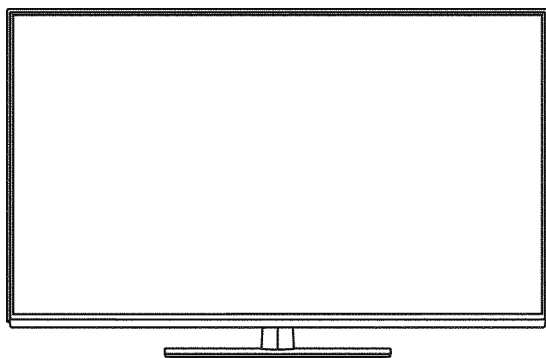


Service Manual

LED TV



Model No. TH-L50BL6M

Chassis: LA41

Destination: MIDDLE EAST

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.

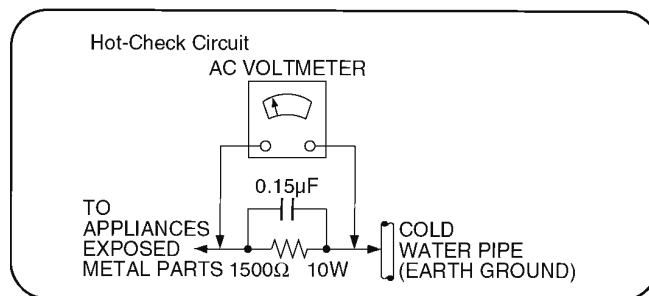


Figure 1

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).

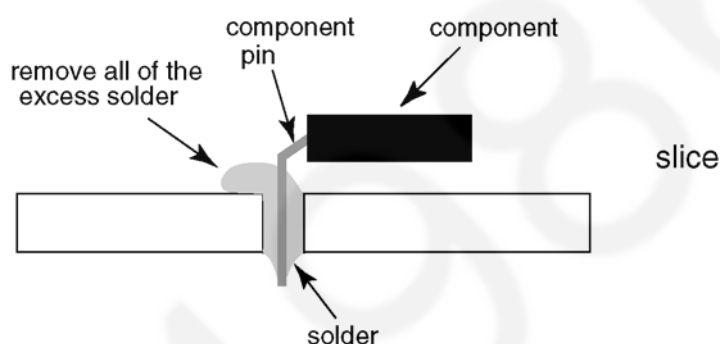
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

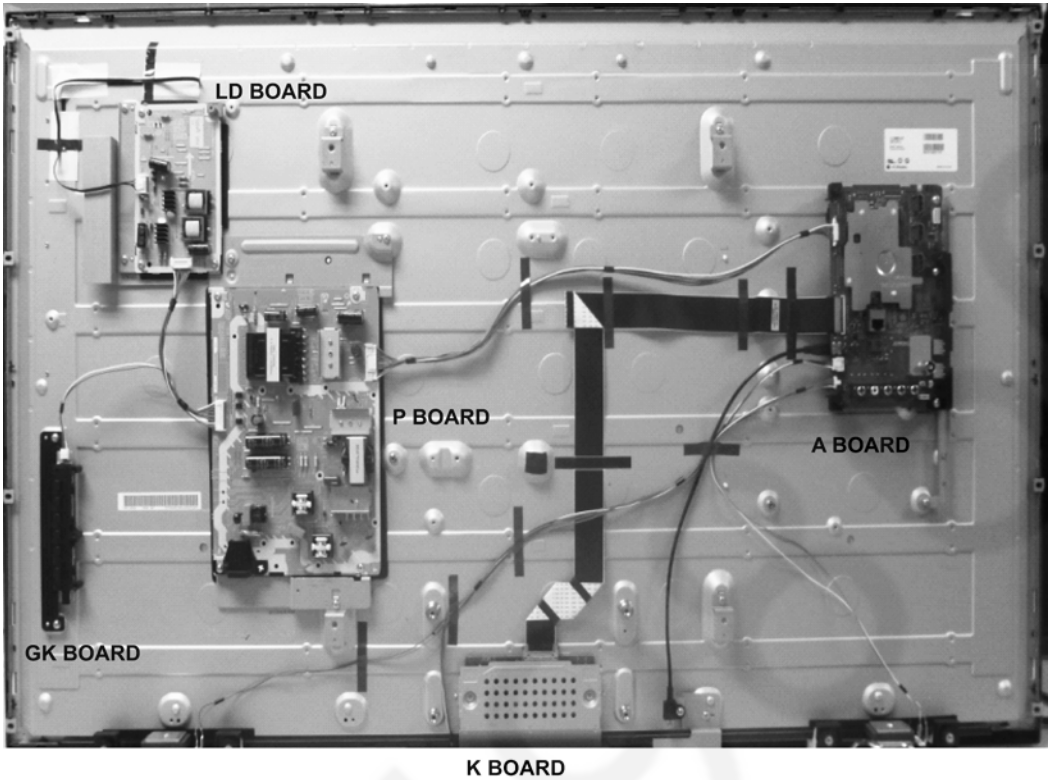
Caution

- 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
LD BOARD	LED DRIVER	Repairable

4 Specifications

Power Source	AC 110-240 V, 50 / 60 Hz
Power	
Rating	144 W
Standby power consumption	0.2 W
Visible screen size (diagonal)	126 cm
Display resolution	1,920 (W) × 1,080 (H)
Panel	LED backlight Liquid Crystal Display
Dimensions (W × H × D)	1,139 mm × 739 mm × 275 mm (With Pedestal) 1,139 mm × 673 mm × 84 mm (TV only)
Mass	18.0 kg Net (With Pedestal) 15.0 kg Net (TV only)

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: Content Type HDMI 2: Content Type, Audio Return Channel • This TV supports 'HDAVI Control 5' function.
ETHERNET	10BASE-T / 100BASE-TX
USB 1 / 2	USB 2.0 DC 5 V, Max. 500 mA
DIGITAL AUDIO OUT	PCM / Dolby Digital / DTS, Fibre optic

Sound	
Speaker	(100 mm × 30 mm) × 2, 8 Ω
Audio output	20 W (10 W + 10 W)

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

Receiving Channels	
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*:

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)

* The frequency and channel differ depending on the country.

Note

- 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).

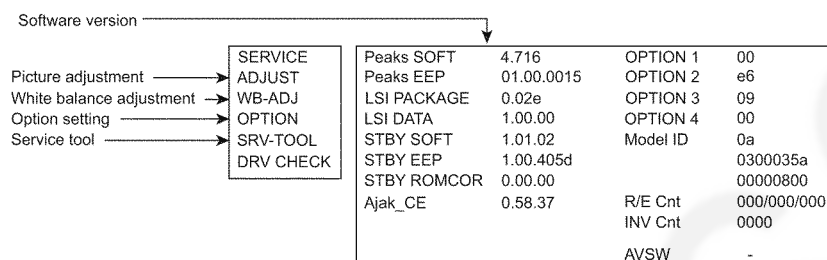
5 Service Mode

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.



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

Main item	Sub item	Sample Data
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.

SRV-TOOL	
Display of Flash ROM maker code →	Flash ROM : 98-DC
Display of SOS History →	PTCT : 00 . 00 . 00 . 00 . 00

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

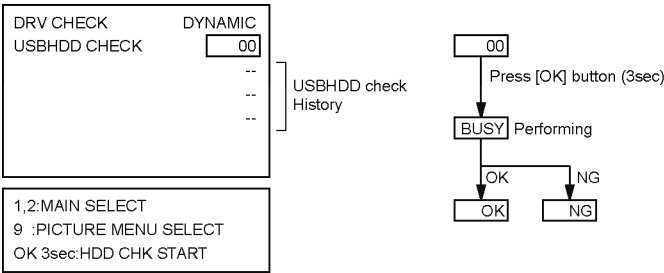
Note : This indication will not be cleared by either of the self-checks or any other command.

5.2.4. Exit

1. Disconnect the AC cord from wall outlet.

5.2.5. DRV Check - USBHDD Check

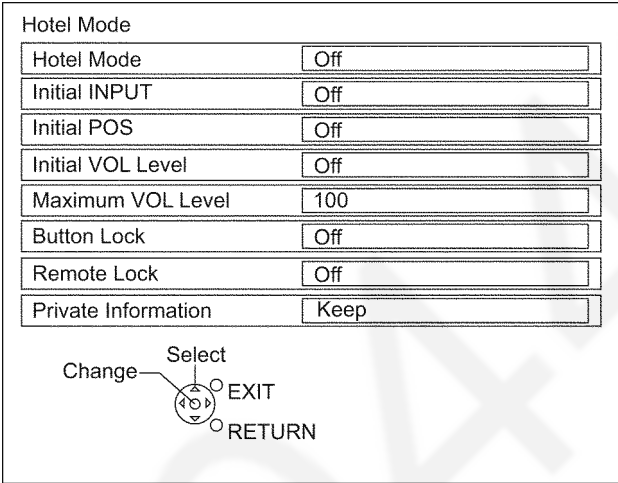
- 1. Select [DRV Check - USBHDD Check] in Service Mode.
- 2. Press [OK] button on the remote control for more than 3 seconds.



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

50 FHD			
SELF CHECK COMPLETE			
H14TUN	OK	PEAK-SOFT	4.716
H90STBY	OK	PEAKS-EEP	01.00.0015
H91MEM2	OK	LSI-PACKAGE	0.02e
H17LAN	OK	LSI-RELEASE	1.00
H97ID2	OK	STBY-SOFT	1.01.02
H42WiFi	OK	STBY-EEP	1.00.405d
		MODEL ID	0a
			0300035a
			00000800

6.1.6. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Check Ref. No.	Description	Check Point
H14TUN	IC6750	TUNER	A-Board
H90STBY	IC8000	STM	A-Board
H91MEM2	IC8900	NAND FLASH	A-Board
H17LAN		LAN	LAN
H96ID		ID	
H97ID2		ID2	
H42WiFi		WiFi	WiFi Dongle

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

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

Blinking Times	Contents	Check point
1	BACK LIGHT SOS	LCD PANEL P-Board
7	SUB 3.3V SENSE SOS	A-Board
9	SOUND SOS	A-Board Speaker
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:

Disconnect AC plug from wall outlet.

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.

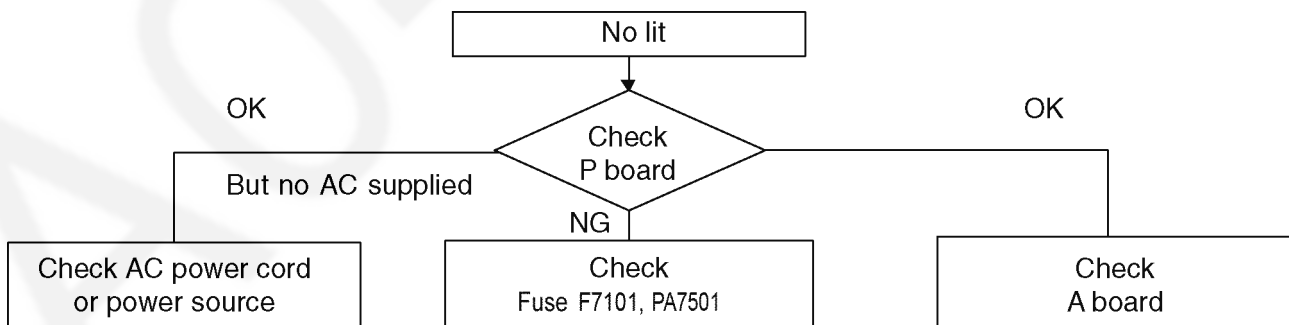
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.4. No Power

First check point

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

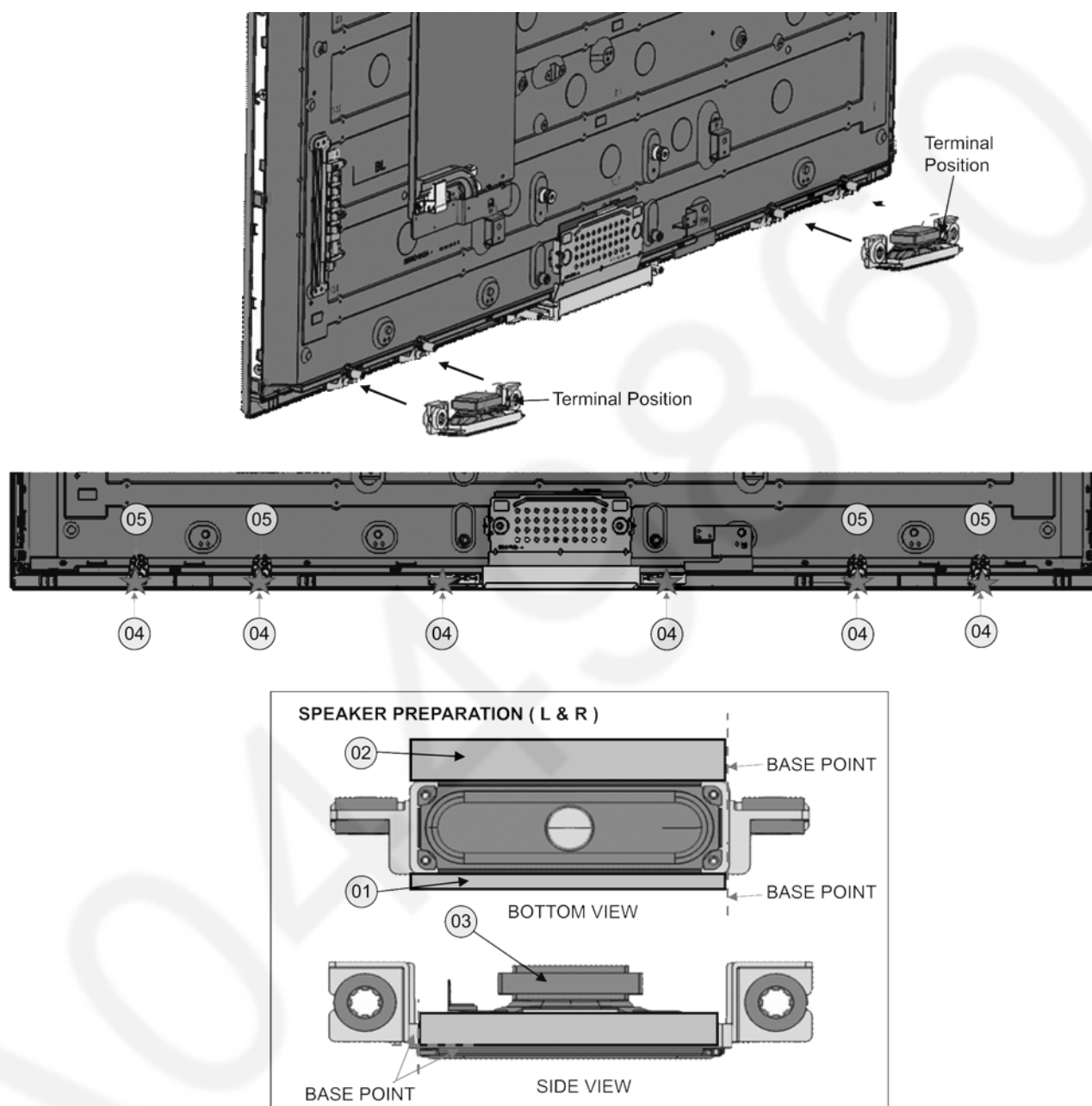
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Speaker Installation

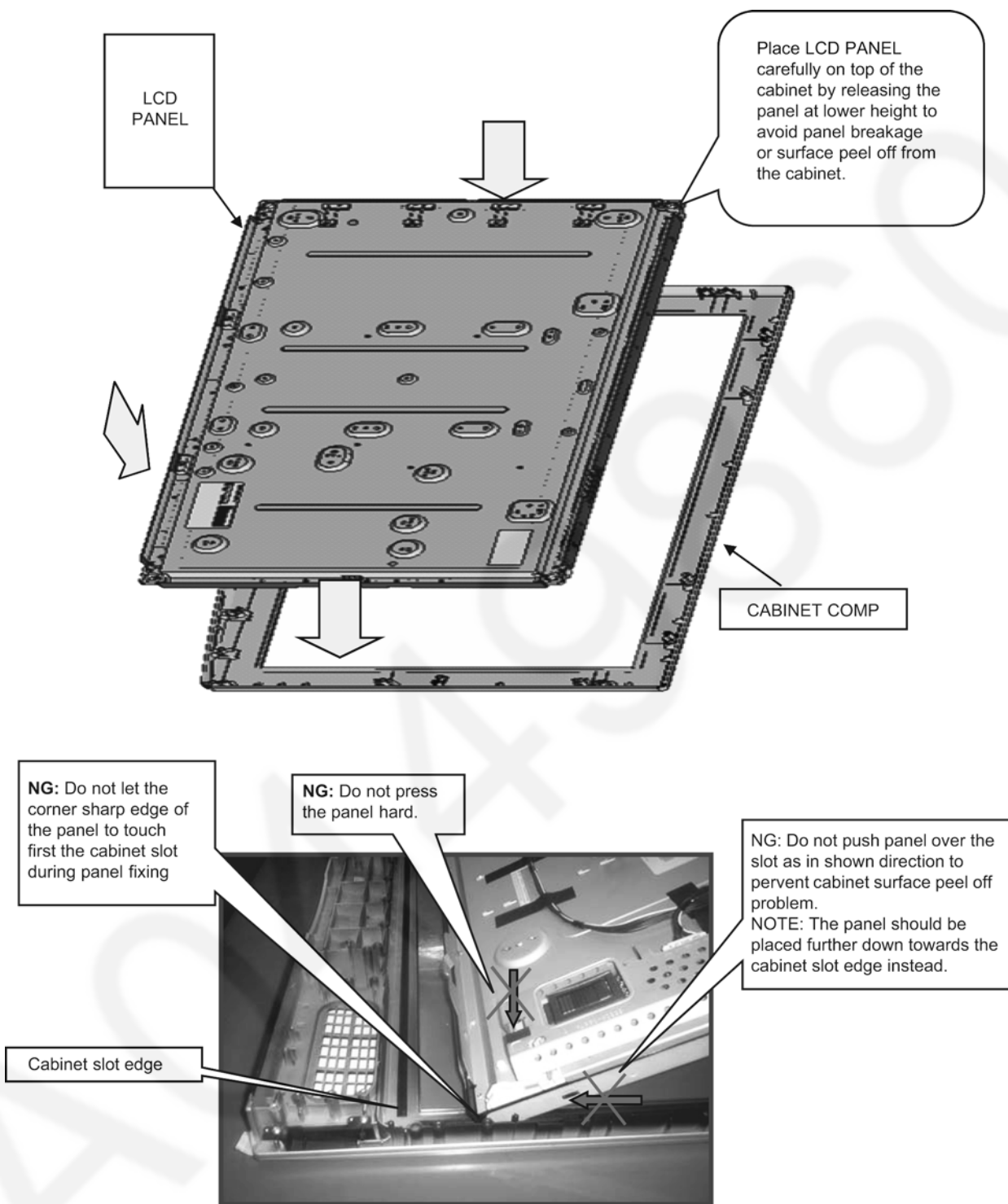
1. Fix speaker bracket at cabinet and screw.
2. Stick sponge at speaker (left and right) and fix at speaker bracket.



NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	TMK4GG081	2	PC	SPONGE	
02	TMK4GG093	2	PC	SPONGE	
03	L0EYAA000026	2	PC	SPEAKER UNIT	
04	XTV3+10JFJ	6	PC	SCREW (SP4/BTM_CVR2)	8.0 ± 1 Kgf.cm
05	TKX5ZA02801	4	PC	SP_BRACKET	

7.2. LCD Panel Fixing & Handling Method

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

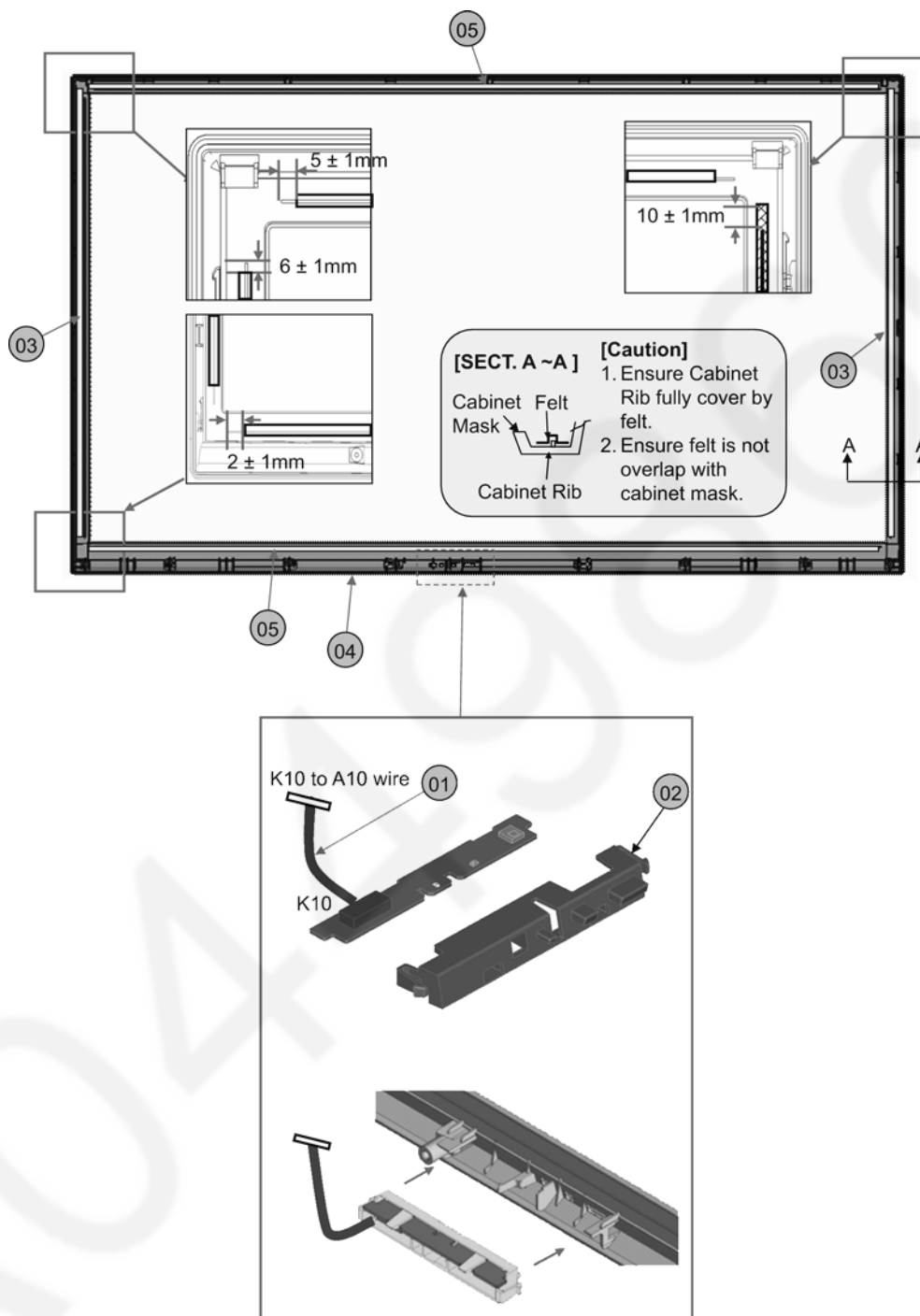


Other general precautions

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.

