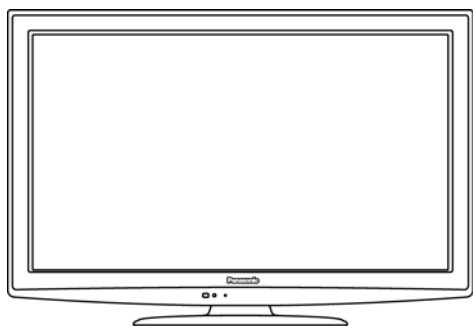


Service Manual

22 inch Class 720p LCD HDTV

Model No. **TC-L22X2**

Chassis: LA03



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 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 0.15 μ F 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.

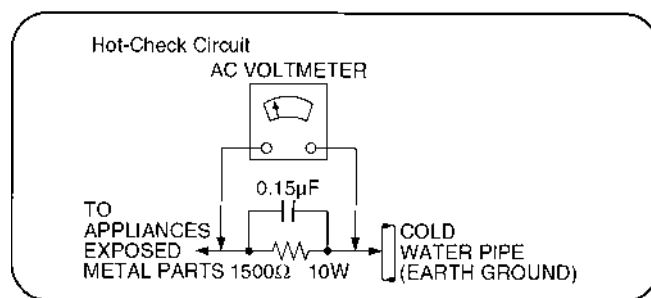


Figure 1

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).

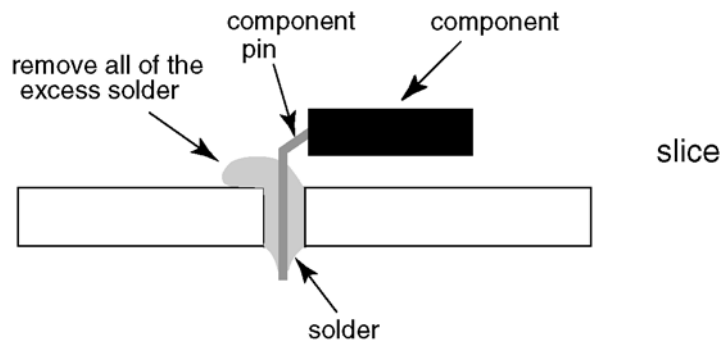
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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)



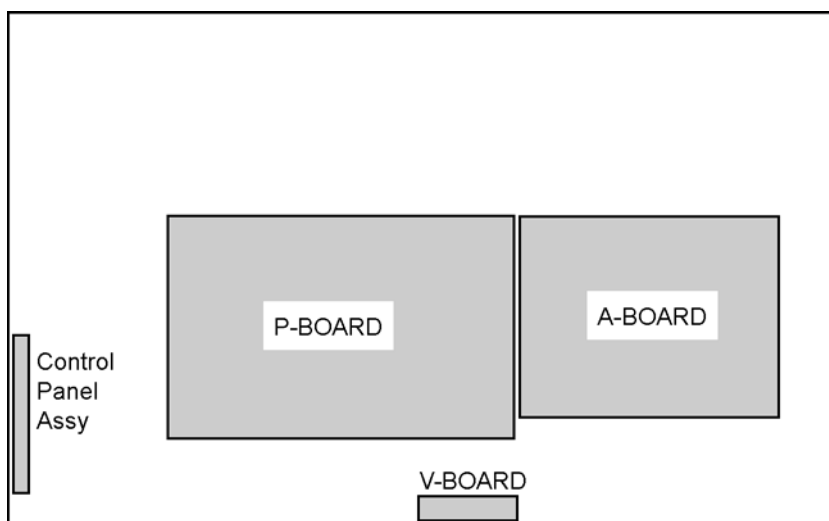
Suggested Pb free solder

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.

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

3 Service Navigation

3.1. Service Hint



Board Name	Function
A-Board	Rear Terminal, AV Switch, MCU, Audio & Video Processor, LVDS, Tuner
V-Board	Remote Receiver, LED
P-Board	Power (AC/DC), DC-DC
Control Panel Assy	Control Button, Power switch, (K BOARD)

3.2. Applicable signals

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, P_B, P_R), 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	*	*	
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	31.47	59.94			*
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	47.70	60.00			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00			*

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	50 W	
Standby Condition	0.5 W	
Display panel		
Aspect Ratio	16:9	
Visible screen size	22" class (21.6 inches measured diagonally)	
(W × H × Diagonal)	18.8" × 10.6" × 21.6" (477 mm × 268 mm × 549 mm)	
(No. of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	
Sound		
Speaker	1-way 2 speaker slim under SP system	
Audio Output	6 W [3 W + 3 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	
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	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)
	P _B , P _R :	±0.35 V [p-p]
	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
HDMI	TYPE A Connector • 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 5V 500mA 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	21.4" × 15.9" × 7.5" (543 mm × 402 mm × 189 mm)	
TV Set only	21.4" × 14.3" × 2.4" (543 mm × 363 mm × 60 mm)	
Mass		
Including TV stand	15.4 lb. (7.0 kg) NET	
TV Set only	13.2 lb. (6.0 kg) NET	

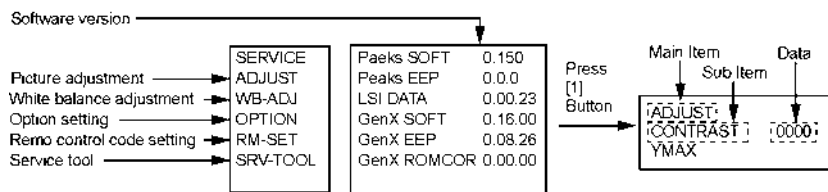
Note

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	000	
	COLOR	4C	
	TINT	00	
	SUB-BRT	808	
	BACKLGT	22E	
	B-Y-G	34	
	R-Y-A	00	
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	00	
	CLOCK	0E4	
RM-SET		00	Fixed.
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.

	SRV-TOOL	
Display of TD2Microcode version →	TD2Microcode: 81c00011	
Display of Flash ROM maker code →	Flash ROM : 1 - 227E	
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00	Time 000040:40 Count 0000049

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 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. Service Mode Adjustment

- 1. Press the “RECALL” button on the remote control and press “-” vol button on the LCD panel.
- 2. Press button number 1 on the remote control to select for Adjustment.
- 3. Self Check to Exit.

5.3.1. Self Check Mode

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

5.3.2. Hotel Mode Adjustment

- 1. Press the “VOLUME DOWN” button on the TV panel and simultaneously press the AV button on the remote control 3 times to enter Hotel Mode.
- 2. Set Hotel mode “on”, then press “EXIT” to come out.

Hotel Mode

Mode	ON
Input	---
Channel	--
Volume	100
Vol Max	0
OSD Ctrl	OFF
FP Ctrl	OFF
Pow Ctrl	ON

Change

Select

RETURN

item	Function
Mode	Select hotel mode ON / OFF
Input	RF / HDMI / COMPONENT / VIDEO / PC
Channel	--
Volume	0 - 100
Vol max	0 - 100
OSD Ctrl	OFF / Patern 1
Pow Ctrl	OFF / ON

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

SELF CHECK		--- . XXXXXX - XXXXXX
PEAKS	OK	
TUN1	OK	
FE	OK	
Hudson	OK	
MEM2	OK	
MEM3	OK	
MEM4	OK	
Copyright Panasonic Corporation 2009.		

6.1.4. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Ref. No.	Description	P.C.B.
PEAKS	IC8001	PEAKS LITE 2P	A-Board
TUN1	TU8300	TUNER	A-Board
FE	IC8300	FRONT END	A-Board
Hudson	IC4003	Hudson2	A-Board
MEM2	IC8503	EEPROM	A-Board
MEM3	IC4004	EEPROM	A-Board
MEM4	IC4504	EEPROM	A-Board

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

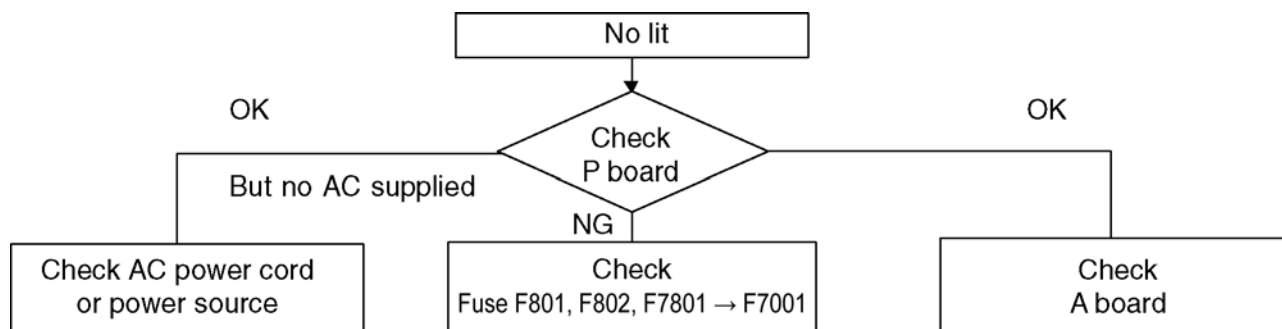
Blinking times	Contents	BOARD
1	BACK LIGHT_SOS	P BOARD
3	PANEL POWER_SOS	A BOARD
4	DTV12V_SOS	P/A BOARD
7	SUB 3.3V_SENSE	A BOARD
9	SOUND SOS	A BOARD
13	EMERGENCY_SOS	A BOARD

6.3. No Power

First check point

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

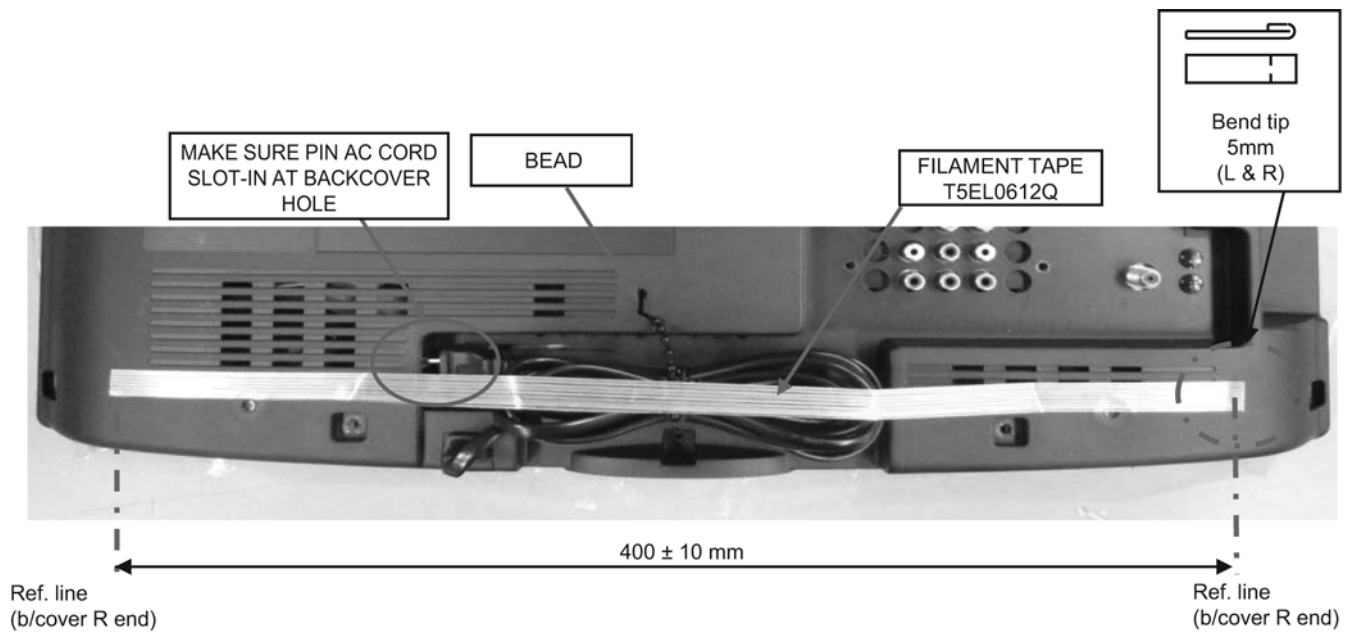
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

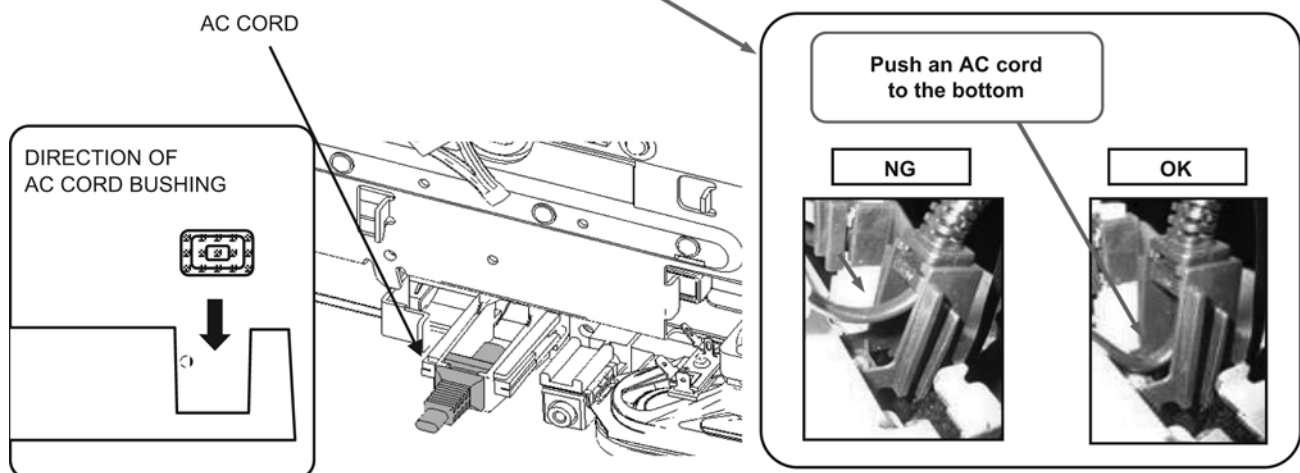
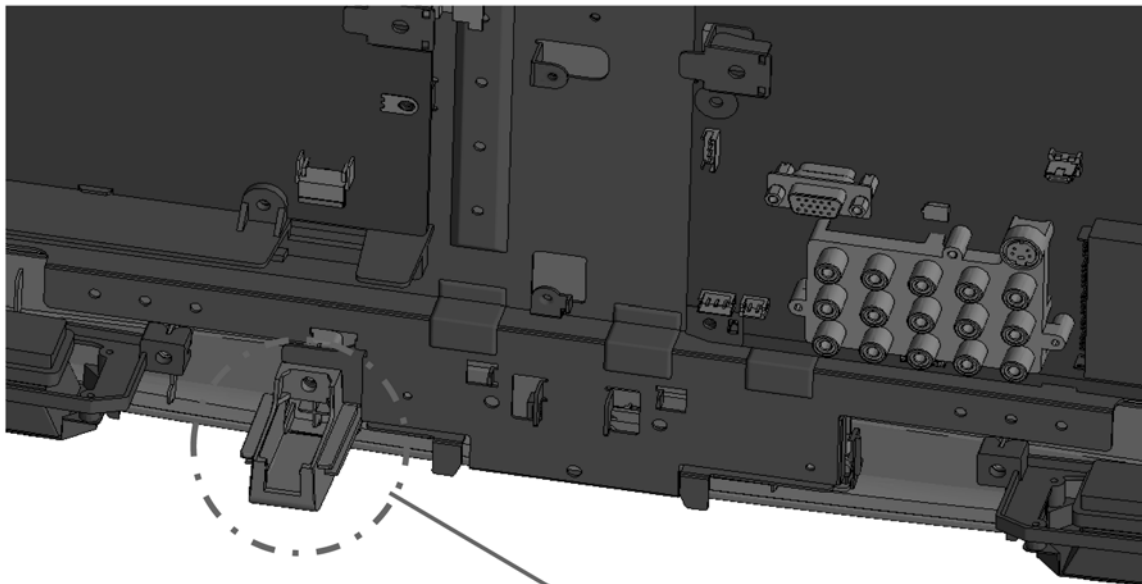
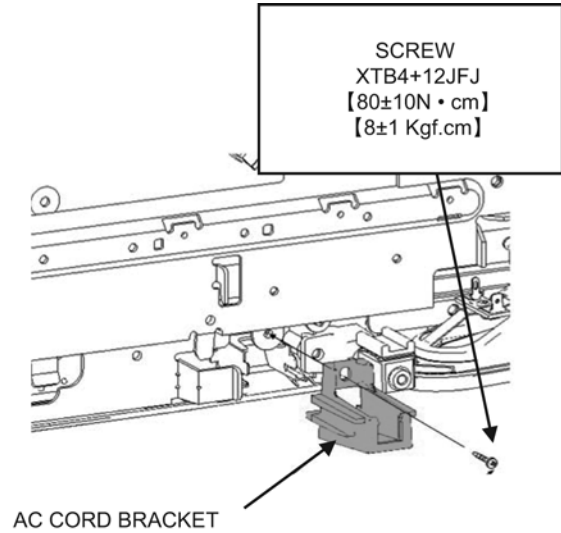
7.1. AC Cord Dressing

Insert beads 3pcs. And slide down to lower hole.



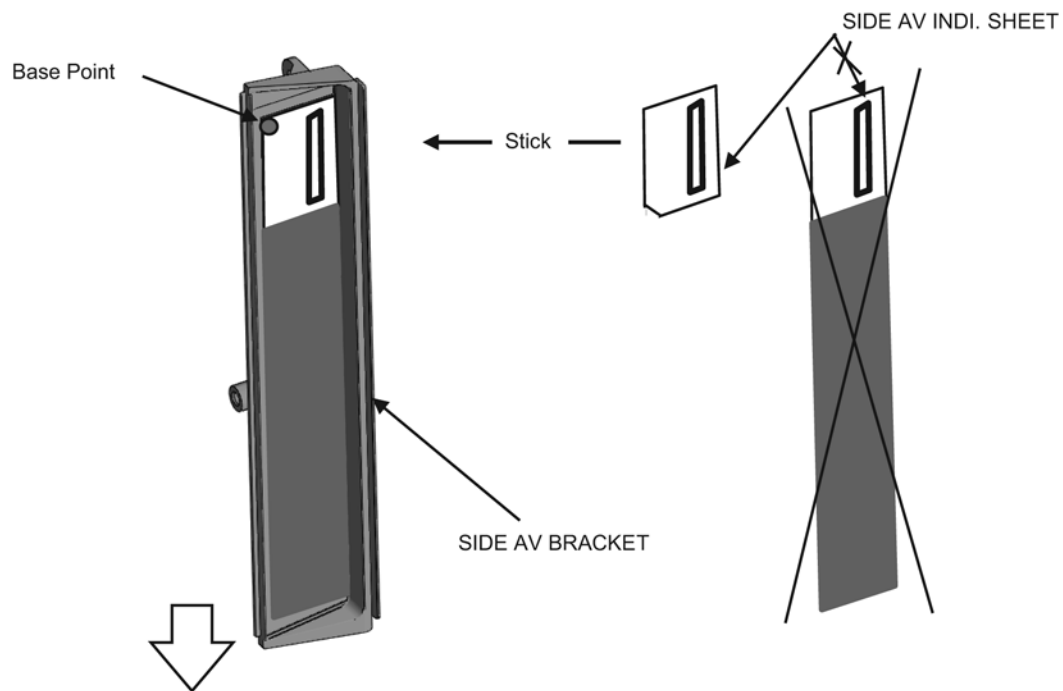
7.2. AC Cord Bracket Installation

1. Put on the AC CORD BRACKET on the CABINET.
2. Fix the AC CORD BRACKET with SCREW.
3. Insert AC CORD connector into P-PCB connector.
4. Clamp the AC CORD.
5. Insert AC CORD bushing into the AC CORD BRACKET.
6. AC cord is pushed into the bottom of the bracket.

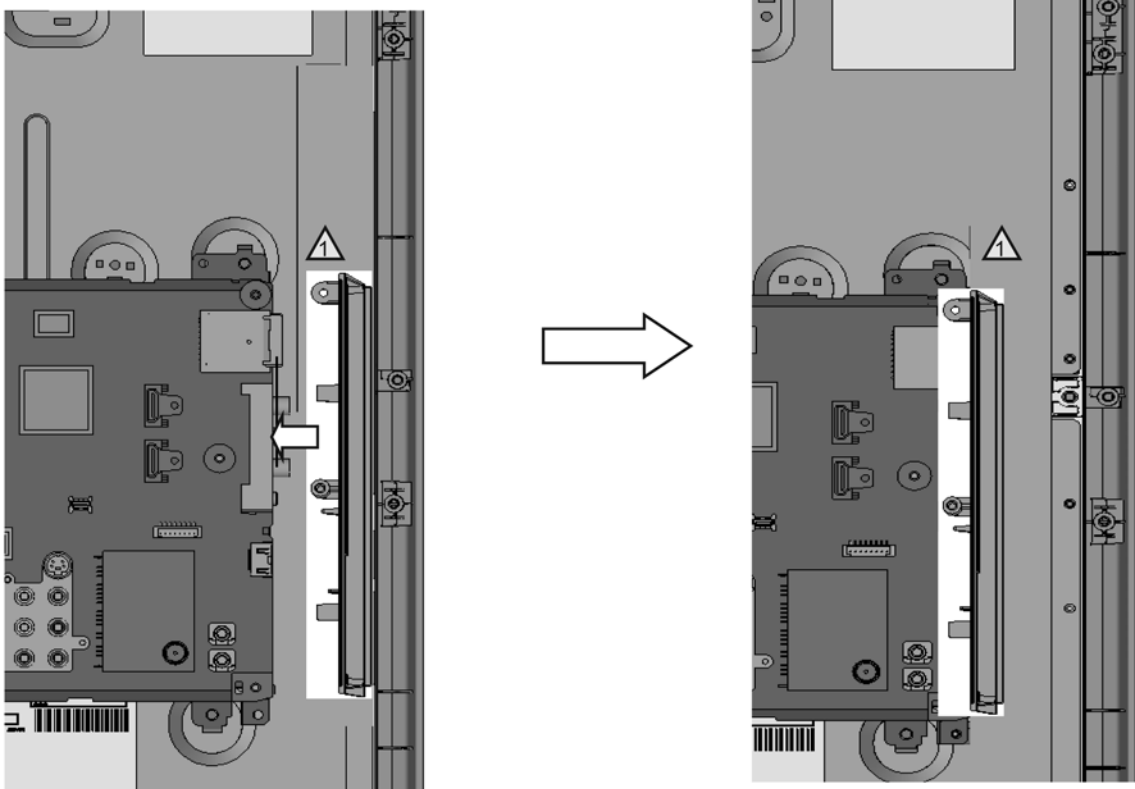


7.3. Side AV Bracket Installation

Stick the SIDE AV INDI. SHEET on the SIDE AV BRACKET.

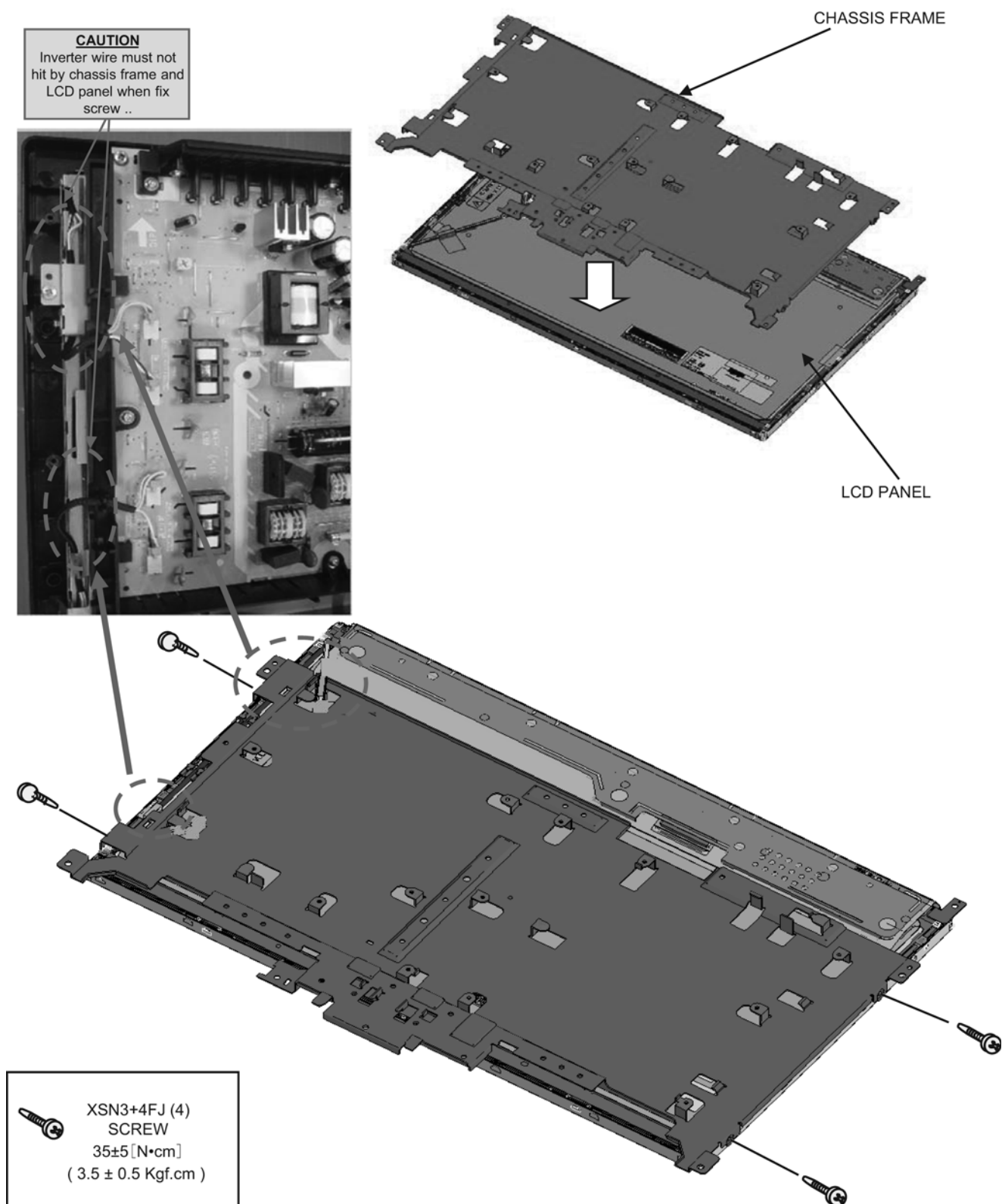


Put SIDE AV BRACKET to A-BOARD.



