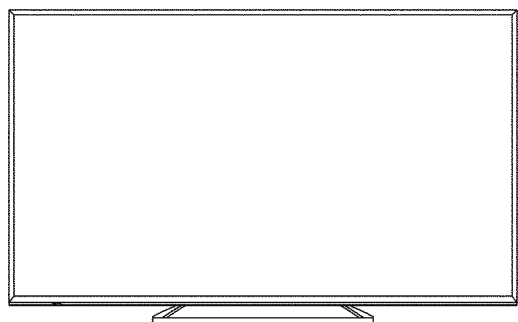


Service Manual

LED TV



Model No. TH-50AS670S

Chassis: LA51

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 8.5Mohm to 13Mohm. 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.

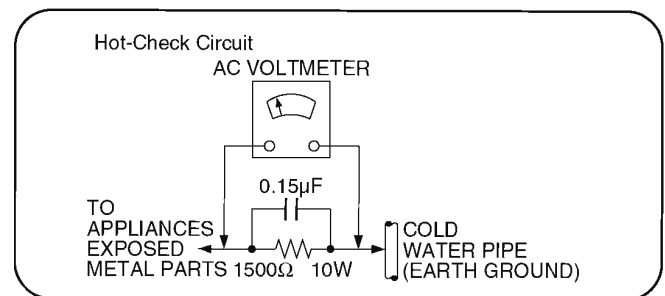


Figure 1

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).

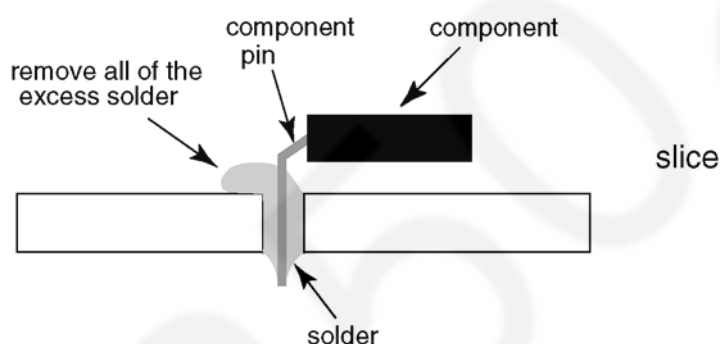
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

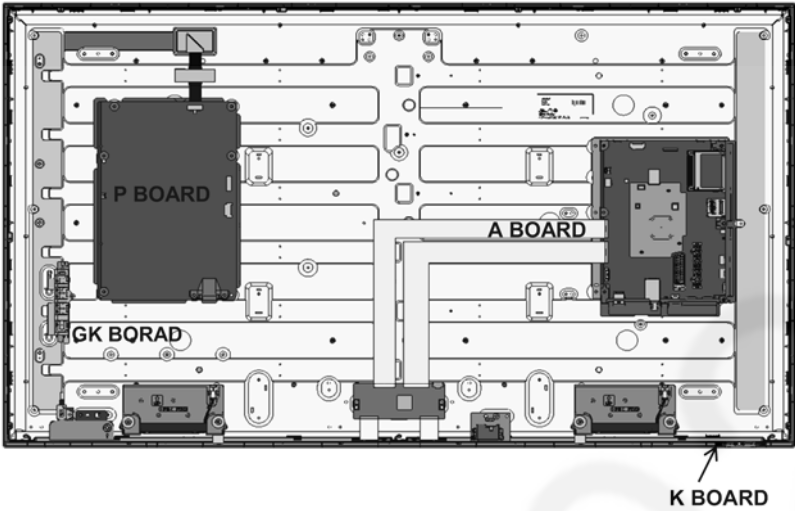
Caution

- 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	Tuner, DVB-T2 De-Mod, ISDB De-Mod, LD6, LNB, GCX(Only 1103)	Repairable
P BOARD	Power Supply, LED Driver	Repairable
K BOARD	Remote, LED, Luminance Sensor	Repairable
GK BOARD	Control Panel	Repairable

4 Specifications

■ TV

Dimensions (W × H × D)	1 130 mm × 703 mm × 214 mm (With Pedestal) 1 130 mm × 658 mm × 54 mm (TV only)
Mass	15.5 kg Net (With Pedestal) 14.5 kg Net (TV only)
Power source	AC 220-240 V, 50 / 60 Hz
Rated power consumption	115 W
Standby power consumption	0.20 W
Visible screen size (diagonal)	126 cm
Display resolution	1 920 (W) × 1 080 (H)
Panel	LED backlight Liquid Crystal Display
Speaker output	20 W (10 W + 10 W)

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
HDMI1 / 3: 3D, Content Type
HDMI2: 3D, Content Type, Audio Return Channel
• This TV supports 'HDAVI Control 5' function.

ETHERNET

USB 1 / 2

DIGITAL AUDIO OUT

10BASE-T/100 BASE-TX
DC 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]
PCM / Dolby Digital / DTS, Fibre optic

Receiving systems / Band name

17 SYSTEMS	FUNCTION
1 PAL B, G, H 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)	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
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 12 NTSC 3.58 / 6.0 MHz 13 NTSC 3.58 / 6.5 MHz 14 SECAM I	Playback from Special VCR's or DVD
15 PAL 60 Hz / 5.5 MHz 16 PAL 60 Hz / 6.0 MHz 17 PAL 60 Hz / 6.5 MHz	Playback from Special Disc Players and Special VCR's or DVD

Receiving channels (Analogue TV)

VHF BAND

Digital TV 7 MHz VHF / 8 MHz UHF free-to-air TV broadcast reception
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*1**

IEEE802.11a/n

5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz

IEEE802.11b/g/n

2.400 GHz - 2.4835 GHz

Security

WPA2-PSK (TKIP/AES)

WPA-PSK (TKIP/AES)

WEP (64 bit/128 bit)

Bluetooth wireless technology*2**Standard Compliance**

Bluetooth 3.0

Frequency Range

2.402 GHz - 2.480 GHz

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

*2: Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously (except 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

- 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).

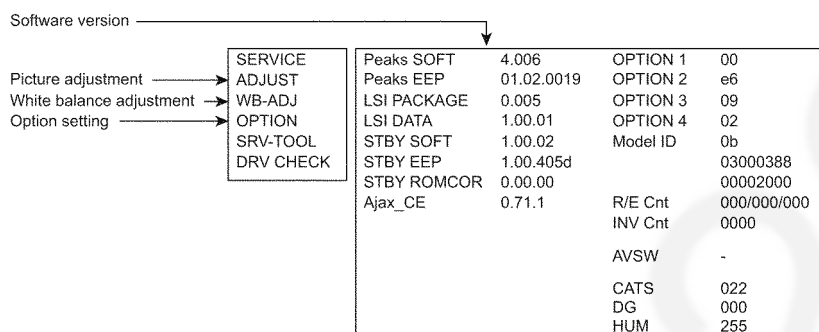
5 Service Mode

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.



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

5.1.5. 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].

5.1.6. Exit

1. Disconnect the AC cord from wall outlet.

5.1.7. Hotel Mode

1. Purpose

Restrict a function for hotels.

2. Access command to the Hotel mode setup menu.

In order to display the Hotel mode setup menu:

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.

Hotel Mode	
Hotel Mode	Off
Initial INPUT	Off
Initial POS	1
Initial VOL Level	Off
Maximum VOL Level	100
Button Lock	Off
Remote Lock	Off
Copy TV to USB	[>]
Copy USB to TV	[>]

Select



Exit
Change
Exit

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.
Hotel Mode USB	Basically after user already setup the hotel mode according to their criteria, what they need to do is • insert USB (while in hotel mode) • choose 'Copy TV to USB' to copy the setting into the USB (a file will be created to store the hotel mode setting in the USB) • switch 'OFF' the unit • pull out USB from unit To copy the hotel mode setting from USB. • enter hotel mode • insert USB • choose 'Copy USB to TV' • follow instruction as shown on the units • once finish, switch 'OFF' the unit • pull out USB from unit
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	PEAKS-SOFT	4.006
H90STBY	OK	PEAKS-EEP	01.02.0019
H91MEM2	OK	LSI-PACKAGE	0.005
H17LAN	OK	LSI-RELEASE	1.01
H00FE	OK	STBY-SOFT	1.00.02
H97ID2	OK	STBY-EEP	1.00.405d
H42WiFi	OK		
		MODEL ID	0b
			03000388
			00002000

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

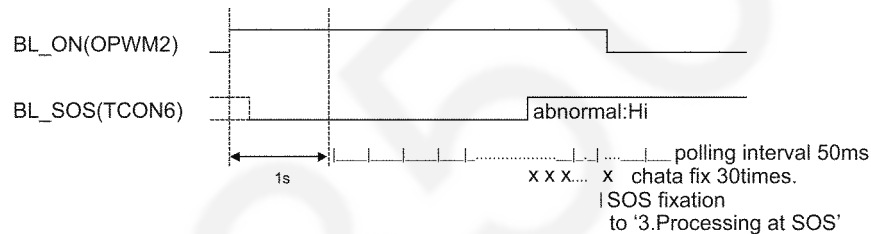
When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

Blinking times	Contents & Check point
1	BL_SOS
3	IROM-SOS
6	FPGA_SOS
7	SUB_3.3V
8	SOS
9	SOUND_SOS
10	GCX/FRC_SOS
12	BE (sLD8/LD6/PRO4) SOS
13	Emergency SOS

6.3. Method of detecting SOS

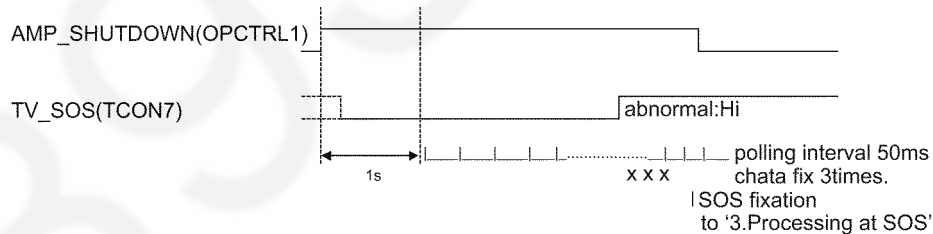
1. BL_SOS

Detection beginning after one second pass from 'BL_ON'=ON



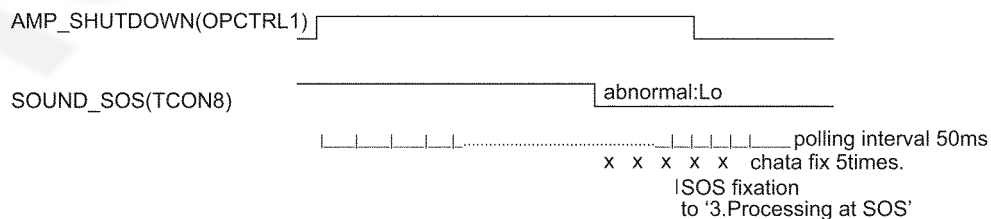
2. TV_SOS

Detection beginning after one second pass from 'AMP_SHUTDOWN'=ON



3. SOUND_SOS

Detection beginning 'AMP_SHUTDOWN'=ON



6.4. 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.

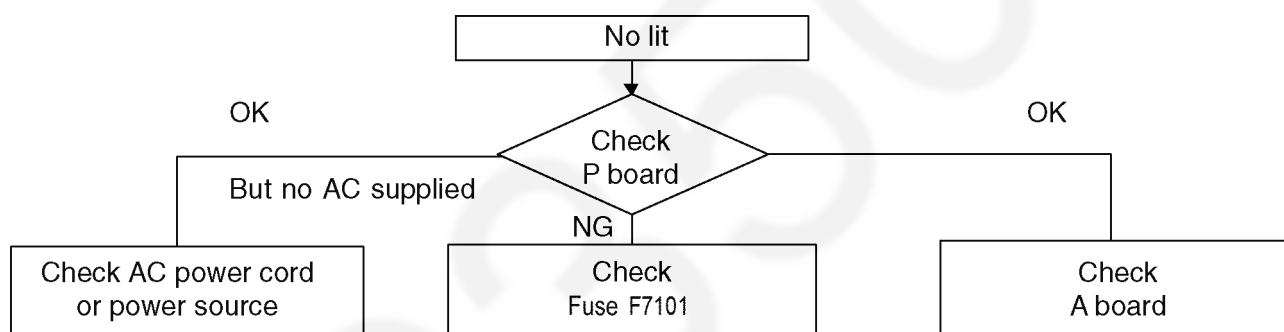
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.5. No Power

First check point

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

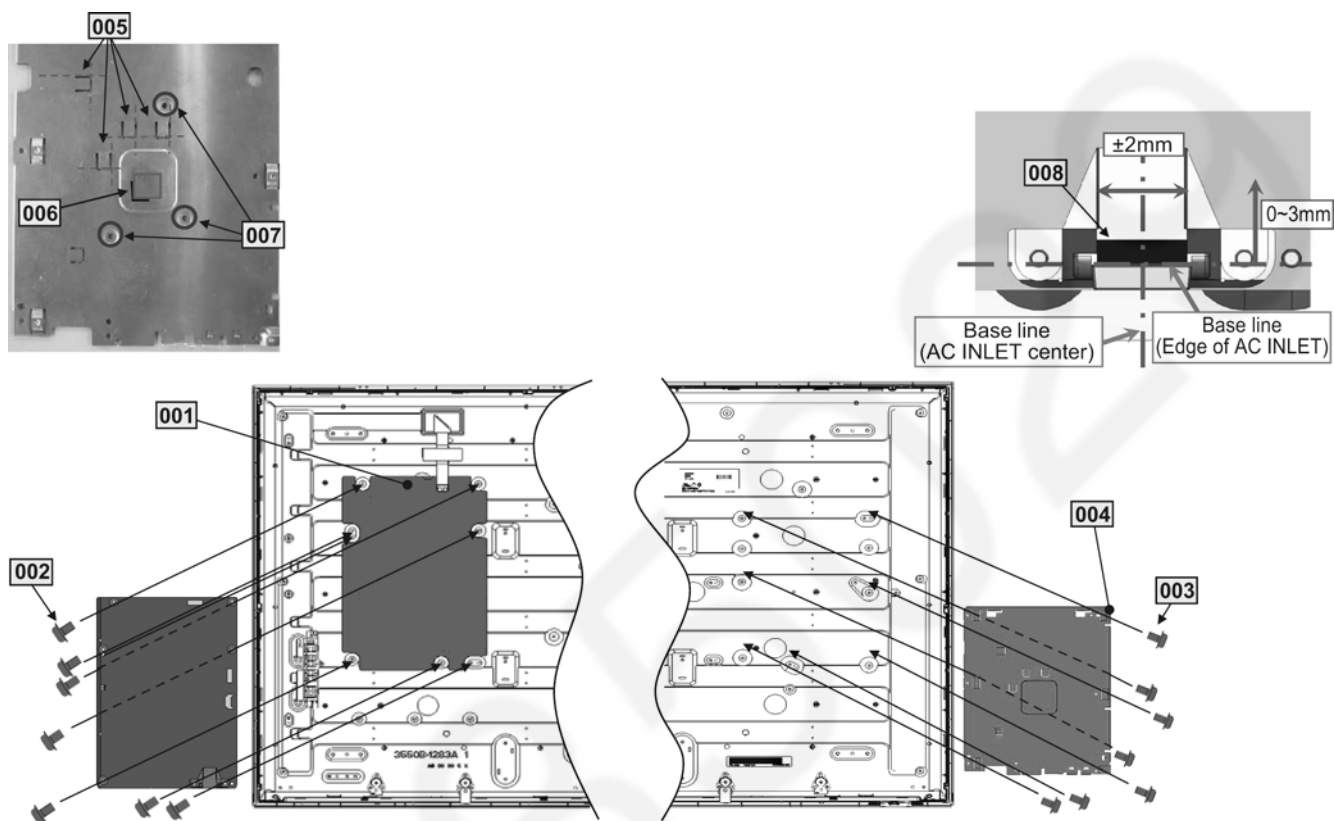
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. SP Bracket Assy

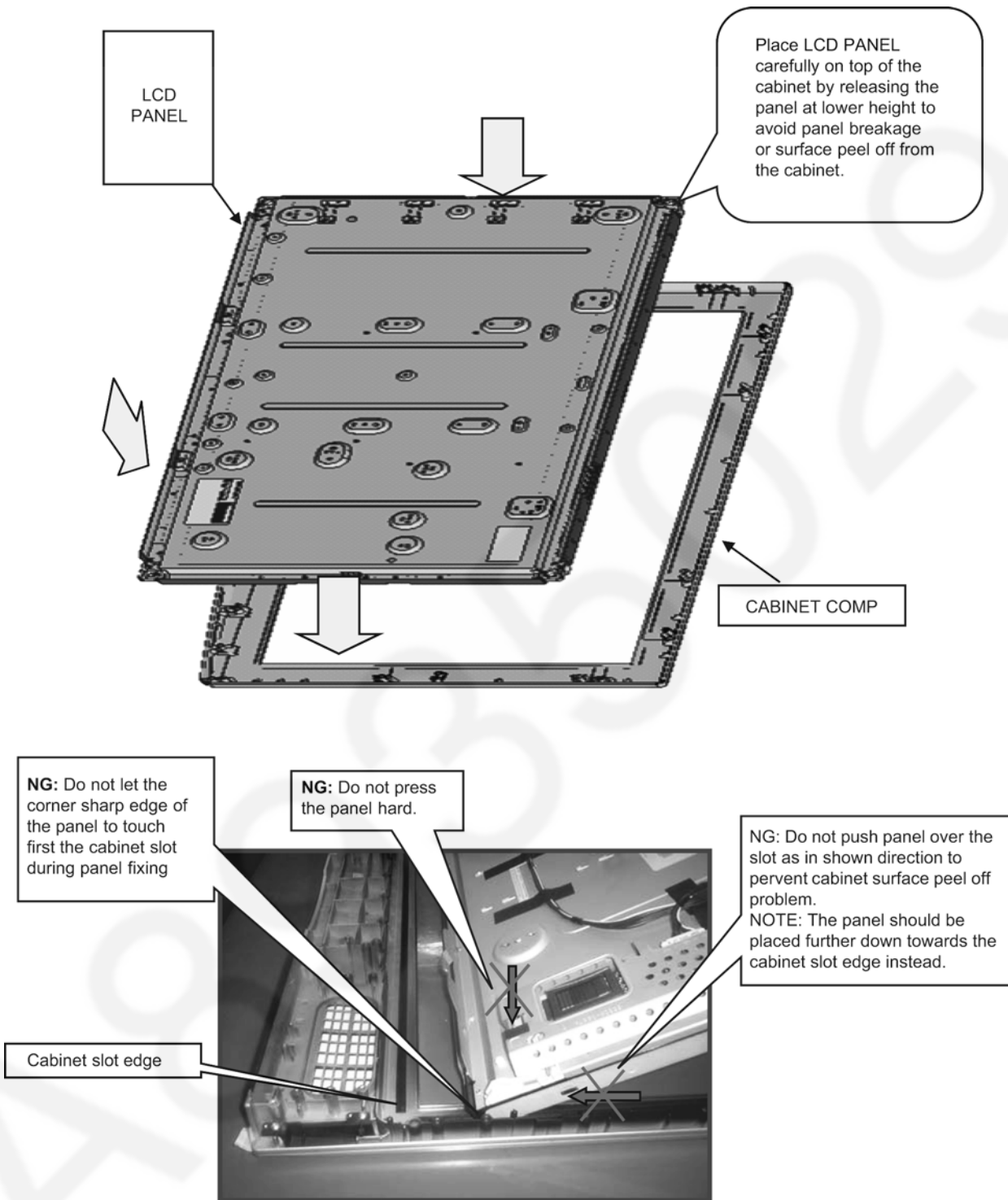
1. Fix HEAT SINK to panel.
2. Install P-board to panel.



No	Description	Qty	UOM	Remarks
001	BARRIER	1	PC	
002	SCREW (P7)	7	PC	
003	SCREW (HEAT SINK7)	7	PC	5 - 7Kgfc
004	HEAT SINK REAR	1	PC	
005	A-THERMAL CONDUCTIVE SHEET(DDR REAR)	4	PC	
006	A-THERMAL CONDUCTIVE SHEET(REAR)	1	PC	
007	SPACER FOR A-HEAT SINK	3	PC	
008	FELT (0.45 × 20 × 10)	1	PC	

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.

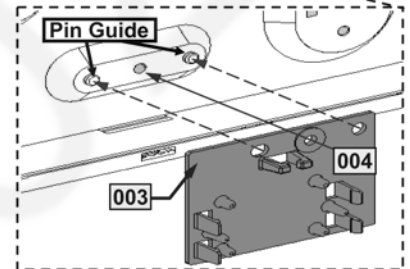
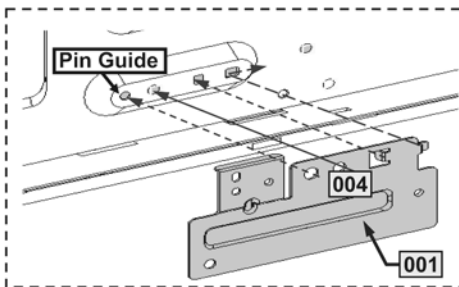
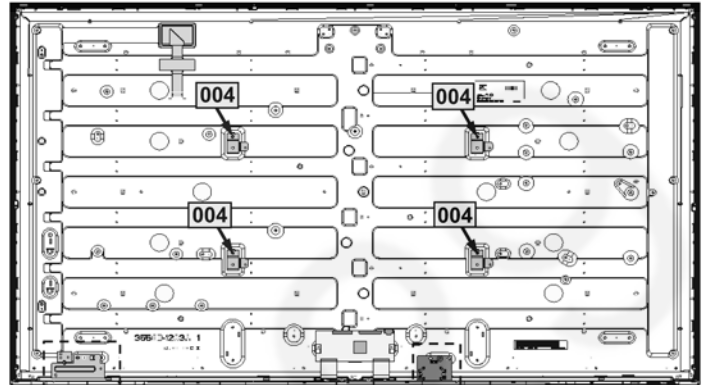
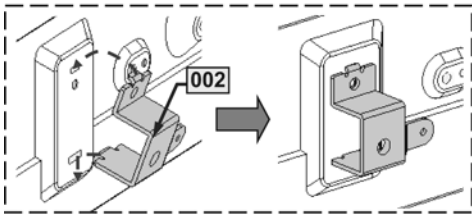


Other general precautions

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. LED Panel Assembly

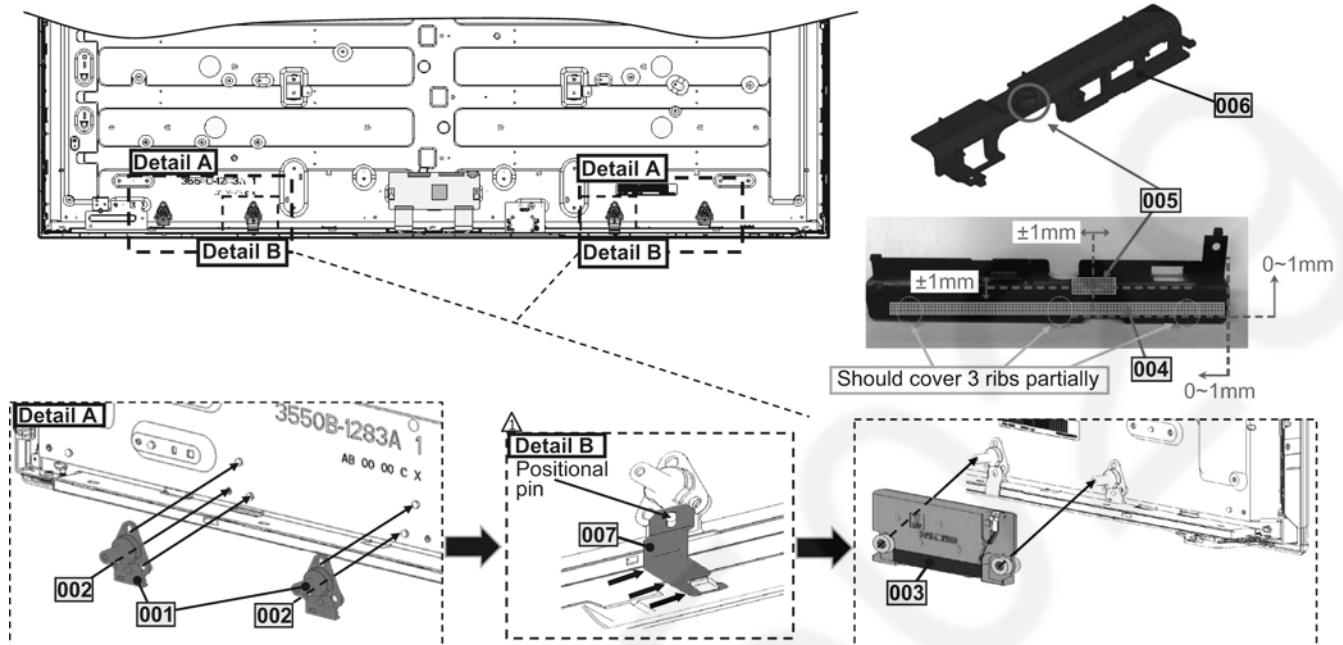
1. Install VESA METAL to panel.
2. Install WIFI METAL to panel.
3. Install BT bracket to panel.