7.3. Cabinet Assembly

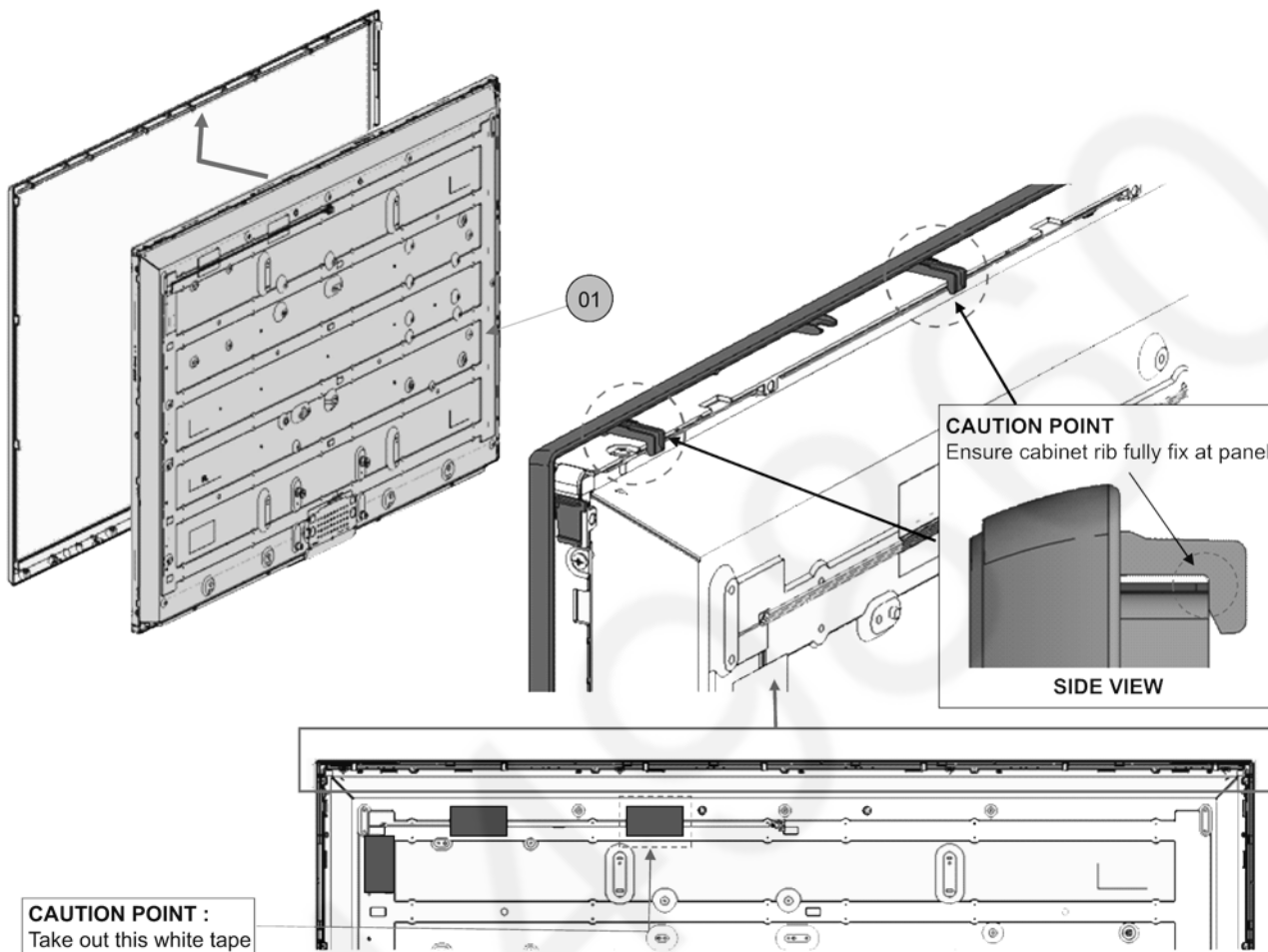
1. Stick felt at cabinet (Top bottom and left right).
2. Fix pcb at led panel and fix to cabinet.



NO	PART NO	QTY	UOM	DESCRIPTION
01	TXJA10TGUZ	1	PC	A10-K10
02	TKK5ZC50311	1	PC	LED_PANEL
03	TMK4GA295	2	PC	FELT (T0.55 × 630 × 5-HB) MASK_SIDE_L_R
04	TXFKY5Z0526	1	PC	CABINET_ASSY
05	TMK4GA294	2	PC	FELT (T0.55*1085*5-HB) MASK_TOP_BOT

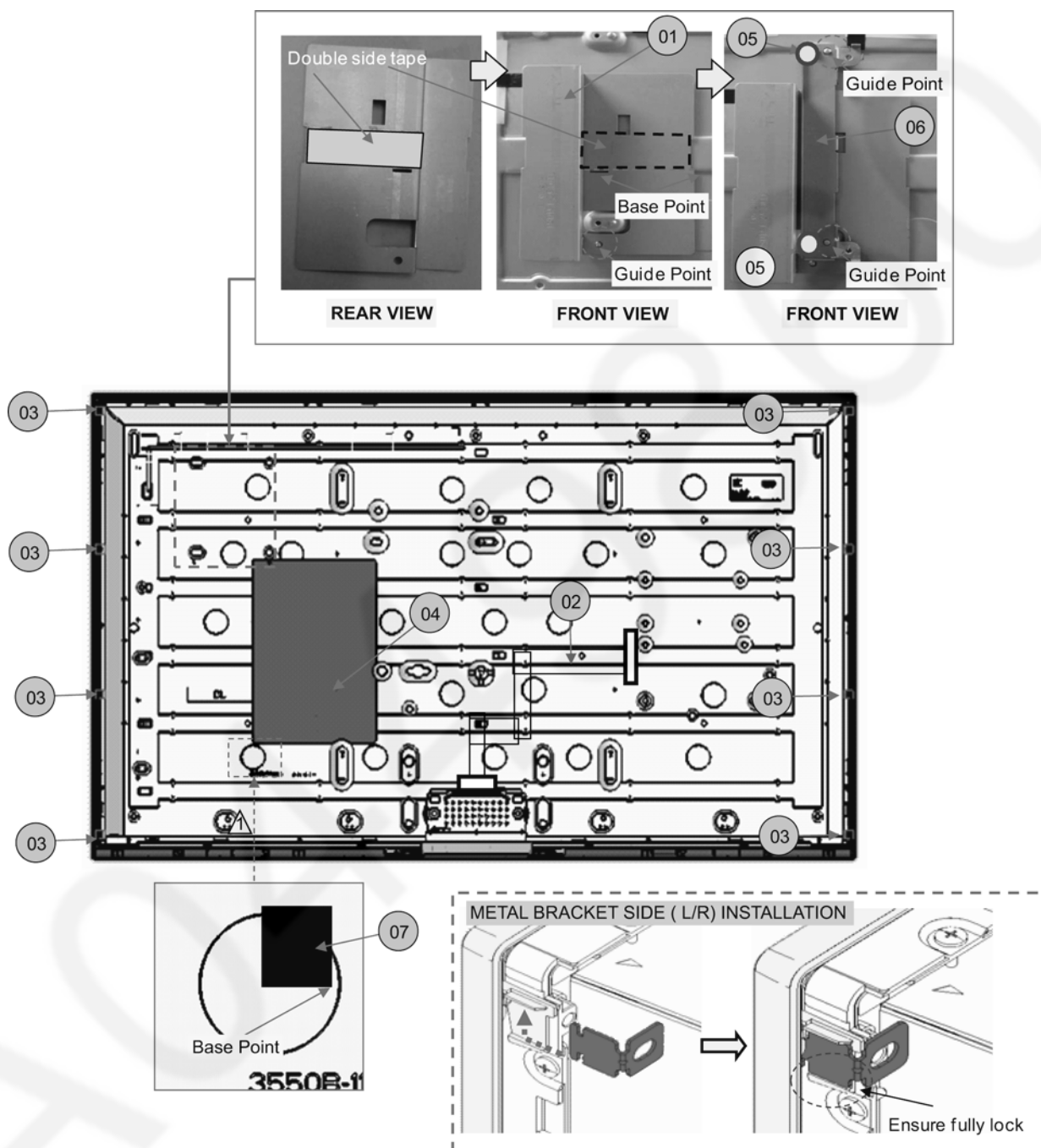
7.4. Cabinet Fixing

1. Fix LCD panel into cabinet assembly.
2. Ensure cabinet rib fully fix at LCD panel.



7.5. Metal Bracket Fitting 1

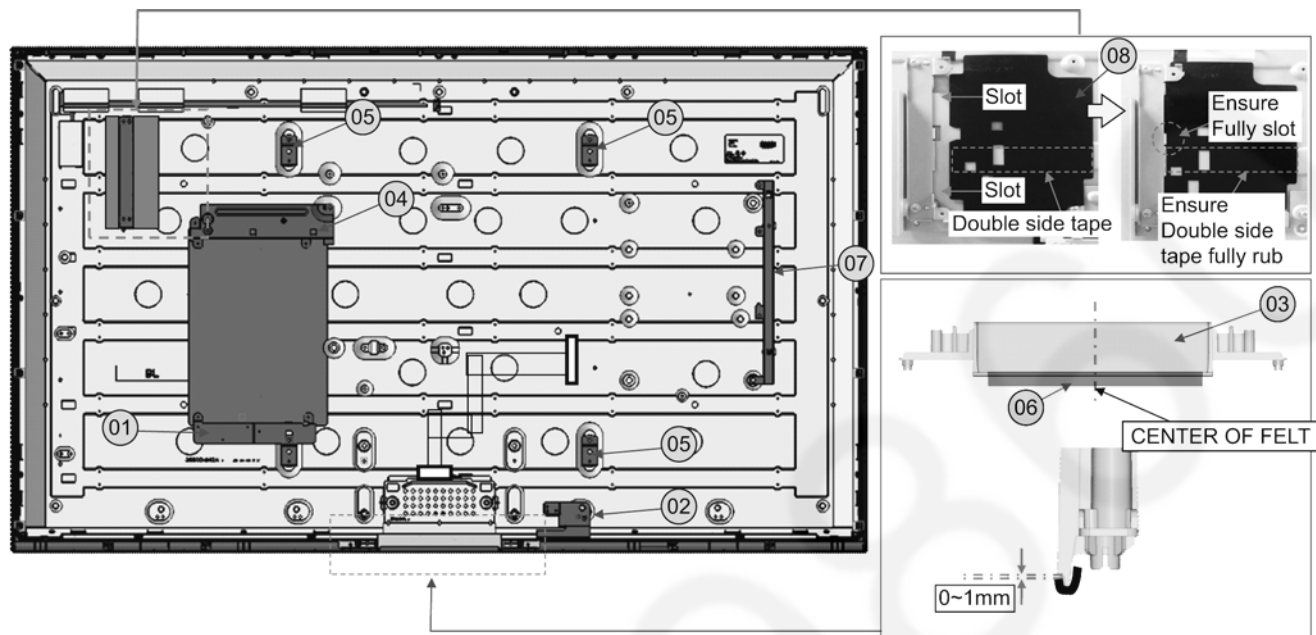
1. Stick felt at panel.
2. Fix metal bracket side (L/R) at cabinet.
3. Fix barrier and LVDS at panel.
4. Stick heat metal at panel by take out double side tape separator.
5. Fix metal CH frame at panel and heat metal and screw.



NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	TUC5ZJ51081	1	PC	HEAT METAL	
02	TSCKF0170076	1	PC	LVDS_FFC (51PIN)	
03	TKZ5ZA50611	8	PC	METAL_BRACKET_SIDE(L/R)	
04	TMK4GX182	1	PC	BARRIER_P	
05	THEJ036J	2	PC	SCREW (A3/P4/L3/VESA4/KEY2/FRAME10/WIFI1)	
06	TUA5ZA10101	1	PC	METAL_CH_FRAME_LED DRIVER	6.0 ± 1 Kgf.cm
07	TMK4GA027	1	PC	FELT	

7.6. Metal Bracket Fitting 2

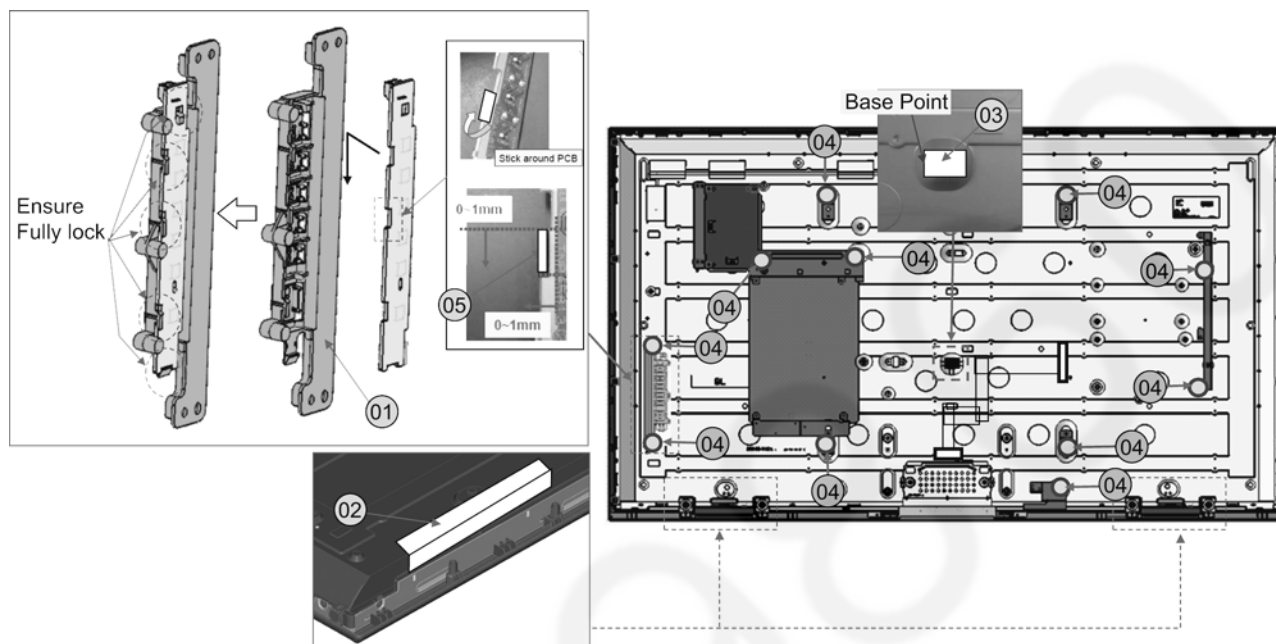
1. Fix all metal frame at LCD panel.
2. Stick felt at bottom cover and fix at cabinet.
3. Take out separator at barrier and stick between heat metal and metal chassis frame.



NO	PART NO	QTY	UOM	DESCRIPTION
01	TUA5ZA10001	1	PC	METAL_CH_FRAME_BTM
02	TUX5ZX0291	1	PC	WI-FI_METAL
03	TKP5ZA38101	1	PC	BOTTOM_COVER
04	TUA5ZA09901	1	PC	METAL_CH_FRAME_TOP
05	TKZ5ZX50741	3	PC	VESA_METAL
06	TMK4GA173	1	PC	FELT(10 × 140 × 0.55)
07	TUA5ZA07702	1	PC	METAL MTG A BOARD
08	TMK4GX183	1	PC	BARRIER_LED

7.7. Metal Bracket Screw

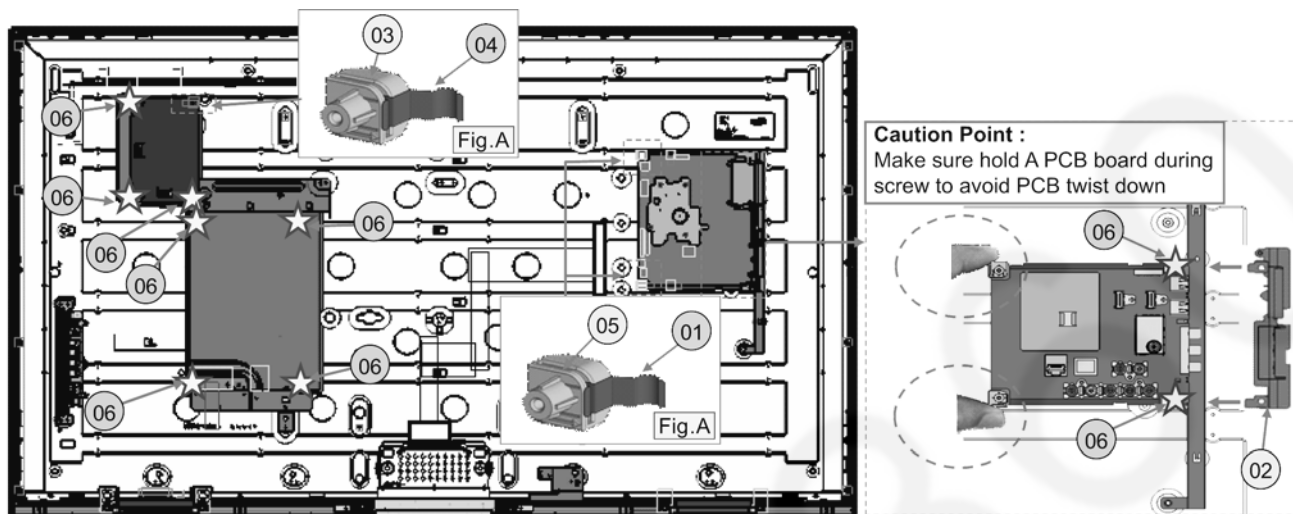
1. Fix screw at metal bracket.
2. Stick felt at LCD panel.
3. Fix felt at control panel PCB.
4. Fix PCB at key button bracket.



NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	TBX5ZA03201	1	PC	KEY_BUTTON_BRACKET	
02	TMK4GA046	2	PC	FELT(15 × 160 × 0.9)	
03	TMK4GA094	1	PC	FELT(20 × 24 × 0.35)	
04	THEJ036J	11	PC	SCREW (A3/P4/L3/VESA4/KEY2/FRAME10/WIFI1)	6.0 ± 1 Kgf.cm
05	TMK4GA127	1	PC	FELT (5 × 8 × 0.55)	

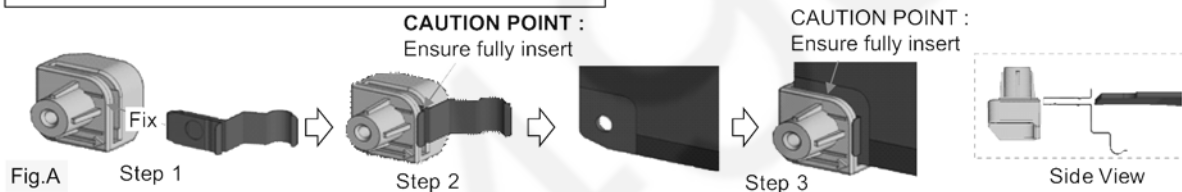
7.8. PCB Screw

1. Fix ground spring at chassis mount boss and fix at a PCB.
2. Fix side av bracket.
3. Fix P-PCB and A-PCB at panel and screw.



ASSEMBLY CONTENT :

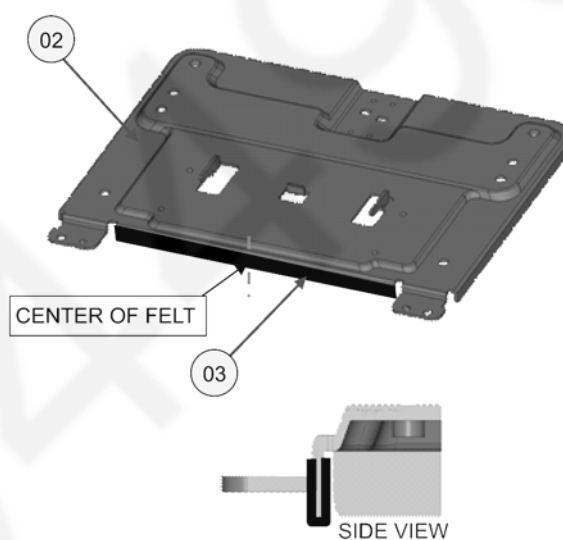
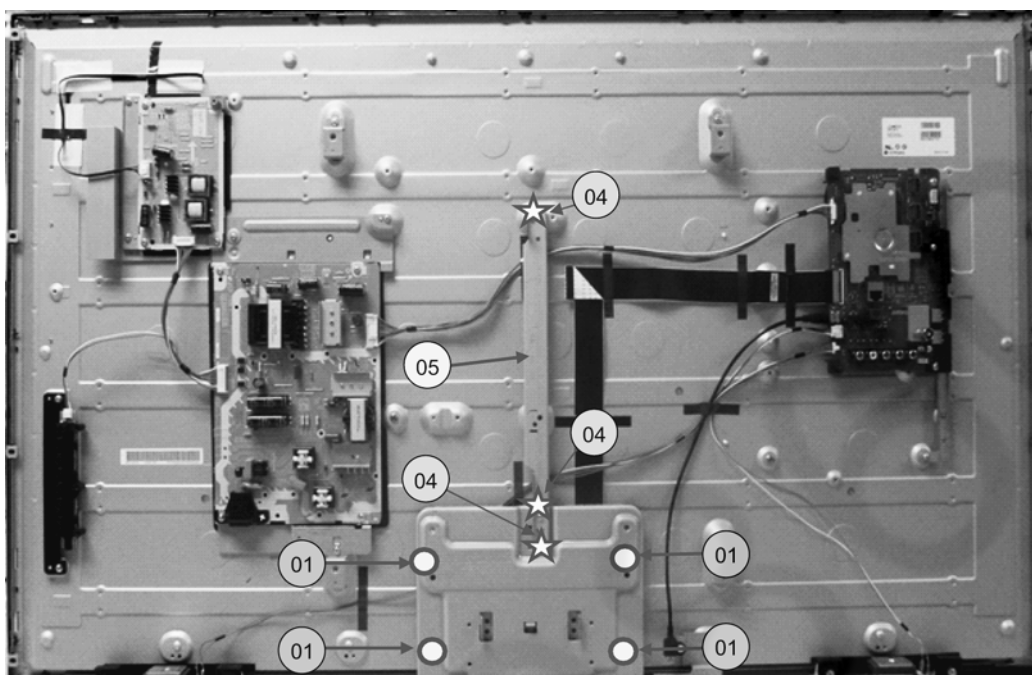
- 1) Fix ground spring at ch mount boss and ensure fully lock
- 2) Fix ch mount assembly to pcb and ensure fully lock



NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	TES5ZA003-1	2	PC	GROUND_SPRING (A)	
02	TKP5ZA29402	1	PC	SIDE_AV_BRACKET	
03	TMX5ZE0076	1	PC	CHASSIS_BRACKET (LED)	
04	TES5ZA001	1	PC	GROUND_SPRING (LED)	
05	TMX5ZE0046	2	PC	CHASSIS_BRACKET (A_BOARD)	
★ 06	THEJ036J	9	PC	SCREW (A3/P4/L3/VESA4/KEY2/FRAME10/WIF11)	6.0 ± 1 Kgf.cm

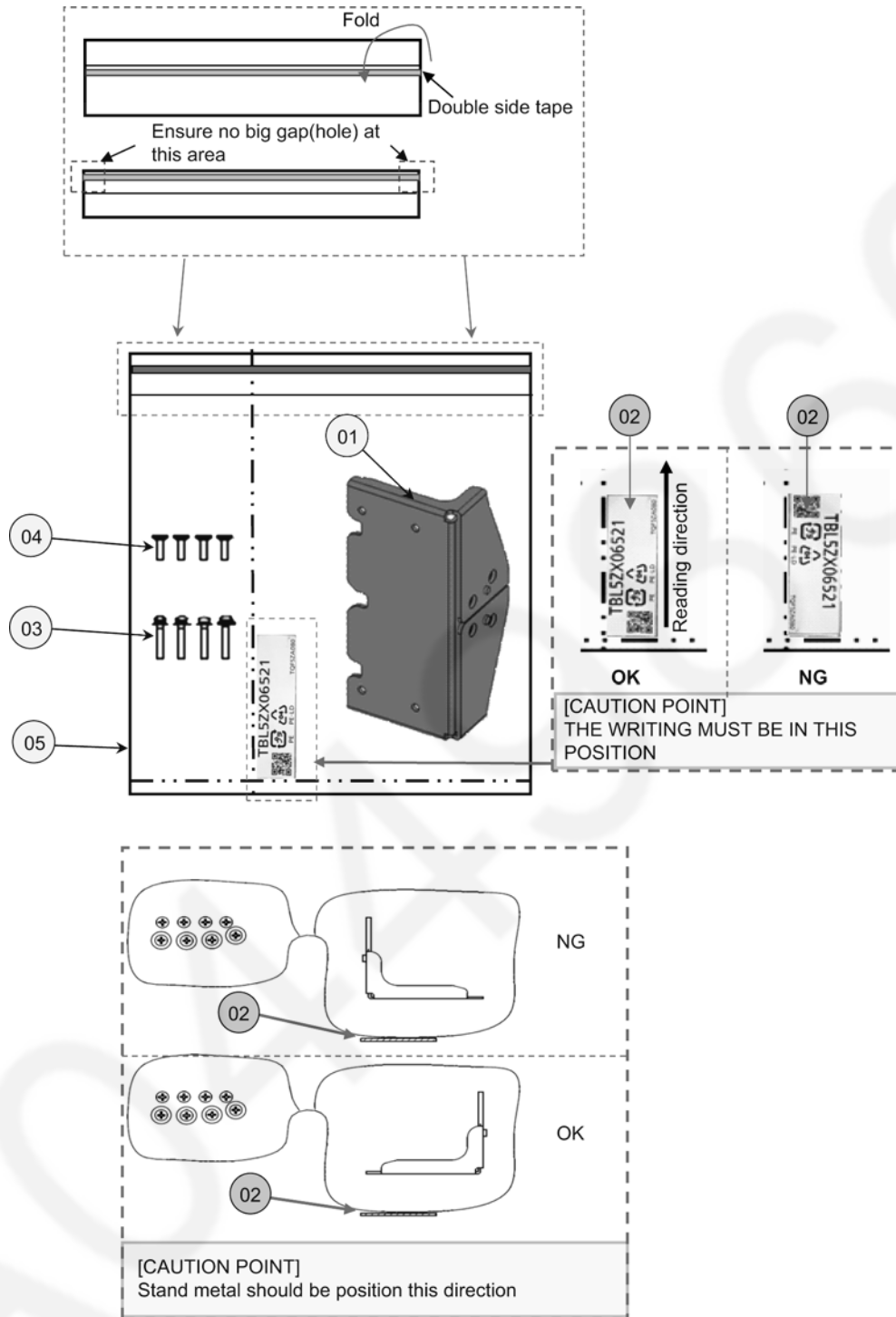
7.9. Bottom Metal Installation

Stick felt at bottom bracket metal and fix at panel.



NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	THE4GJ001J	4	PC	SCREW (BTM MTG4)	7.5 ± 0.5 Kgf.cm
02	TKZ5ZC50071	1	PC	METAL_BRACKET_BOTTOM	
03	TMK4GA173	1	PC	FELT (10 × 140 × 0.55)	
04	THEJ036J	3	PC	SCREW(A3/P4/L3/VESA4/KEY2/FRAME10/WIF11)	6.0 ± 1 Kgf.cm
05	TUA5ZA08202	1	PC	METAL_VERTICAL_L	

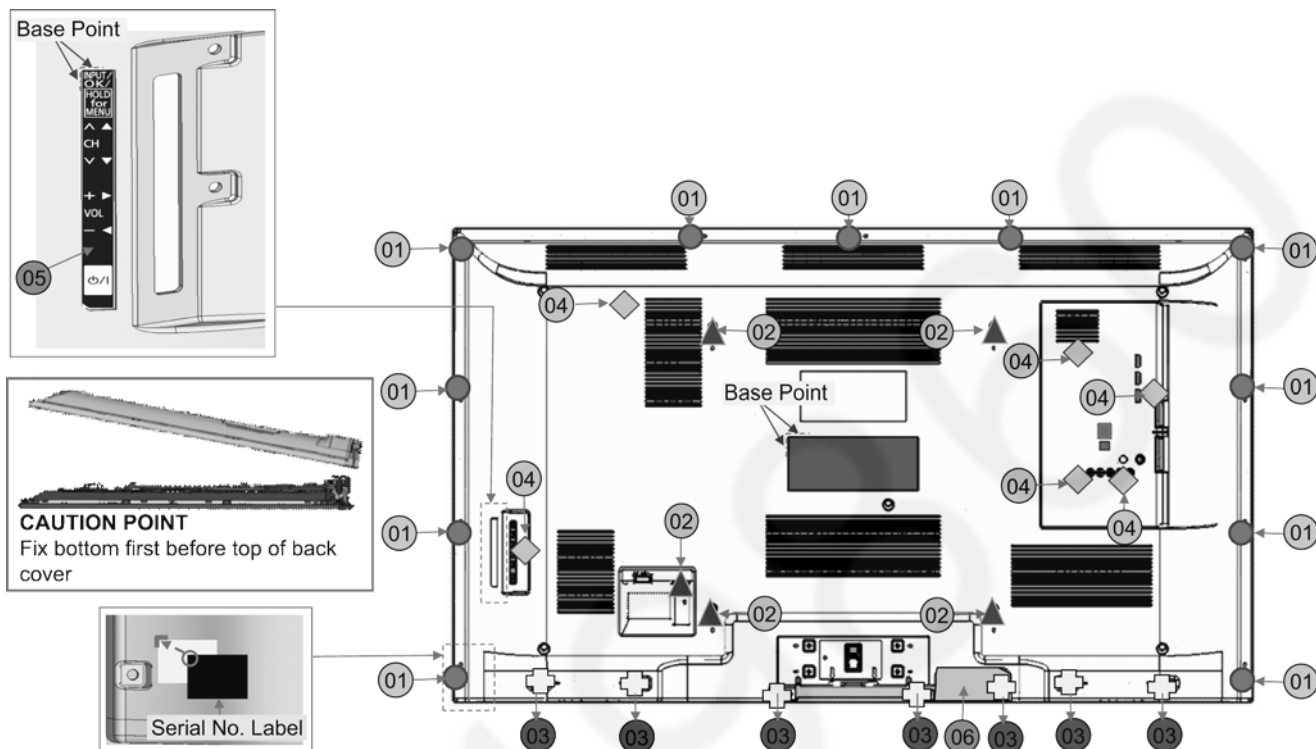
7.10. Stand Metal Preparation



NO	PART NO	QTY	UOM	DESCRIPTION
01	TBL5ZA34551	1	PC	STAND METAL
02	TQF4GA267	1	PC	QR CODE LABEL
03	XSS5 + 16FJK	4	PC	SCREW
04	XYN4 + F12FJK	4	PC	SCREW
05	TPE4GH100	1	PC	PE BAG

7.11. Back Cover - Label & Screw

1. Stick side button label and model name plate at back cover
2. Fix back cover and wifi dongle and screw.
3. Stick sirim label at model name plate.



No	Part No	QTY	UOM	Description	Remark
01	THTD030J	11	PC	SCREW (BC17)	11 ± 2 Kgf.cm
02	THEC1509	5	PC	SCREW (ACINLET)	06 ± 1 Kgf.cm
03	THTD030J	7	PC	SCREW (BC17)	09 ± 1 Kgf.cm
04	XTV3+10GFJK	6	PC	SCREW (TERMINAL4/L1/CTRL1)	06 ± 1 Kgf.cm
05	TBM4GU2661	1	PC	SIDE_BUTTON_LABEL	
06	N5HBZ0000101	1	PC	WIFI_DONGLE	

7.12. Handling SPEC

■ Moving the LCD module

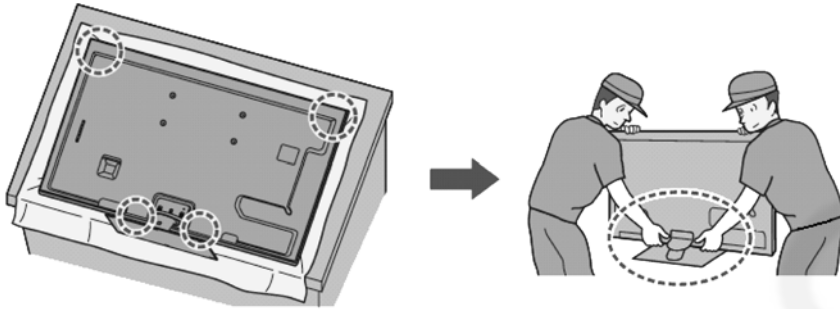
The module should be handled by two people and held on the top and bottom long side by both hands without module warping. Never handle the module with keeping horizontal position when moving the module in order to avoid internal damage and deformation. Never drop or hit the module.

■ 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	
PANEL12V	TP4000 / 4001	11.50V - 12.50V	
SUB5V	TP5420	4.95V - 5.40V	
SUB3.3V	TP5400	3.17V - 3.43V	
SUB1.5V	TP8100	1.435V - 1.585V	
SUB1.2V	TP8101	1.140V - 1.260V	
LNB_PWR	TP6702	15.30V - 17.10V	Only JPN_Model
JP_TU_2.5V	TP5705	2.38V - 2.62V	
DMD_1.2/1.1V	TP5702	1.14V - 1.26V	Only JPN_Model
DMD_1.2/1.1V	TP5703	1.14V - 1.26V	Only DTMB_Model

8.2. Voltage chart of P-board

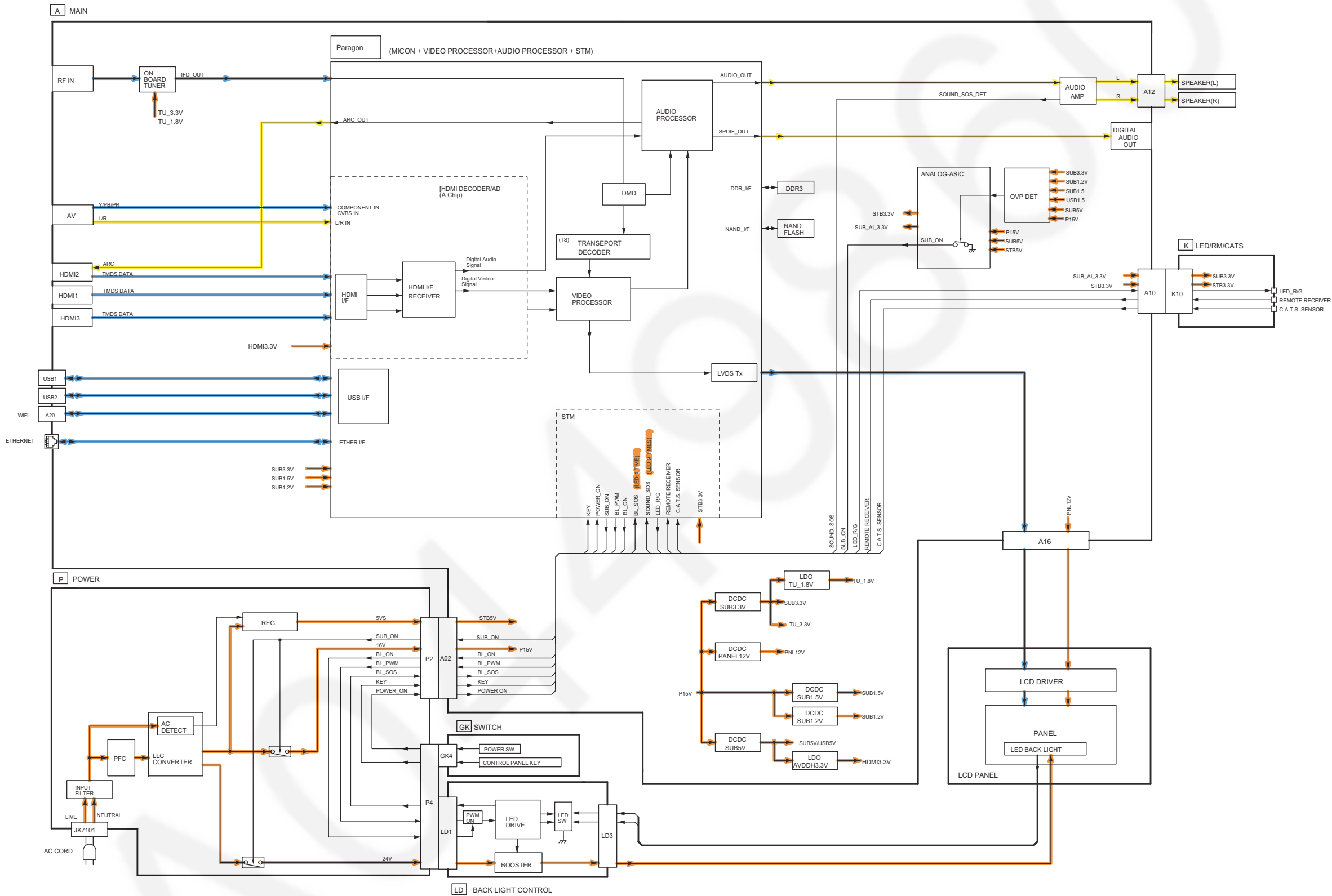
Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

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

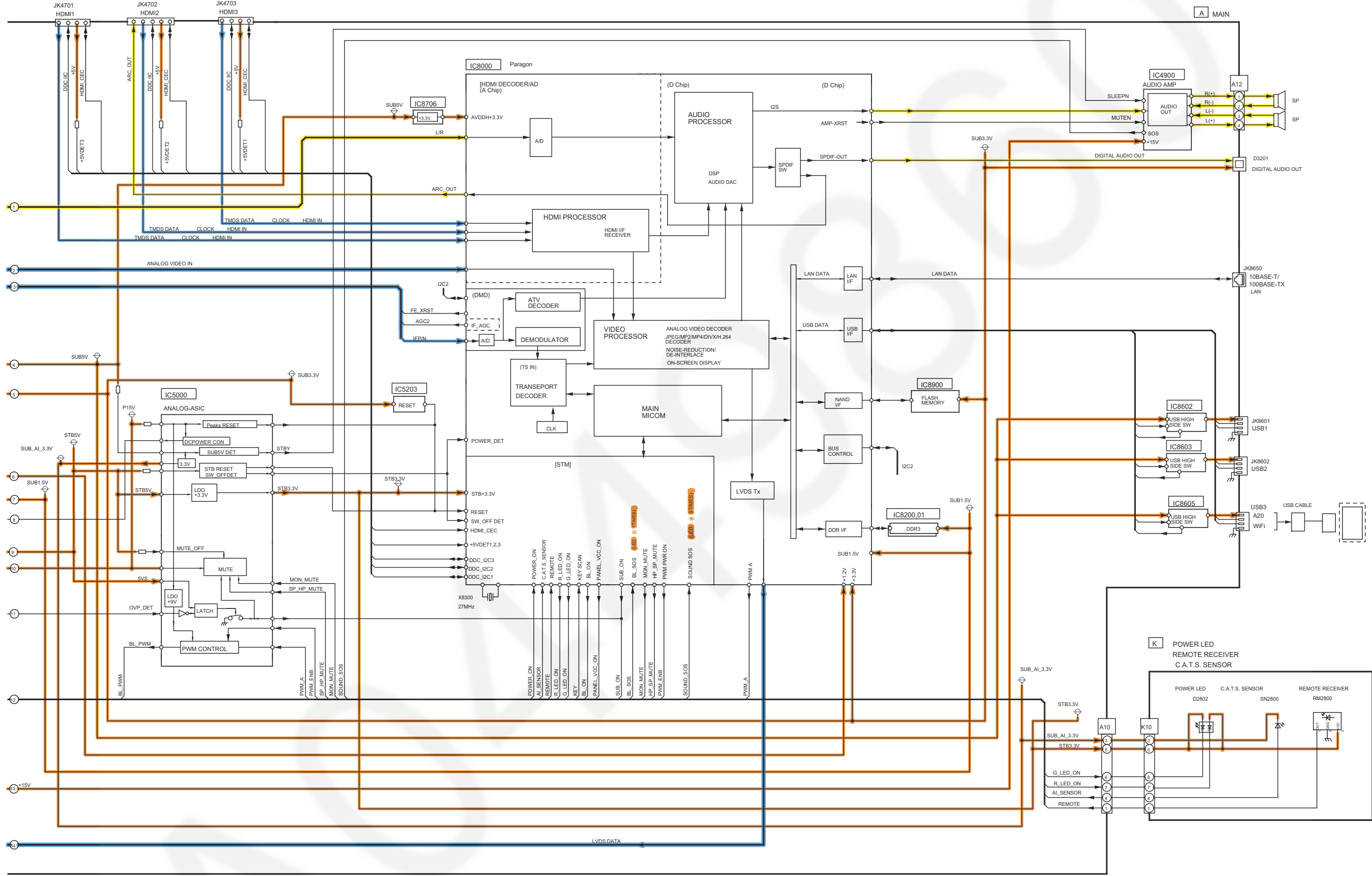
9 Block Diagram

9.1. Main Block Diagram





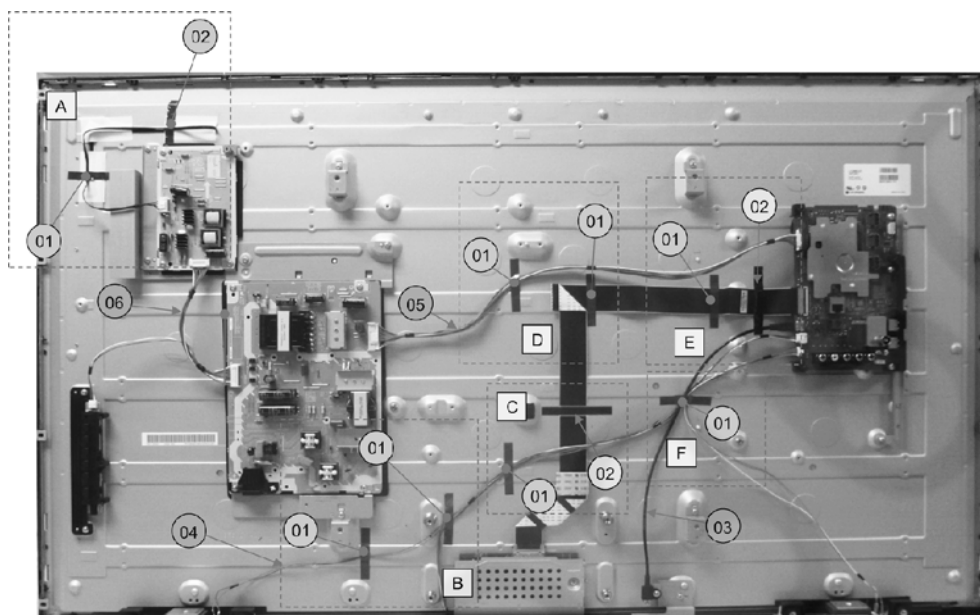
9.3. Detailed Block Diagram (2/2)



10 Wiring Connection Diagram

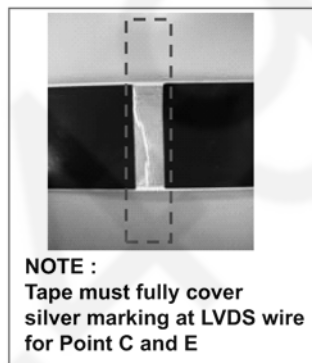
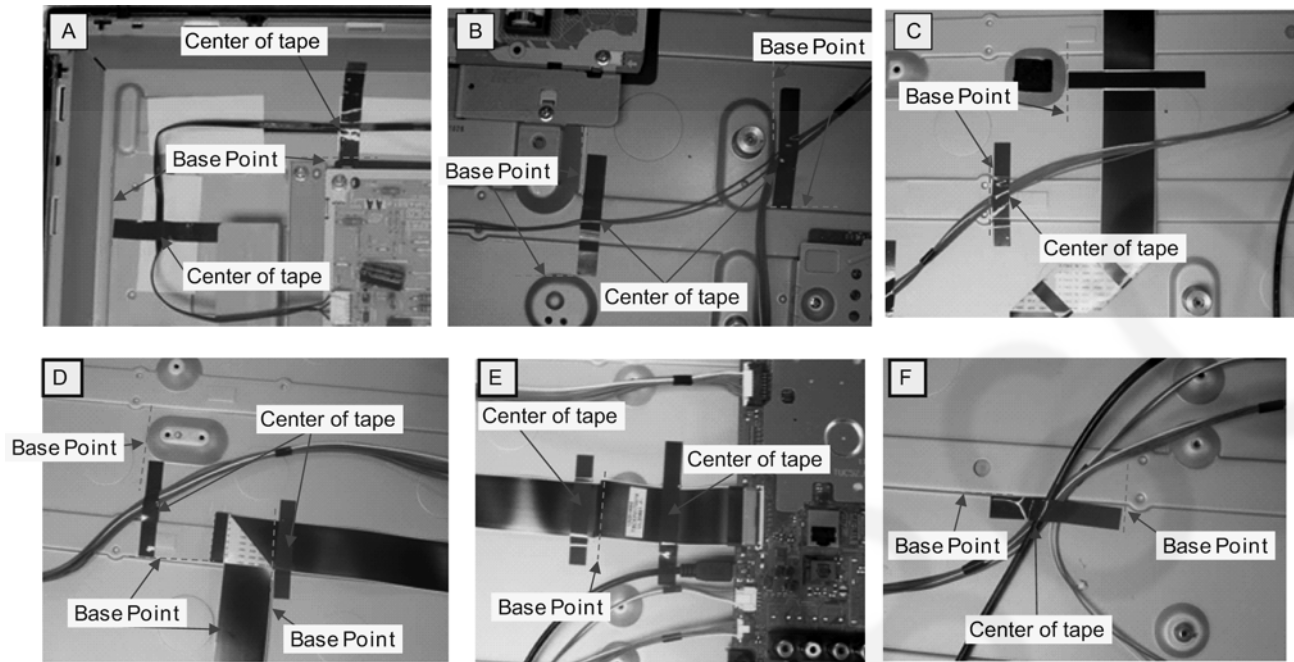
10.1. Wire Dressing 1

Fix all connector at pcb and dressing follow diagram.



