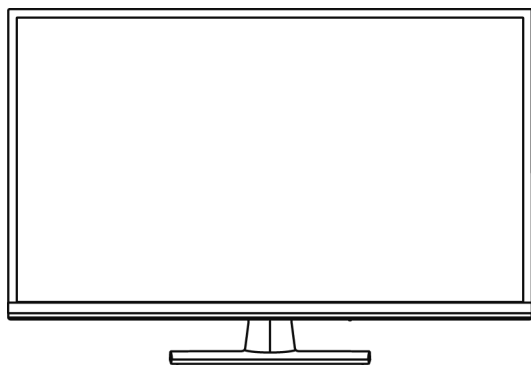


Service Manual

LED TV



Model No. TH-32CS510S

Chassis: KM26

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.

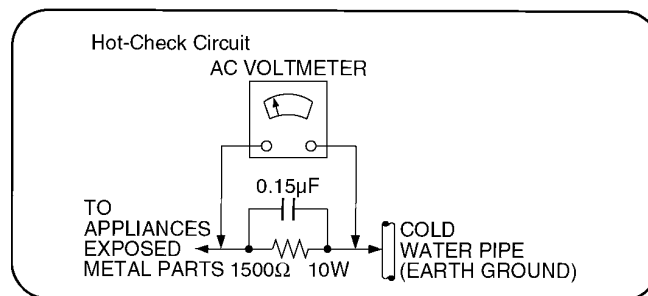


Figure 1

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).

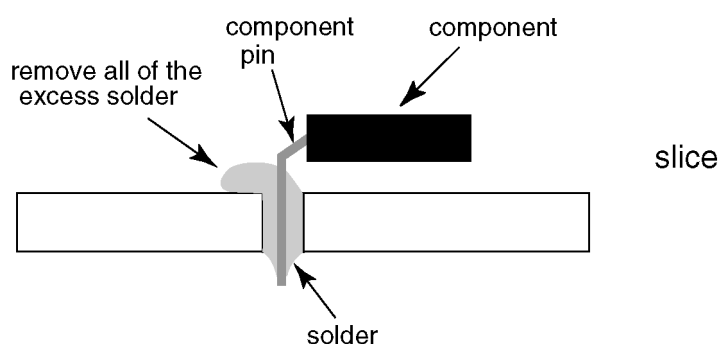
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

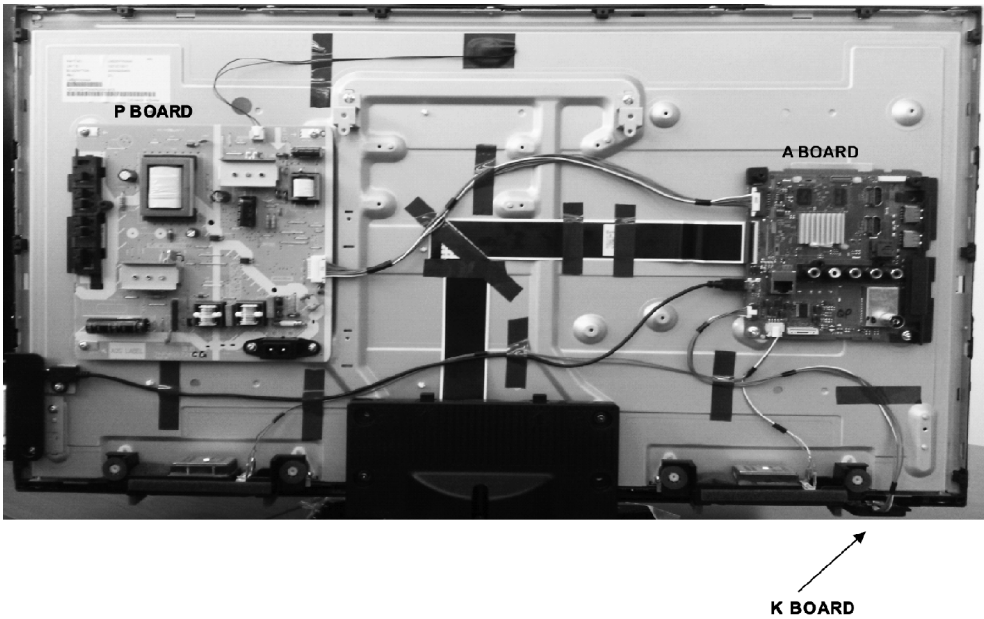
Caution

- 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	TUN, OFD, ADV, LD4, STBY EEP	Repairable
P BOARD	Power Supply	Repairable
K BOARD	LED/RM/CATS	Repairable

