

Service Manual

LCD TV



TX-37LZ80Y

LH81 Chassis

Specifications

Power Source :	AC SINGLE 220 - 240 V, 50/60 Hz
Power Consumption	
Average Use	184 W
Standby condition	1.0 W
Display panel	
Aspect Ratio	16:9
Visible screen size	819.6 mm (W) × 460.8 mm (H)
(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H))
Sound	
Speaker	Full range × 2 pcs, 8 Ω
Audio Output	20 W (10 W + 10 W), 10% THD
Headphones	M3 (3.5 mm) Jack × 1
PC signals	VGA, SVGA, XGA, SXGA, WXGA
	Horizontal scanning frequency 31 - 69 Hz
	Vertical scanning frequency 59 - 86 Hz
Receiving Systems / Band name	SYSTEMS

FUNCTIONS

1	PAL B, G, H	Reception of broadcast transmission and playback from video cassette tape recorders.
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58 / 4.5 MHz)	
8	NTSC 4.43 / 5.5 MHz	Playback from special VCR's or DVD.
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.

Aerial - Rear

VHF / UHF

Operation Conditions

Temperature : 0°C - 40°C

Humidity : 20% -- 80% RH (non-condensing)

Connection Terminals :

AV1	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms]
Input	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
AV2	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms]
Input	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]
AV3	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms]
Input	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
	S VIDEO	Mini DIN 4-pin	Y: 1.0 V[p-p] (75 Ω) C: 0.286 V[p-p] (75 Ω)
Others	HDMI 1/2 Input	TYPE A Connectors	
	Audio Input for HDMI 1	RCA PIN Type × 2	0.5 V[rms]
	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[rms] (high impedance)
Monitor	AUDIO L-R	RCA PIN Type × 2	0.5 V[rms] (high impedance)
Output	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
Dimensions (W × H × D)		940 mm × 652 mm × 295 mm (With TV Stand) 940 mm × 611 mm × 110 mm (TV only)	
Mass		20.5 kg (Net)	

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

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.

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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.

1.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe as shown in Figure 1.
3. Use the Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part and measure the voltage at each point.
5. The potential at any point (touch current) expressed as voltage U_1 and U_2 , do not exceed the following values:
For AC: $U_1 = 35 \text{ V}$ (peak) and $U_2 = 0.35 \text{ V}$ (peak);
For DC: $U_1 = 1.0 \text{ V}$,

NOTE :

The limit value of $U_2 = 0.35 \text{ V}$ (peak) for AC and $U_1 = 1.0 \text{ V}$ for DC correspond to the values 0.7 mA (peak) AC and 2.0 mA DC.

The limit value $U_1 = 35 \text{ V}$ (peak) for AC correspond to the value 70 mA (peak) AC for frequencies greater than 100 kHz .

6. Should a measurement be out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

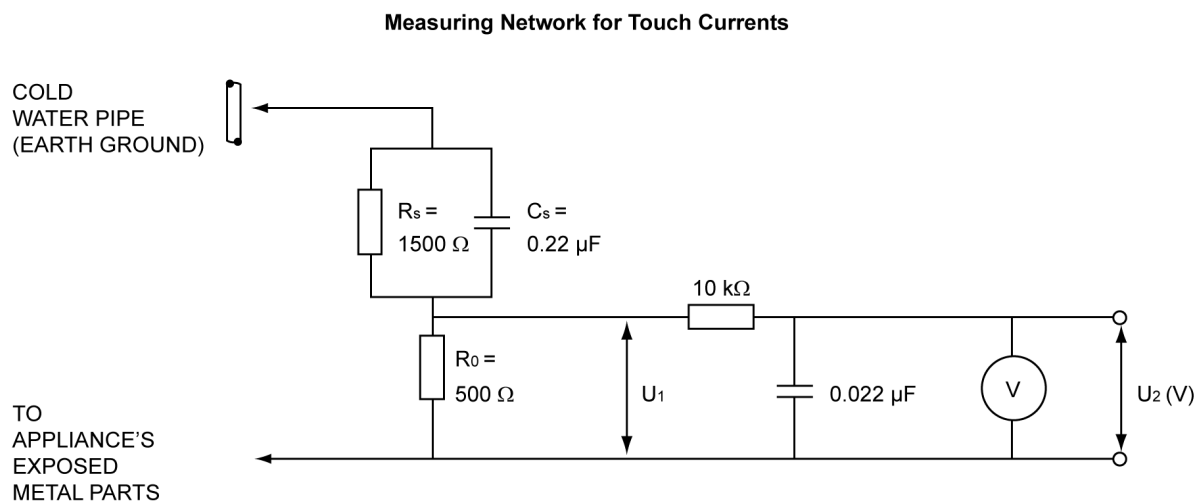


Figure 1

Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: $\geq 1 \text{ M}\Omega$
Input capacitance: $\leq 200 \text{ pF}$
Frequency range: 15 Hz to 1 MHz and DC respectively

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

2 Prevention of Electro Static 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 electro static 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 aluminium 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 charges 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, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution:

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

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

IMPORTANT SAFETY NOTICE

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

3 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 (PbF) used in our manufacturing process and discussed below is (Sn+Ag+Cu).

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

This model uses PbF in its manufacture due to environmental conservation issues. For service and repair work, we would suggest the use of PbF as well, although Pb may be used.

PCBs manufactured using lead-free will have the "PbF within a leaf Symbol" stamped on their back.

Caution

- PbF has a higher melting point than that of 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).
- PbF 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 PbF on the pins or solder area before applying Pb. If this is not practical, be sure to heat the PbF until it melts, before applying Pb.
- After applying PbF to double layered boards, please check the component side for excess solder which may flow onto the opposite side (see Figure 2).

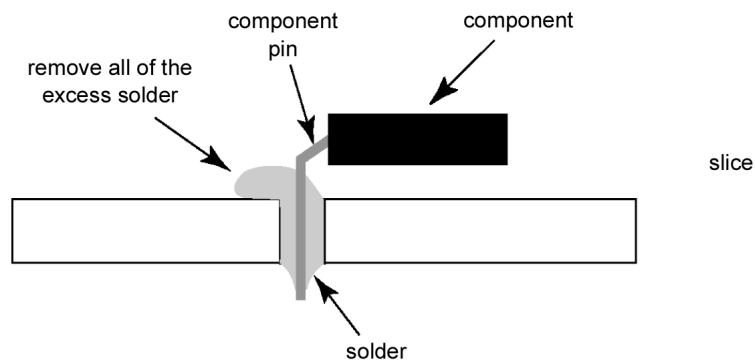


Figure 2

Suggested PbF

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

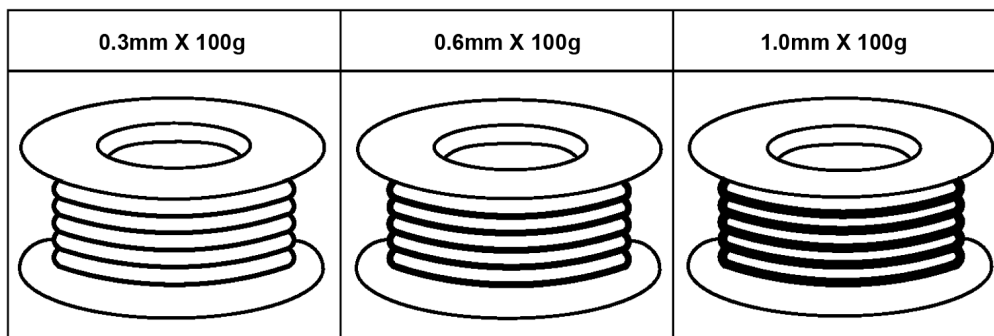


Figure 3

4 Self Check Function

4.1. Self Check

1. Self Check is used to automatically check the bus lines and hexadecimal codes of the TV set.
2. To get into the Self Check mode, press the "DOWN" button on the customer's controls at the front of the set, at the same time pressing the "MENU" button on the remote control. The screen that will show is represented by Figure 4.
3. Press both "OFF TIMER" button on the remote control and "DOWN" key button on the control panel.

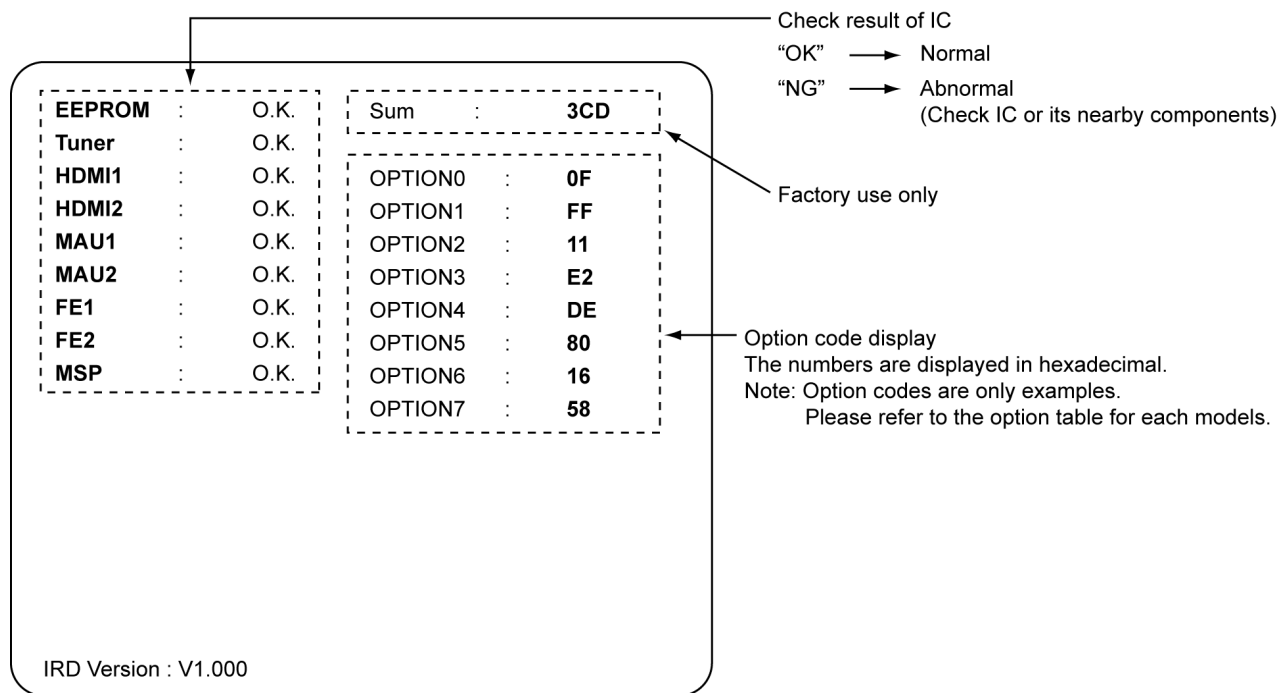


Figure 4

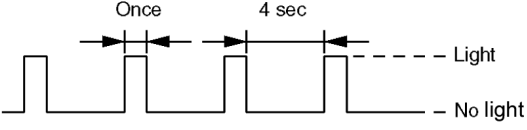
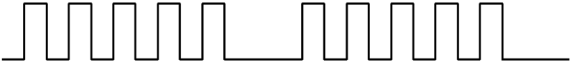
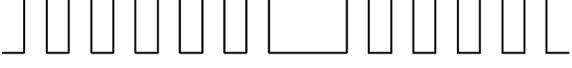
4.2. Power LED Blinking Timing Chart

1. Subject

Information of LED blinking timing chart.

2. Contents

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

No. of blinks	Blinking timing	Contents	Check point
1		Inverter SOS (24 V line Inverter in LCD panel)	POWER UNIT LCD PANEL
3		SOS BT 30 V/ SOUND 18 V/ PANEL 12 V/	AP-BOARD H-BOARD
4		Sub 9 V	AP-BOARD
5		Sub 5 V	AP-BOARD
6		Main 9 V	AP-BOARD
8		Main 3.3 V	AP-BOARD

5 Chassis Board

5.1. Chassis Installation

1. Fix 12 screws to 'A-board' and 'P-board'.

Tightening torque should be 50 Ncm to 80 Ncm (5 kgf cm to 8 kgf cm).

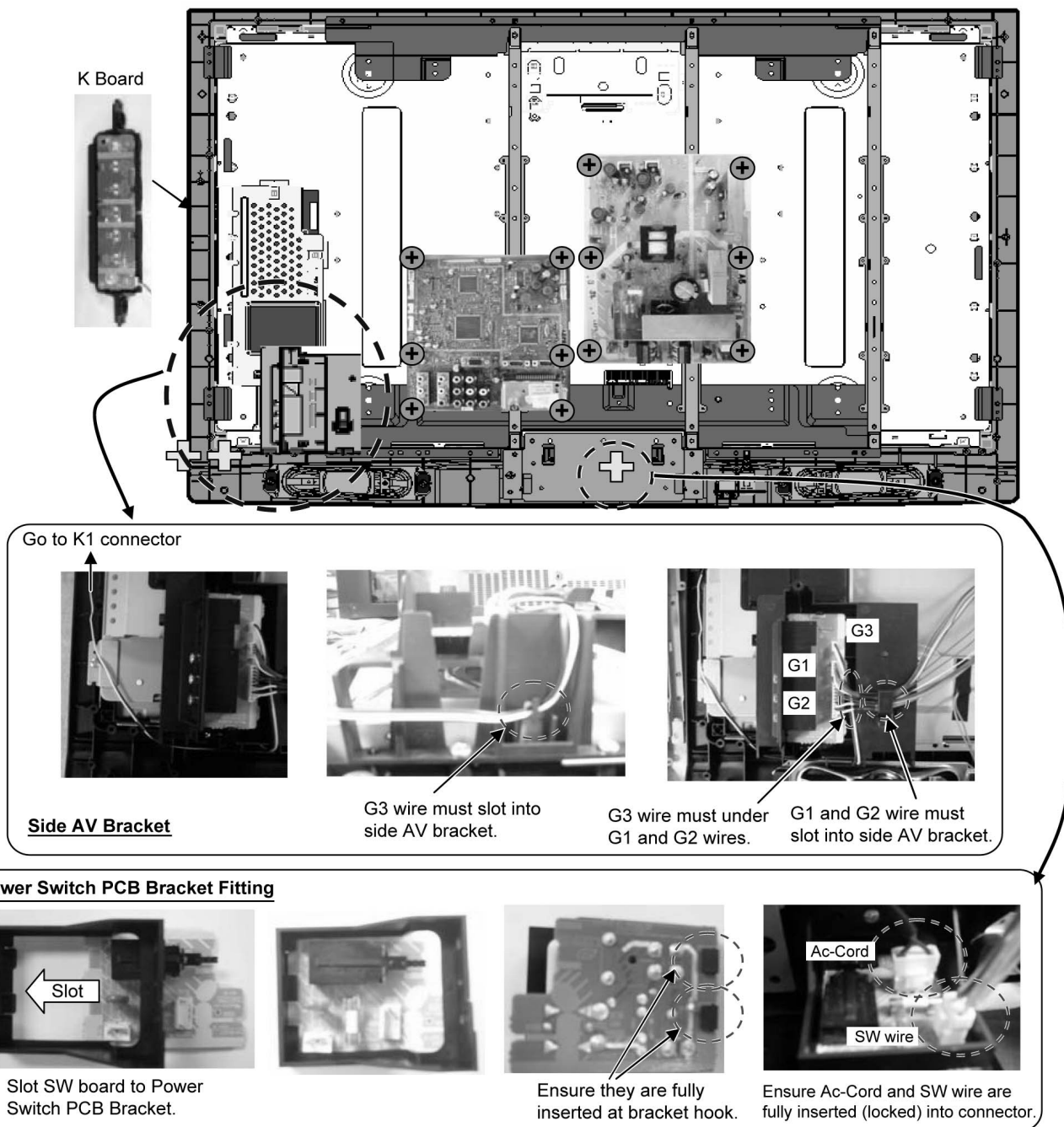
2. Fix connectors G1, G2 and G3 to AT G-board.

3. Fix 2 screws to the side of AV bracket assembly.

Tightening torque should be 100 Ncm to 130 Ncm (10 kgf cm to 13 kgf cm).

4. Fix 1 screw to cabinet with power switch PCB bracket.

Tightening torque should be 100 Ncm to 130 Ncm (10 kgf cm to 13 kgf cm).

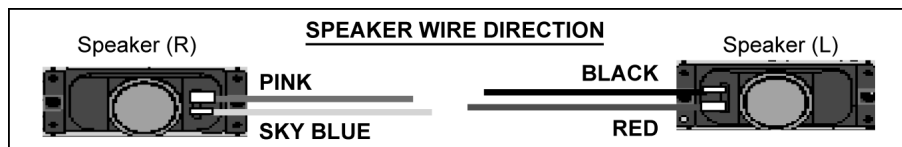
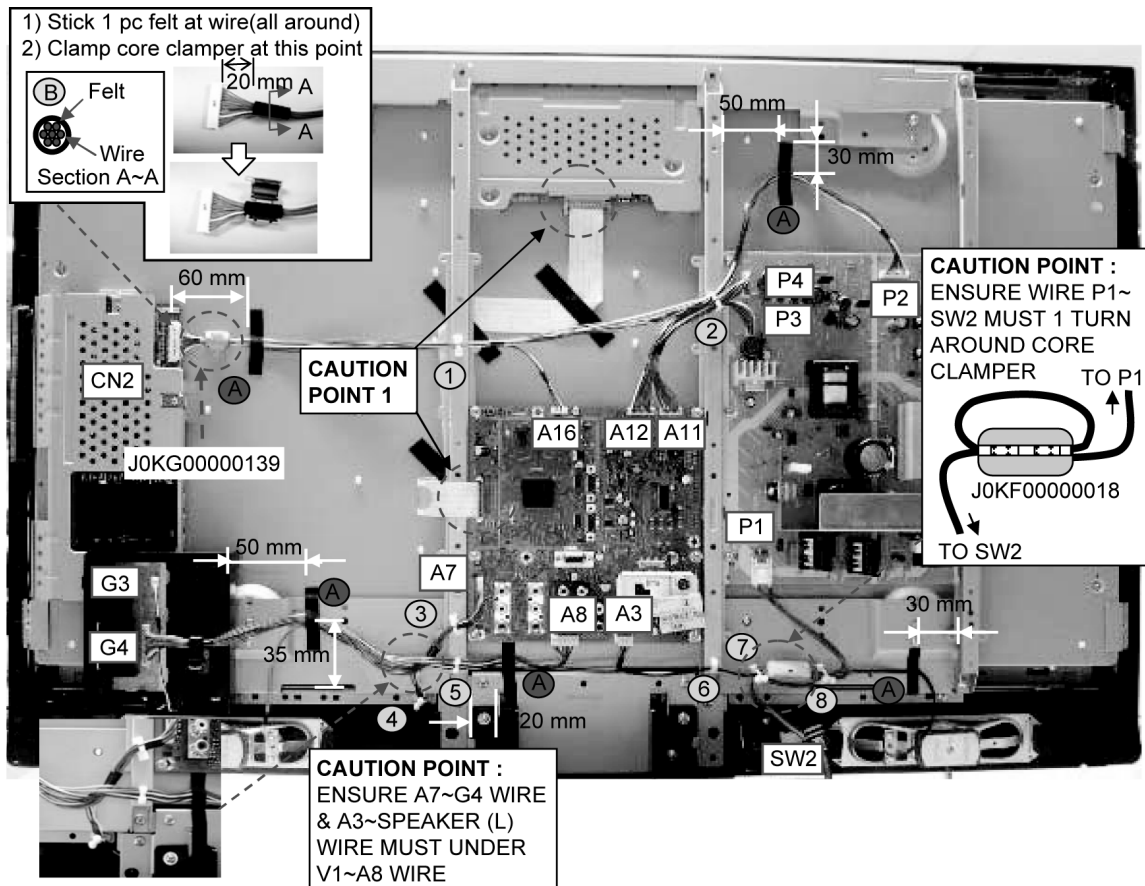


⊕ = SCREW - XTB4 + 15JFJ (3 pcs)

⊕ = SCREW - THTF012J (12 pcs)

6 Location of Lead Wiring

6.1. Wire Dressing

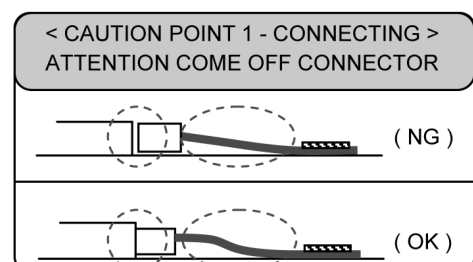


6.2. Wire Dressing and Connections

	CONNECTION	1	2	3	4	5	6	7	8								
1	CN 2 ~ P 2	●	●														
2	CN 2 ~ A 16	●															
3	A 11 ~ P 3		●														
4	A 12 ~ P 4		●														
5	A 7 ~ G 4			●													
6	V 1 ~ A 8				●	●											
7	A 3 ~ SPEAKER (R)					●											
8	A 3 ~ SPEAKER (L)						●	●	●								
9	P 1 ~ SW 2							●	●								

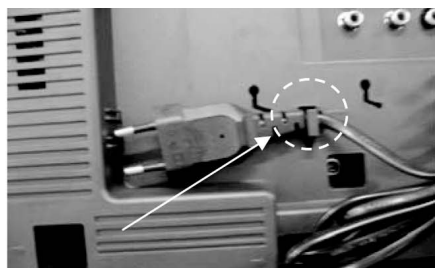
CLAMPER FOR CASING	
① ③	TMM76416-1
②	TMM7443-3
⑤ ⑥	TMM15481
④ ⑦ ⑧	TMME047

- = FELT - TMK4G230 = 5 pcs
○ = FELT - TMK4G214 = 1 pc

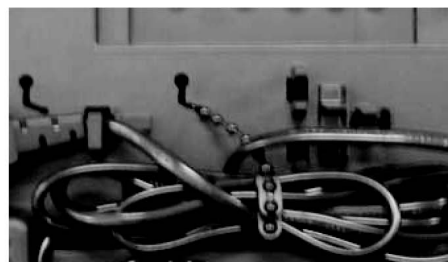


7 Disassembly for Service

7.1. AC Code dressing for K2CQ2YY00009 (2 Pin)



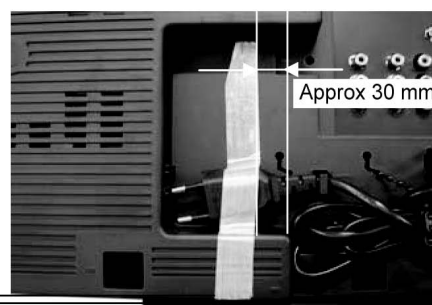
Slot AC cord at the back cover hook



Slot beads at back cover under the AC cord wire



Final dressing



Approx 30 mm

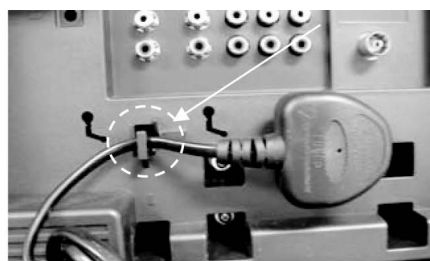
0~0 mm

Stick blue tape at AC cord into back cover and ensure filament tape fully rub

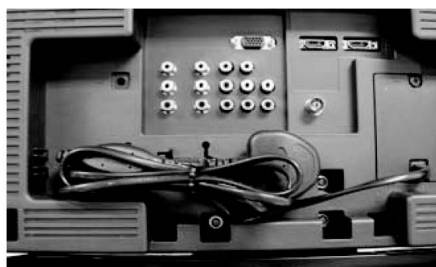
7.2. AC Code dressing for K2CT2YY00009 (3 Pin)



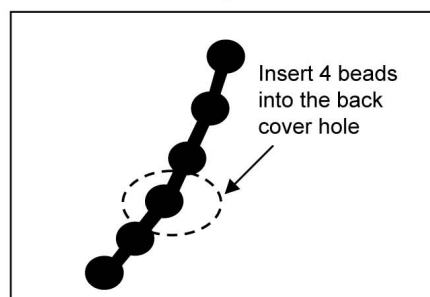
Fix AC cord at back cover 3 pin plug



Slot AC cord at back cover hook



Final dressing



Insert 4 beads
into the back
cover hole

7.3. Chassis Rail Installation

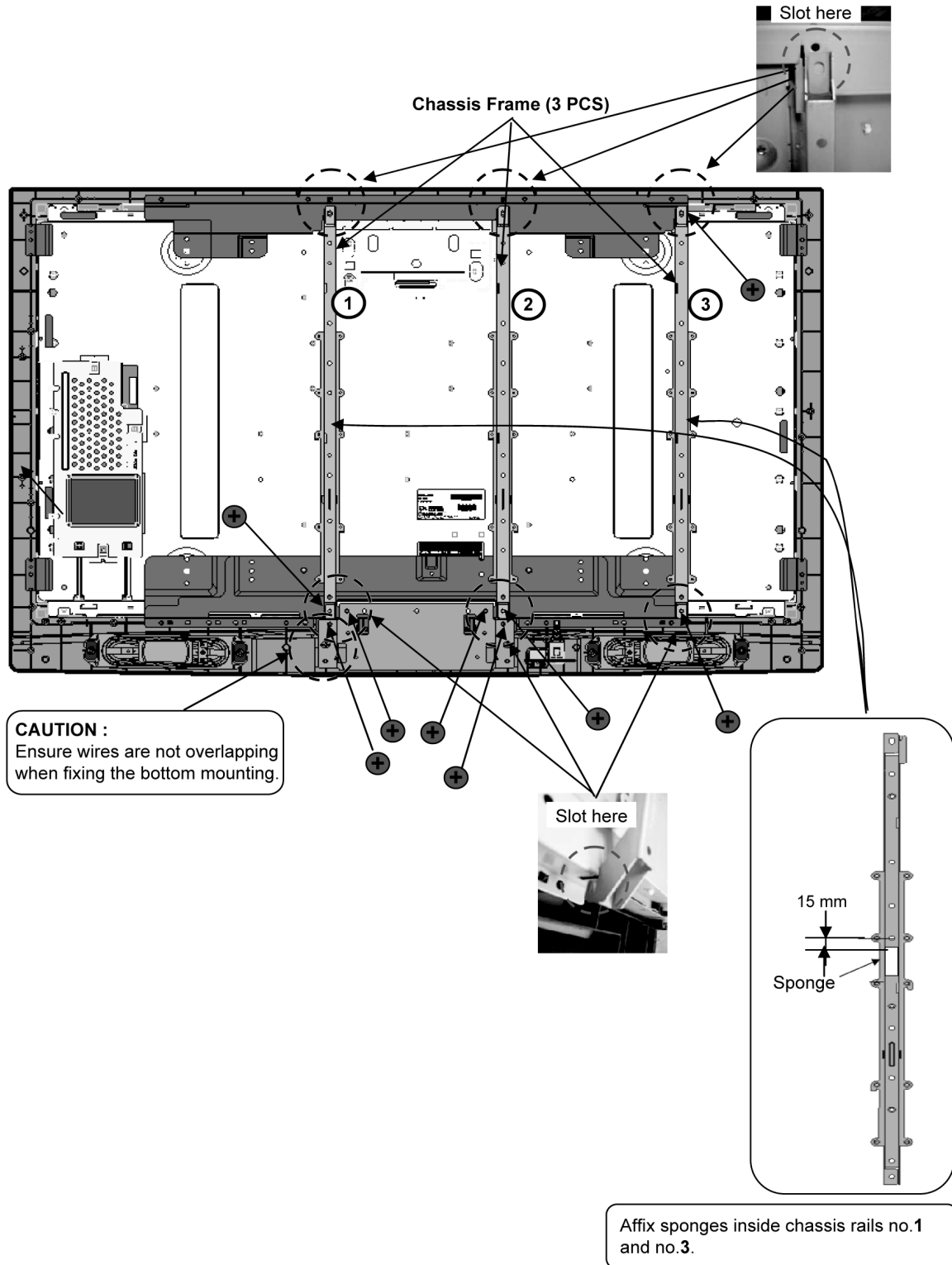
1. Put on the bottom mounting and fix with 4 screws.