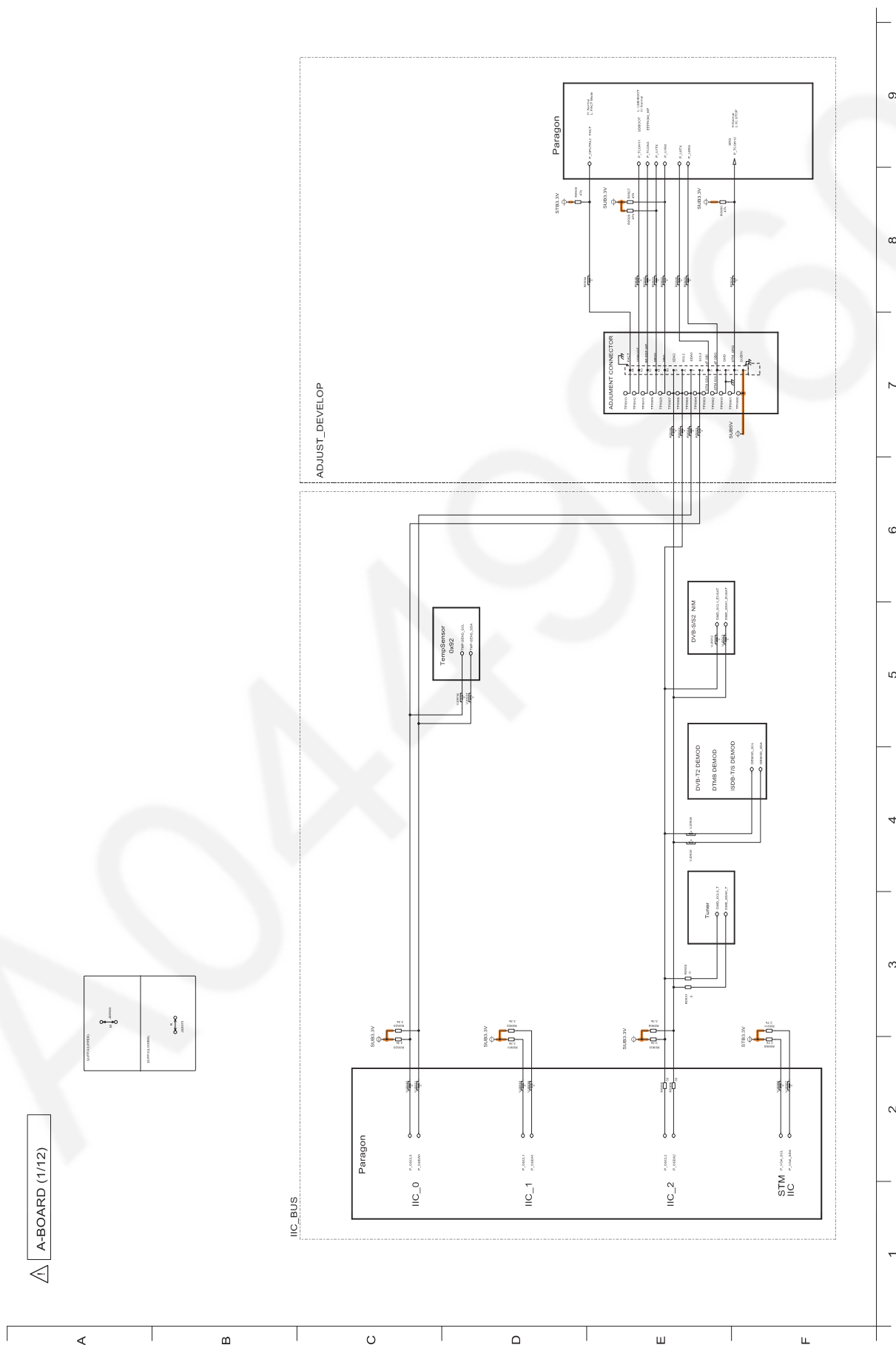
NO	PART NO	QTY	UOM	DESCRIPTION	REMARK
01	T4FP1005J	0.54	MT	PET TAPE (0.06*9)	60 mm × 9 pcs
02	TEWF279	2	PC	PET/AL TAPE (W10XL80)	
03	K1HY05YY0097	1	PC	USB CABLE (410MM)	
04	TXJA12TGUZ	1	PC	A12 - SP	
05	TXJA02TGUZ	1	PC	A02 - P2	
06	TXJP04FXVE	1	PC	LD - P4	

10.2. Wire Dressing 2



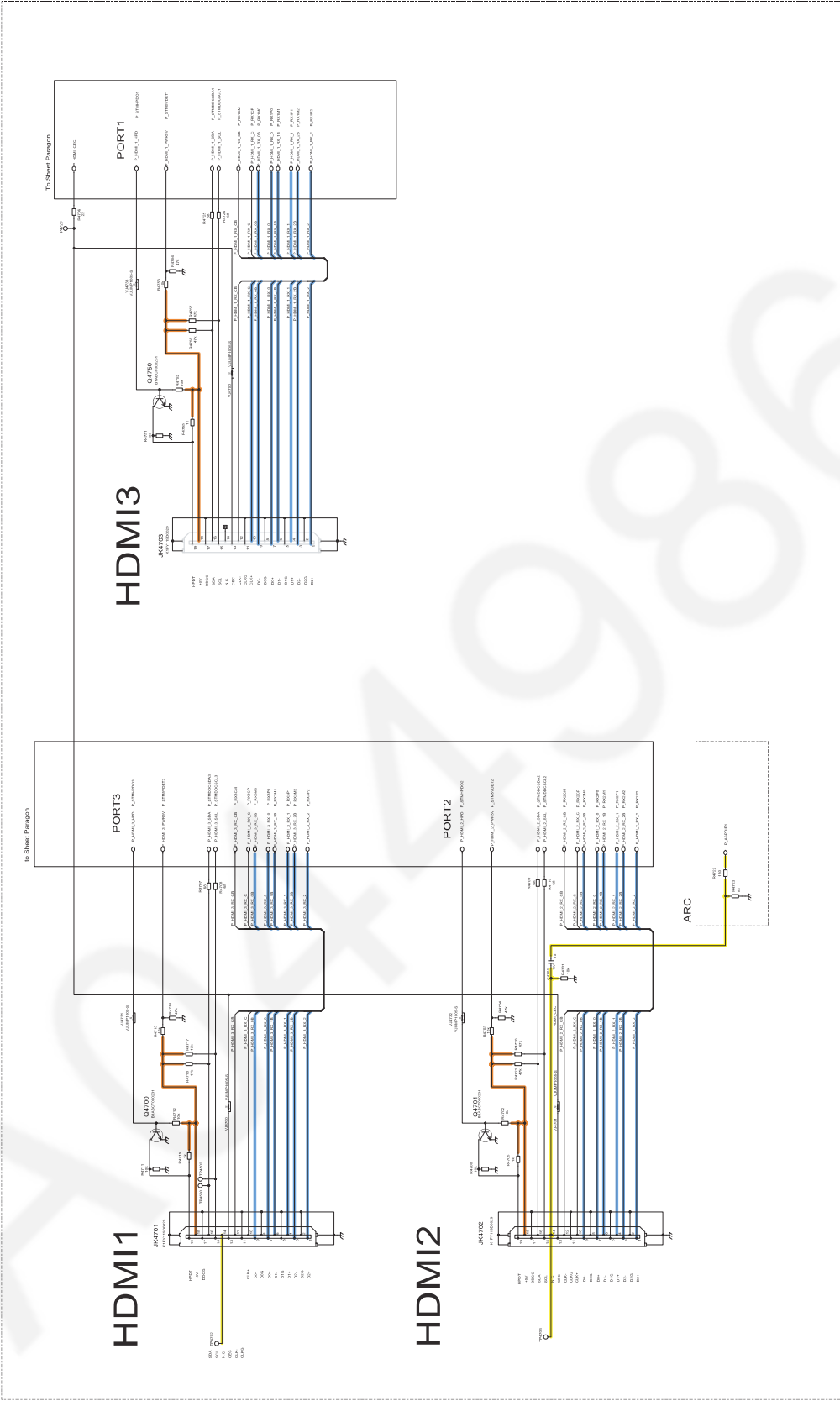
11 Schematic Diagram

Model No. : TH-L50BL6M A-Board (1/12)



A-BOARD (2/12)

HDMI



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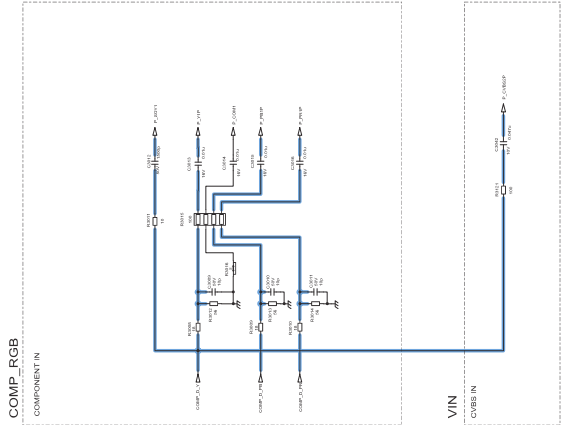
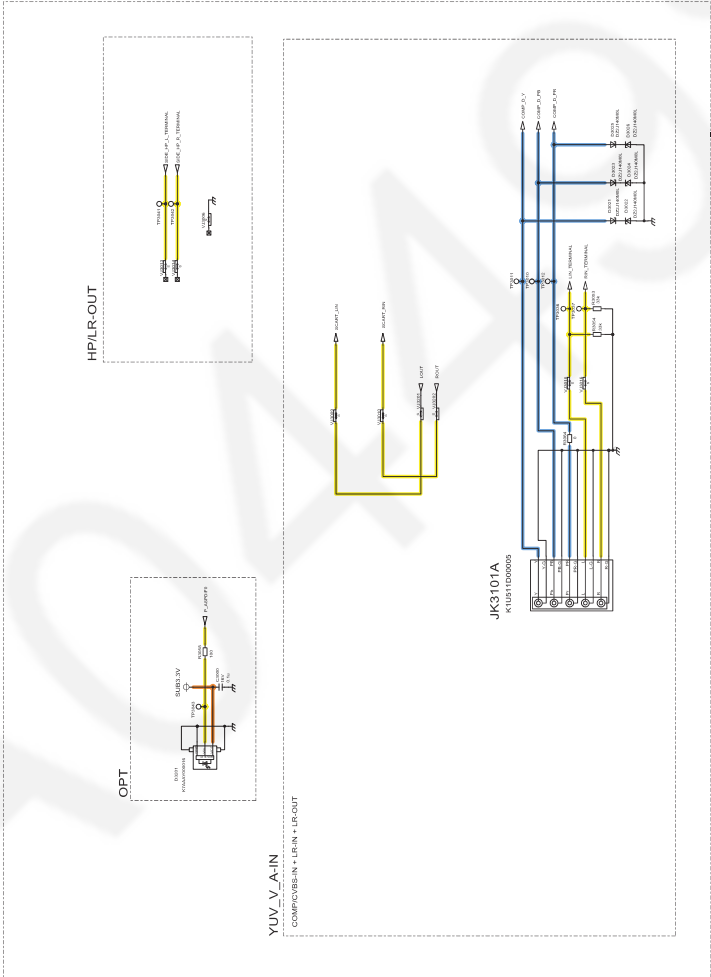
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10

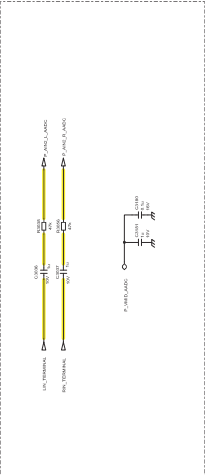


A-BOARD (4/12)

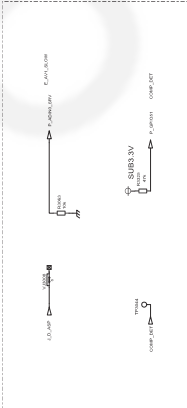
TERMINAL



AUDIO IN



DET



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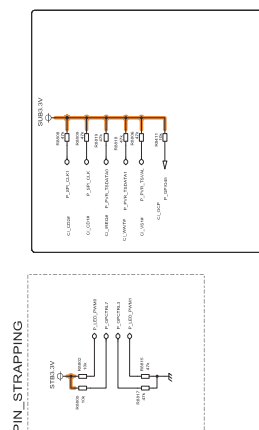
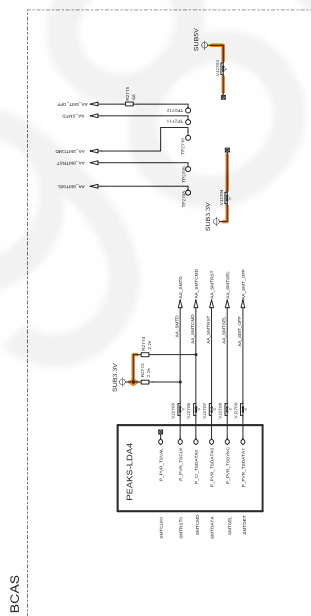
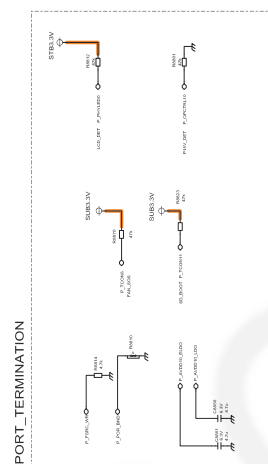
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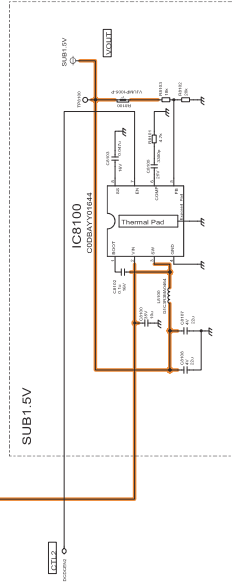
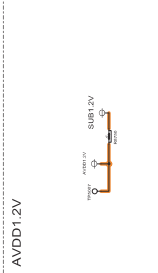
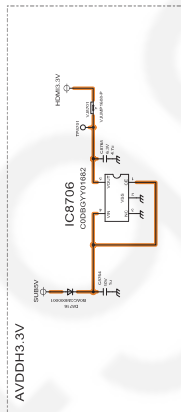
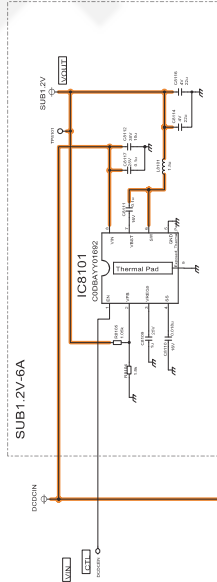
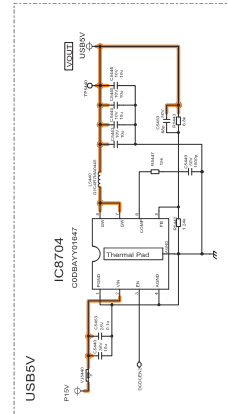
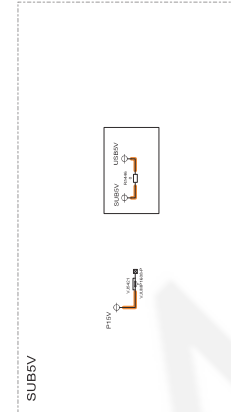
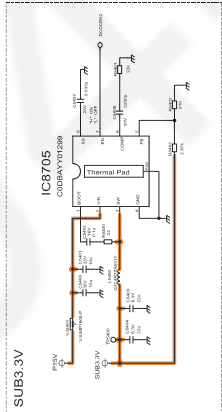
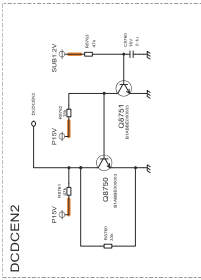
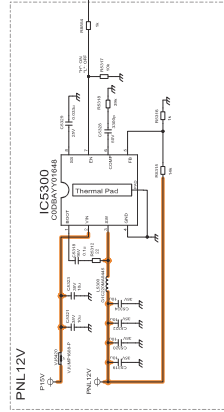
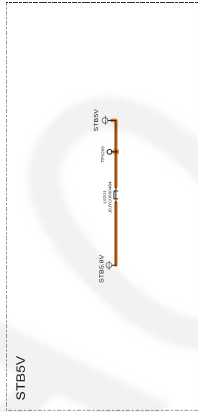
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34

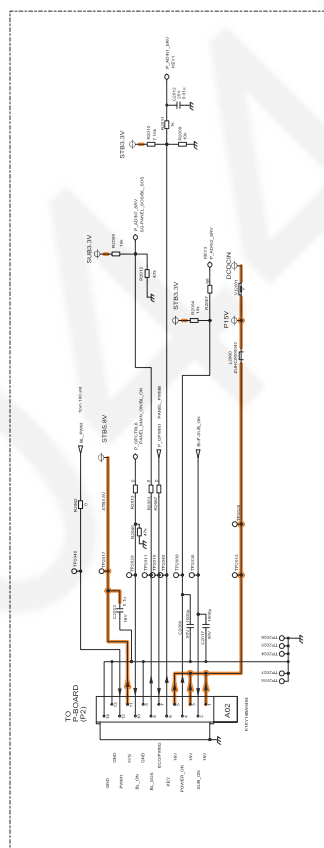
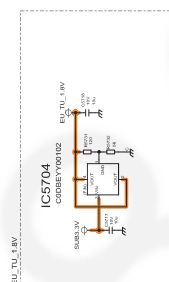
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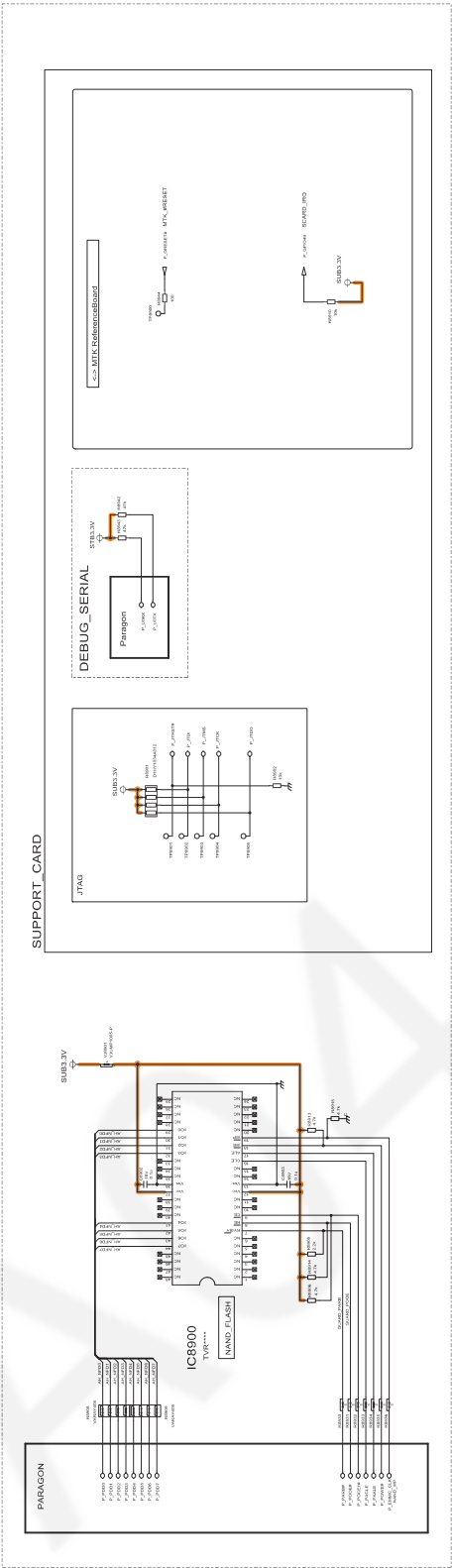




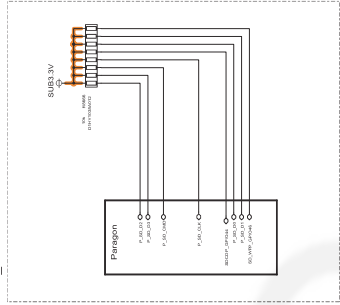


A-BOARD (9/12)

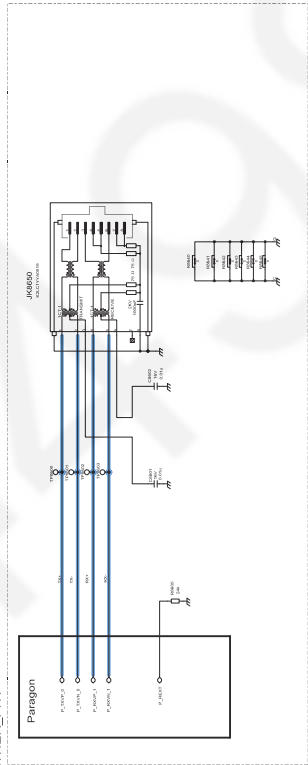
EX-BUS



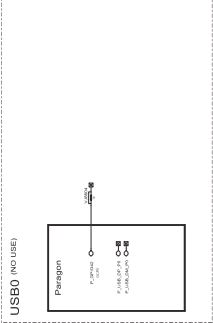
SD_CARD



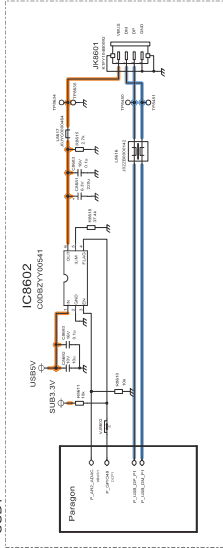
ETHER_PHY



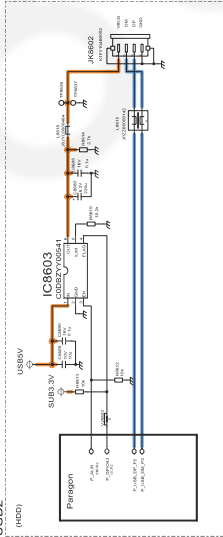
USB0 (NO USE)



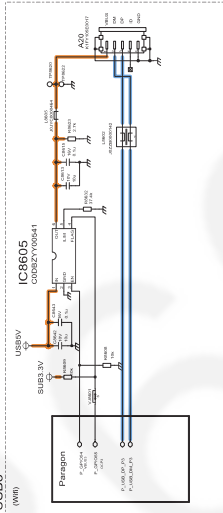
USB1



USB2 (HCD)



USB3 (WH)



73

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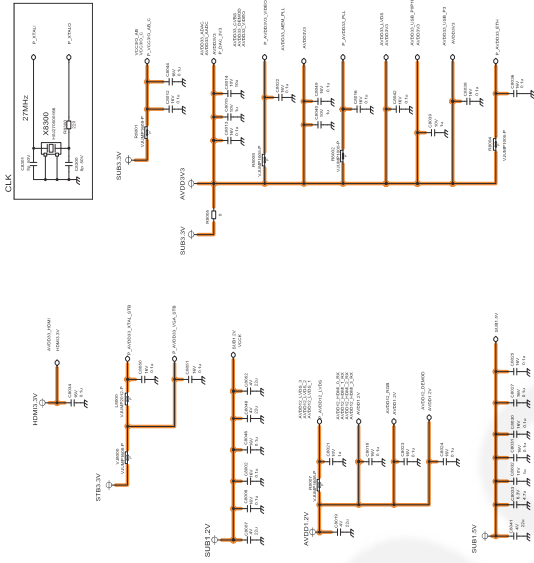
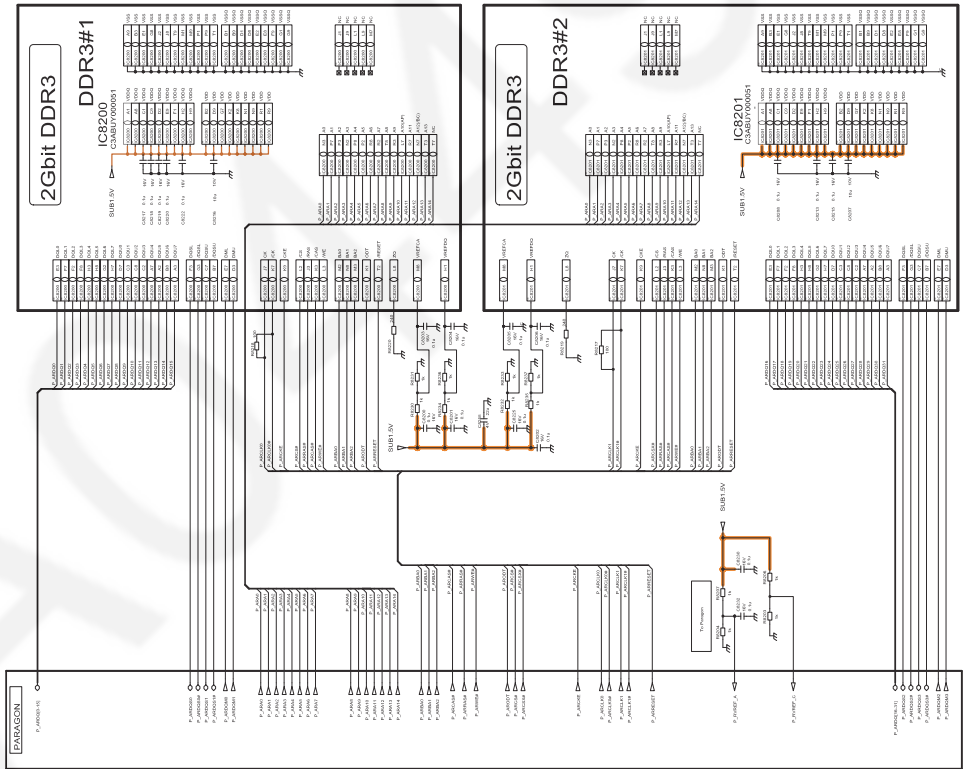
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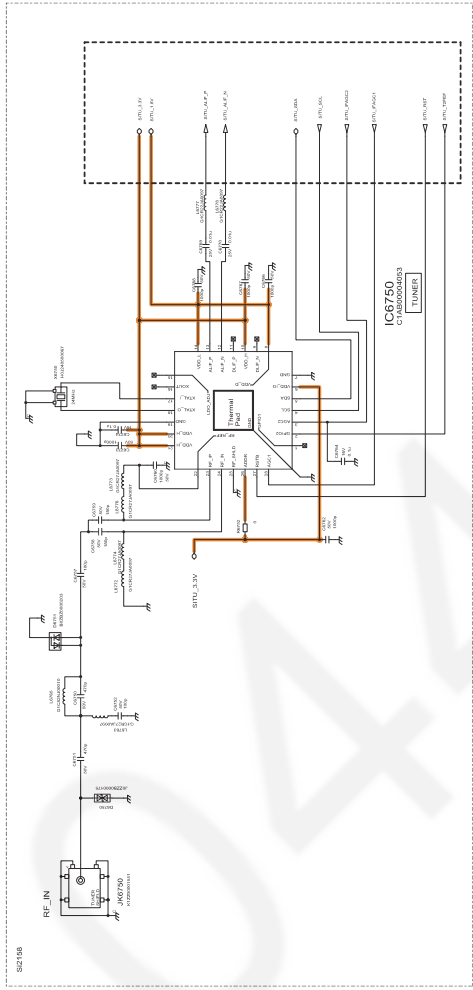
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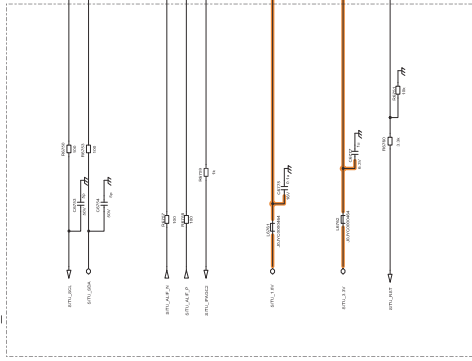


