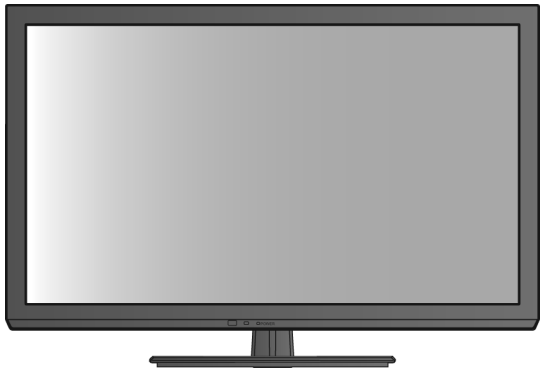
ORDER NO. MTV1202010CE

Service Manual

LCD TV



Model No. TC-L32X5

Chassis: KM15

Destination: USA

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 100 Mohm and over.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

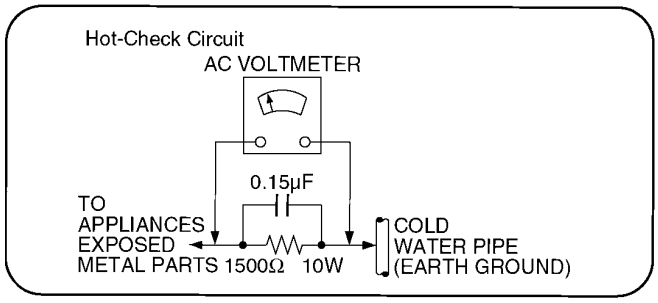


Figure 1

2 Warning

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   Caution
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

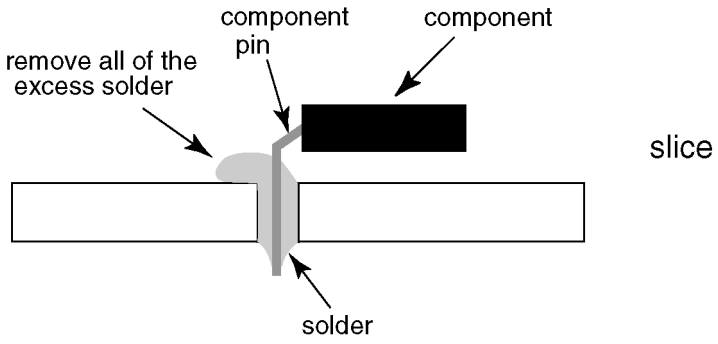
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

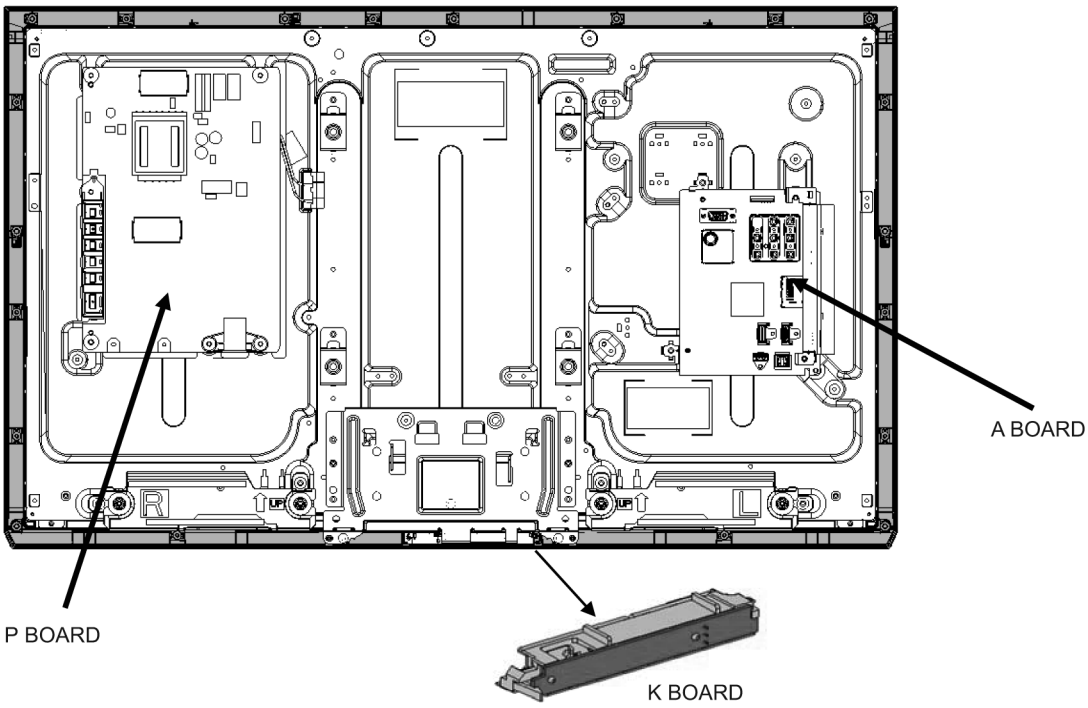
Caution

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



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	AVSW, TUN, EEP, SPI, MTK IC	Repairable
P BOARD	Power Supply and LED Driver	Repairable
K BOARD	Remote, LED, Luminunce Sensor	Repairable

4 Specifications

Power Source	AC 110-127 V, 60 Hz		
Power Consumption			
Rated Power Consumption	56 W		
Standby condition	0.25 W		
Display panel			
Aspect Ratio	16:9		
Visible screen size	32” class (31.5 inches measured diagonally)		
(W × H × Diagonal)	27.5” × 15.4” × 31.5” (698 mm × 392 mm × 800 mm)		
Number of pixels	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]		
Sound			
Speaker	1-way 2 bottom SP System		
Audio Output	20 W [10 W + 10 W], (10% THD)		
PC signals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
Channel Capability-ATSC/NTSC (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135		
Operating Conditions	Temperature : 32°F - 95°F (0°C - 35°C) Humidity : 20 % - 80 % RH (non-condensing)		
Connection Terminals			
VIDEO IN	VIDEO:	RCA PIN Type × 1	1.0V [p-p] (75 Ω)
	AUDIO L - R	RCA PIN Type × 2	0.5V [rms]
COMPONENT IN	Y:	1.0 V [p-p] (including synchronization)	
	P_B, P_R:	± 0.35 V [p-p]	
	AUDIO L - R:	RCA PIN Type × 2	0.5 V [rms]
HDMI 1-3	TYPE A Connectors × 3 • This TV supports ‘HDAVI Control 5’ function.		
USB	USB 2.0 Type A connector × 1 (DC5V MAX500mA)		
PC	D-SUB 15 PIN:	R, G, B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0-5.0 V [p-p] (high impedance)	
Card slot	SD Card slot × 1		
DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
FEATURES	3D Y/C FILTER	CLOSED CAPTION	
	V-Chip	Vesa compatible	
	VIERA IMAGE VIEWER	Media player	
Dimensions (W x H x D)			
Including TV Stand	30.0” × 20.4” × 9.1” (761 mm × 517 mm × 230 mm)		
TV Set only	30.0” × 18.3” × 2.1” (779 mm × 463 mm × 53 mm)		
Mass			
Including TV stand	22.1lb. (10.0 kg) NET		
TV Set only	17.7 lb. (8.0 kg) NET		

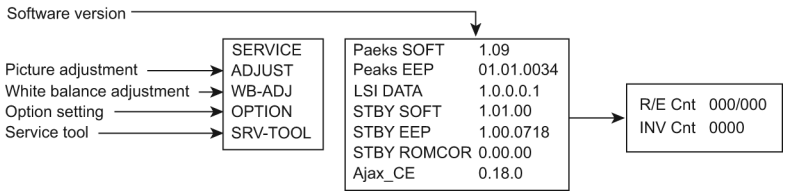
Note

• Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Service Mode

5.1. How to enter into Service Mode

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



5.1.1. Contents of adjustment mode

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

Main item	Sub item	Sample Data
ADJUST	CONTRAST	000
	COLOR	59
	TINT	FE
	SUB-BRT	800
	BACKLGT	20D
	B-Y-G	40
	R-Y-A	0
	VCOM	189
WB-ADJ	R-GAIN	75
	G-GAIN	80
	B-GAIN	65
	R-CENT	80
	G-CENT	80
	B-CENT	9B
OPTION	Boot	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	FC7
	EDID-CLK	HIGH
SRV-TOOL		00

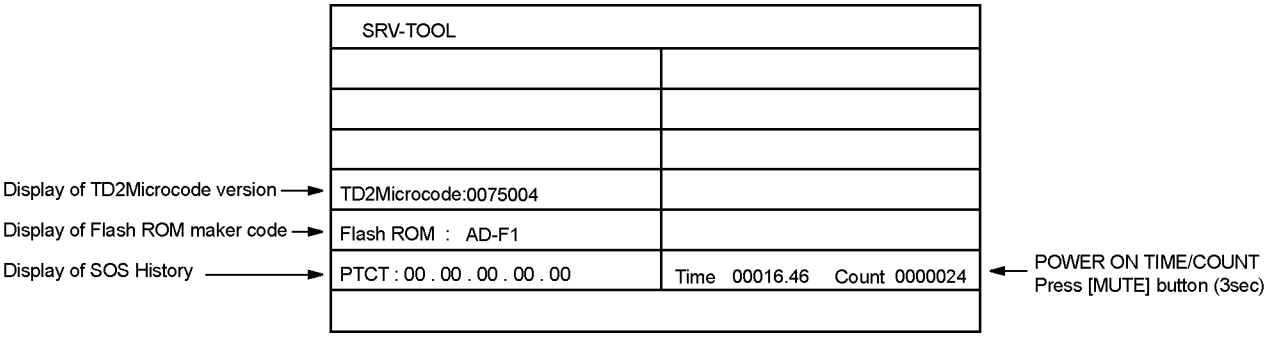
5.1.2. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

5.2. SRV-TOOL

5.2.1. How to access

1. Select [SRV-TOOL] in Service Mode.
2. Press [OK] button on the remote control.



5.2.2. Display of SOS History

SOS History (Number of LED blinking) indication.
From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.
This indication except 2nd and 1st occurrence after shipment will be cleared by [Self-check indication and forced to factory shipment setting].

5.2.3. POWER ON TIME/COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3sec.
Time : Cumulative power on time, indicated hour : minute by decimal
Count : Number of ON times by decimal
Note : This indication will not be cleared by either of the self-checks or any other command.

5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.2.5. Self Check Mode

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

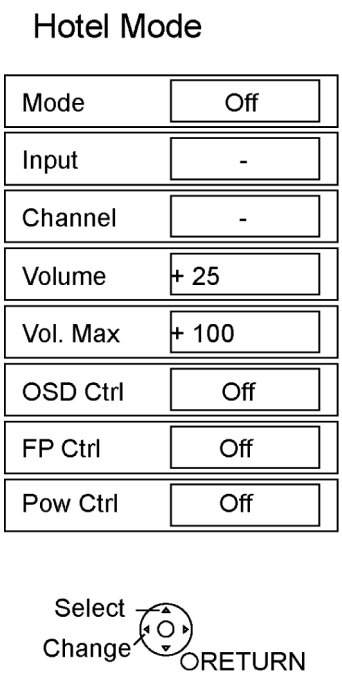
5.2.6. Hotel Mode Adjustment

1. Press the ‘VOLUME DOWN’ button on the TV panel and simultaneously press the INPUT button on the remote control 3 times to enter Hotel Mode.
2. Set Hotel mode ‘on/off’, then press ‘EXIT’ to come out.

5.2.7. Hotel Mode

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

   Then, the Hotel mode setup menu is displayed.



3. To exit the Hotel mode setup menu
   Disconnect AC power cord from wall outlet.
4. Explain the Hotel mode setup menu

Item	Function
Mode	Select hotel mode off/on
Input	Select input signal modes. Set the input, when each time power is switched on. Selection : -/RF/HDMI1/HDMI2/HDMI3/Component/ Video/PC • Off: give priority to a last memory.
Channel	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection : Any channel number or [-]. [-] means the channel when turns off.
Volume	Adjust the volume when each time power is switched on. Range : 0 to 100
Vol. Max	Adjust maximum volume. Range : 0 to 100
OSD Ctrl	Restrict the OSD. Selection : OFF/PATTERN1 • OFF: No restriction • PATTERN1: restriction
FP Ctrl	Select front key conditions. Selection : OFF/PATTERN1/ALL • OFF: altogether valid. • PATTERN1: only input key is valid. • ALL: altogether invalid.
Pow Ctrl	Select POWER-ON/OFF condition when AC power cord is disconnected and then connected. OFF: The same condition when AC power cord is disconnected. ON: Forced power ON condition.

6 Troubleshooting Guide

Use the self-check function to test the unit.

1. Checking the IIC bus lines
2. Power LED Blinking timing

6.1. Check of the IIC bus lines

6.1.1. How to access

Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

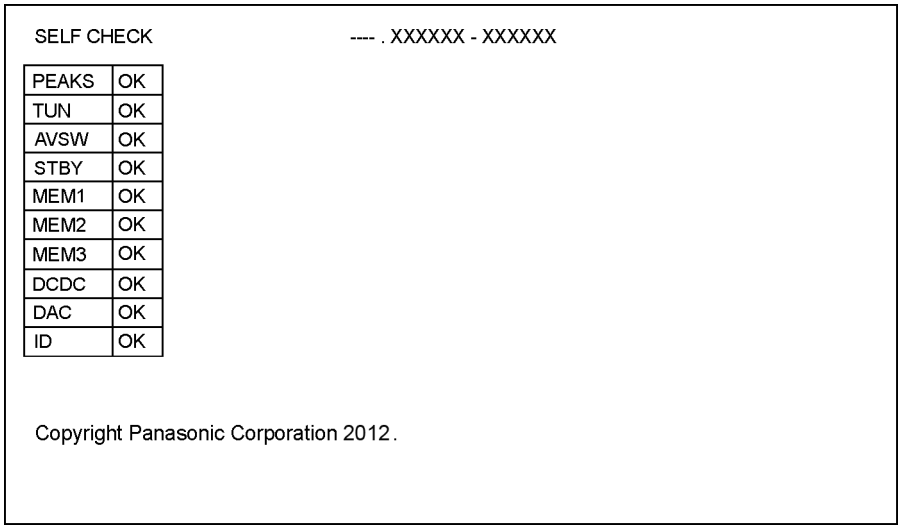
Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

6.1.2. Exit

Disconnect the AC cord from wall outlet.

6.1.3. Screen display



6.2. Power LED Blinking timing chart

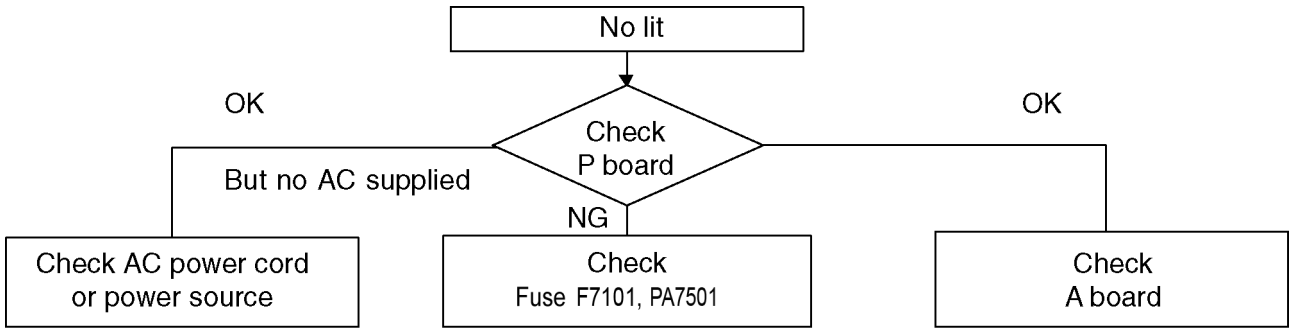
1. Subject
   Information of LED Flashing timing chart.
2. Contents
   When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the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

Priority	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	POWER_SOS	SOS from POWER Curcuit	3
3	SOUND_SOS	SOS from audio AMP	9

6.3. No Power

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

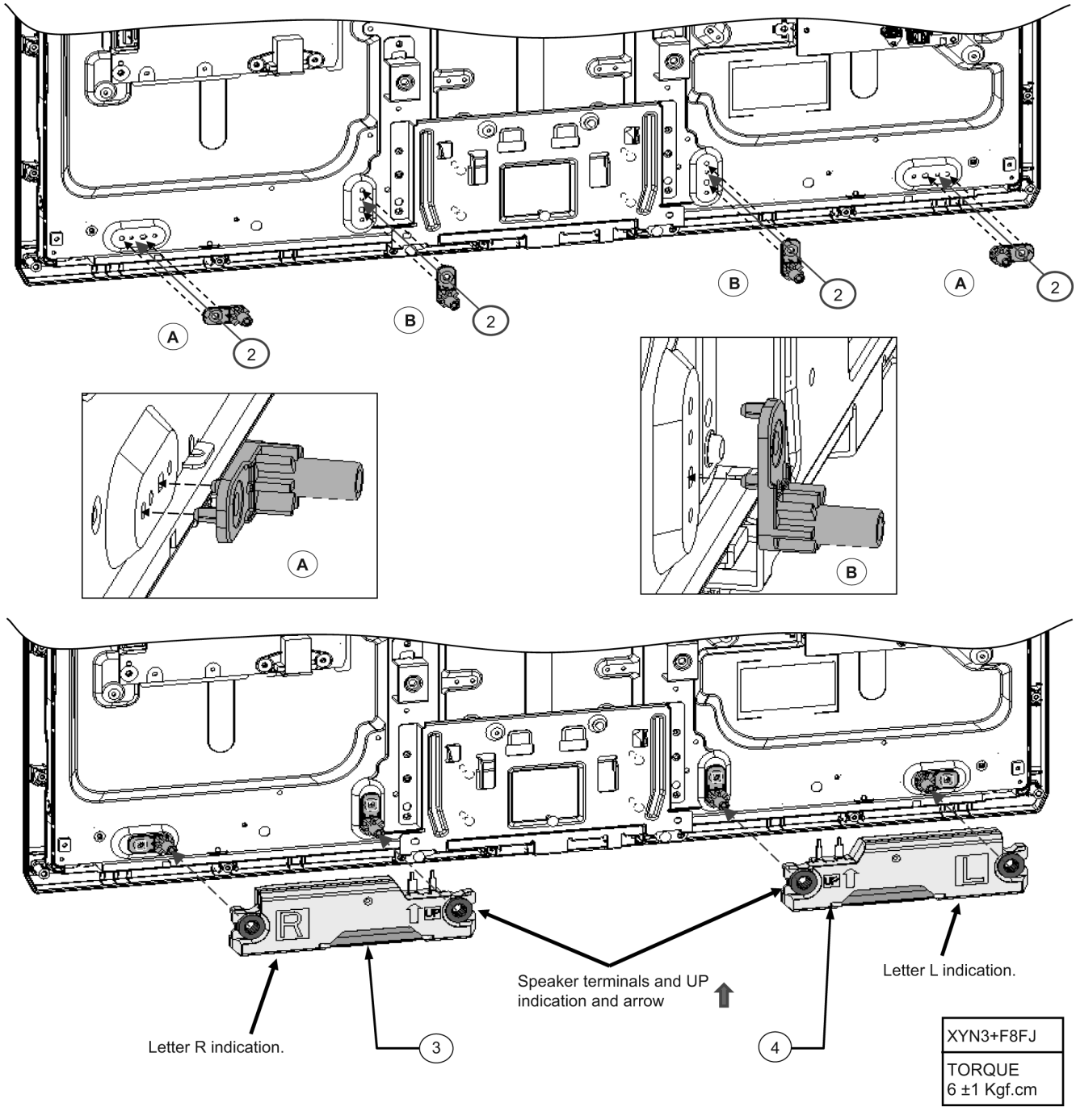
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Speaker Assembly

1. Fit the speaker brackets, inserting the bracket pins into the holes in the panel.
2. Screw in the positions indicated.
3. Insert the speaker in the speaker brackets.



No.	Part Num.	Quant.	Description
1	TKX5ZA02301	4	SPEAKER BRACKET
2	XYN3+F8FJ	4	M3 × 8 SCREW
3	L0EYAA000007	1	SPEAKER UNIT R
4	L0EYAA000006	1	SPEAKER UNIT L

7.2. Panel Assembly

1. Assemble the panel to the cabinet, first fitting in the upper part and then sliding in the lower part (Figure 1).
2. Fit 2 gaskets at the bottom of the cabinet, make sure the gasket cut is facing the right direction as indicated in Figure 2.

Figure 1

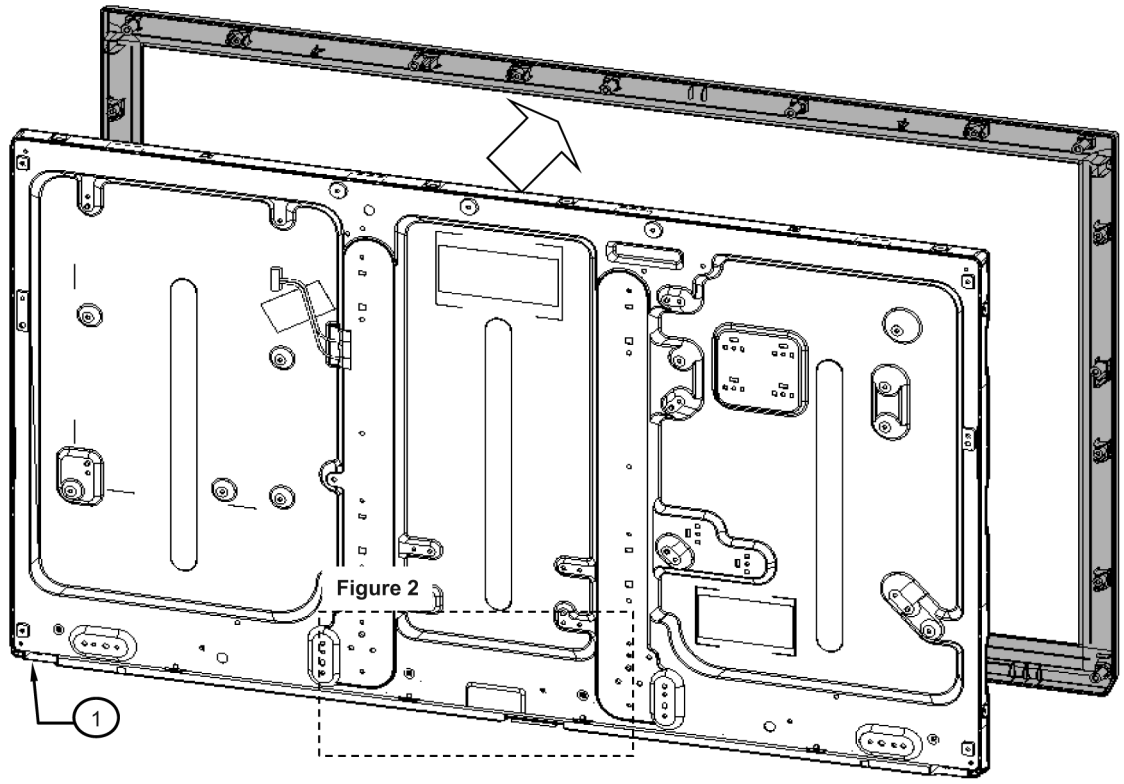
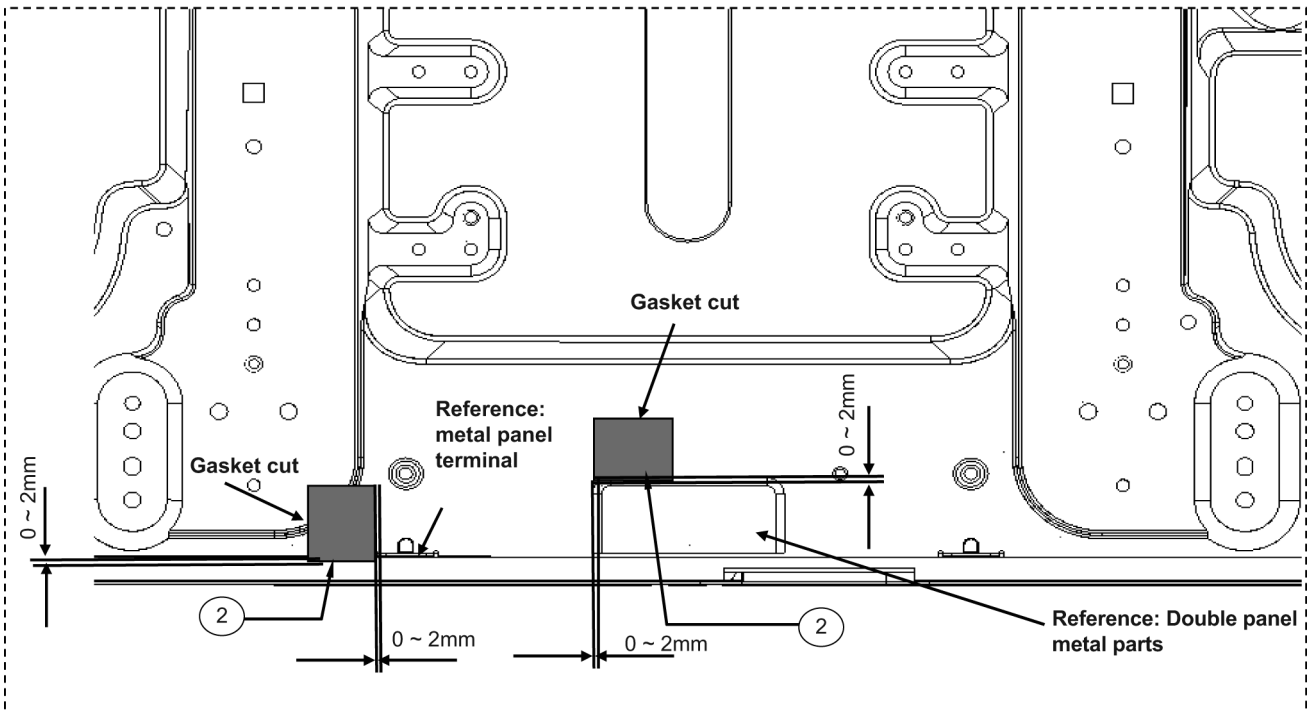


