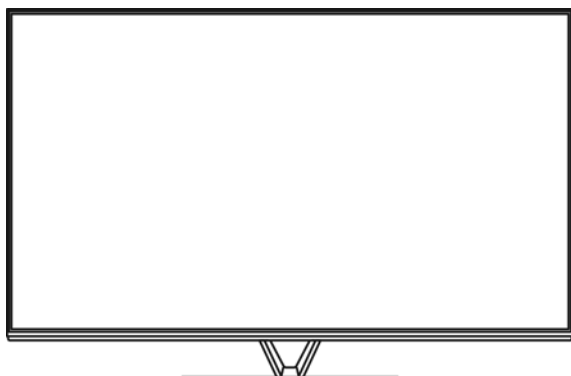


Service Manual

LED TV



Model No. TH-L50DT60S

Chassis: LA41

Destination: SINGAPORE

WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

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

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

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

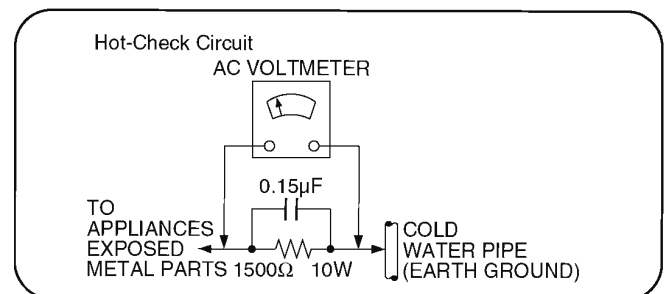


Figure 1

2 Warning

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

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

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

2.2. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

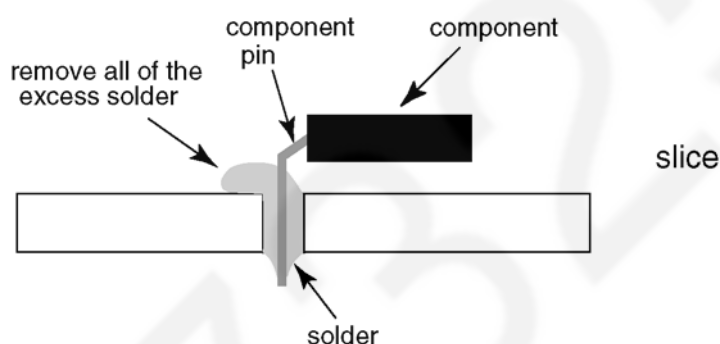
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

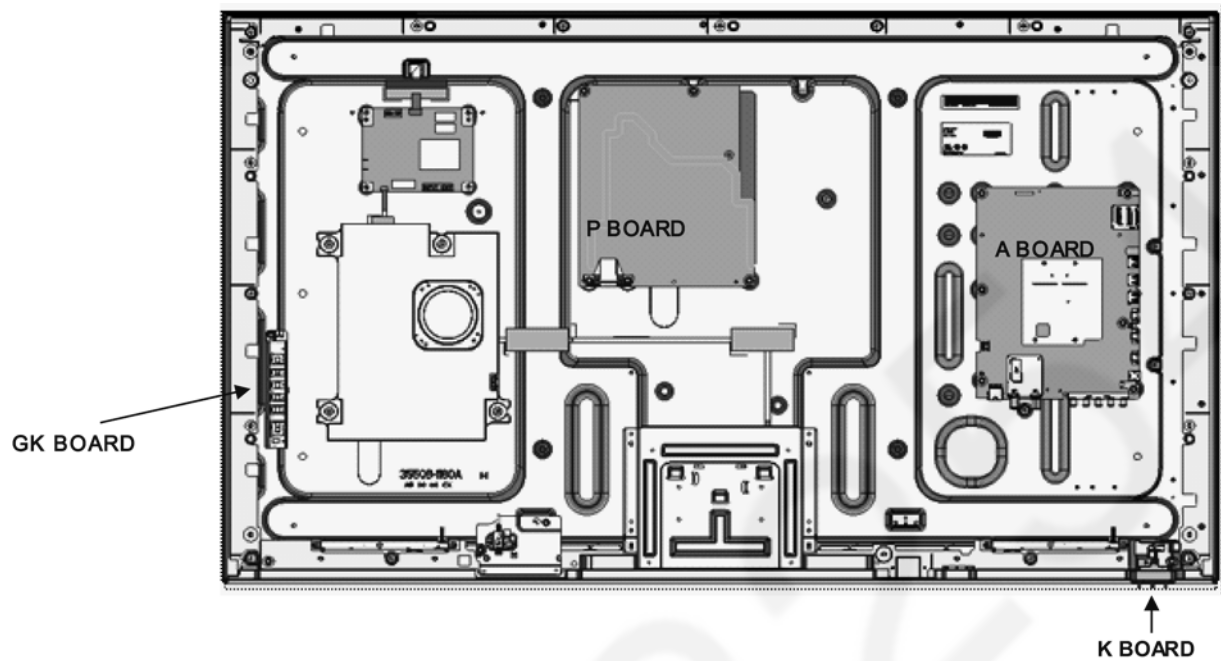
Caution

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



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, OFDM, ADV, LD4, STBY EEP	Repairable
P BOARD	Power Supply	Repairable
GK BOARD	Function SW for LGD panel	Repairable
K BOARD	LED/RM/CATS	Repairable

4 Specifications

Power

Rating 128 W

Standby power consumption 0.2 W

Visible screen size (diagonal) 126 cm

Dimensions (W × H × D) 1,123 mm × 745 mm × 261 mm (With Pedestal)
1,123 mm × 659 mm × 35 mm (TV only)

Mass 20.5 kg Net (With Pedestal)

16.0 kg Net (TV only)

Power source AC 110-240 V, 50 / 60 Hz

Display resolution 1,920 (W) × 1,080 (H)

Panel LED backlight Liquid Crystal Display

Connection Terminals

AV IN (COMPONENT / VIDEO) **VIDEO** RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
AUDIO L - R RCA PIN Type × 2 0.5 V [rms]
Y 1.0 V [p-p] (including synchronisation)
P_B/C_B, P_R/C_R ±0.35 V [p-p]

HDMI 1 / 2 / 3 input

TYPE A Connectors

HDMI 1 / 3: 3D, Content Type, Deep Colour

HDMI 2: 3D, Content Type, Audio Return Channel, Deep Colour

• This TV supports 'HDAVI Control 5' function.

Card slot SD Card slot × 1

ETHERNET 10BASE-T / 100BASE-TX

USB 1 / 2 / 3 USB 2.0 DC 5 V, Max. 500 mA

DIGITAL AUDIO OUT PCM / Dolby Digital / DTS, Fibre optic

Sound

Speaker 8 train speakers × 2, Woofer (ø 75 mm) × 1

Audio output 18 W (4 W + 4 W + 10 W)

Receiving Systems / Band name

	17 SYSTEMS	FUNCTION
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58 / 4.5 MHz)	
8	NTSC 4.43 / 5.5 MHz	Playback from Special VCR's or DVD
9	NTSC 4.43 / 6.0 MHz	
10	NTSC 4.43 / 6.5 MHz	
11	NTSC 3.58 / 5.5 MHz	
12	NTSC 3.58 / 6.0 MHz	
13	NTSC 3.58 / 6.5 MHz	
14	SECAM I	
15	PAL 60 Hz / 5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD
16	PAL 60 Hz / 6.0 MHz	
17	PAL 60 Hz / 6.5 MHz	

Digital TV: 7 MHz VHF / 8 MHz UHF free-to-air TV broadcast reception

Receiving Channels (Analogue 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 USA)

UHF BAND

21 - 69 (PAL G, H, I / SECAM G, K, K1)

28 - 69 (PAL B AUST.)

13 - 57 (PAL D, K)

13 - 62 (NTSC M Japan)

14 - 69 (NTSC M USA)

CATV

S1 - S20 (OSCAR)

1 - 125 (USA CATV)

C13 - C49 (JAPAN)

S21 - S41 (HYPER)

Z1 - Z37 (CHINA)

5A, 9A (AUST.)

Aerial input	VHF / UHF
Operating Conditions	Temperature : 0°C - 40°C Humidity : 20 % - 80 % RH (non-condensing)
Built-in wireless LAN	Standard compliance and Frequency range*2: IEEE802.11a/n 5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz IEEE802.11b/g/n 2.40 GHz - 2.4835 GHz Security: WPA2-PSK (TKIP/AES) WPA-PSK (TKIP/AES) WEP (64 bit/128 bit) Standard Compliance: Bluetooth 3.0 Frequency Range: 2.402 GHz - 2.480 GHz
Bluetooth wireless technology*3	

*1: With Camera pop-up: +20 mm height

*2: The frequency and channel differ depending on the country.

*3: Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously (except the VIERA Touch Pad Controller).

3D Eyewear

Dimensions (W × H × D)	165 mm × 38 mm × 166 mm
Mass	Approx. 18 g
Usage temperature range	0°C - 40°C
Materials	Main body / Lens section: Resin

- Use Panasonic 3D Eyewear supporting passive 3D system technology.

Note

- VIERA Touch Pad Controller uses Bluetooth wireless technology.
- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- For the information of the open source software, refer to [eHELP] (Support > Licence).

5 Service Mode

5.1. How to enter into Service Mode

5.1.1. Purpose

After exchange parts, check and adjust the contents of adjustment mode.

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

Software version					
Picture adjustment	SERVICE	Peaks SOFT	4.824	OPTION 1	30
White balance adjustment	ADJUST	Peaks EEP	01.07.0017	OPTION 2	22
Option setting	WB-ADJ	LSI PACKAGE	0.01d	OPTION 3	01
Service tool	OPTION	LSI DATA	1.00.03	OPTION 4	12
	SRV-TOOL	STBY SOFT	1.01.03	Model ID	0a
	DRV CHECK	STBY EEP	1.01.415d		03000321
		STBY ROMCOR	0.00.00		00000800
		Ajax_CE	0.58.27	R/E Cnt	000/000/000
		GCX DATA	d1010016	INV Cnt	0000
				AVSW	-

5.1.2. Key command

[1] button...Main items Selection in forward direction

[2] button...Main items Selection in reverse direction

[3] button...Sub items Selection in forward direction

[4] button...Sub items Selection in reverse direction

[VOL.] button...Value of sub items change in forward direction (+), in reverse direction (-)

5.1.3. How to exit

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

5.1.4. 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	
	COLOUR	
	TINT	
	SUB-BRT	
	BACKLGT	
	H POS	
	H AMP	
	V POS	
	V AMP	
	A COM	
WB-ADJ	R-GAIN	8D
	G-GAIN	AE
	B-GAIN	FF
	R-CENT	6C
	G-RENT	80
	B-CENT	A0
OPTION	Boot	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	FC7
	Y/C DELAY	DYNAMIC
	OPT 1	00000000
	OPT 2	11100110
	OPT 3	00001001
	OPT 4	00000000
	EDID-CLK	HIGH
SRV-TOOL		00
DRV CHECK		DYNAMIC

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.

Display of Flash ROM maker code →

SRV-TOOL	
Flash ROM : AD-DC	

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

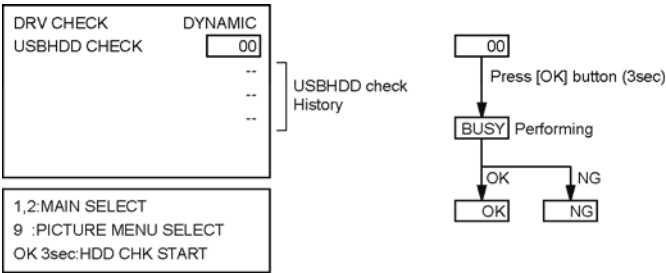
Note : This indication will not be cleared by either of the self-checks or any other command.

5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.2.5. DRV Check - USBHDD Check

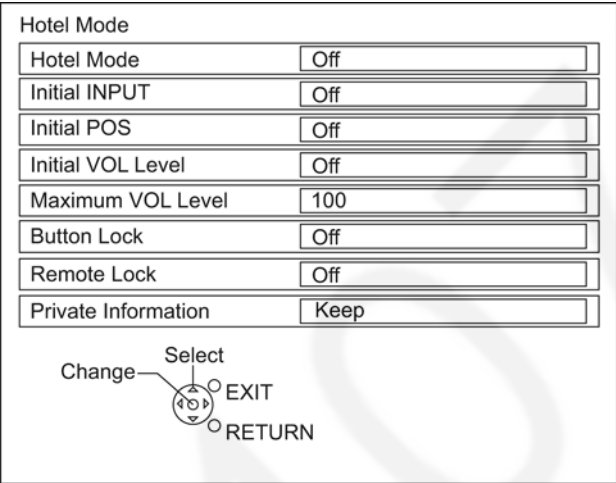
- 1. Select [DRV Check - USBHDD Check] in Service Mode.
- 2. Press [OK] button on the remote control for more than 3 seconds.



5.2.6. 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:
While pressing [VOLUME (-)] button of the main unit,
press [AV] button of the remote control three times within
2 seconds.

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
Hotel Mode	Select hotel mode On/Off
Initial INPUT	Select input signal modes. Set the input, when each time power is switched on. Selection : Off,Analogue,DVB-C,DVB-T,AV1,AV2,HDMI1, HDMI2 • Off: give priority to a last memory. However, Euro model is compulsorily set to TV.
Initial POS	Select programme number. Selection : Off/0 to 99 • Off: give priority to a last memory.
Initial VOL LEVEL	Adjust the volume when each time power is switched on. Selection Range : Off/0 to 100 • Off: give priority to a last memory.
Maximum Vol Level	Adjust maximum volume. Range : 0 to 100
Button Lock	Select local key conditions. Selection : Off/SETUP/MENU/ALL • OFF: altogether valid • SETUP: only F-key is invalid (Tuning guide (menu) can not be selected.) • MENU: only F-key is invalid (only Volume/Mute can be selected.) • ALL: altogether invalid.
Remote Lock	Select remote control key conditions. Selection : Off/SETUP/MENU • OFF: altogether valid. • SETUP: only Setup menu is invalid. • MENU: Picture/Sound/Setup menu are invalid.
Private Information	Select private information for VIERA Cast is Keep or Reset if Hotel mode is set to [On] when TV power on. Selection : Keep/Reset • Keep: private information for VIERA Cast is keep • Reset: private information for VIERA Cast is reset

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

6.1.2. 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.

6.1.3. 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.

6.1.4. Exit

Disconnect the AC cord from wall outlet.

6.1.5. Screen display

50FHD			
SELF CHECK COMPLETE			
H14TUN	OK	PEAKS-SOFT	4.824
H90STBY	OK	PEAKS-EEP	01.07.0017
H91MEM2	OK	LSI-PACKAGE	0.01d
H17LAN	OK	LSI-RELEASE	1.03
H96ID	OK	STBY-SOFT	1.01.03
H97ID2	OK	STBY-EEP	1.01.415d
H45BT	OK	GCX DATA	d1010016
H45WiFi	OK		
H21DSP	OK		
		MODEL ID	0a
			03000321
			00000800

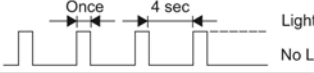
6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by 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.

Blinking times	Blinking timing	Contents	Check point
1	 Light No Light	BL_SOS	A BOARD PANEL
3		IROM SOS	A BOARD
7		SUB3.3V/1.2V	A BOARD
8		SOS	A BOARD PANEL
9		SOUND_SOS	A BOARD
10		FRC_SOS	FR BOARD
12		BE_SOS	A BOARD
13		EMERGENCY	A BOARD

6.3. LCD Panel test mode

Purpose:

To find the possible failure point where in LCD Panel or Printed Circuit Board when the abnormal picture is displayed.

How to Enter:

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

How to Exit:

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

How to confirm:

If the abnormal picture is displayed, go into LCD Panel test mode to display the several test patterns.

And then, judge by the following method.

Still abnormal picture is displayed: The cause must be in LCD Panel.

Normal picture is displayed: The cause must be in A board.

Remarks:

The test pattern is created by the circuit in LCD Panel.

In LCD Panel test mode, this test pattern is displayed unaffected by signal processing for RF or input signal.

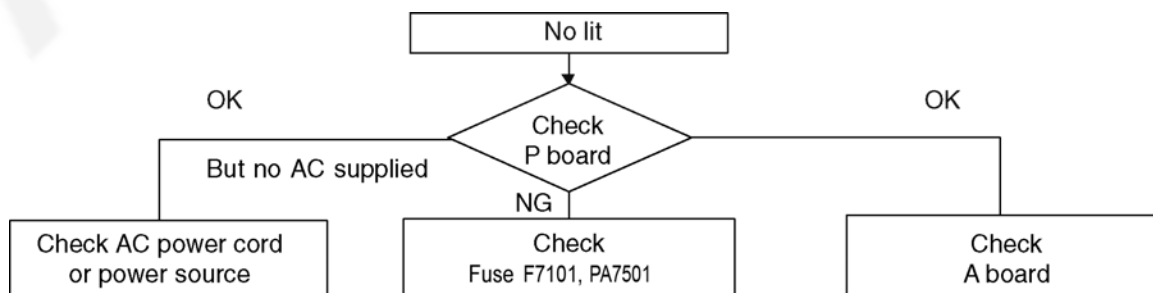
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.4. No Power

First check point

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

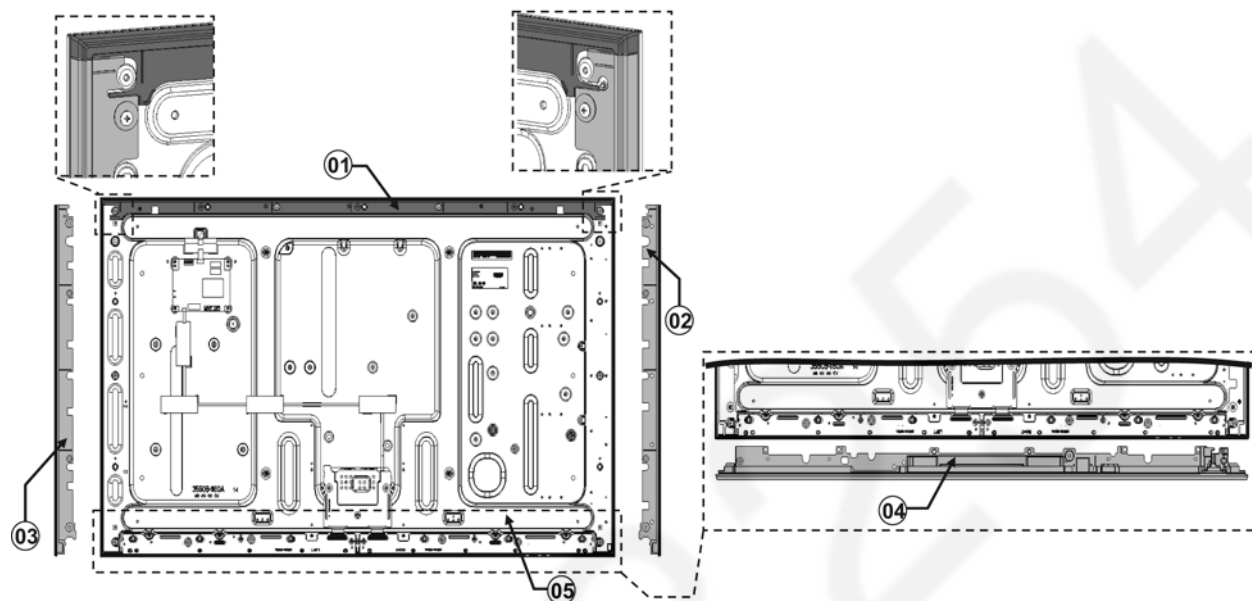
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Rear Panel Installation 1

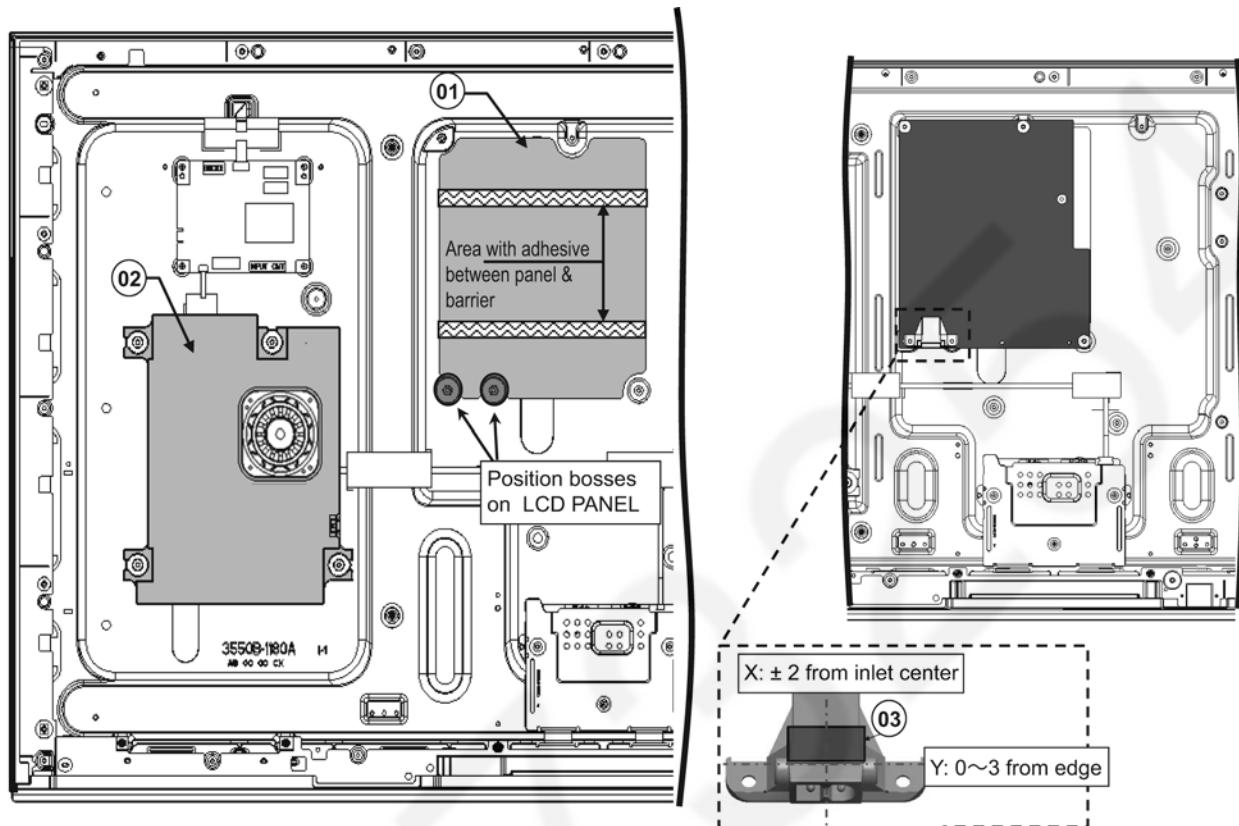
1. Install REAR PANEL assy to each side of panel.
2. Follow the sequence TOP - LEFT - RIGHT - BOTTOM.



No	Description	Qty
01	REAR PANEL T ASSY	1
02	REAR PANEL L ASSY	1
03	REAR PANEL R ASSY	1
04	REAR PANEL B ASSY	1
05	LCD PANEL	1

7.2. Rear Panel Installation 2

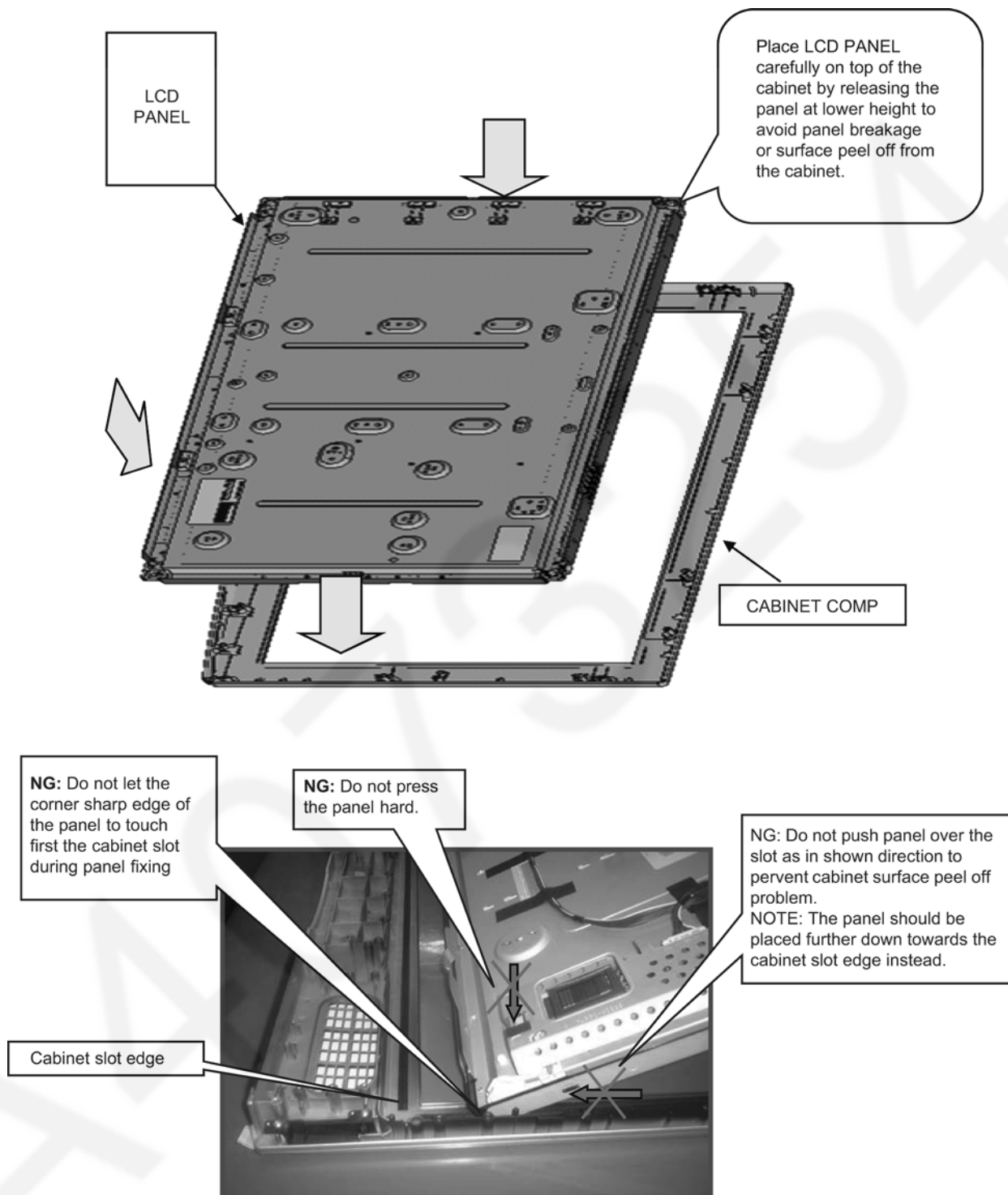
1. Stick PCB BARRIER to panel.
2. Fix WOOFER to panel as below.
3. Stick FELT at ac inlet.



No	Description	Qty	UOM
01	P-PCB_BARRIER	1	PC
02	WOOFER THIN BOX FE	1	PC
03	FELT (10*14*T0.35)	1	PC

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.

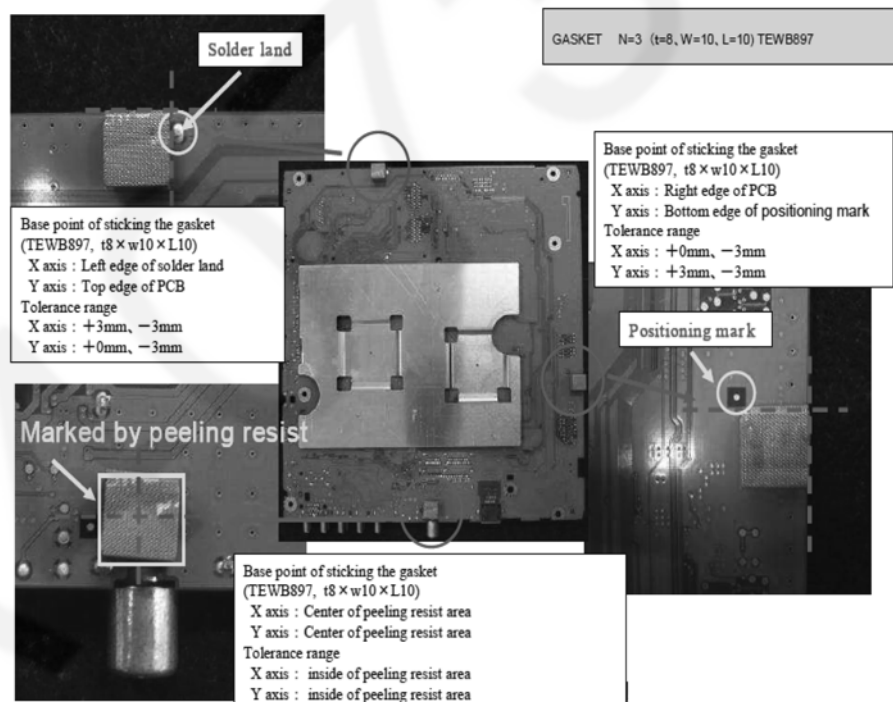
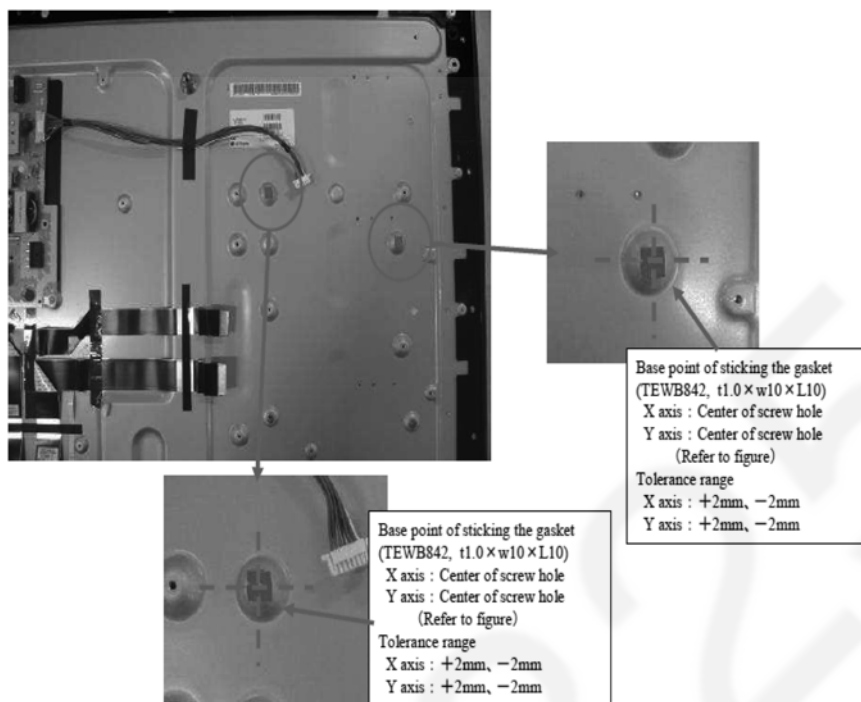


Other general precautions

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, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
5. The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch with your fingernail or other hard objects.