No	Description	Qty	UOM	Remarks
001	WIFI METAL	1	PC	
002	VESA METAL	4	PC	
003	BLUETOOTH BRACKET	1	PC	
004	SCREW (VESA4/WF3/BT1)	6	PC	5 - 7KgfcM

7.4. Metal Bracket Fixing

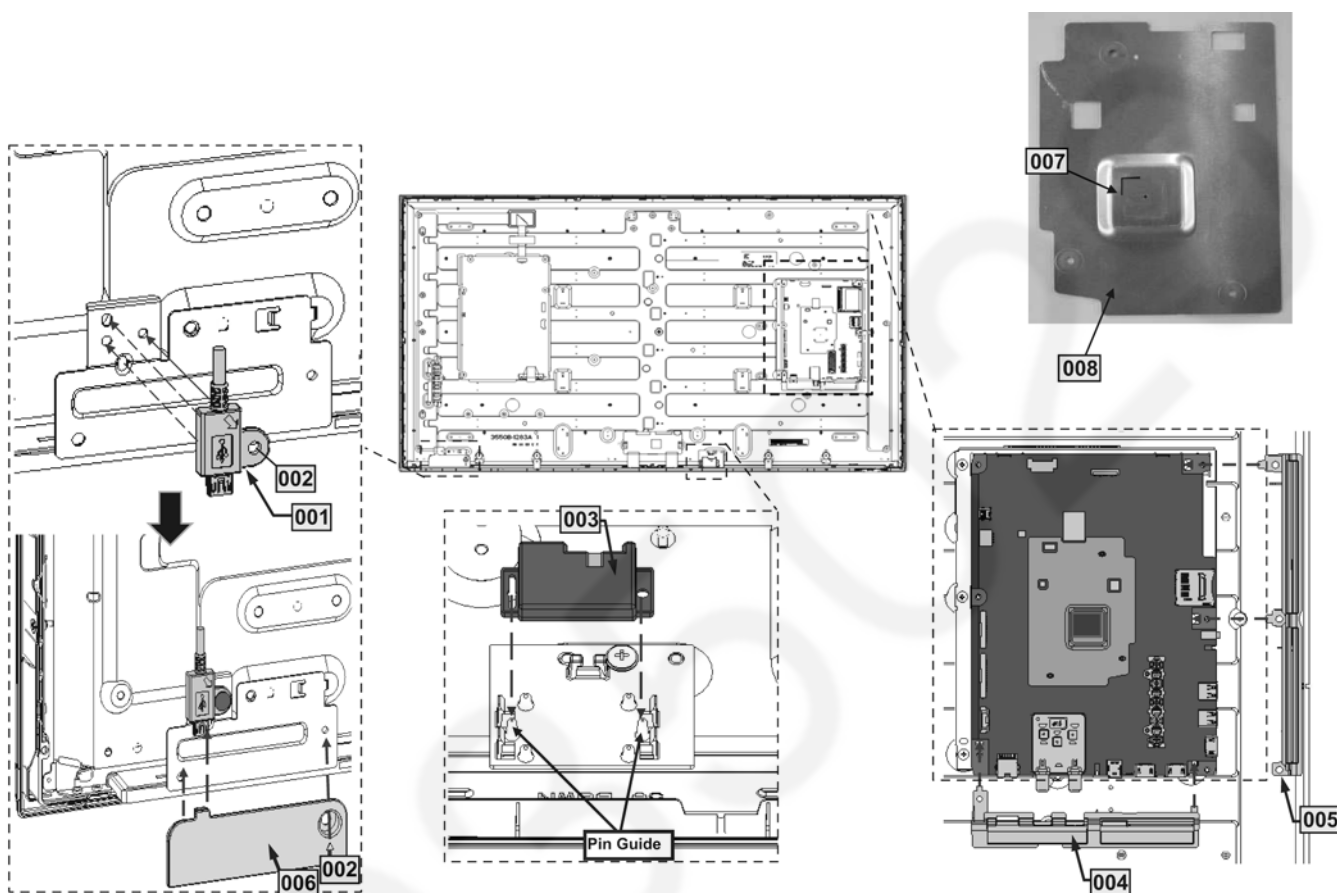
1. Install SP bracket to panel.
2. Stick FELT to BTM AV bracket.
3. Install SP unit to SP bracket.



No	Description	Qty	UOM	Remarks
001	SP BRACKET	4	PC	
002	SCREW (SP4)	4	PC	5 - 7KgfcM
003	SPEAKER UNIT	2	PC	
004	FELT (0.55 × 170 × 10)	1	PC	
005	FELT (0.45 × 20 × 10)	1	PC	
006	BOTTOM AV BRACKET	1	PC	
007	LCD MTG BOTTOM	2	PC	

7.5. A-Print Assy

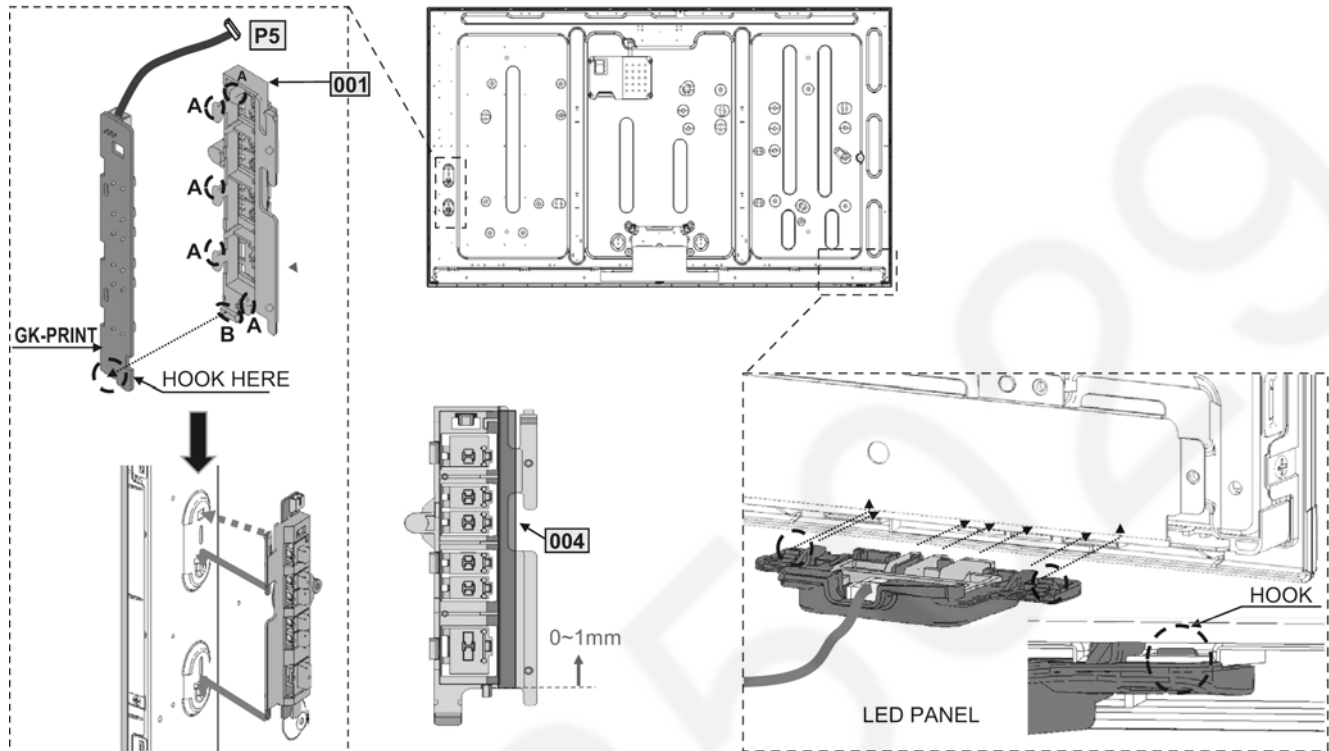
1. Fix SIDE AV BRACKET to A-print.
2. Install P-board to panel.
3. Stick GASKET to under HEAT SINK.
4. Install BT bracket.



No	Description	Qty	UOM	Remarks
001	WIFI USB CABLE	1	PC	
002	SCREW (WF2)	2	PC	5 - 7KgfcM
003	BT MODULE	1	PC	
004	BOTTOM AV BRACKET	1	PC	
005	SIDE AV BRACKET	1	PC	
006	WIFI MODULE	1	PC	
007	A-THERMAL CONDUCTIVE SHEET	1	PC	
008	A HEAT-SINK (FRONT)	1	PC	

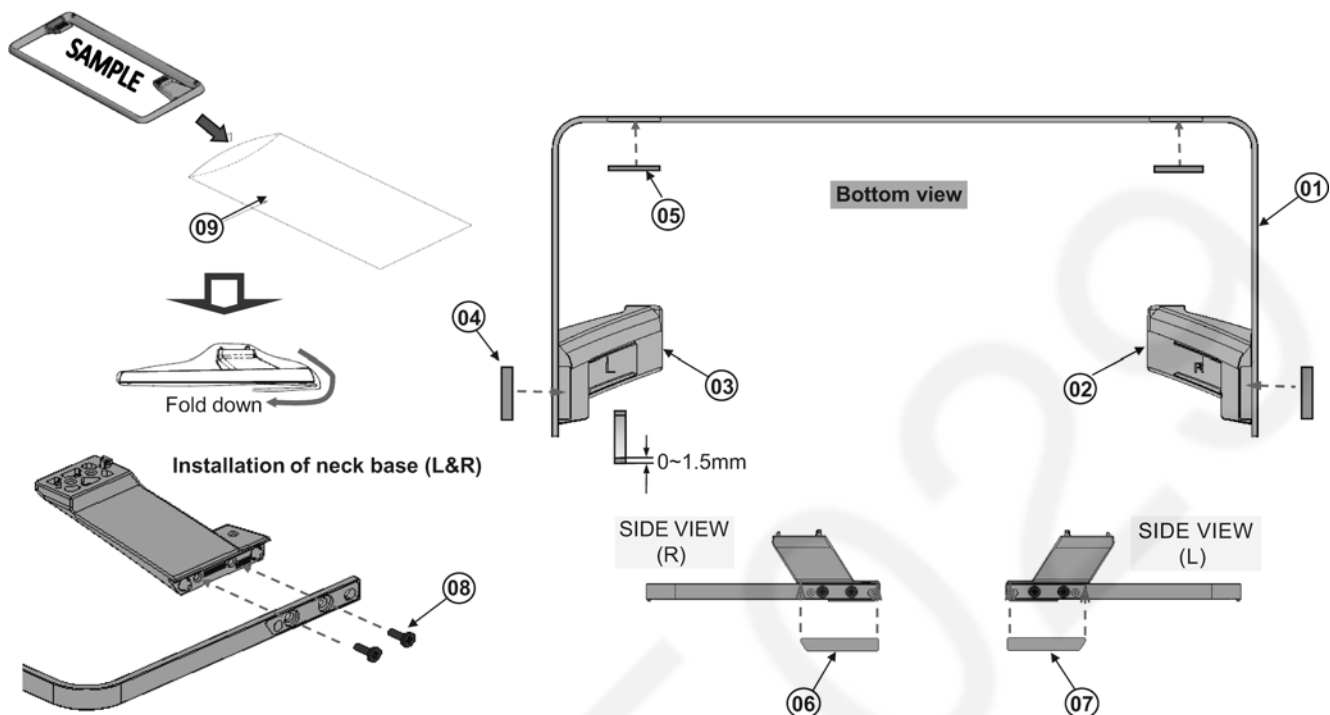
7.6. K-Print and GK Print Assy

1. Install KEY BUTTON bracket.
2. Stick FELT to KEY BUTTON bracket.
3. Fix LED panel to LED panel case.



7.7. Pedestal

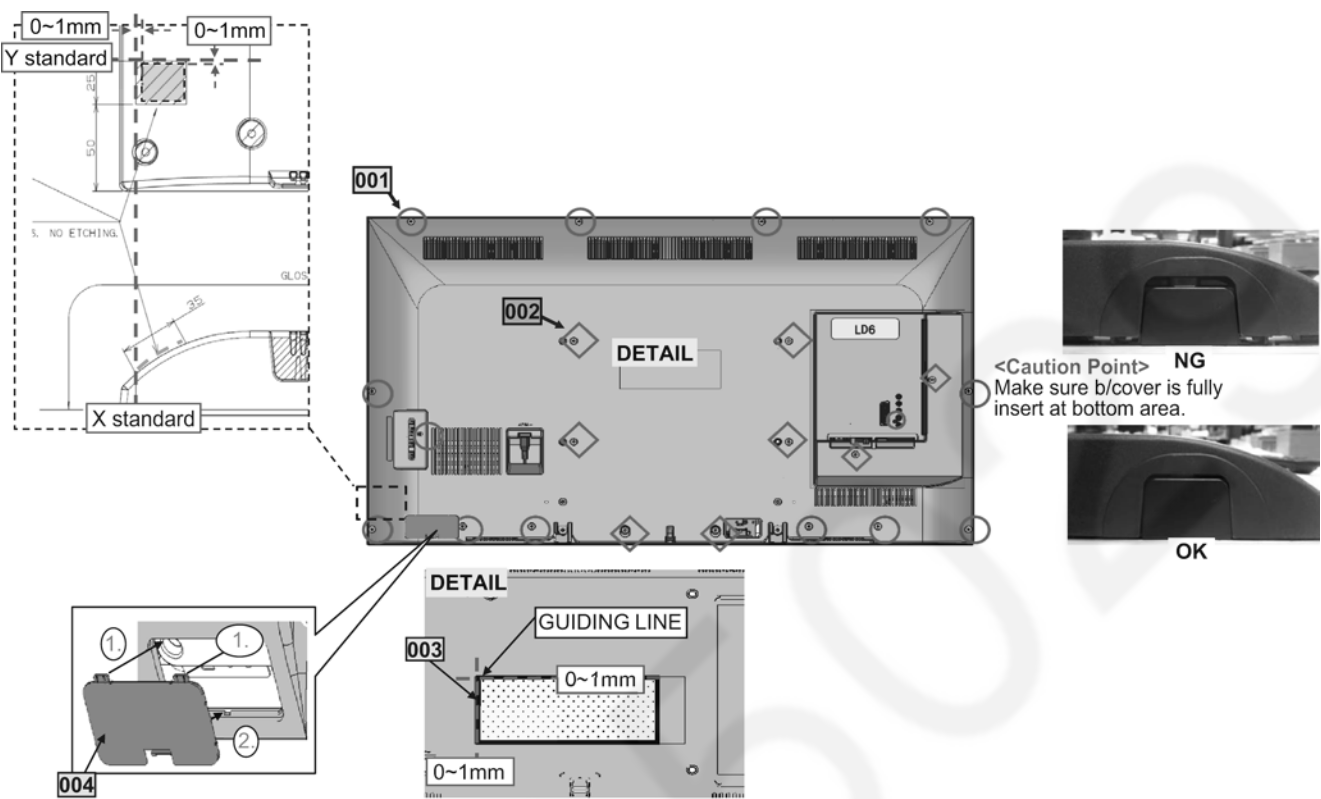
Illustration of pedestal packaging



No	Description	Qty	UOM
01	METAL FRAME	1	PC
02	NECK BASE-R	1	PC
03	NECK BASE-L	1	PC
04	RUBBER FOOT	2	PC
05	RUBBER FOOT	2	PC
06	METAL FRAME SHEET-R	1	PC
07	METAL FRAME SHEET-L	1	PC
08	M5 × 12_ SCREW	4	PC
09	BAG (PEDESTAL)	1	PC

7.8. Back Cover Assy

Stick all label b/cover as picture below.



No	Description	Qty	UOM	Remarks
001	SCREW (BC8/SP4/AV1/CTRL1)	14	PC	5 - 7Kgfcmm
002	SCREW (VESA4/BC4)	8	PC	5 - 7Kgfcmm
003	MODEL NAME PLATE	1	PC	
004	DONGLE COVER	1	PC	

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.

Board	Checked Name	Test Point	Specification	In/Out	Target Board Suffix
A	PNL12V	TP4000, TP4001	12V $\pm$ 1.2V	output	ALL
A	SUB5V	TP8704	5.17V $\pm$ 0.25V	output	ALL
A	SUB3.3V	TP8705	3.39V $\pm$ 0.15V	output	ALL
A	HDMI3.3V	TP8710	3.3V $\pm$ 0.17V	output	ALL
A	SUB_AI_3.3V	TP2206	3.3V $\pm$ 0.17V	output	ALL
A	EU_TU_1.8V	TP5704	1.84V $\pm$ 0.1V	output	ALL
A	SUB1.5V	TP8101	1.52V $\pm$ 0.08V	output	ALL
A	SUB1.1V	TP8100	1.21 $\pm$ 0.06V	output	ALL
A	USB-WiFi	TP8620	5.15 $\pm$ 0.20V	output	ALL
A	LNB_PWR_M	TP6703	18V $\pm$ 1.0V	output	EE/EF/YE/YF/EL/EM/YL/YM/ES
A	LNB_PWR_S	TP6702	18V $\pm$ 1.0V	output	EE/EF/YE/YF/EL/EM/YL/YM/ES
A	LNB_PWR_M	TP6703	15V $\pm$ 1.5V	output	JA/JB/JM/JN/JP
A	SUB9V	TP5004	9V $\pm$ 0.4V	output	EE/EF/YE/YF/EL/EM/YL/YM/ES
A	WOL3.3V	TP8712	3.3V $\pm$ 0.17V	output	EE/EF/YE/YF/EL/EM/YL/YM
A	JPN_3.3V	TP5700	3.3V $\pm$ 0.17V	output	JA/JB/JM/JN/JP
A	JPN_1.2V	TP5702	1.22V $\pm$ 0.1V	output	JA/JB/JM/JN/JP
A	SD3.3V	TP8617	3.34V $\pm$ 0.17V	output	ALL except for ES/UQ
A	LNA5V	TP5705	5.0V $\pm$ 0.25V	output	JA/JB/JM/JN/JP
A	JP_TU_2.5V	TP5703	2.53V $\pm$ 0.1V	output	JA/JB/JM/JN/JP
A	DMD_1.2V	TP5703	1.20V $\pm$ 0.12V	output	CM/HF
A	DMD_1.1V	TP5703	1.12V $\pm$ 0.11V	output	YE/YF/YL/YM/AA/SV/SF/KM/KN/KP/EL/EM/ES
A	DMD_1.1V	TP5703	1.15V $\pm$ 0.11V	output	EE/EF
A	SUB_CI_5V	TP8400	5.0V $\pm$ 0.5V	output	EE/EF/YE/YF/EL/EM/YL/YM/ES
A	SUB_CI_5V-B	TP8500	5.0V $\pm$ 0.5V	output	EE/EF
A	USB1	TP8627	5.0V $\pm$ 0.25V	output	EE/EF/YE/YF
A	USB2	TP8615	5.0V $\pm$ 0.25V	output	EE/EF/YE/YF
A	USB3	TP8611	5.0V $\pm$ 0.25V	output	EE/EF/YE/YF
A	USB1	TP8615	5.0V $\pm$ 0.25V	output	ALL except for EE/EF/YE/YF
A	USB2	TP8611	5.0V $\pm$ 0.25V	output	ALL except for EE/EF/YE/YF
A	USB-WiFi	TP8620	5.3V + 0.15V/-0.2V	output	ALL
A	USB-skype	TP8628	5.0V $\pm$ 0.25V	output	YE/YF

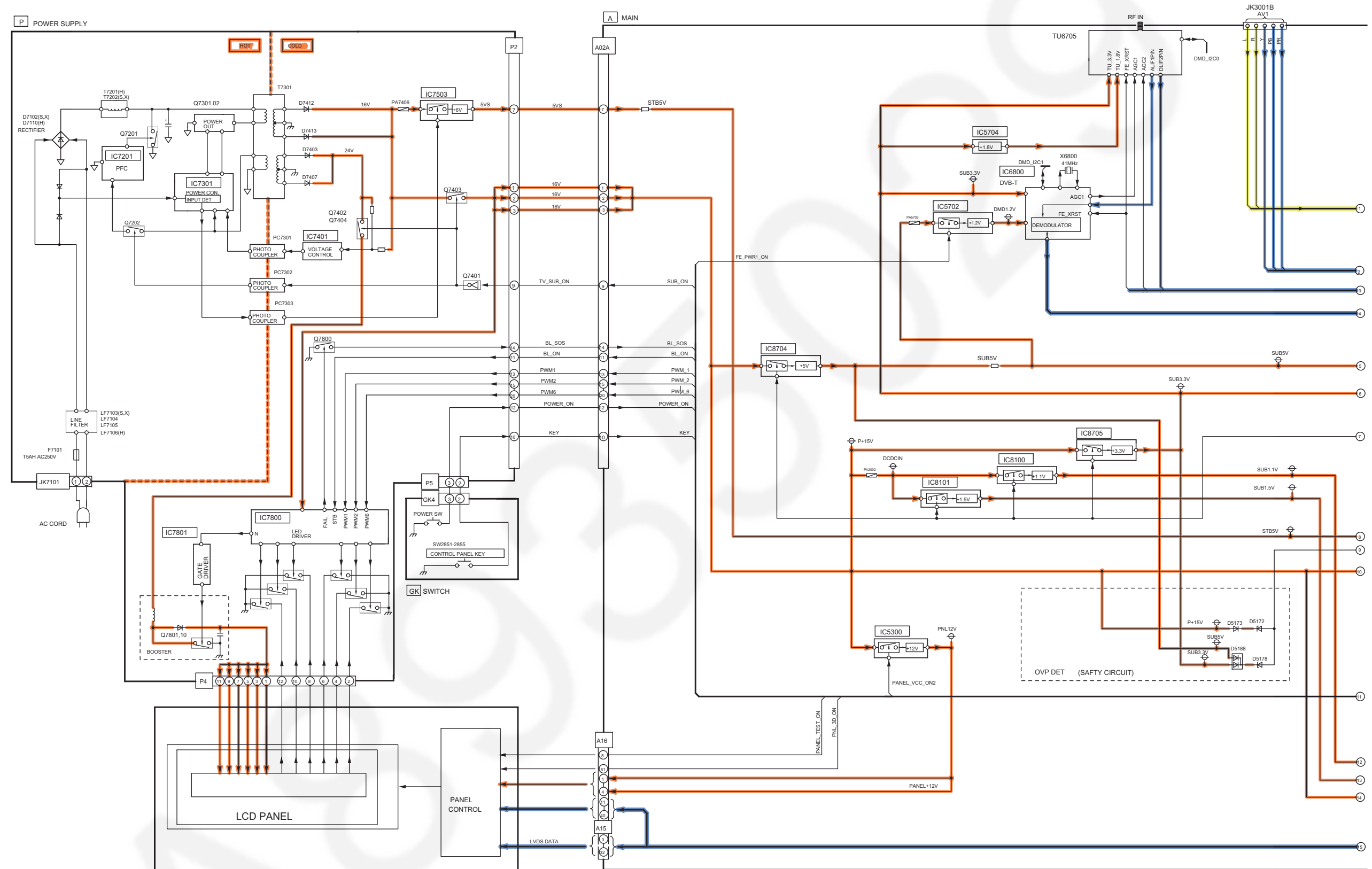
8.2. Voltage chart of P-board

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

Output	Test Point	Step 1	Step 2	
24V	TP7411	<1V	24 $\pm$ 1.2V	
16V	TP7411	<1V	15.7 $\pm$ 0.6V	
5VS	TP7501	5.2 $\pm$ 0.2V	5.2 $\pm$ 0.2V	
PFC	TP7201 or TP7202	<340V	390V $\pm$ 15V	*HOT



9.2. Detailed Block Diagram (1/2)

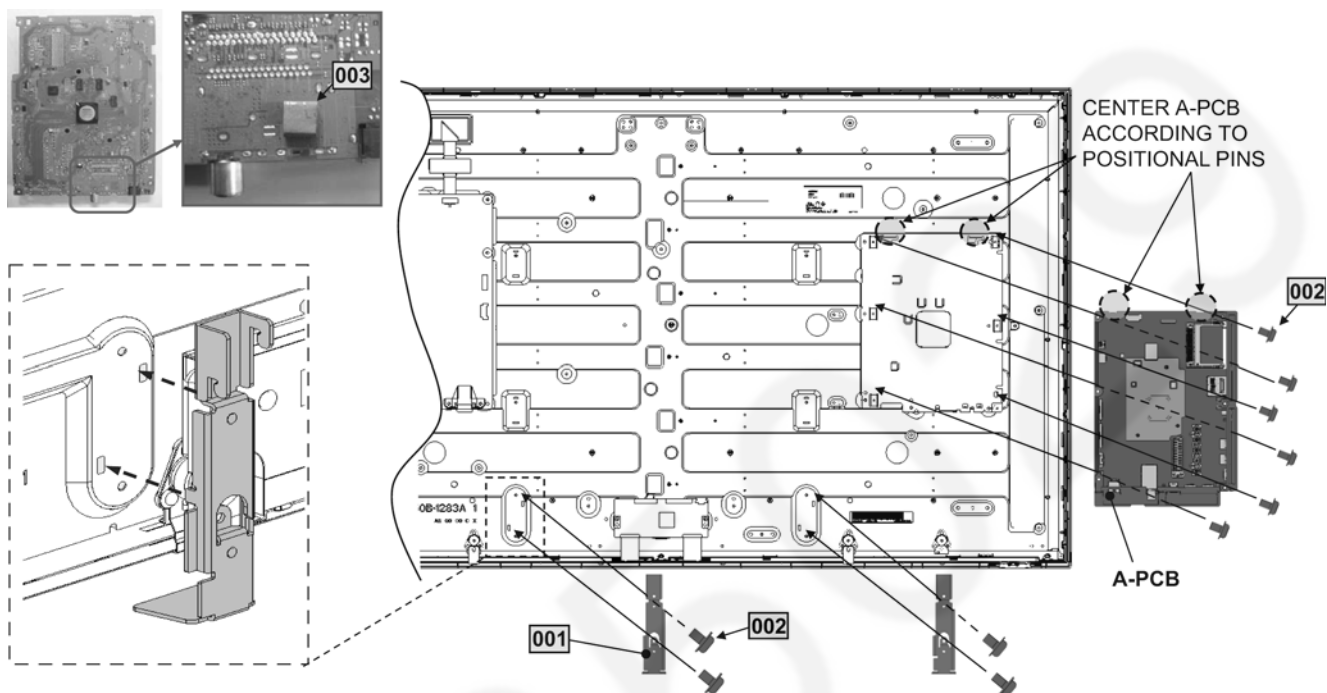




10 Wiring Connection Diagram

10.1. Wire Dressing 1

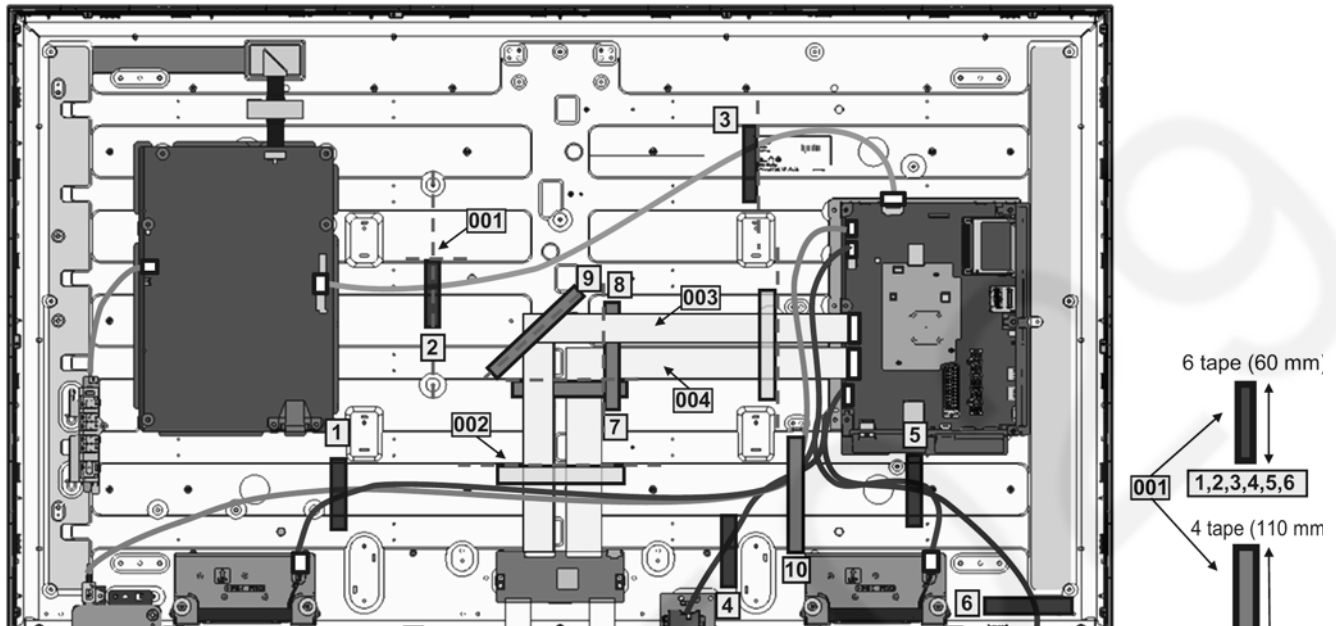
1. Stick GASKET to A-board.
2. Install BTM METAL to panel.



