091	DIODE	1	
	D7307	B0BC010A0007	ZENER DIODE	1	
	D7312	B0ECKM000048	DIODE	1	
	D7401	B0EAKR000016	DIODE	1	PAVCA
	D7402	B0EAKT000017	DIODE	1	
	D7403,04	B0HAKR000004	DIODE	2	
	D7405	B0JAME000091	DIODE	1	
△	D7407	B0EBKT000007	DIODE	1	
	D7408	B0EAKT000017	DIODE	1	
	D7503	B0HESM000001	DIODE	1	
	D7504	B0BA01400009	ZENER DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D7552	B0JBSL000031	DIODE	1	
	D7601	B0BA01000070	ZENER DIODE	1	
	D7603	B0JAPK000011	DIODE	1	
	D7704	B0ACCJ000048	DIODE	1	
	D7705	B0BC8R100004	ZENER DIODE	1	
	D7753	B0BC01400017	ZENER DIODE	1	
	D7801-04	B0JCKG000002	DIODE	4	
	D7805	B0ACCJ000048	DIODE	1	
	D7806,07	B0HAMR000048	DIODE	2	PAVCA
	D7808,09	B0BC01400017	ZENER DIODE	2	
	D7820	B0BC01400017	ZENER DIODE	1	
	D7821	DZ2J150M0L	ZENER DIODE	1	
	D7822	B0BC01400017	ZENER DIODE	1	
	D7823	DZ2J150M0L	ZENER DIODE	1	
	D7824,25	DZ2J047M0L	ZENER DIODE	2	
	D7826	DZ2J150M0L	ZENER DIODE	1	
	D7827	DZ2J120M0L	ZENER DIODE	1	
	D7828	B0BC01400017	ZENER DIODE	1	
	D7830,31	B0ACDJ000014	DIODE	2	PAVCA
	D7832	B0ACCJ000048	DIODE	1	
	D7833	DZ2J047M0L	ZENER DIODE	1	
	D7851	B0ACCJ000048	DIODE	1	
	D7852,53	B0ACK000004	DIODE	2	
	D7854	B0ACCJ000048	DIODE	1	
	D7855,56	B0ACDJ000014	DIODE	2	PAVCA
	D7857,58	B0ACCJ000048	DIODE	2	
	D7860,61	B0ADCJ0000100	DIODE	2	
	D7862	B0ACDJ000014	DIODE	1	PAVCA
	D7863,64	B0ADCJ0000100	DIODE	2	
	D7865	B0ACDJ000014	DIODE	1	PAVCA
	D7880,81	DZ2J150M0L	ZENER DIODE	2	
	D7888	DZ2J068M0L	ZENER DIODE	1	
	D8729	B0BC01400017	ZENER DIODE	1	
	D9970	B3AEB0000131	DIODE	1	
	F7001-1	K3GE1ZA00010	FUSE HOLDER	1	
	F7001-2	K3GE1ZA00010	FUSE HOLDER	1	
	F7801-1	K3GE1ZA00010	FUSE HOLDER	1	
	F7801-2	K3GE1ZA00010	FUSE HOLDER	1	
	FL4804-07	EXC28CE201U	FILTER	4	
	IC1101	TVRR717S	IC	1	PAVCA
	IC2301	C1AB00003230	IC	1	
	IC2900	C0EBF0000354	IC	1	
	IC3000	C1AB00003218	IC	1	
	IC3350	C0ZBZ0001361	IC	1	
	IC4800	C0DBZYY00343	IC	1	
	IC4802	C0FBFF000074	IC	1	
	IC4803	C0JBAU000097	IC	1	PAVCA
	IC5000	AN34042A-VF	IC	1	
	IC5200	C0DBEYY00123	IC	1	
	IC5220	C0DBGYY00895	IC	1	
	IC5416	C0DBGYY00281	IC	1	
	IC5600,01	C0DBAYY00715	IC	2	
	IC5603	C0DBFYY00049	IC	1	
	IC5604	C0DBGYY00578	IC	1	
	IC7201	C0DBBZG00004	IC	1	
	IC7301	C0DABYY00020	IC	1	
	IC7401	C0DABYY00027	IC	1	PAVCA
	IC7501	C0DBZMC00006	IC	1	
	IC7601	C0DBZMC00006	IC	1	
	IC7801	C0DBZYY00321	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	IC7851	C0ZBZ0001729	IC	1	PAVCA
	IC8001	MN2WS0125ES	IC	1	PAVCA
	IC8300	MN88436	IC	1	
	IC8301,02	C0JBAB0000722	IC	2	
	IC8303	C0CBCAG00031	IC	1	
	IC8304	C0DBGYY00281	IC	1	
	IC8305	C1AB00003336	IC	1	PAVCA
	IC8921	TVRR713ABS	IC	1	PAVCA
	IC8950	TVRR715S	IC	1	PAVCA
	IC9980	C1ZBZ0004127	IC	1	
	JK3300	K4AK06B00001	TERMINAL BOARD	1	PAVCA
	JK3301D	K1U812A00001	JACK	1	PAVCA
	JK3304A	K1FY315A0006	CONNECTOR	1	PAVCA
	JK3350,51	K2HC1YYA0024	JACK	2	
	JK4700,01	K1FY119D0011	CONNECTOR	2	
	JK4702	K1FY119E0015	CONNECTOR	1	
	JK8850	K1NA12E00017	SD CARD CONNECTOR	1	
	JS1010	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	L2303-06	G1C220MA0416	INDUCTION COIL	4	
	L2750,51	J0JYC0000065	CHIP INDUCTOR	2	
	L2753-55	J0JYC0000065	CHIP INDUCTOR	3	
	L2904	J0JCC0000278	CHIP INDUCTOR	1	
	L3100,01	J0JCC0000287	CHIP INDUCTOR	2	
	L3104	J0JCC0000287	CHIP INDUCTOR	1	
	L3107	J0JCC0000287	CHIP INDUCTOR	1	
	L3114,15	J0JCC0000287	CHIP INDUCTOR	2	
	L3117-20	J0JCC0000287	CHIP INDUCTOR	4	
	L4700,01	J0JYC0000068	CHIP INDUCTOR	2	
	L4703,04	J0JYC0000068	CHIP INDUCTOR	2	
	L4706,07	J0JYC0000068	CHIP INDUCTOR	2	
	L4800	J0JHC0000046	CHIP INDUCTOR	1	
	L4801	J0JHC0000077	CHIP INDUCTOR	1	
	L4802	G1C220MA0234	INDUCTION COIL	1	
	L4803	G1C100MA0291	INDUCTION COIL	1	
	L4805	J0JHC0000046	CHIP INDUCTOR	1	
	L5000-02	J0JYC0000068	CHIP INDUCTOR	3	
	L5600	G1C2R2Z00006	INDUCTION COIL	1	
	L5601	G1C3R3Z00004	INDUCTION COIL	1	
	L5602	G1C100MA0077	INDUCTION COIL	1	
	L5603	J0JHC0000075	CHIP INDUCTOR	1	
	L5604	G1C3R3Z00005	INDUCTION COIL	1	
	L5606	G1C100MA0077	INDUCTION COIL	1	
	L5608	J0JHC0000045	CHIP INDUCTOR	1	
	L7202	EXCELDR35V	BEAD CHOKE	1	
	L7204-06	EXCELDR35V	BEAD CHOKE	3	
	L7301	EXCELSA35T	BEAD CHOKE	1	
	L7401,02	EXCELDR35V	BEAD CHOKE	2	
	L7601	EXCELSA35T	BEAD CHOKE	1	
	L7801,02	EXCELDR35V	BEAD CHOKE	2	
	L7803	EXCELSA39	BEAD CHOKE	1	
	L7804-06	EXCELDR35V	BEAD CHOKE	3	
	L8000	J0JHC0000045	CHIP INDUCTOR	1	
	L8001	J0JHC0000116	CHIP INDUCTOR	1	
	L8002,03	J0JKC0000021	CHIP INDUCTOR	2	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	L8004	J0JHC0000045	CHIP INDUCTOR	1	