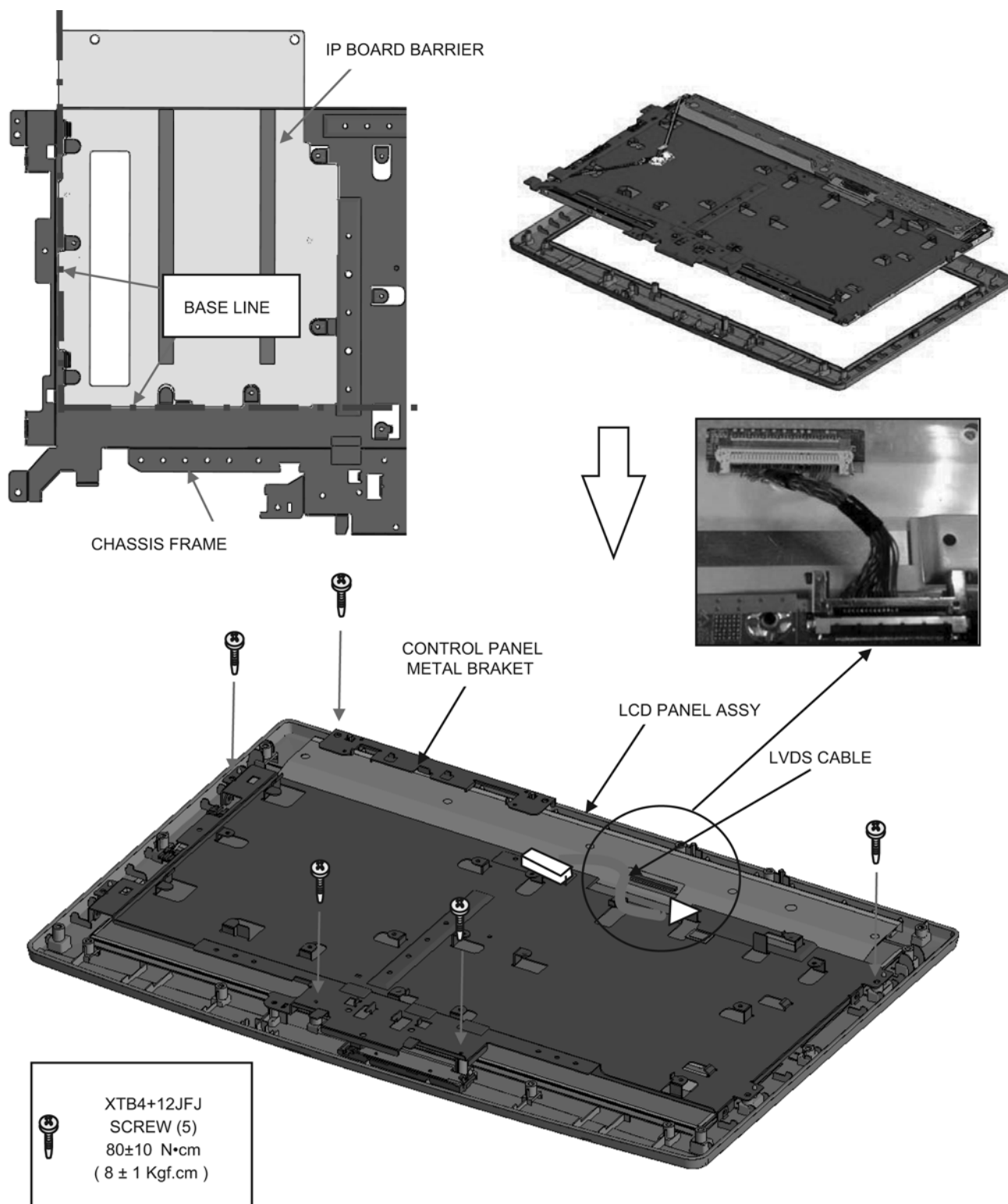
7.4. LCD Panel Installation 1

Put CHASSIS FRAME to LCD PANEL and fix screw at LCD PANEL.



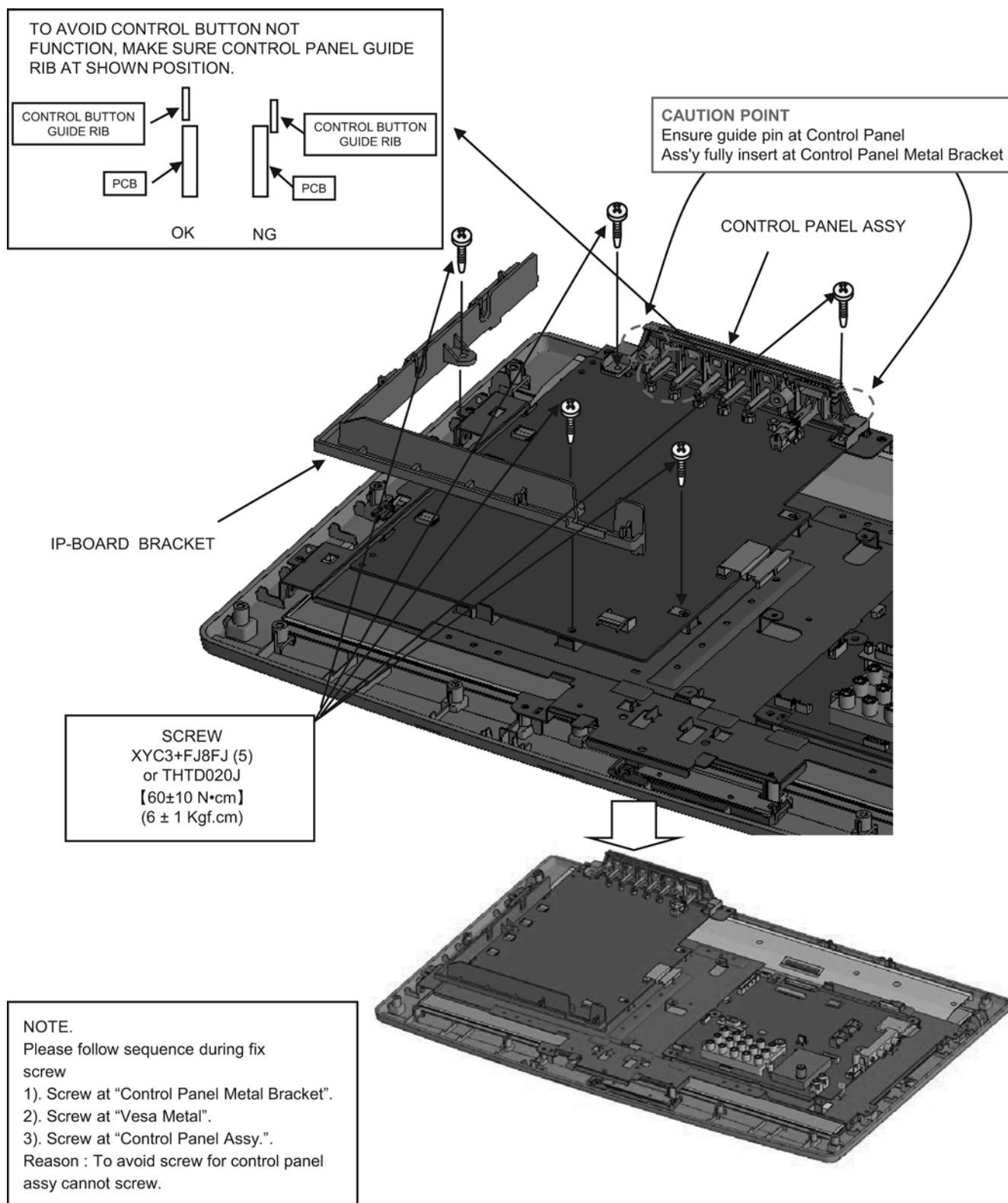
7.5. LCD Panel Installation 2

1. Put IP BOARD BARRIER on the CHASSIS FRAME.
2. Put LCD PANEL on the CABINET.
3. Insert LVDS CABLE at LCD PANEL.
4. Fix CONTROL PANEL METAL at CHASSIS FRAME and CABINET
5. Fix LCD PANEL with SCREWS.



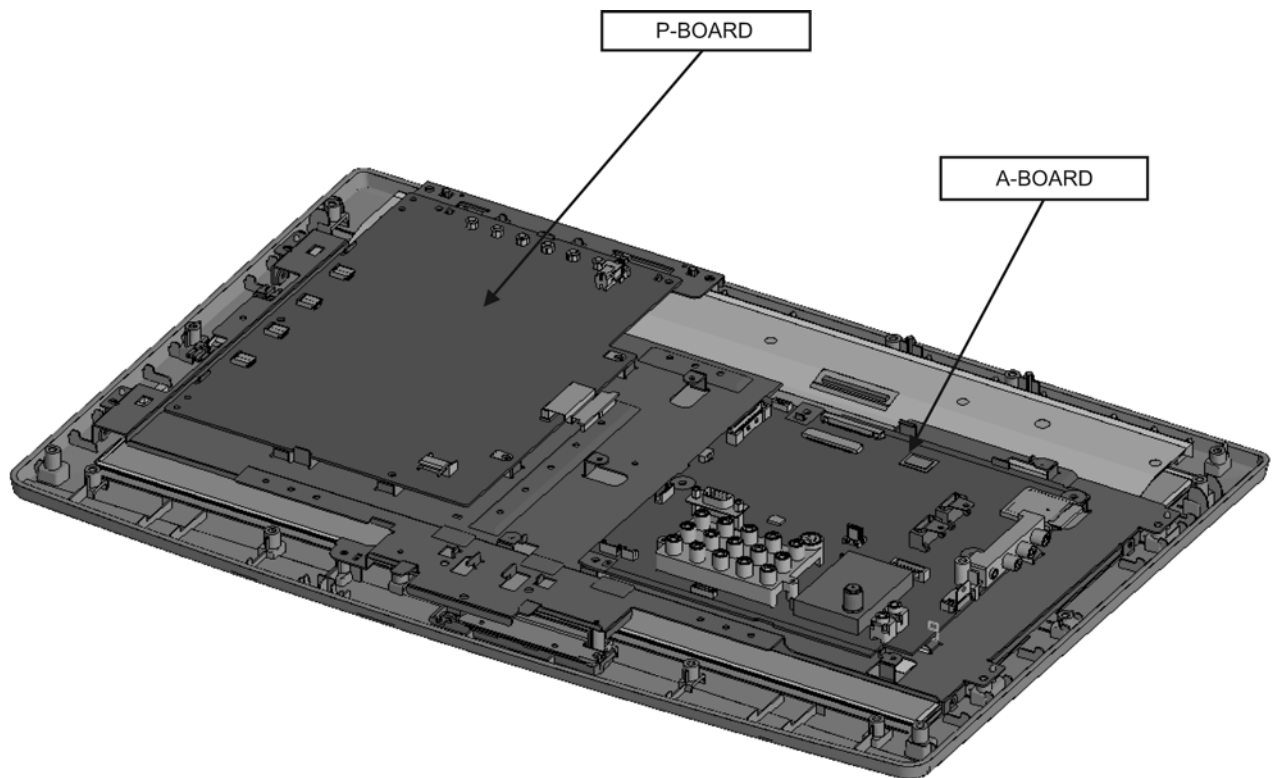
7.6. IP-Board Bracket and Control Panel Assembly Installation

1. Put IP-BOARD BRACKET and CONTROL PANEL ASSY to LCD PANEL ASSY with SCREWS.
2. Put CONTROL PANEL ASSEMBLY on the SET and fix with SCREWS.

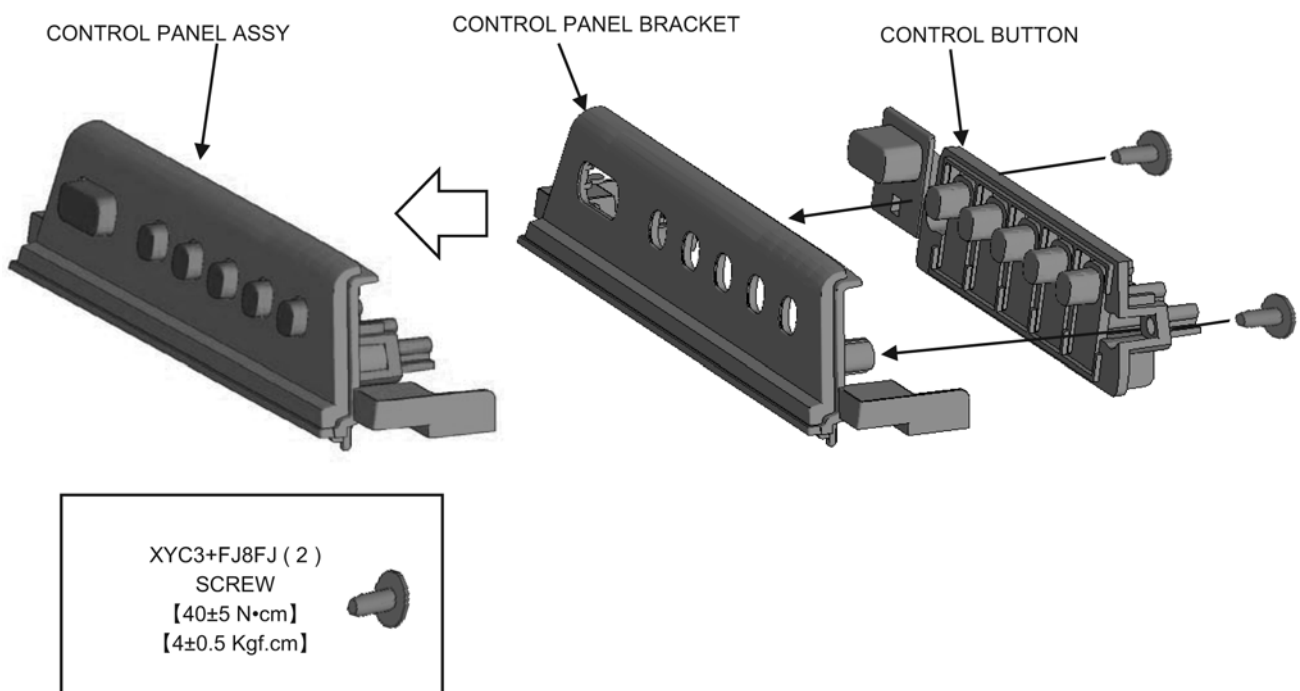


7.7. Board and Control Panel Assembly Installation

Put P-BOARD and A-BOARD.

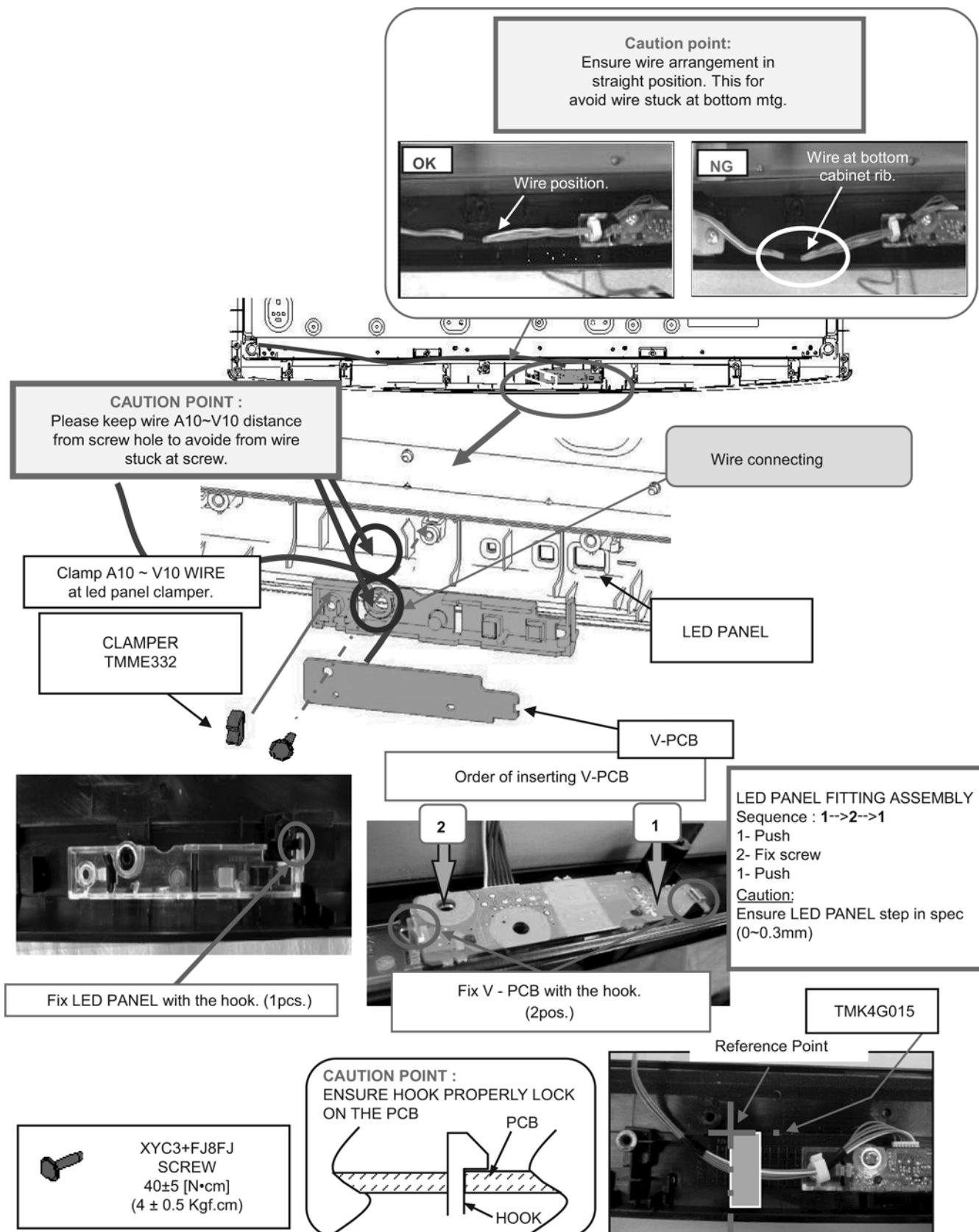


Fix CONTROL PANEL BRACKET and CONTROL BUTTON with SCREWS.



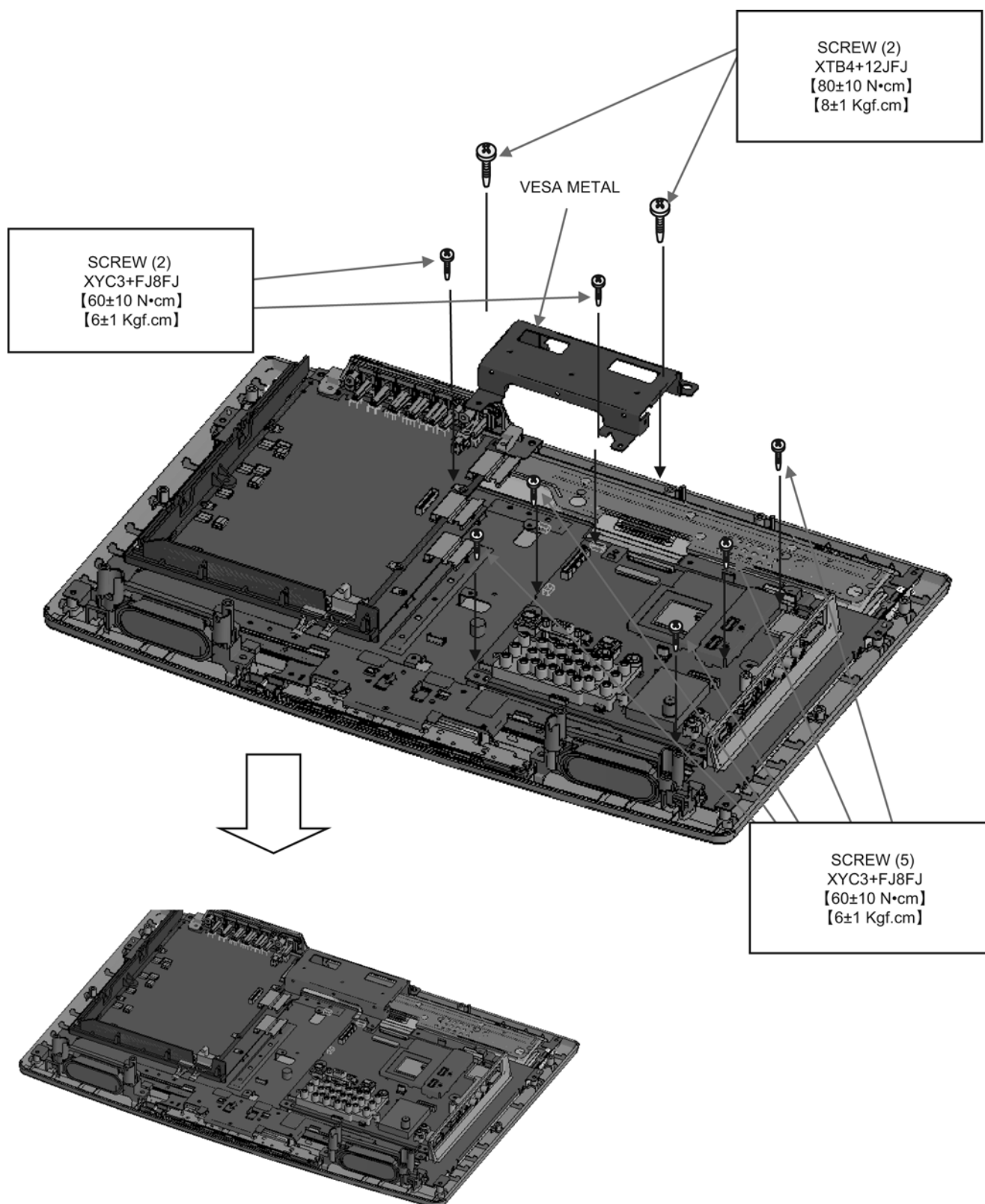
7.8. LED Panel Installation & Fitting

1. Fix LED PANEL on CABINET.
2. Insert an A10-V10 lead connector in V-Print.
3. Put V-PCB on LED PANEL.
4. Fix LED PANEL ass'y with SCREW.
5. Insert the CLAMPER.
6. Stick felt at A10 ~ V10 wire.



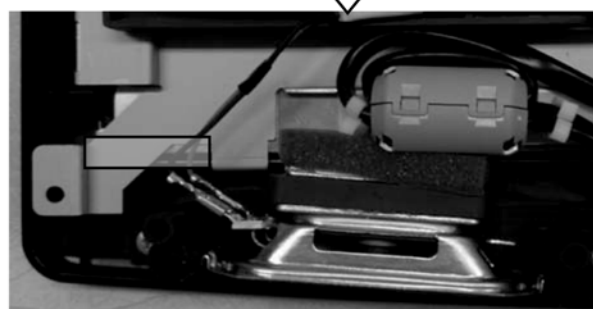
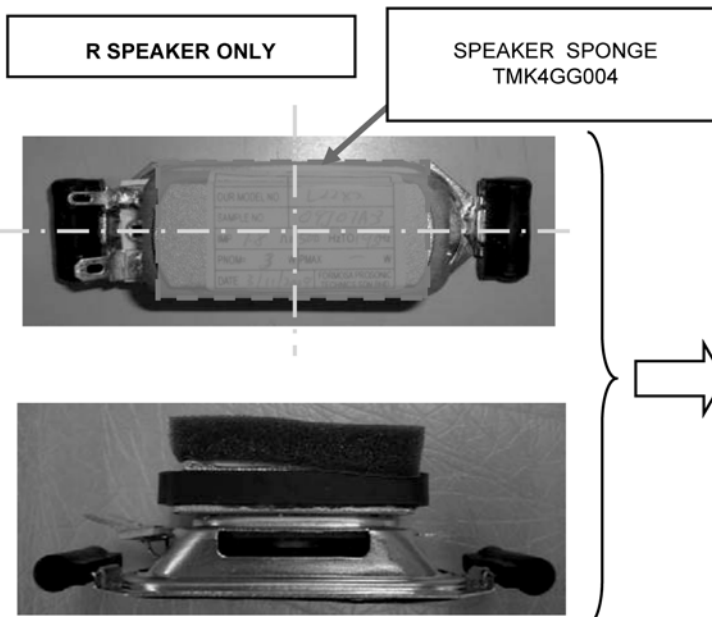
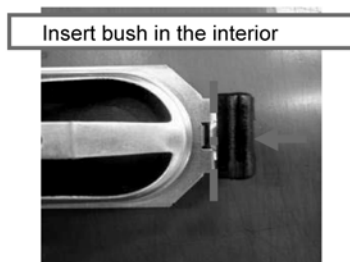
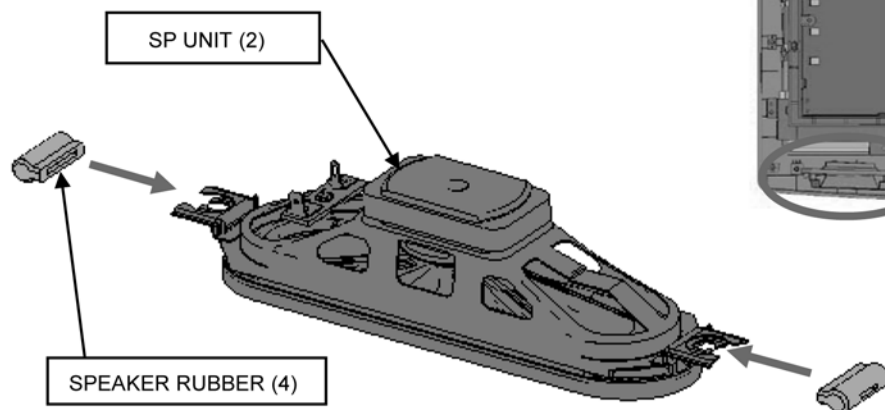
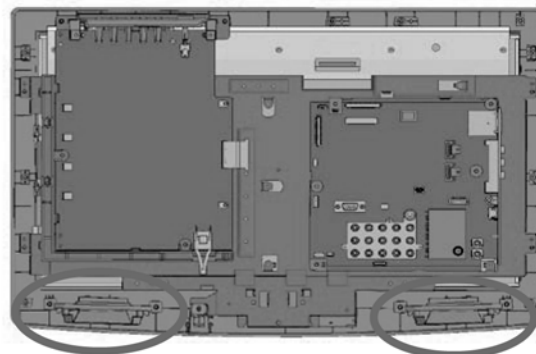
7.9. Screw Fixing