Tightening torque should be 100 N cm - 130 N cm (10 kgf cm to 13 kgf cm).

2. Stick sponges at chassis rails no.1 and no.3.

3. Fix 3 pieces of chassis frames and fix 4 screws to the bottom and top mountings.

Tightening torque should be 100 N cm - 130 N cm (10 kgf cm to 13 kgf cm).



⊕ = SCREW-XTB4=15JFJ (8 pcs)

7.4. VESA Bracket Installation

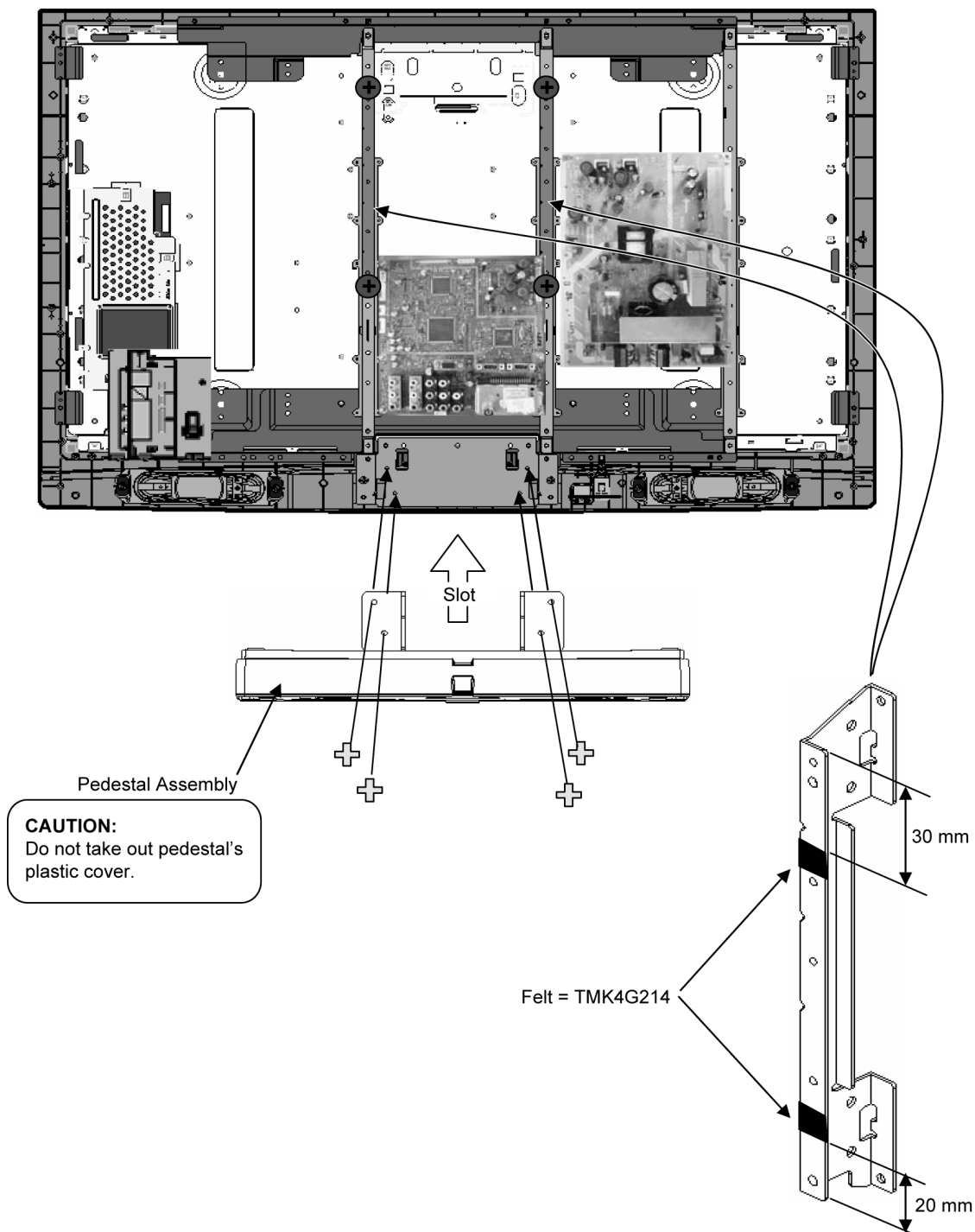
1. Stick 2 pieces of felt on each part of the VESA bracket.

2. Fix 4 screws to VESA bracket.

Tightening torque should be 100 Ncm to 130 Ncm (10 kgf cm to 13 kgf cm).

3. Slot pedestal assembly and fix 4 screws to cabinet.

Tightening torque should be 100 Ncm to 130 Ncm (10 kgf cm to 13 kgf cm).



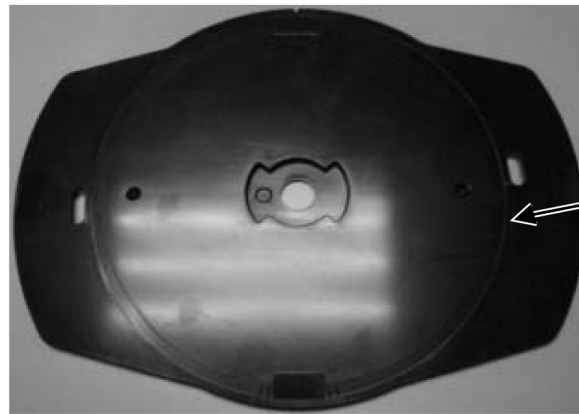
⊕ = SCREW-XTB4 + 15JFJ (4 pcs)

⊕ = SCREW-XYN4 + F10FJK (4 pcs)

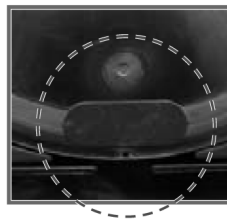
7.5. Pedestal Assembly Preparation

7.5.1. Pedestal Rotation Base

Preparation



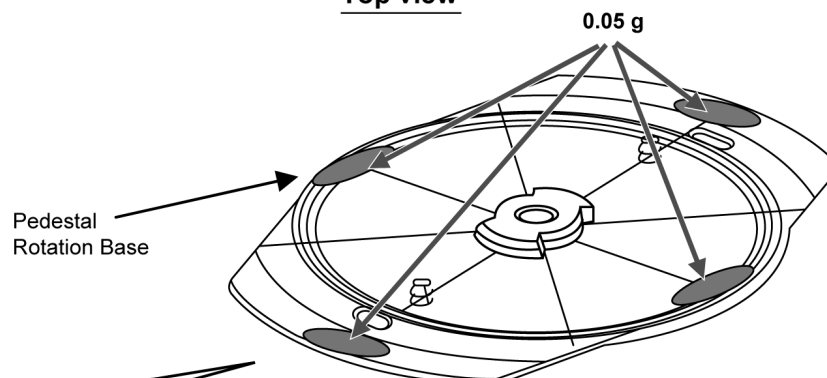
Pedestal
Rotation Base



Caution :

Make sure the rubber foot is fully inserted into the base of the guide rib at pedestal rotation to ensure the balance of the pedestal assembly.

Top view



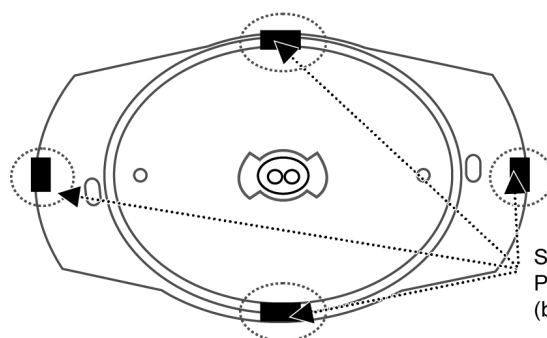
Polyslider



Grease

Affix polyslider (4 pcs) and apply grease on top of all polysliders.

Bottom view



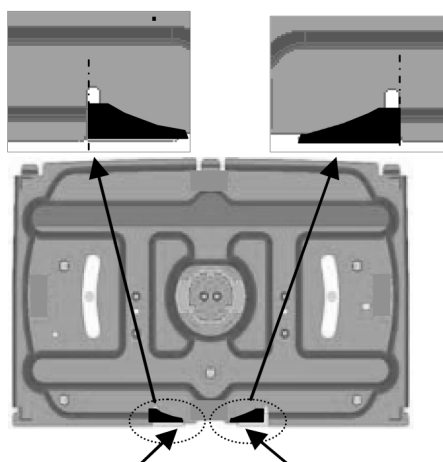
Stick Rubber Foot (4 pcs) onto
Pedestal Rotation Base
(bottom side) (TBL4G3001).

7.5.2. Pedestal Stand Base

Preparation



Bottom view

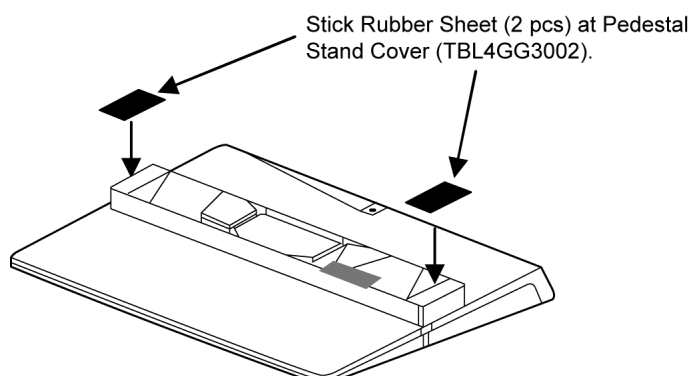


Stick Protection Rubber (R) 1 pc (TBL4GG3004).

Stick Protection Rubber (L) 1 pc (TBL4GG3003).

7.5.3. Pedestal Stand Cover

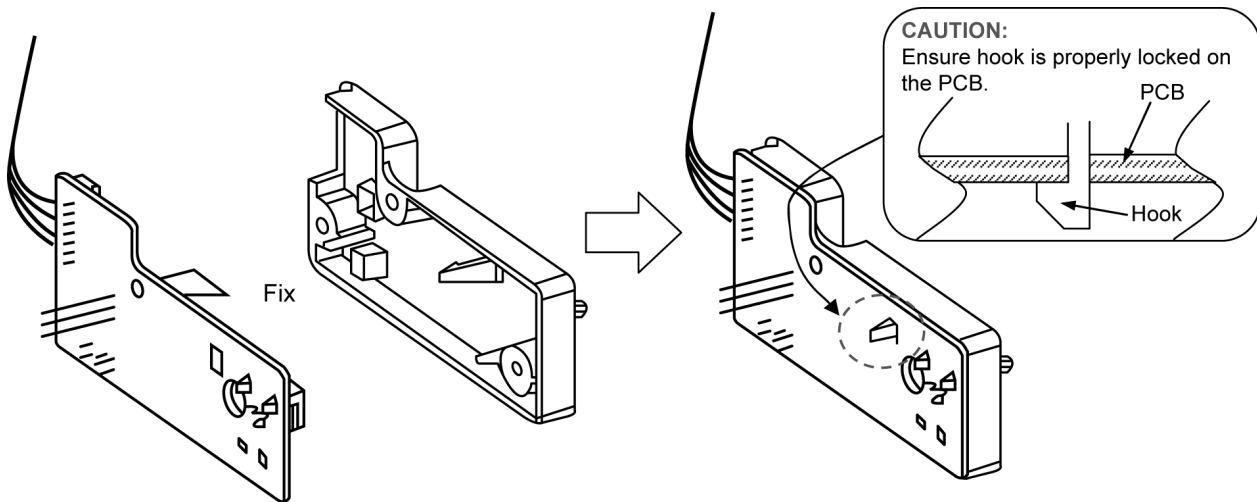
Preparation



Stick Rubber Sheet (2 pcs) at Pedestal
Stand Cover (TBL4GG3002).

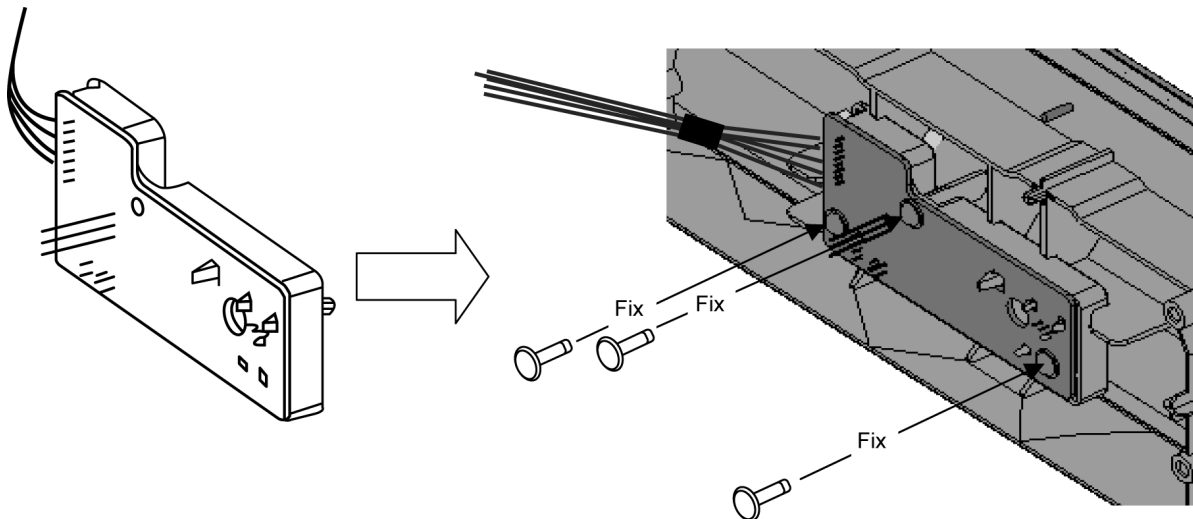
7.6. LED Panel Installation

1. Put PCB to LED panel and ensure hook is properly locked on the PCB.



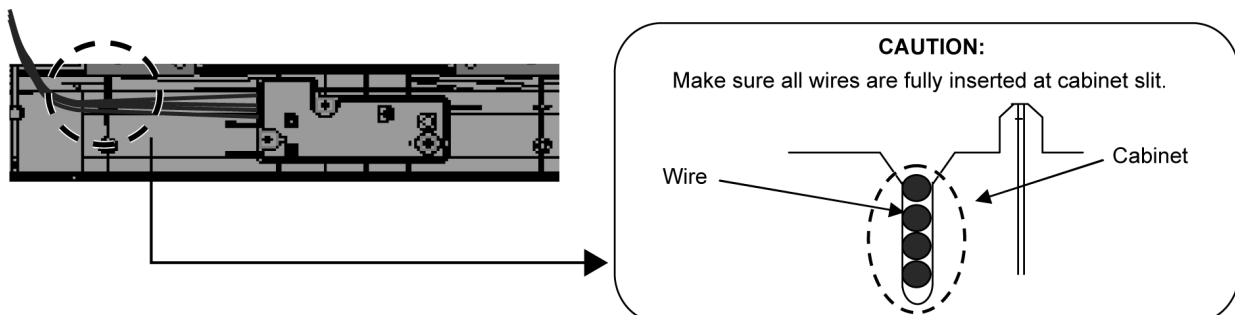
2. Fix LED panel to cabinet with 3 screws.

Tightening torque should be 0.5 N m ~ 0.8 N m (5 to 8 kgf cm).



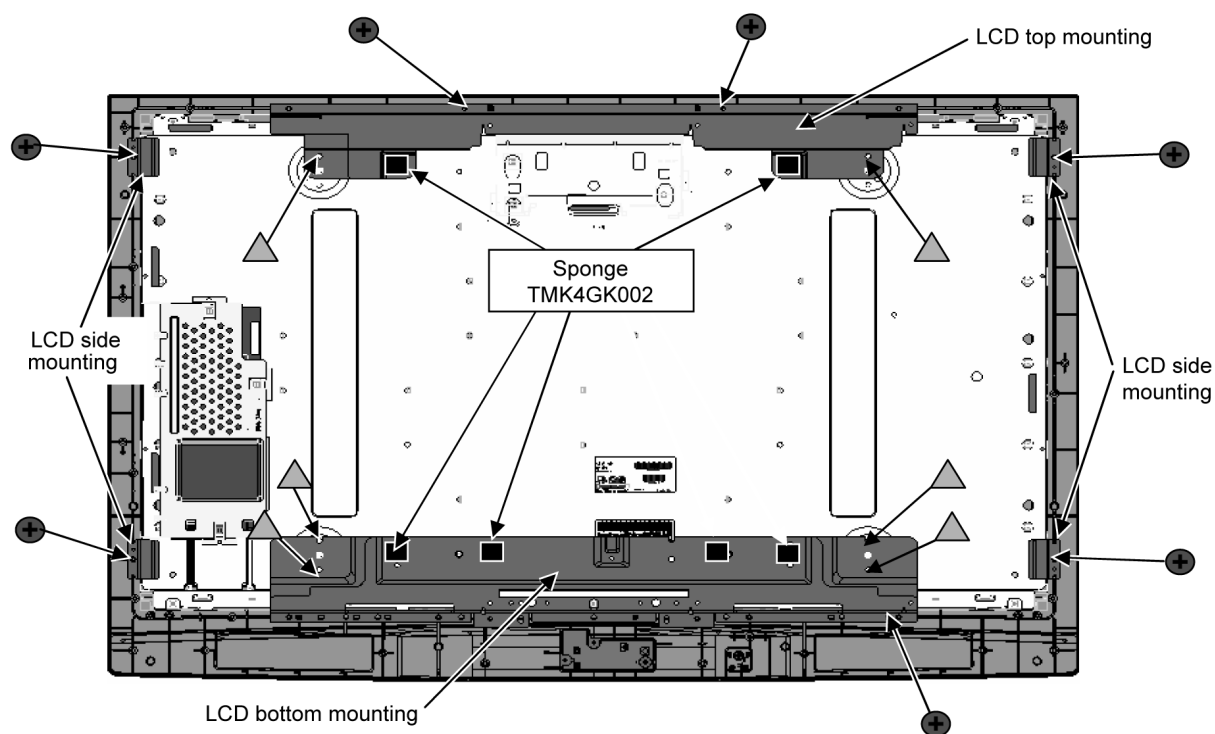
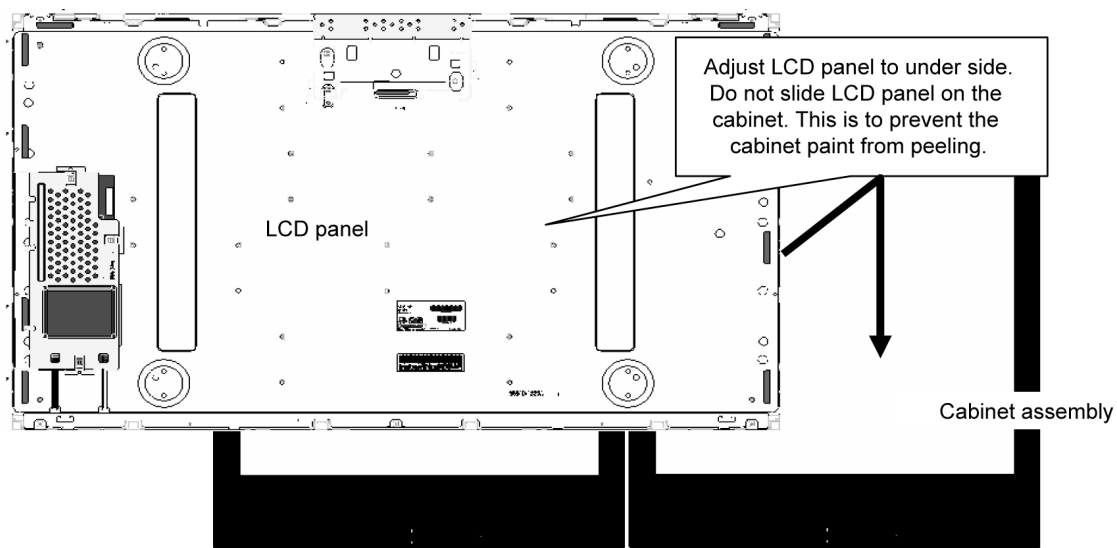
 = Screw - XTW3 + 10TFJ (3 pcs)

3. Fix wires at cabinet slit and make sure all wires are fully inserted to avoid contact with the pedestal metal.



7.7. LCD Panel Assembly Installation

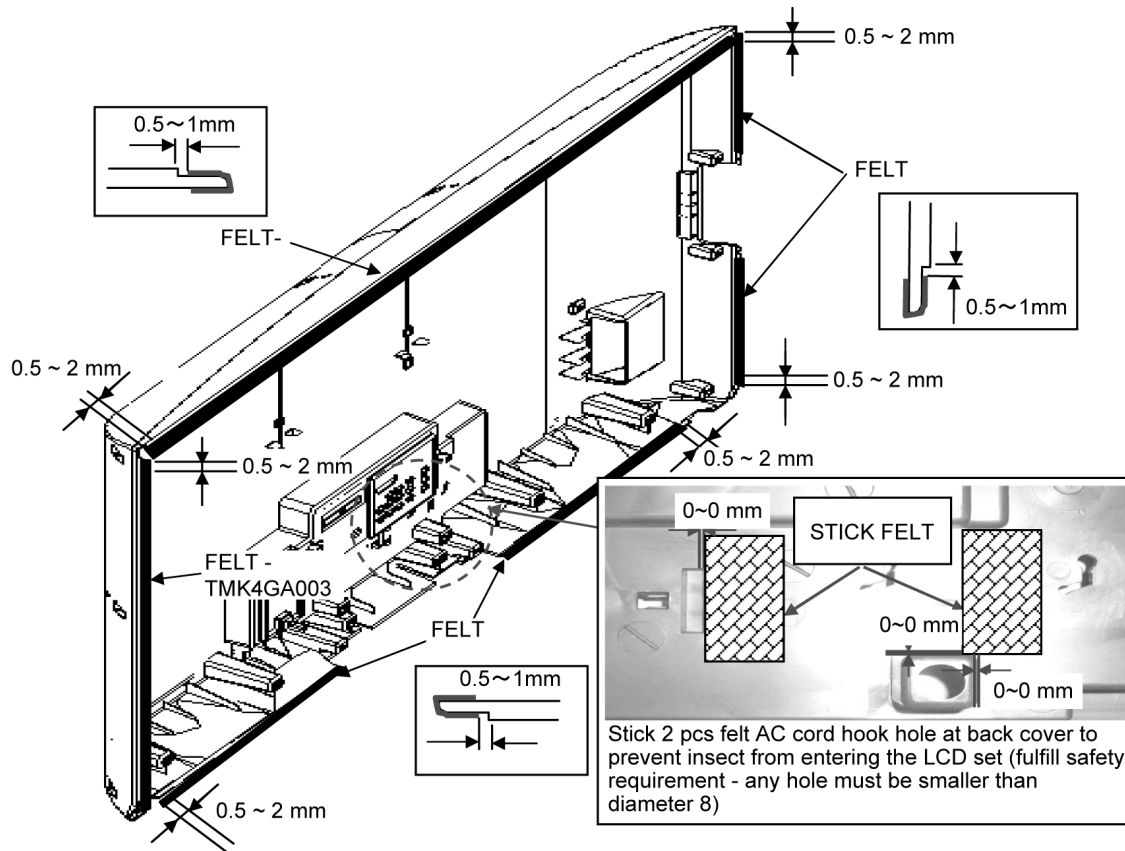
1. Put LCD panel to cabinet assembly.
2. Put LCD top mounting, LCD bottom mounting and LCD side mounting to cabinet assembly.
3. Fix screw into LCD top mounting, LCD side mounting and LCD bottom mounting.
Tightening torque should be 100 N cm ~ 130 N cm (10 kgf cm to 13 kgf cm).
4. Stick sponges at top mounting and bottom mounting.



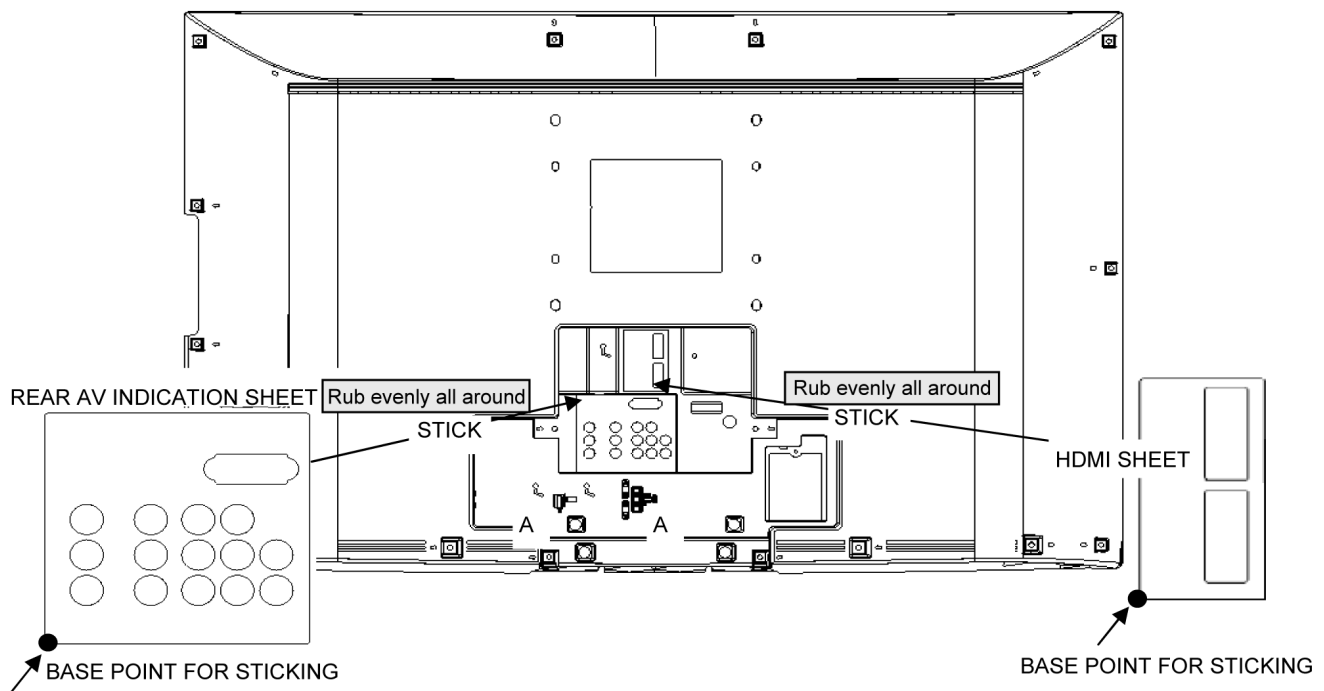
⊕ = SCREW - XTB4 + 15JFJ (7 pcs), ▲ = SCREW - XYN4 + F6FJ (6 pcs), ■ = SPONGE (6 pcs)

7.8. Back Cover

1. Stick felts to back cover.



2. Stick rear AV indication and HDMI sheet at cabinet.



8 Service Mode Adjustment

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

8.1. SERVICE 1

1. Press button cursor up and down for adjustment below.

- Tests
- Backlight
- Colours
- Keys
- RedLED
- Checksum

8.2. SERVICE 2

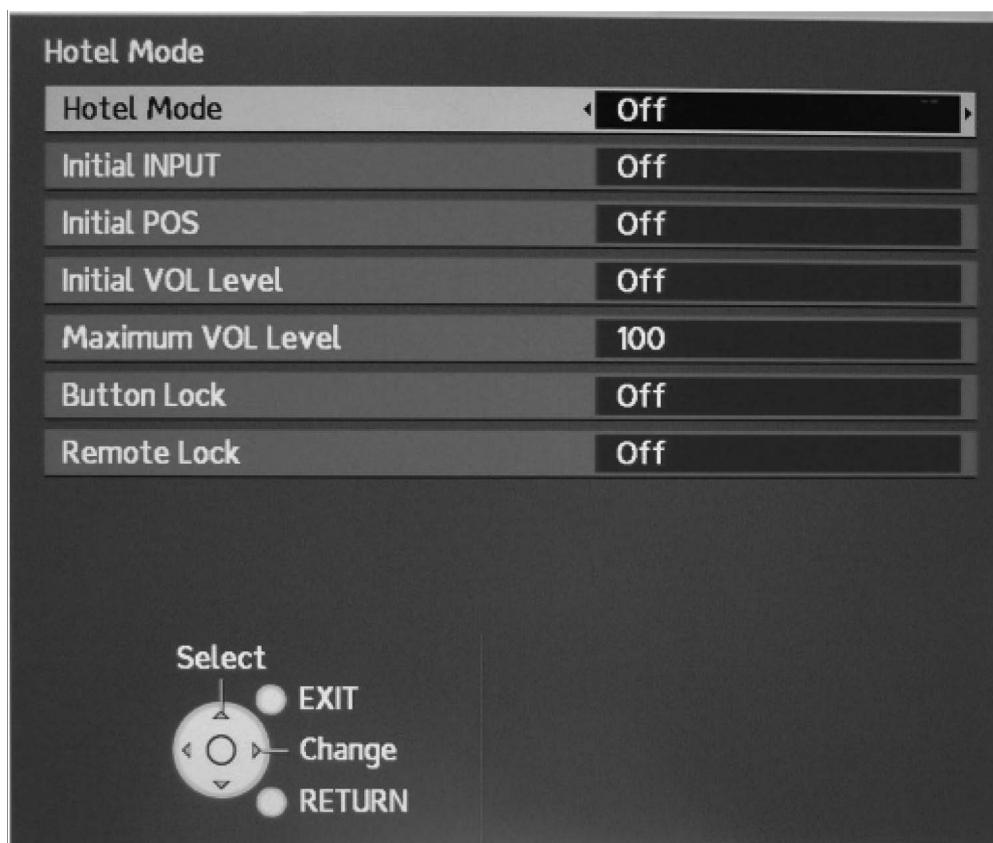
1. Select CHE CHECK mode in service 1, then press the “HOLD” button (on the remote control) to enter service 2.