A-BOARD (12/12)

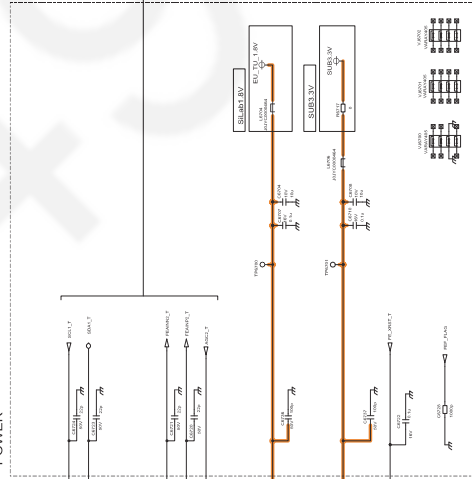
ONBOARD (ONBOARD TUNER)



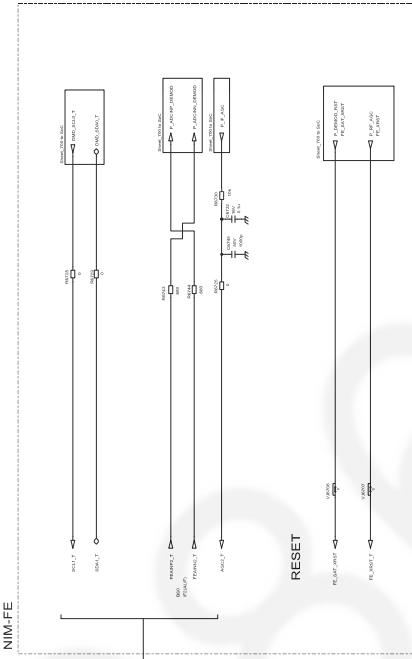
MAIN TUNER (ONBOARD TUNER)



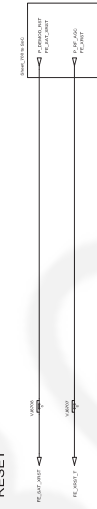
POWER

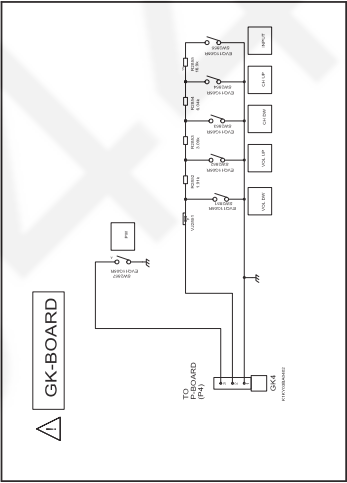


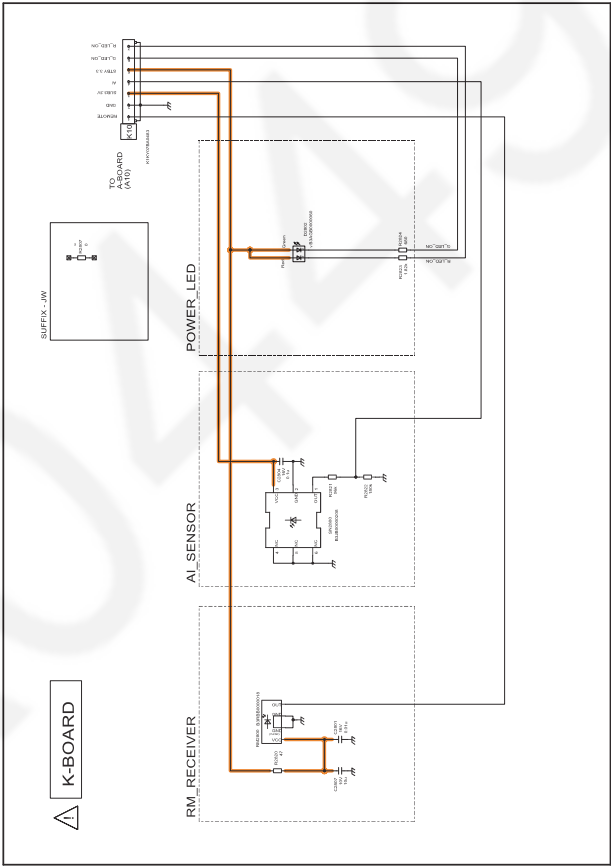
NIMFE



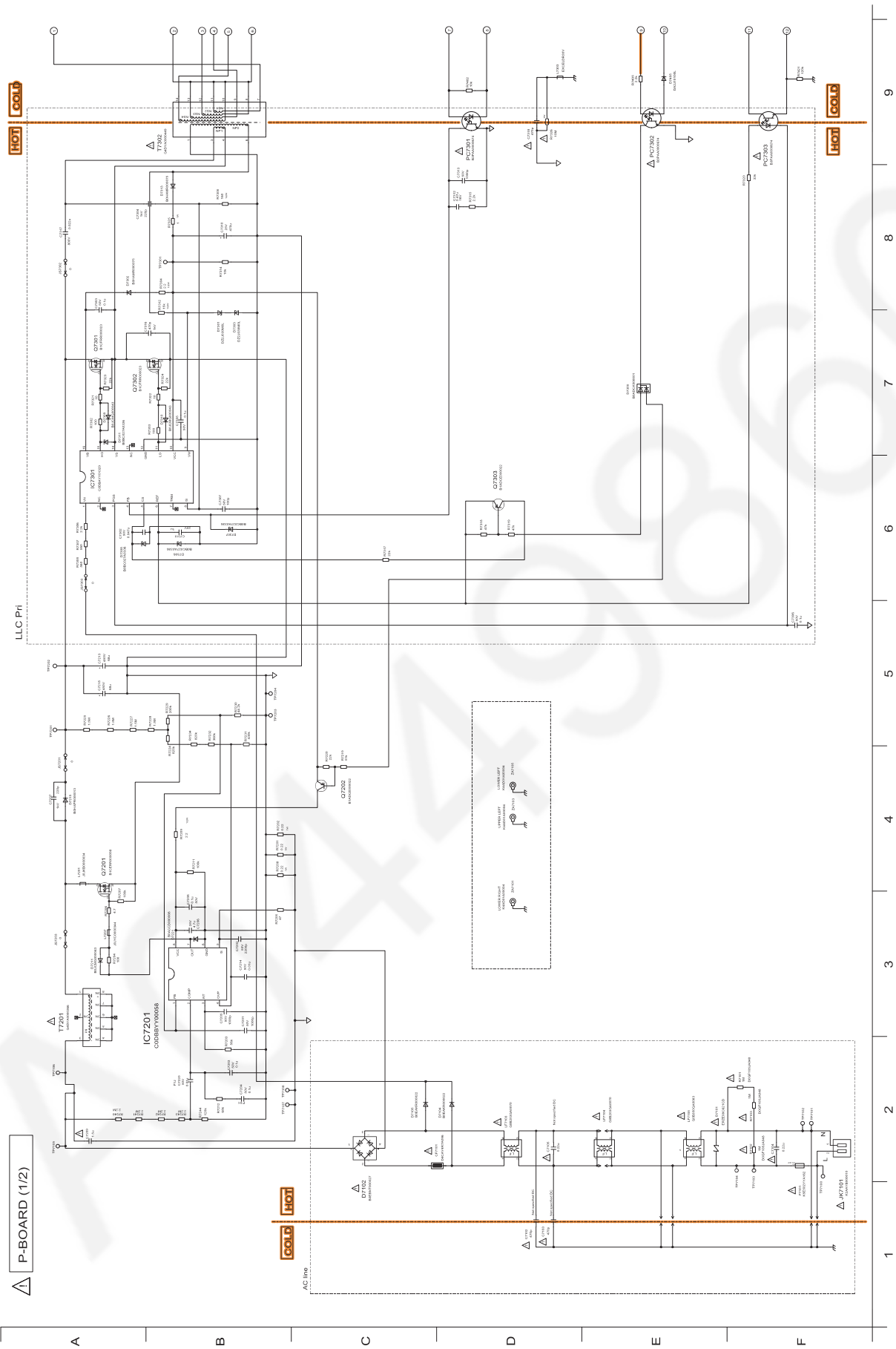
RESET

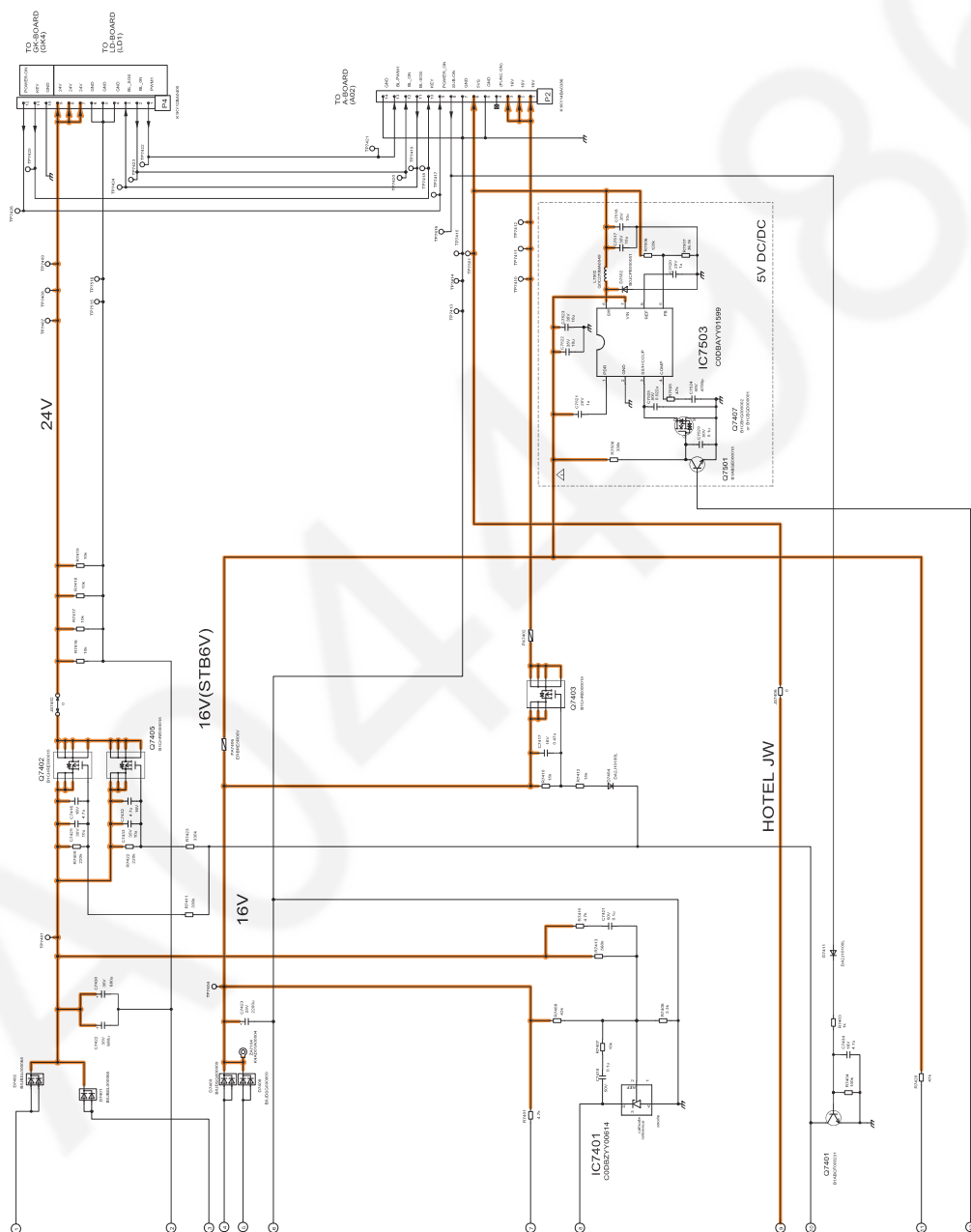






Model No. : TH-L50BL6M P-Board (1/2)



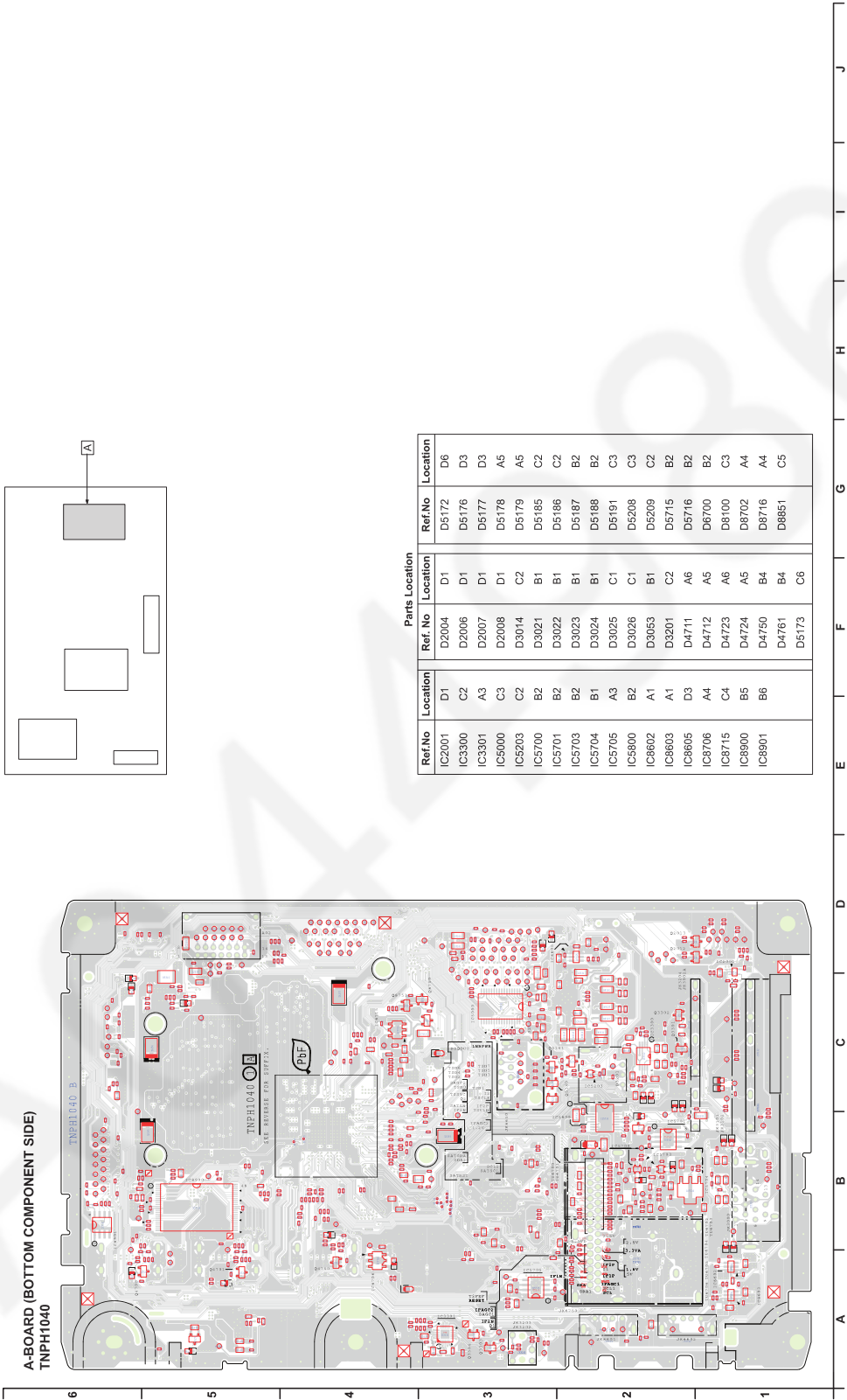


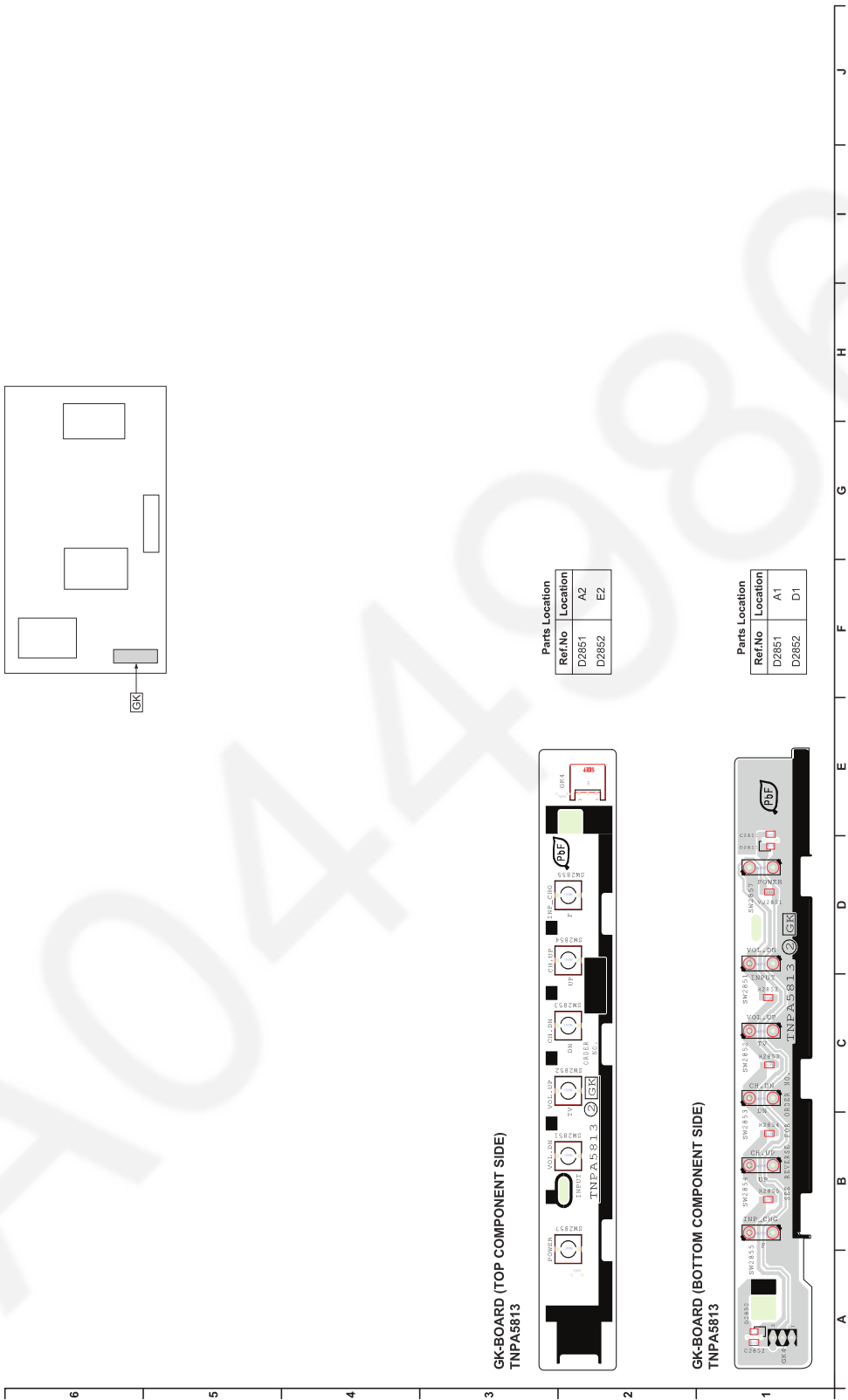
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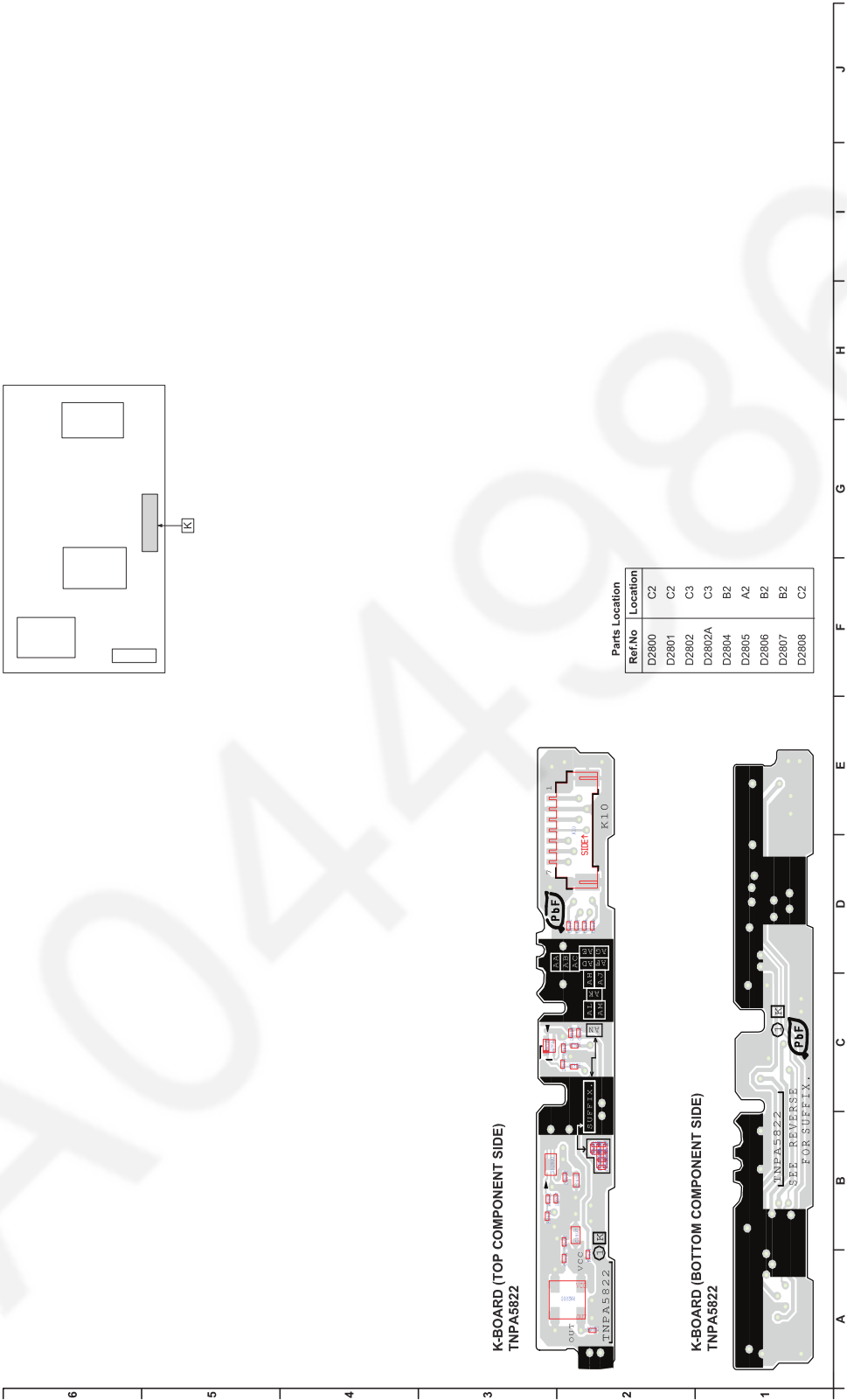
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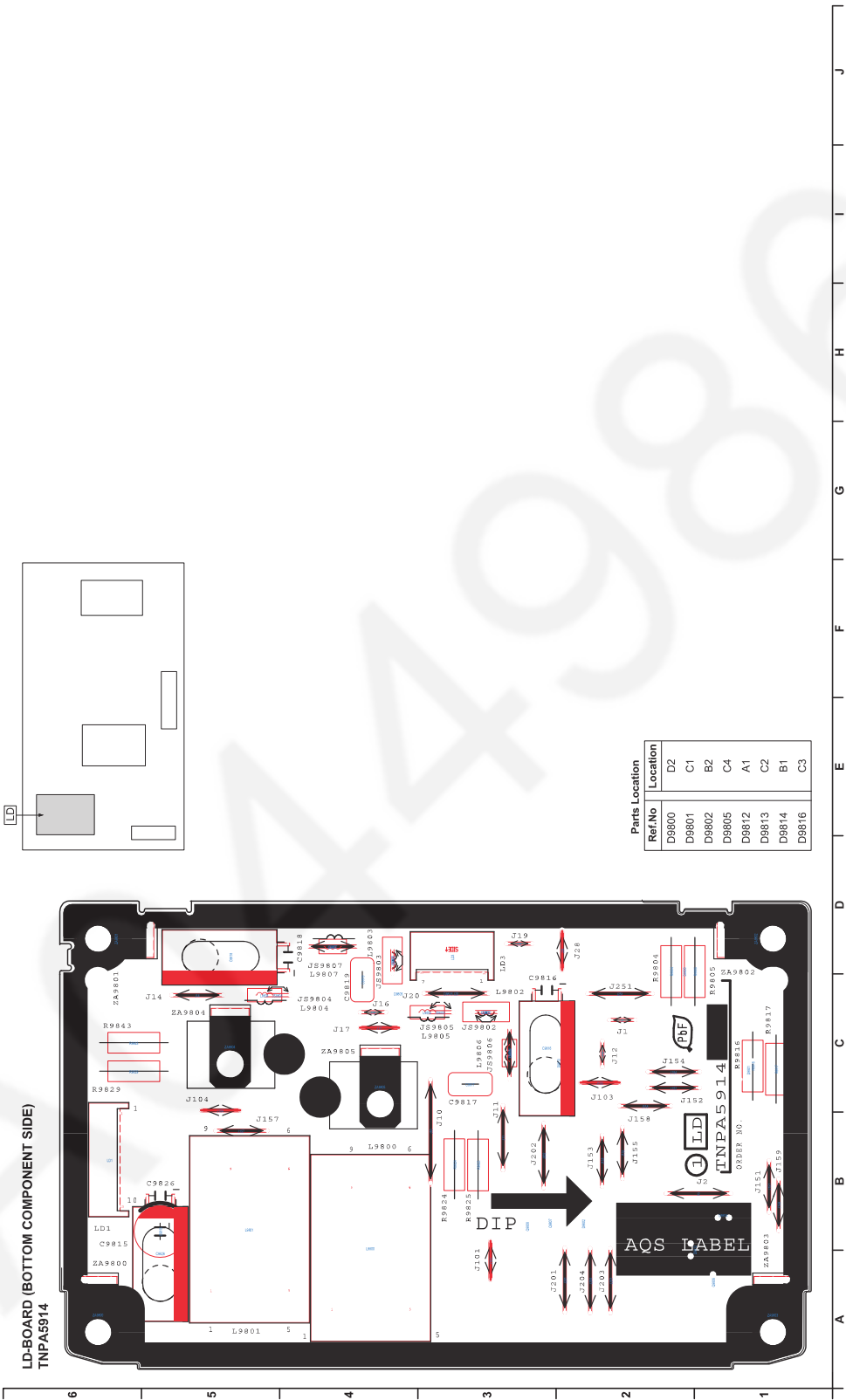
A-BOARD (TOP COMPONENT SIDE)
TNPH1040