4 Specifications

Dimensions (W × H × D)	734 mm × 502 mm × 184 mm (With Pedestal) 734 mm × 437 mm × 69 mm (TV only)
Mass	6.0 kg Net (With Pedestal) 5.5 kg Net (TV only)
Power source	AC 220-240 V, 50 / 60 Hz
Rated power consumption	60 W
Standby power consumption	0.3 W
Visible screen size (diagonal)	80 cm
Display resolution	1 366 (W) × 768 (H)
Panel	LED backlight Liquid Crystal Display
Sound	
Speaker output	20 W (10 W + 10 W)
Connection terminals	
AV IN	VIDEO RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
(COMPONENT / VIDEO)	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 input	TYPE A Connectors HDMI1: Content Type HDMI2: Content Type, Audio Return Channel • This TV supports 'HDAVI Control 5' function.
ETHERNET	10BASE-T / 100BASE-TX
USB 1 / 2	DC 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]
DIGITAL AUDIO OUT	PCM / Dolby Digital / DTS, Fibre optic
Receiving systems / Band name	17 SYSTEMS

FUNCTION

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

Receiving channels (Analogue TV)

VHF BAND

2 - 12 (PAL / SECAM B, K1)
0 - 12 (PAL B AUST.)
1 - 9 (PAL B N.Z.)
1 - 12 (PAL / SECAM D)
1 - 12 (NTSC M Japan)

UHF BAND

2 - 13 (NTSC M USA)
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 - 35°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).

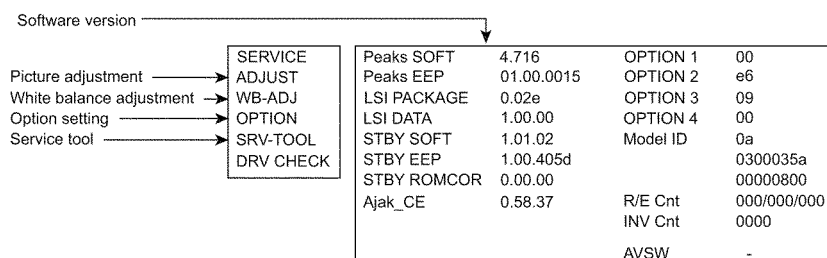
5 Service Mode

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

5.1.5. 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

32WHD		
SELF CHECK COMPLETE		
H14TUN	OK	PEAKS-SOFT 4.006
H90STBY	OK	PEAKS-EEP 01.00.0302
H92MEM1	OK	LSI-PACKAGE 0.015
H91MEM2	OK	LSI-RELEASE 0.07
H17LAN	OK	STBY-SOFT 1.00.03
H71TC-DAC	OK	STBY-EEP 1.00.0021
H96ID	OK	MODEL ID 0b 030003a1 00000040
H97ID2	OK	
H42WiFi	OK	

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

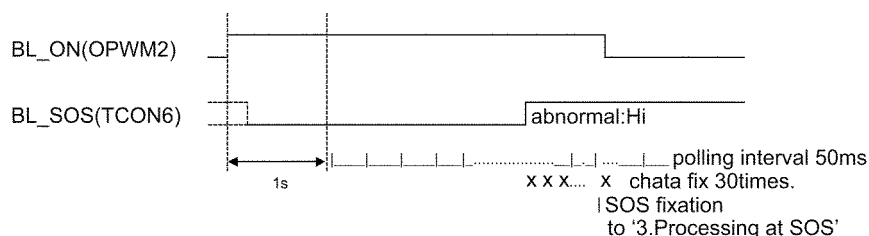
When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

	Priority SOS detection	LED Blink
1	BL_SOS	1
2	SUB_3.3V	7
3	SOUND_SOS	9
4	SOS	8
5	GCX/FRC_SOS	10
6	BE(sLD8/PRO4) SOS	12
7	Emergency SOS	13
8	IROM-SOS	3