1. Fix VESA METAL at SET.
2. Fix SCREWS at VESA METAL and A-BOARD.



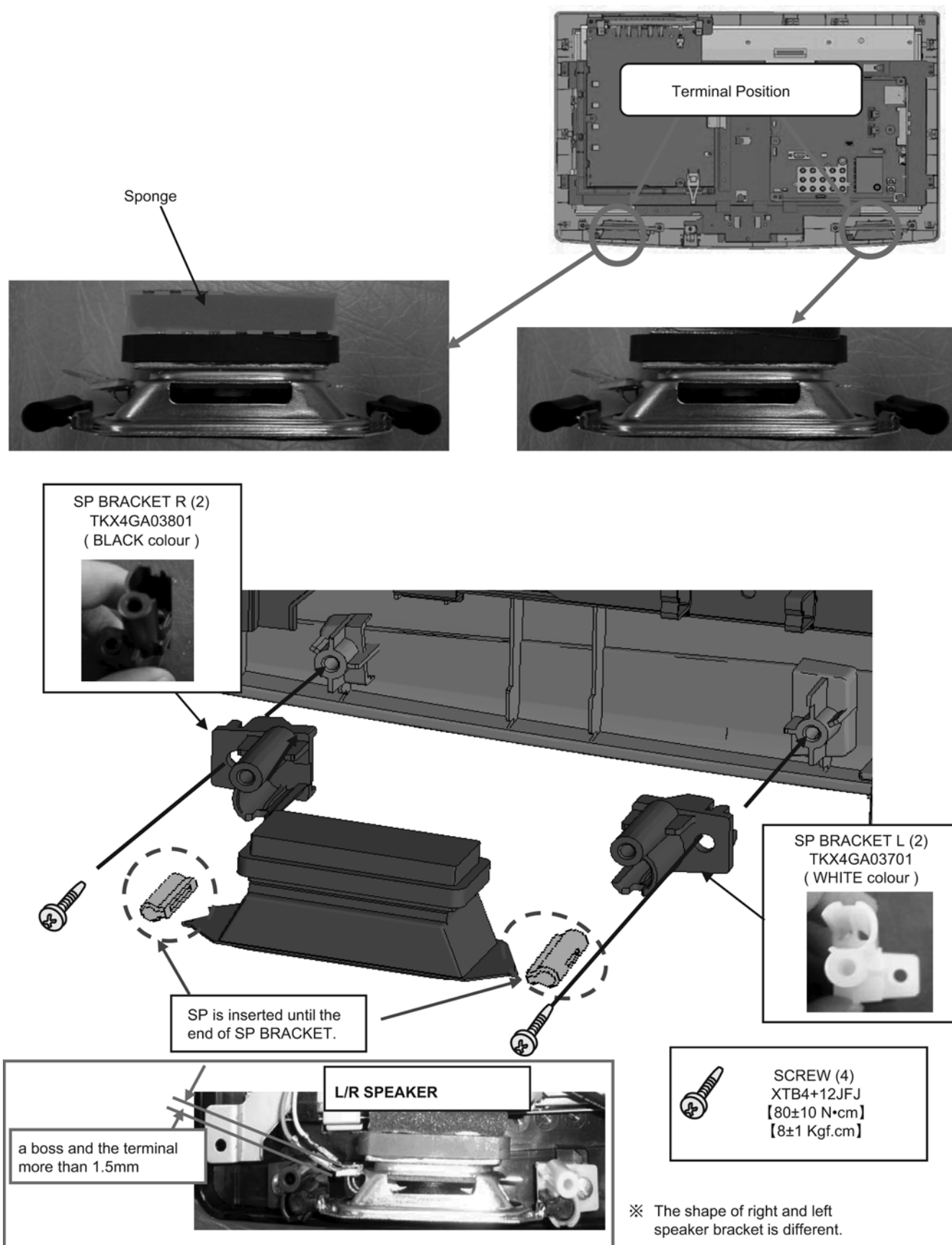
7.10. Speaker Preparation

1. Fix SPEAKER RUBBER on SP UNIT.
2. Stick SPEAKER SPONGE at Right SPEAKER only.
3. Stick FELT at CHASSIS FRAME.



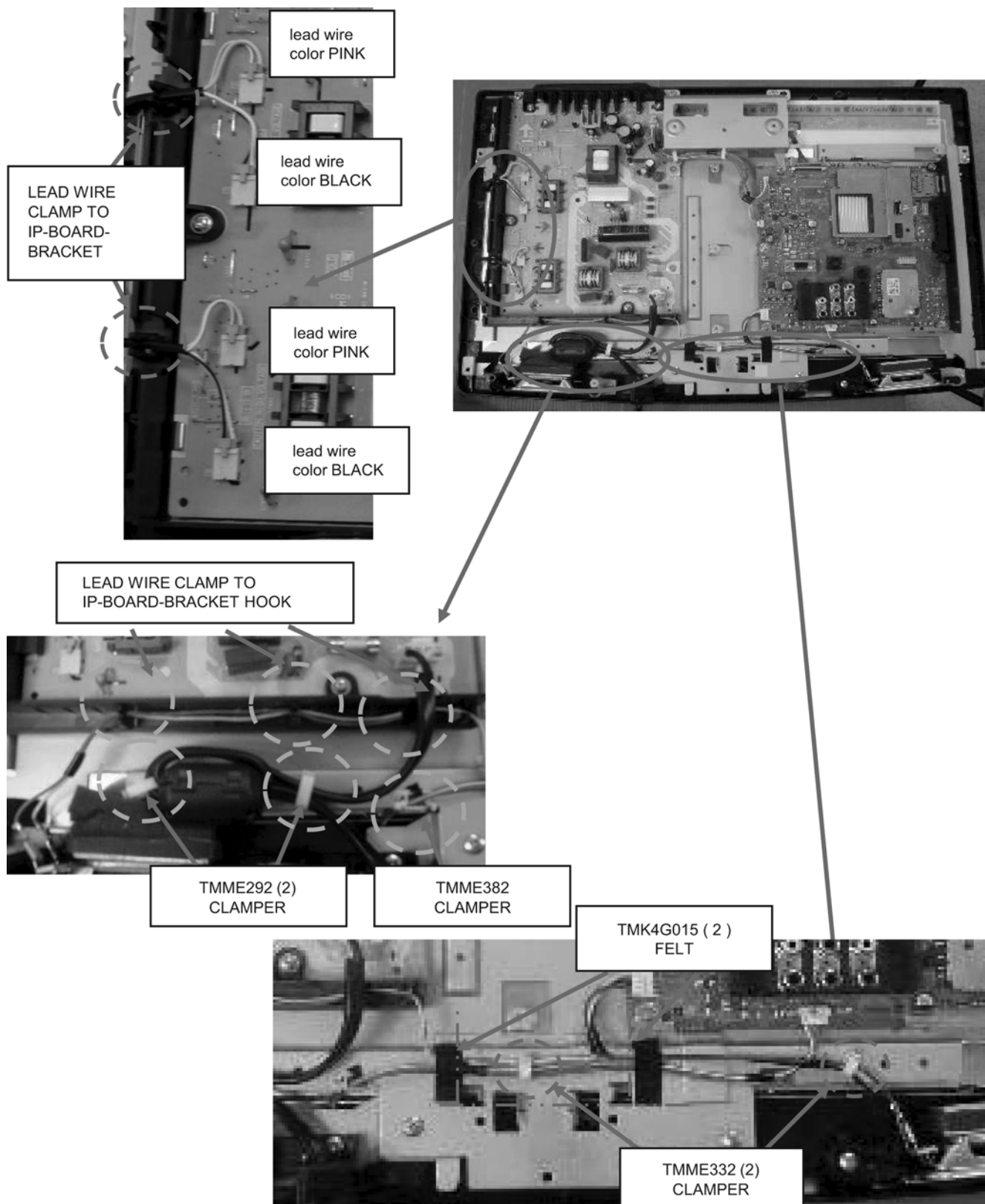
7.11. Speaker Installation

1. Put SP BRACKET on the CABINET.
2. Fix them with SCREW.
3. Slot the SPEAKER UNIT.



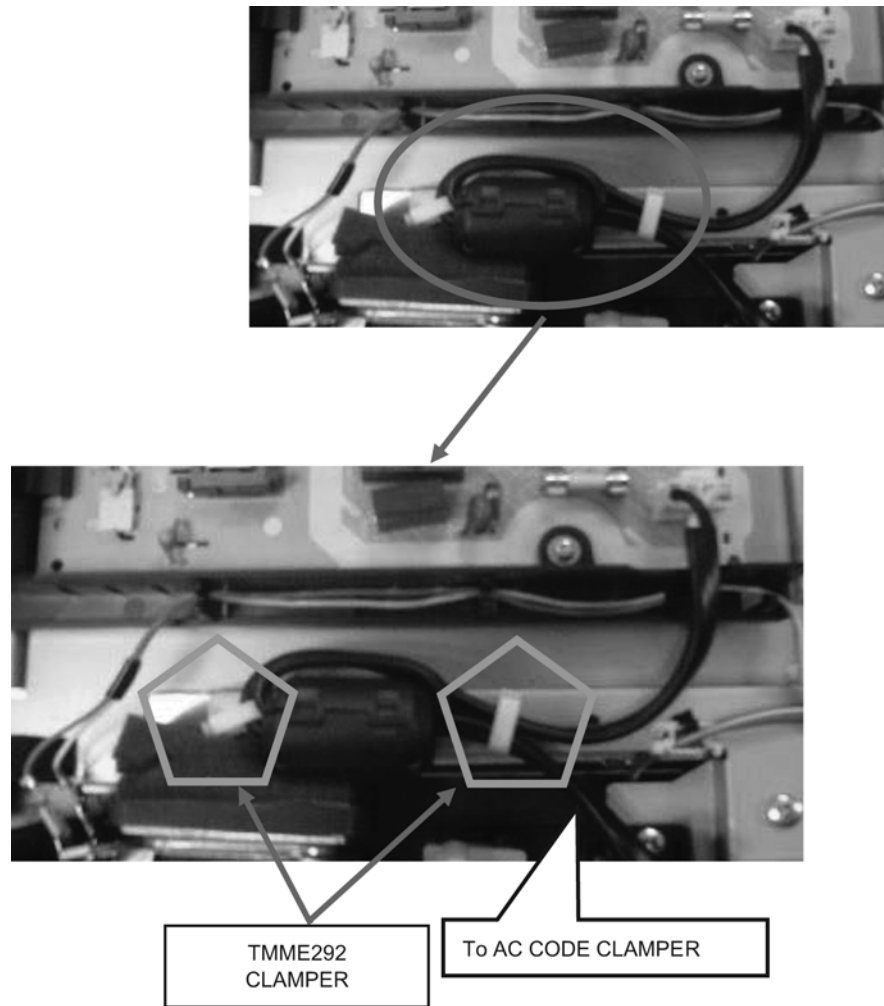
7.12. Wire Dressing 1

Put CLAMPER to LCD PANEL ASSY.



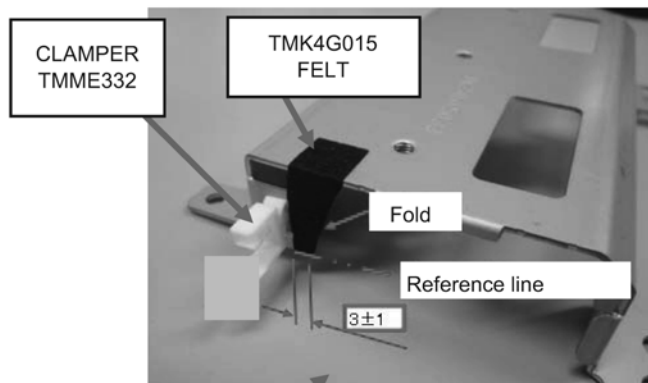
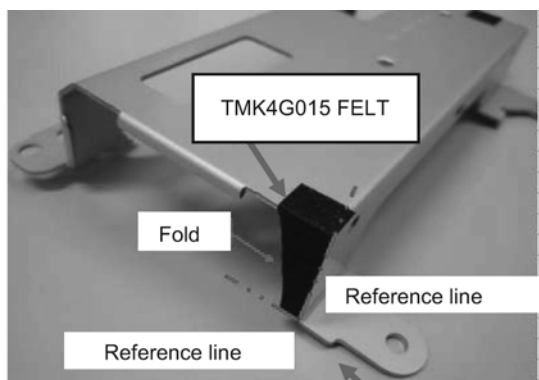
7.13. Wire Dressing 2

Line processing detail.

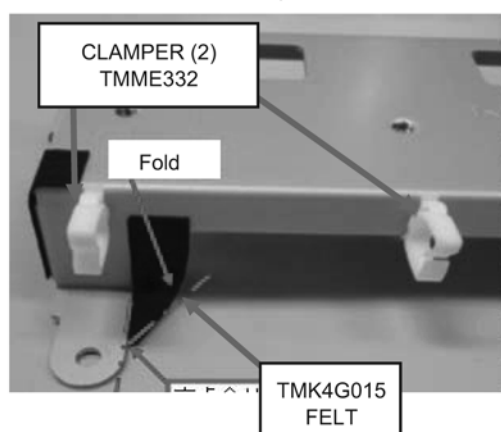
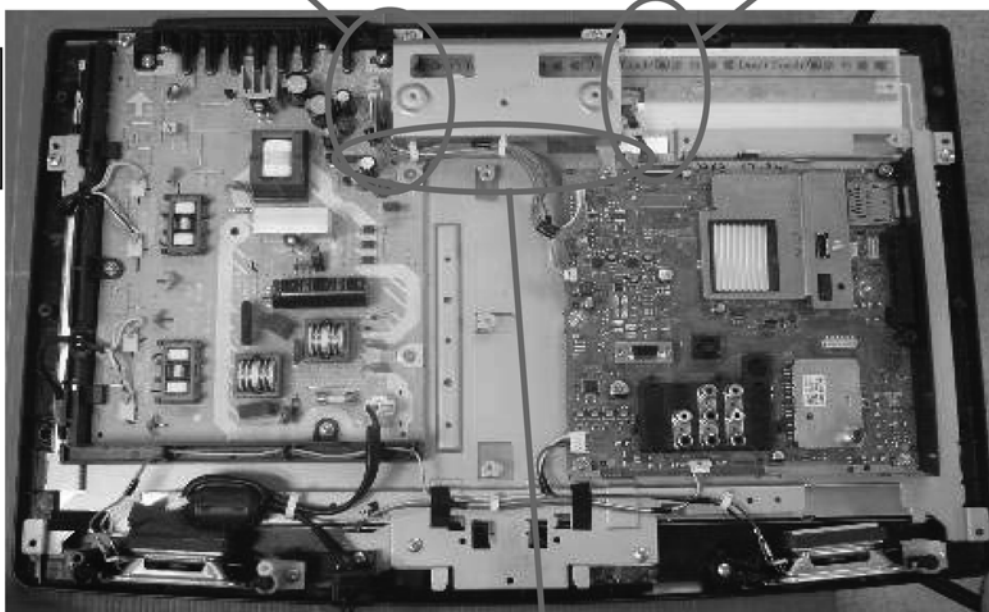


7.14. Wire Dressing 3

Put FELT on the VESA METAL.

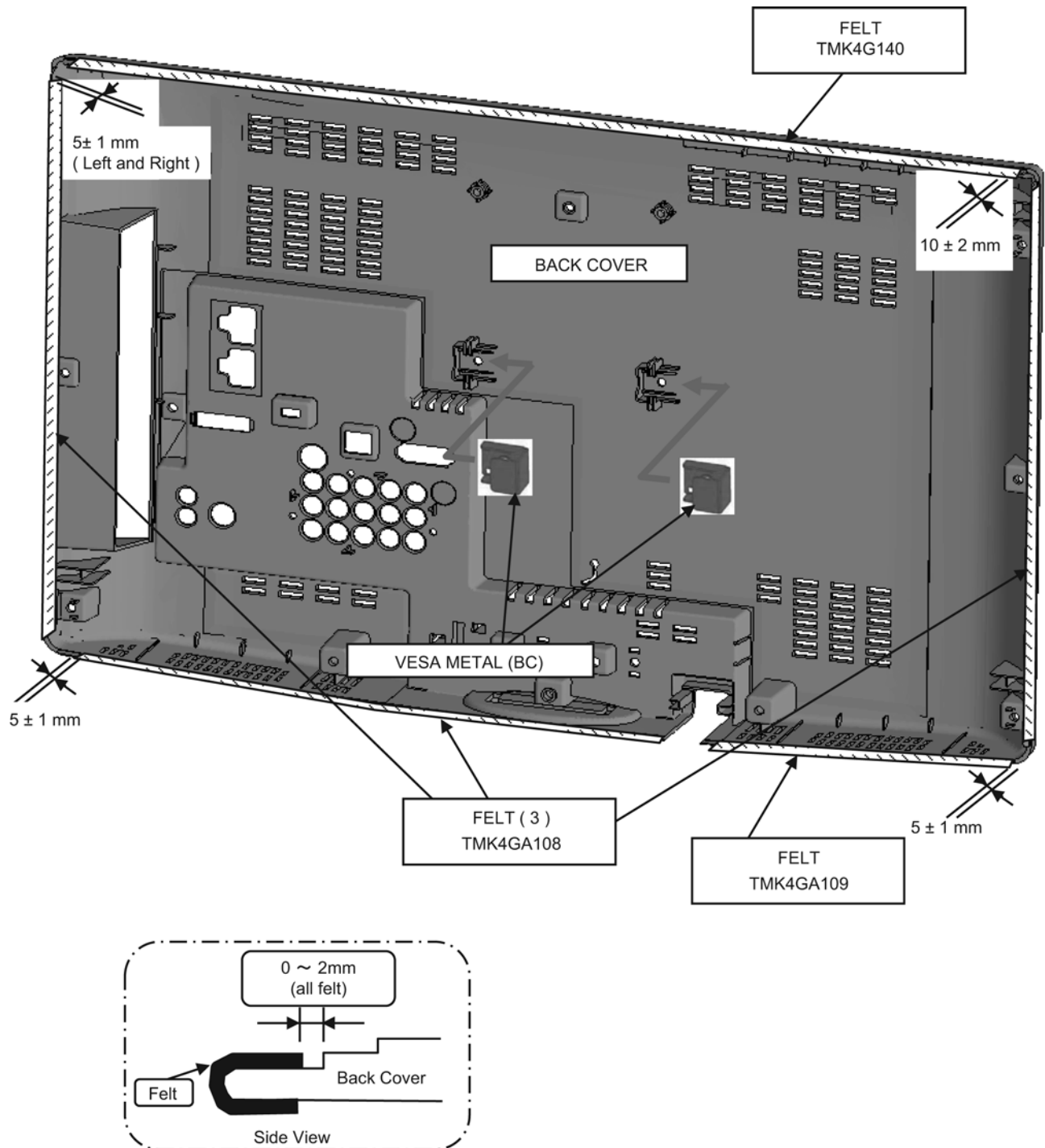


REVISE TO
ACTUAL WIRE
DRESSING



7.15. Back Cover - Felt Sticking

1. Put FELT to BACK COVER.
2. Put VESA METAL(BC) on the BACK COVER.



8 Measurements and Adjustments

8.1. 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
SUB9V	TP2300,TP2301	9 ± 0.45 V
SOUND15V	TP2765	17 ± 0.85 V
PANEL12V	TP5413	12 ± 0.6 V
5VS	TP2768	5.7 ± 0.28 V
SUB6V	TP2767	5.7 ± 0.28 V
TCON13.7V	TP7019	13.7 ± 0.41 V
TCON2.5V	TP7021	2.5 ± 0.12 V
TCON31V	TP7031	31 ± 31 V
TCON-6V	TP7014	-6 ± 0.6 V

only miniLVDS model

8.2. Picture level adjustment (RF)

Instrument Name	Remarks
1. REMOTE TRANSMITTER 2. Ex. Signal (Sprit color bar)	
Adjustment or Inspection Procedure	Remarks
<p><procedure></p> <p>1. Receive the Sprit color bar. (Screen mode: ZOOM or FULL Picture mode: DYNAMIC AI: OFF AI Picture: OFF) *BACK LIGHT +30</p> <p><Inspection></p> <p>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.</p> <div data-bbox="442 1303 791 1565" data-label="Image"> </div> <p>(The Sprit Color Bar Pattern)</p>	

8.3. Picture level adjustment (VIDEO)

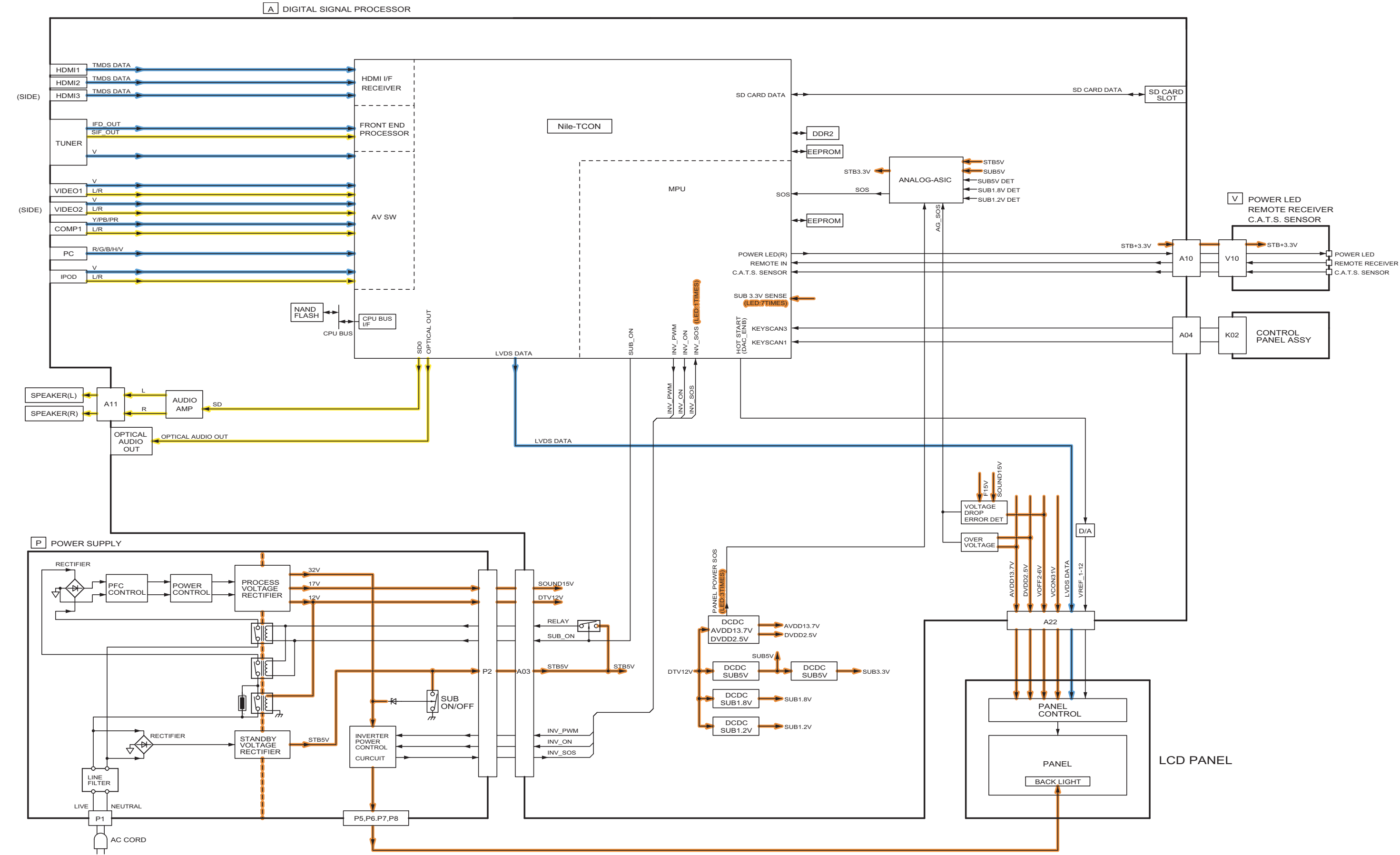
Instrument Name	Remarks
1. REMOTE TRANSMITTER 2. Video signal generator (100% Color bar)	
Adjustment or Inspection Procedure	Remarks
<procedure> 1. Receive 100% Color bar. (ASPECT: ZOOM or FULL, Picture mode: VIVID, AI Picture: OFF) * BACK LIGHT MAX VALUE <Inspection> 1. Enter Service mode, and select ADJUST CONTRAST. Volume UP/DOWN key makes GAIN value displayed on the right of CONTRAST to set. Pushing the remote controller [OK] key for about 3 seconds, GAIN is suited to the adjustment value automatically.	

8.4. Picture level adjustment (YUV)

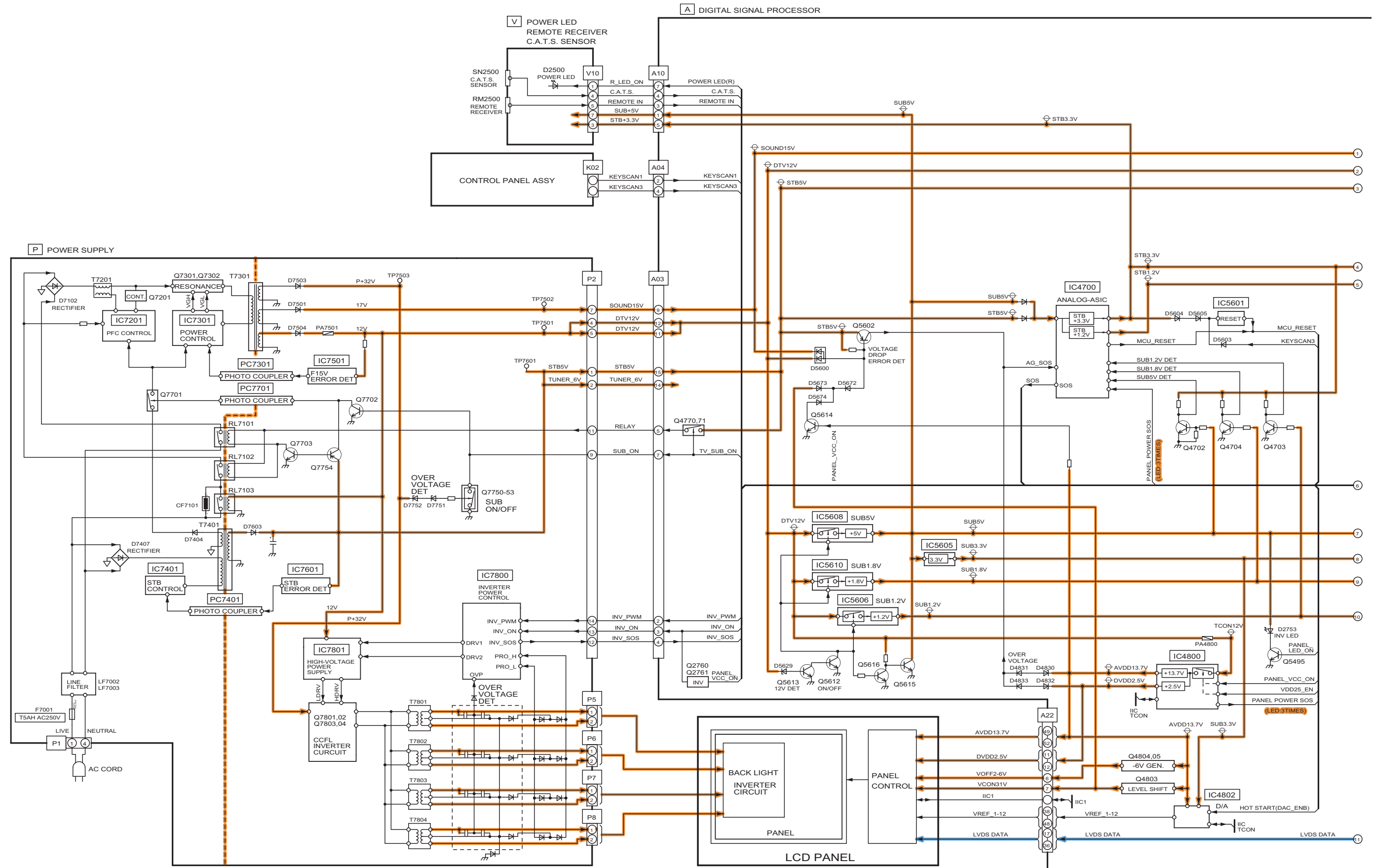
Instrument Name	Remarks
1. REMOTE TRANSMITTER 2. Component Video signal generator (100% Color bar 1080i)	
Adjustment or Inspection Procedure	Remarks
<procedure> 1. Receive 100% Color bar. (ASPECT: ZOOM or FULL, Picture mode: VIVID, AI Picture: OFF) * BACK LIGHT MAX VALUE <Inspection> 1. Enter Service mode, and select ADJUST CONTRAST. Volume UP/DOWN key makes GAIN value displayed on the right of CONTRAST to set. Pushing the remote controller [OK] key for about 3 seconds, GAIN is suited to the adjustment value automatically.	