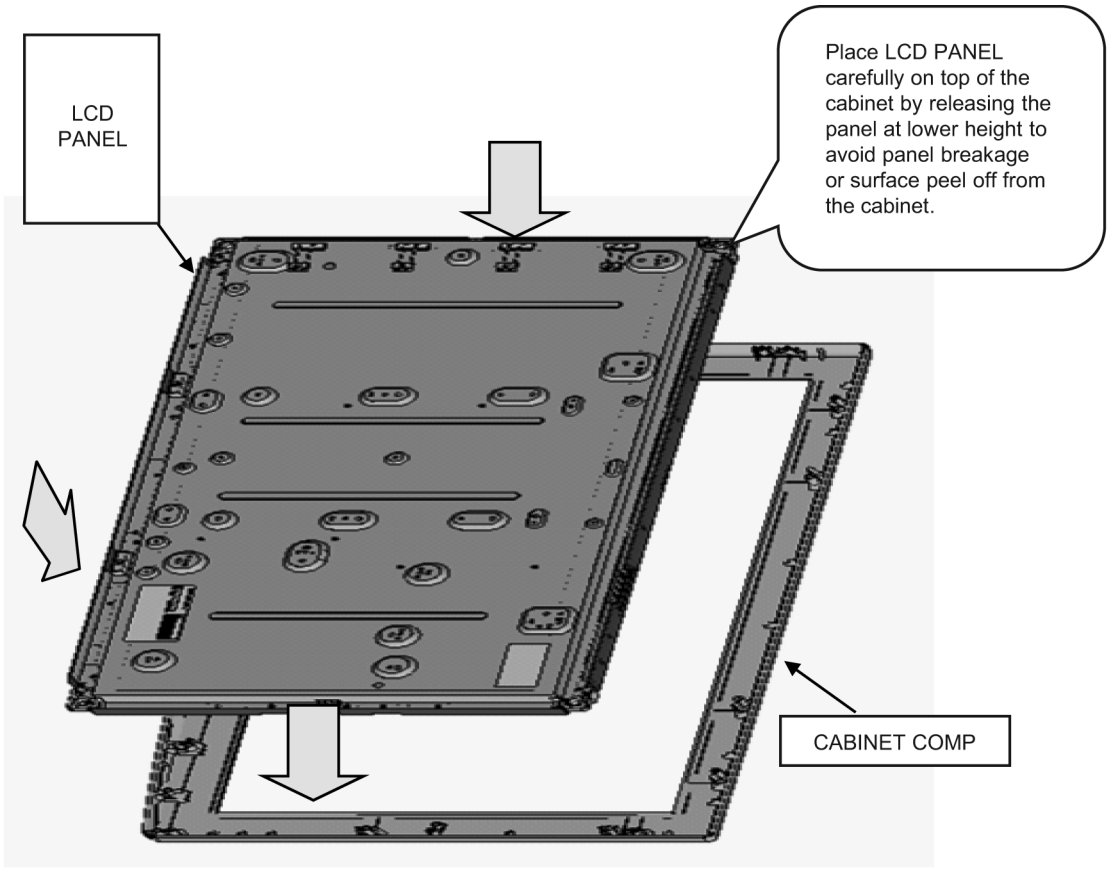
Figure 2

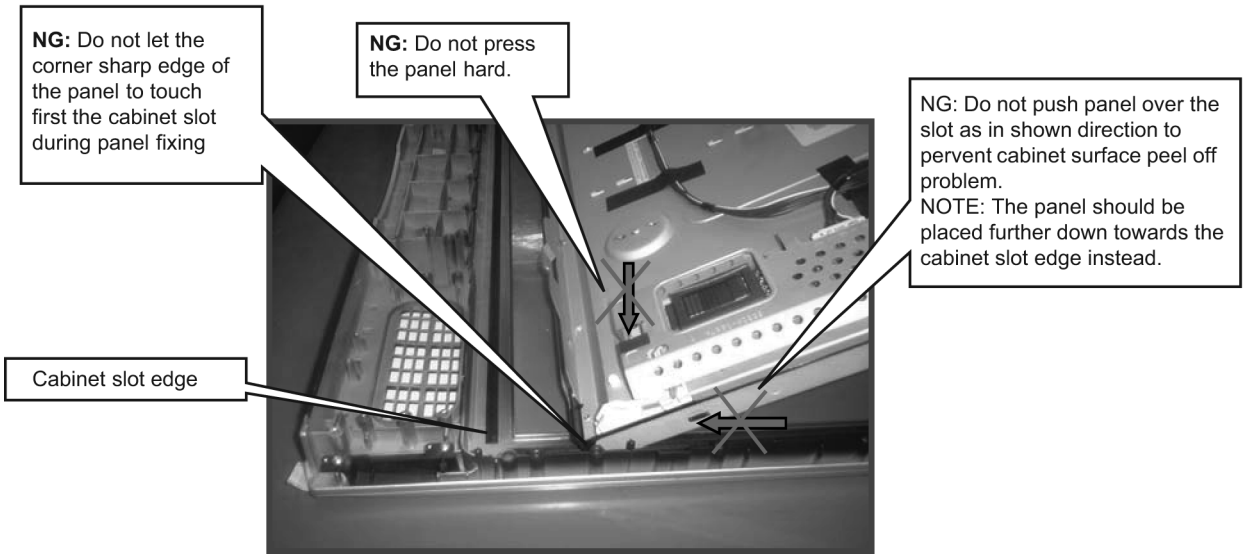


No.	Part Num.	Quant.	Description
1	VVX32H125G00	1	LCD PANEL
2	TEWB644	2	GASKET (T18*W18*L15)

7.3. LCD Panel Fixing & Handling Method

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



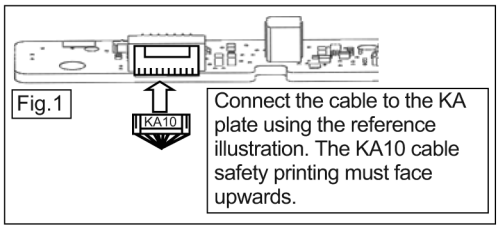


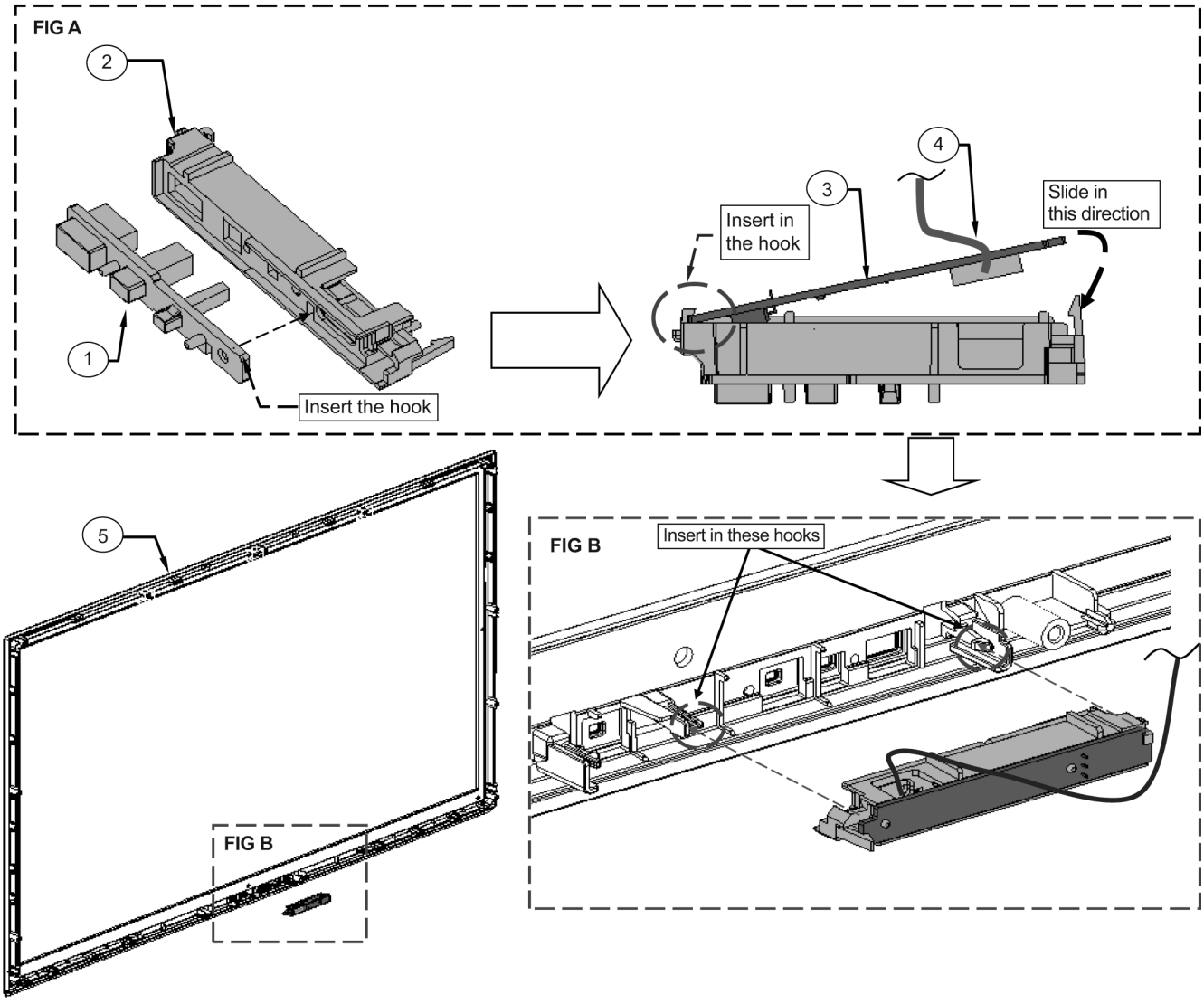
Other general precautions

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

7.4. LED Panel Assembly

1. Prepare the LED panel as indicated, Fig A.
2. Assemble the prepared LED as shown in Fig B.

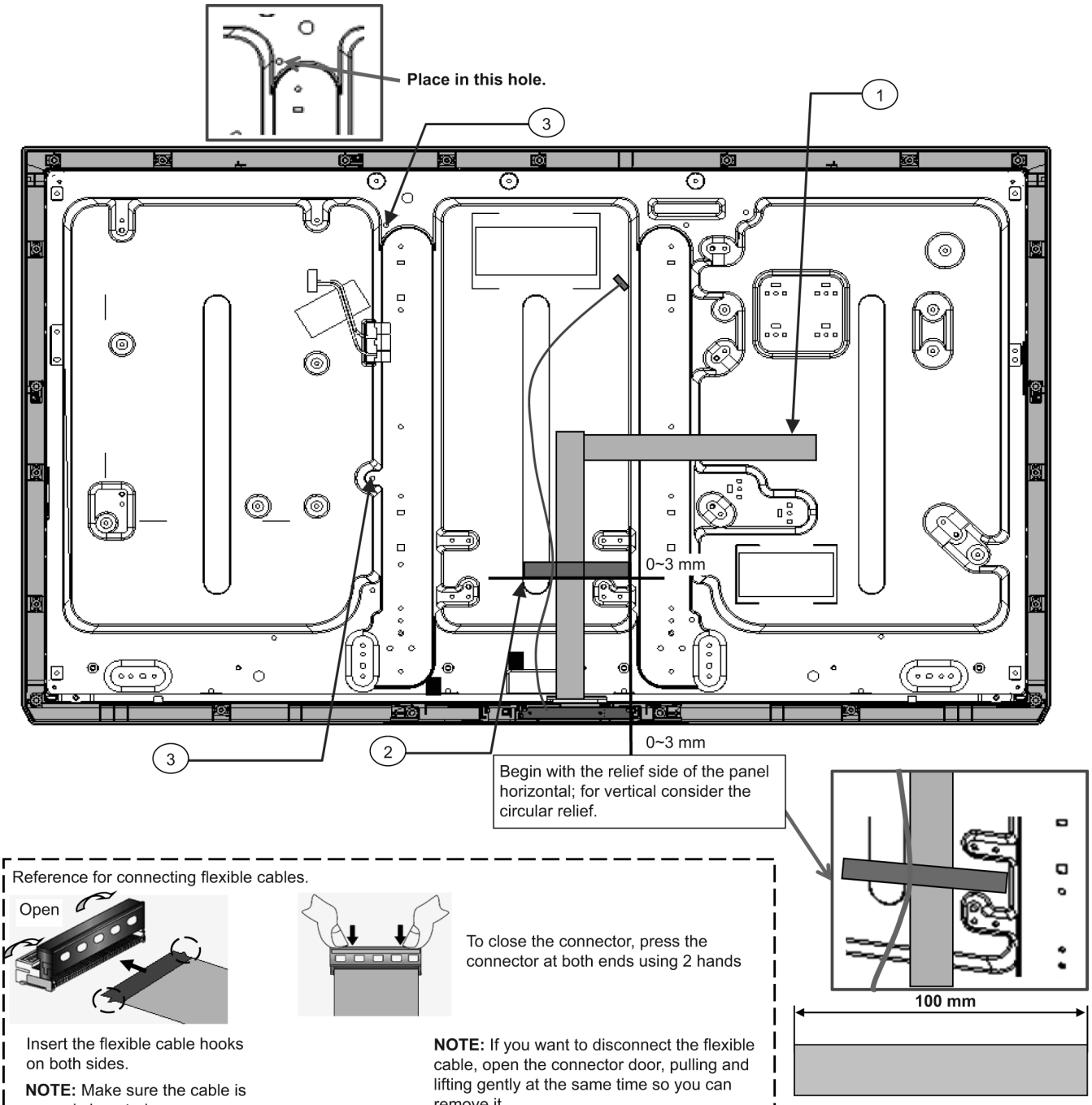




No.	Part Num.	Quant.	Description
1	TKK5ZC50201	1	LED PANEL
2	TKK5ZC50141	1	LED PANEL BRKT
3	TXN/K1RZUU	1	ASSY, K PANEL COMPLETE PAVCAP
4	TXJA10RZUU	1	WIRE (A10-K10)
5	TXFKY5Z0256	1	ASSY, CABINET

7.5. Placement of LVDS Cable

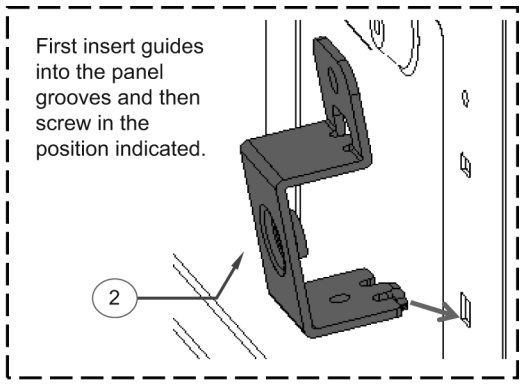
1. Connect the LVDS cable to the panel.
2. Put the A10-K10 cable in the right direction, placing the aluminium tape in the position indicated. Press the tape so it is properly stuck down.
3. Assemble 2 clampers in the positions indicated.

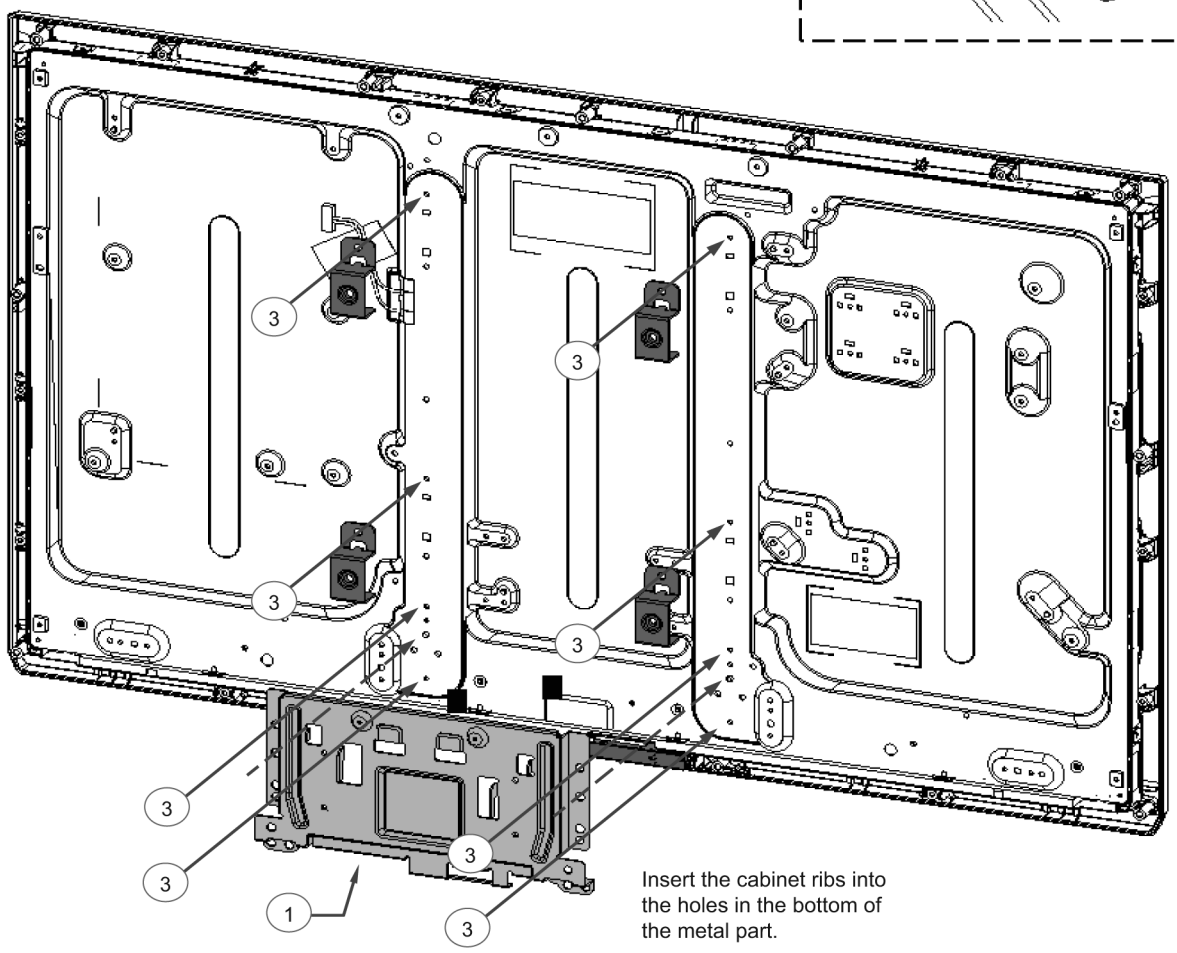


No.	Part Num.	Quant.	Description
1	TSCKF0010004	1 PC	LVDS CABLE
2	T4FP1505J	0.1 MT	PET TAPE (0.07 × 7)
3	TMME268	1 PC	CLAMPER

7.6. Screwing up Brackets

1. Fit metal bracket bottom and screw up.
2. Fit and screw the metal parts in the positions indicated. The dotted lines indicate the panel guides: fit the metal parts on the metal guides and then screw up.



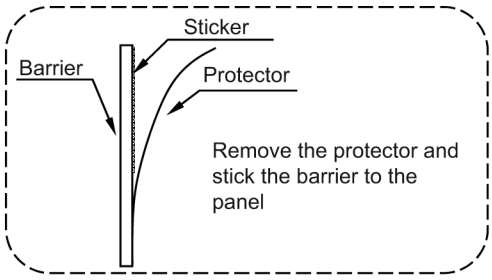


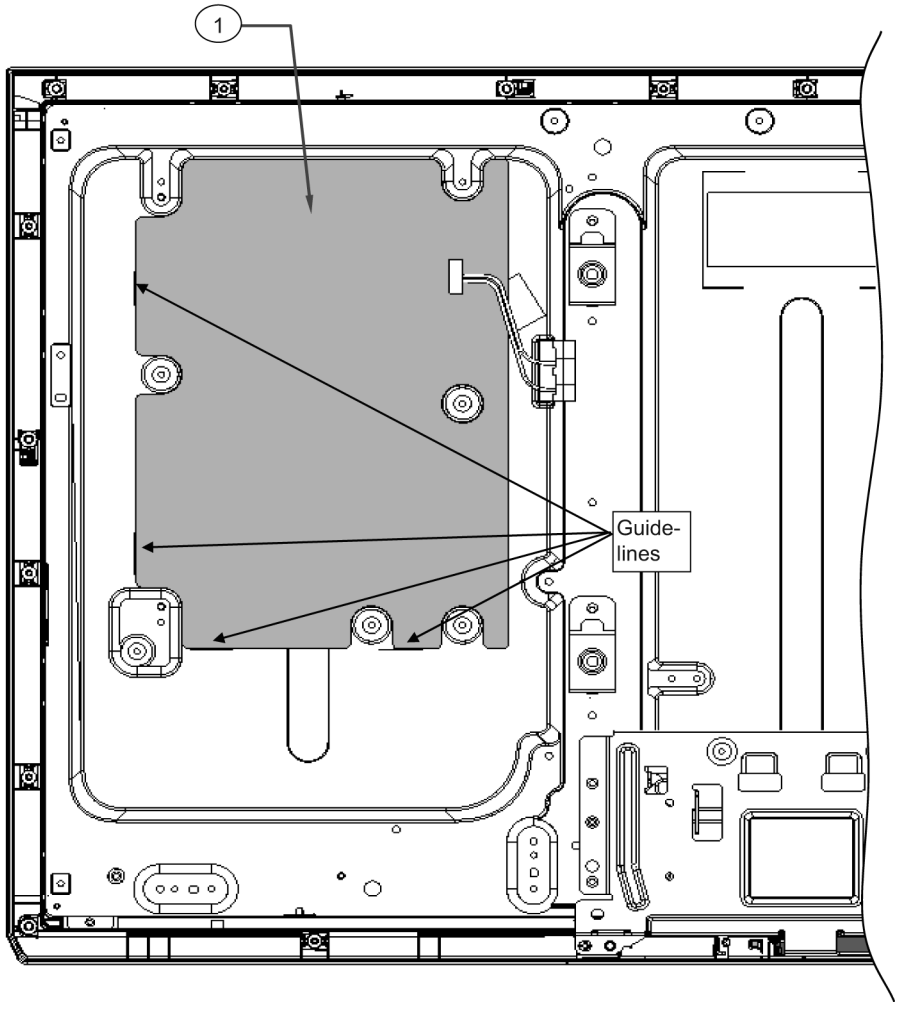
THEJ036J
TORQUE 6 ±1 Kgf.cm

No.	Part Num.	QTY	Description
1	TKZ5ZX5010	1	METAL BRACKET BOTTOM
2	TKZ5ZX5008	4	VESA METAL
3	THEJ036J	8	SCREW (M3 × 4.8)

7.7. Fitting the Barrier

Remove the sticker protection and fit the barrier in the position indicated, making sure the barrier does not go on top of the panel bags. Use the sides of the panel reliefs as guides for alignment.

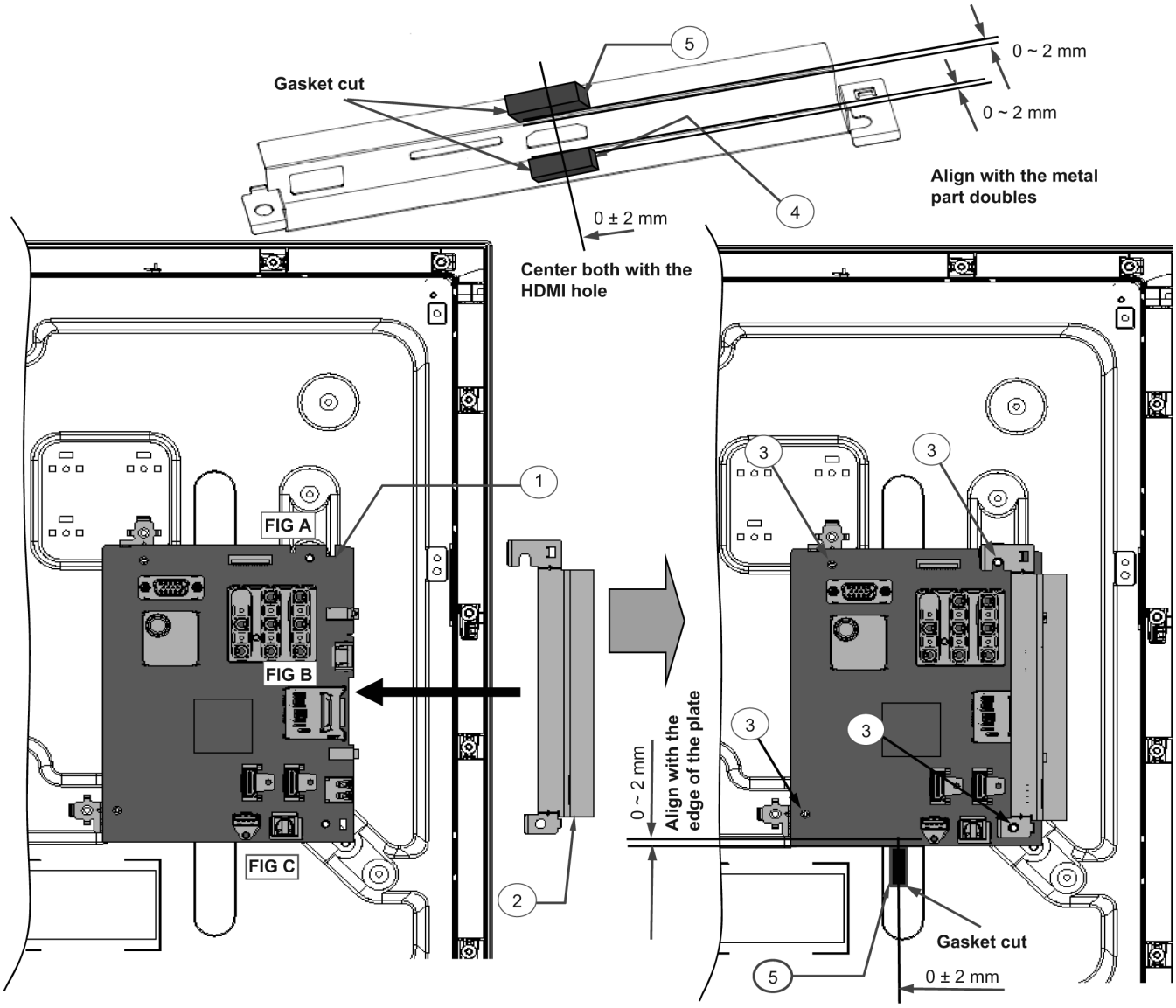


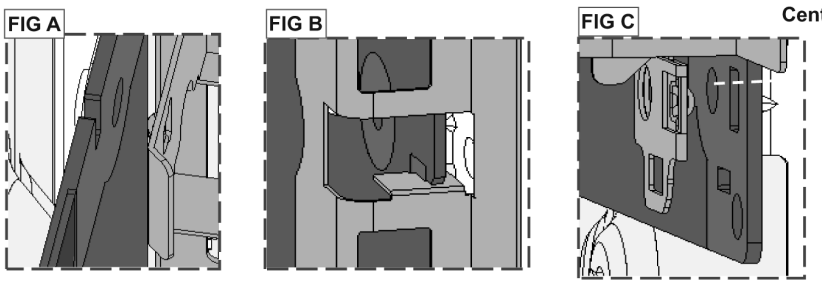


No.	Part Num.	Quant.	Description
1	TMK2AX230	1	BARRIER P PCB

7.8. Plate A Assembly

1. Fit plate A on the metal guides.
2. Assemble the gaskets on the metal AV bracket side and then assemble on the plate, sliding it towards the left on the plate until it fits in.
3. Assemble a gasket on the panel relief using the edge of plate A as a reference.
4. Screw in the positions indicated using the specified torque.



