

Service Manual

LCD TV

Model No. **TX-42LZ80X**
TX-42LZ80Y

Chassis: **LH81**
 Destination: **MIDDLE EAST**
IRAN



Specifications

Power Source	AC AUTO 110 - 240V, 50/60 Hz (TX-42LZ80X) AC SINGLE 220 - 240V, 50/60 Hz (TX-42LZ80Y)
Power Consumption	
Average use	206 W
Standby condition	1.0 W
Display panel	
Aspect Ratio	16:9
Visible screen size	106 cm (diagonal)
(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 kHz 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 / 4.5MHz)	
	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	

- 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)

VHF BAND

- 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 (U.S.A.)

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 (U.S.A.)

CATV

- S1 - S20 (OSCAR)
 1 - 125 (U.S.A.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 VIDEO	RCA PIN Type × 2	0.5 V [rms]
		RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
AV2 Input	AUDIO L-R VIDEO	RCA PIN Type × 2	0.5 V [rms]
		RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
		Y	1.0 V [p-p] (including synchronization)
AV3 Input	COMPONENT	P _B /C _B , P _R /C _R	± 0.35 V [p-p]
	AUDIO L-R VIDEO	RCA PIN Type × 2	0.5 V [rms]
		RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
Others	S-VIDEO	Mini DIN 4-pin	Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω)
	HDMI 1/2 Input	TYPE A Connectors	
	Audio Input for HDMI1	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 Input	AUDIO L-R VIDEO	RCA PIN Type × 2	0.5 V [rms] (High impedance)
		RCA PIN Type × 1	1.0 V [p-p] (75 Ω)
Dimension (W x H x D)	1027 mm × 710 mm × 295 mm (With TV Stand)		
	1027 mm × 668 mm × 110 mm (TV only)		

Mass

23 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.

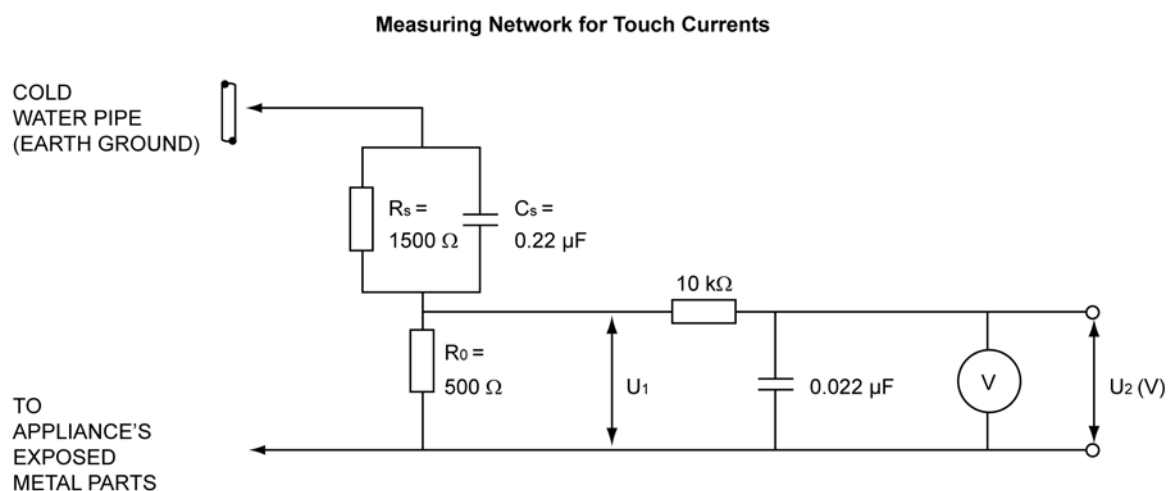


Figure 1

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 Δ 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).

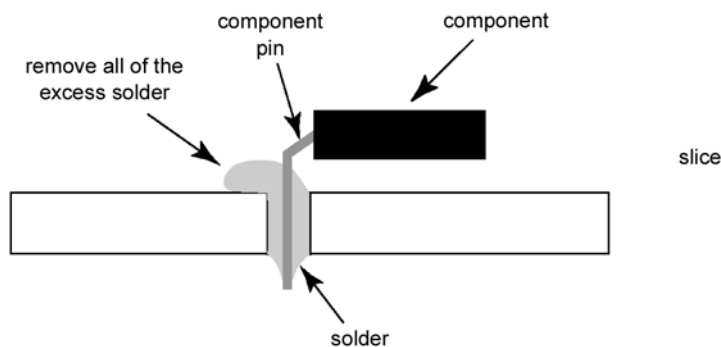


Figure 2

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.

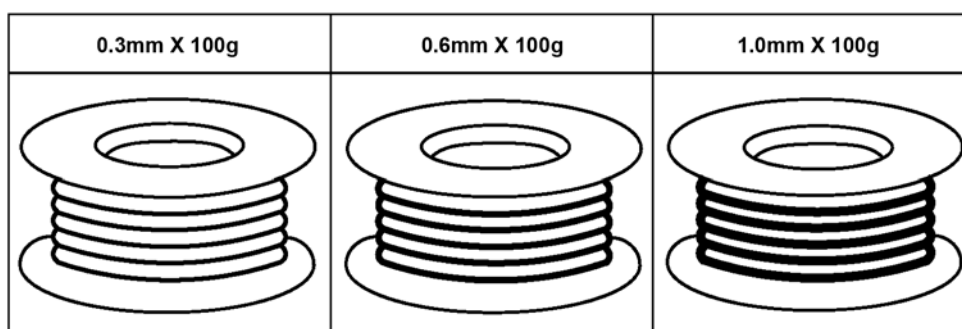


Figure 3

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.

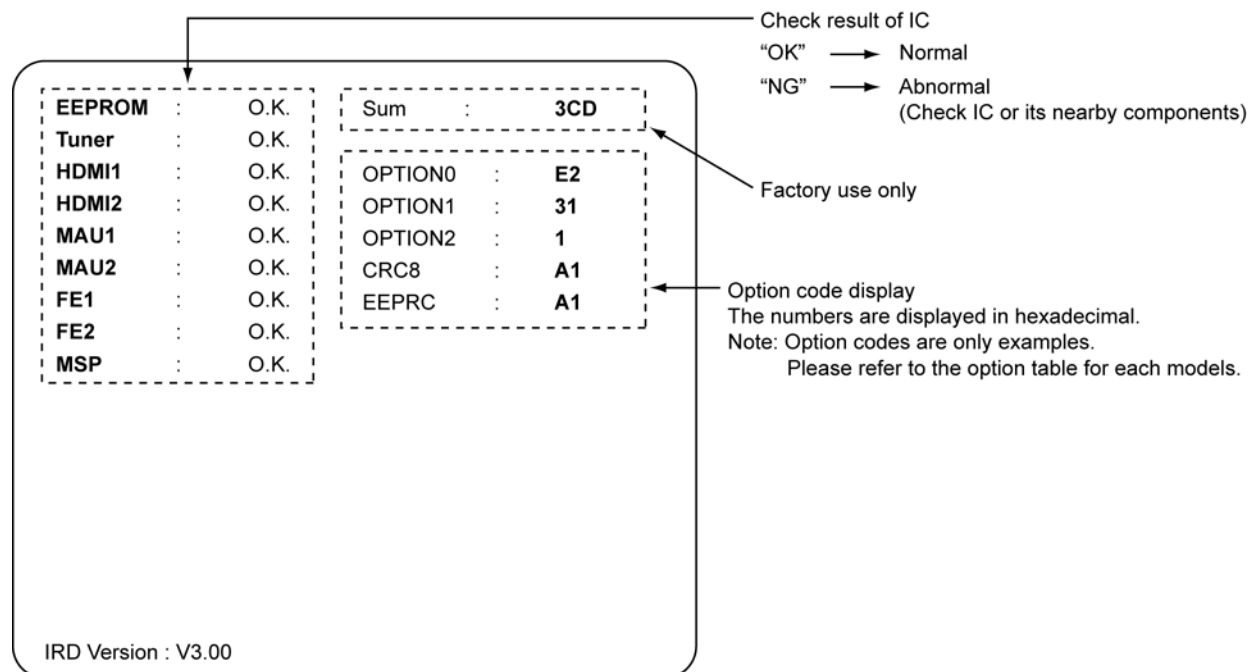


Figure 4

4.2. Power LED Blinking Timing Chart

1. Subject
Information of LED blinking timing chart.
2. Contents

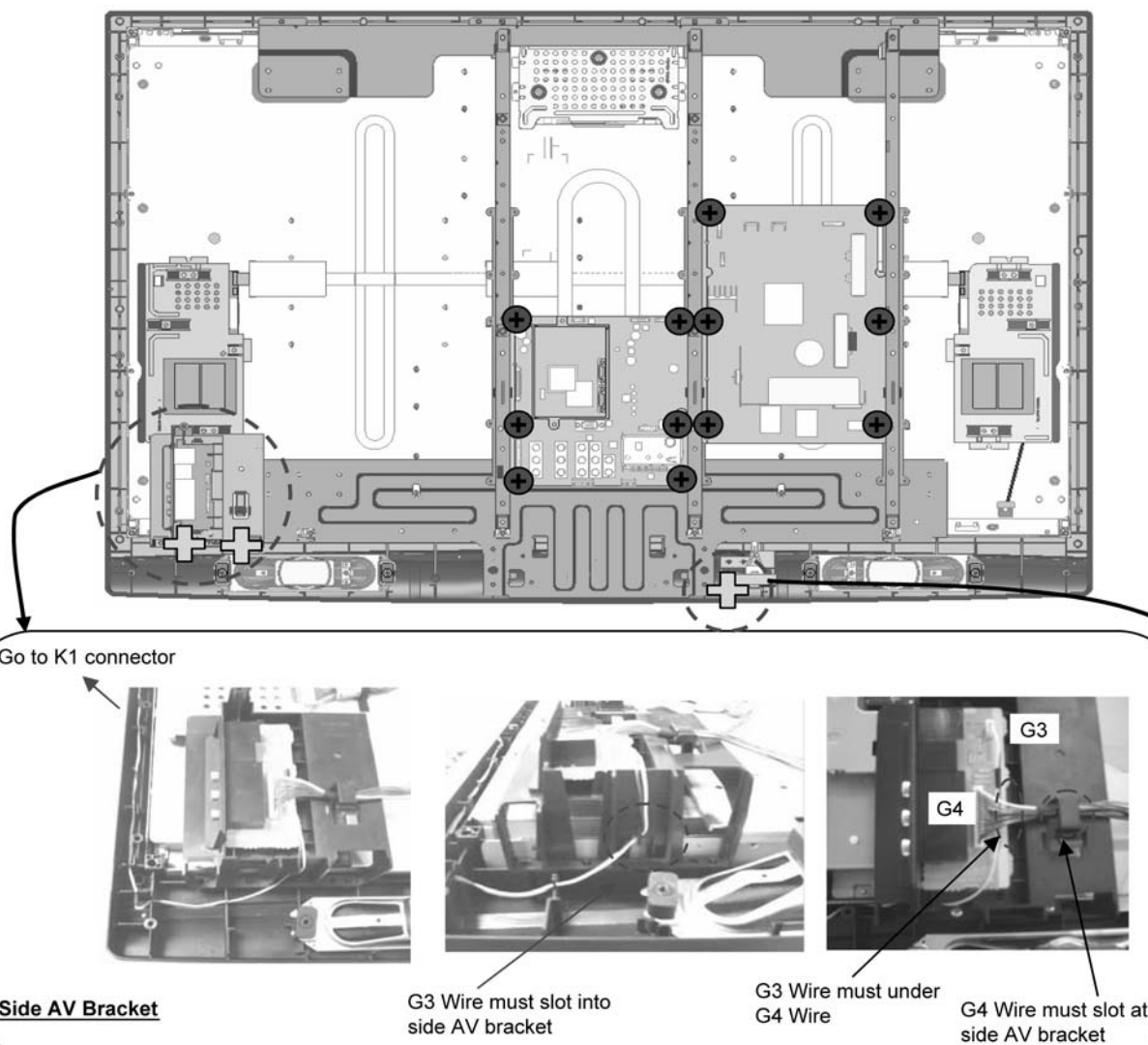
When an abnormality has occurred in the unit, the protection circuit operates and resets to standby mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

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

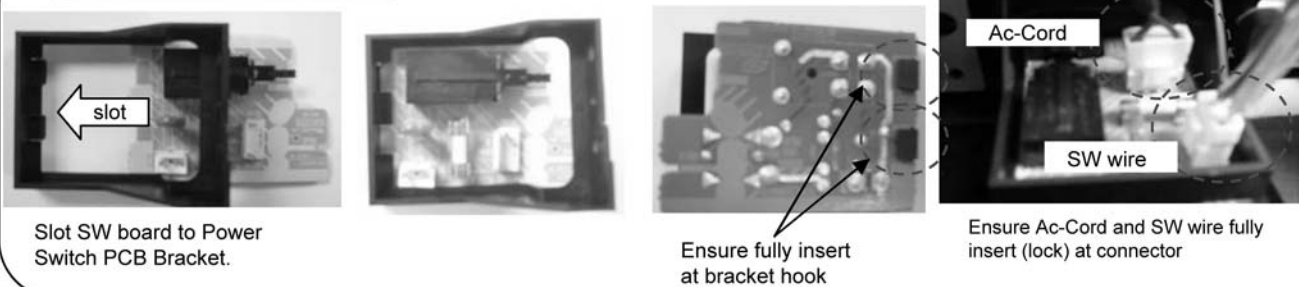
5 Chassis Board

5.1. Chassis Installation

1. Fix 12 pcs 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 at AT G-board.
3. Fix 2 pcs 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 pcs screw to cabinet with power switch PCB bracket.



Power Switch PCB Bracket Fitting

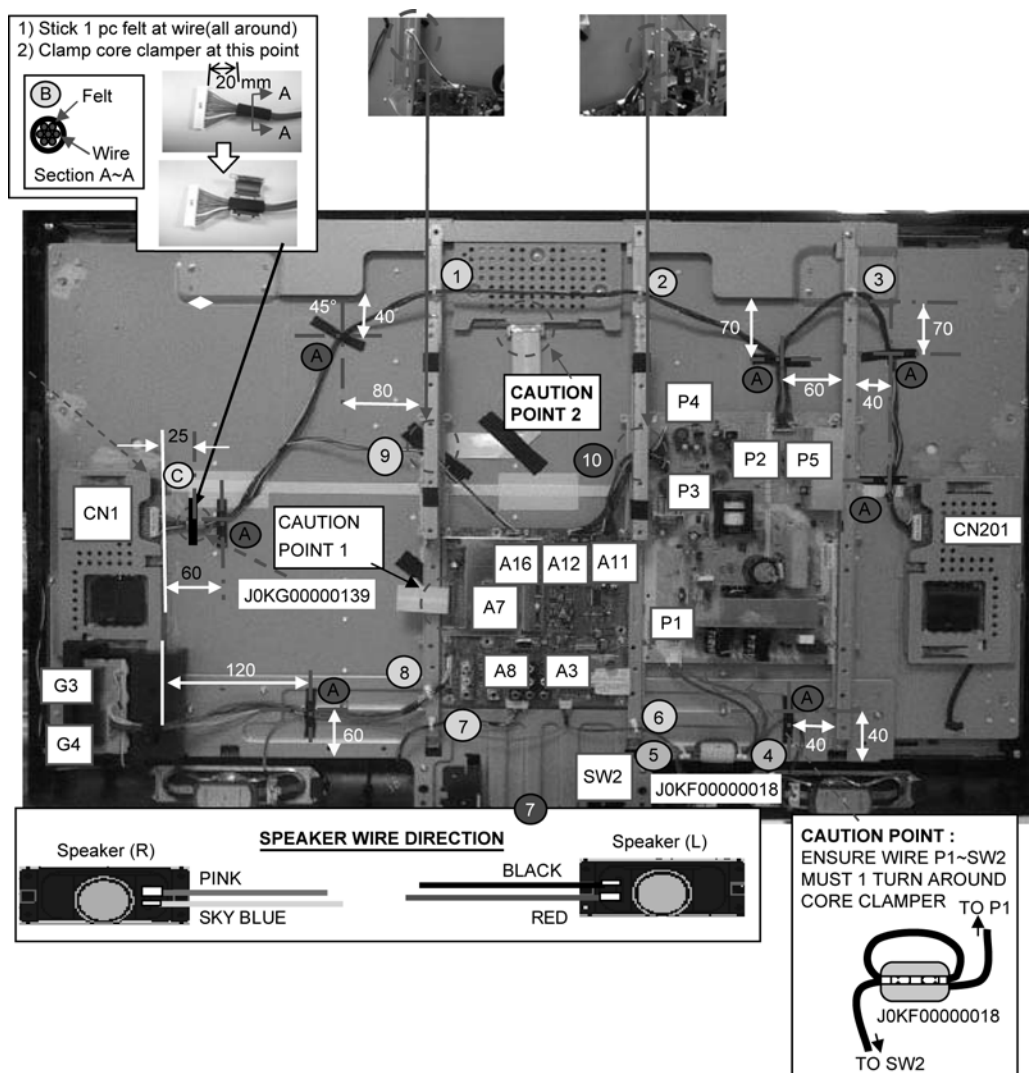


⊕ = SCREW - XTB4 + 15JFJ (3 pcs)

⊙ = SCREW - XYC3 + FJ8FJ (12 pcs)

6 Location of Controls and Components

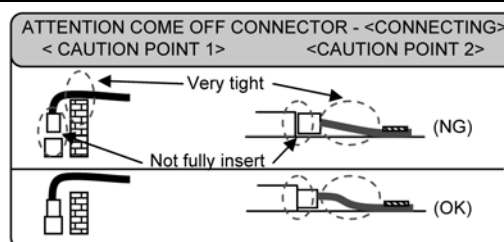
6.1. Wire Dressing



	Connection	1	2	3	4	5	6	7	8	9	10
1	CN 1 ~ P 2	●	●								
2	CN 1 ~ A 16									●	
3	A 11 ~ P 3										●
4	A 12 ~ P 4										●
5	A7 ~ G 4								●		
6	V 1 ~ A 8							●			
7	A 3 ~ SPEAKER (R)							●			
8	A 3 ~ SPEAKER (L)				●	●	●				
9	P 1 ~ SW 2				●	●					
10	P 5 ~ CN201			●							