9 Block Diagram

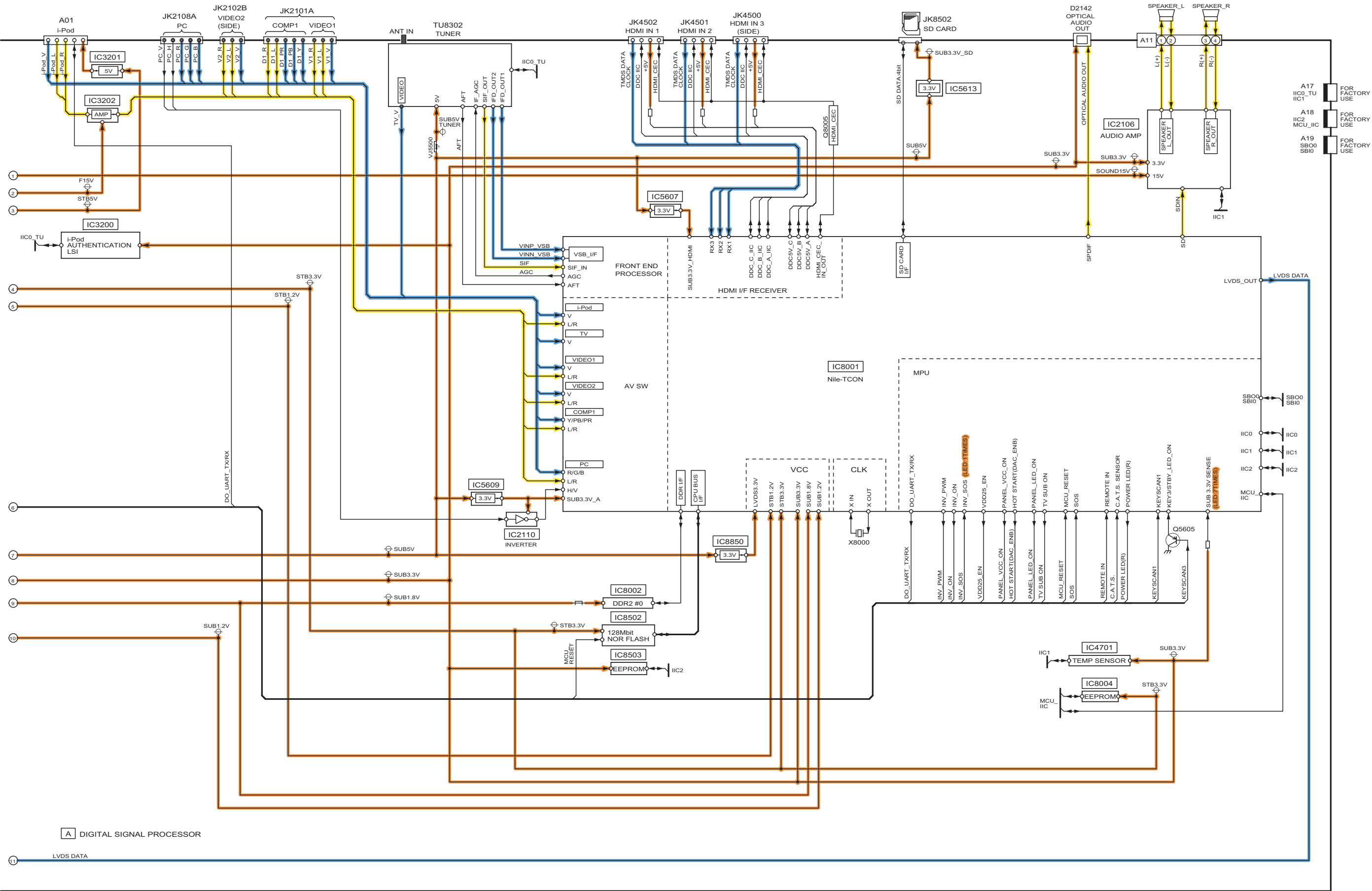
9.1. Main Block Diagram



9.2. Block Diagram (1/2)

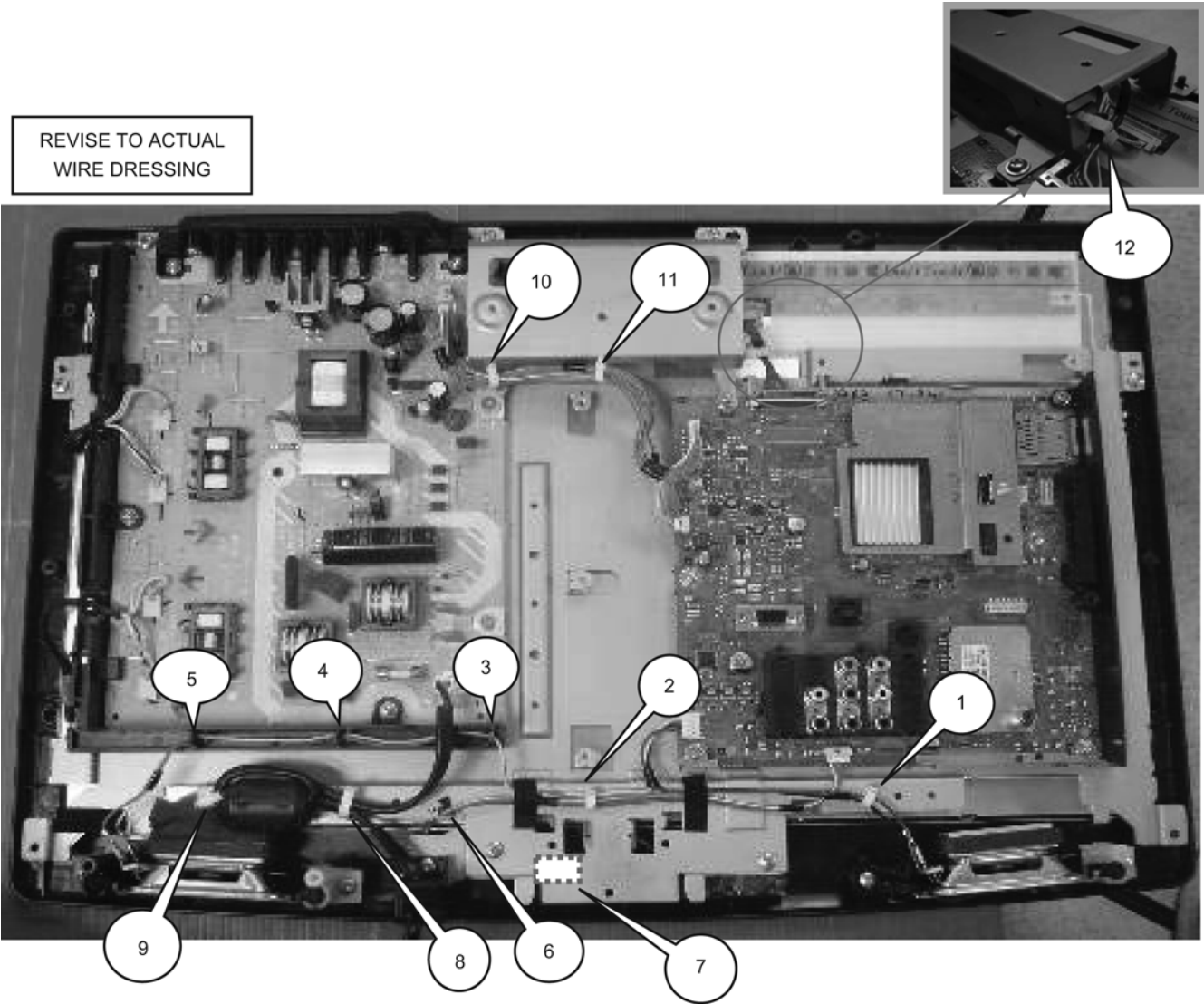


9.3. Block Diagram (2/2)



10 Wiring Connection Diagram

REVISE TO ACTUAL
WIRE DRESSING









Wire	Clamper											
	1	2	3	4	5	6	7	8	9	10	11	12
AC -								●	●			
A25 - SP	●	●	●	●	●							
A10 - V10		●				●	●					
A21 - T_CON												●
A03 - CN002										●	●	

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 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.

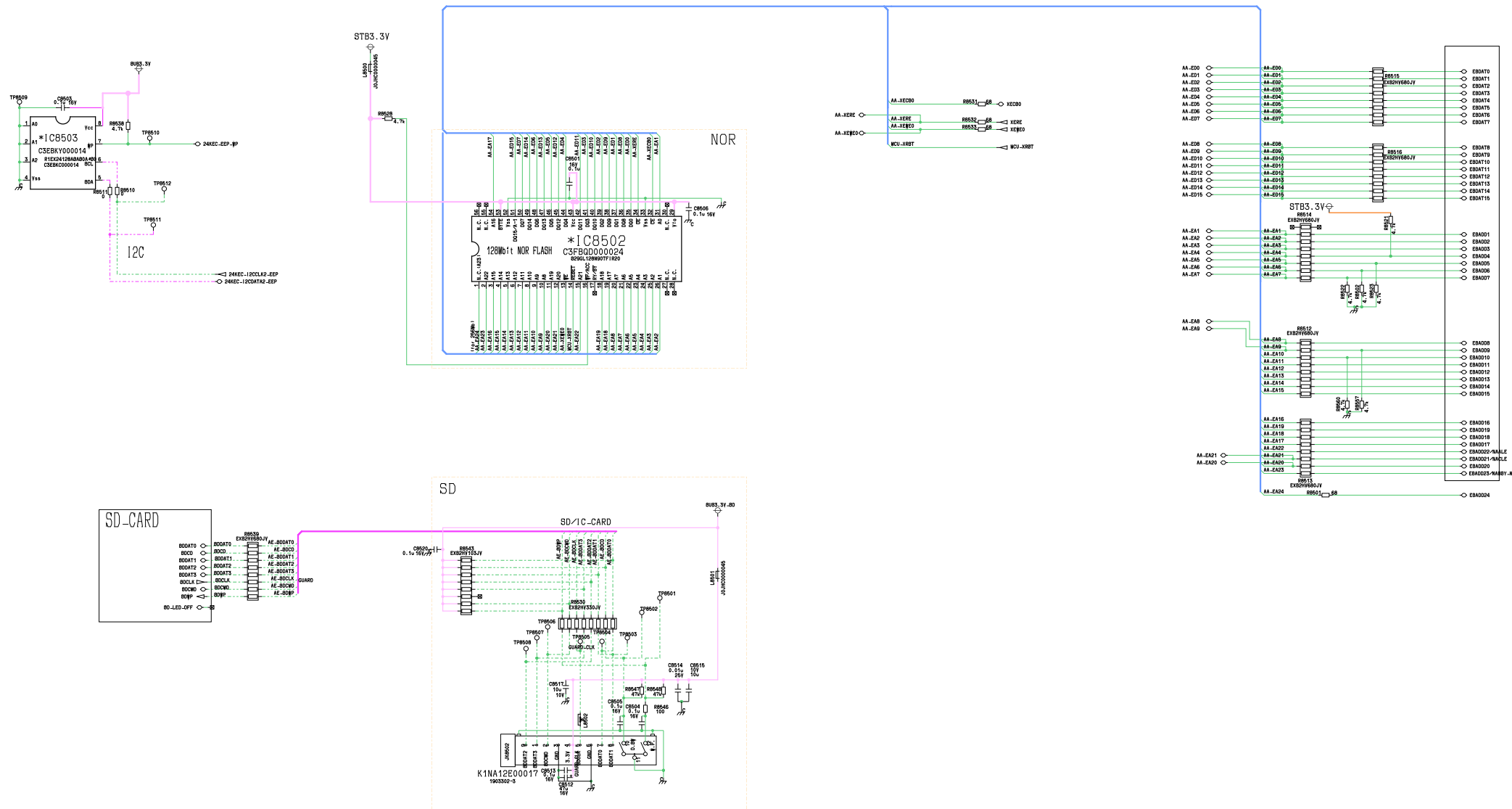
Remarks:

- 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 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.

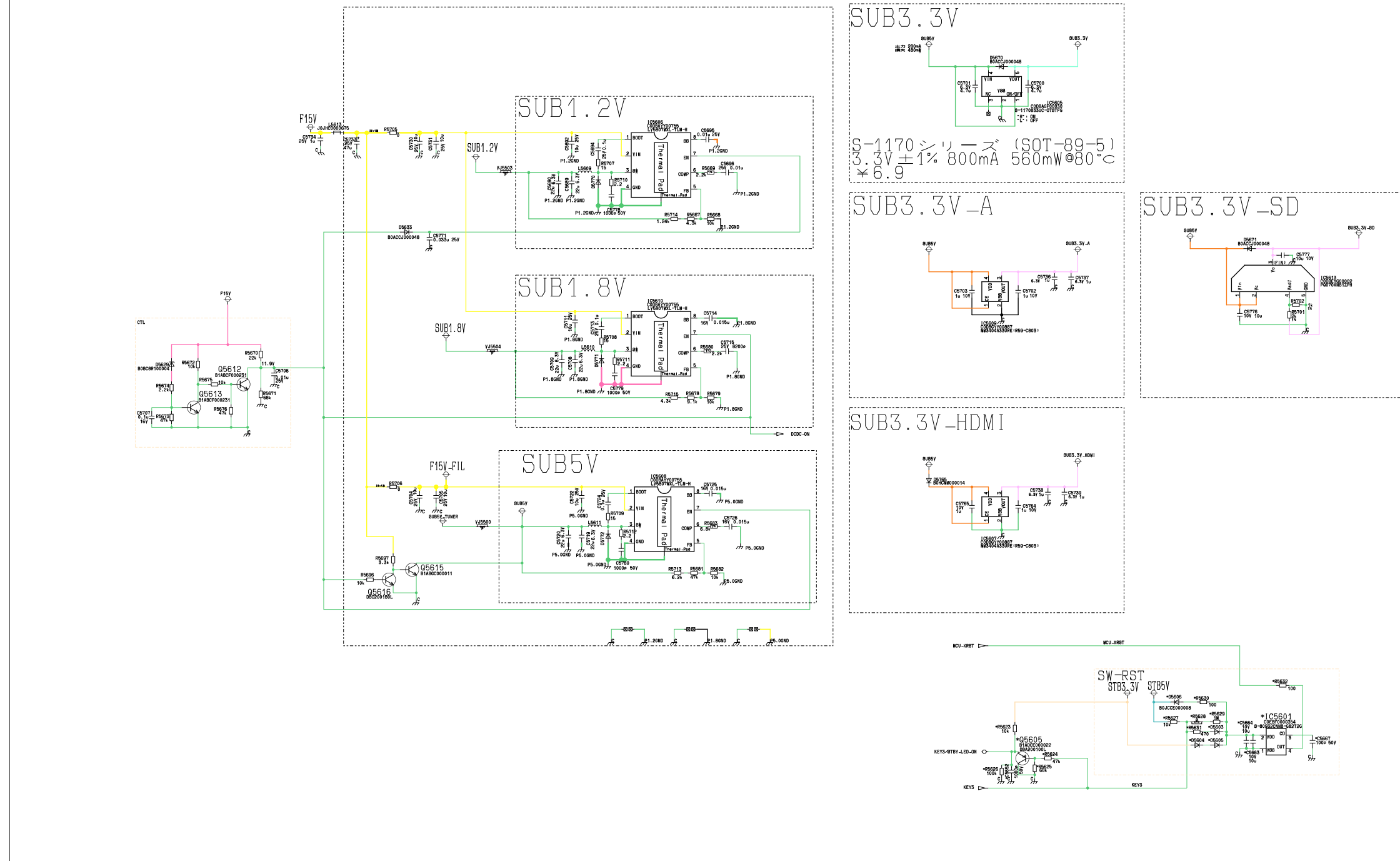


11.3. A-Board (2/11) Schematic Diagram

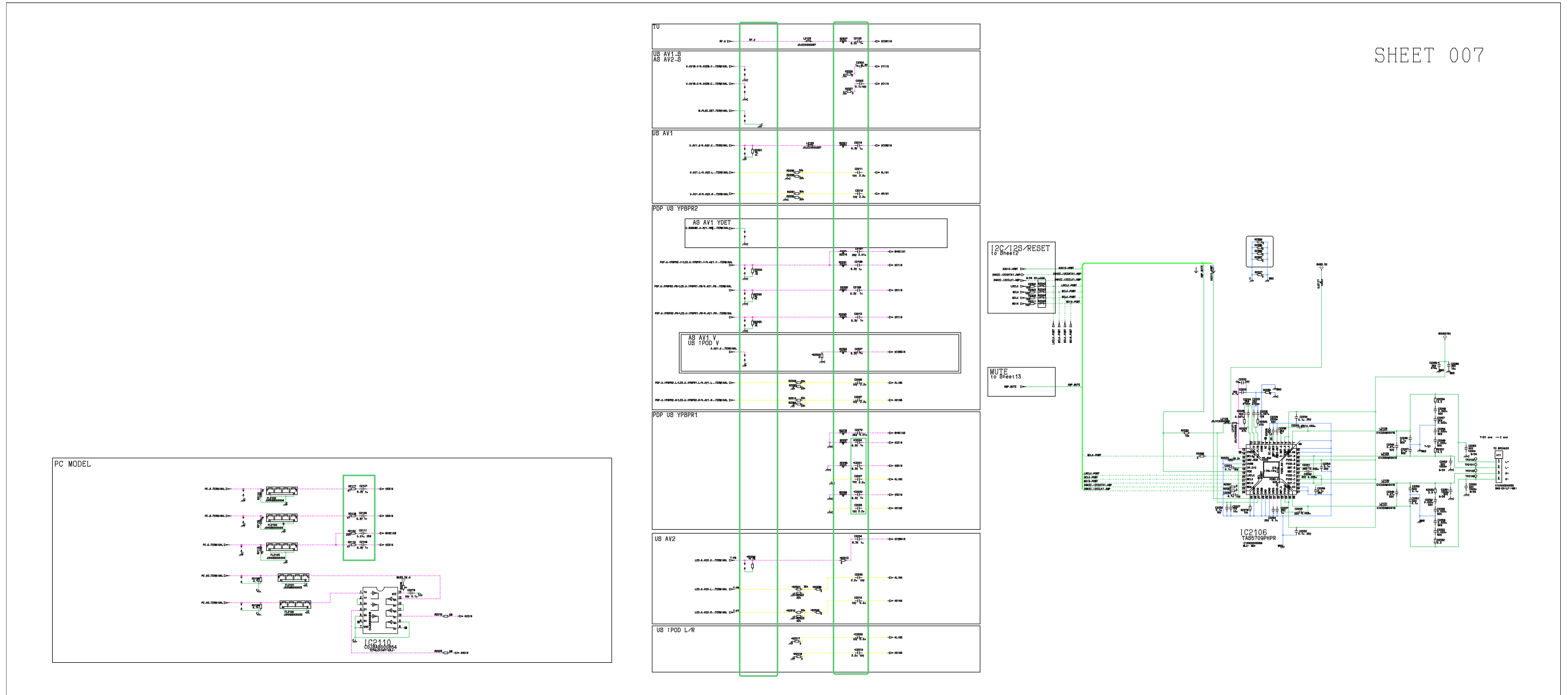
SHEET 003



SHEET 005



11.5. A-Board (4/11) Schematic Diagram





11.9. A-Board (8/11) Schematic Diagram

6

5

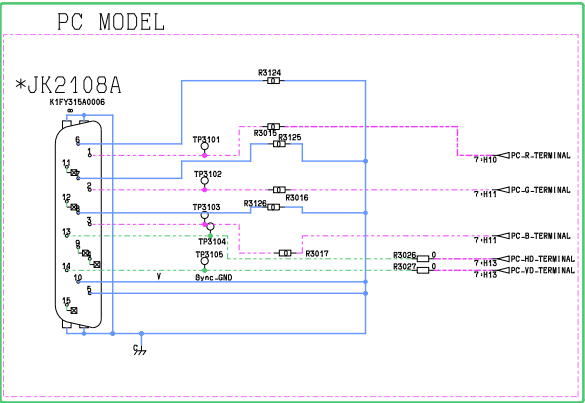
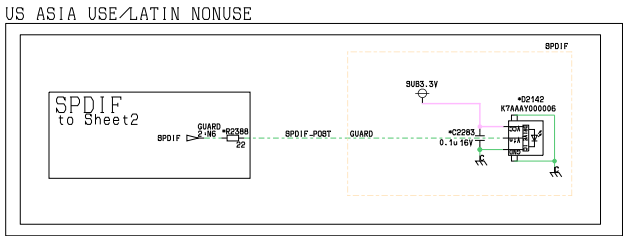
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3

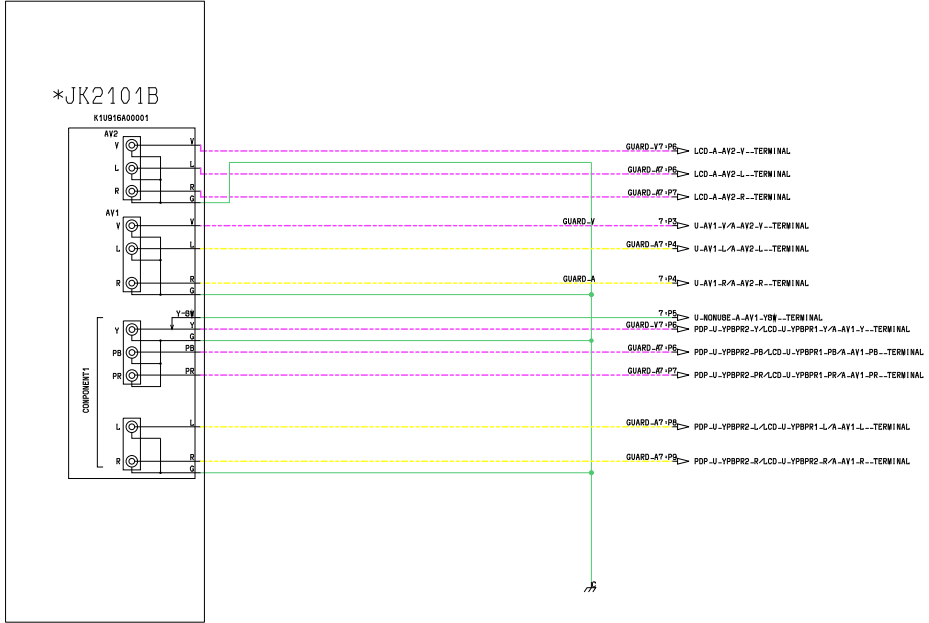
2

1

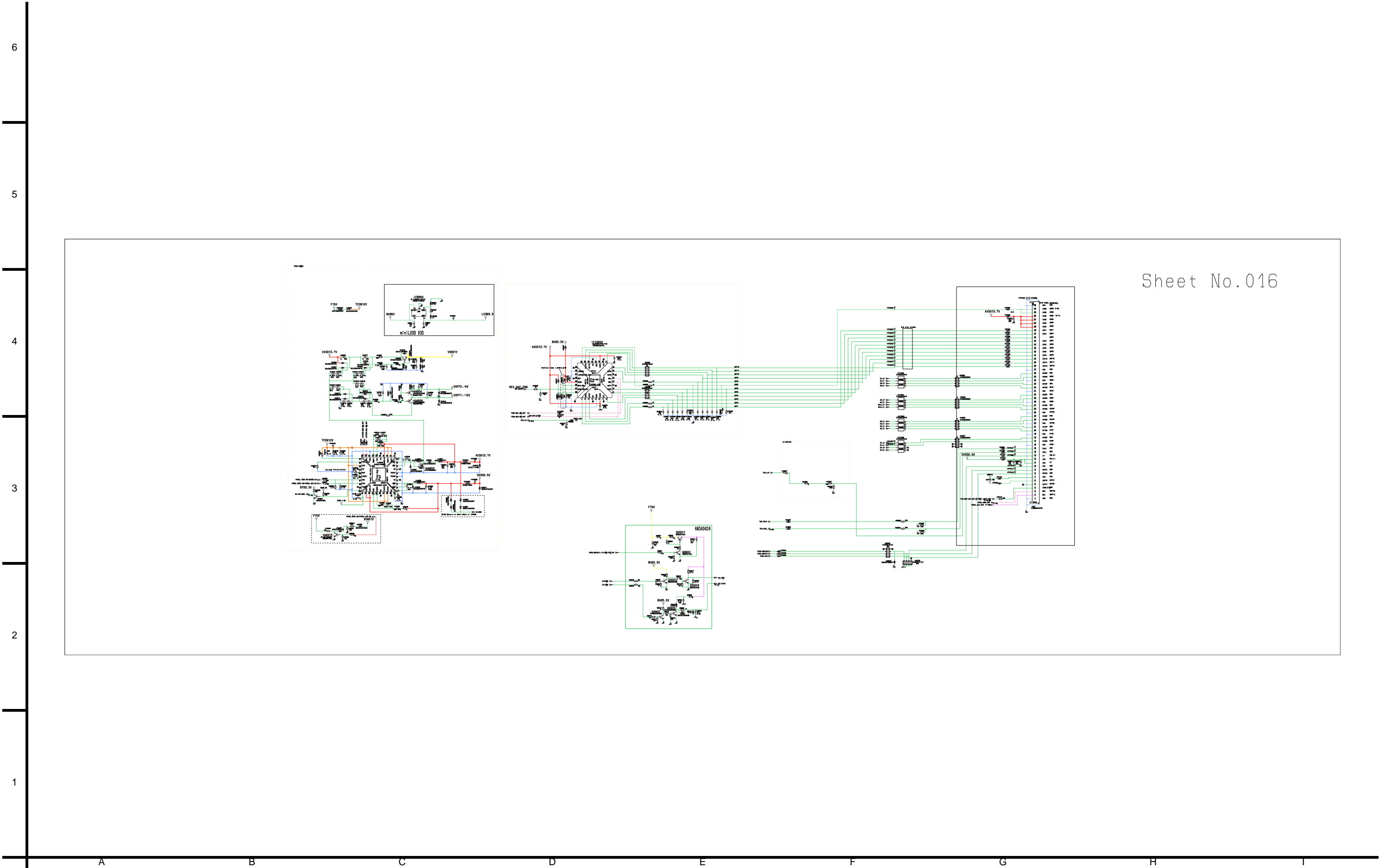
Sheet No.015



USA model (C22)



11.10. A-Board (9/11) Schematic Diagram



11.11. A-Board (10/11) Schematic Diagram

6

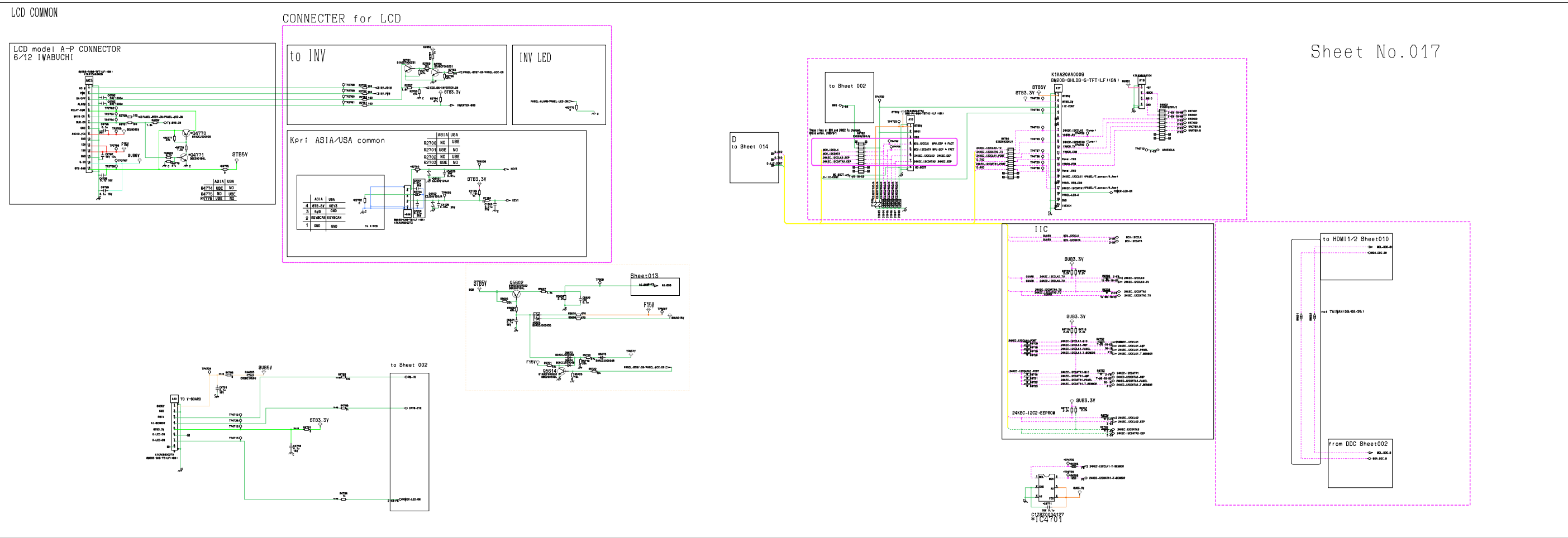
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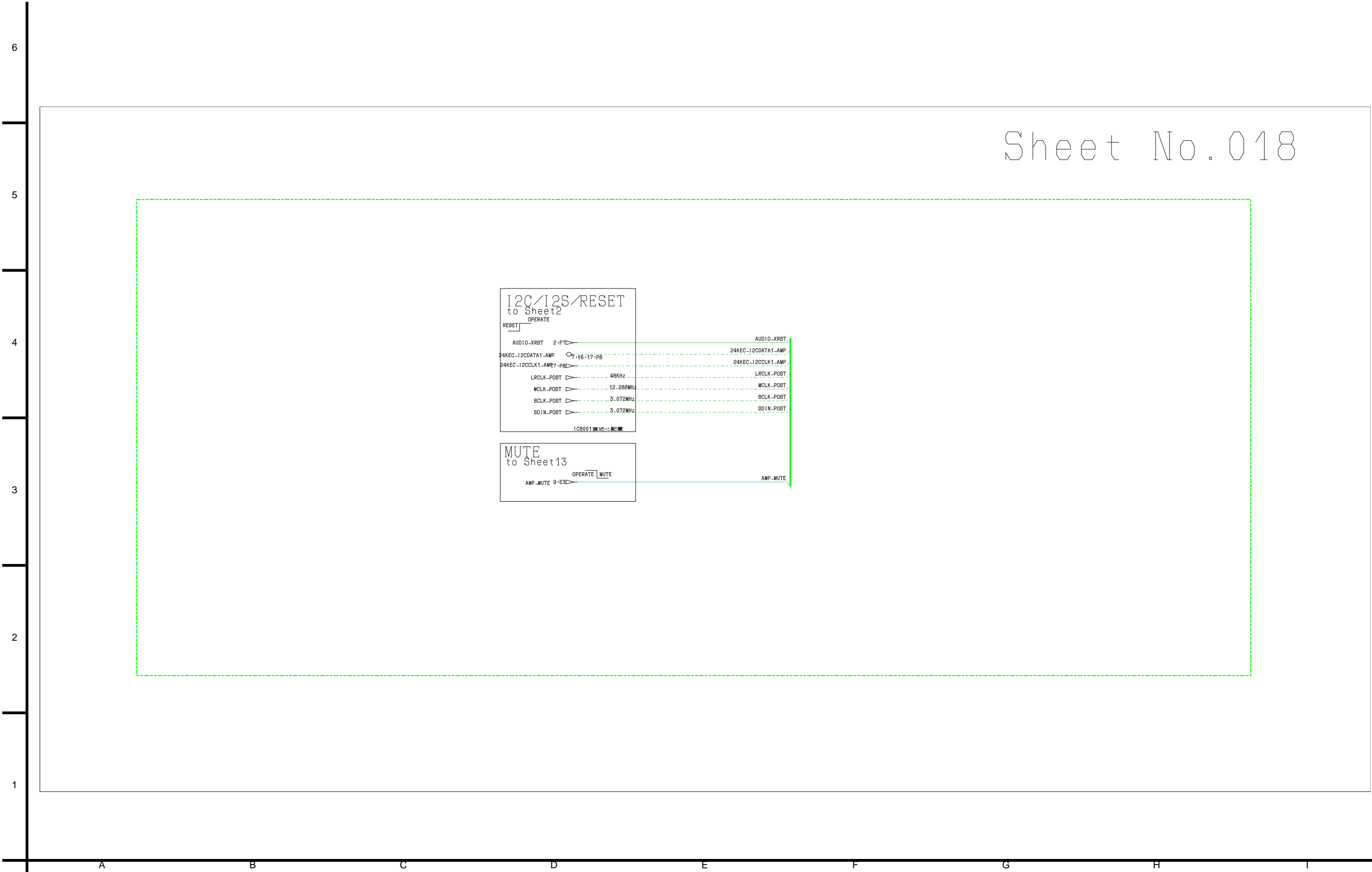
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2

