

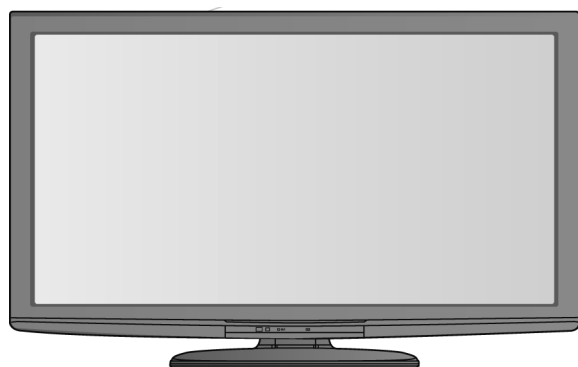
Service Manual

LCD TV

Model No. **TH-L42U20R**

Chassis: **KM07**

Destination: **IRAN**



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.

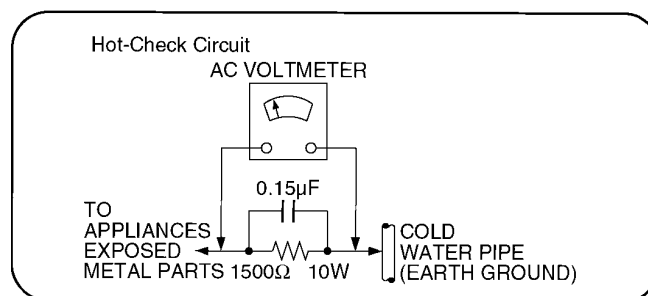


Figure 1

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).

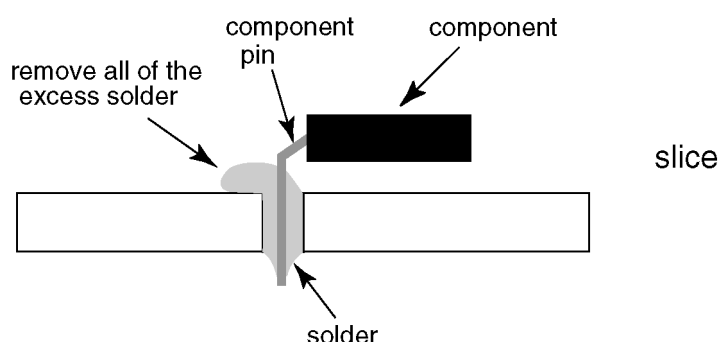
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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)



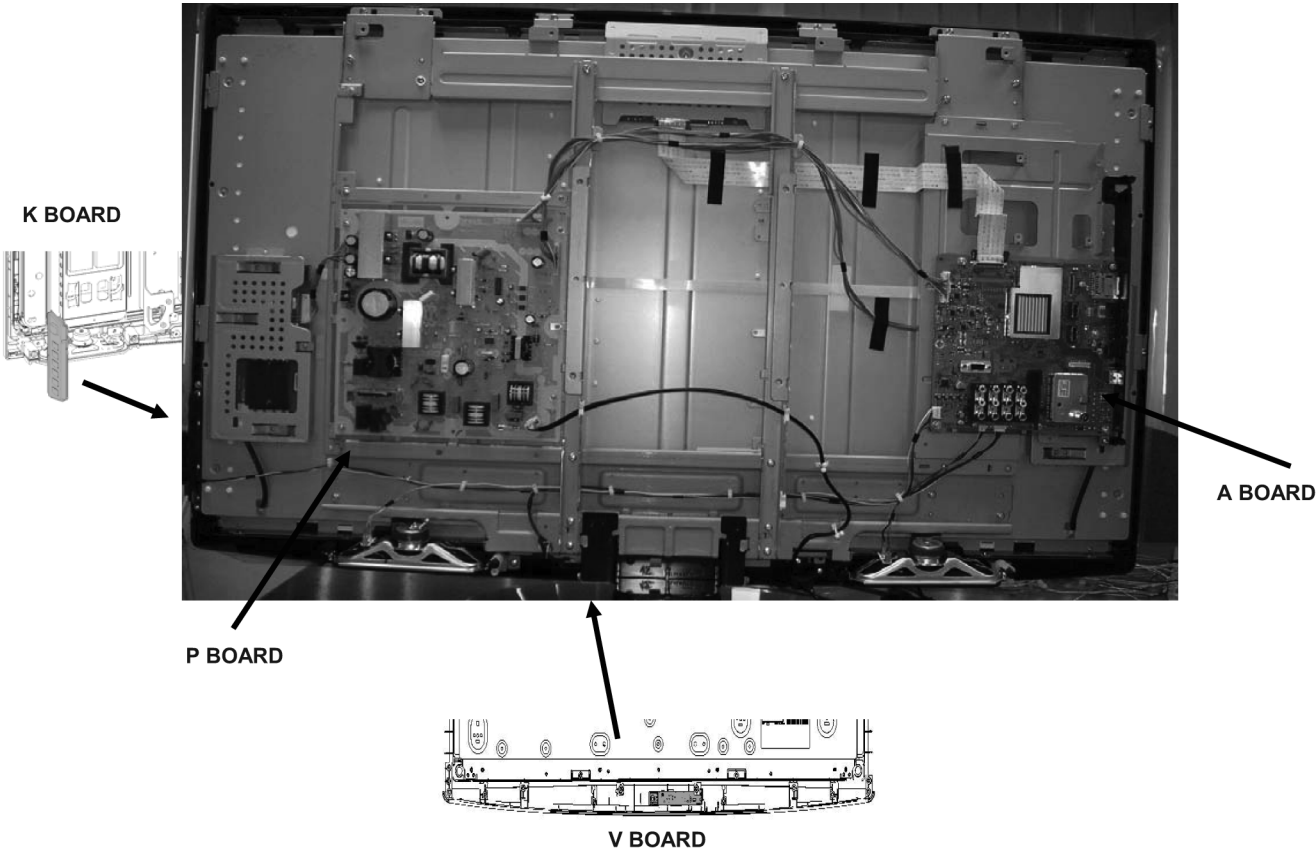
Suggested Pb free solder

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	Main Device
A BOARD	AVSW, TUN, OFDM, ADV, P-AVC, GENX, EEP, TEMP
P BOARD	POWER SUPPLY
V BOARD	Remote, LED, Luminunce Sensor
K BOARD	KEY, Power SW

4 Specifications

Power Source	AC Single 220-240 V, 50 / 60 Hz
Power Consumption	
Average use	178 W
Standby Condition	0.5 W
Display panel	
Aspect Ratio	16:9
Visible screen size	106 cm (diagonal) 930 mm (W) × 523 mm (H)
Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Sound	
Speaker	160 mm × 40 mm × 2 pcs, 8 Ω
Audio Output	20 W (10 W + 10 W), 10% THD
Headphones	M3 (3.5 mm) stereo mini Jack × 1
PC signals	VGA, SVGA, WVGA, XGA SXGA, WXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz

Receiving Systems / Band name	17 SYSTEMS	FUNCTIONS
	1 PAL B, G, H 2 PAL I 3 PAL D, K 4 SECAM B, G 5 SECAM D, K 6 SECAM K1 7 NTSC M (NTSC 3.58 / 4.5MHz)	Reception of broadcast transmissions and playback from video cassette tape recorders.
	8 NTSC 4.43 / 5.5 MHz 9 NTSC 4.43 / 6.0 MHz 10 NTSC 4.43 / 6.5 MHz 11 NTSC 3.58 / 5.5 MHz 12 NTSC 3.58 / 6.0 MHz 13 NTSC 3.58 / 6.5 MHz 14 SECAM I	Playback from special VCR's or DVD.
	15 PAL 60 Hz / 5.5 MHz 16 PAL 60 Hz / 6.0 MHz 17 PAL 60 Hz / 6.5 MHz	Playback from Special Disc Players and Special VCR's or DVD.

Receiving Channels (Regular TV)	
PAL B/G	2 - 12 (PAL / SECAM B, K1) 0 - 12 (PAL B AUST.) 1 - 9 (PAL B N.Z.) 1 - 12 (PAL / SECAM D) 1 - 12 (NTSC M JAPAN) 2 - 13 (NTSC M USA)
UHF BAND	21 - 69 (PAL G, H, I / SECAM G, K, K1) 28 - 69 (PAL B AUST.) 13 - 57 (PAL D, K) 13 - 62 (NTSC M JAPAN) 14 - 69 (NTSC M USA)
CATV	S1 - S20 (OSCAR) 1 - 125 (USA CATV) C13 - C49 (JAPAN) S21 - S41 (HYPER) Z1 - Z37 (CHINA) 5A, 9A (AUST.)

Aerial - Rear	VHF / UHF
Operating Conditions	Temperature : 0°C - 40°C Humidity : 20 % - 80 % RH (non-condensing)

Connection Terminals			
AV1 Input	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms]
	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
	COMPONENT	Y	1.0 V [p-p] (including synchronization)
		P _B /C _B , P _R /C _R	± 0.35 V [p-p]
AV2 Input	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms]
	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
AV3 Input	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms]
	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)

Monitor Output	AUDIO L-R	RCA PIN Type × 2	0.5 V [rms] (high impedance)
	VIDEO	RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
Others	HDMI 1 - 3 Input	TYPE A Connectors	• This TV supports "HDAVI Control 5" function.
	PC Input	HIGH-DENSITY D-SUB 15 PIN	R, G, B / 0.7 V[p-p] (75 Ω) HD, VD / TTL LEVEL 2.0-5.0 V [p-p] (high impedance)
Card Slot		SD Card slot × 1	
Dimension (W x H x D)		1,021 mm × 680 mm × 310 mm (With Pedestal)	
		1,021 mm × 637 mm × 115 mm (TV only)	
Mass		21.0 kg Net (With Pedestal)	
		18.0 kg Net (TV only)	

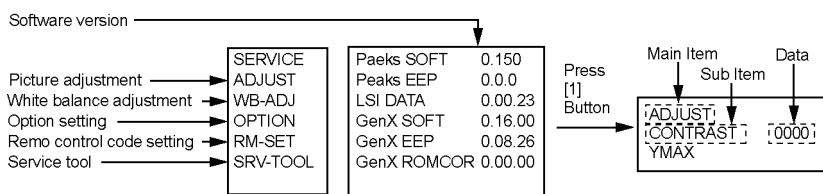
Note

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. 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.

5.1.2. 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

Set timer to 30min, press the 'RECALL' button on the remote control and press '-' vol button on the LCD panel.

- Press button R and G for adjustment.

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/off', then press 'EXIT' to come out.

5.3.3. Hotel Mode

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

Then, the Hotel mode setup menu is displayed.

Hotel Mode	
Hotel Mode	Off
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum Vol Level	100
Button Lock	Off
Remote Lock	Off

Select


 EXIT
 Change
 RETURN

Item	Function
Hotel Mode	Select hotel mode ON/OFF
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : OFF/Analogue TV/Digital TV/AV1/AV2/AV3/PC/HDMI1/HDMI2/HDMI3 • Off: give priority to a last memory. • Selectable input is depend on the model.
Initial POS	Select programme number. Selection : Off/0 to 100 • Off: give priority to a last memory.
Initial VOL level	Adjust the volume when each time power is switched on. Selection/Range : Off/0 to 100 • Off: give priority to a last memory.
Maximum VOL level	Adjust maximum volume. Range : 0 to 100
Button lock	Select local key conditions. Selection : Off/SETUP/MENU/All • Off: altogether valid. • SETUP: only F-key is invalid. (Tuning guide (menu) can not be selected.) • MENU: only F-key is invalid. (only Volume/Mute can be selected.) • ALL: altogether invalid.
Remote lock	Select remote control key conditions. Selection : Off/SETUP/MENU • Off: altogether valid. • SETUP: only Setup menu is invalid. • MENU: Picture/Sound/Setup menu are invalid.

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	
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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:

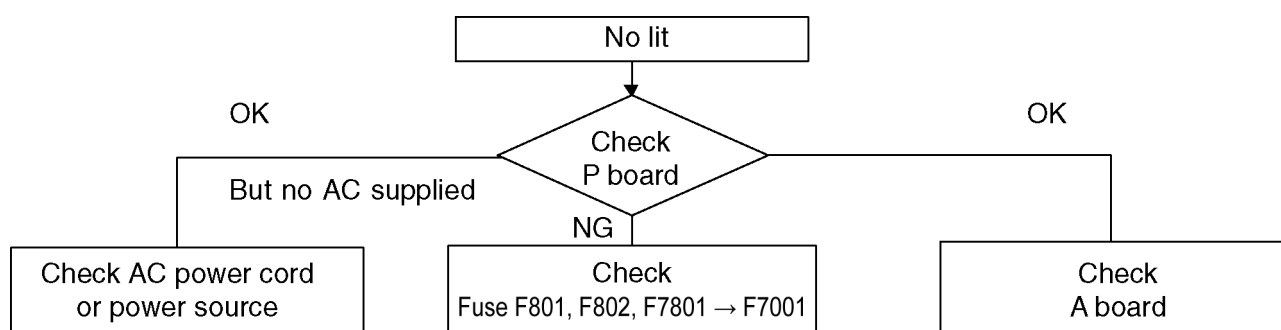
Blinking times	Contents	BOARD
1	Inverter_SOS	P BOARD
2	SUB 1.8V_SOS	A BOARD
3	SUB 1.2V_SOS	A BOARD
4	POWER_SOS	P/A BOARD
5	SUB 5V_SOS	A BOARD
9	TCON_SOS	A BOARD
10	SUB 3.3V_SENSE	A BOARD
11	DCDC_SOS	A BOARD
12	SOS	A BOARD

6.3. No Power

First check point

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

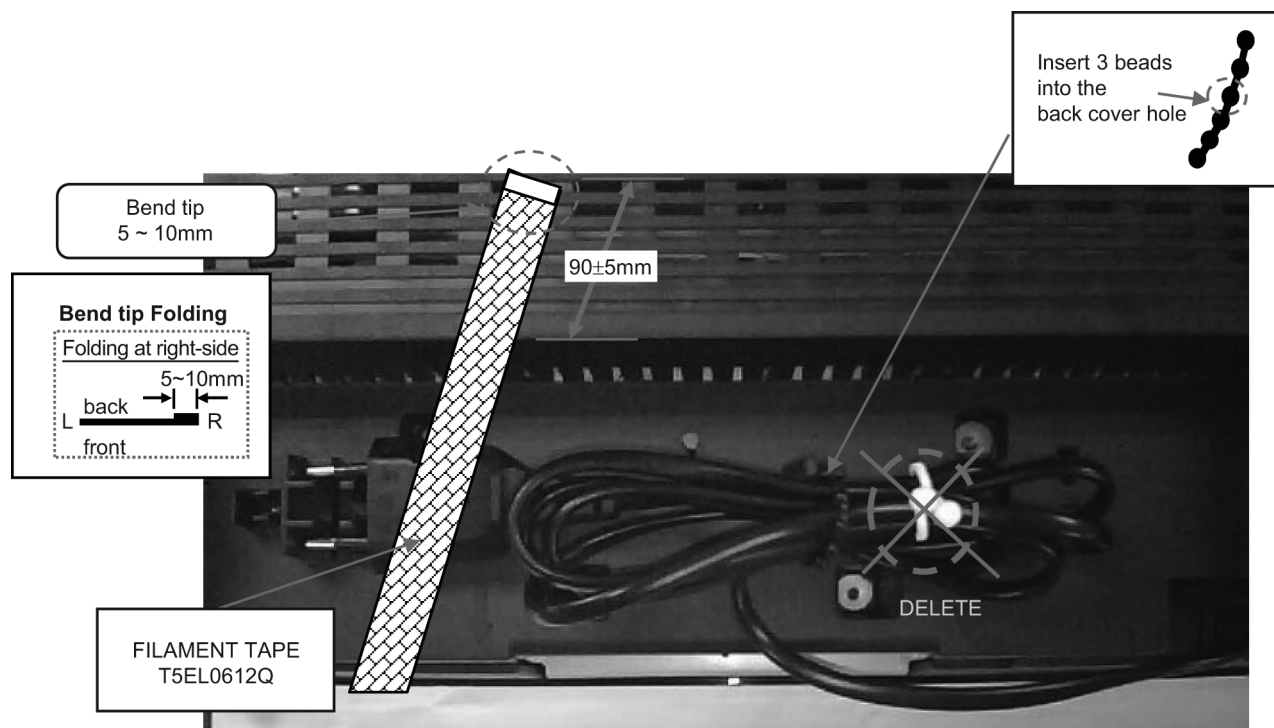
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

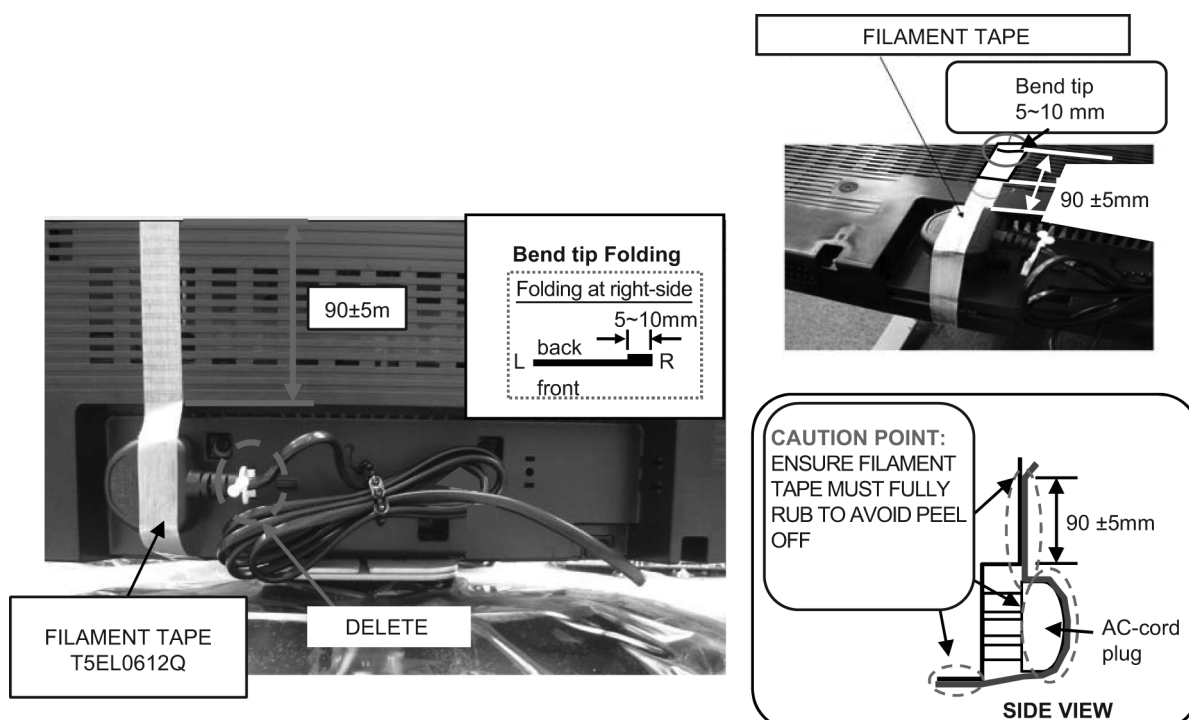
7.1. AC Cord Dressing

1. Insert beads 3pcs. And slice down to lower hole.
2. Stick filament at ac-cord.



Note : Delete clasper add filament tape

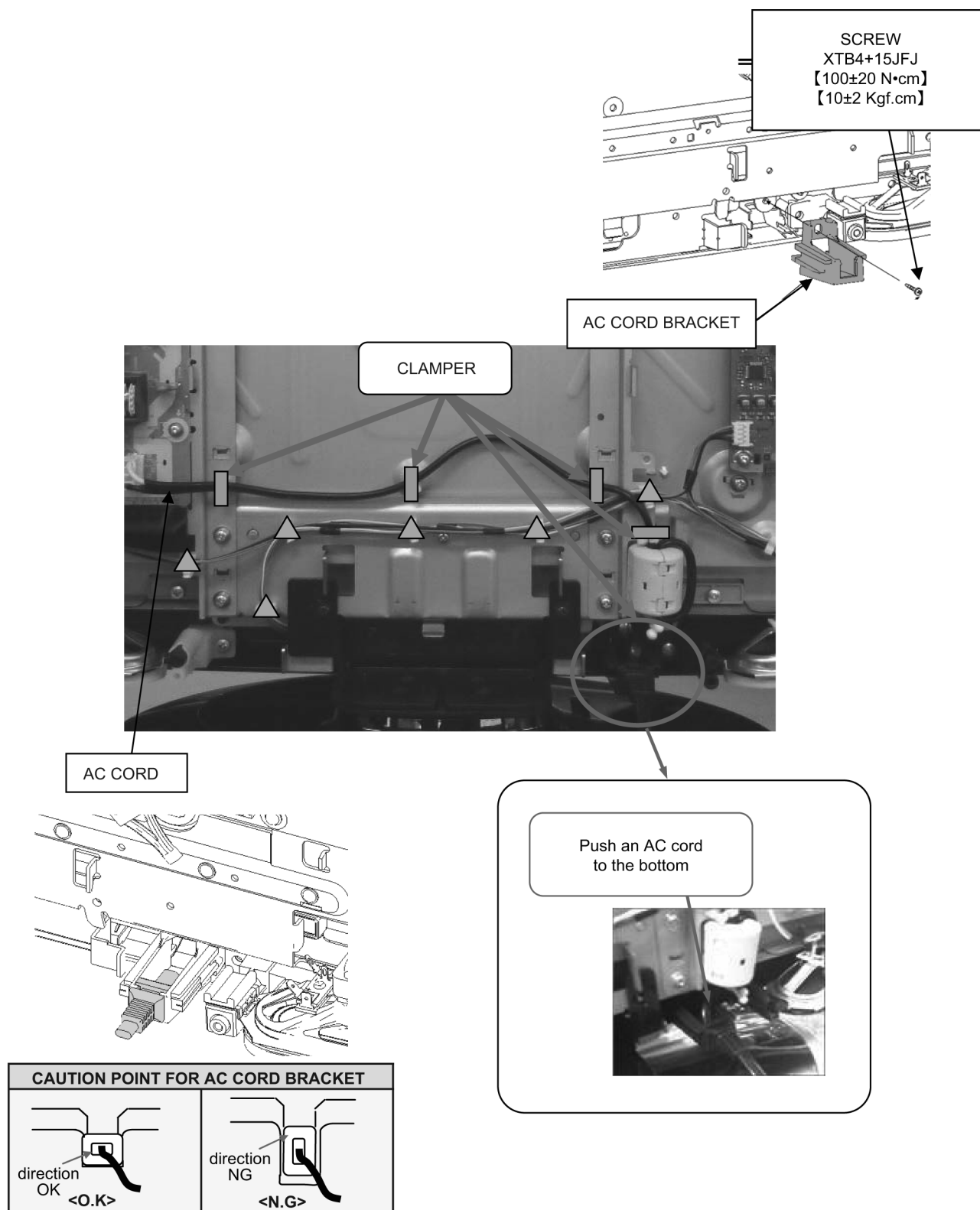
1. Insert beads 3pcs. And slice down to lower hole.
2. Stick the FILAMENT TAPE.



Note : Delete clasper add filament tape

7.2. AC Cord 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.

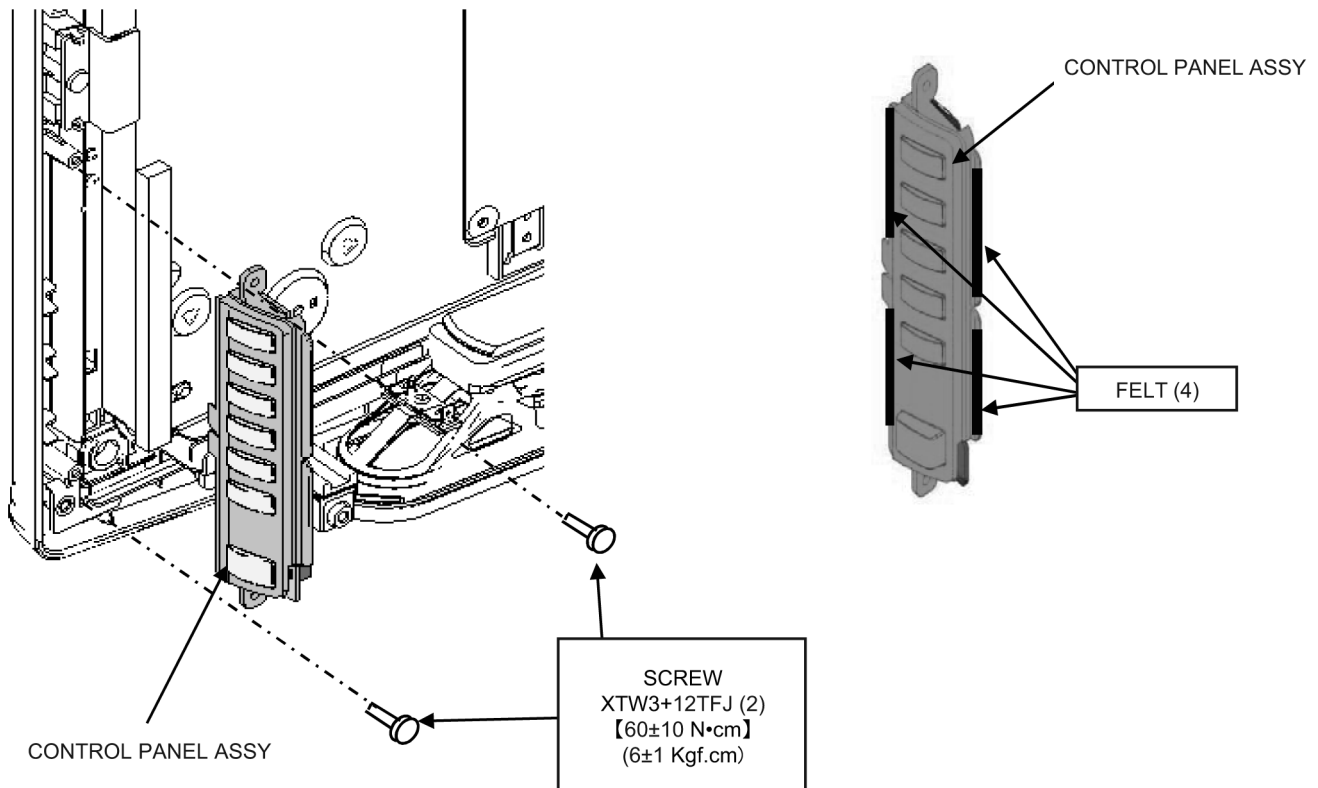


7.3. Control Panel Assembly & Clamper Installation

1. Put control panel Assy on the cabinet.
2. Fix the control panel with screws.

ASSEMBLY CONTENTS

- ① Stick the FELT at Control Panel Assembly



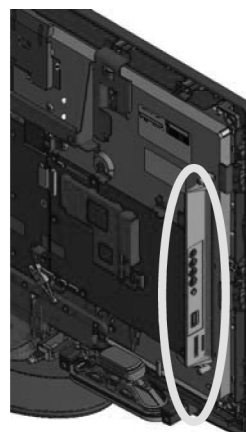
Fix clamper at bottom mtg.



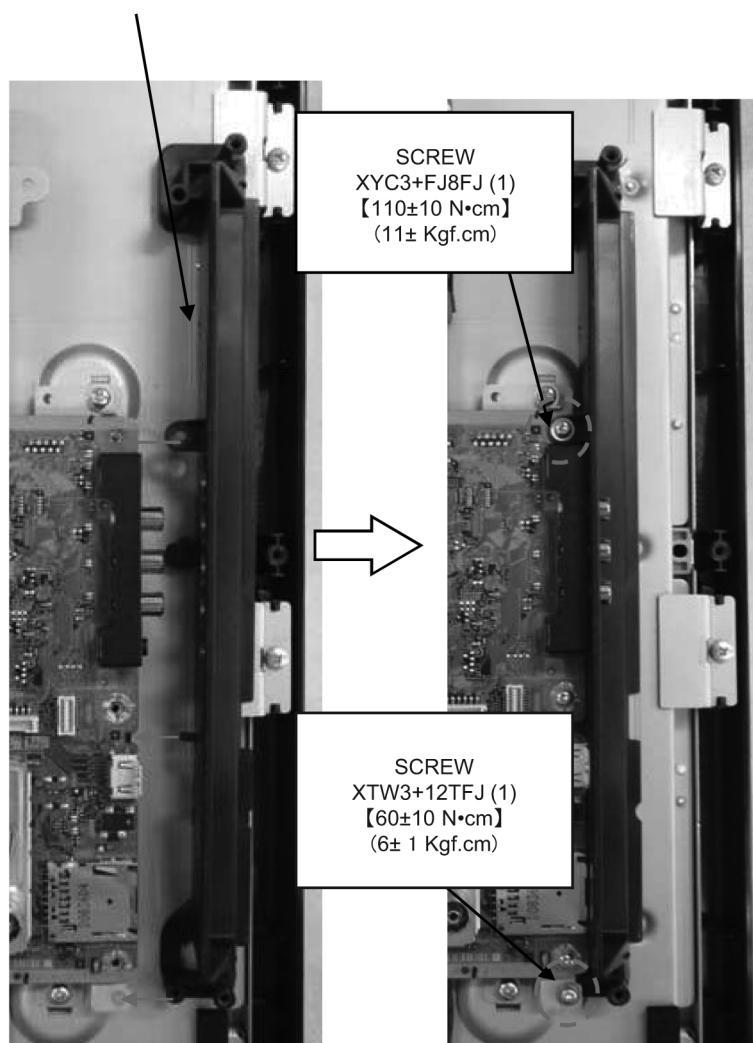
- CLAMPER = TMME332 (4 pcs)
- ◡ CLAMPER = TMME381 (1)
- ◊ CLAMPER = TMME7473-1 (2)

7.4. Side AV Preparation and Installation

1. Stick the side av indi. Sheet and felt on the side av bracket.
2. Insert the SIDE AV BRACKET from the side position of the A-PCB.
3. Fix the SCREW with A-PB-MTG METAL.