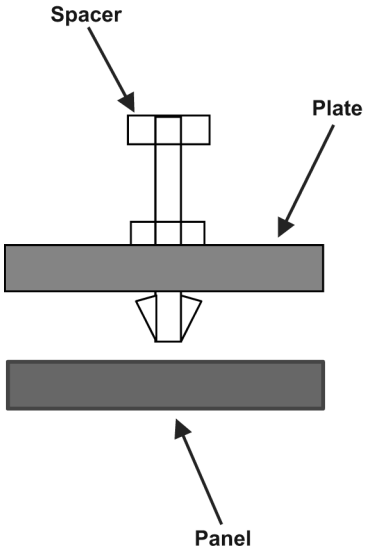


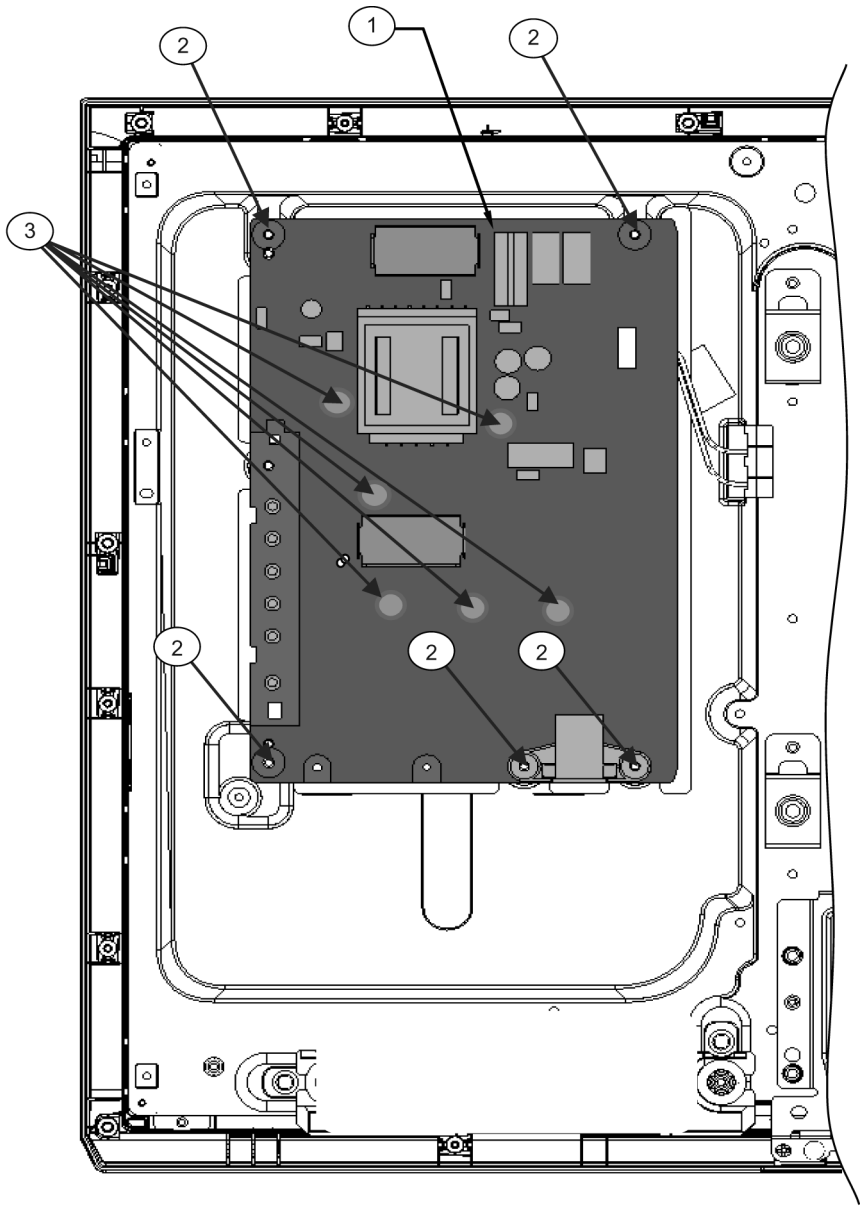
THEJ036J
TORQUE 6 ±1 Kgf.cm

No.	Part Num.	Quant.	Description
1	TXN/A1RZUU	1	ASSY, A PANEL COMPLETE
2	TKZ5ZF50181	1	METAL AV BRACKET SIDE
3	THEJ036J	4	SCREW (M3 × 4.8)
4	TEWB770	1	GASKET T3 W10 L15
5	TEWB763	2	GASKET (T12*W10*L20)

7.9. Plate P Assembly

1. Fit plate P on the metal guides.
2. Place the spacers in the correct positions. Detail A.
3. Screw in the positions indicated using the corresponding torque.



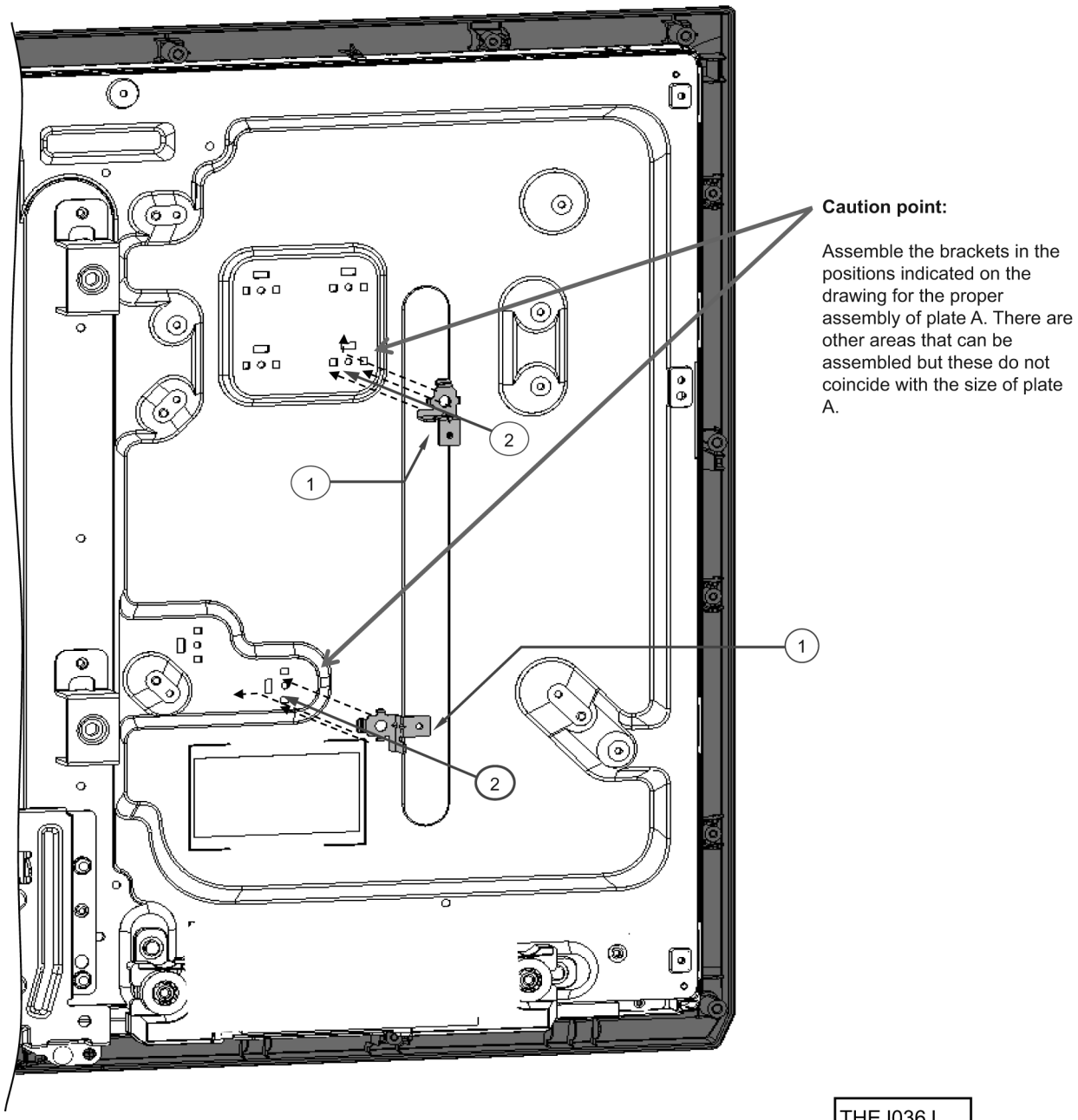


THEJ036J
TORQUE 6 ±1 Kgf.cm

No.	Part Num.	Quant.	Description
1	TXN/P1RZUU	1	ASSY, P PANEL COMPLETE FROM KATOLEC
2	THEJ036J	5	SCREW (M3 × 4.8)
3	TMME399	6	SPACER (P_PCB)

7.10. Plate Metal Part Assembly

1. Fit the metal parts, first assembling the hook in the largest groove of the panel. Position the other 2 terminals.
2. Screw in the positions indicated using the corresponding torque.



Caution point:

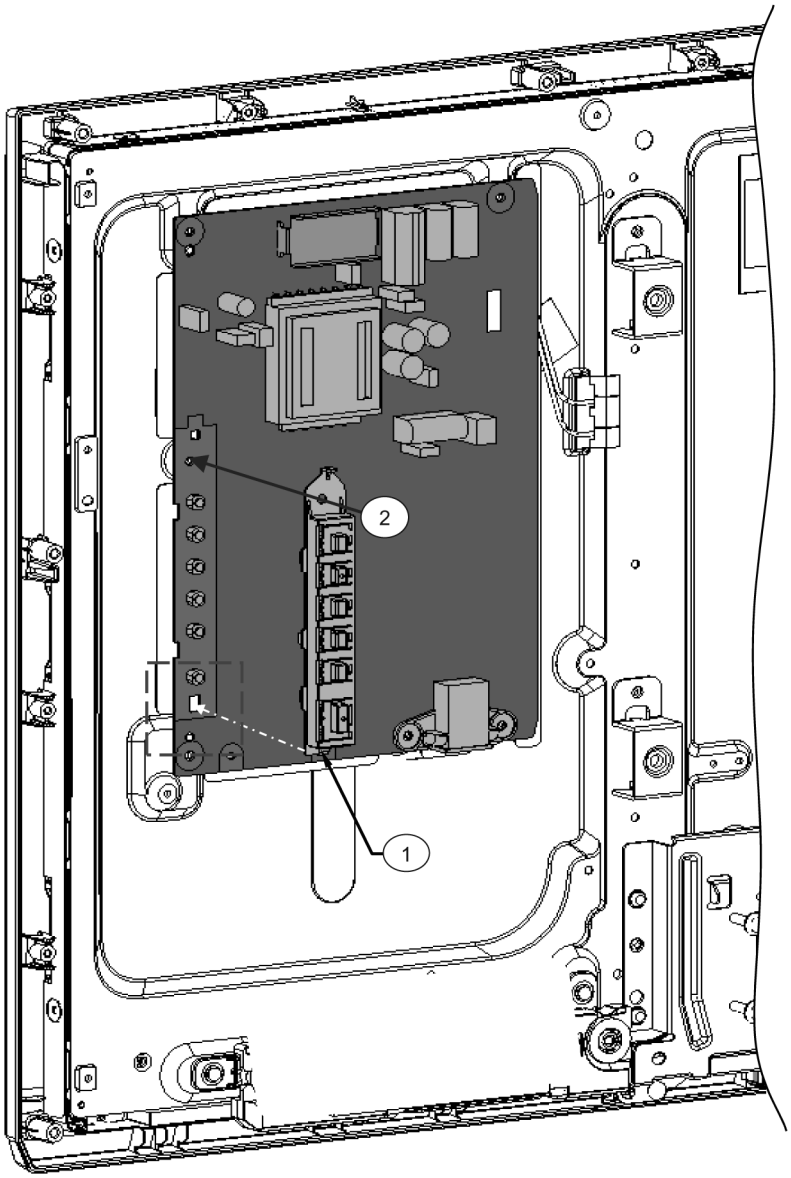
Assemble the brackets in the positions indicated on the drawing for the proper assembly of plate A. There are other areas that can be assembled but these do not coincide with the size of plate A.

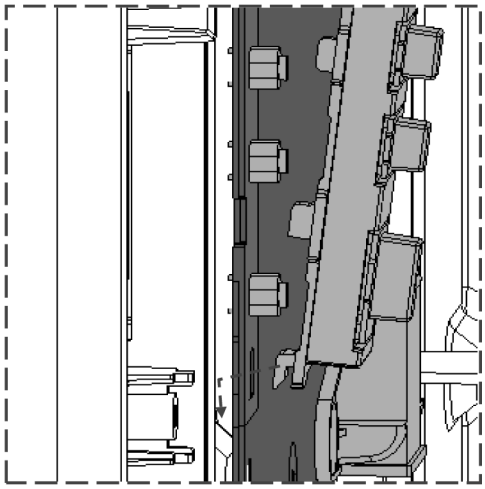
THEJ036J
TORQUE 6 ±1 Kgf.cm

No.	Part Num.	Quant.	Description
1	TKZ4GG5014	2	METAL BRACKET PCB A
2	THEJ036J	2	SCREW (M3 × 4.8)

7.11. Key Button

1. Assemble the plastic bracket for the buttons, first making sure to insert the hook at the bottom into the groove on the plate, then fitting the other end in.
2. Screw in the positions indicated using the corresponding torque.



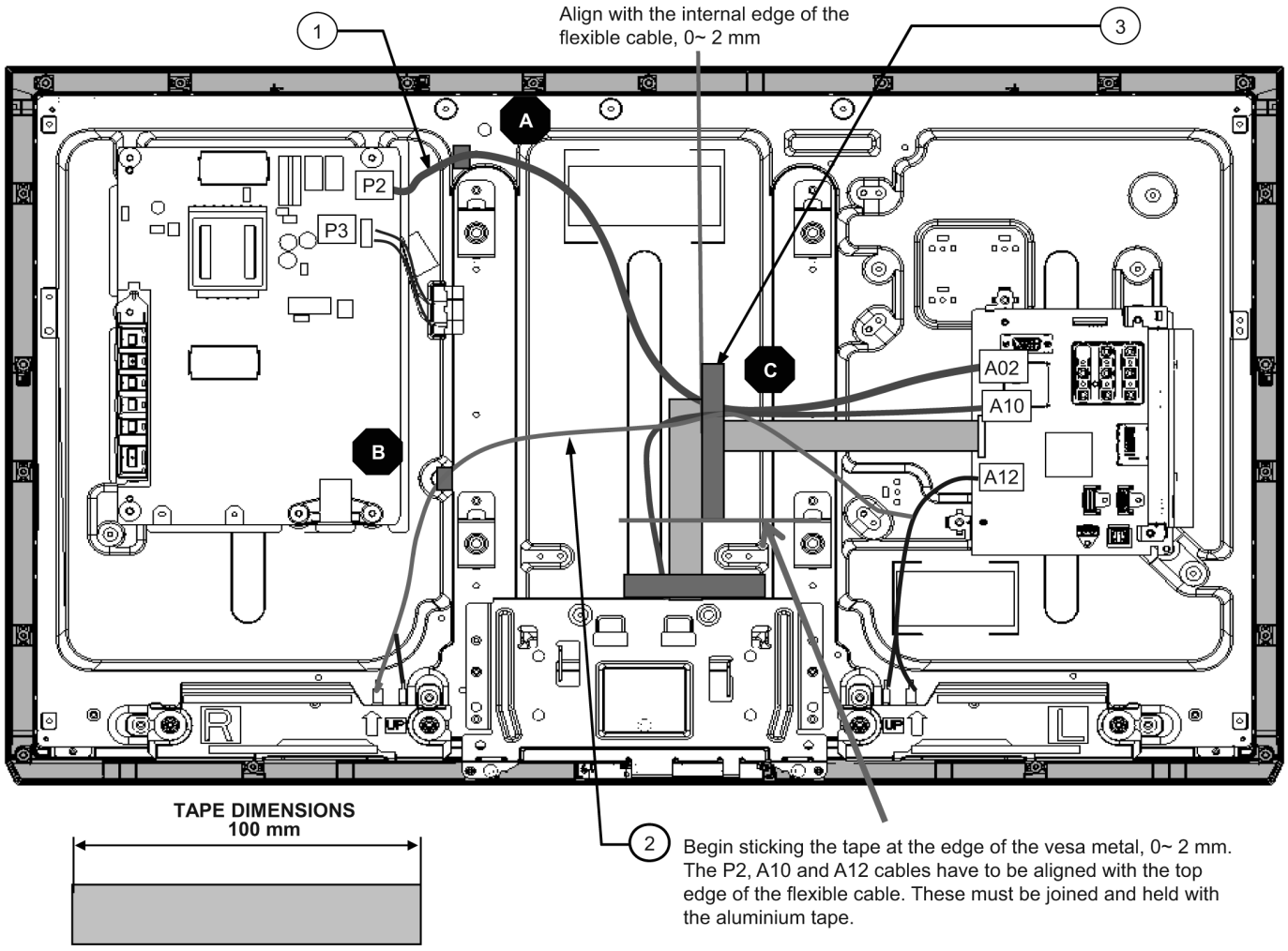


THEJ036J
TORQUE 6 ±1 Kgf.cm

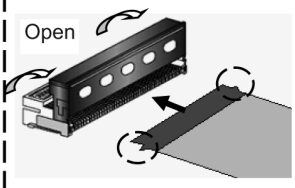
No.	Part Num.	Quant.	Description
1	TBX5ZA00301	1	KEY BUTTON
2	THEJ036J	1	SCREW (M3 × 4.8)

7.12. Cable Alignment

1. Connect the cable that comes on the panel to the P3 connector. During this operation do not pull, just align and connect.
2. Connect the cable already assembled to plate K to the A10 connector; assemble the P2 cable to the A02 and P2 connector and the A12 cable to the speakers and the A12 connector.
3. Align the cables using the A and B clampers and place tape C on the cables indicator. Ensure the tape sticks to the aluminium properly (see reference table for alignments).

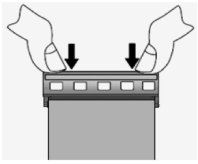


Reference for connecting flexible cables.



Insert the flexible cable hooks on both sides.

NOTE: Make sure the cable is properly inserted.



To close the connector, press the connector at both ends using 2 hands.

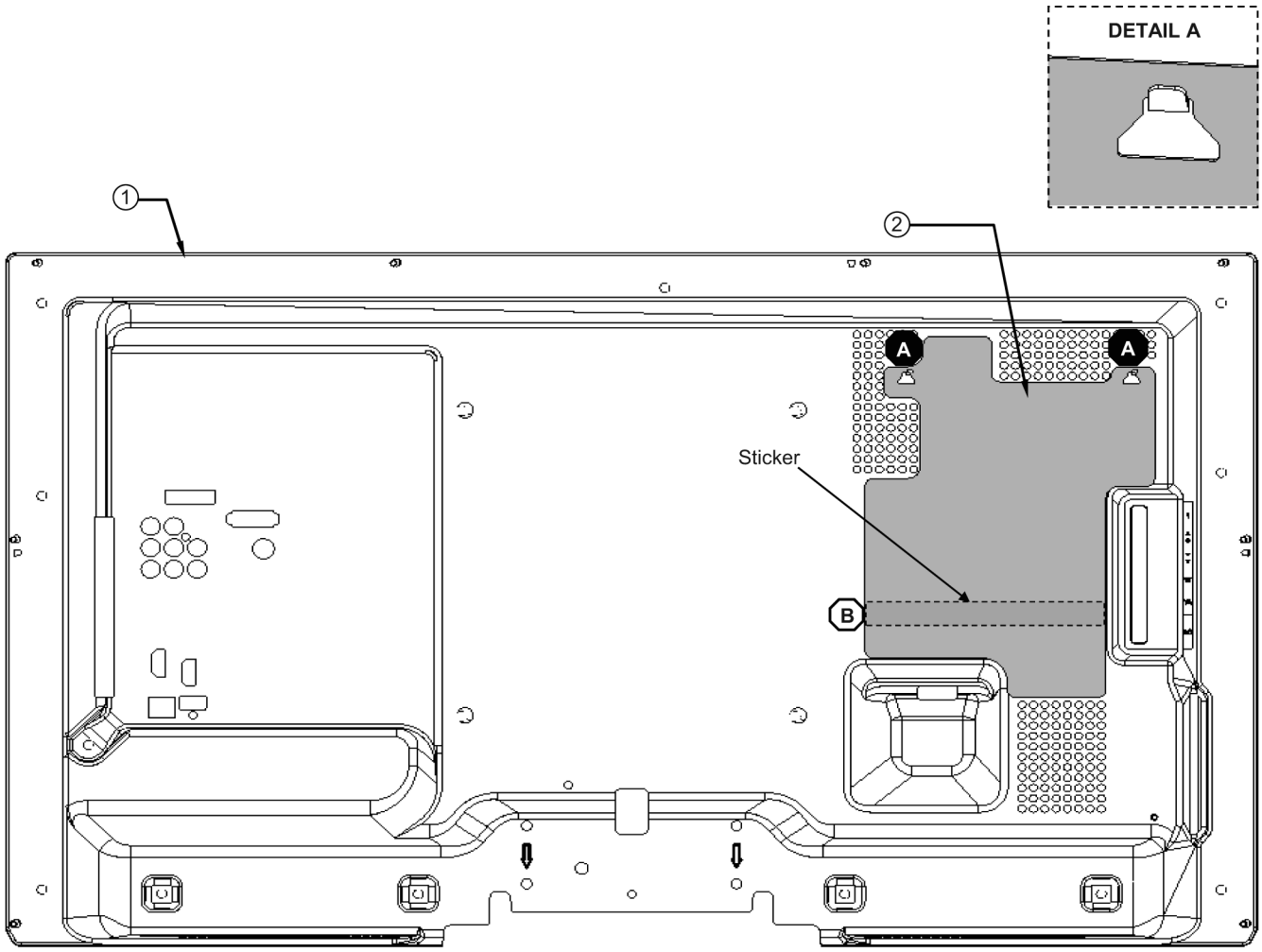
NOTE: If you want to disconnect the flexible cable, open the connector door, pulling and lifting gently at the same time so you can remove it.

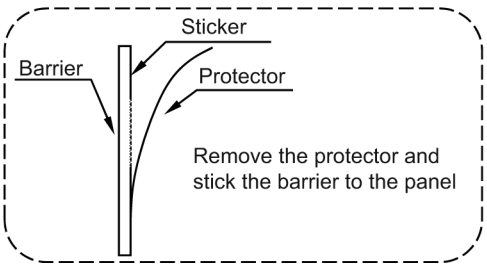
No.	Part Num.	Quant.	Description
1	TXJA09RZUU	1	WIRE (A09-P2)
2	TXJA12RZUU	1	WIRE (A12-SP(LR))
3	T4FP1505J	0.1	PET TAPE (0.07 × 7)

Cables	Clampers		Tape
	A	B	C
P2 - A02	●		●
SP (R) - A12		●	●
SP (L) - A12			
A10 - K10			●
P3 - Panel			
Flexible			●

7.13. Preparing the Back Cover

1. Remove the barrier tape protector.
2. Insert the barrier into the grooves on the back cover (indicated by the letter ‘A’).
3. Stick the sticker area (indicated by the letter ‘B’).

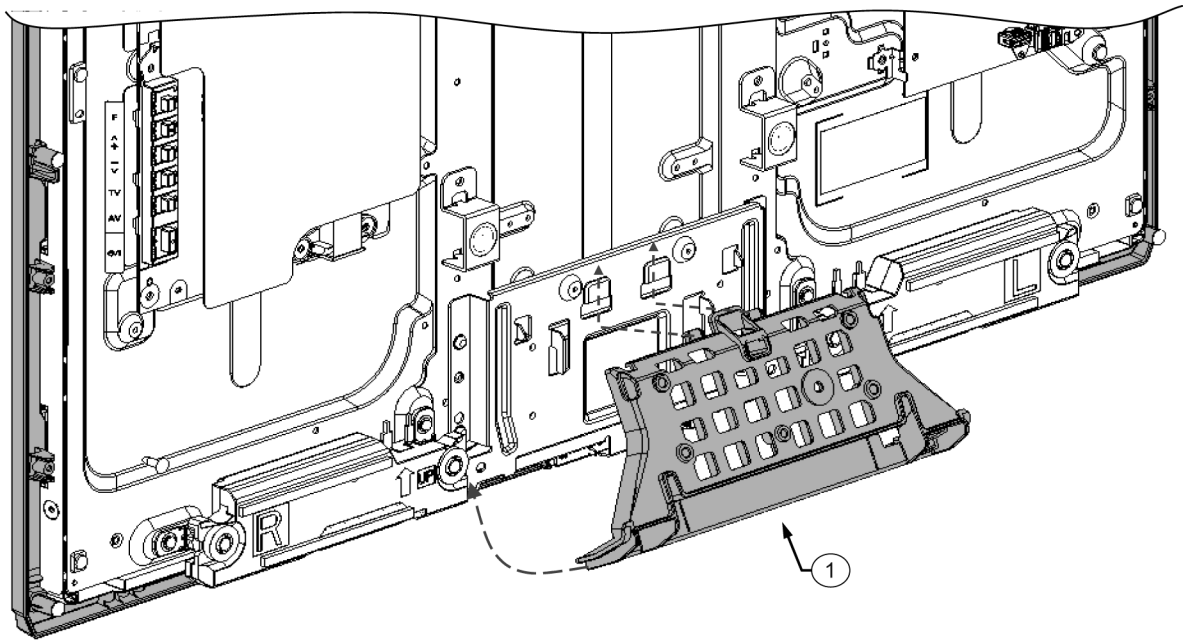




No.	Part Num.	Quant.	Description
1	TKU5ZX04902	1	BACK COVER
2	TMK2AX231	1	BARRIER BC

7.14. Bottom Cover Assembly

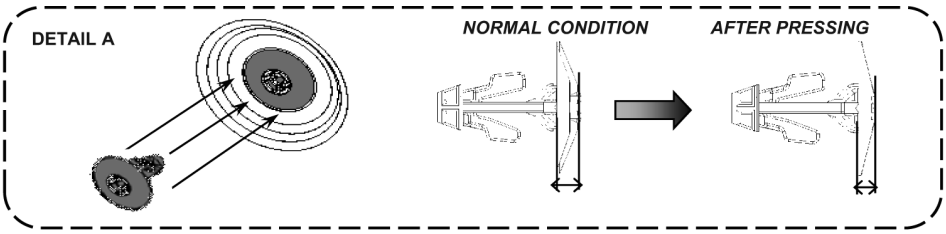
Insert the bottom cover guides into the grooves on the lower metal part and slide the lower part in the direction indicated.