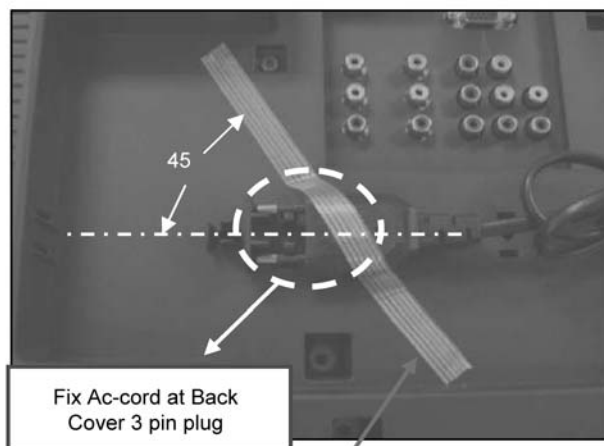
CLAMPER FOR CASING									
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	TMM76416-1								
④ ⑤	TMME047								
⑩	TMM7443-3								

- A = FELT - TMK4G230 = 7 pcs
● B = FELT - TMK4GA035 = 1 pc
● C = FELT - TMK4G142 = 1 pc



7 Disassembly and Assembly Instructions

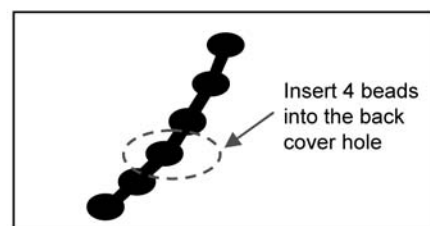
7.1. AC Code dressing for K2CQ2YY00009 (2 Pin)



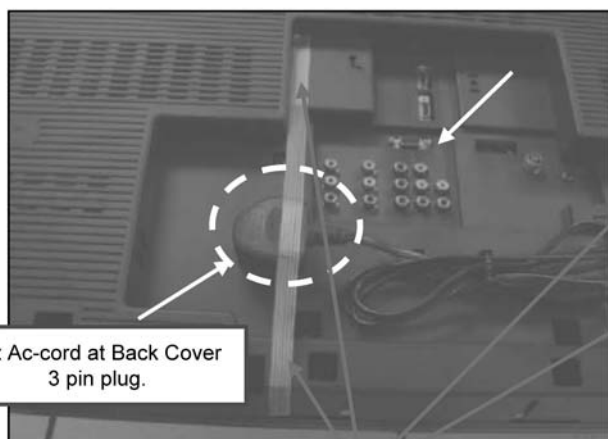
Stick filament tape at ac-cord into back cover and ensure filament tape fully rub (T5EL0612Q = 150mm)



SIDE VIEW



7.2. AC Code dressing for K2CT2YY00009 (3 Pin)



Stick filament tape at ac-cord into back cover and ensure filament tape fully rub (T5EL0612Q = 285mm)

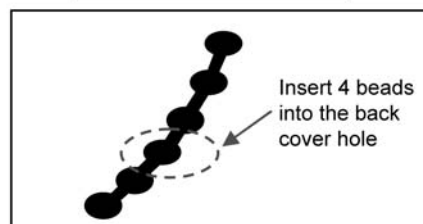


OK



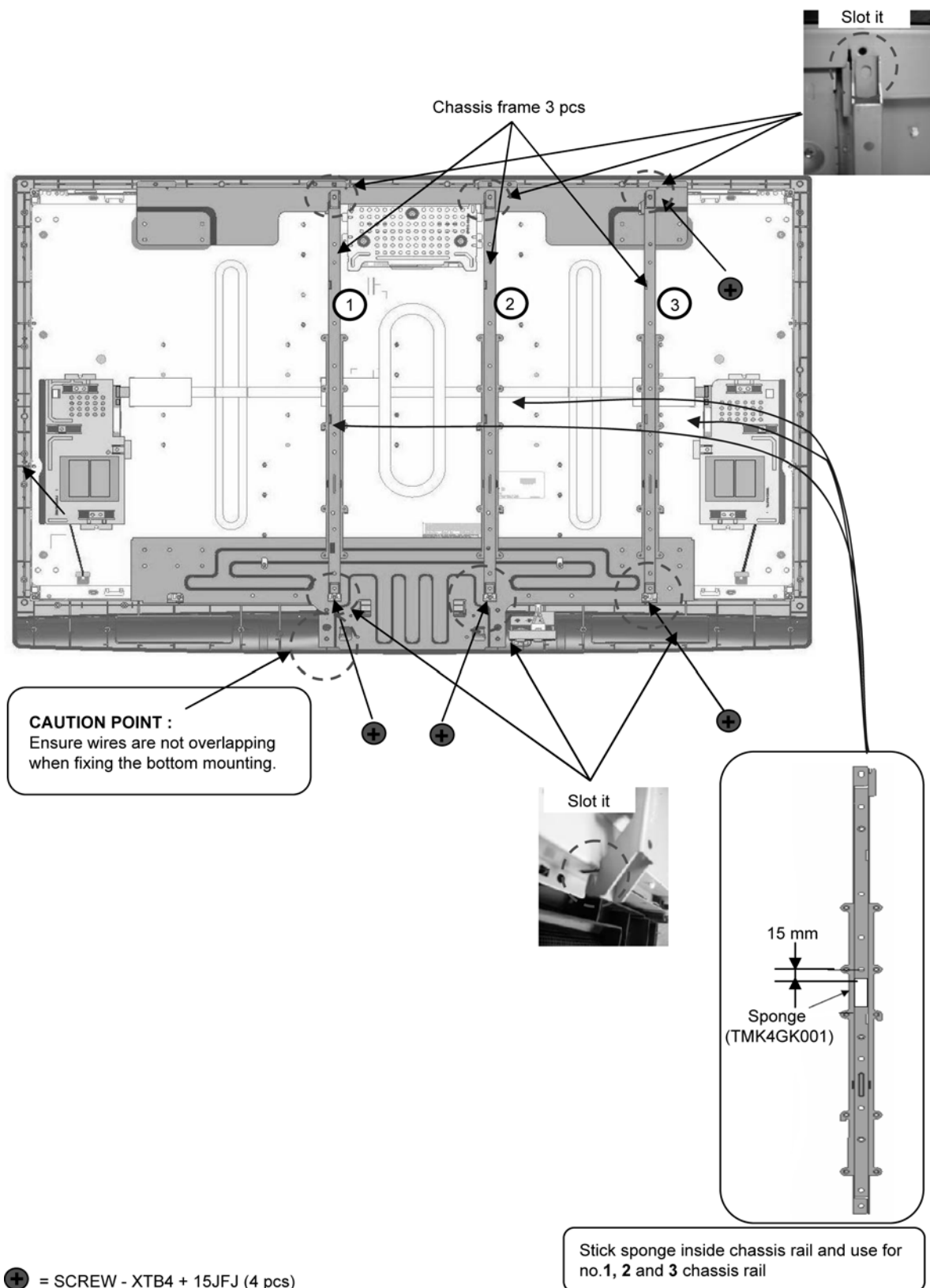
NG

SIDE VIEW



7.3. Chassis Rail Installation

1. Stick sponges at chassis rail for rail no.1, no.2 and no.3.
2. 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).



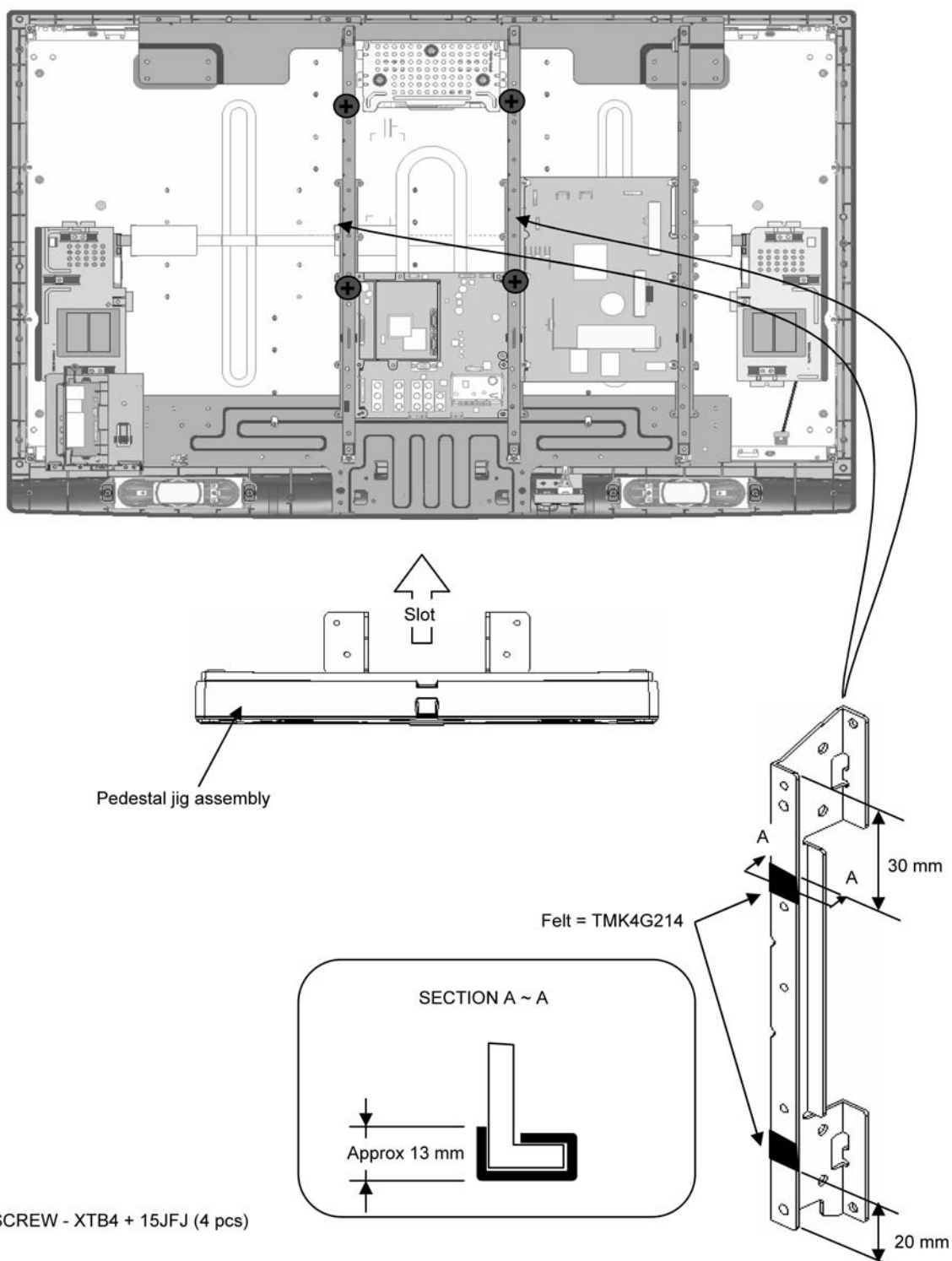
7.4. VESA Bracket Installation

1. Stick 2 pcs of felt at VESA bracket (each part).

2. Fix 4 pcs screws to VESA bracket.

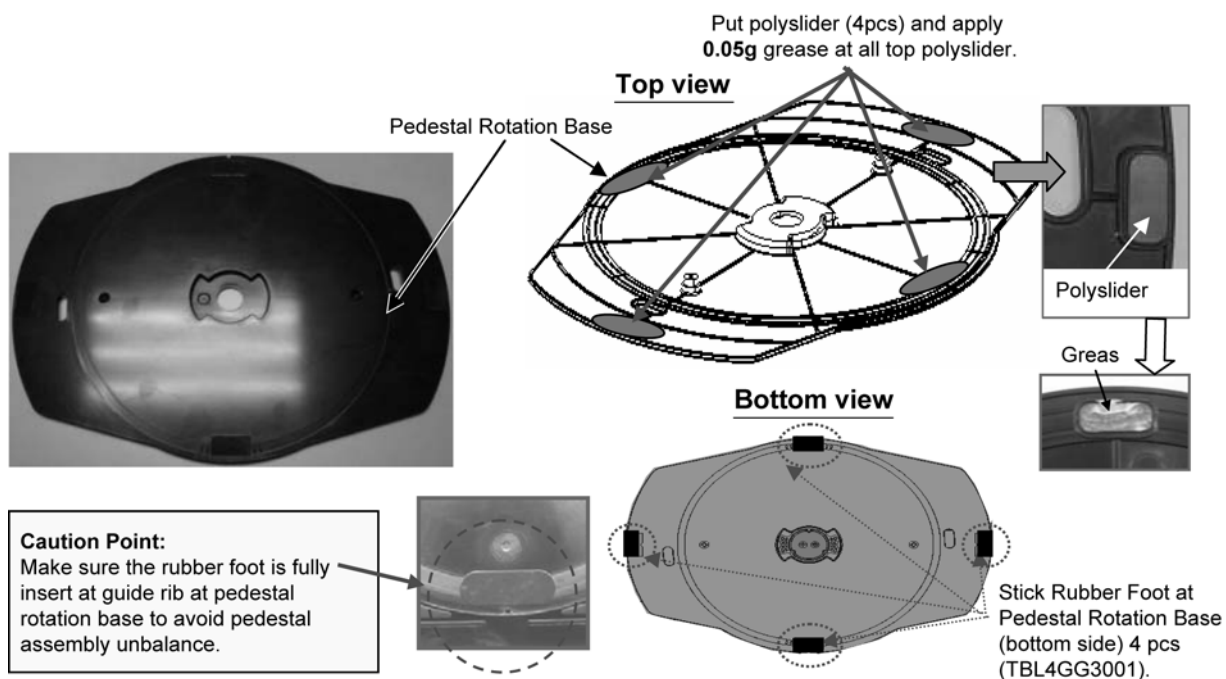
Tightening torque should be 100 Ncm to 130 Ncm (10 kgf cm to 13 kgf cm).