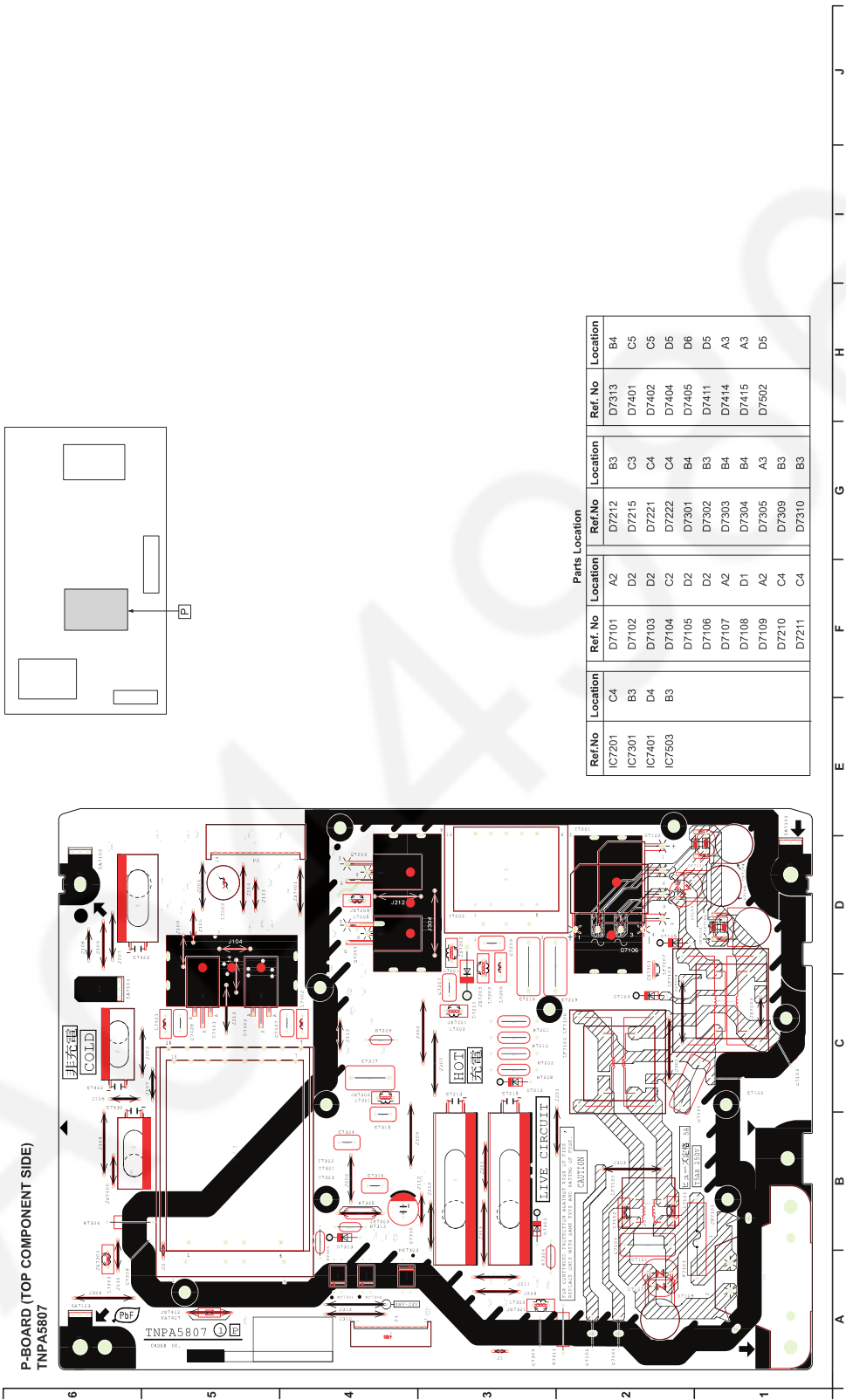
Ref.No		Location	
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IC5202	A4	D2009	A1
IC5300	A5	D2016	A5
IC5702	D3	D2017	A5
IC8750	C2	D3201	B2
IC8800	B3	D4700	C5
IC8801	B3	D4701	C5
IC8802	B3	D4702	C5
IC8900	B5	D4703	C5
IC8100	B5	D4704	C5
IC8101	B4	D4705	C5
IC8200	B5	D4706	C5
IC8200A	B5	D4707	C5
IC8201	B5	D4708	C5
IC8201A	B5	D4709	C4
IC8202	A4	D4710	C4
IC8202A	A4	D4713	C6
IC8703	B5	D4714	C5
IC8704	D5	D4715	C6
IC8705	C6	D4716	C6
IC9980	A6	D4717	C6
D4718	C6	D4719	C6
D4720	C6	D4721	C6
D4722	C6	D4751	C4
D4752	C4	D4753	C4
D4754	C4	D4755	C4
D4756	C4	D4757	C4
D4758	C5	D4759	C4
D5180	A3	D5182	B3
D5201	A5	D5800	B2
D5801	B2	D6750	C2
D6751	C2		

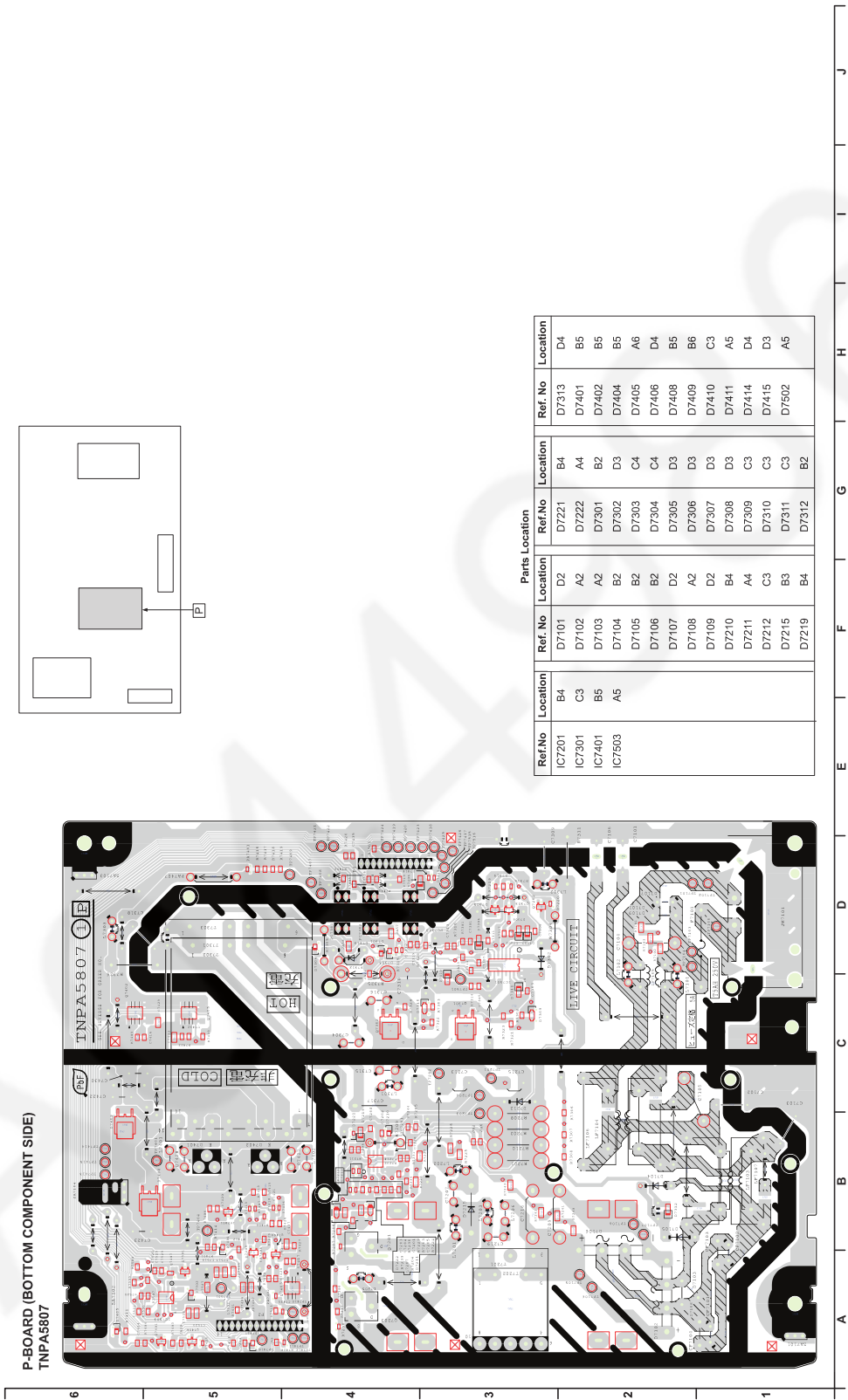






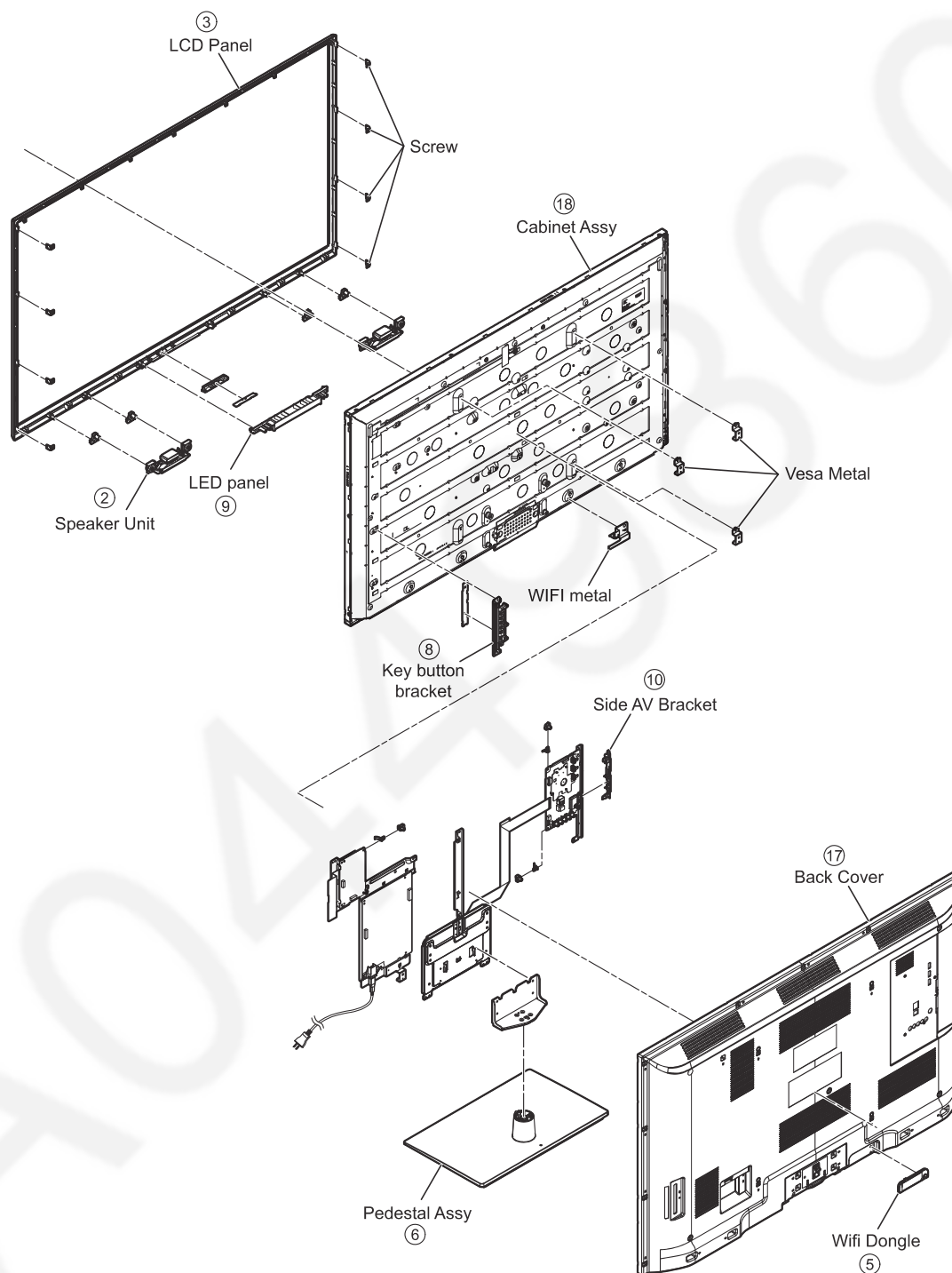






13 Exploded View and Replacement Parts List

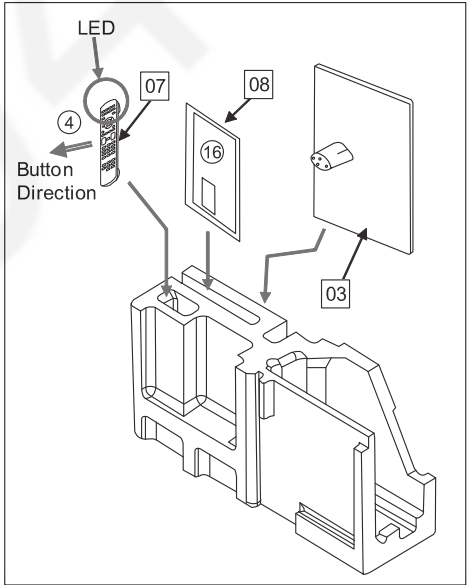
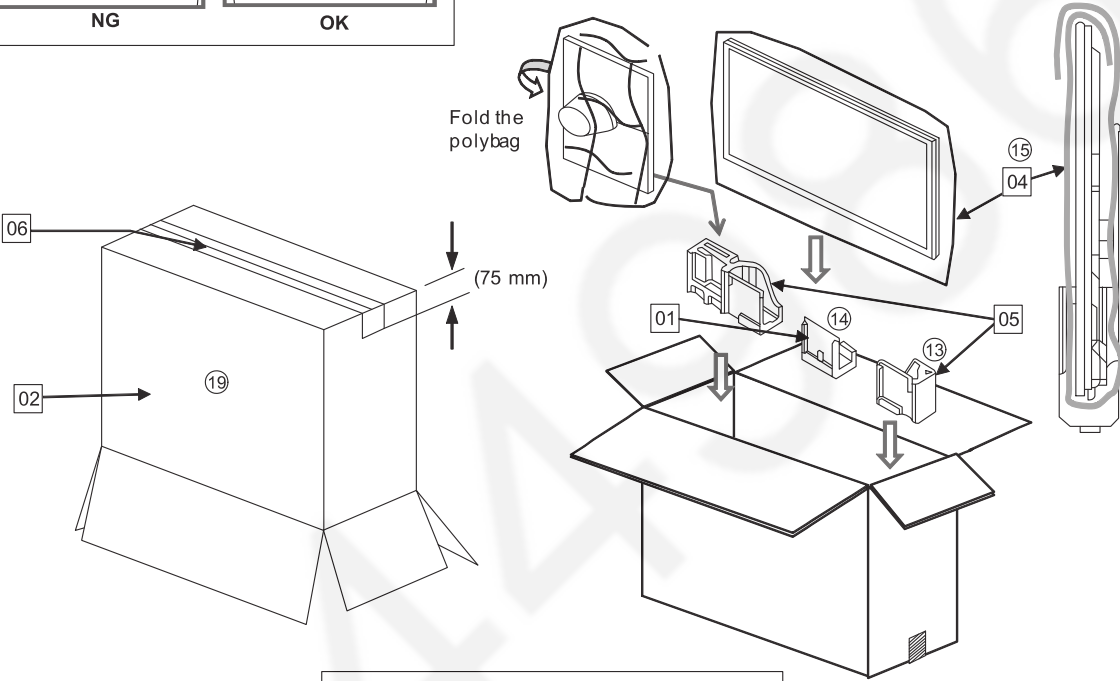
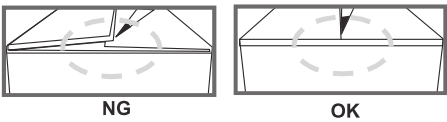
Model No. : TH-L50BL6M Parts Location



Model No. : TH-L50BL6M Packing Exploded View 1

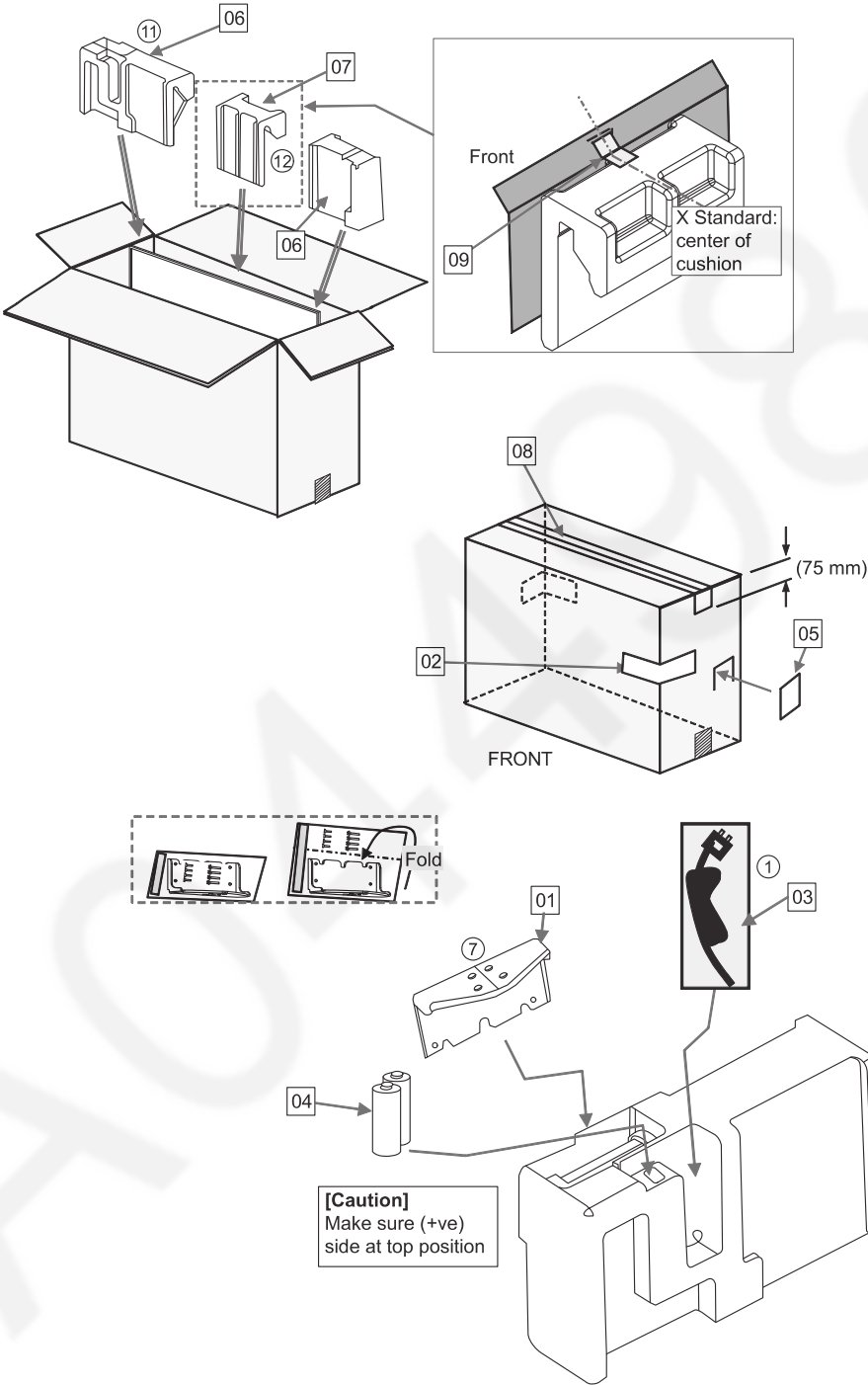
NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	BOTTOM_CENTER_CUSHION	
02	1	PC	PACKING_CASE	
03	1	PC	PEDESTAL_ASSY	
04	1	PC	SET_COVER	
05	1	PC	BOTTOM_CUSHION_ASSY	
06	3.3	MT	PP_TAPE(BTM1.65/TOP1.65)	1650 mm × 1 pc
07	1	PC	REMOTE_TRANSMITTER	
08	1	PC	FAN_BAG_ASSY	

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



Model No. : TH-L50BL6M Packing Exploded View 2

NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	STAND_MTG_ASSY	
02	1	PC	PACKING_CASE_LABEL	
03	1	PC	K2CQ2YY00107 AC_CORD	
04	1	PC	BATTERY	
05	1	PC	LABEL_COMBINATION	
06	1	PC	TOP_CUSHION	
07	1	PC	TOP_CENTER_CUSHION	
08	3.3	MT	PP_TAPE (BTM1.65/TOP1.65)	1650 mm × 1 pc
09	3.3	MT	PP_TAPE (BTM1.65/TOP1.65)	200 mm × 1 pc