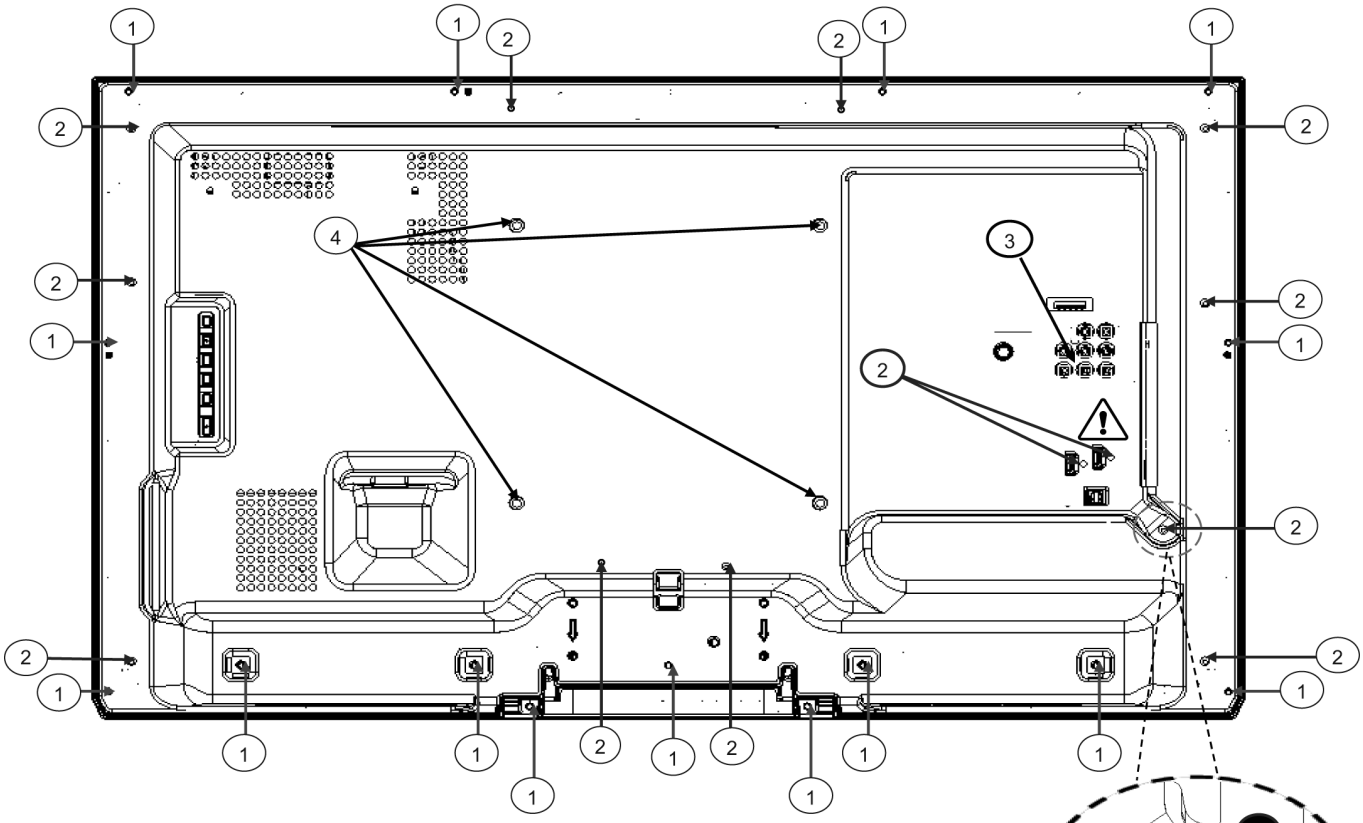


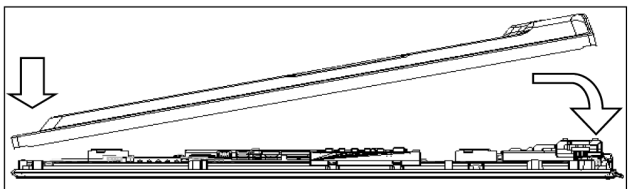
No.	Part Num.	Quant.	Description
1	TKP5ZA13801	1	BOTTOM COVER

7.15. Screwing up the Back Cover

1. Fit the back cover to the television.
2. Screw in the positions indicated using the corresponding torque.
3. Insert the M6 CAP by hand. Press until assembled. Use detail A as an assembly reference.
4. First fit the washer and then screw it in the position indicated by the dotted circle, respecting the torque mentioned.

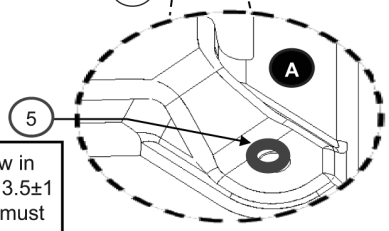






Assemble the top of the back cover to the top of the set. Complete the assembly by lowering the bottom part until it is correctly fitted on the set.

Note: For the THEC1509 screw in the HDMI position, a torque of 3.5±1 and a slow speed screwdriver must be used.



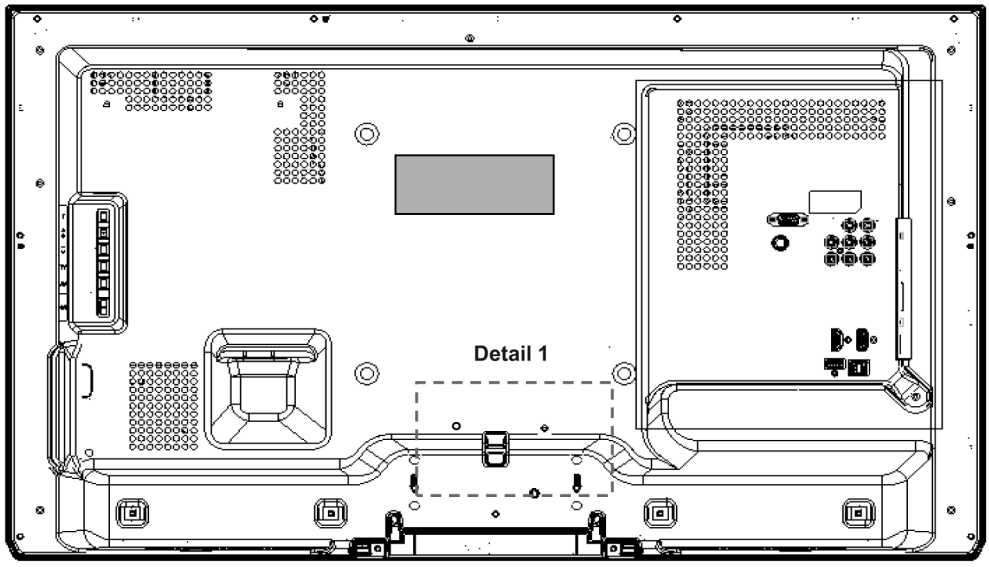
THEC1509 (A)	THTD030J	THEC1509	XTV3+8GFJK
TORQUE 3.5 ±1 Kgf.cm	TORQUE 10 ±2 Kgf.cm	TORQUE 6 ±1 Kgf.cm	TORQUE 6 ±1 Kgf.cm

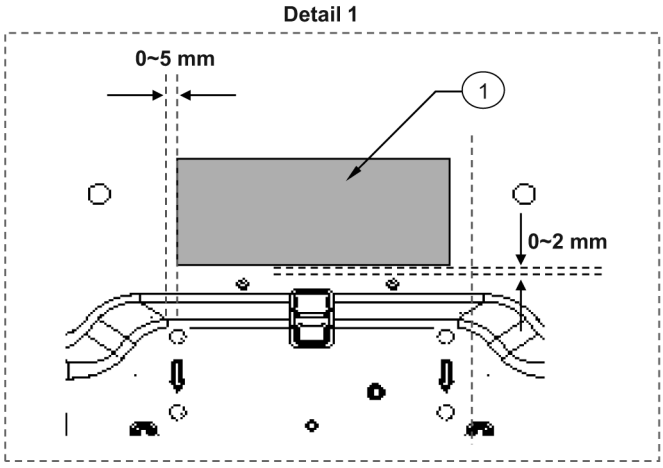
No.	Part Num.	Quant.	Description
1	THTD030J	15	SCREW (M3 × 4)
2	THEC1509	13	SCREW
3	XTV3+8GFJK	1	SCREW
4	TKKL5521	4	M6 CAP
5	TMK4GX113	1	WASHER

7.16. Fitting the label

1. Place the label in the position indicated. See detail 1.

Note: Make sure the area where the labels are to be placed is free of dust.





No.	Part Num.	Quant.	Description
1	TQF2AA554-1	1	PEDESTAL CAUTION LABEL

8 Measurements and Adjustments

8.1. Voltage chart of A-board

Set A-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Power Supply Name	Measurement Point	Specification (V)	Remark
SUB1.8V	TP8700	1.74 - 1.90	-
SUB1.2V	TP8000	1.18 - 1.32	-
SUB3.3V	TP8701	3.19 - 3.46	-
SUB5V	TP8702	4.9 - 5.1	-
STB5V	TP5400	4.9 - 5.1	-

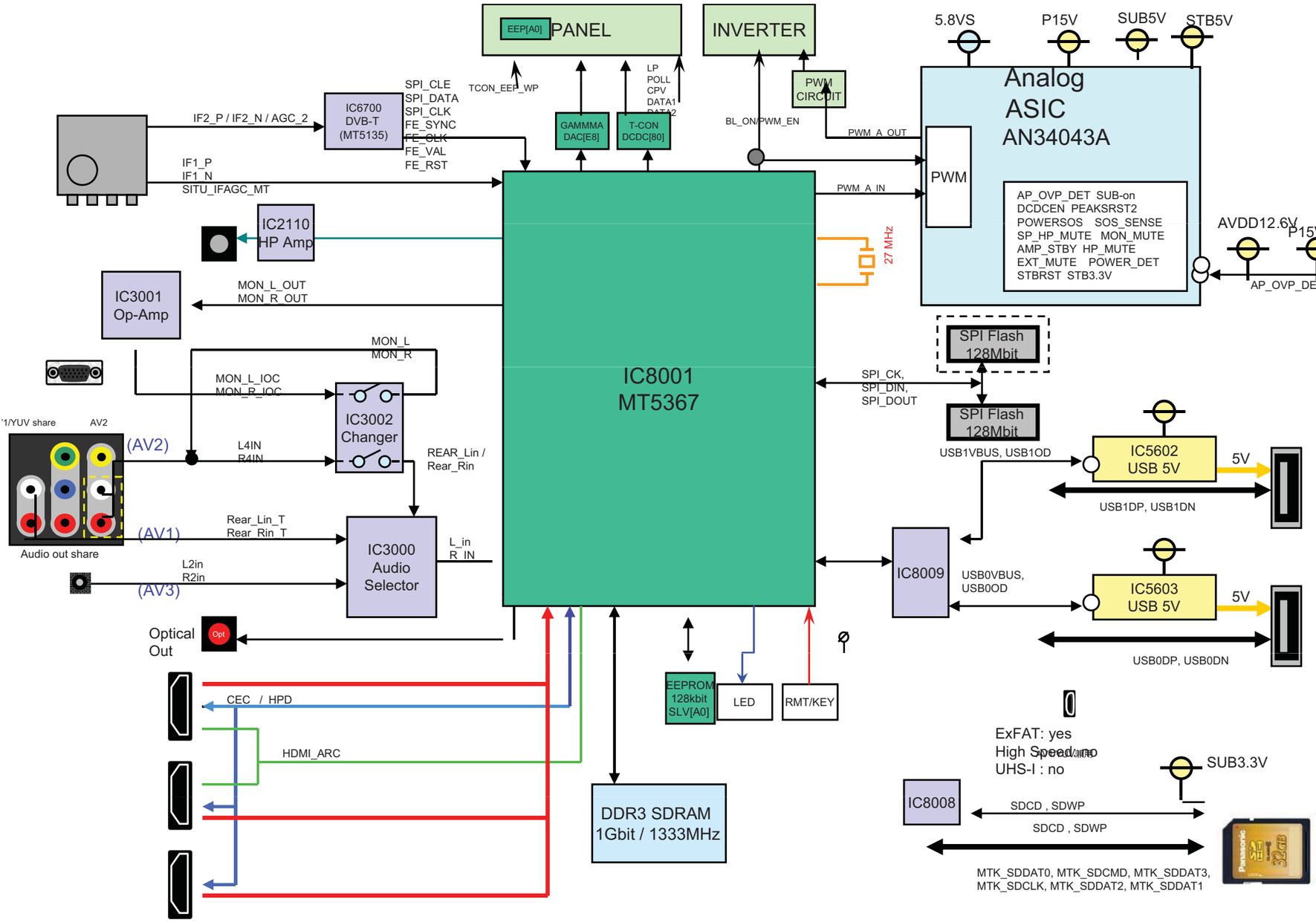
8.2. Voltage chart of P-board

Set P-Board to a dummy set and check the satisfaction with the specified voltage as following table.

VOLTAGE	TEST POINT	Specification	
		Operate	STBY
5.8V	TP7507	6.2 + 0.5 / -1.0 V	5.6 + 1.1 / -0.85V
15.6V	TP7508	15.6 ± 0.8 V	-
40V	TP7501	40 ± 4V	-

9 Block Diagram

9.1. Main Block Diagram



10 Schematic Diagram

10.1. Schematic Diagram Notes

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC110-127V, 60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing 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.

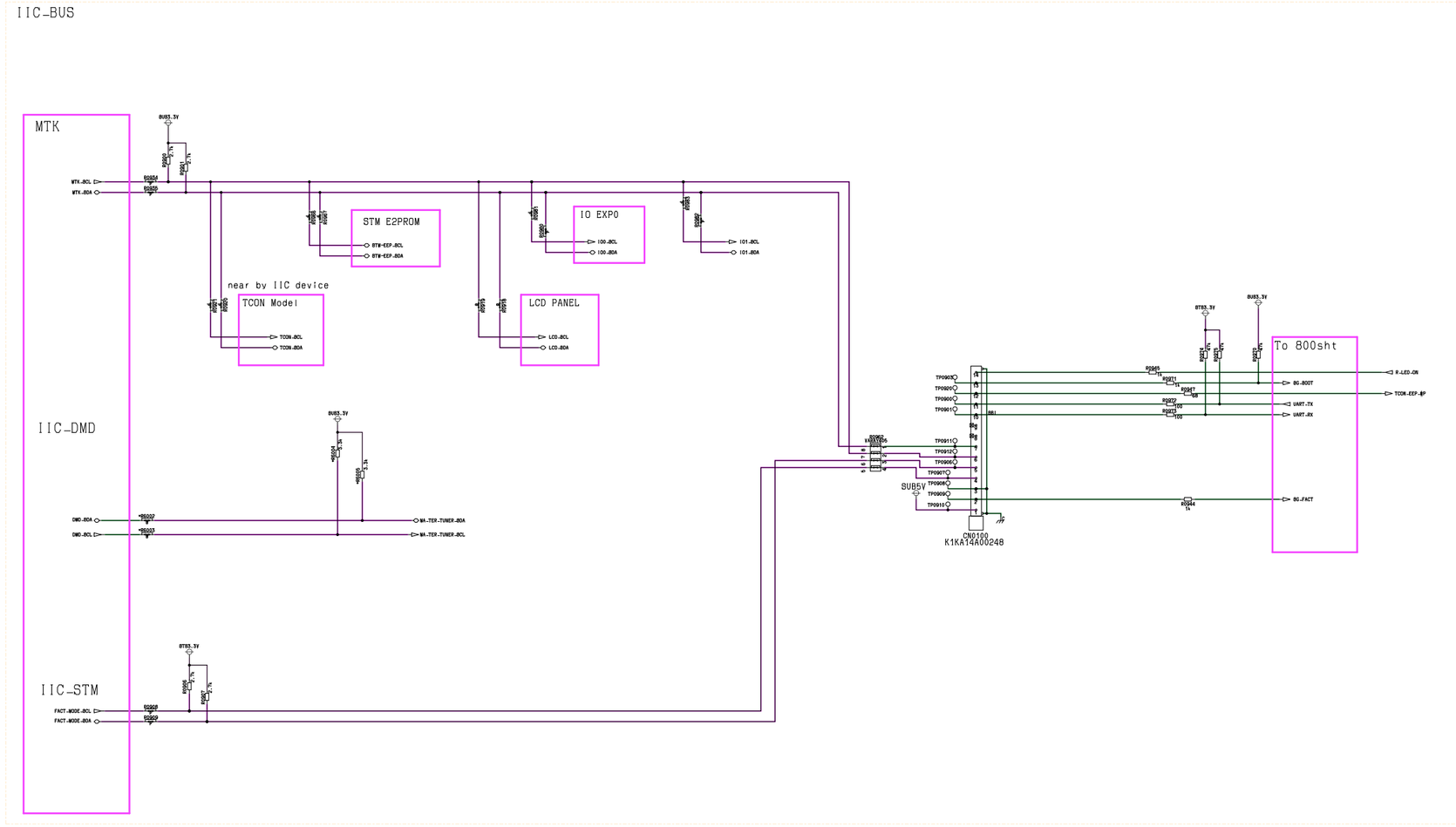
10.2. A-Board (1/18) Schematic Diagram

SHEET 002

IIC

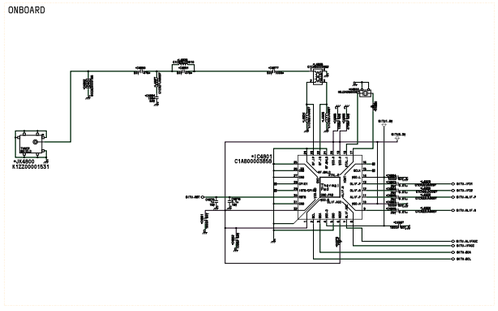
REF No. 0900 - 0999

[Net Variation]



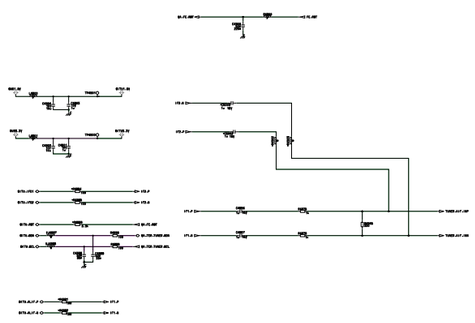
10.3. A-Board (2/18) Schematic Diagram

[Block Name]
On board Tuner
REF No. 4000 -
[Net Variation]

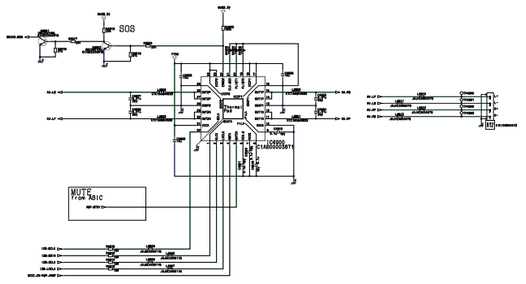


[Block Name]
Main Tuner
REF No. 4800 - 4899

[Net Variation]
[FE_BRANCH]

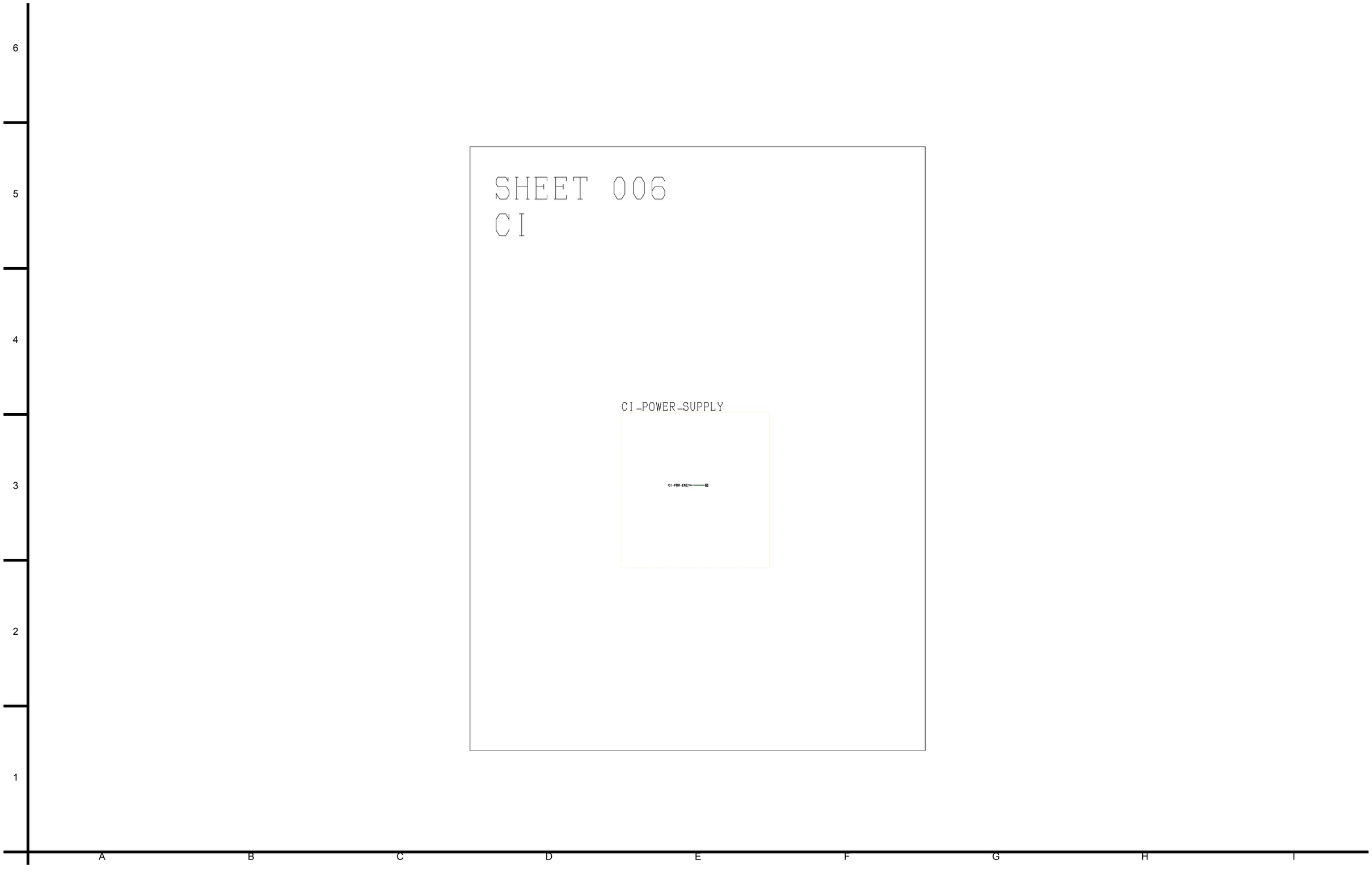


[Block Name]
Audio-AMP
REF No. 4900 - 4969
[Net Variation]
Common

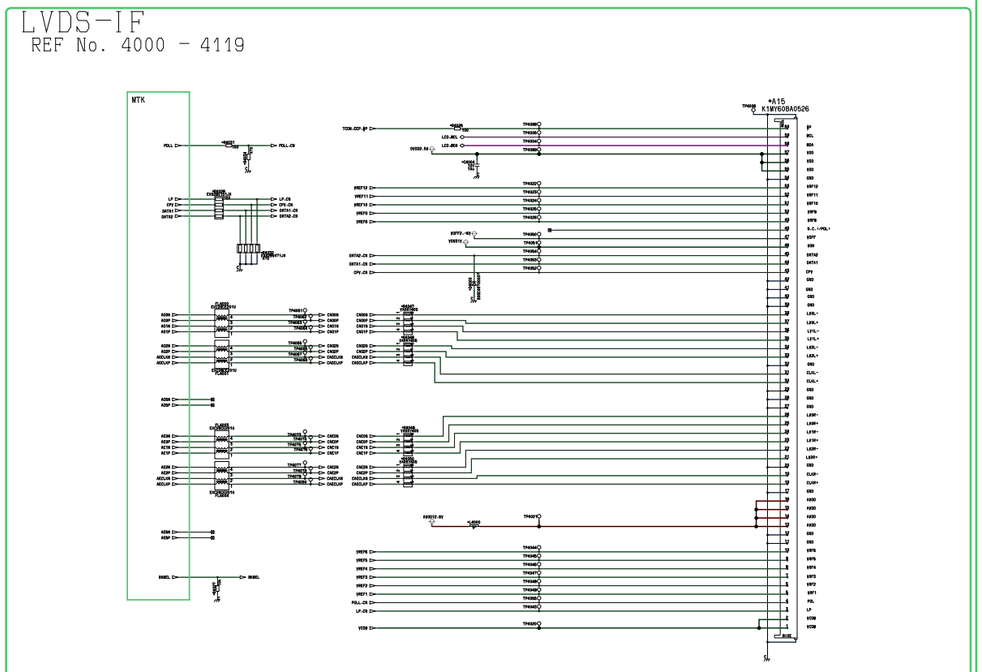


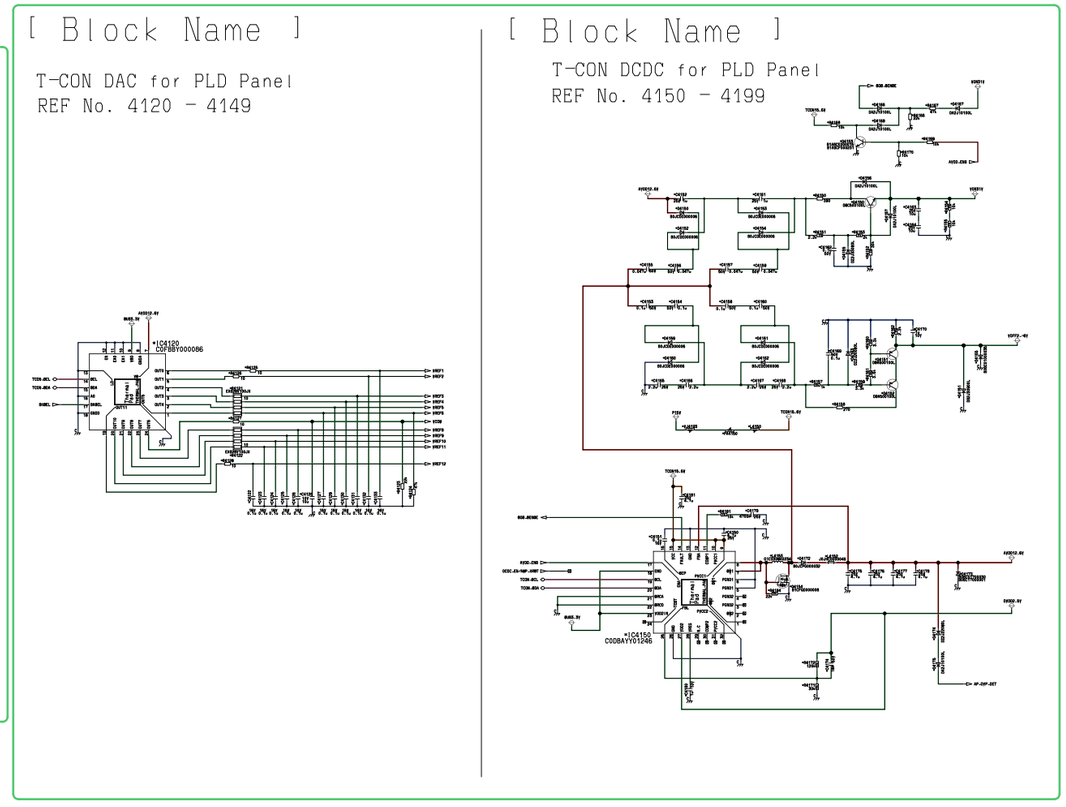
SHEET 003
TUNER / AUDIOAMP

10.4. A-Board (3/18) Schematic Diagram



10.5. A-Board (4/18) Schematic Diagram





SHEET 009
LVDS-IF

10.6. A-Board (5/18) Schematic Diagram

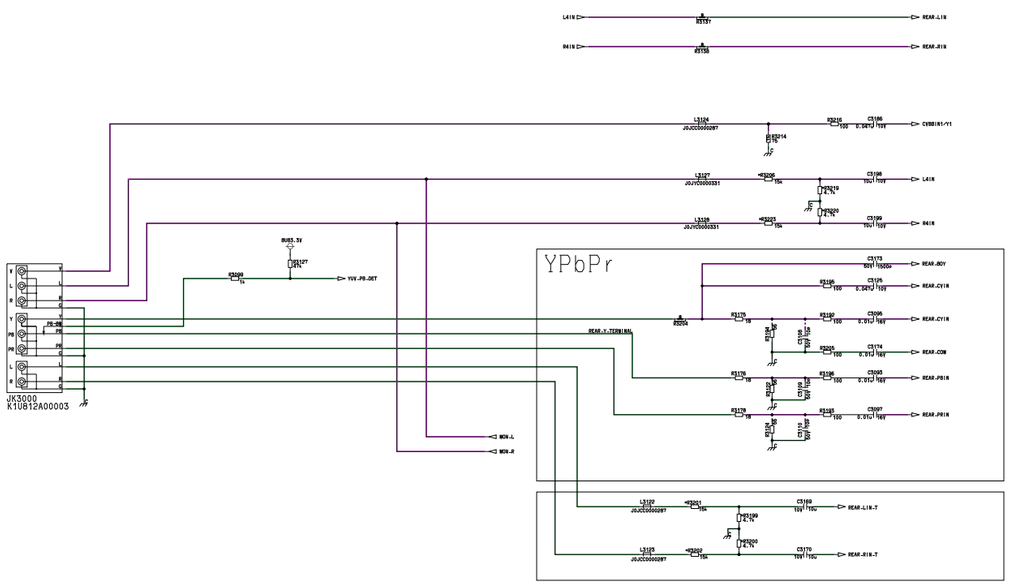
[Block Name]