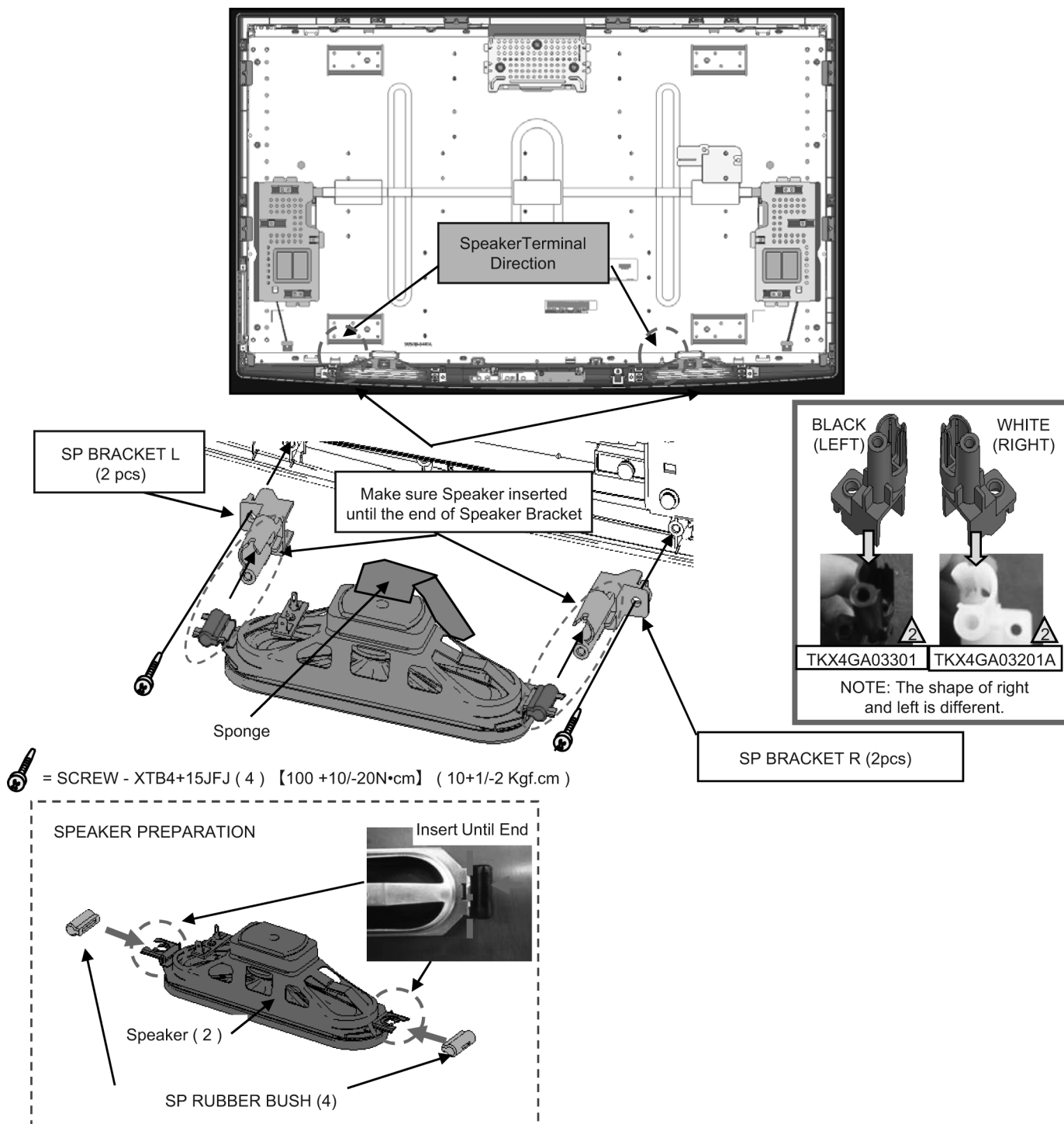


SIDE AV BRACKET ASSY



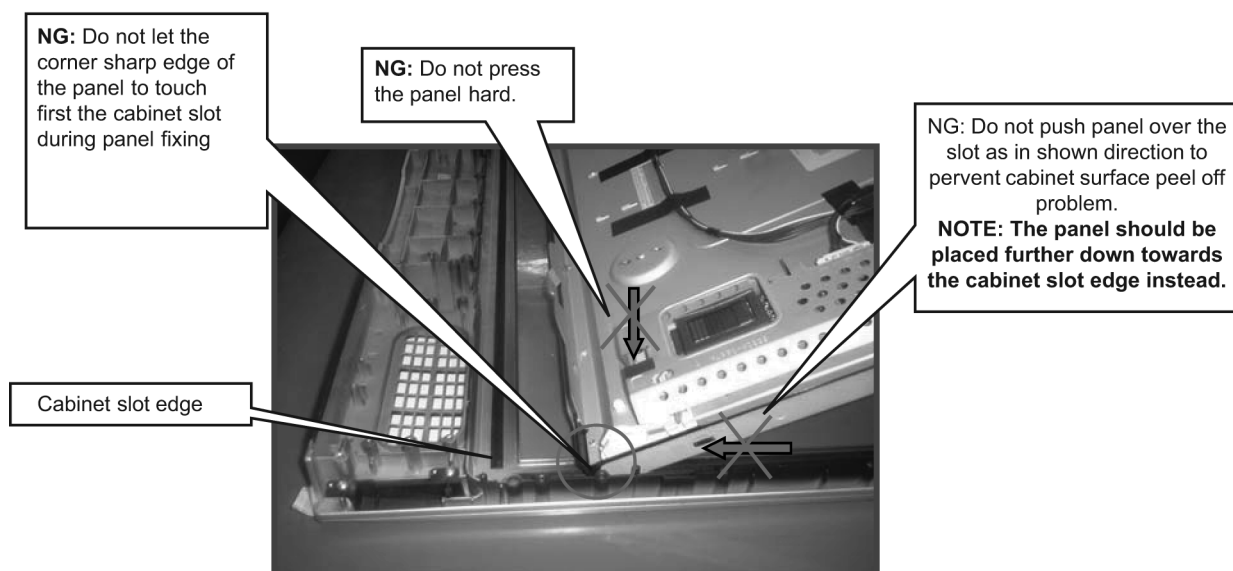
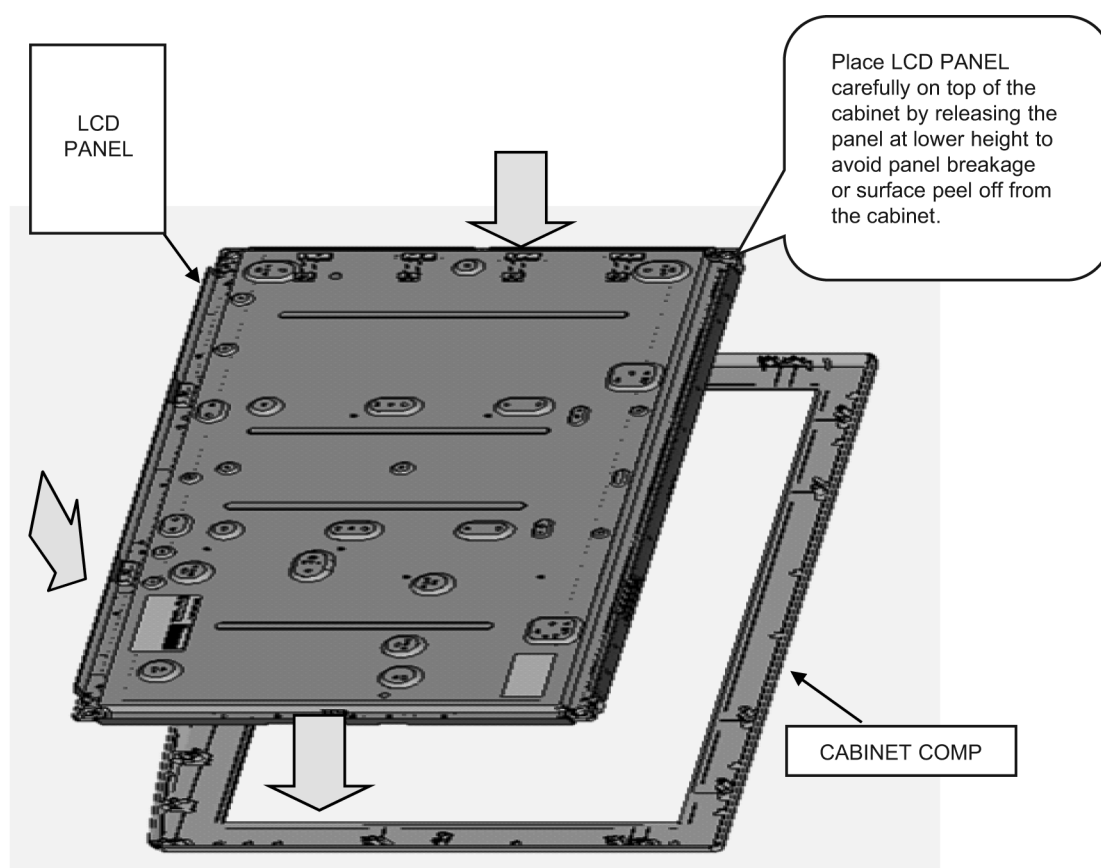
7.5. Speaker Preparation & Installation

1. Stick the SP sponge.
2. SP bracket put on cabinet.
3. Fix them with screws.
4. Insert the SP rubber bush into the SP unit.
5. Stick sponge at speaker.
6. Insert the SP unit to SP bracket.



7.6. LCD Panel fixing & handling method

1. Place down the cabinet as shown below.
2. Fix LCD panel into the cabinet by taking below precautions.

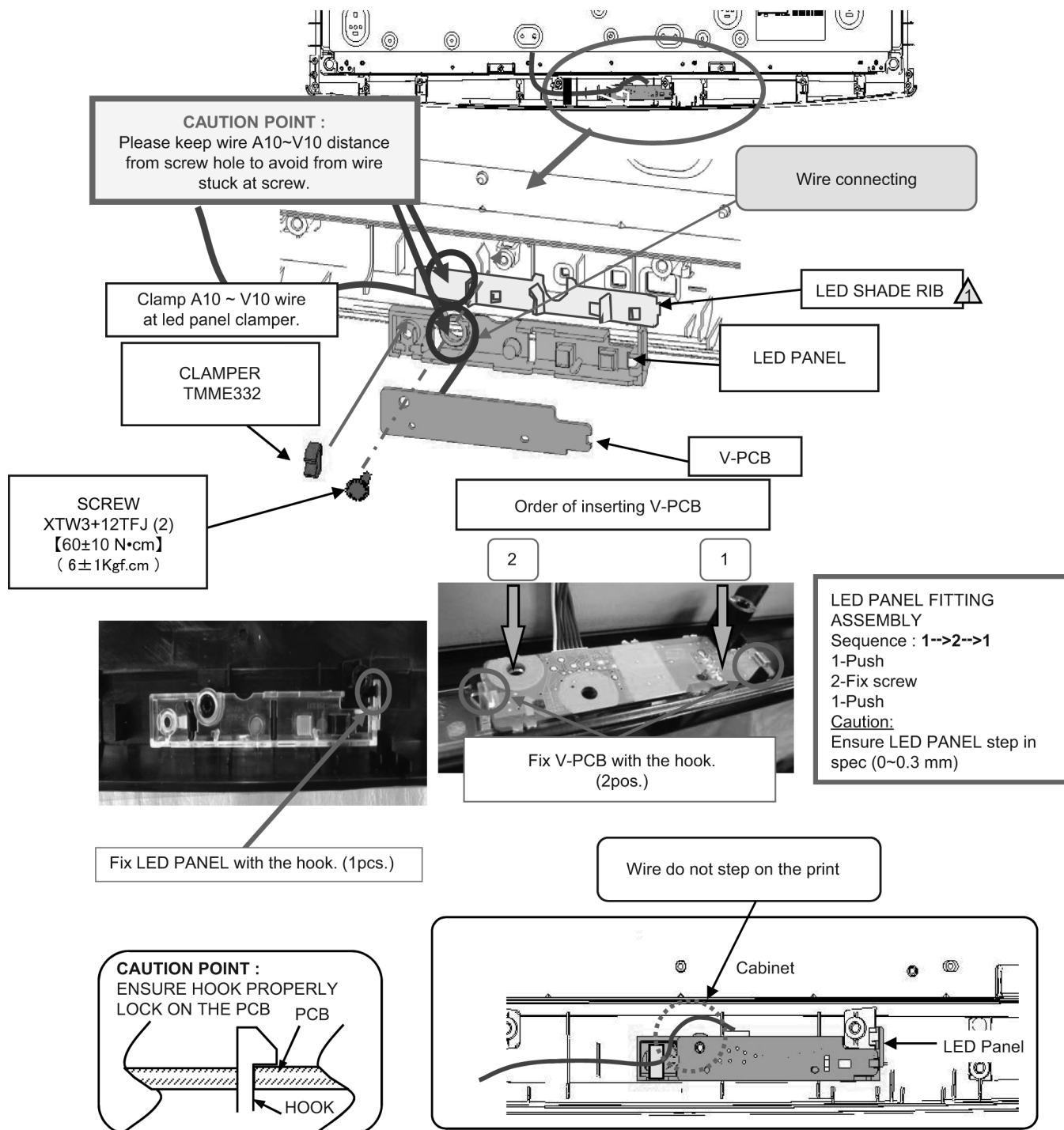


Other general precautions

1. Do not press panel surface to avoid blue spot on the panel display.
2. Do not use hard cloth or rub the surface too hard. This may cause scratches on the surface.
3. Take care not to subject the TV's surface to water or detergent. Any liquid (including pets urine) if enters the product could lead to TV failure.
4. Take care not to subject the surface to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
5. The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch with your fingernail or other hard objects.

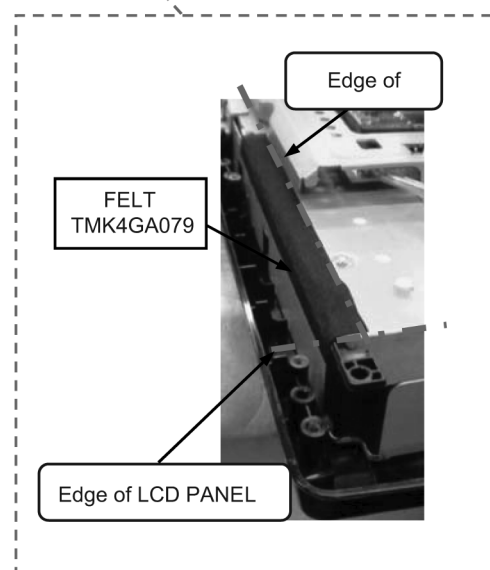
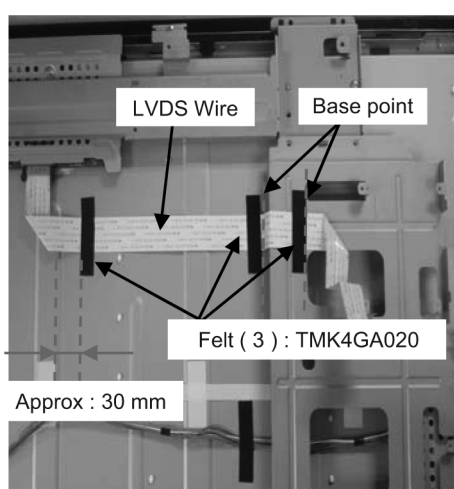
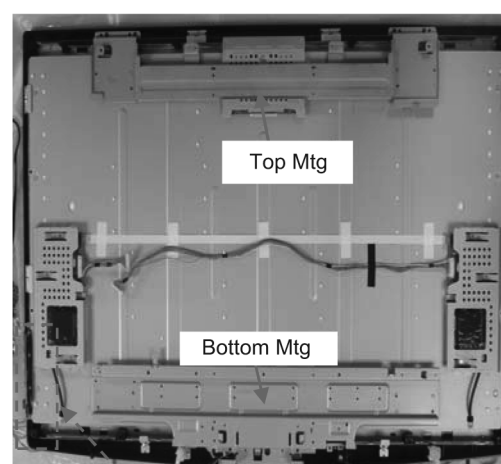
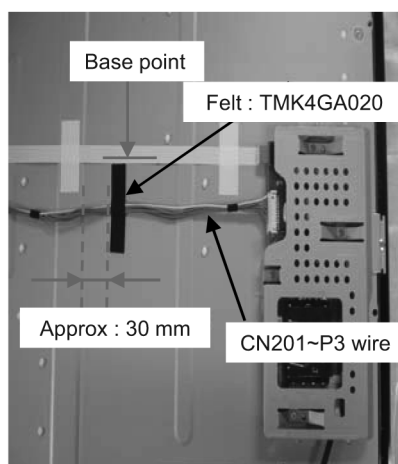
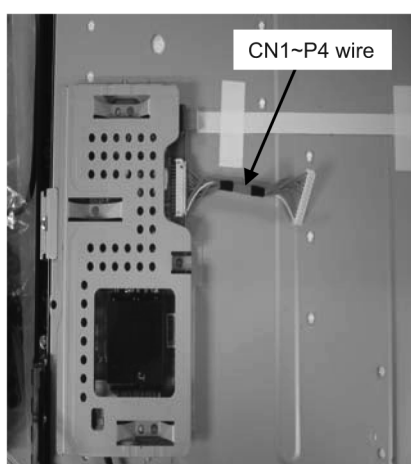
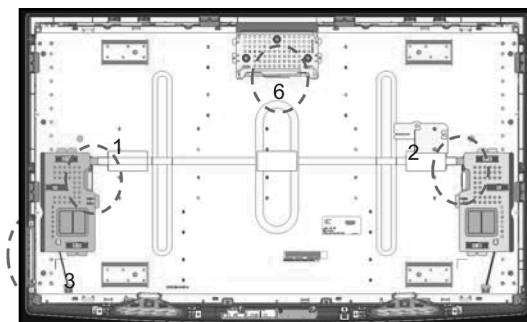
7.7. LED Panel Installation

1. Put LED SHADE RIB to CABINET.
2. Fix LED PANEL on CABINET.
3. Wire connecting (V10).
4. Put V-PCB on CABINET.
5. Fix them with SCREW.
6. Insert the CLAMPER.



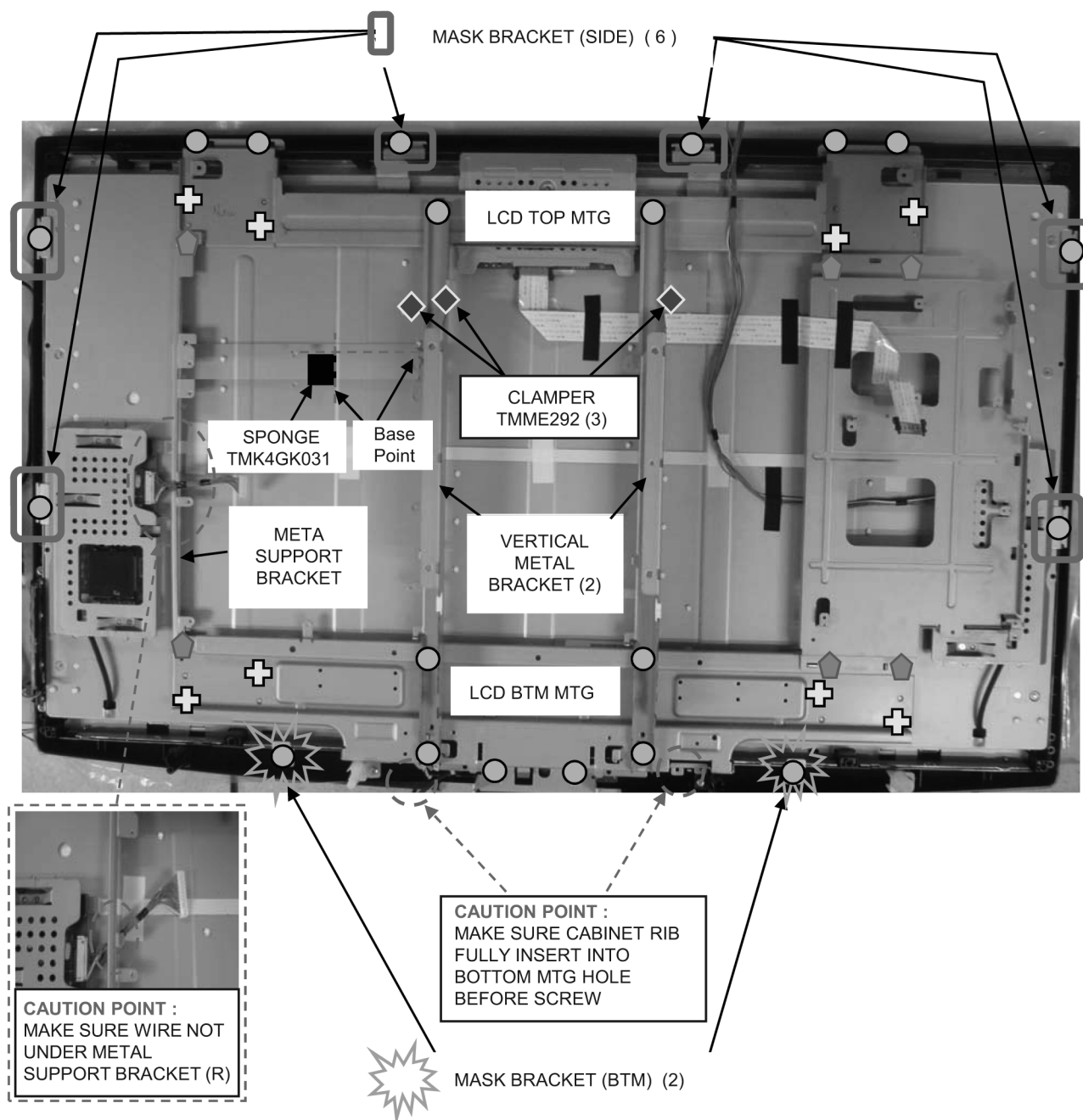
7.8. Felt Sticking at LVDS Wire

1. Insert CN1~P4 wire to inverter.
2. Insert CN201~P3 wire to inverter and stick felt.
3. Stick felt at LCD panel (Bottom left side).
4. Fix Top mtg and Bottom Mtg.
5. Fix Chassis frame bracket at Top Mtg and Bottom Mtg.
6. Insert LVDS wire to inverter and stick 3 felt.



7.9. LCD Bracket and MTG Installation

1. Fix MASK BRACKET (SIDE/TOP/BTM) on the CABINET.
2. Fix Vertical Metal Bracket, Metal Support Bracket (R).
3. Fix them with SCREW.
4. Fix Clamper at Vertical Metal Bracket.



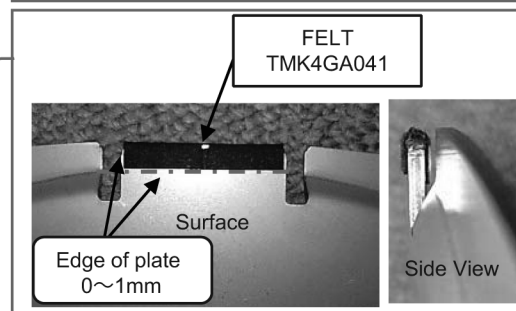
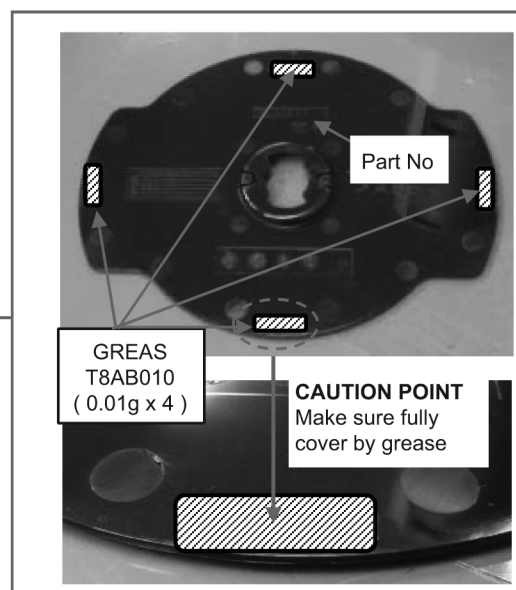
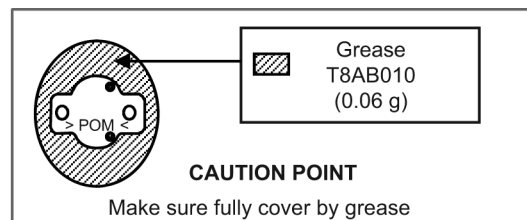
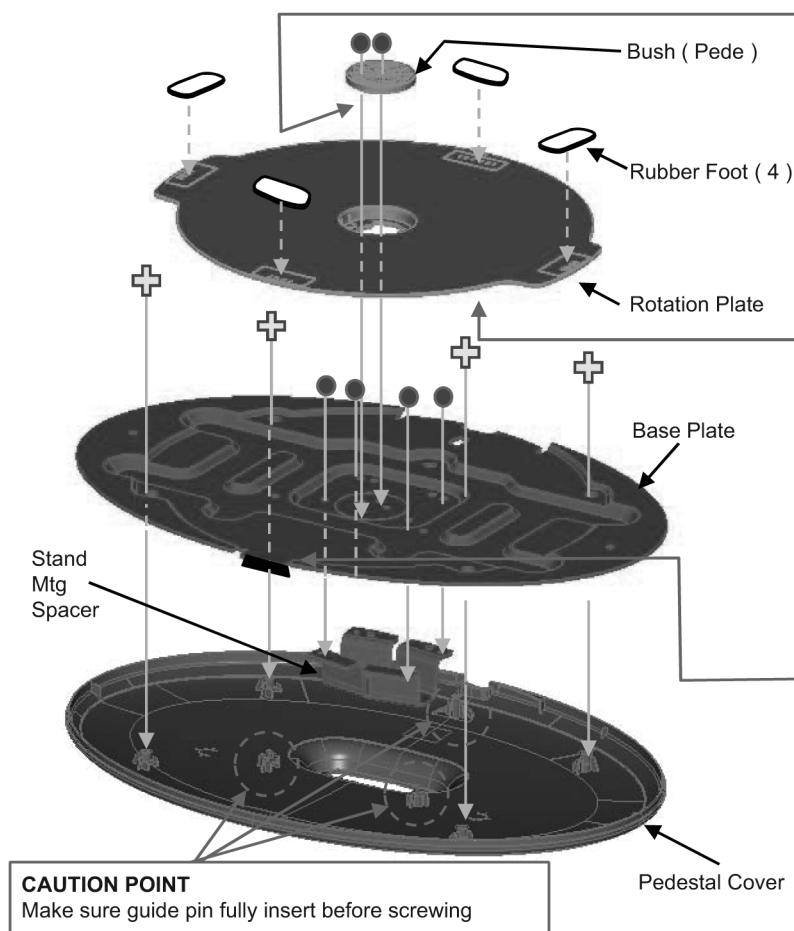
● = SCREW - XTB4+15JFJ (20) 【110 + 20/-10N•cm】 (11 + 2/-1 Kgf.cm)

⊕ = SCREW - THE4GJ001J (8) 【130 ± 10N•cm】 (13 ± 1Kgf.cm)

◆ = SCREW - XTW3+8TFJ (6) 【110 ±10N•cm】 (11 ± 1Kgf.cm)

7.10. Pedestal Assembly 1

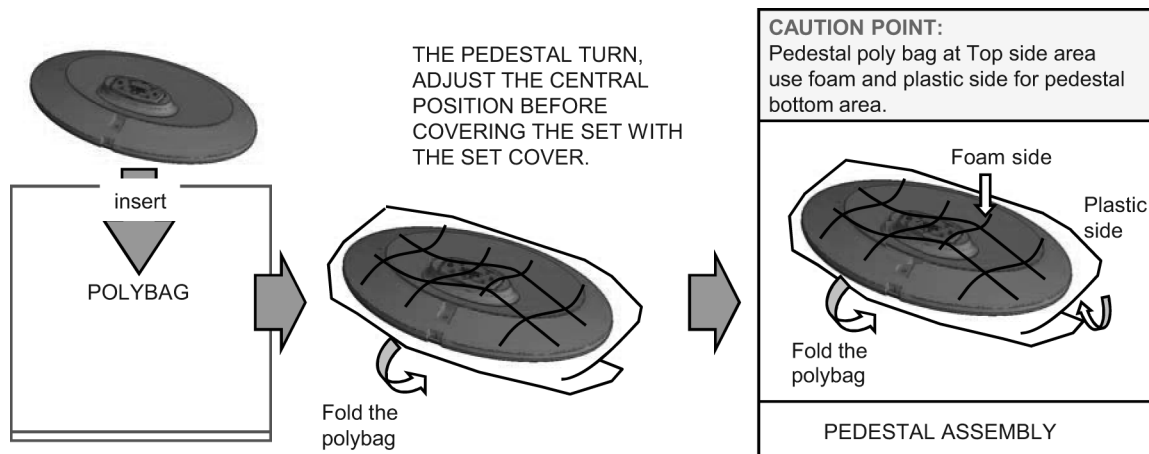
1. Fix stand mtg spacer at pedestal cover.
2. Stick felt at front base plate.
3. Fix base plate at stand mtg and pedestal cover and screw.
4. Stick rubber foot at rotation plate.
5. Apply grease at rotation plate and bush (pede).
6. Fix rotation plate and bush (pede) at base plate and screw.



✚ = SCREW - XTS4+10GFJ (4) 【80 ± 20 N•cm】 (8 ± 2 Kgf.cm)

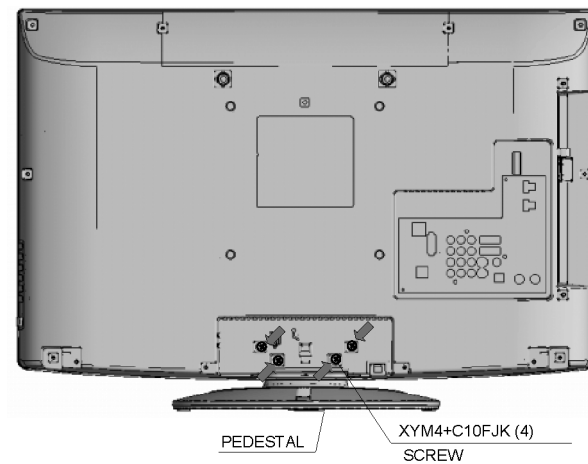
● = SCREW - XTM4+C10JFK (6) 【130 ± 20 N•cm】 (13 ± 2 Kgf.cm)

Put Pedestal Assembly into polybag and fold properly



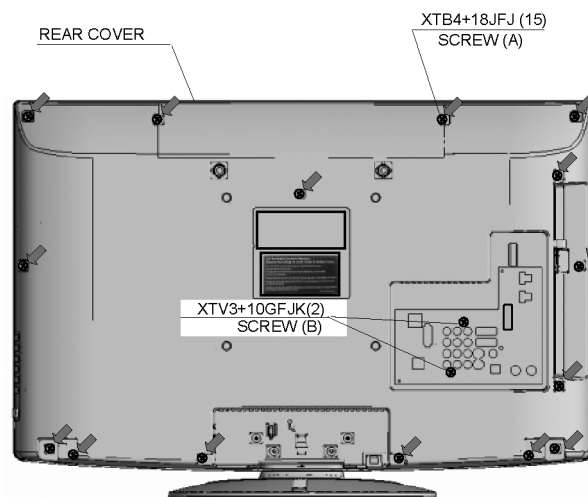
7.11. Pedestal Assembly 2

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



7.12. Rear cover

1. Remove the 15 screws (A).
2. Remove the 2 screws (B),
3. Remove the rear cover.



8 Measurements and Adjustments

8.1. Voltage chart of A-board

Check voltage as follows at Reception state

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

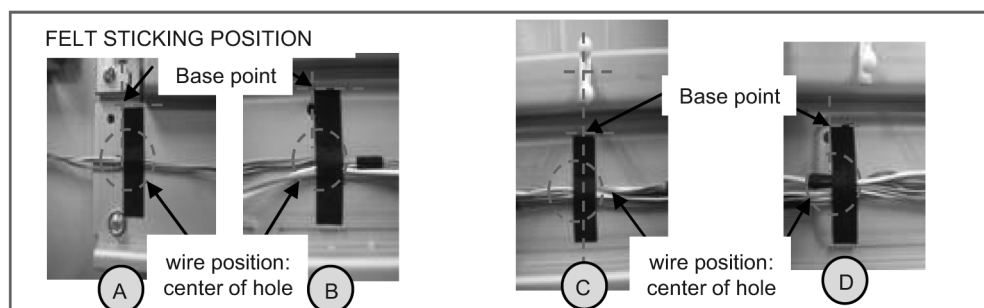
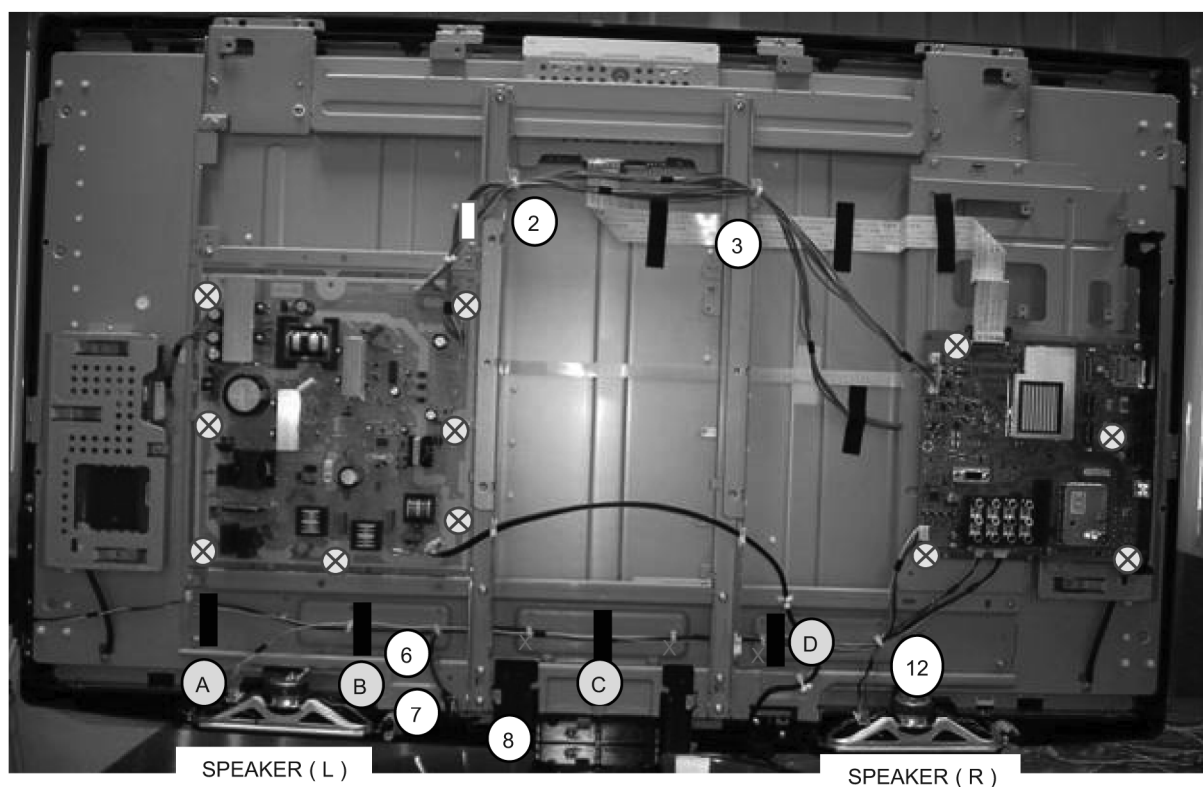
8.2. Voltage chart of P-board

VOLTAGE	TEST POINT	SPECIFICATION (Reception state)	TEST POINT
P24V	TP7503	$24 \pm 1.2 \text{ V}$	J107
17V	TP7502	$18 \pm 2 \text{ V}$	D7501K
DTV12V	TP7501	$12.2 \pm 0.6 \text{ V}$	J104
TUNER6V	TP7601	$6.1 \pm 0.3 \text{ V}$	J94
DC390V	TP7201	$390 \pm 10 \text{ V}$	J260



10 Wiring Connection Diagram

1. Fix PCB at chassis frame and mtg and screw.
2. Wiring No.1~No.6.
3. Remove dust of terminal of LVDS and PB connector. (by ion blow)



⊗ = SCREW - XYC3+FJ8FJ (11) 【110 ± 10 N・cm】 (11 ± 1 Kgf.cm)

Wire		Clamper										
									FELT			
		2	3	6	7	8	12	13	A	B	C	D
No.1	A10 - V10			●	●	●	●				●	●
No.2	A04 - K01			●			●		●	●	●	●
No.3	A11 - SP (R)						●					
No.4	A11 - SP (L)			●			●			●	●	●
No.5	INV (CN 201) - P3	●	●					●				
No.6	A3 - P2	●	●					●				

11 Schematic Diagram

11.1. Schematic Diagram Notes

Notes:

1. **Resistor**
Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
Unit of capacitance is 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:

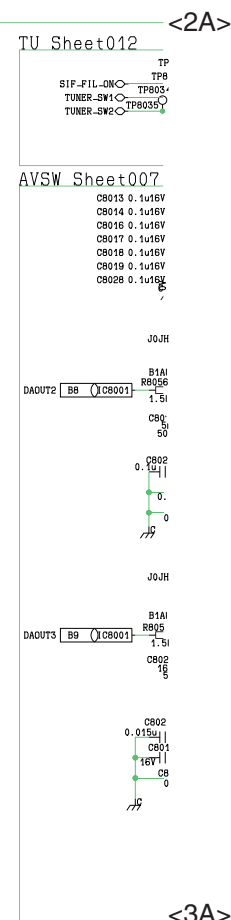
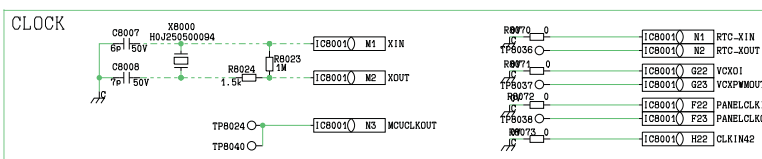
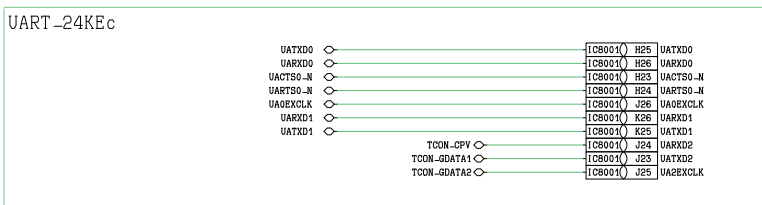
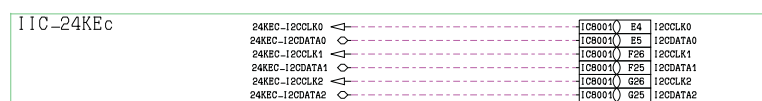
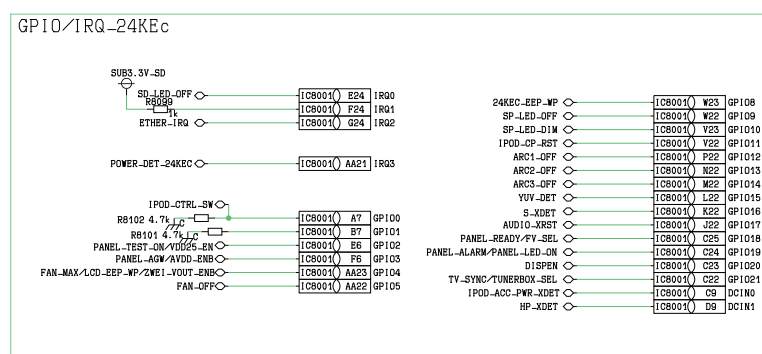
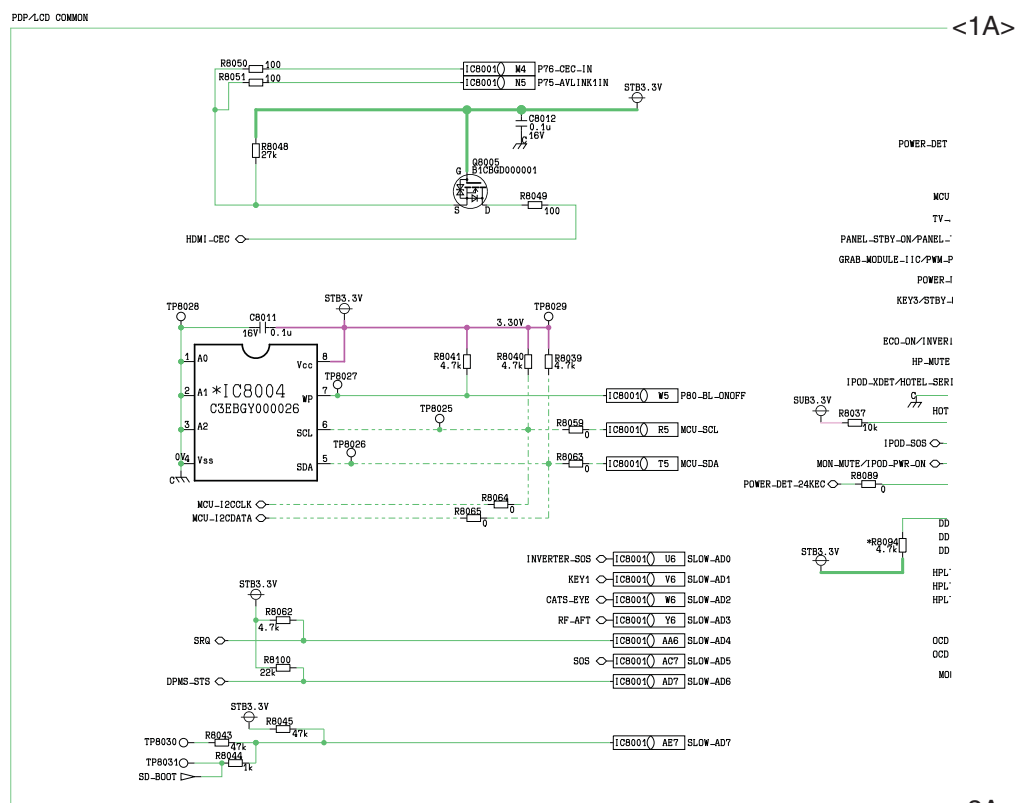
Power Source	AC110-127V, 60Hz
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇔
9. This schematic diagram is the latest at the 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.