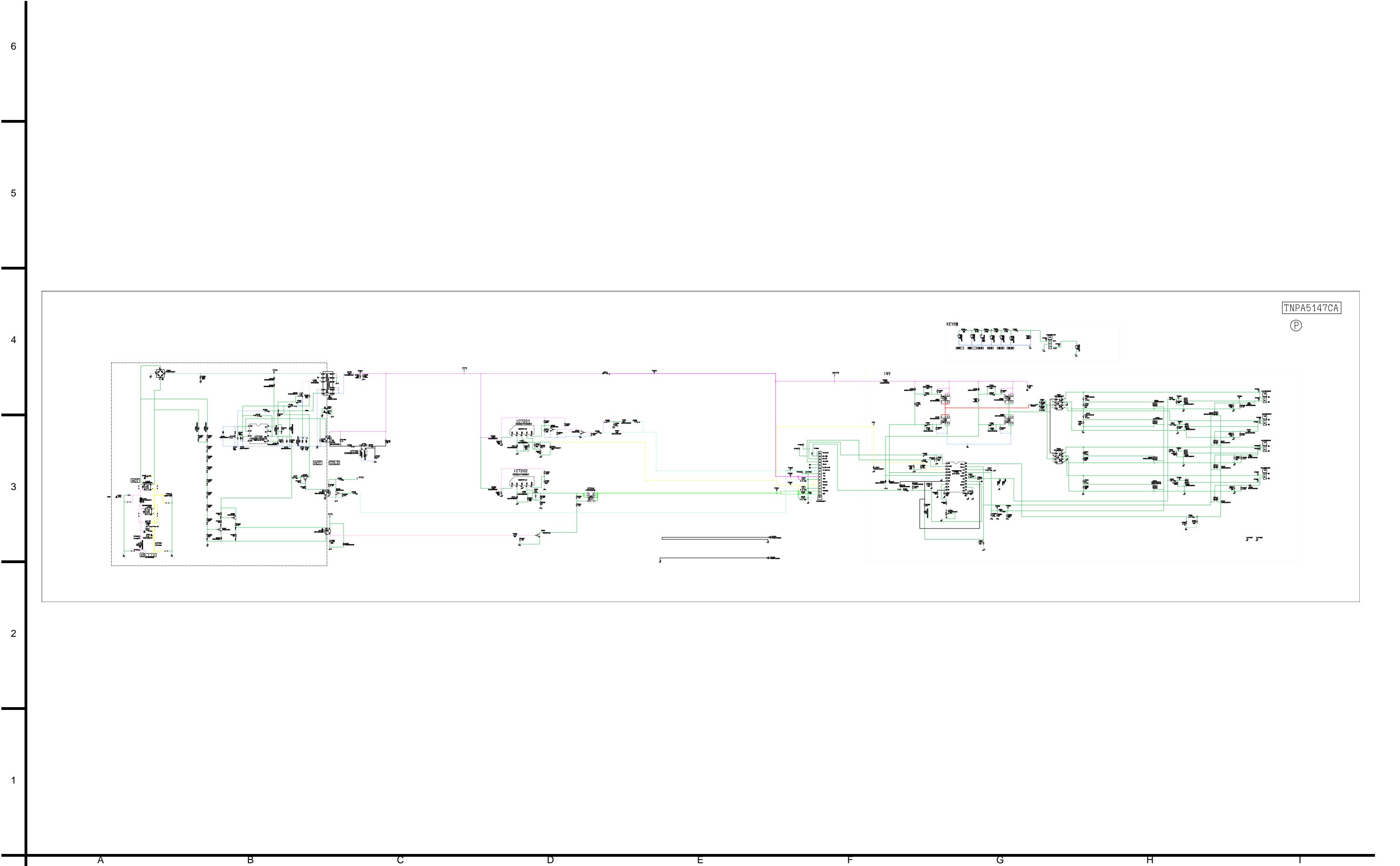
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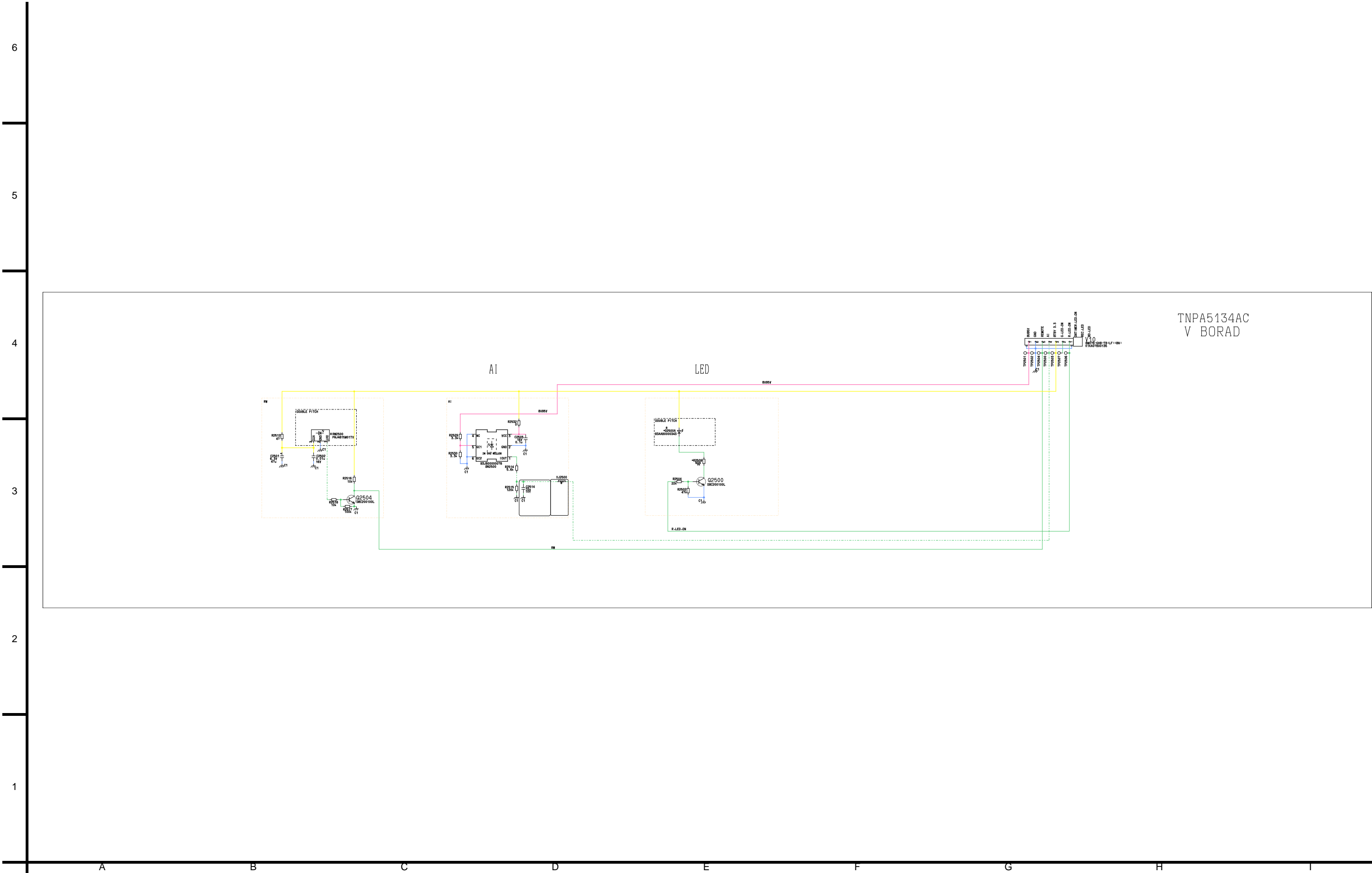
11.12. A-Board (11/11) Schematic Diagram



11.13. P-Board Schematic Diagram



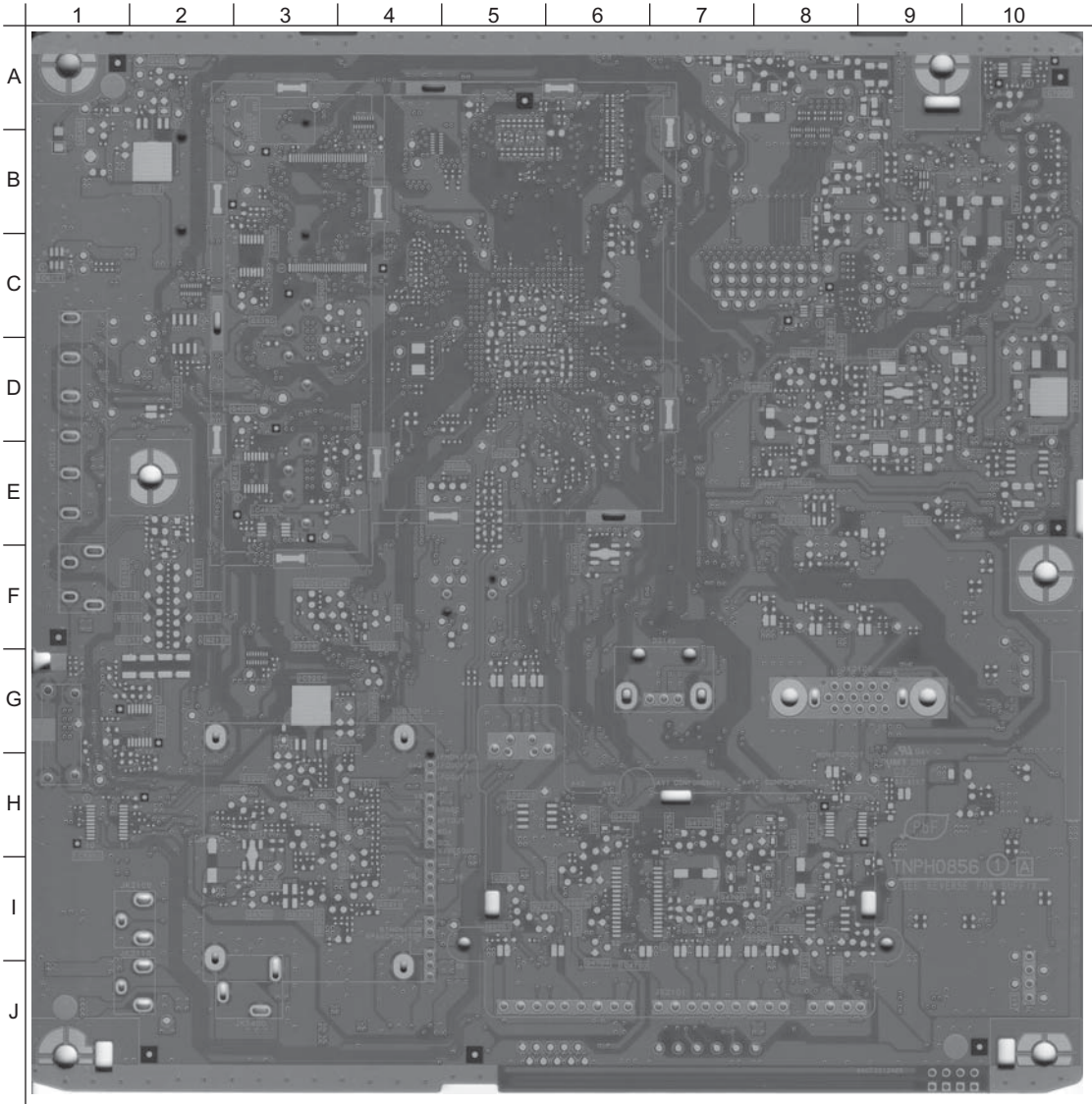
11.14. V-Board Schematic Diagram



12 Printed Circuit Board

12.1. A-Board

A-Board (A Side)
TNPH0856

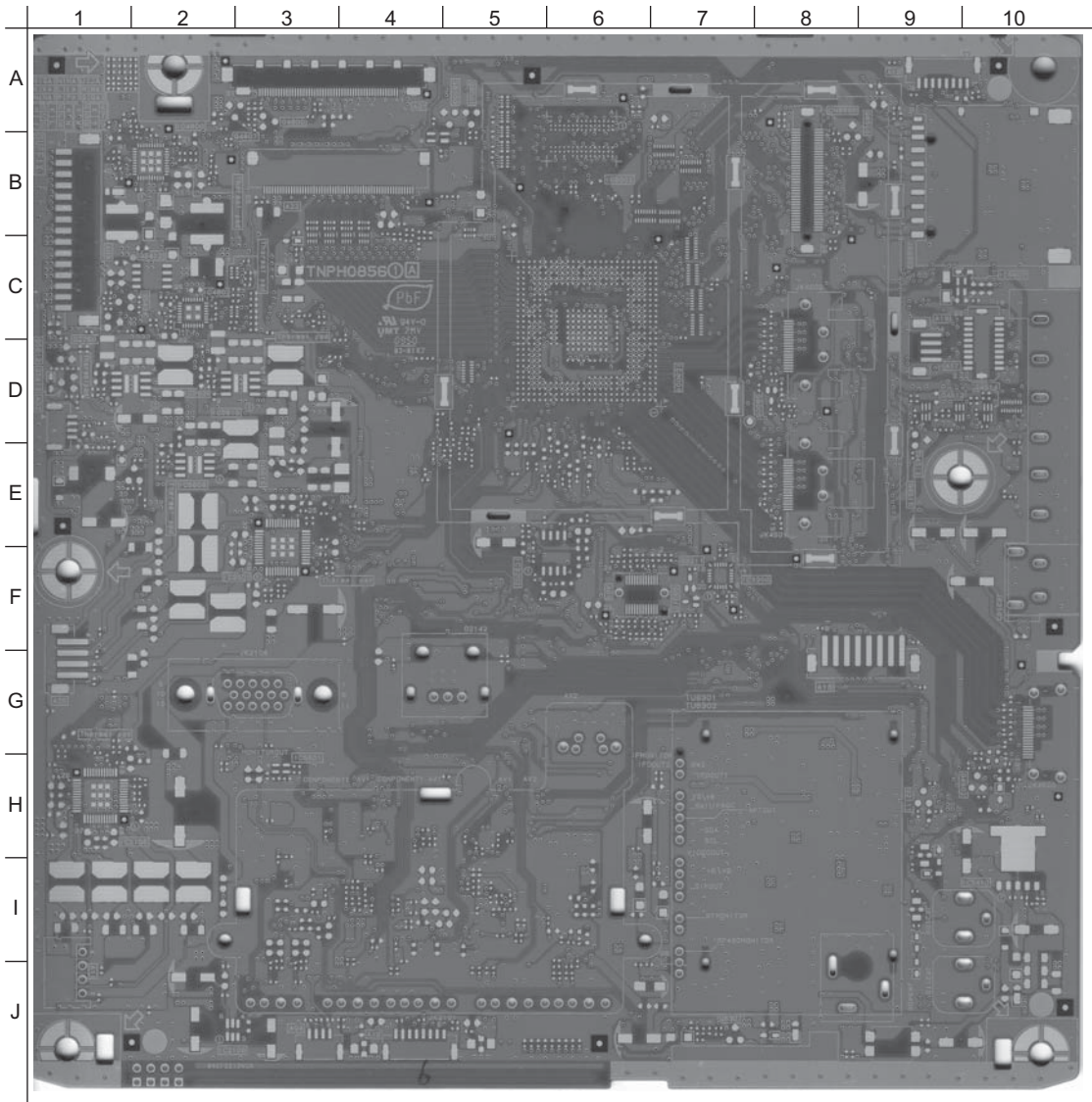


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC2105	E8	IC4601	E3	IC5613	B2	D2142	F7
IC2109	G2	IC4700	I6	IC7000	A10		
IC2110	H9	IC4701	C1	IC8004	D2		
IC2300	D10	IC4702	I8	IC8300	I3		
IC3201	G3	IC4803	B9	IC8301	D10		
IC3350	H1	IC4804	C8	IC8502	A3		
IC3390	C3	IC5605	D9	IC8503	H5		
IC4600	E3	IC5609	D9	IC8850	E6		

12.2. A-Board

A-Board (B Side)
TNPH0856

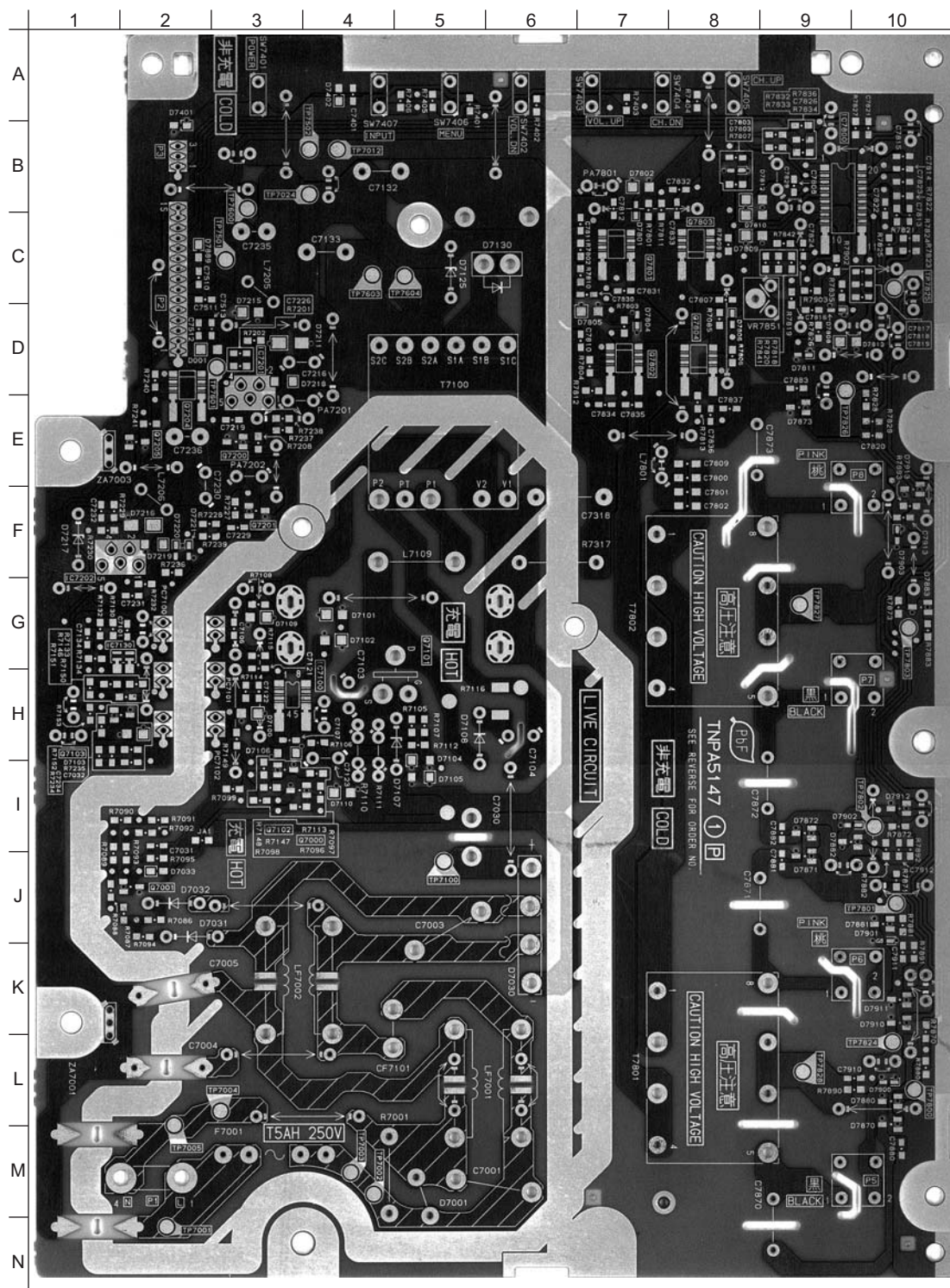


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC2106	H1	IC4800	B2	IC5607	C10	D2142	F5
IC2108	J3	IC4802	C2	IC5608	E2		
IC2501	F3	IC5410	I10	IC5610	D3		
IC3200	F7	IC5601	H3	IC8001	D6		
IC3202	F5	IC5606	D2	IC8002	B6		

12.3. P-Board

P-Board (A Side)
TNPA5147

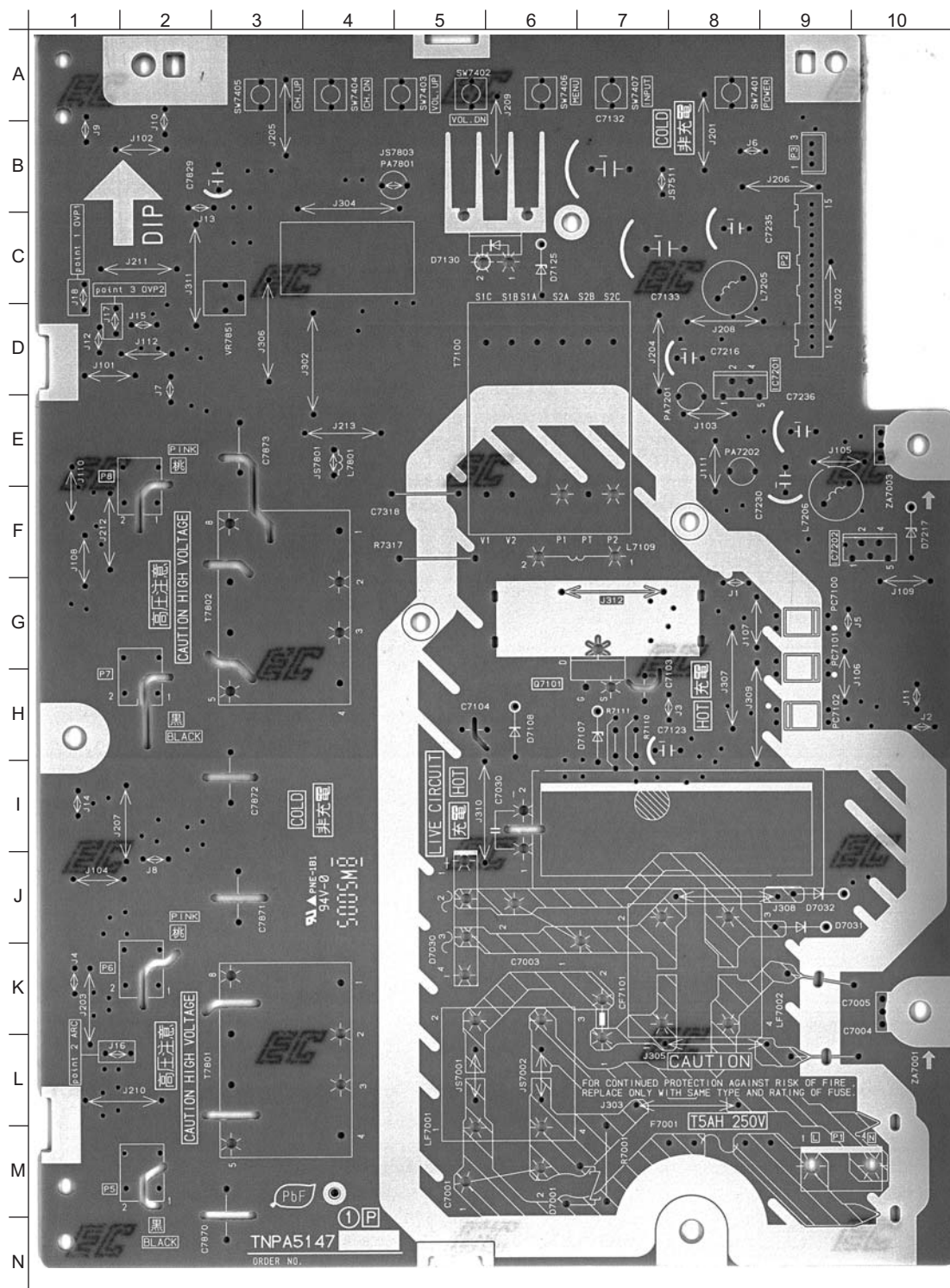


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC7100	G4	D001	D2	D7215	D3	D7812	B9
IC7130	G1	D7030	K6	D7216	F2	D7813	D9
IC7201	D3	D7031	J3	D7217	F1	D7870	M10
IC7202	F1	D7032	J3	D7218	D4	D7871	I9
IC7800	B9	D7033	J2	D7219	F2	D7872	I9
		D7100	H3	D7220	F2	D7873	D9
		D7101	G4	D7221	F3	D7880	L10
		D7102	G4	D7401	A2	D7881	K10
		D7103	I1	D7402	A4	D7882	I9
		D7104	H5	D7801	C7	D7883	F10
		D7105	H5	D7802	B7	D7889	C2
		D7106	H3	D7803	B8	D7900	L10
		D7107	I4	D7804	D7	D7901	K10
		D7108	H5	D7805	D6	D7902	I9
		D7109	G3	D7806	D8	D7903	F10
		D7110	I4	D7808	D9	D7910	L10
		D7125	C5	D7809	C8	D7911	K10
		D7130	C6	D7810	B8	D7912	I10
		D7211	D4	D7811	D9	D7913	E10