	L8005	J0JKC0000021	CHIP INDUCTOR	1	
	L8007-16	J0JHC0000045	CHIP INDUCTOR	10	
	L8017-19	D0GBR0020002	M 0 OHM J 1/10W	3	
	L8020-25	J0JHC0000045	CHIP INDUCTOR	6	
	L8300,01	G1CR39JA0020	INDUCTION COIL	2	
	L8303	G1CR10JA0020	INDUCTION COIL	1	
	L8304-09	J0JHC0000045	CHIP INDUCTOR	6	
	L8850	J0JHC0000045	CHIP INDUCTOR	1	
	L8860	J0JHC0000045	CHIP INDUCTOR	1	
	L8920	J0JHC0000075	CHIP INDUCTOR	1	
⚠	LF7001-03	G0B103H00009	CHOKE COIL	3	
	P1	K1KY02A00001	2P CONNECTOR	1	PAVCA
	P2	K1KA16AA0658	16P CONNECTOR	1	PAVCA
	P5,P6	K1KY02B00011	2P CONNECTOR	2	
⚠	PC7301	B3PAA0000363	IC	1	
⚠	PC7401	B3PAA0000363	IC	1	
⚠	PC7701	B3PAA0000363	IC	1	
	Q2101	DSA200100L	TRANSISTOR	1	
	Q2301	DSC2001S0L	TRANSISTOR	1	
	Q2500	DSC200100L	TRANSISTOR	1	
	Q2504	DSC200100L	TRANSISTOR	1	
	Q2750,51	DSC200100L	TRANSISTOR	2	
	Q2900	DSA200100L	TRANSISTOR	1	
	Q3104,05	B1ABCF000231	TRANSISTOR	2	
	Q4700	B1ABCF000231	TRANSISTOR	1	
	Q4702	B1ABCF000231	TRANSISTOR	1	
	Q4704	B1ABCF000231	TRANSISTOR	1	
	Q4802	B1CFQD000001	FET	1	
	Q4803	B1ABCF000231	TRANSISTOR	1	
	Q4804,05	B1ADCE000022	TRANSISTOR	2	
	Q4813	B1ABCF000231	TRANSISTOR	1	
	Q5000	B1ADCE000022	TRANSISTOR	1	
	Q5053	DSC2001S0L	TRANSISTOR	1	
	Q5054,55	B1ADCE000022	TRANSISTOR	2	
	Q5600	B1MBDA00003	FET	1	
	Q5601	B1MBEDA00015	FET	1	
	Q5605	B1MBEDA00015	FET	1	
	Q7032	B1ABGF000019	TRANSISTOR	1	PAVCA
	Q7201	B1CERR000043	FET	1	PAVCA
	Q7251	DSA200100L	TRANSISTOR	1	
	Q7252	DSC200100L	TRANSISTOR	1	
	Q7301	B1CEPU000005	FET	1	PAVCA
	Q7701	B1DHDC000028	TRANSISTOR	1	
	Q7702	DSC200100L	TRANSISTOR	1	
	Q7704	DSC200100L	TRANSISTOR	1	
	Q7754	DSA2001S0L	TRANSISTOR	1	
	Q7801-04	B1CERQ000056	FET	4	PAVCA
	Q7805	DSC2001S0L	TRANSISTOR	1	
	Q7808	DSC200100L	TRANSISTOR	1	
	Q9970	DSC200100L	TRANSISTOR	1	
	R388	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0900	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0901	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0902	EXB28V680JX	M 68 OHM 1/32 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R0903	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0905	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R0910	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R0911	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R0912	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R0913	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R0940	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0941	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0942	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0943	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0944	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0945	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R0946	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0947	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0948	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0949	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0950	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0951	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0957	ERJ2GEJ102X	M 1KOHM, J,1/16 W	1	
	R0958	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0959	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0966	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0967	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0968	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0969	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0970	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0971	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0972	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0973	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0976	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0977	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0978	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0979	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0980	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0981	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0982	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0983	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R0984	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0985	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R0986	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R0987	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R1103	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R1178	D0GA331JA015	M 330 OHM, J,1/16W	1	