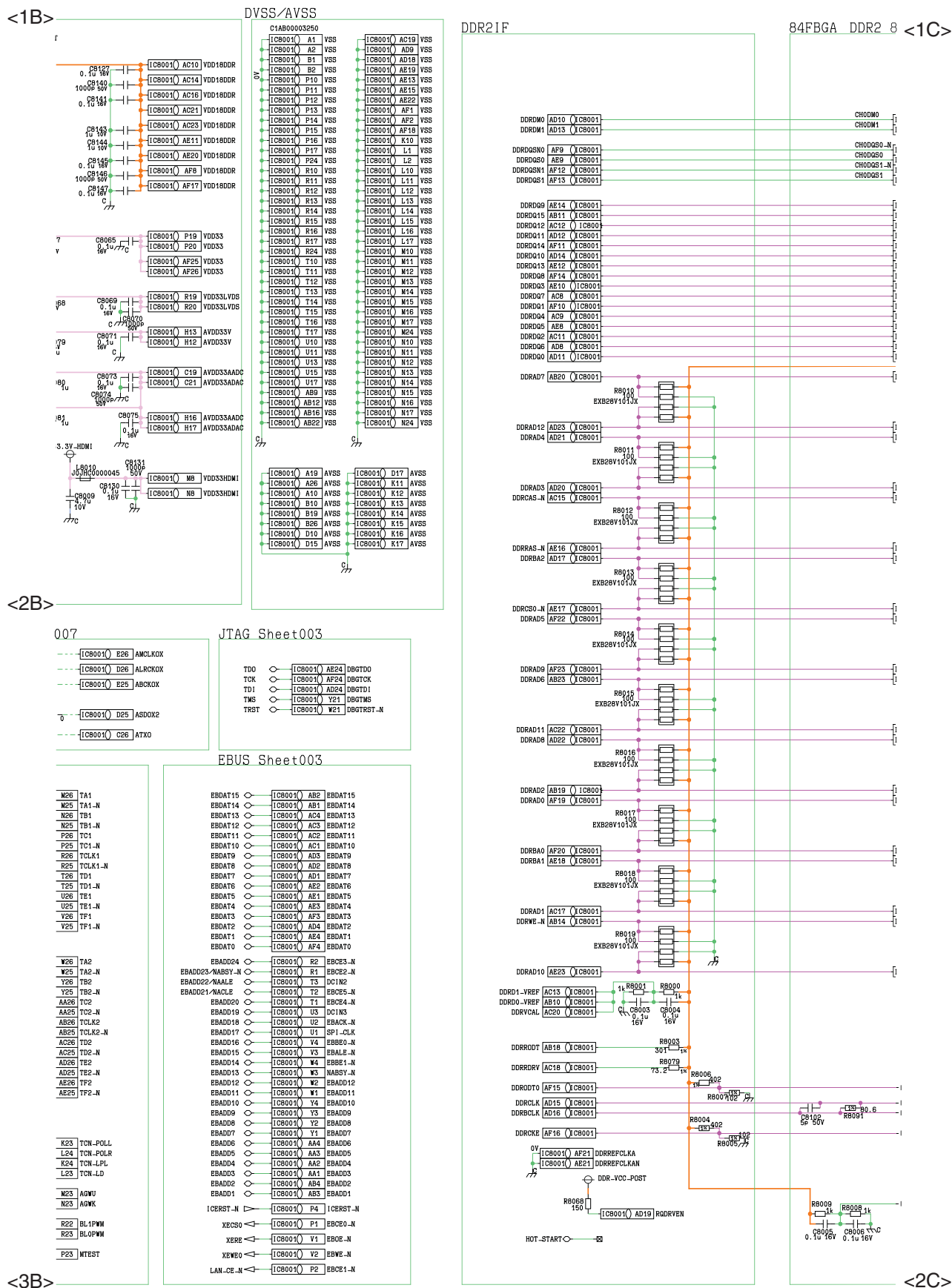
11.2. A Board

11.2.1. A Board - Sheet : 002 (1 / 4)



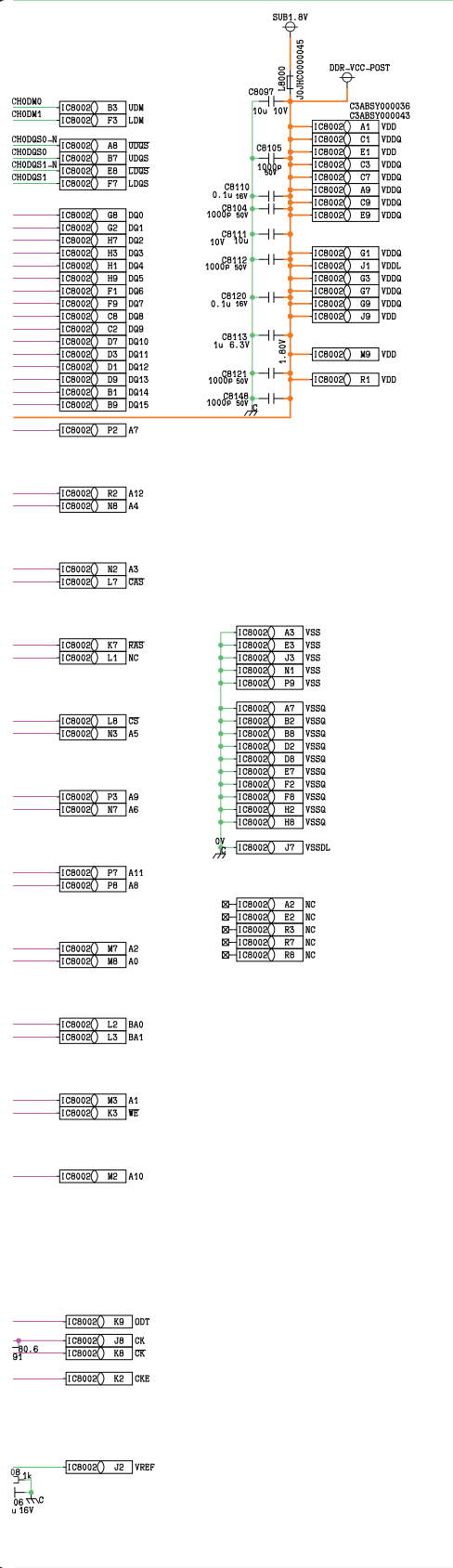


11.2.3. A Board - Sheet : 002 (3 / 4)



11.2.4. A Board - Sheet : 002 (4 / 4)

<1C> DR2 800Mz x 16bit

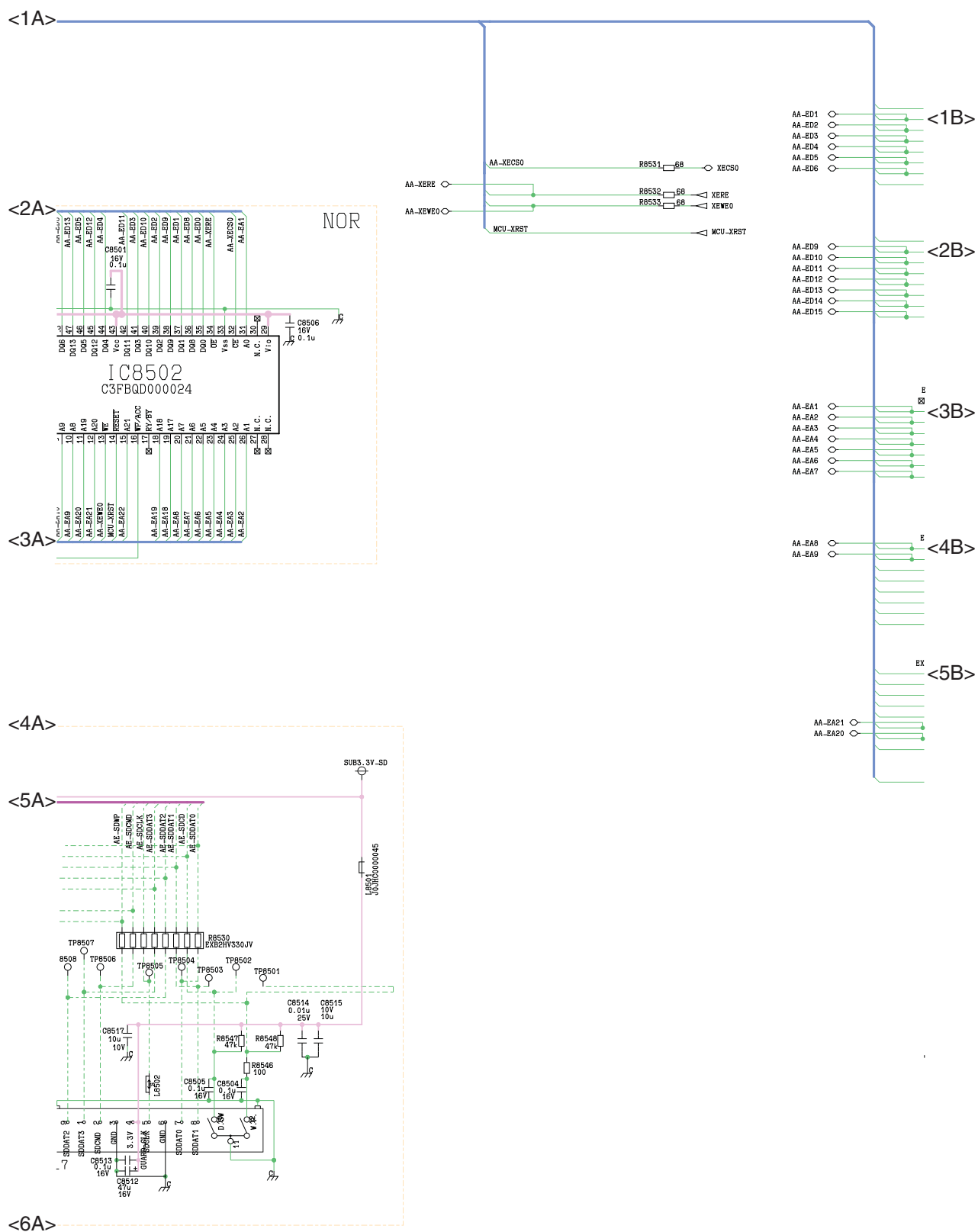


SHEET 002
Title-TCON

<2C>

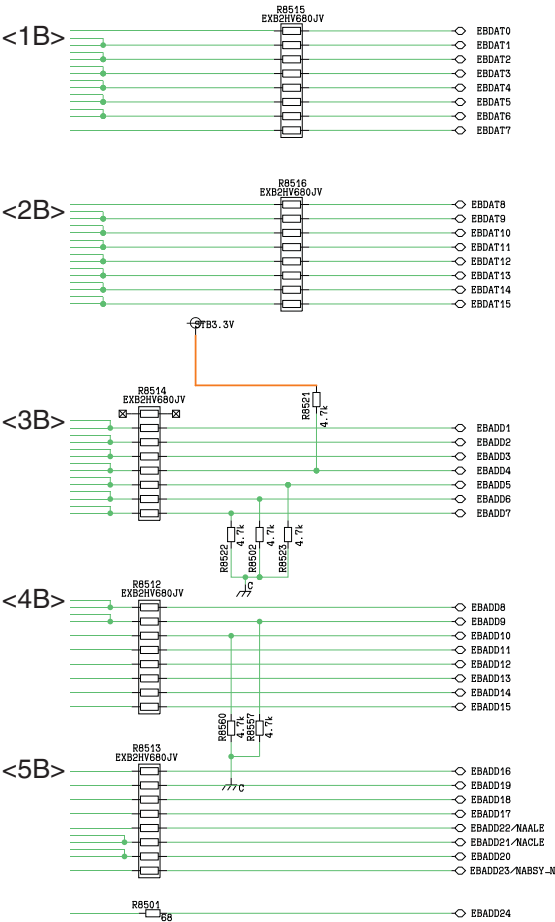


11.2.6. A Board - Sheet : 003 (2 / 3)



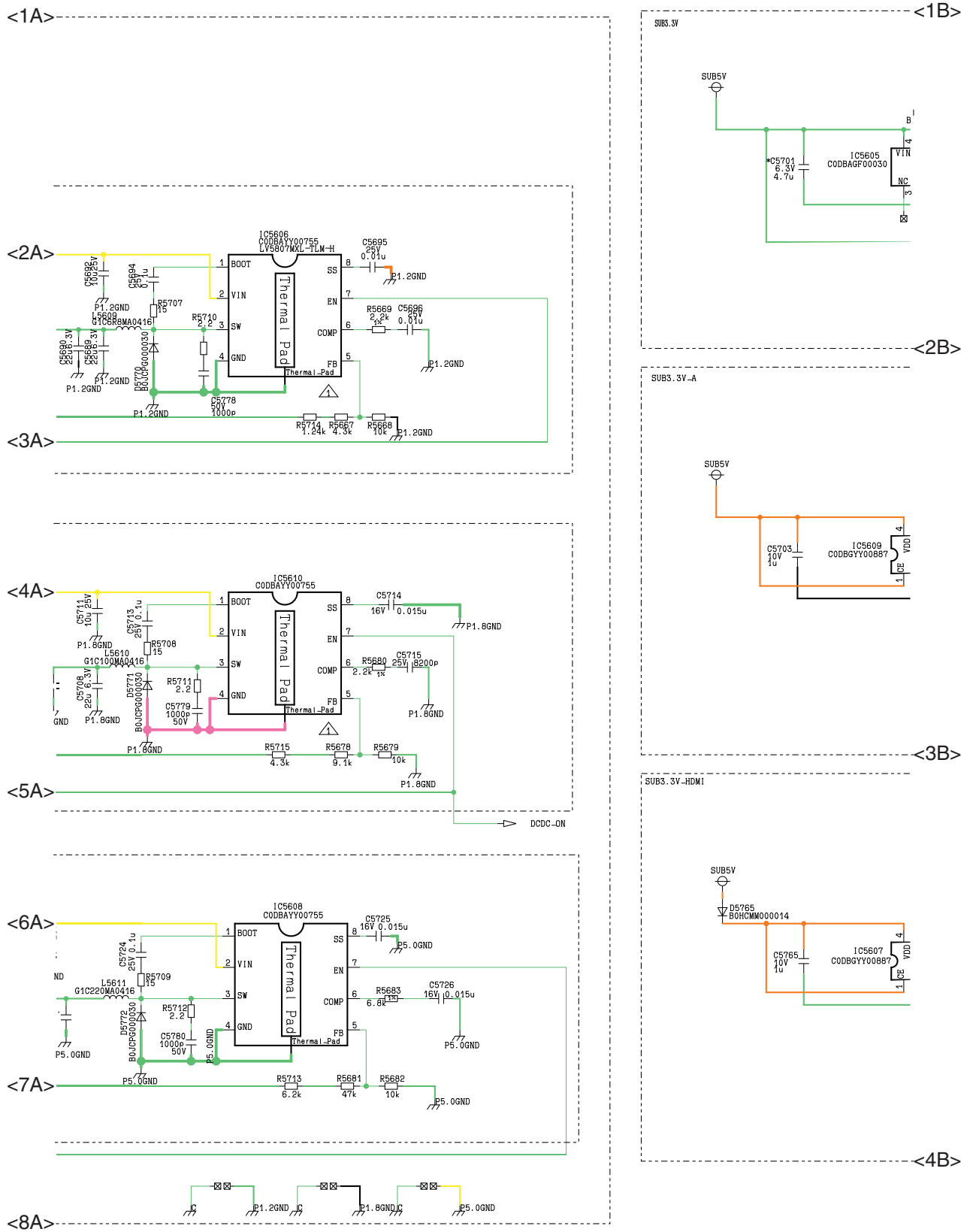
11.2.7. A Board - Sheet : 003 (3 / 3)

SHEET 003



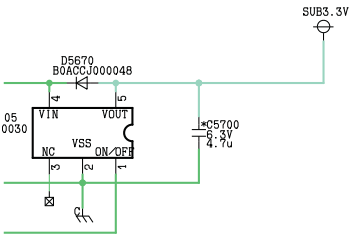


11.2.9. A Board - Sheet : 005 (2 / 3)



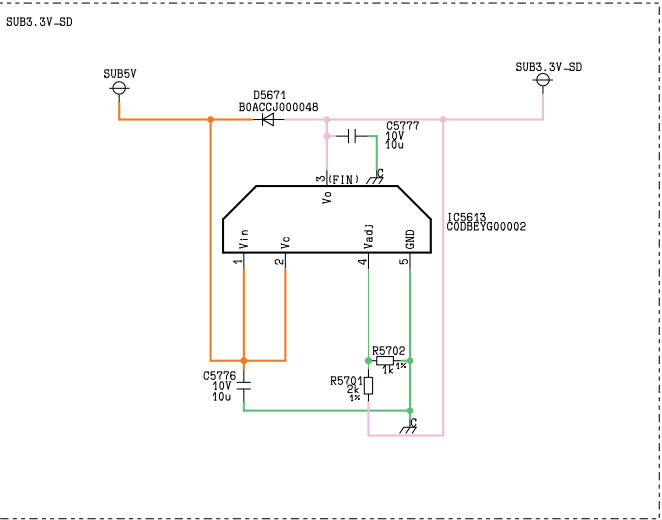
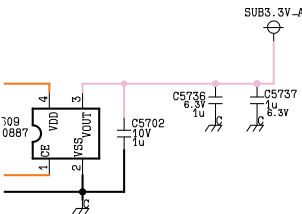
11.2.10. A Board - Sheet : 005 (3 / 3)

<1B>

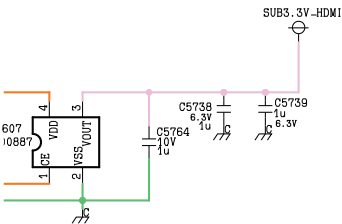


SHEET 005

<2B>



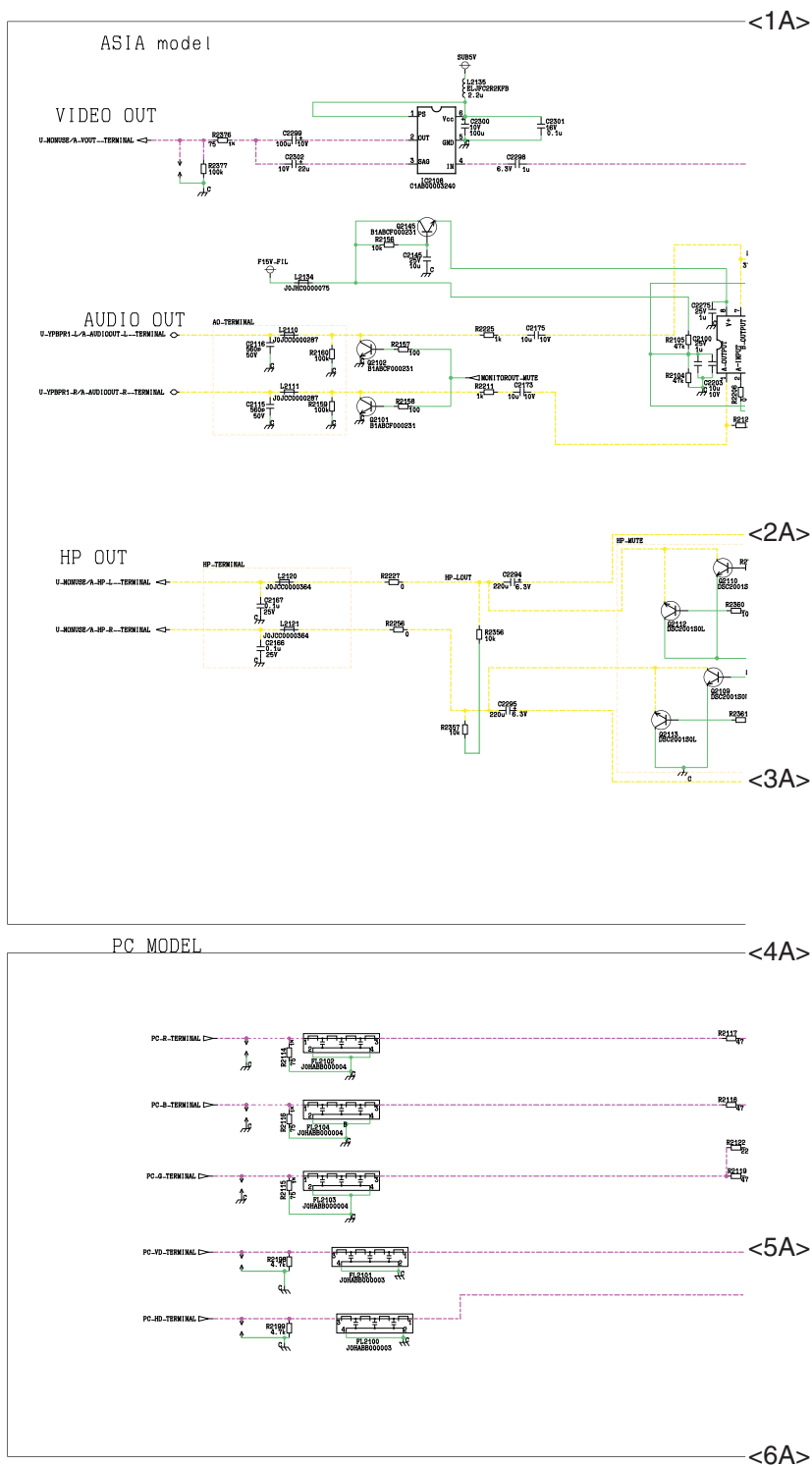
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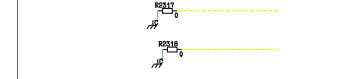
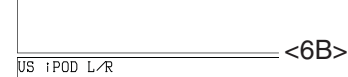
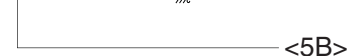
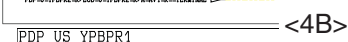
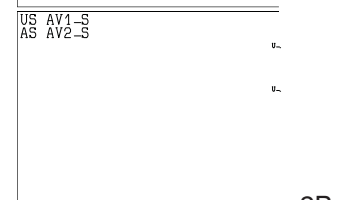
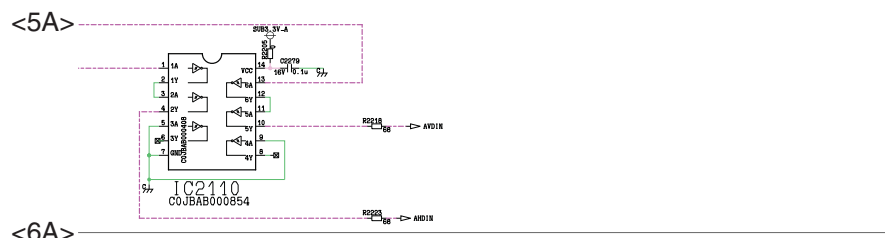
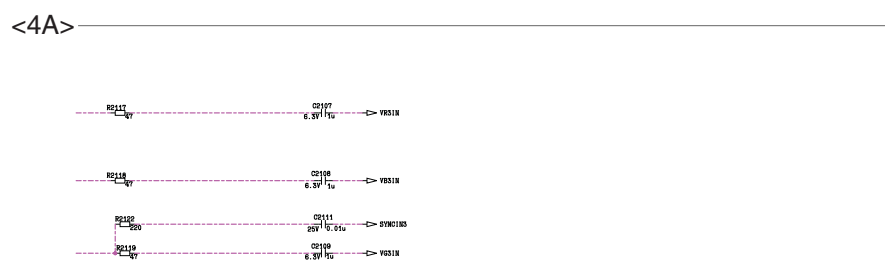


<4B>

11.2.11. A Board - Sheet : 007 (1 / 4)

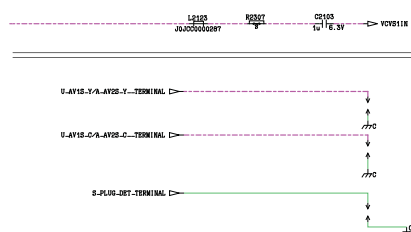
PDP/LCD COMMON



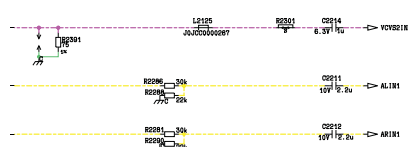


11.2.13. A Board - Sheet : 007 (3 / 4)

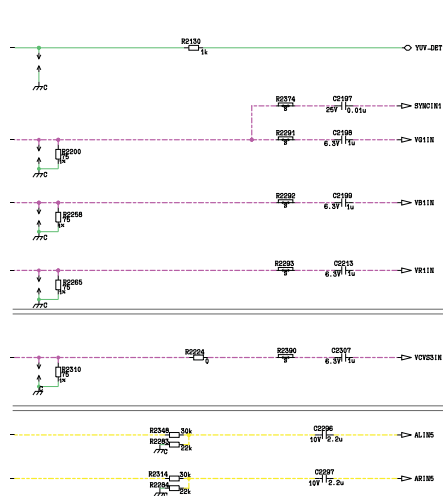
<1B>



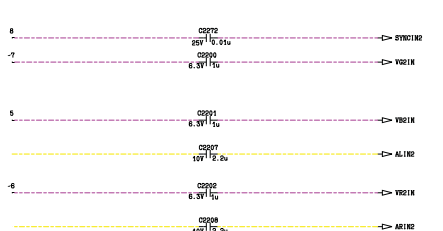
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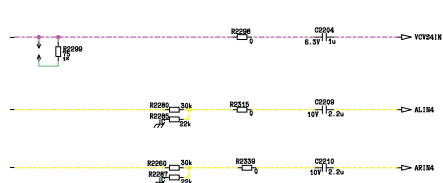
<3B>