AVSW-Connection

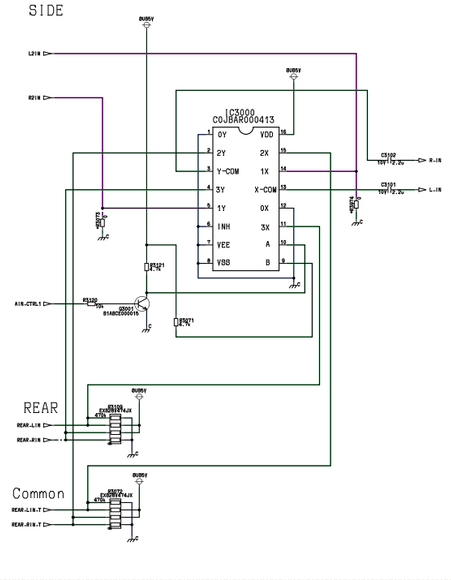
REF No. 3050 - 3249

[Net Variation]

SHEET 011
AV-INPUT



AUDIO-SELECTOR



10.7. A-Board (6/18) Schematic Diagram

6

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2

1

A B C D E F G H I

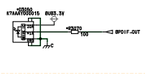
SHEET 012

AV_OUTPUT

AVSW-Connection

REF No. 3050 - 3249

OPTICAL_OUT

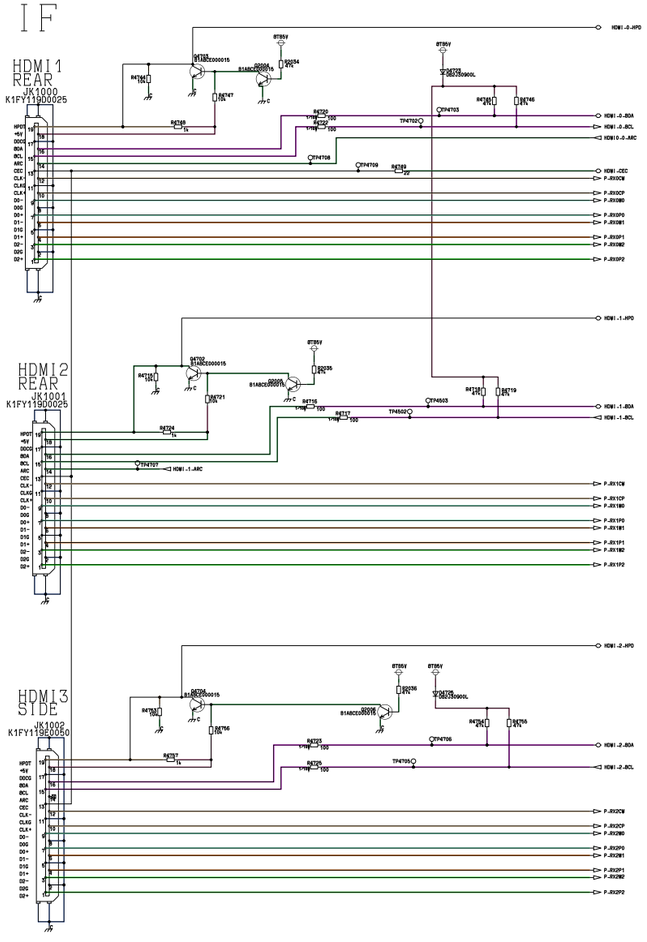


HP

10.8. A-Board (7/18) Schematic Diagram

HDMI

SHEET 013
HDMI Connector IF
REF No. 4500 - 4749

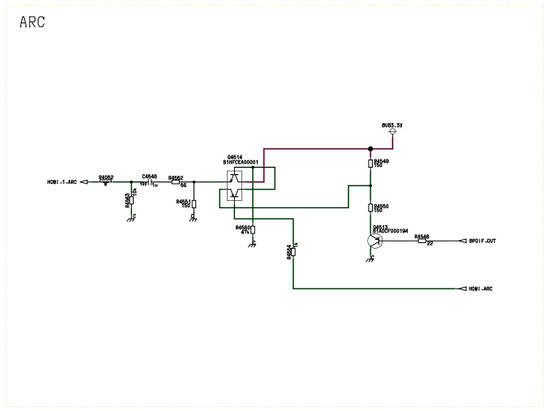


[Block Name]

ARC

REF No. 4750 - 4799

[Net Variation]



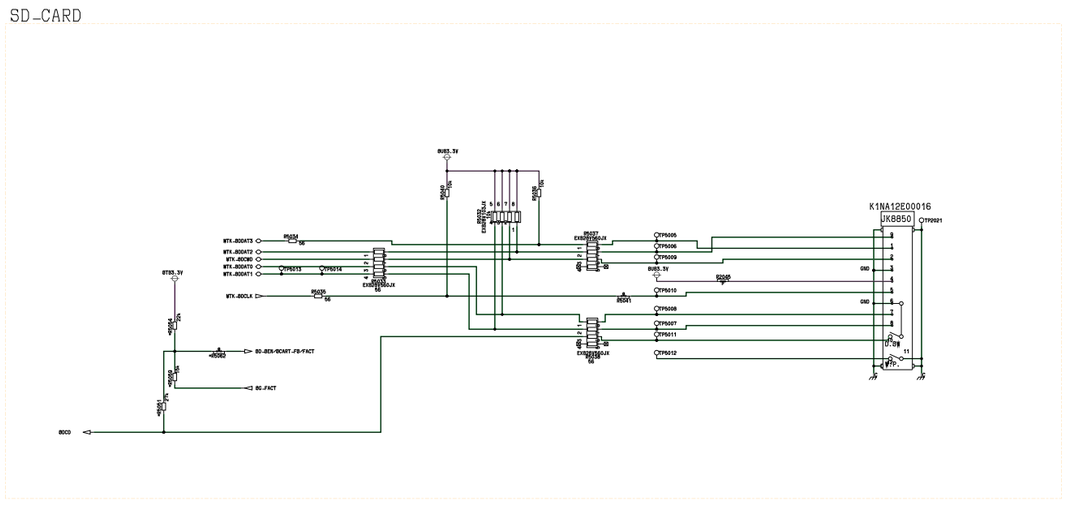
10.9. A-Board (8/18) Schematic Diagram

SHEET 014

SD

REF No. 8000 - 8999

[Net Variation]



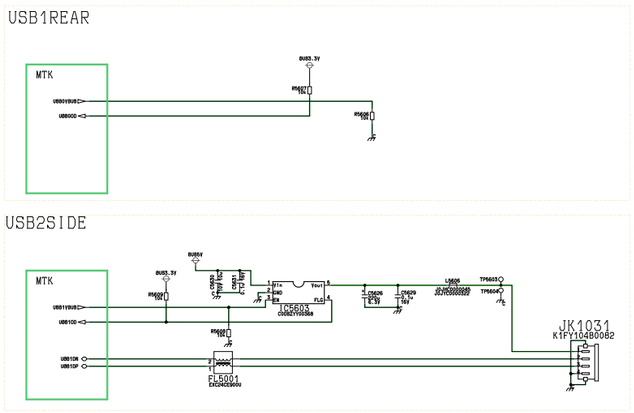
10.10. A-Board (9/18) Schematic Diagram

[Block Name]

USB

REF No. 5600 - 5649

[Net Variation]



SHEET 015

10.11. A-Board (10/18) Schematic Diagram

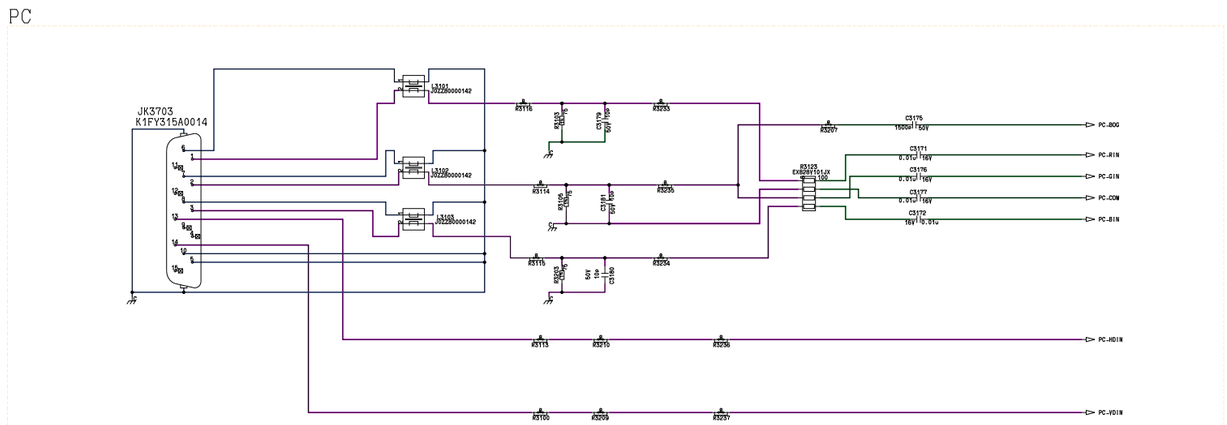
[Block Name]

AVSW-Connection

REF No. 3050 - 3249

[Net Variation]

SHEET 016
PC



10.12. A-Board (11/18) Schematic Diagram

6

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1

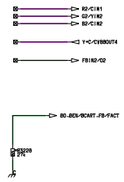
SHEET 017

AVSW-Connection

REF No. 3050 - 3249

[Net Variation]

SCART



A B C D E F G H I

10.13. A-Board (12/18) Schematic Diagram

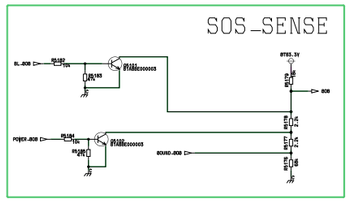
[Block Name]

SOS

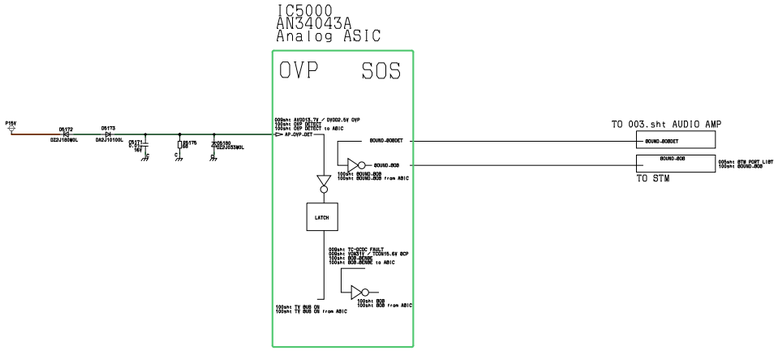
REF No. 5170 – 5199

[Net Variation]

LCD



IC5000
AN34043A
Analog ASIC



[Block Name]

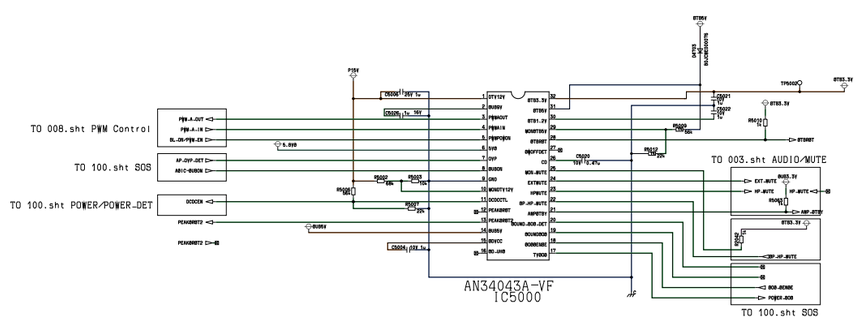
Analog ASIC

REF No. 5000 – 5139

[Net Variation]

LCD

SHEET 100
SOS ／ ASIC



10.14. A-Board (13/18) Schematic Diagram

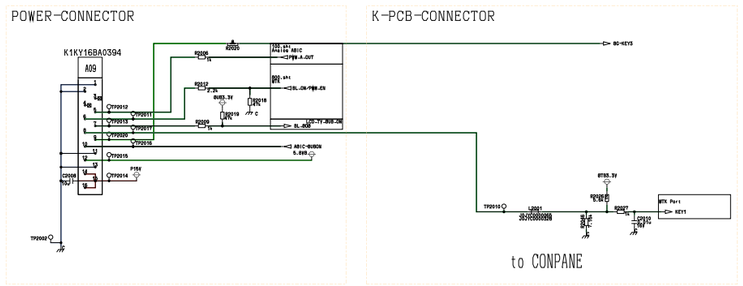
SHEET 101

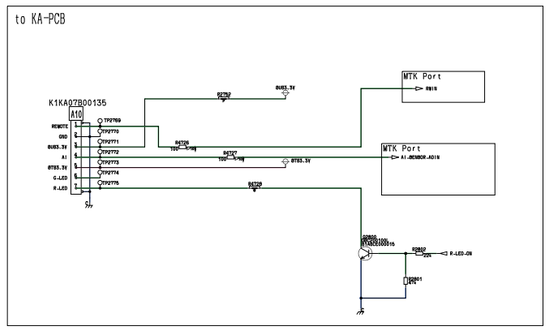
Set

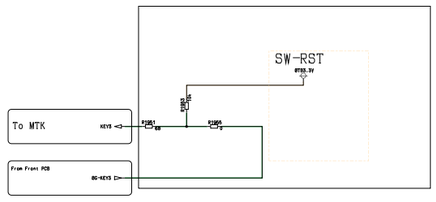
REF No. 2000 - 2499

[Net Variation]

E3-US/GM-LCD







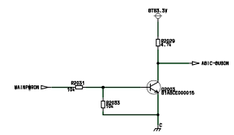
[Block Name]

SUB ON by MTK

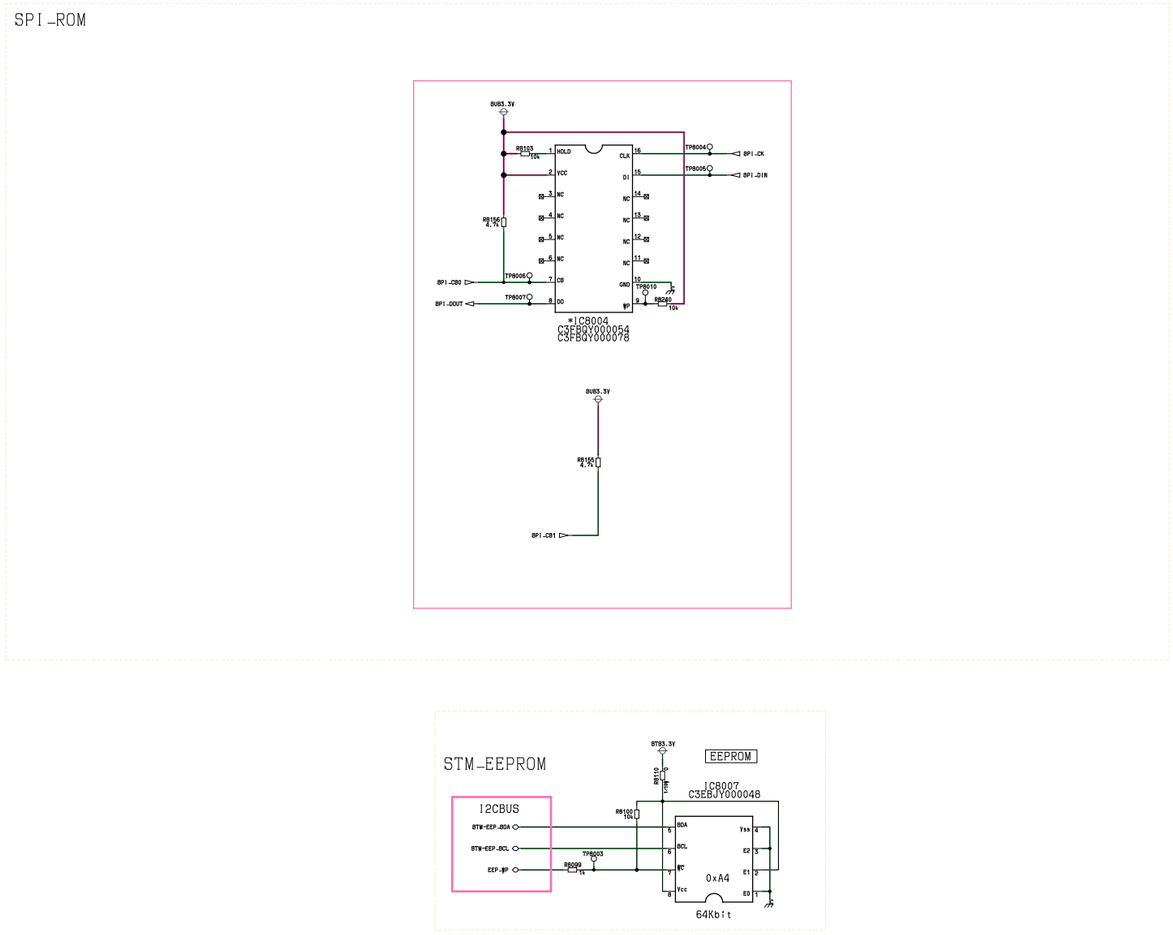
REF No. 2000 - 2499

[Net Variation]

E3-US/GM-LCD

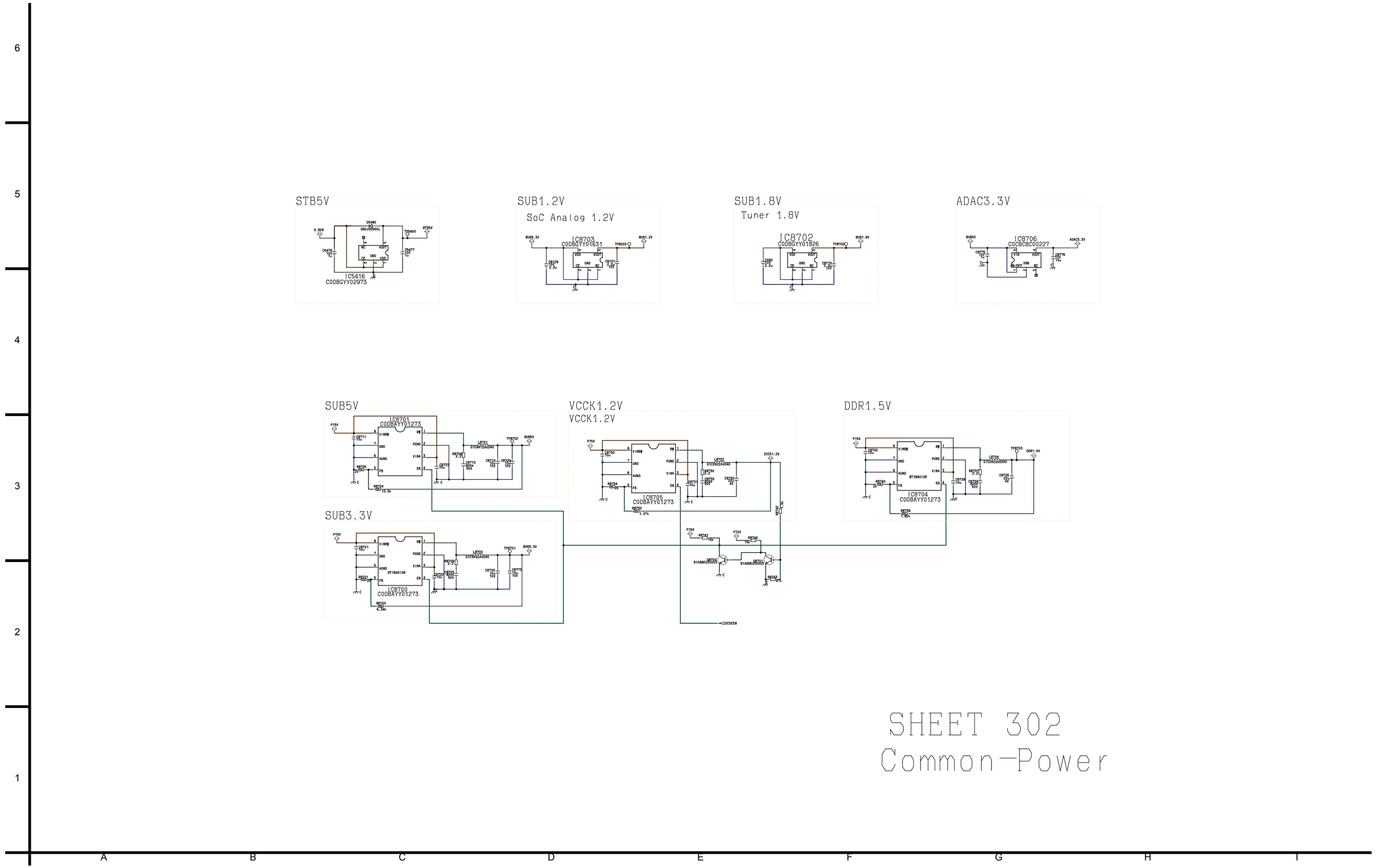


10.15. A-Board (14/18) Schematic Diagram



SHEET 300
SP ／ E2PROM

10.16. A-Board (15/18) Schematic Diagram

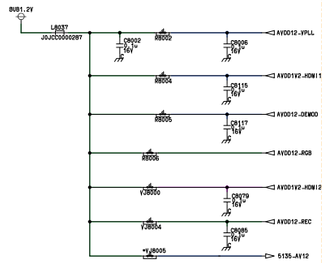


10.17. A-Board (16/18) Schematic Diagram

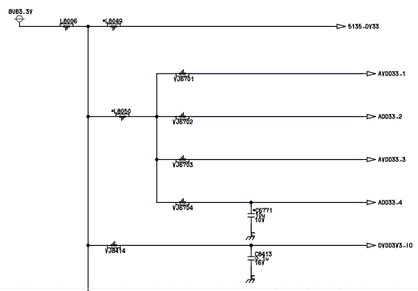
SHEET 701
POWER_DEVIDING

POWER

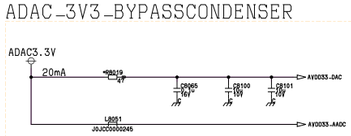
AVDD1V2_BYPASSCONDENSER



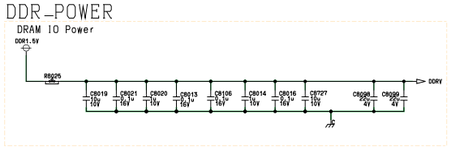
DVDD3V3_BYPASSCONDENSER



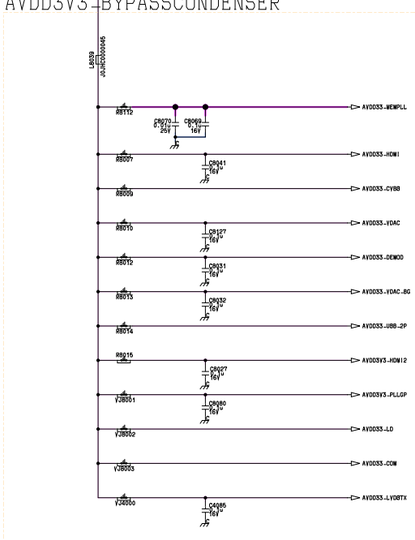
ADAC_3V3_BYPASSCONDENSER



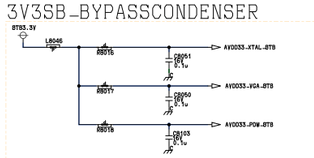
DDR_POWER



AVDD3V3_BYPASSCONDENSER



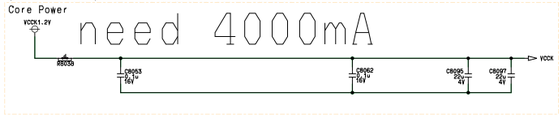
3V3SB_BYPASSCONDENSER



VCCK1R2V_BYPASSCONDENSER

Core Power

need 4000mA

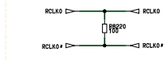


VCCK1R1V_BYPASSCONDENSER

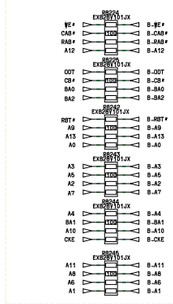
10.18. A-Board (17/18) Schematic Diagram