	R1179	D1BB7151A055	M7.15KOHM,J.1/10W	1	
	R1180	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R1181	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R1183	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R1185	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R1186	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R1201	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R1203-06	D0GAR00Z0001	M 0 OHM, 1/16W	4	
	R1500	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R1501	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R1504	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R1505	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R1520	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R1521	ERJ2GEJ104	M100KOHM, J,1/16 W	1	
	R1567	D0GA182JA015	M 1.8KOHM, J,1/16W	1	
	R1568	D0GA683JA015	M 68KOHM, J,1/16W	1	
	R1569	D0GA223JA015	M 22K OHM J 1/16W	1	
	R2053	D1BB1403A055	M 140KOHM,J.1/10W	1	
	R2055	D1BB1403A055	M 140KOHM,J.1/10W	1	
	R2101	D0GA332JA015	M 3.3KOHM, J,1/16W	1	
	R2102	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R2107	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R2135	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R2139,40	ERJ2GEJ221	M 220 OHM, J,1/16 W	2	
	R2301	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2302	EXB28V220J	M 22 OHM 1/32 W	1	
	R2303,04	D0GA100JA015	M 10 OHM, J,1/16W	2	
	R2310	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2318-21	ERJ8GEYJ3R3V	M 3.3 OHM, J,1/4W	4	
	R2322,23	ERJ6GEY0R00V	M 0 OHM 1/8W	2	
	R2331	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2340,41	D0GA473JA015	M 47KOHM, J,1/16W	2	
	R2342	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2502	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R2504	D0GA223JA015	M 22K OHM J 1/16W	1	
	R2509	D1BA6040A014	M 604 OHM,J.1/16 W	1	PAVCA
	R2512	D0GA470JA015	M 47 OHM, J,1/16W	1	
	R2514	D0GA562JA015	M 5.2KOHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2515	D0GA124JA015	M 120KOHM J 1/16W	1	PAVCA
	R2516	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2517	ERJ2GEJ104	M100KOHM, J,1/16 W	1	
	R2518	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2529,30	D0GA332JA015	M 3.3KOHM, J,1/16W	2	
	R2532	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R2542	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R2752,53	ERJ6GEY0R00V	M 0 OHM 1/8W	2	
	R2760,61	D0GA101JA015	M 100 OHM, J,1/16W	2	
	R2762	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R2763,64	D0GA473JA015	M 47KOHM, J,1/16W	2	
	R2766	ERJ6GEY0R00V	M 0 OHM 1/8W	1	
	R2771	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2786	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R2788	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R2789	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2791,92	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R2795	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R2818	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R2821	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R2900	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R2901	ERJ2GEJ104	M100KOHM, J,1/16 W	1	
	R2902	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2903	D0GA563JA015	M 56KOHM, J,1/16W	1	
	R2905	D0GA563JA015	M 56KOHM, J,1/16W	1	
	R2907	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R2908	D0GA561JA015	M 560OHM, J,1/16W	1	
	R2909	D0GA275JA014	M 2.7M OHM J ,1/16W	1	PAVCA
	R2910	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R2911	D0GA275JA014	M 2.7M OHM J ,1/16W	1	PAVCA
	R2912	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R3006,07	D0GA680JA015	M 68 OHM, J,1/16W	2	
	R3010,11	D0GAR00Z0001	M 0 OHM, 1/16W	2	
	R3012,13	ERJ2GEJ221	M 220 OHM, J,1/16 W	2	
	R3015-18	D0GA680JA015	M 68 OHM, J,1/16W	4	
	R3019	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R3020	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R3021	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R3101,02	D0GA472JA015	M 4.7KOHM, J,1/16W	2	
	R3103-05	ERJ6RED750	M 75 OHM, .D1/10W	3	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3106,07	D0GA333JA015	M 33KOHM,J,1/16W	2	