<4B>



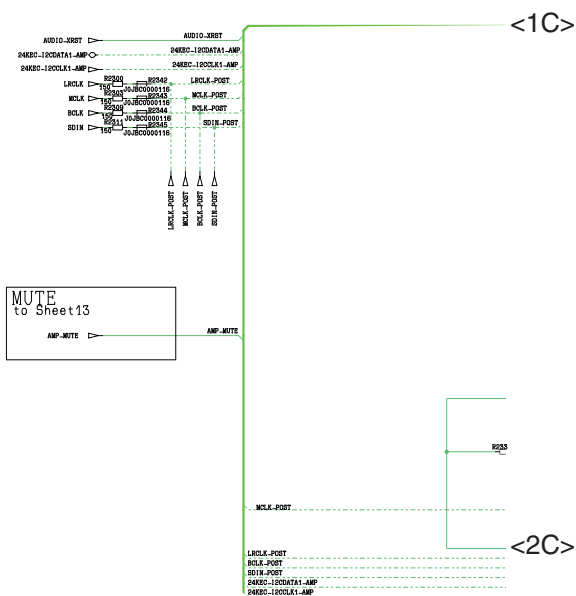
<5B>



<6B>

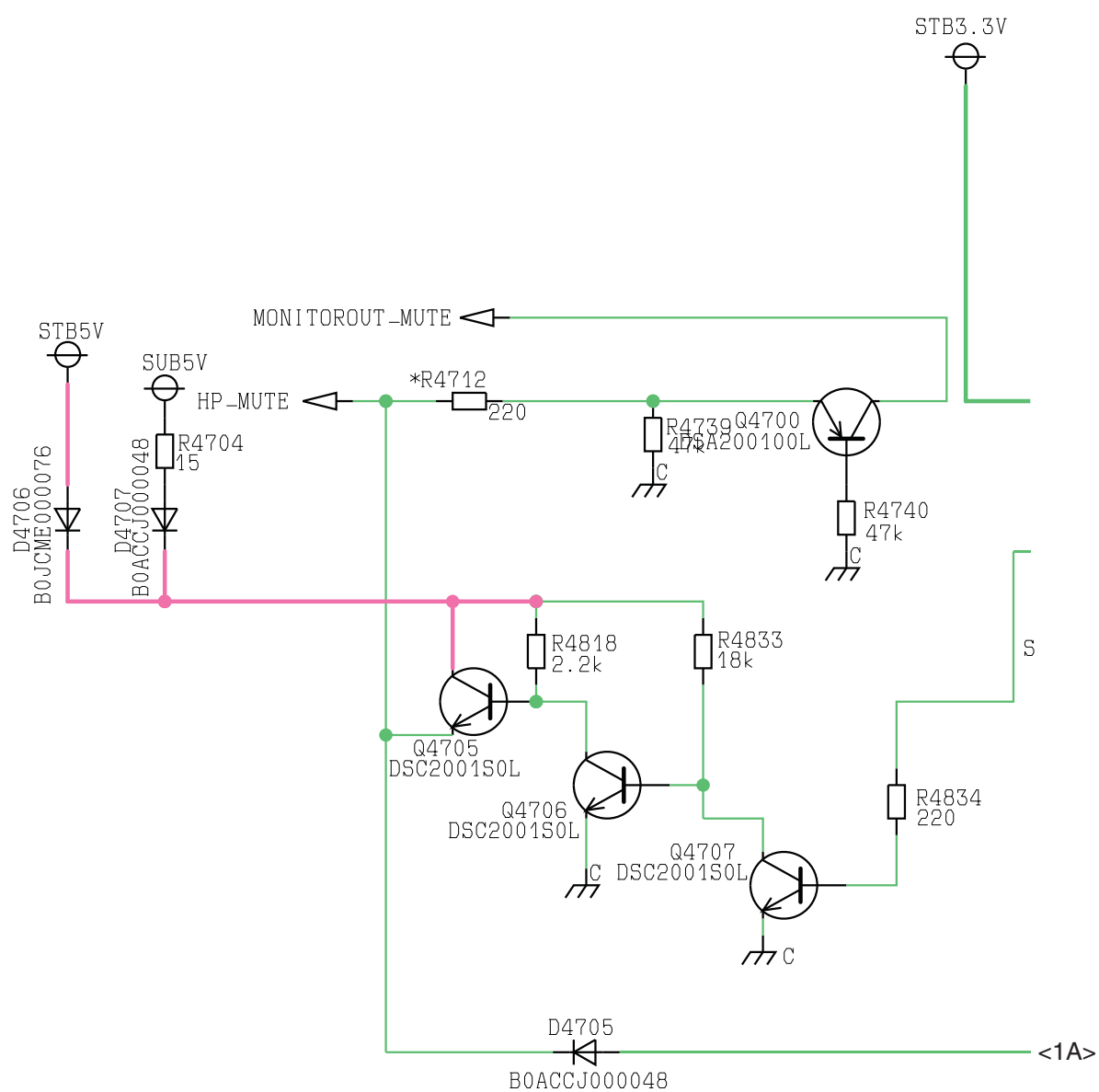


<7B>



<2C>

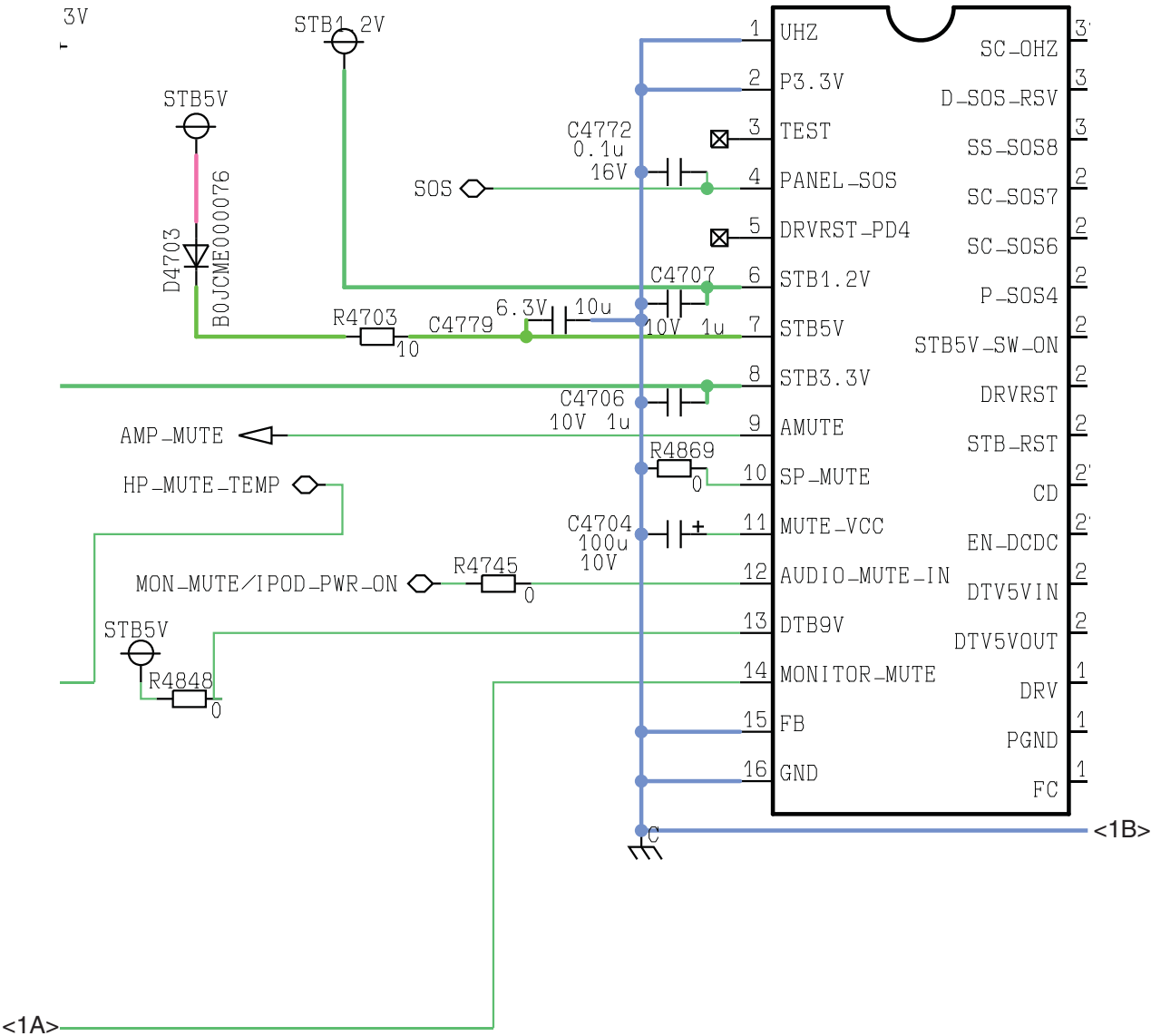
11.2.15. A Board - Sheet : 009 (1 / 3)



11.2.16. A Board - Sheet : 009 (2 / 3)

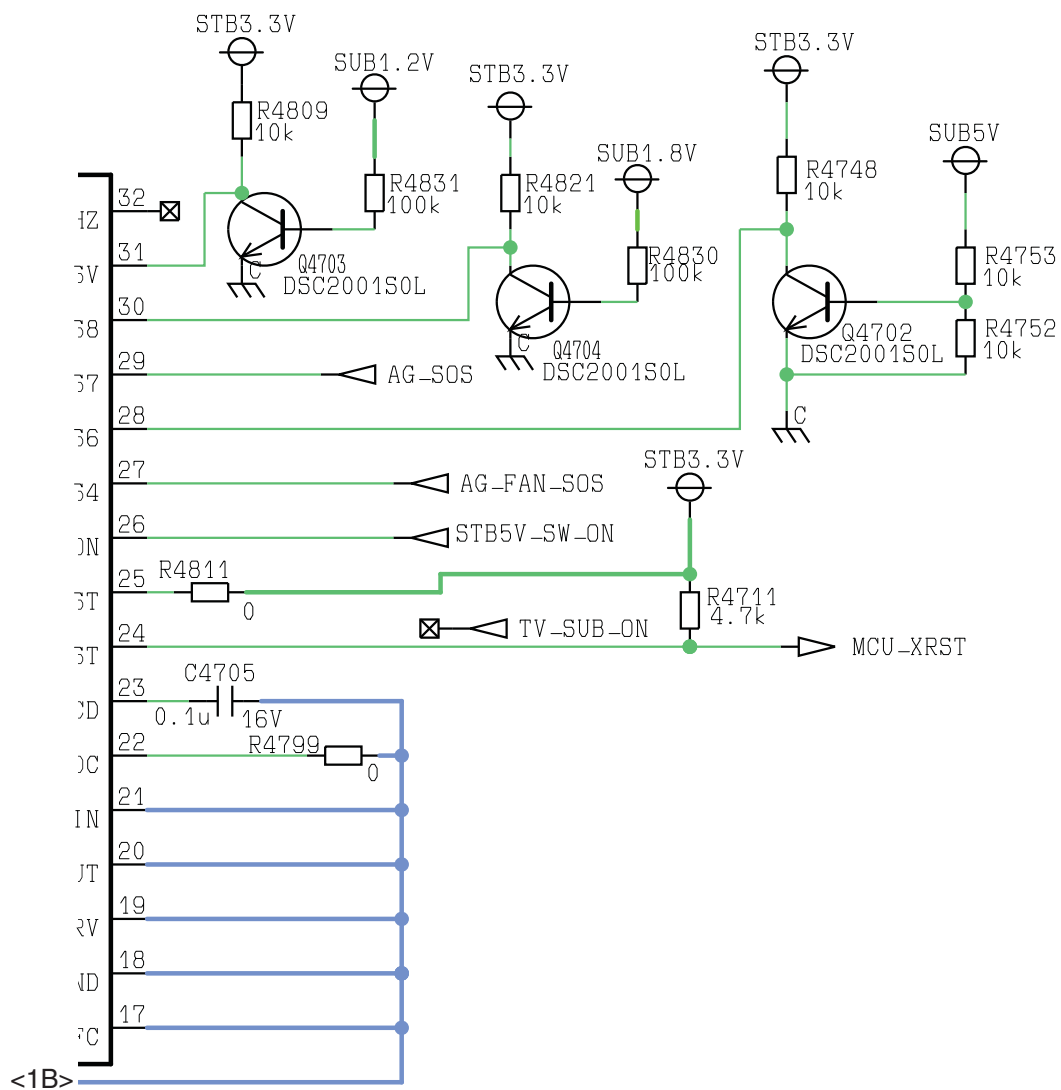
Sheet

IC4700
C1ZBZ0004161

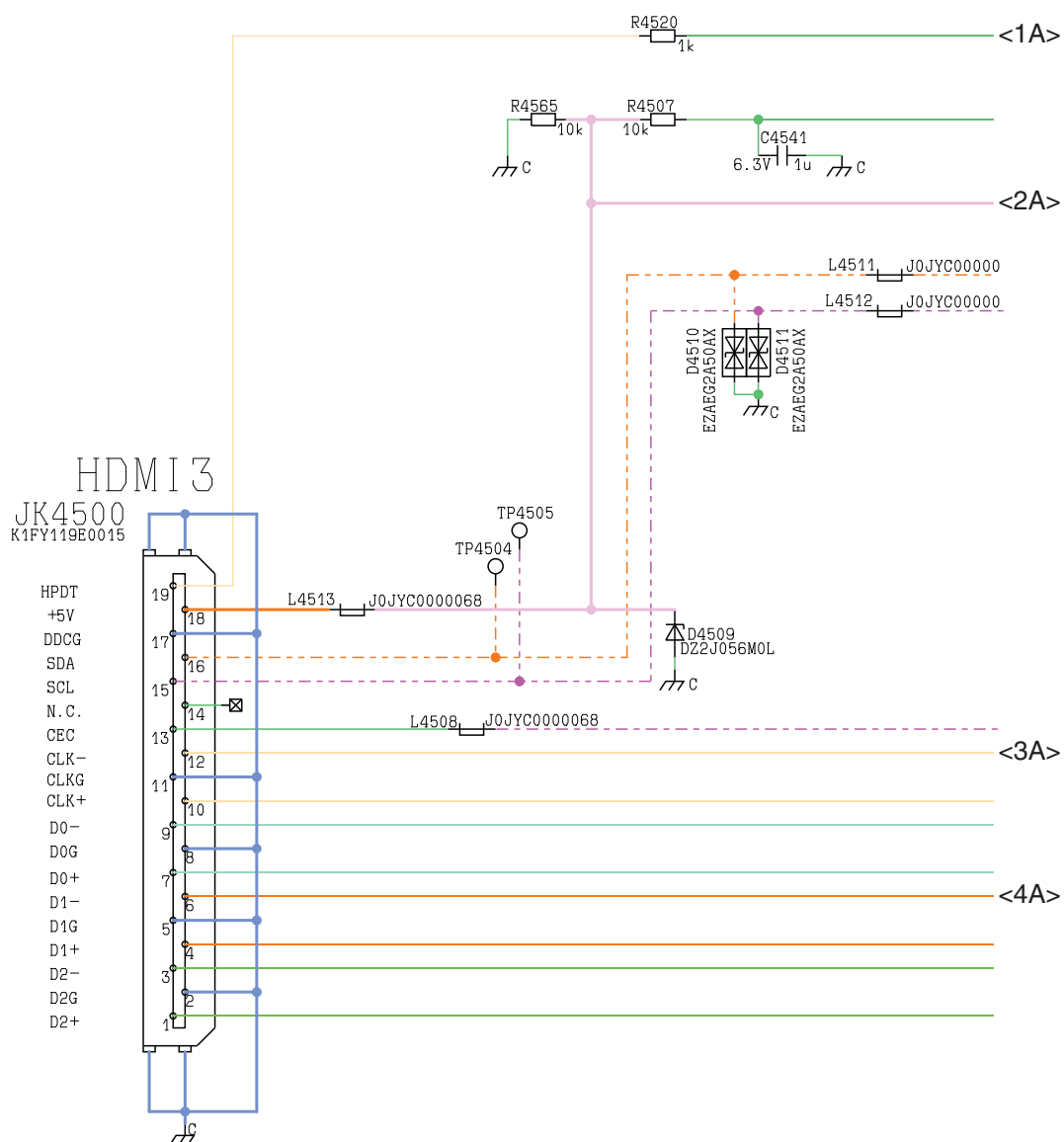


11.2.17. A Board - Sheet : 009 (3 / 3)

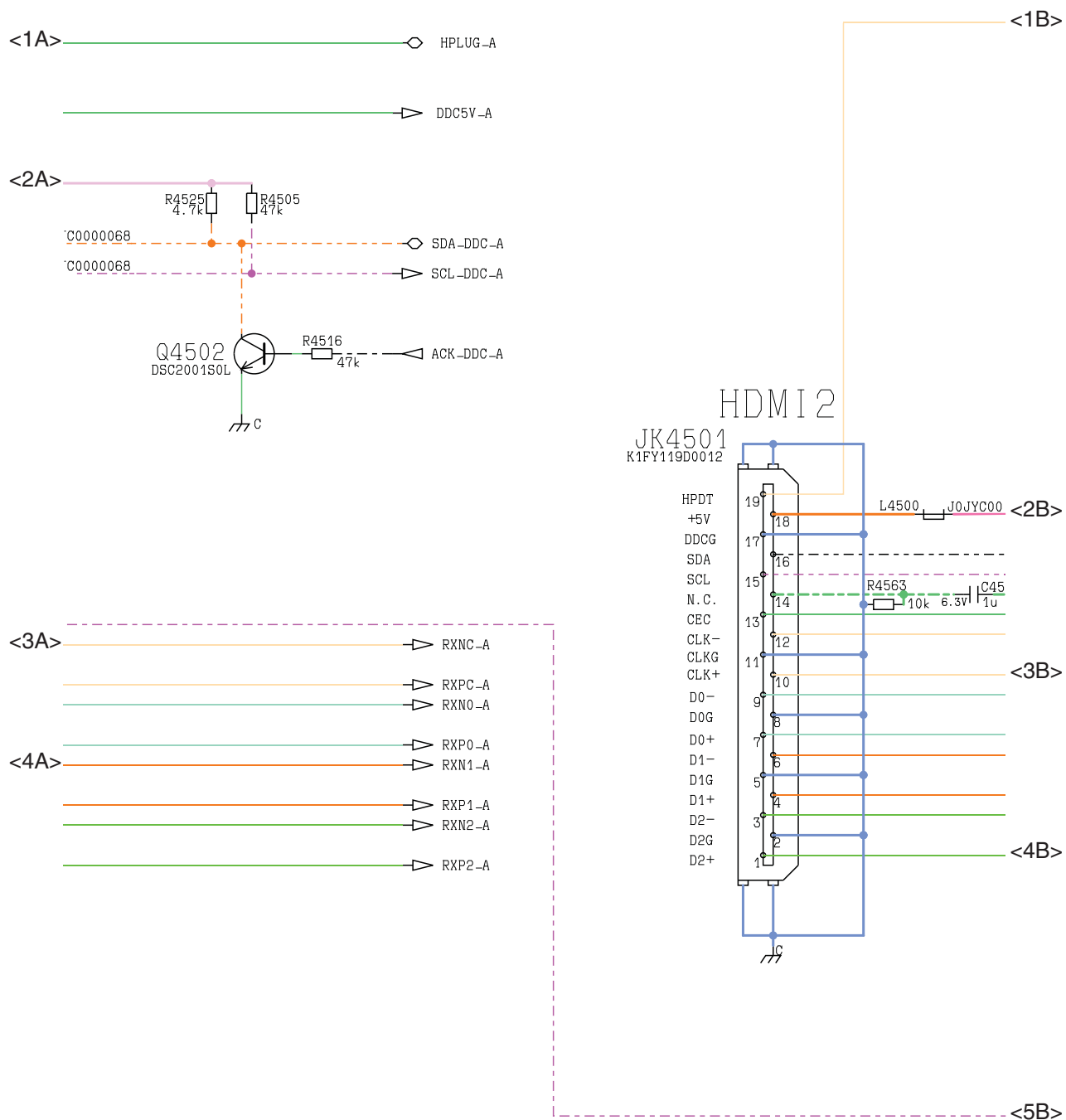
No. 009



11.2.18. A Board - Sheet : 010 (1 / 5)

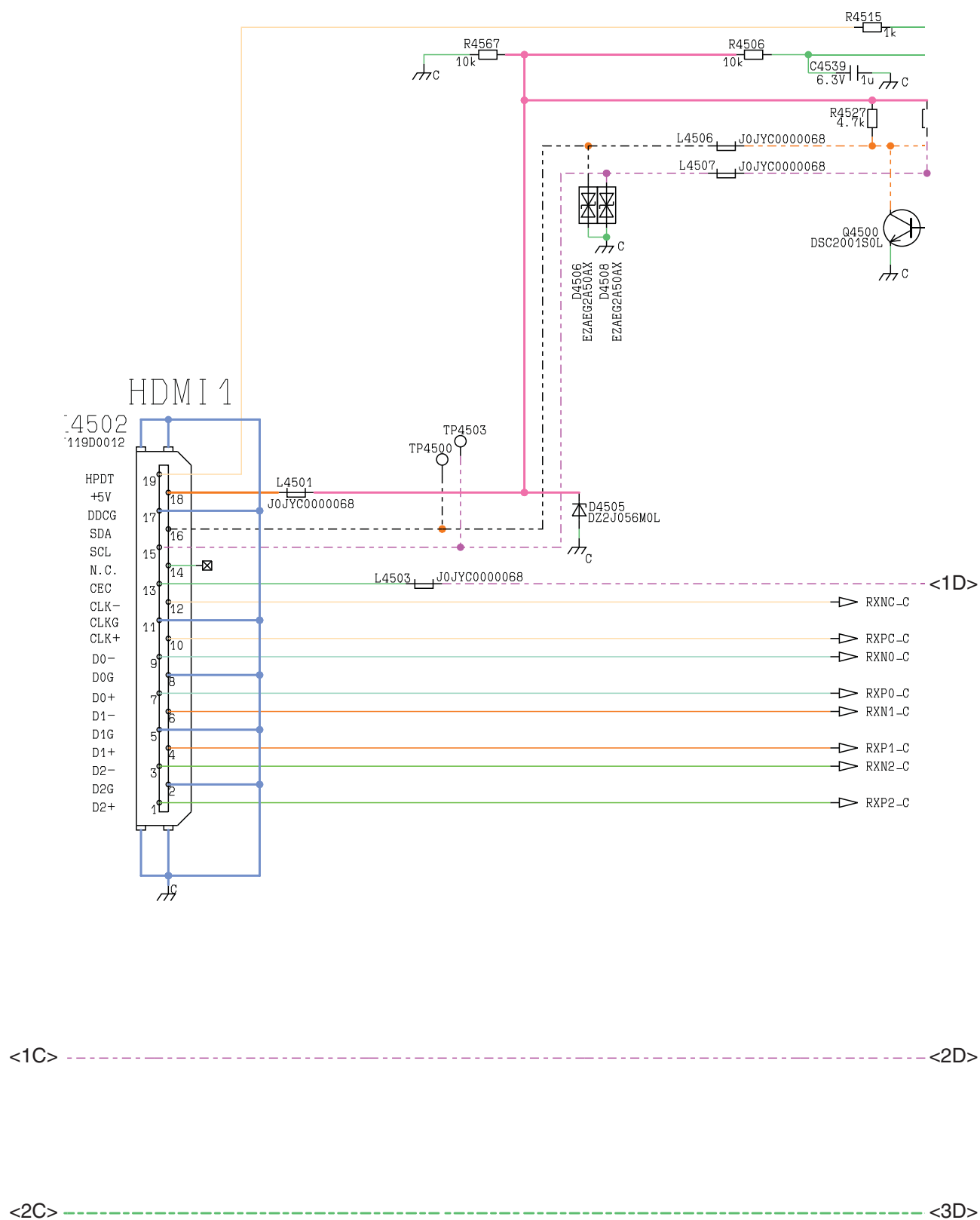


11.2.19. A Board - Sheet : 010 (2 / 5)





11.2.21. A Board - Sheet : 010 (4 / 5)

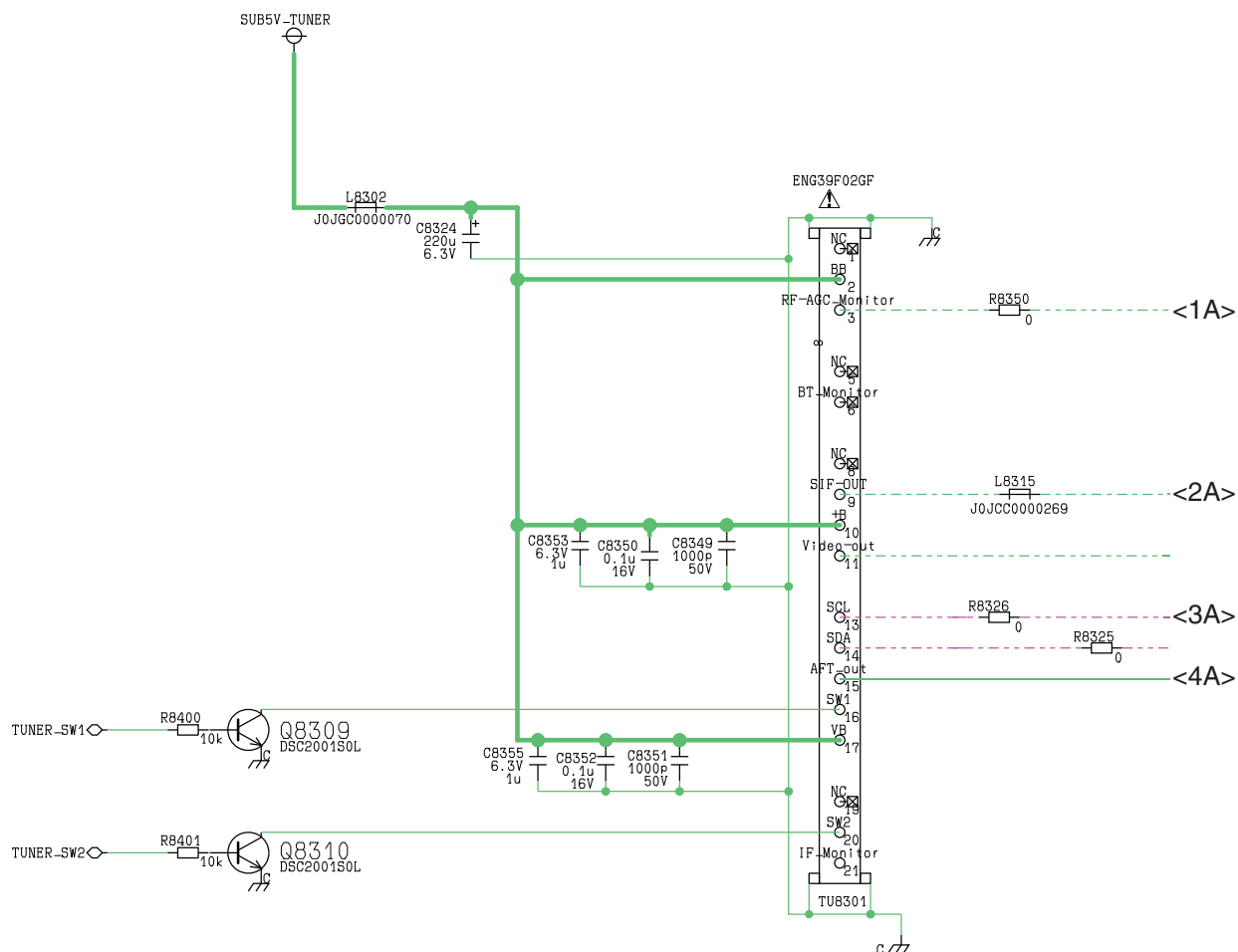




The diagram illustrates the 1D/2D interface. On the left, a vertical stack of 1D channels is labeled <1D>. These channels are: NC-C, PC-C, NO-C, P0-C, N1-C, P1-C, N2-C, and P2-C. On the right, a 2D channel is labeled <2D>. The 2D channel is connected to the 1D channels via a TP4506 component, which is represented by a circle with a dot in the center. The connection is shown as a dashed line from the 2D channel to the TP4506, and then a solid line from the TP4506 to the 1D channels.

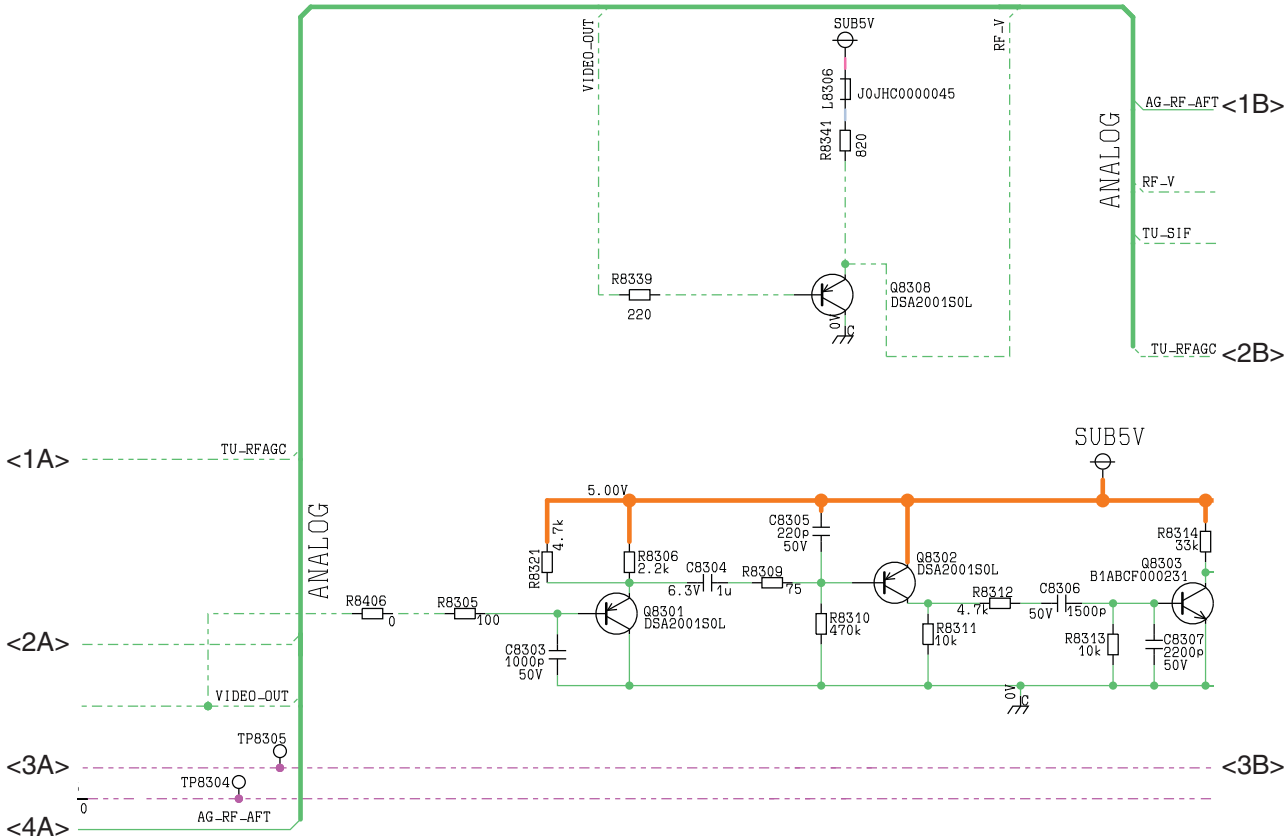


11.2.23. A Board - Sheet : 012 (1 / 3)



11.2.24. A Board - Sheet : 012 (2 / 3)

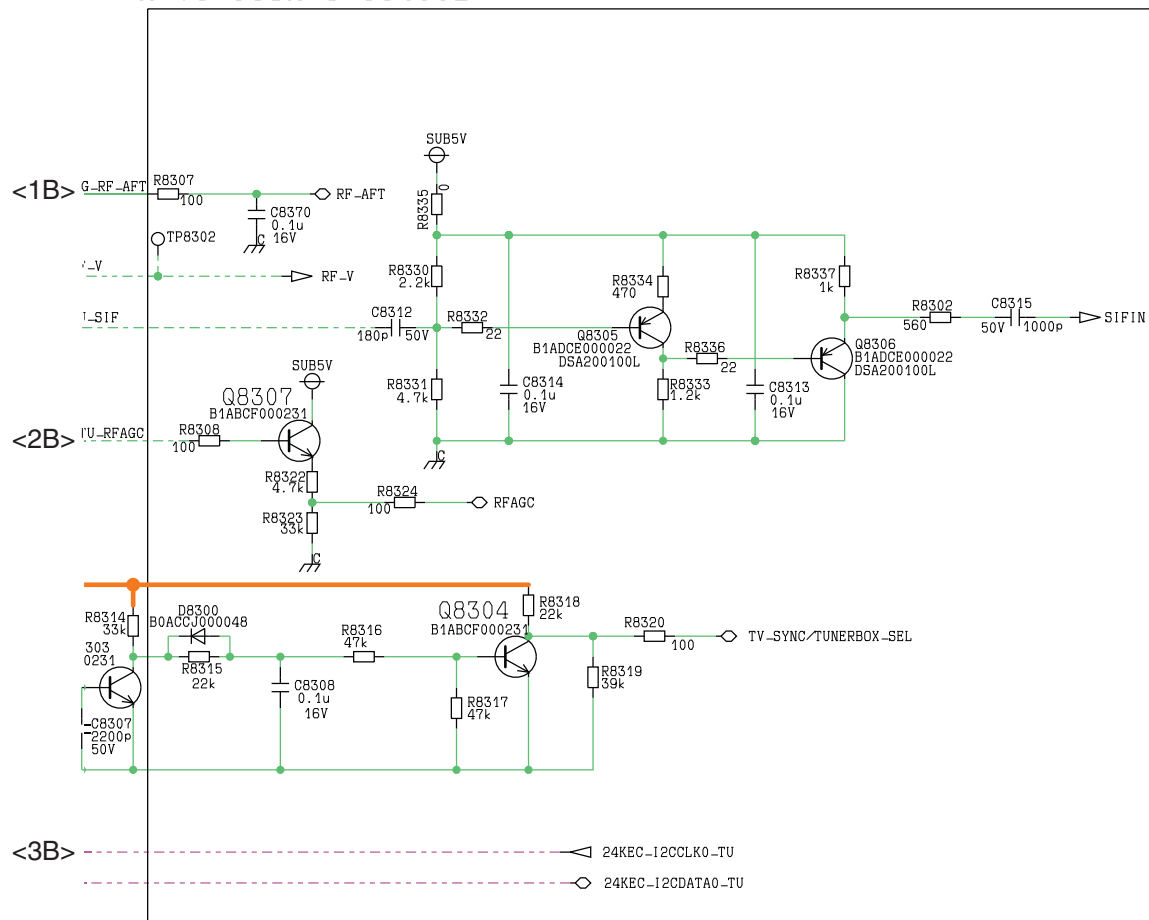
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11.2.25. A Board - Sheet : 012 (3 / 3)