3. Slot pedestal jig assembly to cabinet.

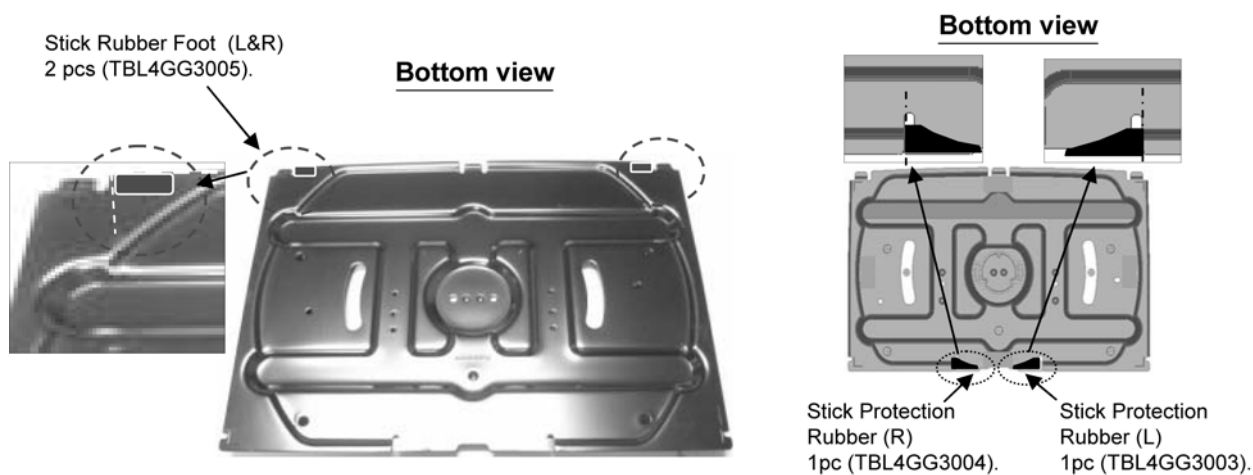


7.5. Pedestal Assembly Preparation

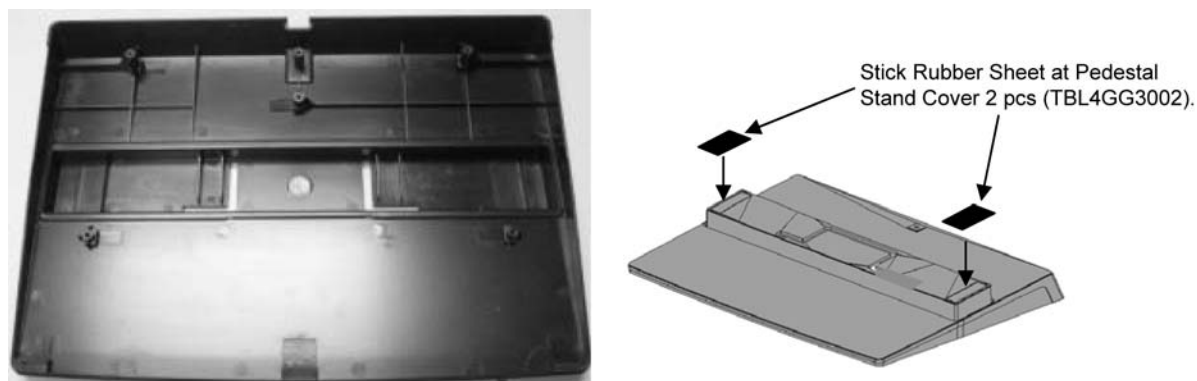
7.5.1. Pedestal Rotation Base



7.5.2. Pedestal Stand Base Preparation

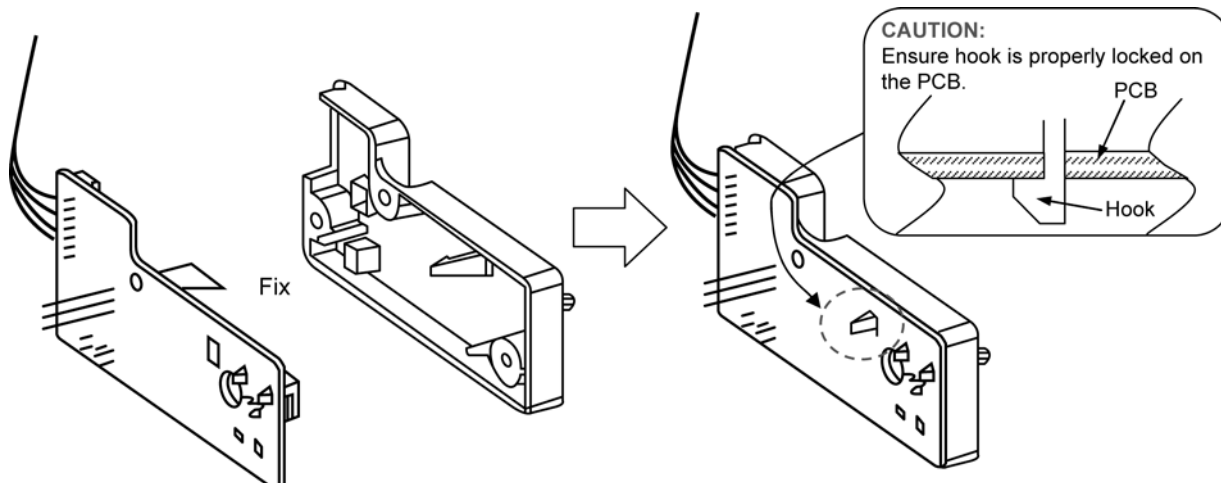


7.5.3. Pedestal Stand Cover Preparation

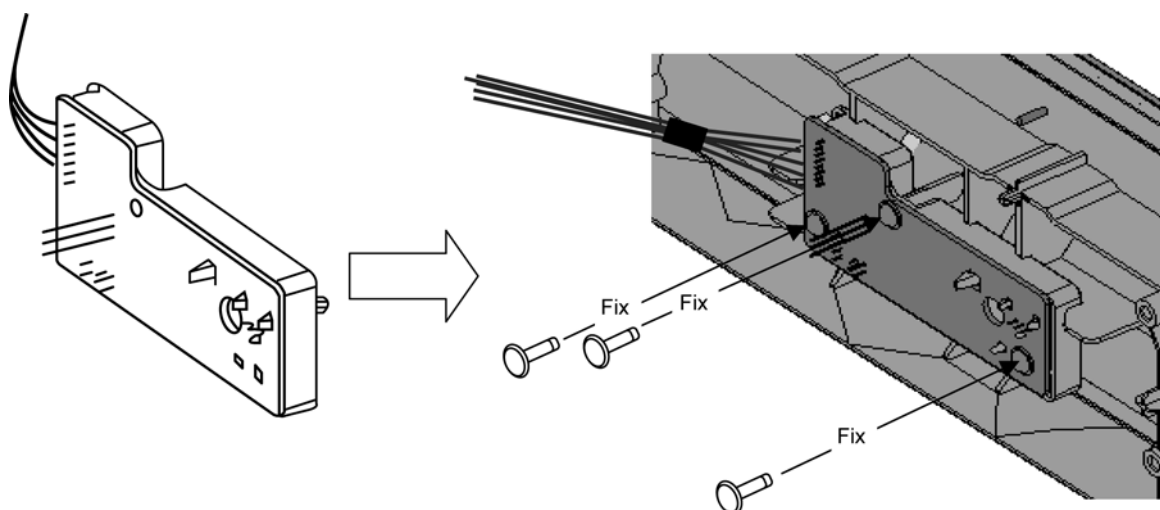


7.6. LED Panel Installation

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

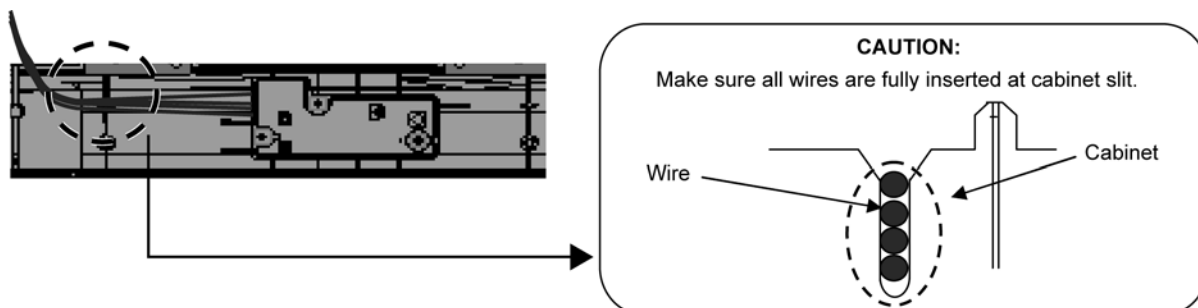


2. Fix LED panel to cabinet with 3 screws.
Tightening torque should be 0.5 N m ~ 0.8 N m (5 to 8 kgf cm).



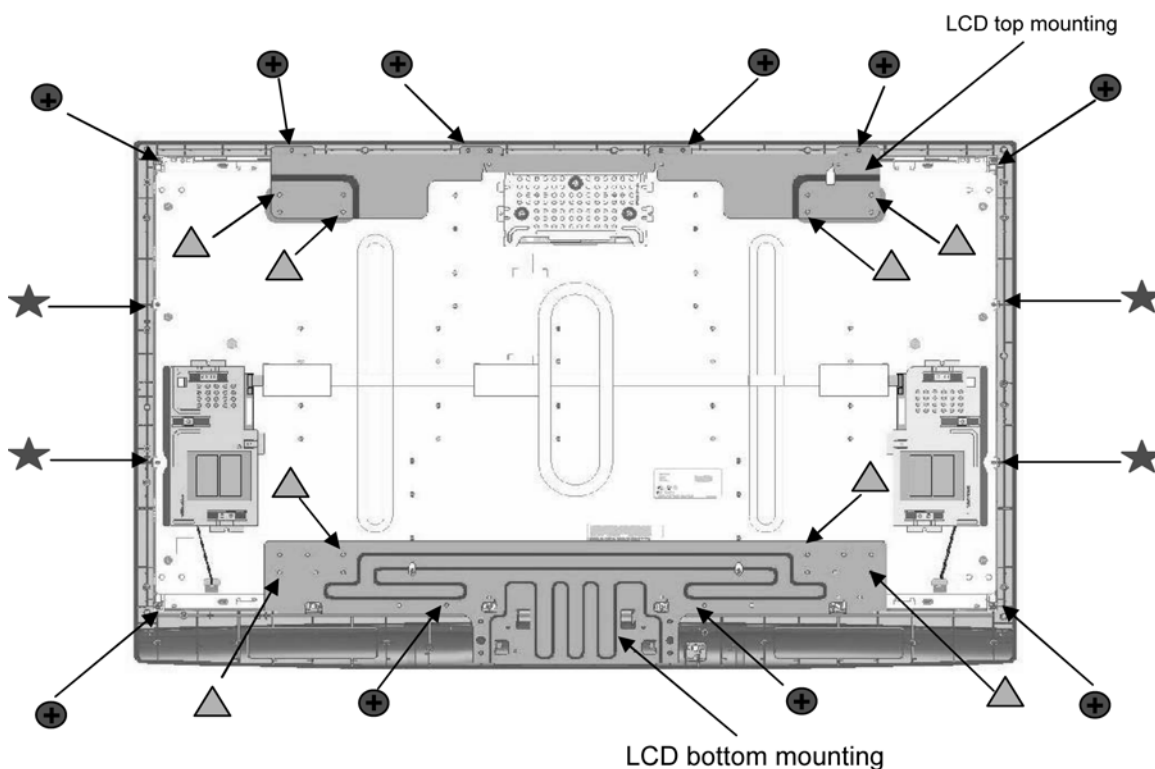
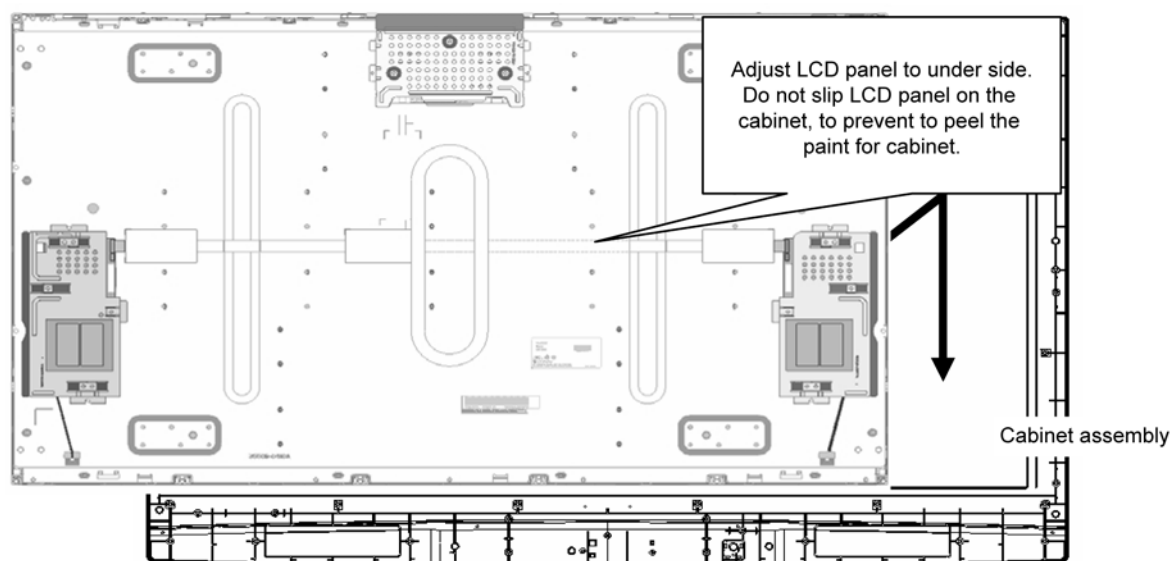
= Screw - XTW3 + 10TFJ (3 pcs)

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

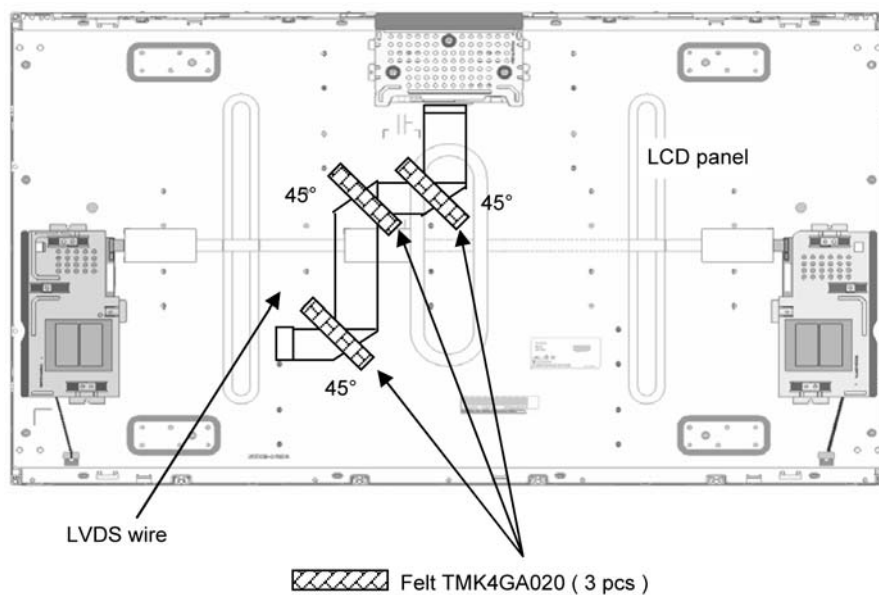
1. Put LCD panel to cabinet assembly.
 2. Follow by LCD top mounting and LCD bottom mounting.
 3. Fix screw into LCD panel, LCD top mounting and LCD bottom mounting.
- Tightening torque should be 100 N cm ~ 130 N cm (10 kgf cm to 13 kgf cm).



- ⊕ = SCREW - XTB4 + 15JFJ (10 pcs)
 ★ = SCREW - XTB4 + 25JFJ (4 pcs)
 ▲ = SCREW - XYN4 + F6FJ (8 pcs)

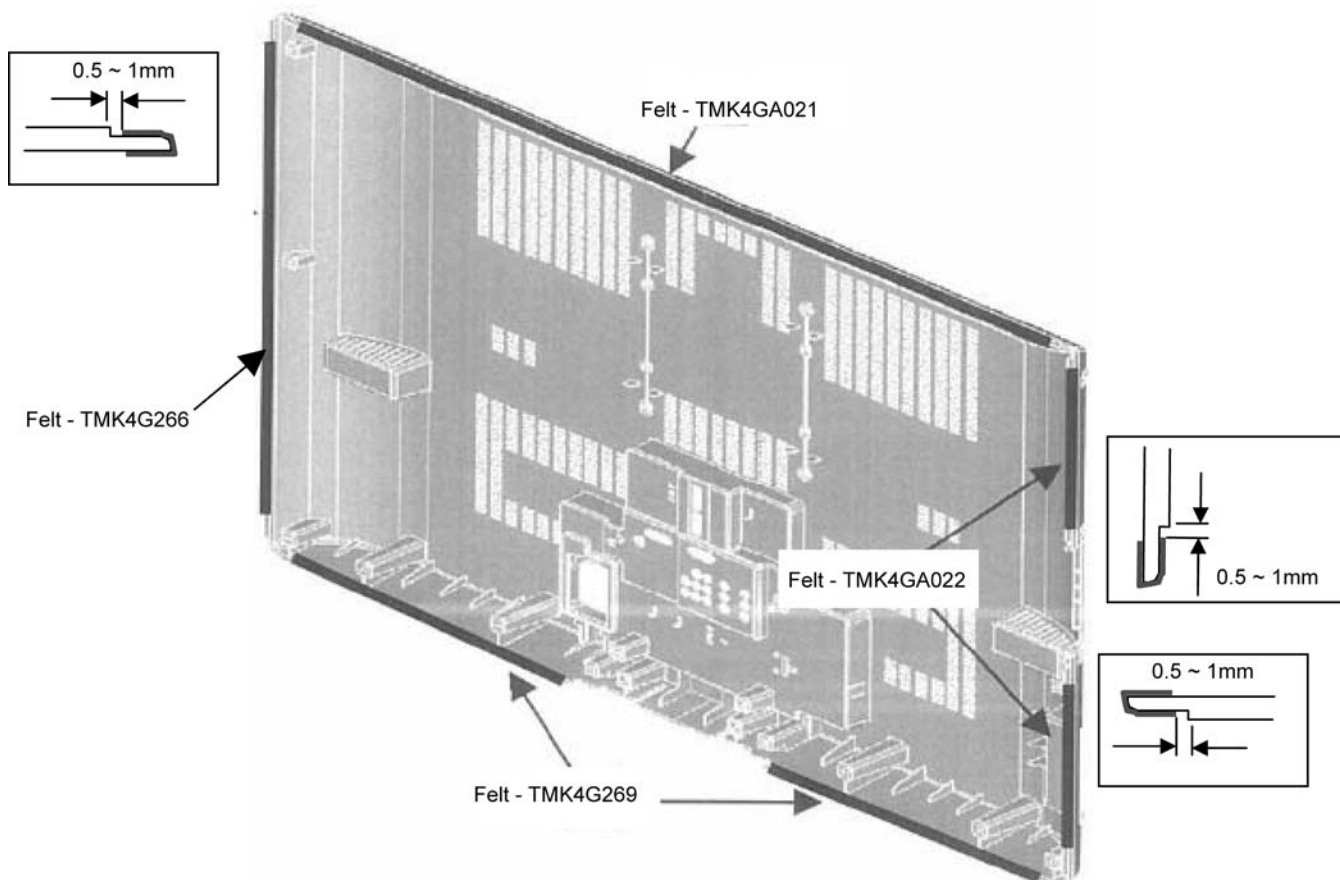
7.8. LVDS Installation

1. Insert LVDS wire into T-con connector.
2. Stick the felts to hold LVDS wire.

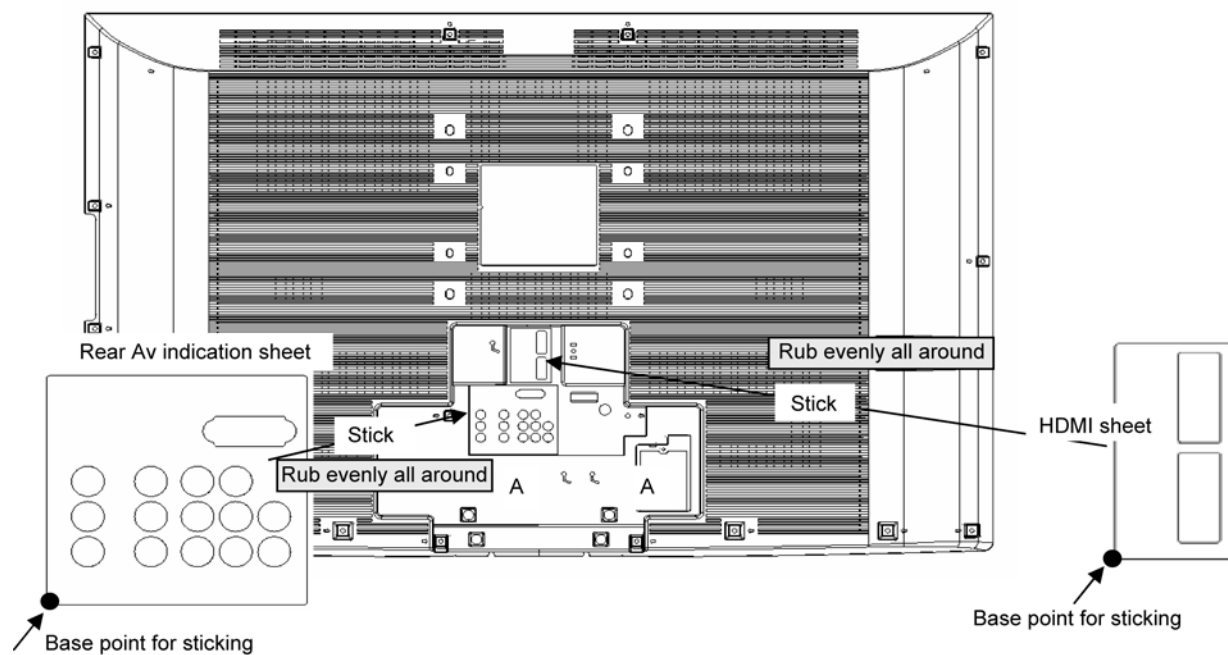


7.9. Back Cover

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, then press ok button.

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

8.2. SERVICE 2

1. Select CHECK mode in service 1, by press button 4, then press the "HOLD" button (on the remote control) to enter service 2.