No	Description	Qty	UOM	Remarks
001	BOTTOM METAL	2	PC	
002	SCREW (METAL4)	10	PC	5 - 7KgfcM
003	GASKET	1	PC	

10.2. Wire Dressing 2

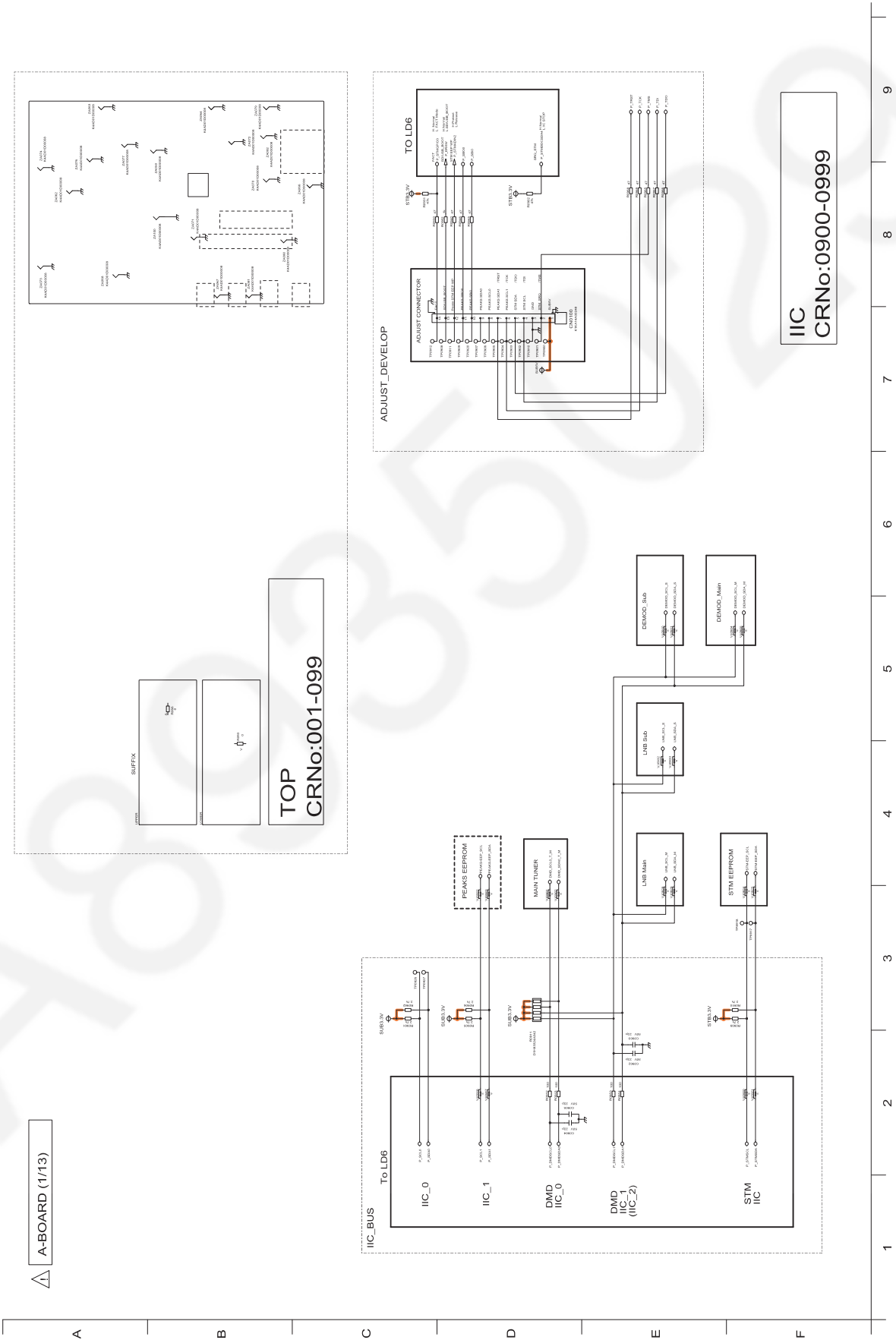
1. Do wire dressing to wire cable.
2. Stick Pet Tape according to picture.



No	Description	Qty	UOM
001	PET TAPE (0.06*7+0.11*4)	0.86	MT
002	AL PET TAPE	2	PC
003	LVDS FFC (51PIN)	1	PC
004	LVDS FFC (41PIN)	1	PC

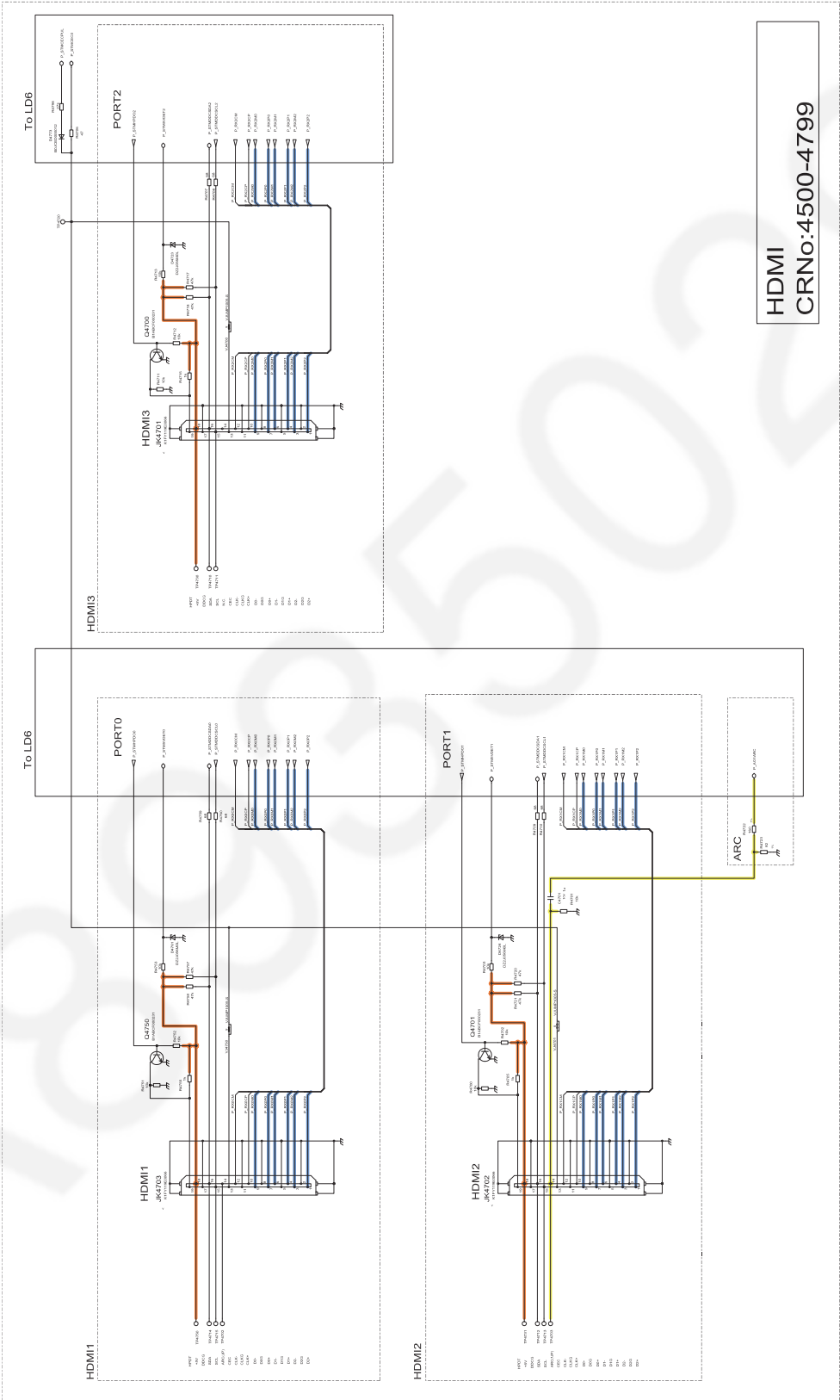
11 Schematic Diagram

Model No. : TH-50AS670S A-Board (1/13)



A-BOARD (2/13)

HDMI Input



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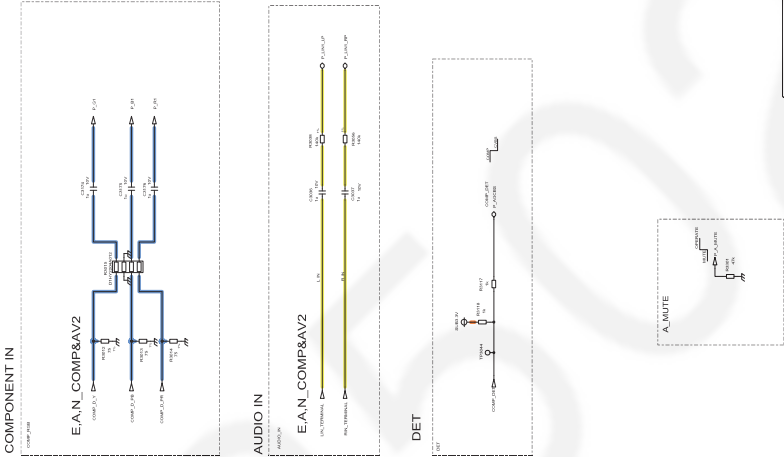
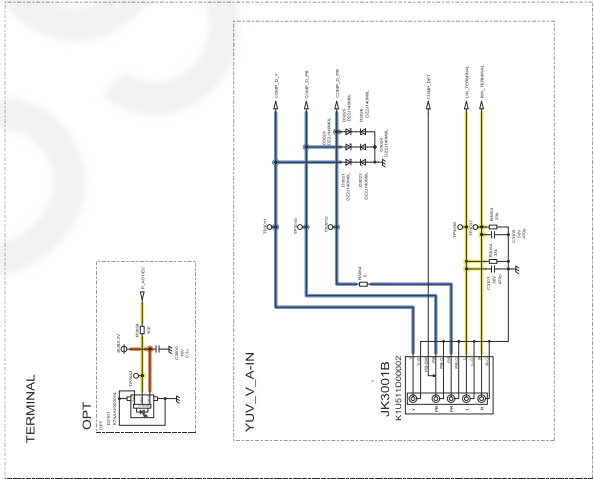
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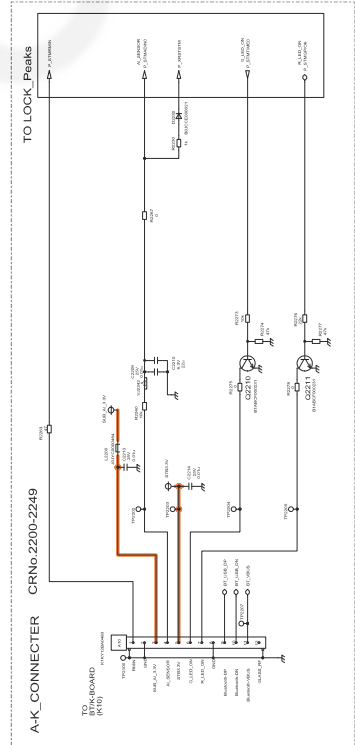
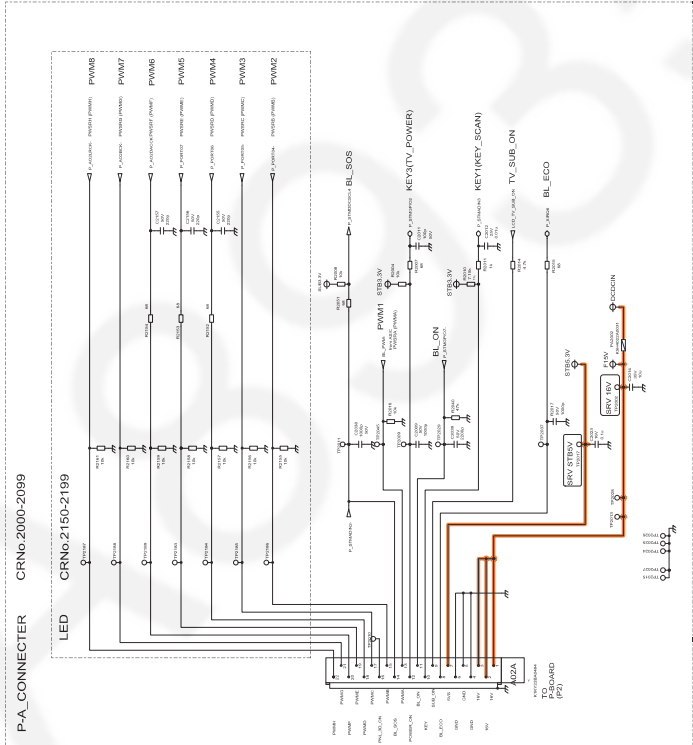
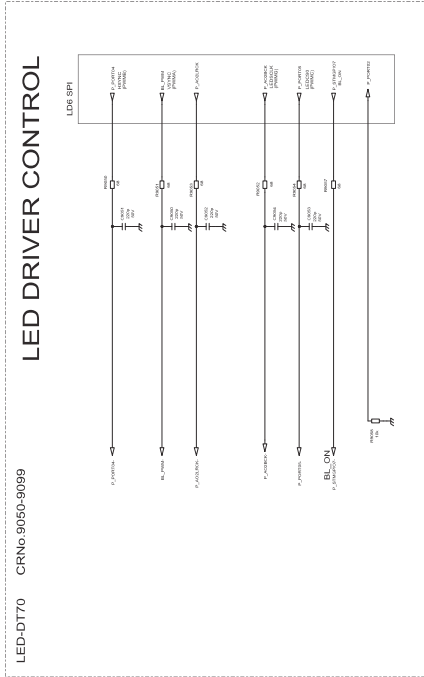
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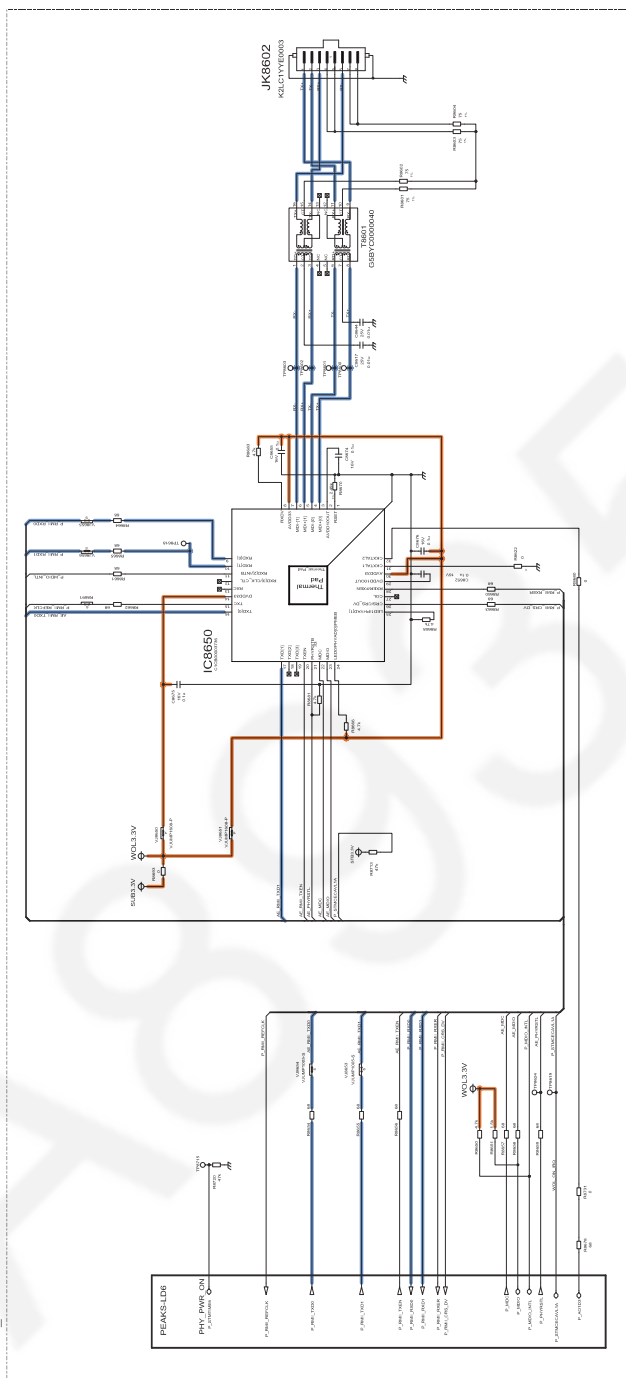
TERMINAL/AVSW
CRNo:3000-3399

A-BOARD (6/13)

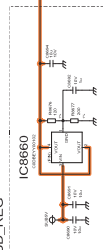


SET
CRNo:2000 - 2499

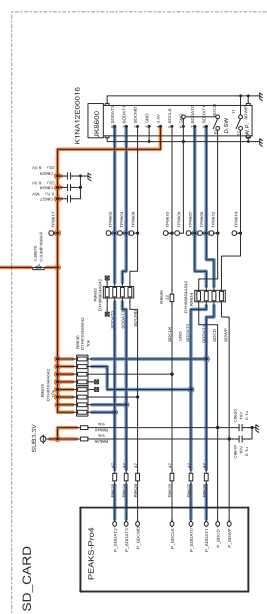
ETHER_PHY



SD_REG



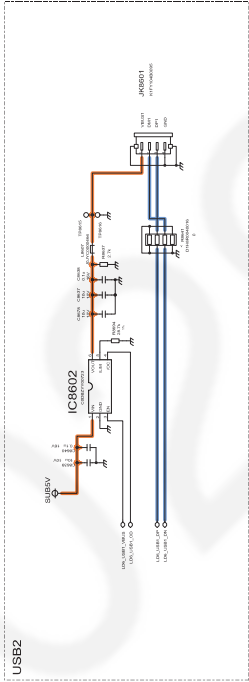
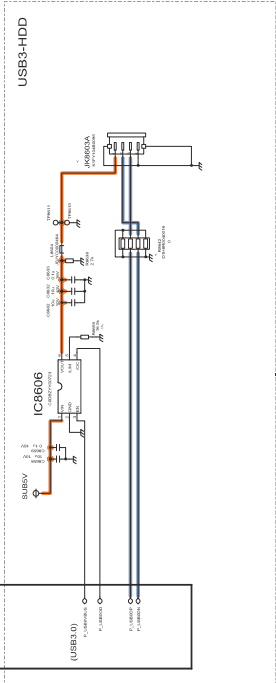
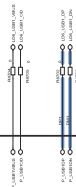
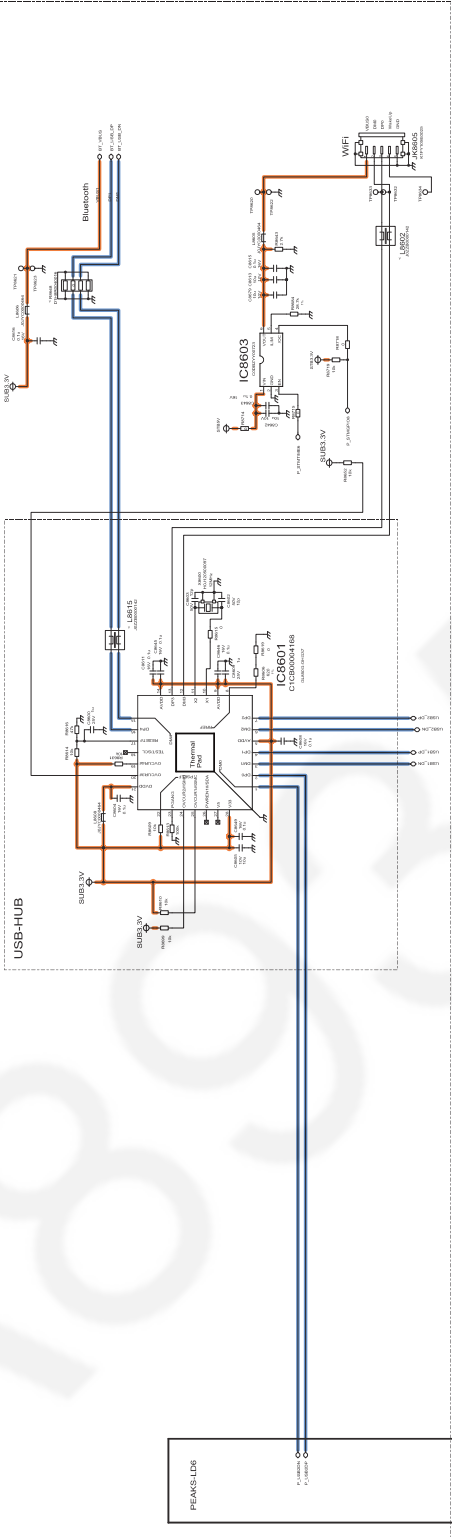
IC8660