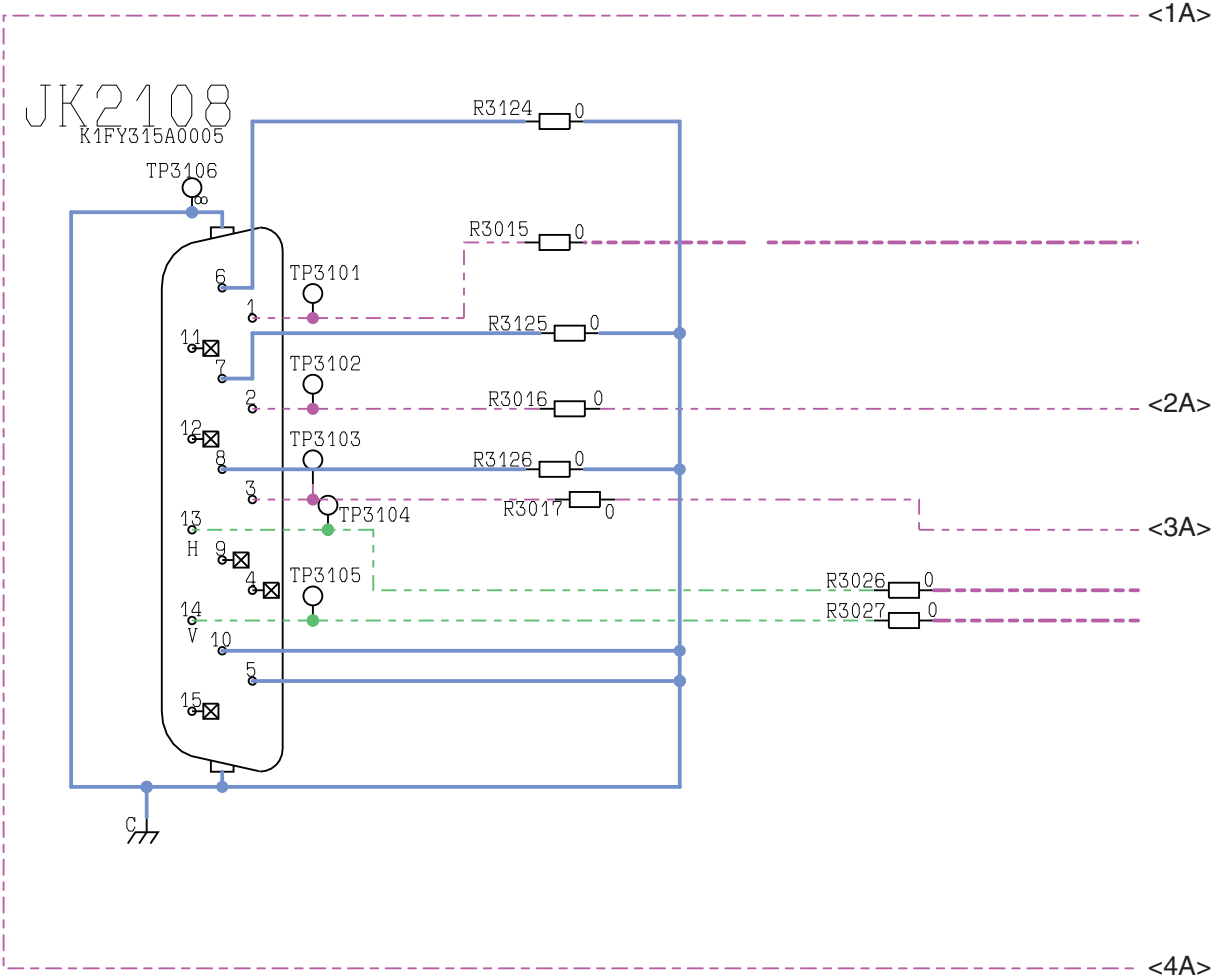
SHEET 012

Nile-TCON Sheet002

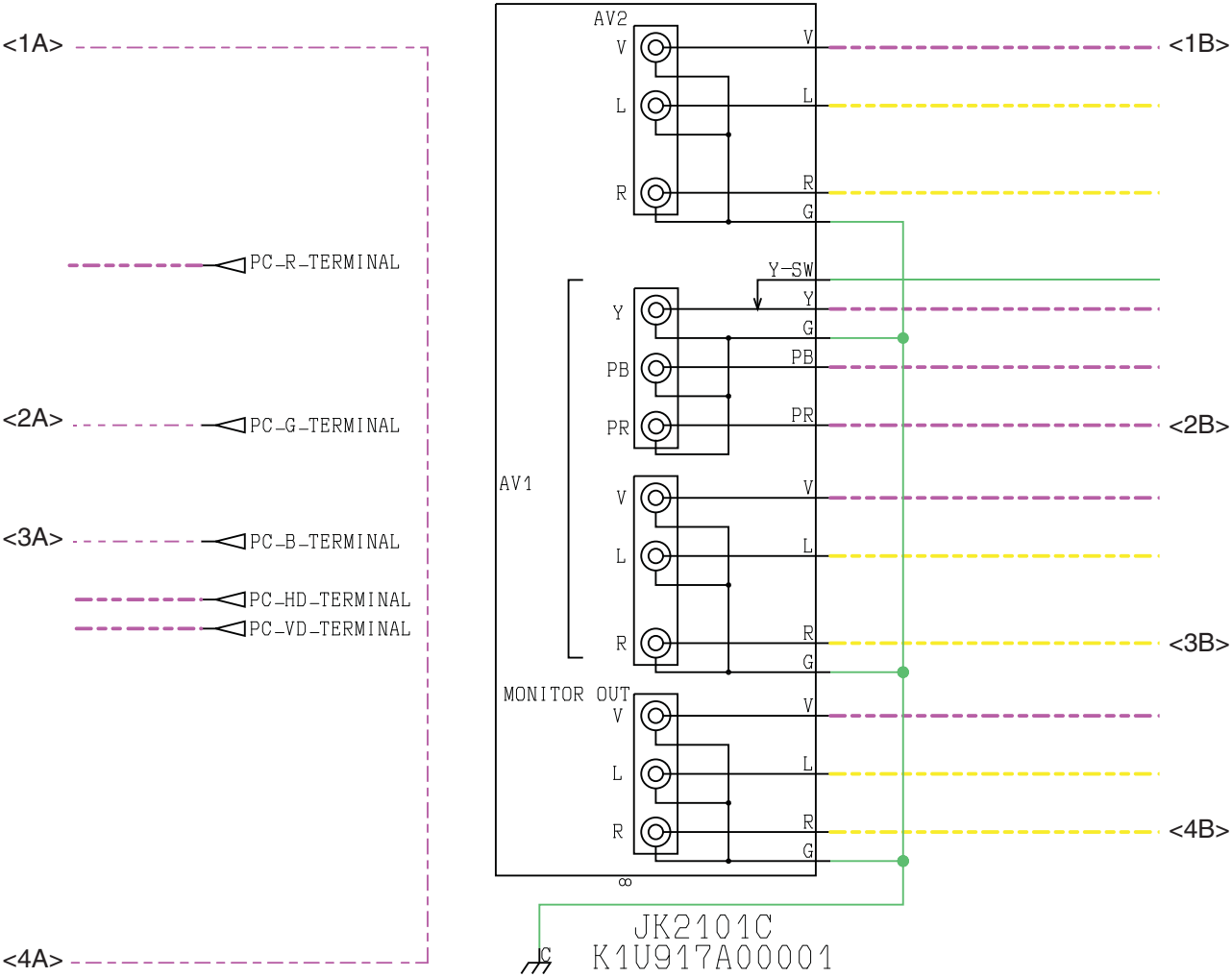


11.2.26. A Board - Sheet : 015 (1 / 4)

PC MODEL



11.2.27. A Board - Sheet : 015 (2 / 4)



11.2.28. A Board - Sheet : 015 (3 / 4)

<1B> --- U-AV1-V/A-AV2-V--TERMINAL

--- U-AV1-L/A-AV2-L--TERMINAL

--- U-AV1-R/A-AV2-R--TERMINAL

--- U-NONUSE-A-AV1-YSW--TERMINAL

--- PDP-U-YPBPR2-Y/LCD-U-YPBPR1-Y/A-AV1-Y--TERMINAL

--- PDP-U-YPBPR2-PB/LCD-U-YPBPR1-PB/A-AV1-PB--TERMINAL

<2B> --- PDP-U-YPBPR2-PR/LCD-U-YPBPR1-PR/A-AV1-PR--TERMINAL

--- A-AV1-V--TERMINAL

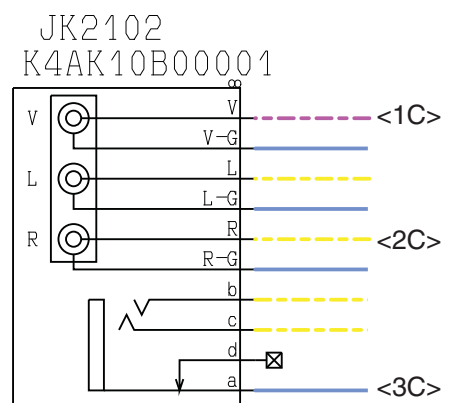
--- PDP-U-YPBPR2-L/LCD-U-YPBPR1-L/A-AV1-L--TERMINAL

<3B> --- PDP-U-YPBPR2-R/LCD-U-YPBPR2-R/A-AV1-R--TERMINAL

--- U-NONUSE/A-VOUT--TERMINAL

--- U-YPBPR1-L/A-AUDIOOUT-L--TERMINAL

<4B> --- U-YPBPR1-R/A-AUDIOOUT-R--TERMINAL



11.2.29. A Board - Sheet : 015 (4 / 4)

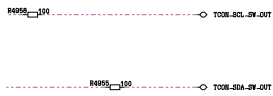
Sheet No. 015



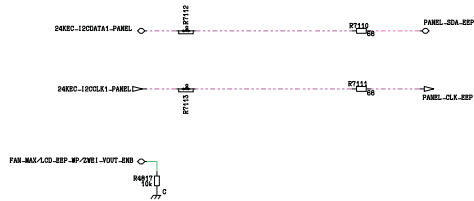


11.2.31. A Board - Sheet : 016 (2 / 3)

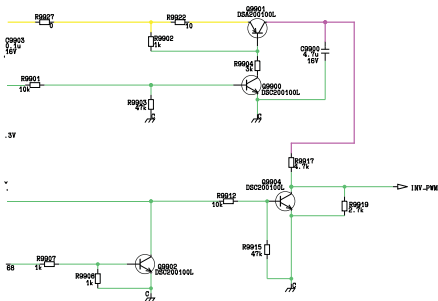
<1A>



<2A>



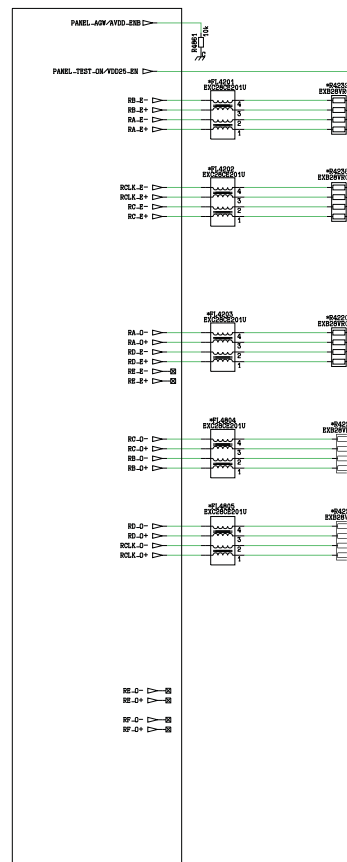
<3A>



<4A>

<1B>

Nile-TCON
to Sheet 002
LVDS OUT

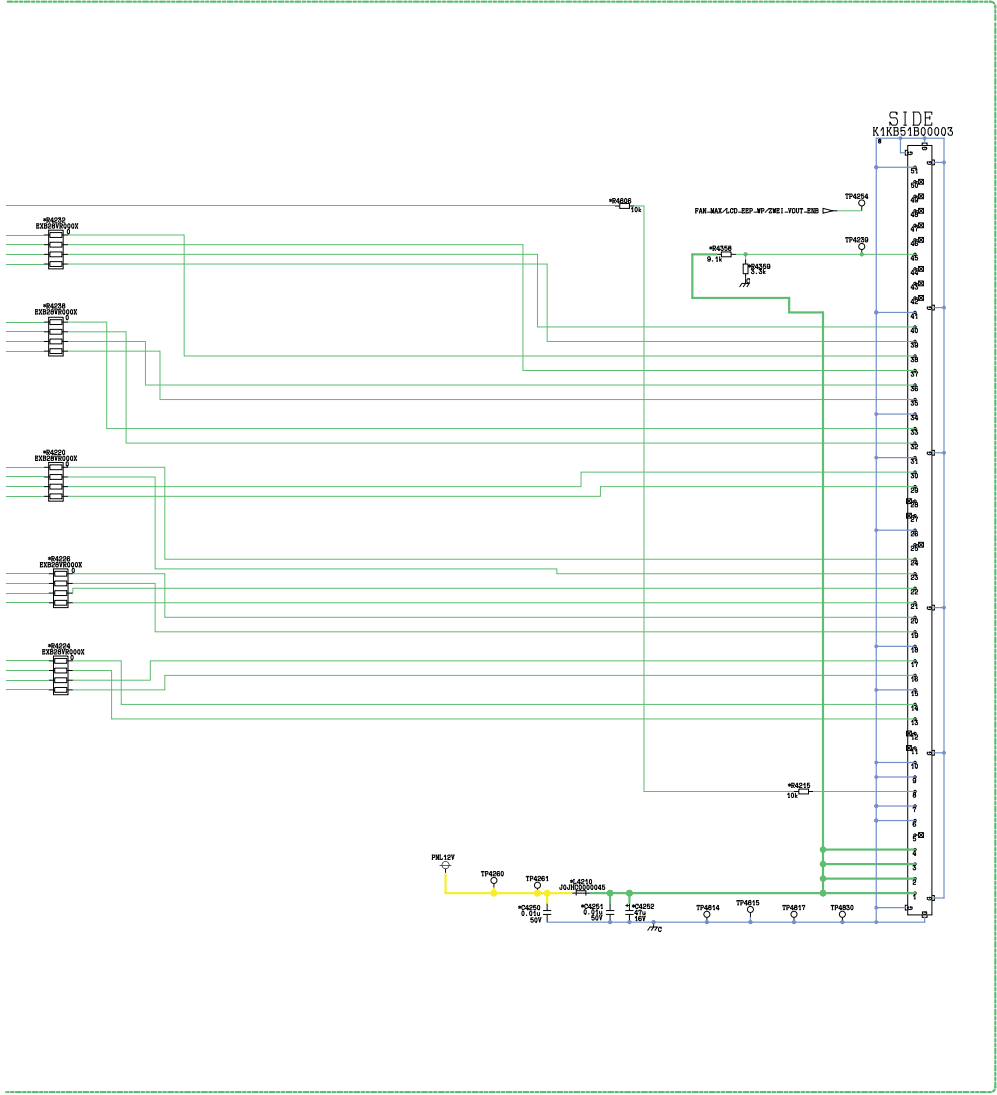


<2B>

11.2.32. A Board - Sheet : 016 (3 / 3)

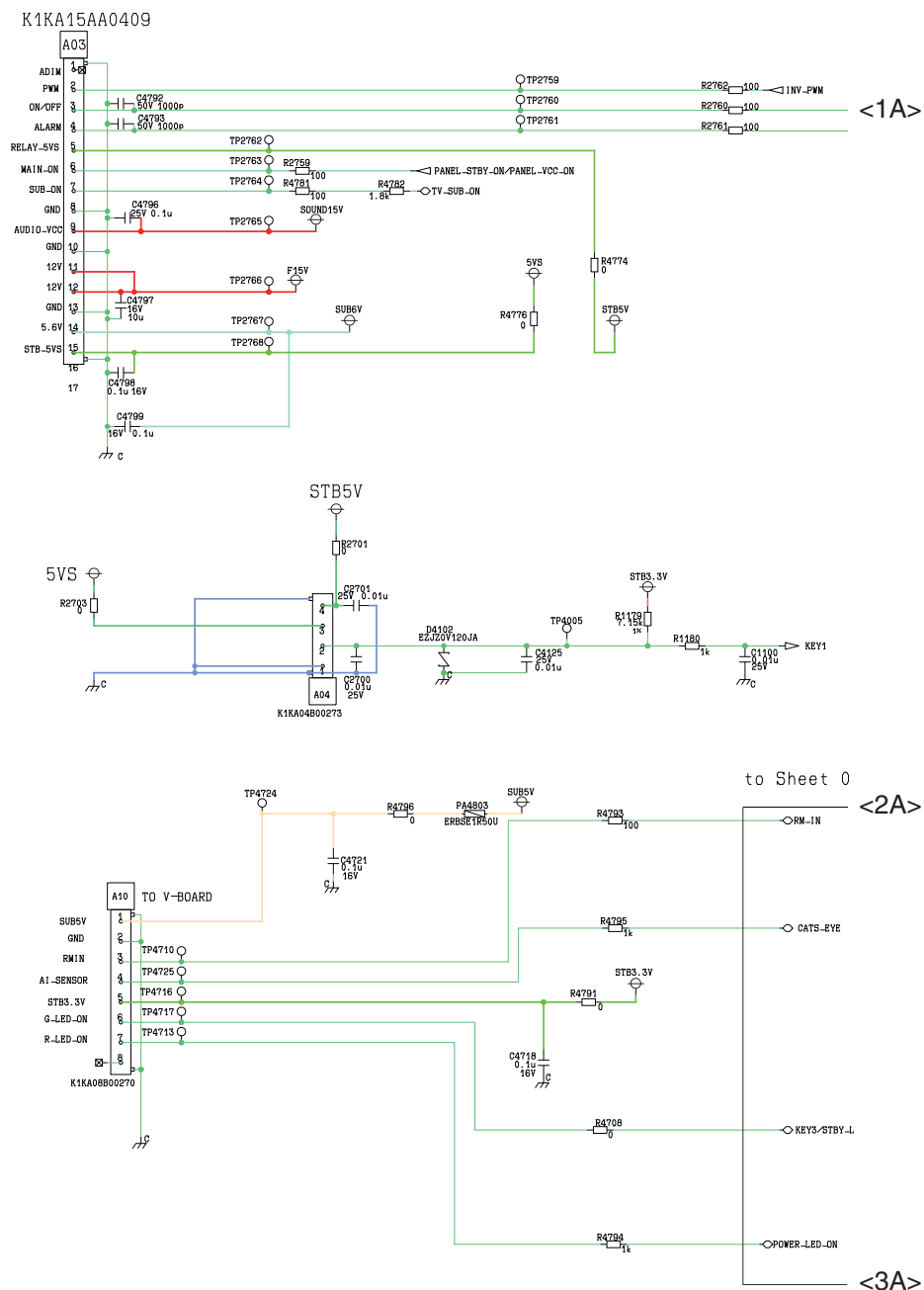
Sheet No.016
PANEL-LCD

<1B>

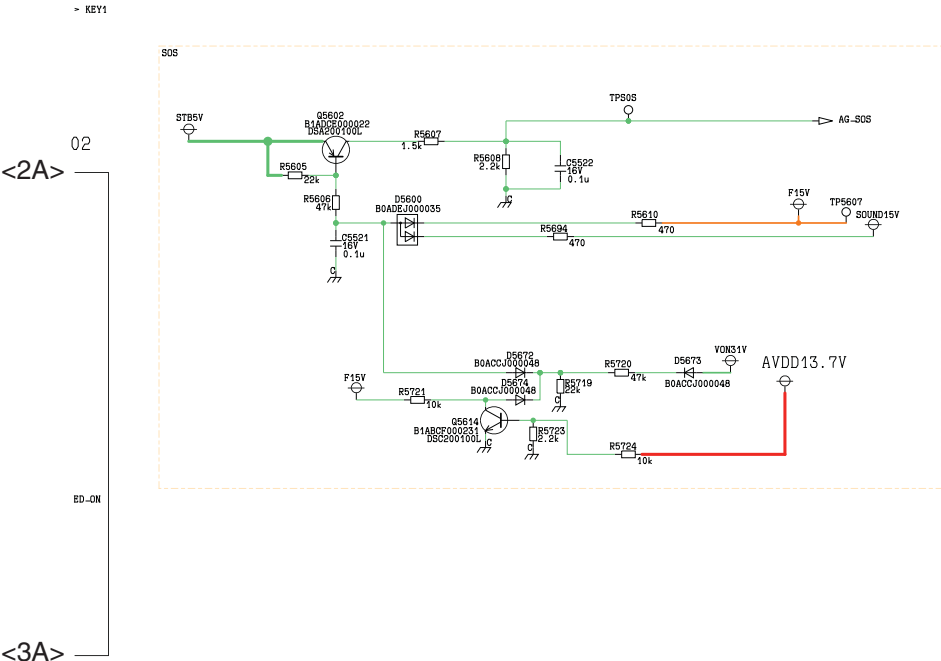
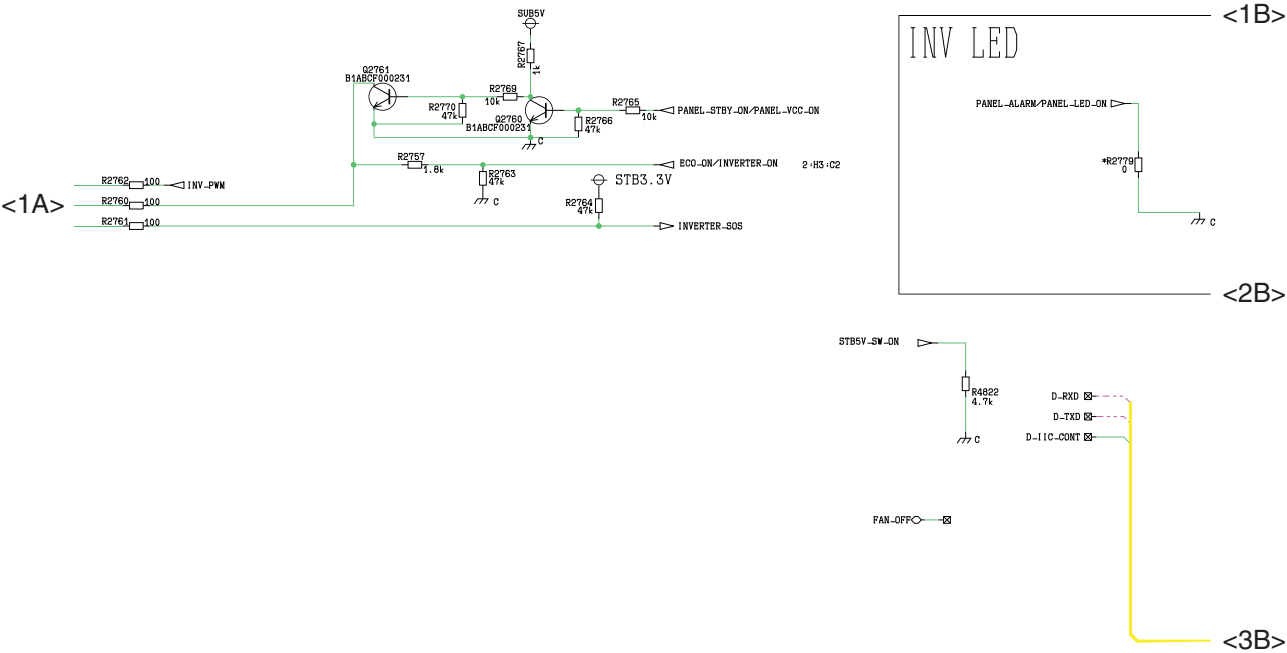


<2B>

11.2.33. A Board - Sheet : 017 (1 / 4)

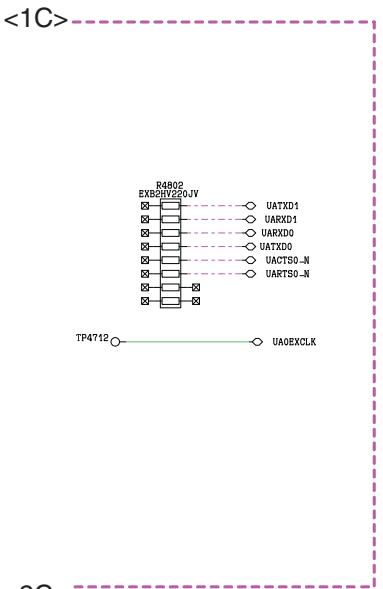


11.2.34. A Board - Sheet : 017 (2 / 4)

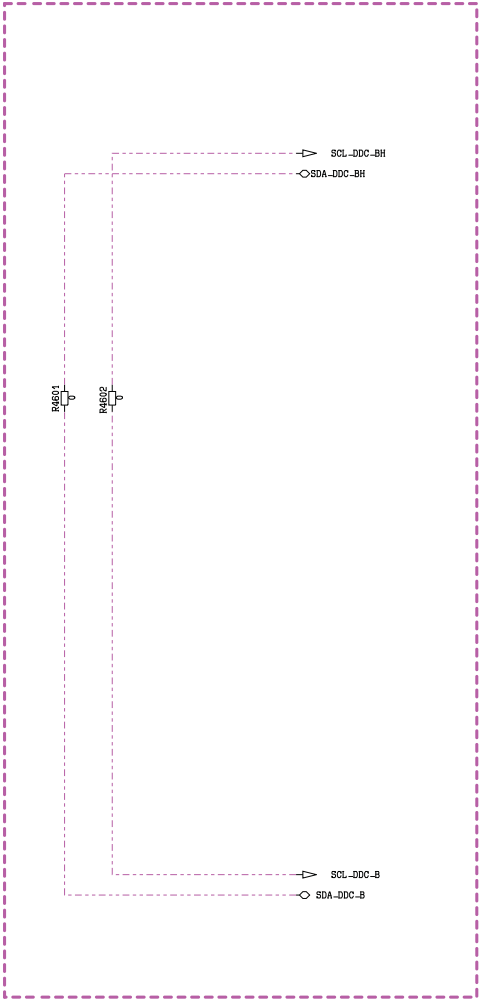
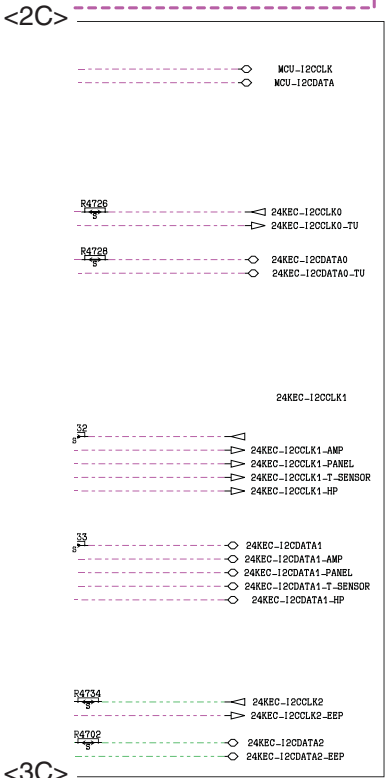




11.2.36. A Board - Sheet : 017 (4 / 4)



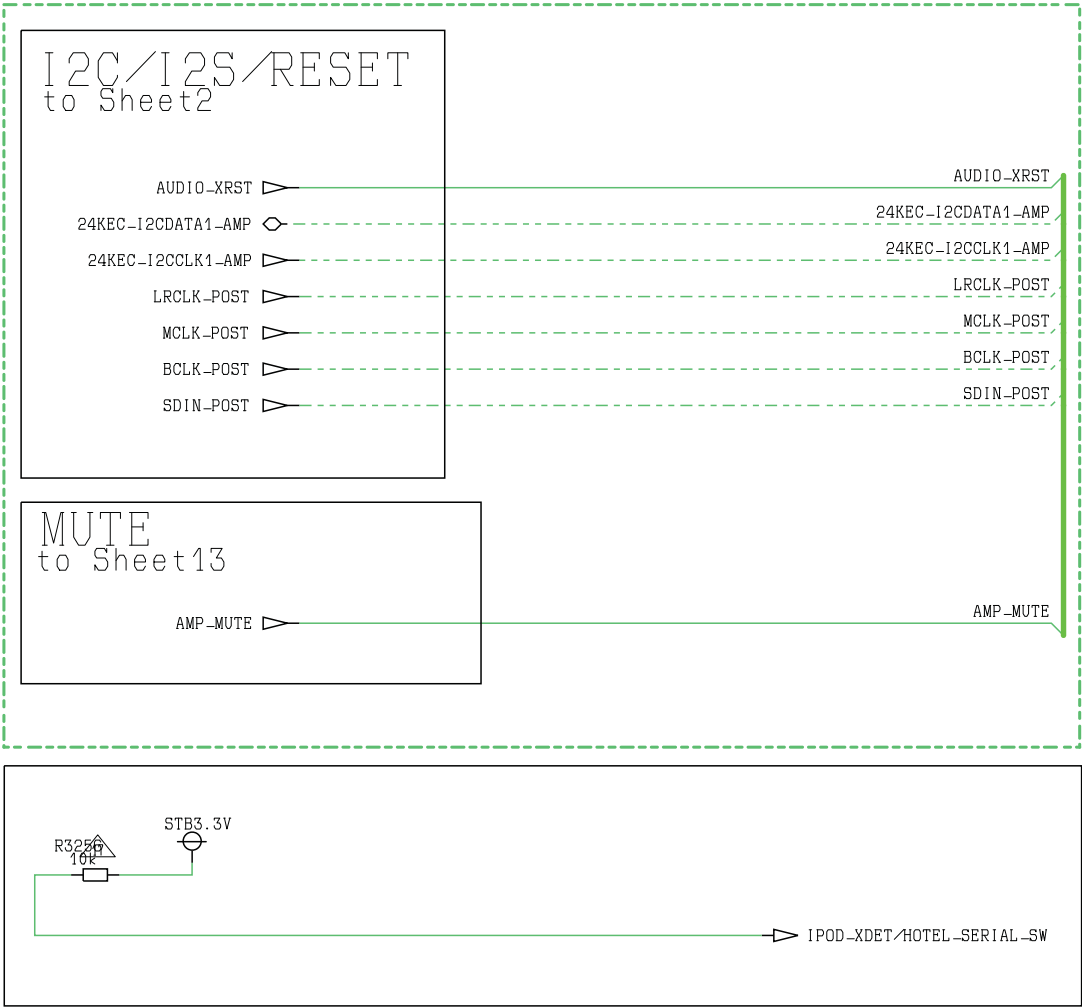
Sheet No. 017



<3C>

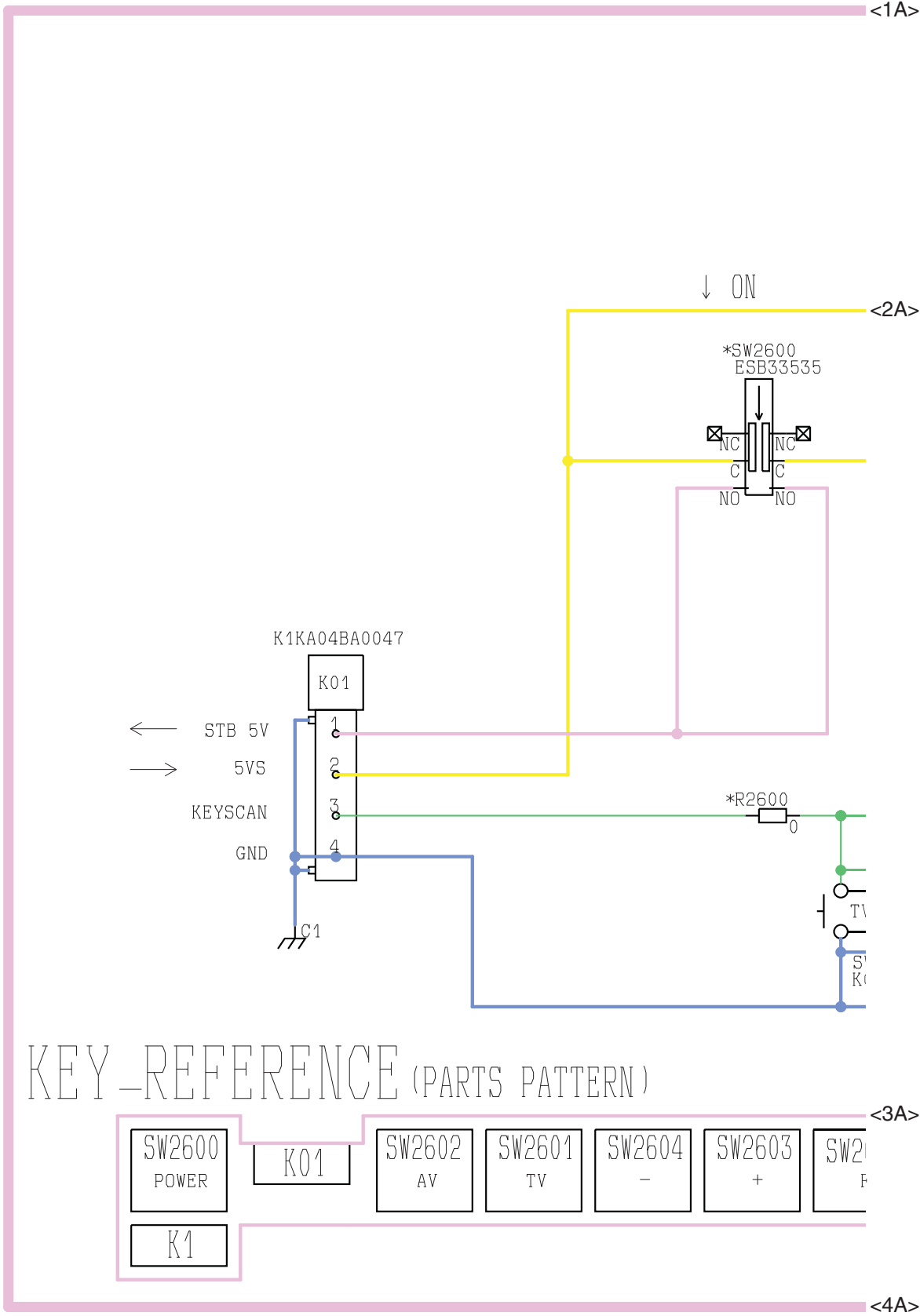
11.2.37. A Board - Sheet : 018 (1 / 1)