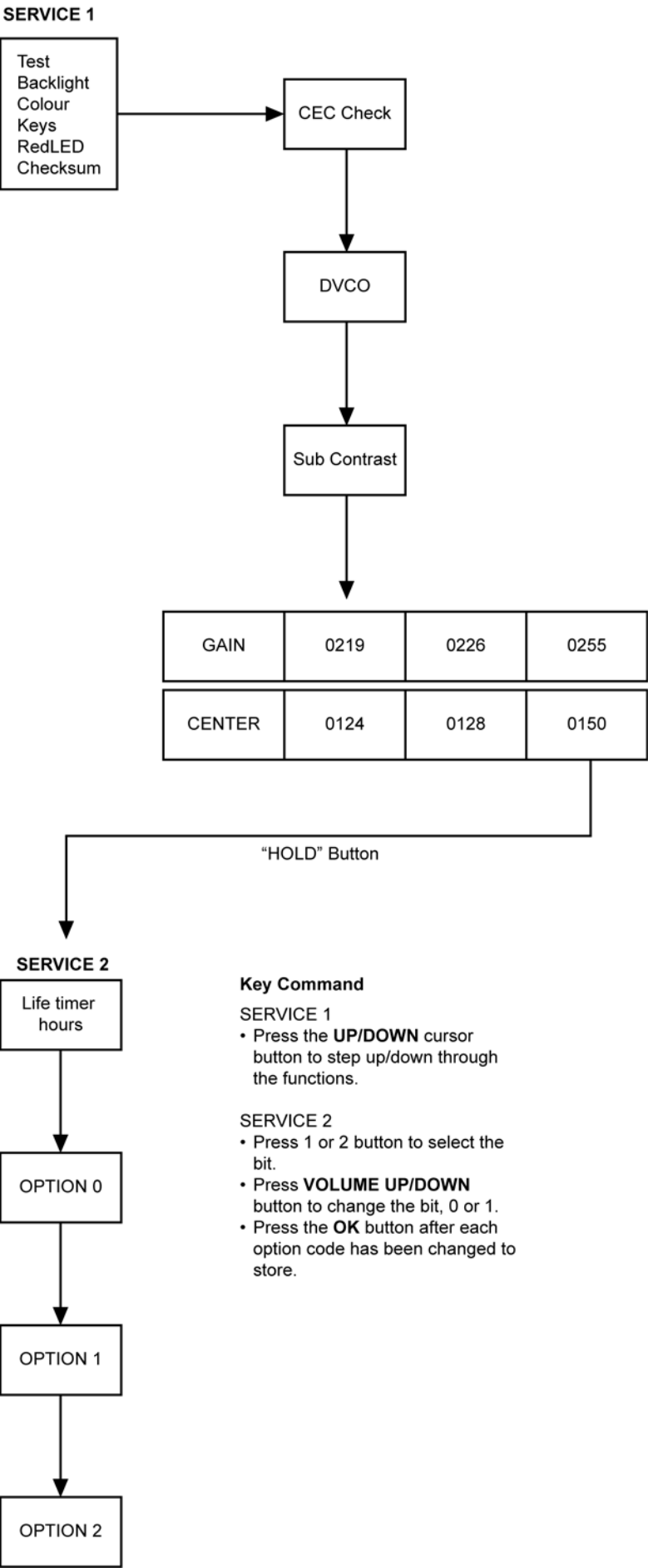
8.3. Self Check Mode

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.





9 Measurements and Adjustments

9.1. Voltage Chart of A Board

Power name	Test point	Specification	
		NORMAL	STANDBY
MAIN_5V	TP1823	$5.0 \pm 0.25V$	—
BT_30V	TP1820	$30.0V \pm 2.0V$	—
24V	TP1818	$24.0 \pm 1.2V$	—
MAIN_8V	TP1822	$8.0V \pm 0.4V$	—
STB_3.3V	TP1835	$3.30 \pm 0.17V$	$3.30 \pm 0.17V$
MAIN3.3V	Pin 8 A8-A	$3.30 \pm 0.17V$	—
STBY1.0V	TP1838	$1.0V \pm 0.05V$	$1.0V \pm 0.05V$
MAIN1.0V	TP3832	$1.025V \pm 0.017V$	—
CORE1.0V	TP1842	$1.08V \pm 0.019V$	—
MAIN1.25V	TP1844	$1.25V \pm 0.05V$	—
MAIN1.8V	TP1847	$1.8V \pm 0.07V$	—
MAIN2.5V	TP1848	$2.5V + 0.137V, -0.114V$	—
SOUND_13.9V	TP1816	$13.9V \pm 0.7V$	—

SOS CHECK A BOARD

• TV-SOS Check

1. Connect Collector of Q2310 at TP 1850 (A-PCB parts side) to GND.
2. Check the set is OFF and LED is red blink 5 times repeating.

• INV_SOS

1. Apply DC 3.3V to Q2311 Collector AT TP 1849.
2. Check the set is OFF and LED is red blink 5 times repeating.

9.2. Voltage Chart of P Board

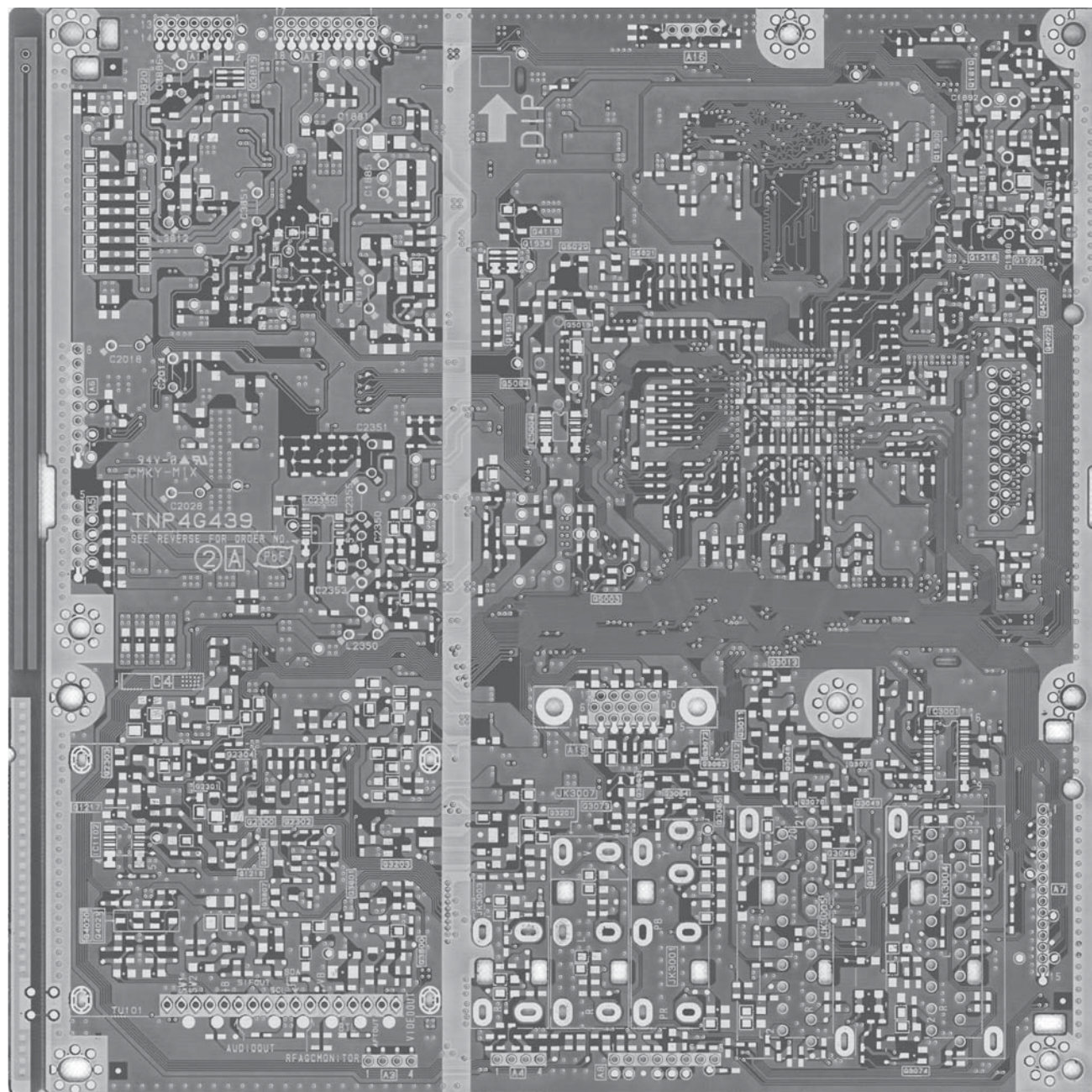
Power name	Test point	Specification	
		NORMAL	STANDBY
PANEL_12V	TPP033	$12.0 + 0.60V, -0.45V$	—
BT_30V	TPP015	$30.0V \pm 2.0V$	—
24V	TPP007	$24.0 \pm 1.2V$	—
MAIN_8V	TPP006	$8.0V \pm 0.4V$	—
STB_3.3V	TPP035	$3.30 \pm 0.17V$	$3.30 \pm 0.17V$
SOUND_13.9	TPP028	$13.9V \pm 0.7V$	—

1. Connect the dummy set and turn on the main power SW and check that each output voltage of test point is within the specifications below.

CONDITION : Philip pattern - dynamic (Normal)
- Sound Minimum

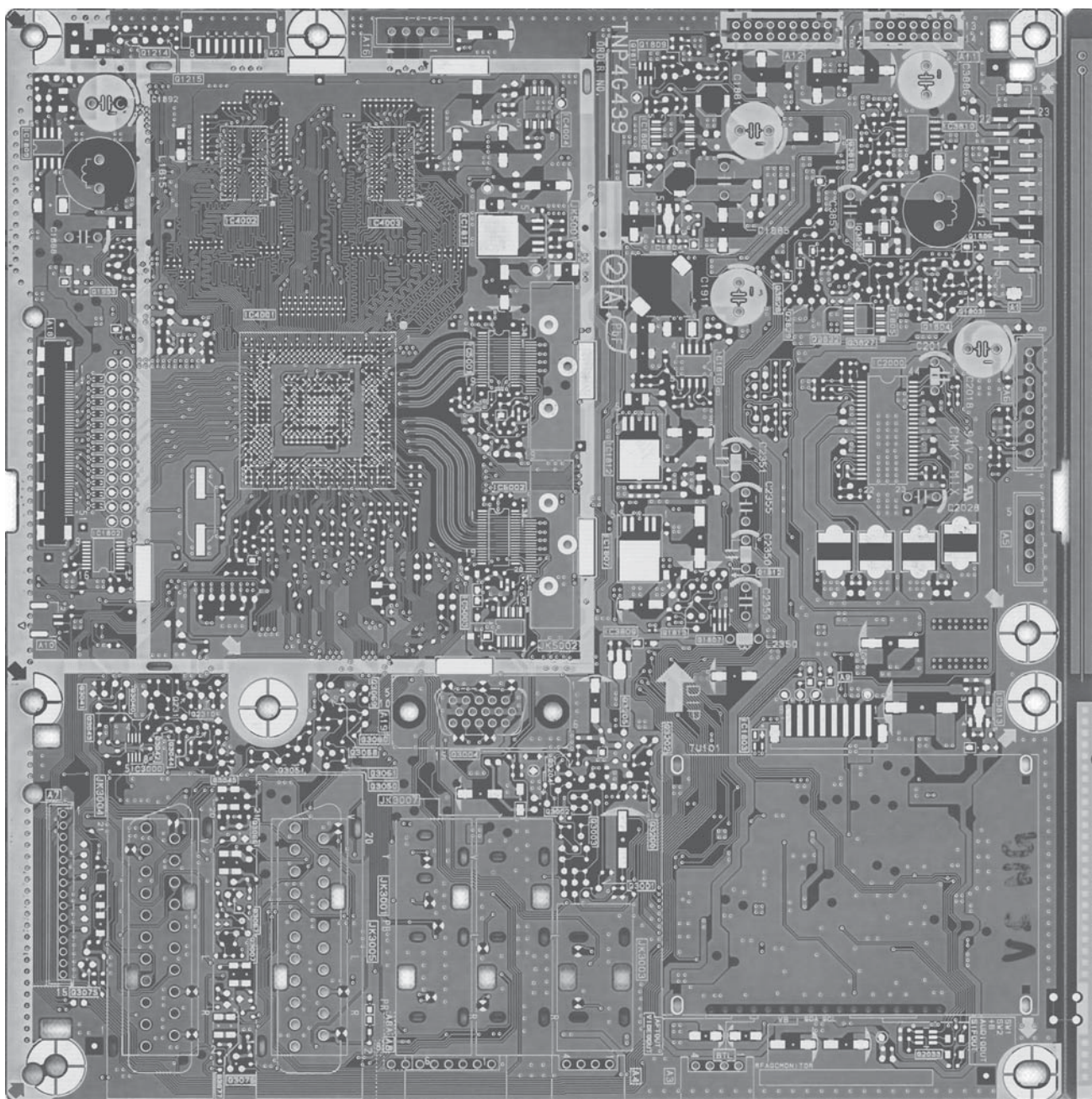
2. Turn off the power supply by the remote controller and set to standby and check that each output voltage of test point is within the specifications below.

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 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 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.

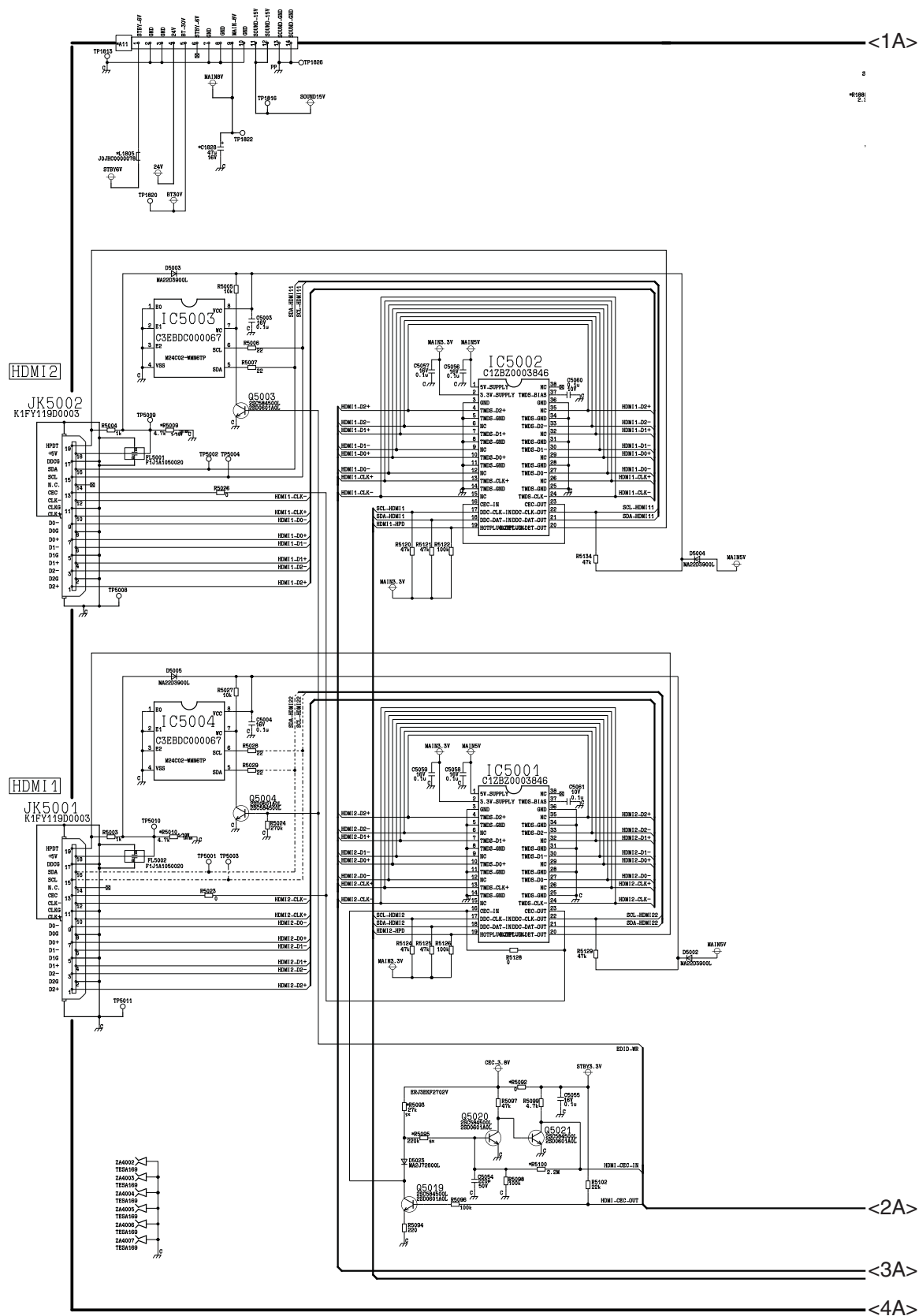
c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse may blow.