	R3108	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R3109	ERJ6RED750	M 75 OHM, .D1/10W	1	
	R3117	ERJ2GEJ221	M 220 OHM, J,1/16 W	1	
	R3120,21	ERJ2GEJ221	M 220 OHM, J,1/16 W	2	
	R3123-27	D0GA680JA015	M 68 OHM, J,1/16W	5	
	R3145	ERJ6RED750	M 75 OHM, .D1/10W	1	
	R3148,49	D0GAR00Z0001	M 0 OHM, 1/16W	2	
	R3152	ERJ2GEJ221	M 220 OHM, J,1/16 W	1	
	R3165,66	D0GA333JA015	M 33KOHM,J,1/16W	2	
	R3173,74	ERJ2GEJ221	M 220 OHM, J,1/16 W	2	
	R3181-83	ERJ6RED750	M 75 OHM, .D1/10W	3	
	R3184,85	ERJ2GEJ104	M100KOHM, J,1/16W	2	
	R3186,87	D0GA333JA015	M 33KOHM,J,1/16W	2	
	R3188,89	ERJ2GEJ221	M 220 OHM, J,1/16 W	2	
	R3190,91	D0GA101JA015	M 100 OHM, J,1/16W	2	
	R3192,93	D0GA820JA015	M 82 OHM, J,1/16W	2	
	R3194,95	D0GA331JA015	M 330 OHM, J,1/16W	2	
	R3196	D0GA820JA015	M 82 OHM, J,1/16W	1	
	R3243	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R3350-54	D0GA101JA015	M 100 OHM, J,1/16W	5	
	R3356,57	D0GA101JA015	M 100 OHM, J,1/16W	2	
	R3358,59	D0GAR00Z0001	M 0 OHM, 1/16W	2	
	R3990,91	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4208	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4209	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4240	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4556	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4651	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R4655	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R4659	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R4663	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R4666	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4668	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4670	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4672	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4676	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4677	D0GA122JA015	M 1.2KOHM, J,1/16W	1	
	R4702	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4703	D0GA330JA015	M 33 OHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4704	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4708,09	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4711	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4712	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4715	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4716	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4717	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4721,22	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4724	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4725	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4728	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4729	D0GA330JA015	M 33 OHM, J,1/16W	1	
	R4730	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4734,35	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4737	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4738	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4740-51	D0GA680JA015	M 68 OHM, J,1/16W	12	
	R4763-65	ERJ2GEJ104	M100KOHM, J,1/16W	3	
	R4801	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4803	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4806	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4808	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4812-14	EXB28VR000X	M 0 OHM 1/32 W	3	
	R4818,19	D0GAR00Z0001	M 0 OHM, 1/16W	2	
	R4841	D0GA223JA015	M 22K OHM J 1/16W	1	
	R4842	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4843,44	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4847	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4855	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R4859	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R4873,74	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R4882	D1BA2202A014	M 22KOHM,J.1/16 W	1	
	R4884	ERJ6GEYG391	M 390 OHM,G,1/8W	1	
	R4885	D1BA1001A014	M 1KOHM,J. 1/16 W	1	
	R4886	D1BA2201A014	M 2.2 KOHM,J.1/16 W	1	
	R4887	ERJ6GEYJ271V	M 270 OHMJ. 1/8W	1	
	R4888	D1BA2202A014	M 22KOHM,J.1/16 W	1	
	R4889	D1BA3301A014	M3.3 KOHM,J.1/16 W	1	
	R4890	D1BA1001A014	M 1KOHM,J. 1/16 W	1	
	R4891	D1BA3001A014	M 3KOHM,J.1/16 W	1	
	R4892	D1BA3301A014	M3.3 KOHM,J.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4893	D1BA3002A014	M 30KOHM, J.1/16 W	1	
	R4894	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4895	D1BA2201A014	M 2.2 KOHM, J.1/16 W	1	