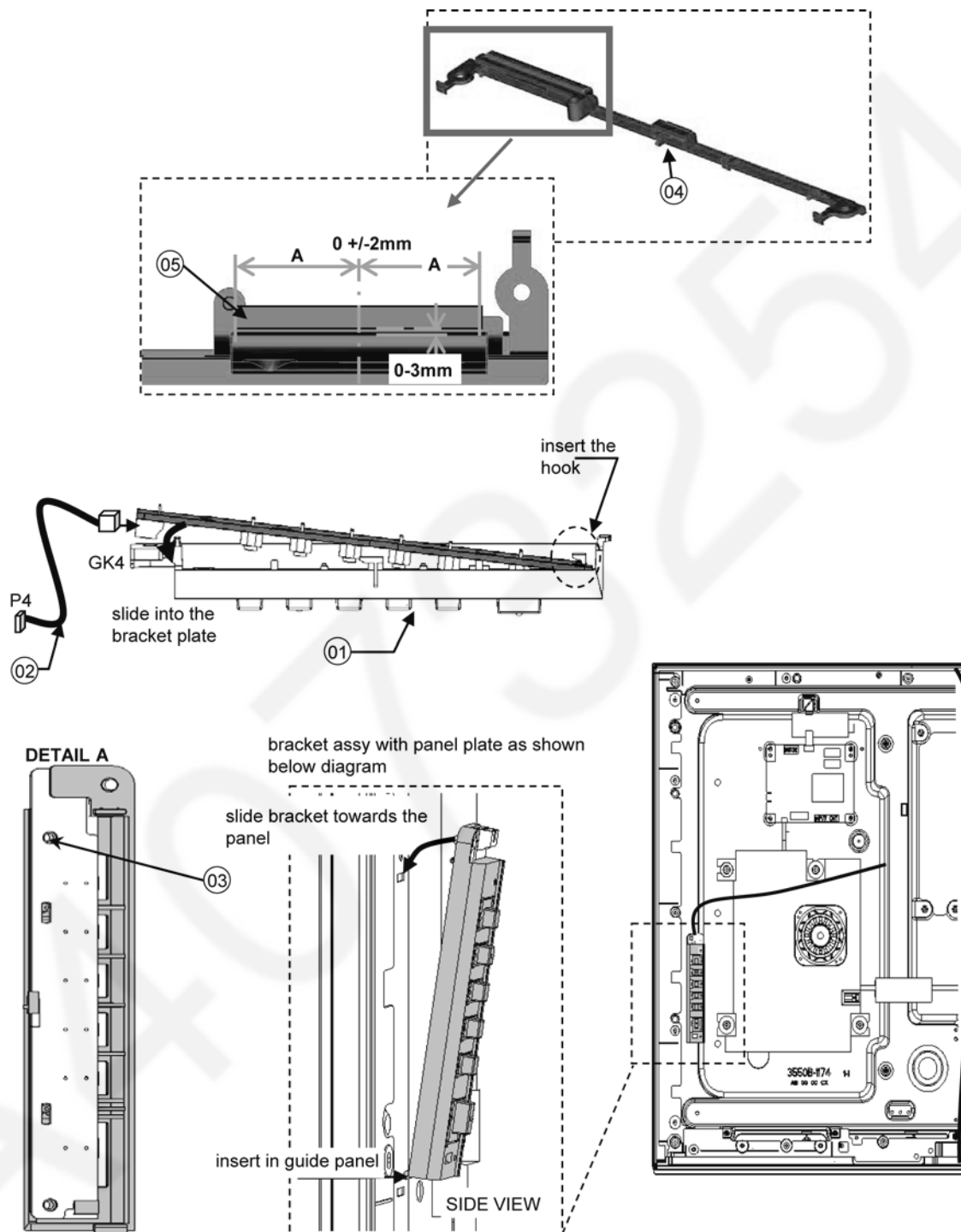
7.4. Sticking Gasket at Panel

Stick GASKET to LCD panel & P-board as below.



7.5. Fix Key Button & LED Panel

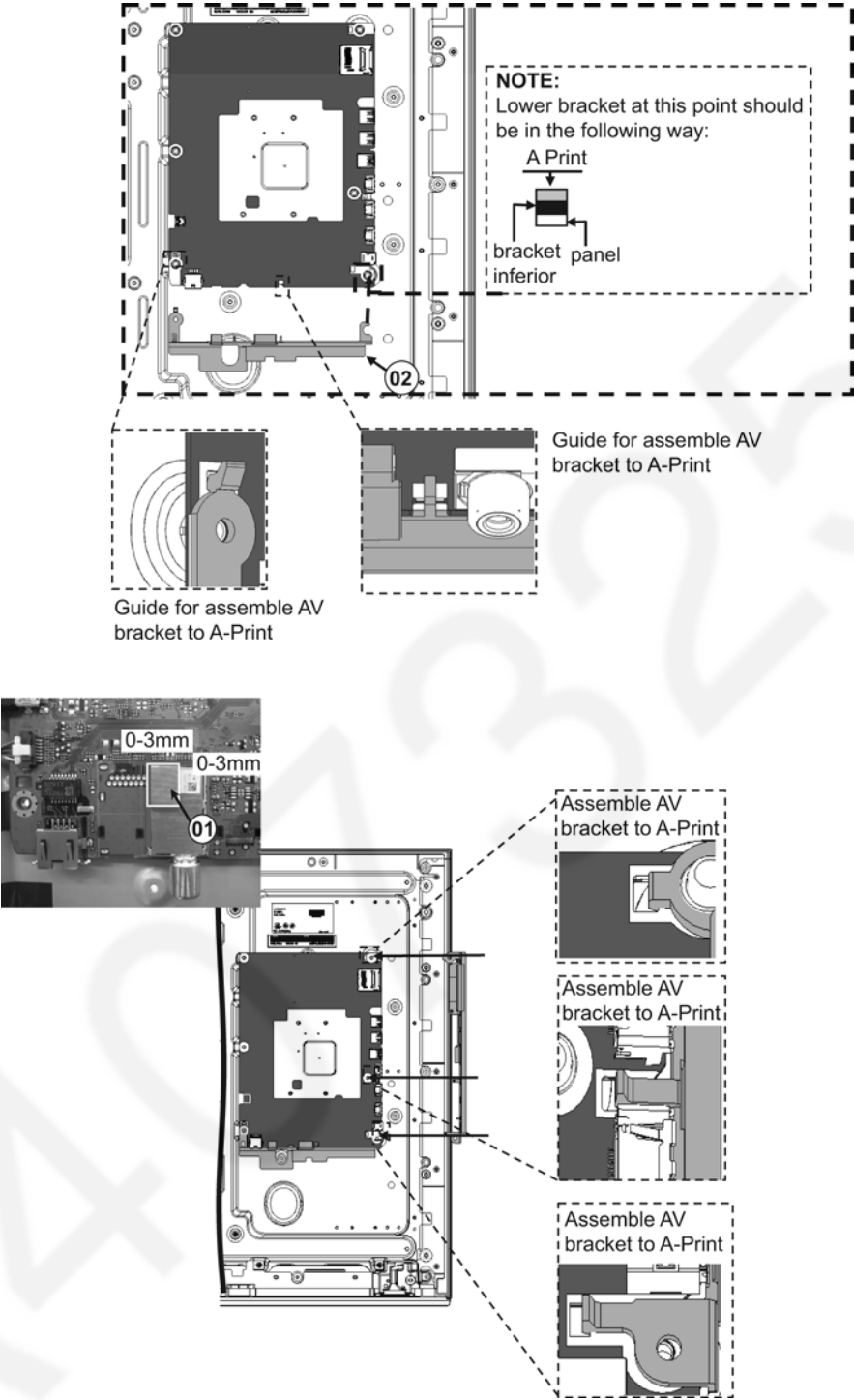
1. Insert the bracket as shown.
2. Connect cable P4-LD/GK4.
3. Screw GK plate bracket in the position as Detail A.



No	Description	Qty	Remarks
01	KEY BUTTON BRACKET	1	
02	P4-LD/GK4	1	
03	SCREW (KEY)	1	6 ±1 Kgfcmm
04	SIDE AV BRACKET	1	
05	FELT (6*50*T0.55)	1	

7.6. Install AV Bracket

Fix Side & Bottom AV Bracket to A-Print.

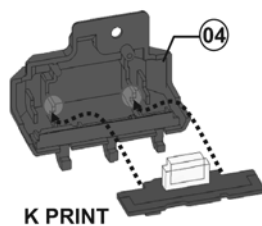


No	Description	Qty	UOM
01	GASKET	1	PC
02	BOTTOM AV BRACKET	1	PC

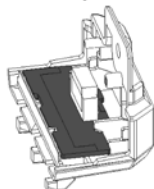
7.7. Installing P-Print & Screw

1. Place P-Print in the position shown in the panel.
2. Tighten screw using specified torque.

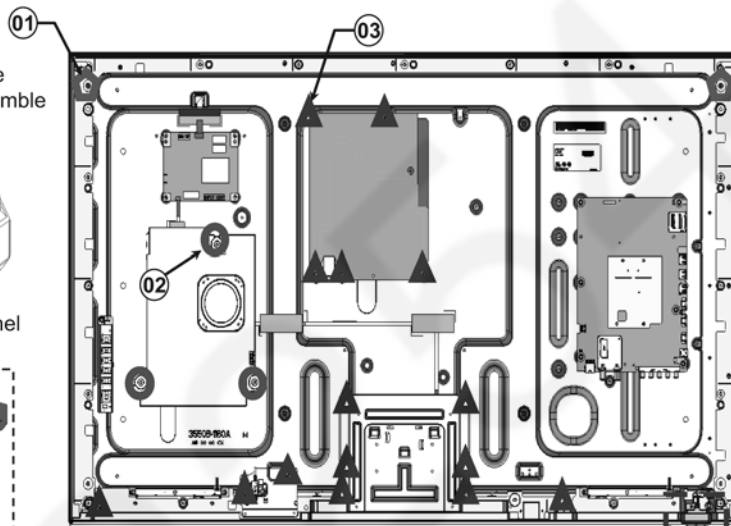
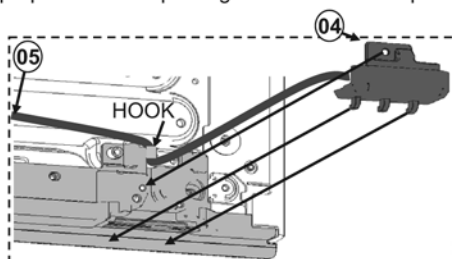
- 1 Assemble K plate in preparation guides led panel and slide



- 2 Make sure the plate has been fully assemble



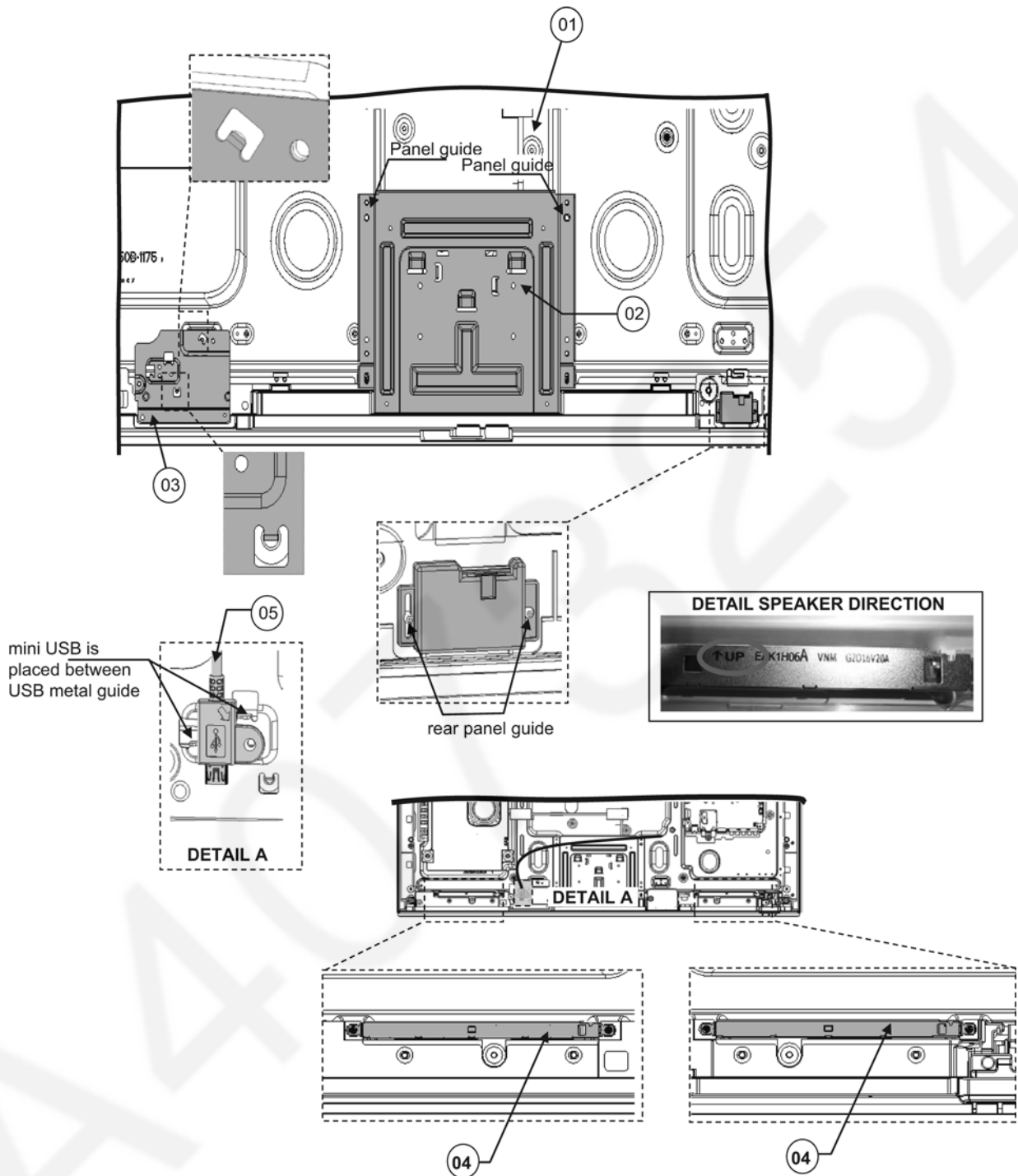
- 3 Joint preparation LED panel guides REAR lower panel



No	Description	Qty	UOM	Remarks
01	SCREW (RP)	2	PC	6 ±1 Kgfcmm
02	SCREW (WOOFER)	3	PC	6 ±1 Kgfcmm
03	SCREW	15	PC	6 ±1 Kgfcmm
04	LED PANEL ASSY	1	PC	
05	A10 - K10	1	PC	

7.8. Fix Metal Bracket Bottom

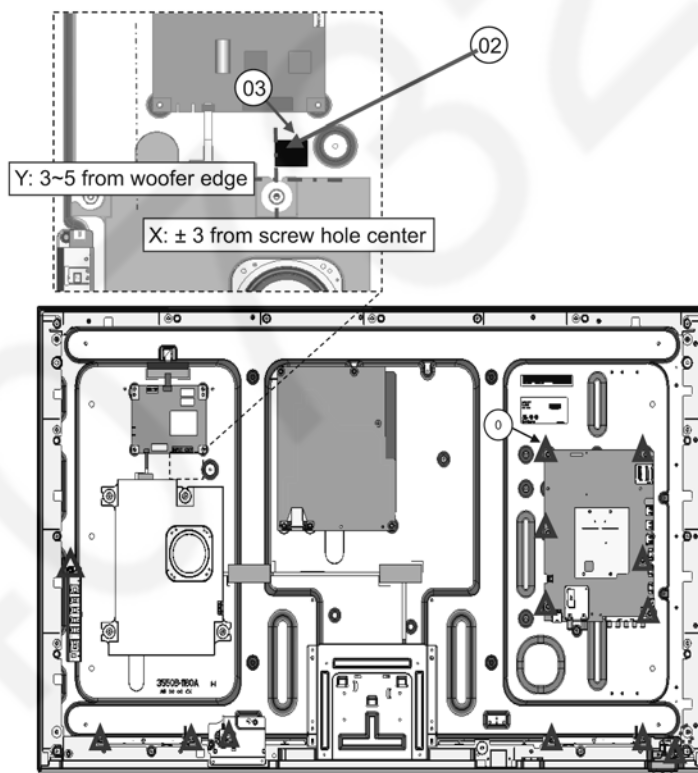
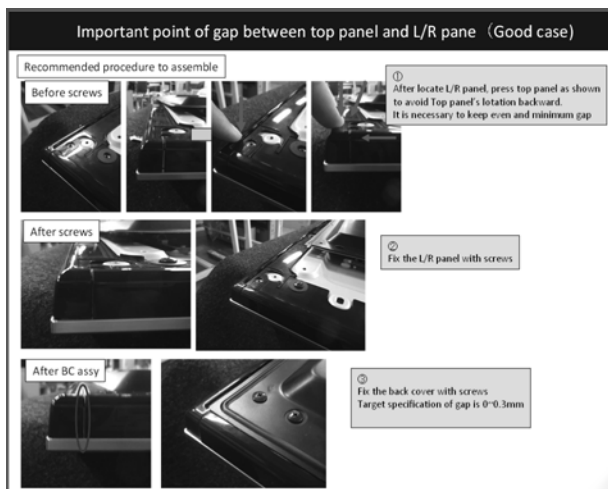
1. Fix METAL BRACKET BTM to panel.
2. Install SP left & right.
3. Fix WIFI METAL to panel.



No	Description	Qty	UOM
01	CLAMPER	1	PC
02	METAL_BRACKET_BOTTOM	1	PC
03	WIFI_METAL	1	PC
04	SPEAKER SQ	2	PC
05	WIFI CABLE	1	PC
06	BT DONGLE	1	PC

7.9. Fix Speaker & Spacer

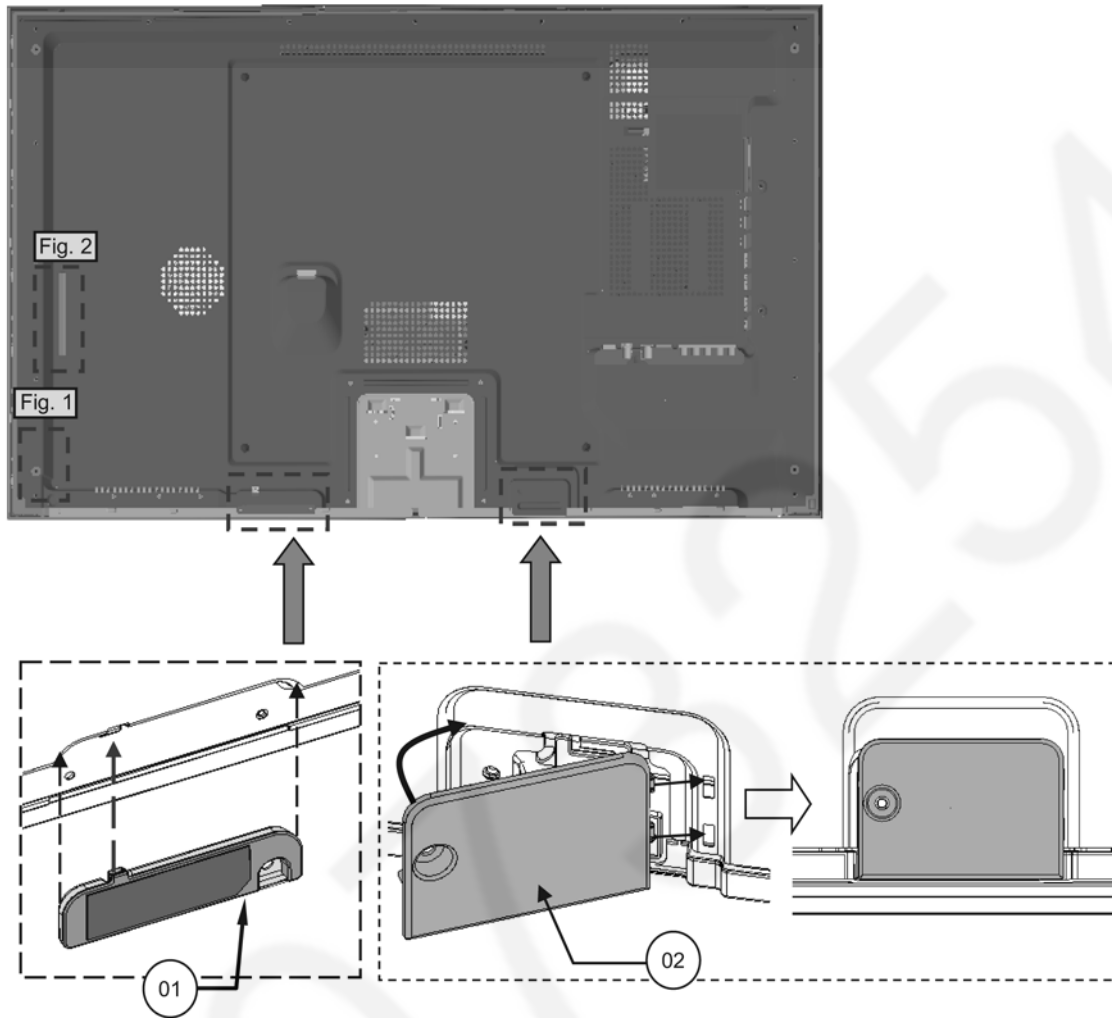
1. Assemble wire dressing according to diagram below.
2. Refer next page for detail assemble.



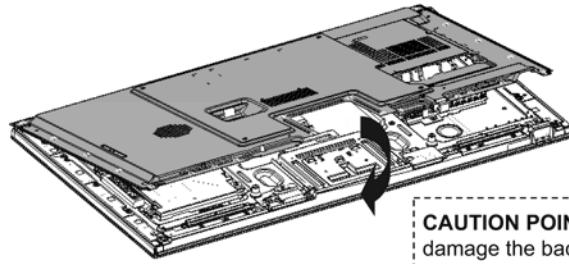
No	Description	Qty	UOM	Remarks
01	SCREW	13	PC	6 $\pm$ 1 Kgfc/cm
03	SPONGE (15*20*T20)	1	PC	

7.10. Install WIFI Dongle

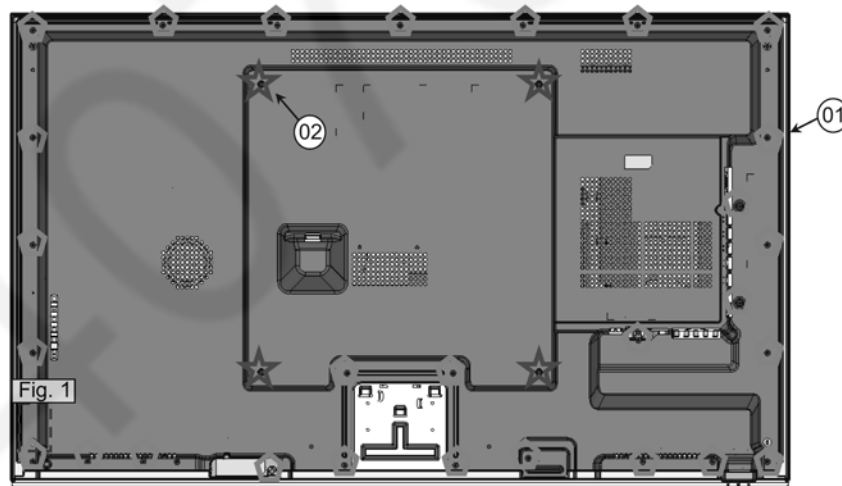
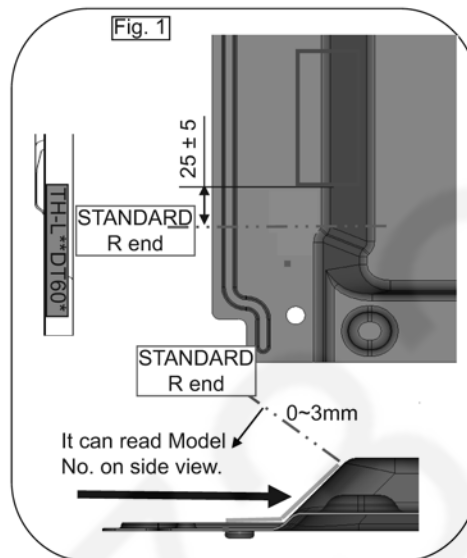
Install WIFI Dongle to B/COVER.



7.11. Tightening Screw



CAUTION POINT: Handling with care & not damage the backcover during assembly.



No	Description	Qty	UOM	Remarks
01	SCREW	28	PC	6 ± 1 Kgfc/cm
02	M6 CAP	4	PC	

7.12. Handling SPEC

■ Moving the LCD module

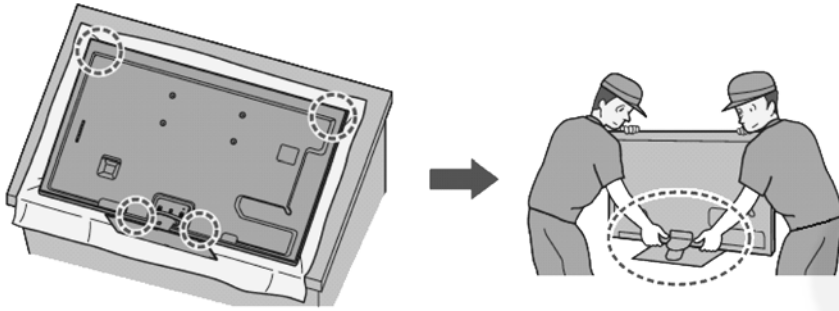
The module should be handle by two people and hold on that top and bottom long side by both hands without module warping. Never handle the module with keeping horizontal position when moving the module in order to avoid internal damage and deformation. Never drop or hit the module.

■ About the work table

When tightening a screw, retention structures are required not to deform the LCD module.

■ Moving the TV (Case with a stand)

Hold the specified parts as shown to stand the TV up and move it with two people.