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

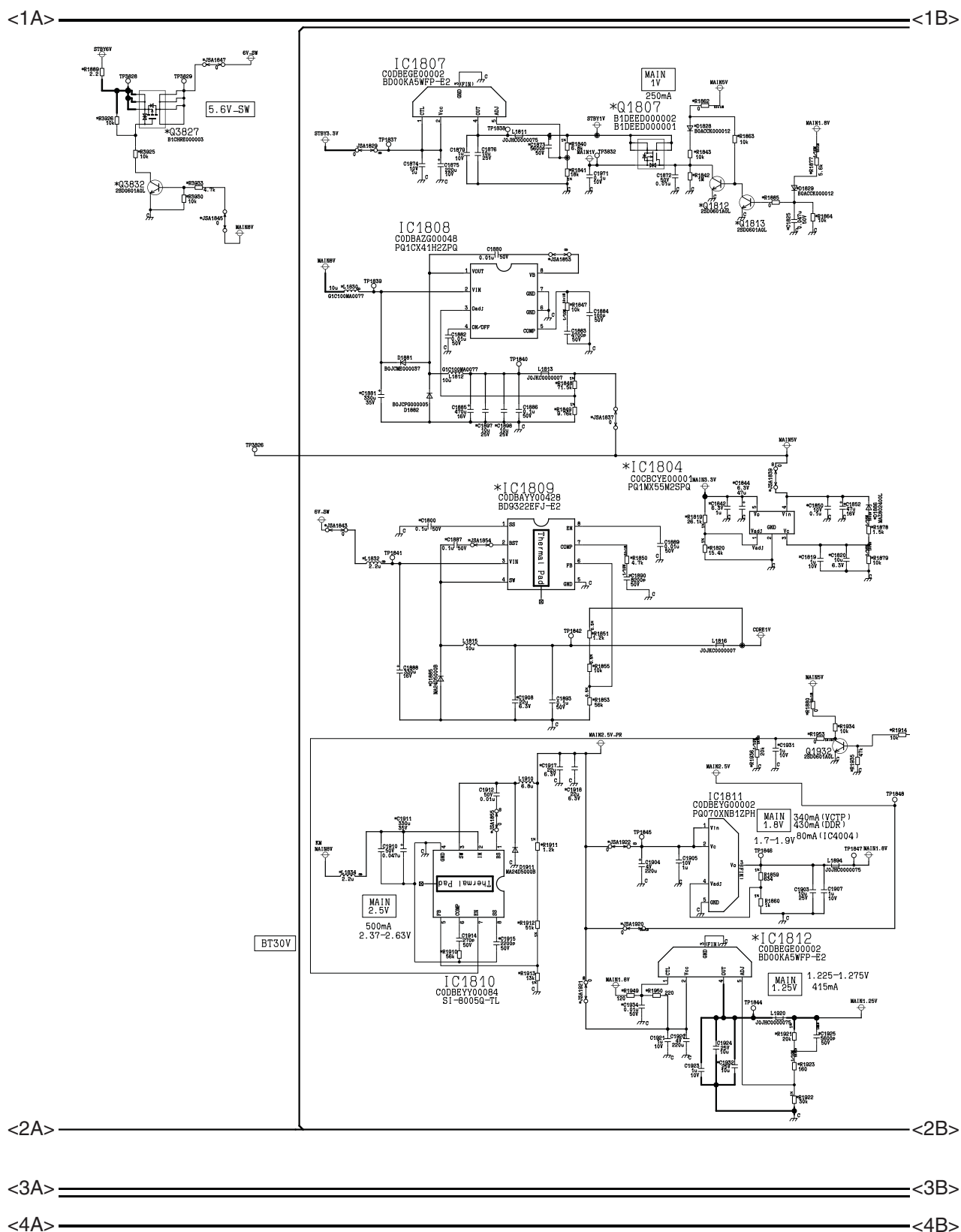
d. Make sure to disconnect the power plug before removing the chassis.

11.2. A Board

11.2.1. A Board (1 / 11)

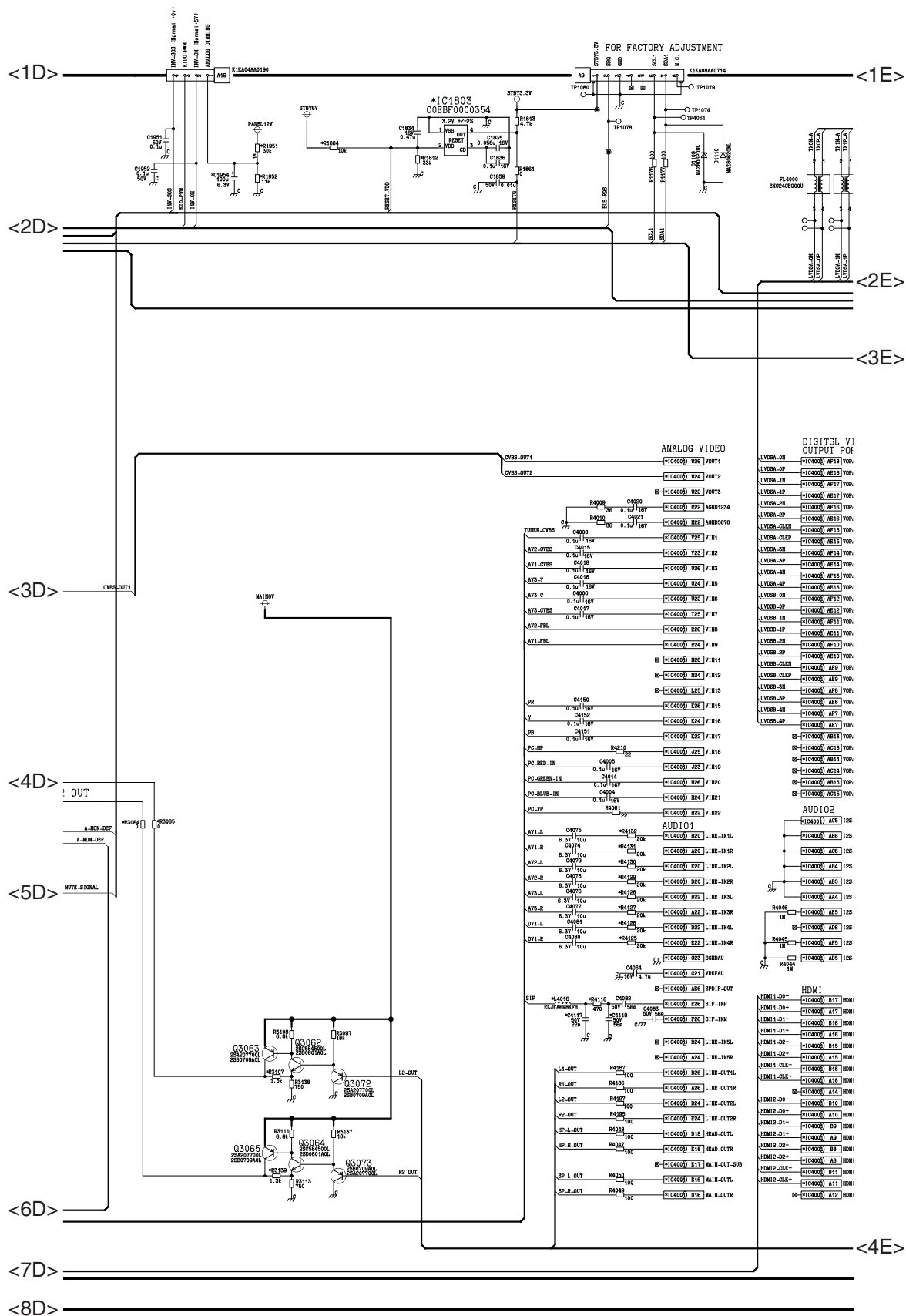


11.2.2. A Board (2 / 11)

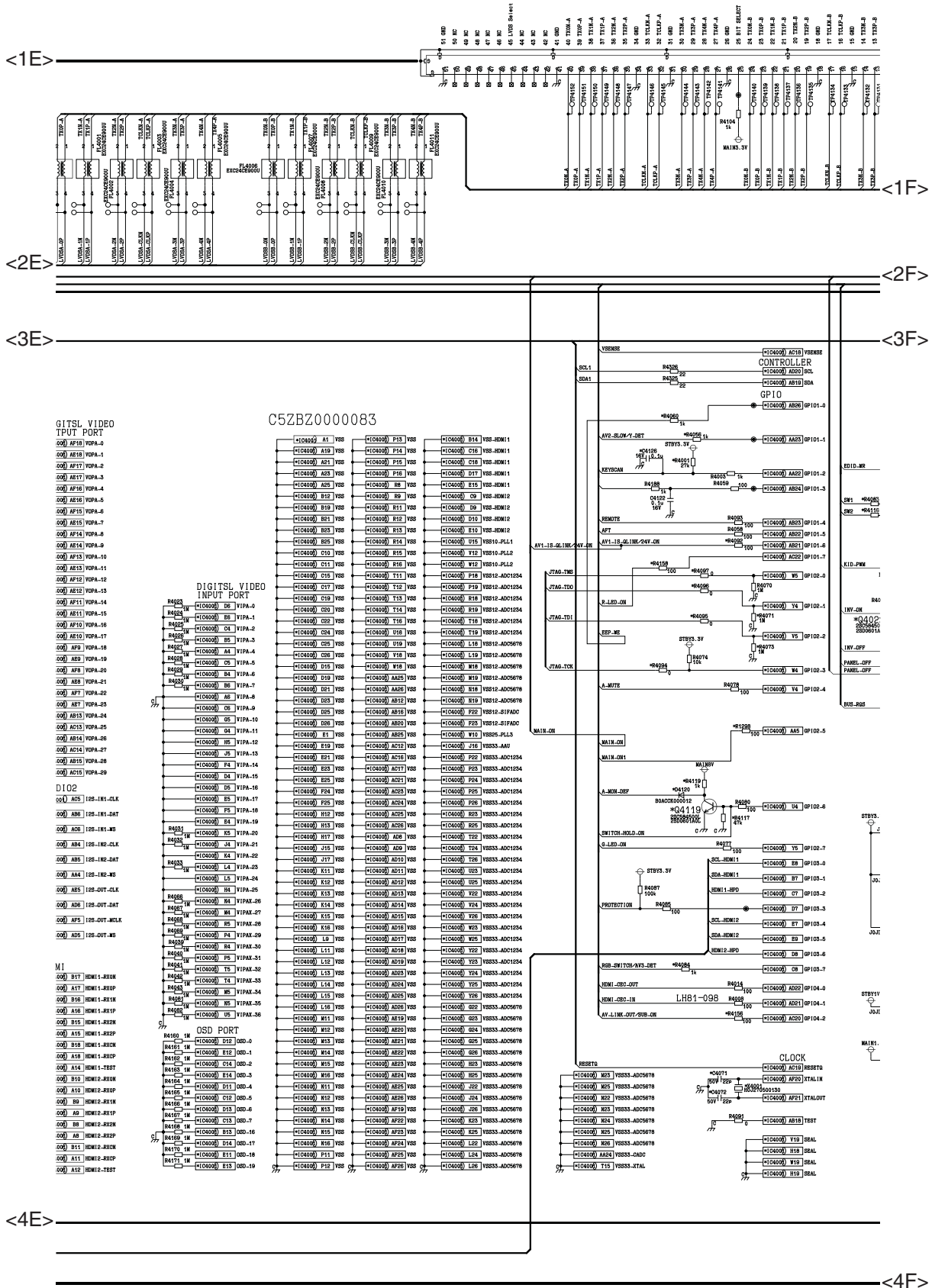




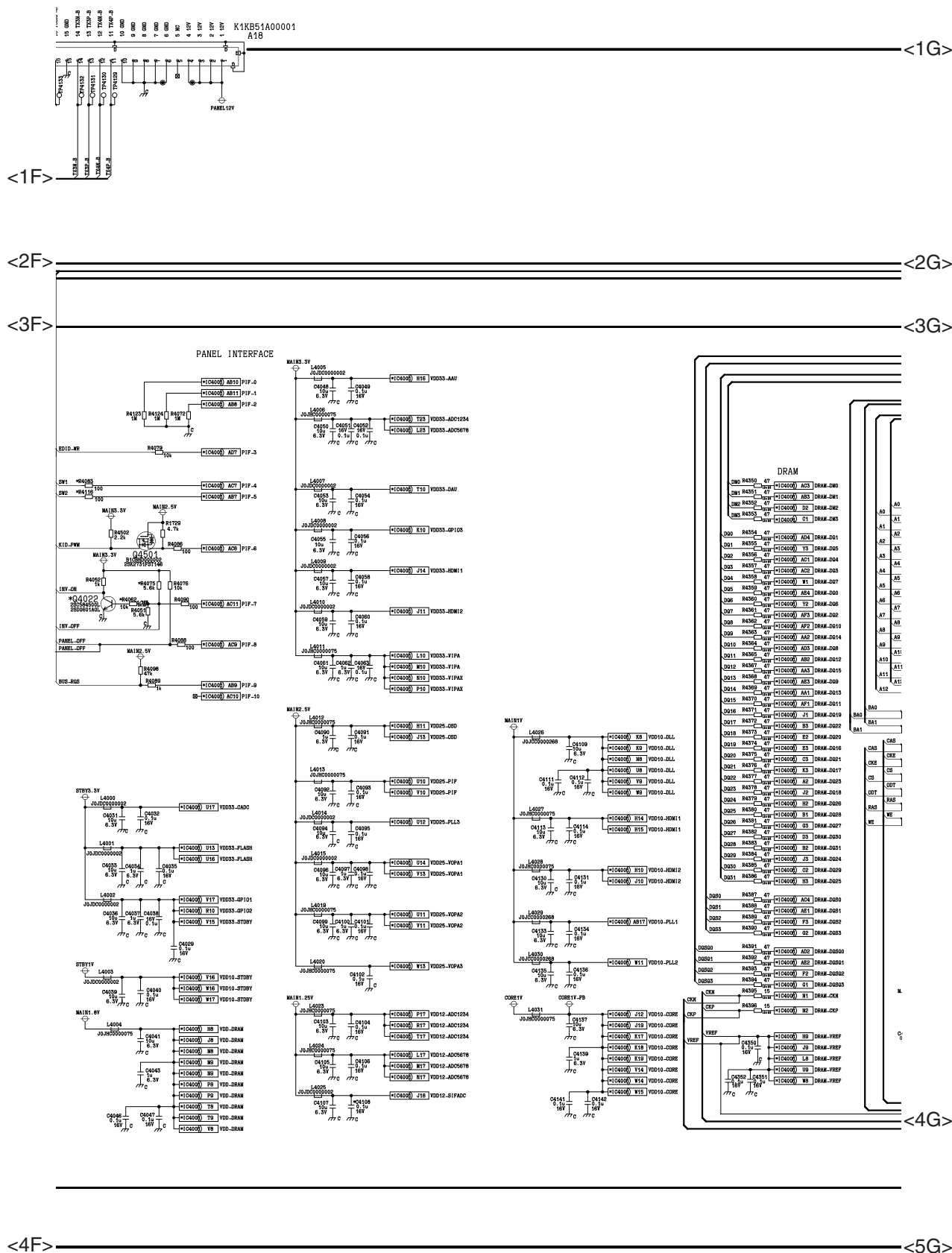
11.2.5. A Board (5 / 11)



11.2.6. A Board (6 / 11)



11.2.7. A Board (7 / 11)



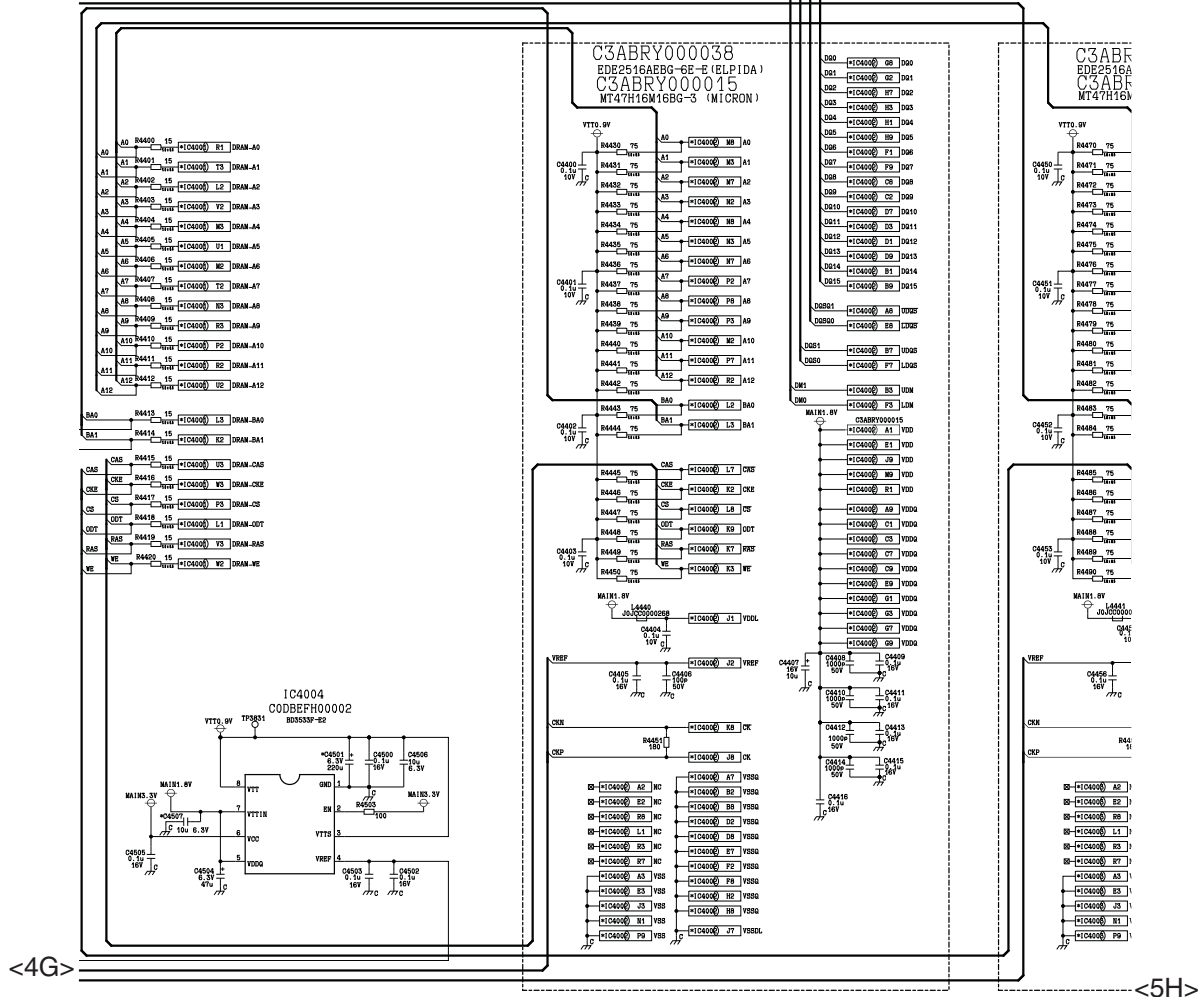
11.2.8. A Board (8 / 11)