8.3. Self Check Mode

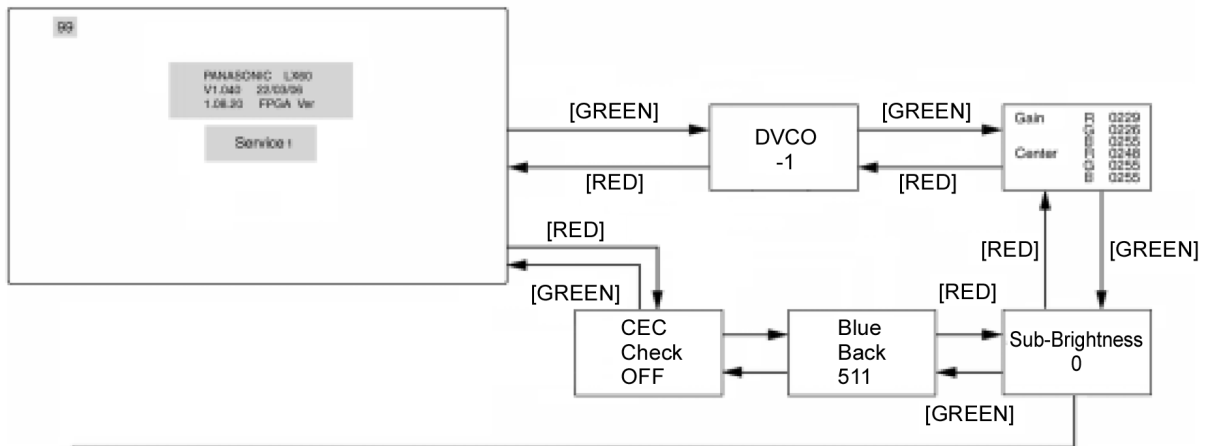
1. Press the “MENU” button (on the remote control) and the “DOWN” button on the LCD panel.
2. Press ON/OFF button on the panel to Exit.

8.4. 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.

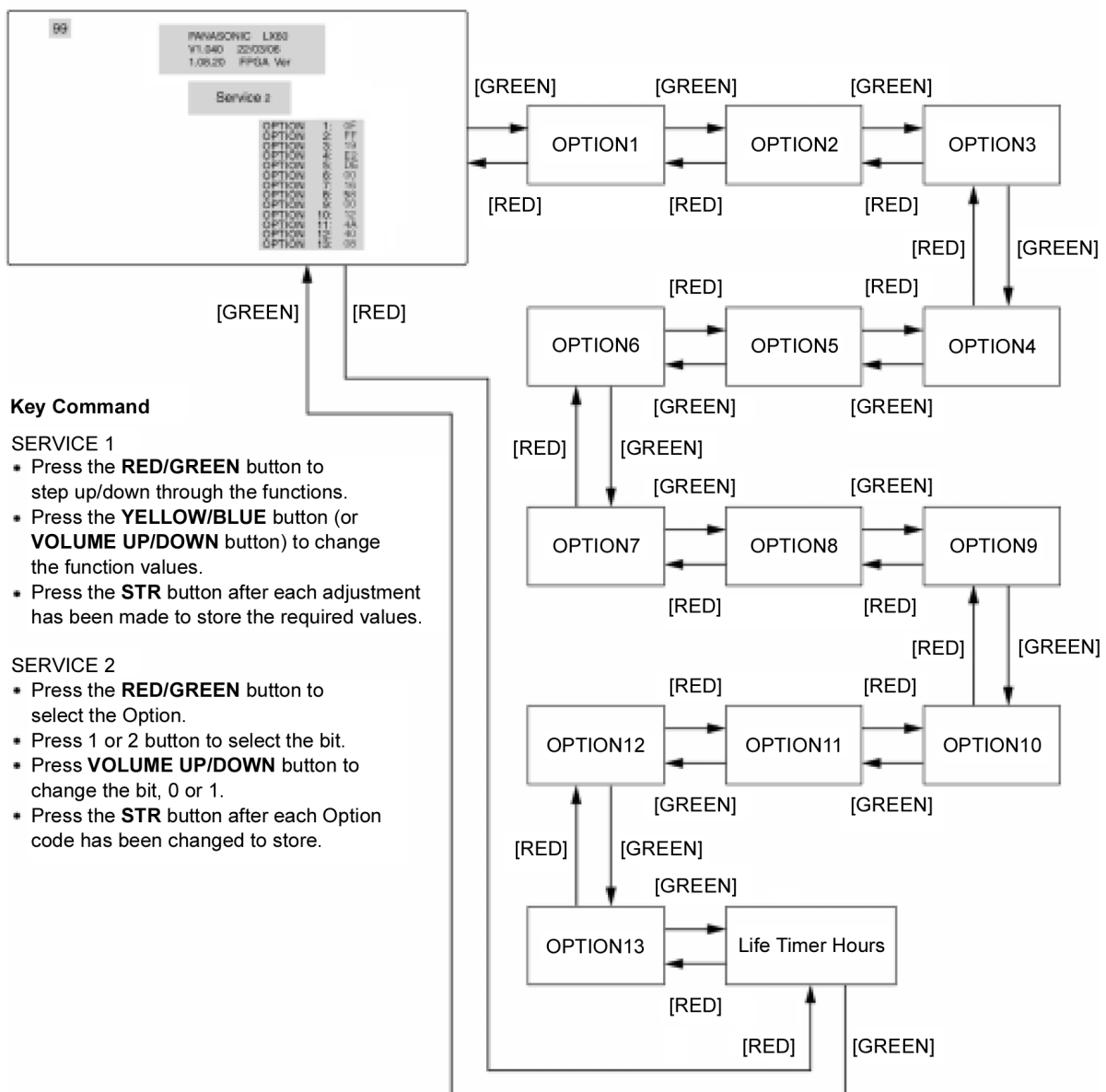


SERVICE 1



DOWN “-” + MUTE

SERVICE 2



Key Command

SERVICE 1

- Press the **RED/GREEN** button to step up/down through the functions.
- Press the **YELLOW/BLUE** button (or **VOLUME UP/DOWN** button) to change the function values.
- Press the **STR** button after each adjustment has been made to store the required values.

SERVICE 2

- Press the **RED/GREEN** button to select the Option.
- Press 1 or 2 button to select the bit.
- Press **VOLUME UP/DOWN** button to change the bit, 0 or 1.
- Press the **STR** button after each Option code has been changed to store.

9 Adjustment

9.1. Voltage Chart of A Board

Power Name	Test point	Specification	
		NORMAL	STANDBY
MAIN_5 V	TP1823	$5.0 \pm 0.25 \text{ V}$	-
PANEL_12 V	TP3824	$12.0 \pm 0.25 \text{ V}$	-
BT_30 V	TP1820	$30.0 \text{ V} \pm 2.0 \text{ V}$	-
24 V	TP1818	$24.0 \pm 1.2 \text{ V}$	-
MAIN_8 V	TP1822	$8.0 \text{ V} \pm 0.4 \text{ V}$	-
STB_3.3 V	TP1835	$3.30 \pm 0.17 \text{ V}$	$3.30 \pm 0.17 \text{ V}$
MAIN3.3 V	Pin 8 A8-A	$3.30 \pm 0.17 \text{ V}$	-
STBY1.0 V	TP1838	$1.0 \pm 0.05 \text{ V}$	$1.0 \text{ v} \pm 0.05 \text{ V}$
MAIN1.0 V	TP3832	$1.0 \pm 0.05 \text{ V}$	-
CORE1.0 V	TP1842	$1.02 \pm 0.05 \text{ V}$	-
MAIN1.25 V	TP1844	$1.25 \pm 0.05 \text{ V}$	-
MAIN1.8 V	TP1847	$1.8 \pm 0.05 \text{ V}$	-
MAIN2.5 V	TP1848	$2.5 \pm 0.08 \text{ V}$	-
SOUND_13.9 V	TP1816	$13.9 \pm 0.7 \text{ V}$	-

9.2. Voltage Chart of P board

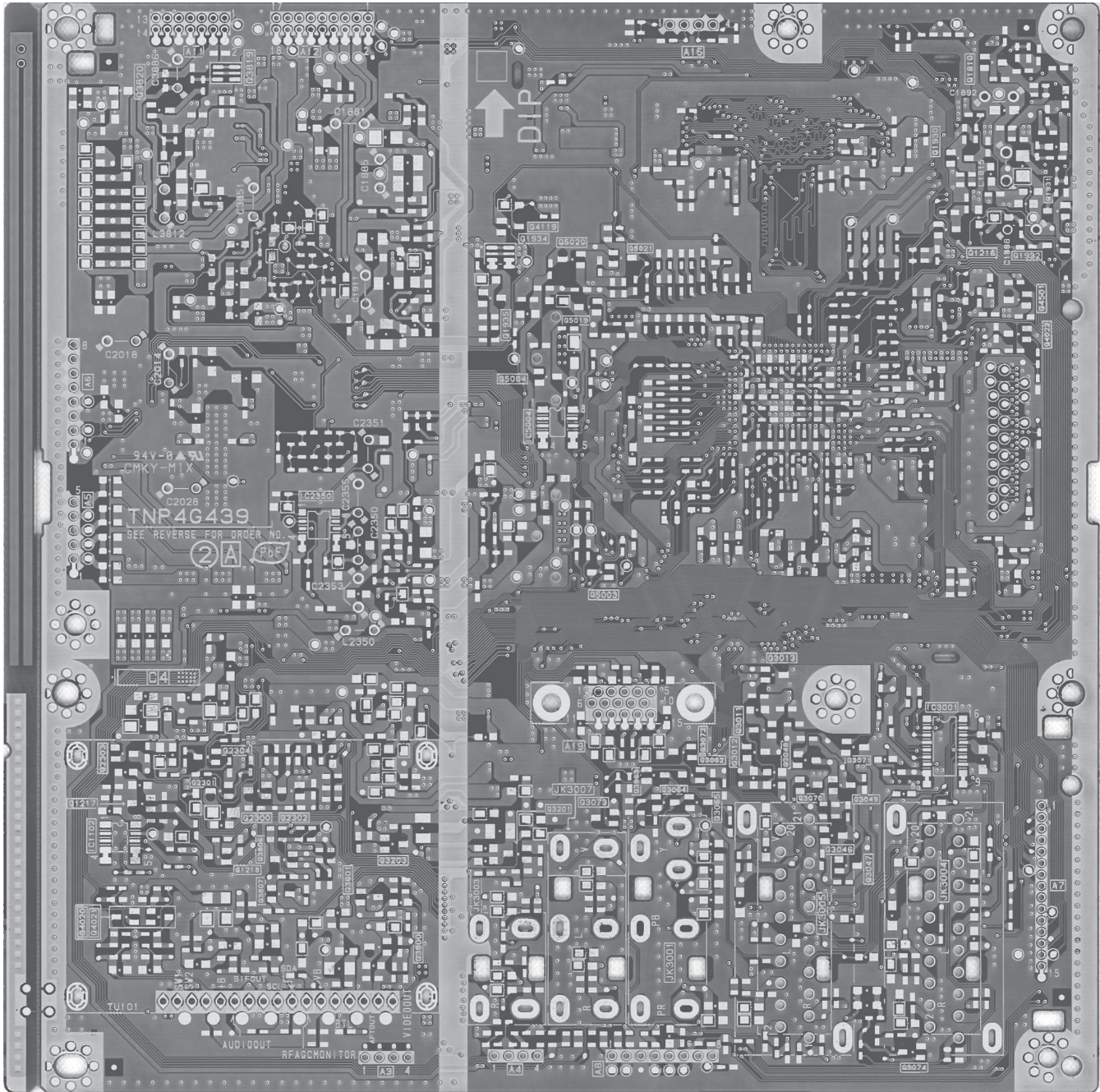
Power Name	Test point	Specification	
		RECEIVING	STANDBY
PANEL_12 V	TPP033	$12.0 \pm 0.50 \text{ V}$	-
BT_30 V	TPP015	$30.0 \text{ V} \pm 2.0 \text{ V}$	-
24 V	TPP007	$24.0 \pm 1.2 \text{ V}$	-
MAIN_8 V	TPP006	$8.0 \text{ V} \pm 0.4 \text{ V}$	-
STB_3.3 V	TPP035	$3.30 \pm 0.17 \text{ V}$	$3.30 \pm 0.17 \text{ V}$
SOUND_13.9 V	TPP028	$13.9 \text{ V} \pm 0.7 \text{ V}$	-

10 Conductor Views

10.1. A-Board

A-Board (A Side)

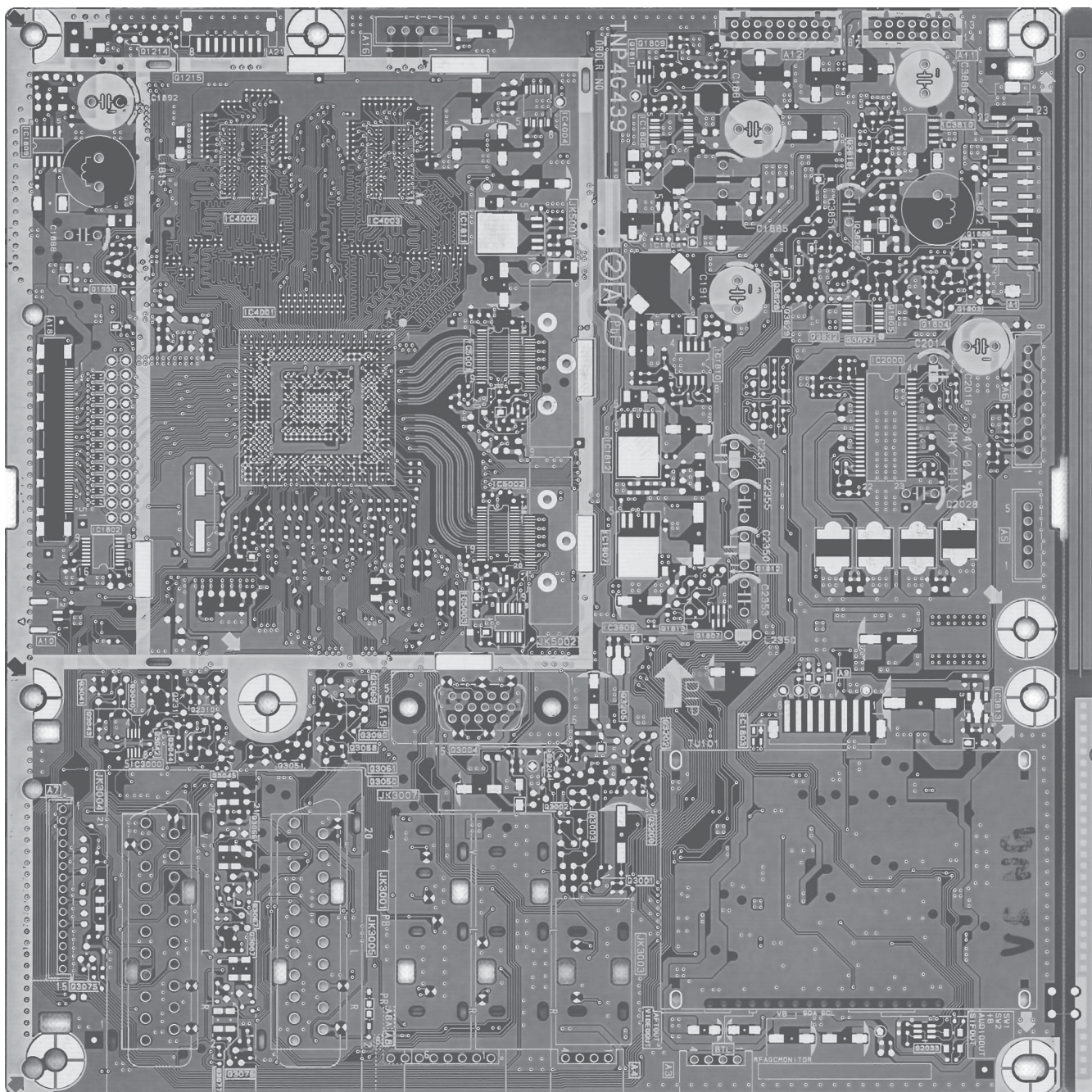
TNP4G439



10.2. A-Board

A-Board (B Side)

TNP4G439



11 Schematic Diagram

11.1. Schematic Diagram Notes

Important Safety Notice

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

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 μ F unless otherwise noted.

4. Test Point

 : Test Point position

5. Earth Symbol

 : Chassis Earth (Cold)  : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured using DC voltmeter.

Conditions of the measurement are the following :

Power Source.....AC AUTO 110-240 V, 50/60 Hz

Receiving Signal.....Colour Bar signal (RF)

All customer's controls.....Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table)

8. When an arrow mark () is found, connection is easily found from the direction of the arrow.

9. Indicates the major signal flow: Video Audio

10. 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.

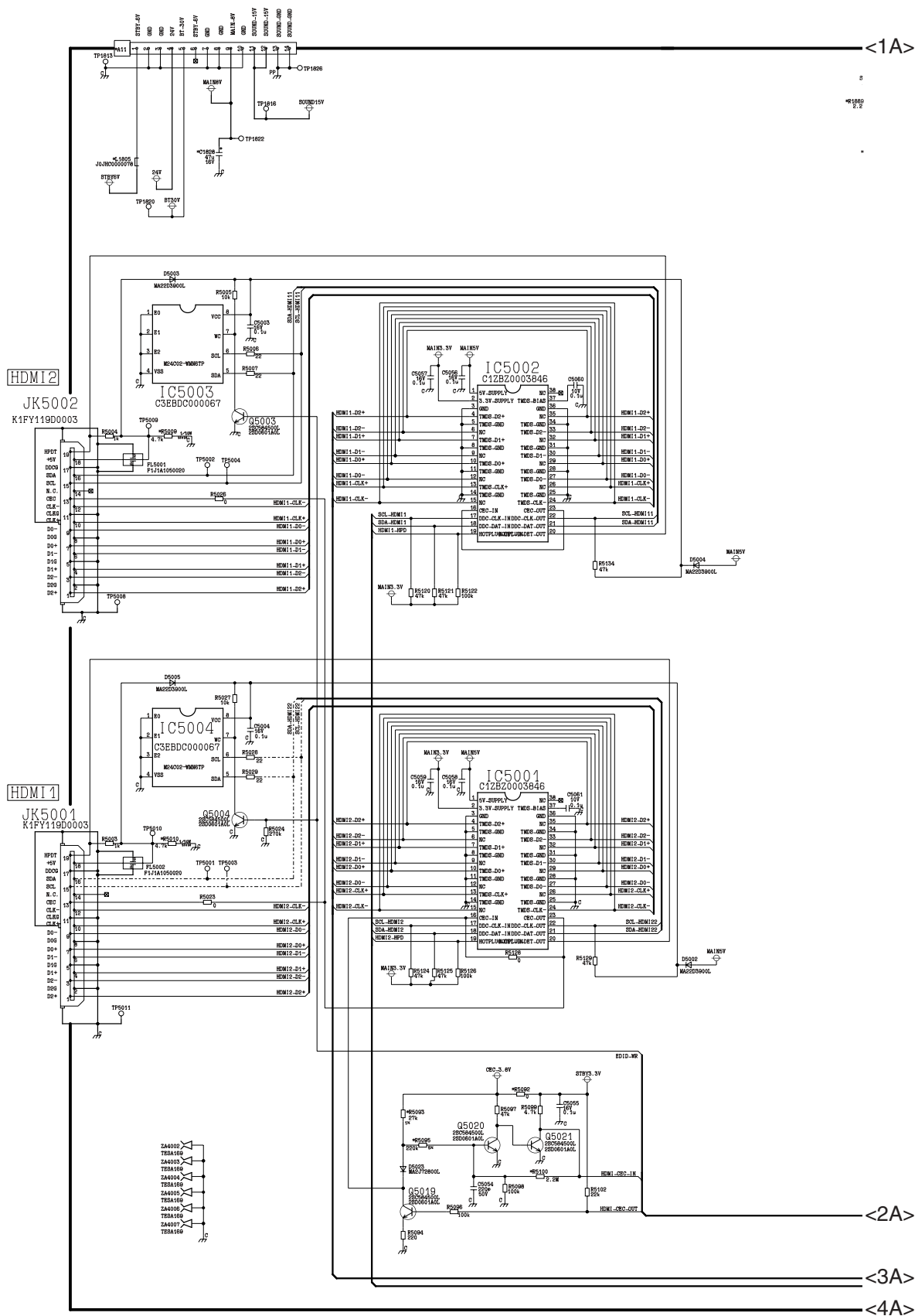
c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse may blow.

Connect the earth of instruments to the earth connection of the circuit being measured.

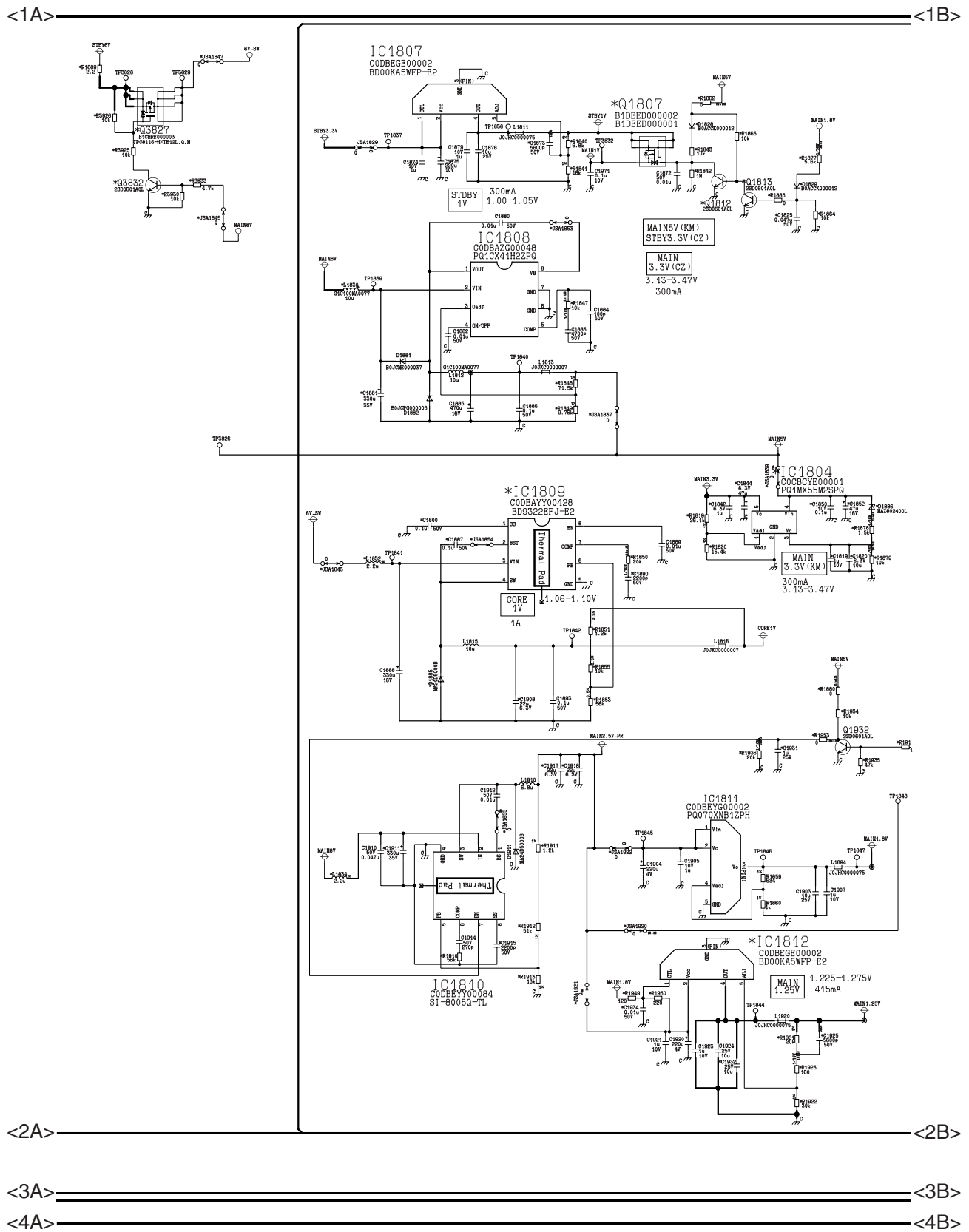
d. Make sure to disconnect the power plug before removing the chassis.