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
SUB5V	TP5420	4.92V - 5.25V
USB5V	TP5440	5.00V - 5.40V
SUB3.3V	TP5400	3.17V - 3.45V
SUB1.8V	TP8714	1.70V - 1.90V
PRO4_SUB1.5V	TP8101	1.38V - 1.54V
PRO4_SUB1.1V	TP8100	1.00V - 1.24V
GCX_SUB1.5V	TP9501	1.38V - 1.54V
GCX_SUB1.1V	TP9500	1.10V - 1.24V

8.2. Voltage chart of P-board

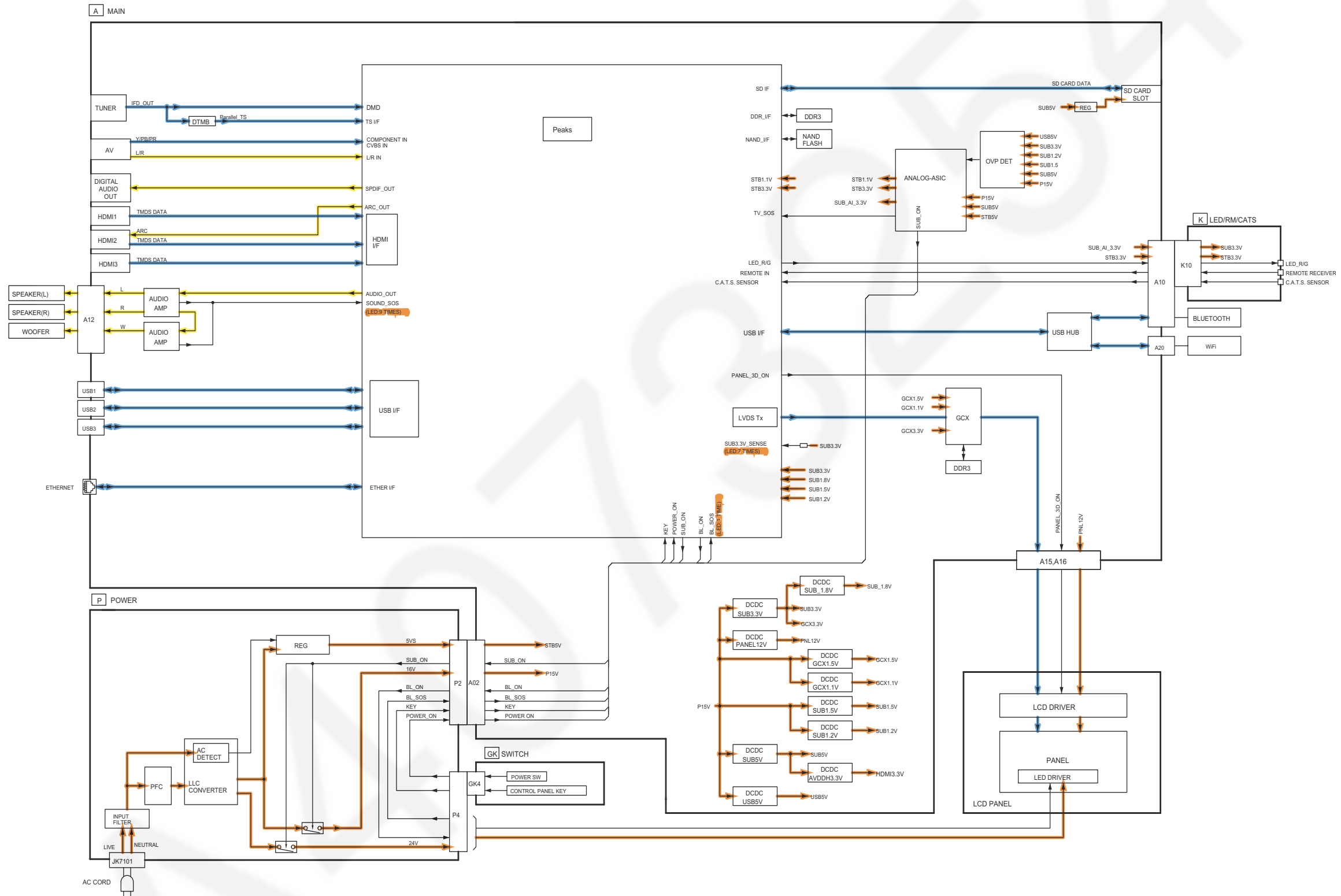
Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification	
		STBY	Operate
24V	TP7407	<1V	24 ± 1.2V
16V	TP7410	<1V	15.7 ± 0.6V
5VS	TP7501	5.3 ± 0.2 V	5.3 ± 0.2V
PFC	TP7201 or TP7202	<340V	390 ± 15V

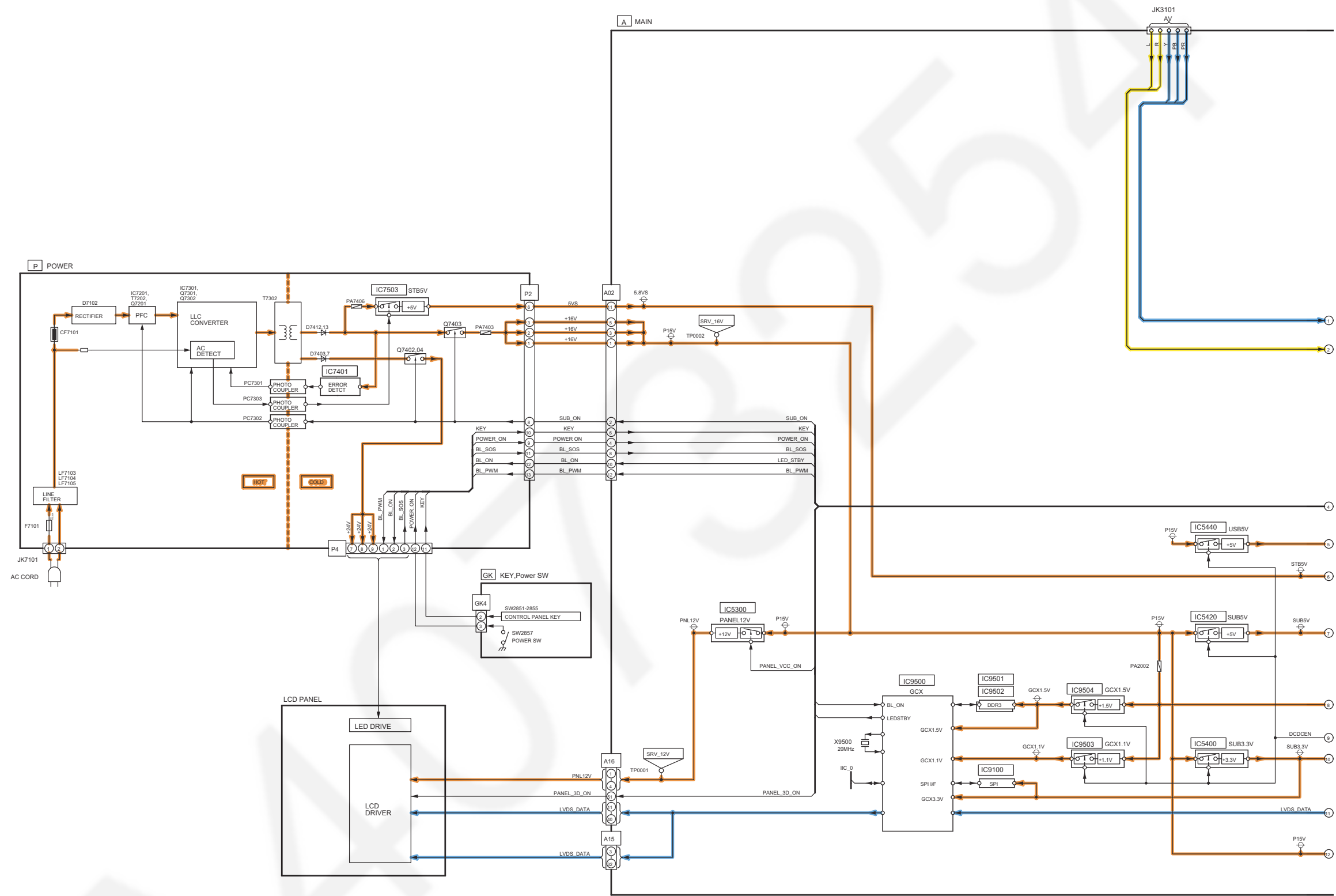
*HOT

9 Block Diagram

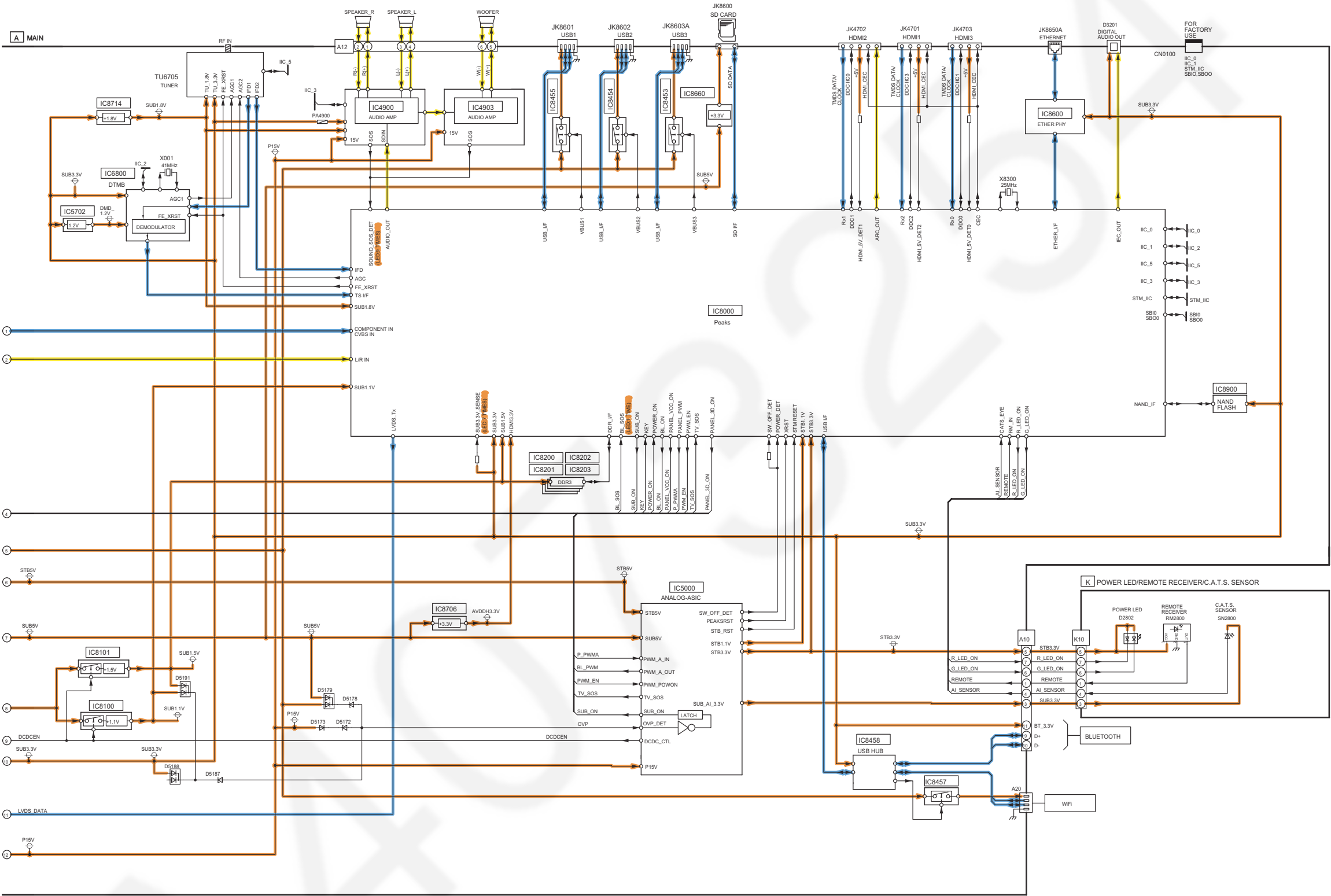
9.1. Main Block Diagram



9.2. Detailed Block Diagram (1/2)

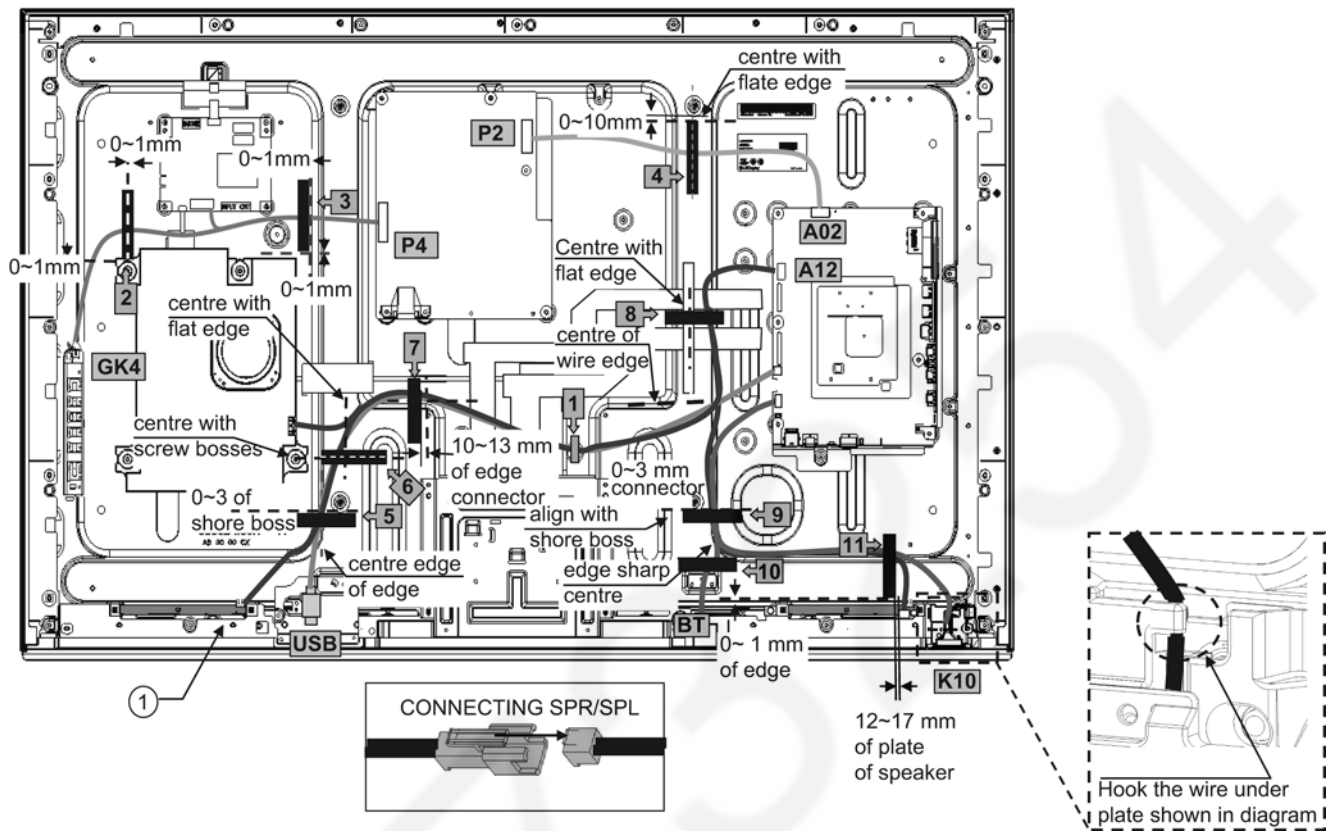


9.3. Detailed Block Diagram (2/2)



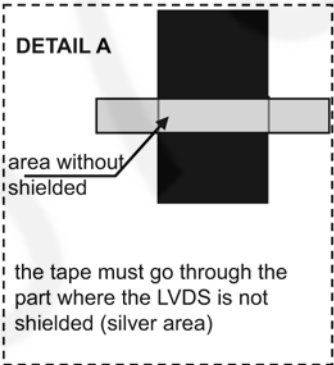
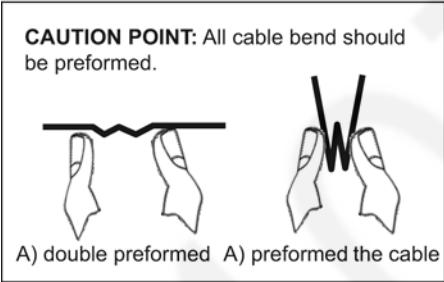
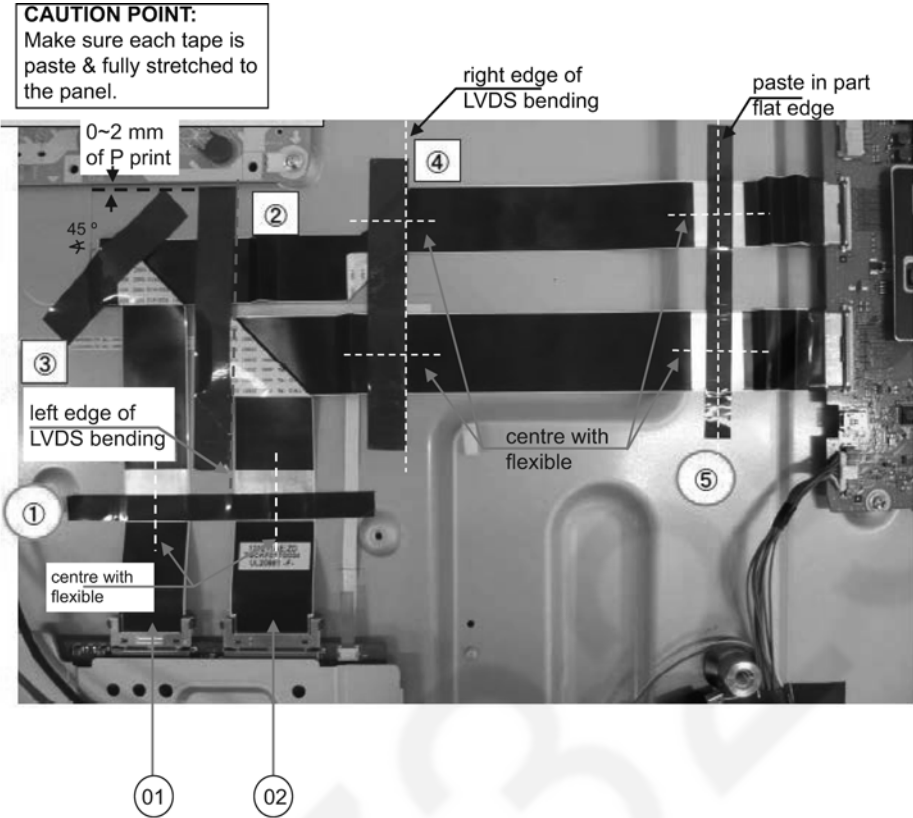
10 Wiring Connection Diagram

10.1. LVDS Fixing Wire



	Clampers	Tape									
Cables	1	2	3	4	5	6	7	8	9	10	11
A02 - P2				●							
A10 - K10									●		●
WiFi	●				●	●	●				
SPR - A12	●				●	●	●	●			
SPL - A12								●	●		●
Woofer - A12	●						●	●			
A10~ BT									●	●	
P4 - GK4		●	●								

10.2. Wire Dressing

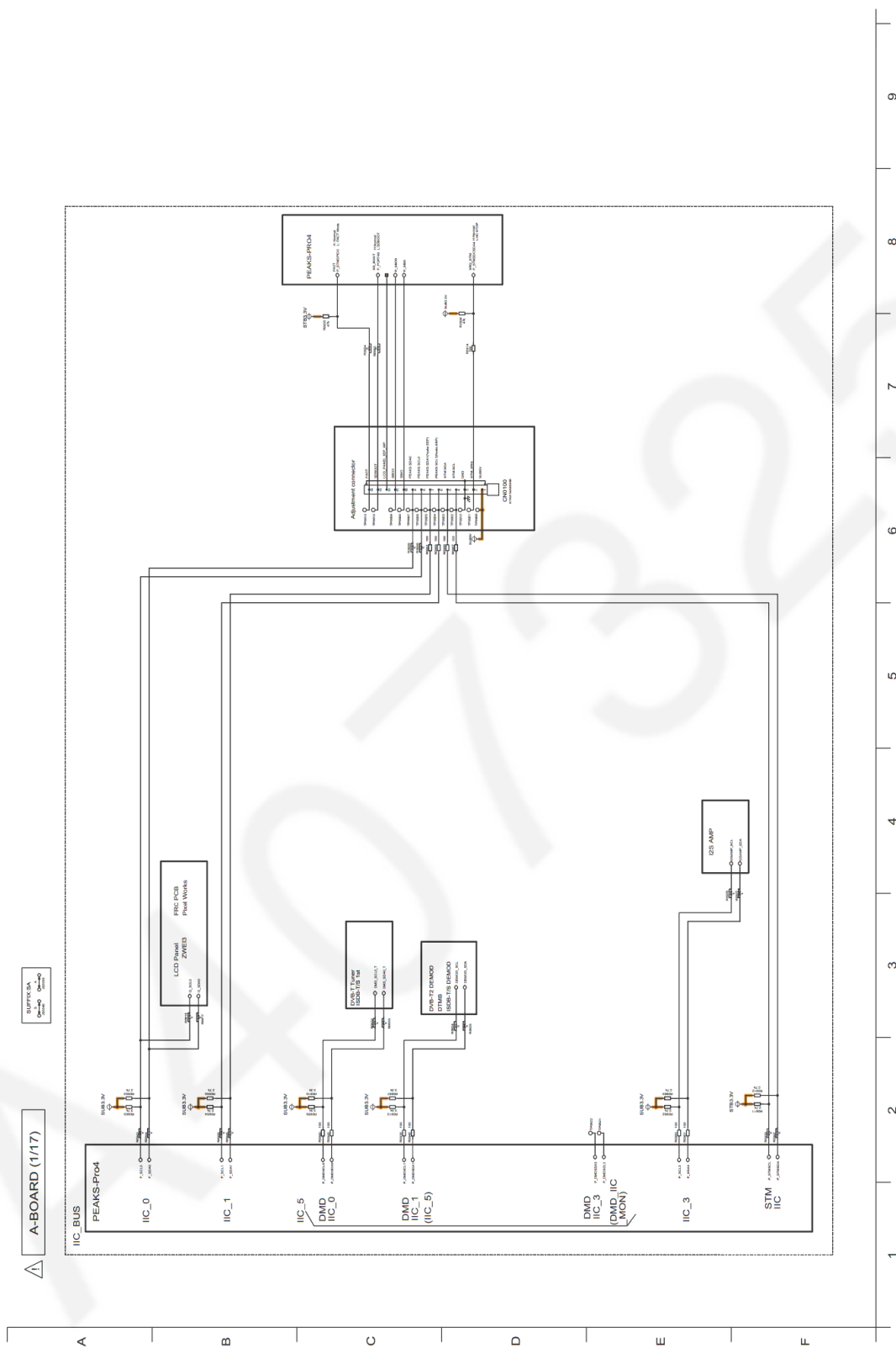


03	PET-Tape T4FP1505J 15 x 110 N=2
04	PET-Tape T4FP1505J 15 x 70 N=1
	PET+AL-Tape TEWF411 10 x 120 N=2

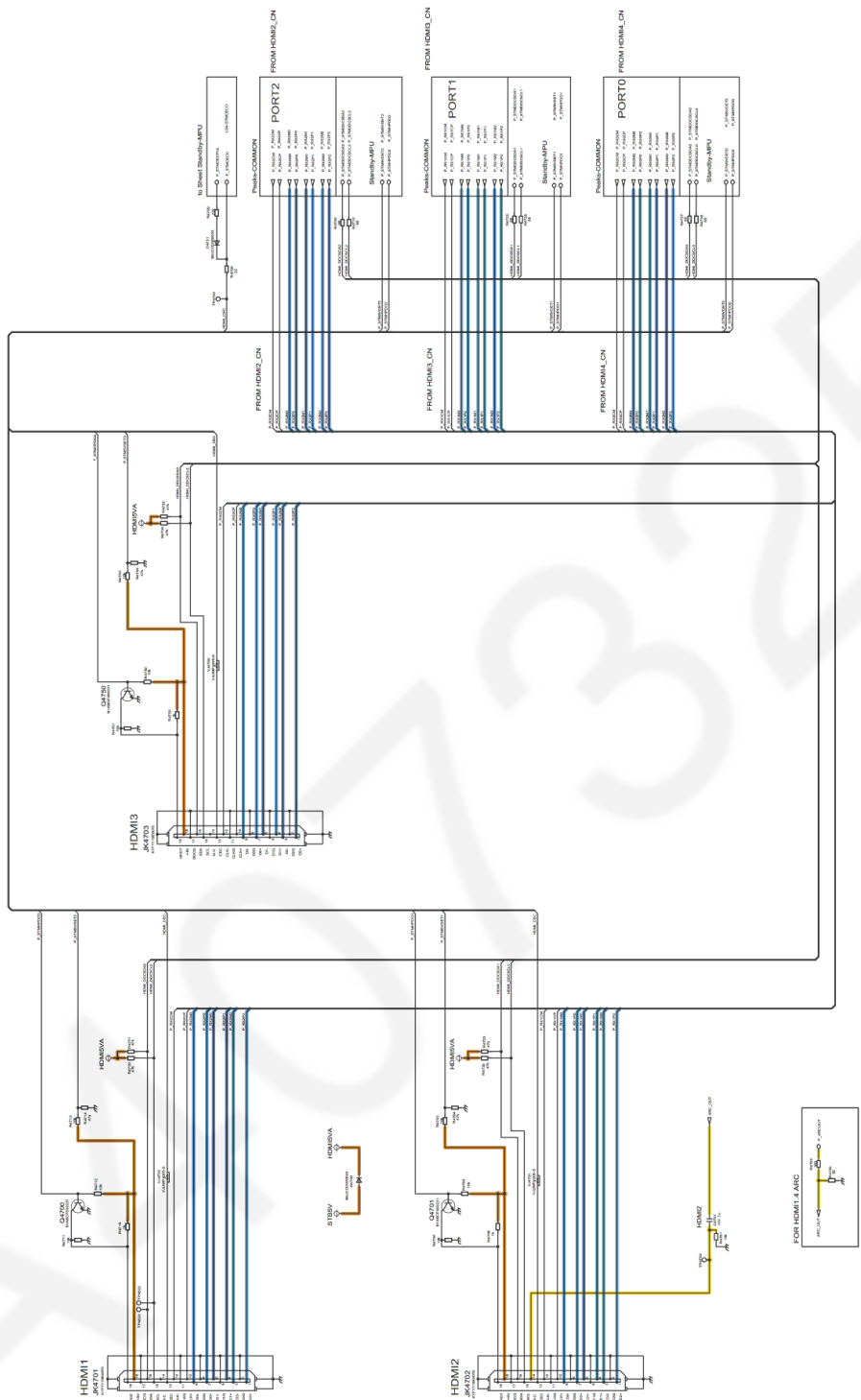
No	Description	Qty	UOM
01	LVDS FFC (41PIN)	1	PC
02	LVDS FFC (51PIN)	1	PC
03	PET TAPE	0.29m	PC
04	PET/AL	2	PC

11 Schematic Diagram

Model No. : TH-L50DT60S A-Board (1/17)

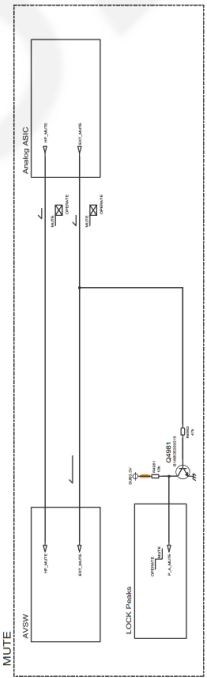
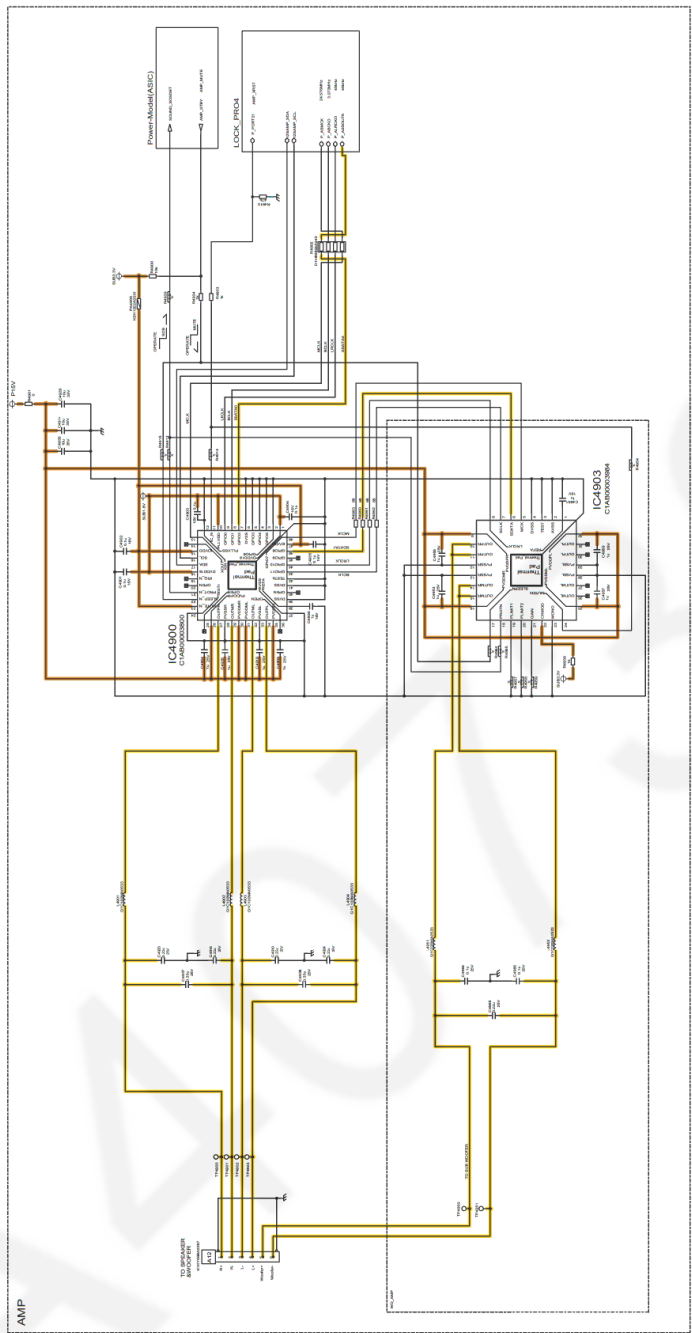


A-BOARD (2/17)



10 11 12 13 14 15 16 17 18

A-BOARD (3/17)