6.3. Method of detecting SOS

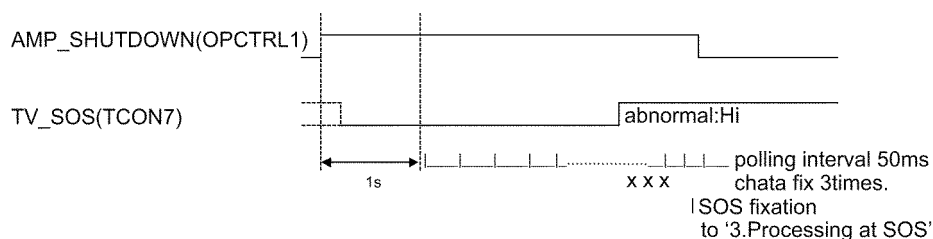
1. BL_SOS

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



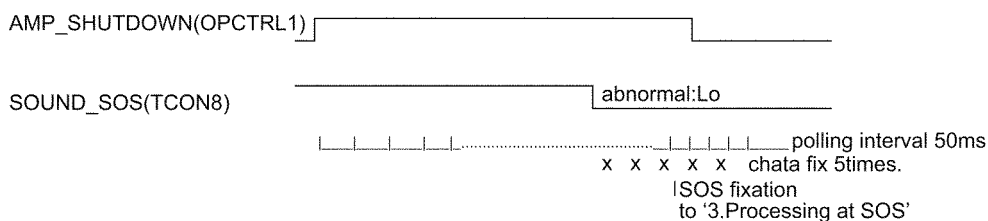
2. TV_SOS

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.

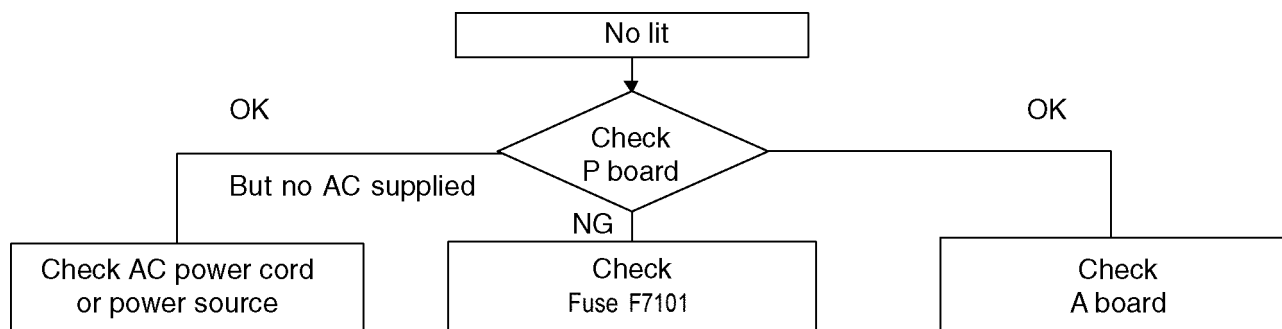
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.5. No Power