COMMON_EtherPHY/USB/SD
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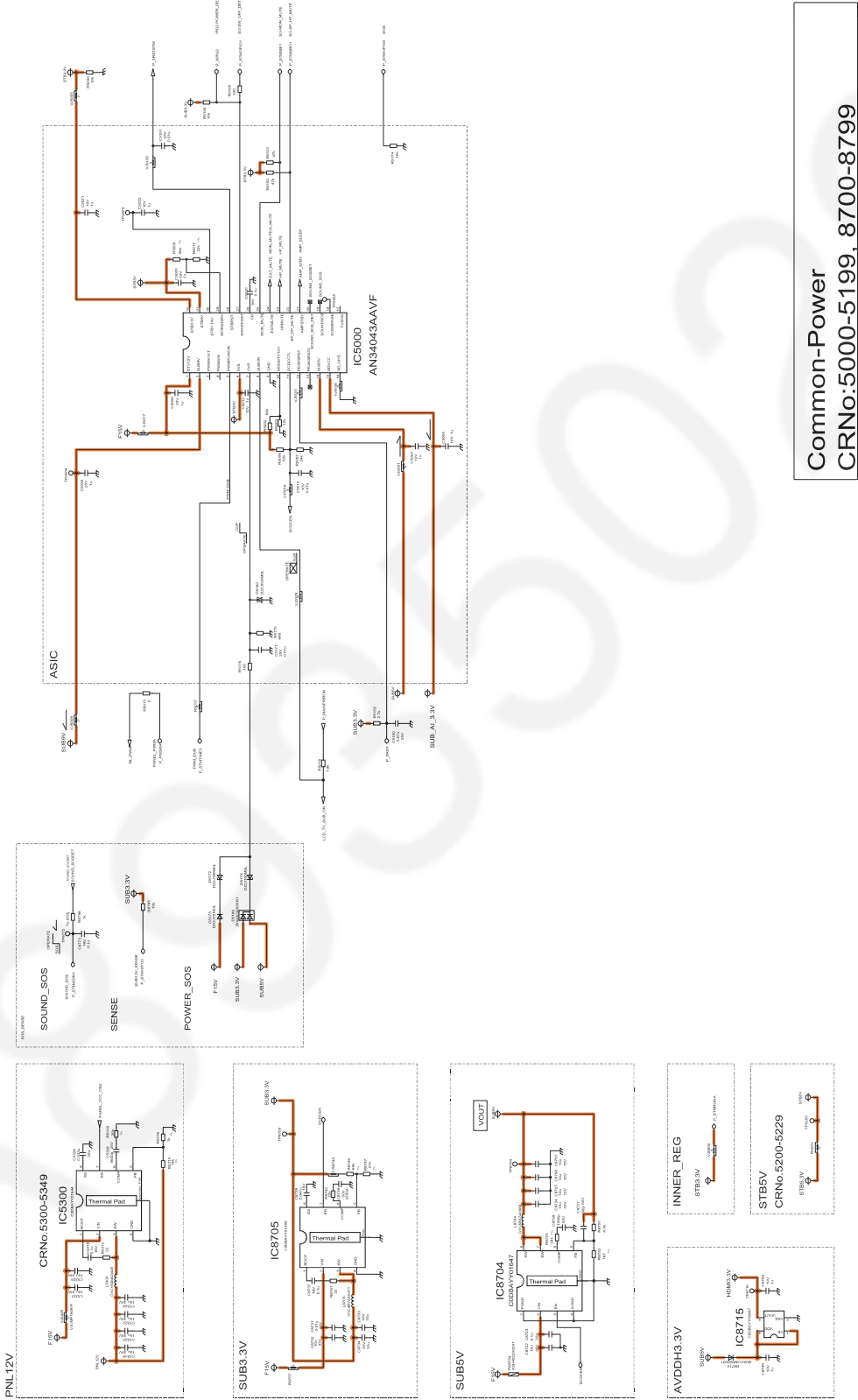
A-BOARD (8/13)

COMMON_EtherPHY/USB/SD
CRNo:8600-8699

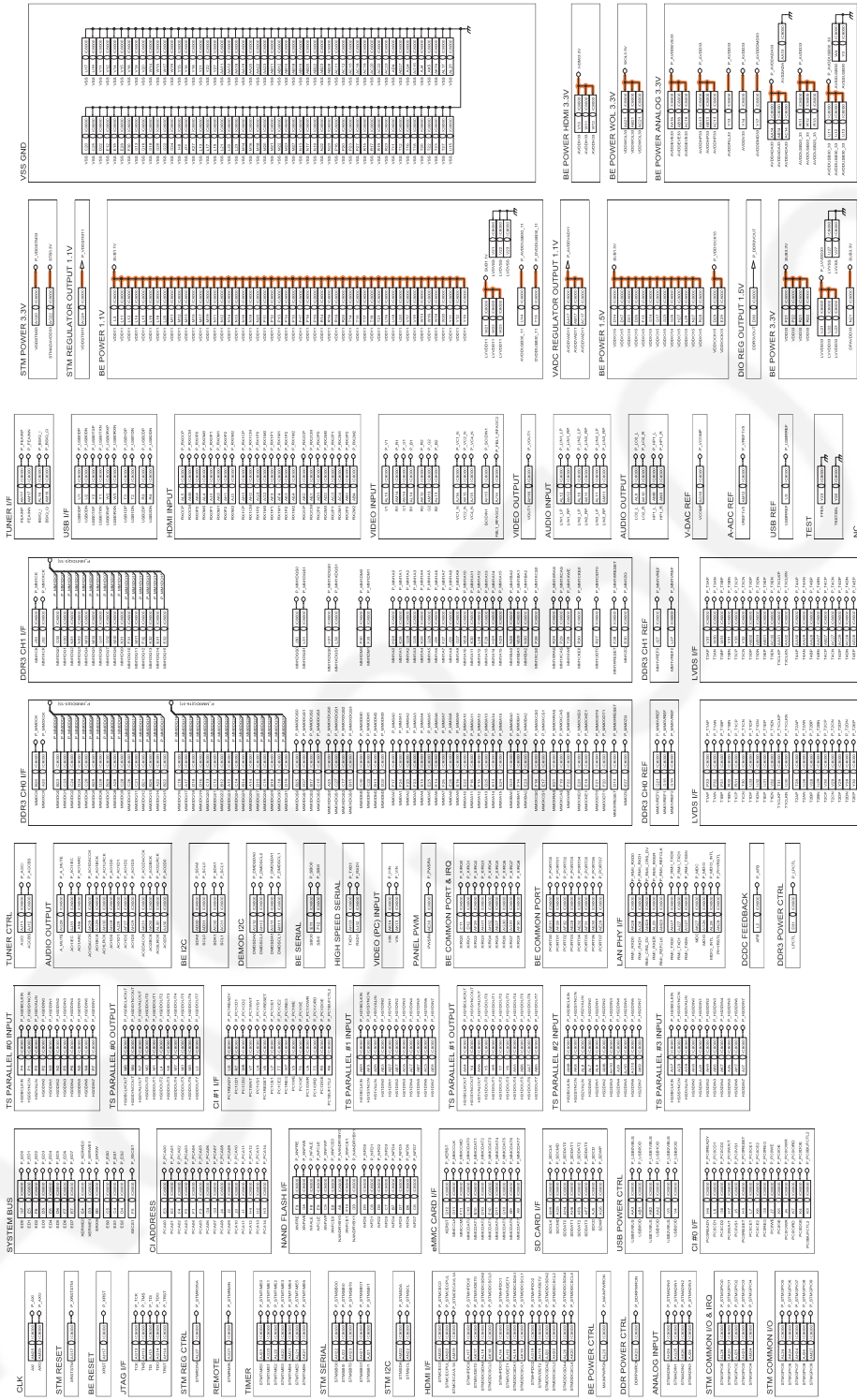
USB-BT-WIFI



A-BOARD (9/13)

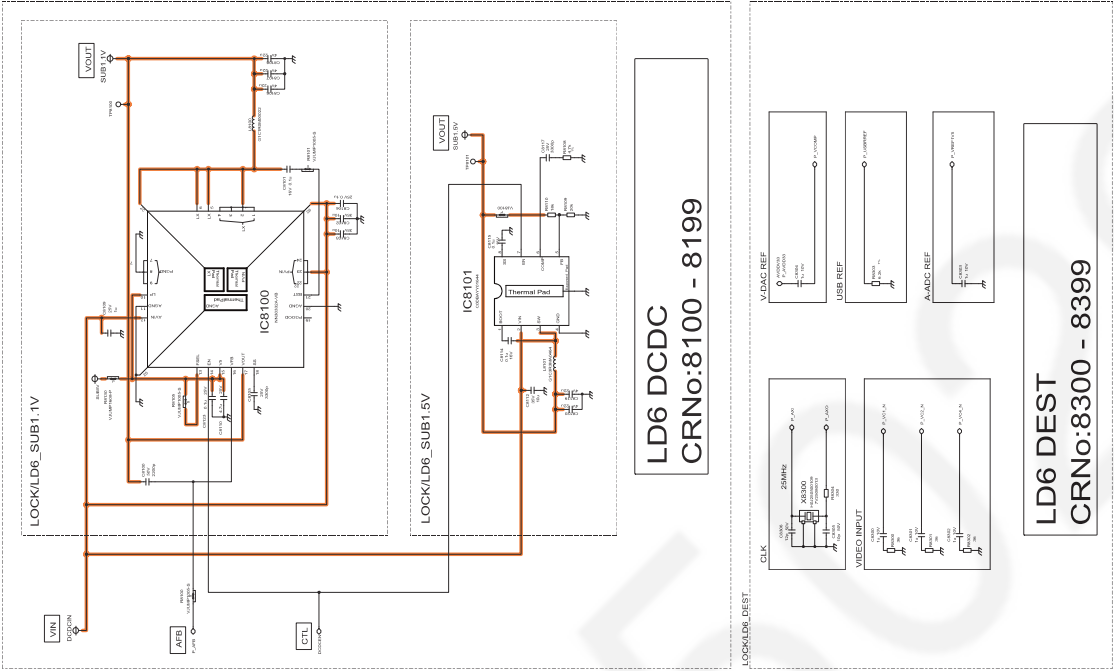
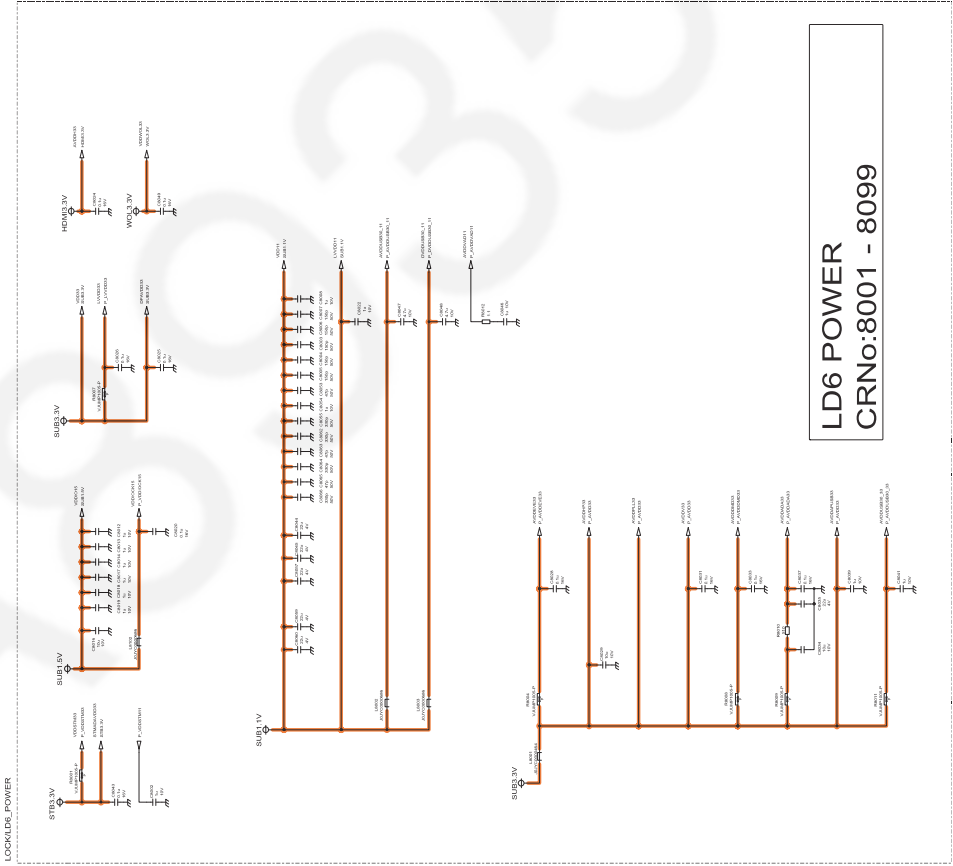


IC8000
M20V05258PK



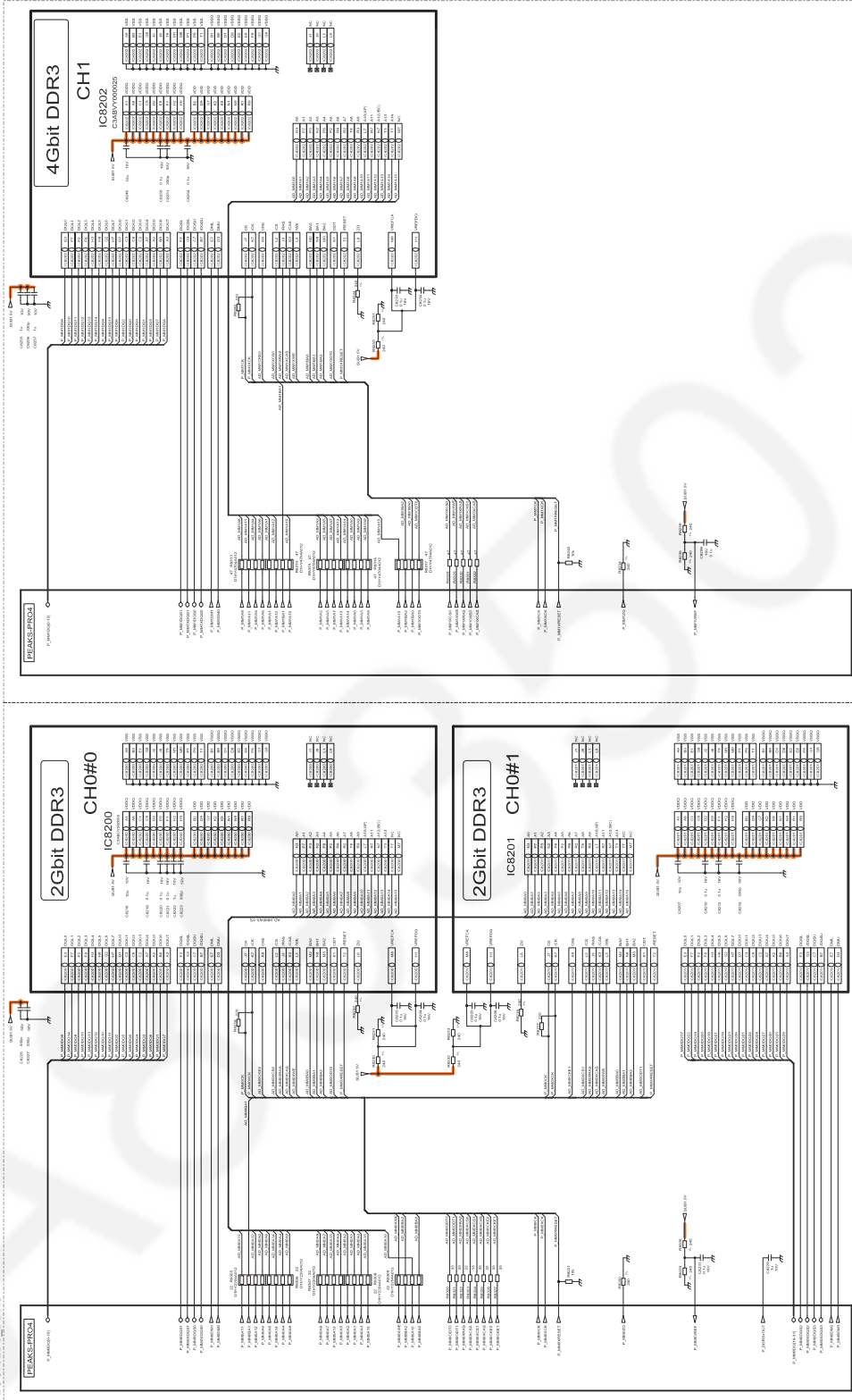
PeaksLD6
CRNo:8000

A-BOARD (11/13)



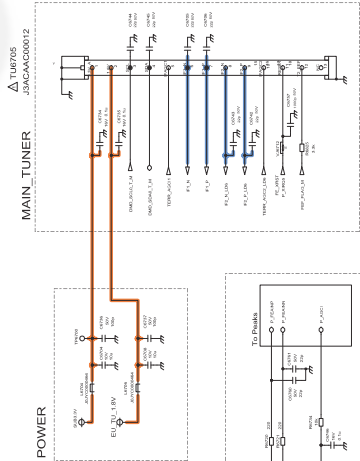
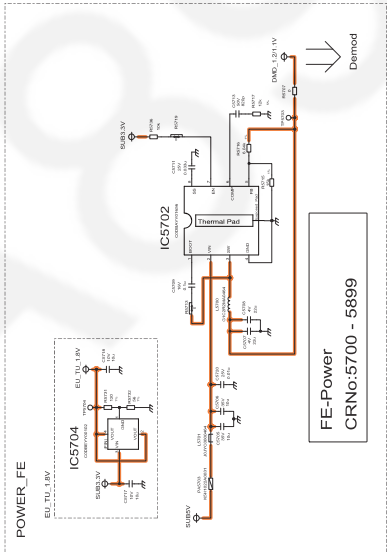
1 A-BOARD (12/13)

LOCK/D6 DDR3

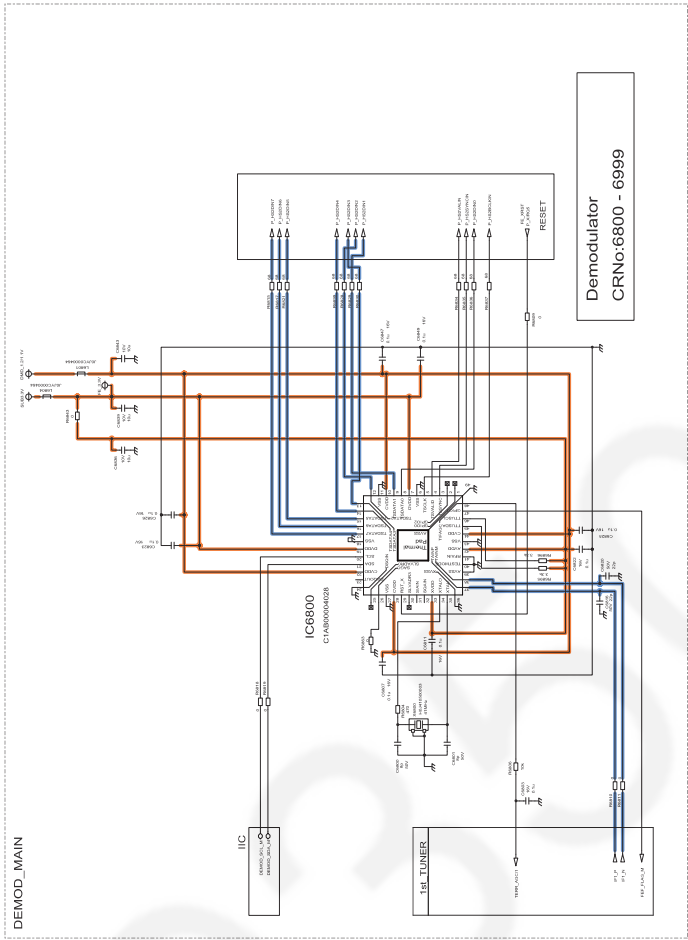
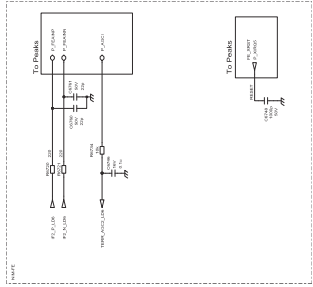


LD6 DDR3
CRNo:8200 - 8299

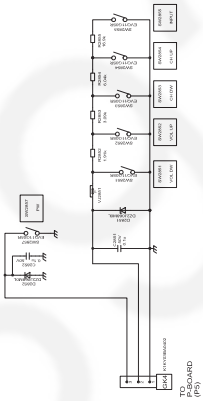
A-BOARD (13/13)