27

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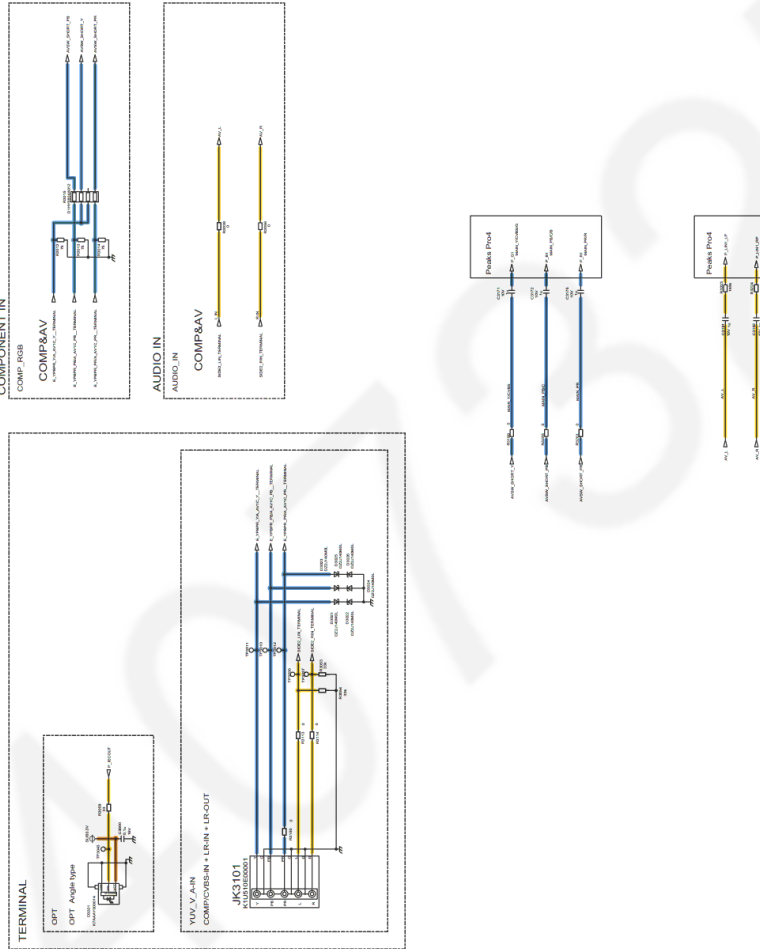
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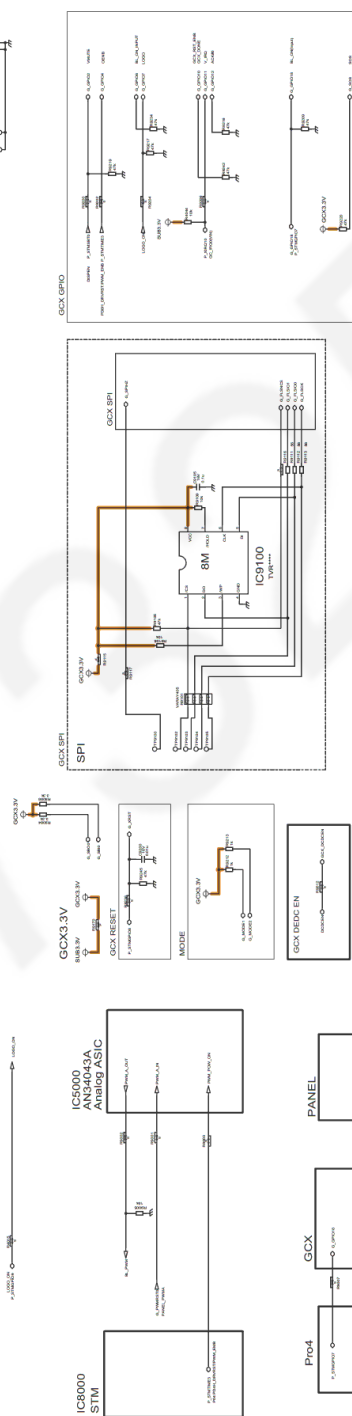
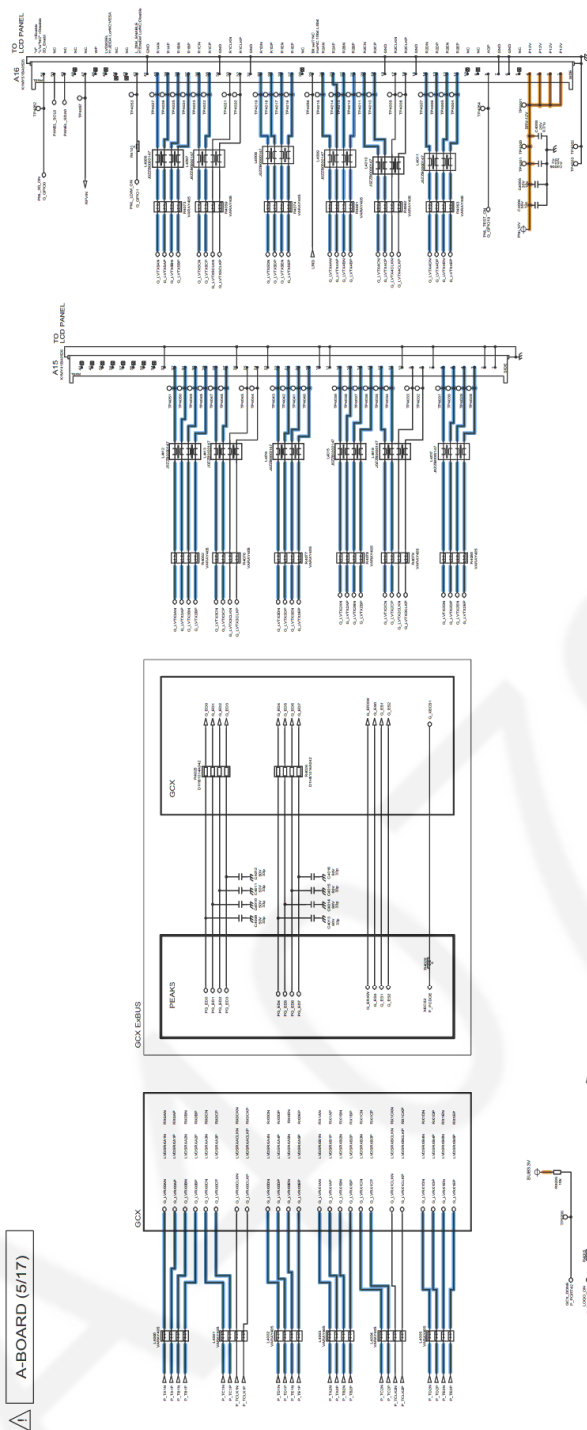
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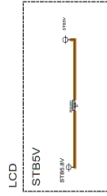
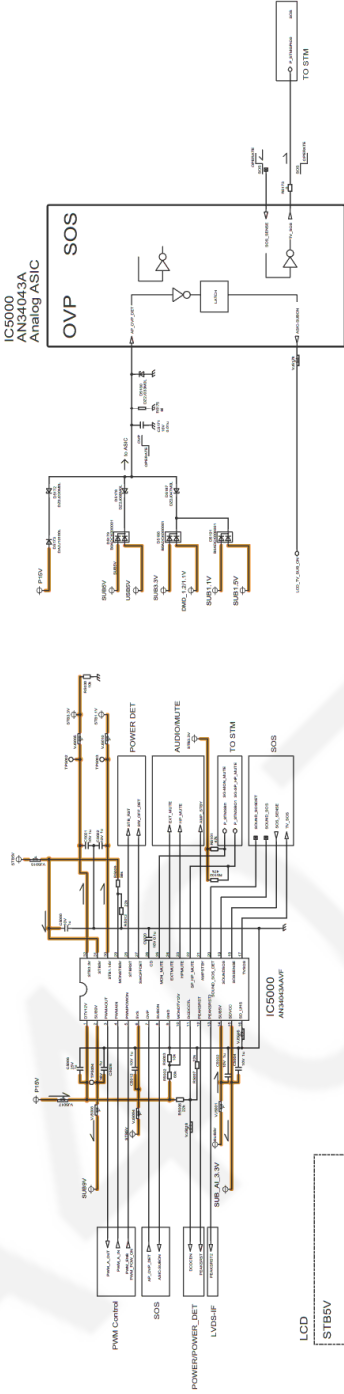
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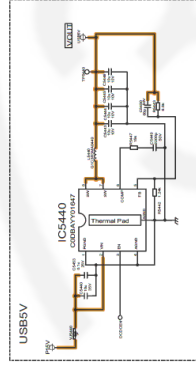
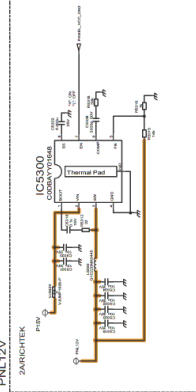
28 29 30 31 32 33 34 35 36



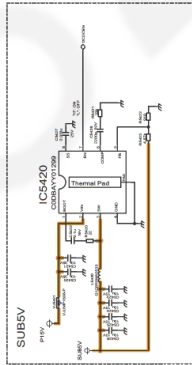
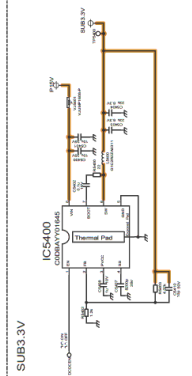
A-BOARD (6/17)



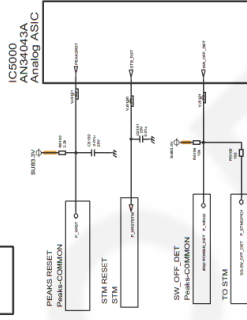
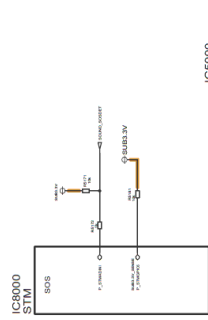
PNL12V



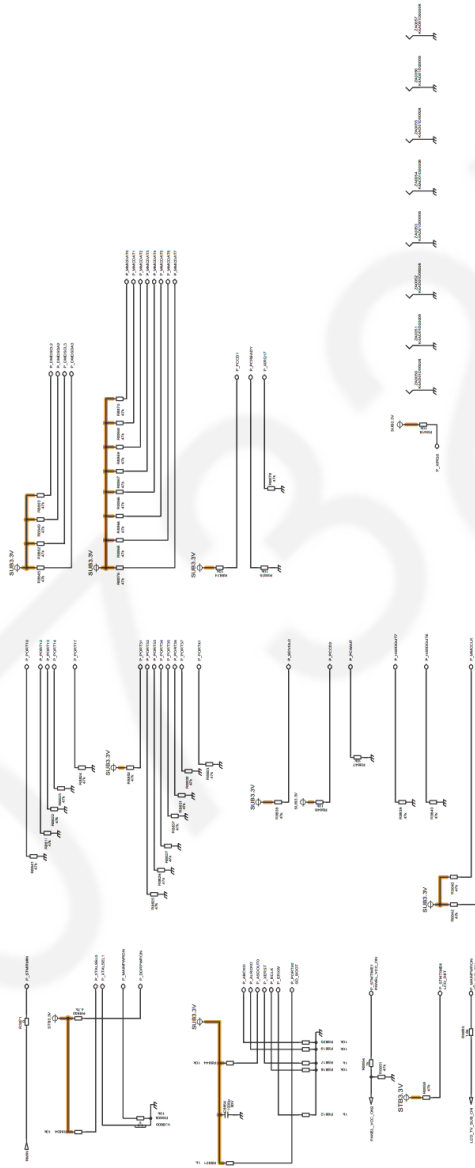
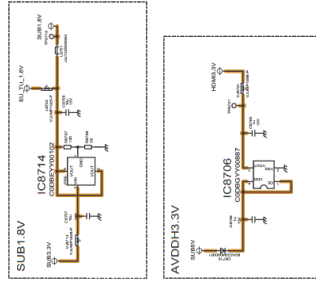
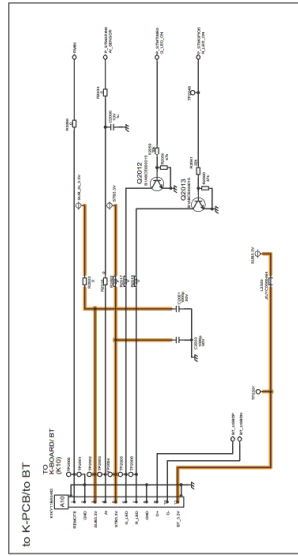
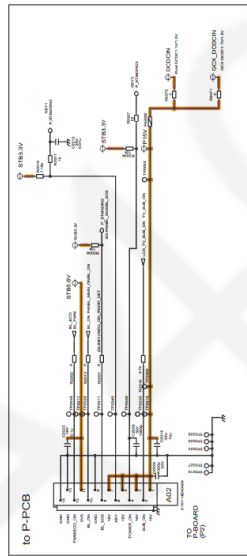
SUB3.3V



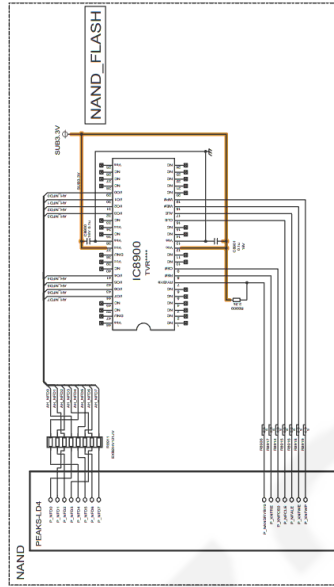
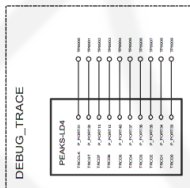
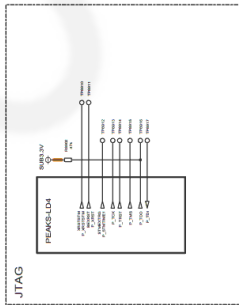
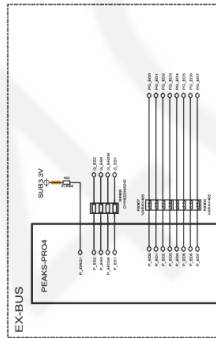
IC5000 STM



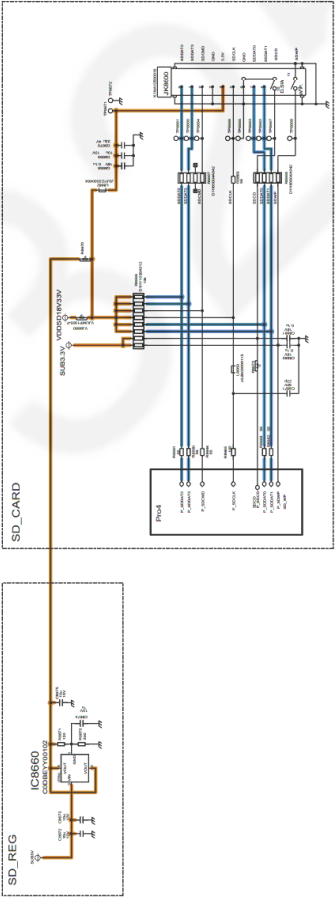
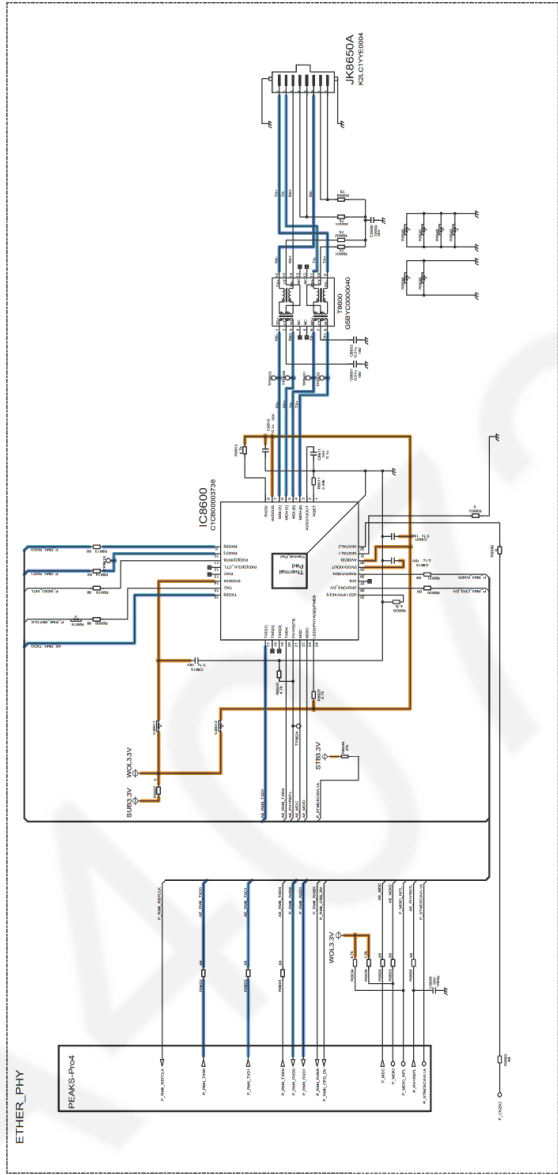
A-BOARD (7/17)



For USA only



A-BOARD (9/17)



81

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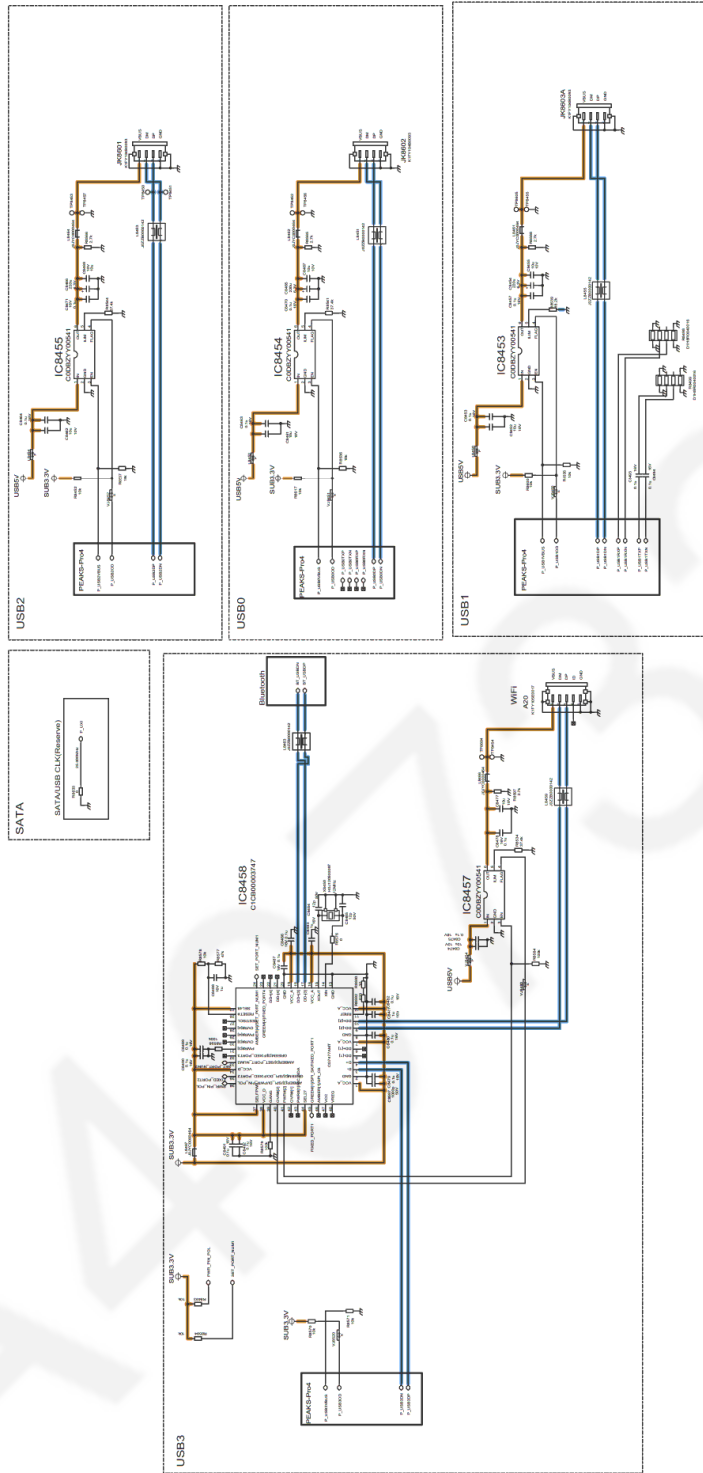
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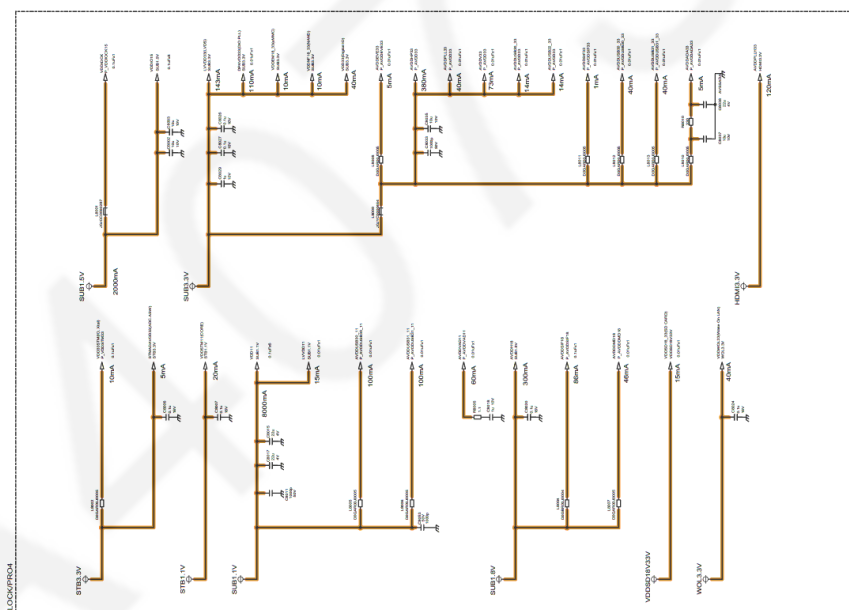
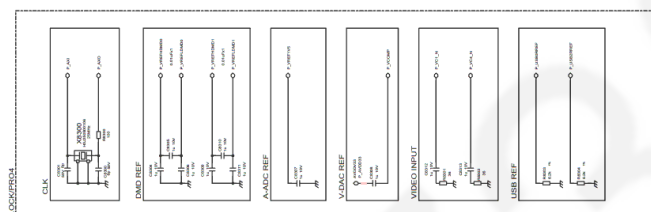
Pinout Diagram for STM32MP157C-DT

The diagram shows the pin configuration for the STM32MP157C-DT, organized into columns and rows. Each pin is labeled with its number and function. The functions are categorized into several groups:

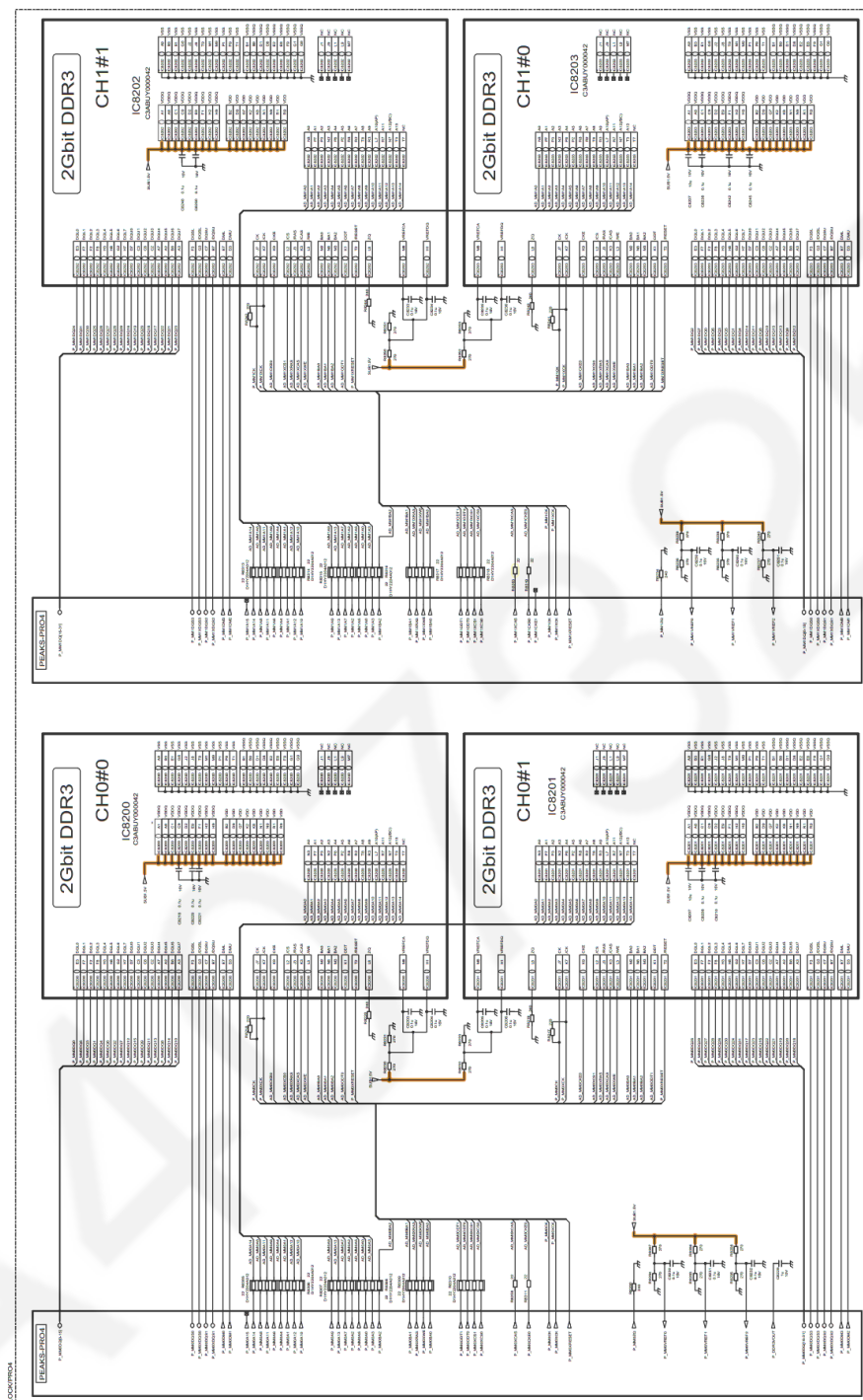
- Power Supply:** Includes pins for VDD, VDDA, VDDIO, VDDIO1, VDDIO2, VDDIO3, VDDIO4, VDDIO5, VDDIO6, VDDIO7, VDDIO8, VDDIO9, VDDIO10, VDDIO11, VDDIO12, VDDIO13, VDDIO14, VDDIO15, VDDIO16, VDDIO17, VDDIO18, VDDIO19, VDDIO20, VDDIO21, VDDIO22, VDDIO23, VDDIO24, VDDIO25, VDDIO26, VDDIO27, VDDIO28, VDDIO29, VDDIO30, VDDIO31, VDDIO32, VDDIO33, VDDIO34, VDDIO35, VDDIO36, VDDIO37, VDDIO38, VDDIO39, VDDIO40, VDDIO41, VDDIO42, VDDIO43, VDDIO44, VDDIO45, VDDIO46, VDDIO47, VDDIO48, VDDIO49, VDDIO50, VDDIO51, VDDIO52, VDDIO53, VDDIO54, VDDIO55, VDDIO56, VDDIO57, VDDIO58, VDDIO59, VDDIO60, VDDIO61, VDDIO62, VDDIO63, VDDIO64, VDDIO65, VDDIO66, VDDIO67, VDDIO68, VDDIO69, VDDIO70, VDDIO71, VDDIO72, VDDIO73, VDDIO74, VDDIO75, VDDIO76, VDDIO77, VDDIO78, VDDIO79, VDDIO80, VDDIO81, VDDIO82, VDDIO83, VDDIO84, VDDIO85, VDDIO86, VDDIO87, VDDIO88, VDDIO89, VDDIO90, VDDIO91, VDDIO92, VDDIO93, VDDIO94, VDDIO95, VDDIO96, VDDIO97, VDDIO98, VDDIO99, VDDIO100, VDDIO101, VDDIO102, VDDIO103, VDDIO104, VDDIO105, VDDIO106, VDDIO107, VDDIO108, VDDIO109, VDDIO110, VDDIO111, VDDIO112, VDDIO113, VDDIO114, VDDIO115, VDDIO116, VDDIO117, VDDIO118, VDDIO119, VDDIO120, VDDIO121, VDDIO122, VDDIO123, VDDIO124, VDDIO125, VDDIO126, VDDIO127, VDDIO128, VDDIO129, VDDIO130, VDDIO131, VDDIO132, VDDIO133, VDDIO134, VDDIO135, VDDIO136, VDDIO137, VDDIO138, VDDIO139, VDDIO140.
- Digital Input/Output:** Includes pins for GPIO, I2C, SPI, UART, and other digital interfaces.
- Analog Input/Output:** Includes pins for ADC, DAC, and other analog interfaces.
- Control Signals:** Includes pins for reset, clock, and other control signals.