11.2. A Board

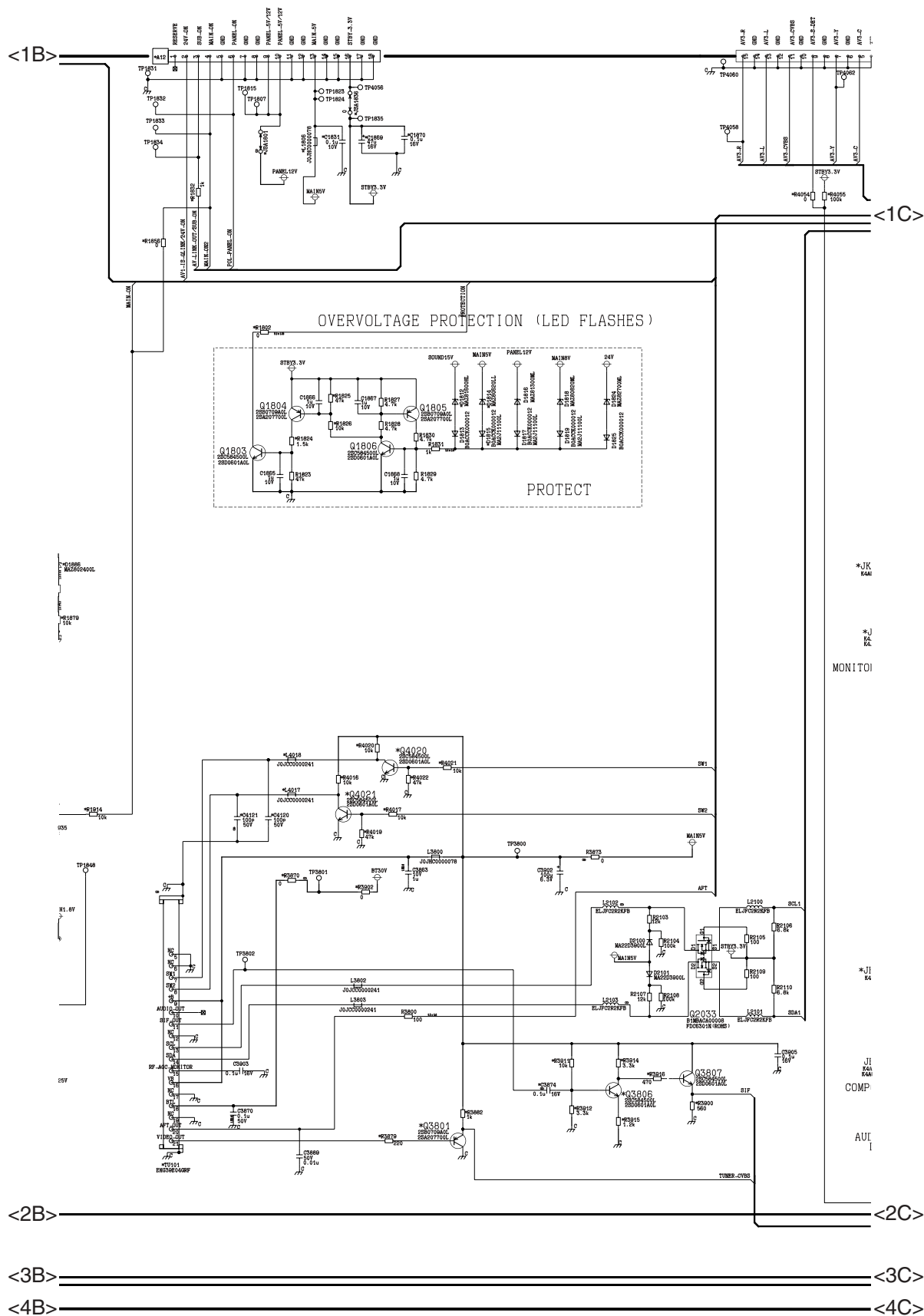
11.2.1. A Board (1 / 11)



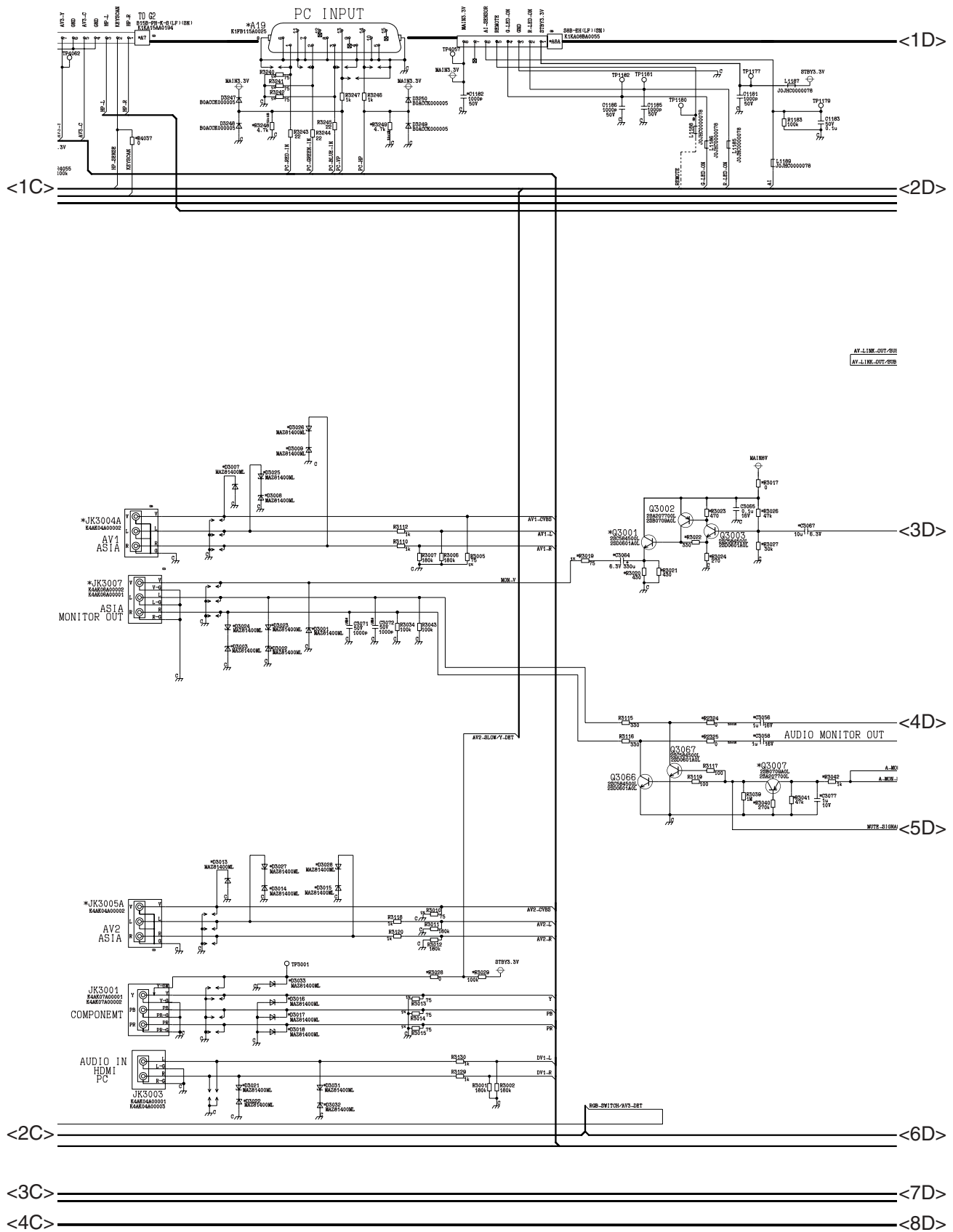
11.2.2. A Board (2 / 11)



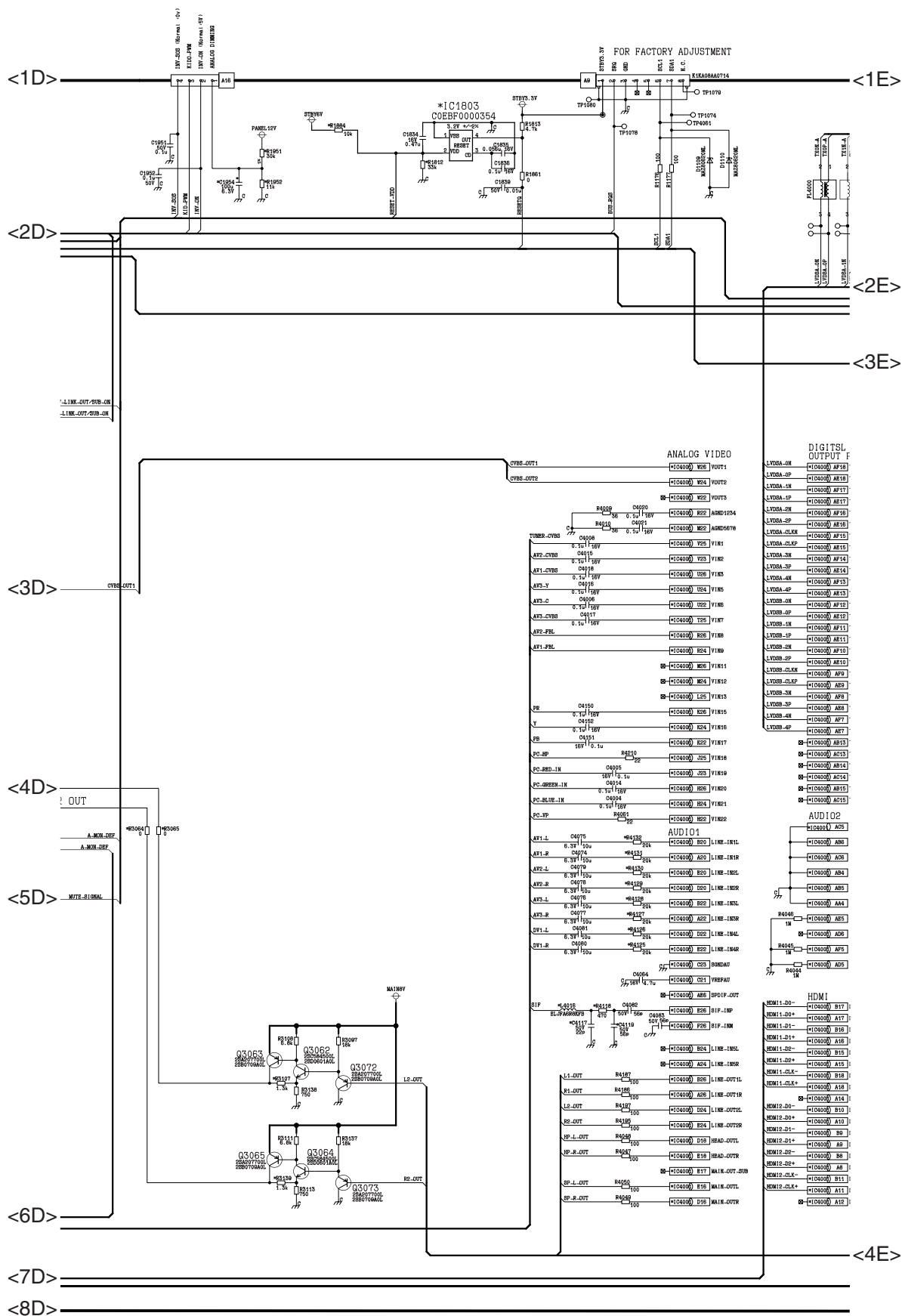
11.2.3. A Board (3 / 11)



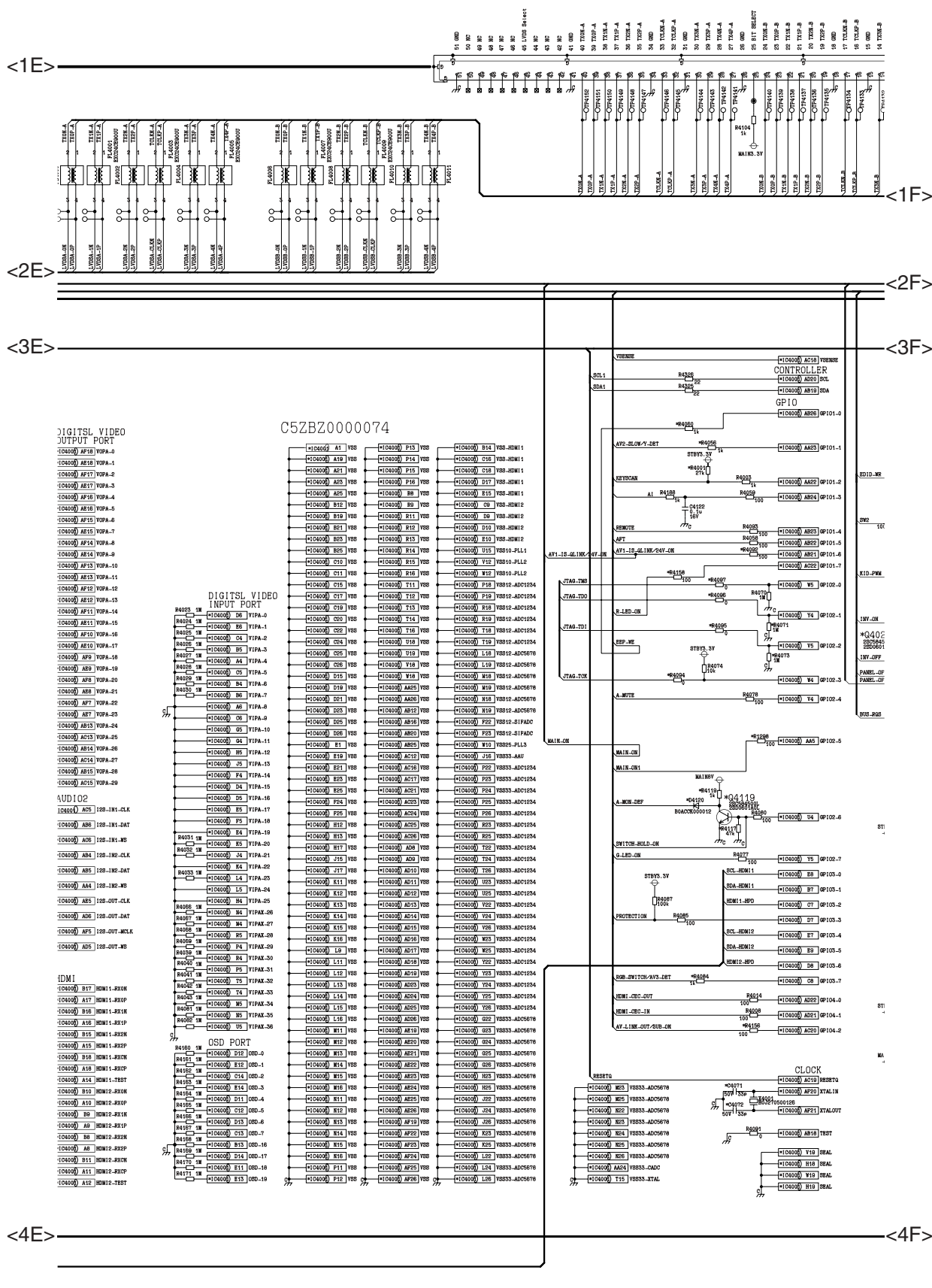
11.2.4. A Board (4 / 11)



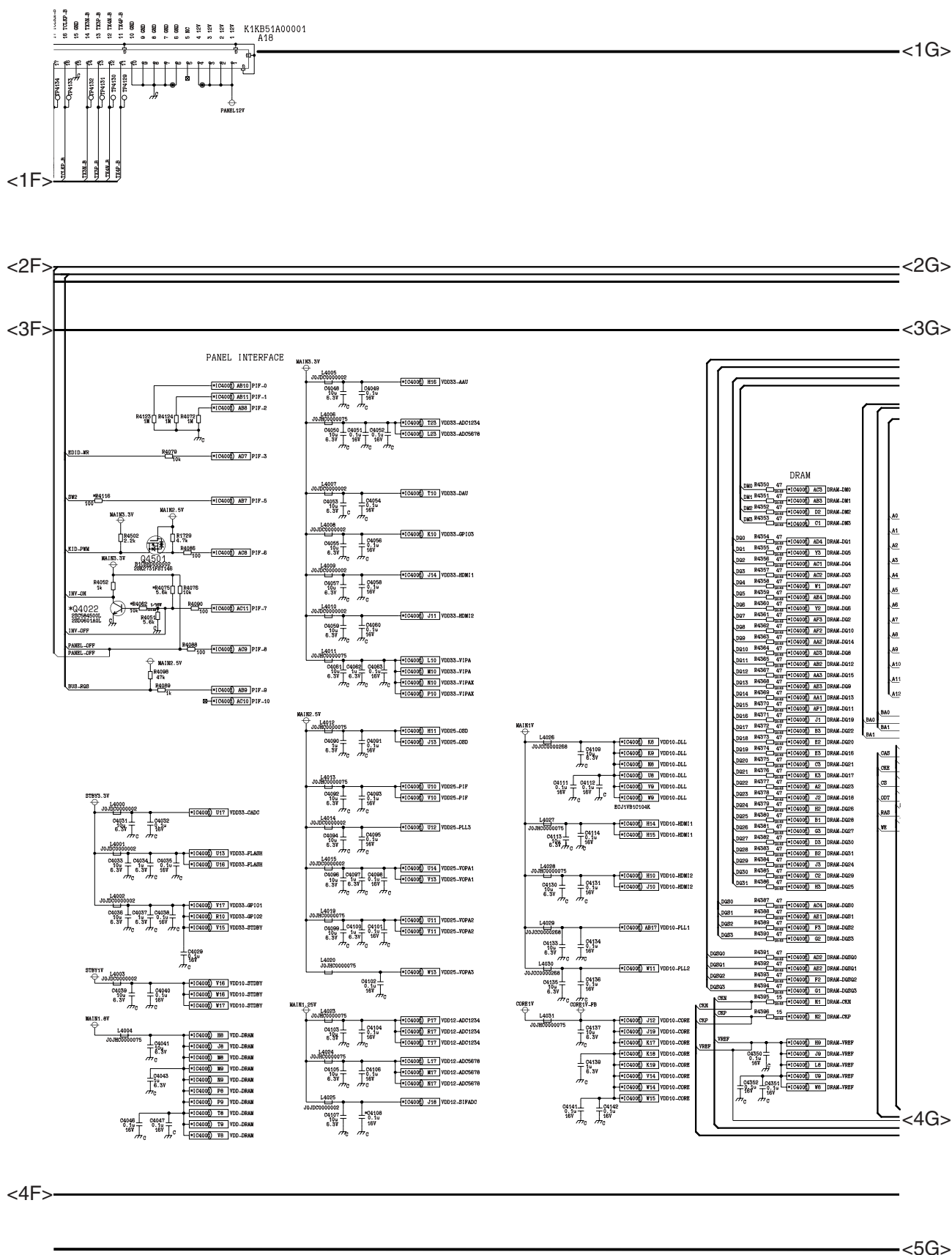
11.2.5. A Board (5 / 11)



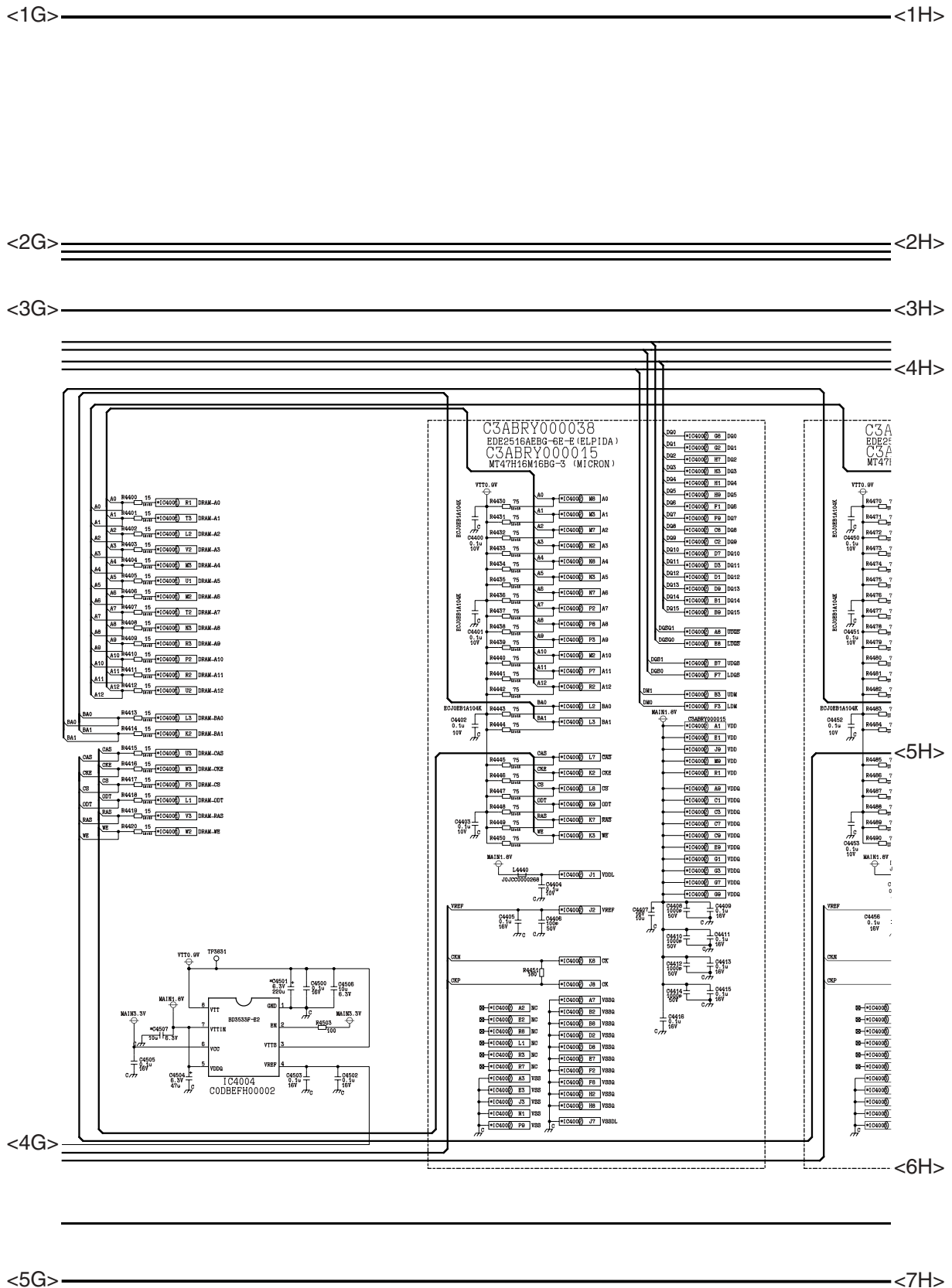
11.2.6. A Board (6 / 11)



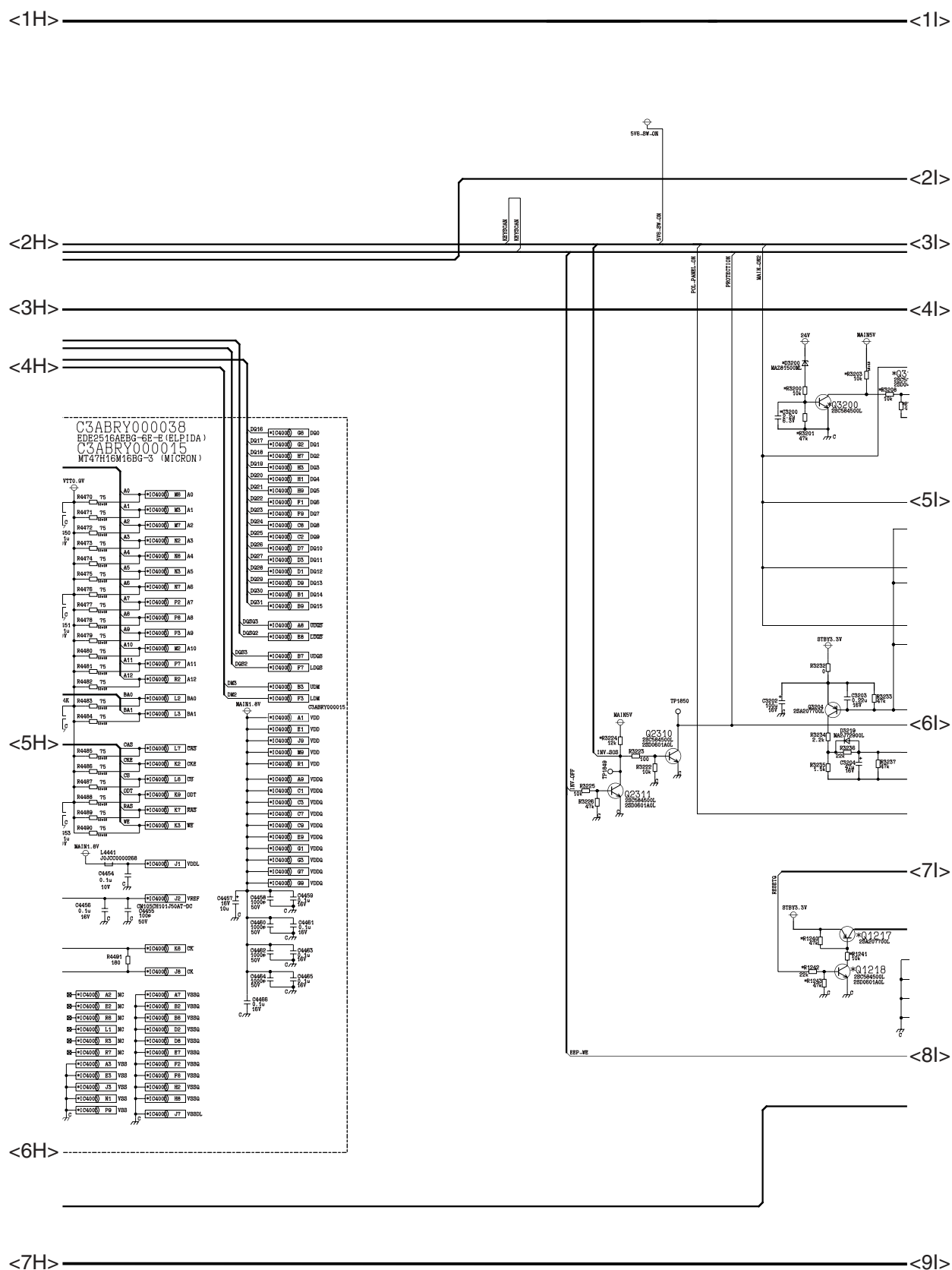
11.2.7. A Board (7 / 11)