SHEET 703
DDR2

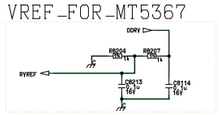
TERMINATION



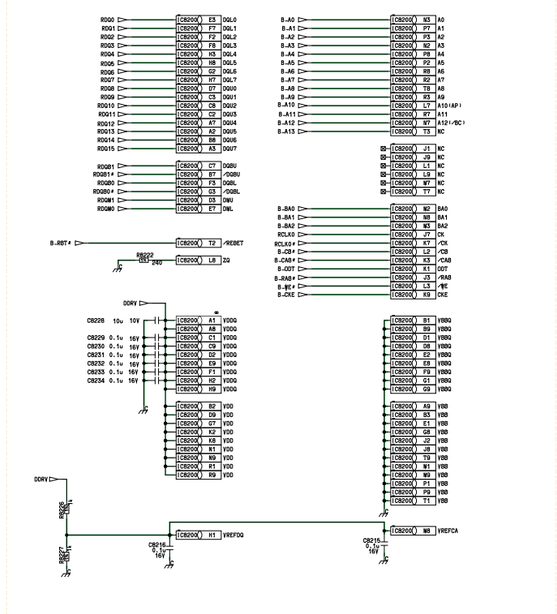
DAMPING



VREF_FOR_MT5367

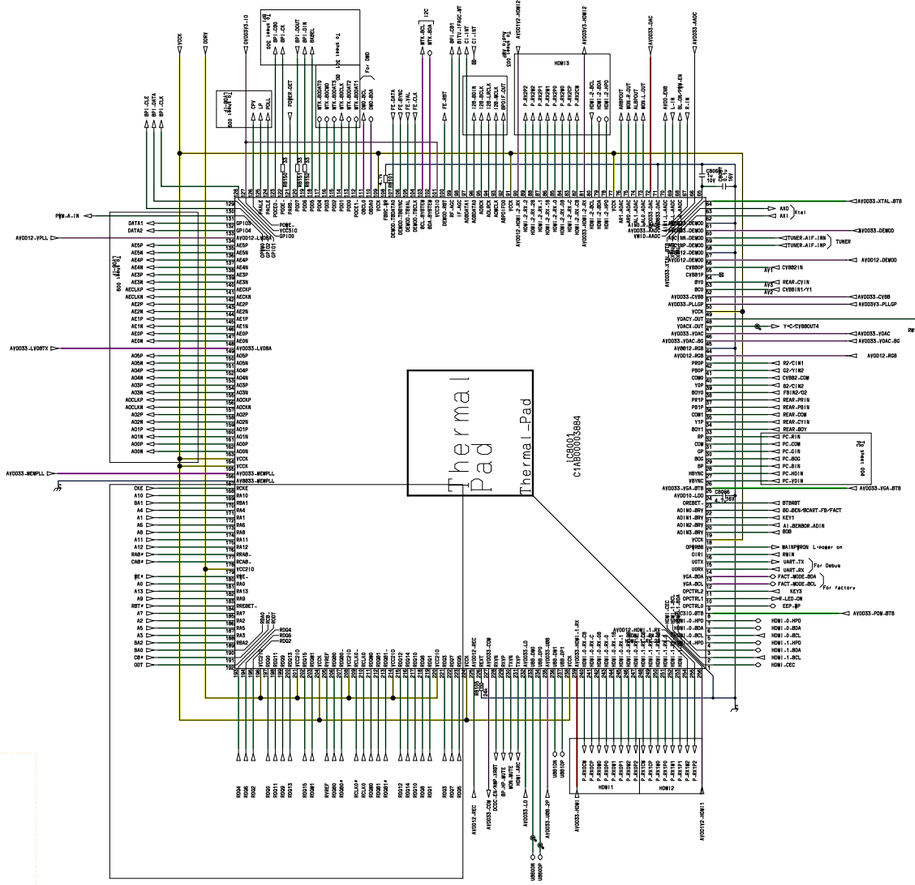


DD3

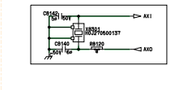


10.19. A-Board (18/18) Schematic Diagram

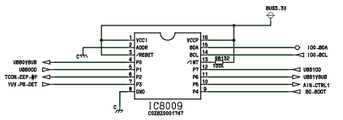
SHEET 800
MT5367



SOC_CRYSTAL

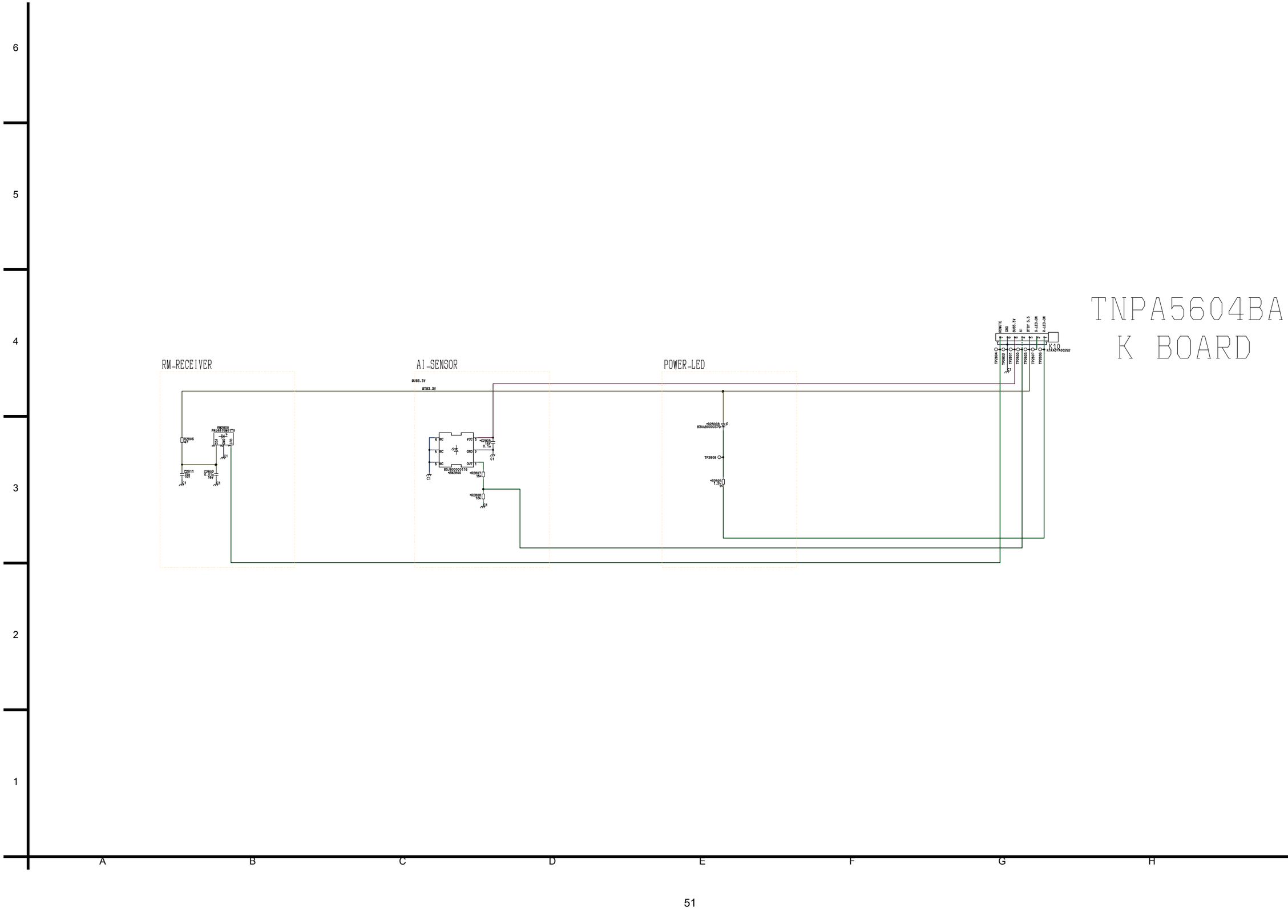


IO-EXPANTION

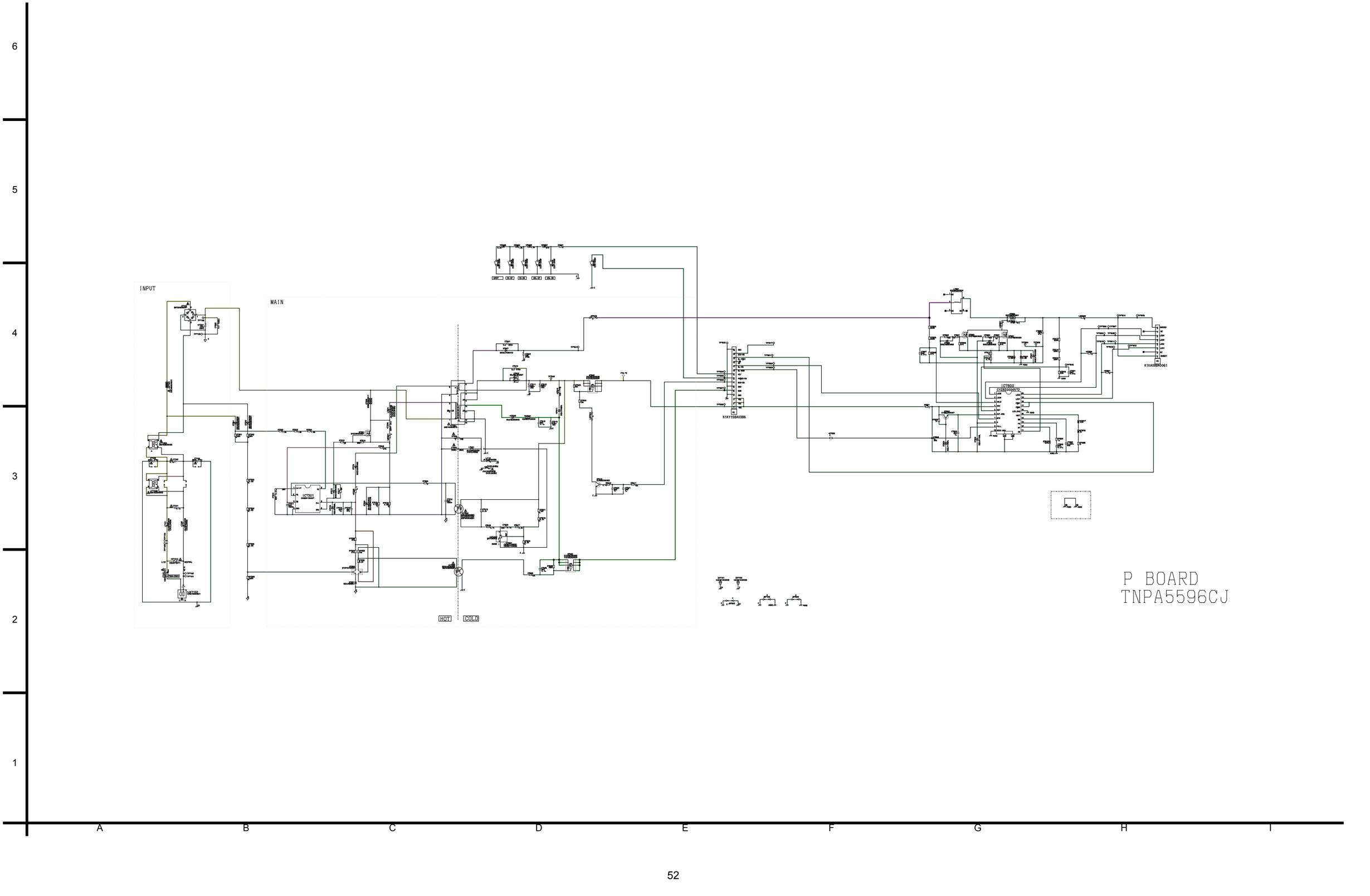


BOOT_STRAPPING

10.20. K-Board Schematic Diagram



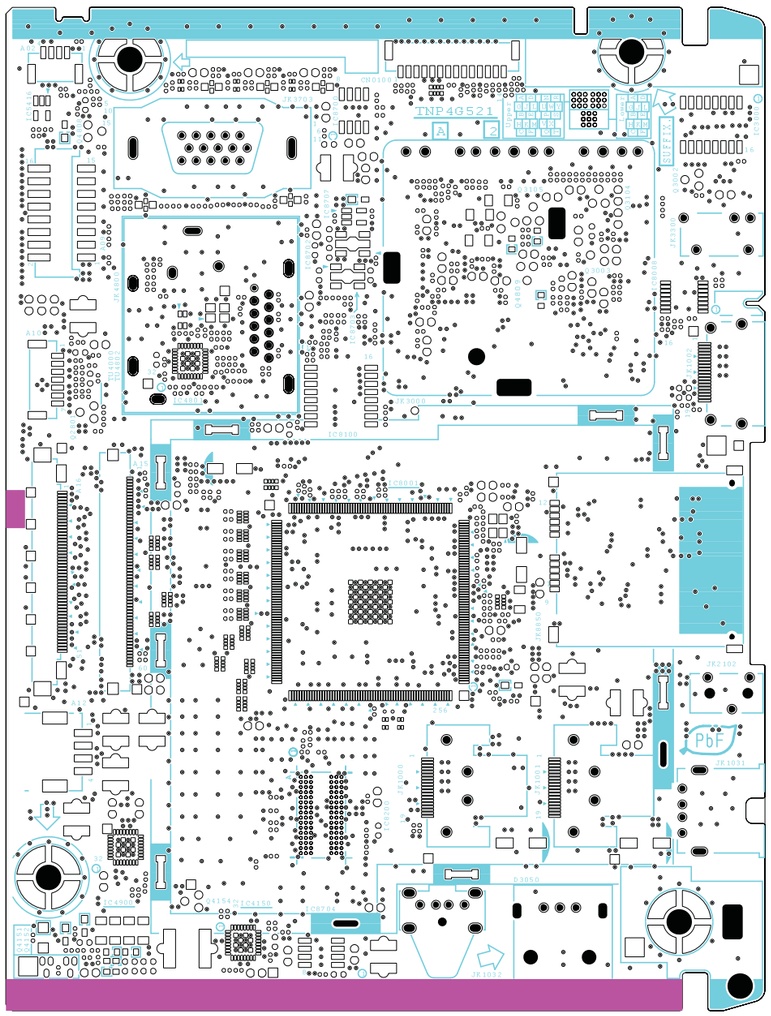
10.21. P-Board Schematic Diagram

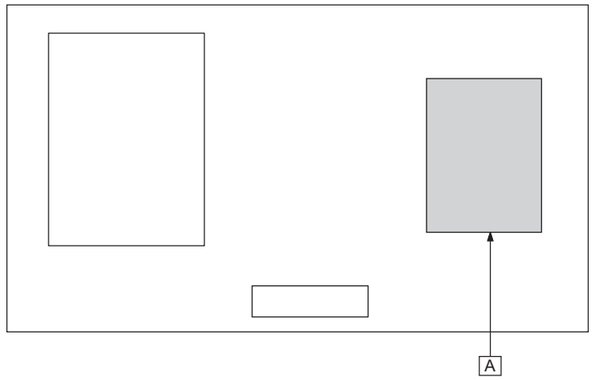


11 Printed Circuit Board

11.1. A-BOARD

A-BOARD (TOP COMPONENT SIDE)
TNPA4G521UA

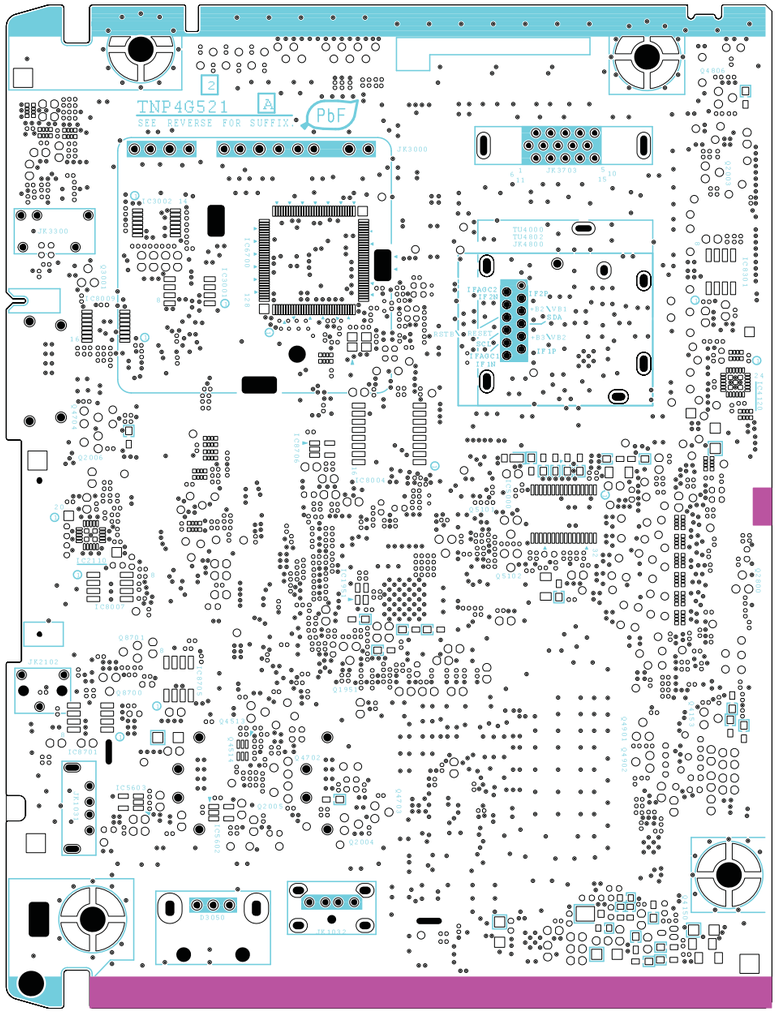


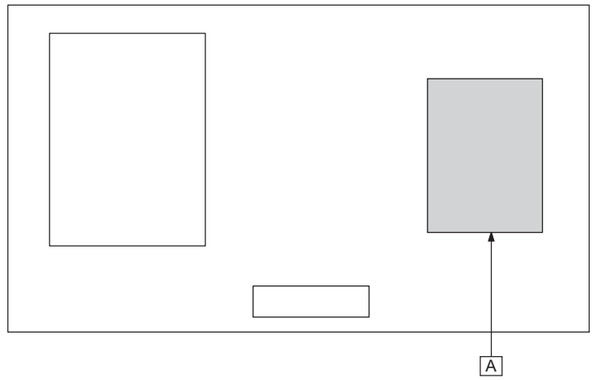


Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location
IC3000	D5	IC8100	B3	D3050	C1
IC4150	B1	IC8200	C2		
IC4801	B3	IC8700	C5		
IC4900	A1	IC8702	B4		
IC5416	A5	IC8703	B4		
IC8001	C3	IC8704	B1		
IC8008	D4	IC8707	B4		

A-BOARD (BOTTOM COMPONENT SIDE)
TNPA4G521UA

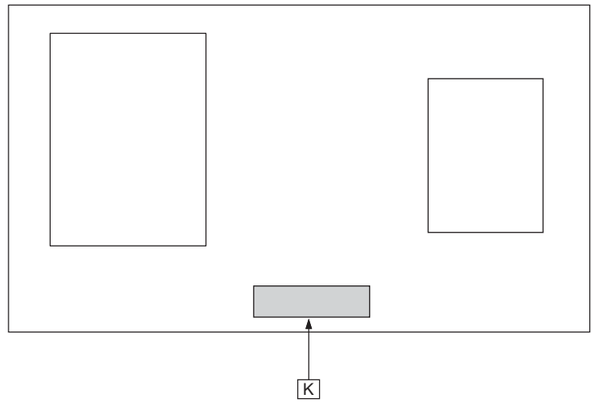




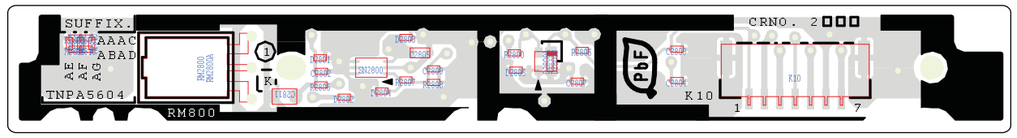
Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location
IC1951	C3	IC6700	B4	D3050	B1
IC2110	A3	IC8004	C3		
IC3001	B4	IC8007	A2		
IC3002	B4	IC8009	A4		
IC4120	D3	IC8301	D4		
IC5000	C3	IC8701	A2		
IC5602	B1	IC8705	B2		
IC5603	B2	IC8706	B3		

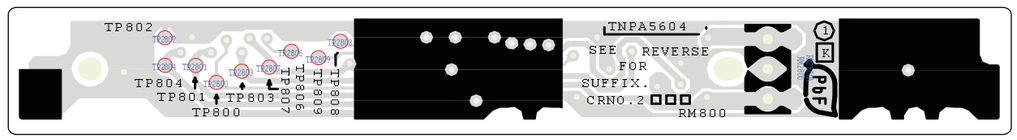
11.2. K-BOARD



K-BOARD (TOP COMPONENT SIDE)
TNPA5604



K-BOARD (BOTTOM COMPONENT SIDE)
TNPA5604

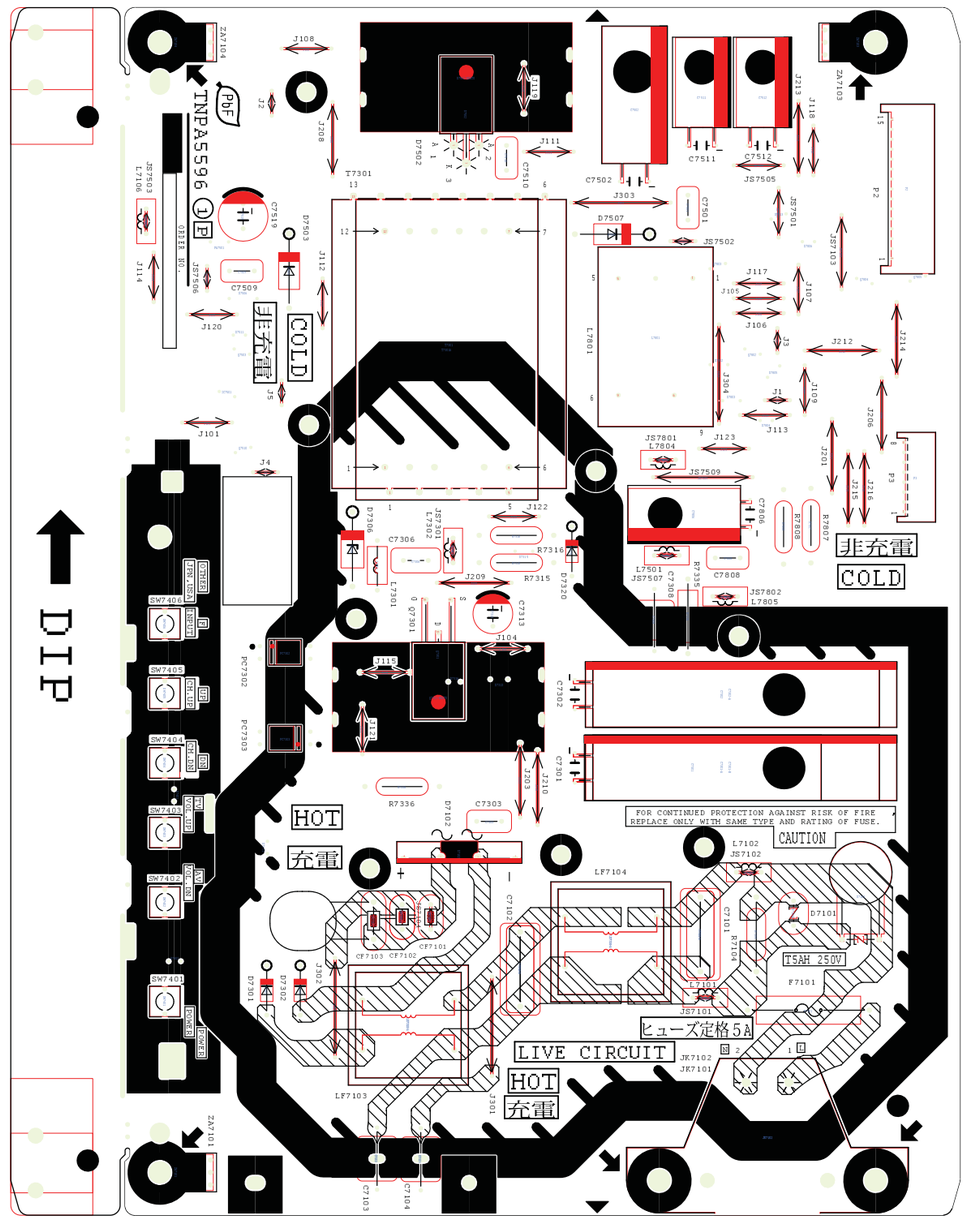


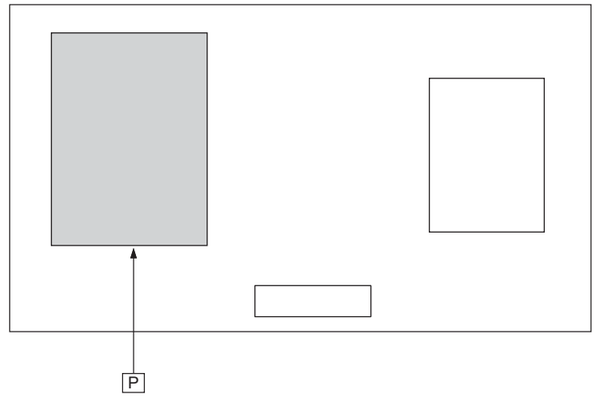
Parts Location

Ref.No	Location
D2800A	D4
D2800B	D4
D2801	C4
D2802	C4
D2803	D4
D2804	D4
D2805	D4

11.3. P-BOARD

P-BOARD (TOP COMPONENT SIDE)
TNPA5596

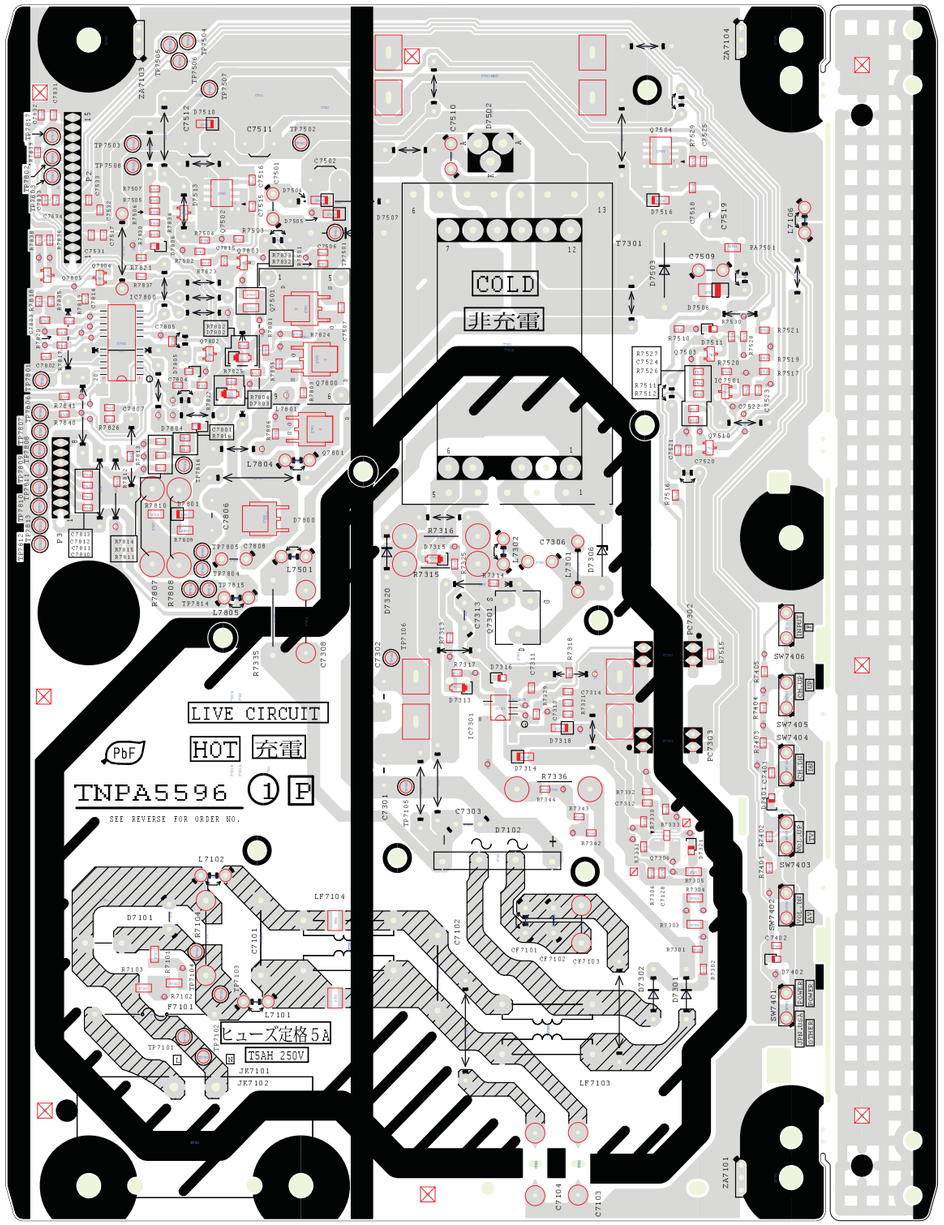


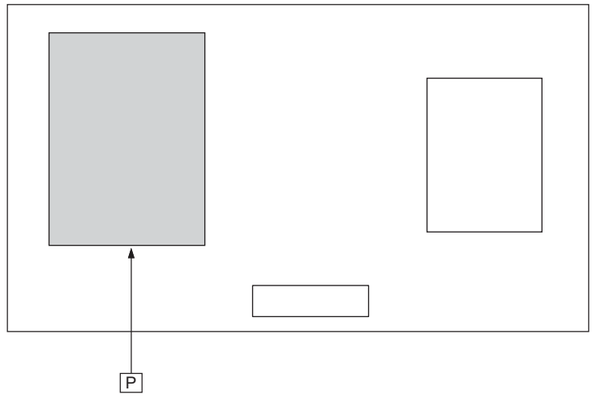


Parts Location

Ref.No	Location
D7101	E2
D7102	C2
D7301	B2
D7302	B2
D7306	C4
D7320	C4
D7503	B5
D7507	D5

P-BOARD (BOTTOM COMPONENT SIDE)
TNPA5596





Parts Location

Ref.No	Location	Ref.No	Location	Ref.No	Location	Ref.No	Location
IC7301	C3	D7301	D2	D7401	D3	D7513	B5
IC7501	D4	D7302	D2	D7402	D2	D7516	D5
IC7800	B5	D7306	D4	D7502	C6	D7800	B4
		D7313	C3	D7503	D5	D7801	B4
		D7314	C3	D7504	B5	D7802	B5
		D7315	C4	D7505	B5	D7803	B4
		D7316	C3	D7506	D5	D7804	B4
		D7318	C3	D7507	C5	D7805	B4
		D7320	C3	D7510	B6	D7806	B5
		D7321	D2	D7511	D5		

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

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

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

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

12.2.2. Electrical Replacement Parts List

Note: All part will be supplied by PAVCKM.