The diagram is organized into columns and rows, with each pin labeled with its number and function. The functions are categorized into several groups:

- Power Supply:** Includes pins for VDD, VDDA, VDDIO, VDDIO1, VDDIO2, VDDIO3, VDDIO4, VDDIO5, VDDIO6, VDDIO7, VDDIO8, VDDIO9, VDDIO10, VDDIO11, VDDIO12, VDDIO13, VDDIO14, VDDIO15, VDDIO16, VDDIO17, VDDIO18, VDDIO19, VDDIO20, VDDIO21, VDDIO22, VDDIO23, VDDIO24, VDDIO25, VDDIO26, VDDIO27, VDDIO28, VDDIO29, VDDIO30, VDDIO31, VDDIO32, VDDIO33, VDDIO34, VDDIO35, VDDIO36, VDDIO37, VDDIO38, VDDIO39, VDDIO40, VDDIO41, VDDIO42, VDDIO43, VDDIO44, VDDIO45, VDDIO46, VDDIO47, VDDIO48, VDDIO49, VDDIO50, VDDIO51, VDDIO52, VDDIO53, VDDIO54, VDDIO55, VDDIO56, VDDIO57, VDDIO58, VDDIO59, VDDIO60, VDDIO61, VDDIO62, VDDIO63, VDDIO64, VDDIO65, VDDIO66, VDDIO67, VDDIO68, VDDIO69, VDDIO70, VDDIO71, VDDIO72, VDDIO73, VDDIO74, VDDIO75, VDDIO76, VDDIO77, VDDIO78, VDDIO79, VDDIO80, VDDIO81, VDDIO82, VDDIO83, VDDIO84, VDDIO85, VDDIO86, VDDIO87, VDDIO88, VDDIO89, VDDIO90, VDDIO91, VDDIO92, VDDIO93, VDDIO94, VDDIO95, VDDIO96, VDDIO97, VDDIO98, VDDIO99, VDDIO100, VDDIO101, VDDIO102, VDDIO103, VDDIO104, VDDIO105, VDDIO106, VDDIO107, VDDIO108, VDDIO109, VDDIO110, VDDIO111, VDDIO112, VDDIO113, VDDIO114, VDDIO115, VDDIO116, VDDIO117, VDDIO118, VDDIO119, VDDIO120, VDDIO121, VDDIO122, VDDIO123, VDDIO124, VDDIO125, VDDIO126, VDDIO127, VDDIO128, VDDIO129, VDDIO130, VDDIO131, VDDIO132, VDDIO133, VDDIO134, VDDIO135, VDDIO136, VDDIO137, VDDIO138, VDDIO139, VDDIO140.
- Digital Input/Output:** Includes pins for GPIO, I2C, SPI, UART, and other digital interfaces.
- Analog Input/Output:** Includes pins for ADC, DAC, and other analog interfaces.
- Control Signals:** Includes pins for reset, clock, and other control signals.

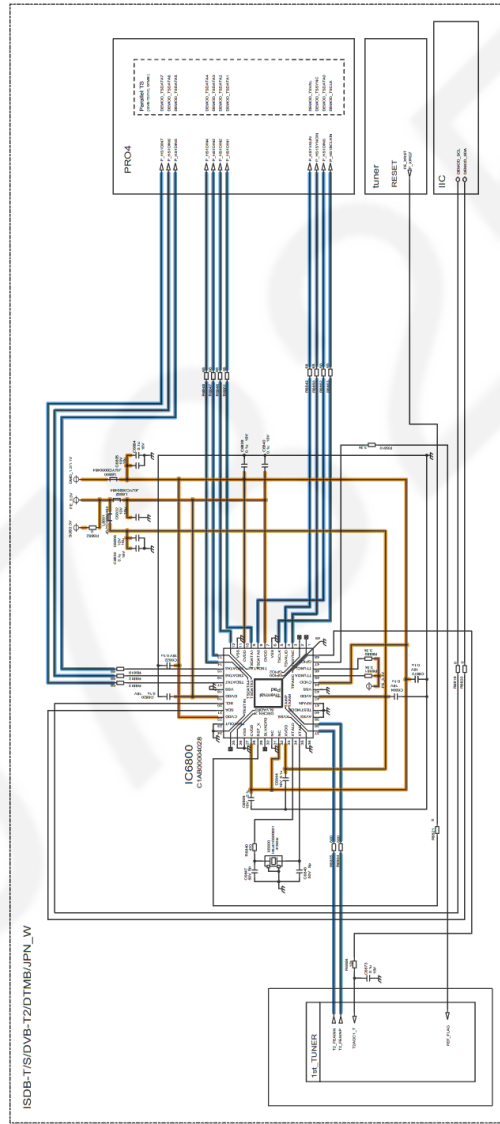
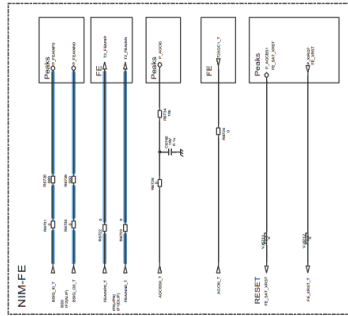
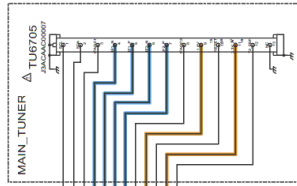
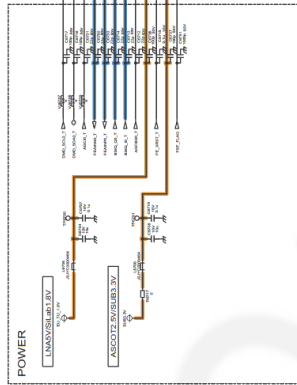
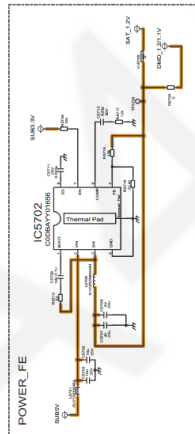


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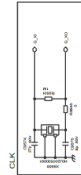
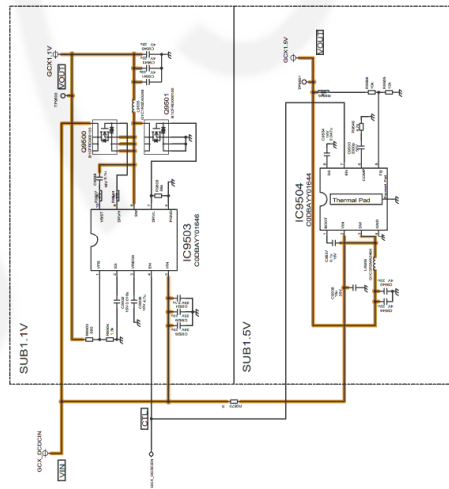
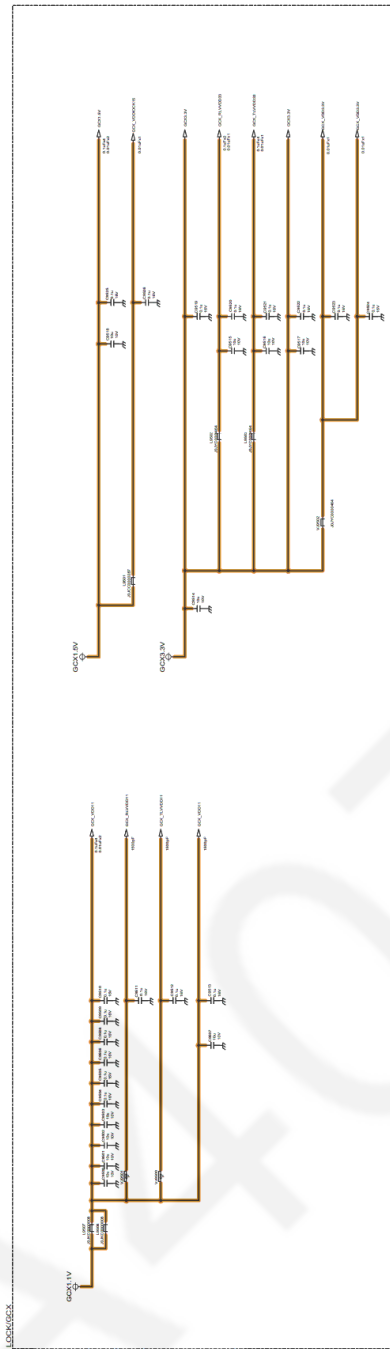
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A-BOARD (14/17)

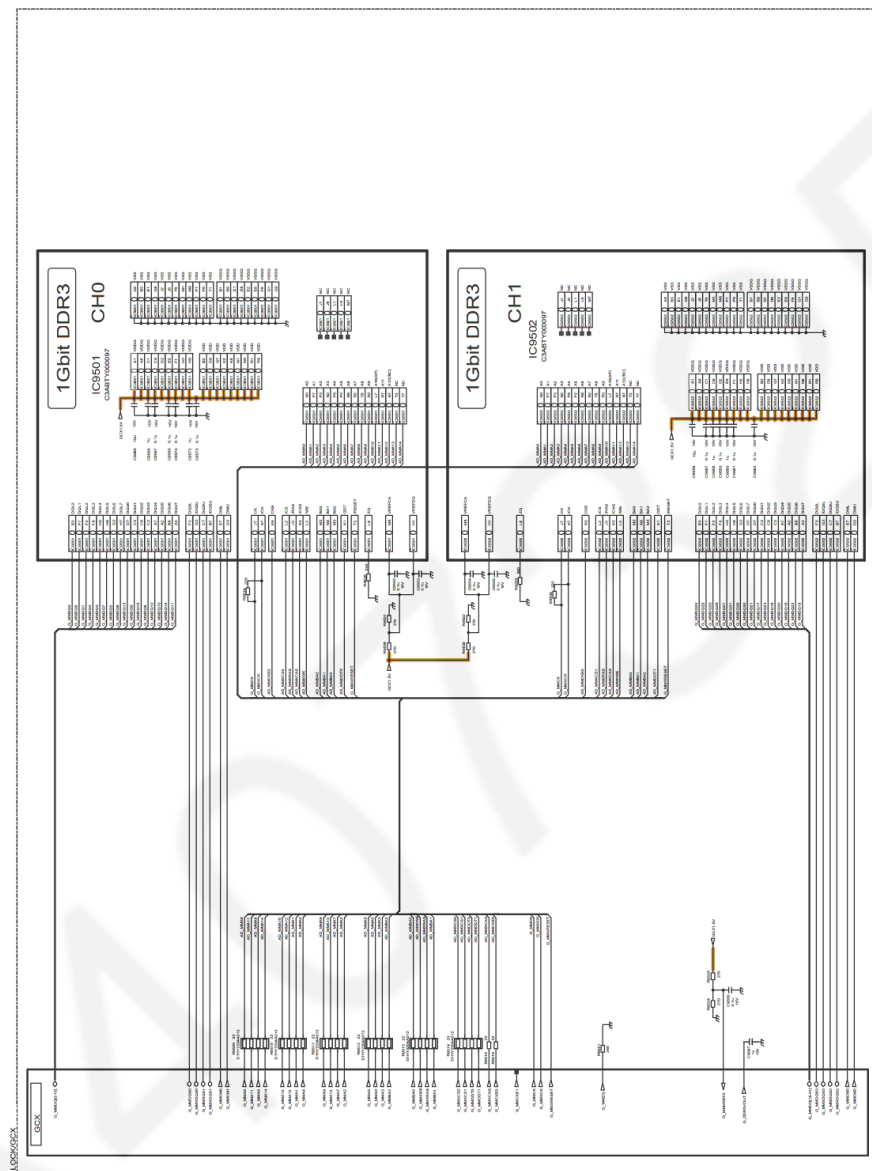


127	128	129	130	131	132	133	134	135
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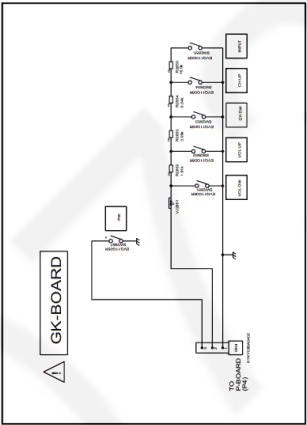
A-BOARD (16/17)

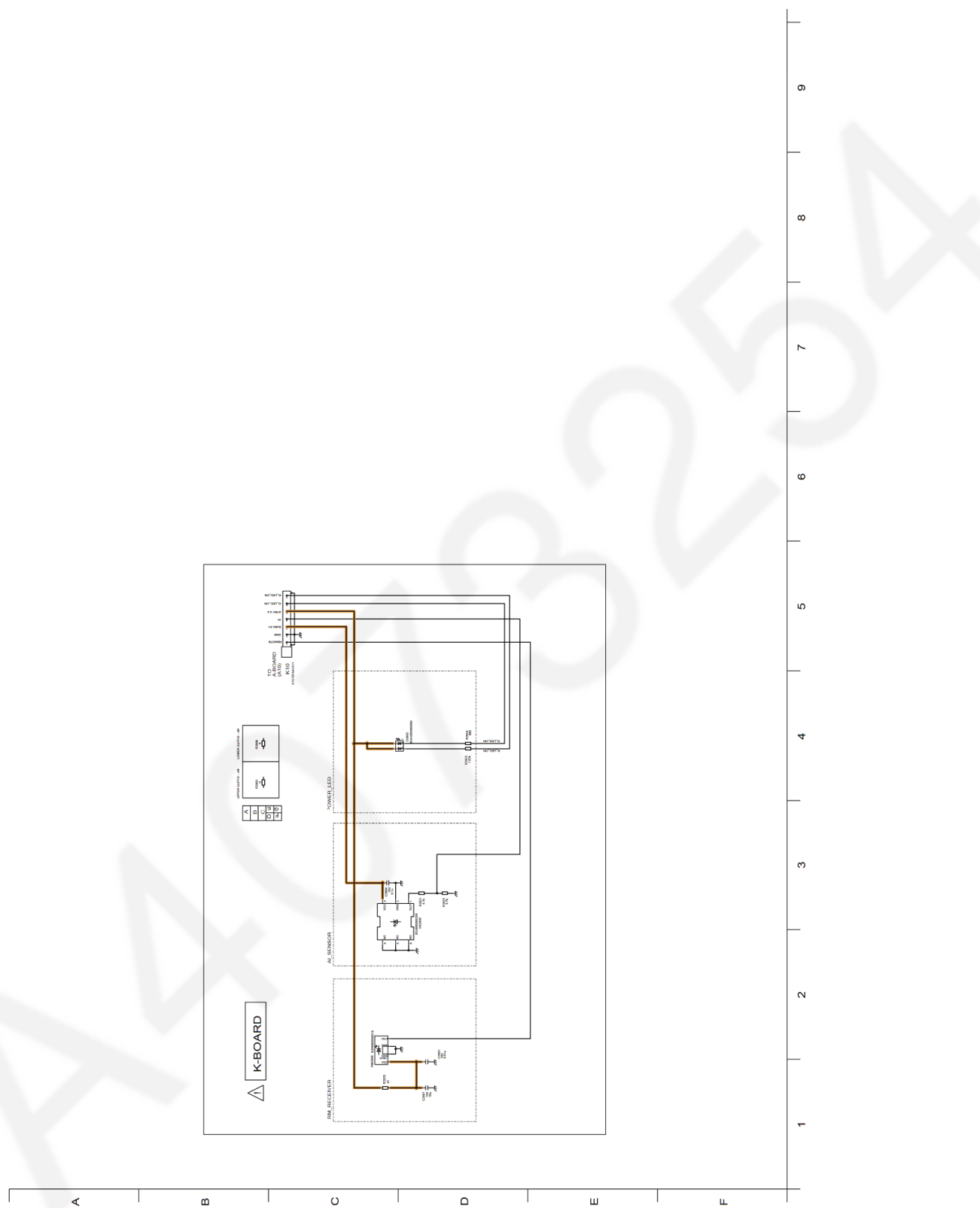


A-BOARD (17/17)

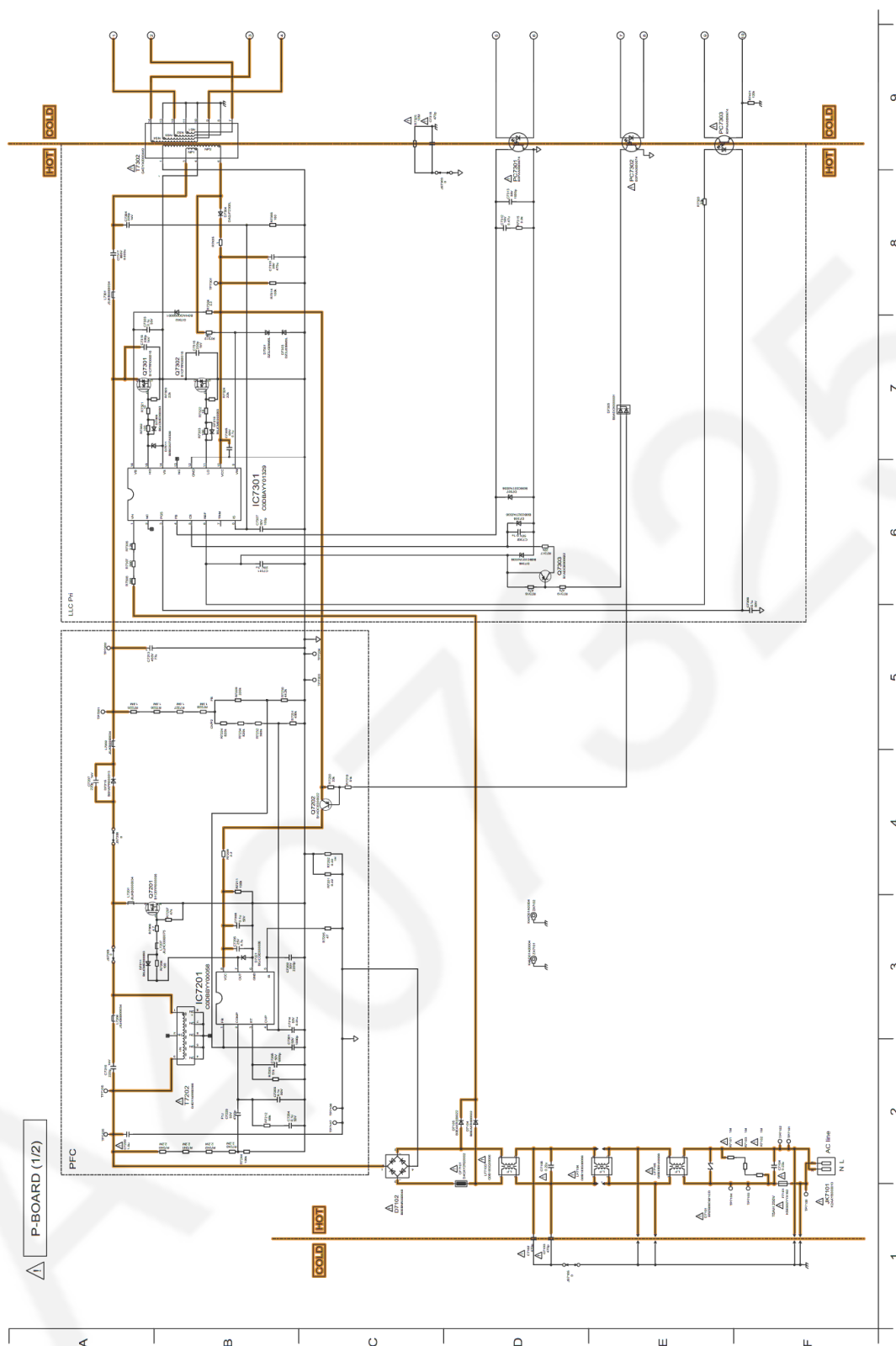


145 146 147 148 149 150 151 152 153

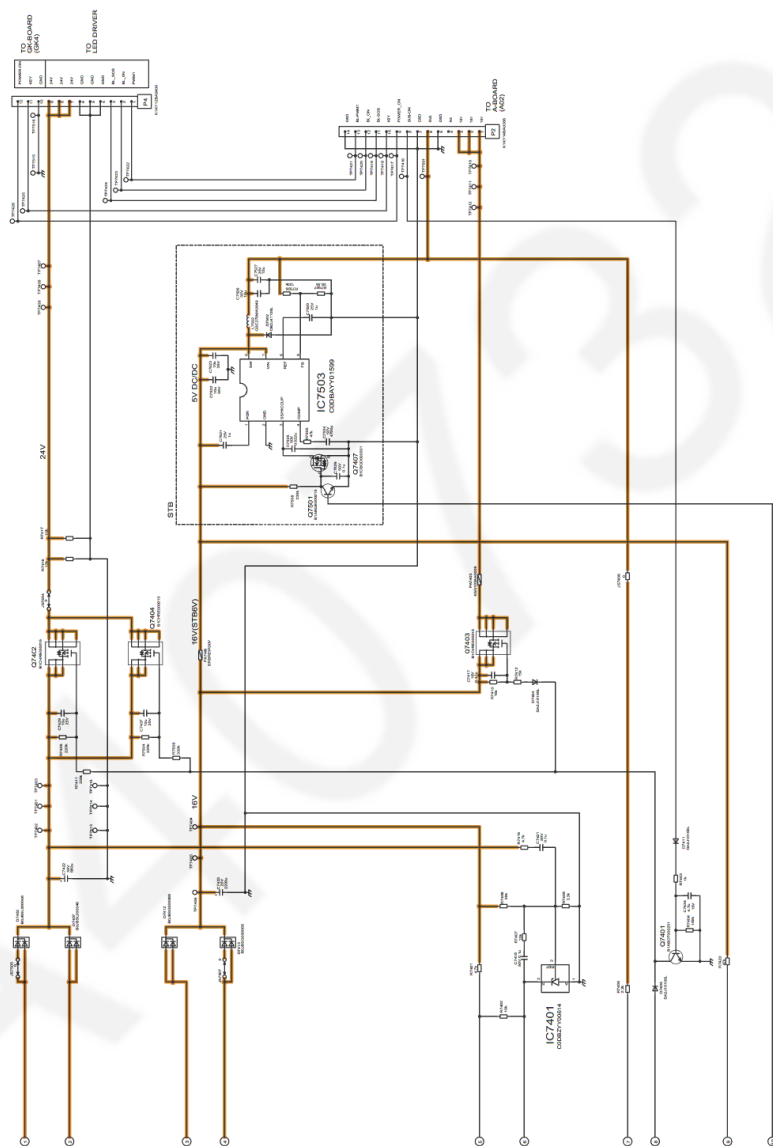




Model No. : TH-L50DT60S P-Board (1/2)



P-BOARD (2/2)

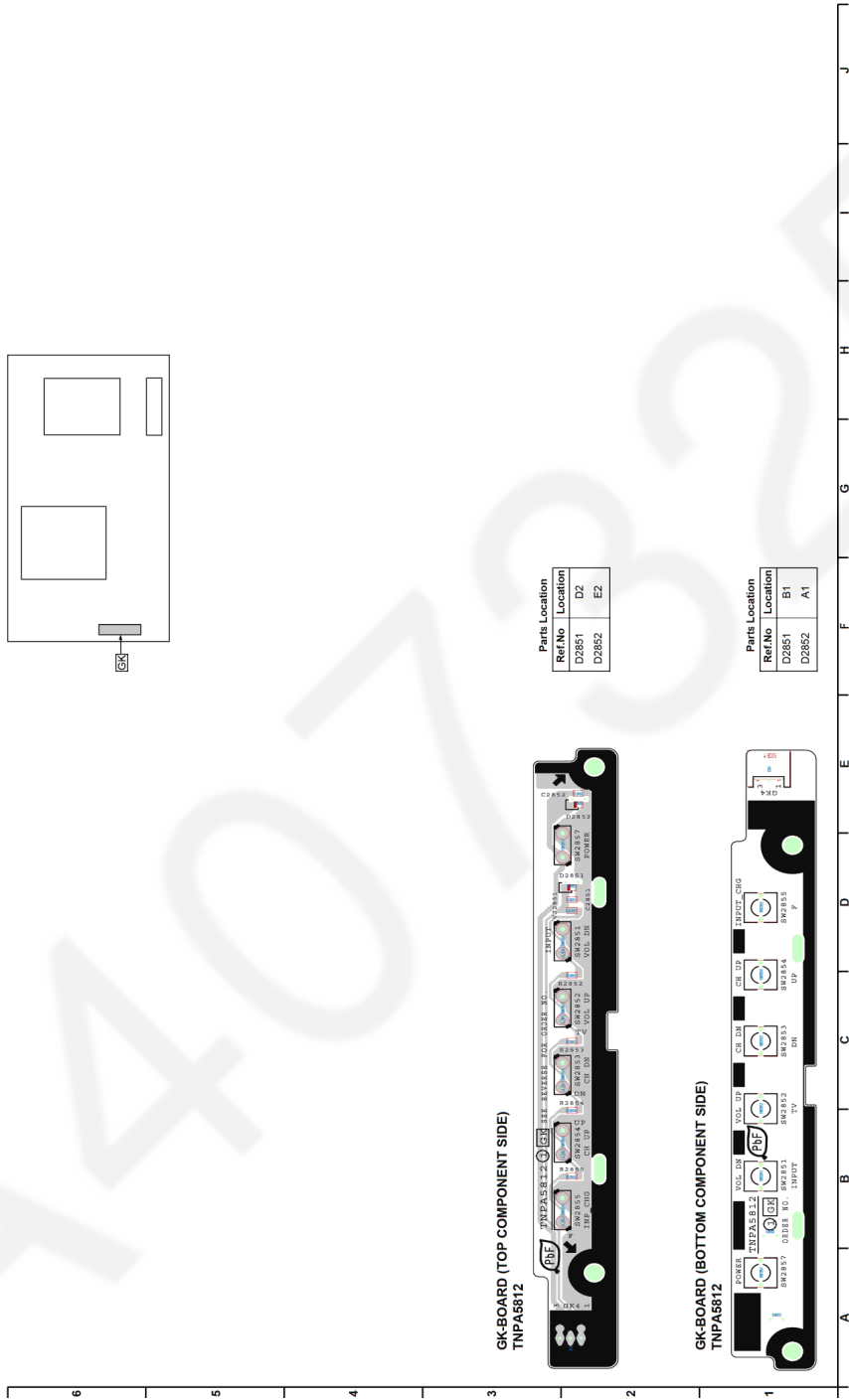


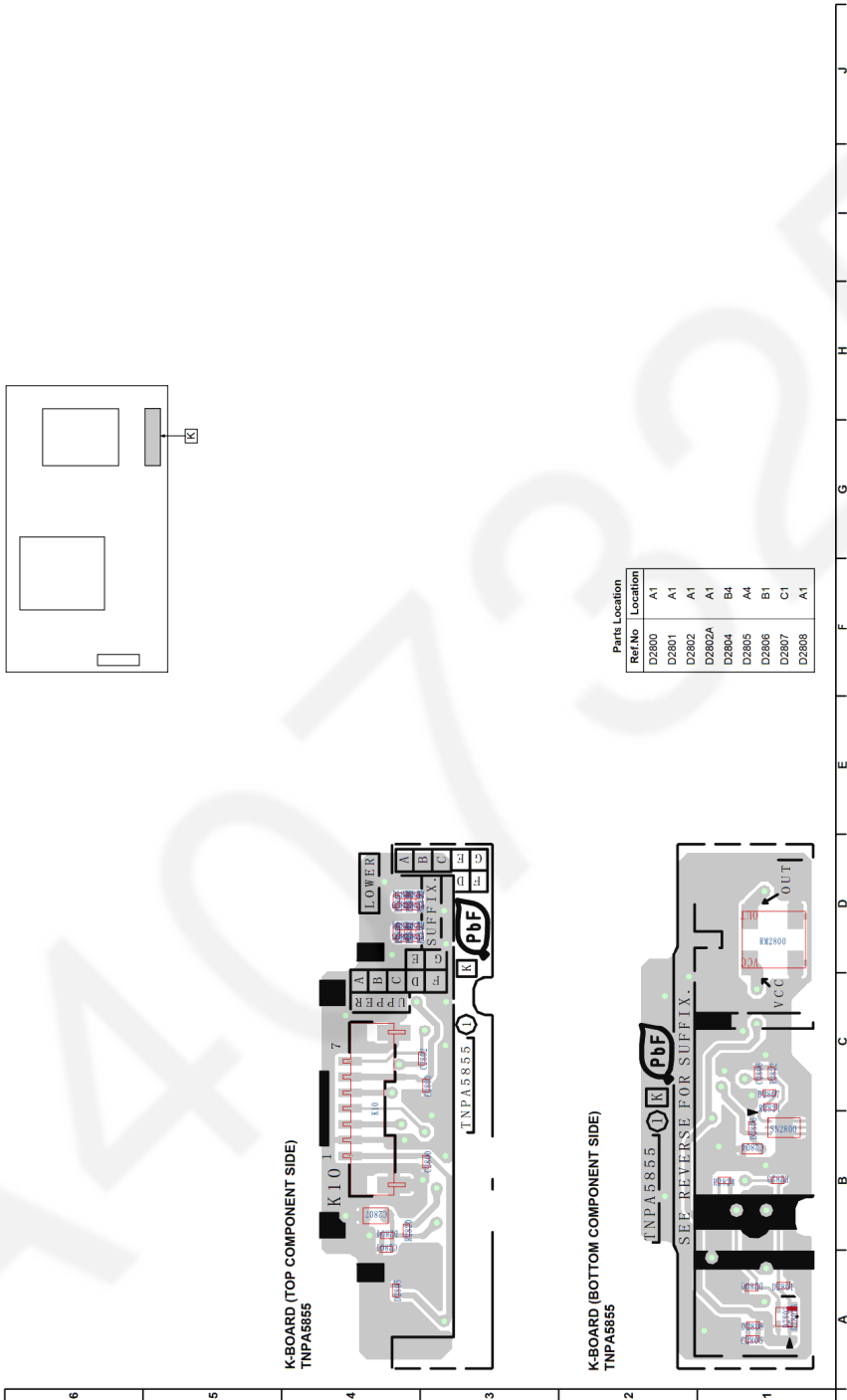
10 11 12 13 14 15 16 17 18

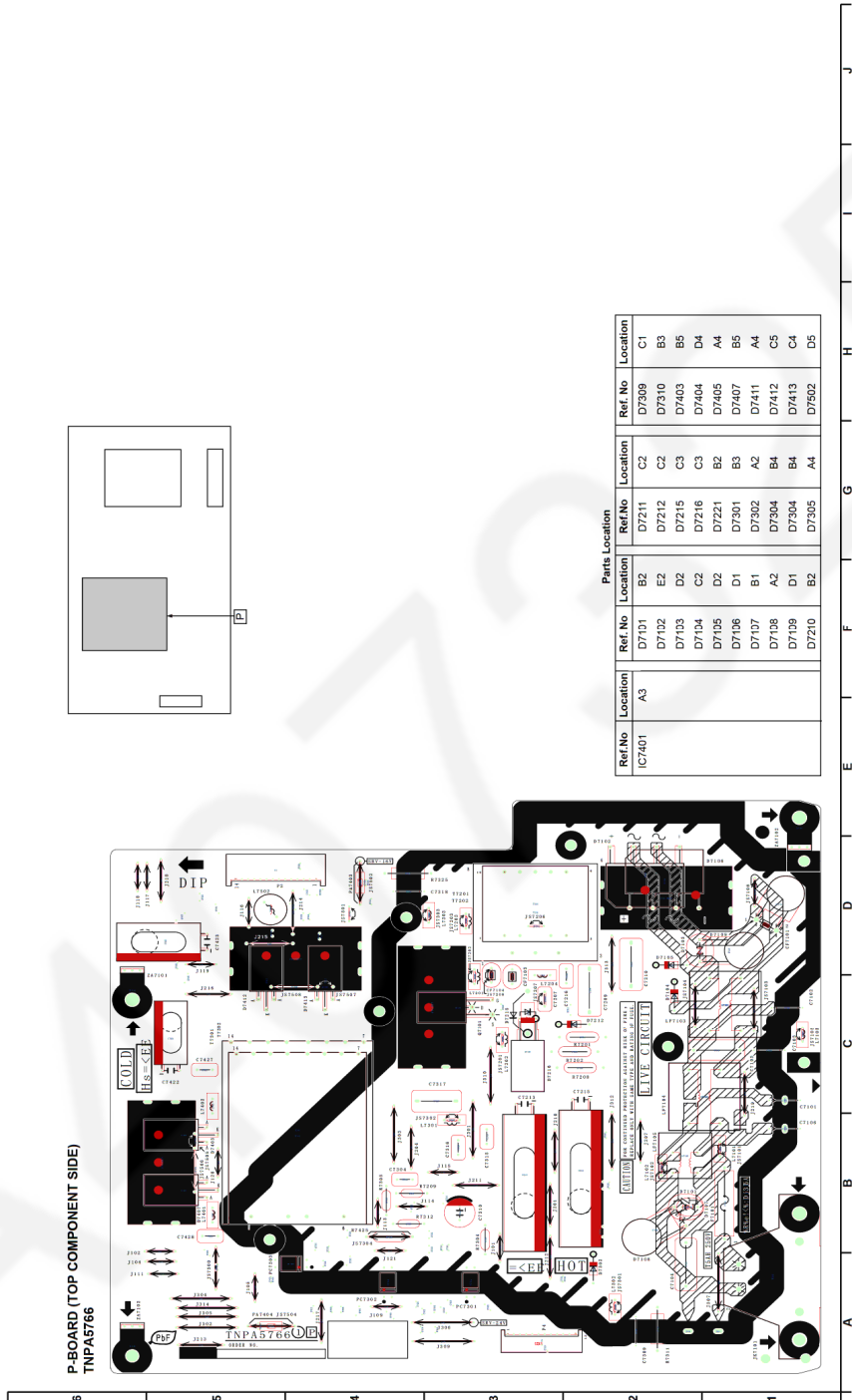
Model No. : TH-L50DT60S A-Board (Top Component Side)