Sheet No. 018

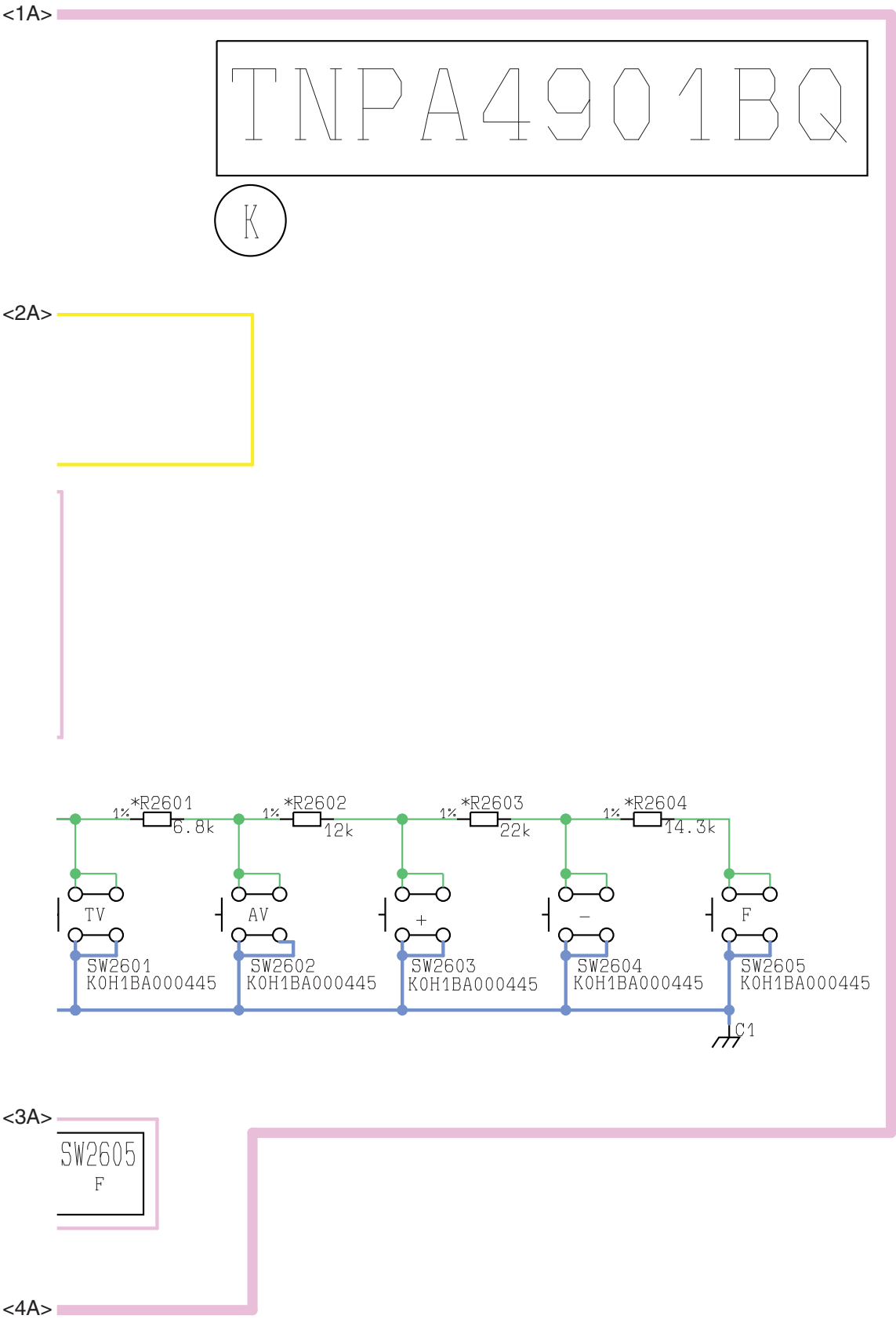


11.3. K Board

11.3.1. K Board (1 / 2)



11.3.2. K Board (2 / 2)







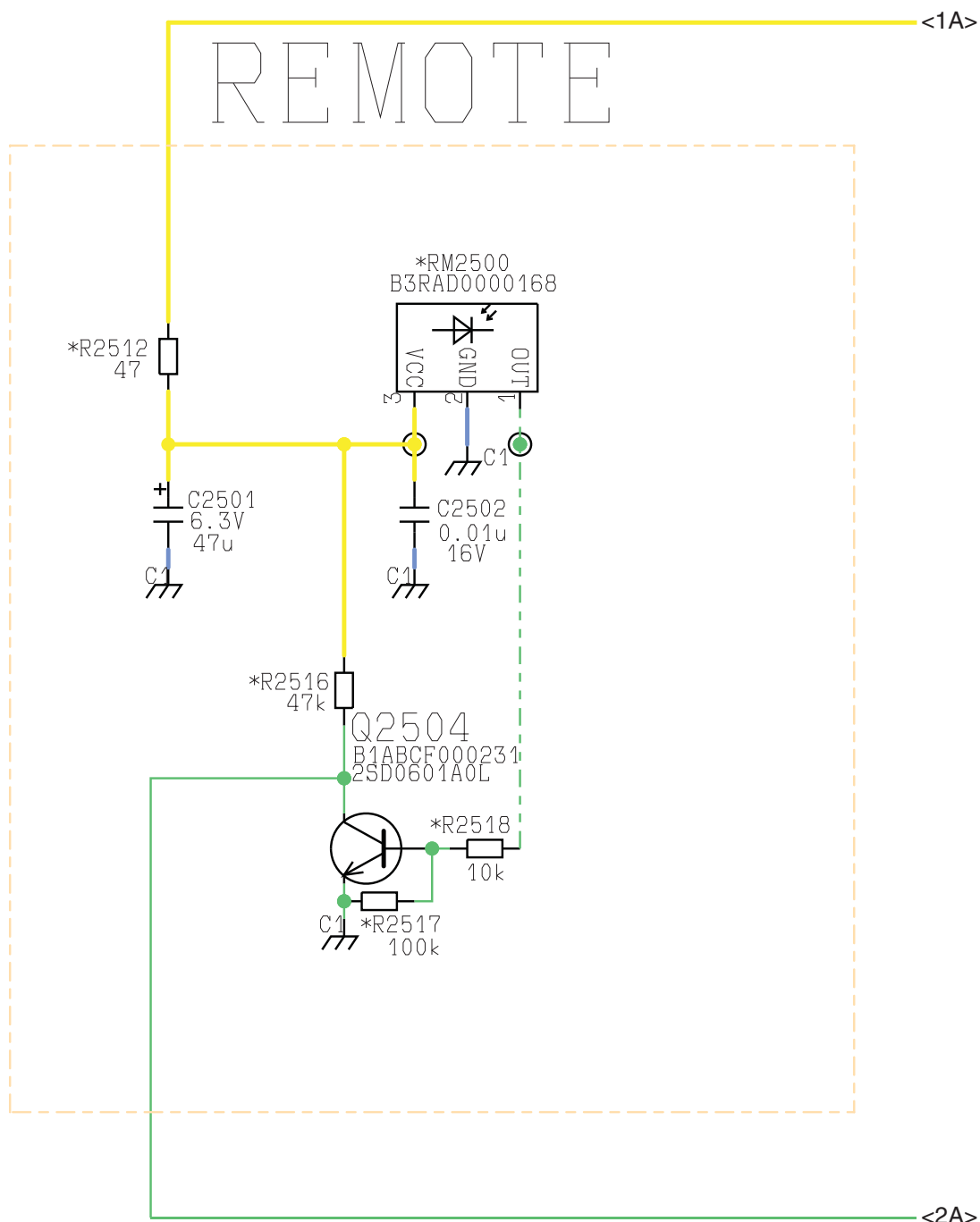


11.5. V Board

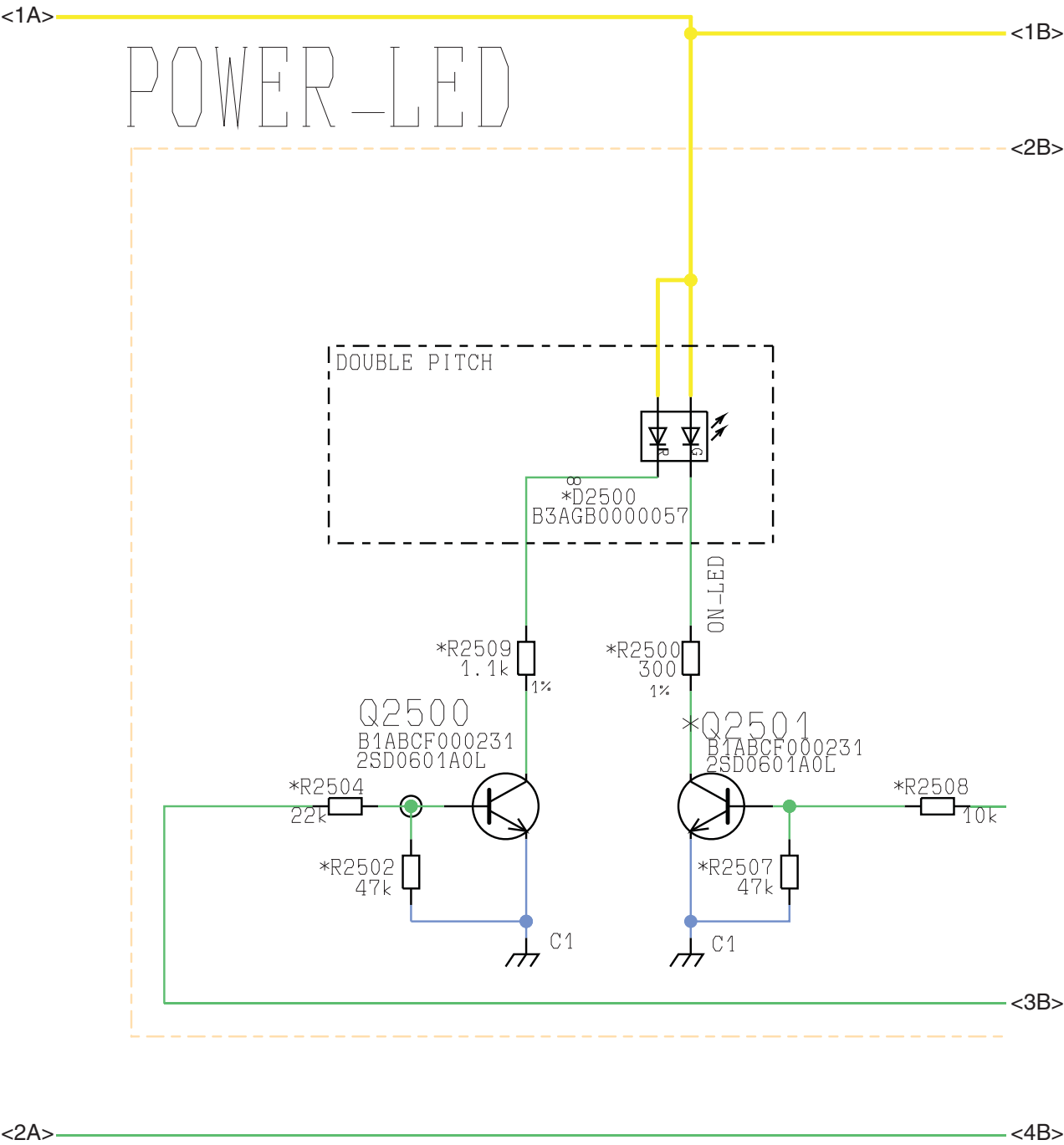
11.5.1. V Board (1 / 3)

V TNPA4834BH

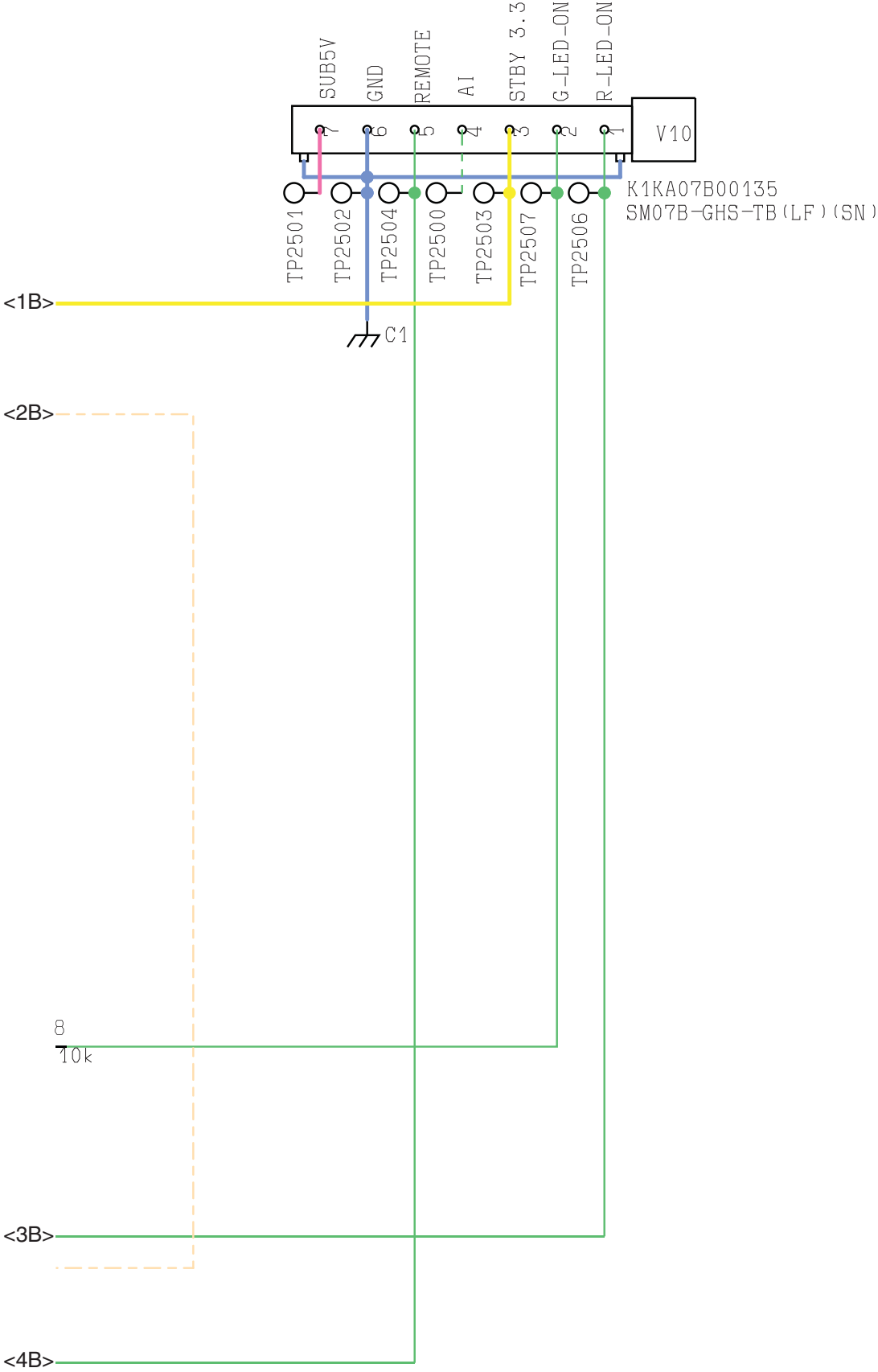
V CIRCUIT



11.5.2. V Board (2 / 3)



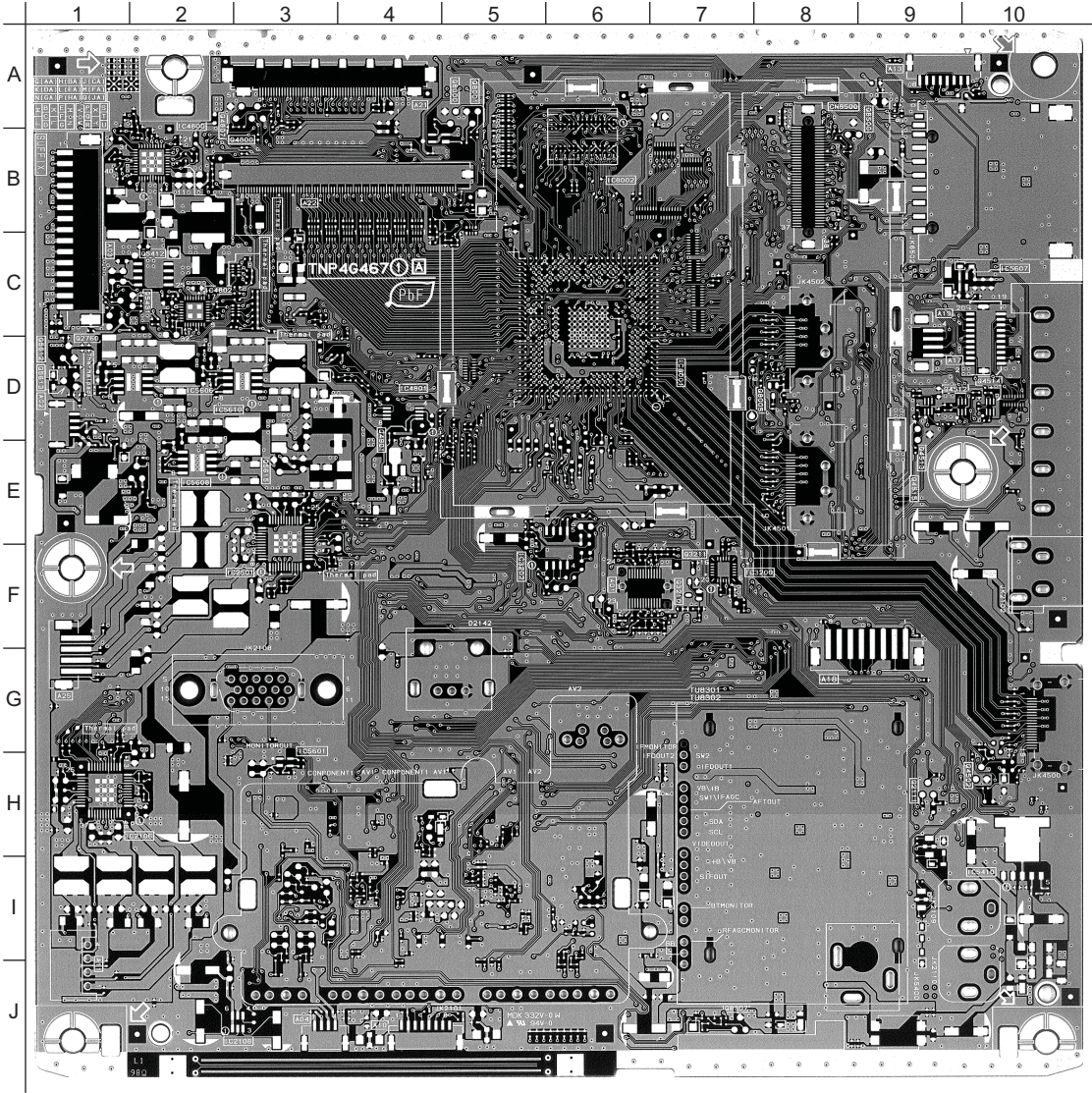
11.5.3. V Board (3 / 3)



12 Printed Circuit Board

12.1. A-Board

A-Board (A Side)
TNP4G467

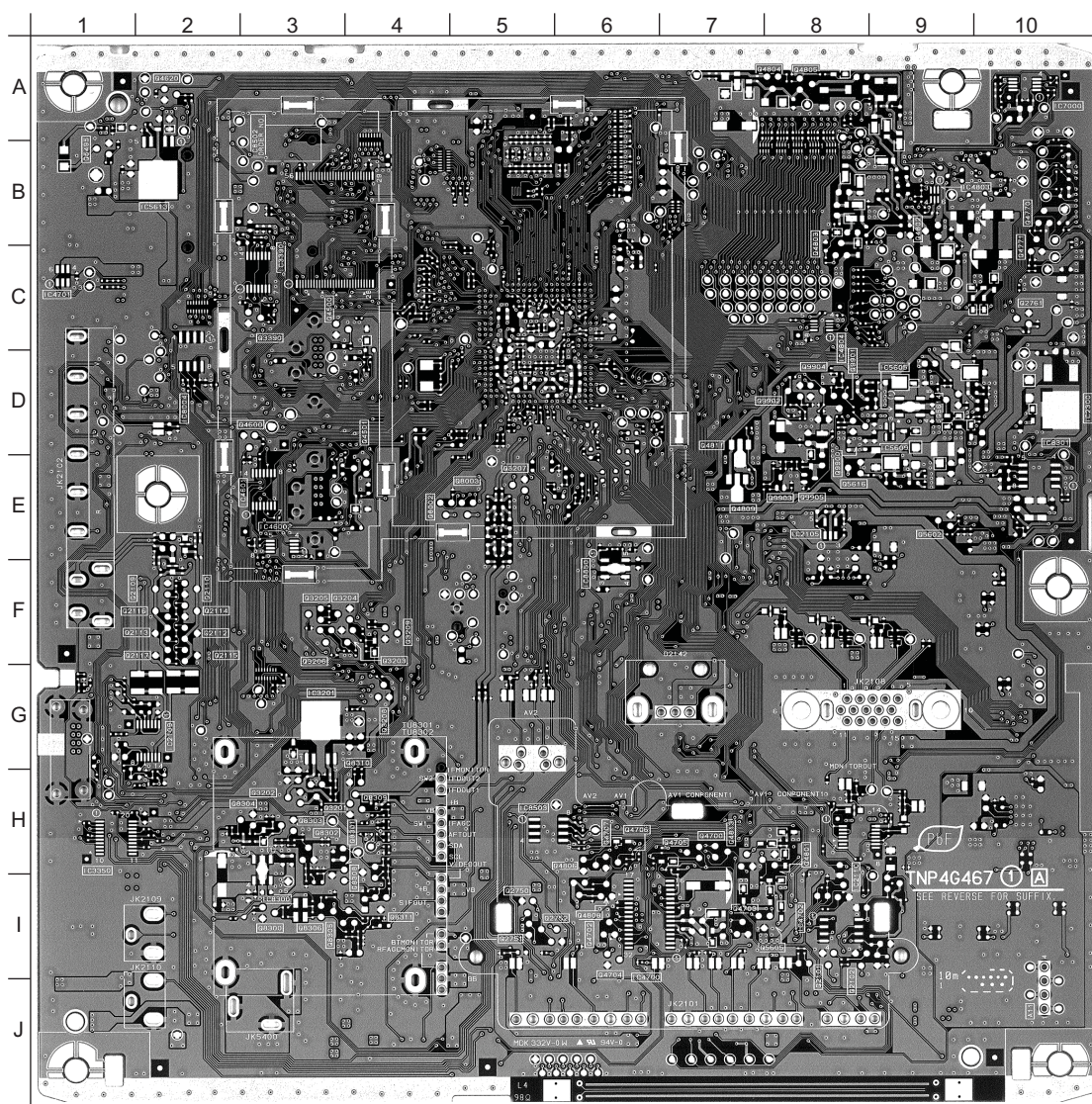


Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC2106	H2	IC4801	D4	IC5608	E2	D2142	F5
IC2108	J3	IC4802	C2	IC5610	D2		
IC2501	F2	IC5410	I10	IC8001	D7		
IC3200	F8	IC5601	H3	IC8002	B6		
IC3202	F5	IC5606	D2				
IC4800	A2	IC5607	C10				

12.2. A-Board

A-Board (B Side)
TNP4G467

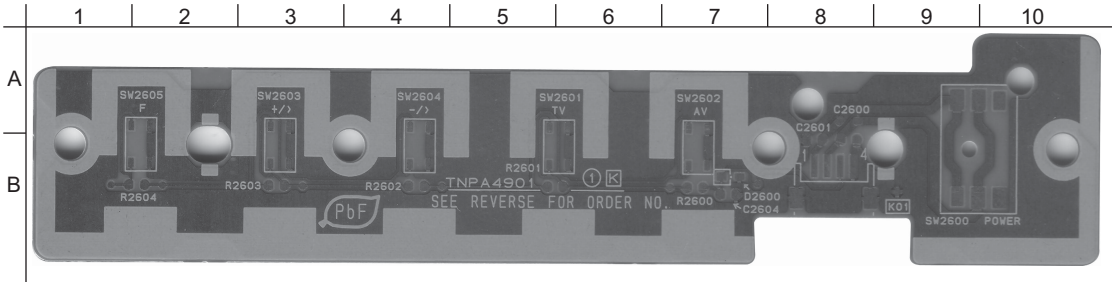


Parts Location

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	J9	IC4701	C1	IC8004	D2		
IC2300	D10	IC4702	I8	IC8300	I3		
IC3201	G3	IC4803	B9	IC8301	D10		
IC3350	H1	IC4804	D8	IC8502	B3		
IC3390	C3	IC5605	D9	IC8503	H5		
IC4600	E3	IC5609	D9	IC8850	F6		

12.3. K-Board

K-Board (A Side)
TNPA4901



Parts Location

Ref. No	Location
D2600	B7

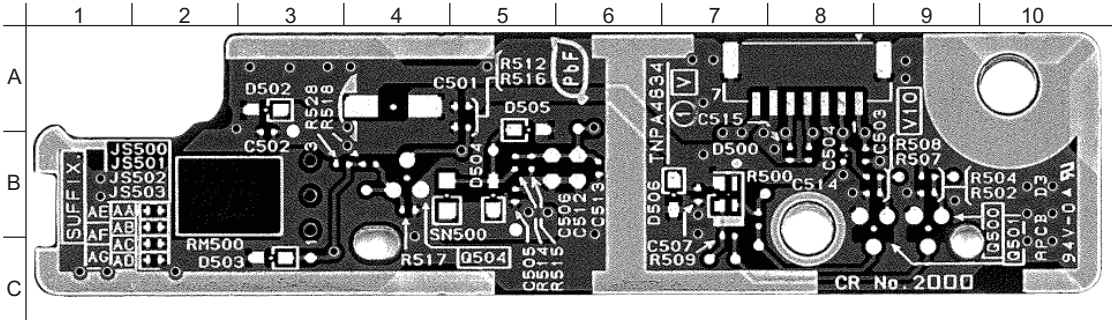
12.4. K-Board

K-Board (B Side)
TNPA4901



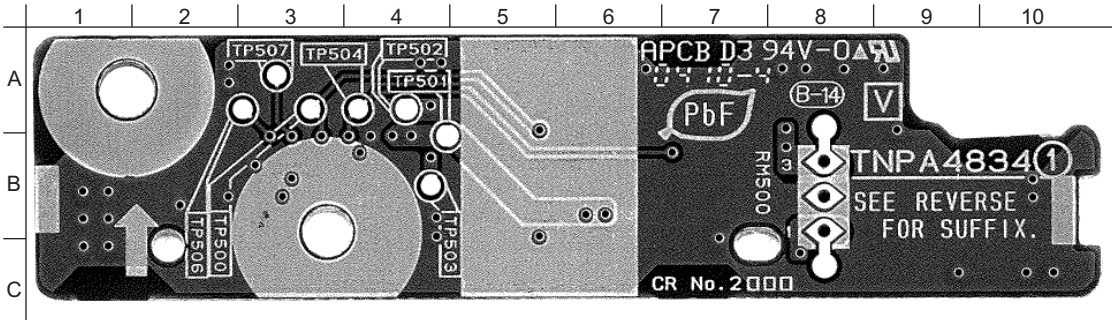
12.5. V-Board

V-Board (A Side)
TNPA4834



12.6. V-Board

V-Board (B Side)
TNPA4834

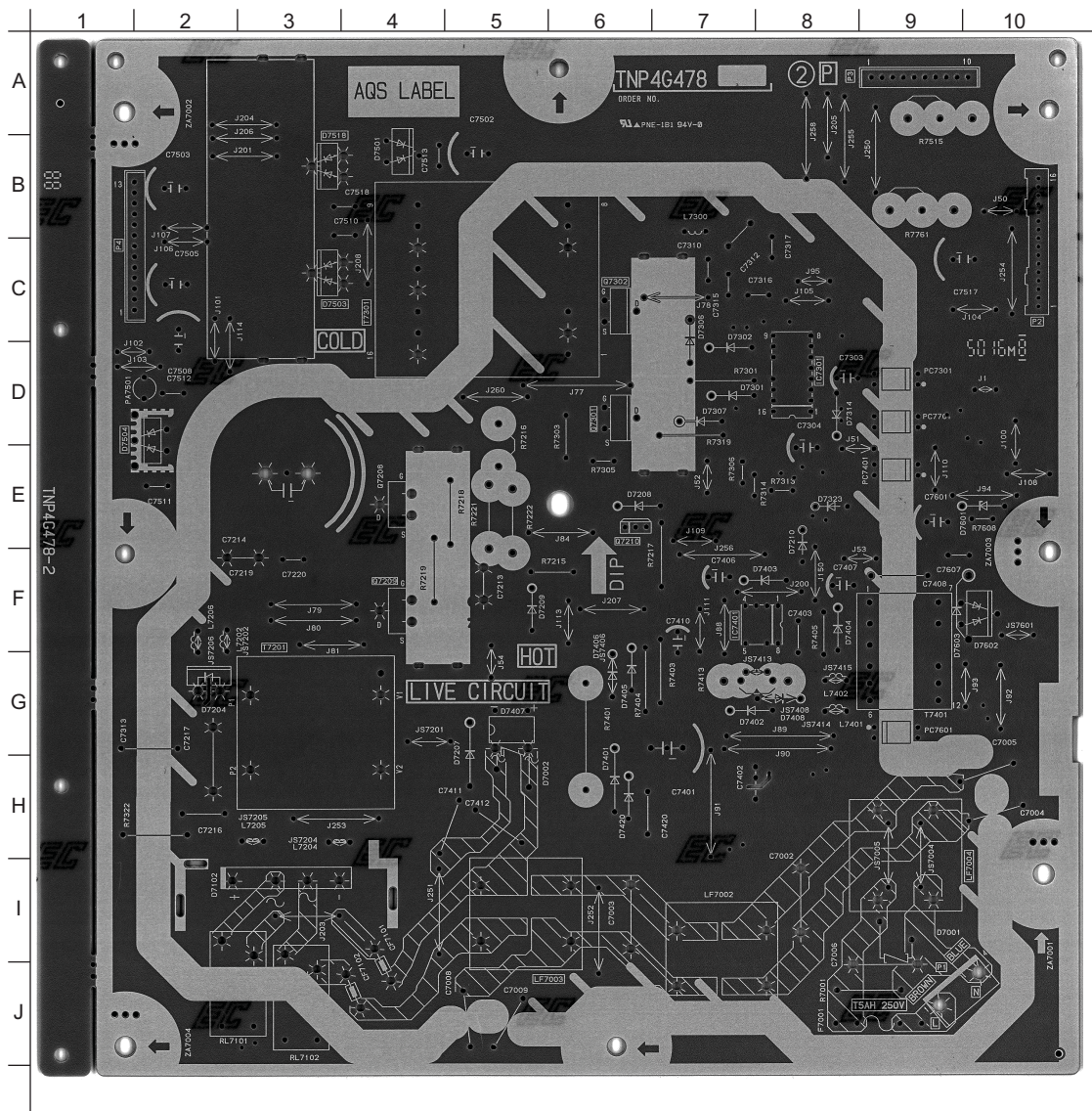




Ref. No	Location		Ref. No	Location		Ref. No	Location		Ref. No	Location
IC7201	F5		D7002	H6		D7310	E4		D7420	H5
IC7301	D3		D7102	I8		D7311	E3		D7501	B7
IC7401	F4		D7204	G9		D7312	E3		D7503	C8
IC7501	D1		D7208	E5		D7313	C4		D7504	E9
IC7601	E1		D7207	H7		D7314	D3		D7518	A8
			D7209	F6		D7315	C5		D7601	E1
			D7210	F3		D7323	E3		D7602	F1
			D7301	D4		D7401	H5		D7603	F2
			D7302	D4		D7402	G4		D7701	D1
			D7303	D3		D7403	F4		D7702	J8
			D7304	D4		D7404	F3		D7704	E3
			D7305	C4		D7405	G5		D7705	E3
			D7306	C4		D7406	G5		D7753	E3
			D7307	D4		D7407	D6		D7889	B1
			D7308	E4		D7408	G3			
			D7309	E4		D7409	E3			

12.8. P-Board

P-Board (B Side)
TNP4G478



Parts Location

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC7301	D8	D7001	I9	D7306	C7	D7407	G5
IC7401	F7	D7002	H5	D7307	D7	D7408	G8
		D7102	I2	D7314	D8	D7420	H6
		D7204	G2	D7323	E8	D7501	B4
		D7207	H5	D7401	H6	D7503	C3
		D7208	E6	D7402	G8	D7504	D1
		D7209	F6	D7403	F8	D7518	A3
		D7210	E8	D7404	F8	D7601	E10
		D7301	D7	D7405	G6	D7602	F10
		D7302	C7	D7406	G6	D7603	F9