	R4896, 97	D1BA1002A014	M 10KOHM, J. 1/16 W	2	
	R4900	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R4901	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4911	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4914	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4919	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4925-35	D0GA100JA015	M 10 OHM, J,1/16W	11	
	R4937	D0GA820JA015	M 82 OHM, J,1/16W	1	
	R4938	D0GA100JA015	M 10 OHM, J,1/16W	1	
	R4942	D0GA223JA015	M 22K OHM J 1/16W	1	
	R4943	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R4944	EXB28V151J	M 150 OHM 1/32 W	1	
	R4946	EXB28V471J	M 470 OHM 1/32 W	1	
	R4947	D0GA471JA015	M 470OHM, J,1/16W	1	
	R4955	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R4958	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R4963	D0GA471JA015	M 470OHM, J,1/16W	1	
	R4964, 65	D0GA151JA015	M 150 OHM, J,1/16W	2	
	R4969	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R4990	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5000, 01	D0GAR00Z0001	M 0 OHM, 1/16W	2	
	R5002	D0GA683JA015	M 68KOHM, J,1/16W	1	
	R5003	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5004	D0GA563JA015	M 56KOHM, J,1/16W	1	
	R5005	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R5006, 07	D0GA223JA015	M 22K OHM J 1/16W	2	
	R5008	D0GA203JA015	M 20K OHM J 1/16W	1	
	R5009	D1BA5602A014	M 56KOHM, J.1/16 W	1	
	R5010	D0GA223JA015	M 22K OHM J 1/16W	1	
	R5011	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R5012	D1BA2202A014	M 22KOHM, J.1/16 W	1	
	R5013	D0GA333JA015	M 33KOHM, J,1/16W	1	
	R5015	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5018	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5022	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R5023-25	D0GAR00Z0001	M 0 OHM, 1/16W	3	
	R5029	D0GA101JA015	M 100 OHM, J,1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5030	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5050	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R5051	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5052	D0GA105JA015	M 1M OHM, J,1/16W	1	
	R5053	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R5054	D0GA563JA015	M 56KOHM, J,1/16W	1	
	R5055	D0GA203JA015	M 20K OHM J 1/16W	1	
	R5056	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5060, 61	ERJ2GEJ102X	M 1KOHM, J.1/16 W	2	
	R5069	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R5070	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R5100	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R5104	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5151	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R5152	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R5153	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R5154	D0GA470JA015	M 47 OHM, J,1/16W	1	
	R5155	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R5204	D1BA4302A014	M 43KOHM, J.1/16 W	1	PAVCA
	R5205	D1BA8201A014	M 8.2 KOHM, J.1/16 W	1	PAVCA
	R5206	ERJ6GEY0R00V	M 0 OHM 1/8W	1	
	R5244	ERJ6GEY0R00V	M 0 OHM 1/8W	1	
	R5246	ERJ6GEY0R00V	M 0 OHM 1/8W	1	
	R5247	ERJ12YJ471	M 470OHM, J, 1/2W	1	
	R5260	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5265	ERJ6GEY0R00V	M 0 OHM 1/8W	1	
	R5301	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5305	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R5306	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5308	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R5400	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5401	D0GA153JA015	M 15K OHM J 1/16W	1	
	R5402	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R5500	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R5601	D1BB8200A087	M 820 OHM, J.1/10W	1	
	R5602	D1BB2701A087	M 2.7KOHM, J.1/10W	1	
	R5603	D1BB1241A087	M1.24KOHM, J.1/10W	1	
	R5604	D1BB2001A087	M 2KOHM, J.1/10W	1	
	R5605	D1BB2002A055	M 20KOHM, J.1/10W	1	
	R5606	D1BB2402A055	M 24KOHM, J.1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5616,17	D0GB100JA041	M 10 OHM J 1/10W	2	
	R5618	D1BB3301A055	M 3.3KOHM, J, 1/10W	1	
	R5620	D1BB1001A055	M 1KOHM, J, 1/10W	1	
	R5622	D1BB2402A055	M 24KOHM, J, 1/10W	1	
	R5627	D0GB100JA041	M 10 OHM J 1/10W	1	
	R5628	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5631	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5635	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R5638	D0GBR00Z0002	M 0 OHM J 1/10W	1	