12.4. P-Board

P-Board (B Side)
TNPA5147

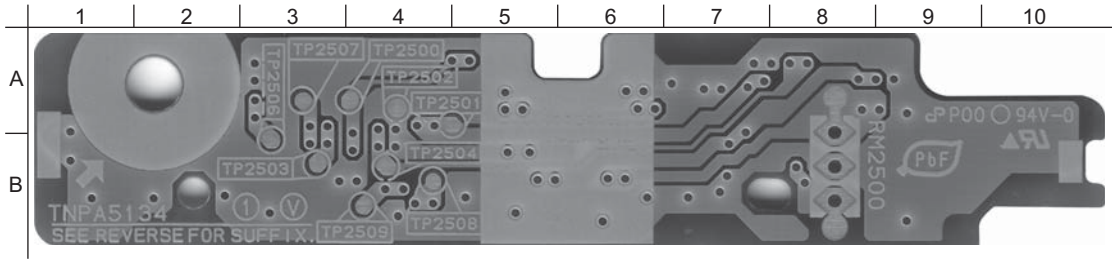


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC7201	D9	D7001	M6	D7032	J9	D7125	C6
IC7202	F9	D7030	K5	D7107	H7	D7130	C5
		D7031	J9	D7108	H6	D7217	H7

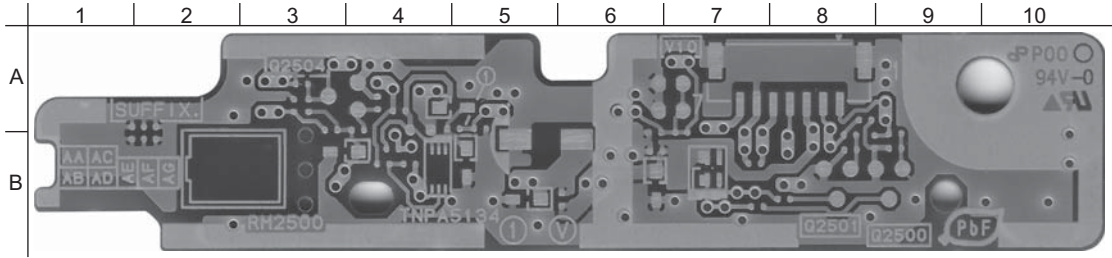
12.5. V-Board

V-Board (A Side)
TNPA5134



12.6. V-Board

V-Board (B Side)
TNPA5134



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

2. Capacitor

Example:

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
 Type Allowance

ECKF1H103ZF C 0.01UF, Z, 50V
 Type Allowance

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

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

13.2.2. Electrical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
	C1100	F1G1E1030005	C 0.01UF,K, 25V	
	C2103	F1H0J1050013	C 1UF,K, 6.3V	
	C2107	F1H0J1050013	C 1UF,K, 6.3V	
	C2108	F1H0J1050013	C 1UF,K, 6.3V	
	C2109	F1H0J1050013	C 1UF,K, 6.3V	
	C2111	F1G1E1030005	C 0.01UF,K, 25V	
	C2197	F1G1E1030005	C 0.01UF,K, 25V	
	C2198	F1H0J1050013	C 1UF,K, 6.3V	
	C2199	F1H0J1050013	C 1UF,K, 6.3V	
	C2200	F1H0J1050013	C 1UF,K, 6.3V	
	C2201	F1H0J1050013	C 1UF,K, 6.3V	
	C2202	F1H0J1050013	C 1UF,K, 6.3V	
	C2204	F1H0J1050013	C 1UF,K, 6.3V	
	C2207	F1H1A225A051	C 2.2UF,10V	
	C2208	F1H1A225A051	C 2.2UF,10V	
	C2209	F1H1A225A051	C 2.2UF,10V	
	C2210	F1H1A225A051	C 2.2UF,10V	
	C2211	F1H1A225A051	C 2.2UF,10V	
	C2212	F1H1A225A051	C 2.2UF,10V	
	C2213	F1H0J1050013	C 1UF,K, 6.3V	
	C2214	F1H0J1050013	C 1UF,K, 6.3V	
	C2220	F1G1C104A077	C 0.1UF, K, 16V	
	C2221	F1G1C104A077	C 0.1UF, K, 16V	
	C2222	F1J1A106A087	C 10UF, K, 10V	
	C2223	F1G1E472A123	C 4700PF, 25V	
	C2224	F1G1E472A123	C 4700PF, 25V	
	C2225	F1G1C473A081	C 0.047UF, K, 10V	
	C2226	F1G1C473A081	C 0.047UF, K, 10V	
	C2227	F1J1A106A087	C 10UF, K, 10V	
	C2229	F1G1H222A571	C 220PF,K, 50V	
	C2230	F1G1C104A077	C 0.1UF, K, 16V	
	C2232	F1H1E104A029	C 0.1UF, 25V	
	C2234	F1H1E104A029	C 0.1UF, 25V	
	C2237	F1J1E105A231	C 1UF, 25V	
	C2238	F1J1E105A231	C 1UF, 25V	
	C2240	F1H1E333A029	C 0.033UF, 25V	
	C2241	F1H1E333A029	C 0.033UF, 25V	
	C2242	F1H1E333A029	C 0.033UF, 25V	
	C2243	F1H1E333A029	C 0.033UF, 25V	
	C2244	F1J1H474A757	C 0.47UF, 50V	
	C2245	F1J1H474A757	C 0.47UF, 50V	
	C2246	F1J1H104A717	C 0.1UF, 50V	
	C2247	F1J1H104A717	C 0.1UF, 50V	
	C2248	F1H1H223A219	C 0.022UF, 50V	
	C2249	F1H1H223A219	C 0.022UF, 50V	
	C2250	F1J1H104A717	C 0.1UF, 50V	
	C2251	F1J1H104A717	C 0.1UF, 50V	
	C2252	F1H1H223A219	C 0.022UF, 50V	
	C2253	F1H1H223A219	C 0.022UF, 50V	
	C2254	F1H1E104A029	C 0.1UF, 25V	
	C2255	F1H1E104A029	C 0.1UF, 25V	
	C2256	F1H1H223A219	C 0.022UF, 50V	
	C2257	F1H1H223A219	C 0.022UF, 50V	
	C2258	F1H1H223A219	C 0.022UF, 50V	
	C2259	F1H1H223A219	C 0.022UF, 50V	
	C2260	F1G1H1020008	C 1000PF, 50V	
	C2261	F1G1H1020008	C 1000PF, 50V	
	C2262	F1G1H1020008	C 1000PF, 50V	
	C2263	F1G1H1020008	C 1000PF, 50V	
	C2264	F1H1E104A029	C 0.1UF, 25V	
	C2265	EEFEG1E471P	E 470UF, 25V	
	C2266	F1K1E106A136	C 10UF, 25V	
	C2269	F1J1A475A087	C 4.7UF, 10V	
	C2272	F1G1E1030005	C 0.01UF, 16V	
	C2279	F1G1C104A077	C 0.1UF, K, 16V	
	C2283	F1G1C104A077	C 0.1UF, K, 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C2296	F1H1A225A051	C 2.2UF,10V	
	C2297	F1H1A225A051	C 2.2UF,10V	
	C2303	F1G1C104A077	C 0.1UF, K, 16V	
	C2304	F1H0J1050013	C 1UF,K, 6.3V	
	C2305	F1J1E105A231	C 1UF, 25V	
	C2307	F1H0J1050013	C 1UF,K, 6.3V	
	C2309	F1H1A225A051	C 2.2UF,10V	
	C2310	F1H1A225A051	C 2.2UF,10V	
	C2501	F2G0J470A019	E 0.1UF, 16V	
	C2502	F1G1C103A116	C 0.0UF, 16V	
	C2505	F1H1C104A143	C 0.1UF,K, 16V	
	C2514	F1J1A106A087	C 10UF, 10V	
	C2700	F1G1E1030005	C 0.01UF, 25V	
	C2701	F1G1E1030005	C 0.01UF, 25V	
	C3200	F1G1C104A077	C 0.1UF, 16V	
	C3201	F1G1E1030005	C 0.01UF, 16V	
	C3203	F1J1A106A087	C 10UF, 10V	
	C3204	F1G1E1030005	C 0.01UF, 25V	
	C3205	F1J1E105A231	C 1UF, 25V	
	C3207	F1G1E1030005	C 0.01UF, 16V	
	C3210	F1G1H101A731	C 100PF, 50V	
	C3211	F1G1H330A565	C 33PF, 50V	
	C3212	F1J1A106A087	C 10UF, 10V	
	C3213	F1G1E1030005	C 0.01UF, 16V	
	C3214	F2G0J470A019	E 47UF, 6.3V	
	C3215	F1J1C475A170	C 4.7UF, 16V	
	C3216	F1J1A106A087	C 10UF, 10V	
	C3217	F1J1A106A087	C 10UF, 10V	
	C3218	F1G1H101A731	C 100PF, 50V	
	C3219	F1G1H330A565	C 33PF, 50V	
	C4125	F1G1E1030005	C 0.01UF, 25V	
	C4126	F1G1E1030005	C 0.01UF, 25V	
	C4250	F1H1H103A970	C 0.1UF, 50V	
	C4251	F1H1H103A970	C 0.1UF, 50V	
	C4252	EEHBC1C470P	E 47UF, 16V	
	C4539	F1H0J1050013	C 1UF,K, 6.3V	
	C4546	F1H0J1050013	C 1UF,K, 6.3V	
	C4549	F1H0J1050013	C 1UF,K, 6.3V	
	C4700	F1H0J1050013	C 1UF,K, 6.3V	
	C4704	F2H1A101A009	C 100UF, 10V	
	C4705	F1G1C104A077	C 1UF, 16V	
	C4706	F1H1A105A025	C 1UF, 10V	
	C4707	F1H1A105A025	C 1UF, 10V	
	C4718	F1G1C104A077	C 1UF, 16V	
	C4721	F1G1C104A077	C 1UF, 16V	
	C4771	F1G1C104A077	C 1UF, 16V	
	C4772	F1G1C104A077	C 1UF, 16V	
	C4779	F1J0J106A004	C 10UF, 6.3V	
	C4792	F1H1H102A831	C 1000PF, 50V	
	C4793	F1H1H102A831	C 1000PF, 50V	
	C4796	F1H1E104A029	C 0.1UF, 25V	
	C4797	F1K1C106A126	C 10UF, 16V	
	C4798	F1G1C104A077	C 1UF, 16V	
	C4799	F1G1C104A077	C 1UF, 16V	
	C5521	F1G1C104A077	C 1UF, 16V	
	C5522	F1G1C104A077	C 1UF, 16V	
	C5652	F1G1H1020008	C 1000PF, 50V	
	C5663	F1J1A106A087	C 10UF, 10V	
	C5664	F1J1A106A087	C 10UF, 10V	
	C5667	F1G1H101A731	C 100PF, 50V	
	C5689	F1K0J226A008	C 22UF, 6.3V	
	C5690	F1K0J226A008	C 22UF, 6.3V	
	C5692	F1K1E106A136	C 10UF, 25V	
	C5694	F1H1E104A029	C 0.1UF, 25V	
	C5695	F1G1E1030005	C 0.01UF, 16V	
	C5696	F1G1E1030005	C 0.01UF, 16V	
	C5700	F1H0J475A041	C 4.7UF, 6.3V	
	C5701	F1H0J475A041	C 4.7UF, 6.3V	
	C5702	F1H1A105A025	C 1UF, 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C5703	F1H1A105A025	C 1UF , 10V	
	C5704	F1K1E106A136	C 10UF , 25V	
	C5705	F1K1E106A136	C 10UF , 25V	
	C5706	F1G1E1030005	C 0.01UF , 16V	
	C5707	F1G1C104A077	C 0.1UF , 16V	
	C5708	F1K0J226A008	C 22UF , 6.3V	
	C5709	F1K0J226A008	C 22UF , 6.3V	
	C5711	F1K1E106A136	C 10UF , 25V	
	C5713	F1H1E104A029	C 0.1UF , 25V	
	C5714	F1G1C153A081	C 0.015UF , 16V	
	C5715	F1G1E822A123	C 8200PF , 25V	
	C5719	F1K0J226A008	C 22UF , 6.3V	
	C5720	F1K0J226A008	C 22UF , 6.3V	
	C5722	F1K1E106A136	C 10UF , 25V	
	C5724	F1H1E104A029	C 0.1UF , 25V	
	C5725	F1G1C153A081	C 0.015UF , 16V	
	C5726	F1G1C153A081	C 0.015UF , 16V	
	C5730	F1K1E106A136	C 10UF , 25V	
	C5731	F1K1E106A136	C 10UF , 25V	
	C5733	F2H1E470A007	C 47UF , 25V	
	C5734	F1J1E105A231	C 1UF , 25V	
	C5736	F1H0J1050013	C 1UF,K, 6.3V	
	C5737	F1H0J1050013	C 1UF,K, 6.3V	
	C5738	F1H0J1050013	C 1UF,K, 6.3V	
	C5739	F1H0J1050013	C 1UF,K, 6.3V	
	C5764	F1H1A105A025	C 1UF , 10V	
	C5765	F1H1A105A025	C 1UF , 10V	
	C5771	F1H1E333A029	C 0.033UF , 25V	
	C5776	F1J1A106A087	C 10UF , 10V	
	C5777	F1J1A106A087	C 10UF , 10V	
	C5778	F1G1H1020008	C 1000PF , 50V	
	C5779	F1G1H1020008	C 1000PF , 50V	
	C5780	F1G1H1020008	C 1000PF , 50V	
⚠	C7001	F0CAF224A021	F 0.22UF , 240V	
⚠	C7003	F0CAF224A021	F 0.22UF , 240V	
⚠	C7004	F1A2E471A003	C 470PF , 240V	
⚠	C7005	F1A2E471A003	C 470PF , 240V	
	C7030	F2A2W2010001	E 200UF , 450V	
	C7032	F1J1E2740001	C 0.27UF , 25V	
	C7103	F1B3D221A099	C 220PF , 2KV	
	C7106	F1J1H102A834	C 1000PF , 50V	
	C7107	F1J1E105A231	C 1UF , 25V	
	C7121	F1J1H101A836	C 10PF , 50V	
	C7122	F1J1H102A834	C 1000PF , 50V	
	C7123	F2A1H330A122	E 33UF , 50V	
	C7132	F2A1V1520016	C 1500UF , 35V	
	C7133	F2A1V1520016	C 1500UF , 35V	
	C7134	F1J1H103A834	C 0.01UF , 50V	
	C7216	F2A1V221A085	E 220UF , 35V	
	C7219	F1J1H104A838	C 0.1UF , 50V	
	C7226	F1J1H104A835	C 0.1UF , 50V	
	C7229	F1J1C225A197	C 2.2UF , 16V	
	C7230	F2A1V221A085	E 220UF , 35V	
	C7231	F1J1H104A838	C 0.1UF , 50V	
	C7232	F1J1C474A194	C 0.047UF , 16V	
	C7235	F2A1E681A100	E 680UF , 25V	
	C7236	F2A1E681A100	E 680UF , 25V	
⚠	C7318	F1A2E471A003	C 470PF , 240V	
	C7401	F1J1H102A834	C 1000PF , 50V	
	C7510	F1J1H104A835	C 0.1UF , 50V	
	C7511	F1J1H104A835	C 0.1UF , 50V	
	C7512	F1J1H104A835	C 0.1UF , 50V	
	C7513	F1J1H104A835	C 0.1UF , 50V	
	C7800	F1K1H225A118	C 2.2UF , 50V	
	C7801	F1K1H225A118	C 2.2UF , 50V	
	C7802	F1K1H225A118	C 2.2UF , 50V	
	C7803	F1J1H473A835	C 0.047UF , 50V	
	C7807	F1J1H473A835	C 0.047UF , 50V	
	C7808	F1J1C474A194	C 0.47UF , 16V	
	C7810	F1J1H105A449	C 1UF , 50V	
	C7813	F1J1H102A834	C 1000PF , 50V	
	C7815	F1J1C225A197	C 2.2UF , 16V	
	C7816	F1J1H103A834	C 0.1UF , 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7817	F1J1C224A194	C 0.22UF , 16V	
	C7819	F1J1C105A197	C 1UF , 16V	
	C7820	F1J1H103A834	C 0.1UF , 50V	
	C7821	F1J1H103A834	C 0.1UF , 50V	
	C7822	F1J1H103A834	C 0.1UF , 50V	
	C7823	F1J1H104A835	C 0.1UF , 50V	
	C7824	F1J1H471A834	C 470PF , 50V	
	C7826	F1J1H104A835	C 0.1UF , 50V	
	C7829	F2A1E101A089	E 100UF , 25V	
	C7870	F1B3J100A013	C 10PF , 6.3kV	
	C7871	F1B3J100A013	C 10PF , 6.3kV	
	C7872	F1B3J100A013	C 10PF , 6.3kV	
	C7873	F1B3J100A013	C 10PF , 6.3kV	
	C7880	F1J1H102A834	C 1000PF , 50V	
	C7881	F1J1H102A834	C 1000PF , 50V	
	C7882	F1J1H102A834	C 1000PF , 50V	
	C7883	F1J1H102A834	C 1000PF , 50V	
	C7910	F1J1H472A834	C 4700PF , 50V	
	C7911	F1J1H472A834	C 4700PF , 50V	
	C7912	F1J1H472A834	C 4700PF , 50V	
	C7913	F1J1H472A834	C 4700PF , 50V	
	C8001	F1H0J1050013	C 1UF , 6.3V	
	C8002	F1H0J1050013	C 1UF , 6.3V	
	C8003	F1G1C104A077	C 0.1UF , 16V	
	C8004	F1G1C104A077	C 0.1UF , 16V	
	C8005	F1G1C104A077	C 0.1UF , 16V	
	C8006	F1G1C104A077	C 0.1UF , 16V	
	C8007	F1G1H6R0A732	C 6PF , 50V	
	C8008	F1G1H7R0A732	C 7P , 50V	
	C8009	F1J1A475A087	C 4.7UF , 10V	
	C8011	F1G1C104A077	C 0.1UF , 16V	
	C8012	F1G1C104A077	C 0.1UF , 16V	
	C8013	F1G1C104A077	C 0.1UF , 16V	
	C8014	F1G1C104A077	C 0.1UF , 16V	
	C8015	F1G1C151A117	C 150PF , 16V	
	C8016	F1G1C104A077	C 0.1UF , 16V	
	C8017	F1G1C104A077	C 0.1UF , 16V	
	C8018	F1G1C104A077	C 0.1UF , 16V	
	C8019	F1G1C104A077	C 0.1UF , 16V	
	C8020	F1G1C104A077	C 0.1UF , 16V	
	C8021	F1G1C104A077	C 0.1UF , 16V	
	C8022	F1G1C103A116	C 1000PF , 50V	
	C8023	F1G1H5R0A564	C 5PF , 50V	
	C8024	F1G1E1030005	C 0.01UF , 16V	
	C8025	F1G1C5R0A118	C 5PF , 16V	
	C8026	F1G1E1030005	C 0.01UF , 16V	
	C8027	F1G1C104A077	C 0.1UF , 16V	
	C8028	F1G1C104A077	C 0.1UF , 16V	
	C8029	F1G1E153A103	C 0.015UF , 16V	
	C8030	F1J1A106A087	C 10UF , 10V	
	C8033	F1J1A106A087	C 10UF , 10V	
	C8034	F1G1C104A077	C 0.1UF , 16V	
	C8035	F1J1A106A087	C 10UF , 10V	
	C8036	F1G1C104A077	C 0.1UF , 16V	
	C8037	F1G1C104A077	C 0.1UF , 16V	
	C8038	F1G1C104A077	C 0.1UF , 16V	
	C8039	F1J1A106A087	C 10UF , 10V	
	C8040	F1G1C104A077	C 0.1UF , 16V	
	C8041	F1J1A106A087	C 10UF , 10V	
	C8042	F1G1C104A077	C 0.1UF , 16V	
	C8043	F1G1A105A047	C 1000PF , 50V	
	C8044	F1G1A105A047	C 1000PF , 50V	
	C8045	F1G1A105A047	C 1000PF , 50V	
	C8046	F1J0G2260001	C 1UF , 6.3V	
	C8047	F1G1C104A077	C 0.1UF , 16V	
	C8048	F1G1H1020008	C 1000PF , 50V	
	C8049	F1H0J1050013	C 1UF , 6.3V	
	C8050	F1G1C104A077	C 0.1UF , 16V	
	C8051	F1J1A106A087	C 10UF , 10V	
	C8053	F1G1C104A077	C 0.1UF , 16V	
	C8054	F1G1C104A077	C 0.1UF , 16V	
	C8056	F1G1C104A077	C 0.1UF , 16V	
	C8058	F1J1A106A087	C 10UF , 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8059	FlH0J1050013	C 1UF , 6.3V	
	C8060	FlG1C104A077	C 0.1UF , 16V	
	C8061	FlG1H1020008	C 1000PF , 50V	
	C8062	FlG1C104A077	C 0.1UF , 16V	
	C8063	FlG1H1020008	C 1000PF , 50V	
	C8064	FlH0J1050013	C 1UF , 6.3V	
	C8065	FlG1C104A077	C 0.1UF , 16V	
	C8067	FlH0J1050013	C 1UF , 6.3V	
	C8068	FlH0J1050013	C 1UF , 6.3V	
	C8069	FlG1C104A077	C 0.1UF , 16V	
	C8070	FlG1H1020008	C 1000PF , 50V	
	C8071	FlG1C104A077	C 0.1UF , 16V	
	C8073	FlG1C104A077	C 0.1UF , 16V	
	C8074	FlG1H1020008	C 1000PF , 50V	
	C8075	FlG1C104A077	C 0.1UF , 16V	
	C8078	FlH0J1050013	C 1UF , 6.3V	
	C8079	FlH0J1050013	C 1UF , 6.3V	
	C8080	FlH0J1050013	C 1UF , 6.3V	
	C8081	FlH0J1050013	C 1UF , 6.3V	
	C8082	FlJ1A106A087	C 10UF , 10V	
	C8097	FlJ1A106A087	C 10UF , 10V	
	C8101	FlG1C104A077	C 0.1UF , 16V	
	C8102	FlG1H5R0A564	C 5PF , 50V	
	C8104	FlG1H1020008	C 1000PF , 50V	
	C8105	FlG1H1020008	C 1000PF , 50V	
	C8110	FlG1C104A077	C 0.1UF , 16V	
	C8111	FlJ1A106A087	C 10UF , 10V	
	C8112	FlG1H1020008	C 1000PF , 50V	
	C8113	FlH0J1050013	C 1UF , 6.3V	
	C8116	FlG1C104A077	C 0.1UF , 16V	
	C8120	FlG1C104A077	C 0.1UF , 16V	
	C8121	FlG1H1020008	C 1000PF , 50V	
	C8127	FlG1C104A077	C 0.1UF , 16V	
	C8130	FlG1C104A077	C 0.1UF , 16V	
	C8131	FlG1H1020008	C 1000PF , 50V	
	C8132	FlH0J1050013	C 1UF , 6.3V	
	C8133	FlG1H1020008	C 1000PF , 50V	
	C8136	FlG1C104A077	C 0.1UF , 16V	
	C8139	FlG1C104A077	C 0.1UF , 16V	
	C8140	FlG1H1020008	C 1000PF , 50V	
	C8141	FlG1C104A077	C 0.1UF , 16V	
	C8143	FlG1A105A047	C 1UF , 10V	
	C8144	FlG1A105A047	C 1UF , 10V	
	C8145	FlG1C104A077	C 0.1UF , 16V	
	C8146	FlG1H1020008	C 1000PF , 50V	
	C8147	FlG1C104A077	C 0.1UF , 16V	
	C8148	FlG1H1020008	C 1000PF , 50V	
	C8302	FlG1C104A077	C 0.1UF , 16V	
	C8303	FlG1H1020008	C 1000PF , 50V	
	C8304	FlH0J1050013	C 1UF , 6.3V	
	C8305	FlG1H221A541	C 220PF , 50V	
	C8306	FlG1H152A571	C 1500PF , 50V	
	C8307	FlG1H222A571	C 1500PF , 50V	
	C8308	FlG1C104A077	C 0.1UF , 16V	
	C8312	FlG1H181A541	C 220PF , 50V	
	C8313	FlG1C104A077	C 0.1UF , 16V	
	C8314	FlG1C104A077	C 0.1UF , 16V	
	C8315	FlG1H1020008	C 1000PF , 50V	
	C8324	EEEB0J221UP	C 220UF , 6.3V	
	C8328	FlG1C104A077	C 0.1UF , 16V	
	C8331	FlG1H330A565	C 33PF , 50V	
	C8332	FlG1H330A565	C 33PF , 50V	
	C8333	FlG1H151A731	C 150PF , 50V	
	C8334	FlG1H221A541	C 220PF , 50V	
	C8335	FlG1H221A541	C 220PF , 50V	
	C8336	FlG1H390A731	C 39PF , 50V	
	C8337	FlG1H121A731	C 120PF , 50V	
	C8338	FlG1H121A731	C 120PF , 50V	
	C8339	FlG1H680A731	C 68PF , 50V	
	C8340	FlG1H1020008	C 1000PF , 50V	
	C8341	FlG1H1020008	C 1000PF , 50V	
	C8342	FlG1C104A077	C 0.1UF , 16V	
	C8343	FlG1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8349	FlG1H1020008	C 1000PF , 50V	
	C8350	FlG1C104A077	C 0.1UF , 16V	
	C8351	FlG1H1020008	C 1000PF , 50V	
	C8352	FlG1C104A077	C 0.1UF , 16V	
	C8353	FlH0J1050013	C 1UF , 6.3V	
	C8354	FlH0J1050013	C 1UF , 6.3V	
	C8355	FlH0J1050013	C 1UF , 6.3V	
	C8357	FlK1E106A136	C 10UF , 25V	
	C8358	FlG1E1030005	C 0.01UF,K, 25V	
	C8359	FlH1E104A029	C 0.1UF , 25V	
	C8360	F2H1A101A009	C 1000PF , 10V	
	C8361	FlH1H223A219	C 0.022UF , 50V	
	C8363	FlH1H472A970	C 4700PF , 50V	
	C8370	FlG1C104A077	C 0.1UF , 16V	
	C8501	FlG1C104A077	C 0.1UF , 16V	
	C8503	FlG1C104A077	C 0.1UF , 16V	
	C8504	FlG1C104A077	C 0.1UF , 16V	
	C8505	FlG1C104A077	C 0.1UF , 16V	
	C8506	FlG1C104A077	C 0.1UF , 16V	
	C8512	EEEB1C470P	E 47UF , 16V	
	C8513	FlG1C104A077	C 0.1UF , 16V	
	C8514	FlG1E1030005	C 0.01UF , 16V	
	C8515	FlJ1A106A087	C 10UF , 10V	
	C8517	FlJ1A106A087	C 10UF , 10V	
	C8519	FlH0J1050013	C 1UF , 6.3V	
	C8520	FlG1C104A077	C 0.1UF , 16V	
	C8851	FlH1A105A025	C 1UF , 10V	
	C8852	FlH1A105A025	C 1UF , 10V	
	C9900	FlJ1C475A170	C 4.7UF , 16V	
	C9903	FlG1C104A077	C 0.1UF , 16V	
		DIODES		
	D1002	EZJZ0V120JA	VARISTOR	
	D1003	EZJZ0V120JA	VARISTOR	
	D1004	EZAEG2A50AX	FILTER	
	D1005	EZAEG2A50AX	FILTER	
	D1006	EZAEG2A50AX	FILTER	
	D1007	EZAEG2A50AX	FILTER	
	D1008	EZAEG2A50AX	FILTER	
	D2142	K7AAAY000006	DIODE	
	D3201	B0ACCJ0000048	DIODE	
	D4101	EZJZ0V120JA	VARISTOR	
	D4102	EZJZ0V120JA	VARISTOR	
	D4505	DZ2J056M0L	DIODE	
	D4506	EZAEG2A50AX	FILTER	
	D4508	EZAEG2A50AX	FILTER	
	D4703	B0JCME0000076	DIODE	
	D4704	B0ACCJ0000048	DIODE	
	D5600	B0ADEJ0000035	DIODE	
	D5603	B0ACCJ0000048	DIODE	
	D5604	B0ACCJ0000048	DIODE	
	D5605	B0ACCJ0000048	DIODE	
	D5606	B0JCCE0000008	DIODE	
	D5629	B0BC8R1000004	DIODE	
	D5633	B0ACCJ0000048	DIODE	
	D5670	B0ACCJ0000048	DIODE	
	D5671	B0ACCJ0000048	DIODE	
	D5765	B0HCM00000014	DIODE	
	D5770	B0JCPG0000030	DIODE	
	D5771	B0JCPG0000030	DIODE	
	D5772	B0JCPG0000030	DIODE	
	⚠ D7001	D4EAC6210002	VARISTOR	
	D7030	B0EBNT0000007	DIODE	
	D7031	AU02A	DIODE	
	D7032	AU02A	DIODE	
	D7033	DZ2J068M0L	DIODE	
	D7100	B0BC01400017	DIODE	
	D7101	B0BC03900015	DIODE	
	D7102	B0BC03900015	DIODE	
	D7103	B0BC02500002	DIODE	
	D7104	B0ECKM0000048	DIODE	
	D7105	B0ECKM0000048	DIODE	
	D7106	B0ECKM0000048	DIODE	
	D7107	B0BA010000070	DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7109	B0BC01400017	DIODE	
	D7110	B0BC03900015	DIODE	
	D7130	B0HESM000001	DIODE	
	D7211	B0JCPG000005	DIODE	
	D7215	B0BC01400017	DIODE	
	D7216	B0JCPG000005	DIODE	
	D7220	B0ACCJ000048	DIODE	
	D7221	B0ACCJ000048	DIODE	
	D7801	B0ACCJ000048	DIODE	
	D7802	B0BC01400017	DIODE	
	D7803	B0ACCJ000048	DIODE	
	D7804	B0ACCJ000048	DIODE	
	D7805	B0BC01400017	DIODE	
	D7806	B0ACCJ000048	DIODE	
	D7808	B0ACCJ000048	DIODE	
	D7809	B0BC01400017	DIODE	
	D7810	B0BC01400017	DIODE	
	D7811	B0ACCJ000048	DIODE	
	D7812	B0BC01400017	DIODE	
	D7813	B0BC6R600005	DIODE	
	D7870	B0ACDJ000014	DIODE	
	D7871	B0ACDJ000014	DIODE	
	D7872	B0ACDJ000014	DIODE	
	D7873	B0ACDJ000014	DIODE	
	D7880	B0ACDJ000014	DIODE	
	D7881	B0ACDJ000014	DIODE	
	D7882	B0ACDJ000014	DIODE	
	D7883	B0ACDJ000014	DIODE	
	D7900	B0ACCJ000048	DIODE	
	D7901	B0ACCJ000048	DIODE	
	D7902	B0ACCJ000048	DIODE	
	D7903	B0ACCJ000048	DIODE	
	D7910	B0ACDJ000014	DIODE	
	D7911	B0ACDJ000014	DIODE	
	D7912	B0ACDJ000014	DIODE	
	D7913	B0ACDJ000014	DIODE	
	D8300	B0ACCJ000048	DIODE	
	D8301	B0JCMD000010	DIODE	
	D8302	DZ2J068M0L	DIODE	
	D8303	B0BC17000001	DIODE	
	D8304	B0BC17000001	DIODE	
		INTEGRATED CIRCUITS		
	IC2106	C1AB00003069	IC	
	IC2110	C0JBAB000854	IC	
	IC3200	MFI341S2164	IC	
	IC3201	C0DBEYY00016	IC	
	IC3202	C0ABBB000230	IC	
	IC4700	C1ZBZ0004161	IC	
	IC4701	C1ZBZ0004127	IC	
	IC5601	C0EBF0000354	IC, RESET	
	IC5605	C0DBAGF00030	IC	
	IC5606	C0DBAYY00755	IC	
	IC5607	C0DBGYY00887	IC	
	IC5608	C0DBAYY00755	IC	
	IC5609	C0DBGYY00887	IC	
	IC5610	C0DBAYY00755	IC	
	IC5613	C0DBEYG00002	IC REGULATOR	
	IC7100	C0DBBY000010	IC	
	IC7130	C0DBZMC00006	IC	
	IC7201	C0DAAYY00051	IC	
	IC7202	C0DAAYY00051	IC	
	IC7800	C0ZBZ00001729	IC	
	IC8001	C1AB00003249	IC	
	IC8002	C3ABSY000043	IC	
	IC8004	TVRR396	ROM IC (C3EBGY000026)	
	IC8301	C0DBAYY00462	IC	
	IC8502	TVRR300AK	ROM IC (C3FBQD000024)	
	IC8503	TVRR397AA	ROM IC (C3EBKY000014)	
	IC8850	C0DBGYY00203	IC	
		COILS		
	L2123	J0JCC0000287	COIL	
	L2125	J0JCC0000287	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L2126	J0JYC0000068	COIL	
	L2127	J0JYC0000068	COIL	
	L2128	G1C330MA0416	INDUCTOR	
	L2129	G1C330MA0416	INDUCTOR	
	L2130	G1C330MA0416	INDUCTOR	
	L2131	G1C330MA0416	INDUCTOR	
	L3201	J0JHC0000045	COIL	
	L4210	J0JHC0000045	COIL	
	L4501	J0JYC0000068	COIL	
	L4503	J0JYC0000068	COIL	
	L4506	J0JYC0000068	COIL	
	L4507	J0JYC0000068	COIL	
	L5609	G1C6R8MA0416	COIL	
	L5610	G1C100MA0416	COIL	
	L5611	G1C220MA0416	COIL	
	L5613	J0JHC0000075	BEAD COIL	
	L7109	EXCELSA39E	BEAD CHOKE	
	L7205	G0C470MA0049	COIL	
	L7206	G0C470MA0049	COIL	
	L8000	J0JHC0000045	COIL	
	L8002	J0JHC0000045	COIL	
	L8003	J0JHC0000045	COIL	
	L8004	J0JHC0000045	COIL	
	L8005	J0JHC0000045	COIL	
	L8006	J0JHC0000045	COIL	
	L8007	ELJRF10NJFB	CHIP COIL	
	L8008	J0JHC0000045	COIL	
	L8009	J0JHC0000045	COIL	
	L8010	J0JHC0000045	COIL	
	L8011	J0JHC0000045	COIL	
	L8012	J0JHC0000045	COIL	
	L8013	J0JHC0000045	COIL	
	L8014	J0JHC0000045	COIL	
	L8016	J0JHC0000045	COIL	
	L8017	J0JHC0000045	COIL	
	L8302	J0JGC0000070	BEAD CORE	
	L8306	J0JHC0000045	COIL	
	L8307	G1CR22JA0020	INDUCTOR	
	L8308	G1CR22JA0020	INDUCTOR	
	L8309	G1C82NJA0075	INDUCTOR	
	L8310	G1CR10JA0020	INDUCTOR	
	L8311	G1CR10JA0020	INDUCTOR	
	L8312	G1C56NJ00018	INDUCTOR	
	L8313	G1C56NJ00018	INDUCTOR	
	L8314	G1CR18JA0020	INDUCTOR	
	L8315	J0JCC0000269	COIL	
	L8317	G1C101M00029	COIL	
	L8500	J0JHC0000045	COIL	
	L8501	J0JHC0000045	COIL	
		TRANSISTORS		
	Q2500	DSC200100L	TRANSISTOR	
	Q2504	DSC200100L	TRANSISTOR	
	Q2760	B1ABCF000231	TRANSISTOR	
	Q2761	B1ABCF000231	TRANSISTOR	
	Q3201	B1ABCF000231	TRANSISTOR	
	Q3202	B1ABCF000231	TRANSISTOR	
	Q3203	B1ABCF000231	TRANSISTOR	
	Q3204	B1ABCF000231	TRANSISTOR	
	Q3205	B1ADCE000022	TRANSISTOR	
	Q3206	B1ADCE000022	TRANSISTOR	
	Q3207	B1ABCF000231	TRANSISTOR	
	Q3208	B1ABCF000231	TRANSISTOR	
	Q3209	B1ABCF000231	TRANSISTOR	
	Q3210	B1CBGD000001	TRANSISTOR	
	Q3211	B1CBGD000001	TRANSISTOR	
	Q4500	DSC2001S0L	TRANSISTOR	
	Q4513	B1ADCE000022	TRANSISTOR	
	Q4515	B1HFCFA00026	TRANSISTOR	
	Q4702	DSC2001S0L	TRANSISTOR	
	Q4703	DSC2001S0L	TRANSISTOR	
	Q4704	DSC2001S0L	TRANSISTOR	
	Q4770	B1ADGJ000008	TRANSISTOR	
	Q4771	DSC2001S0L	TRANSISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	Q5602	BLADCE000022	TRANSISTOR	
	Q5605	BLADCE000022	TRANSISTOR	
	Q5612	BLABCF000231	TRANSISTOR	
	Q5613	BLABCF000231	TRANSISTOR	
	Q5615	BLABGC000011	TRANSISTOR	
	Q5616	DSC2001S0L	TRANSISTOR	
	Q7000	DSA2001S0L	TRANSISTOR	
	Q7001	DSC2001S0L	TRANSISTOR	
	Q7101	B1CERU000011	TRANSISTOR	
	Q7102	DSA2001S0L	TRANSISTOR	
	Q7103	DSC200100L	TRANSISTOR	
	Q7200	DSC200100L	TRANSISTOR	
	Q7201	DSC200100L	TRANSISTOR	
	Q7204	B1CHRE000005	TRANSISTOR	
	Q7205	DSC200100L	TRANSISTOR	
	Q7801	B1CHRE000005	TRANSISTOR	
	Q7802	B1CHRE000005	TRANSISTOR	
	Q7803	B1CFRE000012	TRANSISTOR	
	Q7804	B1CFRE000012	TRANSISTOR	
	Q8002	BLABCF000231	TRANSISTOR	
	Q8003	BLABCF000231	TRANSISTOR	
	Q8005	B1CBGD000001	TRANSISTOR	
	Q8301	DSA2001S0L	TRANSISTOR	
	Q8302	DSA2001S0L	TRANSISTOR	
	Q8303	BLABCF000231	TRANSISTOR	
	Q8304	BLABCF000231	TRANSISTOR	
	Q8305	BLADCE000022	TRANSISTOR	
	Q8306	BLADCE000022	TRANSISTOR	
	Q8307	BLABCF000231	TRANSISTOR	
	Q8308	DSA2001S0L	TRANSISTOR	
	Q9900	DSC200100L	TRANSISTOR	
	Q9901	DSA200100L	TRANSISTOR	
	Q9902	DSC200100L	TRANSISTOR	
	Q9904	DSC200100L	TRANSISTOR	
		RESISTORS		
	R1179	D1BB7151A055	M 7.15KOHM , 1/10W	
	R1180	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R2114	D1BB75R0A055	M 750HM , 1/10W	
	R2115	D1BB75R0A055	M 750HM , 1/10W	
	R2116	D1BB75R0A055	M 750HM , 1/10W	
	R2117	D0GA470JA015	M 470HM , J , 1/10W	
	R2118	D0GA470JA015	M 470HM , J , 1/10W	
	R2119	D0GA470JA015	M 470HM , J , 1/10W	
	R2122	ERJ2GEJ221X	M 220 OHM, J , 1/10W	
	R2198	D0GA472JA015	M 4.7KOHM , J , 1/10W	
	R2199	D0GA472JA015	M 4.7KOHM , J , 1/10W	
	R2200	D1BB75R0A055	M 750HM , 1/10W	
	R2218	D0GA680JA015	CHIP RESISTOR	
	R2223	D0GA680JA015	CHIP RESISTOR	
	R2226	D0GAR00Z0001	M 00HM,J,1/10W	
	R2227	D0GAR00Z0001	M 00HM,J,1/10W	
	R2256	D0GAR00Z0001	M 00HM,J,1/10W	
	R2258	D1BB75R0A055	M 750HM , 1/10W	
	R2265	D1BB75R0A055	M 750HM , 1/10W	
	R2281	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2283	D0GA223JA015	M 22KOHM , 1/10W	
	R2284	D0GA223JA015	M 22KOHM , 1/10W	
	R2286	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2288	D0GA223JA015	M 22KOHM , 1/10W	
	R2289	D0GAR00Z0001	M 00HM,J,1/10W	
	R2290	D0GA223JA015	M 22KOHM , 1/10W	
	R2291	J0JBC0000116	BEAD CORE	
	R2292	J0JBC0000116	BEAD CORE	
	R2293	J0JBC0000116	BEAD CORE	
	R2298	D0GAR00Z0001	M 00HM,J,1/10W	
	R2300	ERJ2GEJ151X	RESISTOR	
	R2303	ERJ2GEJ151X	RESISTOR	
	R2309	ERJ2GEJ151X	RESISTOR	
	R2311	ERJ2GEJ151X	RESISTOR	
	R2314	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2315	D0GAR00Z0001	M 00HM,J,1/10W	
	R2317	D0GA223JA015	M 22KOHM , 1/10W	
	R2318	D0GA223JA015	M 22KOHM , 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2319	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2320	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2324	D0GA471JA015	M 470OHM , 1/10W	
	R2325	D0GA471JA015	M 470OHM , 1/10W	
	R2326	D1BB2212A055	M 221KOHM , 1/10W	
	R2327	ERJ3GEYJR00	CHIP RESISTOR	
	R2329	D1BA1822A014	M 18.2KOHM , 1/10W	
	R2330	ERJ2GEJ103X	M 10KOHM , 1/10W	
	R2331	D0GF3R3JA027	M 3.30HM,J,1/16W	
	R2332	D0GF3R3JA027	M 3.30HM,J,1/16W	
	R2333	D0GF3R3JA027	M 3.30HM,J,1/16W	
	R2334	D0GF3R3JA027	M 3.30HM,J,1/16W	
	R2335	D0GAR00Z0001	M 00HM,J,1/10W	
	R2336	D0GAR00Z0001	M 00HM,J,1/10W	
	R2337	D0GAR00Z0001	M 00HM,J,1/10W	
	R2339	D0GAR00Z0001	M 00HM,J,1/10W	
	R2342	J0JBC0000116	BEAD CORE	
	R2343	J0JBC0000116	BEAD CORE	
	R2344	J0JBC0000116	BEAD CORE	
	R2345	J0JBC0000116	BEAD CORE	
	R2348	D0GA303JA015	M 30KOHM , J, 1/10W	
	R2378	ERJ2GEJ103X	M 10KOHM , 1/10W	
	R2384	D0GAR00Z0001	M 00HM,J,1/10W	
	R2385	D0GAR00Z0001	M 00HM,J,1/10W	
	R2386	D0GAR00Z0001	M 00HM,J,1/10W	
	R2387	D0GAR00Z0001	M 00HM,J,1/10W	
	R2388	ERJ2GEJ220X	F 220HM , J, 1/10W	
	R2391	D1BB75R0A055	C 750HM , J, 1/10W	
	R2502	D0GA473JA015	47KOHM , J, 0.063W	
	R2504	D0GA223JA015	C 22KOHM , J, 1/10W	
	R2509	D1BA6040A014	CHIP RESISTOR	
	R2512	D0GA470JA015	470HM , J, 0.063W	
	R2514	D0GA562JA015	5.6KOHM , J, 0.063W	
	R2515	D0GA124JA015	120KOHM , J, 0.063W	
	R2516	ERJ2GEJ103X	M 1KOHM , J , 1/4W	
	R2517	D0GAR00Z0001	M 00HM,J,1/10W (A BOARD)	
	R2517	ERJ2GEJ104X	F 100KOHM , J, 1/10 (V BOARD)	
	R2518	ERJ2GEJ103X	F 10KOHM , J, 1/16W	
	R2529	D0GA332JA015	3.3KOHM , J, 0.063W	
	R2530	D0GA332JA015	3.3KOHM , J, 0.063W	
	R2532	D0GAR00Z0001	M 00HM,J,1/10W	
	R2542	D0GAR00Z0001	M 00HM,J,1/10W	
	R2700	D0GAR00Z0001	M 00HM,J,1/10W	
	R2702	D0GAR00Z0001	M 00HM,J,1/10W	
	R2704	D0GAR00Z0001	M 00HM,J,1/10W	
	R2757	D0GA182JA015	1.8KOHM , J, 0.063W	
	R2759	D0GA101JA015	M 100OHM , J, 1/10W	
	R2760	D0GA101JA015	M 100OHM , J, 1/10W	
	R2761	D0GA101JA015	M 100OHM , J, 1/10W	
	R2762	D0GA101JA015	M 100OHM , J, 1/10W	
	R2763	D0GA473JA015	M 100OHM , J, 1/10W	
	R2764	D0GA473JA015	M 47KOHM,J, 1/10W	
	R2765	ERJ2GEJ103X	M 47KOHM,J, 1/10W	
	R2766	D0GA473JA015	F 10KOHM , J, 1/16W	
	R2767	ERJ2GEJ102X	M 47KOHM,J, 1/10W	
	R2769	ERJ2GEJ103X	F 10KOHM , J, 1/16W	
	R2770	D0GA473JA015	F 47KOHM , J, 1/16W	
	R2779	D0GDR00JA017	C 00HM , J, 1/10W	
	R3015	D0GAR00Z0001	M 00HM,J,1/10W	
	R3016	D0GAR00Z0001	M 00HM,J,1/10W	
	R3017	D0GAR00Z0001	M 00HM,J,1/10W	
	R3026	D0GAR00Z0001	M 00HM,J,1/10W	
	R3027	D0GAR00Z0001	M 00HM,J,1/10W	
	R3124	D0GAR00Z0001	M 00HM,J,1/10W	
	R3125	D0GAR00Z0001	M 00HM,J,1/10W	
	R3126	D0GAR00Z0001	M 00HM,J,1/10W	
	R3200	ERJ2GEJ220X	F 220HM , J, 1/16W	
	R3201	ERJ2GEJ220X	F 220HM , J, 1/16W	
	R3202	ERJ2GEJ221X	RESISTOR	
	R3203	D0GA101JA015	M 100OHM , J, 1/10W	
	R3205	D0GA101JA015	M 100OHM , J, 1/10W	
	R3206	ERJ2GEJ221X	RESISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R3207	ERJ2GEJ221X	RESISTOR	
	R3208	ERJ6ENF75R0	M 750HM, 1/10W	
	R3209	D0GA184JA015	C 180KOHM ,J, 1/10W	
	R3210	D0GA184JA015	C 180KOHM ,J, 1/10W	
	R3211	ERJ2RKD2203X	C 220KOHM ,J, 1/10W	
	R3212	JOJBC0000116	BEAD CORE	
	R3213	ERJ2RKD3303X	C 330KOHM ,J, 1/10W	
	R3214	ERJ2RKF1021X	C 1.02KOHM ,J, 1/10W	
	R3215	D1BA3241A014	C 3.24KOHM ,J, 1/10W	
	R3216	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3217	D0GA473JA015	M 47KOHM,J, 1/10W	
	R3218	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3219	D0GA472JA015	4.7KOHM ,J, 0.063W	
	R3220	D1BB1502A055	15KOHM ,J, 0.063W	
	R3221	D1BB1502A055	15KOHM ,J, 0.063W	
	R3222	D1BB1002A055	10KOHM ,J, 0.063W	
	R3223	D1BB1002A055	10KOHM ,J, 0.063W	
	R3224	D1BB1002A055	10KOHM ,J, 0.063W	
	R3225	D1BB1002A055	10KOHM ,J, 0.063W	
	R3226	D1BB1502A055	15KOHM ,J, 0.063W	
	R3227	D1BB1502A055	15KOHM ,J, 0.063W	
	R3228	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3229	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3233	D0GA472JA015	4.7KOHM ,J, 0.063W	
	R3234	D0GA472JA015	4.7KOHM ,J, 0.063W	
	R3235	D0GA473JA015	M 47KOHM,J, 1/10W	
	R3236	D0GA473JA015	M 47KOHM,J, 1/10W	
	R3237	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R3238	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R3239	D0GA564JA015	C 560KOHM J, 1/10W	
	R3240	D0GA564JA015	C 560KOHM J, 1/10W	
	R3241	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R3242	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R3243	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3244	D0GA473JA015	M 47KOHM,J, 1/10W	
	R3245	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3246	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3249	ERJ2GEJ221X	M 220 OHM, J, 1/10W	
	R3250	D0GA472JA015	C 4.7KOHM ,J, 1/10W	
	R3252	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3254	D0GA473JA015	M 47KOHM,J, 1/10W	
	R3255	D0GA472JA015	C 4.7KOHM ,J, 1/10W	
	R3256	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R3257	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R3258	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R3265	D0GAR00Z0001	M 00HM,J,1/10W	
	R3267	D0GAR00Z0001	M 00HM,J,1/10W	
	R3268	D0GAR00Z0001	M 00HM,J,1/10W	
	R3269	D0GAR00Z0001	M 00HM,J,1/10W	
	R3270	D0GAR00Z0001	M 00HM,J,1/10W	
	R3271	D0GAR00Z0001	M 00HM,J,1/10W	
	R3272	JOJBC0000116	BEAD CORE	
	R3273	D0GAR00Z0001	M 00HM,J,1/10W	
	R3274	D0GAR00Z0001	M 00HM,J,1/10W	
	R4232	EXB28VR000X	RESISTOR	
	R4234	EXB28VR000X	RESISTOR	
	R4238	EXB28VR000X	RESISTOR	
	R4359	D0GAR00Z0001	M 00HM,J,1/10W	
	R4502	D0GAR00Z0001	M 00HM,J,1/10W	
	R4503	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R4504	D0GAR00Z0001	M 00HM,J,1/10W	
	R4505	D0GAR00Z0001	M 00HM,J,1/10W	
	R4506	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4507	D0GAR00Z0001	M 00HM,J,1/10W	
	R4509	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R4515	ERJ2GEJ102X	M 1KOHM , J, 1/4W	
	R4525	D0GAR00Z0001	M 00HM,J,1/10W	
	R4526	D0GAR00Z0001	M 00HM,J,1/10W	
	R4527	D0GA472JA015	M 4.7KOHM , J, 1/10W	
	R4548	ERJ2GEJ220X	F 220HM ,J, 1/16W	
	R4549	ERJ2GEJ151X	RESISTOR	
	R4550	ERJ2GEJ151X	RESISTOR	
	R4556	ERJ2GEJ102X	M 1KOHM , J, 1/4W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4560	D0GA151JA015	M 1500HM ,J, 1/16W	
	R4561	D0GA560JA015	M 560HM ,J, 1/16W	
	R4564	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4565	D0GAR00Z0001	M 00HM,J,1/10W	
	R4566	D0GAR00Z0001	M 00HM,J,1/10W	
	R4567	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4601	D0GAR00Z0001	M 00HM,J,1/10W	
	R4602	D0GAR00Z0001	M 00HM,J,1/10W	
	R4703	ERJ6GEYJ100	M 100HM,J,1/10W	
	R4705	ERJ2GEJ220X	F 220HM ,J, 1/16W	
	R4706	ERJ2GEJ220X	F 220HM ,J, 1/16W	
	R4711	D0GA472JA015	M 4.7KOHM , J, 1/10W	
	R4715	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4716	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4717	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4729	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4730	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4731	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R4742	D0GD150JA017	C 150HM ,J, 1/10W	
	R4748	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4752	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4753	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4762	EXB2HV220JV	RESISTOR ARRAY	
	R4775	ERJ3GEYJR00	C 00HM ,J, 1/10W	
	R4777	D0GA473JA015	M 47KOHM,J, 1/10W	
	R4778	D0GA152JA015	M 1.5KOHM ,J, 1/16W	
	R4779	D0GA473JA015	M 47KOHM,J, 1/10W	
	R4780	EXB2HV220JV	RESISTOR ARRAY	
	R4781	D0GA101JA015	M 1000HM ,J, 1/10W	
	R4782	D0GA182JA015	M 1.8KOHM ,J, 1/16W	
	R4791	D0GDR00JA017	C 00HM ,J, 1/10W	
	R4793	D0GA101JA015	M 1000HM ,J, 1/10W	
	R4794	ERJ2GEJ102X	M 1KOHM , J, 1/4W	
	R4795	ERJ2GEJ102X	M 1KOHM , J, 1/4W	
	R4796	D0GDR00JA017	C 00HM ,J, 1/10W	
	R4800	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4802	EXB2HV220JV	RESISTOR ARRAY	
	R4803	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R4809	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4817	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4820	D0GA473JA015	F 10KOHM, J, 1/16W	
	R4821	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4822	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R4830	ERJ2GEJ104X	F 100KOHM ,J, 1/16W	
	R4831	ERJ2GEJ104X	F 100KOHM ,J, 1/16W	
	R4861	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R4868	D0GAR00Z0001	M 00HM,J,1/10W	
	R4974	D1BA1601A014	C 1.6KOHM ,J, 1/10W	
	R4975	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R5605	D0GA223JA015	M 22KOHM ,J, 1/10W	
	R5606	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R5607	D0GA152JA015	M 1.5KOHM ,J, 1/16W	
	R5608	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R5610	D0GA471JA015	M 4700HM,J,1/10W	
	R5623	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R5624	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R5625	D0GA683JA015	M 68KOHM ,J, 1/10W	
	R5626	ERJ2GEJ104X	F 100KOHM ,J, 1/16W	
	R5627	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R5629	D0GA105JA015	M 1MOHM ,J, 1/16W	
	R5630	D0GA101JA015	M 1000HM,J,1/10W	
	R5631	D0GA471JA015	M 4700HM,J,1/10W	
	R5632	D0GA101JA015	M 1000HM ,J, 1/10W	
	R5667	D1BB4301A087	M 4.3KOHM ,J, 1/10W	
	R5668	D1BB1002A087	M 10KOHM ,J, 1/10W	
	R5669	D1BA2201A014	M 2.2KOHM ,J, 1/10W	
	R5670	D0GA223JA015	M 22KOHM ,J, 1/10W	
	R5671	D0GA683JA015	M 68KOHM ,J, 1/10W	
	R5672	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R5673	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R5674	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R5675	ERJ2GEJ103X	F 10KOHM, J, 1/16W	
	R5676	D0GA473JA015	M 47KOHM ,J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5678	D1BB9101A087	M 12KOHM ,J, 1/10W	
	R5679	D1BB1002A087	M 10KOHM ,J, 1/10W	
	R5680	D1BA2201A014	M 2.2KOHM ,J, 1/10W	
	R5681	D1BB4702A087	M 47KOHM ,J, 1/10W	
	R5682	D1BB1002A087	M 10KOHM , 1/10W	
	R5683	D1BA6801A014	M 6.8KOHM , 1/10W	
	R5694	D0GA471JA015	M 470OHM ,J, 1/10W	
	R5696	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R5697	ERJ3GEYJ332	M 3.3KOHM ,J, 1/16W	
	R5701	D1BA20010002	M 2KOHM ,J, 1/10W	
	R5702	D1BA1001A014	M 1KOHM , J , 1/4W	
	R5705	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R5706	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R5707	ERJ3GEYJ150	F 150OHM ,J, 1/10W	
	R5708	ERJ3GEYJ150	F 150OHM ,J, 1/10W	
	R5709	ERJ3GEYJ150	F 150OHM ,J, 1/10W	
	R5710	ERJ3GEYJ2R2	F 2.20HM ,J, 1/10W	
	R5711	ERJ3GEYJ2R2	F 2.20HM ,J, 1/10W	
	R5712	ERJ3GEYJ2R2	F 2.20HM ,J, 1/10W	
	R5713	D1BB6201A087	C 6.2KOHM , 1/10W	
	R5714	D1BB1241A087	C 1.24KOHM , 1/10W	
	R5715	D1BB4301A087	C 4.3KOHM , 1/10W	
⚠	R7001	ERC12ZGK225	S 2.2MOHM ,K, 1/2W	
	R7085	D0GD331JA036	C 330OHM ,J, 1/10W	
	R7086	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7087	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7088	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7089	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7090	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7091	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7092	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7093	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7094	ERJ6ENF1803	M 180KOHM , 1/10W	
	R7095	ERJ6ENF1213	M 121KOHM , 1/10W	
	R7096	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7097	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7098	D0GD822JA036	C 8.2KOHM ,J, 1/10W	
	R7099	D0GD103JA017	F 10KOHM ,J, 1/10W	
	R7105	D0GD153JA036	C 15KOHM ,J, 1/10W	
	R7106	D0GD561JA017	F 560OHM ,J, 1/10W	
	R7107	D0GD220JA059	C 22OHM ,J, 1/10W	
	R7108	D0GD123JA017	F 120OHM ,J, 1/10W	
	R7110	ERX12SJR39E	M 0.39OHM ,J, 1/2W	
	R7111	ERX12SJR39E	M 0.39OHM ,J, 1/2W	
	R7112	D0GD470JA036	C 47OHM ,J, 1/10W	
	R7113	D0GD273JA017	F 27KOHM ,J, 1/10W	
	R7115	D0GD682JA017	F 68KOHM ,J, 1/10W	
	R7130	D0GD102JA017	F 1KOHM , J , 1/4W	
	R7132	D0GD272JA017	F 2.7KOHM ,J, 1/10W	
	R7133	ERJ6ENF5601	M 5.6KOHM , 1/10W	
	R7134	D0GD103JA017	F 10KOHM ,J, 1/10W	
	R7146	ERJ6ENF3322	C 33.2KOHM , 1/10W	
	R7147	ERJ6ENF1602	C 16KOHM , 1/10W	
	R7148	D0GD183JA036	C 18KOHM ,J, 1/10W	
	R7149	D0GD333JA017	F 33KOHM ,J, 1/10W	
	R7150	D0GD472JA017	F 4.7KOHM ,J, 1/10W	
	R7151	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7152	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7153	D0GD103JA017	F 10KOHM ,J, 1/10W	
	R7201	ERJ6ENF1052	F 10.5KOHM , 1/10W	
	R7202	ERJ6ENF9100	F 910OHM , 1/10W	
	R7208	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7227	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7228	D0GD103JA017	F 10KOHM ,J, 1/10W	
	R7229	ERJ6ENF4871	M4.87KOHM , 1/10W	
	R7230	ERJ6ENF1001	M 1KOHM , 1/10W	
	R7232	D0GD224JA036	C 220KOHM ,J, 1/10W	
	R7234	D0GD153JA036	C 15KOHM ,J, 1/10W	
	R7235	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7236	D0GD472JA017	F 4.7KOHM ,J, 1/10W	
	R7237	D0GD224JA036	C 220KOHM ,J, 1/10W	
	R7238	D0GD224JA036	C 220KOHM ,J, 1/10W	
	R7239	D0GD472JA017	F 4.7KOHM ,J, 1/10W	