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
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 0.1UF,K, 25V	
	C2100	F1J1E105A231	C 1UF , 25V	
	C2103	F1H0J1050013	C 1UF , 6.3V	
	C2107	F1H0J1050013	C 1UF , 6.3V	
	C2108	F1H0J1050013	C 1UF , 6.3V	
	C2109	F1H0J1050013	C 1UF , 6.3V	
	C2111	F1G1E1030005	C 0.1UF,K, 25V	
	C2115	F1G1H5610004	C 560PF , 50V	
	C2116	F1G1H5610004	C 560PF , 50V	
	C2145	F1K1E106A136	C 10UF , 25V	
	C2166	F1G1E104A087	C 0.1UF , 25V	
	C2167	F1G1E104A087	C 0.1UF , 25V	
	C2173	F1J1A106A087	C 10UF , 10V	
	C2175	F1J1A106A087	C 10UF , 10V	
	C2197	F1G1E1030005	C 0.1UF,K, 25V	
	C2198	F1H0J1050013	C 1UF , 6.3V	
	C2199	F1H0J1050013	C 1UF , 6.3V	
	C2200	F1H0J1050013	C 1UF , 6.3V	
	C2201	F1H0J1050013	C 1UF , 6.3V	
	C2202	F1H0J1050013	C 1UF , 6.3V	
	C2203	F1J1A106A087	C 10UF , 10V	
	C2204	F1H0J1050013	C 1UF , 6.3V	
	C2205	F1J1A106A087	C 10UF , 10V	
	C2206	F1H0J475A041	C 4.7UF, 6.3V	
	C2207	F1H1A225A051	C 1UF, 16V	
	C2208	F1H1A225A051	C 1UF, 16V	
	C2209	F1H1A225A051	C 1UF, 16V	
	C2210	F1H1A225A051	C 1UF, 16V	
	C2211	F1H1A225A051	C 1UF, 16V	
	C2212	F1H1A225A051	C 1UF, 16V	
	C2213	F1H0J1050013	C 1UF , 6.3V	
	C2214	F1H0J1050013	C 1UF , 6.3V	
	C2217	F1H0J475A041	C 4.7UF, 6.3V	
	C2220	F1G1C104A081	C 0.1UF ,16V	
	C2221	F1G1C104A081	C 0.1UF ,16V	
	C2222	F1J1A106A087	C 10UF , 10V	
	C2223	F1G1H472A571	C 4700PF , 50V	
	C2224	F1G1H472A571	C 4700PF , 50V	
	C2225	F1G1C473A081	C 0.047UF , 16V	
	C2226	F1G1C473A081	C 0.047UF , 16V	
	C2227	F1J1A106A087	C 10UF , 10V	
	C2229	F1G1H222A571	C 2200PF , 50V	
	C2230	F1G1C104A081	C 0.1UF , 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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	F2H1E471A031	C 470PF , 16V	
	C2266	F1K1E106A136	C 10UF , 25V	
	C2267	F1H1H103A219	C 0.01UF , 50V	
	C2268	F2H1C470A041	E 470PF , 16V	
	C2269	F1J1A475A087	C 4.7UF, 10V	
	C2271	F1H1C105A145	C 1UF , 16V	
	C2272	F1G1E1030005	C 0.1UF,K, 25V	
	C2273	F1J1A106A087	C 10UF , 10V	
	C2274	F1J1A106A087	C 10UF , 10V	
	C2275	F1J1E105A231	C 1UF , 25V	
	C2277	F1H1C105A145	C 1UF , 16V	
	C2279	F1G1C104A081	C 0.1UF , 16V	
	C2282	F1J1A106A087	C 10UF , 10V	
	C2285	F1J1A106A087	C 10UF , 10V	
	C2294	F2H0J221A055	C 2.2UF , 6.3V	
	C2295	F2H0J221A055	C 2.2UF , 6.3V	
	C2296	F1H1A225A051	C 2.2UF , 10V	
	C2297	F1H1A225A051	C 2.2UF , 10V	
	C2298	F1H0J1050013	C 1UF , 6.3V	
	C2299	F2H1A101A040	C 100UF , 10V	
	C2300	F2H1A101A040	C 100UF , 10V	
	C2301	F1G1C104A081	C 0.1UF , 16V	
	C2302	F2H1A220A039	C 22UF , 10V	
	C2305	F1J1E105A231	C 1UF , 25V	
	C2306	F1H1C105A145	C 1UF , 16V	
	C2307	F1H0J1050013	C 1UF , 6.3V	
	C2308	F1G1H220A565	C 22PF , 50V	
	C2309	F1H1A225A051	C 2.2UF , 10V	
	C2310	F1H1A225A051	C 2.2UF , 10V	
	C2318	F1H1H102A970	C 1000PF , 50V	
	C2319	F1H1H102A970	C 1000PF , 50V	
	C2501	F2H0J470A054	E 47UF , 6.3V	
	C2502	F1G1C1030008	C 0.01UF , 16V	
	C2505	F1G1A1040006	C 0.1UF , 16V	
	C2506	F1J1A106A043	C 10UF , 10V	
	C2512	F1J1A106A043	C 10UF , 10V	
	C2700	F1G1E1030005	C 0.01UF , 25V	
	C2701	F1G1E1030005	C 0.01UF , 25V	
	C4125	F1G1E1030005	C 0.01UF , 25V	
	C4250	F1H1H103A970	C 0.01UF , 50V	
	C4251	F1H1H103A970	C 0.01UF , 50V	
	C4252	EEH1B1C470P	E 47UF , 16V	
	C4539	F1H0J1050013	C 1UF , 6.3V	
	C4540	F1H0J1050013	C 1UF , 6.3V	
	C4541	F1H0J1050013	C 1UF , 6.3V	
	C4546	F1H0J1050013	C 1UF , 6.3V	
	C4548	F1H0J1050013	C 1UF , 6.3V	
	C4551	F1G1E1030005	C 0.01UF , 25V	
	C4704	F2H1A101A040	C 100UF , 10V	
	C4705	F1G1C104A081	C 0.1UF, 16V	
	C4706	F1H1A105A025	C 1UF , 10V	
	C4707	F1H1A105A025	C 1UF , 10V	
	C4718	F1G1C104A081	C 0.1UF, 16V	
	C4721	F1G1C104A081	C 0.1UF, 16V	
	C4772	F1G1C104A081	C 0.1UF, 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	F1G1C104A081	C 0.1UF, 16V	
	C4799	F1G1C104A081	C 0.1UF, 16V	
	C5431	F1J1E105A231	C 1UF , 25V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C5521	F1G1C104A081	C 0.1UF, 16V	
	C5522	F1G1C104A081	C 0.1UF, 16V	
	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, 25V	
	C5696	F1G1E1030005	C 0.01UF, 25V	
	C5700	F1H0J475A041	C 4.7UF, 6.3V	
	C5701	F1H0J475A041	C 4.7UF, 6.3V	
	C5702	F1H1A105A025	C 1UF, 10V	
	C5703	F1H1A105A025	C 1UF, 10V	
	C5704	F1K1E106A136	C 10UF, 25V	
	C5705	F1K1E106A136	C 10UF, 25V	
	C5706	F1G1E1030005	C 0.01UF, 25V	
	C5707	F1G1C104A081	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	F2H1E470A029	C 47UF, 25V	
	C5734	F1J1E105A231	C 1UF, 25V	
	C5736	F1H0J1050013	C 1UF, 6.3V	
	C5737	F1H0J1050013	C 1UF, 6.3V	
	C5738	F1H0J1050013	C 1UF, 6.3V	
	C5739	F1H0J1050013	C 1UF, 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	F1G1H102A730	C 1000PF, 50V	
	C5779	F1G1H102A730	C 1000PF, 50V	
	C5780	F1G1H102A730	C 1000PF, 50V	
⚠	C7002	F0CAF224A108	P 0.22UF, 250V	
⚠	C7003	F0CAF224A108	P 0.22UF, 250V	
⚠	C7006	F0CAF224A108	P 0.22UF, 250V	
⚠	C7008	F1A2E471A003	C 470PF, 250V	
⚠	C7009	F1A2E471A003	C 470PF, 250V	
	C7206	F1J1H221A834	C 220PF, 50V	
	C7207	F1J1H224A839	C 0.22UF, 50V	
	C7208	F1J1C475A170	C 4.7UF, 16V	
	C7209	F1H1H104A970	C 0.1UF, 50V	
	C7210	F1H1H222A219	C 2200PF, 50V	
	C7211	F1H1H102A219	C 1000PF, 50V	
	C7213	F1B3D471A008	CAPACITOR	
	C7214	F2A2W1710001	C 170UF, 450V	
	C7217	F0CZ2105A097	C 1UF, 250V	
	C7302	F1J1A106A087	C 10UF, 10V	
	C7303	F2A1H220A115	E 22UF, 50V	
	C7304	F2A1H1010047	E 100UF, 50V	
	C7305	F1J1H103A834	C 0.01UF, 50V	
	C7306	F1J1E105A231	C 1UF, 25V	
	C7307	F1J1H104A717	C 0.1UF, 50V	
	C7308	F1J1H474A757	C 0.47UF, 50V	
	C7309	F1J1C1050028	C 1UF, 16V	
	C7310	F1A3A471A060	C 470PF, 1KV	
	C7311	F1J1H681A834	C 680PF, 50V	
	C7312	F0C2K393A035	P 0.039UF, 800V	
	C7313	F1A2E471A003	C 470PF, 250V	
	C7315	F1A3A100A058	C 10PF, 1KV	
	C7316	F1A3A100A058	C 10PF, 1KV	
	C7317	F1A3A101A060	C 100PF, 1KV	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7318	F1J1H101A836	C 100PF, 50V	
	C7401	F2A2W2200020	E 22UF, 450V	
	C7402	ECQE2103KF	P 0.01UF, 250V	
	C7404	F1J1H474A757	C 0.47UF, 50V	
	C7405	F1J1H103A834	C 0.01UF, 50V	
	C7406	F2A1H220A115	E 22UF, 50V	
	C7407	F2A1E101A089	E 100UF, 25V	
	C7409	F1J1H471A834	C 470PF, 50V	
	C7411	F1A2E102A004	C 1000PF, 250V	
	C7412	F1A2E102A004	C 1000PF, 250V	
	C7420	ECQE6103KF	P 0.01UF, 630V	
	C7421	F1J1H103A834	C 0.01UF, 50V	
	C7501	F1J1E224A227	C 0.22UF, 25V	
	C7502	F2A1E102A100	E 1000UF, 25V	
	C7503	F2A1V102A465	C 1000UF, 25V	
	C7505	F2A1V102A465	C 1000UF, 25V	
	C7506	F1J1H104A717	C 0.1UF, 50V	
	C7507	F1J1H104A717	C 0.1UF, 50V	
	C7508	F2A1C222A117	E 2200UF, 16V	
	C7510	F1A3A102A060	C 1000PF, 1KV	
	C7511	F1A3A102A060	C 1000PF, 1KV	
	C7512	F1A3A102A060	C 1000PF, 1KV	
	C7513	F1A3A102A060	C 1000PF, 1KV	
	C7514	F1J1H102A834	C 1000PF, 50V	
	C7515	F1J1H102A834	C 1000PF, 50V	
	C7516	F1J1H102A834	C 1000PF, 50V	
	C7517	F2A1E102A100	E 1000UF, 25V	
	C7518	F1A3A102A060	C 1000PF, 1KV	
	C7601	F2A1A102A118	E 1000UF, 10V	
	C7602	F1J1H474A757	C 0.47UF, 50V	
	C7605	F1J1H104A717	C 0.1UF, 50V	
	C7606	F1J1H104A717	C 0.1UF, 50V	
	C7607	F1A3A102A060	C 1000PF, 1KV	
	C7701	F1J1E105A231	C 1UF, 25V	
	C7702	F1J1H104A717	C 0.1UF, 50V	
	C7703	F1J1E3340003	C 0.33UF, 25V	
	C7754	F1J1H102A834	C 1000PF, 50V	
	C8001	F1H0J1050013	C 1UF, 6.3V	
	C8002	F1H0J1050013	C 1UF, 6.3V	
	C8003	F1G1C104A081	C 0.1UF, 16V	
	C8004	F1G1C104A081	C 0.1UF, 16V	
	C8005	F1G1C104A081	C 0.1UF, 16V	
	C8006	F1G1C104A081	C 0.1UF, 16V	
	C8007	F1G1H6R0A732	C 6PF, 50V	
	C8008	F1G1H7R0A732	C 7PF, 50V	
	C8009	F1J1A475A087	C 4.7UF, 10V	
	C8011	F1G1C104A081	C 0.1UF, 16V	
	C8012	F1G1C104A081	C 0.1UF, 16V	
	C8013	F1G1C104A081	C 0.1UF, 16V	
	C8014	F1G1C104A081	C 0.1UF, 16V	
	C8015	F1G1C151A117	C 150PF, 16V	
	C8016	F1G1C104A081	C 0.1UF, 16V	
	C8017	F1G1C104A081	C 0.1UF, 16V	
	C8018	F1G1C104A081	C 0.1UF, 16V	
	C8019	F1G1C104A081	C 0.1UF, 16V	
	C8020	F1G1C104A081	C 0.1UF, 16V	
	C8021	F1G1C104A081	C 0.1UF, 16V	
	C8022	F1G1C103A116	C 0.01UF, 16V	
	C8023	F1G1H5R0A564	C 5PF, 50V	
	C8024	F1G1E1030005	C 0.01UF, 25V	
	C8025	F1G1C5R0A118	C 5PF, 16V	
	C8026	F1G1E1030005	C 0.01UF, 25V	
	C8027	F1G1C104A081	C 0.1UF, 16V	
	C8028	F1G1C104A081	C 0.1UF, 16V	
	C8029	F1G1E153A103	C 0.015UF, 25V	
	C8030	F1J1A106A087	C 10UF, 10V	
	C8033	F1J1A106A087	C 10UF, 10V	
	C8034	F1G1C104A081	C 0.1UF, 16V	
	C8035	F1J1A106A087	C 10UF, 10V	
	C8036	F1G1C104A081	C 0.1UF, 16V	
	C8037	F1G1C104A081	C 0.1UF, 16V	
	C8038	F1G1C104A081	C 0.1UF, 16V	
	C8039	F1J1A106A087	C 10UF, 10V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8040	F1G1C104A081	C 0.1UF , 16V	
	C8041	F1J1A106A087	C 10UF , 10V	
	C8042	F1G1C104A081	C 0.1UF , 16V	
	C8043	F1G1A105A047	C 1UF , 10V	
	C8044	F1G1A105A047	C 1UF , 10V	
	C8045	F1G1A105A047	C 1UF , 10V	
	C8046	F1J0G2260001	C 220UF , 4V	
	C8047	F1G1C104A081	C 0.1UF , 16V	
	C8048	F1G1H1020008	C 1000PF , 50V	
	C8049	F1H0J1050013	C 1UF , 6.3V	
	C8050	F1G1C104A081	C 0.1UF , 16V	
	C8051	F1J1A106A087	C 10UF , 10V	
	C8053	F1G1C104A081	C 0.1UF , 16V	
	C8054	F1G1C104A081	C 0.1UF , 16V	
	C8056	F1G1C104A081	C 0.1UF , 16V	
	C8058	F1J1A106A087	C 10UF , 10V	
	C8059	F1H0J1050013	C 1UF , 6.3V	
	C8060	F1G1C104A081	C 0.1UF , 16V	
	C8061	F1G1H1020008	C 1000PF , 50V	
	C8062	F1G1C104A081	C 0.1UF , 16V	
	C8063	F1G1H1020008	C 1000PF , 50V	
	C8064	F1H0J1050013	C 1UF , 6.3V	
	C8065	F1G1C104A081	C 0.1UF , 16V	
	C8067	F1H0J1050013	C 1UF , 6.3V	
	C8068	F1H0J1050013	C 1UF , 6.3V	
	C8069	F1G1C104A081	C 0.1UF , 16V	
	C8070	F1G1H1020008	C 1000PF , 50V	
	C8071	F1G1C104A081	C 0.1UF , 16V	
	C8073	F1G1C104A081	C 0.1UF , 16V	
	C8074	F1G1H1020008	C 1000PF , 50V	
	C8075	F1G1C104A081	C 0.1UF , 16V	
	C8078	F1H0J1050013	C 1UF , 6.3V	
	C8079	F1H0J1050013	C 1UF , 6.3V	
	C8080	F1H0J1050013	C 1UF , 6.3V	
	C8081	F1H0J1050013	C 1UF , 6.3V	
	C8082	F1J1A106A087	C 10UF , 10V	
	C8097	F1J1A106A087	C 10UF , 10V	
	C8101	F1G1C104A081	C 0.1UF , 16V	
	C8102	F1G1H5R0A564	C 5PF , 50V	
	C8104	F1G1H1020008	C 1000PF , 50V	
	C8105	F1G1H1020008	C 1000PF , 50V	
	C8110	F1G1C104A081	C 0.1UF , 16V	
	C8111	F1J1A106A087	C 10UF , 10V	
	C8112	F1G1H1020008	C 1000PF , 50V	
	C8113	F1H0J1050013	C 1UF , 6.3V	
	C8116	F1G1C104A081	C 0.1UF , 16V	
	C8120	F1G1C104A081	C 0.1UF , 16V	
	C8121	F1G1H1020008	C 1000PF , 50V	
	C8127	F1G1C104A081	C 0.1UF , 16V	
	C8130	F1G1C104A081	C 0.1UF , 16V	
	C8131	F1G1H1020008	C 1000PF , 50V	
	C8132	F1H0J1050013	C 1UF , 6.3V	
	C8133	F1G1H1020008	C 1000PF , 50V	
	C8136	F1G1C104A081	C 0.1UF , 16V	
	C8139	F1G1C104A081	C 0.1UF , 16V	
	C8140	F1G1H1020008	C 1000PF , 50V	
	C8141	F1G1C104A081	C 0.1UF , 16V	
	C8143	F1G1A105A047	C 1UF , 10V	
	C8144	F1G1A105A047	C 1UF , 10V	
	C8145	F1G1C104A081	C 0.1UF , 16V	
	C8146	F1G1H1020008	C 1000PF , 50V	
	C8147	F1G1C104A081	C 0.1UF , 16V	
	C8148	F1G1H1020008	C 1000PF , 50V	
	C8303	F1G1H1020008	C 1000PF , 50V	
	C8304	F1H0J1050013	C 1UF , 6.3V	
	C8305	F1G1H221A541	C 220PF , 50V	
	C8306	F1G1H152A571	C 1500PF , 50	
	C8307	F1G1H222A571	C 2200PF , 50V	
	C8308	F1G1C104A081	C 0.1UF , 16V	
	C8312	F1G1H181A541	C 180PF , 50V	
	C8313	F1G1C104A081	C 0.1UF , 16V	
	C8314	F1G1C104A081	C 0.1UF , 16V	
	C8315	F1G1H1020008	C 1000PF , 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8324	F2H0J221A055	C 220UF , 6.3V	
	C8349	F1G1H1020008	C 1000PF , 50V	
	C8350	F1G1C104A081	C 0.1UF , 16V	
	C8351	F1G1H1020008	C 1000PF , 50V	
	C8352	F1G1C104A081	C 0.1UF , 16V	
	C8353	F1H0J1050013	C 1UF , 6.3V	
	C8355	F1H0J1050013	C 1UF , 6.3V	
	C8370	F1G1C104A081	C 0.1UF , 16V	
	C8501	F1G1C104A081	C 0.1UF , 16V	
	C8503	F1G1C104A081	C 0.1UF , 16V	
	C8504	F1G1C104A081	C 0.1UF , 16V	
	C8505	F1G1C104A081	C 0.1UF , 16V	
	C8506	F1G1C104A081	C 0.1UF , 16V	
	C8512	F2H1C470A041	E 47UF , 16V	
	C8513	F1G1C104A081	C 0.1UF , 16V	
	C8514	F1G1E1030005	C 0.01UF , 25V	
	C8515	F1J1A106A087	C 10UF , 10V	
	C8517	F1J1A106A087	C 10UF , 10V	
	C8519	F1H0J1050013	C 1UF , 6.3V	
	C8520	F1G1C104A081	C 0.1UF , 16V	
	C8851	F1H1A105A025	C 1UF , 10V	
	C8852	F1H1A105A025	C 1UF , 10V	
	C9900	F1J1C475A170	C 4.7UF , 10V	
	C9903	F1G1C104A081	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	
	D2144	B0JCME000076	DIODE	
	D2145	B0ACCCJ000051	DIODE	
	D2300	B0BC01100001	DIODE	
	D2500	B3AGB0000057	DIODE	
	D4102	EZJZ0V120JA	VARISTOR	
	D4503	EZAEG2A50AX	FILTER	
	D4504	DZ2J056M0L	DIODE	
	D4505	DZ2J056M0L	DIODE	
	D4506	EZAEG2A50AX	FILTER	
	D4507	EZAEG2A50AX	FILTER	
	D4508	EZAEG2A50AX	FILTER	
	D4509	DZ2J056M0L	DIODE	
	D4510	EZAEG2A50AX	FILTER	
	D4511	EZAEG2A50AX	FILTER	
	D4703	B0JCME000076	DIODE	
	D4705	B0ACCCJ000051	DIODE	
	D4706	B0JCME000076	DIODE	
	D4707	B0ACCCJ000051	DIODE	
	D5419	B0BC03600022	DIODE	
	D5600	B0ADEJ000035	DIODE	
	D5629	B0BC8R100004	DIODE	
	D5633	B0ACCCJ000051	DIODE	
	D5670	B0ACCCJ000051	DIODE	
	D5671	B0ACCCJ000051	DIODE	
	D5765	B0HCOMM000014	DIODE	
	D5770	B0JCPG000030	DIODE	
	D5771	B0JCPG000030	DIODE	
	D5772	B0JCPG000030	DIODE	
⚠	D7001	ERZV10V621CS	VARISTOR	
⚠	D7002	ERZV10V621CS	VARISTOR	
	D7102	B0FBAT000017	DIODE	
	D7204	B0FABR000004	DIODE	
	D7207	B0EAKT000012	DIODE	
	D7208	B0JAME000091	DIODE	
	D7209	B0JAME000058	DIODE	
	D7210	B0AACK000004	DIODE	
	D7301	B0JAME000099	DIODE	
	D7302	B0HAGV000004	DIODE	
	D7305	B0BC03900015	DIODE	
	D7306	B0JAME000099	DIODE	
	D7307	B0JAME000099	DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7308	B0BC03900015	DIODE	
	D7309	B0BC03900015	DIODE	
	D7310	B0BC03900015	DIODE	
	D7311	B0BC03900015	DIODE	
	D7312	B0ECKM000048	DIODE	
	D7313	B0BC01100001	DIODE	
	D7314	B0JAME000091	DIODE	
	D7315	B0BC01400017	DIODE	
	D7323	B0AACK000004	DIODE	
	D7401	B0EAKR000016	DIODE	
	D7402	B0EAKT000019	DIODE	
	D7403	B0HAGQ000001	DIODE	
	D7404	B0HAGQ000001	DIODE	
	D7405	B0JAME000091	DIODE	
	D7407	B0EBKT000007	DIODE	
	D7408	B0EAKT000019	DIODE	
	D7409	B0BC01400017	DIODE	
	D7420	B0HAGQ000001	DIODE	
	D7501	B0JBSL000023	DIODE	
	D7503	B0JBSL000026	DIODE	
	D7504	B0JBSL000026	DIODE	
	D7518	B0JBSL000026	DIODE	
	D7601	B0BA01000070	DIODE	
	D7603	B0JAPK000011	DIODE	
	D7702	B0ACCG000051	DIODE	
	D7704	B0ACCG000051	DIODE	
	D7705	B0BC8R100004	DIODE	
	D7753	B0BC01400017	DIODE	
	D8300	B0ACCG000051	DIODE	
		INTEGRATED CIRCUITS		
	IC2106	C1AB00003069	IC	
	IC2108	C1AB00003240	IC	
	IC2109	C1AB00002428	IC	
	IC2110	C0JBAB0000854	IC	
	IC2300	C0CBZZE00001	IC	
	IC4700	C1ZBZ0004161	IC	
	IC4702	C0ABBB000230	IC	
	IC5605	C0DBAGF00030	IC	
	IC5606	C0DBAYY00755	IC	
	IC5607	C0DBGYY00887	IC	
	IC5608	C0DBAYY00755	IC	
	IC5609	C0DBGYY00887	IC	
	IC5610	C0DBAYY00755	IC	
	IC5613	C0DBEYG00002	IC REGULATOR	
	IC7201	C0DBBZG00004	IC	
	IC7301	C0DABYY00025	IC	
	IC7401	C0DABYY00018	IC	
	IC7501	C0DBZMC00006	IC	
	IC7601	C0DBZMC00006	IC	
	IC8001	C1AB00003250	IC	
	IC8002	C3ABS0000036	IC	
	IC8004	TVR4G162-AA	EEPROM IC (C3EBGY000026)	
	IC8502	TVR4G113	ROM IC (C3FBQD000024)	
	IC8503	TVR4G166-AA	EEPROM IC (C3EBKY000014)	
	IC8850	C0DBGYY00203	IC	
		COILS		
	L2110	J0JCC0000287	COIL	
	L2111	J0JCC0000287	COIL	
	L2120	J0JCC0000364	BEAD COIL	
	L2121	J0JCC0000364	BEAD COIL	
	L2123	J0JCC0000287	COIL	
	L2125	J0JCC0000287	COIL	
	L2126	J0JYC0000068	COIL	
	L2127	J0JYC0000068	COIL	
	L2128	G1C330MA0457	COIL	
	L2129	G1C330MA0457	COIL	
	L2130	G1C330MA0457	COIL	
	L2131	G1C330MA0457	COIL	
	L2134	J0JHC0000075	BEAD COIL	
	L2135	ELJFC2R2KFB	CHIP INDUCTOR	
	L4210	J0JYC0000322	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L4500	J0JYC0000068	COIL	
	L4501	J0JYC0000068	COIL	
	L4502	J0JYC0000068	COIL	
	L4503	J0JYC0000068	COIL	
	L4504	J0JYC0000068	COIL	
	L4505	J0JYC0000068	COIL	
	L4506	J0JYC0000068	COIL	
	L4507	J0JYC0000068	COIL	
	L4508	J0JYC0000068	COIL	
	L4511	J0JYC0000068	COIL	
	L4512	J0JYC0000068	COIL	
	L4513	J0JYC0000068	COIL	
	L5609	G1C6R8MA0457	COIL	
	L5610	G1C100MA0457	COIL	
	L5611	G1C220MA0457	COIL	
	L5613	J0JHC0000075	BEAD COIL	
	L7300	J0JKB0000034	EMI FILTER	
	L7401	EXCELDR35V	CORE	
	L7402	EXCELDR35V	CORE	
	L8000	J0JYC0000322	COIL	
	L8002	J0JYC0000322	COIL	
	L8003	J0JYC0000322	COIL	
	L8004	J0JYC0000322	COIL	
	L8005	J0JYC0000322	COIL	
	L8006	J0JYC0000322	COIL	
	L8007	ERJ2GEJ1R0X	RESISTOR	
	L8008	J0JYC0000322	COIL	
	L8009	J0JYC0000322	COIL	
	L8010	J0JYC0000322	COIL	
	L8011	J0JYC0000322	COIL	
	L8012	J0JYC0000322	COIL	
	L8013	J0JYC0000322	COIL	
	L8014	J0JYC0000322	COIL	
	L8016	J0JYC0000322	COIL	
	L8017	J0JYC0000322	COIL	
	L8302	J0JGC0000070	BEAD CORE	
	L8306	J0JYC0000322	COIL	
	L8315	J0JCC0000269	COIL	
	L8500	J0JYC0000322	COIL	
	L8501	J0JYC0000322	COIL	
		TRANSISTORS		
	Q2101	B1ABCF000231	TRANSISTOR	
	Q2102	B1ABCF000231	TRANSISTOR	
	Q2109	DSC2001S0L	TRANSISTOR	
	Q2110	DSC2001S0L	TRANSISTOR	
	Q2111	DSA2001S0L	TRANSISTOR	
	Q2112	DSC2001S0L	TRANSISTOR	
	Q2113	DSC2001S0L	TRANSISTOR	
	Q2145	B1ABCF000231	TRANSISTOR	
	Q2246	B1ABCF000231	TRANSISTOR	
	Q2247	B1ABCF000231	TRANSISTOR	
	Q2500	B1ABCF000231	TRANSISTOR	
	Q2501	B1ABCF000231	TRANSISTOR	
	Q2504	B1ABCF000231	TRANSISTOR	
	Q2760	B1ABCF000231	TRANSISTOR	
	Q2761	B1ABCF000231	TRANSISTOR	
	Q4500	DSC2001S0L	TRANSISTOR	
	Q4501	DSC2001S0L	TRANSISTOR	
	Q4502	DSC2001S0L	TRANSISTOR	
	Q4513	B1ADCE000022	TRANSISTOR	
	Q4514	B1HFCFA00026	TRANSISTOR	
	Q4700	DSA200100L	TRANSISTOR	
	Q4702	DSC2001S0L	TRANSISTOR	
	Q4703	DSC2001S0L	TRANSISTOR	
	Q4704	DSC2001S0L	TRANSISTOR	
	Q4705	DSC2001S0L	TRANSISTOR	
	Q4706	DSC2001S0L	TRANSISTOR	
	Q4707	DSC2001S0L	TRANSISTOR	
	Q5412	B1CHRE000005	TRANSISTOR	
	Q5431	B1ABCF000231	TRANSISTOR	
	Q5602	B1ADCE000022	TRANSISTOR	
	Q5612	B1ABCF000231	TRANSISTOR	
	Q5613	B1ABCF000231	TRANSISTOR	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	Q5615	B1ABGC000011	TRANSISTOR	
	Q5616	DSC2001S0L	TRANSISTOR	
	Q7208	B1DEGR000060	TRANSISTOR	
	Q7209	B1DEGR000060	TRANSISTOR	
	Q7210	B1BCCF000022	TRANSISTOR	
	Q7301	B1CERQ000060	TRANSISTOR	
	Q7302	B1CERQ000060	TRANSISTOR	
	Q7303	DSC200100L	TRANSISTOR	
	Q7420	DSC2001S0L	TRANSISTOR	
	Q7421	DSC2001S0L	TRANSISTOR	
	Q7701	B1CHRC000010	TRANSISTOR	
	Q7702	DSC200100L	TRANSISTOR	
	Q7703	B1ABGF000019	TRANSISTOR	
	Q7704	DSC200100L	TRANSISTOR	
	Q7754	B1ADGJ000008	TRANSISTOR	
	Q8002	B1ABCF000231	TRANSISTOR	
	Q8003	B1ABCF000231	TRANSISTOR	
	Q8005	B1CBGD000001	TRANSISTOR	
	Q8301	DSA2001S0L	TRANSISTOR	
	Q8302	DSA2001S0L	TRANSISTOR	
	Q8303	B1ABCF000231	TRANSISTOR	
	Q8304	B1ABCF000231	TRANSISTOR	
	Q8305	B1ADCE000022	TRANSISTOR	
	Q8306	B1ADCE000022	TRANSISTOR	
	Q8307	B1ABCF000231	TRANSISTOR	
	Q8308	DSA2001S0L	TRANSISTOR	
	Q8309	DSC2001S0L	TRANSISTOR	
	Q8310	DSC2001S0L	TRANSISTOR	
	Q9900	DSC200100L	TRANSISTOR	
	Q9901	DSA200100L	TRANSISTOR	
	Q9902	DSC200100L	TRANSISTOR	
	Q9904	DSC200100L	TRANSISTOR	
		RESISTORS		
	R1179	D1BB7151A012	M 75OHM , 1/10W	
	R1180	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R2104	D0GB473JA065	C 47KOHM ,J, 1/10W	
	R2105	D0GB473JA065	C 47KOHM ,J, 1/10W	
	R2106	D0GB103JA065	C 10KOHM ,J, 1/10W	
	R2107	D0GB103JA065	C 10KOHM ,J, 1/10W	
	R2114	D1BB75R0A012	75OHM , 1/10W	
	R2115	D1BB75R0A012	75OHM , 1/10W	
	R2116	D1BB75R0A012	75OHM , 1/10W	
	R2117	ERJ2GEJ470X	47OHM , 1/10W	
	R2118	ERJ2GEJ470X	47OHM , 1/10W	
	R2119	ERJ2GEJ470X	47OHM , 1/10W	
	R2122	ERJ2GEJ221X	220OHM , 1/10W	
	R2123	D1BB3302A012	C 33KOHM , 1/10W	
	R2124	D1BB3302A012	C 33KOHM , 1/10W	
	R2130	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R2156	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2157	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2158	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2159	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R2160	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R2164	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R2184	ERJ2GEJ220X	F 22OHM ,J, 1/10W	
	R2185	ERJ2GEJ220X	F 22OHM ,J, 1/10W	
	R2198	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R2199	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R2200	D1BB75R0A012	75OHM , 1/10W	
	R2201	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2205	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2206	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2207	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2208	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2209	D0GA101JA023	100OHM ,J, 1/10W	
	R2210	D0GA101JA023	100OHM ,J, 1/10W	
	R2211	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R2212	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R2213	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R2218	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R2219	ERJ14YJ220U	22OHM ,J, 1/2W	
	R2220	ERJ14YJ220U	22OHM ,J, 1/2W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2221	ERJ14YJ220U	22OHM ,J, 1/2W	
	R2222	ERJ14YJ220U	22OHM ,J, 1/2W	
	R2223	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R2224	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2225	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R2227	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2239	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R2256	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2258	D1BB75R0A012	75OHM , 1/10W	
	R2260	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2265	D1BB75R0A012	75OHM , 1/10W	
	R2280	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2281	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2283	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2284	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2285	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2286	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2287	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2288	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2289	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2290	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R2298	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2299	D1BB75R0A012	75OHM , 1/10W	
	R2300	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R2303	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R2309	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R2310	D1BB75R0A012	75OHM , 1/10W	
	R2311	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R2312	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2314	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2315	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2317	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2318	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2324	ERJ2GEJ471X	470OHM ,J, 1/10W	
	R2325	ERJ2GEJ471X	470OHM ,J, 1/10W	
	R2326	D1BB2212A012	22.1KOHM ,J, 1/10W	
	R2327	D0GBR00J0004	0 OHM ,J, 1/10W	
	R2329	D1BA1822A023	18.2KOHM ,J, 1/10W	
	R2330	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2331	D0GF3R3JA048	3.3OHM ,J, 1/10W	
	R2332	D0GF3R3JA048	3.3OHM ,J, 1/10W	
	R2333	D0GF3R3JA048	3.3OHM ,J, 1/10W	
	R2334	D0GF3R3JA048	3.3OHM ,J, 1/10W	
	R2335	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2339	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2342	J0JBC0000116	0 OHM ,J, 1/10W	
	R2343	J0JBC0000116	0 OHM ,J, 1/10W	
	R2344	J0JBC0000116	0 OHM ,J, 1/10W	
	R2345	J0JBC0000116	0 OHM ,J, 1/10W	
	R2348	ERJ2GEJ303X	30KOHM ,J, 1/10W	
	R2356	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2357	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2360	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2361	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2362	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2363	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2364	ERJ2GEJ105X	F 1MOHM ,J, 1/10W	
	R2366	ERJ3GEYJ101	M 100OHM ,J, 1/16W	
	R2367	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2376	ERJ6ENF75R0	M 75OHM , 1/10W	
	R2377	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R2378	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2384	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2385	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2386	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2387	D0GAR00J0005	0 OHM ,J, 1/10W	
	R2391	D1BB75R0A012	75OHM , 1/10W	
	R2500	ERJ2RKF3000X	C 300OHM , 1/10W	
	R2502	D0GA473JA015	C 470OHM ,J, 1/10W	
	R2504	D0GA223JA015	C 22KOHM ,J, 1/10W	
	R2507	D0GA473JA015	C 470OHM ,J, 1/10W	
	R2508	D0GA103JA015	C 10KOHM ,J, 1/10W	
	R2509	ERJ2RKF1101X	C 1.1KOHM ,K, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2512	D0GA470JA015	C 47KOHM ,J, 1/10W	
	R2514	ERJ2RKF1802X	18.0KOHM ,K, 1/10W	
	R2515	ERJ2RKF4702X	47.0KOHM ,K, 1/10W	
	R2516	D0GA473JA015	C 470OHM ,J, 1/10W	
	R2517	D0GA104JA015	F 100KOHM ,J, 1/10W (V BOARD)	
	R2517	D0GAR00J0005	100KOHM ,J, 1/10W (A BOARD)	
	R2518	D0GA103JA015	C 10KOHM ,J, 1/10W	
	R2600	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R2601	D1BD1741A044	C 1.74KOHM ,J, 1/10W	
	R2602	D1BD7151A044	C 7.15KOHM ,J, 1/10W	
	R2603	D1BD6651A044	C 6.65KOHM ,J, 1/10W	
	R2604	D1BD1432A044	C 14.3KOHM ,J, 1/10W	
	R2701	D0GBR00J0004	C 0OHM ,J, 1/10W	
	R2703	D0GBR00J0004	C 0OHM ,J, 1/10W	
	R2757	ERJ2GEJ182X	1.8KOHM ,J, 1/10W	
	R2759	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2760	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2761	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2762	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R2763	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R2764	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R2765	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2766	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R2767	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R2769	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R2770	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R2779	D0GDR00JA017	C 0OHM ,J, 1/10W	
	R3015	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3016	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3017	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3026	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3027	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3124	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3125	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3126	D0GAR00J0005	0 OHM ,J, 1/10W	
	R3256	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4215	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4220	EXB28VR000X	C 0OHM ,J, 1/10W	
	R4224	EXB28VR000X	C 0OHM ,J, 1/10W	
	R4226	EXB28VR000X	C 0OHM ,J, 1/10W	
	R4232	EXB28VR000X	C 0OHM ,J, 1/10W	
	R4238	EXB28VR000X	C 0OHM ,J, 1/10W	
	R4358	D0GA912JA023	C 9.1KOM ,J, 1/10W	
	R4359	D0GA332JA023	C 3.3KOM ,J, 1/10W	
	R4502	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4503	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4504	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4505	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4506	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4507	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4509	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4512	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4515	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R4516	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4519	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R4520	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R4525	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R4526	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R4527	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R4548	ERJ2GEJ220X	F 22OHM ,J, 1/10W	
	R4549	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R4550	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R4555	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4557	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R4558	ERJ2GEJ560X	56OHM ,J, 1/10W	
	R4563	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4565	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4566	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4567	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4601	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4602	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4703	D0GD100JA017	M 10OHM ,J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4704	D0GD150JA052	C 15OHM ,J, 1/10W	
	R4708	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4711	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R4712	ERJ2GEJ221X	220OHM ,J, 1/10W	
	R4715	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4716	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4717	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4729	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4730	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4731	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4739	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4740	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4745	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4748	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4752	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4753	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4762	EXB2HV220JV	22OHM ,J, 1/10W	
	R4774	D0GBR00J0004	C 0OHM ,J, 1/10W	
	R4776	D0GBR00J0004	C 0OHM ,J, 1/10W	
	R4780	EXB2HV220JV	22OHM ,J, 1/10W	
	R4781	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R4782	ERJ2GEJ182X	1.8KOHM ,J, 1/10W	
	R4786	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4787	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4791	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R4793	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R4794	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R4795	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R4796	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R4802	EXB2HV220JV	22OHM ,J, 1/10W	
	R4806	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4809	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4817	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4818	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R4820	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R4821	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4822	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R4830	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R4831	ERJ2GEJ104X	F 100KOHM ,J, 1/10W	
	R4833	ERJ2GEJ183X	F 18KOHM ,J, 1/10W	
	R4834	ERJ2GEJ221X	220OHM ,J, 1/10W	
	R4848	D0GAR00Z0001	C 0OHM ,J, 1/10W	
	R4861	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R4869	D0GAR00J0005	C 0OHM ,J, 1/10W	
	R4955	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R4958	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R4974	D1BA1601A023	C 1.6KOHM ,J, 1/10W	
	R5431	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R5432	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R5433	ERJ2GEJ333X	33KOHM ,J, 1/10W	
	R5434	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R5435	ERJ12YJ471U	M 470OHM ,J, 1/2W	
	R5605	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R5606	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R5607	ERJ2GEJ152X	1.5KOHM ,J, 1/10W	
	R5608	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R5610	ERJ2GEJ471X	470OHM ,J, 1/10W	
	R5667	D1BB4301A074	C 4.3KOHM ,J, 1/10W	
	R5668	D1BB1002A074	C 10KOHM ,J, 1/10W	
	R5669	D1BA2201A023	C 2.2KOHM ,J, 1/10W	
	R5670	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R5671	ERJ2GEJ683X	68KOHM ,J, 1/10W	
	R5672	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R5673	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R5674	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R5675	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R5676	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R5678	D1BB9101A074	C 9.1KOHM , 1/10W	
	R5679	D1BB1002A074	C 10KOHM , 1/10W	
	R5680	D1BA2201A023	C 2.2KOHM , 1/10W	
	R5681	D1BB4702A074	C 47KOHM ,J, 1/10W	
	R5682	D1BB1002A074	C 10KOHM , 1/10W	
	R5683	D1BA6801A023	C 6.8KOHM , 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5694	ERJ2GEJ471X	470OHM ,J, 1/10W	
	R5696	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R5697	D0GB332JA065	C 3.3KOM ,J, 1/10W	
	R5701	D1BA20010002	2KOHM ,1/10W	
	R5702	D1BA1001A023	C 1KOHM ,J, 1/10W	
	R5705	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R5706	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R5707	D0GB150JA065	C 15OHM ,J, 1/10W	
	R5708	D0GB150JA065	C 15OHM ,J, 1/10W	
	R5709	D0GB150JA065	C 15OHM ,J, 1/10W	
	R5710	D0GB2R2JA065	C 2.2KOHM ,J, 1/10W	
	R5711	D0GB2R2JA065	C 2.2OHM , 1/10W	
	R5712	D0GB2R2JA065	2.2OHM ,J, 1/10W	
	R5713	D1BB6201A074	C 6.2KOHM , 1/10W	
	R5714	D1BB1241A074	C 1.24KOHM ,J, 1/10W	
	R5715	D1BB4301A074	C 4.3KOHM , 1/10W	
⚠	R7001	ERC12ZGK105	S 1MOHM,K, 1/2W	
	R7110	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R7111	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R7206	D0GD223JA052	C 22KOHM ,J, 1/10W	
	R7208	D0GD684JA052	C 680KOHM ,J, 1/10W	
	R7209	D0GD684JA052	C 680KOHM ,J, 1/10W	
	R7210	D0GD684JA052	C 680KOHM ,J, 1/10W	
	R7211	D0GD684JA052	C 680KOHM ,J, 1/10W	
	R7212	D0GD303JA052	C 30KOHM ,J, 1/10W	
	R7213	D0GD393JA052	C 39KOHM ,J, 1/10W	
	R7214	ERJ6ENF1692	M16.9KOHM, 1/10W	
	R7215	ERDS2TJ101	C 100OHM,J, 1/4W	
	R7216	D0DSR10KA007	W 0.1OHM,K, 5W	
	R7217	ERG12SJ471	M 470OHM ,J, 1/10W	
	R7218	ERG12SJ220	M 22OHM, 1/2W	
	R7219	ERG12SJ220	M 22OHM, 1/2W	
	R7220	D0GD104JA052	C 100KOHM ,J, 1/4W	
	R7221	ERG2SJ330H	M 33OHM,J,2W	
	R7222	ERG2SJ330H	M 33OHM,J,2W	
	R7223	ERJ6ENF6343	C 634KOHM ,J, 1/8W	
	R7224	ERJ6ENF6343	C 634KOHM ,J, 1/8W	
	R7225	ERJ6ENF6343	C 634KOHM ,J, 1/8W	
	R7226	ERJ6ENF6343	C 634KOHM ,J, 1/8W	
	R7301	ERG12SJ330	M 33OHM,J,2W	
	R7302	ERJ6ENF4700	M 470OHM, 1/10W	
	R7303	ERDS2TJ105	C 1MOHM,J, 1/4W	
	R7304	ERJ6ENF2200	M 220OHM, 1/10W	
	R7305	ERDS2TJ105	C 1MOHM,J, 1/4W	
	R7306	ERDS2TJ105	C 1MOHM,J, 1/4W	
	R7307	ERJ6RBD363	C 36KOHM ,J, 1/10W	
	R7308	D0GD561JA052	C 560OHM ,J, 1/10W	
	R7309	D0GF101JA048	C 100OHM,J, 1/4W	
	R7310	D0GD104JA052	C 100KOHM,J, 1/10W	
	R7313	ERDS2TJ104	C 100KOHM,J, 1/4W	
	R7314	ERDS2TJ104	C 100KOHM,J, 1/4W	
	R7315	ERJ6RBD473	C 47KOHM ,J, 1/10W	
	R7317	D0GF101JA048	C 100OHM,J, 1/10W	
	R7318	D0GF100JA048	C 10OHM ,J, 1/10W	
	R7319	ERG12SJ100	M 10OHM,J,1/2W	
	R7321	D0GD104JA052	C 100KOHM,J, 1/10W	
	R7322	D0XB106J0003	10MOHM ,J, 1W	
	R7323	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R7401	ERF2AJ120P	12OHM ,J, 2W	
	R7402	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7403	ERX12SJ3R3V	M 3.3OHM ,J, 1/2W	
	R7404	ERX12SJ3R3V	M 3.3OHM ,J, 1/2W	
	R7405	ERG12SJ220	M 22OHM , J, 1/2W	
	R7406	D0GD222JA052	C 2.2KOHM ,J, 1/10W	
	R7407	D0GD101JA052	C 100OHM ,J, 1/10W	
	R7408	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7409	ERJ12YJ474U	470KOHM ,J, 1/2W	
	R7410	D0GD474JA052	C 47KOHM ,J, 1/10W	
	R7411	D0GD393JA052	C 39KOHM ,J, 1/10W	
	R7413	ERG2SJ330H	M 33OHM,J,2W	
	R7420	D0GD753JA052	C 75KOHM ,J, 1/8W	
	R7421	D0GD753JA052	C 75KOHM ,J, 1/8W	
	R7422	D0GD753JA052	C 75KOHM ,J, 1/8W	