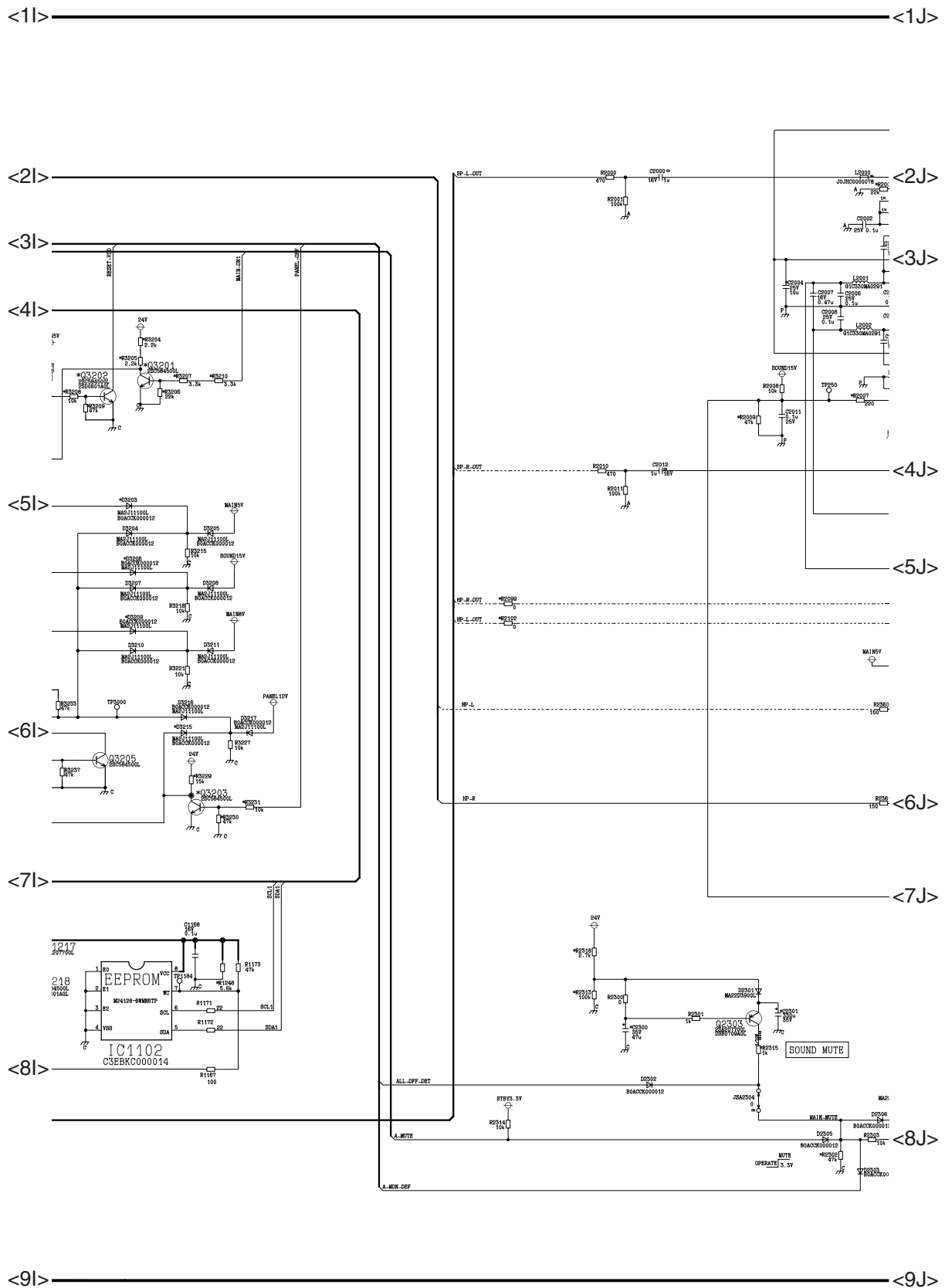
11.2.8. A Board (8 / 11)



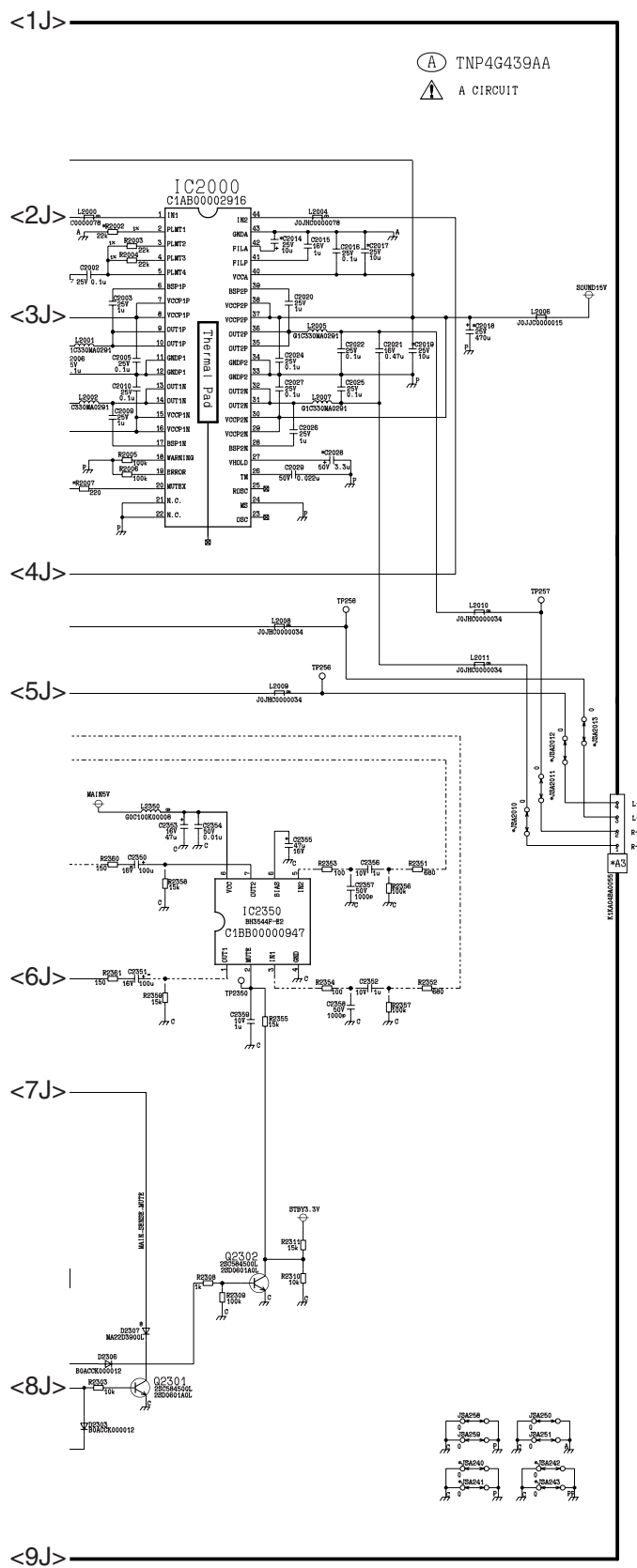
11.2.9. A Board (9 / 11)



11.2.10. A Board (10 / 11)

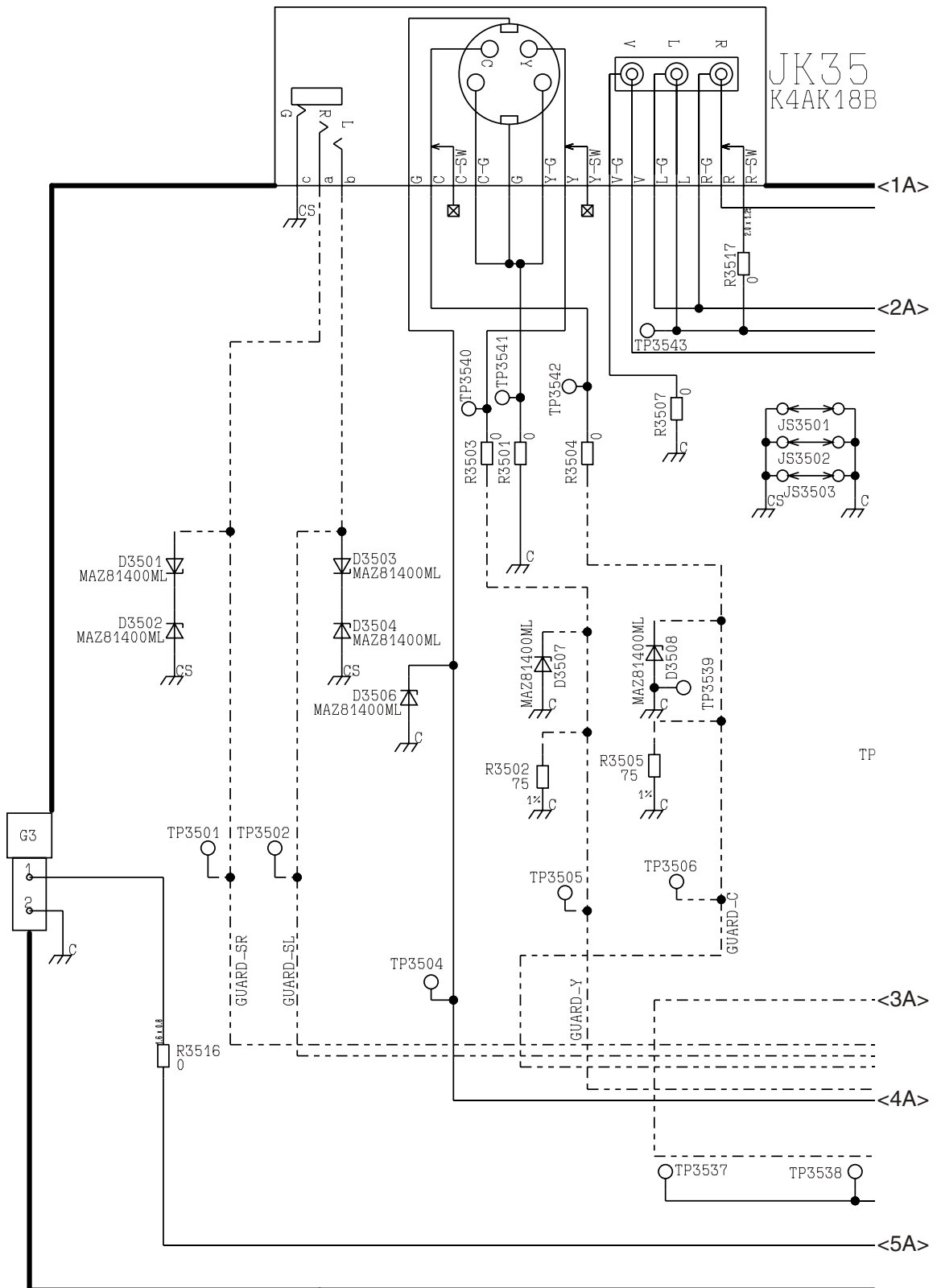


11.2.11. A Board (11 / 11)



11.3. G Board

11.3.1. G Board (1 / 2)



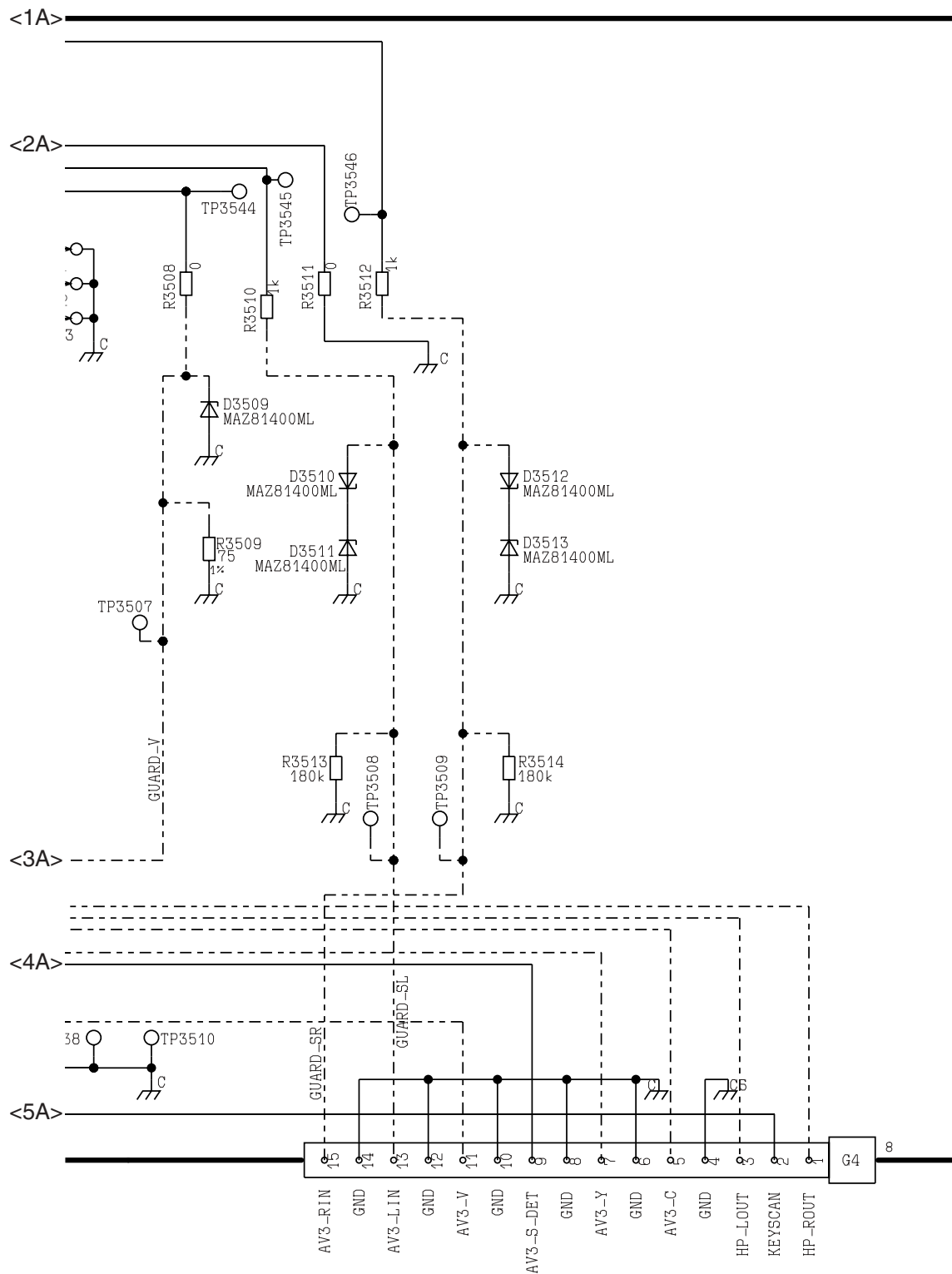
11.3.2. G Board (2 / 2)

3501
18B000004

TNP4G443AA

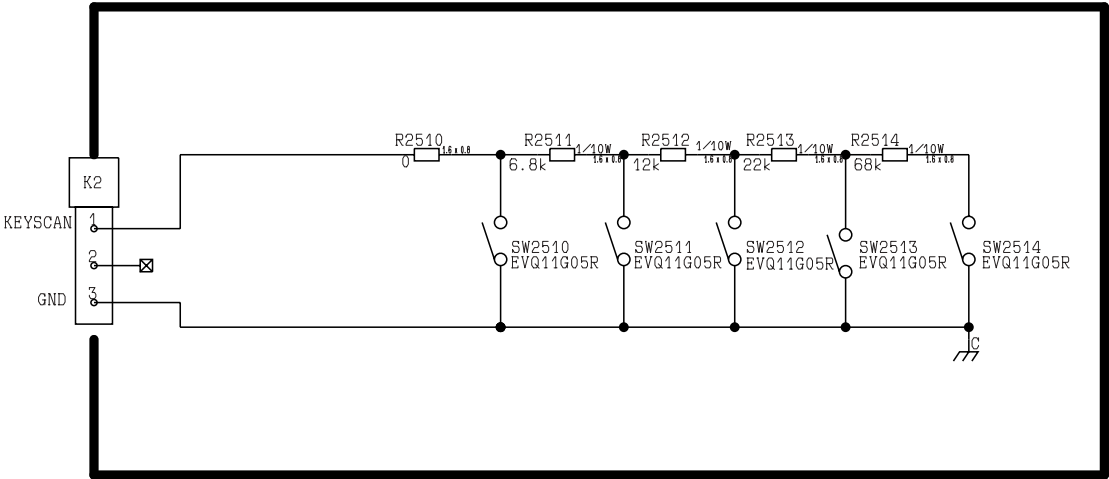


G CIRCUIT



11.4. K2 Board

11.4.1. K2 Board (1 / 1)



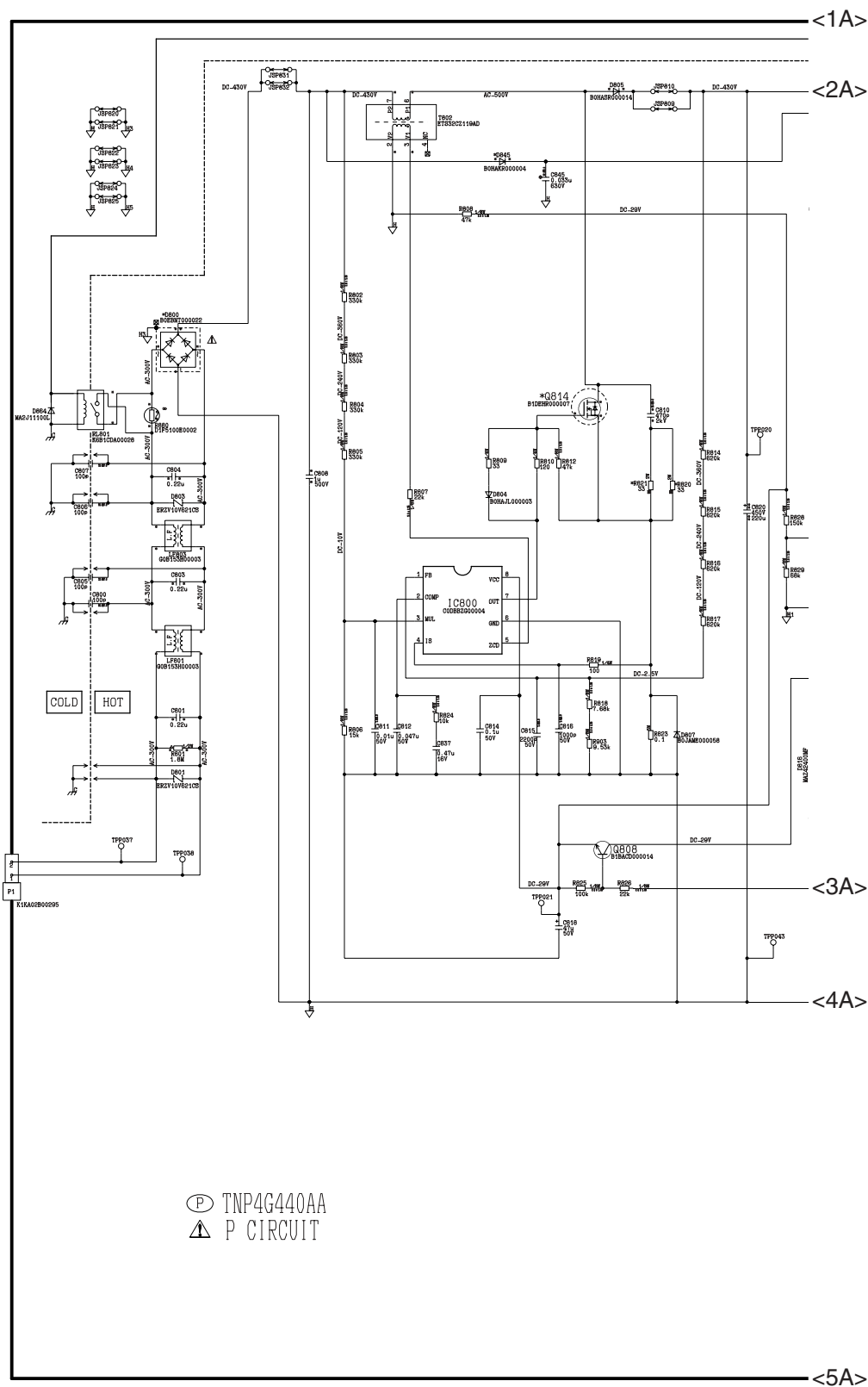
(K2) TNP4G442AA



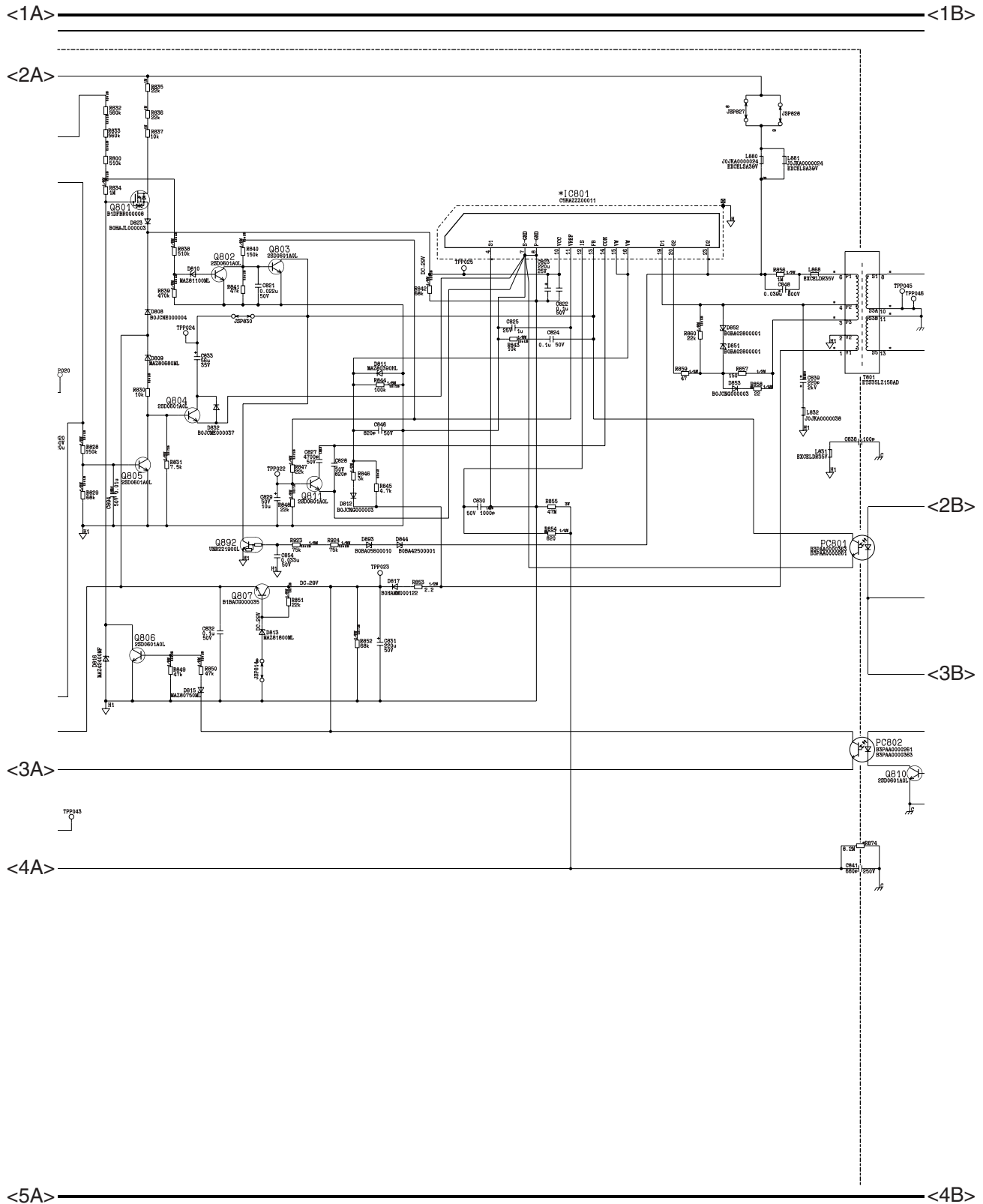
K2 CIRCUIT

11.5. P Board

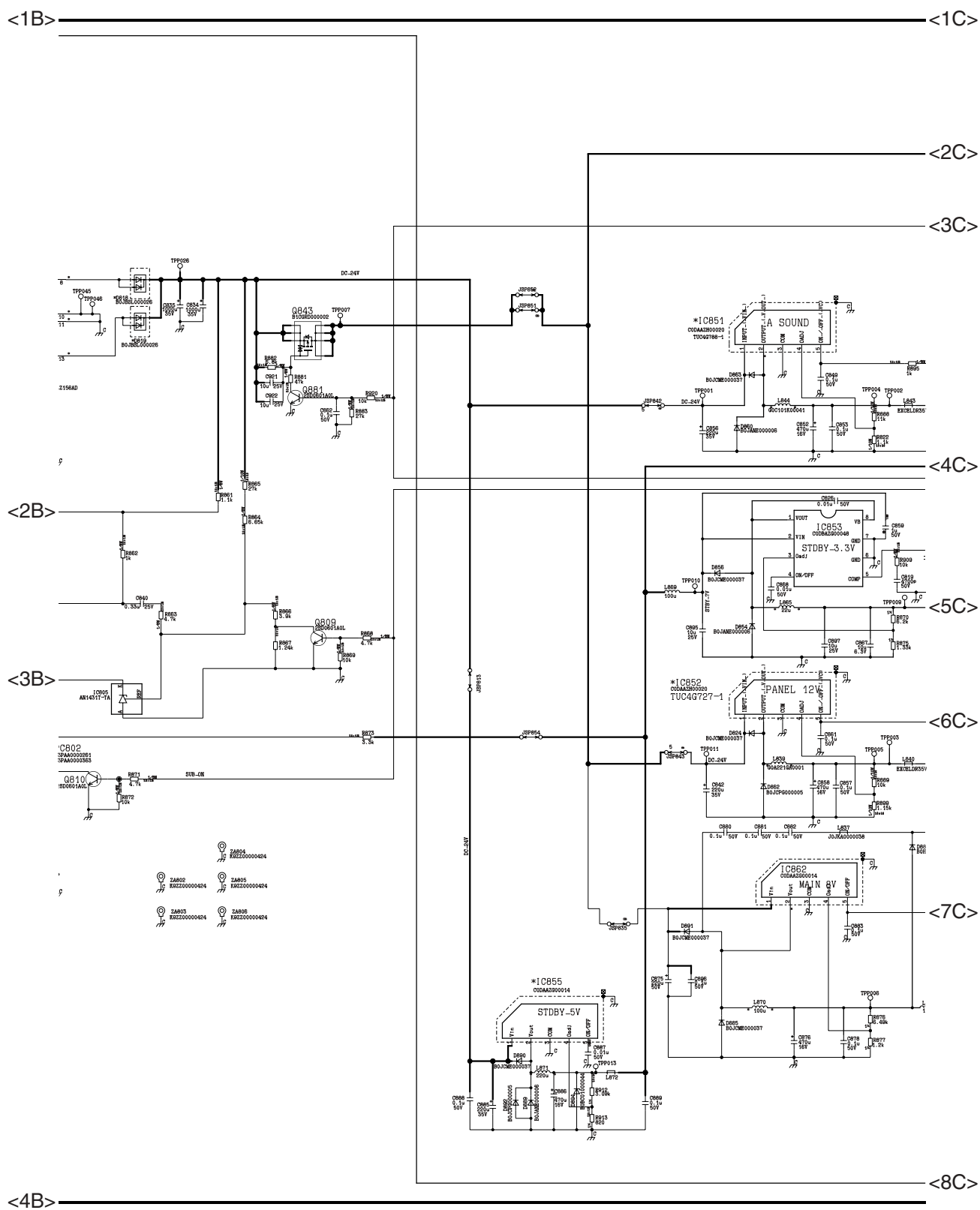
11.5.1. P Board (1 / 4)