Tuner
CRNo:6700 - 6749



⚠ GK-BOARD



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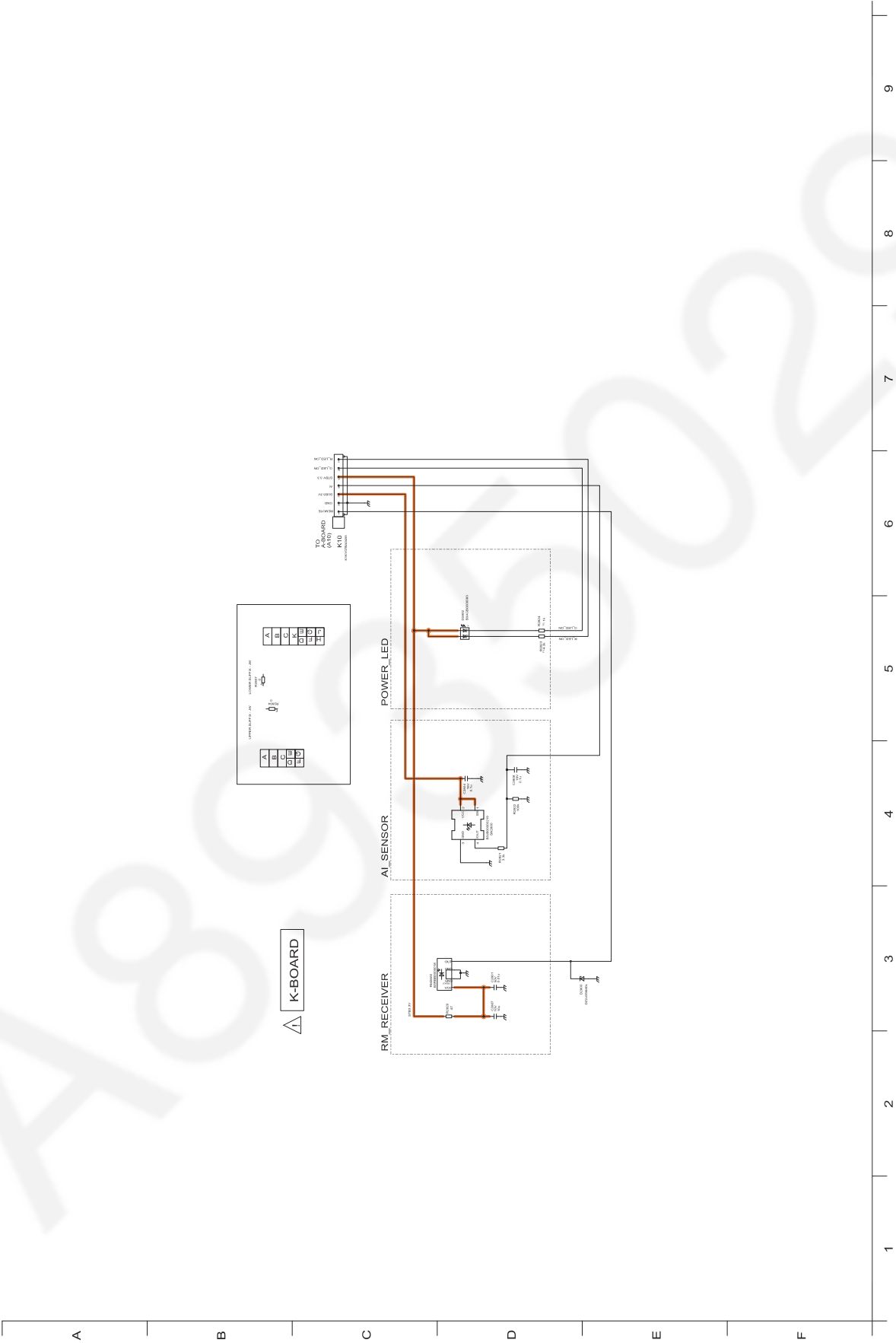
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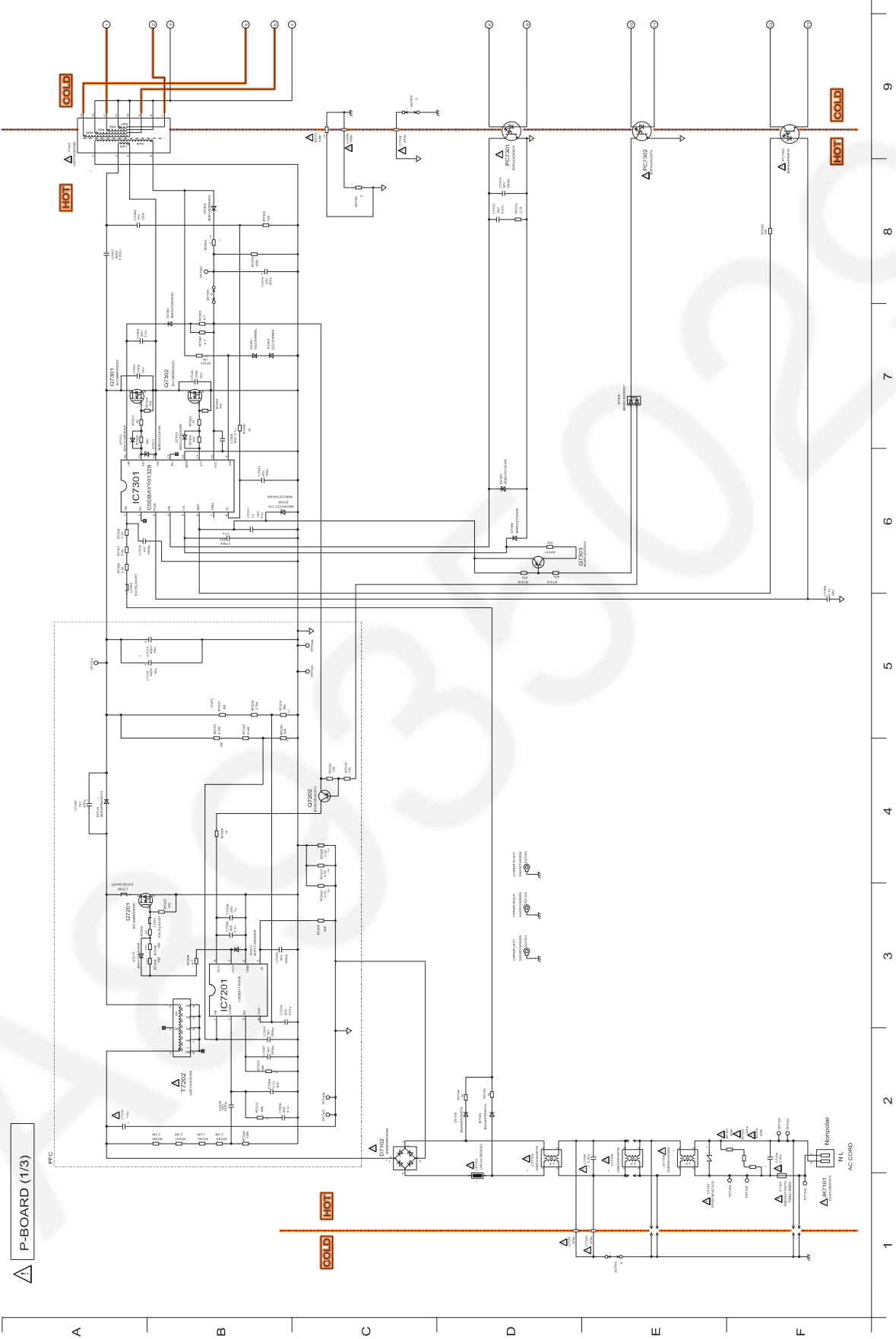
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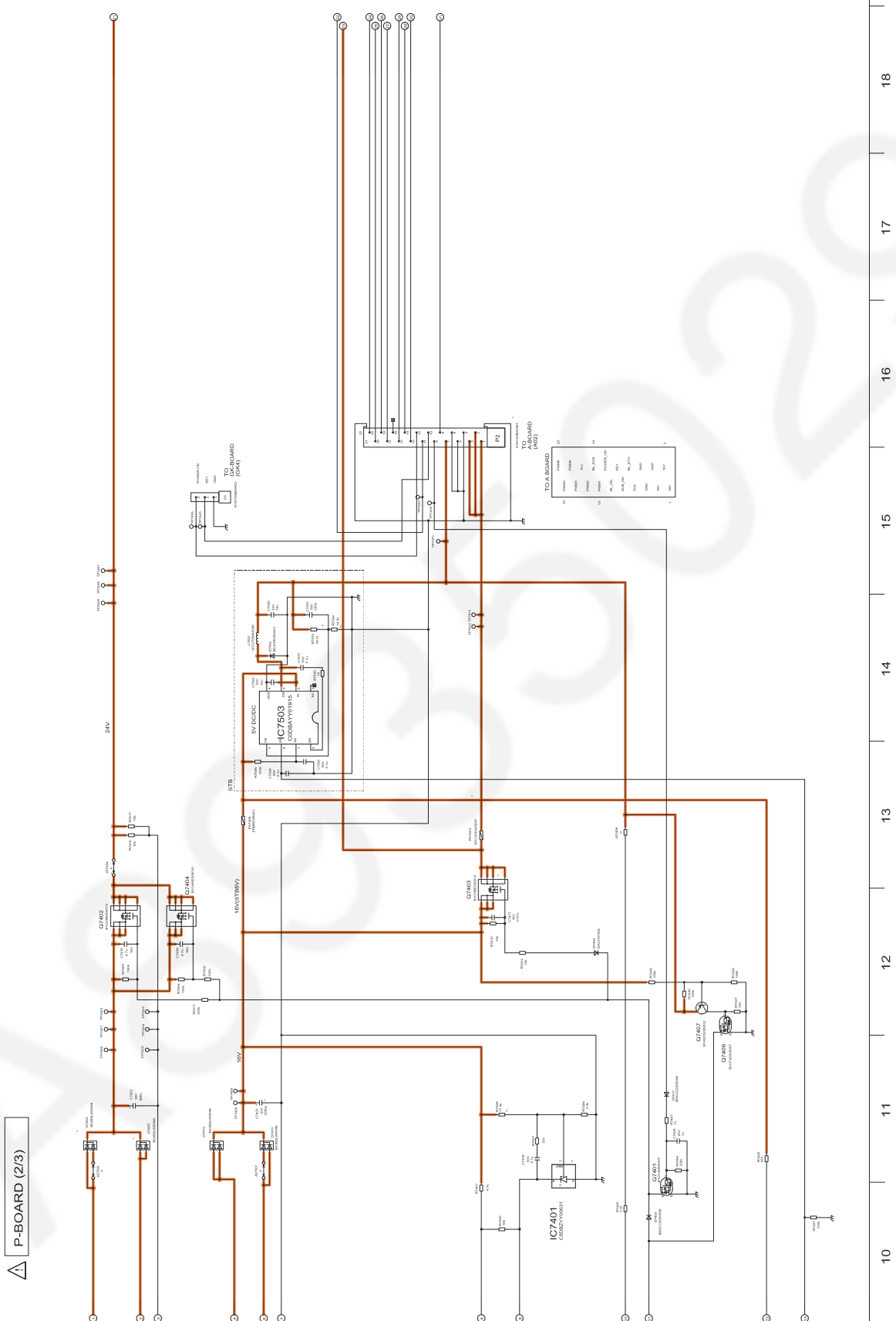
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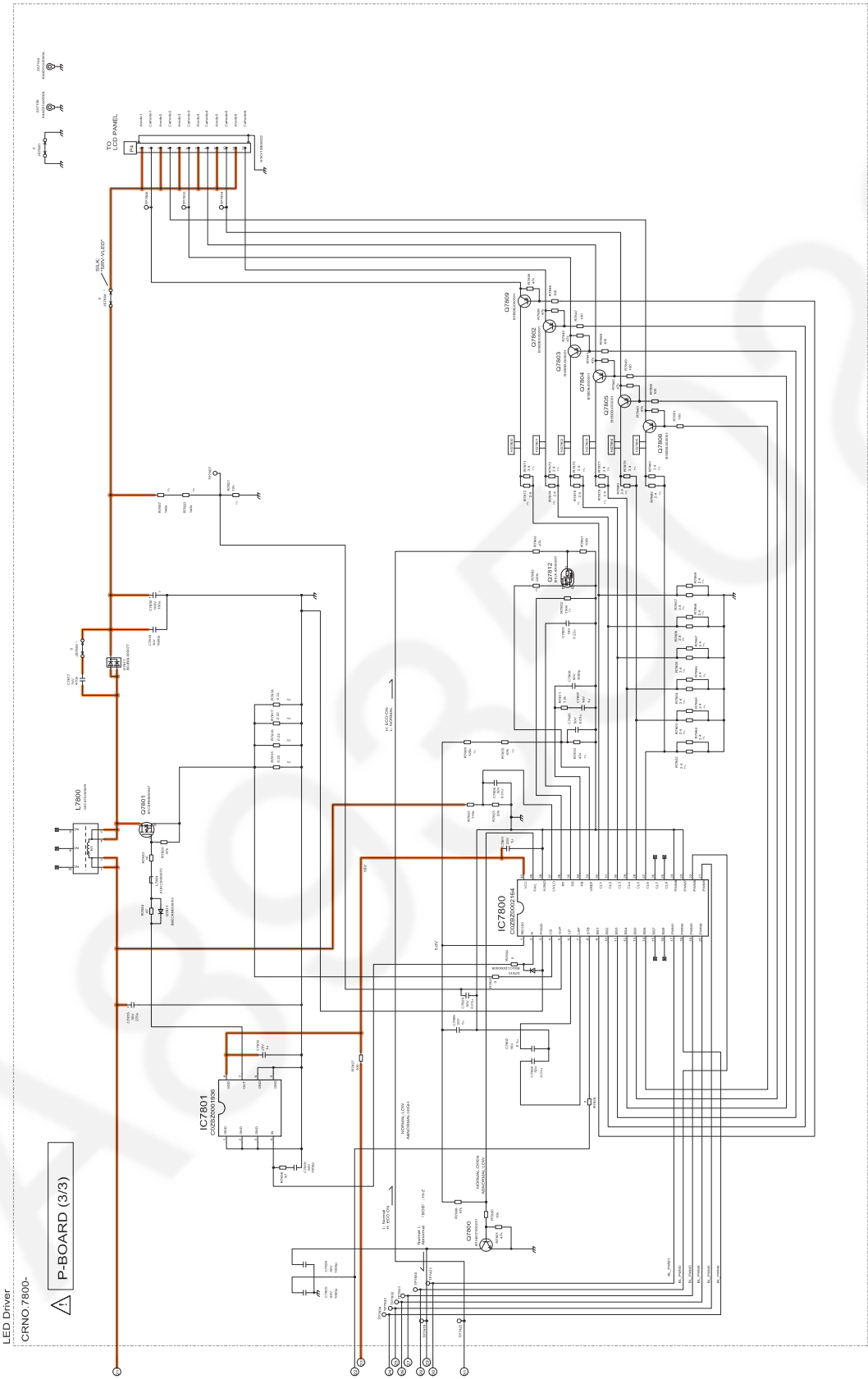
E

F



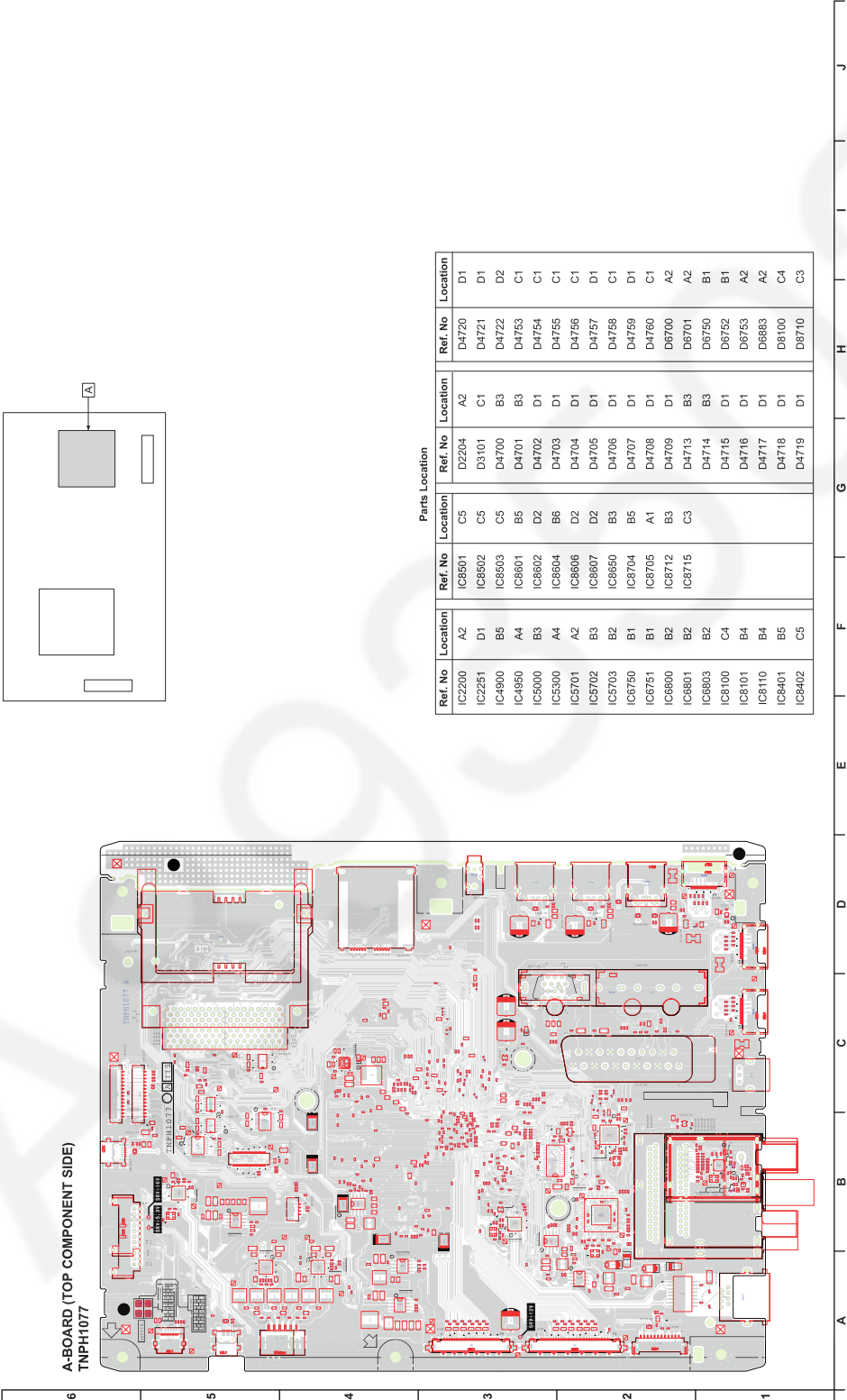


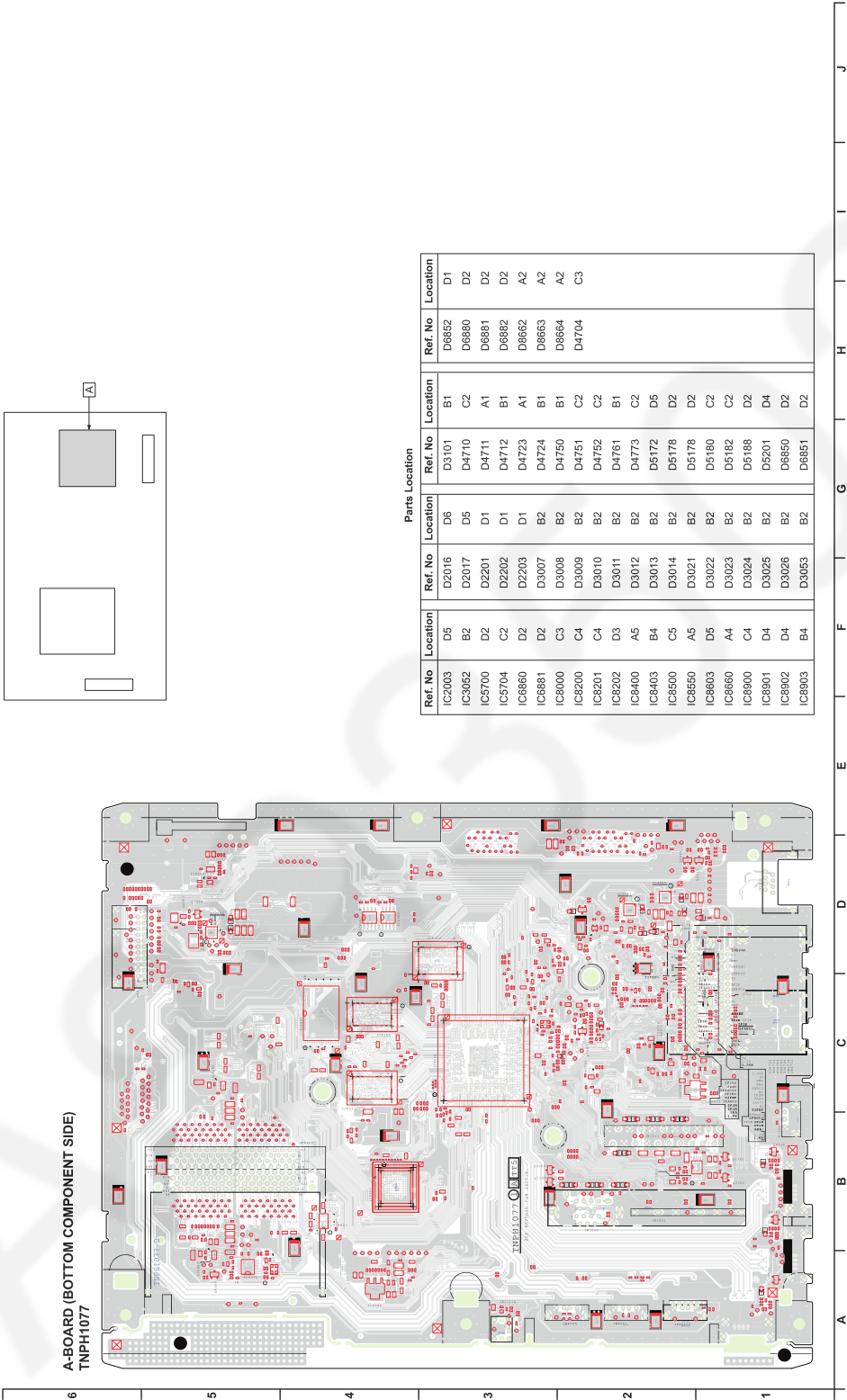


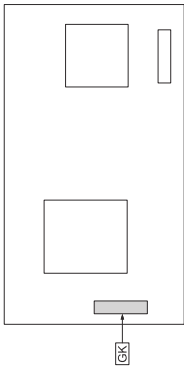


12 Printed Circuit Board

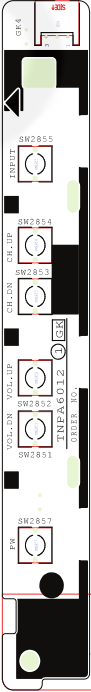
Model No. : TH-50AS670S A-Board (Top Component Side)



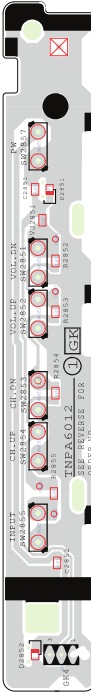




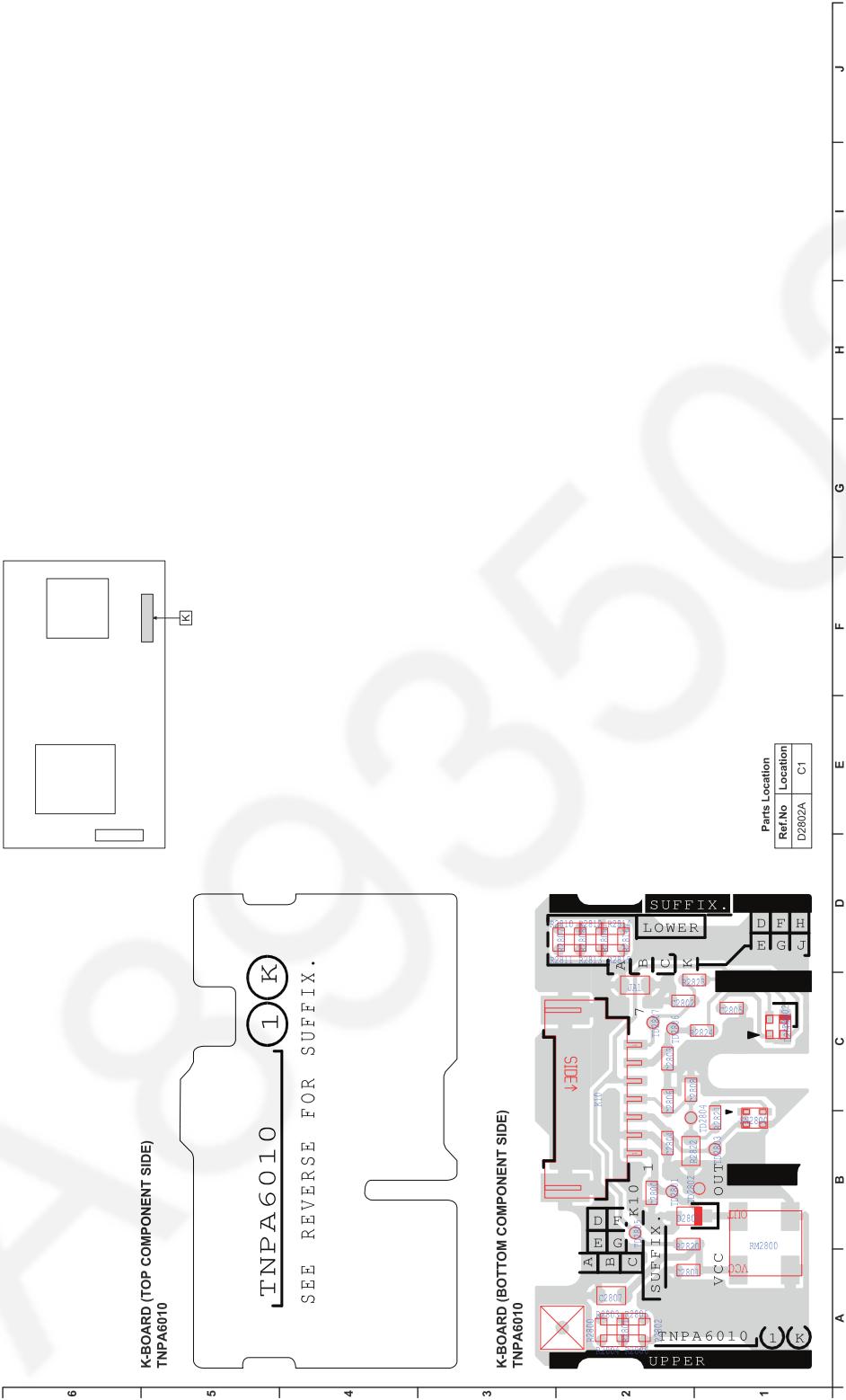
GK-BOARD (TOP COMPONENT SIDE)
TNPA6012

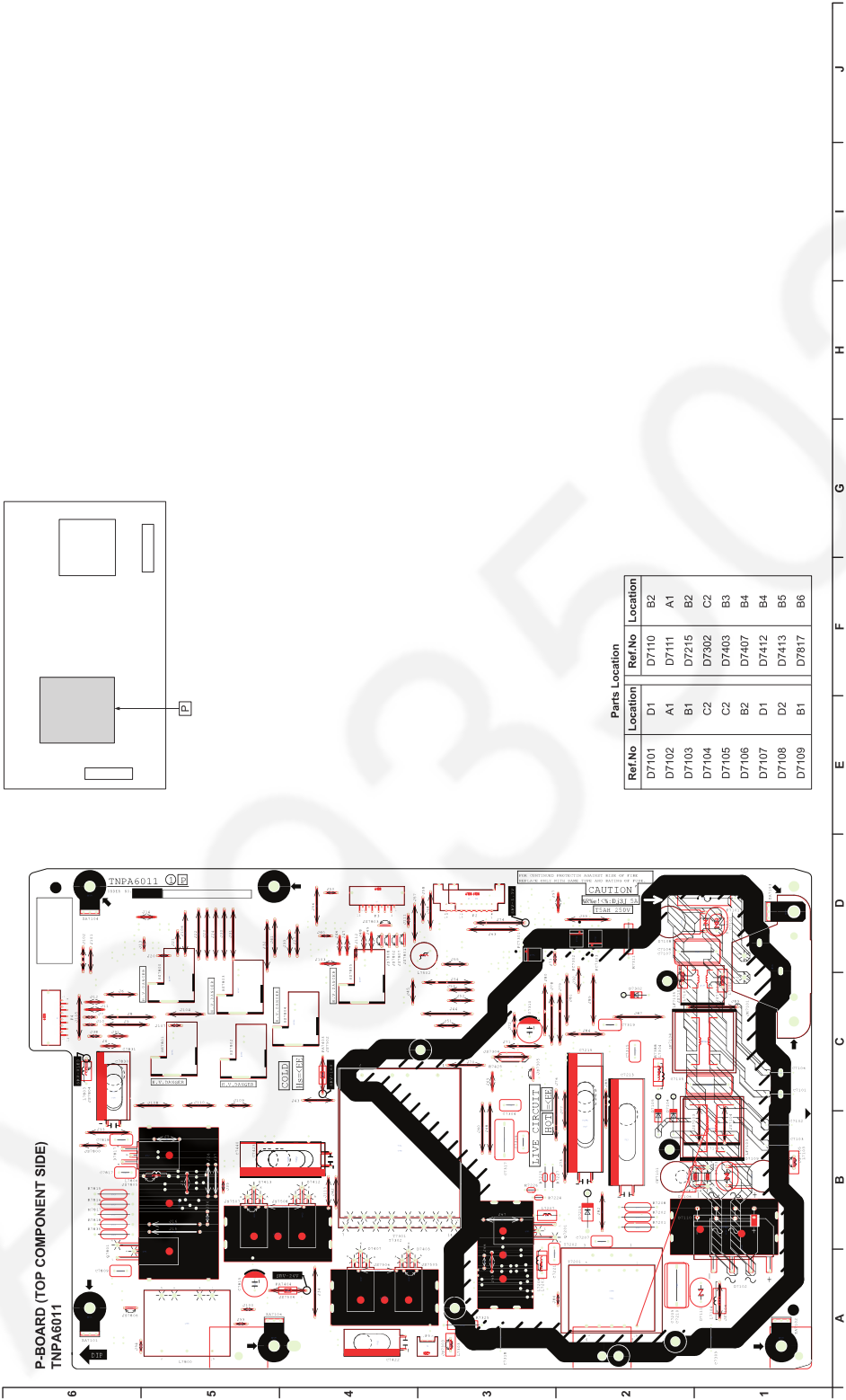


GK-BOARD (BOTTOM COMPONENT SIDE)
TNPA6012



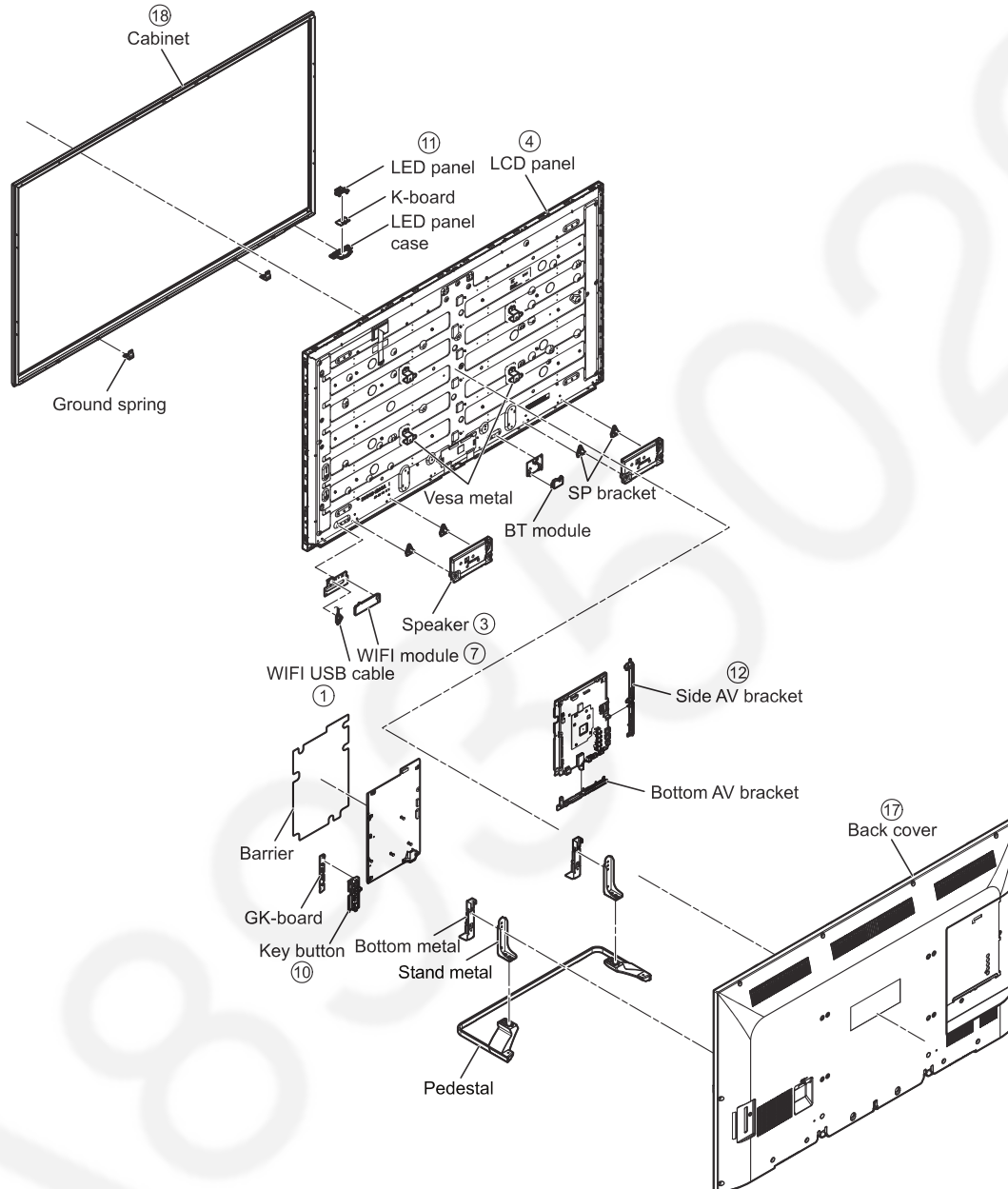
Parts Location	
Ref.No	Location
D2851	D1
D2852	A1