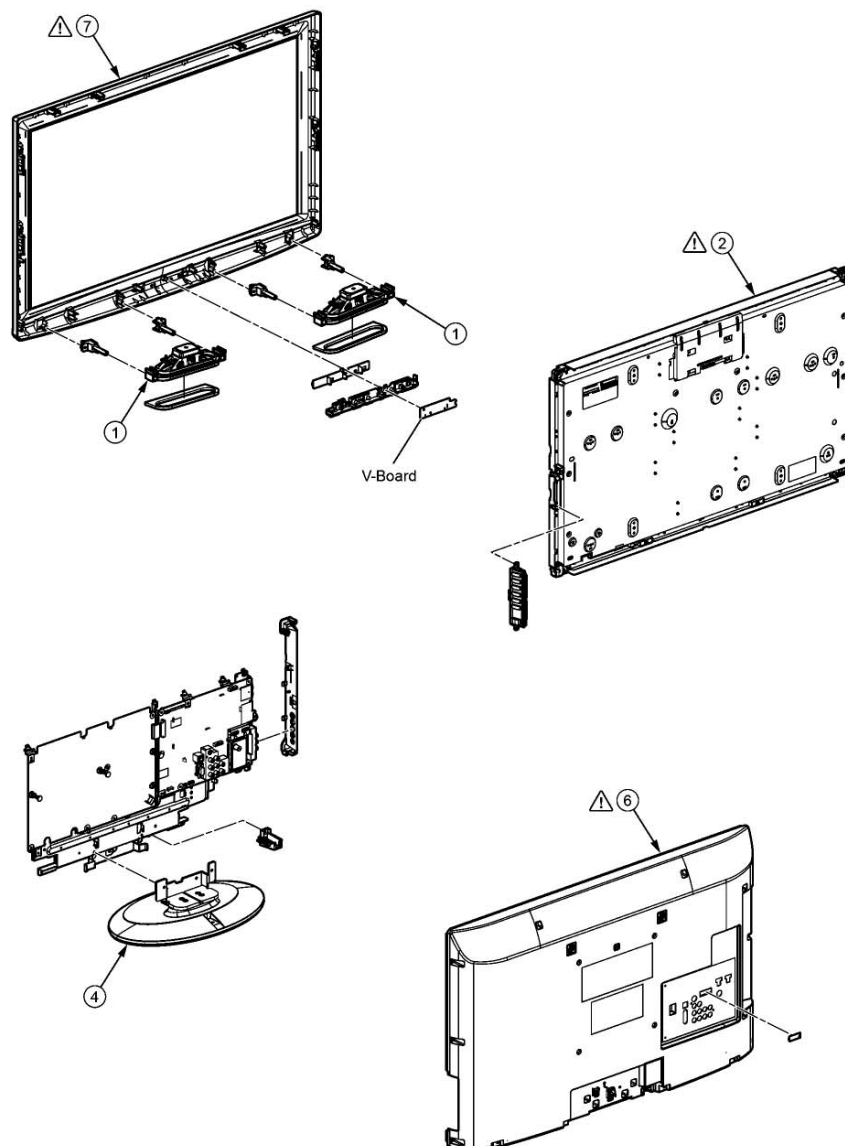
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R7240	D0GD153JA036	C 15KOHM ,J, 1/10W	
	R7241	D0GD153JA036	C 15KOHM ,J, 1/10W	
⚠	R7317	D0XB106J0003	C 10MOHM ,J, 1W	
	R7401	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R7402	ERJ6ENF1741	M1.74KOHM , 1/10W	
	R7403	ERJ6ENF1621	F 1.62KOHM , 1/10W	
	R7404	ERJ6ENF2321	F 2.32KOHM , 1/10W	
	R7405	ERJ6ENF3161	M3.16KOHM , 1/10W	
	R7406	ERJ6ENF2202	M 22KOHM , 1/10W	
	R7801	D0GD101JA017	F 100OHM ,J, 1/10W	
	R7802	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7803	D0GD101JA017	F 100OHM ,J, 1/10W	
	R7804	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7806	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7807	D0GD331JA036	C 330OHM ,J, 1/10W	
	R7809	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7821	ERJ6ENF6803	F 680KOHM , 1/10W	
	R7822	ERJ6ENF4702	M 47KOHM , 1/10W	
	R7823	ERJ6ENF6802	M 68KOHM , 1/10W	
	R7824	ERJ6ENF5603	M 560KOHM , 1/10W	
	R7825	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7826	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7828	ERJ6ENF8201	M 8.2KOHM , 1/10W	
	R7829	ERJ6ENF1802	M 18KOHM , 1/10W	
	R7832	D0GD102JA017	F 1KOHM , J , 1/10W	
	R7833	D0GD101JA017	F 100OHM ,J, 1/10W	
	R7834	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7835	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7836	D0GD101JA017	F 100OHM ,J, 1/10W	
	R7841	D0GD473JA017	F 47KOHM ,J, 1/10W	
	R7870	ERJ6ENF2202	M 22KOHM , 1/10W	
	R7871	ERJ6ENF2202	M 22KOHM , 1/10W	
	R7872	ERJ6ENF2202	M 22KOHM , 1/10W	
	R7873	ERJ6ENF2202	M 22KOHM , 1/10W	
	R7880	D0GD681JA017	F 680OHM ,J, 1/10W	
	R7881	D0GD681JA017	F 680OHM ,J, 1/10W	
	R7882	D0GD681JA017	F 680OHM ,J, 1/10W	
	R7883	D0GD681JA017	F 680OHM ,J, 1/10W	
	R7890	D0GD682JA017	F 6.8KOHM ,J, 1/10W	
	R7891	D0GD682JA017	F 6.8KOHM ,J, 1/10W	
	R7892	D0GD682JA017	F 6.8KOHM ,J, 1/10W	
	R7893	D0GD682JA017	F 6.8KOHM ,J, 1/10W	
	R7903	D0GD683JA017	F 68KOHM ,J, 1/10W	
	R8000	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R8001	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R8003	D1BA3010A014	M 301OHM ,J, 1/10W	
	R8004	D1BA4020A014	M 402OHM ,J, 1/10W	
	R8005	D1BA1020A014	M 102OHM ,J, 1/10W	
	R8006	D1BA4020A014	M 402OHM ,J, 1/10W	
	R8007	D1BA1020A014	M 102OHM ,J, 1/10W	
	R8008	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R8009	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R8010	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8011	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8012	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8013	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8014	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8015	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8016	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8017	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8018	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8019	EXB28V101JX	M 100OHM ,J, 1/10W	
	R8023	D0GA105JA015	M 1MOHM ,J, 1/16W	
	R8024	D0GA152JA015	M 1.5KOHM ,J, 1/16W	
	R8025	D1BB2001A055	M 2KOHM ,J, 1/10W	
	R8026	D1BB2001A055	M 2KOHM ,J, 1/10W	
	R8027	D1BB2001A055	M 2KOHM ,J, 1/10W	
	R8029	D0GAR00Z0001	M 0OHM ,J, 1/10W	
	R8030	D0GAR00Z0001	M 0OHM ,J, 1/10W	
	R8037	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R8039	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8040	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8041	D0GA472JA015	F 4.7KOHM ,J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8043	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8044	ERJ2GEJ102X	F 1KOHM , J , 1/4W	
	R8045	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8048	D0GA273JA015	M 27KOHM ,J, 1/10W	
	R8049	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8050	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8051	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8053	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R8054	D0GA122JA015	M 1.2KOHM ,J, 1/10W	
	R8055	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R8056	D0GA152JA015	M 1.5KOHM ,J, 1/16W	
	R8057	D0GA152JA015	M 1.5KOHM ,J, 1/16W	
	R8058	ERJ2GEJ221X	M 1.2KOHM ,J, 1/10W	
	R8062	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8068	D0GA151JA015	M 1.5KOHM ,J, 1/16W	
	R8079	ERJ2RKF73R2X	M 73.2OHM ,J, 1/10W	
	R8089	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8091	D1BA80R6A014	M 80.6OHM ,J, 1/10W	
	R8094	D0GA472JA015	M 4.7KOHM ,J, 1/10W	
	R8098	D0GA472JA015	M 4.7KOHM ,J, 1/10W	
	R8099	ERJ2GEJ102X	F 1KOHM , J, 1/16W	
	R8100	D0GA223JA015	M 22KOHM ,J, 1/10W	
	R8101	D0GA472JA015	M 4.7KOHM ,J, 1/10W	
	R8106	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8302	D0GA561JA015	M 560OHM ,J, 1/10W	
	R8303	ERJ2GEJ102X	F 1KOHM , J, 1/16W	
	R8305	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8306	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R8307	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8308	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8309	D0GA750JA015	M 750OHM ,J, 1/10W	
	R8310	D0GA474JA015	M 470KOHM ,J, 1/16W	
	R8311	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R8312	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8313	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R8314	D0GA333JA015	M 33KOHM ,J, 1/10W	
	R8315	D0GA223JA015	M 22KOHM ,J, 1/10W	
	R8316	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8317	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8318	D0GA223JA015	M 22KOHM ,J, 1/10W	
	R8319	D0GA393JA015	M 39KOHM ,J, 1/10W	
	R8320	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8321	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8322	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8323	D0GA333JA015	M 33KOHM ,J, 1/10W	
	R8324	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8325	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8326	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8330	D0GA222JA015	M 2.2KOHM ,J, 1/10W	
	R8331	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8332	ERJ2GEJ220X	F 22OHM ,J, 1/16W	
	R8333	D0GA122JA015	M 1.2KOHM ,J, 1/10W	
	R8334	D0GA471JA015	M 470OHM , 1/10W	
	R8335	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R8336	ERJ2GEJ220X	F 22OHM ,J, 1/16W	
	R8337	ERJ2GEJ102X	F 1KOHM , J, 1/16W	
	R8338	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8339	ERJ2GEJ221X	C 220KOHM ,J, 1/10W	
	R8341	D0GD821JA017	F 820OHM ,J, 1/10W	
	R8342	ERJ2GEJ102X	F 1KOHM ,J, 1/16W	
	R8345	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8346	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8347	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8348	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8350	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8389	D0GA390JA015	C 39OHM ,J, 1/10W	
	R8390	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8391	D1BA5362A014	C 53.6KOHM , 1/10W	
	R8393	D1BA1002A014	C 10KOHM , 1/10W	
	R8394	D0GA222JA015	C 2.2KOHM ,J, 1/10W	
	R8395	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R8396	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R8406	D0GAR00Z0001	M 0OHM,J,1/10W	

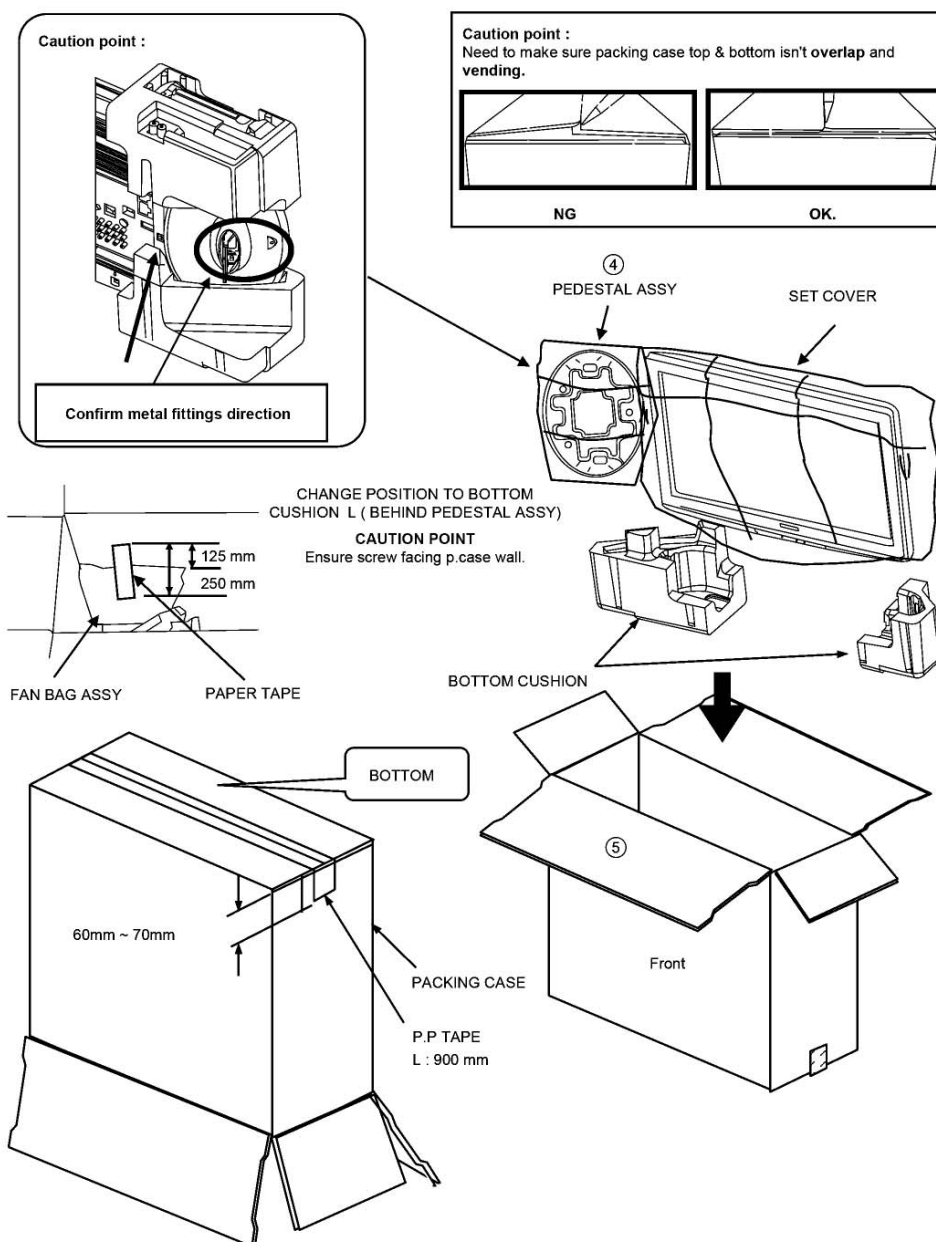
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8501	D0GA680JA015	C 68OHM ,J, 1/10W	
	R8502	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8512	EXB2HV680JV	RESISTOR	
	R8513	EXB2HV680JV	RESISTOR	
	R8514	EXB2HV680JV	RESISTOR	
	R8515	EXB2HV680JV	RESISTOR	
	R8516	EXB2HV680JV	RESISTOR	
	R8521	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8522	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8523	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8528	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8530	EXB2HV330JV	FIXED RESISTOR	
	R8531	D0GA680JA015	M 68OHM ,J, 1/10W	
	R8532	D0GA680JA015	M 68OHM ,J, 1/10W	
	R8533	D0GA680JA015	M 68OHM ,J, 1/10W	
	R8538	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8539	EXB2HV680JV	RESISTOR	
	R8543	EXB2HV103JV	RESISTOR	
	R8546	D0GA101JA015	M 100OHM ,J, 1/10W	
	R8547	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8548	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R8557	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8560	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R8851	D1BA2201A014	M 2.2KOHM ,J, 1/10W	
	R8852	D0GAR00Z0001	M 0OHM,J,1/10W	
	R8853	D1BA1001A014	M 1KOHM , J , 1/4W	
	R9901	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R9902	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R9903	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R9904	D0GA302JA015	M 3KOHM ,J, 1/10W	
	R9907	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R9908	ERJ2GEJ102X	M 1KOHM , J , 1/4W	
	R9909	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R9912	ERJ2GEJ103X	F 10KOHM ,J, 1/16W	
	R9915	D0GA473JA015	F 47KOHM ,J, 1/10W	
	R9917	D0GA472JA015	F 4.7KOHM ,J, 1/10W	
	R9919	D0GA272JA015	M 2.7KOHM , 1/10W	
	R9922	D0GA100JA015	M 100OHM ,J, 1/10W	
	R9923	D0GA680JA015	M 68OHM ,J, 1/10W	
	R9927	D0GAR00Z0001	M 0OHM,J,1/10W	
		TRANSFORMERS		
⚠	T7100	ETS28BH1C6AC	TRANSFOMER	
⚠	T7801	G4FYA0000017	TRANSFOMER	
⚠	T7802	G4FYA0000017	TRANSFOMER	
		OTHERS		
	A01	K1FY124D0001	CONNECTOR	
	A02	K1KA04B00273	CONNECTOR	
	A03	K1KA15AA0409	CONNECTOR	
	A10	K1KA08B00270	CONNECTOR	
	A11	K1KA04BA0055	CONNECTOR	
	A18	K1KA08AA0714	CONNECTOR	
	A21	K1KB51B00003	CONNECTOR	
	CF7101	D4CAY8R0A010	COIL	
	D2500A	B3AAB0000343	LED	
⚠	F7001	K5D502BNA005	FUSE	
	F7001-1	K3GE1ZZ00001	FUSE HOLDER	
	F7001-2	K3GE1ZZ00001	FUSE HOLDER	
	FL2100	J0HABB000003	EMI FILTER	
	FL2101	J0HABB000003	EMI FILTER	
	FL2102	J0HABB000004	EMI FILTER	
	FL2103	J0HABB000004	EMI FILTER	
	FL2104	J0HABB000004	EMI FILTER	
	FL4201	EXC28CE201U	CHOKE COIL	
	FL4202	EXC28CE201U	CHOKE COIL	
	FL4203	EXC28CE201U	CHOKE COIL	
	JA1	D0GDR00JA017	CHIP RESISTOR	
	JK2101A	K1U812A00001	AV TERMINAL	
	JK2108A	K1FY315A0006	CONNECTOR	
	JK4502	K1FY119D0011	HDMI CONNECTOR	
	JK8502	K1NA12E00017	CONNECTOR	
	JS1001	D0GAR00Z0001	CHIP RESISTOR	
	JS1010	D0GAR00Z0001	CHIP RESISTOR	
	LF7001	G0B103H00009	CHOKE COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	LF7002	G0B103H00009	CHOKE COIL	
	P1	K1KY02A00001	CONNECTOR	
	P2	K1KA15AA0517	CONNECTOR	
	P3	K1KA03AA0193	CONNECTOR	
	P5	K1KY02B00008	CONNECTOR	
	P6	K1KY02B00008	CONNECTOR	
	P7	K1KY02B00008	CONNECTOR	
	P8	K1KY02B00008	CONNECTOR	
⚠	PA4803	ERBSE1R50U	FUSE	
	PA7201	B1ZAZ0000031	TRANSISTOR	
	PA7202	B1ZAZ0000031	TRANSISTOR	
	PA7801	B1ZAZ0000016	TRANSISTOR	
⚠	PC7100	B3PAA0000363	PHOTO COUPLER	
⚠	PC7101	B3PAA0000363	PHOTO COUPLER	
⚠	PC7102	B3PAA0000363	PHOTO COUPLER	
	RM2500	PNJ4815M01TV	REMOCON SENSOR	
⚠	SN2500	B3JB00000078	PHOTO DETECTOR	
	SW7401	EVQ11G05R	SWITCH	
	SW7402	EVQ11G05R	SWITCH	
	SW7403	EVQ11G05R	SWITCH	
	SW7404	EVQ11G05R	SWITCH	
	SW7405	EVQ11G05R	SWITCH	
	SW7406	EVQ11G05R	SWITCH	
	SW7407	EVQ11G05R	SWITCH	
⚠	TU8302	ENG36F12KF	TUNER	
	V10	K1KA07B00135	CONNECTOR	
⚠	VR7851	EVMEASA00B14	TRIMMER POTENTIOMETER	
	X8000	H0J250500094	CRYSTAL OSC	
	ZA5400	K4ZZ01000267	SHIELD CHIP	
	ZA5401	K4ZZ01000267	SHIELD CHIP	
	ZA5402	K4ZZ01000267	SHIELD CHIP	
	ZA5405	K4ZZ01000267	SHIELD CHIP	
	ZA5408	K4ZZ01000267	SHIELD CHIP	
	ZA5409	K4ZZ01000267	SHIELD CHIP	
	ZA5410	K4ZZ01000267	SHIELD CHIP	
	ZA5411	K4ZZ01000267	SHIELD CHIP	
	ZA5412	K4ZZ01000267	SHIELD CHIP	
	ZA5413	K4ZZ01000267	SHIELD CHIP	
	ZA5414	K4ZZ01000267	SHIELD CHIP	
	ZA5415	K4ZZ01000267	SHIELD CHIP	
	ZA5416	K4ZZ01000267	SHIELD CHIP	
	ZA5417	K4ZZ01000267	SHIELD CHIP	
	ZA5418	K4ZZ01000267	SHIELD CHIP	
	ZA7001	K4AD01A00002	CONNECTOR	
	ZA7003	K4AD01A00002	CONNECTOR	

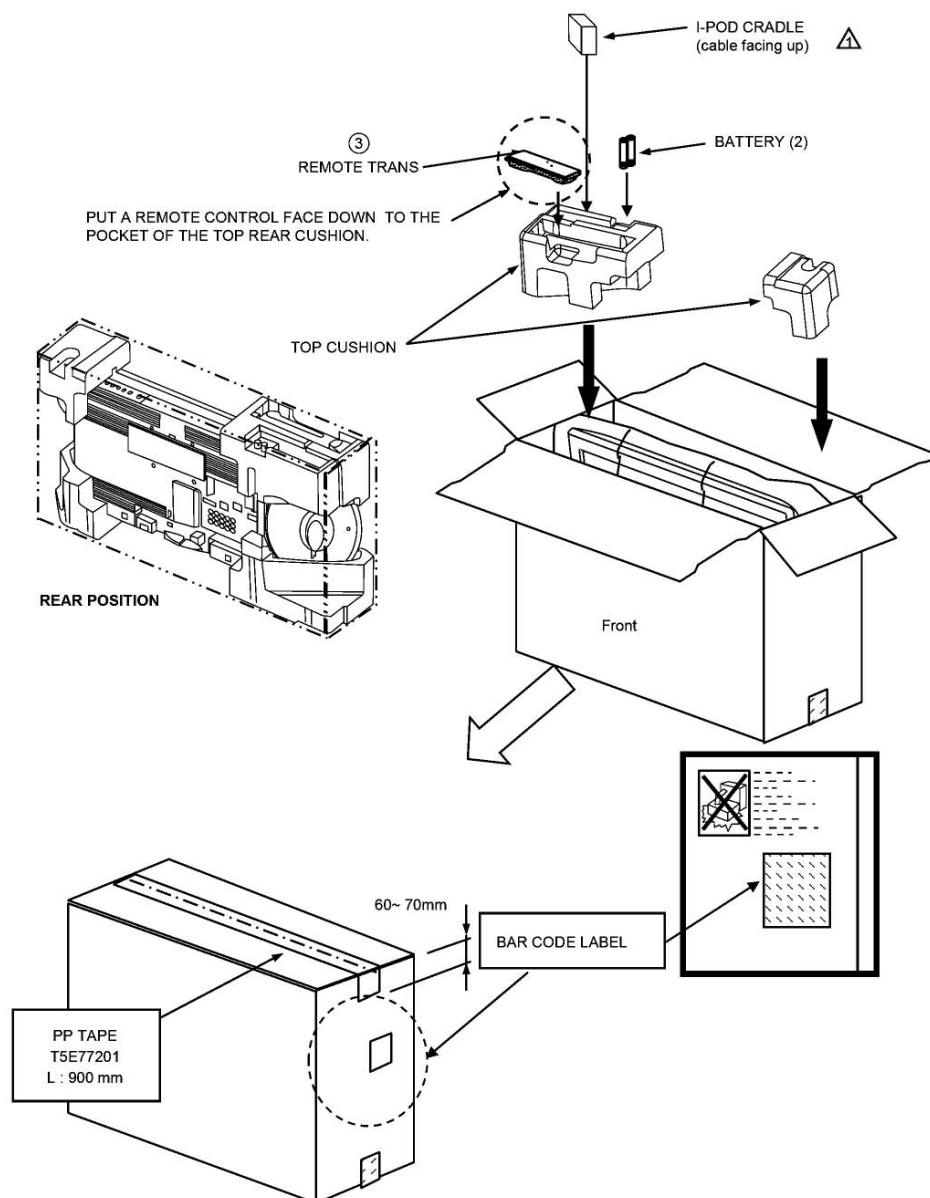
Model No. : TC-L22X2 Parts Location









Model No. : TC-L22X2 Packing Exploded View 1



Model No. : TC-L22X2 Packing Exploded View 2



Model No. : TC-L22X2 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K2CB2YY00018	AC CORD		
	1	L0AA08B00005	SPEAKER		
	2	L5EDD5Q00014	LCD PANEL		
	3	N2QAYB000485	REMOTE CONTROL TRANSMITTER		
	4	TBL4GA0043	PEDESTAL ASS'Y		
		TBM4GC457	MODEL NAME PLATE		
		TBX4GA01701A	CONTROL BUTTON		
		TKK4GC5024-1	LED PANEL		
		TKP4GA04202	SIDE AV BRACKET		
		TKP4GA04301	CONTROL PANEL BRACKET		
		TKX4GA03701	SP BRACKET L		
		TKX4GA03801	SP BRACKET R		
		TMX4GE009	BRACKET-IP		
		TMX4GX005	AC CORD BRACKET		
		TNM2AX0012	IPOD CRADLE		
	RTL	TZT/A10QLM	A BOARD		
	RTL	TNPA5134AC	V BOARD		
	RTL	TNPA5147CA	P BOARD		
	5	TPC4GA07601	PACKING CASE		
		TPD4GA0157-1	TOP CUSHION		
		TPD4GA0158-1	BOTTOM CUSHION		
		TPE4GH023-1	SET COVER		
		TQZ4GB252	FAN BAG ASS'Y		
	6	TTU4GA0359	BACK COVER ASS'Y		
	7	TTY4GA0139	CABINET ASS'Y		
		XSN3+4FJ	SCREW (PANEL 4)		
		XSN3+6FJ	SCREW		
		XTB4+12JFJ	SCREW		
		XTB4+15JFJK	SCREW		
		XTV3+8GFJK	SCREW		
		XYC3+FJ8FJ	SCREW		
		XYN3+J8FJ	SCREW		
		XYN4+F12FJK	SCREW		