Model No. : TH-L50BL6M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITORS						
		C2000	F1G1A105A047	C 1UF 10V		
		C2009	F1G1H1020008	C 1000PF 50V		
		C2012	F1G1E103A059	C 0.01UF 25V		
		C2017	F1G1H1020008	C 1000PF 50V		
		C2023	F1G1C104A077	C 0.1UF 16V		
		C2801	F1G1C1030008	C 0.01UF 16V		
		C2804	F1H1C104A178	C 0.1UF 16V		
		C2807	F1J1A106A043	C 10UF, 10V		
		C2851	F1J1H104A902	C 0.1UF, 50V		
		C2852	F1J1H104A902	C 0.1UF, 50V		
		C3000	F1G1C104A077	C 0.1UF 16V		
		C3009	F1G1H100A834	C 10PF 50V		
		C3010	F1G1H100A834	C 10PF 50V		
		C3011	F1G1H100A834	C 10PF 50V		
		C3012	F1G1H152A830	C 1500PF, 50V		
		C3013	F1G1C1030008	C 0.01UF 16V		
		C3014	F1G1C1030008	C 0.01UF 16V		
		C3015	F1G1C1030008	C 0.01UF 16V		
		C3016	F1G1C1030008	C 0.01UF 16V		
		C3036	F1G1A105A047	C 1UF 10V		
		C3037	F1G1A105A047	C 1UF 10V		
		C3042	F1G1A473A069	C0.047UF, 10V		
		C3180	F1G1C104A077	C 0.1UF 16V		
		C3181	F1G1A105A047	C 1UF 10V		
		C3319	F1H1A225A102	C 2.2UF , 10V		
		C4701	F1G1A105A047	C 1UF 10V		
		C4902	F1J1E105A287	C 1UF, 25V		
		C4904	F1J1E105A287	C 1UF, 25V		
		C4907	F1K1V106A010	C 10UF, 25V		
		C4908	F1J1E105A287	C 1UF, 25V		
		C4910	F1H1E104A161	C 0.1UF, 25V		
		C4911	F1J1E105A287	C 1UF, 25V		
		C4916	F1H1E104A161	C 0.1UF, 25V		
		C4920	F1H1C105A167	C 1UF, 10V		
		C4924	F1H1E104A161	C 0.1UF, 25V		
		C4933	F1H1E104A161	C 0.1UF, 25V		
		C4937	F1J1E224A272	C 0.22UF, 25V		
		C4938	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		
		C5012	F1G1A105A047	C 1UF 10V		
		C5020	F1G1C104A077	C 0.1UF 16V		
		C5021	F1G1A105A047	C 1UF 10V		
		C5022	F1G1A105A047	C 1UF 10V		
		C5026	F1H1E105A153	C 1UF, 16V		
		C5171	F1G1C1030008	C 0.01UF 16V		
		C5181	F1G1H332A830	C 3300PF, 50V		
		C5182	F1G1C104A077	C 0.1UF 16V		
		C5183	F1G1H1020008	C 1000PF 50V		
		C5244	F1G1H1020008	C 1000PF 50V		
		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		