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
		CAPACITOR		
	C2008	F1JZZ1060001	C 10UF	
	C2010	F1G1C1030008	C 0.01UF , 16V	
	C2802	F1G1C1030008	C 0.01UF , 16V	
	C2805	F1H1C104A041	C 0.1UF , 16V	
	C2811	F1J1A106A087	C 10UF , 10V	
	C3093	F1G1C1030008	C 0.01UF , 16V	
	C3095	F1G1C1030008	C 0.01UF , 16V	
	C3097	F1G1C1030008	C 0.01UF , 16V	
	C3101	F1H1A225A051	C 2.2UF , 10V	
	C3102	F1H1A225A051	C 2.2UF , 10V	
	C3108	F1G1H100A833	C 10PF , 50V	
	C3109	F1G1H100A833	C 10PF , 50V	
	C3110	F1G1H100A833	C 10PF , 50V	
	C3125	F1G1A473A053	C 0.047UF , 10V	
	C3169	F1J1A106A110	C 10UF , 10V	
	C3170	F1J1A106A110	C 10UF , 10V	
	C3171	F1G1C1030008	C 0.01UF , 16V	
	C3172	F1G1C1030008	C 0.01UF , 16V	
	C3173	F1G1H152A830	C 1500PF , 50V	
	C3174	F1G1C1030008	C 0.01UF , 16V	
	C3175	F1G1H152A830	C 1500PF , 50V	
	C3176	F1G1C1030008	C 0.01UF , 16V	
	C3177	F1G1C1030008	C 0.01UF , 16V	
	C3179	F1G1H100A833	C 10PF , 50V	
	C3180	F1G1H100A833	C 10PF , 50V	
	C3181	F1G1H100A833	C 10PF , 50V	
	C3186	F1G1A473A069	C 0.047UF , 10V	
	C3198	F1J1A106A110	C 10UF , 10V	
	C3199	F1J1A106A110	C 10UF , 10V	
	C4004	F1J1A106A087	C 10UF , 10V	
	C4085	F1G1C104A077	C 0.1UF , 16V	
	C4122	F1G1C104A077	C 0.1UF , 16V	
	C4123	F1G1C104A077	C 0.1UF , 16V	
	C4124	F1G1C104A077	C 0.1UF , 16V	
	C4125	F1G1C104A077	C 0.1UF , 16V	
	C4126	F1G1C104A077	C 0.1UF , 16V	
	C4127	F1G1C104A077	C 0.1UF , 16V	
	C4128	F1J1A106A087	C 10UF , 10V	
	C4129	F1G1C104A077	C 0.1UF , 16V	
	C4130	F1G1C104A077	C 0.1UF , 16V	
	C4131	F1G1C104A077	C 0.1UF , 16V	
	C4132	F1G1C104A077	C 0.1UF , 16V	
	C4133	F1G1C104A077	C 0.1UF , 16V	
	C4150	F1J1E475A267	C 4.7UF , 25V	
	C4151	F1G1C104A077	C 0.1UF , 16V	
	C4152	F1J1E105A287	C 1UF , 25V	
	C4153	F1H1H104B047	C 0.47UF , 25V	
	C4154	F1H1H104B047	C 0.47UF , 25V	
	C4155	F1H1H473B047	C 0.047UF , 50V	
	C4156	F1H1H473B047	C 0.047UF , 50V	
	C4157	F1H1H473B047	C 0.047UF , 50V	
	C4158	F1H1H104B047	C 0.47UF , 25V	
	C4159	F1H1H473B047	C 0.047UF , 50V	
	C4160	F1H1H104B047	C 0.47UF , 25V	
	C4161	F1J1E105A287	C 1UF , 25V	
	C4162	F1H1H104B047	C 0.47UF , 25V	
	C4163	F1K1E106A134	C 10UF , 25V	
	C4164	F1K1E106A134	C 10UF , 25V	
	C4165	F1K1E225A167	C 2.2UF , 25V	
	C4166	F1K1E225A167	C 2.2UF , 25V	
	C4167	F1K1E225A167	C 2.2UF , 25V	
	C4168	F1K1E225A167	C 2.2UF , 25V	
	C4169	F1H1H104B047	C 0.47UF , 25V	
	C4170	F1G1A105A047	C 1UF , 10V	
	C4174	F1G1H180A834	C 18PF , 50V	
	C4175	F1J1E475A257	C 4.7UF , 25V	
	C4176	F1J1E475A257	C 4.7UF , 25V	
	C4177	F1J1E475A257	C 4.7UF , 25V	
	C4178	F1J1E475A257	C 4.7UF , 25V	
	C4179	F1G1E472A144	C 4700PF , 25V	
	C4180	F1G1A105A047	C 1UF , 10V	
	C4181	F1J1E475A267	C 4.7UF , 25V	
	C4548	F1G1A105A047	C 1UF , 10V	
	C4801	F1G1A105A047	C 1UF , 10V	
	C4802	F1J1A106A110	C 10UF , 10V	
	C4803	F1G1A105A047	C 1UF , 10V	
	C4804	F1J1A106A110	C 10UF , 10V	
	C4856	F1H1C105A145	C 1UF , 16V	
	C4857	F1H1C105A145	C 1UF , 16V	
	C4877	F1G1H1020008	C 1000PF , 50V	
	C4878	F1G1C104A077	C 0.1UF , 16V	
	C4879	F1H1C105A145	C 1UF , 16V	
	C4881	F1G1H1020008	C 1000PF , 50V	
	C4882	F1G1H1020008	C 1000PF , 50V	
	C4883	F1G1H1020008	C 1000PF , 50V	
	C4884	F1G1H1020008	C 1000PF , 50V	
	C4885	F1G1H1020008	C 1000PF , 50V	
	C4886	F1G1H472A571	C 4700PF , 50V	
	C4887	F1G1H1020008	C 1000PF , 50V	
	C4890	F1G1H471A834	C 470PF , 50V	
	C4891	F1G1H471A834	C 470PF , 50V	
	C4894	F1G1H101A834	C 100PF , 50V	
	C4898	F1G1H330A834	C 33PF , 50V	
	C4899	F1G1H330A834	C 33PF , 50V	
	C4900	F1G1H221A830	C 220PF , 50V	
	C4903	F1G1E1030005	C 0.01UF , 25V	
	C4904	F1G1E1030005	C 0.01UF , 25V	
	C4905	F1G1E1030005	C 0.01UF , 25V	
	C4906	F1G1E1030005	C 0.01UF , 25V	
	C4918	F1G1C104A077	C 0.1UF , 16V	
	C4919	F1G1C104A077	C 0.1UF , 16V	
	C4920	F1G1C104A077	C 0.1UF , 16V	
	C4921	F1G1C104A077	C 0.1UF , 16V	
	C4922	F1JZZ1060001	C 10UF	
	C4923	F1J1E474A272	C 0.47UF , 25V	
	C4924	F1J1E474A272	C 0.47UF , 25V	
	C4925	F1JZZ1060001	C 10UF	
	C4926	F1JZZ1060001	C 10UF	
	C4927	F1J1E474A272	C 0.47UF , 25V	
	C4928	F1J1E474A272	C 0.47UF , 25V	
	C5004	F1G1A105A047	C 1UF , 10V	
	C5006	F1J1E105A287	C 1UF , 25V	
	C5020	F1H1A474A107	C 0.47UF , 10V	
	C5021	F1G1A105A047	C 1UF , 10V	
	C5022	F1G1A105A047	C 1UF , 10V	
	C5026	F1H1C105A145	C 1UF , 16V	
	C5171	F1G1C1030008	C 0.01UF , 16V	
	C5476	F1G1A105A047	C 1UF , 10V	
	C5477	F1G1A105A047	C 1UF , 10V	
	C5626	EEEHB0J221UP	C 220UF , 6.3V	
	C5629	F1G1C104A077	C 0.1UF , 16V	
	C5630	F1J1A106A087	C 10UF , 10V	
	C5631	F1G1C104A077	C 0.1UF , 16V	
	C6002	F1H1C105A145	C 1UF , 16V	
	C6003	F1H1C105A145	C 1UF , 16V	
	C6771	F1J1A106A087	C 10UF , 10V	
⚠	C7101	F0CAF104A105	C 0.1UF , 240V	
⚠	C7102	F0CAF104A105	C 0.1UF , 240V	
⚠	C7103	F1A2E471A003	C 470PF , 250V	
⚠	C7104	F1A2E471A003	C 470PF , 250V	
	C7301	F2A2E181A297	C 180UF , 250V	
	C7303	F1A3A102A060	C 1000PF , 1kV	
	C7306	F1B3D221A099	C 220PF , 1kV	
⚠	C7308	F1A2E102A004	C 1000PF , 250V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C7310	F1J1H103A900	C 0.01UF , 50V	
	C7311	F1J1H102A909	C 1000PF , 50V	
	C7312	F1J1H105A919	C 1UF , 50V	
	C7313	F2A1V470B660	C 47UF , 35V	
	C7314	F1J1H102A909	C 1000PF , 50V	
	C7501	F1A3A221A060	C 220PF , 1kV	
	C7502	F2A1J4710038	C 470UF , 63V	
	C7510	F1A3A471A060	C 470PF , 1kV	
	C7511	F2A1E6810033	C 680UF , 25V	
	C7512	F2A1E6810033	C 680UF , 25V	
	C7518	F1J1H104A902	C 0.1UF , 50V	
	C7519	F2A1C4710114	C 470UF , 16V	
	C7520	F1J1E105A287	C 1UF , 25V	
	C7521	F1J1E105A287	C 1UF , 25V	
	C7523	F1J1H104A902	C 0.1UF , 50V	
	C7525	F1J1H104A902	C 0.1UF , 50V	
	C7801	F1J1H103A702	C 0.01UF , 50V	
	C7802	F1J1H223A900	C 0.022UF , 50V	
	C7803	F1J1H474A757	C 0.47UF , 50V	
	C7804	F1J1E105A287	C 1UF , 25V	
	C7805	F1J1E105A287	C 1UF , 25V	
	C7806	F2A2C470A222	C 47UF , 160V	
	C7807	F1J1H103A900	C 0.01UF , 50V	
	C7808	F1A3A471A060	C 470PF , 1kV	
	C8002	F1G1C104A077	C 0.1UF , 16V	
	C8006	F1G1C104A077	C 0.1UF , 16V	
	C8013	F1G1C104A077	C 0.1UF , 16V	
	C8014	F1G1A105A047	C 1UF , 10V	
	C8016	F1G1C104A077	C 0.1UF , 16V	
	C8019	F1J1A106A087	C 10UF , 10V	
	C8020	F1G1A105A047	C 1UF , 10V	
	C8021	F1G1C104A077	C 0.1UF , 16V	
	C8027	F1G1C104A077	C 0.1UF , 16V	
	C8031	F1G1C104A077	C 0.1UF , 16V	
	C8032	F1G1C104A077	C 0.1UF , 16V	
	C8041	F1G1C104A077	C 0.1UF , 16V	
	C8050	F1G1C104A077	C 0.1UF , 16V	
	C8051	F1G1C104A077	C 0.1UF , 16V	
	C8053	F1G1C104A077	C 0.1UF , 16V	
	C8062	F1G1C104A077	C 0.1UF , 16V	
	C8065	F1G1C104A077	C 0.1UF , 16V	
	C8066	F1J1C475A225	C 4.7UF , 16V	
	C8067	F1G1C104A077	C 0.1UF , 16V	
	C8068	F1G1A105A047	C 1UF , 10V	
	C8069	F1G1C104A077	C 0.1UF , 16V	
	C8070	F1G1E1030005	C 0.01UF , 25V	
	C8079	F1G1C104A077	C 0.1UF , 16V	
	C8080	F1G1C104A077	C 0.1UF , 16V	
	C8085	F1G1C104A077	C 0.1UF , 16V	
	C8095	F1J0G2260001	C 22UF , 4V	
	C8097	F1J0G2260001	C 22UF , 4V	
	C8098	F1J0G2260001	C 22UF , 4V	
	C8099	F1J0G2260001	C 22UF , 4V	
	C8100	F1J1A106A087	C 10UF , 10V	
	C8101	F1J1A106A087	C 10UF , 10V	
	C8103	F1G1C104A077	C 0.1UF , 16V	
	C8106	F1G1C104A077	C 0.1UF , 16V	
	C8114	F1G1C104A077	C 0.1UF , 16V	
	C8115	F1G1C104A077	C 0.1UF , 16V	
	C8117	F1G1C104A077	C 0.1UF , 16V	
	C8127	F1G1C104A077	C 0.1UF , 16V	
	C8129	F1H1A225A051	C 2.2UF , 10V	
	C8131	F1H1A225A051	C 2.2UF , 10V	
	C8140	F1G1H6R00009	C 6PF , 50V	
	C8142	F1G1H5R0A732	C 5PF , 50V	
	C8213	F1G1C104A077	C 0.1UF , 16V	
	C8215	F1G1C104A077	C 0.1UF , 16V	
	C8216	F1G1C104A077	C 0.1UF , 16V	
	C8228	F1J1A106A087	C 10UF , 10V	
	C8229	F1G1C104A077	C 0.1UF , 16V	
	C8230	F1G1C104A077	C 0.1UF , 16V	
	C8231	F1G1C104A077	C 0.1UF , 16V	
	C8232	F1G1C104A077	C 0.1UF , 16V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C8233	F1G1C104A077	C 0.1UF , 16V	
	C8234	F1G1C104A077	C 0.1UF , 16V	
	C8413	F1G1C104A077	C 0.1UF , 16V	
	C8703	F1J1A106A087	C 10UF , 10V	
	C8709	F1J1A106A087	C 10UF , 10V	
	C8710	F1J1A106A087	C 10UF , 10V	
	C8711	F1JZZ1060001	C 10UF	
	C8713	F1G1H821A830	C 820PF , 50V	
	C8714	F1H1A225A051	C 2.2UF , 10V	
	C8715	F1H1A225A051	C 2.2UF , 10V	
	C8720	F1JZZ1060001	C 10UF	
	C8721	F1JZZ1060001	C 10UF	
	C8722	F1JZZ1060001	C 10UF	
	C8723	F1JZZ1060001	C 10UF	
	C8725	F1G1H821A830	C 820PF , 50V	
	C8726	F1J0G2260001	C 22UF , 4V	
	C8727	F1J1A106A087	C 10UF , 10V	
	C8728	F1JZZ1060001	C 10UF	
	C8730	F1JZZ1060001	C 10UF	
	C8731	F1JZZ1060001	C 10UF	
	C8732	F1J0G2260001	C 22UF , 4V	
	C8735	F1G1H821A830	C 820PF , 50V	
	C8739	F1G1H821A830	C 820PF , 50V	
	C8773	F1J1A106A087	C 10UF , 10V	
	C8775	F1G1A105A047	C 1UF , 10V	
	C8776	F1J1A106A110	C 10UF , 10V	
		DIODE		
	D2800B	B3AAB0000379	LED	
	D3050	K7AAAY000015	DIODE	
	D4000	B0BC4R700007	DIODE	
	D4150	B0JCDE000006	DIODE	
	D4151	DB2J30900L	DIODE	
	D4152	B0JCDE000006	DIODE	
	D4153	B0JCDE000006	DIODE	
	D4154	B0JCDE000006	DIODE	
	D4155	DZ2J330M0L	DIODE	
	D4156	DA2J10100L	DIODE	
	D4157	DA2J10100L	DIODE	
	D4159	B0JCDE000006	DIODE	
	D4160	B0JCDE000006	DIODE	
	D4161	B0JCDE000006	DIODE	
	D4162	B0JCDE000006	DIODE	
	D4163	DZ2J200M0L	DIODE	
	D4165	B0BC01000035	DIODE	
	D4166	DA2J10100L	DIODE	
	D4167	DA2J10100L	DIODE	
	D4168	DA2J10100L	DIODE	
	D4172	B0JCPG000032	DIODE	
	D4173	B0BC01700030	DIODE	
	D4174	DZ2J220M0L	DIODE	
	D4175	DA2J10100L	DIODE	
	D4703	B0JCME000076	DIODE	
	D4723	DB2J30900L	DIODE	
	D4725	DB2J30900L	DIODE	
	D4802	B0ZBZ0000156	DIODE	
	D4834	DA2J10100L	DIODE	
	D5172	DZ2J180M0L	DIODE	
	D5173	DA2J10100L	DIODE	
	D5180	DZ2J033M0L	DIODE	
	D5480	DB2J30900L	DIODE	
	D7101A	ERZVA7V471	SURGE ABSORBER	
	D7102	B0FBAR000047	DIODE	
	D7301	B0HAGQ000001	DIODE	
	D7302	B0HAGQ000001	DIODE	
	D7306	B0BB140A0011	DIODE	
	D7313	B0ECKM000053	DIODE	
	D7315	B0ECKM000053	DIODE	
	D7316	DZ2J300M0L	DIODE	
	D7320	B0JAME000126	DIODE	
	D7321	DZ2J068M0L	DIODE	
	D7502	B0JBSL000057	DIODE	
	D7506	B0JCNG000003	DIODE	
	D7507	B0EALP000012	DIODE	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	D7511	DZ2J100M0L	DIODE	
	D7800	B0FCAM000001	DIODE	
	D7801	B0BC015A0336	DIODE	
	D7802	B0ECKM000053	DIODE	
	D7803	B0ECKM000053	DIODE	
	D7804	DB2J41100L	DIODE	
	D7805	DZ2J110M0L	DIODE	
		INTEGRATED CIRCUITS		
	IC3000	C0JBAR000413	IC	
	IC4120	C0FBBY000086	IC	
	IC4150	C0DBAYY01246	IC	
	IC4801	C1AB00003858	IC	
	IC4900	C1AB00003871	IC	
	IC5000	AN34043A-VF	IC	
	IC5416	C0DBGYY02973	IC	
	IC5603	C0DBZYY00368	IC	
	IC7301	C0DBBYY00047	IC	
	IC7501	C0DBZYY00531	IC	
	IC7800	C1ZBZ0004572	IC	
	IC8001	C1AB00003884	IC	
	IC8004	TVRS666S	IC	
	IC8007	C3EBJY000048	IC	
	IC8009	C0ZBZ0001747	IC	
	IC8200	C3ABTY000059	IC	
	IC8700	C0DBAYY01273	IC	
	IC8701	C0DBAYY01273	IC	
	IC8702	C0DBGYY01826	IC	
	IC8703	C0DBGYY01631	IC	
	IC8704	C0DBAYY01273	IC	
	IC8705	C0DBAYY01273	IC	
	IC8706	C0CBCBC00227	IC	
		COILS		
	L2001	J0JYC0000328	FILTER	
	L3101	J0ZZB0000142	FILTER	
	L3102	J0ZZB0000142	FILTER	
	L3103	J0ZZB0000142	FILTER	
	L3122	J0JCC0000287	BEAD CORE	
	L3123	J0JCC0000287	BEAD CORE	
	L3124	J0JCC0000287	BEAD CORE	
	L3127	J0JYC0000331	BEADS CORES	
	L3128	J0JYC0000331	BEADS CORES	
	L4152	J0JHC0000046	EMI FILTER	
	L4153	G1C330MA0234	SURFACE MOUNT INDUCTOR	
	L4824	G1CR22JA0097	COIL	
	L4825	G1E000000092	FE1	
	L4826	G1CR22JA0097	COIL	
	L4827	G1CR27JA0097	COIL	
	L4828	G1C82NJ00010	COIL	
	L4829	G1CR22JA0097	COIL	
	L4830	G1CR22JA0097	COIL	
	L4833	G1CR22JA0097	COIL	
	L4834	G1CR22JA0097	COIL	
	L4900	G1C150MA0533	INDUCTOR	
	L4901	G1C150MA0533	INDUCTOR	
	L4902	G1C150MA0533	INDUCTOR	
	L4903	G1C150MA0533	INDUCTOR	
	L4906	J0JBC0000116	BEAD CORE	
	L4907	J0JBC0000116	BEAD CORE	
	L4908	J0JBC0000116	BEAD CORE	
	L4909	J0JBC0000116	BEAD CORE	
	L4910	J0JHC0000078	COIL	
	L4911	J0JHC0000078	COIL	
	L4912	J0JHC0000078	COIL	
	L4913	J0JHC0000078	COIL	
	L5606	J0JHC0000045	COIL	
	L7101	J0JKB0000034	FILTER FOR EMI/EMC	
	L7102	J0JKB0000034	FILTER FOR EMI/EMC	
	L7301	J0JKA0000038	FILTER FOR EMI/EMC	
	L7501	J0JKB0000034	FILTER FOR EMI/EMC	
	L7801	G0C900Z00004	INDUCTOR	
	L8037	J0JCC0000287	CHIP BEADS	
	L8039	J0JHC0000045	COIL	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L8051	J0JCC0000245	BEADS CORE	
	L8700	G1C3R3ZA0240	INDUCTOR	
	L8701	G1C4R7ZA0240	INDUCTOR	
	L8703	G1C2R2ZA0240	COIL	
	L8704	G1C2R2ZA0240	COIL	
		TRANSISTOR		
	Q2003	B1ABCE000015	TRANSISTOR	
	Q2004	B1ABCE000015	TRANSISTOR	
	Q2005	B1ABCE000015	TRANSISTOR	
	Q2006	B1ABCE000015	TRANSISTOR	
	Q2800	B1ABCE000015	TRANSISTOR	
	Q3001	B1ABCE000015	TRANSISTOR	
	Q4150	DSC500100L	TRANSISTOR	
	Q4151	DSA500100L	TRANSISTOR	
	Q4152	DSA500100L	TRANSISTOR	
	Q4153	B1ABCE000015	TRANSISTOR	
	Q4154	B1CFQD000008	TRANSISTOR	
	Q4513	B1ADCF000194	TRANSISTOR	
	Q4514	B1HFCEA00001	TRANSISTOR	
	Q4702	B1ABCE000015	TRANSISTOR	
	Q4703	B1ABCE000015	TRANSISTOR	
	Q4704	B1ABCE000015	TRANSISTOR	
	Q4806	B1ADCE000027	TRANSISTOR	
	Q4808	B1ABBE000003	TRANSISTOR	
	Q4901	B1ABCE000015	TRANSISTOR	
	Q4902	B1ABCE000015	TRANSISTOR	
	Q5101	B1ABBE000003	TRANSISTOR	
	Q5102	B1ABBE000003	TRANSISTOR	
	Q7301	B1CERR000067	TRANSISTOR	
	Q7304	B1HFCEA00001	TRANSISTOR	
	Q7502	B1CHRE000005	TRANSISTOR	
	Q7504	B1CHRE000005	TRANSISTOR	
	Q7510	B1ABBE000003	TRANSISTOR	
	Q7800	B1CFRM000028	TRANSISTOR	
	Q7801	B1CFRM000028	TRANSISTOR	
	Q7802	B1ABGJ000007	TRANSISTOR	
	Q8700	B1ABBE000003	TRANSISTOR	
	Q8701	B1ABBE000003	TRANSISTOR	
		RESISTOR		
	R0900	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0901	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0906	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0907	D0GA272JA023	C 2.7KOHM ,J, 1/16W	
	R0944	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0945	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0947	D0GA680JA023	C 68OHM ,J, 1/16W	
	R0970	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R0971	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R0972	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0973	D0GA101JA023	C 100OHM ,J, 1/16W	
	R0974	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R0975	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R1951	D0GA680JA023	C 68OHM ,J, 1/16W	
	R1953	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R1955	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R2006	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R2009	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R2012	D0GA222JA023	C 2.2KOHM ,J, 1/16W	
	R2018	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2019	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2026	D1BB5601A055	C 5.6KOHM , 1/16W	
	R2027	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R2029	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R2031	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2033	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R2034	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2035	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2036	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2042	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R2046	D1BA7151A023	C 7.15KOHM , 1/16W	
	R2801	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R2805	D1BA1201A023	1.2KOHM , 1/16W	
	R2806	D0GA470JA023	C 470OHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R2807	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R2808	D0GA183JA023	18KOHM ,J, 1/16W	
	R3070	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3071	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3072	EXB28V474JX	470KOHM ,J, 1/16W	
	R3073	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R3099	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R3103	D1BD75R0A066	C 75OHM , 1/16W	
	R3105	D1BD75R0A066	C 75OHM , 1/16W	
	R3109	EXB28V474JX	470KOHM ,J, 1/16W	
	R3120	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R3121	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3122	D0GA560JA023	C 56OHM ,J, 1/16W	
	R3123	EXB28V101JX	100OHM ,J, 1/16W	
	R3124	D0GA560JA023	C 56OHM ,J, 1/16W	
	R3127	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R3175	D0GA180JA023	18OHM ,J, 1/16W	
	R3176	D0GA180JA023	18OHM ,J, 1/16W	
	R3178	D0GA180JA023	18OHM ,J, 1/16W	
	R3192	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3193	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3194	D0GA560JA023	C 56OHM ,J, 1/16W	
	R3195	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3196	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3199	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3200	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3201	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R3202	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R3203	D1BD75R0A066	C 75OHM , 1/16W	
	R3205	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3206	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R3214	D1BF75R0A073	C 75OHM , 1/16W	
	R3216	D0GA101JA023	C 100OHM ,J, 1/16W	
	R3219	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3220	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R3223	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R3228	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R3974	D0GAR00J0005	C 0OHM ,J, 1/16W	
	R4025	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4027	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4028	EXB28V151JX	F 150OHM ,J, 1/16W	
	R4031	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4032	EXB28V471JX	470OHM ,J, 1/16W	
	R4034	D0GA471JA023	C 470OHM ,J, 1/16W	
	R4121	EXB28V100JX	10OHM ,J, 1/16W	
	R4122	EXB28V100JX	10OHM ,J, 1/16W	
	R4123	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4124	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4125	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4126	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4127	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4128	D0GA100JA023	C 10OHM ,J, 1/16W	
	R4150	D0GD391JA052	C 390OHM ,J, 1/16W	
	R4151	D1BA2201A023	C 2.2KOHM , 1/16W	
	R4152	D1BA3002A023	C 30KOHM , 1/16W	
	R4153	D1BA2001A023	C 2KOHM , 1/16W	
	R4154	D1BA1002A023	C 10KOHM , 1/16W	
	R4155	D1BA1002A023	C 10KOHM , 1/16W	
	R4157	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R4158	D0GD271JA052	C 270OHM ,J, 1/16W	
	R4159	D1BA3301A023	C 3.3KOHM ,J, 1/16W	
	R4160	D1BA3301A023	C 3.3KOHM ,J, 1/16W	
	R4161	D1BA3601A023	C 3.3KOHM ,J, 1/16W	
	R4162	D1BA2201A023	C 2KOHM , 1/16W	
	R4166	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4167	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4168	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4169	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4170	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4171	D1BA3002A023	C 30KOHM , 1/16W	
	R4172	D1BA1203A023	C 120KOHM , 1/16W	
	R4181	D1BA1002A023	C 10KOHM , 1/16W	
	R4184	D1BA2202A023	C 22KOHM ,J, 1/16W	