	R5640,41	ERJ2GEJ103	M 10KOHM, J, 1/16 W	2	
	R5642	ERJ2GEJ104	M100KOHM, J, 1/16 W	1	
	R5643	ERJ2GEJ103	M 10KOHM, J, 1/16 W	1	
	R5644	D0GA752JA015	M7.5KOHM, J, 1/16W	1	
	R5647	D0GAR00Z0001	M 0 OHM, 1/16W	1	
△	R7001	ERC12ZGK105	S 1MOHM, K, 1/2W	1	
	R7030	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7031	D0GD821JA036	M 820 OHM, J, 1/4W	1	PAVCA
	R7201-04	ERJ6ENF3903	M 390KOHM, F. 1/8W	4	
	R7205	ERJ6ENF2202	M 2.2KOHM, F, 1/8W	1	
	R7206	D0GD223JA036	M 22KOHM, J, 1/4W	1	
	R7209	D0GD104JA036	M 100KOHM, J, 1/4W	1	
	R7210	D0GD562JA036	M 5.6KOHM, J, 1/4W	1	PAVCA
	R7211	ERDS1FJ471	C 470 OHM, J, 1/2W	1	
	R7212	D0GD681JA036	M 680 OHM, J, 1/4W	1	PAVCA
	R7213	D0GF101JA026	M 100 OHM, J, 1/3W	1	PAVCA
	R7214	ERDS1TJ220	C 22 OHM, J, 1/2W	1	
	R7215	D0GD104JA036	M 100KOHM, J, 1/4W	1	
	R7216	ERX2SJR33P	M0.33 OHM, J, 2W	1	
	R7217	ERX2SJR22P	M0.22 OHM, J, 2W	1	
	R7220-23	ERJ6ENF3903	M 390KOHM, F. 1/8W	4	
	R7224	ERJ6ENF1802	M 18KOHM, F, 1/8W	1	
	R7225	ERJ6ENF2701	M 2.7KOHM, F, 1/8W	1	
	R7226-33	ERJ6ENF3903	M 390KOHM, F. 1/8W	8	
	R7235	D0GDR00Z0002	M 0 OHM, 1/4W	1	
	R7236	D0GD103JA036	M 10KOHM, J, 1/4W	1	
	R7251	ERJ6ENF3903	M 390KOHM, F. 1/8W	1	
	R7252	ERJ6ENF6042	M60.4KOHM, F, 1/8W	1	
	R7253-59	ERJ6ENF3903	M 390KOHM, F. 1/8W	7	
	R7260	D0GD223JA036	M 22KOHM, J, 1/4W	1	
	R7261	D0GD472JA036	M 4.7KOHM, J, 1/4W	1	
	R7262,63	D0GD103JA036	M 10KOHM, J, 1/4W	2	
	R7302	ERJ12YJ474	M 470KOHM, 1/2W	1	
	R7303	ERG3SJ470P	M 47 OHM, J, 3W	1	
	R7304	ERX1SJR68P	M0.68 OHM, 1W	1	
	R7306	D0GD102JA036	M 1.0KOHM, J, 1/4W	1	
	R7308	D0GD102JA036	M 1.0KOHM, J, 1/4W	1	
	R7309	ERDS1FJ330	C 33 OHM, J, 1/2W	1	
	R7310	ERDS1TJ100	C 10 OHM, J, 1/2W	1	
	R7312	D0GD101JA036	M 100 OHM, J, 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R7313	ERDS1FJ151	C 150 OHM, J, 1/2W	1	
△	R7317	D0XB106J0003	M 10MOHM, J, 1W	1	
	R7318	D0GD683JA036	M 68KOHM, J, 1/4W	1	
	R7401	ERF2AJ100P	W 10 OHM, J, 2W	1	
	R7402	ERJ12YJ474	M 470KOHM, 1/2W	1	
	R7403,04	ERDS1FJ3R3	C 3.3 OHM, J, 1/2W	2	
	R7405	ERDS1TJ220	C 22 OHM, J, 1/2W	1	
	R7406	D0GD222JA036	M 2.2KOHM, J, 1/4W	1	PAVCA
	R7407	D0GD101JA036	M 100 OHM, J, 1/4W	1	
	R7408,09	ERJ12YJ474	M 470KOHM, 1/2W	2	
	R7410	D0GD474JA036	M 470KOHM, J, 1/4W	1	PAVCA
	R7411	D0GD393JA036	M 39KOHM, J, 1/4W	1	PAVCA
	R7413	ERG2SJ330	M 33 OHM, J, 2W	1	
	R7506	D0GD102JA036	M 1.0KOHM, J, 1/4W	1	
	R7509,10	ERJ6ENF4701	M 4.7KOHM, F, 1/8W	2	
	R7511	ERJ6ENF2401	M 2.4KOHM, F, 1/8W	1	
	R7512	D0GD103JA036	M 10KOHM, J, 1/4W	1	
	R7513	D0GD471JA036	M 470 OHM, J, 1/4W	1	
	R7601	D0GD102JA036	M 1.0KOHM, J, 1/4W	1	
	R7602	D0GD151JA036	M 150 OHM, J, 1/4W	1	
	R7603	D0GDR00Z0002	M 0 OHM, 1/4W	1	
	R7604	ERJ6ENF6801	M 6.8KOHM, F, 1/8W	1	
	R7605	ERJ6ENF4701	M 4.7KOHM, F, 1/8W	1	
	R7606	D0GD472JA036	M 4.7KOHM, J, 1/4W	1	
	R7701	D0GD223JA036	M 22KOHM, J, 1/4W	1	
	R7702	D0GD103JA036	M 10KOHM, J, 1/4W	1	
	R7703	D0GD102JA036	M 1.0KOHM, J, 1/4W	1	
	R7704	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7705	D0GD103JA036	M 10KOHM, J, 1/4W	1	
	R7708	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7710	D0GD124JA036	M 120KOHM, J, 1/4W	1	PAVCA
	R7711	D0GD101JA036	M 100 OHM, J, 1/4W	1	
	R7759,60	D0GD472JA036	M 4.7KOHM, J, 1/4W	2	
	R7763	D0GD101JA036	M 100 OHM, J, 1/4W	1	
	R7801	D0GD220JA036	M 22 OHM, J, 1/4W	1	PAVCA
	R7802	D0GD471JA036	M 470 OHM, J, 1/4W	1	
	R7803	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7804	D0GD220JA036	M 22 OHM, J, 1/4W	1	PAVCA
	R7805	D0GD821JA036	M 820 OHM, J, 1/4W	1	PAVCA
	R7806	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7807	D0GD220JA036	M 22 OHM, J, 1/4W	1	PAVCA
	R7808	D0GD471JA036	M 470 OHM, J, 1/4W	1	
	R7809	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7810	D0GD220JA036	M 22 OHM, J, 1/4W	1	PAVCA
	R7811	D0GD821JA036	M 820 OHM, J, 1/4W	1	PAVCA
	R7812	D0GD473JA036	M 47KOHM, J, 1/4W	1	
	R7813	D0GD472JA036	M 4.7KOHM, J, 1/4W	1	
	R7814	D0GD1R0JA035	M 1.0 OHM, J, 1/4W	1	PAVCA
	R7815	D0GD273JA036	M 27KOHM, J, 1/4W	1	
	R7816,17	D0GD222JA036	M 2.2KOHM, J, 1/4W	2	PAVCA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R7818,19	D0GD103JA036	M 10KOHM,J,1/4W	2	
	R7820,21	D0GDR00Z0002	M 0 OHM, 1/4W	2	
	R7830,31	D0GD103JA036	M 10KOHM,J,1/4W	2	
	R7832	D0GD472JA036	M 4.7KOHM,J,1/4W	1	
	R7834	D0GD334JA036	M 330KOHM,J,1/4W	1	PAVCA
	R7835	D0GD224JA036	M 220KOHM,J. 1/4W	1	PAVCA