<1G> _____ <1H>

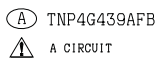
<2G> _____ <2H>

<3G> _____ <3H>

_____ <4H>

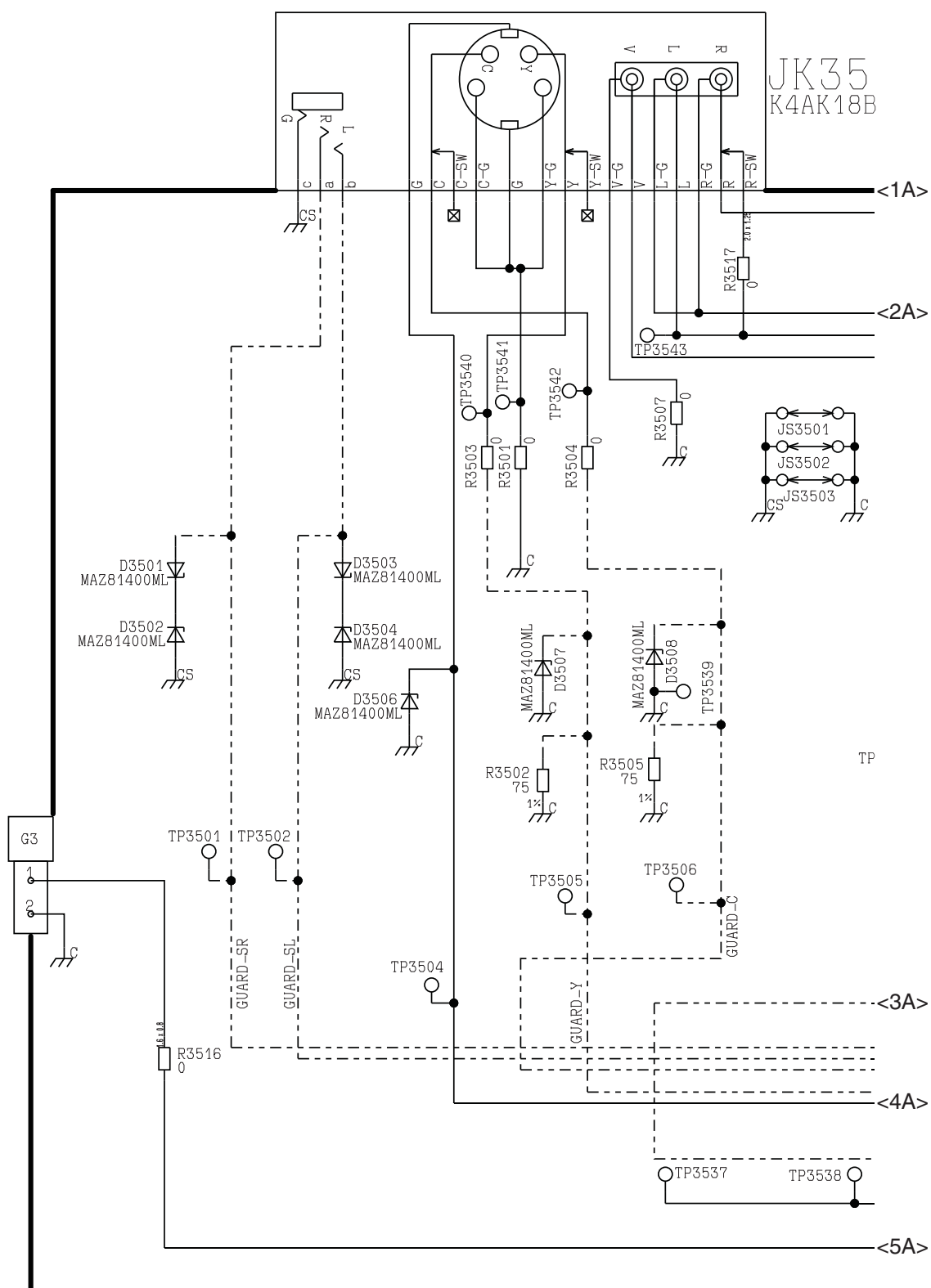


<5G> _____ <6H>



11.3. G Board

11.3.1. G Board (1 / 2)



11.3.2. G Board (2 / 2)

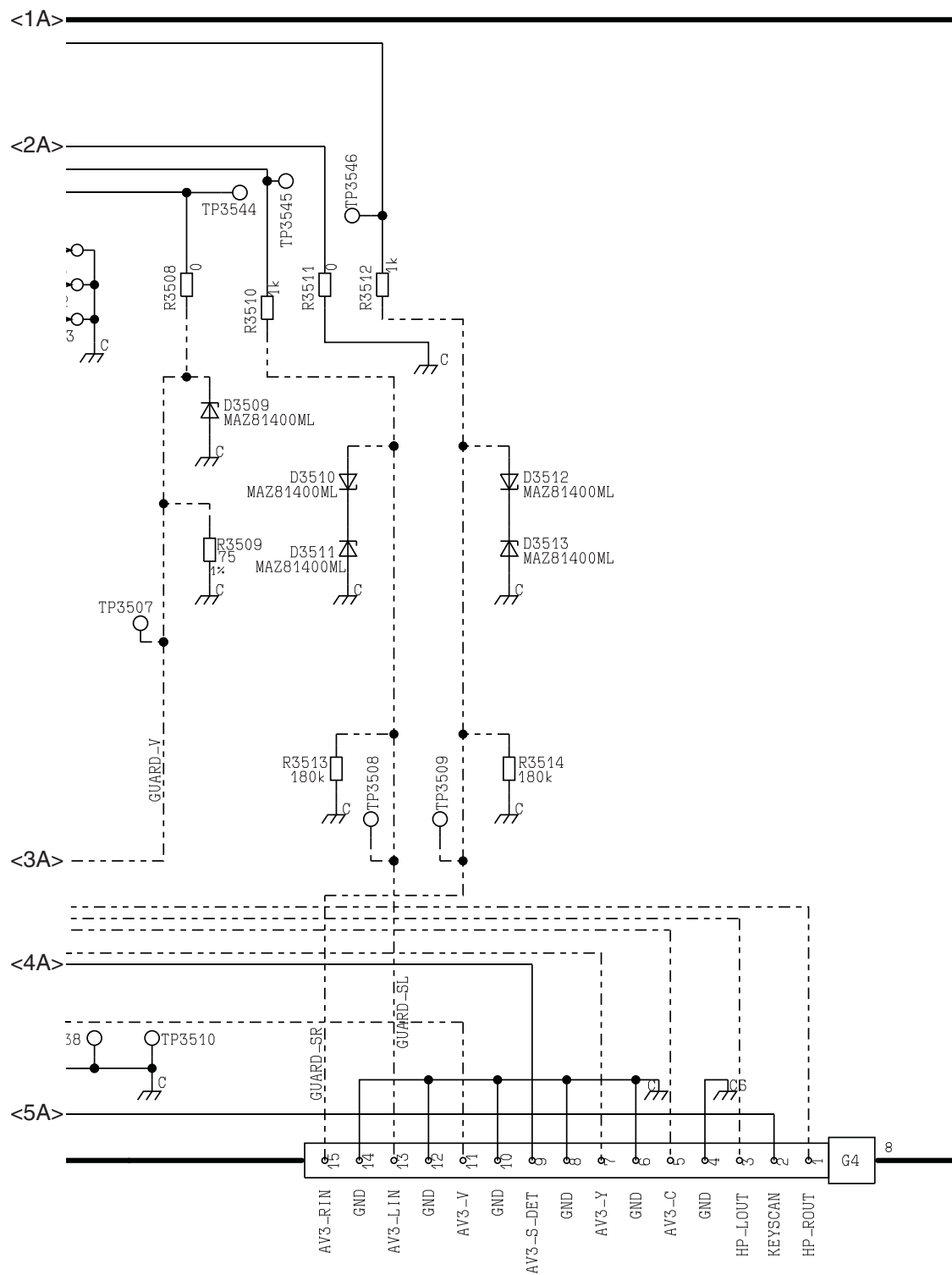
3501
18B00004



TNP4G443AA

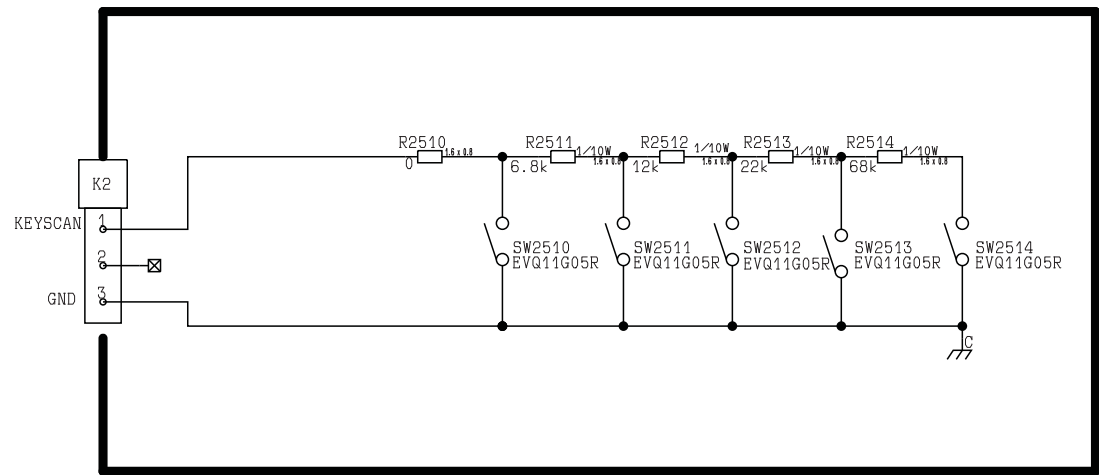


G CIRCUIT



11.4. K2 Board

11.4.1. K2 Board (1 / 1)



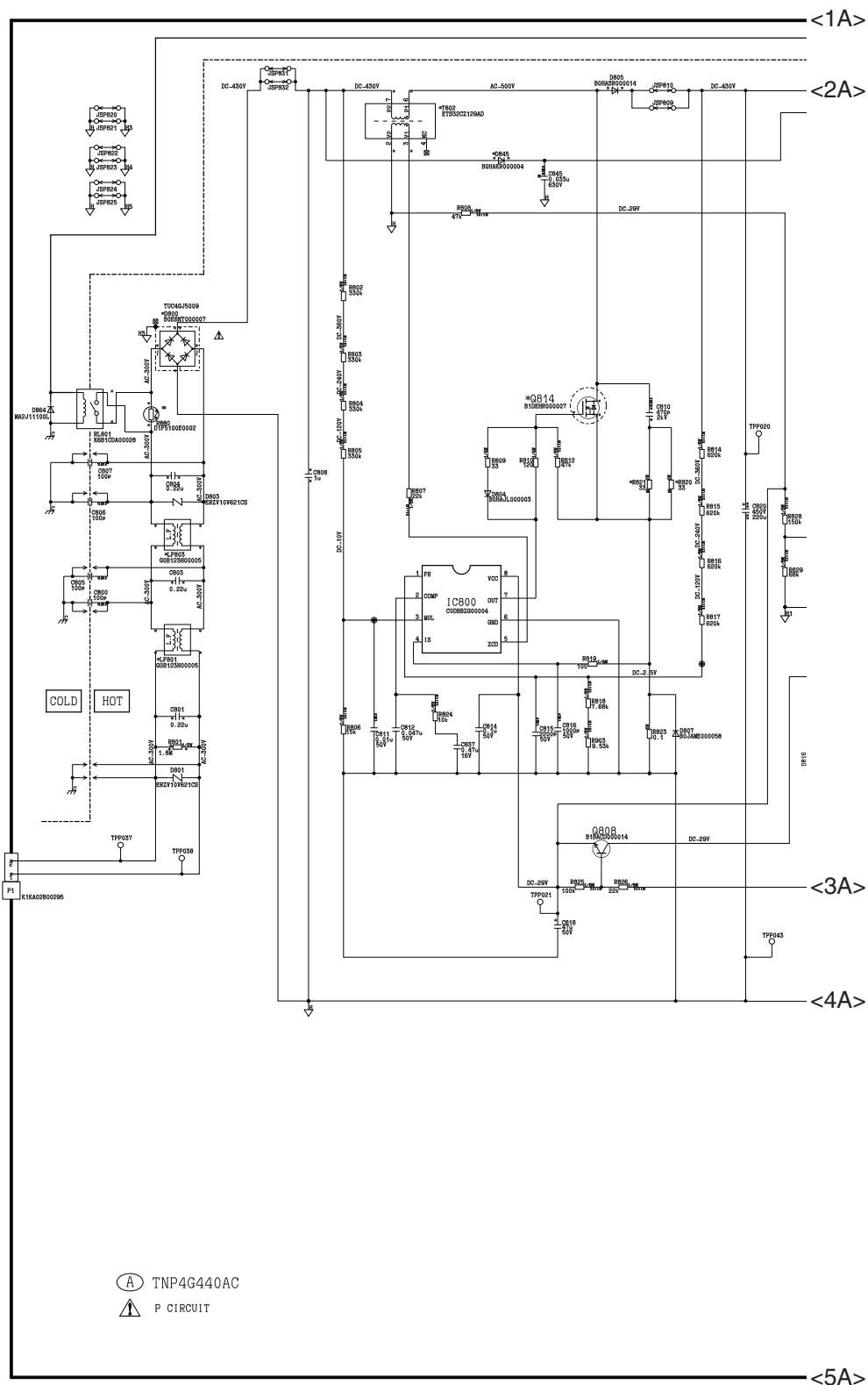
(K2) TNP4G442AA



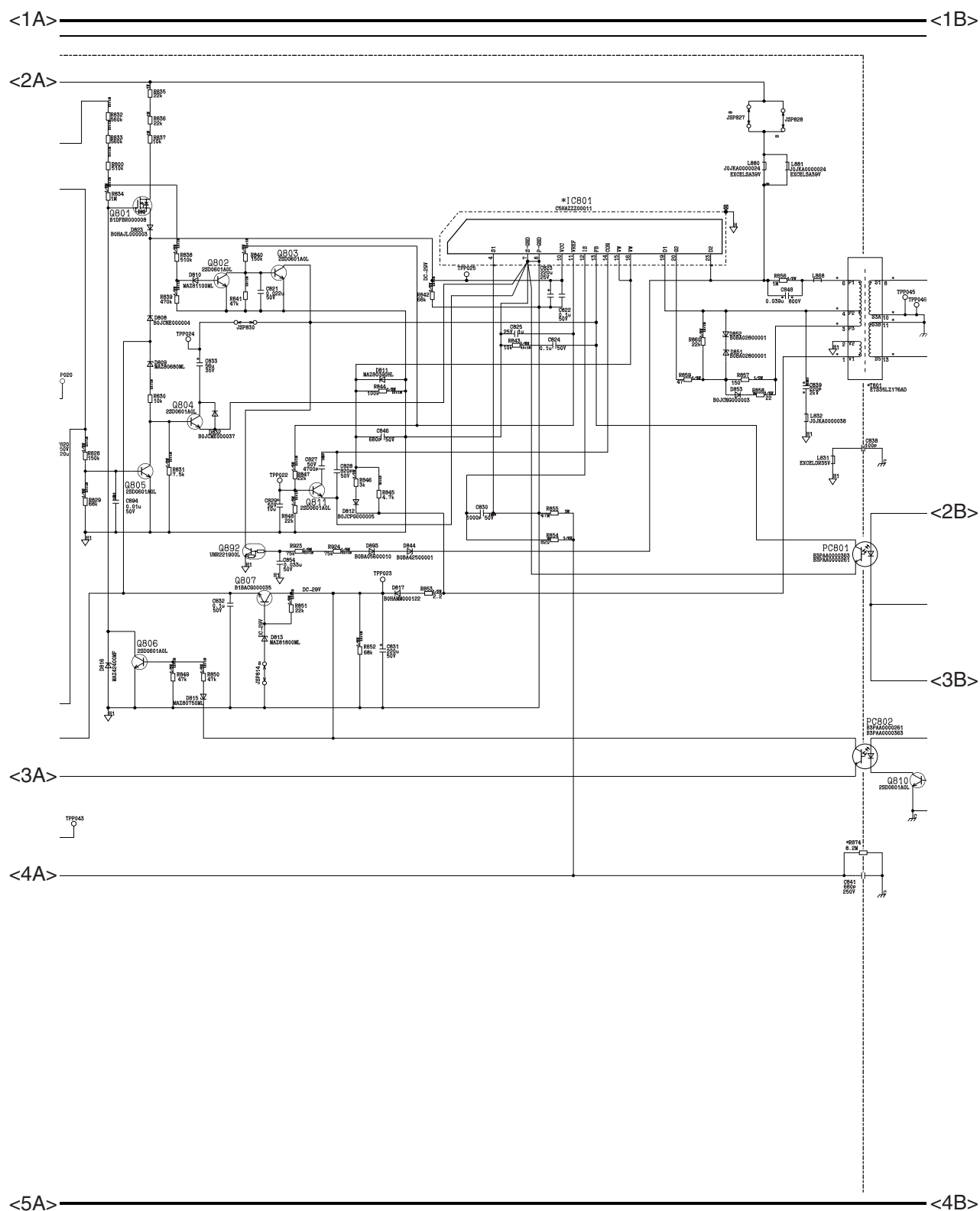
K2 CIRCUIT

11.5. P Board

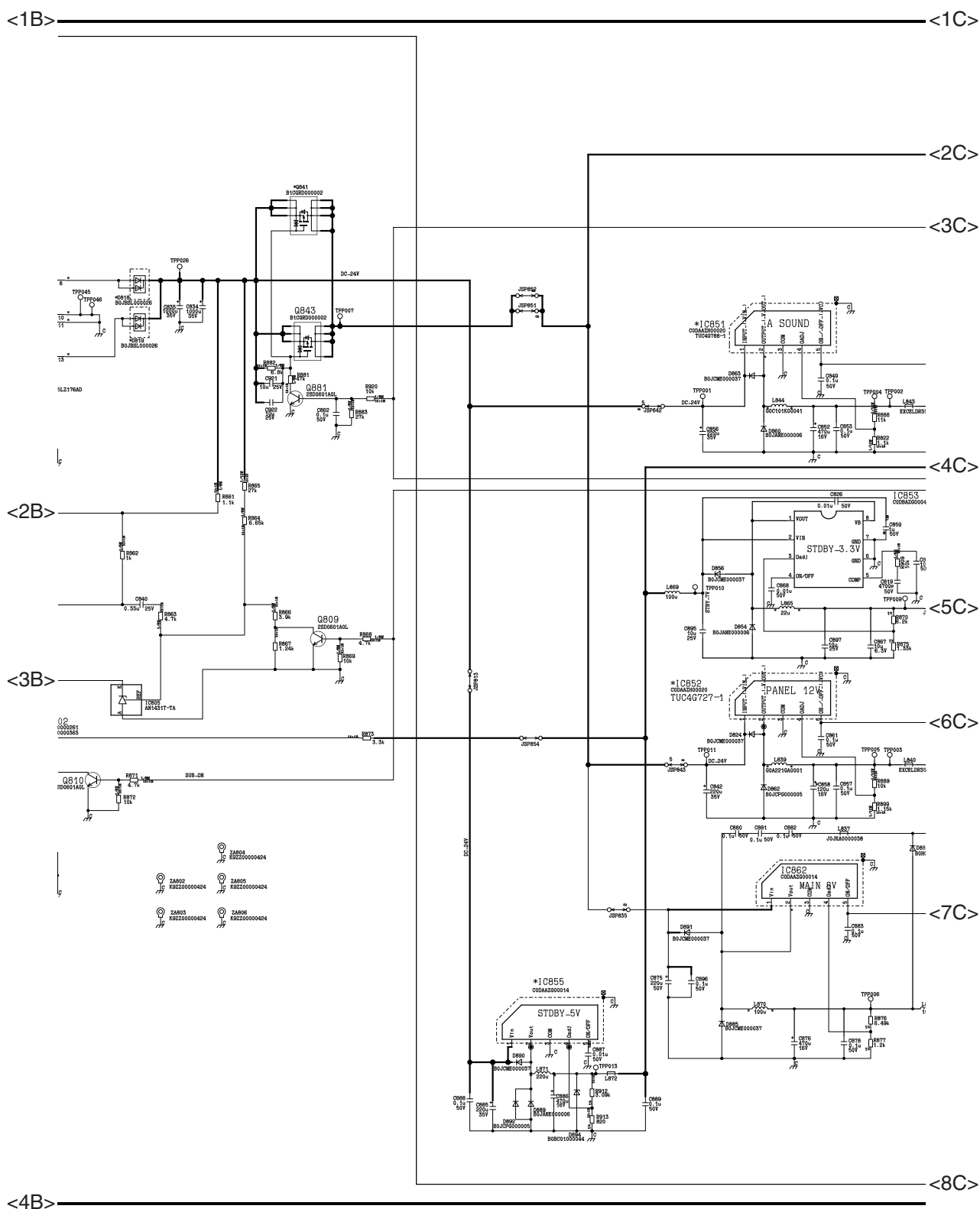
11.5.1. P Board (1 / 4)