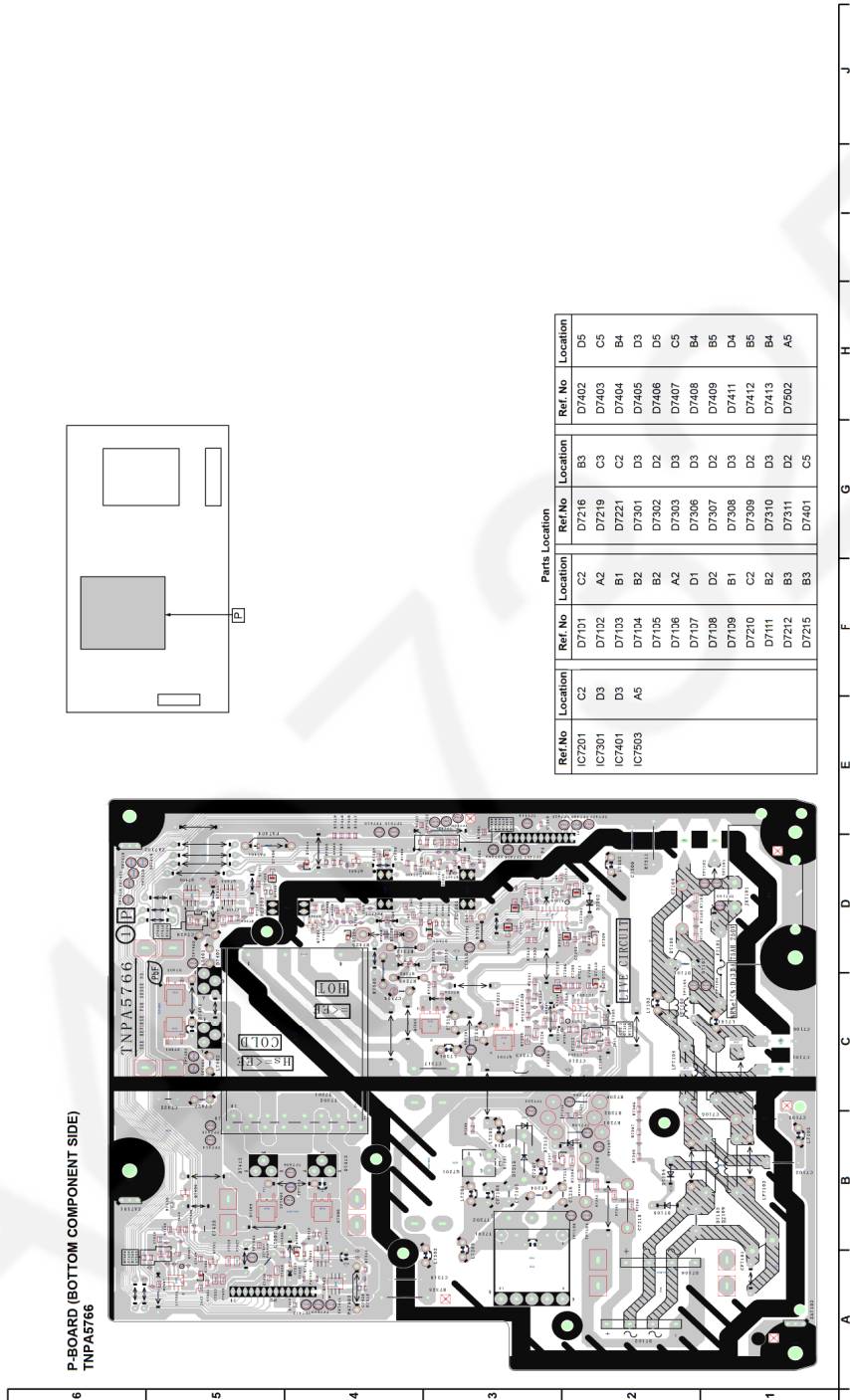






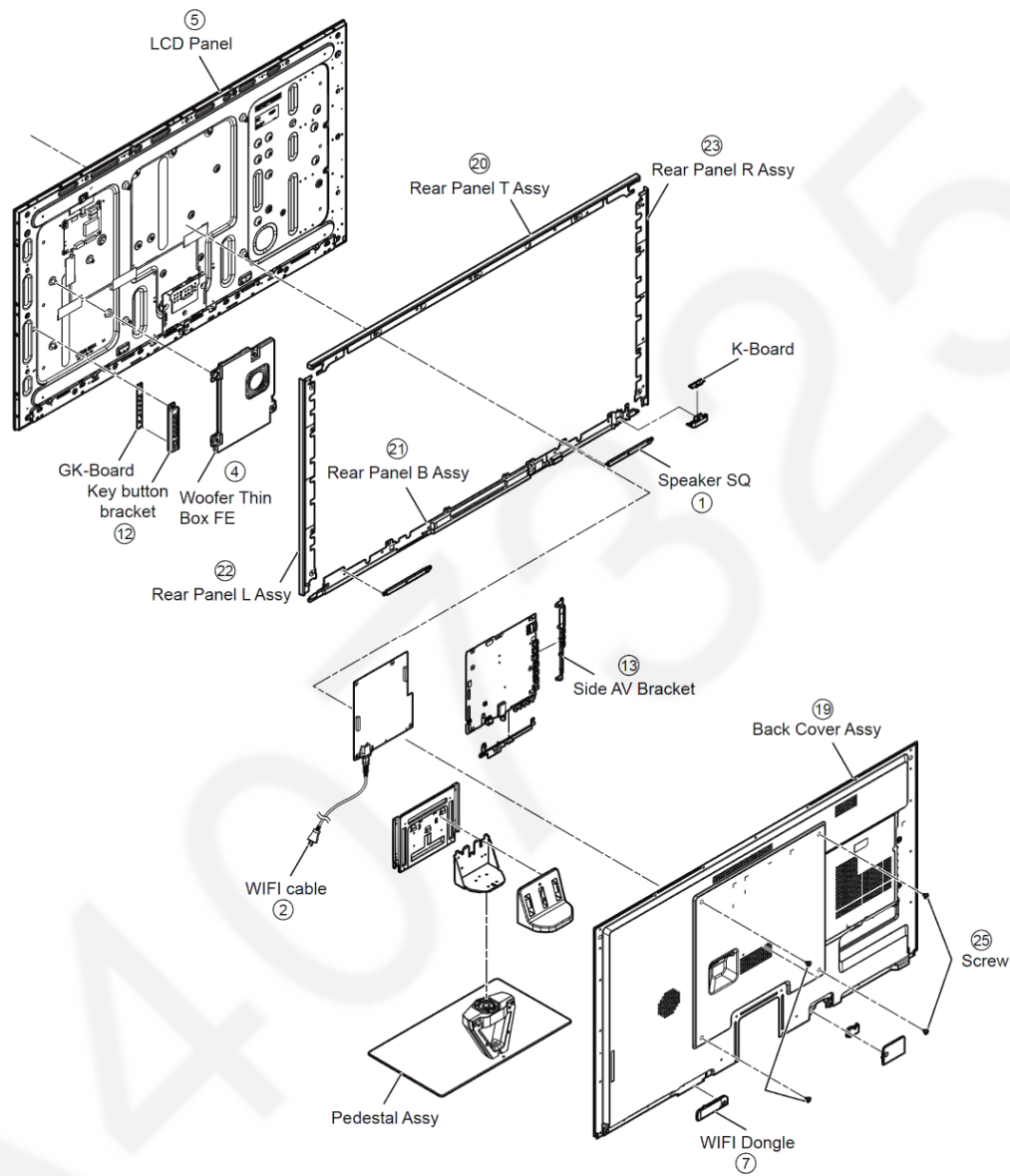


Model No. : TH-L50DT60S P-Board (Bottom Component Side)



13 Exploded View and Replacement Parts List

Model No. : TH-L50DT60S Parts Location

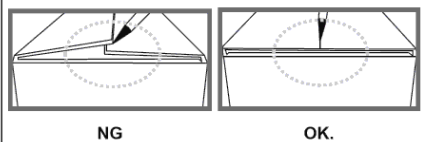


Model No. : TH-L50DT60S Packing Exploded View 1

1. Tape bottom flap of packing case with PP Tape.
2. Fix the bottom cushion into Packing Case.
3. Locate and fix the LCD set at bottom cushion firmly.
4. Locate and fix the Pedestal Ass'y at bottom cushion firmly.

Caution point :

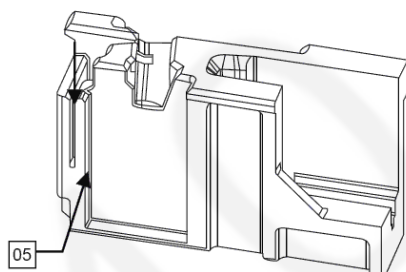
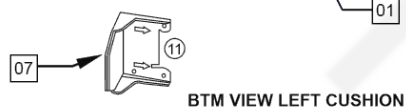
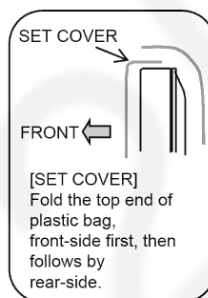
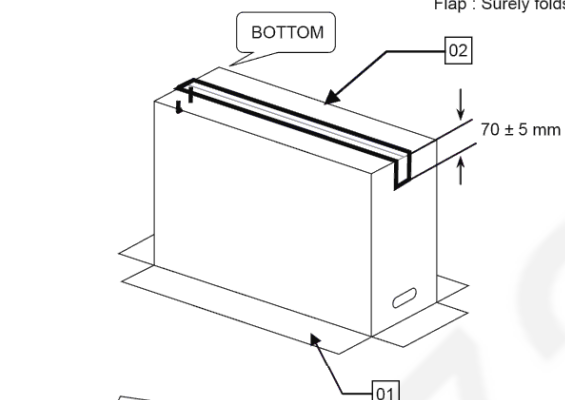
Need to make sure packing case top & bottom isn't **overlap** and **bending**.



No	Description	Qty	UOM
01	CARTON	1	PC
02	PP TAPE	3.08	MT
03	SET COVER	1	PC
04	FRONT CUSHION	1	PC
05	BOTTOM CUSHION	1	MT
06	REMOTE CONTROL	1	PC
07	STAND ACC ASSY	1	PC
08	TOUCH REMOTE	1	PC
09	FAN BAG	1	PC
10	PACKED PEDESTAL	1	PC

CAUTION :

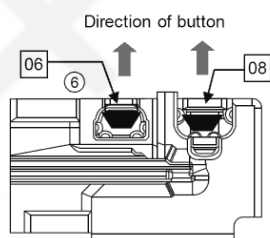
Flap : Surely folds



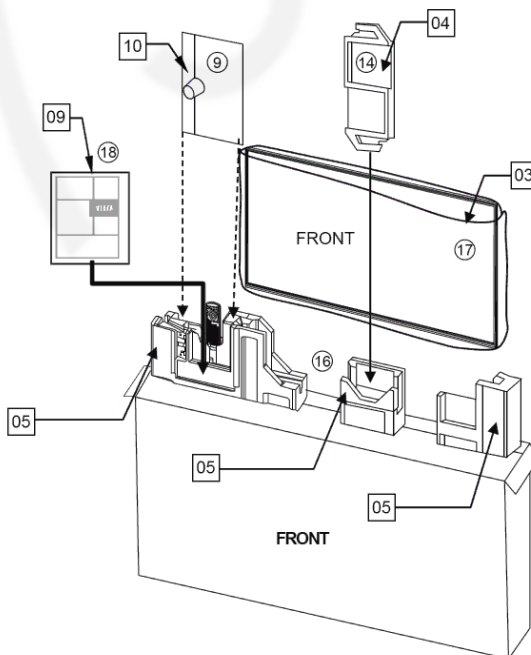
[Note]
LED direction top.



LED



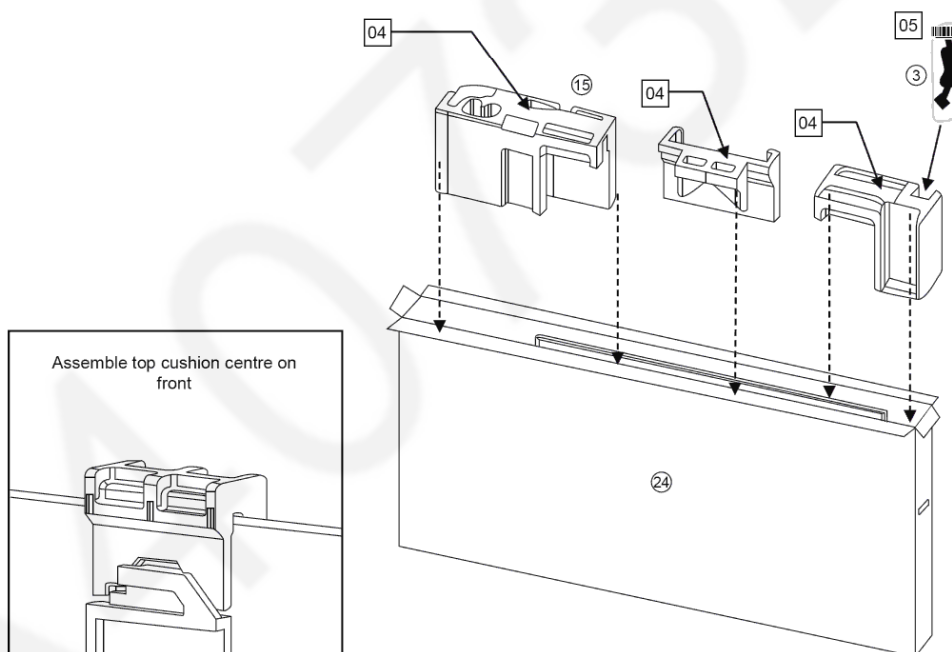
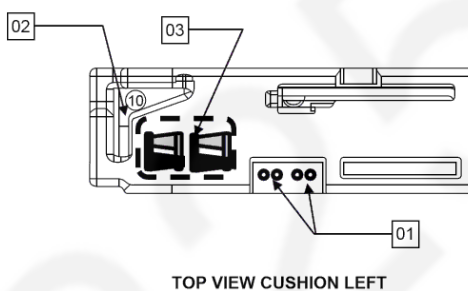
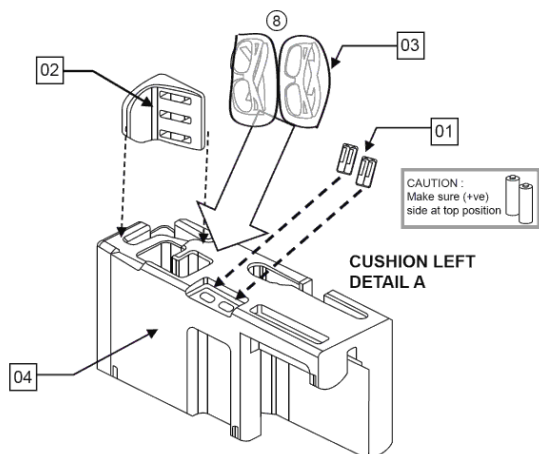
BTM VIEW RIGHT CUSHION



Model No. : TH-L50DT60S Packing Exploded View 2

Locate accessories into top & btm cushion accordingly.

No	Description	Qty	UOM
01	BATTERIES	2	PC
02	STAND_COVER_ASSY	1	PC
03	3D GLASSES	4	PC
04	CUSHION TOP	1	PC
05	AC CORD	1	PC



Model No. : TH-L50DT60S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITOR						
		C2000	F1G1A105A047	C 1UF 10V		
		C2001	F1G1H1020008	C 1000PF 50V		
		C2003	F1G1H1020008	C 1000PF 50V		
		C2009	F1G1H1020008	C 1000PF 50V		
		C2012	F1G1E103A059	C 0.01UF 25V		
		C2014	F1K1V106A010	C 10UF, 25V		
		C2023	F1G1C104A077	C 0.1UF 16V		
		C2026	F1G1H1020008	C 1000PF 50V		
		C2801	F1G1C1030008	C 0.01UF 16V		
		C2804	F1H1C104A178	C 0.1UF , 16V		
		C2807	F1J1A106A043	C 10UF, 10V		
		C3000	F1G1C104A077	C 0.1UF 16V		
		C3171	F1G1A105A047	C 1UF 10V		
		C3172	F1G1A105A047	C 1UF 10V		
		C3175	F1G1A105A047	C 1UF 10V		
		C3181	F1G1A105A047	C 1UF 10V		
		C3182	F1G1A105A047	C 1UF 10V		
		C4004	F1K1V106A010	C 10UF, 25V		
		C4005	F1K1V106A010	C 10UF, 25V		
		C4006	F1G1E103A059	C 0.01UF 25V		
		C4008	F1G1E103A059	C 0.01UF 25V		
		C4009	F1G1H330A834	C 33PF, 50V		
		C4010	F1G1H330A834	C 33PF, 50V		
		C4011	F1G1H330A834	C 33PF, 50V		
		C4012	F1G1H330A834	C 33PF, 50V		
		C4013	F1G1H330A834	C 33PF, 50V		
		C4014	F1G1H330A834	C 33PF, 50V		
		C4015	F1G1H330A834	C 33PF, 50V		
		C4016	F1G1H330A834	C 33PF, 50V		
		C4701	F1G1A105A047	C 1UF 10V		
		C4901	F1G1C104A077	C 0.1UF 16V		
		C4902	F1G1C104A077	C 0.1UF 16V		
		C4903	F1G1C104A077	C 0.1UF 16V		
		C4904	F1G1C104A077	C 0.1UF 16V		
		C4905	F1G1C104A077	C 0.1UF 16V		
		C4906	F1H1C105A167	C 1UF, 10V		
		C4909	F1J1E105A287	C 1UF, 25V		
		C4910	F1J1E224A272	C 0.22UF, 25V		
		C4914	F1K1V106A010	C 10UF, 25V		
		C4916	F1J1E224A272	C 0.22UF, 25V		
		C4919	F1J1E105A287	C 1UF, 25V		
		C4924	F1J1E224A272	C 0.22UF, 25V		
		C4926	F1K1V106A010	C 10UF, 25V		
		C4928	F1J1E105A287	C 1UF, 25V		
		C4930	F1K1V106A010	C 10UF, 25V		
		C4933	F1J1E224A272	C 0.22UF, 25V		
		C4934	F1J1E105A287	C 1UF, 25V		
		C4937	F1J1E334A272	C 0.33UF, 25V		
		C4938	F1J1E334A272	C 0.33UF, 25V		
		C4951	F1H1C105A167	C 1UF, 10V		
		C4953	F1J1E105A287	C 1UF, 25V		
		C4955	F1J1E105A287	C 1UF, 25V		
		C4957	F1J1E105A287	C 1UF, 25V		
		C4959	F1J1E105A287	C 1UF, 25V		
		C4964	F1H1E104A161	C 0.1UF , 25V		
		C4965	F1H1E104A161	C 0.1UF , 25V		
		C4968	F1J1E224A272	C 0.22UF, 25V		
		C5000	F1G1A105A047	C 1UF 10V		
		C5002	F1G1A105A047	C 1UF 10V		
		C5004	F1G1A105A047	C 1UF 10V		
		C5006	F1J1E105A287	C 1UF, 25V		

Model No. : TH-L50DT60S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5012	F1G1A105A047	C 1UF 10V		
		C5020	F1G1C104A077	C 0.1UF 16V		
		C5021	F1G1A105A047	C 1UF 10V		
		C5022	F1G1A105A047	C 1UF 10V		
		C5026	F1H1C105A167	C 1UF, 10V		
		C5150	F1G1E103A059	C 0.01UF 25V		
		C5151	F1G1E103A059	C 0.01UF 25V		
		C5171	F1G1C1030008	C 0.01UF 16V		
		C5318	F1G1C104A077	C 0.1UF 16V		
		C5319	F1K1V106A010	C 10UF, 25V		
		C5320	F1K1V106A010	C 10UF, 25V		
		C5321	F1K1V106A010	C 10UF, 25V		
		C5322	F1K1V106A010	C 10UF, 25V		
		C5323	F1K1V106A010	C 10UF, 25V		
		C5324	F1K1V106A010	C 10UF, 25V		
		C5328	F1G1H332A830	C 3300PF, 50V		
		C5329	F1G1E333A144	C 0.033UF 25V		
		C5400	F1K1V106A010	C 10UF, 25V		
		C5401	F1K1V106A010	C 10UF, 25V		
		C5402	F1G1C104A077	C 0.1UF 16V		
		C5403	F1J0J2260004	C 22 UF 6.3 V		
		C5404	F1J0J2260004	C 22 UF 6.3 V		
		C5407	F1G1E822A144	C 8200PF, 25V		
		C5408	F1G1A105A047	C 1UF 10V		
		C5410	F1G1H100A834	C 10PF 50V		
		C5420	F1K1V106A010	C 10UF, 25V		
		C5421	F1K1V106A010	C 10UF, 25V		
		C5422	F1G1C104A077	C 0.1UF 16V		
		C5423	F1J1A106A043	C 10UF, 10V		
		C5424	F1J1A106A043	C 10UF, 10V		
		C5425	F1J1A106A043	C 10UF, 10V		
		C5426	F1J1A106A043	C 10UF, 10V		
		C5427	F1G1E333A144	C 0.033UF 25V		
		C5428	F1G1H222A830	C 2200PF, 50V		
		C5440	F1K1V106A010	C 10UF, 25V		
		C5443	F1J1A106A043	C 10UF, 10V		
		C5444	F1J1A106A043	C 10UF, 10V		
		C5445	F1J1A106A043	C 10UF, 10V		
		C5446	F1J1A106A043	C 10UF, 10V		
		C5449	F1G1H222A830	C 2200PF, 50V		
		C5450	F1G1H680A834	C 68 pF 50 V		
		C5453	F1G1E104A145	C 0.1UF , 25V		
		C5705	F1K1V106A010	C 10UF, 25V		
		C5706	F1K1V106A010	C 10UF, 25V		
		C5707	F1J0G2260001	C 22 UF 4 V		
		C5708	F1J0G2260001	C 22 UF 4 V		
		C5709	F1G1C104A077	C 0.1UF 16V		
		C5711	F1G1E333A144	C 0.033UF 25V		
		C5713	F1G1H821A830	C 820 pF 50 V		
		C6704	F1J1A106A043	C 10UF, 10V		
		C6707	F1G1C104A077	C 0.1UF 16V		
		C6708	F1J1A106A043	C 10UF, 10V		
		C6710	F1G1C104A077	C 0.1UF 16V		
		C6712	F1G1H220A834	C 22PF, 50V		
		C6713	F1G1H220A834	C 22PF, 50V		
		C6714	F1G1H220A834	C 22PF, 50V		
		C6715	F1G1C104A077	C 0.1UF 16V		
		C6716	F1G1H101A834	C 100PF 50V		
		C6717	F1G1H101A834	C 100PF 50V		
		C6718	F1G1H101A834	C 100PF 50V		
		C6731	F1G1H220A834	C 22PF, 50V		
		C6733	F1G1H220A834	C 22PF, 50V		

Model No. : TH-L50DT60S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6736	F1G1H101A834	C 100PF 50V		
		C6737	F1G1H101A834	C 100PF 50V		
		C6746	F1G1C104A077	C 0.1UF 16V		
		C6750	F1G1H220A834	C 22PF, 50V		
		C6751	F1G1H102A834	C 1000PF 50V		
		C6804	F1G1C104A077	C 0.1UF 16V		
		C6805	F1J1A106A043	C 10UF, 10V		
		C6806	F1J1A106A043	C 10UF, 10V		
		C6809	F1G1C104A077	C 0.1UF 16V		
		C6820	F1G1C104A077	C 0.1UF 16V		
		C6822	F1G1C104A077	C 0.1UF 16V		
		C6830	F1G1C104A077	C 0.1UF 16V		
		C6832	F1J1A106A043	C 10UF, 10V		
		C6838	F1G1C104A077	C 0.1UF 16V		
		C6840	F1G1C104A077	C 0.1UF 16V		
		C6844	F1G1C104A077	C 0.1UF 16V		
		C6847	F1G1H8R0A833	C 8PF , 50V		
		C6848	F1G1H8R0A833	C 8PF , 50V		
		C6864	F1G1C104A077	C 0.1UF 16V		
		C6872	F1G1C104A077	C 0.1UF 16V		
		C6873	F1G1C104A077	C 0.1UF 16V		
	⚠	C7102	F1AAF471A019	C 470PF , 250V		
	⚠	C7103	F1AAF471A019	C 470PF , 250V		
	⚠	C7104	F0CAF2240010	C 0.22UF , 240V		
	⚠	C7105	F0CAF2240010	C 0.22UF , 240V		
		C7201	F1J1H102A909	C 1000pF, 50V		
		C7202	F1J1H222A911	C 2200pF, 50V		
		C7203	F1J1H104A902	C 0.1UF, 50V		
		C7204	F1J1H104A902	C 0.1UF, 50V		
		C7205	F1J1H102A909	C 1000pF, 50V		
		C7206	F1J1E475A257	C 4.7UF, 25V		
		C7207	F1A3A221A060	C 220PF 1KV		
		C7208	F1J1H104A902	C 0.1UF, 50V		
		C7209	ECWFD2W155KC	C 1.5UF , 50V		
		C7213	F2A2W7700001	C 77UF , 450V		
		C7214	F1J1H103A900	C 0.01UF, 50V		
		C7216	F1A3A221A060	C 220PF 1KV		
		C7220	F1J1H472A900	C 4700PF , 50V		
		C7302	F1J1H104A902	C 0.1UF, 50V		
		C7303	F1J1H104A902	C 0.1UF, 50V		
		C7304	F1A3A221A060	C 220PF 1KV		
		C7305	F1J1H104A902	C 0.1UF, 50V		
		C7306	F1J1H104A902	C 0.1UF, 50V		
		C7307	F1J1H101A906	C 100PF, 50V		
		C7310	F2A1E4710124	C 470UF, 25V		
		C7311	F1J1E105A287	C 1UF, 25V		
		C7312	F1H1C474A178	C 0.47UF, 16V		
		C7313	F1J1H102A909	C 1000pF, 50V		
		C7315	F1A3A221A060	C 220PF 1KV		
		C7316	F1A3A221A060	C 220PF 1KV		
		C7317	ECWH8223HAC	C 0.022UF, Z, 800V		
		C7318	F1AAF471A019	C 470PF, 240V		
		C7417	F1H1C474A178	C 0.47UF, 16V		
		C7418	F1H1H104B047	C 0.1UF, 50V		
		C7421	F1H1H104B047	C 0.1UF, 50V		
		C7422	F2A1V6810043	C 680UF , 35V		
		C7423	F2A1E222B927	C 2200PF, 25V		
		C7429	F1K1E106A134	C 10UF, 25V		
		C7434	F1J1C475A225	C 4.7UF, 10V		
		C7437	F1K1E106A134	C 10UF, 25V		
		C7520	F1J1E105A287	C 1UF, 25V		
		C7521	F1J1E105A287	C 1UF, 25V		