	R7836	D0GD473JA036	M 47KOHM,J,1/4W	1	
	R7851,52	D0GD101JA036	M 100 OHM,J,1/4W	2	
	R7853	D0GD102JA036	M 1.0KOHM,J,1/4W	1	
	R7860,61	D0GD473JA036	M 47KOHM,J,1/4W	2	
	R7862,63	ERJ6ENF2203	M220KOHM,F.1/8W	2	
	R7864	ERJ6ENF4702	M 47KOHM,F.1/8W	1	
	R7867	D0GD473JA036	M 47KOHM,J,1/4W	1	
	R7868	D0GD471JA036	M 470 OHM,J 1/4W	1	
	R7869	ERJ6ENF4701	M 4.7KOHM,F.1/8W	1	
	R7870	ERJ6ENF2202	M 2.2KOHM,F.1/8W	1	
	R7871	ERJ6ENF3302	M 33KOHM,F.1/8W	1	
	R7873	ERJ6ENF4702	M 47KOHM,F.1/8W	1	
	R7874	D0GD473JA036	M 47KOHM,J,1/4W	1	
	R7875	D0GD223JA036	M 22KOHM,J,1/4W	1	
	R7876	ERJ6ENF5602	M 56KOHM,F.1/8W	1	
	R7877	ERJ6ENF1002	M 10KOHM,F. 1/8W	1	
	R7878,79	D0GD682JA036	M 6.8KOHM,J,1/4W	2	PAVCA
	R7881,82	ERJ6ENF2202	M 2.2KOHM,F.1/8W	2	
	R7883A	ERG2SJ330	M 33 OHM, J, 2W	1	
	R7884A	ERG2SJ330	M 33 OHM, J, 2W	1	
	R7902	D0GDR00Z0002	M 0 OHM, 1/4W	1	
	R8002	D1BB2402A055	M 24KOHM,J.1/10W	1	
	R8003	D1BB1002A055	M 10KOHM,J.1/10W	1	
	R8004	D1BB2402A055	M 24KOHM,J.1/10W	1	
	R8005,06	D1BA1001A014	M 1KOHM,J. 1/16W	2	
	R8007	D0GA111JA015	M 110 OHM, J.1/16W	1	
	R8008	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8009	D1BA56R0A014	M 56 OHM,J.1/16W	1	
	R8010	D1BA3000A014	M 300 OHM.J.1/16W	1	
	R8011	D0GB331JA041	M330 OHM J 1/10W	1	
	R8014	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8015	D0GA681JA015	M680 OHM, J,1/16W	1	
	R8017	D0GA471JA015	M 470OHM, J,1/16W	1	
	R8031	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R8211,12	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R8300,01	D0GBR00Z0002	M 0 OHM J 1/10W	2	
	R8302,03	D0GA470JA015	M 47 OHM, J,1/16W	2	
	R8304	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R8306-10	D0GBR00Z0002	M 0 OHM J 1/10W	5	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8311-14	D0GAR00Z0001	M 0 OHM, 1/16W	4	
	R8315	D0GA471JA015	M 470OHM, J,1/16W	1	
	R8316	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R8317	D1BB1002A055	M 10KOHM,J.1/10W	1	
	R8319	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R8320	ERJ2GEJ221	M 220 OHM, J,1/16 W	1	
	R8321	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R8322	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8323	D0GA101JA015	M 100 OHM, J,1/16W	1	
	R8324-28	D0GA470JA015	M 47 OHM, J,1/16W	5	
	R8329	D0GAR00Z0001	M 0 OHM, 1/16W	1	
	R8330,31	D0GA470JA015	M 47 OHM, J,1/16W	2	
	R8332	ERJ2GEJ220	M 22 OHM, J,1/16 W	1	
	R8333	EXB28V470JX	M 47 OHM 1/32W	1	
	R8334	D0GA473JA015	M 47KOHM, J,1/16W	1	
	R8335	D0GA105JA015	M 1M OHM, J,1/16W	1	
	R8336	D0GA681JA015	M680 OHM, J,1/16W	1	
	R8337-39	EXB28V470JX	M 47 OHM 1/32W	3	
	R8340	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R8341	ERJ2GEJ221	M 220 OHM, J,1/16 W	1	
	R8344	ERJ2GEJ221	M 220 OHM, J,1/16 W	1	
	R8345	D0GA470JA015	M 47 OHM, J,1/16W	1	
	R8350	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8351-53	EXB28V470JX	M 47 OHM 1/32W	3	
	R8357-59	ERJ2GEJ102X	M 1KOHM, J.1/16 W	3	
	R8361	ERJ2GEJ102X	M 1KOHM, J.1/16 W	1	
	R8362-64	D0GBR00Z0002	M 0 OHM J 1/10W	3	
	R8470	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8488-99	D0GA680JA015	M 68 OHM, J,1/16W	12	
	R8500	EXB2HV103JV	M 10 kOHM 1/16 W	1	
	R8511-13	ERJ2GEJ103	M 10KOHM, J,1/16 W	3	
	R8514	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R8516,17	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	
	R8600	D0GA472JA015	M 4.7KOHM, J,1/16W	1	
	R8606	D0GA222JA015	M 2.2KOHM, J,1/16W	1	
	R8607	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R8610	D0GA680JA015	M 68 OHM, J,1/16W	1	
	R8616,17	D0GA222JA015	M 2.2KOHM, J,1/16W	2	
	R8618	ERJ2GEJ103	M 10KOHM, J,1/16 W	1	
	R8621,22	D0GA680JA015	M 68 OHM, J,1/16W	2	
	R8627,28	ERJ2GEJ103	M 10KOHM, J,1/16 W	2	

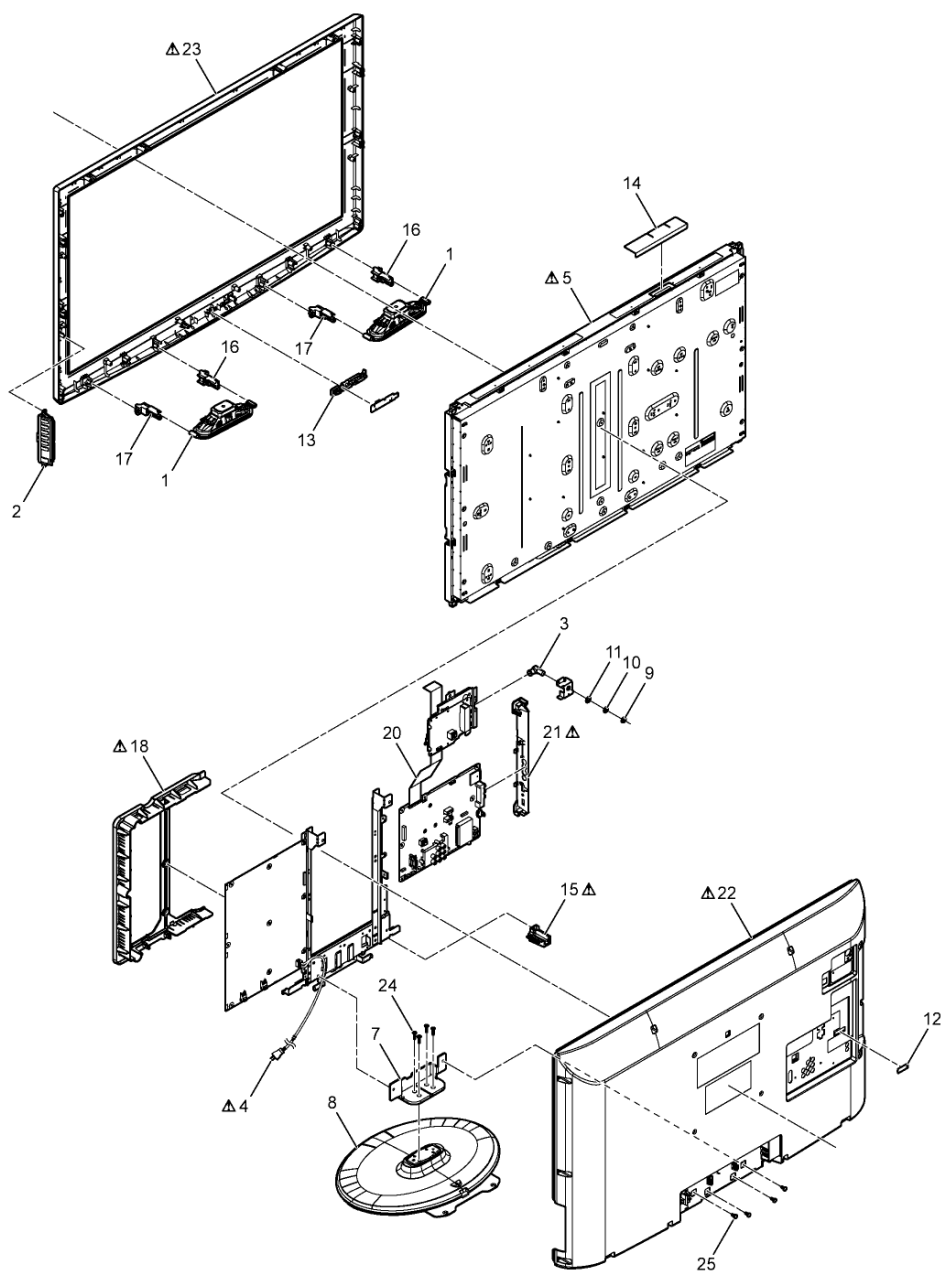
Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R8631,3 2	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	2	
	R8633	D0GA222JA015	M 2.2KOHM, J,1/ 16W	1	
	R8635,3 6	D0GA680JA015	M 68 OHM, J,1/ 16W	2	
	R8638,3 9	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	2	
	R8641,4 2	D0GA680JA015	M 68 OHM, J,1/ 16W	2	
	R8645	D0GA680JA015	M 68 OHM, J,1/ 16W	1	
	R8646	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8649	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8652	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8655,5 6	D0GA680JA015	M 68 OHM, J,1/ 16W	2	
	R8660	EXB2HV680J	M 68 OHM 1/16 W	1	
	R8661	D0GA222JA015	M 2.2KOHM, J,1/ 16W	1	