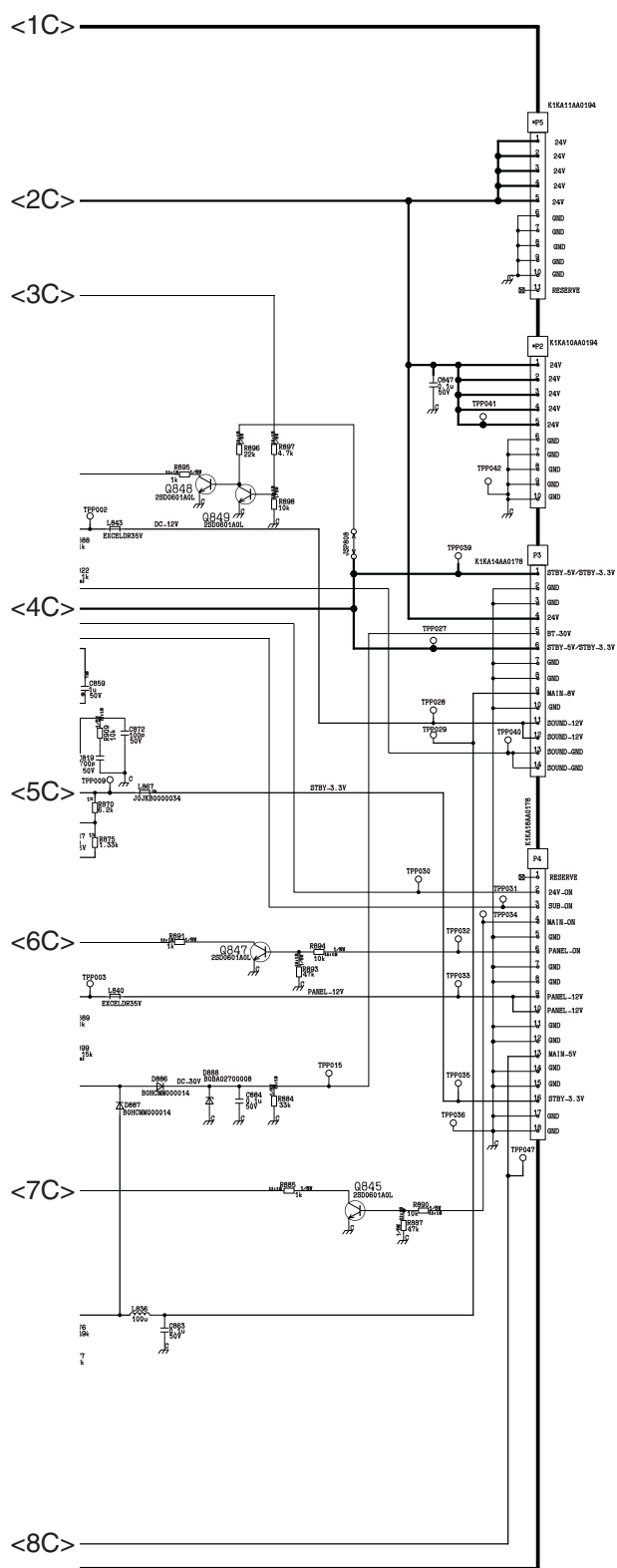
11.5.2. P Board (2 / 4)



11.5.3. P Board (3 / 4)

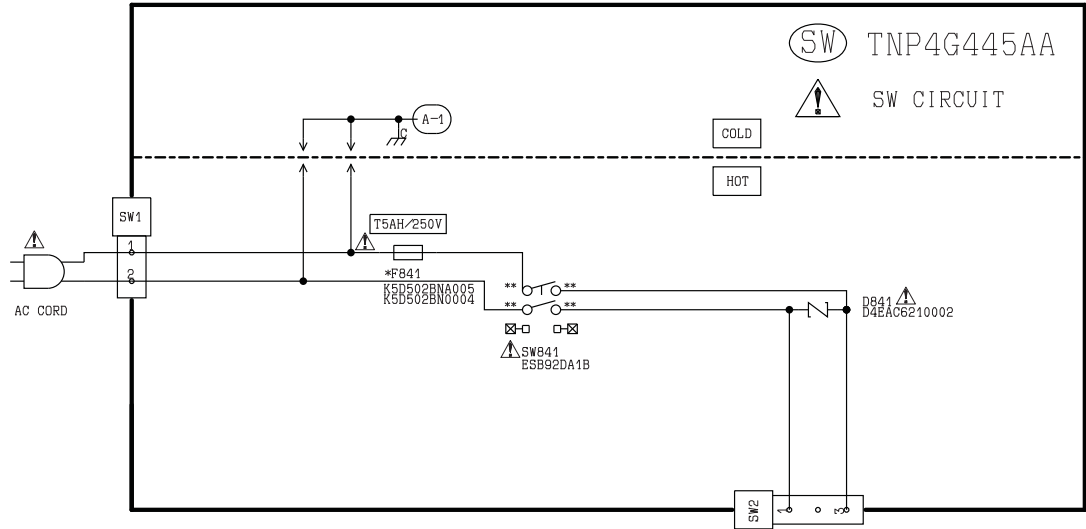


11.5.4. P Board (4 / 4)



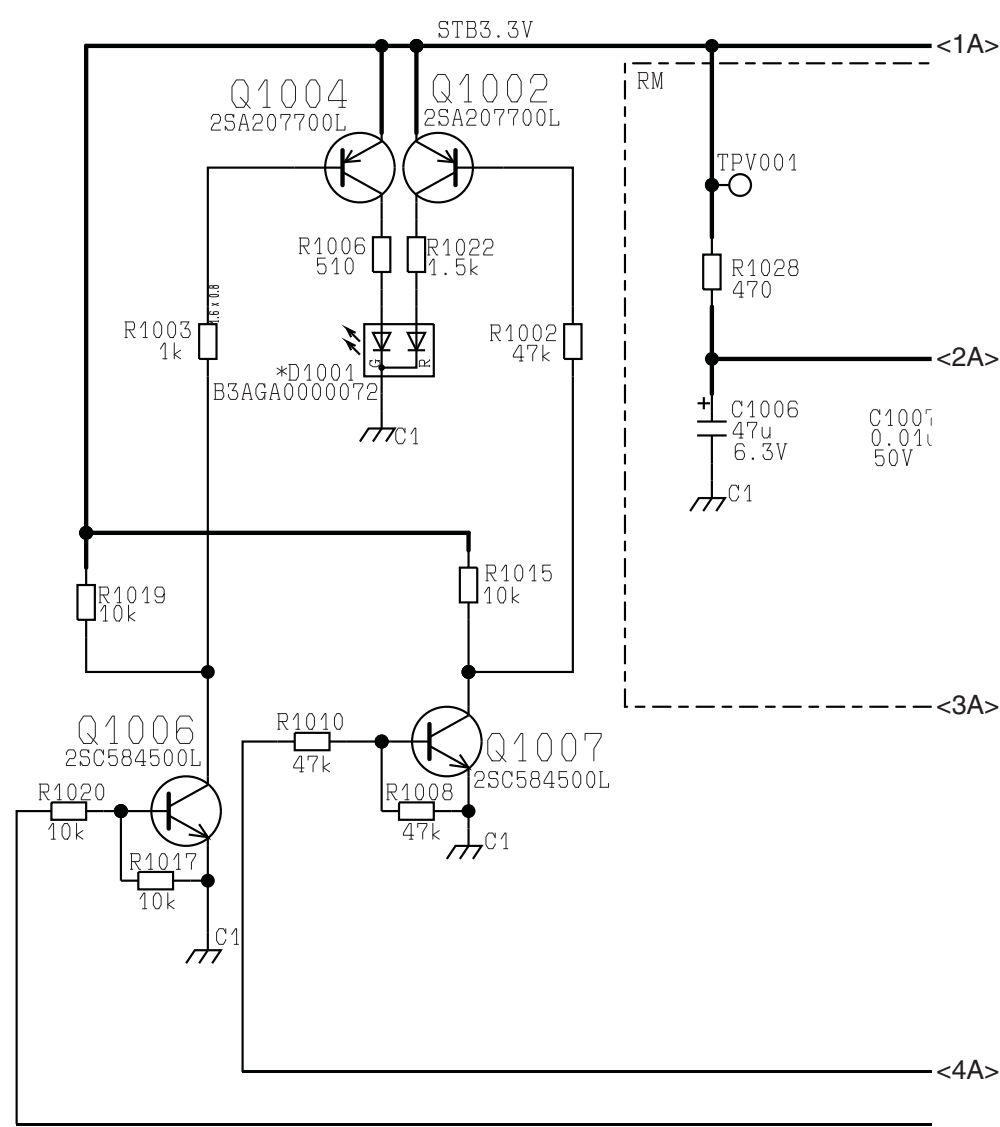
11.6. SW Board

11.6.1. SW Board (1 / 1)



11.7. V Board

11.7.1. V Board (1 / 3)

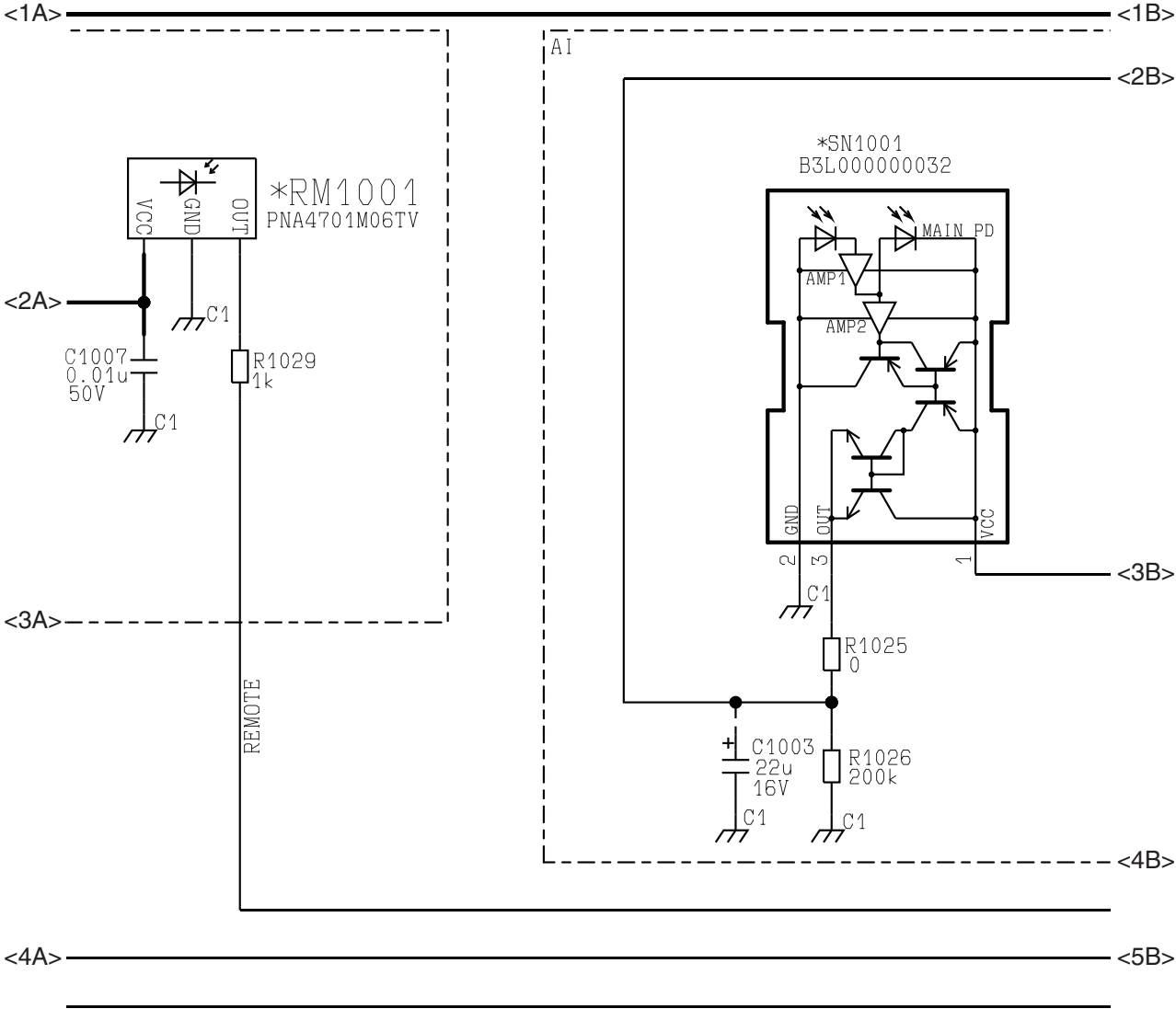


V TNP4G444AA

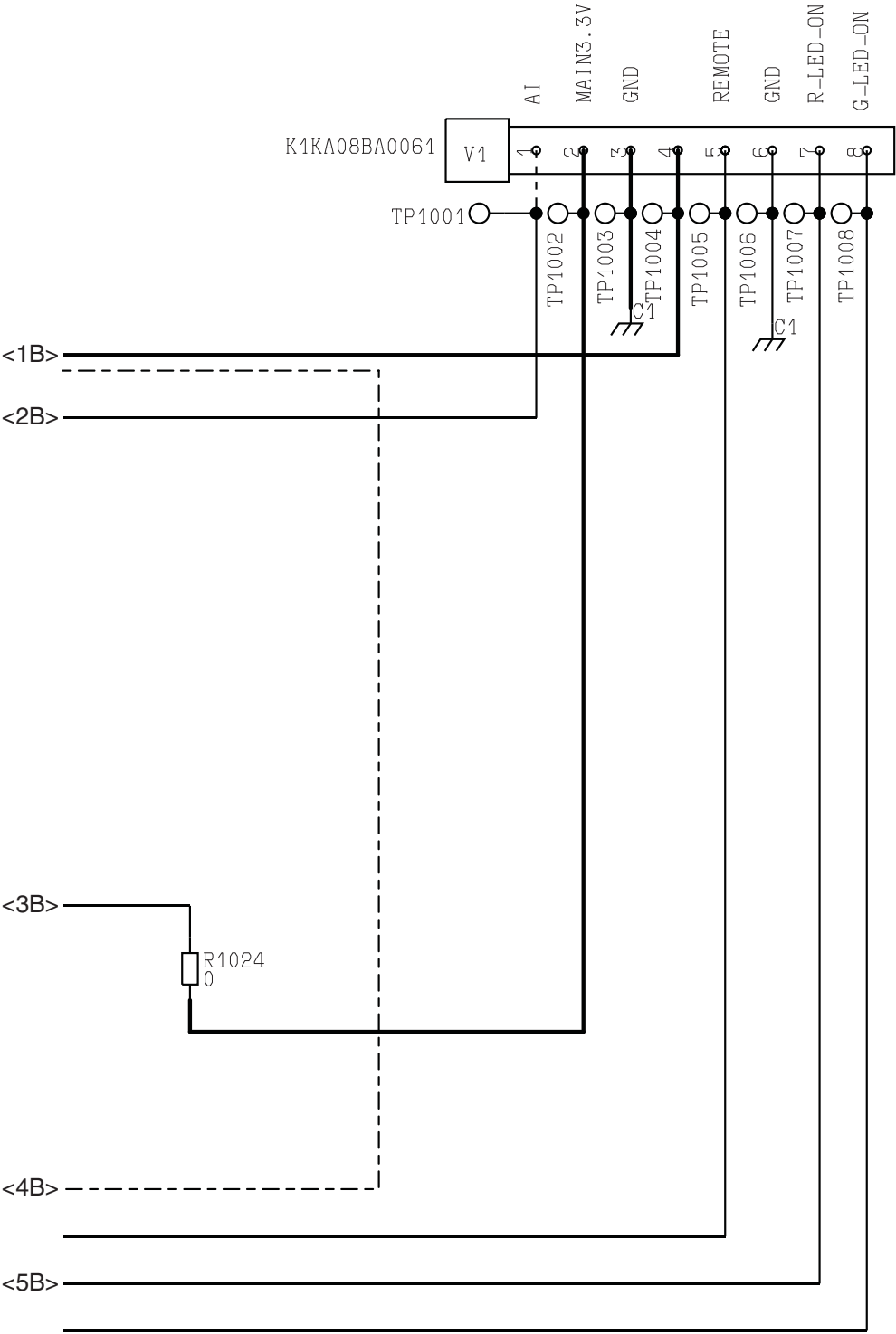


V CIRCUIT

11.7.2. V Board (2 / 3)



11.7.3. V Board (3 / 3)



12 Exploded View and Replacement Parts List

12.1. Exploded View and Mechanical Replacement Parts List

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

12.2. Electrical Replacement Parts List

12.2.1. Replacement Parts List Notes

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 μ F, Z, 50 V

Type Allowance

Type	Allowance
C : Carbon	C : ± 0.25 pF
E : Electrolytic	D : ± 0.5 pF
P : Polyester Polypropylene	F : ± 1 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%