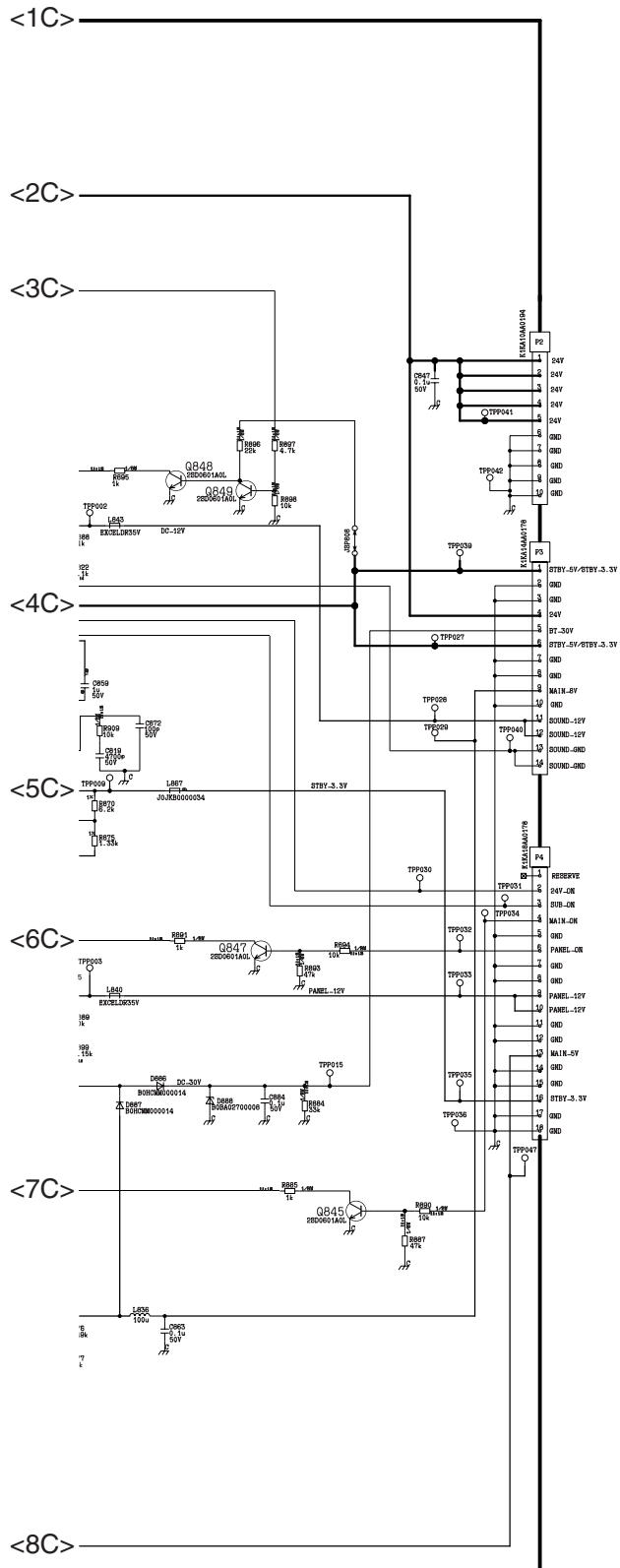
11.5.2. P Board (2 / 4)



11.5.3. P Board (3 / 4)

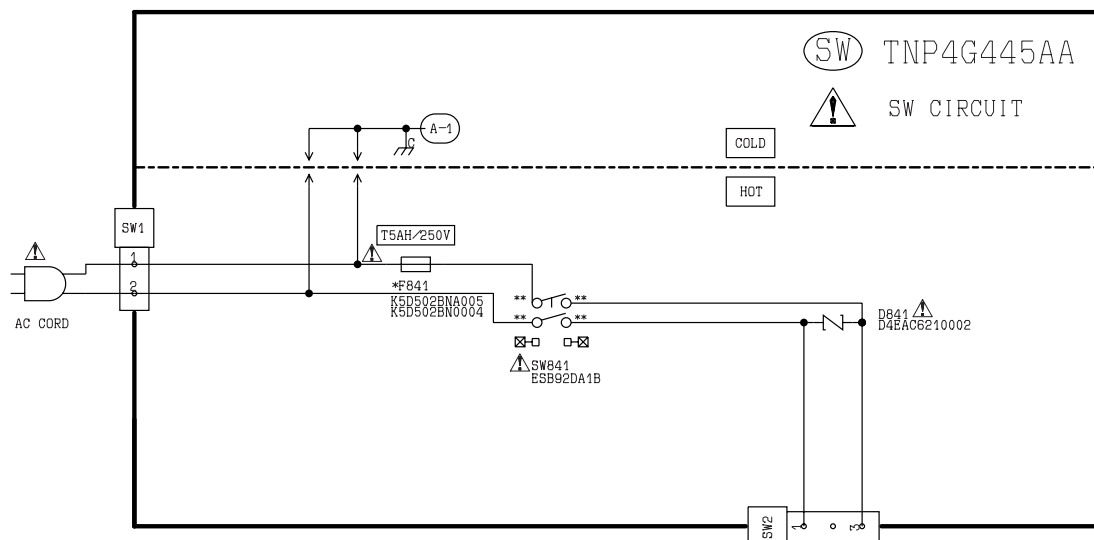


11.5.4. P Board (4 / 4)



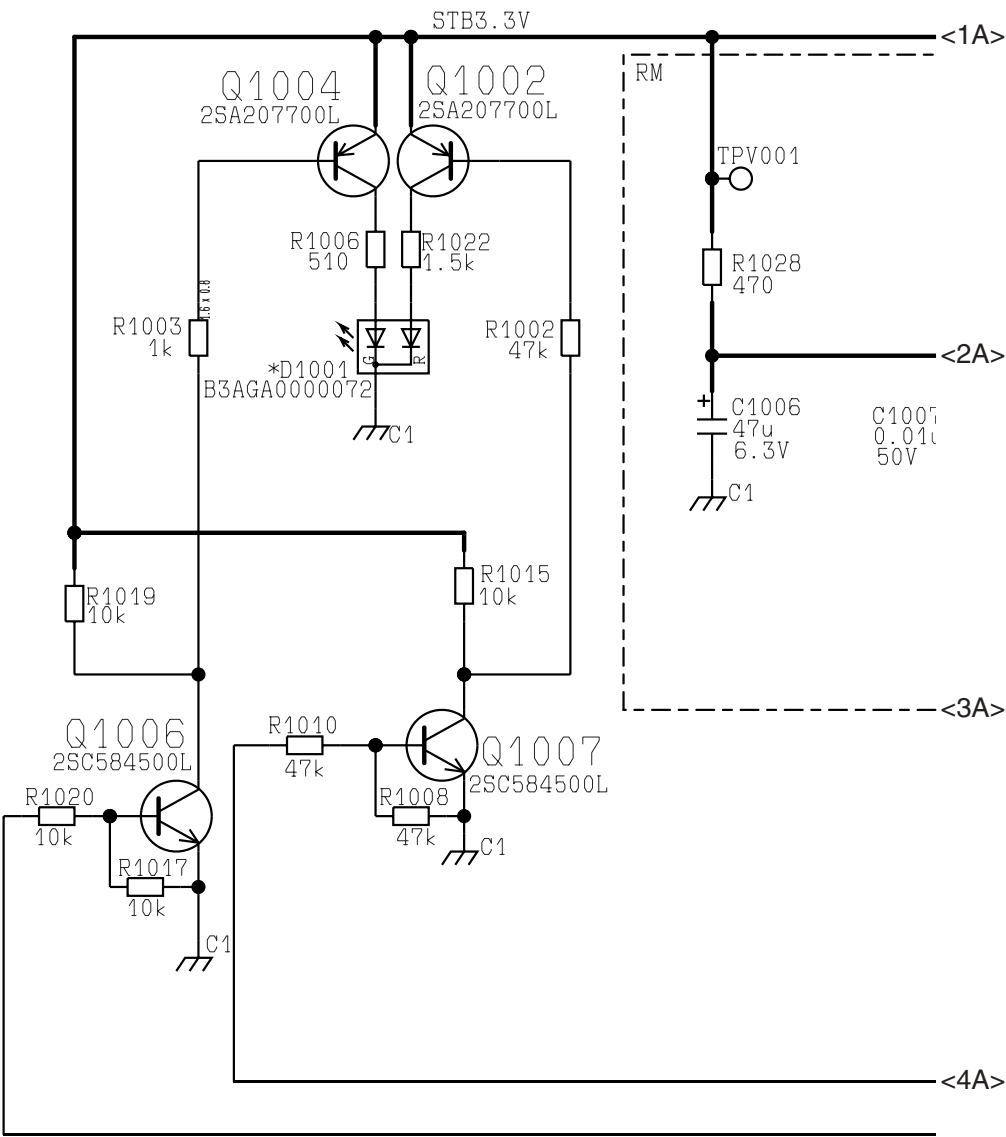
11.6. SW Board

11.6.1. SW Board (1 / 1)



11.7. V Board

11.7.1. V Board (1 / 3)

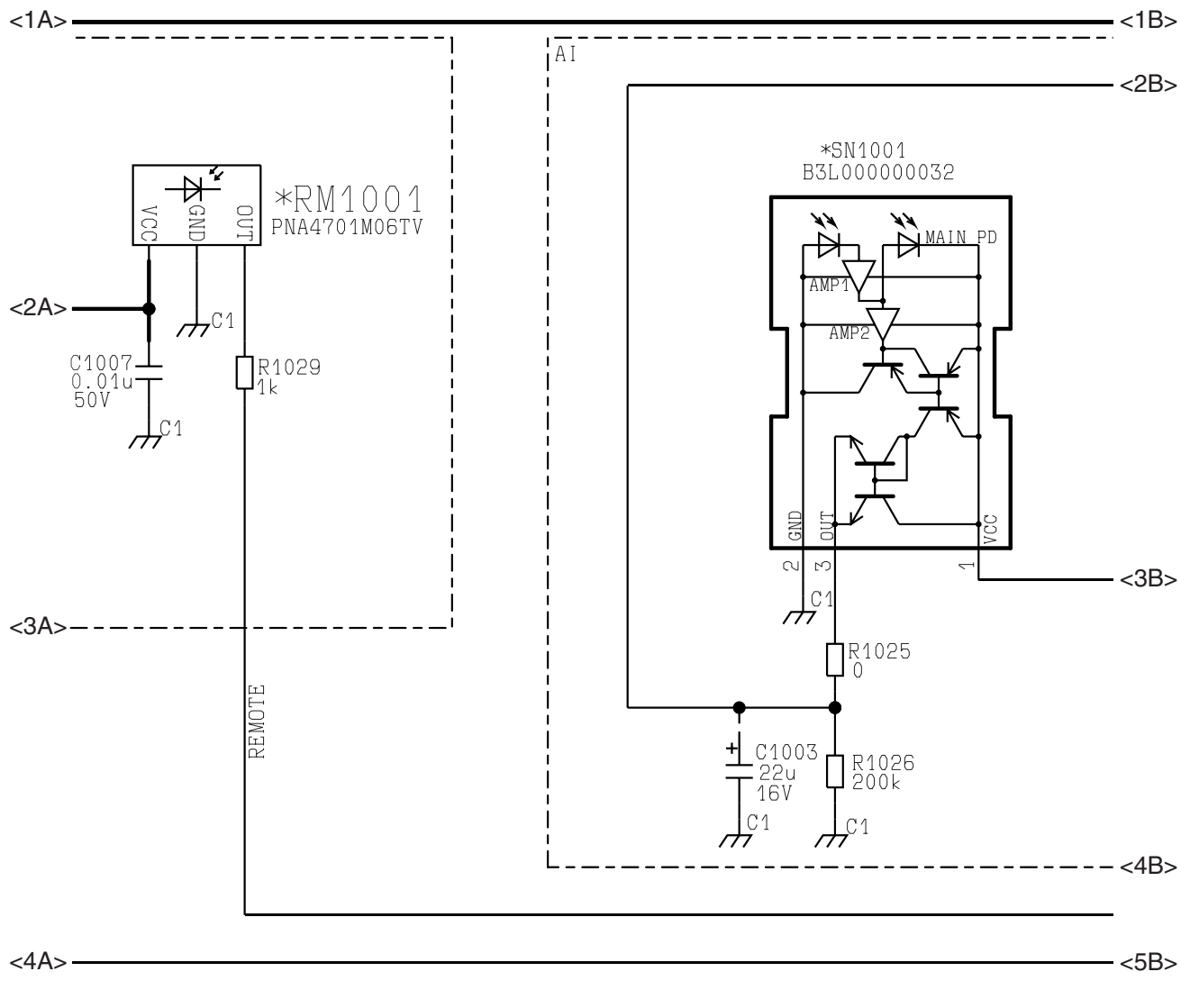


V TNP4G444AA

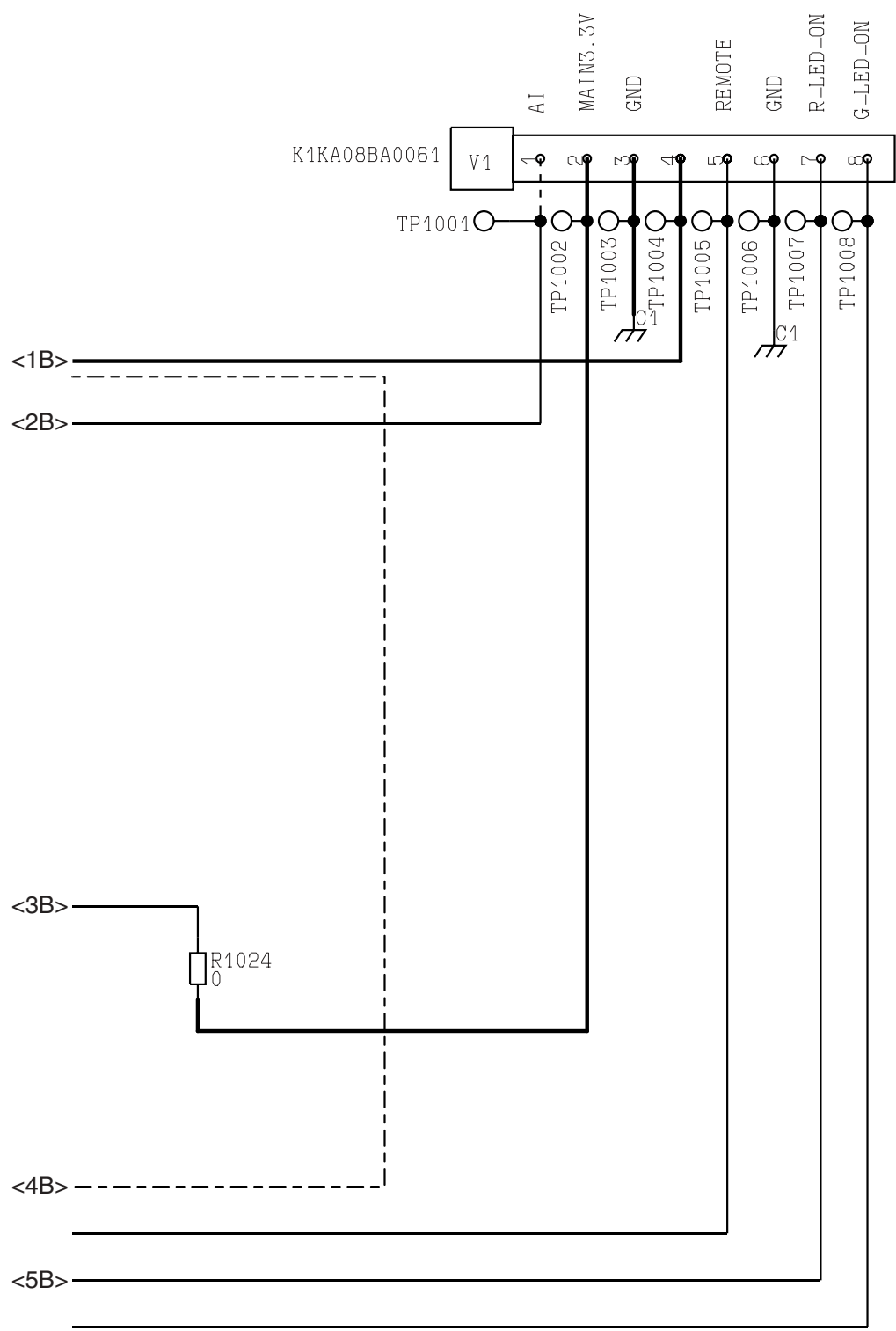


V CIRCUIT

11.7.2. V Board (2 / 3)

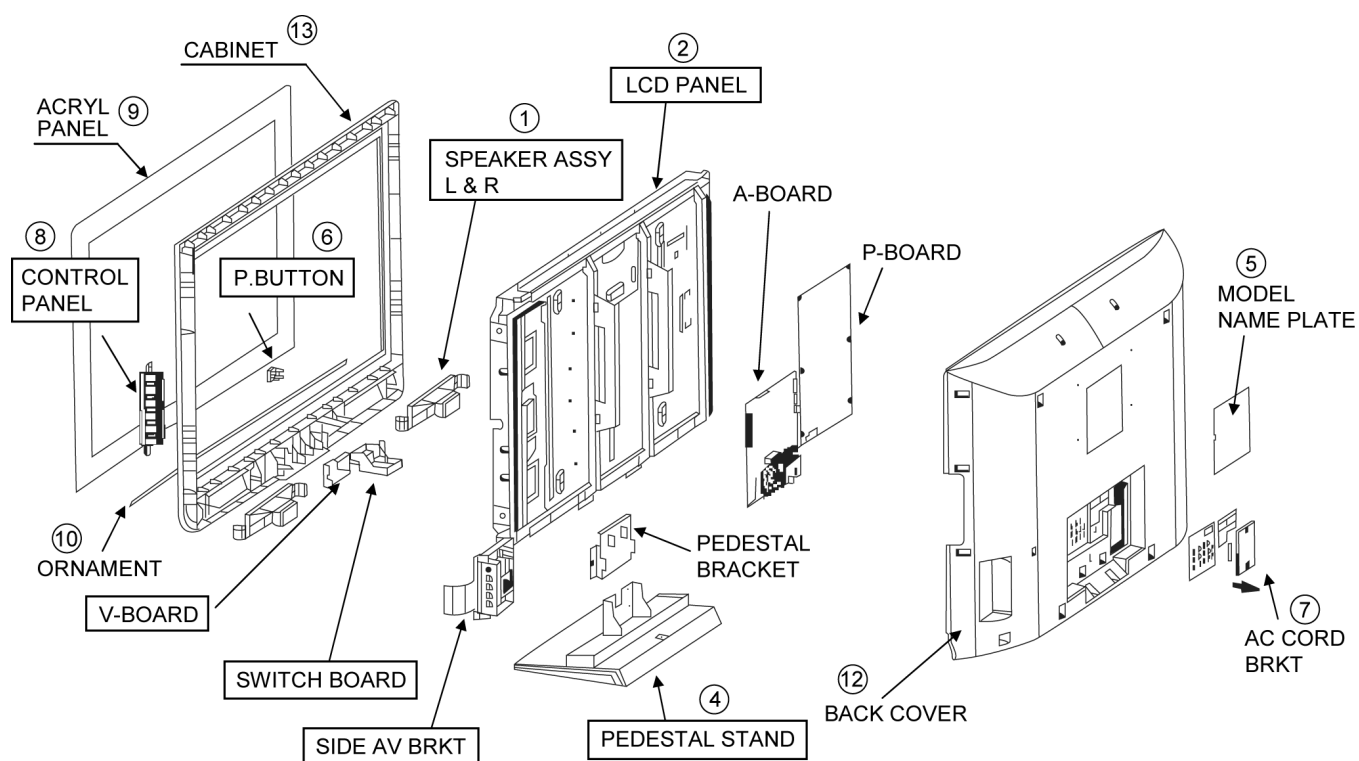


11.7.3. V Board (3 / 3)

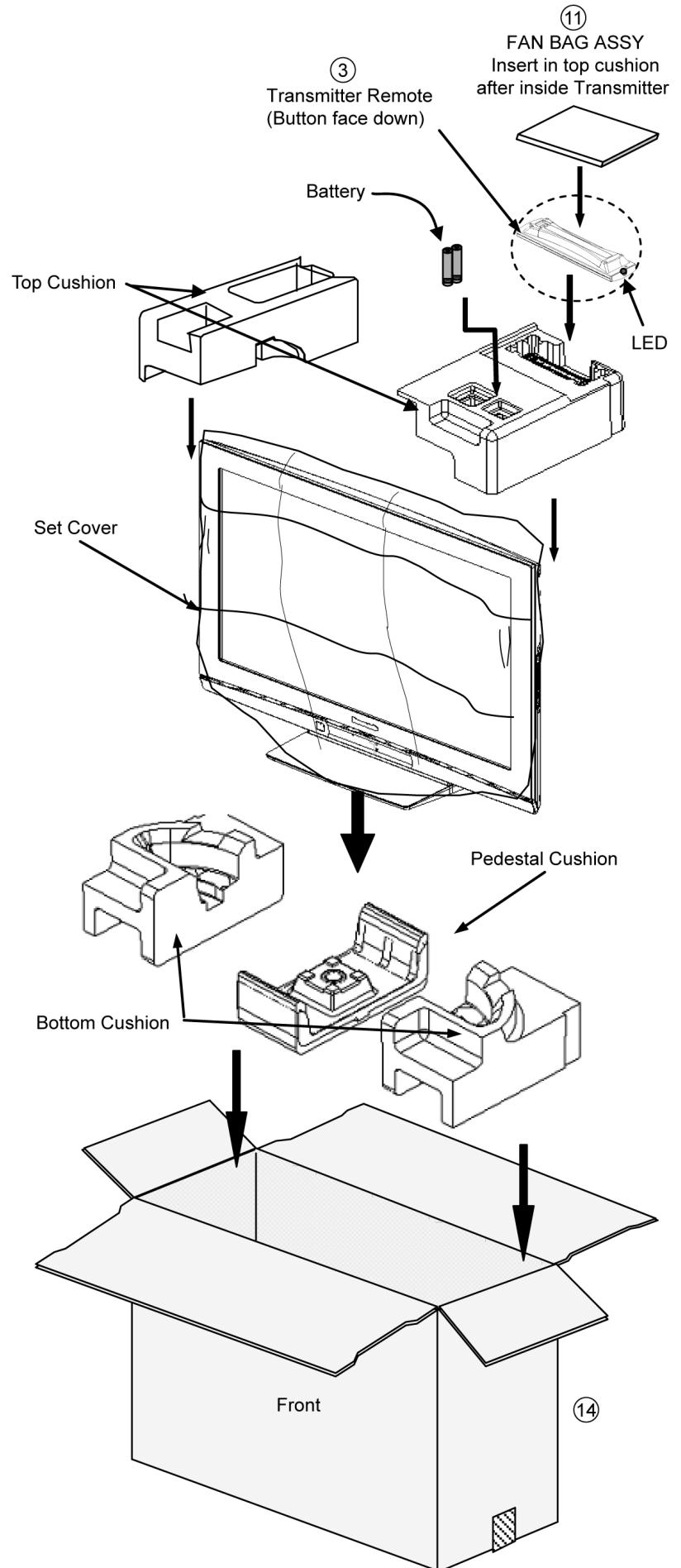
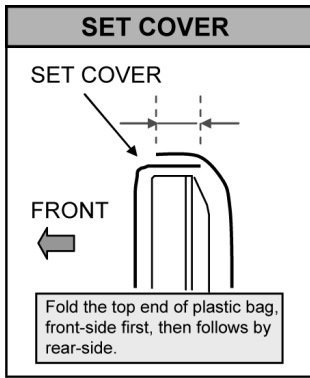


12 Parts Location & Mechanical Replacement Parts List

12.1. Parts Location



13 Packing Exploded View



14 Replacement Parts List

Important Safety Notice

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

Note: Printed circuit board assembly with "NLA" is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example :

ERD25TJ104 **C** 100 K Ω , **J**, 1/4 W
Type Allowance

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

2. Capacitor

Example :

ECKF1H103ZF **C** 0.01 μF , **Z**, 50 V
Type Allowance

Type	Allowance
C : Carbon	C : $\pm 0.25 \text{ pF}$
E : Electrolytic	D : $\pm 0.5 \text{ pF}$
P : Polyester Polypropylene	F : $\pm 1 \text{ pF}$ G : $\pm 3\%$
T : Tantalum	J : $\pm 5\%$ K : $\pm 10\%$ L : $\pm 15\%$ M : $\pm 20\%$ P : $\pm 100\%$, -0% Z : $\pm 80\%$, -20%