First check point

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

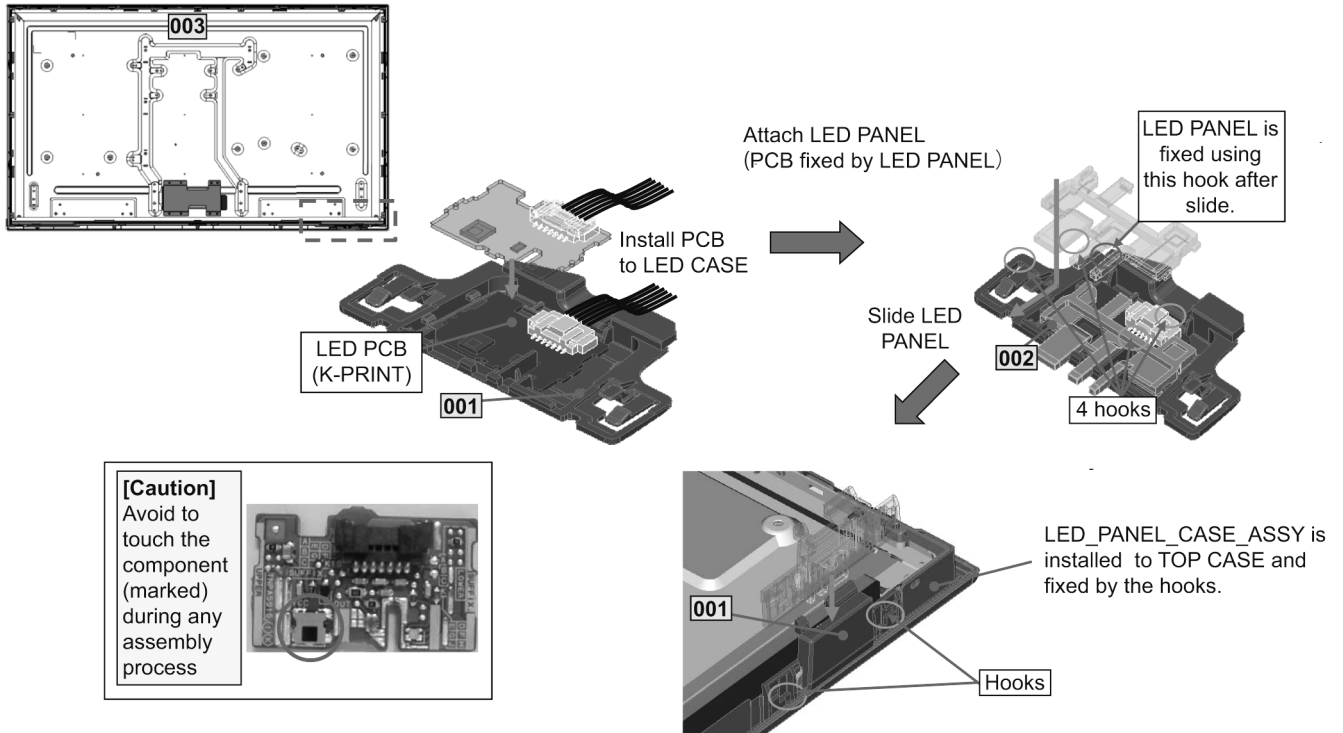
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. LED Panel Preparation

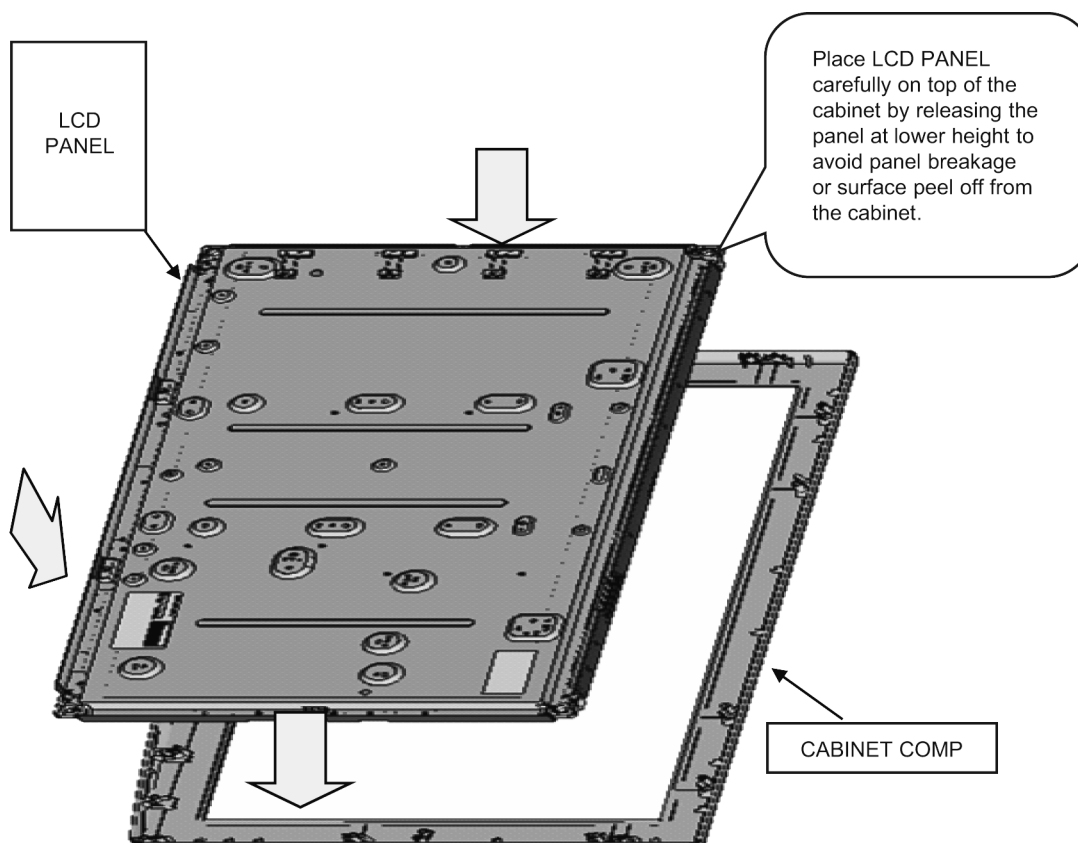
1. Install PCB to LED Panel Case.
2. Fix LED panel to LED Panel Case by slide into hook.
3. Install LED Panel Case Assy to Cabinet.