12.2.2. Electrical Replacement Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITORS		
	C1003	ECEA1CK5220	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	EEH1C470P	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	EEH1C470R	E 47UF, 6.3V	
	C1850	F1G1A1040006	C 0.1UF, 10V	
	C1852	EEH1C470P	E 47UF, 16V	
	C1865	ECJ1VF1A105Z	C 1UF, Z, 10V	
	C1866	ECJ1VF1A105Z	C 1UF, Z, 10V	
	C1867	ECJ1VF1A105Z	C 1UF, Z, 10V	
	C1868	ECJ1VF1A105Z	C 1UF, Z, 10V	
	C1869	EEH1C470P	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	EEH1A221P	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	
	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	ECJ1VB1H822K	C 8200PF, K, 50V	
	C1893	ECJ1VB1H104K	C 0.1UF, 50V	
	C1897	ECJ3YB1E106M	C 10UF, 25V	
	C1898	ECJ3YB1E106M	C 10UF, 25V	
	C1903	ECJ3YB1E106M	C 10UF, 25V	
	C1904	EEH1B0G221P	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	EEH1B0G221P	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C1951	ECJ1VB1H104K	C 0.1UF, 50V	
	C1952	ECJ1VB1H104K	C 0.1UF, 50V	
	C1954	EEH1B0J101P	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	EEH1B1V470UF	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	
	C2356	F1H1A1050032	C 1UF, 10V	
	C2357	F1H1H102A219	C 1000UF, 50V	
	C2358	F1H1H102A219	C 1000UF, 50V	
	C2359	F1H1A1050032	C 1UF, 10V	
	C3056	ECJ3YB1C105K	C 1UF, 16V	
	C3058	ECJ3YB1C105K	C 1UF, 16V	
	C3064	EEH1B0J331UP	E 330UF, 6.3V	
	C3065	ECJ1VB1C104K	C 0.1UF, K, 16V	
	C3067	F1J0J1060004	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	EEH1B1C101UP	E 100UF, 16V	
	C3203	ECJ1VB1C224K	C 0.22UF, 16V	
	C3204	EEH1B1C470P	E 47UF, 16V	
	C3863	ECJ1VF1A105Z	C 1UF, Z, 10V	
	C3870	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
	C3874	ECJ1VB1C104K	C 0.1UF, K, 16V	
	C3889	F1H1H103A013	C 0.01UF, 50V	
	C3902	EEH1B0J101P	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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 4.7UF, 16V	
	C4071	ECJ1VC1H220J	C 22PF, J, 50V	
	C4072	ECJ1VC1H220J	C 22PF, J, 50V	
	C4074	FLJ0J1060004	C 10UF, 6.3V	
	C4075	FLJ0J1060004	C 10UF, 6.3V	
	C4076	FLJ0J1060004	C 10UF, 6.3V	
	C4077	FLJ0J1060004	C 10UF, 6.3V	
	C4078	FLJ0J1060004	C 10UF, 6.3V	
	C4079	FLJ0J1060004	C 10UF, 6.3V	
	C4080	FLJ0J1060004	C 10UF, 6.3V	
	C4081	FLJ0J1060004	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C4122	ECJ1VF1C104Z	C 0.1UF, Z, 16V	
	C4126	ECJ1VB1C104K	C 0.1UF, K, 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	FLH1H101A971	C 100UF, 50V	
	C4407	EEH1B1C100R	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	FLH1H101A971	C 100UF, 50V	
	C4456	ECJ1VB1C104K	C 0.1UF, K, 16V	
	C4457	EEH1B1C100R	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	EEH1B0J470R	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	FLH1H221A971	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	FLG1A1040006	C 0.1UF, 10V	
	C5061	FLG1A1040006	C 0.1UF, 10V	
	C800	ECKCNA101MB7	C 100PF, M,	
⚠	C801	F0CAF224A066	P 0.22UF, 300V	
⚠	C803	F0CAF224A066	P 0.22UF, 300V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	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	F1H1H681A971	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	
	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	F2A1C1210014	ELECTRONIC CAPACITOR	
	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		

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	B0EBNT000007	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	B0JCPG000005	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	
	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	TVR4GAS800	EEPROM IC	
	IC1803	C0EBF0000354	IC, RESET	
	IC1804	C0CBYE000001	IC	
	IC1807	C0DBEGE000002	IC	
	IC1808	C0DBAZG000048	IC	
	IC1809	C0DBAYY00428	IC	
	IC1810	C0DBEYY00084	IC	
	IC1811	C0DBEYG000002	IC REGULATOR	
	IC1812	C0DBEGE000002	IC	
	IC2000	C1AB00002916	IC	
	IC2350	C1BB00000947	IC	
	IC4001	TVR4G60	ROM VERSION IC	
	IC4002	C3ABRY000038	IC	
	IC4003	C3ABRY000038	IC	
	IC4004	C0DBEFH000002	IC	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	IC5001	TVR4GAS797	IC	
	IC5002	TVR4GAS798	IC	
	IC5003	C3EBDC000067	IC	
	IC5004	C3EBDC000067	IC	
	IC800	C0DBBZG000004	IC	
⚠	IC801	C5HAZZZ00011	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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	EXCELD35V	CORE	
	L832	J0JKA0000038	BEAD CORE	
	L836	G0C101K00023	COIL	
	L837	J0JKA0000038	BEAD CORE	
	L839	TLPP095	CHOKE COIL	
	L840	EXCELD35V	CORE	
	L843	EXCELD35V	CORE	
	L844	G0C101K00041	COIL	
	L865	G0A220ZA0033	COIL	
	L867	J0JKB0000034	EMI FILTER	
	L868	EXCELD35V	CORE	
	L869	G0A101ZA0034	COIL	
	L870	G0A101ZA0034	COIL	
	L871	TLPP095	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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	Q841	B1CGRD000002	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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	D0GD472JA017	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 6340HM, 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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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 15KOHM, 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	
	R3016	ERJ6GEY0R00	M 0OHM, J, 1/10W	
	R3019	ERJ6ENF75R0	M 75OHM, 1/10W	
	R3020	ERJ3GEYJ151	M 150OHM, J, 1/16W	
	R3021	ERJ3GEYJ151	M 150OHM, 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	ERJ3GEYJ333	M 33KOHM, 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	
	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	
	R3895	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
	R3896	ERJ3GEYJ332	M 3.3KOHM,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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	R4072	ERJ3GEYJ105	M 1MOHM,J,1/16W	
	R4073	ERJ3GEYJ105	M 1MOHM,J,1/16W	
	R4074	ERJ3GEYJ103	M 10KOHM,J,1/16W	
	R4075	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
	R4076	ERJ3GEYJ103	M 10KOHM,J,1/16W	
	R4077	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4078	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4079	ERJ3GEYJ103	M 10KOHM,J,1/16W	
	R4080	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4081	ERJ3GEYJ105	M 1MOHM,J,1/16W	
	R4082	ERJ3GEYJ105	M 1MOHM,J,1/16W	
	R4083	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4084	ERJ3GEYJ102	M 1KOHM,J,1/16W	
	R4085	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4086	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4087	ERJ3GEYJ104	M 100KOHM,J,1/16W	
	R4088	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4089	ERJ3GEYJ102	M 1KOHM,J,1/16W	
	R4090	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4091	ERJ6GEY0R00	M 0OHM,J,1/10W	
	R4092	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4093	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R4094	ERJ3GEY0R00	M 0OHM,J,1/16W	
	R4095	ERJ3GEY0R00	M 0OHM,J,1/16W	
	R4096	ERJ3GEY0R00	M 0OHM,J,1/16W	
	R4097	ERJ3GEY0R00	M 0OHM,J,1/16W	
	R4098	ERJ3GEYJ473	M 47KOHM,J,1/16W	
	R4104	ERJ3GEYJ102	M 1KOHM,J,1/16W	
	R4116	ERJ3GEYJ101	M 100OHM,J,1/16W	

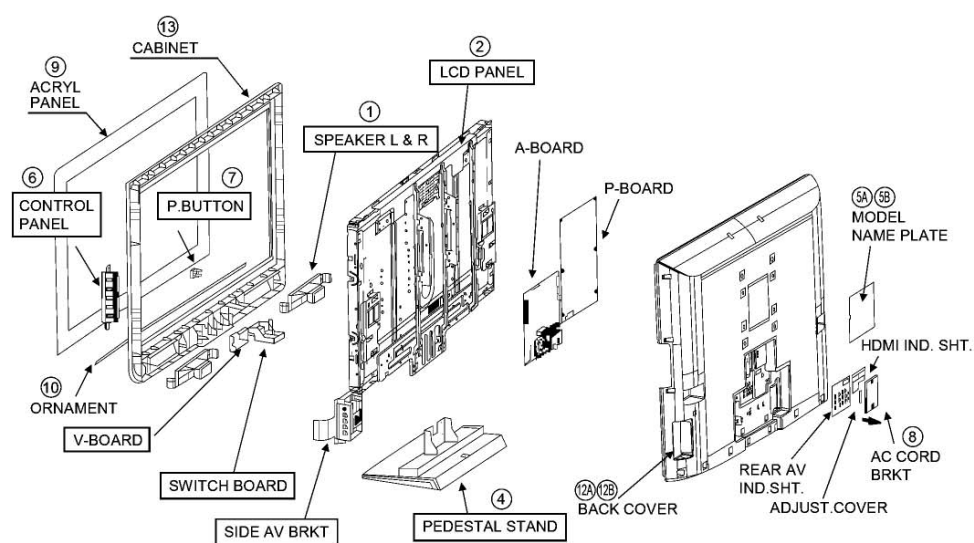
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4502	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
	R4503	ERJ3GEYJ101	M 100OHM,J,1/16W	
	R5003	ERJ3GEYJ102	M 1KOHM,J,1/16W	
	R5004	ERJ3GEYJ102	M 1KOHM,J,1/16W	
	R5005	ERJ3GEYJ103	M 10KOHM,J,1/16W	
	R5006	ERJ3GEYJ220	M 22OHM,J,1/16W	
	R5007	ERJ3GEYJ220	M 22OHM,J,1/16W	
	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	
	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	ERG1SJ223E	M 2.2KOHM,J,1W	
	R836	ERG1SJ223E	M 2.2KOHM,J,1W	
	R837	ERG1SJ103E	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	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	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	
	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	ETS35LZ176AD	SWITCHING TRANS	
⚠	T802	ETS32CZ129AD	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	

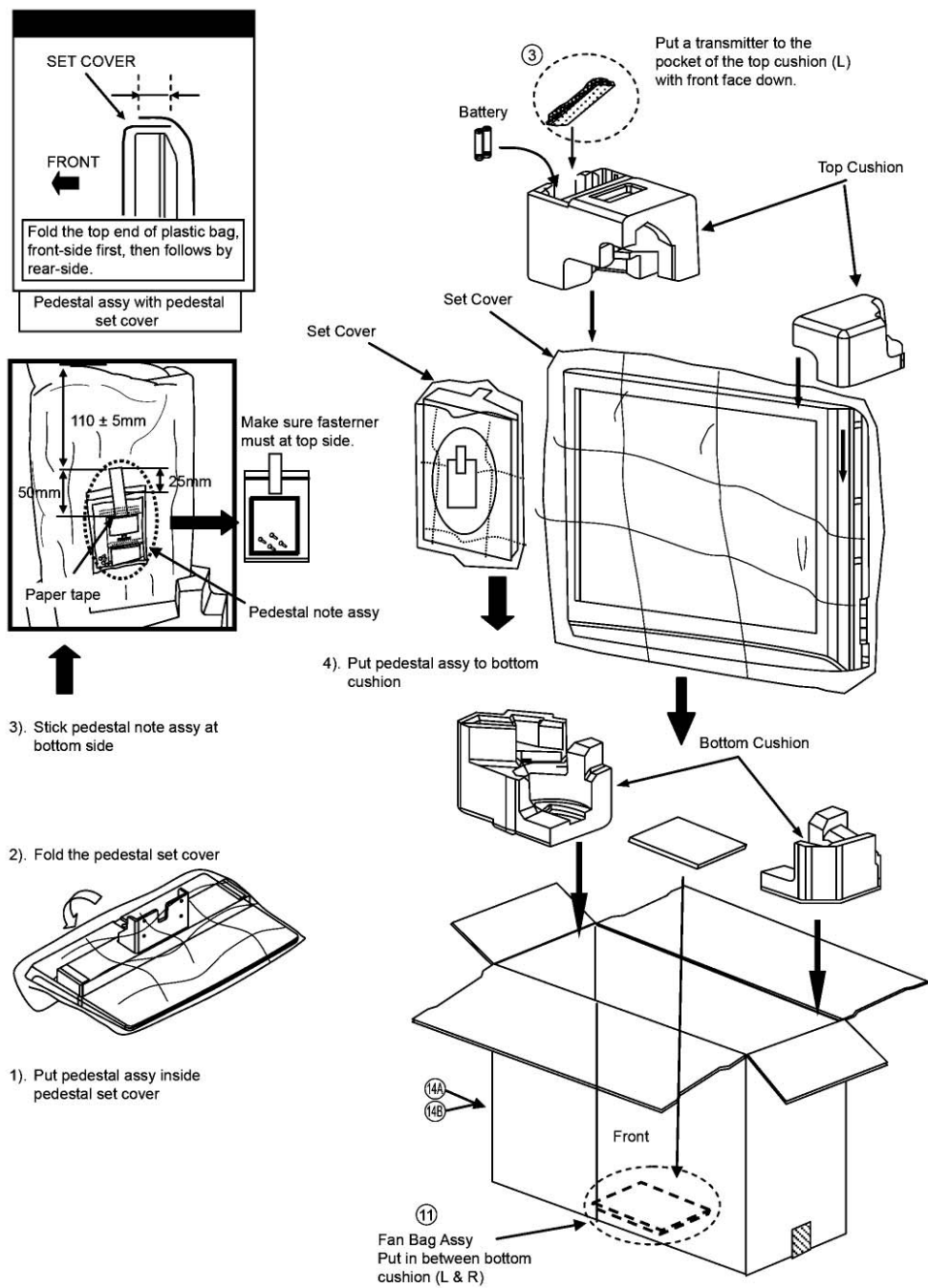
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	A9	K1KA08AA0714	CONNECTOR	
⚠	F841	K5D502BNA005	FUSE	
	FL4000	EXC24CE900U	NOISE FILTER	
	FL4001	EXC24CE900U	NOISE FILTER	
	FL4002	EXC24CE900U	NOISE FILTER	
	FL4003	EXC24CE900U	NOISE FILTER	
	FL4004	EXC24CE900U	NOISE FILTER	
	FL4005	EXC24CE900U	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 00HM, J, 1/8W	
	JA2	ERJ8GEY0R00	M 00HM, J, 1/8W	
	JA29	ERJ8GEY0R00	M 00HM, J, 1/8W	
	JA3	ERJ8GEY0R00	M 00HM, J, 1/8W	
	JA6	ERJ8GEY0R00	M 00HM, J, 1/8W	
	JA8	ERJ8GEY0R00	M 00HM, 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 00HM, J, 1/10W	
	JS3502	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JS3503	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1801	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1829	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1836	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1837	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1839	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1843	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1845	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1847	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1853	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1854	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1855	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1920	ERJ3GEY0R00	M 00HM, J, 1/16W	
	JSA1921	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA1922	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA2010	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA2011	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA2012	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA2013	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA2304	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA240	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA241	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA242	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA243	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA250	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA251	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA258	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSA259	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP808	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP814	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP820	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP821	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP822	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP823	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP824	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP825	ERJ6GEY0R00	M 00HM, J, 1/10W	
	JSP854	ERJ6GEY0R00	M 00HM, J, 1/10W	
	K2	K1KA03BA0055	CONNECTOR	
⚠	LF801	G0B123H00005	LINE FILTER	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	LF803	G0B123H00005	LINE FILTER	
	P1	K1KA02B00295	CONNECTOR	
	P2	K1KA10AA0194	CONNECTOR	
	P3	K1KA14AA0178	CONNECTOR	
	P4	K1KA18AA0178	CONNECTOR	
	P5	K1KA11AA0194	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	H0J270500130	CRYSTAL OSCILLATOR	

Model No. : TX-42LZ80X/Y Parts Location



Model No. : TX-42LZ80X/Y Packing Exploded View



Model No. : TX-42LZ80X/Y Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	EAS16S07B	SPEAKER		
		J0KF00000018	FERRITE CORE		
		J0KG00000139	CORE CLAMPER		
		K1PY51Y00028	FFC LVDS HARNESS		
		K2CT2YY00009	AC CORD		
		K2CQ2YY00009	AC CORD (ONLY FOR TX-42LZ80Y)		
	2	L5EDDAT00001	LCD PANEL		
	3	N2QAKB000065	REMOTE CONTROL		
	4	TBL4GA0016	PEDESTAL		
	5A	TBM4GC138	MODEL NAME PLATE		
	5B	TBM4GC139	MODEL NAME PLATE (ONLY FOR TX-42LZ80Y)		
	6	TBX4GA00202	CONTROL BUTTON		
	7	TBX4GA00302	POWER BUTTON		
		TKK4G8611	COVER		
		TKK4GC5001-1	LED PANEL		
	8	TKP4G11745	AC CORD BRACKET		
		TKP4GA00201A	CONTROL PANEL BRACKET		
		TKP4GA00301	G PCB BRACKET		
	9	TKP4GA02301	ACRYLIC PANEL		
	10	TKR4GA01501	ORNAMENT PANEL		
	NLA	TZT/A10NMN	A PRINT		
	NLA	TNP4G440AC	P BOARD		
	NLA	TNP4G442AA	K2 BOARD		
	NLA	TNP4G443AA	G BOARD		
	NLA	TNP4G444AA	V BOARD		
	NLA	TNP4G445AA	SW BOARD		
		TPD4GA0086	TOP CUSHION		
		TPD4GA0087	BOTTOM CUSHION		
		TPE4G14046	SET COVER		
	11	TQZ4GB064	FAN BAG		
	12A	TTU4GA0118	BACK COVER		
	12B	TTU4GA0119	BACK COVER (ONLY FOR TX-42LZ80Y)		
	13	TTY4GA0056	CABINET		
	14A	TXFPC010NMN	PACKING CASE		
	14B	TXFPC010NQQ	PACKING CASE (ONLY FOR TX-42LZ80Y)		
		TXFPE01RLTU	CLEANING CLOTH		
		TXFQZ010NHE	PEDESTAL NOTE		