	R8664	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8669	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8671	D0GA222JA015	M 2.2KOHM, J,1/ 16W	1	
	R8733	D1BB1600A055	M 160 OHM,J,1/ 10W	1	
	R8824	D0GA622JA015	M 6.2KOHM, J,1/ 16W	1	PAVCA
	R8856	D0GA473JA015	M 47KOHM, J,1/ 16W	1	
	R8857	D0GA750JA015	M 75 OHM, J,1/ 16W	1	PAVCA
	R8859- 63	D0GA680JA015	M 68 OHM, J,1/ 16W	5	
	R8867	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8868	D0GA330JA015	M 33 OHM, J,1/ 16W	1	
	R8869,7 0	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	2	
	R8871	J0JBC0000098	COIL	1	
	R8872- 77	D0GA330JA015	M 33 OHM, J,1/ 16W	6	
	R8878	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8879	EXB28V103JX	M 10KOHM 1/32 W	1	
	R8890	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	1	
	R8893	D0GAR00Z0001	M 0 OHM, 1/ 16W	1	
	R8900	D0GA680JA015	M 68 OHM, J,1/ 16W	1	
	R8918,1 9	EXB2HV680J	M 68 OHM 1/16 W	2	
	R8920	D0GA222JA015	M 2.2KOHM, J,1/ 16W	1	
	R8922	EXB2HVR000	M 0 OHM 1/16 W	1	
	R8923- 28	D0GA680JA015	M 68 OHM, J,1/ 16W	6	
	R8950	D0GA472JA015	M 4.7KOHM, J,1/ 16W	1	
	R8951	D0GA680JA015	M 68 OHM, J,1/ 16W	1	
	R9970,7 1	D0GB751JA041	M750 OHM J 1/10W	2	
	R9973,7 4	ERJ2GEJ103	M 10KOHM, J,1/ 16 W	2	
	R9990	D0GAR00Z0001	M 0 OHM, 1/ 16W	1	
	R9992	ERJ6ENF5111	M5.11KOHM,F.1/8W	1	
	R9994	D1BA3001A014	M 3KOHM,J.1/16 W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	RL7101, 02	K6B1AYY00060	RELAY	2	PAVCA
⚠	RL7103	K6B1AYY00061	RELAY	1	PAVCA
	RM2500	PNJ4815M01TV	REMOTE SENSOR	1	
	SN2500	B3JB00000078	IC	1	
⚠	T7201	G4D3A0000218	SWITCHING TRANS- FORMER	1	PAVCA
⚠	T7301	G4DYA0000158	SWITCHING TRANS	1	
⚠	T7401	G4DYA0000211	SWITCHING TRANS	1	PAVCA
⚠	T7801	ETJV43ZA11AC	TRANSFORMER	1	PAVCA
⚠	T7803	G4BYA0000022	POWER TRANS- FORMER	1	
⚠	TU8300	ENG36F15KF	TUNER	1	PAVCA
	V10	K1KA07B00135	7P CONNECTOR	1	
	X8000	H0J245500101	CRYSTAL	1	
	X8001	H0J120500062	CRYSTAL	1	
	X8300	H0J250500079	CRYSTAL	1	
	X8301	H0J270500137	CRYSTAL	1	PAVCA
	ZA005	K4ZZ01000267	TERMINAL	1	
	ZA006	K4ZZ01000267	TERMINAL	1	
	ZA007	K4ZZ01000267	TERMINAL	1	
	ZA020	K4ZZ01000267	TERMINAL	1	
	ZA021	K4ZZ01000267	TERMINAL	1	
	ZA022	K4ZZ01000267	TERMINAL	1	
	ZA023	K4ZZ01000267	TERMINAL	1	
	ZA024	K4ZZ01000267	TERMINAL	1	
	ZA025	K4ZZ01000267	TERMINAL	1	
	ZA026	K4ZZ01000267	TERMINAL	1	
	ZA7000- 03	K4AD01A00002	TERMINAL	4	PAVCA

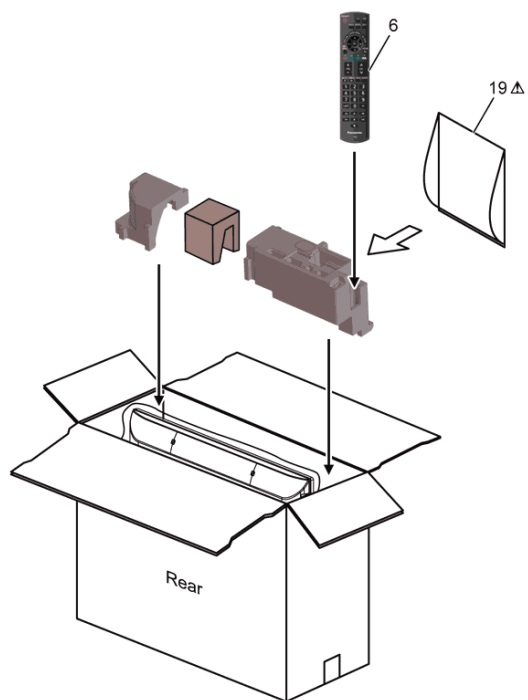
Model No. : TH-37LRU20 Important Safety Notice

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

Model No. : TH-37LRU20 Exploded View



Model No. : TH-37LRU20 Packing and Accessories



Model No. : TH-37LRU20 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		10030-0047500	BATTERY COVER	1	PAVCA
	1	EAS16S789A	SP UNIT	2	
	2	K0RB00700018	CONTROL PANEL COMP	1	CIRCUIT BOARD&PANEL PAVCA
	3	K1SYYYB0004	TUNER_EXTENSION_ADAPTER	1	PAVCA
	4	K2CB2YY00026	AC CORD	1	PAVCA
	5	L5EDD9Q00010	LCD PANEL	1	PAVCA
	6	N2QAYB000485	REMOTE CONTROLLER	1	PAVCA
	7	TBL2AA3005	STAND MTG	1	PAVCA
	8	TBL2AX0033S	PEDESTAL ASS'Y	1	PAVCA
		TEWF203	ALUMINUM TAPE (15x80MM)	2	PAVCA
		TEWF204	ALUMINUM TAPE (25x65MM)	1	PAVCA
		TEWF208	ALUMINUM TAPE (15x40MM)	3	PAVCA
	9	THNA010N	NUT	1	
	10	THW40973N	WASHER	1	
	11	THWC018N	WASHER	1	
	12	TKK2AA7901	COVER (ADJ. WINDOW)	1	PAVCA
	13	TKK2AC5003	LED PANEL	1	PAVCA
	14	TMK2AX123	PANEL LVDS BARRIER	1	PAVCA
		TMKK389	FELT	1	
		TMKK398	FELT	1	
		TMM7473-1	CLAMPER	1	
		TMME260	CLAMPER	1	
		TMME268	CLAMPER	12	
		TMME379	CLIP FOR HEAT SINK	3	
		TMME381	EDGE SADDLE	1	PAVCA
	15	TMW2AA051	AC CODE BRACKET	1	PAVCA
	16	TMW2AX031-1	SP BRACKET-L	2	PAVCA
	17	TMW2AX032-1	SP BRACKET-R	2	PAVCA
	18	TMX2AE009	BRACKET-IP	1	PAVCA
	19	TQB2AA0589	INSTRUCTION BOOK	1	PAVCA
	20	TSXM154	LVDS CABLE	1	PAVCA
	21	TXFKP10XSER	SIDE AV BRACKET	1	PAVCA
	22	TXFKU39XSER	REAR COVER	1	PAVCA
	23	TXFKY011NDU	CABINET ASSY	1	PAVCA
		TXJA121NDU	SPEAKER LEAD (A12-SP)	1	PAVCA
		TXJTNR1MDU	ANALOG - DIGITAL TUNER - CABLE	1	PAVCA
		THEJ024	SCREW	21	
		THEJ025	SCREW	2	
		THEL047J	SCREW	3	
		THM2AB001	SCREW	4	PAVCA
		THTD020J	SCREW	21	
		TKK2AF5001	SCREW	1	PAVCA
		XSN3+4FJ	SCREW	2	

Model No. : TH-37LRU20 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	24	XSS4+16FJK	SCREW	4	PAVCA
		XSS6+12FJK	SCREW	2	
		XTB4+12JFJ	SCREW	2	
		XTB4+15JFJ	SCREW	15	
		XTB4+18JFJK	SCREW	14	
		XTV3+10GFJK	SCREW	4	
		XTW3+12TFJ	SCREW	2	
		XYN3+J8FJ	SCREW	6	
	25	XYN4+F12FJK	SCREW	4	