13 Exploded View and Replacement Parts List

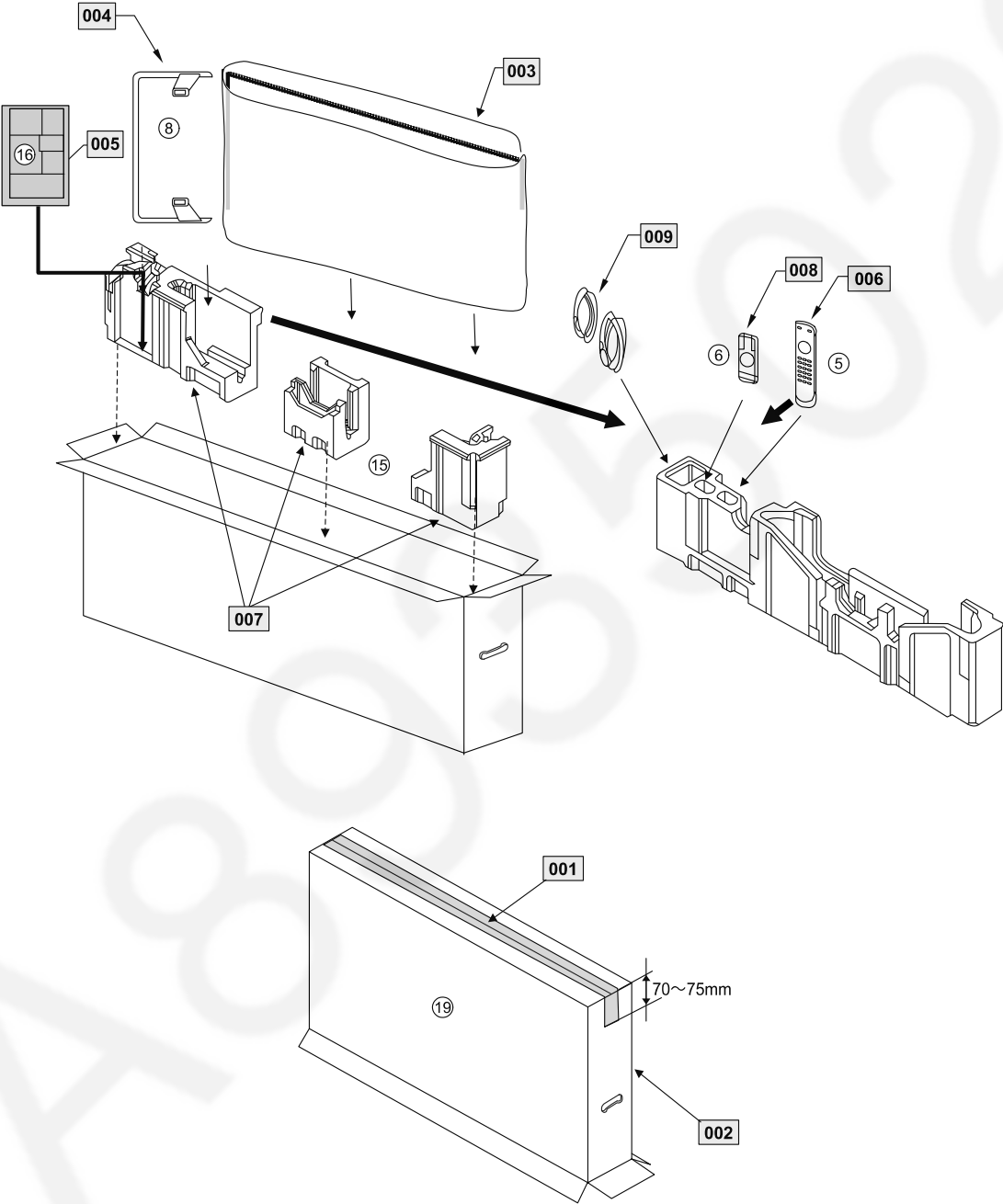
Model No. : TH-50AS670S Parts Location



Model No. : TH-50AS670S 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.

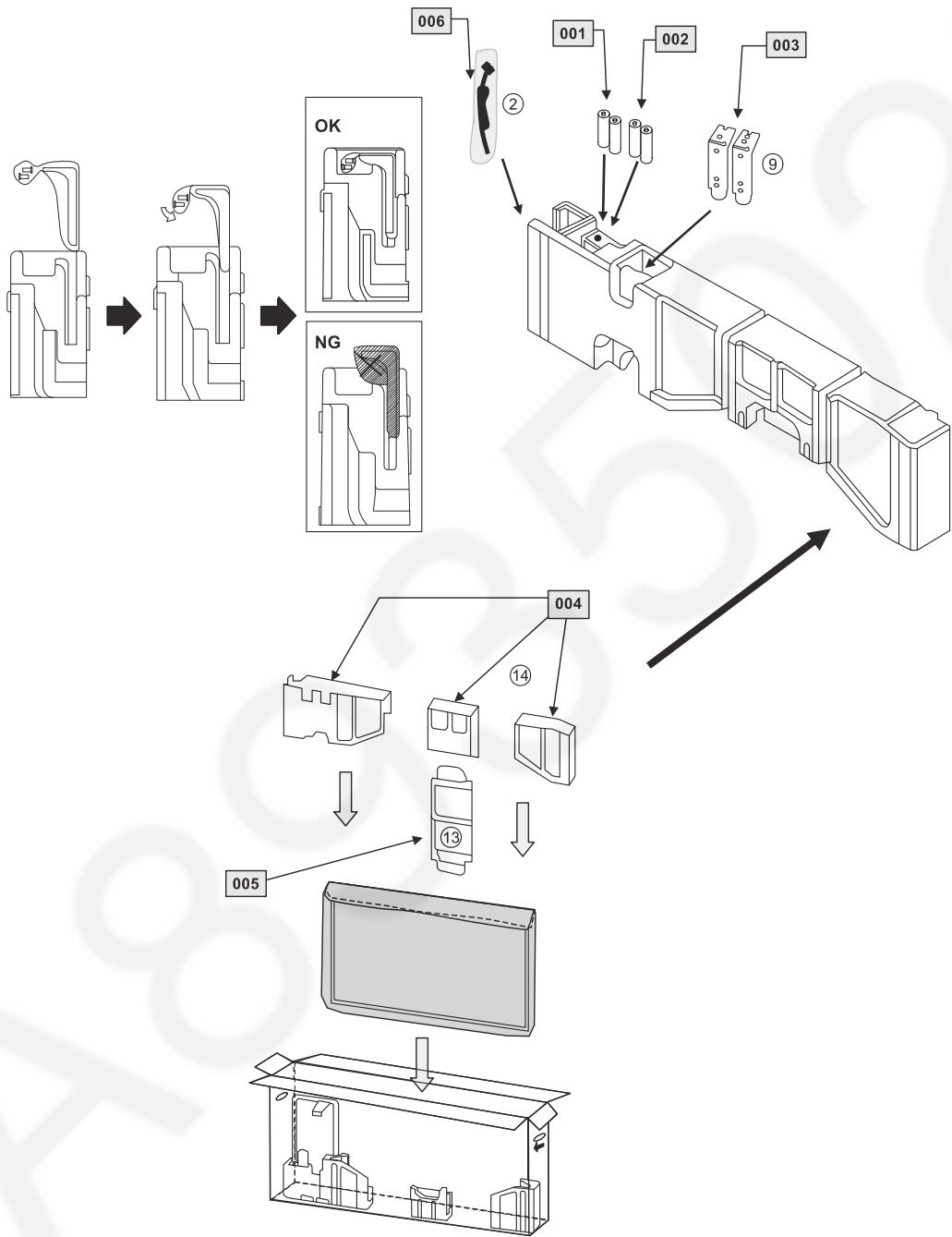
No.	Description	Qty	UOM
001	PP TAPE(TOP1.64/BTM1.64)	3.29	PC
002	CARTON	1	PC
003	SET BAG	1	PC
004	PACKED PEDESTAL ASSY	1	PC
005	FAN BAG ASSY	1	PC
006	REMOTE TRANSMITTER	1	PC
007	CUSHION BOTTOM	1	PC
008	TOUCH REMOTE	1	PC
009	3D GLASS	2	PC



Model No. : TH-50AS670S Packing Exploded View 2

Locate accessories into top & btm cushion accordingly.

No	Description	Qty	UOM
001	BATTERY	1	PC
002	R03NWC/2SK BATTERY	1	PC
003	STAND METAL ASSY	1	PC
004	CUSHION TOP	1	PC
005	CUSHION FRONT	1	PC
006	AC CORD	1	PC



Model No. : TH-50AS670S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITORS						
		C0902	F1G1H220A948	C 22PF, 50V		
		C0903	F1G1H220A948	C 22PF, 50V		
		C0904	F1G1H220A948	C 22PF, 50V		
		C0905	F1G1H220A948	C 22PF, 50V		
		C2009	F1G1H102A946	C 1000PF, 50V		
		C2011	F1G1H101A948	C 100PF, 50V		
		C2012	F1G1E103A172	C 0.01UF, 50V		
		C2014	F1K1V106A010	C 10UF, 25V		
		C2023	F1G1C104A146	C 0.1UF 16V		
		C2038	F1G1H102A946	C 1000PF, 50V		
		C2039	F1G1H222A946	C 2200PF, 50V		
		C2155	F1G1H221A834	C 220PF, 50V		
		C2156	F1G1H221A834	C 220PF, 50V		
		C2157	F1G1H221A834	C 220PF, 50V		
		C2209	F1G1E103A172	C 0.01UF, 50V		
		C2210	F1J0J2260004	C 22 UF 6.3 V		
		C2213	F1G1E103A172	C 0.01UF, 50V		
		C2214	F1G1E103A172	C 0.01UF, 50V		
		C2801	F1H1H103B047	C 0.01UF, 50V		
		C2804	F1H1C104A178	C 0.1UF, 16V		
		C2807	F1J1A106A043	C 10UF, 10V		
		C2808	F1H1C104A178	C 0.1UF, 16V		
		C2851	F1J1H104A902	C 0.1UF, 50V		
		C2852	F1J1H104A902	C 0.1UF, 50V		
		C3000	F1G1C104A146	C 0.1UF 16V		
		C3036	F1G1A105A047	C 1UF 10V		
		C3037	F1G1A105A047	C 1UF 10V		
		C3101	F1G1H471A834	C 470PF, 50V		
		C3105	F1G1H471A834	C 470PF, 50V		
		C3174	F1G1A105A047	C 1UF 10V		
		C3175	F1G1A105A047	C 1UF 10V		
		C3176	F1G1A105A047	C 1UF 10V		
		C4004	F1K1V106A010	C 10UF, 25V		
		C4005	F1K1V106A010	C 10UF, 25V		
		C4006	F1G1E103A172	C 0.01UF, 50V		
		C4008	F1G1E103A172	C 0.01UF, 50V		
		C4701	F1G1A105A047	C 1UF 10V		
		C4906	F1H1E105A153	C 1UF, 16V		
		C4909	F1J1E105A287	C 1UF, 25V		
		C4910	F1H1E104A161	C 0.1UF, 25V		
		C4914	F1K1V106A010	C 10UF, 25V		
		C4916	F1H1E104A161	C 0.1UF, 25V		
		C4919	F1J1E105A287	C 1UF, 25V		
		C4924	F1H1E104A161	C 0.1UF, 25V		
		C4926	F1K1V106A010	C 10UF, 25V		
		C4928	F1J1E105A287	C 1UF, 25V		
		C4930	F1K1V106A010	C 10UF, 25V		
		C4933	F1H1E104A161	C 0.1UF, 25V		
		C4934	F1J1E105A287	C 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	F1H1E105A153	C 1UF, 16V		
		C5012	F1G1A105A047	C 1UF 10V		
		C5013	F1G1A474A070	C 0.47UF, 10V		
		C5020	F1G1C104A146	C 0.1UF 16V		
		C5021	F1G1A105A047	C 1UF 10V		
		C5022	F1G1A105A047	C 1UF 10V		
		C5026	F1H1E105A153	C 1UF, 16V		