Model No. : TH-L50DT60S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7522	F1K1V106A010	C 10UF, 25V		
		C7523	F1K1V106A010	C 10UF, 25V		
		C7524	F1J1H472A900	C 4700PF , 50V		
		C7525	F1J1H223A900	C 0.022UF, 50V		
		C7526	F1K1V106A010	C 10UF, 25V		
		C7527	F1K1V106A010	C 10UF, 25V		
		C7529	F1J1H104A902	C 0.1UF, 50V		
		C8002	F1J1A106A043	C 10UF, 10V		
		C8003	F1J1A106A043	C 10UF, 10V		
		C8006	F1G1C104A077	C 0.1UF 16V		
		C8007	F1G1C104A077	C 0.1UF 16V		
		C8011	F1G1H1020008	C 1000PF 50V		
		C8015	F1J0G2260001	C 22 UF 4 V		
		C8017	F1J0G2260001	C 22 UF 4 V		
		C8018	F1G1A105A047	C 1UF 10V		
		C8020	F1G1C104A077	C 0.1UF 16V		
		C8024	F1G1C104A077	C 0.1UF 16V		
		C8026	F1G1C104A077	C 0.1UF 16V		
		C8027	F1G1C104A077	C 0.1UF 16V		
		C8029	F1G1A105A047	C 1UF 10V		
		C8033	F1G1H1020008	C 1000PF 50V		
		C8035	F1J1A106A043	C 10UF, 10V		
		C8037	F1J1A106A043	C 10UF, 10V		
		C8038	F1J0G2260001	C 22 UF 4 V		
		C8053	F1G1H1020008	C 1000PF 50V		
		C8100	F1G1H331A830	C 330PF, 50V		
		C8101	F1J1A475A112	C 4.7UF, 10V		
		C8102	F1G1C183A146	C 0.018UF, 16V		
		C8103	F1G1C104A077	C 0.1UF 16V		
		C8104	F1K1V106A010	C 10UF, 25V		
		C8105	F1K1V106A010	C 10UF, 25V		
		C8106	F1J0G2260001	C 22 UF 4 V		
		C8107	F1J0G2260001	C 22 UF 4 V		
		C8108	F1J0G2260001	C 22 UF 4 V		
		C8109	F1G1C183A146	C 0.018UF, 16V		
		C8110	F1H1E105A153	C 1UF, 16V		
		C8111	F1G1C104A077	C 0.1UF 16V		
		C8112	F1K1V106A010	C 10UF, 25V		
		C8114	F1J0G2260001	C 22 UF 4 V		
		C8115	F1J0G2260001	C 22 UF 4 V		
		C8117	F1H1E104A161	C 0.1UF , 25V		
		C8119	F1H1E104A161	C 0.1UF , 25V		
		C8203	F1G1C104A077	C 0.1UF 16V		
		C8204	F1G1C104A077	C 0.1UF 16V		
		C8205	F1G1C104A077	C 0.1UF 16V		
		C8206	F1G1C104A077	C 0.1UF 16V		
		C8207	F1J1A106A043	C 10UF, 10V		
		C8208	F1G1C104A077	C 0.1UF 16V		
		C8210	F1G1C104A077	C 0.1UF 16V		
		C8218	F1G1C104A077	C 0.1UF 16V		
		C8220	F1G1C104A077	C 0.1UF 16V		
		C8221	F1G1C104A077	C 0.1UF 16V		
		C8229	F1G1A105A047	C 1UF 10V		
		C8230	F1G1C104A077	C 0.1UF 16V		
		C8231	F1G1C104A077	C 0.1UF 16V		
		C8232	F1G1C104A077	C 0.1UF 16V		
		C8233	F1G1C104A077	C 0.1UF 16V		
		C8234	F1G1C104A077	C 0.1UF 16V		
		C8235	F1G1C104A077	C 0.1UF 16V		
		C8236	F1G1C104A077	C 0.1UF 16V		
		C8237	F1J1A106A043	C 10UF, 10V		
		C8238	F1G1C104A077	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8242	F1G1C104A077	C 0.1UF 16V		
		C8245	F1G1C104A077	C 0.1UF 16V		
		C8248	F1G1C104A077	C 0.1UF 16V		
		C8250	F1G1C104A077	C 0.1UF 16V		
		C8259	F1G1C104A077	C 0.1UF 16V		
		C8260	F1G1C104A077	C 0.1UF 16V		
		C8261	F1G1C104A077	C 0.1UF 16V		
		C8300	F1G1H8R0A831	C 8 PF, 50V		
		C8301	F1G1H8R0A831	C 8 PF, 50V		
		C8304	F1G1A105A047	C 1UF 10V		
		C8305	F1G1A105A047	C 1UF 10V		
		C8306	F1G1A105A047	C 1UF 10V		
		C8307	F1G1A105A047	C 1UF 10V		
		C8308	F1G1A105A047	C 1UF 10V		
		C8309	F1G1A105A047	C 1UF 10V		
		C8310	F1G1A105A047	C 1UF 10V		
		C8311	F1G1A105A047	C 1UF 10V		
		C8312	F1G1A105A047	C 1UF 10V		
		C8313	F1G1A105A047	C 1UF 10V		
		C8452	F1J1A106A043	C 10UF, 10V		
		C8453	F1G1C104A077	C 0.1UF 16V		
		C8454	EEH0J221UP	E 220UF, 6.3V		
		C8455	F1J1A106A043	C 10UF, 10V		
		C8457	F1G1C104A077	C 0.1UF 16V		
		C8461	F1J1A106A043	C 10UF, 10V		
		C8462	F1J1A106A043	C 10UF, 10V		
		C8463	F1G1C104A077	C 0.1UF 16V		
		C8464	F1G1C104A077	C 0.1UF 16V		
		C8465	EEH0J221UP	E 220UF, 6.3V		
		C8466	EEH0J221UP	E 220UF, 6.3V		
		C8467	F1J1A106A043	C 10UF, 10V		
		C8469	F1J1A106A043	C 10UF, 10V		
		C8470	F1G1C104A077	C 0.1UF 16V		
		C8471	F1G1C104A077	C 0.1UF 16V		
		C8474	F1J1A106A043	C 10UF, 10V		
		C8475	F1G1C104A077	C 0.1UF 16V		
		C8477	F1J1A106A043	C 10UF, 10V		
		C8478	F1G1C104A077	C 0.1UF 16V		
		C8479	F1G1C104A077	C 0.1UF 16V		
		C8480	F1G1C104A077	C 0.1UF 16V		
		C8481	F1H1C105A167	C 1UF, 10V		
		C8482	F1G1C104A077	C 0.1UF 16V		
		C8483	F1H1C105A167	C 1UF, 10V		
		C8484	F1G1H120A834	C 12PF, 50V		
		C8485	F1G1H120A834	C 12PF, 50V		
		C8486	F1G1C104A077	C 0.1UF 16V		
		C8487	F1G1C104A077	C 0.1UF 16V		
		C8488	F1H1C105A167	C 1UF, 10V		
		C8489	F1G1C104A077	C 0.1UF 16V		
		C8490	F1G1C104A077	C 0.1UF 16V		
		C8491	F1G1C104A077	C 0.1UF 16V		
		C8492	F1G1C104A077	C 0.1UF 16V		
		C8493	F1G1C104A077	C 0.1UF 16V		
		C8494	F1G1C104A077	C 0.1UF 16V		
		C8597	F1G1H102A834	C 1000PF 50V		
		C8600	F1L3D1020008	C 1000PF 2000V		
		C8601	F1G1C1030008	C 0.01UF 16V		
		C8602	F1G1C1030008	C 0.01UF 16V		
		C8611	F1G1C104A077	C 0.1UF 16V		
		C8613	F1G1C104A077	C 0.1UF 16V		
		C8615	F1G1C104A077	C 0.1UF 16V		
		C8619	F1G1C104A077	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8621	F1G1C104A077	C 0.1UF 16V		
		C8636	F1G1H1020008	C 1000PF 50V		
		C8660	F1G1C104A077	C 0.1UF 16V		
		C8661	F1G1C104A077	C 0.1UF 16V		
		C8668	F1G1C104A077	C 0.1UF 16V		
		C8669	F1J1A106A043	C 10UF, 10V		
		C8670	F1J0G2260001	C 22 UF 4 V		
		C8671	F1G1H220A834	C 22PF, 50V		
		C8672	F1J1A106A043	C 10UF, 10V		
		C8673	F1J1A106A043	C 10UF, 10V		
		C8674	F1G1A105A047	C 1UF 10V		
		C8675	F1J1A106A043	C 10UF, 10V		
		C8757	F1J1A106A043	C 10UF, 10V		
		C8758	F1J1A106A043	C 10UF, 10V		
		C8764	F1G1A105A047	C 1UF 10V		
		C8765	F1G1A105A047	C 1UF 10V		
		C8854	F1G1H1020008	C 1000PF 50V		
		C8900	F1G1C104A077	C 0.1UF 16V		
		C8901	F1G1C104A077	C 0.1UF 16V		
		C9105	F1G1C104A077	C 0.1UF 16V		
		C9200	F1G1C1030008	C 0.01UF 16V		
		C9500	F1J1A106A043	C 10UF, 10V		
		C9501	F1J1A106A043	C 10UF, 10V		
		C9502	F1J1A106A043	C 10UF, 10V		
		C9503	F1J1A106A043	C 10UF, 10V		
		C9504	F1G1C104A077	C 0.1UF 16V		
		C9505	F1G1C104A077	C 0.1UF 16V		
		C9506	F1G1C104A077	C 0.1UF 16V		
		C9507	F1J1A106A043	C 10UF, 10V		
		C9508	F1G1C104A077	C 0.1UF 16V		
		C9509	F1G1C104A077	C 0.1UF 16V		
		C9510	F1G1C104A077	C 0.1UF 16V		
		C9511	F1G1C104A077	C 0.1UF 16V		
		C9512	F1G1C104A077	C 0.1UF 16V		
		C9513	F1G1C104A077	C 0.1UF 16V		
		C9514	F1J1A106A043	C 10UF, 10V		
		C9515	F1J1A106A043	C 10UF, 10V		
		C9516	F1J1A106A043	C 10UF, 10V		
		C9517	F1J1A106A043	C 10UF, 10V		
		C9518	F1J1A106A043	C 10UF, 10V		
		C9519	F1G1C104A077	C 0.1UF 16V		
		C9520	F1G1C104A077	C 0.1UF 16V		
		C9521	F1G1C104A077	C 0.1UF 16V		
		C9522	F1G1C104A077	C 0.1UF 16V		
		C9523	F1G1C104A077	C 0.1UF 16V		
		C9524	F1G1C104A077	C 0.1UF 16V		
		C9525	F1G1C104A077	C 0.1UF 16V		
		C9526	F1G1C104A077	C 0.1UF 16V		
		C9528	F1K1V106A010	C 10UF, 25V		
		C9529	F1K1V106A010	C 10UF, 25V		
		C9530	F1J1A475A112	C 4.7UF, 10V		
		C9531	F1H1E104A161	C 0.1UF , 25V		
		C9532	F1G1C183A146	C 0.018UF, 16V		
		C9533	F1G1H332A830	C 3300PF, 50V		
		C9534	F1G1C473A048	C 0.047UF, 16V		
		C9536	F1G1C104A077	C 0.1UF 16V		
		C9537	F1G1C104A077	C 0.1UF 16V		
		C9538	F1K1V106A010	C 10UF, 25V		
		C9541	F1J0G2260001	C 22 UF 4 V		
		C9542	F1J0G2260001	C 22 UF 4 V		
		C9543	F1J0G2260001	C 22 UF 4 V		
		C9544	F1J0G2260001	C 22 UF 4 V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C9545	F1J0G2260001	C 22 UF 4 V		
		C9547	F1G1A105A047	C 1UF 10V		
		C9550	F1G1C104A077	C 0.1UF 16V		
		C9552	F1G1C104A077	C 0.1UF 16V		
		C9553	F1G1C104A077	C 0.1UF 16V		
		C9554	F1G1C104A077	C 0.1UF 16V		
		C9555	F1G1C104A077	C 0.1UF 16V		
		C9556	F1J1A106A043	C 10UF, 10V		
		C9557	F1G1C104A077	C 0.1UF 16V		
		C9558	F1G1A105A047	C 1UF 10V		
		C9559	F1G1C104A077	C 0.1UF 16V		
		C9560	F1G1A105A047	C 1UF 10V		
		C9561	F1G1C104A077	C 0.1UF 16V		
		C9564	F1G1C104A077	C 0.1UF 16V		
		C9565	F1J1A106A043	C 10UF, 10V		
		C9566	F1G1A105A047	C 1UF 10V		
		C9567	F1G1C104A077	C 0.1UF 16V		
		C9569	F1G1C104A077	C 0.1UF 16V		
		C9570	F1G1C104A077	C 0.1UF 16V		
		C9572	F1G1A105A047	C 1UF 10V		
		C9573	F1G1C104A077	C 0.1UF 16V		
		C9574	F1G1H270A834	C 27PF , 50V		
		C9575	F1G1H8R0A831	C 8 PF, 50V		
DIODE						
		D3021	DZ2J140M0L	DIODE		
		D3022	DZ2J140M0L	DIODE		
		D3023	DZ2J140M0L	DIODE		
		D3024	DZ2J140M0L	DIODE		
		D3025	DZ2J140M0L	DIODE		
		D3026	DZ2J140M0L	DIODE		
		D3201	K7AAAY000014	DIODE		
		D4730	B0JCCD000020	DIODE		
		D4731	B0JCCD000020	DIODE		
		D5172	DZ2J220M0L	DIODE		
		D5173	DA2J10100L	DIODE		
		D5178	DZ2J068M0L	DIODE		
		D5179	B0ADCK000001	DIODE		
		D5180	DZ2J033M0L	DIODE		
		D5187	DZ2J047M0L	DIODE		
		D5188	B0ADCK000001	DIODE		
		D5191	B0ADCK000001	DIODE		
	⚠	D7101	ERZE08C621CD	SURGE ABSORBER		
		D7102	B0EBNR000048	DIODE		
		D7104	B0EAKR000022	DIODE		
		D7105	B0EAKR000022	DIODE		
		D7211	B0JCME000093	DIODE		
		D7215	B0HAPR000013	DIODE		
		D7221	B0JCDE000006	DIODE		
		D7301	DZ2J039M0L	DIODE		
		D7302	B0HAGQ000001	DIODE		
		D7303	DZ2J039M0L	DIODE		
		D7304	DA2JF2300L	DIODE		
		D7305	B0ADCK000001	DIODE		
		D7306	B0BC027A0336	DIODE		
		D7307	B0BC027A0336	DIODE		
		D7308	B0BC027A0336	DIODE		
		D7309	B0JCME000093	DIODE		
		D7310	B0JCME000093	DIODE		
		D7311	B0BC027A0336	DIODE		
		D7403	B0JBSL000046	DIODE		
		D7404	DA2J10100L	DIODE		
		D7405	DA2J10100L	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D7407	B0JBSL000046	DIODE		
		D7411	DA2J10100L	DIODE		
		D7412	B0JBSG000068	DIODE		
		D7413	B0JBSG000068	DIODE		
		D7502	DB2J41100L	DIODE		
		D8716	B0ACGM000001	DIODE		
INTEGRATED CIRCUIT						
		IC4900	C1AB00003800	IC		
		IC4903	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5300	C0DBAYY01648	IC		
		IC5400	C0DBAYY01645	IC		
		IC5420	C0DBAYY01299	IC		
		IC5440	C0DBAYY01647	IC		
		IC5702	C0DBAYY01656	IC		
		IC6800	C1AB00004028	IC		
		IC7201	C0DBYY000058	IC		
		IC7301	C0DBAYY01329	IC		
		IC7401	C0DBZYY00614	IC		
		IC7503	C0DBAYY01599	IC		
		IC8000	MN2WS02351K	IC		
		IC8100	C0DBAYY01646	IC		
		IC8101	C0DBAYY01284	IC		
		IC8200	C3ABUY000042	IC		
		IC8201	C3ABUY000042	IC		
		IC8202	C3ABUY000042	IC		
		IC8203	C3ABUY000042	IC		
		IC8453	C0DBZYY00541	IC		
		IC8454	C0DBZYY00541	IC		
		IC8455	C0DBZYY00541	IC		
		IC8457	C0DBZYY00541	IC		
		IC8458	C1CB00003747	IC		
		IC8600	C1CB00003736	IC		
		IC8660	C0DBEYY00102	IC		
		IC8706	C0DBGYY00887	IC		
		IC8714	C0DBEYY00102	IC		
		IC8900	TVRT274AA	ROM VERSION IC (C3FBVY000038)		
		IC9100	TVRT298AC	ROM VERSION IC (C3FBLY000149)		
		IC9500	MN85063	IC		
		IC9501	C3ABTY000097	IC		
		IC9502	C3ABTY000097	IC		
		IC9503	C0DBAYY01646	IC		
		IC9504	C0DBAYY01644	IC		
COIL						
		L2300	J0JYC0000464	BEAD CORE		
		L4006	J0ZZB0000147	COIL		
		L4007	J0ZZB0000147	COIL		
		L4008	J0ZZB0000147	COIL		
		L4009	J0ZZB0000147	COIL		
		L4010	J0ZZB0000147	COIL		
		L4011	J0ZZB0000147	COIL		
		L4012	J0ZZB0000147	COIL		
		L4013	J0ZZB0000147	COIL		
		L4014	J0ZZB0000147	COIL		
		L4015	J0ZZB0000147	COIL		
		L4016	J0ZZB0000147	COIL		
		L4017	J0ZZB0000147	COIL		
		L4901	G1C100MA0533	COIL		
		L4902	G1C100MA0533	COIL		
		L4903	G1C100MA0533	COIL		
		L4904	G1C100MA0533	COIL		
		L4951	G1C220MA0533	INDUCTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L4952	G1C220MA0533	INDUCTOR		
		L5300	G1C220MA0445	INDUCTOR		
		L5400	G1C2R2ZA0311	INDUCTOR		
		L5420	G1C6R8MA0533	INDUCTOR		
		L5440	G1C3R3MA0449	INDUCTOR		
		L5700	G1C2R2MA0464	INDUCTOR		
		L5701	J0JYC0000464	BEAD CORE		
		L6704	J0JYC0000464	BEAD CORE		
		L6706	J0JYC0000464	BEAD CORE		
		L6800	J0JYC0000464	BEAD CORE		
		L6801	J0JYC0000464	BEAD CORE		
		L6802	J0JYC0000464	BEAD CORE		
		L7201	J0JKB0000034	EMI FILTER		
		L7202	J0JKB0000034	EMI FILTER		
		L7204	J0JKB0000034	EMI FILTER		
		L7207	J0JHC0000075	BEAD COIL		
		L7301	J0JKB0000034	EMI FILTER		
		L7502	G0C270MA0049	INDUCTOR		
		L8001	J0JCC0000287	COIL		
		L8002	D0GAR00J0005	CHIP RESISTOR		
		L8004	D0GBR00J0004	CHIP RESISTOR		
		L8005	D0GAR00J0005	CHIP RESISTOR		
		L8006	D0GAR00J0005	CHIP RESISTOR		
		L8007	D0GAR00J0005	CHIP RESISTOR		
		L8008	D0GAR00J0005	CHIP RESISTOR		
		L8009	J0JYC0000464	BEAD CORE		
		L8010	D0GAR00J0005	CHIP RESISTOR		
		L8011	D0GAR00J0005	CHIP RESISTOR		
		L8012	D0GAR00J0005	CHIP RESISTOR		
		L8013	D0GAR00J0005	CHIP RESISTOR		
		L8100	G1C1R0ZA0248	INDUCTOR		
		L8101	G1C2R2ZA0311	INDUCTOR		
		L8451	J0ZZB0000142	FILTER		
		L8453	J0ZZB0000142	FILTER		
		L8455	J0ZZB0000142	FILTER		
		L8459	J0ZZB0000142	FILTER		
		L8461	J0JYC0000464	BEAD CORE		
		L8462	J0JYC0000464	BEAD CORE		
		L8463	J0ZZB0000142	FILTER		
		L8464	J0JYC0000464	BEAD CORE		
		L8466	J0JYC0000464	BEAD CORE		
		L8467	J0JYC0000464	BEAD CORE		
		L8660	J0JBC0000115	BEAD CORE		
		L8662	J0JYC0000464	BEAD CORE		
		L8751	J0JYC0000464	BEAD CORE		
		L9501	J0JCC0000287	COIL		
		L9502	J0JYC0000464	BEAD CORE		
		L9503	J0JYC0000464	BEAD CORE		
		L9505	G1C1R0ZA0248	INDUCTOR		
		L9506	G1C3R3MA0464	INDUCTOR		
		L9507	J0JKC0000008	BEAD CORE		
		L9508	J0JKC0000008	BEAD CORE		
TRANSISTOR						
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q4700	B1ABCF000231	TRANSISTOR		
		Q4701	B1ABCF000231	TRANSISTOR		
		Q4750	B1ABCF000231	TRANSISTOR		
		Q4981	B1ABCE000015	TRANSISTOR		
		Q7201	B1CERR000096	TRANSISTOR		
		Q7202	B1ADCE000022	TRANSISTOR		
		Q7301	B1CFRR000016	TRANSISTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		Q7302	B1CFRR000016	TRANSISTOR		
		Q7303	B1ADCE000022	TRANSISTOR		
		Q7401	B1ABCF000231	TRANSISTOR		
		Q7402	B1CHRE000015	TRANSISTOR		
		Q7403	B1CHRE000015	TRANSISTOR		
		Q7404	B1CHRE000015	TRANSISTOR		
		Q7407	B1CBGD000001	TRANSISTOR		
		Q7501	B1ABGE000015	TRANSISTOR		
		Q8100	B1CFRD000100	TRANSISTOR		
		Q8101	B1CFRD000100	TRANSISTOR		
		Q9500	B1CFRD000100	TRANSISTOR		
		Q9501	B1CFRD000100	TRANSISTOR		
RESISTORS						
		R0903	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0904	D0GA473JA039	M 47KOHM J. 1/10W		
		R0905	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0906	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0907	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0910	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0911	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0912	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0913	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0914	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0935	D0GA473JA039	M 47KOHM J. 1/10W		
		R0938	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0940	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0946	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0948	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0951	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0953	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0954	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0955	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0956	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0957	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0960	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0961	D0GA101JA039	M 100OHM ,J, 1/10W		
		R0962	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0963	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R2003	D0GAR00J0005	M 0 OHM, 1/16W		
		R2004	D0GA103JA039	M 10K OHM J 1/10W		
		R2007	D0GA680JA023	M 68 OHM, J,1/16W		
		R2008	D0GA103JA039	M 10K OHM J 1/10W		
		R2010	D1BA7151A023	M 7.15KOHM, F 1/16 W		
		R2011	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R2013	D0GAR00J0005	M 0 OHM, 1/16W		
		R2014	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R2016	D0GAR00J0005	M 0 OHM, 1/16W		
		R2034	D0GAR00J0005	M 0 OHM, 1/16W		
		R2051	D0GAR00J0005	M 0 OHM, 1/16W		
		R2056	D0GAR00J0005	M 0 OHM, 1/16W		
		R2058	D0GA473JA039	M 47KOHM J. 1/10W		
		R2059	D0GA103JA039	M 10K OHM J 1/10W		
		R2060	D0GA473JA039	M 47KOHM J. 1/10W		
		R2061	D0GA223JA023	M 22K OHM J 1/16W		
		R2062	D0GAR00J0005	M 0 OHM, 1/16W		
		R2070	D0GBR00J0004	M 0 OHM J 1/10W		
		R2071	D0GBR00J0004	M 0 OHM J 1/10W		
		R2802	D0GAR00J0005	M 0 OHM, 1/16W		
		R2808	D0GAR00J0005	M 0 OHM, 1/16W		
		R2820	D0GA470JA023	M 47 OHM, J,1/16W		
		R2821	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R2822	D0GA154JA023	M 150KOHM J 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R2823	D1BA1821A023	M 1.82K OHM ,F, 1/16W		
		R2824	D1BA6800A023	M 680 OHM ,F, 1/16W		
		R2852	D1BD1911A177	M 1.91K OHM ,F, 1/16W		
		R2853	D1BD3091A177	M 3.09K OHM ,F, 1/16W		
		R2854	D1BD6041A076	M 6.04K OHM ,F, 1/16W		
		R2855	D1BD1692A177	M 16.69K OHM,F.1/16 W		
		R3012	D1BD75R00003	M 75OHM ,J, 1/16W		
		R3013	D1BD75R00003	M 75OHM ,J, 1/16W		
		R3014	D1BD75R00003	M 75OHM ,J, 1/16W		
		R3015	D1HY6804A012	NETWORK RESISTER		
		R3038	D0GAR00J0005	M 0 OHM, 1/16W		
		R3053	D0GA333JA023	M 33KOHM,J,1/16W		
		R3054	D0GA333JA023	M 33KOHM,J,1/16W		
		R3056	D0GAR00J0005	M 0 OHM, 1/16W		
		R3058	D0GA330JA023	M 33 OHM, J,1/16W		
		R3113	D0GAR00J0005	M 0 OHM, 1/16W		
		R3114	D0GAR00J0005	M 0 OHM, 1/16W		
		R3150	D0GAR00J0005	M 0 OHM, 1/16W		
		R3199	D0GAR00J0005	M 0 OHM, 1/16W		
		R3201	D0GAR00J0005	M 0 OHM, 1/16W		
		R3205	D0GAR00J0005	M 0 OHM, 1/16W		
		R3223	D1BA1403A023	M 140 KOHM,F.1/16 W		
		R3224	D1BA1403A023	M 140 KOHM,F.1/16 W		
		R3230	D0GA473JA039	M 47KOHM J. 1/10W		
		R3871	D0GAR00J0005	M 0 OHM, 1/16W		
		R4025	D1H81014A042	M 100OHM ,J, 1/10W		
		R4026	D1H81014A042	M 100OHM ,J, 1/10W		
		R4044	D0GA103JA039	M 10K OHM J 1/10W		
		R4700	D0GA103JA039	M 10K OHM J 1/10W		
		R4701	D0GA103JA039	M 10K OHM J 1/10W		
		R4702	D0GA103JA039	M 10K OHM J 1/10W		
		R4703	D0GA103JA039	M 10K OHM J 1/10W		
		R4704	D0GA473JA039	M 47KOHM J. 1/10W		
		R4705	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4706	D0GA220JA023	M22 OHM, J.1/16 W		
		R4707	D0GA680JA023	M 68 OHM, J,1/16W		
		R4708	D0GA680JA023	M 68 OHM, J,1/16W		
		R4709	D0GA680JA023	M 68 OHM, J,1/16W		
		R4710	D0GA680JA023	M 68 OHM, J,1/16W		
		R4711	D0GA103JA039	M 10K OHM J 1/10W		
		R4712	D0GA103JA039	M 10K OHM J 1/10W		
		R4713	D0GA103JA039	M 10K OHM J 1/10W		
		R4714	D0GA473JA039	M 47KOHM J. 1/10W		
		R4715	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4722	D1BA1600A023	M 160 OHM,F.1/16 W		
		R4723	D1BA82R0A023	M 82OHM ,J, 1/16W		
		R4725	D0GA680JA023	M 68 OHM, J,1/16W		
		R4726	D0GA680JA023	M 68 OHM, J,1/16W		
		R4730	D0GA473JA039	M 47KOHM J. 1/10W		
		R4731	D0GA473JA039	M 47KOHM J. 1/10W		
		R4732	D0GA473JA039	M 47KOHM J. 1/10W		
		R4733	D0GA473JA039	M 47KOHM J. 1/10W		
		R4734	D0GA473JA039	M 47KOHM J. 1/10W		
		R4735	D0GA473JA039	M 47KOHM J. 1/10W		
		R4751	D0GA103JA039	M 10K OHM J 1/10W		
		R4752	D0GA103JA039	M 10K OHM J 1/10W		
		R4753	D0GA103JA039	M 10K OHM J 1/10W		
		R4754	D0GA473JA039	M 47KOHM J. 1/10W		
		R4755	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4799	D0GA273JA023	M 27K OHM J ,1/16W		
		R4900	D0GA103JA039	M 10K OHM J 1/10W		
		R4901	D0GFR00J0005	M 0 OHM,J,1/3W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4902	D1H86804A042	NETWORK RESISTER		
		R4903	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4904	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4910	D0GA473JA039	M 47KOHM J. 1/10W		
		R4930	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R4960	D0GA680JA023	M 68 OHM, J,1/16W		
		R4961	D0GA680JA023	M 68 OHM, J,1/16W		
		R4962	D0GA680JA023	M 68 OHM, J,1/16W		
		R4963	D0GA680JA023	M 68 OHM, J,1/16W		
		R4981	D0GA103JA039	M 10K OHM J 1/10W		
		R4982	D0GA473JA039	M 47KOHM J. 1/10W		
		R5002	D0GA683JA023	M 68KOHM, J,1/16W		
		R5003	D0GA103JA039	M 10K OHM J 1/10W		
		R5006	D0GA223JA023	M 22K OHM J 1/16W		
		R5007	D0GA223JA023	M 22K OHM J 1/16W		
		R5009	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R5012	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5030	D0GA103JA039	M 10K OHM J 1/10W		
		R5100	D0GA101JA039	M 100OHM ,J, 1/10W		
		R5101	D0GA473JA039	M 47KOHM J. 1/10W		
		R5102	D0GA473JA039	M 47KOHM J. 1/10W		
		R5104	D0GA103JA039	M 10K OHM J 1/10W		
		R5152	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R5171	D0GA103JA039	M 10K OHM J 1/10W		
		R5172	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R5173	D0GAR00J0005	M 0 OHM, 1/16W		
		R5175	D0GA680JA023	M 68 OHM, J,1/16W		
		R5181	D0GA103JA039	M 10K OHM J 1/10W		
		R5312	D0GA220JA023	M22 OHM, J.1/16 W		
		R5315	D1BA1402A023	M 14KOHM,F. 1/16 W		
		R5316	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R5318	D1BA3902A023	M 39KOHM ,F, 1/16W		
		R5400	D0GA220JA023	M22 OHM, J.1/16 W		
		R5402	D0GB122ZA038	M 1.2 KOHM 1/10W		