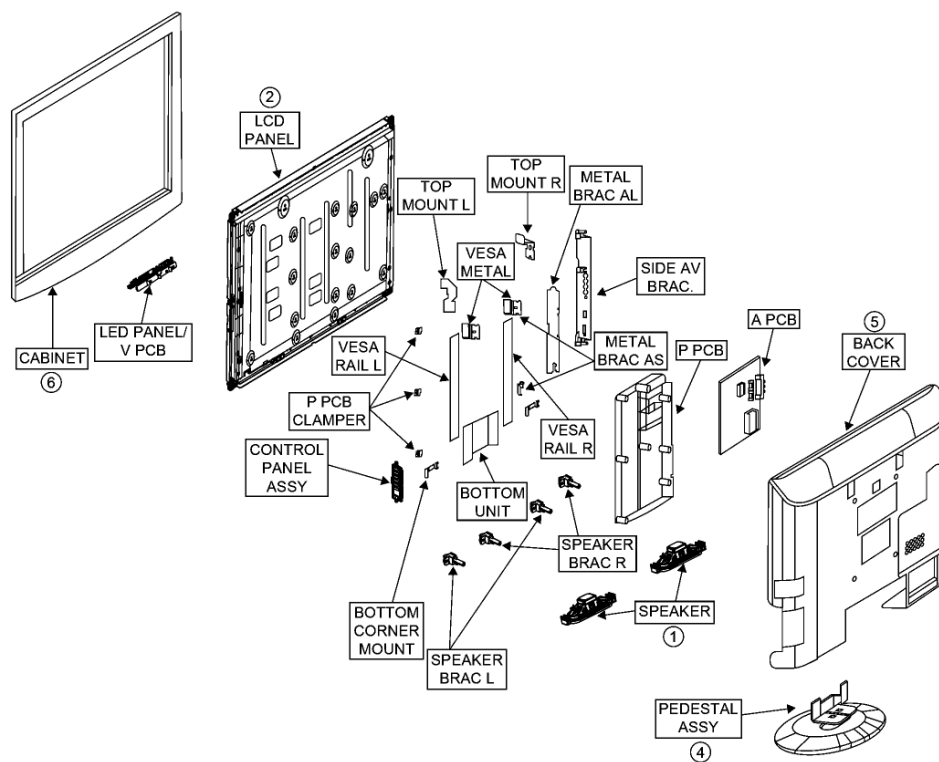
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R7423	D0GD753JA052	C 75KOHM ,J, 1/8W	
	R7424	D0GD753JA052	C 75KOHM ,J, 1/8W	
	R7425	D0GD753JA052	C 75KOHM ,J, 1/8W	
	R7426	D0GD183JA052	C 18KOHM ,J, 1/8W	
	R7427	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7428	D0GD100JA052	C 10OHM ,J, 1/8W	
	R7429	D0GD104JA052	C 100KOHM ,J, 1/8W	
	R7503	D0GD102JA052	C 1KOHM ,J, 1/10W	
	R7504	D0GD122JA052	C 1.2KOHM ,J, 1/10W	
	R7505	D0GD272JA052	C 2.7KOHM ,J, 1/10W	
	R7506	ERJ6RBD822	C 8.2KOHM ,J, 1/10W	
	R7507	ERJ6RBD271	C 270OHM ,J, 1/10W	
	R7508	ERJ6RBD222	C 2.2KOHM ,J, 1/10W	
	R7513	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R7514	D0GD103JA052	C 10KOHM ,J, 1/10W	
	R7516	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7517	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7518	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7519	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7520	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7521	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7522	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7523	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7524	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7525	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7526	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7527	D0GD113JA052	C 11KOHM ,J, 1/10W	
	R7601	D0GD102JA052	C 1KOHM ,J, 1/10W	
	R7602	D0GD151JA052	C 150OHM ,J, 1/10W	
	R7603	D0GDR00J0004	C 0OHM ,J, 1/10W	
	R7604	ERJ6ENF6801	M 6.8KOHM, 1/10W	
	R7605	ERJ6ENF4701	M 4.7KOHM, 1/10W	
	R7606	D0GD472JA052	C 4.7KOHM ,J, 1/10W	
	R7701	D0GD223JA052	C 22KOHM ,J, 1/10W	
	R7702	D0GD103JA052	C 10KOHM ,J, 1/10W	
	R7703	D0GD102JA052	C 1KOHM ,J, 1/10W	
	R7704	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7705	D0GD103JA052	C 10KOHM ,J, 1/10W	
	R7706	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7707	D0GD821JA052	C 820OHM ,J, 1/10W	
	R7708	D0GD473JA052	C 47KOHM ,J, 1/8W	
	R7710	D0GD124JA052	C 120KOHM ,J, 1/10W	
	R7711	D0GD101JA052	C 100OHM ,J, 1/10W	
	R7759	D0GD472JA052	C 4.7KOHM ,J, 1/10W	
	R7760	D0GD222JA052	C 2.2KOHM ,J, 1/10W	
	R7761	ERG2SJ330H	M 33OHM,J,2W	
	R7763	D0GD101JA052	C 100OHM,J, 1/4W	
	R8000	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R8001	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R8003	D1BA3010A023	301OHM ,J, 1/10W	
	R8004	D1BA4020A023	402OHM ,J, 1/10W	
	R8005	D1BA1020A023	102OHM ,J, 1/10W	
	R8006	D1BA4020A023	402OHM ,J, 1/10W	
	R8007	D1BA1020A023	102OHM ,J, 1/10W	
	R8008	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R8009	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R8010	EXB28V101JX	100OHM ,J, 1/10W	
	R8011	EXB28V101JX	100OHM ,J, 1/10W	
	R8012	EXB28V101JX	100OHM ,J, 1/10W	
	R8013	EXB28V101JX	100OHM ,J, 1/10W	
	R8014	EXB28V101JX	100OHM ,J, 1/10W	
	R8015	EXB28V101JX	100OHM ,J, 1/10W	
	R8016	EXB28V101JX	100OHM ,J, 1/10W	
	R8017	EXB28V101JX	100OHM ,J, 1/10W	
	R8018	EXB28V101JX	100OHM ,J, 1/10W	
	R8019	EXB28V101JX	100OHM ,J, 1/10W	
	R8023	ERJ2GEJ105X	F 1MOHM ,J, 1/10W	
	R8024	ERJ2GEJ152X	1.5KOHM ,J, 1/10W	
	R8025	D1BB2001A012	2KOHM ,J, 1/10W	
	R8026	D1BB2001A012	2KOHM ,J, 1/10W	
	R8027	D1BB2001A012	2KOHM ,J, 1/10W	
	R8029	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8030	D0GAR00J0005	0 OHM ,J, 1/10W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8037	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R8039	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8040	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8041	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8043	ERJ2GEJ473X	47KOHM ,J, 1/10W	
	R8044	ERJ2GEJ102X	1KOHM ,J, 1/10W	
	R8045	ERJ2GEJ473X	47KOHM ,J, 1/10W	
	R8048	ERJ2GEJ273X	27KOHM ,J, 1/10W	
	R8049	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8050	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8051	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8053	ERJ2GEJ102X	1KOHM ,J, 1/10W	
	R8054	ERJ2GEJ122X	1.2KOHM ,J, 1/10W	
	R8055	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R8056	ERJ2GEJ152X	1.5KOHM ,J, 1/10W	
	R8057	ERJ2GEJ152X	1.5KOHM ,J, 1/10W	
	R8058	ERJ2GEJ221X	220OHM ,J, 1/10W	
	R8062	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8068	ERJ2GEJ151X	150OHM ,J, 1/10W	
	R8079	ERJ2RKF73R2X	73.2OHM ,J, 1/10W	
	R8089	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8091	D1BA80R6A023	80.6OHM ,J, 1/10W	
	R8094	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8098	ERJ2GEJ472X	47KOHM ,J, 1/10W	
	R8099	ERJ2GEJ102X	1KOHM ,J, 1/10W	
	R8100	ERJ2GEJ223X	47KOHM ,J, 1/10W	
	R8101	ERJ2GEJ472X	47KOHM ,J, 1/10W	
	R8102	ERJ2GEJ472X	47KOHM ,J, 1/10W	
	R8106	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8302	ERJ2GEJ561X	560OHM ,J, 1/10W	
	R8305	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8306	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R8307	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8308	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8309	ERJ2GEJ750X	F 750OHM ,J, 1/10W	
	R8310	ERJ2GEJ474X	470KOHM ,J, 1/10W	
	R8311	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R8312	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8313	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R8314	ERJ2GEJ333X	33KOHM ,J, 1/10W	
	R8315	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R8316	ERJ2GEJ473X	47KOHM ,J, 1/10W	
	R8317	ERJ2GEJ473X	47KOHM ,J, 1/10W	
	R8318	ERJ2GEJ223X	22KOHM ,J, 1/10W	
	R8319	ERJ2GEJ393X	F 39KOHM ,J, 1/10W	
	R8320	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8321	ERJ2GEJ472X	47KOHM ,J, 1/10W	
	R8322	ERJ2GEJ472X	47KOHM ,J, 1/10W	
	R8323	ERJ2GEJ333X	33KOHM ,J, 1/10W	
	R8324	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8325	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8326	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8330	ERJ2GEJ222X	2.2KOHM ,J, 1/10W	
	R8331	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8332	ERJ2GEJ220X	F 22OHM ,J, 1/10W	
	R8333	ERJ2GEJ122X	1.2KOHM ,J, 1/10W	
	R8334	ERJ2GEJ471X	470OHM ,J, 1/10W	
	R8335	D0GDR00J0004	0 OHM ,J, 1/10W	
	R8336	ERJ2GEJ220X	F 22OHM ,J, 1/10W	
	R8337	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R8339	ERJ2GEJ221X	220OHM ,J, 1/10W	
	R8341	D0GD821JA052	820OHM ,J, 1/10W	
	R8350	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8400	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R8401	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R8406	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8501	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R8502	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8510	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8511	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8512	EXB2HV680JV	68OHM ,J, 1/16W	
	R8513	EXB2HV680JV	68OHM ,J, 1/16W	
	R8514	EXB2HV680JV	68OHM ,J, 1/16W	

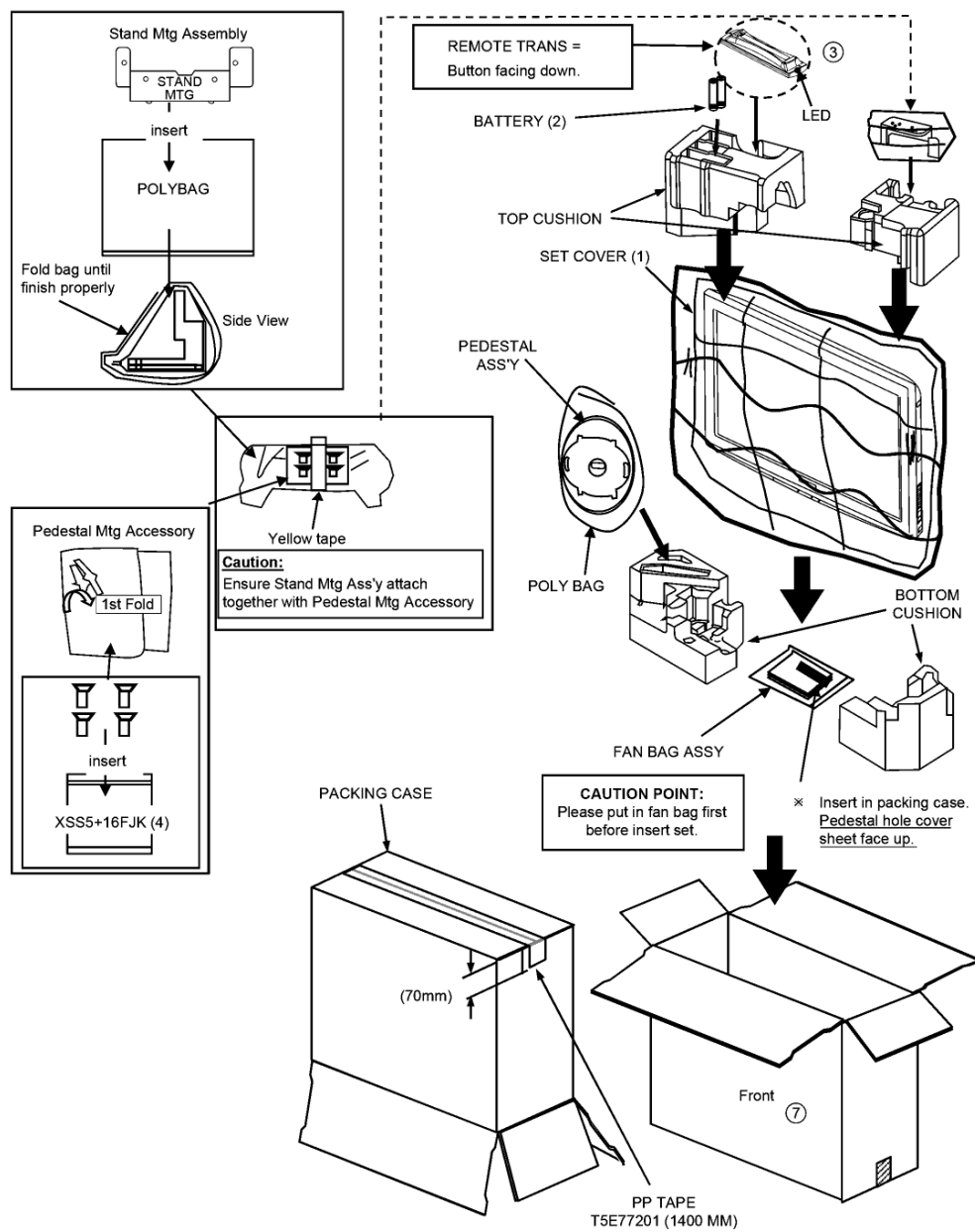
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R8515	EXB2HV680JV	68OHM ,J, 1/16W	
	R8516	EXB2HV680JV	68OHM ,J, 1/16W	
	R8521	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8522	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8523	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8528	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8530	EXB2HV330JV	33OHM ,J, 1/16W	
	R8531	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R8532	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R8533	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R8538	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8539	EXB2HV680JV	68OHM ,J, 1/16W	
	R8543	EXB2HV103JV	10KOHM ,J, 1/16W	
	R8546	ERJ2GEJ101X	100OHM ,J, 1/10W	
	R8547	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R8548	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R8557	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8560	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R8851	D1BA2201A023	2.2KOHM ,J, 1/10W	
	R8852	D0GAR00J0005	0 OHM ,J, 1/10W	
	R8853	D1BA1001A023	1KOHM ,J, 1/10W	
	R9901	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R9902	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R9903	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R9904	ERJ2GEJ302X	F 30KOHM ,J, 1/10W	
	R9907	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R9908	ERJ2GEJ102X	F 1KOHM ,J, 1/10W	
	R9909	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R9912	ERJ2GEJ103X	F 10KOHM ,J, 1/10W	
	R9915	ERJ2GEJ473X	F 47KOHM ,J, 1/10W	
	R9917	ERJ2GEJ472X	4.7KOHM , 1/10W	
	R9919	ERJ2GEJ272X	2.7KOHM ,J, 1/10W	
	R9922	ERJ2GEJ100X	10OHM ,J, 1/10W	
	R9923	ERJ2GEJ680X	68OHM ,J, 1/10W	
	R9927	D0GAR00J0005	0 OHM ,J, 1/10W	
		TRANSFORMERS		
△	T7201	ETS32CZ129AD	SWITCHING TRANSFORMER	
△	T7301	G4DYA0000225	TRANSFORMER	
△	T7401	G4DYA0000211	TRANSFORMER	
		OTHERS		
	A03	K1KA15AA0409	CONNECTOR	
	A04	K1KA04B00273	CONNECTOR	
	A10	K1KA08B00270	CONNECTOR	
	A11	K1KA04BA0055	CONNECTOR	
	A18	K1KA08AA0714	CONNECTOR	
	A21	K1KB51B00003	CONNECTOR	
	CF7101	D4CAY3R9A004	COIL	
	CF7102	D4CAY3R9A004	COIL	
△	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	
	FL4804	EXC28CE201U	CHOKE COIL	
	FL4805	EXC28CE201U	CHOKE COIL	
	JK2101C	K1U917A00001	AV TERMINAL	
	JK2102	K4AK10B00001	AV TERMINAL	
	JK2108	K1FY315AA001	CONNECTOR	
	JK4500	K1FY119E0015	CONNECTOR	
	JK4501	K1FY119D0012	CONNECTOR	
	JK4502	K1FY119D0012	CONNECTOR	
	JK8502	K1NA12E00017	CONNECTOR	
	JS1000	D0GAR00J0005	CHIP RESISTOR	
	JS1015	D0GAR00J0005	CHIP RESISTOR	
	K01	K1KA04BA0047	CONNECTOR	
△	LF7002	G0B802H00009	LINE FILTER	
△	LF7003	G0B802H00009	LINE FILTER	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	LF7004	G0B802H00009	LINE FILTER	
	P1	K1KY02A00001	CONNECTOR	
	P2	K1KA16AA0658	CONNECTOR	
	P3	K1KA10AA0191	CONNECTOR	
	P4	K1KA13AA0191	CONNECTOR	
	PA4202	ERBSE2R50U	FUSE	
	PA4803	ERBSE1R50U	FUSE	
	PA7501	B1ZAZ0000016	TRANSISTOR	
	PC7301	B3PAA0000363	PHOTO COUPLER	
	PC7401	B3PAA0000363	PHOTO COUPLER	
	PC7701	B3PAA0000363	PHOTO COUPLER	
⚠	RL7101	K6B1AYY00060	RELAY	
⚠	RL7102	K6B1AYY00060	RELAY	
	RM2500	B3RAD0000168	PHOTO DETECTOR	
	SN2500	B3JB00000046	PHOTO DETECTOR	
	SW2600	ESB33535XFD	POWER SWITCH	
	SW2601	K0H1BA000445	CONNECTOR	
	SW2602	K0H1BA000445	CONNECTOR	
	SW2603	K0H1BA000445	CONNECTOR	
	SW2604	K0H1BA000445	CONNECTOR	
	SW2605	K0H1BA000445	CONNECTOR	
⚠	TU8301	ENG39F02GF	TUNER	
	V10	K1KA07B00135	CONNECTOR	
	X8000	H0J250500094	CRYSTAL OSC	
	ZA5400	K4ZZ01000275	RUG TERMINAL	
	ZA5401	K4ZZ01000275	RUG TERMINAL	
	ZA5403	K4ZZ01000275	RUG TERMINAL	
	ZA5405	K4ZZ01000275	RUG TERMINAL	
	ZA5408	K4ZZ01000275	RUG TERMINAL	
	ZA5409	K4ZZ01000275	RUG TERMINAL	
	ZA5410	K4ZZ01000275	RUG TERMINAL	
	ZA5411	K4ZZ01000275	RUG TERMINAL	
	ZA5412	K4ZZ01000275	RUG TERMINAL	
	ZA5413	K4ZZ01000275	RUG TERMINAL	
	ZA5414	K4ZZ01000275	RUG TERMINAL	
	ZA5415	K4ZZ01000275	RUG TERMINAL	
	ZA5419	K4ZZ01000275	RUG TERMINAL	
	ZA7002	K4AD01A00002	CONNECTOR	
	ZA7003	K4AD01A00002	CONNECTOR	
	ZA7004	K4AD01A00002	CONNECTOR	

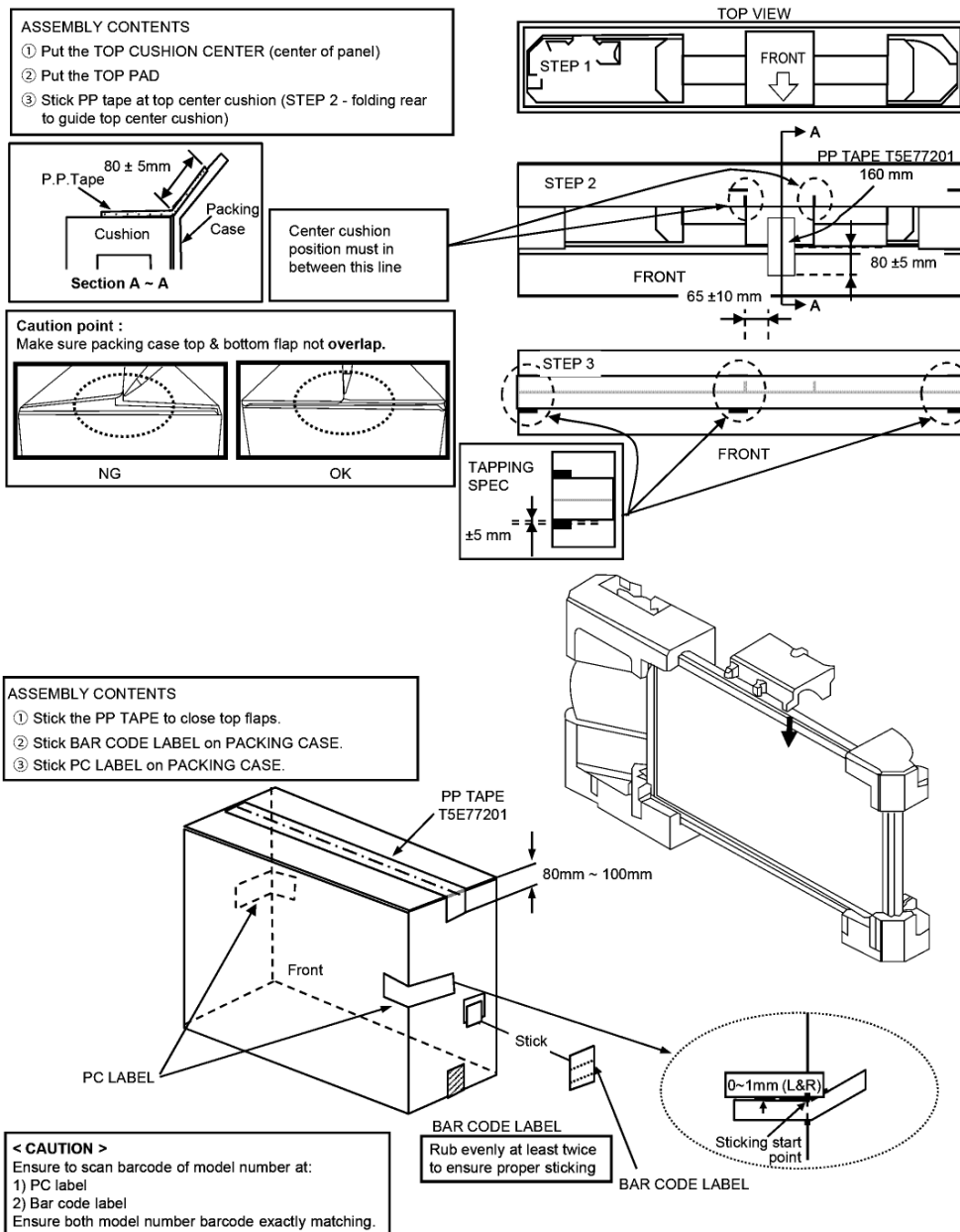
Model No. : TH-L42U20R Parts Location



Model No. : TH-L42U20R Packing Exploded View 1



Model No. : TH-L42U20R Packing Exploded View 2



Model No. : TH-L42U20R Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		K1PY51Y00048	LVDS CABLE		
		K2CQ2YY00070	AC POWER CORD		
	1	L0AA14B00006	SPEAKER UNIT		
	2	L5EDDAT00008	LCD PANEL		
	3	N2QAYB000399	REMOTE CONTROL		
	4	TBL4GA0045	PEDESTAL ASSY		
		TBL4GX0009	STAND MTG ASSY		
		TBM4GC497	MODEL NAME PLATE		
		TBX4GA01101A	CONTROL BUTTON		
		TBX4GA01201C	POWER BUTTON		
		TKK4GC5010	LED PANEL		
		TKP4GA02601A	CONTROL PANEL BRACKET		
		TKP4GA03801	SIDE AV BRACKET		
		TKX4GA01301	LED SHADE - RIB		
		TKX4GA03201A	SP BRACKET L		
		TKX4GA03301A	SP BRACKET R		
		TMX4GX001	AC CORD BRACKET		
	RTL	TZT/A10QKG	A BOARD		
	RTL	TNP4G478AA	P BOARD		
	RTL	TNPA4834BH	V BOARD		
	RTL	TNPA4901BQ	K BOARD		
		TPD4GA0148-2	TOP CUSHION		
		TPD4GA0149-1	BOTTOM CUSHION		
		TPD4GA0152-1	TOP CENTER CUSHION		
		TPD4GF0104-1	TOP LAYER PAD		
		TPE4GH017	SET COVER		
		TPE4GH027	SET COVER		
		TQZ4GB290-1	FAN BAG ASSY		
	5	TTU4GA0397-1	BACK COVER ASSY		
	6	TTY4GA0158	CABINET ASSY		
	7	TXFPC010QKG	PACKING CASE ASSY		