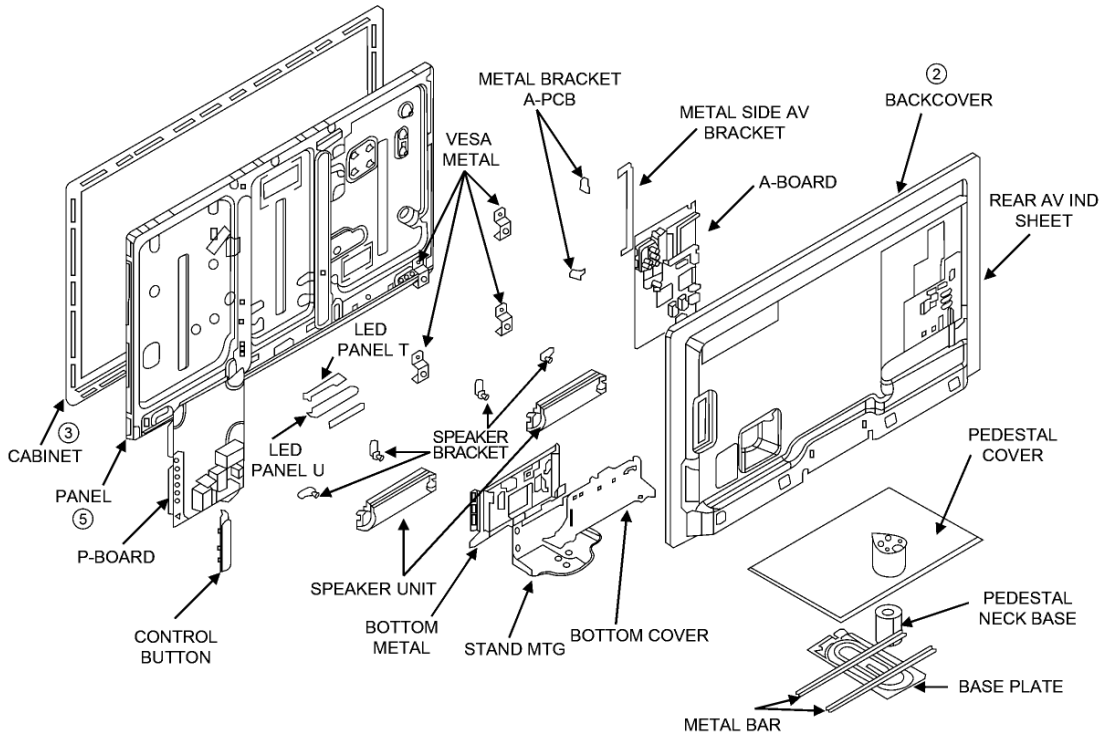
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R4548	D0GA220JA023	C 22OHM ,J, 1/16W	
	R4549	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4550	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4551	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4552	D0GA560JA023	C 56OHM ,J, 1/16W	
	R4554	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4560	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4563	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4715	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4716	D0GB101JA069	100OHM ,J, 1/16W	
	R4717	D0GB101JA069	100OHM ,J, 1/16W	
	R4718	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4719	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4720	D0GB101JA069	100OHM ,J, 1/16W	
	R4721	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4722	D0GB101JA069	100OHM ,J, 1/16W	
	R4723	D0GB101JA069	100OHM ,J, 1/16W	
	R4724	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4725	D0GB101JA069	100OHM ,J, 1/16W	
	R4726	D0GB101JA069	100OHM ,J, 1/16W	
	R4727	D0GB101JA069	100OHM ,J, 1/16W	
	R4744	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4745	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4746	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4747	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4748	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4749	D0GA220JA023	C 22OHM ,J, 1/16W	
	R4753	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4754	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4755	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4756	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R4757	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4845	D0GA331JA023	330OHM ,J, 1/16W	
	R4859	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4860	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4866	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R4867	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4875	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4876	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R4884	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4885	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4888	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R4891	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4892	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4898	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4899	D0GA101JA023	C 100OHM ,J, 1/16W	
	R4912	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4913	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4914	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4915	D0GA151JA023	C 150OHM ,J, 1/16W	
	R4916	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4917	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4918	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4919	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R4920	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R4922	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R5002	D0GA683JA023	68KOHM ,J, 1/16W	
	R5003	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5006	D0GA563JA023	C 56KOHM ,J, 1/16W	
	R5007	D0GA223JA023	C 22KOHM ,J, 1/16W	
	R5009	D1BA5602A023	C 56KOHM ,J, 1/16W	
	R5010	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R5012	D1BA2202A023	C 22KOHM ,J, 1/16W	
	R5032	EXB28V103JX	10KOHM ,J, 1/16W	
	R5033	EXB28V560JX	C 56OHM ,J, 1/16W	
	R5034	D0GA560JA023	C 56OHM ,J, 1/16W	
	R5035	D0GA560JA023	C 56OHM ,J, 1/16W	
	R5036	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5037	EXB28V560JX	C 56OHM ,J, 1/16W	
	R5038	EXB28V560JX	C 56OHM ,J, 1/16W	
	R5040	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5051	D0GA273JA023	C 27KOHM ,J, 1/16W	
	R5054	D0GA223JA023	C 22KOHM ,J, 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R5059	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R5063	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R5175	D0GA680JA023	C 68OHM ,J, 1/16W	
	R5176	D0GA683JA023	C 68OHM ,J, 1/16W	
	R5177	D0GA222JA023	C 2.2KOHM , 1/16W	
	R5178	D0GA222JA023	C 2.2KOHM , 1/16W	
	R5179	D0GA183JA023	C 18KOHM ,J, 1/16W	
	R5182	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5183	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5184	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5185	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R5606	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5607	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5608	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R5609	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R6004	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R6005	D0GA332JA023	C 3.3KOHM ,J, 1/16W	
	R7301	D1BD1803A066	C 180KOHM , 1/16W	
	R7302	D1BD1803A066	C 180KOHM , 1/16W	
	R7303	ERJ8ENF2204V	C 2.2MOHM , 1/16W	
	R7304	ERJ8ENF2204V	C 2.2MOHM , 1/16W	
	R7305	ERJ8ENF2204V	C 2.2MOHM , 1/16W	
	R7306	D1BD6203A066	620KOHM , 1/16W	
	R7313	D0GD220JA059	C 22OHM ,J, 1/16W	
	R7314	D0GD681JA052	C 68OHM ,J, 1/16W	
	R7315	ERX1SJR33V	0.33OHM ,J, 1W	
	R7316	ERX1SJR39V	0.39OHM ,J, 1W	
	R7317	D0GD680JA059	C 68OHM ,J, 1/16W	
	R7318	D0GD471JA052	C 470OHM ,J, 1/16W	
	R7325	D0GD4R7JA059	C 4.7KOHM ,J, 1/16W	
	R7329	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7330	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7331	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7332	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7333	D0GD822JA052	C 8.2KOHM ,J, 1/16W	
⚠	R7335	D0B1106JA033	10MOHM ,J, 1W	
	R7342	D0GD182JA052	C 1.8KOHM ,J, 1/16W	
	R7343	D0GD182JA052	C 1.8KOHM ,J, 1/16W	
	R7344	D0GD182JA052	C 1.8KOHM ,J, 1/16W	
	R7401	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7402	D1BD9100A066	C 910OHM , 1/16W	
	R7403	D1BD1401A066	C 1.4KOHM , 1/16W	
	R7404	D1BD1801A066	C 1.8KOHM , 1/16W	
	R7405	D1BD5601A066	C 5.6KOHM , 1/16W	
	R7503	D0GD153JA052	C 15KOHM ,J, 1/16W	
	R7504	D0GD153JA052	C 15KOHM ,J, 1/16W	
	R7510	D0GD101JA052	C 100 ,J, 1/8W	
	R7511	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7512	D0GD472JA052	C 4.7KOHM ,J, 1/16W	
	R7515	D0GD222JA052	C 2.2KOHM ,J, 1/16W	
	R7516	D0GD472JA052	C 4.7KOHM ,J, 1/16W	
	R7517	D0GD222JA052	C 2.2KOHM ,J, 1/16W	
	R7519	D1BD5601A066	C 5.6KOHM , 1/16W	
	R7520	D1BD3301A066	C 3.3KOHM ,J, 1/16W	
	R7521	D1BD1202A066	C 12KOHM , 1/16W	
	R7528	D0GD103JA052	C 10KOHM ,J, 1/16W	
	R7529	D0GD154JA052	C 150KOHM ,J, 1/16W	
	R7801	D0GD100JA059	C 10OHM ,J, 1/16W	
	R7802	D0GD101JA052	C 100 ,J, 1/8W	
	R7803	D0GD100JA059	C 10OHM ,J, 1/16W	
	R7804	D0GD101JA052	C 100 ,J, 1/8W	
	R7805	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7806	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7807	ERX1SJR39V	0.39OHM ,J, 1W	
	R7808	ERX1SJR39V	0.39OHM ,J, 1W	
	R7811	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7812	D0GD472JA052	C 4.7KOHM ,J, 1/16W	
	R7813	D0GD304JA052	C 300KOHM ,J, 1/16W	
	R7814	D0GD304JA052	C 300KOHM ,J, 1/16W	
	R7815	D0GD304JA052	C 300KOHM ,J, 1/16W	
	R7816	D0GD203JA052	C 20KOHM ,J, 1/16W	
	R7817	D1BD4702A066	C 47KOHM ,J, 1/16W	
	R7818	D1BD3001A066	3KOHM , 1/16W	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R7819	D1BD1203A066	C 120KOHM , 1/16W	
	R7820	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7821	D0GD1R0JA035	C 1OHM ,J, 1/16W	
	R7822	D0GD102JA052	C 1KOHM ,J, 1/16W	
	R7824	D0GD204JA052	C 200KOHM ,J, 1/16W	
	R7825	D0GD204JA052	C 200KOHM ,J, 1/16W	
	R7826	D0GD473JA052	C 47KOHM ,J, 1/16W	
	R7830	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7835	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7840	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R7841	D0GDR00J0004	C 0OHM ,J, 1/16W	
	R8019	D0GA470JA023	C 470OHM ,J, 1/16W	
	R8099	D0GA102JA023	C 1KOHM ,J, 1/16W	
	R8100	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8101	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8103	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8105	D1BA2402A023	24KOHM , 1/16W	
	R8130	D1BF75R0A073	75OHM , 1/16W	
	R8132	D0GA104JA023	C 100KOHM ,J, 1/16W	
	R8137	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8150	D0GA330JA023	C 33OHM ,J, 1/16W	
	R8151	D0GA330JA023	C 33OHM ,J, 1/16W	
	R8152	D0GA330JA023	C 33OHM ,J, 1/16W	
	R8155	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8156	D0GA472JA023	C 4.7KOHM ,J, 1/16W	
	R8204	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8207	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8220	D0GA101JA023	C 100OHM ,J, 1/16W	
	R8222	D1BA2400A023	C 240OHM , 1/16W	
	R8224	EXB28V101JX	100OHM ,J, 1/16W	
	R8225	EXB28V101JX	100OHM ,J, 1/16W	
	R8226	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8227	D1BA1001A023	C 1KOHM ,J, 1/16W	
	R8240	D0GA103JA023	C 10KOHM ,J, 1/16W	
	R8242	EXB28V101JX	100OHM ,J, 1/16W	
	R8243	EXB28V101JX	100OHM ,J, 1/16W	
	R8244	EXB28V101JX	100OHM ,J, 1/16W	
	R8245	EXB28V101JX	100OHM ,J, 1/16W	
	R8700	D1BA6341A023	F 6.34KOHM , 1/16W	
	R8701	D1BA2001A023	C 2KOHM , 1/16W	
	R8704	D1BA1052A023	10.5KOHM , 1/16W	
	R8705	D1BA2001A023	C 2KOHM , 1/16W	
	R8708	D0GB2R2JA040	C 2.2OHM ,J, 1/16W	
	R8709	D0GB2R2JA040	C 2.2OHM ,J, 1/16W	
	R8730	D0GB2R2JA040	C 2.2OHM ,J, 1/16W	
	R8732	D1BA1071A023	1.07KOHM , 1/16W	
	R8734	D1BA2001A023	C 2KOHM , 1/16W	
	R8737	D0GB2R2JA040	C 2.2OHM ,J, 1/16W	
	R8739	D1BA1821A023	1.82KOHM , 1/16W	
	R8740	D1BA2001A023	C 2KOHM , 1/16W	
	R8741	D0GA153JA023	C 15KOHM ,J, 1/16W	
	R8742	D0GA152JA023	C 15KOHM ,J, 1/16W	
	R8743	D0GA473JA023	C 47KOHM ,J, 1/16W	
	R8744	D0GA153JA023	C 15KOHM ,J, 1/16W	
		TRANSFORMER		
⚠	T7301	G4DYA0000375	TRANSFORMER	
		OTHERS		
	A09	K1KY16BA0394	CONNECTOR	
	A10	K1KA07B00135	CONNECTOR	
	A12	K1KY04B00013	CONNECTOR	
	A15	K1MY60BA0526	CONNECTOR	
⚠	CF7101	D4CA94R0A001	TERMISTOR	
	CN0100	K1KA14A00248	CONNECTOR	
⚠	F7101	K5E502YY0001	FUSE	
	FL4000	EXC28CE201U	FILTER	
	FL4001	EXC28CE201U	FILTER	
	FL4003	EXC28CE201U	FILTER	
	FL4004	EXC28CE201U	FILTER	
	FL5001	EXC24CE900U	FILTER	
	J108	J0JKA0000038	FILTER FOR EMI/EMC	
	J112	J0JKA0000038	FILTER FOR EMI/EMC	
	J303	J0JKA0000024	FILTER FOR EMI/EMC	
	JK1000	K1FY119D0025	AV TERMINAL	

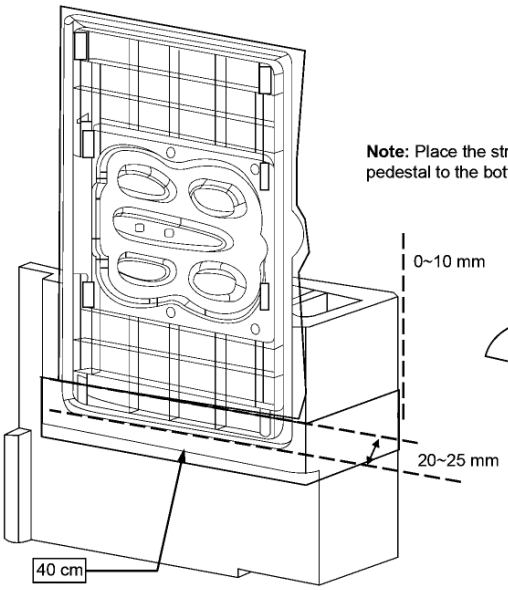
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	JK1001	K1FY119D0025	AV TERMINAL	
	JK1002	K1FY119E0050	AV TERMINAL	
	JK1031	K1FY104B0082	AV TERMINAL	
	JK3000	K1U812A00003	AV TERMINAL	
	JK3703	K1FY315A0014	AV TERMINAL	
	JK4800	K1ZZ00001531	AV TERMINAL	
	JK7102	K2AEYB000001	INLET/OUTLET (FOR AC POWER SOURCE)	
	JK8850	K1NA12E00016	CONNECTOR	
	JS0018	D0GAR00J0005	CHIP RESISTOR	
	JS0023	D0GAR00J0005	CHIP RESISTOR	
	K10	K1KA07A00292	CONNECTOR	
⚠	LF7103A	G0B153G00003	LINE FILTER	
⚠	LF7104A	G0B153G00003	LINE FILTER	
	P2	K1KY15BA0386	CONNECTOR	
	P3	K1KA08BA0061	CONNECTOR	
⚠	PA7501	K5H502Y00004	FUSE	
	PC7302	B3PAA0000363	PHOTO COUPLER	
	PC7303	B3PAA0000363	PHOTO COUPLER	
	RM2800	PNJ4815M01TV	REMOCON SENSOR	
	SN2800	B3JB00000116	PHOTO DETECTOR	
	SW7401	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	SW7402	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	SW7403	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	SW7404	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	SW7405	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	SW7406	EVQ11G05R	SWITCH (MX-7;15″& 21″)	
	X4800	H0J240500067	24MHZ XTAL NDK	
	X8301	H0J270500137	RESONATORS	
	ZA7101	K4AD01A00003	TERMINAL	
	ZA7103	K4AD01A00003	TERMINAL	

Model No. : TC-L32X5 Parts Location



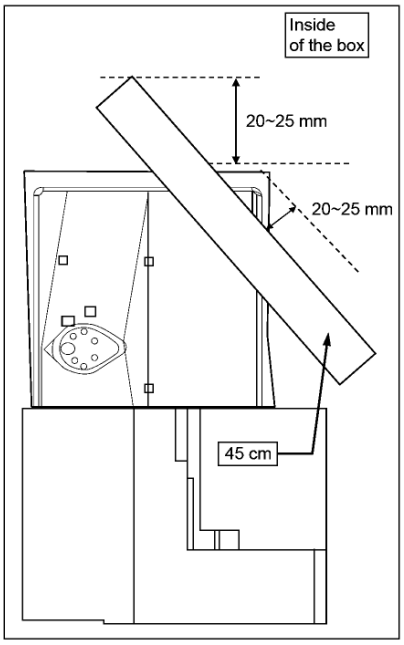
Model No. : TC-L32X5 Packing Exploded View 1

1. Place 2 strips of tape holding the pedestal as indicated below



Note: Place the strip of tape so it holds the pedestal to the bottom cushion.

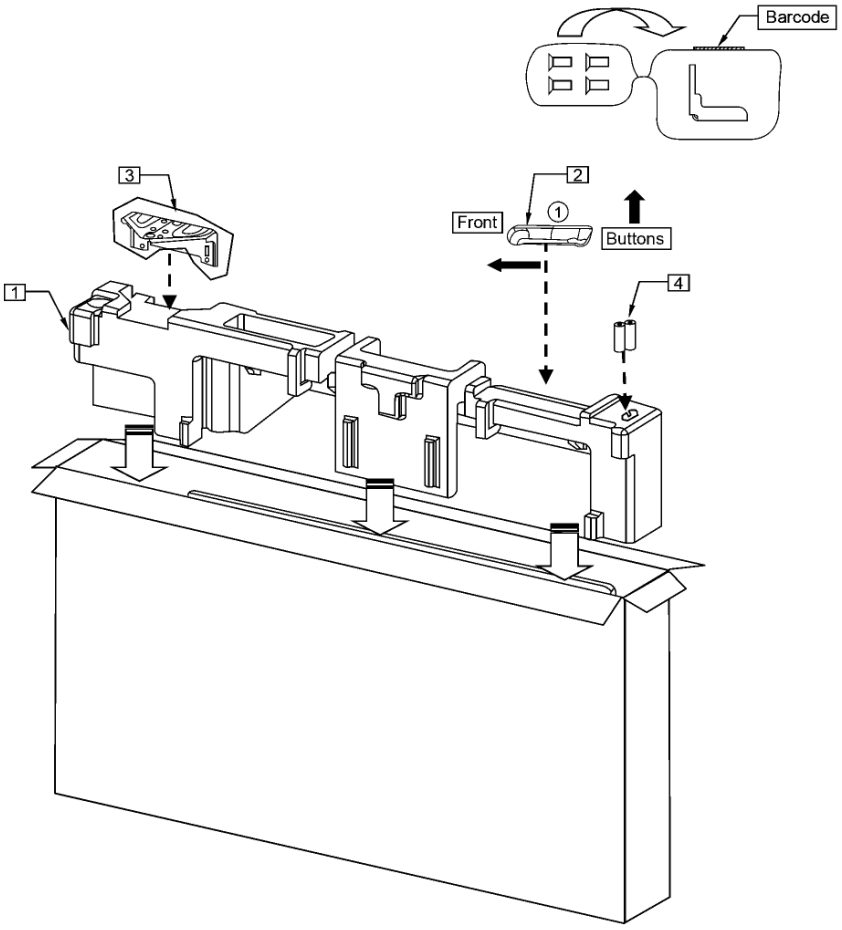
Note: Insert the cushion with the pedestal in the box; once they are placed inside the box, place a strip of tape diagonally as indicated in the diagram. This must be stuck to the pedestal and the inside of the box.



Model No. : TC-L32X5 Packing Exploded View 2

No.	Part num.	QUANT.	DESCRIPTION	CHECK
1		1	TOP CUSHION	1
2	N2QAYB000706	1	REMOTE CONTROL	
3	TBL5ZX03051	1	STAND ACC	
4		2	BATTERY	

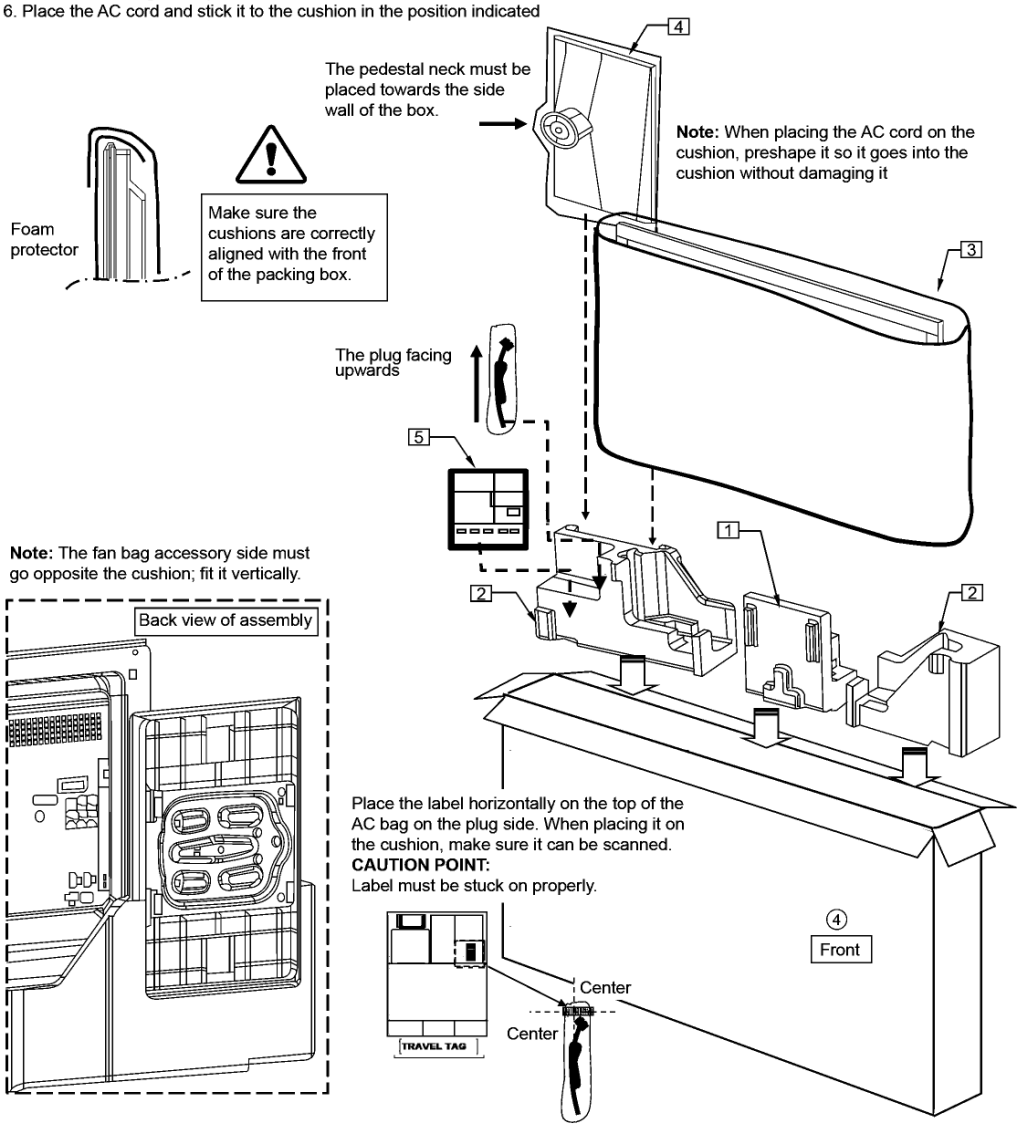
1. Place the cushions in the positions indicated.
2. Place the remote control on top of the cushion, making sure the buttons are facing upwards.
   The area behind the control must be fitted into the surface of the cushion.
3. Place the batteries in the position indicated.
4. Place the stand in the position indicated.



Model No. : TC-L32X5 Packing Exploded View 3

No.	Part num.	QUANT.	DESCRIPTION	CHECK
1		1	BOTTOM CENTER CUSHION	
2		1	BOTTOM CUSHION	
3		1	SET COVER	
4	TBL5ZX0278	1	PACKED STAND MTG	
5		1	ASSY, FAN BAG	
6	K2CB2YY00065	1	AC CORD	

1. Place the bottom cushions in the box
2. Place the set inside the protective bag
3. Place the pedestal on the left-hand bottom cushion
4. Slide the set into the bottom cushions
5. Place the fan bag in the position indicated
6. Place the AC cord and stick it to the cushion in the position indicated



Model No. : TC-L32X5 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
⚠		K2CB2YY00065	AC CORD		
		L0EYAA000006	SPEAKER UNIT L		
		L0EYAA000007	SPEAKER UNIT R		
	1	N2QAYB000706	REMOTE TRANSMITTER		
		TBL5ZX0278	PACKED PEDESTAL ASSY		
		TBL5ZX03051	STAND_ACC_ASSY-L32E5		
		TBX5ZA00301	KEY_BUTTON		
		TKK5ZC50141	LED PANEL BRKT		
		TKK5ZC50201	LED PANEL		
		TKP5ZA13801	BOTTOM COVER		
		TKX5ZA02301	SPEAKER_BRACKET-L32X5		
		TKZ4GG5014	METAL BRACKET PCB A		
		TKZ5ZX5008	VESA METAL		
		TKZ5ZX5010	METAL BRACKET BOTTOM		
⚠		TSCKF0010004	LVDS CABLE		
	2	TXFKU1012SER	BACK COVER COMPLETE ASS'Y		
	3	TXFKY5Z0256	CABINET ASSY		
⚠	5	VVX32H125G00	LCD PANEL		
Electrical Replacement Part List					
⚠	RTL	TXN/A1RZUUS	A PRINT(FINISHED)		
⚠	RTL	TXN/P1RZUU	P PRINT		
⚠	RTL	TXN/K1RZUUS	K PRINT		