		R5403	D1BB4021A193	M 4.02KOHM ,F, 1/16W		
		R5420	D0GA220JA023	M22 OHM, J.1/16 W		
		R5421	D1BA3302A023	M 33KOHM,F. 1/16 W		
		R5422	D0GB911ZA037	M 910 OHM,1/10W		
		R5423	D1BB4871A106	M 4.87 KOHM,F.1/10 W		
		R5442	D1BB1241A196	M 1.24KOHM ,F, 1/16W		
		R5443	D1BB6801A195	M 6.8KOHM ,F, 1/16W		
		R5447	D1BA1502A023	M 15K OHM J 1/10W		
		R5705	D0GBR00J0004	M 0 OHM J 1/10W		
		R5713	D0GA220JA023	M22 OHM, J.1/16 W		
		R5715	D1BA3242A023	#N/A		
		R5716	D1BA1502A023	M 15K OHM J 1/10W		
		R5717	D0GA123JA023	M 12K OHM J 1/16W		
		R5736	D0GA103JA039	M 10K OHM J 1/10W		
		R6717	D0GBR00J0004	M 0 OHM J 1/10W		
		R6722	D0GAR00J0005	M 0 OHM, 1/16W		
		R6723	D0GAR00J0005	M 0 OHM, 1/16W		
		R6724	D0GAR00J0005	M 0 OHM, 1/16W		
		R6726	D0GAR00J0005	M 0 OHM, 1/16W		
		R6728	D0GA681JA023	M680 OHM, J,1/16W		
		R6729	D0GA681JA023	M680 OHM, J,1/16W		
		R6730	D0GAR00J0005	M 0 OHM, 1/16W		
		R6731	D0GAR00J0005	M 0 OHM, 1/16W		
		R6734	D0GA103JA039	M 10K OHM J 1/10W		
		R6804	D0GA681JA023	M680 OHM, J,1/16W		
		R6805	D0GA681JA023	M680 OHM, J,1/16W		
		R6810	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6812	D0GA680JA023	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R6813	D0GA680JA023	M 68 OHM, J,1/16W		
		R6818	D0GA680JA023	M 68 OHM, J,1/16W		
		R6819	D0GAR00J0005	M 0 OHM, 1/16W		
		R6820	D0GAR00J0005	M 0 OHM, 1/16W		
		R6821	D0GAR00J0005	M 0 OHM, 1/16W		
		R6840	D0GA471JA023	M 470OHM, J,1/16W		
		R6846	D0GA680JA023	M 68 OHM, J,1/16W		
		R6847	D0GA680JA023	M 68 OHM, J,1/16W		
		R6848	D0GA680JA023	M 68 OHM, J,1/16W		
		R6849	D0GA680JA023	M 68 OHM, J,1/16W		
		R6850	D0GA680JA023	M 68 OHM, J,1/16W		
		R6861	D0GA680JA023	M 68 OHM, J,1/16W		
		R6862	D0GA680JA023	M 68 OHM, J,1/16W		
		R6863	D0GA680JA023	M 68 OHM, J,1/16W		
		R6880	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6881	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6882	D0GBR00J0004	M 0 OHM J 1/10W		
		R6884	D0GA103JA039	M 10K OHM J 1/10W		
	⚠	R7101	D0GF105JA048	M 1M OHM. 1/4W		
	⚠	R7102	D0GF105JA048	M 1M OHM. 1/4W		
	⚠	R7103	D0GF105JA048	M 1M OHM. 1/4W		
		R7201	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7202	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7203	D0GB513JA065	M 51KOHM ,J, 1/10W		
		R7204	D0GF101JA047	M 100 OHM,J,1/3W		
		R7205	D0GD470JA052	M 47 OHM,J,1/8W		
		R7206	D0GD47JA059	M 4.7 OHM,J,1/4W		
		R7207	D0GB473JA065	M 47KOHM J. 1/10W		
		R7209	D0AF2R2JA112	C 2.2 OHM, J,1/2W		
		R7211	D0GD104JA052	M 100KOHM,J,1/8W		
		R7212	D0GD683JA052	M 68KOHM,J,1/8W		
		R7219	D0GD513JA052	M 51KOHM,J,1/8W		
		R7220	D0GD223JA052	M 22KOHM,J,1/8W		
		R7224	D1BD8203A177	M 820KOHM ,J, 1/16W		
		R7225	D1BF1504A073	M 1.5MOHM, J,1/16W		
		R7226	D1BF1504A073	M 1.5MOHM, J,1/16W		
		R7227	D1BF1504A073	M 1.5MOHM, J,1/16W		
		R7228	D1BF1504A073	M 1.5MOHM, J,1/16W		
		R7229	D1BD2003A076	M 200KOHM ,F, 1/16W		
		R7230	D1BD4422A177	M 44.2KOHM ,F, 1/16W		
		R7231	D1BD4303A177	M 430KOHM ,F, 1/16W		
		R7232	D1BD3603A177	M 360KOHM ,F, 1/16W		
		R7234	D1BD8203A177	M 820KOHM ,J, 1/16W		
		R7240	D0GF225JA048	M 2.2MOHM ,J, 1/16W		
		R7241	D0GF225JA048	M 2.2MOHM ,J, 1/16W		
		R7242	D0GF225JA048	M 2.2MOHM ,J, 1/16W		
		R7243	D0GF225JA048	M 2.2MOHM ,J, 1/16W		
		R7244	D0GD124JA052	M 120KOHM,J,1/8W		
		R7302	D0GD101JA059	M 100 OHM,J,1/4W		
		R7303	D0GD101JA059	M 100 OHM,J,1/4W		
		R7304	D0AF2R2JA112	C 2.2 OHM, J,1/2W		
		R7305	D0AF161JA112	M 160 OHM,F.1/16 W		
		R7306	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7307	D0GD561JA052	M 560 OHM,J,1/8W		
		R7308	D0GD561JA052	M 560 OHM,J,1/8W		
		R7312	D0AF153JA112	M 150 OHM,F.1/16 W		
		R7314	D0GD104JA052	M 100KOHM,J,1/8W		
		R7315	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7317	D0GB223JA065	M 22KOHM,J,1/10W		
		R7318	D0GB473JA065	M 47KOHM J. 1/10W		
		R7319	D0GD473JA052	M 47KOHM,J,1/8W		
		R7320	D0GB333JA065	M 33KOHM,J,1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7321	D0GD100JA059	M 10 OHM,J,1/4W		
		R7322	D0GD100JA059	M 10 OHM,J,1/4W		
		R7323	D0GD223JA052	M 22KOHM,J,1/8W		
		R7324	D0GD223JA052	M 22KOHM,J,1/8W		
		R7325	D0B1106JA033	M 10MOHM J 1W		
		R7401	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7402	D0GB103JA065	M 10K OHM J 1/10W		
		R7403	D0GB102JA065	M 1KOHM,J,1/10W		
		R7404	D0GB104JA065	M 100KOHM J 1/10W		
		R7405	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7406	D1BD3301A180	M 3.3KOHM, J,1/16W		
		R7407	D0GD103JA052	M 10KOHM,J,1/8W		
		R7408	D1BD3902A180	M 39KOHM ,F, 1/16W		
		R7409	D0GB224JA065	M 220KOHM,J,1/10W		
		R7410	D0GB153JA065	M 15K OHM J 1/10W		
		R7411	D0GB334JA065	M 330K OHM, J,1/16W		
		R7412	D0GB153JA065	M 15K OHM J 1/10W		
		R7415	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7416	D0GD103JA052	M 10KOHM,J,1/8W		
		R7417	D0GD103JA052	M 10KOHM,J,1/8W		
		R7420	D0GB473JA065	M 47KOHM J. 1/10W		
		R7421	D0GD124JA052	M 120KOHM,J,1/8W		
		R7425	ERX1SJ1R0V	M 1OHM ,J, 1/16W		
		R7504	D0GD224JA052	M 220KOHM,J,1/8W		
		R7505	D0GD473JA052	M 47KOHM,J,1/8W		
		R7506	D1BD1203A076	M 120KOHM,J,1/8W		
		R7507	D1BD3652A177	M 36.5KOHM ,F, 1/16W		
		R7508	D0GD334JA052	M 330KOHM,J,1/8W		
		R7509	D0GD334JA052	M 330KOHM,J,1/8W		
		R8005	D0GA1R1JA023	M 1.1OHM, J,1/16W		
		R8010	D0GA331JA023	M 330 OHM, J,1/16W		
		R8100	D0GAR00J0005	M 0 OHM, 1/16W		
		R8104	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R8105	D1BB2201A195	M 22KHM ,F, 1/10W		
		R8106	D1BB2001A197	M 2 KOHM,F.1/10 W		
		R8200	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8203	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8204	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8205	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8206	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8207	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8208	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8217	D0GA221JA023	M220 OHM, J.1/16 W		
		R8218	D0GA221JA023	M220 OHM, J.1/16 W		
		R8219	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8220	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8230	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8231	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8232	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8233	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8234	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8235	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8236	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8237	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8238	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8239	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8240	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8241	D0GA221JA023	M220 OHM, J.1/16 W		
		R8242	D0GA221JA023	M220 OHM, J.1/16 W		
		R8243	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8244	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8250	D1BA2700A023	M 270 OHM,F.1/16 W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8251	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8252	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8253	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8258	D0GA220JA023	M22 OHM, J.1/16 W		
		R8263	D0GA220JA023	M22 OHM, J.1/16 W		
		R8300	D0GA101JA039	M 100OHM ,J, 1/10W		
		R8301	D0GA360JA023	M 36 OHM, J,1/16W		
		R8302	D0GA360JA023	M 36 OHM, J,1/16W		
		R8303	D1BA6201A023	M 6.2 KOHM,F.1/16 W		
		R8304	D1BA6201A023	M 6.2 KOHM,F.1/16 W		
		R8305	D1HY2204A012	NETWORK RESISTER		
		R8306	D1HY2204A012	NETWORK RESISTER		
		R8307	D1HY2204A012	NETWORK RESISTER		
		R8308	D1HY2204A012	NETWORK RESISTER		
		R8309	D1HY2204A012	NETWORK RESISTER		
		R8310	D1HY2204A012	NETWORK RESISTER		
		R8311	D0GA220JA023	M22 OHM, J.1/16 W		
		R8313	D1HY2204A012	NETWORK RESISTER		
		R8314	D1HY2204A012	NETWORK RESISTER		
		R8315	D1HY2204A012	NETWORK RESISTER		
		R8316	D1HY2204A012	NETWORK RESISTER		
		R8317	D1HY2204A012	NETWORK RESISTER		
		R8318	D1HY2204A012	NETWORK RESISTER		
		R8319	D0GA220JA023	M22 OHM, J.1/16 W		
		R8418	D0GA103JA039	M 10K OHM J 1/10W		
		R8442	D0GA103JA039	M 10K OHM J 1/10W		
		R8452	D0GA103JA039	M 10K OHM J 1/10W		
		R8493	D0GA103JA039	M 10K OHM J 1/10W		
		R8498	D1H8R0040016	NETWORK RESISTER		
		R8499	D1H8R0040016	NETWORK RESISTER		
		R8534	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8535	D0GA103JA039	M 10K OHM J 1/10W		
		R8536	D0GA103JA039	M 10K OHM J 1/10W		
		R8537	D0GA103JA039	M 10K OHM J 1/10W		
		R8539	D1BA1822A023	M 18.2KOHM,F.1/16 W		
		R8541	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8544	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8565	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8566	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8570	D0GA103JA039	M 10K OHM J 1/10W		
		R8571	D0GA103JA039	M 10K OHM J 1/10W		
		R8576	D0GAR00J0005	M 0 OHM, 1/16W		
		R8577	D0GA473JA039	M 47KOHM J. 1/10W		
		R8578	D0GA103JA039	M 10K OHM J 1/10W		
		R8579	D0GA104JA039	M 100KOHM J 1/10W		
		R8584	D0GA104JA039	M 100KOHM J 1/10W		
		R8588	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8592	D1BA6200A023	M 620OHM ,F, 1/16W		
		R8593	D1BA30R0A023	M 30OHM ,F, 1/16W		
		R8594	D0GA103JA039	M 10K OHM J 1/10W		
		R8597	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8598	D0GA104JA039	M 100KOHM J 1/10W		
		R8600	D0GA103JA039	M 10K OHM J 1/10W		
		R8601	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8602	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8603	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8604	D1BA75R0A023	M 75.0 OHM,F.1/16 W		
		R8608	D0GA680JA023	M 68 OHM, J,1/16W		
		R8611	D1BA2491A023	M 2.49KOHM,F,1/16W		
		R8612	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8613	D0GA680JA023	M 68 OHM, J,1/16W		
		R8614	D0GA680JA023	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8616	D0GA680JA023	M 68 OHM, J,1/16W		
		R8617	D0GA103JA039	M 10K OHM J 1/10W		
		R8620	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8622	D0GA680JA023	M 68 OHM, J,1/16W		
		R8623	D0GA680JA023	M 68 OHM, J,1/16W		
		R8624	D0GA680JA023	M 68 OHM, J,1/16W		
		R8625	D0GA152JA023	M 1.5KOHM, J,1/16W		
		R8626	D0GA680JA023	M 68 OHM, J,1/16W		
		R8627	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8629	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8630	D0GA680JA023	M 68 OHM, J,1/16W		
		R8631	D0GA680JA023	M 68 OHM, J,1/16W		
		R8633	D0GAR00J0005	M 0 OHM, 1/16W		
		R8634	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8635	D0GA680JA023	M 68 OHM, J,1/16W		
		R8636	D0GA680JA023	M 68 OHM, J,1/16W		
		R8637	D0GBR00J0004	M 0 OHM J 1/10W		
		R8646	D0GA473JA039	M 47KOHM J. 1/10W		
		R8652	D0GA680JA023	M 68 OHM, J,1/16W		
		R8653	D0GAR00J0005	M 0 OHM, 1/16W		
		R8660	D0GA560JA023	M 56 OHM, J,1/16W		
		R8661	D0GA560JA023	M 56 OHM, J,1/16W		
		R8662	D0GA560JA023	M 56 OHM, J,1/16W		
		R8663	D0GA560JA023	M 56 OHM, J,1/16W		
		R8664	D0GA560JA023	M 56 OHM, J,1/16W		
		R8665	D0GA101JA039	M 100OHM ,J, 1/10W		
		R8666	D1HY1038A012	NETWORK RESISTER		
		R8667	D1H85604A042	NETWORK RESISTER		
		R8668	D1H85604A042	NETWORK RESISTER		
		R8669	D0GA560JA023	M 56 OHM, J,1/16W		
		R8671	D1BB1200A106	M 120OHM,F 1/10W		
		R8675	D1BB2000A106	M 200OHM J, 1/16W		
		R8680	D0GAR00J0005	M 0 OHM, 1/16W		
		R8797	D1BA1200A023	M 120 OHM,F.1/16 W		
		R8798	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R8800	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8803	D0GA103JA039	M 10K OHM J 1/10W		
		R8811	D0GA473JA039	M 47KOHM J. 1/10W		
		R8812	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R8816	D0GA103JA039	M 10K OHM J 1/10W		
		R8817	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R8819	D0GA103JA039	M 10K OHM J 1/10W		
		R8820	D0GA103JA039	M 10K OHM J 1/10W		
		R8821	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R8822	D0GA473JA039	M 47KOHM J. 1/10W		
		R8823	D0GA473JA039	M 47KOHM J. 1/10W		
		R8824	D0GA473JA039	M 47KOHM J. 1/10W		
		R8825	D0GA473JA039	M 47KOHM J. 1/10W		
		R8826	D0GA473JA039	M 47KOHM J. 1/10W		
		R8827	D0GA473JA039	M 47KOHM J. 1/10W		
		R8831	D0GA473JA039	M 47KOHM J. 1/10W		
		R8832	D0GA473JA039	M 47KOHM J. 1/10W		
		R8833	D0GA473JA039	M 47KOHM J. 1/10W		
		R8834	D0GA103JA039	M 10K OHM J 1/10W		
		R8837	D0GA473JA039	M 47KOHM J. 1/10W		
		R8838	D0GA473JA039	M 47KOHM J. 1/10W		
		R8839	D0GA473JA039	M 47KOHM J. 1/10W		
		R8840	D0GA473JA039	M 47KOHM J. 1/10W		
		R8841	D0GA473JA039	M 47KOHM J. 1/10W		
		R8842	D0GA473JA039	M 47KOHM J. 1/10W		
		R8843	D0GA473JA039	M 47KOHM J. 1/10W		
		R8844	D0GA103JA039	M 10K OHM J 1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8845	D0GA473JA039	M 47KOHM J. 1/10W		
		R8846	D0GA103JA039	M 10K OHM J 1/10W		
		R8847	D0GA103JA039	M 10K OHM J 1/10W		
		R8849	D0GA473JA039	M 47KOHM J. 1/10W		
		R8851	D0GA473JA039	M 47KOHM J. 1/10W		
		R8852	D0GA473JA039	M 47KOHM J. 1/10W		
		R8853	D0GA182JA023	M 1.8KOHM, J,0.063W		
		R8854	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R8858	D0GA473JA039	M 47KOHM J. 1/10W		
		R8862	D0GA473JA039	M 47KOHM J. 1/10W		
		R8863	D0GA473JA039	M 47KOHM J. 1/10W		
		R8864	D0GA473JA039	M 47KOHM J. 1/10W		
		R8865	D0GA473JA039	M 47KOHM J. 1/10W		
		R8866	D0GA473JA039	M 47KOHM J. 1/10W		
		R8867	D0GA473JA039	M 47KOHM J. 1/10W		
		R8868	D0GA473JA039	M 47KOHM J. 1/10W		
		R8869	D0GA473JA039	M 47KOHM J. 1/10W		
		R8870	D0GA473JA039	M 47KOHM J. 1/10W		
		R8874	D0GA103JA039	M 10K OHM J 1/10W		
		R8875	D0GA103JA039	M 10K OHM J 1/10W		
		R8876	D0GA473JA039	M 47KOHM J. 1/10W		
		R8878	D0GA473JA039	M 47KOHM J. 1/10W		
		R8902	D0GA473JA039	M 47KOHM J. 1/10W		
		R8908	D1H82204A042	NETWORK RESISTER		
		R8909	D0GA222JA023	M 2.2KOHM ,J, 1/16W		
		R8910	D0GA103JA039	M 10K OHM J 1/10W		
		R8911	EXB2HV121JV	M 120OHM,F 1/10W		
		R9005	D0GA153JA023	M 15K OHM J 1/10W		
		R9084	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R9086	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R9105	D0GA473JA039	M 47KOHM J. 1/10W		
		R9108	D0GA103JA039	M 10K OHM J 1/10W		
		R9109	D0GA103JA039	M 10K OHM J 1/10W		
		R9111	D0GA560JA023	M 56OHM ,J, 1/16W		
		R9112	D0GA560JA023	M 56OHM ,J, 1/16W		
		R9113	D0GA560JA023	M 56OHM ,J, 1/16W		
		R9209	D0GA473JA039	M 47KOHM J. 1/10W		
		R9212	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R9213	D0GA102JA039	M 1KOHM ,J, 1/16W		
		R9216	D0GA473JA039	M 47KOHM J. 1/10W		
		R9217	D0GA473JA039	M 47KOHM J. 1/10W		
		R9219	D0GA473JA039	M 47KOHM J. 1/10W		
		R9220	D0GA473JA039	M 47KOHM J. 1/10W		
		R9234	D0GA473JA039	M 47KOHM J. 1/10W		
		R9235	D0GA103JA039	M 10K OHM J 1/10W		
		R9242	D0GA473JA039	M 47KOHM J. 1/10W		
		R9245	D0GA473JA039	M 47KOHM J. 1/10W		
		R9501	D0GA105JA023	M 1MOHM ,J, 1/10W		
		R9503	D1BB6800A196	M 680OHM ,F, 1/10W		
		R9504	D1BB1301A195	M 1.3KOHM ,F, 1/16W		
		R9505	D1BB1202A195	M 12KOHM ,F, 1/16W		
		R9506	D1BB1002A195	M 10K OHM J 1/10W		
		R9508	D1BA5602A023	M 56KOHM ,J, 1/16W		
		R9509	D1HY2204A012	M 22OHM ,F, 1/10W		
		R9510	D1HY2204A012	M 22OHM ,F, 1/10W		
		R9511	D1HY2204A012	M 22OHM ,F, 1/10W		
		R9512	D1HY2204A012	M 22OHM ,F, 1/10W		
		R9513	D1HY2204A012	M 22OHM ,F, 1/10W		
		R9514	D1HY3304A012	M 33 OHM, J,1/16W		
		R9515	D0GA220JA023	M 22OHM ,F, 1/10W		
		R9516	D0GA220JA023	M 22OHM ,F, 1/10W		
		R9521	D1BA2400A023	M 240 OHM,F.1/16 W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R9524	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9528	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9529	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9530	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9531	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9532	D1BA2700A023	M 270 OHM,F.1/16 W		
		R9533	D0GA221JA023	M 220OHM ,J, 1/16W		
		R9534	D0GA221JA023	M 220OHM ,J, 1/16W		
		R9535	D1BA2400A023	M 240 OHM,F.1/16 W		
		R9536	D1BA2400A023	M 240 OHM,F.1/16 W		
		R9540	D0GAR00J0005	M 0 OHM, 1/16W		
		R9546	D1BA4701A023	M 4.7KOHM, J,1/16W		
		R9570	D0GBR00J0004	M 0 OHM, 1/16W		
TRANSFORMER						
	⚠	T7202	G4DYA0000366	TRANSFORMER		
	⚠	T7302	G4DYA0000449	TRANSFORMER		
	⚠	T8600	G5BYC0000040	TRANSFORMER		
OTHERS						
		A02	K1KY14BA0484	CONNECTOR		
		A10	K1KY11BA0483	CONNECTOR		
		A12	K1KY06BA0387	CONNECTOR		
		A15	K1MY41BA0526	CONNECTOR		
		A16	K1MY51BA0526	CONNECTOR		
		A20	K1FY105E0017	CONNECTOR		
		CF7101	D4CAY2R20002	TERMISTOR		
		CN0100	K1KA14A00248	CONNECTOR		
		D2802	B3AGB0000060	LED		
	⚠	F7101	K5E502YYA162	FUSE		
		GK4	K1KY03BA0402	CONNECTOR		
		JA1	D0GDR00J0004	CHIP RESISTOR		
		JA10	D0GDR00J0004	CHIP RESISTOR		
		JA11	D0GDR00J0004	CHIP RESISTOR		
		JA12	D0GDR00J0004	CHIP RESISTOR		
		JA13	D0GDR00J0004	CHIP RESISTOR		
		JA2	D0GDR00J0004	CHIP RESISTOR		
		JA4	D0GDR00J0004	CHIP RESISTOR		
		JA5	D0GDR00J0004	CHIP RESISTOR		
		JA8	D0GDR00J0004	CHIP RESISTOR		
		JA9	D0GDR00J0004	CHIP RESISTOR		
		JK3101	K1U510E00001	TERMINAL		
		JK4701	K1FY119E0070	TERMINAL		
		JK4702	K1FY119E0070	TERMINAL		
		JK4703	K1FY119E0070	TERMINAL		
	⚠	JK7101	K2AAYB000010	AC INLET		
		JK8600	K1NA12E00016	CONNECTOR		
		JK8601	K1FY104B0093	USB TERMINAL		
		JK8602	K1FY104B0093	USB TERMINAL		
		JK8603A	K1FY104B0093	USB TERMINAL		
		JK8650A	K2LC1YYE0004	TERMINAL		
		JS0048	D0GAR00J0005	CHIP RESISTOR		
		JS0055	D0GAR00J0005	CHIP RESISTOR		
		JS7406	D0GDR00J0004	CHIP RESISTOR		
		K10	K1KY07AA1311	CONNECTOR		
	⚠	LF7103	G0B183G00006	LINE FILTER		
	⚠	LF7104	G0B183G00006	LINE FILTER		
	⚠	LF7105	G0B350HA0036	LINE FILTER		
		P2	K1KY14BA0386	CONNECTOR		
		P4	K1KY12BA0400	CONNECTOR		
	⚠	PA2002	K5H5022A0031	FUSE		
	⚠	PA4900	K5H1022A0031	FUSE		
	⚠	PA7403	K5G103AA0009	FUSE		
		PA7406	ERBRE5R00V	FUSE RESISTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		PC7301	B3PAA0000674	PHOTO COUPLER		
		PC7302	B3PAA0000674	PHOTO COUPLER		
		PC7303	B3PAA0000674	PHOTO COUPLER		
		RM2800	B3RBB0000018	PHOTO DETECTOR		
		SN2800	B3JB00000208	IC		
		SW2851	EVQ11G05R	SWITCH		
		SW2852	EVQ11G05R	SWITCH		
		SW2853	EVQ11G05R	SWITCH		
		SW2854	EVQ11G05R	SWITCH		
		SW2855	EVQ11G05R	SWITCH		
		SW2857	EVQ11G05R	SWITCH		
	⚠	TU6705	J3ACAAC00007	TUNER		
		VJ9502	J0JYC0000464	BEAD CORE		
		X6800	H0J410500001	CRYSTAL		
		X8300	H0J250500106	CRYSTAL RESONATOR		
		X8450	H0J120500097	CRYSTAL RESONATOR		
		X9500	H0J200500091	CRYSTAL RESONATOR		
		ZA0050	K4AD01D00008	TERMINAL		
		ZA0051	K4AD01D00008	TERMINAL		
		ZA0052	K4AD01D00008	TERMINAL		
		ZA0053	K4AD01D00008	TERMINAL		
		ZA0054	K4AD01D00008	TERMINAL		
		ZA0055	K4AD01D00008	TERMINAL		
		ZA0056	K4AD01D00008	TERMINAL		
		ZA0057	K4AD01D00008	TERMINAL		
		ZA7101	K4AD01A00004	RUG TERMINAL		
		ZA7102	K4AD01A00004	RUG TERMINAL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	EAK1H06A	SPEAKER SQ		
	⚠	2	K1HY05YY0054	WIFI CABLE		
		3	K2CQ2YY00107	AC CORD		
		4	L0EYAA000024	WOOFER THIN BOX FE		
	⚠	5	L5EDDY00469	LCD PANEL		
		6	N2QAYB000858	REMOTE CONTROL		
			N2QBYB000027	TRANSMITTER		
		7	N5HBZ0000101	WI FI DONGLE		
			N5HZZ0000130	BT DONGLE		
		8	N5ZZ00000284	3D GLASSES		
		9	TBL5ZX05631	PACKED PEDESTAL ASSY		
		10	TBL5ZX05671	STAND COVER		
		11	TBL5ZX05801	STD ACC ASSY		
	⚠		TBM4GD1781	MODEL NAME PLATE		
		12	TBX5ZA02101	KEY BUTTON BRACKET		
			TKKL5521	M6 CAP		
		13	TKP5ZA28103	SIDE AV BRAC		
			TKP5ZA35801	BOTTOM AV BRACKET		
		14	TPD4GA04491	FRONT CUSHION		
		15	TPD4GA04541	TOP CUSHION		
		16	TPD4GA04551	BOTTOM CUSHION		
		17	TPE4GH073	SET COVER		
		18	TQZ4GB661	FAN BAG ASSY		
	⚠		TSCKF0170033	LVDS CABLE		
	⚠		TSCKF0170034	LVDS CABLE		
			TTP5ZA0009	LED PANEL ASSY		
		19	TTU4GA1025	BACK COVER ASSY		
		20	TXFKP5Z0063	REAR PANEL T ASSY		
		21	TXFKP5Z0064	REAR PANEL B ASSY		
		22	TXFKP5Z0065	REAR PANEL L ASSY		
		23	TXFKP5Z0066	REAR PANEL R ASSY		
		24	TXFPC01QHUS	PACKING CASE ASSY		
		25	XSS5+15FNK	SCREW		
			XYN4+F10FNK	STAND BRAC SCREW		
Electrical Replacement Part List						
	⚠	RTL	TXN/K1XYUE	K PRINT		
	⚠	RTL	TXN/P1QWUK	P PRINT		
	⚠	RTL	TXNGK1YDUE	GK PRINT		
	⚠	RTL	TZT/A1QWUK	A PRINT ASSY		