Model No. : TH-50AS670S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5150	F1G1E103A172	C 0.01UF, 50V		
		C5151	F1G1E103A172	C 0.01UF, 50V		
		C5171	F1G1E103A172	C 0.01UF, 50V		
		C5318	F1G1C104A146	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	F1G1E562A086	C 5600pF 25V		
		C5329	F1G1E333A144	C 0.033UF 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	F1G1C104A146	C 0.1UF 16V		
		C5711	F1G1E333A144	C 0.033UF 25V		
		C5713	F1G1H821A830	C 820 pF 50 V		
		C5717	F1J1A106A043	C 10UF, 10V		
		C5718	F1J1A106A043	C 10UF, 10V		
		C5720	F1G1E103A172	C 0.01UF, 50V		
		C6704	F1J1A106A043	C 10UF, 10V		
		C6705	F1G1H220A948	C 22PF, 50V		
		C6706	F1G1H220A948	C 22PF, 50V		
		C6708	F1J1A106A043	C 10UF, 10V		
		C6722	F1G1C104A146	C 0.1UF 16V		
		C6734	F1G1C104A146	C 0.1UF 16V		
		C6735	F1G1C104A146	C 0.1UF 16V		
		C6736	F1G1H101A948	C 100PF, 50V		
		C6737	F1G1H101A948	C 100PF, 50V		
		C6742	F1G1H220A948	C 22PF, 50V		
		C6743	F1G1H220A948	C 22PF, 50V		
		C6744	F1G1H220A948	C 22PF, 50V		
		C6745	F1G1H220A948	C 22PF, 50V		
		C6746	F1G1C104A146	C 0.1UF 16V		
		C6748	F1G1H102A946	C 1000PF, 50V		
		C6757	F1G1H102A946	C 1000PF, 50V		
		C6760	F1G1H220A948	C 22PF, 50V		
		C6761	F1G1H220A948	C 22PF, 50V		
		C6800	F1G1H8R0A833	C 8PF, 50V		
		C6801	F1G1H8R0A833	C 8PF, 50V		
		C6803	F1G1C104A146	C 0.1UF 16V		
		C6807	F1G1C104A146	C 0.1UF 16V		
		C6811	F1G1C104A146	C 0.1UF 16V		
		C6816	F1G1H220A948	C 22PF, 50V		
		C6820	F1G1H220A948	C 22PF, 50V		
		C6822	F1G1C104A146	C 0.1UF 16V		
		C6823	F1G1C104A146	C 0.1UF 16V		
		C6825	F1G1C104A146	C 0.1UF 16V		
		C6826	F1G1C104A146	C 0.1UF 16V		
		C6836	F1J1A106A043	C 10UF, 10V		
		C6839	F1J1A106A043	C 10UF, 10V		
		C6843	F1J1A106A043	C 10UF, 10V		
		C6847	F1G1C104A146	C 0.1UF 16V		
		C6849	F1G1C104A146	C 0.1UF 16V		
		C7102	F1AAF471A019	C 470PF, 240V		
		C7103	F1AAF471A019	C 470PF, 240V		
		C7104	F0CAF3340009	C 0.33UF, 240V		
		C7105	F0CAF3340009	C 0.22UF, 250V		
		C7201	F1H1H102B052	C 1000PF, 50V		
		C7202	F1H1H102B052	C 1000PF, 50V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7203	F1H1H104B047	C 0.1UF, 50V		
		C7204	F1H1H104B047	C 0.1UF, 50V		
		C7205	F1H1H102B052	C 1000PF, 50V		
		C7206	F1H1H104B047	C 0.1UF, 50V		
		C7207	F1A3A471A060	C 470PF 1KV		
		C7208	F1J1E105A287	C 1UF, 25V		
		C7210	ECWFD2W155KC	C 1.5UF, 240V		
		C7213	F2A2W6500001	C 65UF, 450V		
		C7214	F1J1H103A900	C 0.01UF, 50V		
		C7215	F2A2W6500001	C 65UF, 450V		
		C7220	F1J1H222A911	C 2200pF, 50V		
		C7302	F1J1H104A902	C 0.1UF, 50V		
		C7303	F1J1H104A902	C 0.1UF, 50V		
		C7304	F1A3A221A060	C 220PF 1KV		
		C7305	F1H1H104B047	C 0.1UF, 50V		
		C7306	F1J1H104A902	C 0.1UF, 50V		
		C7307	F1H1H101B052	C 100PF, 50V		
		C7309	F1AAF101A019	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	F1A3A101A060	C 100PF 1KV		
		C7316	F1A3A101A060	C 100PF 1KV		
		C7317	ECWH8223HAC	C 0.022UF, Z, 800V		
		C7318	F1AAF471A019	C 470PF, 240V		
		C7319	F1A3A102A060	C 1000PF 1KV		
		C7416	F1J1C475A225	C 4.7UF, 10V		
		C7417	F1H1C474A178	C 0.47UF, 16V		
		C7418	F1H1H104B047	C 0.1UF, 50V		
		C7422	F2A1V6810043	C 680UF, 35V		
		C7423	F2A1E222B927	C 2200UF, 25V		
		C7434	F1J1E105A287	C 1UF, 25V		
		C7439	F1J1C475A225	C 4.7UF, 10V		
		C7522	F1K1E106A167	C 10UF, 25V		
		C7524	F1H1H104B047	C 0.1UF, 50V		
		C7525	F1H1H221B052	C 220PF, 50V		
		C7526	F1J1A106A111	C 10UF, 10V		
		C7530	F1H1H104B047	C 0.1UF, 50V		
		C7531	F1H1H104B047	C 0.1UF, 50V		
		C7801	F1J1E105A287	C 1UF, 25V		
		C7802	F1H1C104A178	C 0.1UF, 16V		
		C7803	F1H1C224A178	C 0.22 uF 16 V		
		C7804	F1H1H103B047	C 0.01UF, 50V		
		C7805	F1H1H103B047	C 0.01UF, 50V		
		C7806	F1J1E105A287	C 1UF, 25V		
		C7807	F1H1C105A179	C 1 uF 16 V		
		C7808	F1H1H102B048	C 1000PF, 50V		
		C7815	F2A1V2710019	C 270UF, 35V		
		C7816	F1H1H102B048	C 1000PF, 50V		
		C7817	F1A3A471A060	C 470PF 1KV		
		C7818	F1A3A102A060	C 1000PF 1KV		
		C7824	F1H1H102B048	C 1000PF, 50V		
		C7825	F1H1H102B048	C 1000PF, 50V		
		C7828	F1H1H103B047	C 0.01UF, 50V		
		C7829	F1H1H103B047	C 0.01UF, 50V		
		C7830	F2A2A1010047	C 100UF, 100V		
		C7832	F1K1E105A167	C 1UF, 25V		
		C8002	F1G1A105A047	C 1UF 10V		
		C8003	F1G1H151A834	C 150PF, 50V		
		C8004	F1G1H151A834	C 150PF, 50V		
		C8005	F1G1H151A834	C 150PF, 50V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8006	F1G1H151A834	C 150PF, 50V		
		C8007	F1G1H151A834	C 150PF, 50V		
		C8008	F1G1A105A047	C 1UF 10V		
		C8012	F1G1A105A047	C 1UF 10V		
		C8013	F1G1A105A047	C 1UF 10V		
		C8014	F1G1A105A047	C 1UF 10V		
		C8016	F1J1A106A043	C 10UF, 10V		
		C8017	F1G1A105A047	C 1UF 10V		
		C8018	F1G1A105A047	C 1UF 10V		
		C8019	F1G1A105A047	C 1UF 10V		
		C8020	F1G1C104A146	C 0.1UF 16V		
		C8022	F1G1A105A047	C 1UF 10V		
		C8024	F1G1C104A146	C 0.1UF 16V		
		C8025	F1G1C104A146	C 0.1UF 16V		
		C8026	F1G1C104A146	C 0.1UF 16V		
		C8028	F1G1C104A146	C 0.1UF 16V		
		C8029	F1J1A106A043	C 10UF, 10V		
		C8031	F1G1C104A146	C 0.1UF 16V		
		C8033	F1G1C104A146	C 0.1UF 16V		
		C8034	F1J1A106A043	C 10UF, 10V		
		C8035	F1J0G2260001	C 22 UF 4 V		
		C8037	F1G1C104A146	C 0.1UF 16V		
		C8039	F1G1A105A047	C 1UF 10V		
		C8041	F1G1A105A047	C 1UF 10V		
		C8043	F1G1C104A146	C 0.1UF 16V		
		C8044	F1J0G2260001	C 22 UF 4 V		
		C8045	F1J0G2260001	C 22 UF 4 V		
		C8046	F1G1A105A047	C 1UF 10V		
		C8047	F1H1A475A102	C 4.7UF, 10V		
		C8048	F1H1A475A102	C 4.7UF, 10V		
		C8049	F1G1C104A146	C 0.1UF 16V		
		C8053	F1G1H470A834	C 47PF, 50V		
		C8054	F1G1A105A047	C 1UF 10V		
		C8055	F1G1H331A830	C 330PF, 50V		
		C8057	F1J0G2260001	C 22 UF 4 V		
		C8059	F1J0G2260001	C 22 UF 4 V		
		C8060	F1J0G2260001	C 22 UF 4 V		
		C8062	F1G1H331A830	C 330PF, 50V		
		C8063	F1G1H470A834	C 47PF, 50V		
		C8064	F1G1H331A830	C 330PF, 50V		
		C8065	F1G1H470A834	C 47PF, 50V		
		C8066	F1G1H331A830	C 330PF, 50V		
		C8100	F1G1H222A946	C 2200PF, 50V		
		C8101	F1G1C104A146	C 0.1UF 16V		
		C8102	F1K1V106A010	C 10UF, 25V		
		C8103	F1K1V106A010	C 10UF, 25V		
		C8104	F1H1E104A161	C 0.1UF, 25V		
		C8105	F1G1E332A172	C 3300PF, 25V		
		C8106	F1J0G2260001	C 22 UF 4 V		
		C8107	F1J0G2260001	C 22 UF 4 V		
		C8108	F1J0G2260001	C 22 UF 4 V		
		C8109	F1H1E105A153	C 1UF, 16V		
		C8110	F1J1E475A257	C 4.7UF, 25V		
		C8112	F1K1V106A010	C 10UF, 25V		
		C8114	F1G1C104A146	C 0.1UF 16V		
		C8115	F1G1C104A146	C 0.1UF 16V		
		C8117	F1G1E332A172	C 3300PF, 25V		
		C8119	F1J0G2260001	C 22 UF 4 V		
		C8120	F1J0G2260001	C 22 UF 4 V		
		C8123	F1H1E104A161	C 0.1UF, 25V		
		C8203	F1G1C104A146	C 0.1UF 16V		
		C8204	F1G1C104A146	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8205	F1G1C104A146	C 0.1UF 16V		
		C8206	F1G1C104A146	C 0.1UF 16V		
		C8207	F1J1A106A043	C 10UF, 10V		
		C8210	F1G1C104A146	C 0.1UF 16V		
		C8212	F1G1C104A146	C 0.1UF 16V		
		C8215	F1G1H331A830	C 330PF, 50V		
		C8216	F1J1A106A043	C 10UF, 10V		
		C8218	F1G1C104A146	C 0.1UF 16V		
		C8220	F1G1C104A146	C 0.1UF 16V		
		C8221	F1G1C104A146	C 0.1UF 16V		
		C8222	F1G1A105A047	C 1UF 10V		
		C8223	F1G1H331A830	C 330PF, 50V		
		C8226	F1G1H331A830	C 330PF, 50V		
		C8227	F1G1H331A830	C 330PF, 50V		
		C8229	F1G1A105A047	C 1UF 10V		
		C8231	F1G1C104A146	C 0.1UF 16V		
		C8233	F1G1C104A146	C 0.1UF 16V		
		C8234	F1G1C104A146	C 0.1UF 16V		
		C8246	F1J1A106A043	C 10UF, 10V		
		C8250	F1G1C104A146	C 0.1UF 16V		
		C8251	F1G1H331A830	C 330PF, 50V		
		C8254	F1G1C104A146	C 0.1UF 16V		
		C8255	F1G1A105A047	C 1UF 10V		
		C8256	F1G1H331A830	C 330PF, 50V		
		C8257	F1G1A105A047	C 1UF 10V		
		C8259	F1G1C104A146	C 0.1UF 16V		
		C8300	F1G1A105A047	C 1UF 10V		
		C8301	F1G1A105A047	C 1UF 10V		
		C8302	F1G1A105A047	C 1UF 10V		
		C8303	F1G1A105A047	C 1UF 10V		
		C8304	F1G1A105A047	C 1UF 10V		
		C8305	F1G1H100A948	C 10PF, 50V		
		C8306	F1G1H120A948	C 1000PF, 50V		
		C8600	F1H1E105A153	C 1UF, 16V		
		C8602	F1G1H120A948	C 1000PF, 50V		
		C8603	F1G1H120A948	C 1000PF, 50V		
		C8604	F1G1C104A146	C 0.1UF 16V		
		C8605	F1J1A106A043	C 10UF, 10V		
		C8608	F1G1C104A146	C 0.1UF 16V		
		C8609	F1H1E105A153	C 1UF, 16V		
		C8611	F1G1C104A146	C 0.1UF 16V		
		C8613	F1J1A106A043	C 10UF, 10V		
		C8615	F1G1C104A146	C 0.1UF 16V		
		C8616	F1G1C104A146	C 0.1UF 16V		
		C8617	F1G1E103A172	C 0.01UF, 50V		
		C8619	F1G1C104A146	C 0.1UF 16V		
		C8620	F1G1C104A146	C 0.1UF 16V		
		C8627	F1G1C104A146	C 0.1UF 16V		
		C8628	F1K0J226A049	C 22UF, 6.3V		
		C8629	F1K0J226A049	C 22UF, 6.3V		
		C8632	F1J1A106A043	C 10UF, 10V		
		C8633	F1G1C104A146	C 0.1UF 16V		
		C8637	F1J1A106A043	C 10UF, 10V		
		C8638	F1G1C104A146	C 0.1UF 16V		
		C8639	F1J1A106A043	C 10UF, 10V		
		C8640	F1G1C104A146	C 0.1UF 16V		
		C8642	F1J1A106A043	C 10UF, 10V		
		C8643	F1G1C104A146	C 0.1UF 16V		
		C8644	F1G1E103A172	C 0.01UF, 50V		
		C8645	F1G1C104A146	C 0.1UF 16V		
		C8646	F1G1C104A146	C 0.1UF 16V		
		C8649	F1G1C104A146	C 0.1UF 16V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8652	F1G1C104A146	C 0.1UF 16V		
		C8655	F1G1C104A146	C 0.1UF 16V		
		C8658	F1J1A106A043	C 10UF, 10V		
		C8659	F1G1C104A146	C 0.1UF 16V		
		C8674	F1G1C104A146	C 0.1UF 16V		
		C8675	F1G1C104A146	C 0.1UF 16V		
		C8676	F1G1C104A146	C 0.1UF 16V		
		C8678	F1J1A106A043	C 10UF, 10V		
		C8679	F1J1A106A043	C 10UF, 10V		
		C8682	F1J1A106A043	C 10UF, 10V		
		C8690	F1J1A106A043	C 10UF, 10V		
		C8691	F1J1A106A043	C 10UF, 10V		
		C8692	F1G1A105A047	C 1UF 10V		
		C8694	F1J1A106A043	C 10UF, 10V		
		C8722	F1K1V106A010	C 10UF, 25V		
		C8723	F1H1E104A161	C 0.1UF, 25V		
		C8724	F1J1A106A043	C 10UF, 10V		
		C8725	F1J1A106A043	C 10UF, 10V		
		C8727	F1G1H680A834	C 68 pF 50 V		
		C8728	F1G1H102A946	C 1000PF, 50V		
		C8731	F1G1E103A172	C 0.01UF, 50V		
		C8732	F1K1V106A010	C 10UF, 25V		
		C8733	F1J1A106A043	C 10UF, 10V		
		C8734	F1J1A106A043	C 10UF, 10V		
		C8737	F1G1C104A146	C 0.1UF 16V		
		C8738	F1G1H222A946	C 2200PF, 50V		
		C8739	F1G1C473A146	C 0.047UF, 16V		
		C8749	F1G1A105A047	C 1UF 10V		
		C8750	F1G1A105A047	C 1UF 10V		
		C8773	F1G1C104A146	C 0.1UF 16V		
		C8790	F1J1A106A043	C 10UF, 10V		
		C8791	F1J1A106A043	C 10UF, 10V		
		C8903	F1G1C104A146	C 0.1UF 16V		
		C8910	F1H1E105A153	C 1UF, 16V		
		C8911	F1G1C104A146	C 0.1UF 16V		
		C8912	F1J1A106A043	C 10UF, 10V		
		C8913	F1G1C104A146	C 0.1UF 16V		
		C8914	F1J1A106A043	C 10UF, 10V		
		C8915	F1G1H100A948	C 10PF, 50V		
		C9050	F1G1H221A834	C 220PF, 50V		
		C9051	F1G1H221A834	C 220PF, 50V		
		C9052	F1G1H221A834	C 220PF, 50V		
		C9053	F1G1H221A834	C 220PF, 50V		
		C9054	F1G1H221A834	C 220PF, 50V		
DIODES						
		D2230	B0JCCE000021	DIODE		
		D2800	DZ2J056M0L	DIODE		
		D2802	B3AGB0000083	LED		
		D2851	DZ2J068M0L	DIODE		
		D2852	DZ2J068M0L	DIODE		
		D3021	DZ2J140M0L	DIODE		
		D3022	DZ2J140M0L	DIODE		
		D3023	DZ2J140M0L	DIODE		
		D3024	DZ2J140M0L	DIODE		
		D3025	DZ2J140M0L	DIODE		
		D3026	DZ2J140M0L	DIODE		
		D3101	K7AAAY000014	DIODE		
		D4723	DZ2J056M0L	DIODE		
		D4724	DZ2J056M0L	DIODE		
		D4761	DZ2J056M0L	DIODE		
		D4773	B0JCED000012	DIODE		
		D5172	DZ2J180M0L	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D5173	DA2J10100L	DIODE		
		D5178	DZ2J100M0L	DIODE		
		D5180	DZ2J033M0L	DIODE		
		D5188	B0ADCK000001	DIODE		
		D7101	ERZE08C621CD	SURGE ABSORBER		
		D7102	B0EBNR000048	DIODE		
		D7104	B0AAMT000014	DIODE		
		D7105	B0AAMT000014	DIODE		
		D7211	B0ACCD000008	DIODE		
		D7215	B0HAPR000013	DIODE		
		D7221	B0ACCD000008	DIODE		
		D7301	DZ2J039M0L	DIODE		
		D7302	B0HAGQ000001	DIODE		
		D7303	DZ2J039M0L	DIODE		
		D7304	B0ECKM000053	DIODE		
		D7305	B0ADCK000001	DIODE		
		D7306	B0BC027A0336	DIODE		
		D7307	B0BC027A0336	DIODE		
		D7308	B0BC027A0336	DIODE		
		D7311	B0BC027A0336	DIODE		
		D7312	B0ACCD000008	DIODE		
		D7313	B0ACCD000008	DIODE		
		D7403	B0JBSL000046	DIODE		
		D7404	DA2J10100L	DIODE		
		D7405	B0ACCD000008	DIODE		
		D7407	B0JBSL000046	DIODE		
		D7411	B0ACCD000008	DIODE		
		D7412	B0JBSL000046	DIODE		
		D7413	B0JBSL000046	DIODE		
		D7502	B0JCPE000051	DIODE		
		D7810	B0ACCD000008	DIODE		
		D7811	B0ECKM000053	DIODE		
		D7817	B0JBSL000077	DIODE		
		D8710	B0ACGM000001	DIODE		
INTEGRATED CIRCUITS						
		IC4900	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5300	C0DBAYY01644	IC		
		IC5702	C0DBAYY01656	IC		
		IC5704	C0DBEYY00102	IC		
		IC6800	C1AB00004028	IC		
		IC7201	C0DBBY000058	IC		
		IC7301	C0DBAYY01329	IC		
		IC7401	C0DBZYY00531	IC		
		IC7503	C0DBAYY01915	IC		
		IC7800	C0ZBZ0002164	IC		
		IC7801	C0ZBZ0001936	IC		
		IC8000	MN2WS0280PK	IC		
		IC8100	NN30332A-VB	IC		
		IC8101	C0DBAYY01644	IC		
		IC8200	C3ABUY000055	IC		
		IC8201	C3ABUY000055	IC		
		IC8202	C3ABVY000025	IC		
		IC8601	C1CB00004168	IC		
		IC8602	C0DBZYY00723	IC		
		IC8603	C0DBZYY00723	IC		
		IC8606	C0DBZYY00723	IC		
		IC8650	C1CB00003736	IC		
		IC8660	C0DBEYY00102	IC		
		IC8704	C0DBAYY01647	IC		
		IC8705	C0DBAYY01299	IC		
		IC8715	C0DBGYY00887	IC		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		IC8901	C3EBGY000057	IC		
		IC8903	TVRT599AC	ROM VERSION IC (C3FBYY000050)		
COIL						
		L2200	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	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		
		L5300	G1C150MA0445	INDUCTOR		
		L5700	G1C2R2MA0464	INDUCTOR		
		L5701	J0JYC0000464	BEAD CORE		
		L6704	J0JYC0000464	BEAD CORE		
		L6706	J0JYC0000464	BEAD CORE		
		L6801	J0JYC0000464	BEAD CORE		
		L6804	J0JYC0000464	BEAD CORE		
		L7207	EXCELSA35T	BEAD CORE		
		L7208	EXCELSA35T	BEAD CORE		
		L7304	EXCELSA35T	BEAD CORE		
		L7502	G0C270MA0049	INDUCTOR		
		L7800	G0C470J00005	INDUCTOR		
		L7804	J0JHC0000075	BEAD COIL		
		L8001	J0JYC0000464	BEAD CORE		
		L8002	J0JYC0000686	BEAD CORE		
		L8003	J0JYC0000686	BEAD CORE		
		L8100	G1C1R0M00022	INDUCTOR		
		L8101	G1C3R3MA0464	INDUCTOR		
		L8102	J0JYC0000686	BEAD CORE		
		L8602	J0ZZB0000142	FILTER		
		L8604	J0JYC0000464	BEAD CORE		
		L8605	J0JYC0000464	BEAD CORE		
		L8606	J0JYC0000464	BEAD CORE		
		L8607	J0JYC0000464	BEAD CORE		
		L8608	J0JYC0000464	BEAD CORE		
		L8615	J0ZZB0000142	FILTER		
		L8704	G1C3R3ZA0388	INDUCTOR		
		L8705	G1C4R7ZA0311	INDUCTOR		
		L8902	J0JYC0000464	BEAD CORE		
		L8903	J0JYC0000464	BEAD CORE		
TRANSISTOR						
		Q2210	B1ABCF000231	TRANSISTOR		
		Q2211	B1ABCF000231	TRANSISTOR		
		Q4700	B1ABCF000231	TRANSISTOR		
		Q4701	B1ABCF000231	TRANSISTOR		
		Q4750	B1ABCF000231	TRANSISTOR		
		Q7201	B1CERR000096	TRANSISTOR		
		Q7202	B1ADGE000012	TRANSISTOR		
		Q7301	B1CBRR000002	TRANSISTOR		
		Q7302	B1CBRR000002	TRANSISTOR		
		Q7303	B1ADCE000022	TRANSISTOR		
		Q7401	B1CFJD000007	TRANSISTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		Q7402	B1CHRE000015	TRANSISTOR		
		Q7403	B1CHRE000015	TRANSISTOR		
		Q7404	B1CHRE000015	TRANSISTOR		
		Q7406	B1CFJD000007	TRANSISTOR		
		Q7407	B1ADCE000022	TRANSISTOR		
		Q7800	B1ABCF000231	TRANSISTOR		
		Q7801	B1CERM000047	TRANSISTOR		
		Q7802	B1BDBJ000001	TRANSISTOR		
		Q7803	B1BDBJ000001	TRANSISTOR		
		Q7804	B1BDBJ000001	TRANSISTOR		
		Q7805	B1BDBJ000001	TRANSISTOR		
		Q7806	B1BDBJ000001	TRANSISTOR		
		Q7809	B1BDBJ000001	TRANSISTOR		
		Q7812	B1CFJD000007	TRANSISTOR		
RESISTORS						
		R066	D0GAR00J0005	M 0 OHM, 1/16W		
		R0902	D0GA473JA039	M 47KOHM, J,1/16W		
		R0905	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0906	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0909	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0910	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0911	D1H83324A042	NETWORK RESISTER		
		R0912	D0GA101JA039	M 100OHM, J, 1/16W		
		R0913	D0GA101JA039	M 100OHM, J, 1/16W		
		R093	D0GAR00J0005	M 0 OHM, 1/16W		
		R0930	D0GA470JA023	M 47 OHM, J,1/16W		
		R0931	D0GA473JA039	M 47KOHM, J,1/16W		
		R0940	D0GA470JA023	M 47 OHM, J,1/16W		
		R0945	D0GA470JA023	M 47 OHM, J,1/16W		
		R0946	D0GA470JA023	M 47 OHM, J,1/16W		
		R0952	D0GA102JA039	M 1KOHM, J, 1/16W		
		R0953	D0GA101JA039	M 100OHM, J, 1/16W		
		R0954	D0GA101JA039	M 100OHM, J, 1/16W		
		R0961	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0962	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0965	D0GA470JA023	M 47 OHM, J,1/16W		
		R0966	D0GA470JA023	M 47 OHM, J,1/16W		
		R0967	D0GA470JA023	M 47 OHM, J,1/16W		
		R0968	D0GA470JA023	M 47 OHM, J,1/16W		
		R0969	D0GA470JA023	M 47 OHM, J,1/16W		
		R0970	D0GAR00J0005	M 0 OHM, 1/16W		
		R0971	D0GAR00J0005	M 0 OHM, 1/16W		
		R2004	D0GA103JA039	M 10KOHM,F,1/16W		
		R2007	D0GA680JA023	M 68 OHM, J,1/16W		
		R2008	D0GA103JA039	M 10KOHM,F,1/16W		
		R2010	D1BA7151A023	M 7.15KOHM, F 1/16 W		
		R2011	D0GA102JA039	M 1KOHM, J, 1/16W		
		R2014	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R2015	D0GA680JA023	M 68 OHM, J,1/16W		
		R2016	D0GA103JA039	M 10KOHM,F,1/16W		
		R2017	F1G1H102A946	M 1KOHM, J, 1/16W		
		R2040	D0GA473JA039	M 47KOHM, J,1/16W		
		R2051	D0GA680JA023	M 68 OHM, J,1/16W		
		R2152	D0GA680JA023	M 68 OHM, J,1/16W		
		R2153	D0GA680JA023	M 68 OHM, J,1/16W		
		R2154	D0GA680JA023	M 68 OHM, J,1/16W		
		R2155	D0GA103JA039	M 10KOHM,F,1/16W		
		R2156	D0GA103JA039	M 10KOHM,F,1/16W		
		R2157	D0GA103JA039	M 10KOHM,F,1/16W		
		R2158	D0GA103JA039	M 10KOHM,F,1/16W		
		R2159	D0GA103JA039	M 10KOHM,F,1/16W		
		R2160	D0GA103JA039	M 10KOHM,F,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R2161	D0GA103JA039	M 10KOHM,F,1/16W		
		R2230	D0GA102JA039	M 1KOHM, J, 1/16W		
		R2240	D0GA103JA039	M 10KOHM,F,1/16W		
		R2263	D0GA470JA023	M 47 OHM, J,1/16W		
		R2267	D0GAR00J0005	M 0 OHM, 1/16W		
		R2273	D0GA103JA039	M 10KOHM,F,1/16W		
		R2274	D0GA473JA039	M 47KOHM, J,1/16W		
		R2275	D0GAR00J0005	M 0 OHM, 1/16W		
		R2276	D0GA223JA023	M 22K OHM J 1/16W		
		R2277	D0GA473JA039	M 47KOHM, J,1/16W		
		R2278	D0GAR00J0005	M 0 OHM, 1/16W		
		R2804	D0GBR00J0004	M 0 OHM J 1/10W		
		R2807	D0GBR00J0004	M 0 OHM J 1/10W		
		R2820	D0GB470JA065	M 47 OHM,J,1/10W		
		R2821	D0GB332JA065	M 3.3KOHM,J,1/10W		
		R2822	D0GD104JA052	M 100KOHM,J,1/8W		
		R2823	D1BB4301A073	M 4.3KOHM ,F, 1/16W		
		R2824	D1BB1001A073	M 100 OHM,J.1/10W		
		R2852	D1BD1911A066	M 1.91KOHM,J.1/8 W		
		R2853	D1BD3091A066	M 3.09KOHM,J.1/8 W		
		R2854	D1BD6041A066	M 6.04KOHM,J.1/8 W		
		R2855	D1BD1692A066	M 16.9KOHM,F.1/8W		
		R3012	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3013	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3014	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3015	D1HY2204A012	NETWORK RESISTER		
		R3038	D1BA1403A023	M 140 KOHM,F.1/16 W		
		R3053	D0GA333JA023	M 33KOHM,J,1/16W		
		R3054	D0GA333JA023	M 33KOHM,J,1/16W		
		R3056	D1BA1403A023	M 140 KOHM,F.1/16 W		
		R3058	D0GA101JA039	M 100OHM, J, 1/16W		
		R3064	D0GAR00J0005	M 0 OHM, 1/16W		
		R3117	D0GA102JA039	M 1KOHM, J, 1/16W		
		R3118	D0GA102JA039	M 1KOHM, J, 1/16W		
		R3301	D0GA473JA039	M 47KOHM, J,1/16W		
		R4102	D0GAR00J0005	M 0 OHM, 1/16W		
		R4104	D0GA103JA039	M 10KOHM,F,1/16W		
		R4106	D0GA103JA039	M 10KOHM,F,1/16W		
		R4107	D0GAR00J0005	M 0 OHM, 1/16W		
		R4700	D0GA103JA039	M 10KOHM,F,1/16W		
		R4701	D0GA103JA039	M 10KOHM,F,1/16W		
		R4702	D0GA103JA039	M 10KOHM,F,1/16W		
		R4703	D0GA103JA039	M 10KOHM,F,1/16W		
		R4705	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4706	D0GA470JA023	M 47 OHM, J,1/16W		
		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,F,1/16W		
		R4712	D0GA103JA039	M 10KOHM,F,1/16W		
		R4713	D0GA103JA039	M 10KOHM,F,1/16W		
		R4715	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4717	D0GA473JA039	M 47KOHM, J,1/16W		
		R4718	D0GA473JA039	M 47KOHM, J,1/16W		
		R4720	D0GA473JA039	M 47KOHM, J,1/16W		
		R4721	D0GA473JA039	M 47KOHM, J,1/16W		
		R4722	D1BA1600A023	M 160 OHM,F.1/16 W		
		R4723	D1BA82R0A023	M 82OHM ,J, 1/16W		
		R4751	D0GA103JA039	M 10KOHM,F,1/16W		
		R4752	D0GA103JA039	M 10KOHM,F,1/16W		
		R4753	D0GA103JA039	M 10KOHM,F,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4755	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4757	D0GA473JA039	M 47KOHM, J,1/16W		
		R4758	D0GA473JA039	M 47KOHM, J,1/16W		
		R4759	D0GA680JA023	M 68 OHM, J,1/16W		
		R4760	D0GA680JA023	M 68 OHM, J,1/16W		
		R4798	D0GA273JA023	M 27K OHM J ,1/16W		
		R4900	D0GA103JA039	M 10KOHM,F,1/16W		
		R4901	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4902	D1H86804A042	M 68 OHM, J,1/16W		
		R4903	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4904	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4909	D0GA103JA039	M 10KOHM,F,1/16W		
		R4910	D0GA473JA039	M 47KOHM, J,1/16W		
		R4913	D0GA102JA039	M 1KOHM, J, 1/16W		
		R5002	D0GA683JA023	M 68KOHM, J,1/16W		
		R5003	D0GA103JA039	M 10KOHM,F,1/16W		
		R5006	D0GA623JA023	M 62KOHM ,J, 1/16W		
		R5007	D0GA243JA023	M 24K OHM J 0.063W		
		R5009	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R5012	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5015	D0GAR00J0005	M 0 OHM, 1/16W		
		R5018	D0GA182JA023	M 1.8KOHM, J,0.063W		
		R5030	D0GA103JA039	M 10KOHM,F,1/16W		
		R5100	D0GA101JA039	M 100OHM, J, 1/16W		
		R5101	D0GA473JA039	M 47KOHM, J,1/16W		
		R5102	D0GA473JA039	M 47KOHM, J,1/16W		
		R5104	D0GA103JA039	M 10KOHM,F,1/16W		
		R5152	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R5174	D0GA103JA039	M 10KOHM,F,1/16W		
		R5175	D0GA681JA023	M680 OHM, J,1/16W		
		R5176	D0GB101JA065	M 100 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	D1BA2002A023	M 20KOHM ,J, 1/16		
		R5707	D0GBR00J0004	M 0 OHM J 1/10W		
		R5715	D1BA1502A023	M 15K OHM J 1/10W		
		R5716	D1BA6041A023	M 6.04KOHM,F.1/16 W		
		R5717	D0GA123JA023	M 12K OHM J 1/16W		
		R5731	D1BA1200A023	M 120 OHM,F.1/16 W		
		R5732	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R5736	D0GA103JA039	M 10KOHM,F,1/16W		
		R6720	D0GA221JA023	M220 OHM, J.1/16 W		
		R6721	D0GA221JA023	M220 OHM, J.1/16 W		
		R6734	D0GA103JA039	M 10KOHM,F,1/16W		
		R6804	D0GA471JA023	M 470OHM, J,1/16W		
		R6806	D0GA103JA039	M 10KOHM,F,1/16W		
		R6809	D0GAR00J0005	M 0 OHM, 1/16W		
		R6810	D0GAR00J0005	M 0 OHM, 1/16W		
		R6811	D0GAR00J0005	M 0 OHM, 1/16W		
		R6815	D0GA680JA023	M 68 OHM, J,1/16W		
		R6817	D0GA680JA023	M 68 OHM, J,1/16W		
		R6818	D0GAR00J0005	M 0 OHM, 1/16W		
		R6819	D0GAR00J0005	M 0 OHM, 1/16W		
		R6821	D0GA680JA023	M 68 OHM, J,1/16W		
		R6825	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6828	D0GA680JA023	M 68 OHM, J,1/16W		
		R6829	D0GA680JA023	M 68 OHM, J,1/16W		
		R6830	D0GA680JA023	M 68 OHM, J,1/16W		
		R6834	D0GA680JA023	M 68 OHM, J,1/16W		
		R6835	D0GA680JA023	M 68 OHM, J,1/16W		
		R6836	D0GA680JA023	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R6837	D0GA680JA023	M 68 OHM, J,1/16W		
		R6843	D0GBR00J0004	M 0 OHM J 1/10W		
		R6863	D0GAR00J0005	M 0 OHM, 1/16W		
		R6895	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6896	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6899	D0GA680JA023	M 68 OHM, J,1/16W		
	⚠	R7101	D0GF474JA048	M 470KOHM,J,1/3W		
	⚠	R7102	D0GF474JA048	M 470KOHM,J,1/3W		
	⚠	R7103	D0GF474JA048	M 470KOHM,J,1/3W		
	⚠	R7104	D0GD102JA052	M 1.0KOHM,J,1/8W		
	⚠	R7105	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7201	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7202	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7203	D1BB5602A073	M 56KOHM ,J, 1/16W		
		R7204	D0GZ181JA020	M 180 OHM,J,1/2W		
		R7205	D0GB101JA065	M 100 OHM,J,1/10W		
		R7206	D0GD4R7JA059	M 4.7 OHM,J,1/4W		
		R7207	D0GB103JA065	M 10K OHM J 1/10W		
		R7208	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7209	D0GB100JA065	M 10 OHM J 1/10W		
		R7212	D1BB6802A073	M 68KOHM,J.1/10W		
		R7219	D0GB513JA065	M 51KOHM ,J, 1/16W		
		R7220	D0GB223JA065	M 22KOHM,J,1/10W		
		R7224	D1AB2704A023	M 2.7MOHM, J.1/16W		
		R7225	D1AB2704A023	M 2.7MOHM, J.1/16W		
		R7226	D1AB2404A023	M 2.4MOHM ,J, 1/16W		
		R7227	D1AB3004A023	M 3MOHM J, 1/16W		
		R7230	D1BB3302A073	M 33KOHM,J.1/10W		
		R7231	D1BB3602A073	M 36KOHM ,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		
		R7245	D0GF220JA048	M 22 OHM. 1/4W		
		R7246	D0GZ181JA020	M 180 OHM,J,1/2W		
		R7302	D0GF391JA048	M 390 OHM. 1/3W		
		R7303	D0GF391JA048	M 390 OHM. 1/3W		
		R7304	D0GF4R7JA048	M 4.7OHM ,J, 1/16W		
		R7305	D0GF121JA048	M 120OHM ,J, 1/16W		
		R7306	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7307	D0GD562JA052	M 5.6 KOHM,J,1/8W		
		R7308	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7311	D0XB106JA018	M 10MOHM ,J, 1/16W		
		R7312	D1BB1502A073	M 15KOHM, J.1/10W		
		R7314	D0GB104JA065	M 100KOHM J 1/10W		
		R7315	D0GB222JA065	M 2.2KOHM,J,1/10W		
		R7317	D0GB223JA065	M 22KOHM,J,1/10W		
		R7318	D0GB473JA065	M 47KOHM J. 1/10W		
		R7319	D0GB473JA065	M 47KOHM J. 1/10W		
		R7320	D0GB103JA065	M 10K OHM J 1/10W		
		R7321	D0GF220JA048	M 22 OHM. 1/4W		
		R7322	D0GF220JA048	M 22 OHM. 1/4W		
		R7323	D0GB103JA065	M 10K OHM J 1/10W		
		R7324	D0GB103JA065	M 10K OHM J 1/10W		
		R7385	D0GF100JA048	M 10 OHM,J,1/3W		
		R7387	D0GF4R7JA048	M 4.7OHM ,J, 1/16W		
		R7401	D0GB472JA065	M 4.7KOHM, J,1/10W		
		R7402	D0GB103JA065	M 10K OHM J 1/10W		
		R7403	D0GB102JA065	M 1KOHM,J,1/10W		
		R7404	D0GB224JA065	M 220KOHM,J,1/10W		
		R7405	D0GD222JA052	M 2.2KOHM,J,1/8W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7406	D0GB332ZA038	M 3.3KOHM ,F, 1/16W		
		R7407	D0GB223JA065	M 22KOHM,J,1/10W		
		R7408	D1BB1742A073	M 17.4KOHM ,J, 1/16W		
		R7409	D0GB104JA065	M 100KOHM J 1/10W		
		R7410	D0GB153JA065	M 15K OHM J 1/10W		
		R7411	D0GB224JA065	M 220KOHM,J,1/10W		
		R7412	D0GB153JA065	M 15K OHM J 1/10W		
		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, 1W		
		R7427	D0GB223JA065	M 22KOHM,J,1/10W		
		R7428	D0GB154JA065	M 150KOHM J 1/10W		
		R7429	D0GB104JA065	M 100KOHM J 1/10W		
		R7430	D0GB104JA065	M 100KOHM J 1/10W		
		R7504	D0GD104JA052	M 100KOHM,J,1/8W		
		R7509	D0GD224JA052	M 220KOHM,J,1/8W		
		R7533	D1BB7872A106	M 78.7KOHM ,J, 1/16W		
		R7534	D1BB1432A106	M 14.3KOHM,F.1/16 W		
		R7535	D0GB100JA065	M 10 OHM J 1/10W		
		R7536	D0GB514JA065	M 510KOHM ,J, 1/16W		
		R7800	D0GB103JA065	M 10K OHM J 1/10W		
		R7801	D0GB473JA065	M 47KOHM J. 1/10W		
		R7802	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7803	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7804	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7805	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7806	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7807	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7808	D0GB473JA065	M 47KOHM J. 1/10W		
		R7809	D1BB1203A073	M 120KOHM,J,1/10W		
		R7810	D1BB4702A073	M 47KOHM,J.1/10W		
		R7811	D0GB122JA065	M 1.2KOHM J 1/10W		
		R7812	D1BB1503A073	M 150KOHM,J.1/10W		
		R7815	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7816	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7817	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7818	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7820	D1BB1403A073	M 140 KOHM,F.1/16 W		
		R7821	D1BB1202A073	M 120 OHM,J.1/10W		
		R7822	D0GB114JA065	M 110 OHM, J.1/16W		
		R7823	D0GB203JA065	M 20KOHM J 1/10W		
		R7824	D0GD470JA059	M 47 OHM,J,1/4W		
		R7825	D0GB473JA065	M 47KOHM J. 1/10W		
		R7827	D0GD101JA052	M 100 OHM,J,1/8W		
		R7828	D0GBR00J0004	M 0 OHM J 1/10W		
		R7831	D0GBR00J0004	M 0 OHM J 1/10W		
		R7833	D0GD100JA059	M 10 OHM,J,1/4W		
		R7834	D0GBR00J0004	M 0 OHM J 1/10W		
		R7838	D0GB470JA065	M 47 OHM,J,1/10W		
		R7839	D0GB473JA065	M 47KOHM J. 1/10W		
		R7840	D0GB473JA065	M 47KOHM J. 1/10W		
		R7841	D0GB473JA065	M 47KOHM J. 1/10W		
		R7842	D0GB473JA065	M 47KOHM J. 1/10W		
		R7843	D0GB473JA065	M 47KOHM J. 1/10W		
		R7846	D0GB101JA065	M 100 OHM,J,1/10W		
		R7847	D0GB101JA065	M 100 OHM,J,1/10W		
		R7848	D0GB101JA065	M 100 OHM,J,1/10W		
		R7849	D0GB101JA065	M 100 OHM,J,1/10W		
		R7850	D0GB101JA065	M 100 OHM,J,1/10W		
		R7851	D0GB101JA065	M 100 OHM,J,1/10W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7857	D1BB1403A073	M 140 KOHM,F.1/16 W		
		R7858	D0GB473JA065	M 47KOHM J. 1/10W		
		R7861	D0GB104JA065	M 100KOHM J 1/10W		
		R7862	D1BB2433A073	M 243KOHM ,J, 1/16W		
		R7863	D0GB473JA065	M 47KOHM J. 1/10W		
		R7864	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7865	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7866	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7867	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7868	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7869	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7870	D1BB4302A073	M 2.4OHM ,J, 1/16W		
		R7871	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7872	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7873	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7874	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7875	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7876	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7877	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7878	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7879	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7880	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7881	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R7882	D1BD2R40A066	M 2.4OHM ,J, 1/16W		
		R8010	D0GA511JA023	M510 OHM, J,1/16W		
		R8012	D0GA1R1JA023	M 1.1OHM, J,1/16W		
		R8108	D1BA4701A023	M 4.7KOHM,F 1/16 W		
		R8109	D1BA2002A023	M 1UF, 25V		
		R8110	D1BA1802A014	M 18KOHM, F.1/16 W		
		R8200	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8203	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8206	D1BA2400A023	M 240 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		
		R8221	D0GA103JA039	M 10KOHM,F,1/16W		
		R8230	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8231	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8232	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8233	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8234	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8236	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8239	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8242	D0GA111JA023	M 110 OHM, J.1/16W		
		R8244	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8245	D0GA103JA039	M 10KOHM,F,1/16W		
		R8250	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8251	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8300	D0GA360JA023	M 36 OHM, J,1/16W		
		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	D0GA331JA023	M 330 OHM, J,1/16W		
		R8305	D1HY2204A012	NETWORK RESISTER		
		R8306	D1HY2204A012	NETWORK RESISTER		
		R8307	D1HY2204A012	NETWORK RESISTER		
		R8308	D1HY2204A012	NETWORK RESISTER		
		R8309	D1HY2204A012	NETWORK RESISTER		
		R8313	D1HY4704A012	NETWORK RESISTER		
		R8314	D1HY4704A012	NETWORK RESISTER		
		R8315	D1HY4704A012	NETWORK RESISTER		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8316	D1HY4704A012	NETWORK RESISTER		
		R8317	D1HY4704A012	NETWORK RESISTER		
		R8320	D0GA330JA023	M 33 OHM, J,1/16W		
		R8321	D0GA330JA023	M 33 OHM, J,1/16W		
		R8322	D0GA220JA023	M22 OHM, J,1/16 W		
		R8323	D0GA330JA023	M 33 OHM, J,1/16W		
		R8324	D0GA330JA023	M 33 OHM, J,1/16W		
		R8325	D0GA220JA023	M22 OHM, J,1/16 W		
		R8326	D0GA330JA023	M 33 OHM, J,1/16W		
		R8327	D0GA330JA023	M 33 OHM, J,1/16W		
		R8328	D0GA470JA023	M 47 OHM, J,1/16W		
		R8329	D0GA470JA023	M 47 OHM, J,1/16W		
		R8330	D0GA470JA023	M 47 OHM, J,1/16W		
		R8331	D0GA470JA023	M 47 OHM, J,1/16W		
		R8332	D0GA470JA023	M 47 OHM, J,1/16W		
		R8421	D0GA103JA039	M 10KOHM,F,1/16W		
		R8422	D0GA103JA039	M 10KOHM,F,1/16W		
		R8423	D0GA103JA039	M 10KOHM,F,1/16W		
		R8447	D0GA103JA039	M 10KOHM,F,1/16W		
		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		
		R8606	D1BA6200A023	M 620OHM ,J, 1/16W		
		R8609	D0GA103JA039	M 10KOHM,F,1/16W		
		R8610	D0GA103JA039	M 10KOHM,F,1/16W		
		R8613	D0GA104JA039	M 100KOHM,J,1/8W		
		R8614	D0GA103JA039	M 10KOHM,F,1/16W		
		R8615	D0GAR00J0005	M 0 OHM, 1/16W		
		R8616	D0GA473JA039	M 47KOHM, J,1/16W		
		R8619	D0GAR00J0005	M 0 OHM, 1/16W		
		R8622	D0GAR00J0005	M 0 OHM, 1/16W		
		R8624	D0GA470JA023	M 47 OHM, J,1/16W		
		R8625	D0GA470JA023	M 47 OHM, J,1/16W		
		R8626	D0GA470JA023	M 47 OHM, J,1/16W		
		R8627	D0GA470JA023	M 47 OHM, J,1/16W		
		R8628	D0GA470JA023	M 47 OHM, J,1/16W		
		R8629	D0GA470JA023	M 47 OHM, J,1/16W		
		R8630	D1H81034A042	NETWORK RESISTER		
		R8631	D0GA103JA039	M 10KOHM,F,1/16W		
		R8632	D1H86804A042	NETWORK RESISTER		
		R8634	D1H86804A042	NETWORK RESISTER		
		R8636	D0GA220JA023	M22 OHM, J,1/16 W		
		R8637	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R8638	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R8639	D0GA103JA039	M 10KOHM,F,1/16W		
		R8640	D0GA103JA039	M 10KOHM,F,1/16W		
		R8641	D1H8R0040016	NETWORK RESISTER		
		R8642	D1H8R0040016	NETWORK RESISTER		
		R8643	D0GA272JA023	M 2.7KOHM, J,1/16W		
		R8648	D1H8R0040016	NETWORK RESISTER		
		R8650	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8651	D0GA152JA023	M 1.5KOHM, J,1/16W		
		R8652	D0GA103JA039	M 10KOHM,F,1/16W		
		R8654	D0GA680JA023	M 68 OHM, J,1/16W		
		R8655	D0GA680JA023	M 68 OHM, J,1/16W		
		R8656	D0GA680JA023	M 68 OHM, J,1/16W		
		R8657	D0GA680JA023	M 68 OHM, J,1/16W		
		R8658	D0GA680JA023	M 68 OHM, J,1/16W		
		R8659	D0GA680JA023	M 68 OHM, J,1/16W		
		R8660	D0GA680JA023	M 68 OHM, J,1/16W		
		R8661	D0GA680JA023	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8662	D0GA680JA023	M 68 OHM, J,1/16W		
		R8663	D0GA680JA023	M 68 OHM, J,1/16W		
		R8664	D0GA680JA023	M 68 OHM, J,1/16W		
		R8665	D0GA680JA023	M 68 OHM, J,1/16W		
		R8666	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8667	D1H8R0040016	NETWORK RESISTER		
		R8668	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8670	D1BA2491A023	M 2.49KOHM,F,1/16W		
		R8675	D1H81034A042	M 10KOHM,F,1/16W		
		R8676	D1BB1200A143	M 120OHM ,J, 1/16W		
		R8677	D1BB2000A143	M 200OHM ,J, 1/16		
		R8678	D0GA680JA023	M 68 OHM, J,1/16W		
		R8680	D0GAR00J0005	M 0 OHM, 1/16W		
		R8681	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8683	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8684	D1BA2872A023	M 28.7KOHM ,J, 1/16W		
		R8693	D0GBR00J0004	M 0 OHM J 1/10W		
		R8694	D1BA2872A023	M 28.7KOHM ,J, 1/16W		
		R8695	D1BA1652A023	M 16.5KOHM ,J, 1/16W		
		R8699	D0GA103JA039	M 10KOHM,F,1/16W		
		R8702	D0GAR00J0005	M 0 OHM, 1/16W		
		R8703	D0GAR00J0005	M 0 OHM, 1/16W		
		R8704	D0GAR00J0005	M 0 OHM, 1/16W		
		R8705	D0GAR00J0005	M 0 OHM, 1/16W		
		R8713	D0GA473JA039	M 47KOHM, J,1/16W		
		R8714	D0GBR00J0004	M 0 OHM J 1/10W		
		R8715	D0GAR00J0005	M 0 OHM, 1/16W		
		R8718	D0GAR00J0005	M 0 OHM, 1/16W		
		R8719	D0GA103JA039	M 10KOHM,F,1/16W		
		R8720	D0GA473JA039	M 47KOHM, J,1/16W		
		R8731	D0GAR00J0005	M 0 OHM, 1/16W		
		R8741	D0GA220JA023	M22 OHM, J,1/16 W		
		R8742	D0GA223JA023	M 22K OHM J 1/16W		
		R8746	D1BA6802A023	M 68 KOHM,F.1/16 W		
		R8747	D1BA2102A023	M 21KOHM,F,1/16W		
		R8751	D1BB4301A074	M 4.3KOHM ,F, 1/16W		
		R8752	D1BB7870A143	M 787OHM ,J, 1/16W		
		R8753	D1BA2402A023	M 24KOHM,F,1/16W		
		R8785	D0GA103JA039	M 10KOHM,F,1/16W		
		R8788	D0GA102JA039	M 1KOHM, J, 1/16W		
		R8802	D0GA103JA039	M 10KOHM,F,1/16W		
		R8803	D0GA103JA039	M 10KOHM,F,1/16W		
		R8804	D0GA473JA039	M 47KOHM, J,1/16W		
		R8805	D0GA473JA039	M 47KOHM, J,1/16W		
		R8806	D0GA473JA039	M 47KOHM, J,1/16W		
		R8807	D0GA473JA039	M 47KOHM, J,1/16W		
		R8808	D0GA473JA039	M 47KOHM, J,1/16W		
		R8809	D0GA473JA039	M 47KOHM, J,1/16W		
		R8811	D0GA473JA039	M 47KOHM, J,1/16W		
		R8812	D0GA473JA039	M 47KOHM, J,1/16W		
		R8813	D0GA473JA039	M 47KOHM, J,1/16W		
		R8814	D0GA473JA039	M 47KOHM, J,1/16W		
		R8820	D0GA103JA039	M 10KOHM,F,1/16W		
		R8821	D0GA103JA039	M 10KOHM,F,1/16W		
		R8822	D0GA103JA039	M 10KOHM,F,1/16W		
		R8831	D0GA103JA039	M 10KOHM,F,1/16W		
		R8832	D0GA103JA039	M 10KOHM,F,1/16W		
		R8851	D0GA473JA039	M 47KOHM, J,1/16W		
		R8854	D0GA102JA039	M 1KOHM, J, 1/16W		
		R8859	D0GA103JA039	M 10KOHM,F,1/16W		
		R8901	D0GA103JA039	M 10KOHM,F,1/16W		
		R8903	D0GA472JA023	M 4.7KOHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8910	D0GA103JA039	M 10KOHM,F,1/16W		
		R8911	D0GA103JA039	M 10KOHM,F,1/16W		
		R8912	D0GA103JA039	M 10KOHM,F,1/16W		
		R8913	D0GA103JA039	M 10KOHM,F,1/16W		
		R8919	D0GA103JA039	M 10KOHM,F,1/16W		
		R8920	D1H86804A042	NETWORK RESISTER		
		R8921	D1H86804A042	NETWORK RESISTER		
		R8922	D0GA680JA023	M 68 OHM, J,1/16W		
		R8923	D0GA680JA023	M 68 OHM, J,1/16W		
		R8924	D0GA220JA023	M22 OHM, J,1/16 W		
		R8925	D0GA103JA039	M 10KOHM,F,1/16W		
		R9050	D0GA680JA023	M 68 OHM, J,1/16W		
		R9051	D0GA680JA023	M 68 OHM, J,1/16W		
		R9052	D0GA680JA023	M 68 OHM, J,1/16W		
		R9053	D0GA680JA023	M 68 OHM, J,1/16W		
		R9054	D0GA680JA023	M 68 OHM, J,1/16W		
		R9057	D0GA680JA023	M 68 OHM, J,1/16W		
		R9058	D0GA103JA039	M 10KOHM,F,1/16W		
TRANSFORMERS						
		T7202	G4DYA0000366	TRANSFORMER		
		T7301	G4DYA0000566	TRANSFORMER		
		T8601	G5BYC0000040	TRANSFORMER		
OTHERS						
		A02A	K1KY22BA0484	CONNECTOR		
		A10	K1KY12BA0483	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A15	K1MY41BA0526	CONNECTOR		
		A16	K1MY51BA0526	CONNECTOR		
		CF7101	D4CAY2R20002	TERMISTOR		
		CN0100	K1KA14A00248	CONNECTOR		
		F7101	K5E502YYA213	FUSE		
		GK4	K1KY03BA0402	CONNECTOR		
		HS7800	TUC5ZJ51521	HEAT SINK		
		HS7801	TUC5ZJ51521	HEAT SINK		
		HS7802	TUC5ZJ51521	HEAT SINK		
		HS7803	TUC5ZJ51521	HEAT SINK		
		HS7804	TUC5ZJ51521	HEAT SINK		
		HS7805	TUC5ZJ51521	HEAT SINK		
		JA1	D0GDR00J0004	CHIP RESISTOR		
		JA2	D0GDR00J0004	CHIP RESISTOR		
		JA4	D0GDR00J0004	CHIP RESISTOR		
		JA5	D0GDR00J0004	CHIP RESISTOR		
		JA6	D0GDR00J0004	CHIP RESISTOR		
		JA7	D0GDR00J0004	CHIP RESISTOR		
		JA8	D0GDR00J0004	CHIP RESISTOR		
		JK3001B	K1U511D00002	AV TERMINAL		
		JK4701	K1FY119E0066	HDMI CONNECTOR		
		JK4702	K1FY119E0066	HDMI CONNECTOR		
		JK4703	K1FY119E0066	HDMI CONNECTOR		
		JK7101	K2AAYB000010	AC INLET		
		JK8600	K1NA12E00016	CONNECTOR		
		JK8601	K1FY104B0095	AV TERMINAL		
		JK8602	K2LC1YYE0003	AV TERMINAL		
		JK8603A	K1FY104B0095	AV TERMINAL		
		JK8605	K1FY105E0025	CONNECTOR		
		JS7406	D0GDR00J0004	CHIP RESISTOR		
		K10	K1KY07BA0483	CONNECTOR		
		LF7103	G0B103H00018	LINE FLTER		
		LF7104	G0B103H00018	LINE FLTER		
		LF7105	G0B350GA0083	LINE FILTER		
		P2	K1KY20BA0491	CONNECTOR		
		P4	K1KY12B00022	CONNECTOR		