Model No. : TH-L50BL6M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		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	F1G1E333A144	C 0.033UF 25V		
		C5408	F1G1H222A830	C 2200PF, 50V		
		C5440	F1K1V106A010	C 10UF, 25V		
		C5443	F1J1A106A087	C 10UF, 10V		
		C5444	F1J1A106A087	C 10UF, 10V		
		C5445	F1J1A106A087	C 10UF, 10V		
		C5446	F1J1A106A087	C 10UF, 10V		
		C5449	F1G1H152A830	C 1500PF, 50V		
		C5450	F1G1H680A834	C 68 pF 50 V		
		C5453	F1G1E104A145	C 0.1UF, 25V		
		C5717	F1J1A106A087	C 10UF, 10V		
		C5718	F1J1A106A087	C 10UF, 10V		
		C6704	F1J1A106A087	C 10UF, 10V		
		C6707	F1G1C104A077	C 0.1UF 16V		
		C6708	F1J1A106A087	C 10UF, 10V		
		C6710	F1G1C104A077	C 0.1UF 16V		
		C6720	F1G1H220A834	C 22PF, 50V		
		C6721	F1G1H220A834	C 22PF, 50V		
		C6722	F1G1C104A077	C 0.1UF 16V		
		C6723	F1G1H220A834	C 22PF, 50V		
		C6724	F1G1H220A834	C 22PF, 50V		
		C6728	F1G1H102A834	C 1000PF 50V		
		C6732	F1G1C104A077	C 0.1UF 16V		
		C6736	F1G1H101A834	C 100PF 50V		
		C6737	F1G1H101A834	C 100PF 50V		
		C6745	F1G1H102A834	C 1000PF 50V		
		C6750	F1G1H471A834	C 470PF, 50V		
		C6751	F1G1H471A834	C 470PF, 50V		
		C6752	F1G1H101A834	C 100PF 50V		
		C6753	F1G1H5R0A831	C 5.0UF, 25V		
		C6754	F1G1H5R0A831	C 5.0UF, 25V		
		C6757	F1G1H101A834	C 100PF 50V		
		C6758	F1G1H181A834	C 180PF , 50V		
		C6759	F1G1H181A834	C 180PF , 50V		
		C6760	F1G1H102A834	C 1000PF 50V		
		C6762	F1G1H102A834	C 1000PF 50V		
		C6764	F1G1C104A077	C 0.1UF 16V		
		C6766	F1G1H1020008	C 1000PF 50V		
		C6767	F1G1H1020008	C 1000PF 50V		
		C6768	F1G1H1020008	C 1000PF 50V		
		C6769	F1G1E103A059	C 0.01UF 25V		
		C6770	F1G1E103A059	C 0.01UF 25V		
		C6773	F1G1H1020008	C 1000PF 50V		
		C6774	F1G1C104A077	C 0.1UF 16V		
		C6775	F1G1C104A077	C 0.1UF 16V		
		C6777	F1G0J105A049	C 1UF , 6.3V		
	⚠	C7102	F1AAF471A019	C 470PF , 240V		
	⚠	C7103	F1AAF471A019	C 470PF , 240V		
	⚠	C7104	F0CAF2240010	C 0.22UF, 240V		
	⚠	C7105	F0CAF2240010	C 0.22UF, 240V		
		C7201	F1H1H102B052	C 1000PF, 50V		
		C7202	F1J1H222A911	C 2200pF, 50V		
		C7203	F1H1H104B047	C 0.1UF, 50V		
		C7204	F1H1H104B047	C 0.1UF, 50V		
		C7205	F1J1H102A909	C 1000pF, 50V		
		C7206	F1J1E475A257	C 4.7UF, 25V		
		C7207	F1A3A221A060	C 220PF 1KV		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7208	F1J1H104A902	C 0.1UF, 50V		
		C7209	ECWFD2W155KC	C 1.5UF , 240V		
		C7213	F2A2W6800013	C 68UF , 450V		
		C7214	F1J1H103A900	C 0.01UF, 50V		
		C7215	F2A2W6800013	C 1.5UF , 240V		
		C7216	ECWFD2W155KC	C 68UF , 450V		
		C7220	F1J1H103A900	C 0.01UF, 50V		
		C7302	F1J1H473A900	C 0.047UF, 16V		
		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		
		C7316	F1A3A471A060	C 470PF 1KV		
		C7317	ECWH8223HAC	C 0.022UF, Z, 800V		
		C7318	F1AAF471A019	C 470PF , 240V		
		C7416	F1J1C475A225	C 4.7UF, 10V		
		C7417	F1J1C474A238	C 0.47UF , 240V		
		C7418	F1H1H104B047	C 0.1UF, 50V		
		C7421	F1H1H104B047	C 0.1UF, 50V		
		C7422	F2A1V6810043	C 680UF , 35V		
		C7423	F2A1E222B927	C 2200UF, 25V		
		C7429	F1K1V106A010	C 10UF, 25V		
		C7430	F2A1V6810043	C 680UF , 35V		
		C7432	F1J1C475A225	C 4.7UF, 10V		
		C7433	F1K1V106A010	C 10UF, 25V		
		C7434	F1J1C475A225	C 4.7UF, 10V		
		C7517	F1K1V106A010	C 10UF, 25V		
		C7518	F1K1V106A010	C 10UF, 25V		
		C7520	F1J1E105A287	C 1UF, 25V		
		C7521	F1J1E105A287	C 1UF, 25V		
		C7522	F1K1V106A010	C 10UF, 25V		
		C7523	F1K1V106A010	C 10UF, 25V		
		C7524	F1J1H472A900	C 4700PF, 50V		
		C7525	F1J1H223A900	C 0.022UF, 50V		
		C7529	F1J1H104A902	C 0.1UF, 50V		
		C8002	F1G1C104A077	C 0.1UF 16V		
		C8007	F1J0G2260001	C 22 UF 4 V		
		C8008	F1G1C104A077	C 0.1UF 16V		
		C8012	F1G1C104A077	C 0.1UF 16V		
		C8013	F1G1C104A077	C 0.1UF 16V		
		C8014	F1J1A106A087	C 10UF, 10V		
		C8015	F1G1A105A047	C 1UF 10V		
		C8016	F1G1C104A077	C 0.1UF 16V		
		C8018	F1G1C104A077	C 0.1UF 16V		
		C8019	F1J0G2260001	C 22 UF 4 V		
		C8021	F1G1A105A047	C 1UF 10V		
		C8022	F1G1C104A077	C 0.1UF 16V		
		C8023	F1G1C104A077	C 0.1UF 16V		
		C8024	F1G1C104A077	C 0.1UF 16V		
		C8025	F1G1C104A077	C 0.1UF 16V		
		C8027	F1G1C104A077	C 0.1UF 16V		
		C8030	F1G1C104A077	C 0.1UF 16V		
		C8031	F1G1C104A077	C 0.1UF 16V		
		C8032	F1G1A105A047	C 1UF 10V		
		C8033	F1H0J4750004	C 4.7UF, 16V		
		C8034	F1G1C104A077	C 0.1UF 16V		
		C8036	F1G1C104A077	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8038	F1G1C104A077	C 0.1UF 16V		
		C8039	F1G1A105A047	C 1UF 10V		
		C8040	F1G1A105A047	C 1UF 10V		
		C8041	F1J0G2260001	C 22 UF 4 V		
		C8042	F1G1C104A077	C 0.1UF 16V		
		C8044	F1G1C104A077	C 0.1UF 16V		
		C8046	F1G1C104A077	C 0.1UF 16V		
		C8048	F1J0G2260001	C 22 UF 4 V		
		C8049	F1G1C104A077	C 0.1UF 16V		
		C8050	F1G1C104A077	C 0.1UF 16V		
		C8051	F1G1C104A077	C 0.1UF 16V		
		C8052	F1J0G2260001	C 22 UF 4 V		
		C8100	F1K1V106A010	C 10UF, 25V		
		C8102	F1G1C104A077	C 0.1UF 16V		
		C8103	F1G1C473A048	C 0.047UF, 16V		
		C8105	F1G1E332A144	C 3300PF, 25V		
		C8107	F1J0G2260001	C 22 UF 4 V		
		C8108	F1J0G2260001	C 22 UF 4 V		
		C8109	F1H1E105A153	C 1UF, 16V		
		C8110	F1G1C183A146	C 0.018UF, 16V		
		C8111	F1G1C104A077	C 0.1UF 16V		
		C8112	F1K1V106A010	C 10UF, 25V		
		C8114	F1J0G2260001	C 22 UF 4 V		
		C8116	F1J0G2260001	C 22 UF 4 V		
		C8117	F1H1E104A161	C 0.1UF, 25V		
		C8200	F1G1C104A077	C 0.1UF 16V		
		C8201	F1G1C104A077	C 0.1UF 16V		
		C8202	F1G1C104A077	C 0.1UF 16V		
		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	F1J1A106A087	C 10UF, 10V		
		C8208	F1G1C104A077	C 0.1UF 16V		
		C8213	F1G1C104A077	C 0.1UF 16V		
		C8215	F1G1C104A077	C 0.1UF 16V		
		C8216	F1J1A106A087	C 10UF, 10V		
		C8217	F1G1C104A077	C 0.1UF 16V		
		C8218	F1G1C104A077	C 0.1UF 16V		
		C8219	F1G1C104A077	C 0.1UF 16V		
		C8220	F1G1C104A077	C 0.1UF 16V		
		C8222	F1G1C104A077	C 0.1UF 16V		
		C8225	F1G1C104A077	C 0.1UF 16V		
		C8230	F1G1C104A077	C 0.1UF 16V		
		C8232	F1G1C104A077	C 0.1UF 16V		
		C8255	F1J0G2260001	C 22 UF 4 V		
		C8300	F1G1H8R0A831	C 8 PF, 50V		
		C8301	F1G1H8R0A831	C 8 PF, 50V		
		C8601	F1G1C1030008	C 0.01UF 16V		
		C8602	F1G1C1030008	C 0.01UF 16V		
		C8613	F1J1A106A087	C 10UF, 10V		
		C8615	F1G1C104A077	C 0.1UF 16V		
		C8642	F1J1A106A087	C 10UF, 10V		
		C8643	F1G1C104A077	C 0.1UF 16V		
		C8680	EEH0J221UP	E 220UF, 6.3V		
		C8681	EEH0J221UP	E 220UF, 6.3V		
		C8683	F1G1C104A077	C 0.1UF 16V		
		C8688	F1G1C104A077	C 0.1UF 16V		
		C8689	F1J1A106A087	C 10UF, 10V		
		C8690	F1G1C104A077	C 0.1UF 16V		
		C8692	F1J1A106A087	C 10UF, 10V		
		C8693	F1G1C104A077	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8760	F1G1C104A077	C 0.1UF 16V		
		C8764	F1G1A105A047	C 1UF 10V		
		C8765	F1H0J4750004	C 4.7UF, 16V		
		C8850	F1H0J4750004	C 4.7UF, 16V		
		C8851	F1H0J4750004	C 4.7UF, 16V		
		C8902	F1G1C104A077	C 0.1UF 16V		
		C8903	F1G1C104A077	C 0.1UF 16V		
		C9801	F1J1E104A271	C 0.1UF, 25V		
		C9804	F1J1E104A271	C 0.1UF, 25V		
		C9806	F1J1E105A287	C 1UF, 25V		
		C9807	F1J1H222A911	C 2200pF, 50V		
		C9808	F1J1H222A911	C 2200pF, 50V		
		C9809	F1J1H474A918	C 0.47UF, 50V		
		C9810	F1J1H222A911	C 2200PF, 50V		
		C9811	F1J1H474A918	C 0.47UF, 50V		
		C9812	F1J1H222A911	C 2200PF, 50V		
		C9813	F1J1H103A900	C 0.01UF, 50V		
		C9816	F2A2C470A222	C 47UF, 160V		
		C9817	F1A3A471A060	C 470PF, 1KV		
		C9818	F2A2C470A222	C 47UF, 160V		
		C9819	F1A3A471A060	C 470PF, 1KV		
		C9820	F1J2E1020002	C 1000PF, 250V		
		C9822	F1J2E1020002	C 1000PF, 250V		
		C9826	F2A1V6810043	C 680UF, 35V		
DIODES						
		D3021	DZ2J140M0L	DIODE		
		D3022	DZ2J140M0L	DIODE		
		D3023	DZ2J140M0L	DIODE		
		D3024	DZ2J140M0L	DIODE		
		D3025	DZ2J140M0L	DIODE		
		D3026	DZ2J140M0L	DIODE		
		D3201	K7AAAY000016	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		
		D5208	B0ADCK000001	DIODE		
		D6750	J0ZZB0000175	DIODE		
		D6751	B0ZBZ0000203	DIODE		
		D7101	ERZE08C621CD	SURGE ABSORBER		
		D7102	B0EBNT000027	DIODE		
		D7104	B0EAKR000022	DIODE		
		D7105	B0EAKR000022	DIODE		
		D7211	B0JCMG000043	DIODE		
		D7215	B0HAPR000013	DIODE		
		D7221	B0ACCD000008	DIODE		
		D7301	DZ2J039M0L	DIODE		
		D7302	B0HAGQ000001	DIODE		
		D7303	DZ2J039M0L	DIODE		
		D7305	B0ADCK000001	DIODE		
		D7306	B0BC027A0336	DIODE		
		D7307	B0BC027A0336	DIODE		
		D7308	B0BC027A0336	DIODE		
		D7309	B0JCMG000043	DIODE		
		D7310	B0JCMG000043	DIODE		
		D7311	B0BC027A0336	DIODE		
		D7313	B0HAGQ000001	DIODE		
		D7401	B0JBSL000065	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D7402	B0JBSL000065	DIODE		
		D7404	DA2J10100L	DIODE		
		D7405	DA2J10100L	DIODE		
		D7408	B0JDSG000009	DIODE		
		D7409	B0JDSG000009	DIODE		
		D7411	DA2J10100L	DIODE		
		D7502	B0JCPE000051	DIODE		
		D8716	B0ACGM000001	DIODE		
		D9800	B0ECKM000038	DIODE		
		D9801	B0ECKM000038	DIODE		
		D9802	B0ADCK000001	DIODE		
		D9805	DA2JF2300L	DIODE		
		D9806	B0FCAM000004	DIODE		
		D9807	B0FCAM000004	DIODE		
		D9812	DZ2J160M0L	DIODE		
		D9813	B0JCDE000006	DIODE		
		D9814	B0JCDE000006	DIODE		
		D9815	B0BC4R7A0507	DIODE		
		D9816	DA2JF2300L	DIODE		
INTEGRATED CIRCUITS						
		IC4900	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5203	C0EBD0000300	IC		
		IC5300	C0DBAYY01648	IC		
		IC5704	C0DBEYY00102	IC		
		IC6750	C1AB00004053	IC		
		IC7201	C0DBBY000058	IC		
		IC7301	C0DBAYY01329	IC		
		IC7401	C0DBZYY00614	IC		
		IC7503	C0DBAYY01599	IC		
		IC8000	C1AB00004073	IC		
		IC8100	C0DBAYY01644	IC		
		IC8101	C0DBAYY01692	IC		
		IC8200	C3ABUY000020	IC		
		IC8201	C3ABUY000020	IC		
		IC8602	C0DBZYY00541	IC		
		IC8603	C0DBZYY00541	IC		
		IC8605	C0DBZYY00541	IC		
		IC8704	C0DBAYY01647	IC		
		IC8705	C0DBAYY01299	IC		
		IC8706	C0DBGYY01682	IC		
		IC8900	TVRT271	ROM IC (C3FBVY000034)		
		IC9800	C1ZBZ0004953	IC		
COILS						
		L2000	J0JHC0000042	COIL		
		L4006	J0ZZB0000147	COIL		
		L4007	J0ZZB0000147	COIL		
		L4008	J0ZZB0000147	COIL		
		L4009	J0ZZB0000147	COIL		
		L4010	J0ZZB0000147	COIL		
		L4011	J0ZZB0000147	COIL		
		L4901	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		
		L5201	J0JYC0000464	BEAD CORE		
		L5300	G1C220MA0445	INDUCTOR		
		L5400	G1C4R7ZA0311	INDUCTOR		
		L5440	G1C4R7MA0445	INDUCTOR		
		L6704	J0JYC0000464	BEAD CORE		
		L6706	J0JYC0000464	BEAD CORE		
		L6761	J0JYC0000464	BEAD CORE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L6762	J0JYC0000464	BEAD CORE		
		L6763	G1CR27JA0097	COIL		
		L6765	G1C82NJ00010	COIL		
		L6772	G1CR27JA0097	COIL		
		L6773	G1CR27JA0097	COIL		
		L6774	G1CR27JA0097	COIL		
		L6776	G1CR27JA0097	COIL		
		L6777	G1CR22JA0097	COIL		
		L6778	G1CR22JA0097	COIL		
		L7201	EXCELD35V	CORE		
		L7207	J0JYC0000344	COIL		
		L7303	EXCELD35V	CORE		
		L7502	G0C270MA0049	INDUCTOR		
		L8100	G1C3R3MA0464	INDUCTOR		
		L8101	G1C1R5ZA0311	COIL		
		L8602	J0ZZB0000142	FILTER		
		L8605	J0JYC0000464	BEAD CORE		
		L8615	J0ZZB0000142	FILTER		
		L8616	J0ZZB0000142	FILTER		
		L8617	J0JYC0000464	BEAD CORE		
		L8618	J0JYC0000464	BEAD CORE		
		L9800	G0C160J00001	INDUCTOR		
		L9801	G0C160J00001	INDUCTOR		
		L9802	EXCELD35V	CORE		
		L9803	EXCELD35V	CORE		
		L9804	J0JKA0000022	BEAD CORE		
		L9805	J0JKA0000022	BEAD CORE		
		L9806	EXCELSA26T	BEAD CORE		
		L9807	EXCELSA26T	BEAD CORE		
		L9810	J0JHC0000075	BEAD COIL		
		L9811	J0JHC0000075	BEAD COIL		
TRANSISTORS						
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q4700	B1ABCF000231	TRANSISTOR		
		Q4701	B1ABCF000231	TRANSISTOR		
		Q4750	B1ABCF000231	TRANSISTOR		
		Q5140	B1ABCE000015	TRANSISTOR		
		Q5141	B1ABCE000015	TRANSISTOR		
		Q5142	B1ADCE000022	TRANSISTOR		
		Q5143	B1ABCE000015	TRANSISTOR		
		Q7201	B1CERR000096	TRANSISTOR		
		Q7202	B1ADCE000022	TRANSISTOR		
		Q7301	B1CFRR000023	TRANSISTOR		
		Q7302	B1CFRR000023	TRANSISTOR		
		Q7303	B1ADCE000022	TRANSISTOR		
		Q7401	B1ABCF000231	TRANSISTOR		
		Q7402	B1CHRE000015	TRANSISTOR		
		Q7403	B1CHRE000015	TRANSISTOR		
		Q7405	B1CHRE000015	TRANSISTOR		
		Q7407	B1CBHG000002	TRANSISTOR		
		Q7501	B1ABGE000015	TRANSISTOR		
		Q8750	B1ABBE000003	TRANSISTOR		
		Q8751	B1ABBE000003	TRANSISTOR		
		Q9800	B1CFML000007	TRANSISTOR		
		Q9801	B1CFML000007	TRANSISTOR		
		Q9802	B1CFRM000028	TRANSISTOR		
		Q9803	B1CFRM000028	TRANSISTOR		
		Q9804	B1CFRM000028	TRANSISTOR		
		Q9805	B1CFRM000028	TRANSISTOR		
		Q9806	B1ABGJ000007	TRANSISTOR		
		Q9807	B1ABBE000003	TRANSISTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		Q9808	B1ABBE000003	TRANSISTOR		
		Q9809	B1ABPF000011	TRANSISTOR		
		Q9810	B1ABPF000011	TRANSISTOR		
RESISTORS						
		R0900	D0GA473JA039	M 47KOHM J. 1/10W		
		R0901	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0902	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0903	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0904	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0905	D0GA330JA023	M 33 OHM, J,1/16W		
		R0906	D0GA330JA023	M 33 OHM, J,1/16W		
		R0908	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0911	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R0926	D0GA473JA039	M 47KOHM J. 1/10W		
		R0927	D0GA473JA039	M 47KOHM J. 1/10W		
		R0928	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0929	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0930	D0GAR00J0005	M 0 OHM, 1/16W		
		R0931	D0GAR00J0005	M 0 OHM, 1/16W		
		R0935	D0GA473JA039	M 47KOHM J. 1/10W		
		R2003	D0GAR00J0005	M 0 OHM, 1/16W		
		R2004	D0GA103JA039	M 10KOHM,J,1/16W		
		R2007	D0GA680JA023	M 68 OHM, J,1/16W		
		R2008	D0GA153JA023	M 15K OHM J 1/16W		
		R2009	D1BA1002A023	M 10KOHM,F,1/16W		
		R2010	D1BA7151A023	M 7.15KOHM, F 1/16 W		
		R2011	D0GA102JA039	M 1KOHM .J. 1/16W		
		R2012	D0GA473JA039	M 47KOHM J. 1/10W		
		R2013	D0GAR00J0005	M 0 OHM, 1/16W		
		R2016	D0GAR00J0005	M 0 OHM, 1/16W		
		R2034	D0GAR00J0005	M 0 OHM, 1/16W		
		R2040	D0GA473JA039	M 47KOHM J. 1/10W		
		R2051	D0GAR00J0005	M 0 OHM, 1/16W		
		R2056	D0GA102JA039	M 1KOHM .J. 1/16W		
		R2058	D0GA473JA039	M 47KOHM J. 1/10W		
		R2059	D0GA103JA039	M 10KOHM,J,1/16W		
		R2060	D0GA473JA039	M 47KOHM J. 1/10W		
		R2061	D0GA223JA023	M 22K OHM J 1/16W		
		R2062	D0GAR00J0005	M 0 OHM, 1/16W		
		R2067	D0GAR00J0005	M 0 OHM, 1/16W		
		R2713	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R2714	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R2715	D0GA680JA023	M 68 OHM, J,1/16W		
		R2807	D0GAR00J0005	M 0 OHM, 1/16W		
		R2820	D0GA470JA023	M 47 OHM, J,1/16W		
		R2821	D0GA563JA023	M 56KOHM, J,0.063W		
		R2822	D0GA184JA023	M 180KOHM J.1/16W		
		R2823	D1BA1821A023	M 1.82KOHM , 1/10W		
		R2824	D1BA6800A023	M 680OHM , 1/16W		
		R2852	D1BD1911A177	M 1.91KOHM ,J, 1/16W		
		R2853	D1BD3091A177	M 3.09KOHM ,J, 1/16W		
		R2854	D1BD6041A076	M 6.04KOHM ,J, 1/16W		
		R2855	D1BD1692A177	M 16.9KOHM , 1/16W		
		R3008	D1BD18R0A179	M 18OHM , 1/16W		
		R3009	D1BD18R0A179	M 18OHM , 1/16W		
		R3010	D1BD18R0A179	M 18OHM , 1/16W		
		R3011	D0GA100JA023	M 10 OHM, J,1/16W		
		R3012	D1BD56R0A179	M 56OHM, J, 1/16W		
		R3013	D1BD56R0A179	M 56OHM, J, 1/16W		
		R3014	D1BD56R0A179	M 56OHM, J, 1/16W		
		R3015	D1H81014A042	M 100OHM , 1/16W		
		R3038	D0GA473JA039	M 47KOHM J. 1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R3053	D0GA333JA023	M 33KOHM,J,1/16W		
		R3054	D0GA333JA023	M 33KOHM,J,1/16W		
		R3056	D0GA473JA039	M 47KOHM J. 1/10W		
		R3058	D0GA101JA039	M 100OHM ,J, 1/16W		
		R3063	D0GA103JA039	M 10KOHM,J,1/16W		
		R3064	D0GAR00J0005	M 0 OHM, 1/16W		
		R3121	D0GA101JA039	M 100OHM ,J, 1/16W		
		R3325	D0GA473JA039	M 47KOHM J. 1/10W		
		R4004	D0GA243JA023	M 24K OHM J 0.063W		
		R4006	D0GAR00J0005	M 0 OHM, 1/16W		
		R4700	D0GA103JA039	M 10KOHM,J,1/16W		
		R4701	D0GA103JA039	M 10KOHM,J,1/16W		
		R4702	D0GA103JA039	M 10KOHM,J,1/16W		
		R4703	D0GA103JA039	M 10KOHM,J,1/16W		
		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 10KOHM,J,1/16W		
		R4712	D0GA103JA039	M 10KOHM,J,1/16W		
		R4713	D0GA103JA039	M 10KOHM,J,1/16W		
		R4714	D0GA473JA039	M 47KOHM J. 1/10W		
		R4715	D0GA102JA039	M 1KOHM .J. 1/16W		
		R4717	D0GA473JA039	M 47KOHM J. 1/10W		
		R4718	D0GA473JA039	M 47KOHM J. 1/10W		
		R4720	D0GA473JA039	M 47KOHM J. 1/10W		
		R4721	D0GA473JA039	M 47KOHM J. 1/10W		
		R4722	D1BA1800A023	M 180OHM J.1/16W		
		R4723	D1BA82R0A023	M 82OHM ,J, 1/10W		
		R4725	D0GA680JA023	M 68 OHM, J,1/16W		
		R4726	D0GA680JA023	M 68 OHM, J,1/16W		
		R4751	D0GA103JA039	M 10KOHM,J,1/16W		
		R4752	D0GA103JA039	M 10KOHM,J,1/16W		
		R4753	D0GA103JA039	M 10KOHM,J,1/16W		
		R4754	D0GA473JA039	M 47KOHM J. 1/10W		
		R4755	D0GA102JA039	M 1KOHM .J. 1/16W		
		R4757	D0GA473JA039	M 47KOHM J. 1/10W		
		R4758	D0GA473JA039	M 47KOHM J. 1/10W		
		R4900	D0GA103JA039	M 10KOHM,J,1/16W		
		R4901	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4902	D1H86804A042	M 68OHM , 1/16W		
		R4903	D0GA102JA039	M 1KOHM .J. 1/16W		
		R4904	D0GA102JA039	M 1KOHM .J. 1/16W		
		R4910	D0GA473JA039	M 47KOHM J. 1/10W		
		R5002	D0GA683JA023	M 68KOHM, J,1/16W		
		R5003	D0GA103JA039	M 10KOHM,J,1/16W		
		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		
		R5140	D0GA102JA039	M 1KOHM .J. 1/16W		
		R5141	D0GA333JA023	M 33KOHM,J,1/16W		
		R5143	D0GA102JA039	M 1KOHM .J. 1/16W		
		R5144	D0GA103JA039	M 10KOHM,J,1/16W		
		R5171	D0GA103JA039	M 10KOHM,J,1/16W		
		R5172	D0GA102JA039	M 1KOHM .J. 1/16W		
		R5175	D0GA680JA023	M 68 OHM, J,1/16W		
		R5176	D0GA333JA023	M 33KOHM,J,1/16W		
		R5177	D0GA473JA039	M 47KOHM J. 1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R5178	D0GA473JA039	M 47KOHM J. 1/10W		
		R5179	D0GA102JA039	M 1KOHM .J. 1/16W		
		R5203	D0GA473JA039	M 47KOHM J. 1/10W		
		R5204	D0GA822JA023	M8.2KOHM, J,1/16W		
		R5207	D0GA333JA023	M 33KOHM,J,1/16W		
		R5215	D0GA472JA023	M 4.7KOHM, J,1/16W		
		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		
		R5317	D0GA103JA039	M 10KOHM,J,1/16W		
		R5318	D1BA3902A023	M 39KOHM , 1/16W		
		R5400	D0GA220JA023	M22 OHM, J.1/16 W		
		R5401	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5402	D0GB911ZA037	M 910 OHM,1/10W		
		R5403	D1BB2871A106	M 2.87 KOHM,F.1/10 W		
		R5442	D1BB1241A196	M 1.24KOHM , 1/16W		
		R5443	D1BB6801A195	M 6.8KOHM , 1/16W		
		R5446	D0GDR00J0004	M 0 OHM, 1/8W		
		R5447	D1BA1502A023	M 15K OHM J 1/16W		
		R5731	D1BA1200A023	M 120 OHM,F.1/16 W		
		R5732	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R6717	D0GBR00J0004	M 0 OHM J 1/10W		
		R6725	D0GAR00J0005	M 0 OHM, 1/16W		
		R6728	D0GAR00J0005	M 0 OHM, 1/16W		
		R6729	D0GAR00J0005	M 0 OHM, 1/16W		
		R6730	D0GA103JA039	M 10KOHM,J,1/16W		
		R6743	D0GA681JA023	M680 OHM, J,1/16W		
		R6744	D0GA681JA023	M680 OHM, J,1/16W		
		R6750	D0GA101JA039	M 100OHM ,J, 1/16W		
		R6751	D0GA103JA039	M 10KOHM,J,1/16W		
		R6752	D0GAR00J0005	M 0 OHM, 1/16W		
		R6753	D0GA101JA039	M 100OHM ,J, 1/16W		
		R6757	D0GA101JA039	M 100OHM ,J, 1/16W		
		R6758	D0GA101JA039	M 100OHM ,J, 1/16W		
		R6759	D0GA102JA039	M 1KOHM .J. 1/16W		
		R6760	D0GA332JA023	M 3.3KOHM, J,1/16W		
	⚠	R7101	D0GF105JA048	M 1M OHM. 1/4W		
	⚠	R7102	D0GF105JA048	M 1M OHM. 1/4W		
	⚠	R7103	D0GF105JA048	M 1M OHM. 1/4W		
	⚠	R7201	ERX1SJR22V	0.22 OHM , 1W		
	⚠	R7202	ERX1SJR22V	0.22 OHM , 1W		
		R7203	D0GD563JA052	M 56KOHM,J,1/8W		
		R7204	D0GF101JA047	M 100 OHM,J,1/3W		
		R7205	D0GD470JA052	M 47 OHM,J,1/8W		
		R7206	D0GD4R7JA059	M 4.7 OHM,J,1/4W		
		R7207	D0GB104JA065	M 100KOHM J 1/10W		
		R7208	ERX1SJR22V	0.22 OHM , 1W		
		R7209	D0AF2R2JA112	C 2.2 OHM, J,1/2W		
		R7211	D0GD104JA052	M 100KOHM,J,1/8W		
		R7212	D0GB683JA065	M 68KOHM J 1/10W		
		R7219	D0GB513JA065	M 51KOHM .J. 1/10W		
		R7220	D0GB223JA065	M 22KOHM,J,1/10W		
		R7224	D1BD8203A177	M 820KOHM , 1/10W		
		R7225	D1BF1504A073	M 1.5MOHM , 1/10W		
		R7226	D1BF1504A073	M 1.5MOHM , 1/10W		
		R7227	D1BF1504A073	M 1.5MOHM , 1/10W		
		R7228	D1BF1504A073	M 1.5MOHM , 1/10W		
		R7229	D1BD2003A076	M 200KOHM , 1/10W		
		R7230	D1BD4422A177	M 44.2KOHM , 1/16W		
		R7231	D1BD4303A177	M 430KOHM , 1/16W		
		R7232	D1BD3603A177	M 360KOHM , 1/16W		
		R7234	D1BD8203A177	M 820KOHM , 1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		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	D0AF121JA112	C 120OHM ,J, 1/2W		
		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	C 15KOHM ,J, 1/2W		
		R7314	D0GD103JA052	M 10KOHM,J,1/8W		
		R7315	D0GB222JA065	M 2.2KOHM,J,1/10W		
		R7317	D0GD223JA052	M 22KOHM,J,1/8W		
		R7318	D0GB473JA065	M 47KOHM J. 1/10W		
		R7319	D0GD473JA052	M 47KOHM,J,1/8W		
		R7320	D0GD333JA052	M 33 KOHM,J,1/8W		
		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	ERX1SJ1R0V	M 1OHM ,J, 1/8W		
		R7326	D0B1106JA033	M 10MOHM J 1W		
		R7401	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7402	D0GD103JA052	M 10KOHM,J,1/8W		
		R7403	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7404	D0GD104JA052	M 100KOHM,J,1/8W		
		R7405	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7406	D1BD3301A180	M 3.3KOHM, J,1/16W		
		R7407	D0GB103JA065	M 10K OHM J 1/10W		
		R7408	D1BD4302A180	M 43KOHM , 1/16W		
		R7409	D0GD224JA052	M 220KOHM,J,1/8W		
		R7410	D0GD153JA052	M 15KOHM,J,1/8W		
		R7411	D0GD334JA052	M 330KOHM,J,1/8W		
		R7412	D0GD153JA052	M 15KOHM,J,1/8W		
		R7413	D1BD5603A066	M 560KOHM , 1/16W		
		R7415	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7416	D0GD103JA052	M 10KOHM,J,1/8W		
		R7417	D0GD103JA052	M 10KOHM,J,1/8W		
		R7418	D0GD103JA052	M 10KOHM,J,1/8W		
		R7419	D0GD103JA052	M 10KOHM,J,1/8W		
		R7420	D0GD473JA052	M 47KOHM,J,1/8W		
		R7421	D0GD124JA052	M 120KOHM,J,1/8W		
		R7422	D0GD224JA052	M 220KOHM,J,1/8W		
		R7423	D0GD334JA052	M 330KOHM,J,1/8W		
		R7505	D0GD473JA052	M 47KOHM,J,1/8W		
		R7506	D1BD1203A076	M 120KOHM,J,1/8W		
		R7507	D1BD3652A177	M 36.5KOHM , 1/16W		
		R7508	D0GD334JA052	M 330KOHM,J,1/8W		
		R8005	D0GBR00J0004	M 0 OHM J 1/10W		
		R8101	D1BA4701A023	M 4.7KOHM,F 1/16 W		
		R8102	D1BB2002A195	M 20KOHM , 1/10W		
		R8103	D1BB1802A195	M 18KOHM , 1/10W		
		R8104	D1BB1801A195	M 1.8KOHM , 1/10W		
		R8105	D1BB1051A196	M 1.05KOHM , 1/10W		
		R8203	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8204	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8206	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8207	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8217	D0GA101JA039	M 100OHM ,J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8218	D0GA101JA039	M 100OHM ,J, 1/16W		
		R8219	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8220	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8230	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8231	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8232	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8233	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8234	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8235	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8236	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8237	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R8300	D0GA221JA023	M220 OHM, J.1/16 W		
		R8411	D0GA103JA039	M 10KOHM,J,1/16W		
		R8605	D1BA2402A023	M 24KOHM,F,1/16W		
		R8608	D0GA103JA039	M 10KOHM,J,1/16W		
		R8609	D0GA103JA039	M 10KOHM,J,1/16W		
		R8610	D0GA103JA039	M 10KOHM,J,1/16W		
		R8611	D0GA103JA039	M 10KOHM,J,1/16W		
		R8612	D0GA103JA039	M 10KOHM,J,1/16W		
		R8613	D0GA103JA039	M 10KOHM,J,1/16W		
		R8614	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8615	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8618	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8619	D1BA1822A023	M 18.2KOHM,F.1/16 W		
		R8623	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R8632	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8666	D1HY1038A012	NETWORK RESISTER		
		R8760	D0GA333JA023	M 33KOHM,J,1/16W		
		R8761	D0GA473JA039	M 47KOHM J. 1/10W		
		R8762	D0GA153JA023	M 15K OHM J 1/16W		
		R8763	D0GA473JA039	M 47KOHM J. 1/10W		
		R8801	D0GA473JA039	M 47KOHM J. 1/10W		
		R8802	D0GA103JA039	M 10KOHM,J,1/16W		
		R8805	D0GA103JA039	M 10KOHM,J,1/16W		
		R8806	D0GA473JA039	M 47KOHM J. 1/10W		
		R8808	D0GA473JA039	M 47KOHM J. 1/10W		
		R8809	D0GA473JA039	M 47KOHM J. 1/10W		
		R8812	D0GA473JA039	M 47KOHM J. 1/10W		
		R8814	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8815	D0GA473JA039	M 47KOHM J. 1/10W		
		R8817	D0GA473JA039	M 47KOHM J. 1/10W		
		R8818	D0GA473JA039	M 47KOHM J. 1/10W		
		R8819	D0GA473JA039	M 47KOHM J. 1/10W		
		R8823	D0GA473JA039	M 47KOHM J. 1/10W		
		R8854	D0GA102JA039	M 1KOHM .J. 1/16W		
		R8870	D0GA473JA039	M 47KOHM J. 1/10W		
		R8901	D1HY1034A012	NETWORK RESISTER		
		R8902	D0GA103JA039	M 10KOHM,J,1/16W		
		R8905	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R8906	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8910	D0GA103JA039	M 10KOHM,J,1/16W		
		R8913	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8914	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8915	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8942	D0GA473JA039	M 47KOHM J. 1/10W		
		R8943	D0GA473JA039	M 47KOHM J. 1/10W		
		R8944	D0GA101JA039	M 100OHM ,J, 1/16W		
		R9005	D0GA153JA023	M 15K OHM J 1/16W		
		R9006	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R9800	D0GD101JA059	M 100 OHM,J,1/4W		
		R9801	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R9802	D0GD103JA052	M 10KOHM,J,1/8W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R9803	D0GD221JA052	M 220 OHM,J 1/8W		
		R9804	D0C12R2JA104	M 2.2OHM ,J, 1W		
		R9806	D0GD153JA052	M 15KOHM,J,1/8W		
		R9807	D0GD623JA052	M 62KHM ,J, 1/8W		
		R9808	D0GD822JA052	M 8.2KOHM,J,1/8W		
		R9809	D0GD223JA052	M 22KOHM,J,1/8W		
		R9810	D0GD223JA052	M 22KOHM,J,1/8W		
		R9811	D0GD103JA052	M 10KOHM,J,1/8W		
		R9812	D0GD101JA059	M 100 OHM,J,1/4W		
		R9813	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R9814	D0GD103JA052	M 10KOHM,J,1/8W		
		R9815	D0GD221JA052	M 220 OHM,J 1/8W		
		R9816	D0C12R2JA104	M 2.2OHM ,J, 1W		
		R9818	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R9819	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R9820	D0GD100JA059	M 10 OHM,J,1/4W		
		R9821	D0GD2R2JA059	M 2.2 OHM,J.1/4W		
		R9822	D0GD103JA052	M 10KOHM,J,1/8W		
		R9823	D0GD101JA052	M 100 OHM,J,1/8W		
		R9824	D0C1R15JA104	M 0.15OHM .J. 1W		
		R9825	D0C1R15JA104	M 0.15OHM .J. 1W		
		R9826	D0GD223JA052	M 22KOHM,J,1/8W		
		R9827	D0GD223JA052	M 22KOHM,J,1/8W		
		R9828	D0GD101JA052	M 100 OHM,J,1/8W		
		R9829	D0C1R15JA104	M 0.15OHM .J. 1W		
		R9831	D0GD2R2JA059	M 2.2 OHM,J.1/4W		
		R9832	D0GD103JA052	M 10KOHM,J,1/8W		
		R9833	D0GD123JA052	M 12KOHM,J,1/8W		
		R9834	D0GD184JA052	M 180KOHM,J,1/8W		
		R9835	D0GD274JA052	M 270KOHM ,J, 1/16W		
		R9836	D0GD274JA052	M 270KOHM ,J, 1/16W		
		R9837	D0GD2R2JA059	M 2.2 OHM,J.1/4W		
		R9839	D0GD103JA052	M 10KOHM,J,1/8W		
		R9840	D0GD2R2JA059	M 2.2 OHM,J.1/4W		
		R9841	D0GD100JA059	M 10 OHM,J,1/4W		
		R9842	D0GD103JA052	M 10KOHM,J,1/8W		
		R9843	D0C1R15JA104	M 0.15OHM .J. 1W		
		R9844	D0GD101JA052	M 100 OHM,J,1/8W		
		R9845	D0GDR00J0004	M 0 OHM, 1/8W		
		R9847	D0GD1R0JA052	M 1 OHM,J,1/8W		
		R9848	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R9849	D0GD103JA052	M 10KOHM,J,1/8W		
		R9850	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R9851	D0GD473JA052	M 47KOHM,J,1/8W		
		R9852	D0GDR00J0004	M 0 OHM, 1/8W		
		R9853	D0GDR00J0004	M 0 OHM, 1/8W		
		R9854	D0GDR00J0004	M 0 OHM, 1/8W		
TRANSFORMERS						
		T7201	G4DYA0000366	TRANSFORMER		
		T7302	G4DYA0000449	TRANSFORMER		
OTHERS						
		A02	K1KY14BA0484	CONNECTOR		
		A10	K1KY07BA0483	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A16	K1MY51BA0526	CONNECTOR		
		A20	K1FY105E0017	CONNECTOR		
		CF7101	D4CAY4R7A096	THERMISTOR RESISTOR		
		CF7102	D4CAY4R7A096	THERMISTOR RESISTOR		
		D2802	B3AGB0000060	LED		
		F7101	K5E502YYA162	FUSE		
		GK4	K1KY03BA0402	CONNECTOR		
		JA1	D0GDR00J0004	CHIP RESISTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		JA13	D0GDR00J0004	CHIP RESISTOR		
		JA2	D0GDR00J0004	CHIP RESISTOR		
		JA21	D0GDR00J0004	CHIP RESISTOR		
		JA56	D0GFR00J0005	CHIP RESISTOR		
		JA57	D0GFR00J0005	CHIP RESISTOR		
		JA6	D0GDR00J0004	CHIP RESISTOR		
		JA7	D0GDR00J0004	CHIP RESISTOR		
		JA9	D0GDR00J0004	CHIP RESISTOR		
		JK3101A	K1U511D00005	RCA JACK		
		JK4701	K1FY119D0029	TERMINAL		
		JK4702	K1FY119D0029	TERMINAL		
		JK4703	K1FY119D0029	TERMINAL		
	⚠	JK6750	K1ZZ00001551	TUNER SHIELD		
	⚠	JK7101	K2AAYB000010	AC INLET		
		JK8601	K1FY104B0092	TERMINAL		
		JK8602	K1FY104B0092	TERMINAL		
		JK8650	K2LC1YYA0019	TERMINAL		
		JS0043	D0GAR00J0005	CHIP RESISTOR		
		JS0070	D0GAR00J0005	CHIP RESISTOR		
		JS7406	D0GFR00J0005	CHIP RESISTOR		
		K10	K1KY07BA0483	CONNECTOR		
		LD1	K1KA10BA0062	CONNECTOR		
		LD3	K1KY07BA0502	CONNECTOR		
	⚠	LF7103	G0B203GA0070	LINE FILTER		
	⚠	LF7104	G0B203GA0070	LINE FILTER		
	⚠	LF7105	G0B350GA0083	LINE FILTER		
		P2	K1KY14BA0386	CONNECTOR		
		P4	K1KY12BA0400	CONNECTOR		
		PA7402	ERBRE5R00V	FUSE RESISTOR		
		PA7406	ERBRE5R00V	FUSE RESISTOR		
		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		
	⚠	X6750	H0J240500067	CRYSTAL OSCILLATOR		
	⚠	X8300	H0J270500166	CRYSTAL RESONATOR		
		ZA7101	K4AD01A00004	RUG TERMINAL		
		ZA7103	K4AD01A00004	RUG TERMINAL		
		ZA7104	K4AD01A00004	RUG TERMINAL		
		ZA7105	K4AD01A00004	RUG TERMINAL		
		ZA9800	K4AD01A00004	RUG TERMINAL		
		ZA9801	K4AD01A00004	RUG TERMINAL		
		ZA9802	K4AD01A00004	RUG TERMINAL		
		ZA9803	K4AD01A00004	RUG TERMINAL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K2CT2YY00091	AC CORD		
		2	L0EYAA000026	SPEAKER UNIT		
		3	L5EDDY00474	LCD PANEL		
		4	N2QAYB000834	REMOTE TRANSMITTER		
		5	N5HBZ0000101	WI FI DONGLE		
		6	TBL5ZX05511	PEDESTAL ASSY		
		7	TBL5ZX06671	STAND MTG ASSY		
			TBM4GD2541	MODEL NAME PLATE		
		8	TBX5ZA03201	KEY BUTTON BRACKET		
		9	TKK5ZC50311	LED PANEL		
		10	TKP5ZA29402	SIDE AV BRACKET		
			TKP5ZA38101	BOTTOM COVER		
		11	TPD4GA04931	TOP CUSHION		
		12	TPD4GA04941	TOP CENTER CUSHION		
		13	TPD4GA04951	BOTTOM CUSHION		
		14	TPD4GA04961	BOTTOM CENTER CUSHION		
		15	TPE4GH080	SET COVER		
		16	TQZ4GB746	FAN BAG ASSY		
			TSCKF0170076	LVDS FFC		
		17	TTU4GA1087	BACK COVER ASSY		
		18	TTY4GA0320	CABINET ASSY		
		19	TXFPC01RLUM	PACKING CASE ASSY		
			XSS5+16FJK	STAND TO PEDESTAL SCREW		
			XYN4+F12FJK	STAND TO TV SCREW		
Electrical Replacement Part List						
		RTL	TXN/K1XGUB	K PRINT		
		RTL	TXN/P1RKUV	P PRINT		
		RTL	TXNGK1SRUA	GK BOARD		
		RTL	TXNLD1FXVE	LD PRINT		
		RTL	TZT/A1RLUM	A PRINT ASSY		