14.1. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
1	EAS16S07B	SPEAKER	
	J0KF00000018	FERRITE CORE	
	J0KGO0000139	CORE CLAMPER	
	K1PY51YA0008	LVDS	
	K2CQ2YY00009	AC CORD	⚠
2	L5EDD9T00008	LCD PANEL	⚠
3	N2QAKB000065	REMOTE CONTROL	
4	TBL4GA0003	PEDESTAL ASSY	
5	TBM4GC171	MODEL NAME PLATE	⚠
	TBX4GA00202	CONTROL BUTTON	
6	TBX4GA00302	POWER BUTTON	
	TKK4G8611	COVER	
	TKK4GC5001-1	LED PANEL	
7	TKP4G11745	AC CORD BRACKET	
8	TKP4GA00201	CONTROL PANEL	
	TKP4GA00301	G PCB BRACKET	
9	TKP4GA00401	ACRYLIC PANEL	
10	TKR4GA00201	ORNAMENT PANEL (BOTTOM)	
NLA	TZT/A10NQL	A PRINT	⚠
NLA	TNP4G440AA	P BOARD	⚠
NLA	TNP4G442AA	K2 BOARD	⚠
NLA	TNP4G443AA	G BOARD	⚠
NLA	TNP4G444AA	V BOARD	⚠
NLA	TNP4G445AA	SW BOARD	⚠
	TPD4GA0005	TOP CUSHION	
	TPD4GA0008	CUSHION PEDESTAL	
	TPE4G14046	SET COVER	
11	TQZ4GB097	FAN BAG	
12	TTU4GA0097-1	BACK COVER	
13	TTY4GA0014	CABINET	
14	TXFPC030NQL	PACKING CASE	
	TXFPD010NGE	BOTTOM CUSHION	
	TXFPE01RLTU	CLEANING CLOTH	
	CAPACITORS		
C1003	ECEA1CKS220	E 22UF, 16V	
C1006	ECEA0JKS470	E 47UF, 6.3V	
C1007	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1168	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1181	ECJ1VB1H102K	C 1000PF, K, 50V	
C1182	ECJ1VB1H102K	C 1000PF, K, 50V	
C1183	ECJ1VB1H104K	C 0.1UF, K, 16V	
C1185	ECJ1VB1H102K	C 1000PF, K, 50V	
C1186	ECJ1VB1H102K	C 1000PF, K, 50V	
C1800	ECJ1VB1H104K	C 0.1UF, K, 16V	
C1819	ECJ1VB1A105K	C 1UF, K, 10V	
C1820	F1J0J1060004	C 10UF, 6.3V	
C1825	ECJ1VB1H473K	C 0.047UF, 50V	
C1828	EEEBB1C470P	E 47UF, 16V	
C1831	F1G1A1040006	C 0.1UF, 10V	
C1834	ECJ2FB1C474K	C 0.47UF, K, 16V	
C1835	ECJ1VB1C563K	C 0.056UF, K, 16V	
C1836	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1839	F1H1H103A013	C 0.01UF, 50V	
C1842	F1H0J1050013	C 1UF, 6.3V	
C1844	EEEBB0J470R	E 47UF, 6.3V	
C1850	F1G1A1040006	C 0.1UF, 10V	
C1852	EEEBB1C470P	E 47UF, 16V	
C1865	ECJ1VFLA105Z	C 1UF, Z, 10V	
C1866	ECJ1VFLA105Z	C 1UF, Z, 10V	
C1867	ECJ1VFLA105Z	C 1UF, Z, 10V	
C1868	ECJ1VFLA105Z	C 1UF, Z, 10V	
C1869	EEEBB1C470P	E 47UF, 16V	
C1870	ECJ1VB1C104K	C 0.1UF, K, 16V	
C1872	F1H1H103A970	C 0.01UF, 50V	
C1873	ECJ1VB1H562K	C 5600PF, K, 50V	
C1874	ECJ1VB1A105K	C 1UF, K, 10V	
C1875	EEEBB1A221P	C 220UF, 10V	
C1876	ECJ3YB1E106M	C 10UF, 25V	
C1879	ECJ1VB1A105K	C 1UF, K, 10V	
C1880	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1881	F2A1V331A127	E 330UF, 35V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1882	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1883	ECJ1VB1H472K	C 4700PF, K, 50V	
C1884	ECJ1VC1H101J	C 100PF, J, 50V	
C1885	F2A1C471A537	E 470UF, 16V	
C1886	ECJ1VB1H104K	C 0.1UF, K, 50V	
C1887	ECJ1VB1H104K	C 0.1UF, K, 50V	
C1888	F2A1C331A127	E 330UF, 16V	
C1889	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1890	ECJ1VB1H222K	C 2200PF, K, 50V	
C1893	ECJ1VB1H104K	C 0.1UF, 50V	
C1897	ECJ3YB1E106M	C 10UF, 25V	
C1898	ECJ3YB1E106M	C 10UF, 25V	
C1903	ECJ3YB1E106M	C 10UF, 25V	
C1904	EEEBB0G221P	C 220UF, 10V	
C1905	ECJ1VB1A105K	C 1UF, K, 10V	
C1907	ECJ1VB1A105K	C 1UF, K, 10V	
C1908	F1K0J226A008	C 2200PF, 50V	
C1910	F1J1H473A835	C 0.047UF, 50V	
C1911	F2A1V331A127	E 0.047UF, 50V	
C1912	F1H1H103A970	C 0.01UF, 50V	
C1914	F1G1H271A730	C 270PF, 50V	
C1915	F1H1H222A970	C 2200PF, 50V	
C1917	F1K0J226A008	C 22UF, 6.3V	
C1918	F1K0J226A008	C 22UF, 6.3V	
C1920	EEEBB0G221P	E 220UF, 4V	
C1921	ECJ1VB1A105K	C 1UF, K, 10V	
C1923	ECJ1VB1A105K	C 1UF, K, 10V	
C1924	ECJ3YB1E106M	C 10UF, 25V	
C1925	ECJ1VB1H562K	C 5600PF, K, 50V	
C1931	ECJ1VB1A105K	C 1UF, K, 10V	
C1932	ECJ3YB1E106M	C 10UF, 25V	
C1934	F1H1H103A970	C 2200PF, 50V	
C1951	ECJ1VB1H104K	C 0.1UF, 50V	
C1952	ECJ1VB1H104K	C 0.1UF, 50V	
C1954	EEEBB0J101P	E 100UF, 6.3V	
C1971	ECJ0EB1A104K	C 0.1UF, 10V	
C2000	ECJ1VB1C105K	C 1UF, 16V	
C2002	F1H1E104A129	C 0.1UF, 25V	
C2003	ECJ2FB1E105K	C 1UF, 25V	
C2004	ECJ3YB1E106M	C 10UF, 25V	
C2005	F1H1E104A129	C 0.1UF, 25V	
C2006	F1H1E104A129	C 0.1UF, 25V	
C2007	F1J1C474A194	C 0.47UF, 16V	
C2008	F1H1E104A129	C 0.1UF, 25V	
C2009	ECJ2FB1E105K	C 1UF, 25V	
C2010	F1H1E104A129	C 0.1UF, 25V	
C2011	F1H1E104A129	C 0.1UF, 25V	
C2012	ECJ1VB1C105K	C 1UF, 16V	
C2014	F2A1E100A206	E 10UF, 25V	
C2015	ECJ1VB1C105K	C 1UF, 16V	
C2016	F1H1E104A129	C 0.1UF, 25V	
C2017	ECJ3YB1E106M	C 10UF, 25V	
C2018	F2A1E471A199	E 470UF, 25V	
C2019	ECJ3YB1E106M	C 10UF, 25V	
C2020	ECJ2FB1E105K	C 1UF, 16V	
C2021	F1J1C474A194	C 0.47UF, 16V	
C2022	F1H1E104A129	C 0.1UF, 25V	
C2024	F1H1E104A129	C 0.1UF, 25V	
C2025	F1H1E104A129	C 0.1UF, 25V	
C2026	ECJ2FB1E105K	C 1UF, 16V	
C2027	F1H1E104A129	C 0.1UF, 25V	
C2028	ECA1HM3R3B	E 3.3UF, 50V	
C2029	F1H1H223A970	C 0.022UF, 50V	
C2300	EEEBB1V470UP	E 47UF, 35V	
C2301	EEEFK1V331P	C 330UF, 35V	
C2350	ECA1CM101B	E 100UF, 16V	
C2351	ECA1CM101B	E 100UF, 16V	
C2352	F1H1A1050032	C 1UF, 10V	
C2353	ECA1CM470B	E 47UF, 16V	
C2354	F1H1H103A970	C 0.01UF, 50V	
C2355	ECA1CM470B	E 47UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2356	FIH1A1050032	C 1UF, 10V	
C2357	FIH1H102A219	C 1000UF, 50V	
C2358	FIH1H102A219	C 1000UF, 50V	
C2359	FIH1A1050032	C 1UF, 10V	
C3056	ECJ3YB1C105K	C 1UF, 16V	
C3058	ECJ3YB1C105K	C 1UF, 16V	
C3064	EEH80J331UP	E 330UF, 6.3V	
C3065	ECJ1VB1C104K	C 0.1UF, K, 16V	
C3067	FIJ0J1060004	C 10UF, 6.3V	
C3071	ECJ1VC1H102J	C 1000PF, J, 50V	
C3072	ECJ1VC1H102J	C 1000PF, J, 50V	
C3077	ECJ1VB1A105K	C 1UF, 10V	
C3200	ECJ1VB0J225K	C 2.2UF, 6.3V	
C3202	EEH81C101UP	E 100UF, 16V	
C3203	ECJ1VB1C224K	C 0.22UF, 16V	
C3204	EEH81C470P	E 47UF, 16V	
C3863	ECJ1VF1A105Z	C 1UF, Z, 10V	
C3870	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C3874	ECJ1VB1C104K	C 0.1UF, K, 16V	
C3889	FIH1H103A013	C 0.01UF, 50V	
C3902	EEH80J101P	E 100UF, 6.3V	
C3903	ECJ1VB1C104K	C 0.1UF, K, 16V	
C3905	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4004	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4005	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4006	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4008	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4014	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4015	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4016	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4017	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4018	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4020	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4021	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4029	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4031	ECJ2FB0J106M	C 10UF, 6.3V	
C4032	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4033	ECJ2FB0J106M	C 10UF, 6.3V	
C4034	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4035	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4036	ECJ2FB0J106M	C 10UF, 6.3V	
C4037	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4038	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4039	ECJ2FB0J106M	C 10UF, 6.3V	
C4040	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4041	ECJ2FB0J106M	C 10UF, 6.3V	
C4043	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4046	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4047	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4048	ECJ2FB0J106M	C 10UF, 6.3V	
C4049	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4050	ECJ2FB0J106M	C 10UF, 6.3V	
C4051	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4052	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4053	ECJ2FB0J106M	C 10UF, 6.3V	
C4054	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4055	ECJ2FB0J106M	C 10UF, 6.3V	
C4056	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4057	ECJ2FB0J106M	C 10UF, 6.3V	
C4058	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4059	ECJ2FB0J106M	C 10UF, 6.3V	
C4060	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4061	ECJ2FB0J106M	C 10UF, 6.3V	
C4062	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4063	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4064	ECJ2FB1C475K	C 10UF, 6.3V	
C4071	ECJ1VC1H330J	C 33PF, J, 50V	
C4072	ECJ1VC1H330J	C 33PF, J, 50V	
C4074	FIJ0J1060004	C 10UF, 6.3V	
C4075	FIJ0J1060004	C 10UF, 6.3V	
C4076	FIJ0J1060004	C 10UF, 6.3V	
C4077	FIJ0J1060004	C 10UF, 6.3V	
C4078	FIJ0J1060004	C 10UF, 6.3V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4079	FIJ0J1060004	C 10UF, 6.3V	
C4080	FIJ0J1060004	C 10UF, 6.3V	
C4081	FIJ0J1060004	C 10UF, 6.3V	
C4082	ECJ1VC1H560J	C 56PF, J, 50V	
C4083	ECJ1VC1H560J	C 56PF, J, 50V	
C4090	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4091	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4092	ECJ2FB0J106M	C 10UF, 6.3V	
C4093	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4094	ECJ2FB0J106M	C 10UF, 6.3V	
C4095	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4096	ECJ2FB0J106M	C 10UF, 6.3V	
C4097	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4098	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4099	ECJ2FB0J106M	C 10UF, 6.3V	
C4100	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4101	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4102	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4103	ECJ2FB0J106M	C 10UF, 6.3V	
C4104	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4105	ECJ2FB0J106M	C 10UF, 6.3V	
C4106	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4107	ECJ2FB0J106M	C 10UF, 6.3V	
C4108	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4109	ECJ2FB0J106M	C 10UF, 6.3V	
C4111	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4112	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4113	ECJ2FB0J106M	C 10UF, 6.3V	
C4114	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4117	ECJ1VC1H220J	C 22PF, J, 50V	
C4119	ECJ1VC1H560J	C 56PF, J, 50V	
C4120	ECJ1VC1H101J	C 100PF, J, 50V	
C4121	ECJ1VC1H101J	C 100PF, J, 50V	
C4122	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
C4130	ECJ2FB0J106M	C 10UF, 6.3V	
C4131	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4133	ECJ2FB0J106M	C 10UF, 6.3V	
C4134	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4135	ECJ2FB0J106M	C 10UF, 6.3V	
C4136	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4137	ECJ2FB0J106M	C 10UF, 6.3V	
C4139	ECJ1VB0J105K	C 1UF, K, 6.3V	
C4141	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4142	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4150	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4151	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4152	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4350	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4351	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4352	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4400	ECJ0EB1A104K	C 0.1UF, 10V	
C4401	ECJ0EB1A104K	C 0.1UF, 10V	
C4402	ECJ0EB1A104K	C 0.1UF, 10V	
C4403	ECJ0EB1A104K	C 0.1UF, 10V	
C4404	ECJ0EB1A104K	C 0.1UF, 10V	
C4405	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4406	FIH1H101A971	C 100UF, 50V	
C4407	EEH81C100R	E 10UF, 16V	
C4408	ECJ1VB1H102K	C 1000PF, K, 50V	
C4409	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4410	ECJ1VB1H102K	C 1000PF, K, 50V	
C4411	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4412	ECJ1VB1H102K	C 1000PF, K, 50V	
C4413	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4414	ECJ1VB1H102K	C 1000PF, K, 50V	
C4415	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4416	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4450	ECJ0EB1A104K	C 0.1UF, 10V	
C4451	ECJ0EB1A104K	C 0.1UF, 10V	
C4452	ECJ0EB1A104K	C 0.1UF, 10V	
C4453	ECJ0EB1A104K	C 0.1UF, 10V	
C4454	ECJ0EB1A104K	C 0.1UF, 10V	
C4455	FIH1H101A971	C 100UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4456	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4457	EEEBB1C100R	E 10UF, 16V	
C4458	ECJ1VB1H102K	C 1000PF, K, 50V	
C4459	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4460	ECJ1VB1H102K	C 1000PF, K, 50V	
C4461	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4462	ECJ1VB1H102K	C 1000PF, K, 50V	
C4463	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4464	ECJ1VB1H102K	C 1000PF, K, 50V	
C4465	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4466	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4500	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4501	F2G0J2210013	E 220UF, 6.3V	
C4502	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4503	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4504	EEEBB0J470R	E 47UF, 6.3V	
C4505	ECJ1VB1C104K	C 0.1UF, K, 16V	
C4506	ECJ2FB0J106M	C 10UF, 6.3V	
C4507	ECJ2FB0J106M	C 10UF, 6.3V	
C5003	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5004	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5054	F1H1H221A971	C 220PF, 50V	
C5055	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5056	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5057	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5058	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5059	ECJ1VB1C104K	C 0.1UF, K, 16V	
C5060	F1G1A1040006	C 0.1UF, 10V	
C5061	F1G1A1040006	C 0.1UF, 10V	
C800	ECKCNA101MB7	C 100PF, M,	
C801	F0CAF224A066	P 0.22UF, 300V	⚠
C803	F0CAF224A066	P 0.22UF, 300V	⚠
C804	F0CAF224A066	P 0.22UF, 300V	⚠
C805	ECKCNA101MB7	C 100PF, M,	⚠
C806	ECKCNA101MB7	C 100PF, M,	⚠
C807	ECKCNA101MB7	C 100PF, M,	
C808	F0C2H105A011	P 1UF, 500V	
C810	ECKW3D471KBP	C 470PF, K, 2KV	
C811	ECJ1VB1H103K	C 0.01UF, K, 50V	
C812	ECJ1VB1H473K	C 0.047UF, K, 50V	
C814	ECJ1VB1H104K	C 0.1UF, K, 50V	
C815	ECJ1VB1H222K	C 2200PF, K, 50V	
C816	ECJ1VB1H102K	C 1000PF, K, 50V	
C818	ECA1HM470B	E 47UF, 50V	
C819	ECJ1VB1H472K	C 4700PF, K, 50V	
C820	F2B2W2210005	E 220UF, 450V	
C821	ECJ1VB1H223K	C 0.022UF, K, 50V	
C822	ECJ1VB1H104K	C 0.1UF, K, 50V	
C823	F2A1E221A487	E 220UF, 25V	
C824	ECJ1VB1H104K	C 0.1UF, K, 50V	
C825	ECJ2FB1E105K	C 0.1UF, K, 25V	
C826	ECJ1VB1H103K	C 0.01UF, K, 50V	
C827	ECJ1VB1H472K	C 4700PF, K, 50V	
C828	F1H1H821A971	C 820PF, J, 50V	
C829	F2A1H100A317	E 10UF, 50V	
C830	ECJ1VB1H102K	C 1000PF, K, 50V	
C831	F2A1H221A115	E 220UF, 50V	
C832	ECJ1VB1H104K	C 0.1UF, K, 50V	
C833	F2A1V5600014	E 56UF, 35V	
C834	F2A1V1020043	E 1000UF, 35V	
C835	F2A1V1020043	E 1000UF, 35V	
C837	ECJ2FB1C474K	C 0.47UF, K, 16V	
C838	F1A2E101A002	C 10PF, K, 250V	
C839	ECKW3D221KBP	C 220PF, K, 2kV	
C840	F1J1E3340003	C 0.33UF, 25V	
C841	F1A2E681A002	C 680PF, 250V	
C842	F2A1V221A470	E 220UF, 35V	
C845	ECQE6333JF	P 0.033UF, K, 630V	
C846	F1H1H821A971	C 820PF, J, 50V	
C847	ECJ1VB1H104K	C 0.1UF, K, 50V	
C848	F0C2K393A035	P 0.039UF, 800V	
C849	ECJ1VB1H104K	C 0.1UF, K, 50V	
C852	F2A1C471A537	E 470UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C853	ECJ1VB1H104K	C 0.1UF, K, 50V	
C854	ECJ1VB1H333K	C 0.033UF, K, 50V	
C856	F2A1V221A470	E 220UF, 35V	
C857	ECJ1VB1H104K	C 0.1UF, K, 50V	
C858	F2A1C471A537	E 470UF, 16V	
C859	ECQV1H105JM	P 1UF, J, 50V	
C861	ECJ1VB1H104K	C 0.1UF, K, 50V	
C862	ECJ1VB1H104K	C 0.1UF, K, 50V	
C863	ECJ1VB1H104K	C 0.1UF, K, 50V	
C867	F1J0J1060004	E 10UF, 6.3V	
C868	ECJ1VB1H103K	C 0.01UF, K, 50V	
C872	ECJ1VC1H101J	C 100PF, J, 50V	
C875	F2A1H221A115	E 220UF, 50V	
C876	F2A1C471A537	E 470UF, 16V	
C878	ECJ1VB1H104K	C 0.1UF, K, 50V	
C880	ECJ1VB1H104K	C 0.1UF, K, 50V	
C881	ECJ1VB1H104K	C 0.1UF, K, 50V	
C882	ECJ1VB1H104K	C 0.1UF, K, 50V	
C883	ECJ1VB1H104K	C 0.1UF, K, 50V	
C884	ECJ1VB1H104K	C 0.1UF, K, 50V	
C885	F2A1V221A470	E 220UF, 35V	
C886	F2A1C471A537	E 470UF, 16V	
C887	ECJ1VB1H103K	C 0.01UF, K, 50V	
C888	ECJ1VB1H104K	C 0.1UF, K, 50V	
C889	ECJ1VB1H104K	C 0.1UF, K, 50V	
C894	ECJ1VB1H103K	C 0.01UF, K, 50V	
C895	ECJ3YB1E106M	C 10UF, 25V	
C896	ECJ1VB1H104K	C 0.1UF, K, 50V	
C897	ECJ3YB1E106M	C 10UF, 25V	
C921	ECJ3YB1E106M	C 10UF, 25V	
C922	ECJ3YB1E106M	C 10UF, 25V	
	DIODES		
D1001	B3AGA0000072	LED	
D1109	MAZ80620ML	DIODE	
D1110	MAZ80620ML	DIODE	
D1812	MAZ81600HL	DIODE	
D1813	B0ACCK000012	DIODE	
D1814	MAZ80620LL	DIODE	
D1815	B0ACCK000012	DIODE	
D1816	MAZ81300ML	DIODE	
D1817	B0ACCK000012	DIODE	
D1818	MAZ80820ML	DIODE	
D1819	B0ACCK000012	DIODE	
D1824	MAZ82700ML	DIODE	
D1825	B0ACCK000012	DIODE	
D1828	B0ACCK000012	DIODE	
D1829	B0ACCK000012	DIODE	
D1881	B0JCME000037	DIODE	
D1882	B0JCPG000005	DIODE	
D1885	MA24D5000B	DIODE	
D1886	MAZ802400L	DIODE	
D1911	MA24D5000B	DIODE	
D2100	B0JCME000037	DIODE	
D2101	B0JCME000037	DIODE	
D2301	B0JCME000037	DIODE	
D2302	B0ACCK000012	DIODE	
D2303	B0ACCK000012	DIODE	
D2305	B0ACCK000012	DIODE	
D2306	B0ACCK000012	DIODE	
D2307	B0JCME000037	DIODE	
D3001	MAZ81400ML	DIODE	
D3002	MAZ81400ML	DIODE	
D3003	MAZ81400ML	DIODE	
D3007	MAZ81400ML	DIODE	
D3008	MAZ81400ML	DIODE	
D3009	MAZ81400ML	DIODE	
D3013	MAZ81400ML	DIODE	
D3014	MAZ81400ML	DIODE	
D3015	MAZ81400ML	DIODE	
D3016	MAZ81400ML	DIODE	
D3017	MAZ81400ML	DIODE	
D3018	MAZ81400ML	DIODE	
D3021	MAZ81400ML	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D3022	MAZ81400ML	DIODE	
D3023	MAZ81400ML	DIODE	
D3024	MAZ81400ML	DIODE	
D3025	MAZ81400ML	DIODE	
D3026	MAZ81400ML	DIODE	
D3027	MAZ81400ML	DIODE	
D3028	MAZ81400ML	DIODE	
D3031	MAZ81400ML	DIODE	
D3032	MAZ81400ML	DIODE	
D3033	MAZ81400ML	DIODE	
D3200	MAZ81500ML	DIODE	
D3203	B0ACCK000012	DIODE	
D3204	B0ACCK000012	DIODE	
D3205	B0ACCK000012	DIODE	
D3206	B0ACCK000012	DIODE	
D3207	B0ACCK000012	DIODE	
D3208	B0ACCK000012	DIODE	
D3209	B0ACCK000012	DIODE	
D3210	B0ACCK000012	DIODE	
D3211	B0ACCK000012	DIODE	
D3215	B0ACCK000012	DIODE	
D3216	B0ACCK000012	DIODE	
D3217	B0ACCK000012	DIODE	
D3219	MA2J72900L	DIODE	
D3247	B0ACCK000005	DIODE	
D3248	B0ACCK000005	DIODE	
D3249	B0ACCK000005	DIODE	
D3250	B0ACCK000005	DIODE	
D3501	MAZ81400ML	DIODE	
D3502	MAZ81400ML	DIODE	
D3503	MAZ81400ML	DIODE	
D3504	MAZ81400ML	DIODE	
D3506	MAZ81400ML	DIODE	
D3507	MAZ81400ML	DIODE	
D3508	MAZ81400ML	DIODE	
D3509	MAZ81400ML	DIODE	
D3510	MAZ81400ML	DIODE	
D3511	MAZ81400ML	DIODE	
D3512	MAZ81400ML	DIODE	
D3513	MAZ81400ML	DIODE	
D4120	B0ACCK000012	DIODE	
D5002	B0JCME000037	DIODE	
D5003	B0JCME000037	DIODE	
D5004	B0JCME000037	DIODE	
D5005	B0JCME000037	DIODE	
D5023	MA2J72800L	DIODE	
D800	B0EBNT000022	DIODE	
D801	ERZV10V621CS	VARISTOR	△
D803	ERZV10V621CS	VARISTOR	△
D804	B0HAJL000003	DIODE	
D805	B0HASR000014	DIODE	
D807	B0JAME000058	DIODE	
D808	B0JCNE000004	DIODE	
D809	MAZ80680ML	DIODE	
D810	MAZ81100ML	DIODE	
D811	MAZ80390HL	DIODE	
D812	B0JCNG000003	DIODE	
D813	MAZ81800ML	DIODE	
D815	MAZ80750ML	DIODE	
D816	MAZ42400MF	DIODE	
D817	B0HAMM000122	DIODE	
D818	B0JBSL000026	DIODE	
D819	B0JBSL000026	DIODE	
D823	B0HAJL000003	DIODE	
D824	B0JCME000037	DIODE	
D832	B0JCME000037	DIODE	
D841	D4EAC6210002	VARISTOR	△
D844	RY24	DIODE	
D845	AU02A	DIODE	
D851	B0BA02800001	DIODE	
D852	B0BA02800001	DIODE	
D853	B0JCNG000003	DIODE	
D854	B0JANE000006	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D856	B0JCME000037	DIODE	
D860	B0JANE000006	DIODE	
D862	B0JCPG000005	DIODE	
D863	B0JCME000037	DIODE	
D864	MA2J11100L	DIODE	
D885	B0JCME000037	DIODE	
D886	B0HCMM000014	DIODE	
D887	B0HCMM000014	DIODE	
D888	B0BA02700008	ZENER DIODE	
D889	B0JANE000006	DIODE	
D890	B0JCME000037	DIODE	
D891	B0JCME000037	DIODE	
D892	B0JCPG000005	DIODE	
D893	B0BA05600010	DIODE	
D894	B0BC01000044	DIODE	
	INTEGRATED CIRCUITS		
IC1102	TVR4GAS789	EEPROM IC	
IC1803	C0EBF0000354	IC, RESET	
IC1804	C0BCYE000001	IC	
IC1807	C0DBEGE000002	IC	
IC1808	C0DBAZG000048	IC	
IC1809	C0DBAYY000428	IC	
IC1810	C0DBEYY000084	IC	
IC1811	C0DBEYG000002	IC REGULATOR	
IC1812	C0DBEGE000002	IC	
IC2000	C1AB00002916	IC	
IC2350	C1BB00000947	IC	
IC4001	TVR4G54-5	IC	
IC4002	C3ABRY0000038	IC	
IC4003	C3ABRY0000038	IC	
IC4004	C0DBEFH000002	IC	
IC5001	TVR4GAS797	IC	
IC5002	TVR4GAS798	IC	
IC5003	C3EBDC000067	IC	
IC5004	C3EBDC000067	IC	
IC800	C0DBBZG000004	IC	
IC801	C5HAZZZ000011	IC	△
IC805	AN1431T-TA	IC	
IC851	C0DAAZH000020	IC, POWER SUPPLY	
IC852	C0DAAZH000020	IC, POWER SUPPLY	
IC853	C0DBAZG000048	IC	
IC855	C0DAAZG000014	IC, POWER SUPPLY	
IC862	C0DAAZG000014	IC, POWER SUPPLY	
	COILS		
L1185	J0JHC0000078	BEAD CORE	
L1186	J0JHC0000078	BEAD CORE	
L1187	J0JHC0000078	BEAD CORE	
L1188	J0JHC0000078	BEAD CORE	
L1189	J0JHC0000078	BEAD CORE	
L1805	J0JHC0000078	BEAD CORE	
L1806	J0JHC0000078	BEAD CORE	
L1811	J0JHC0000075	BEAD COIL	
L1812	G1C100MA0077	COIL	
L1813	J0JKC0000007	BEAD CORE	
L1815	G0A100ZA0041	COIL	
L1816	J0JKC0000007	BEAD CORE	
L1830	G1C100MA0077	COIL	
L1832	ELJPA2R2MFB	CHIP INDUCTOR	
L1834	ELJPA2R2MFB	CHIP INDUCTOR	
L1894	J0JHC0000075	BEAD COIL	
L1910	ELLATV6R8N	COIL	
L1920	J0JHC0000075	BEAD COIL	
L2000	J0JHC0000078	BEAD CORE	
L2001	G1C330MA0291	COIL	
L2002	G1C330MA0291	COIL	
L2004	J0JHC0000078	BEAD CORE	
L2005	G1C330MA0291	COIL	
L2006	J0JJC0000015	COIL	
L2007	G1C330MA0291	COIL	
L2008	J0JHC0000034	BEAD CORE	
L2009	J0JHC0000034	BEAD CORE	
L2010	J0JHC0000034	BEAD CORE	