No	Part No	Description	Qty	UOM
001	TKP5ZA41701	LED PANEL CASE	1	PC
002	TKK5ZC50501A	LED PANEL	1	PC
003	TZLD636VRUA	LCD PANEL	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.

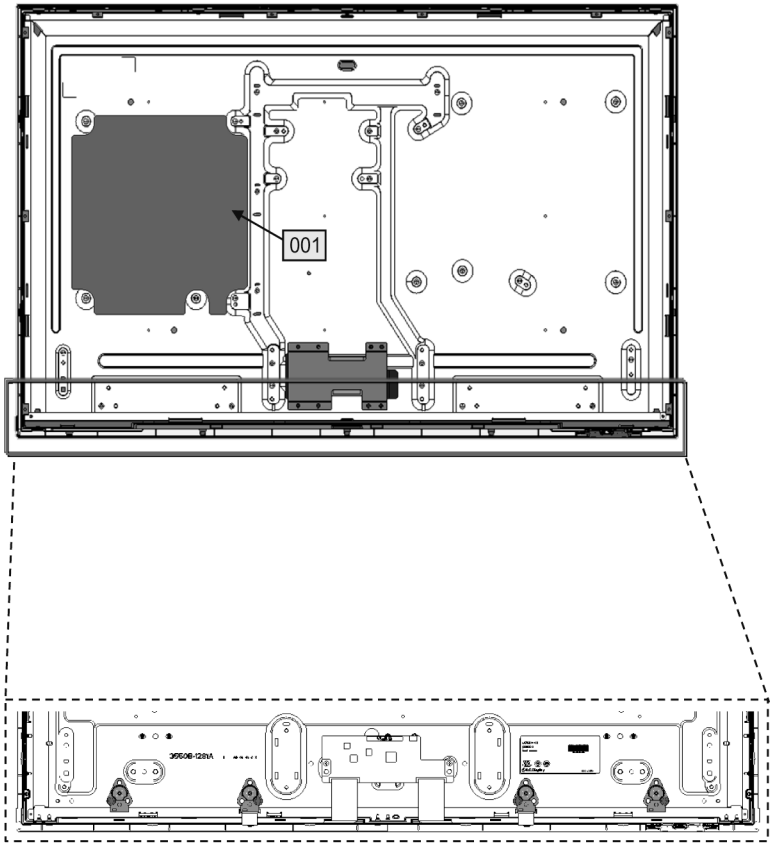


Other general precautions

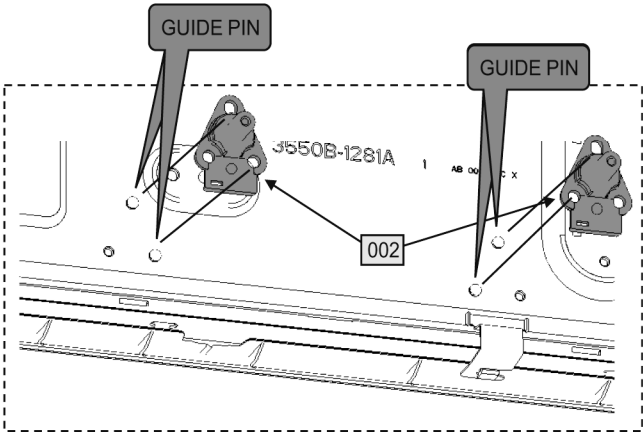
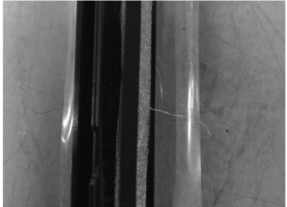
1. Do not press panel surface to avoid blue spot on the panel display.
2. Do not use hard cloth or rub the surface too hard. This may cause scratches on the surface.
3. Take care not to subject the TV's surface to water or detergent. Any liquid (including pets urine) if enters the product could lead 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. Sticking Barrier & SP Bracket

- 1. Stick barrier to panel.
- 2. Installed SP bracket to panel.