Model No. : TH-50AS670S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		P5	K1KY03BA0402	CONNECTOR		
		PA2002	K5H4022A0031	FUSE		
		PA5703	K5H1022A0031	FUSE		
		PA7403	K5G103AA0009	FUSE		
		PA7406	ERBRE5R00V	FUSE RESISTOR		
		PA8754	K5H4022A0031	FUSE		
		PC7301	B3PAA0000674	PHOTO COUPLER		
		PC7302	B3PAA0000674	PHOTO COUPLER		
		PC7303	B3PAA0000674	PHOTO COUPLER		
		RM2800	B3RBB0000018	PHOTO DETECTOR		
		SN2800	B3JB00000219	PHOTO DETECTOR		
		SW2851	EVQ11G05R	SWITCH		
		SW2852	EVQ11G05R	SWITCH		
		SW2853	EVQ11G05R	SWITCH		
		SW2854	EVQ11G05R	SWITCH		
		SW2855	EVQ11G05R	SWITCH		
		SW2857	EVQ11G05R	SWITCH		
		TU6705	J3ACAA000012	TUNER		
		X6800	H0J410500003	CRYSTAL RESONATORS		
		X8300	H0J250500109	CRYSTAL RESONATOR		
		X8600	H0J120500097	CRYSTAL RESONATOR		
		ZA050	K4AD01D00008	TERMINAL		
		ZA062	K4AD01D00008	TERMINAL		
		ZA063	K4AD01D00008	TERMINAL		
		ZA064	K4AD01D00008	TERMINAL		
		ZA066	K4AD01D00008	TERMINAL		
		ZA067	K4AD01D00008	TERMINAL		
		ZA068	K4AD01D00008	TERMINAL		
		ZA070	K4AD01D00008	TERMINAL		
		ZA071	K4AD01D00008	TERMINAL		
		ZA072	K4AD01D00008	TERMINAL		
		ZA073	K4AD01D00008	TERMINAL		
		ZA074	K4AD01D00008	TERMINAL		
		ZA076	K4AD01D00008	TERMINAL		
		ZA077	K4AD01D00008	TERMINAL		
		ZA079	K4AD01D00008	TERMINAL		
		ZA080	K4AD01D00008	TERMINAL		
		ZA081	K4AD01D00008	TERMINAL		
		ZA082	K4AD01D00008	TERMINAL		
		ZA100	K4AD01D00008	TERMINAL		
		ZA7101	K4AD01A00004	RUG TERMINAL		
		ZA7102	K4AD01A00004	RUG TERMINAL		
		ZA7103	K4AD01A00004	RUG TERMINAL		
		ZA7104	K4AD01A00004	RUG TERMINAL		
		ZA7106	K4AD01A00004	RUG TERMINAL		

Model No. : TH-50AS670S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K1HY05YY0182	WIFI USB CABEL		
		2	K2CQ2YY00107	AC CORD		
		3	L0EYAA000056	SPEAKER		
		4	L5EDDY00569	LCD PANEL		
		5	N2QAYB000933	REMOTE TRANSMITTER		
		6	N2QBYA000004	TOUCH REMOTE TRANSMITTER		
		7	N5HBZ0000109	WIFI MODULE		
			N5HZZ0000130	BT DONGLE		
		8	TBL4GX00211	PACKED PEDESTAL ASSY		
		9	TBL5ZX08911	STD METAL ASSY		
			TBM4GD3561	MODEL NAME PLATE		
		10	TBX5ZA03301	KEY BUTTON BRACKET		
		11	TKK5ZC50501A	LED PANEL		
		12	TKP5ZA42003	SIDE AV BRACKET		
		13	TPD4GA05131	FRONT CUSHION		
		14	TPD4GA05281	TOP CUSHION		
		15	TPD4GA05291	BOTTOM CUSHION		
			TPE4GH080	SET COVER		
		16	TQZ4GB758	FAN BAG ASSY		
			TSCKF0170121	LVDS FFC		
			TSCKF0170122	LVDS FFC		
		17	TTU4GA1218	BACKM COVER ASSY		
		18	TXFKY5Z0585A	CABINET ASSY		
		19	TXFPC01RUUS	PACKING CASE ASSY		
			XSS5+15FNK	SCREW		
Electrical Replacement Part List						
		RTL	TXN/K1ZLUB	K PRINT		
		RTL	TXN/P1YUUU	P PRINT		
		RTL	TXNGK1ZKUJ	GK PRINT		
		RTL	TZT/A1RUUS	A PRINT ASSY		