Ref. No.	Part No.	Part Name & Description	Remarks
L2011	J0JHC0000034	BEAD CORE	
L2100	ELJFC2R2KFB	CHIP INDUCTOR	
L2101	ELJFC2R2KFB	CHIP INDUCTOR	
L2102	ELJFC2R2KFB	CHIP INDUCTOR	
L2103	ELJFC2R2KFB	CHIP INDUCTOR	
L2350	G0C100K00008	COIL	
L3800	J0JHC0000078	BEAD CORE	
L3802	J0JCC0000241	BEAD CORE	
L3803	J0JCC0000241	BEAD CORE	
L4000	J0JDC0000002	BEAD CORE	
L4001	J0JDC0000002	BEAD CORE	
L4002	J0JDC0000002	BEAD CORE	
L4003	J0JDC0000002	BEAD CORE	
L4004	J0JHC0000075	BEAD COIL	
L4005	J0JDC0000002	BEAD CORE	
L4006	J0JHC0000075	BEAD COIL	
L4007	J0JDC0000002	BEAD CORE	
L4008	J0JDC0000002	BEAD CORE	
L4009	J0JDC0000002	BEAD CORE	
L4010	J0JDC0000002	BEAD CORE	
L4011	J0JHC0000075	BEAD COIL	
L4012	J0JHC0000075	BEAD COIL	
L4013	J0JHC0000075	BEAD COIL	
L4014	J0JDC0000002	BEAD CORE	
L4015	J0JDC0000002	BEAD CORE	
L4016	ELJFA6R8KFB	CHIP INDUCTOR	
L4017	J0JCC0000241	BEAD CORE	
L4018	J0JCC0000241	BEAD CORE	
L4019	J0JHC0000075	BEAD COIL	
L4020	J0JHC0000075	BEAD COIL	
L4023	J0JHC0000075	BEAD COIL	
L4024	J0JHC0000075	BEAD COIL	
L4025	J0JDC0000002	BEAD CORE	
L4026	J0JCC0000268	BEAD CORE	
L4027	J0JHC0000075	BEAD COIL	
L4028	J0JHC0000075	BEAD COIL	
L4029	J0JCC0000268	BEAD CORE	
L4030	J0JCC0000268	BEAD CORE	
L4031	J0JHC0000075	BEAD COIL	
L4440	J0JCC0000268	BEAD CORE	
L4441	J0JCC0000268	BEAD CORE	
L831	EXCELDR35V	CORE	
L832	J0JKA0000038	BEAD CORE	
L836	G0C101K00023	COIL	
L837	J0JKA0000038	BEAD CORE	
L839	TLPF095	CHOKE COIL	
L840	EXCELDR35V	CORE	
L843	EXCELDR35V	CORE	
L844	G0C101K00041	COIL	
L865	G0A220ZA0033	COIL	
L867	J0JKB0000034	EMI FILTER	
L868	EXCELDR35V	CORE	
L869	G0A101ZA0034	COIL	
L870	G0A101ZA0034	COIL	
L871	TLPF095	CHOKE COIL	
L872	J0JKB0000034	EMI FILTER	
L880	J0JKA0000024	EMI FILTER	
L881	J0JKA0000024	EMI FILTER	
	TRANSISTORS		
Q1002	2SA207700L	TRANSISTOR	
Q1004	2SA207700L	TRANSISTOR	
Q1006	2SC584500L	TRANSISTOR	
Q1007	2SC584500L	TRANSISTOR	
Q1217	2SA207700L	TRANSISTOR	
Q1218	2SC584500L	TRANSISTOR	
Q1803	2SC584500L	TRANSISTOR	
Q1804	2SA207700L	TRANSISTOR	
Q1805	2SA207700L	TRANSISTOR	
Q1806	2SC584500L	TRANSISTOR	
Q1807	B1DEED000002	TRANSISTORE	
Q1812	2SD0601A0L	TRANSISTOR	
Q1813	2SD0601A0L	TRANSISTOR	
Q1932	2SD0601A0L	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q2033	B1MBACA00008	TRANSISTOR	
Q2301	2SC584500L	TRANSISTOR	
Q2302	2SC584500L	TRANSISTOR	
Q2303	2SA207700L	TRANSISTOR	
Q2310	2SC584500L	TRANSISTOR	
Q2311	2SC584500L	TRANSISTOR	
Q3001	2SC584500L	TRANSISTOR	
Q3002	2SA207700L	TRANSISTOR	
Q3003	2SC584500L	TRANSISTOR	
Q3007	2SA207700L	TRANSISTOR	
Q3062	2SC584500L	TRANSISTOR	
Q3063	2SA207700L	TRANSISTOR	
Q3064	2SC584500L	TRANSISTOR	
Q3065	2SA207700L	TRANSISTOR	
Q3066	2SC584500L	TRANSISTOR	
Q3067	2SC584500L	TRANSISTOR	
Q3072	2SA207700L	TRANSISTOR	
Q3073	2SA207700L	TRANSISTOR	
Q3200	2SC584500L	TRANSISTOR	
Q3201	2SC584500L	TRANSISTOR	
Q3202	2SC584500L	TRANSISTOR	
Q3203	2SC584500L	TRANSISTOR	
Q3204	2SA207700L	TRANSISTOR	
Q3205	2SC584500L	TRANSISTOR	
Q3801	2SA207700L	TRANSISTOR	
Q3806	2SC584500L	TRANSISTOR	
Q3807	2SC584500L	TRANSISTOR	
Q3827	B1CHRE000003	TRANSISTOR	
Q3832	2SD0601A0L	TRANSISTOR	
Q4020	2SC584500L	TRANSISTOR	
Q4021	2SC584500L	TRANSISTOR	
Q4022	2SC584500L	TRANSISTOR	
Q4119	2SC584500L	TRANSISTOR	
Q4501	B1CBHD000002	TRANSISTOR	
Q5003	2SC584500L	TRANSISTOR	
Q5004	2SC584500L	TRANSISTOR	
Q5019	2SC584500L	TRANSISTOR	
Q5020	2SC584500L	TRANSISTOR	
Q5021	2SC584500L	TRANSISTOR	
Q801	B1DFBR000008	TRANSISTOR	
Q802	2SD0601A0L	TRANSISTOR	
Q803	2SD0601A0L	TRANSISTOR	
Q804	2SD0601A0L	TRANSISTOR	
Q805	2SD0601A0L	TRANSISTOR	
Q806	2SD0601A0L	TRANSISTOR	
Q807	B1BACG000035	TRANSISTOR	
Q808	B1BACD000014	TRANSISTOR	
Q809	2SD0601A0L	TRANSISTOR	
Q810	2SD0601A0L	TRANSISTOR	
Q811	2SD0601A0L	TRANSISTOR	
Q814	B1DEHR000007	TRANSISTOR	
Q843	B1CGRD000002	TRANSISTOR	
Q845	2SD0601A0L	TRANSISTOR	
Q847	2SD0601A0L	TRANSISTOR	
Q848	2SD0601A0L	TRANSISTOR	
Q849	2SD0601A0L	TRANSISTOR	
Q881	2SD0601A0L	TRANSISTOR	
Q892	UNR221900L	TRANSISTOR	
	RESISTORS		
R1002	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1003	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R1006	ERJ3GEYJ511	M 510OHM, J, 1/16W	
R1008	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1010	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1015	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1017	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1019	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1020	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1022	ERJ3GEYJ152	M 1.5KOHM, J, 1/16W	
R1024	ERJ3GEY0R00	M 0OHM, J, 1/16W	
R1025	ERJ3GEY0R00	M 0OHM, J, 1/16W	
R1026	ERJ3GEYJ204	M 200KOHM, J, 1/16W	
R1028	ERJ3GEYJ471	M 470OHM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1029	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1167	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1171	ERJ3GEYJ220	M 22OHM,J,1/16W	
R1172	ERJ3GEYJ220	M 22OHM,J,1/16W	
R1173	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1176	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1177	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1183	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1240	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1241	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1242	ERJ3GEYJ223	M 22KOHM,J,1/16W	
R1243	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1248	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1298	ERJ3GEYJ101	M 100OHM,J,1/16W	
R1729	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1802	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1812	ERJ3GEYJ333	M 33KOHM,J,1/16W	
R1813	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1819	ERJ3EKF2612	F 26.1KOHM,J,1/10W	
R1820	ERJ3EKF1542	F 15.4KOHM,J,1/10W	
R1823	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1824	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1825	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1826	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1827	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1828	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1829	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1830	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1831	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1832	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R1840	ERJ3EKF6801	F 6.8KOHM,J,1/10W	
R1841	ERJ3EKF1802	M 18KOHM,F,1/16W	
R1842	ERJ3GEYJ105	M 1MOHM,J,1/16W	
R1843	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1847	D0GD103JA017	F 10KOHM,J,1/16W	
R1848	ERJ3EKF7152	M 71.5KOHM,J,1/10W	
R1849	ERJ3EKF9761	M 9.76KOHM,F,1/16W	
R1850	D0GD203JA017	F 20KOHM,J,1/10W	
R1851	ERJ3RBD122	F 1.2KOHM,J,1/5W	
R1853	ERJ3RBD563	F 56KOHM,J,1/5W	
R1855	ERJ3RBD103	F 10KOHM,J,1/10W	
R1856	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1859	ERJ3EKF6340	M 634OHM,F,1/16W	
R1860	ERJ3EKF1001	M 1KOHM,F,1/16W	
R1861	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1862	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1863	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1864	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1877	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1878	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1879	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1880	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1884	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1885	ERJ3GEY0R00	M 0OHM,J,1/16W	
R1889	ERJ6GEYJ2R2	M 2.2OHM,J,1/10W	
R1910	ERJ3GEYJ563	M 56KOHM,J,1/16W	
R1911	ERJ3EKF1201	M 1.2KOHM,F,1/16W	
R1912	ERJ3EKF5102	F 51KOHM,J,1/10W	
R1913	ERJ3EKF1302	M 13KOHM,F,1/16W	
R1914	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1921	ERJ3EKF2002	F 200OHM,J,1/10W	
R1922	ERJ3EKF3002	F 300OHM,J,1/10W	
R1923	ERJ3EKF1600	F 160OHM,J,1/10W	
R1934	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R1935	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R1936	ERJ3GEYJ203	M 20KOHM,J,1/16W	
R1949	ERJ3GEYJ121	M 120OHM,J,1/16W	
R1950	ERJ3GEYJ221	M 220OHM,J,1/16W	
R1951	ERJ3EKF3002	M 30KOHM,J,1/10W	
R1952	ERJ3EKF1102	M 11KOHM,F,1/16W	
R1953	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2000	ERJ3GEYJ471	M 470OHM,J,1/16W	
R2001	ERJ3GEYJ104	M 100KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2002	ERJ3EKF2202	M 22KOHM,F,1/16W	
R2003	ERJ3EKF2202	M 22KOHM,F,1/16W	
R2004	ERJ3EKF2202	M 22KOHM,F,1/16W	
R2005	D0GB104JA041	M 100KOHM,J,1/16W	
R2006	D0GB104JA041	M 100KOHM,J,1/16W	
R2007	D0GD221JA017	F 220OHM,J,1/10W	
R2008	D0GB103JA041	M 10KOHM,J,1/16W	
R2009	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R2010	ERJ3GEYJ471	M 470OHM,J,1/16W	
R2011	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2099	ERJ6GEY0R00	M 0OHM,J,1/10W	
R2102	ERJ6GEY0R00	M 0OHM,J,1/10W	
R2103	ERJ3GEYJ123	M 12KOHM,J,1/16W	
R2104	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2105	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2106	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R2107	ERJ3GEYJ123	M 12KOHM,J,1/16W	
R2108	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2109	ERJ3GEYJ101	M 100OHM,J,1/16W	
R2110	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R2300	ERJ6GEY0R00	M 0OHM,J,1/10W	
R2301	D0GB102JA041	M 1KOHM,J,1/10W	
R2302	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R2303	D0GB103JA041	M 10KOHM,J,1/10W	
R2308	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R2309	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2310	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2311	ERJ3GEYJ153	M 15KOHM,J,1/16W	
R2313	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2314	ERJ3GEYJ103	M 10KOHM,J,1/16W	
R2315	ERJ3GEYJ102	M 1KOHM,J,1/16W	
R2318	ERJ8GEYJ272	M 2.7KOHM,J,1/8W	
R2324	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2325	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2351	ERJ3GEYJ681	M 680OHM,J,1/16W	
R2352	ERJ3GEYJ681	M 680OHM,J,1/16W	
R2353	D0GB101JA041	M 100OHM,J,1/10W	
R2354	D0GB101JA041	M 100OHM,J,1/10W	
R2355	ERJ3GEYJ153	M 15KOHM,J,1/16W	
R2356	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2357	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R2358	ERJ3GEYJ153	M 15KOHM,J,1/16W	
R2359	ERJ3GEYJ153	M 15KOHM,J,1/16W	
R2360	ERJ8GEYJ151	M 150OHM,J,1/8W	
R2361	ERJ8GEYJ151	M 150OHM,J,1/8W	
R2510	ERJ3GEY0R00	M 0OHM,J,1/16W	
R2511	ERJ3EKF6801	F 6.8KOHM,J,1/10W	
R2512	ERJ3EKF1202	M 12KOHM,F,1/16W	
R2513	ERJ3EKF2202	M 22KOHM,F,1/16W	
R2514	ERJ3EKF6802	M 68KOHM,F,1/16W	
R3001	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3002	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3005	ERJ6ENF75R0	M 75OHM, 1/10W	
R3006	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3007	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3010	ERJ6ENF75R0	M 75OHM, 1/10W	
R3011	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3012	ERJ3GEYJ184	M 180KOHM,J,1/16W	
R3013	ERJ6ENF75R0	M 75OHM, 1/10W	
R3014	ERJ6ENF75R0	M 75OHM, 1/10W	
R3015	ERJ6ENF75R0	M 75OHM, 1/10W	
R3017	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3019	ERJ6ENF75R0	M 75OHM, 1/10W	
R3020	ERJ3GEYJ431	M 430OHM,J,1/16W	
R3021	ERJ3GEYJ431	M 430OHM,J,1/16W	
R3022	D0GD331JA017	F 330OHM,J,1/10W	
R3023	D0GD471JA017	F 470OHM,J,1/10W	
R3024	D0GD271JA017	F 270OHM,J,1/10W	
R3026	ERJ3GEYJ473	M 47KOHM,J,1/16W	
R3027	ERJ3GEYJ303	M 30KOHM,J,1/16W	
R3028	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3029	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R3034	ERJ3GEYJ104	M 100KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3039	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R3040	ERJ3GEYJ274	M 270KOHM, J, 1/16W	
R3041	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3042	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3043	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R3064	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3065	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3097	ERJ3GEYJ183	M 18KOHM, J, 1/16W	
R3107	ERJ3GEYJ132	M 1.3KOHM, J, 1/16W	
R3108	ERJ3GEYJ682	M 6.8KOHM, J, 1/16W	
R3110	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3111	ERJ3GEYJ682	M 6.8KOHM, J, 1/16W	
R3112	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3113	D0GB751JA008	F 750OHM, J, 1/10W	
R3115	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R3116	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R3117	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R3118	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3119	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R3120	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3129	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3130	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3137	ERJ3GEYJ183	M 18KOHM, J, 1/16W	
R3138	D0GB751JA008	F 750OHM, J, 1/10W	
R3139	ERJ3GEYJ132	M 1.3KOHM, J, 1/16W	
R3200	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3201	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3203	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3204	ERJ14YJ222U	F 2.2KOHM, J, 1/10W	
R3205	ERJ14YJ222U	F 2.2KOHM, J, 1/10W	
R3206	ERJ3GEYJ223	M 22KOHM, J, 1/16W	
R3207	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	
R3208	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3209	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3210	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	
R3215	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3218	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3221	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3222	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3223	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R3224	ERJ3GEYJ123	M 12KOHM, J, 1/16W	
R3225	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3226	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3227	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3229	ERJ3GEYJ153	M 15KOHM, J, 1/16W	
R3230	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3231	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3232	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3233	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3234	ERJ3GEYJ222	M 2.2KOHM, J, 1/16W	
R3235	ERJ3GEYJ152	M 1.5KOHM, J, 1/16W	
R3236	ERJ3GEYJ223	M 22KOHM, J, 1/16W	
R3237	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R3240	ERJ6ENF75R0	M 75OHM, 1/10W	
R3241	ERJ6ENF75R0	M 75OHM, 1/10W	
R3242	ERJ6ENF75R0	M 75OHM, 1/10W	
R3243	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R3244	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R3245	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R3246	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3247	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3248	D0GD472JA017	F 4.7KOHM, J, 1/10W	
R3249	D0GD472JA017	F 4.7KOHM, J, 1/10W	
R3501	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3502	ERJ6ENF75R0	M 75OHM, 1/10W	
R3503	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3504	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3505	ERJ6ENF75R0	M 75OHM, 1/10W	
R3507	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3508	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3509	ERJ6ENF75R0	M 75OHM, 1/10W	
R3510	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3511	ERJ6GEY0R00	M 0OHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3512	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3513	D0GD184JA017	F 180KOHM, J, 1/10W	
R3514	D0GD184JA017	F 180KOHM, J, 1/10W	
R3516	ERJ3GEY0R00	M 0OHM, J, 1/16W	
R3517	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3800	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R3870	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3873	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3879	ERJ3GEYJ221	M 220OHM, J, 1/16W	
R3882	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R3900	ERJ3GEYJ561	M 560OHM, J, 1/16W	
R3902	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R3911	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3912	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	
R3914	ERJ3GEYJ332	M 3.3KOHM, J, 1/16W	
R3915	ERJ3GEYJ122	M 1.2KOHM, J, 1/16W	
R3916	ERJ3GEYJ471	M 470OHM, J, 1/16W	
R3925	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3926	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3930	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R3933	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R4001	ERJ3GEYJ273	M 27KOHM, J, 1/16W	
R4003	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R4008	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4009	ERJ3GEYJ360	M 36OHM, J, 1/16W	
R4010	ERJ3GEYJ360	M 36OHM, J, 1/16W	
R4014	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4016	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R4017	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R4019	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R4020	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R4021	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R4022	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R4023	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4024	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4025	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4026	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4027	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4028	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4029	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4030	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4031	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4032	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4033	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4037	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R4039	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4040	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4041	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4042	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4043	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4044	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4045	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4046	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4047	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4048	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4049	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4050	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4051	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R4052	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R4054	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R4055	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R4056	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R4058	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4059	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R4060	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R4061	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R4062	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R4066	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4067	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4068	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4069	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4070	ERJ3GEYJ105	M 1MOHM, J, 1/16W	
R4071	ERJ3GEYJ105	M 1MOHM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R4445	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4446	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4447	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4448	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4449	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4450	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4451	ERJ3GEYJ181	M 180OHM, J, 1/16W	
R4470	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4471	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4472	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4473	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4474	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4475	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4476	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4477	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4478	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4479	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4480	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4481	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4482	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4483	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4484	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4485	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4486	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4487	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4488	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4489	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4490	ERJ2GEJ750X	F 75OHM, J, 1/10W	
R4491	ERJ3GEYJ181	M 180OHM, J, 1/16W	
R4502	ERJ3GEYJ222	M 2.2KOHM, J, 1/16W	
R4503	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R5003	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R5004	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R5005	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R5006	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R5007	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R5009	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R5010	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R5023	ERJ2GE0R00X	F 0OHM, J, 1/10W	
R5024	ERJ3GEYJ274	M 270KOHM, J, 1/16W	
R5026	ERJ2GE0R00X	F 0OHM, J, 1/10W	
R5027	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R5028	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R5029	ERJ3GEYJ220	M 22OHM, J, 1/16W	
R5092	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R5093	ERJ3EKF2702	M 27KOHM, F, 1/16W	
R5094	ERJ3GEYJ221	M 220OHM, J, 1/16W	
R5095	ERJ3GEYJ224	M 220KOHM, J, 1/16W	
R5096	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R5097	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5098	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R5099	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R5100	ERJ3GEYJ225	F 2.2MOHM, J, 1/10W	
R5102	ERJ3GEYJ223	M 22KOHM, J, 1/16W	
R5120	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5121	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5122	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R5124	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5125	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5126	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R5128	ERJ2GE0R00X	F 0OHM, J, 1/10W	
R5129	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R5134	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R800	ERJ6GEYJ514	M 510KOHM, J, 1/10W	
R801	ERC12ZGK185	S 1.8KOHM, K, 1/2W	⚠
R802	ERJ6GEYJ334	M 330KOHM, J, 1/10W	
R803	ERJ6GEYJ334	M 330KOHM, J, 1/10W	
R804	ERJ6GEYJ334	M 330KOHM, J, 1/10W	
R805	ERJ6GEYJ334	M 330KOHM, J, 1/10W	
R806	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R807	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R808	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R809	ERDS2TJ330	C 33OHM, J, 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R810	ERDS2TJ121	C 120OHM, J, 1/4W	
R812	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R814	ERJ6GEYJ624	M 620KOHM, J, 1/10W	
R815	ERJ6GEYJ624	M 620KOHM, J, 1/10W	
R816	ERJ6GEYJ624	M 620KOHM, J, 1/10W	
R817	ERJ6GEYJ624	M 620KOHM, J, 1/10W	
R818	ERJ6ENF7681	M 7.68KOHM, 1/10W	
R819	ERDS2TJ101	C 100OHM, J, 1/4W	
R820	ERG2SJW330E	M 33OHM, J, 2W	
R821	ERG2SJW330E	M 33OHM, J, 2W	
R822	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R823	D0D5R10KA007	W 0.1OHM, K, 5W	
R824	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R825	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R826	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R828	ERJ6GEYJ154	M 150KOHM, J, 1/10W	
R829	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
R830	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R831	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R832	ERJ6GEYJ564	M 560KOHM, J, 1/10W	
R833	ERJ6GEYJ564	M 560KOHM, J, 1/10W	
R834	ERJ6GEYJ105	M 1MOHM, J, 1/10W	
R835	ERGLSJ223E	M 2.2KOHM, J, 1W	
R836	ERGLSJ223E	M 2.2KOHM, J, 1W	
R837	ERGLSJ103E	M 2.2KOHM, J, 1W	
R838	ERJ6GEYJ514	M 510KOHM, J, 1/10W	
R839	ERJ6GEYJ474	M 470KOHM, J, 1/10W	
R840	ERJ6GEYJ154	M 150KOHM, J, 1/10W	
R841	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R842	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
R843	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R844	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R845	ERJ12YJ472U	M 4.7KOHM, J, 1/2W	
R846	ERDS1TJ302	C 3KOHM, J, 1/2W	
R847	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R848	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R849	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R850	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R851	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R852	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
R853	ERDS1TJ2R2	C 2.2OHM, J, 1/2W	
R854	ER0S2CHF8200	M 82OHM, F, 1/4W	
R855	D0MA47MKA005	C 47MOHM, J, 3W	
R856	ERDS1TJ105	C 1MOHM, J, 1/2W	
R857	ERDS1TJ151	C 150OHM, J, 1/2W	
R858	ERQ14AJ220P	F 22OHM, J, 1/4W	
R859	ERDS2TJ470	C 47OHM, J, 1/4W	
R860	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R861	ERJ6GEYJ112	M 1.1KOHM, J, 1/10W	
R862	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R863	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R864	ERJ6ENF6651	M6.65KOHM, 1/10W	
R865	ERJ3EKF2702	M 27KOHM, F, 1/16W	
R866	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
R867	ERJ6ENF1241	M 1.24KOHM, 1/10W	
R868	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R869	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R870	ERJ3EKF6201	F 6.2KOHM, J, 1/10W	
R871	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R872	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R873	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R874	D0AW825JA001	C 8.2MOHM,	
R875	ERJ3EKF1331	M1.33KOHM, F, 1/16W	
R876	ERJ6ENF6491	M6.49KOHM, 1/10W	
R877	ERJ6ENF1201	M 1.2KOHM, 1/10W	
R880	D1F5100E0002	WIRE WOUND RESISTOR	⚠
R881	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R882	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	
R883	ERJ6GEYJ273	M 27KOHM, J, 1/10W	
R884	ERJ6GEYJ333	M 33KOHM, J, 1/10W	
R885	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R887	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R888	ERJ3EKF1102	M 11KOHM, F, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R889	ERJ3EKF1002	M 10KOHM,F,1/16W	
R890	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R891	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R893	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R894	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R895	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R896	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R897	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R898	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R899	ERJ3EKF1151	F 1.15KOHM,J, 1/10W	
R903	ERJ6ENF9531	M9.53KOHM, 1/10W	
R909	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R912	ERJ3EKF3091	M3.09KOHM,F,1/16W	
R913	ERJ6ENF8200	M 820OHM, 1/10W	
R920	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R923	ERJ6GEYJ753	M 75KOHM,J,1/10W	
R924	ERJ6GEYJ753	M 75KOHM,J,1/10W	
	TRANSFORMERS		
T801	ETS35LZ156AD	SWITCHING TRANS	△
T802	ETS32CZ119AD	SWITCHING TRANS	△
	OTHERS		
A11	K1KA14AA0178	CONNECTOR	
A12	K1KA18AA0178	CONNECTOR	
A16	K1KA04AA0190	CONNECTOR	
A18	K1KB51A00001	CONNECTOR	
A19	K1FB115A0025	CONNECTOR	
A3	K1KA04BA0055	CONNECTOR	
A7	K1KA15AA0194	CONNECTOR	
A8A	K1KA08BA0055	CONNECTOR	
A9	K1KA08AA0714	CONNECTOR	
F841	K5D502BNA005	FUSE	△
FL4000	EXC24CE900U	NOISE FILTER	
FL4001	EXC24CE900U	NOISE FILTER	
FL4002	EXC24CE900U	NOISE FILTER	
FL4003	EXC24CE900U	NOISE FILTER	
FL4004	EXC24CE900U	NOISE FILTER	
FL4005	EXC24CE900U	NOISE FILTER	
FL4006	EXC24CE900U	NOISE FILTER	
FL4007	EXC24CE900U	NOISE FILTER	
FL4008	EXC24CE900U	NOISE FILTER	
FL4009	EXC24CE900U	NOISE FILTER	
FL4010	EXC24CE900U	NOISE FILTER	
FL4011	EXC24CE900U	NOISE FILTER	
FL5001	FLJ1A1050020	CERAMIC CAPACITOR	
FL5002	FLJ1A1050020	CERAMIC CAPACITOR	
G3	K1KA02AA0180	CONNECTOR	
G4	K1KA15AA0194	CONNECTOR	
JA1	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JA2	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JA29	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JA3	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JA6	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JA8	ERJ8GEY0R00	M 0OHM,J, 1/8W	
JK3001	K4AK07A00002	AV TERMINAL	
JK3003	K4AK04A00001	AV TERMINAL	
JK3004A	K4AK04A00002	AV TERMINAL	
JK3005A	K4AK04A00002	AV TERMINAL	
JK3007	K4AK06A00002	AV TERMINAL	
JK3501	K4AK18B00004	AV TERMINAL	
JK5001	K1FY119D0003	HDMI TERMINAL	
JK5002	K1FY119D0003	HDMI TERMINAL	
JS3501	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3502	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3503	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1801	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1829	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1836	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1837	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1839	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1843	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1845	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1847	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1853	ERJ6GEY0R00	M 0OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
JSA1854	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1855	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1920	ERJ3GEY0R00	M 0OHM,J,1/16W	
JSA1921	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA1922	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA2010	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA2011	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA2012	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA2013	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA2304	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA240	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA241	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA242	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA243	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA250	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA251	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA258	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSA259	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP808	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP814	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP820	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP821	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP822	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP823	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP824	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP825	ERJ6GEY0R00	M 0OHM,J,1/10W	
JSP854	ERJ6GEY0R00	M 0OHM,J,1/10W	
K2	K1KA03BA0055	CONNECTOR	
LF801	GOB153H00003	CHOKE COIL	
LF803	GOB153H00003	CHOKE COIL	
P1	K1KA02B00295	CONNECTOR	
P2	K1KA10AA0194	CONNECTOR	
P3	K1KA14AA0178	CONNECTOR	
P4	K1KA18AA0178	CONNECTOR	
PC801	B3PAA0000363	PHOTO COUPLER	△
PC802	B3PAA0000363	PHOTO COUPLER	△
RL801	K6B1CDA00028	RELAY	△
RM1001	PNA4701M06TV	IC PHOTO DETECTOR	
SN1001	B3L000000032	PHOTO DETECTOR	
SW1	K1KA02A00720	CONNECTOR	
SW2	K1KA02A00676	CONNECTOR	
SW2510	EVQ11G05R	SWITCH	
SW2511	EVQ11G05R	SWITCH	
SW2512	EVQ11G05R	SWITCH	
SW2513	EVQ11G05R	SWITCH	
SW2514	EVQ11G05R	SWITCH	
SW841	ESB92DA1B	SWITCH	△
TU101	ENG39E04GRF	TUNER	△
V1	K1KA08BA0061	CONNECTOR	
X4001	H0J270500126	CRYSTAL OSC	