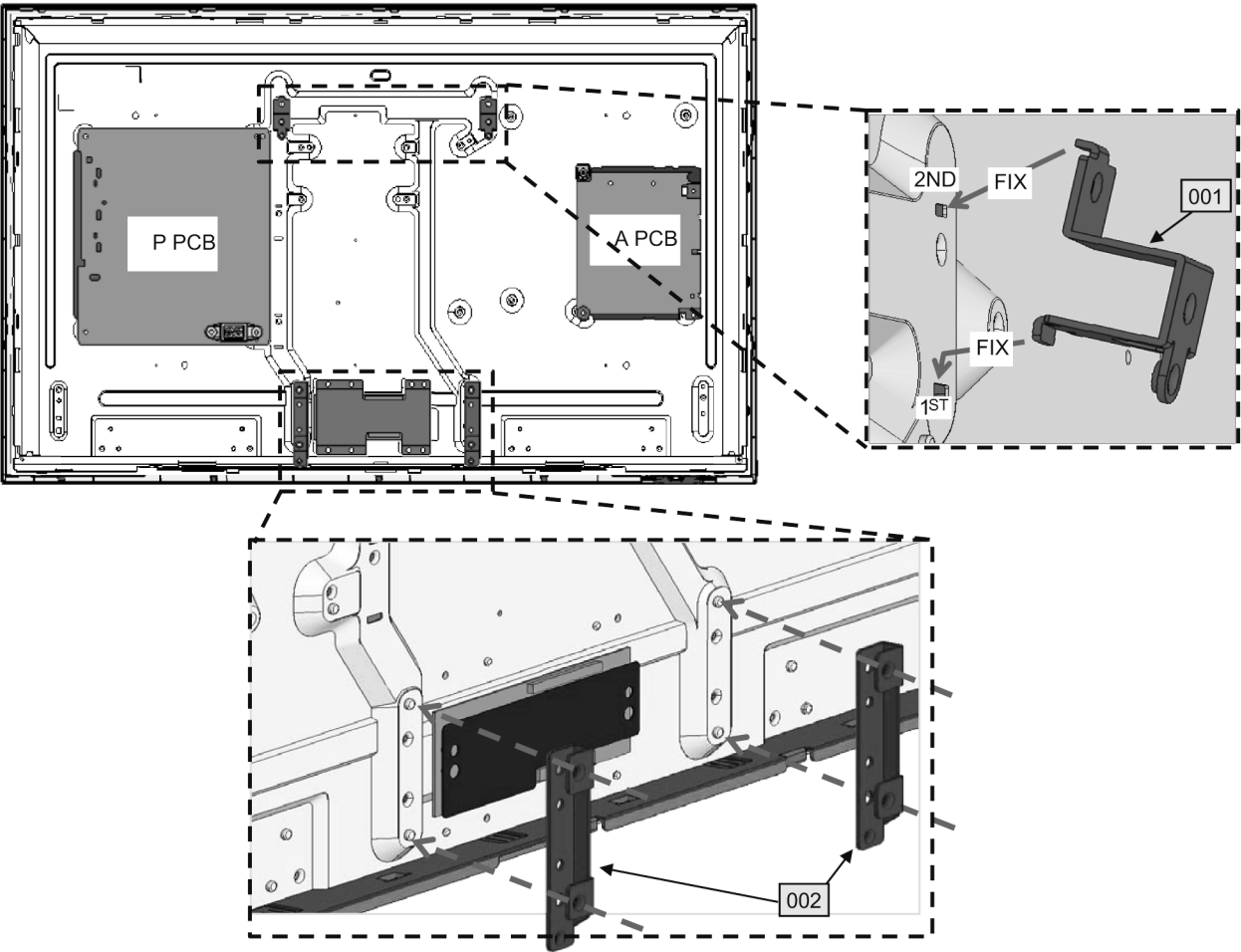
<Caution>
Please make sure there is no abnormal
gasket hair like a picture shown below.



No	Part No	Description	Qty	UOM
001	TMK4GX187	BARRIER	1	PC
002	TKP5ZA41902	SP BRACKET	4	PC

7.4. Installed Vesa Metal & PED Metal

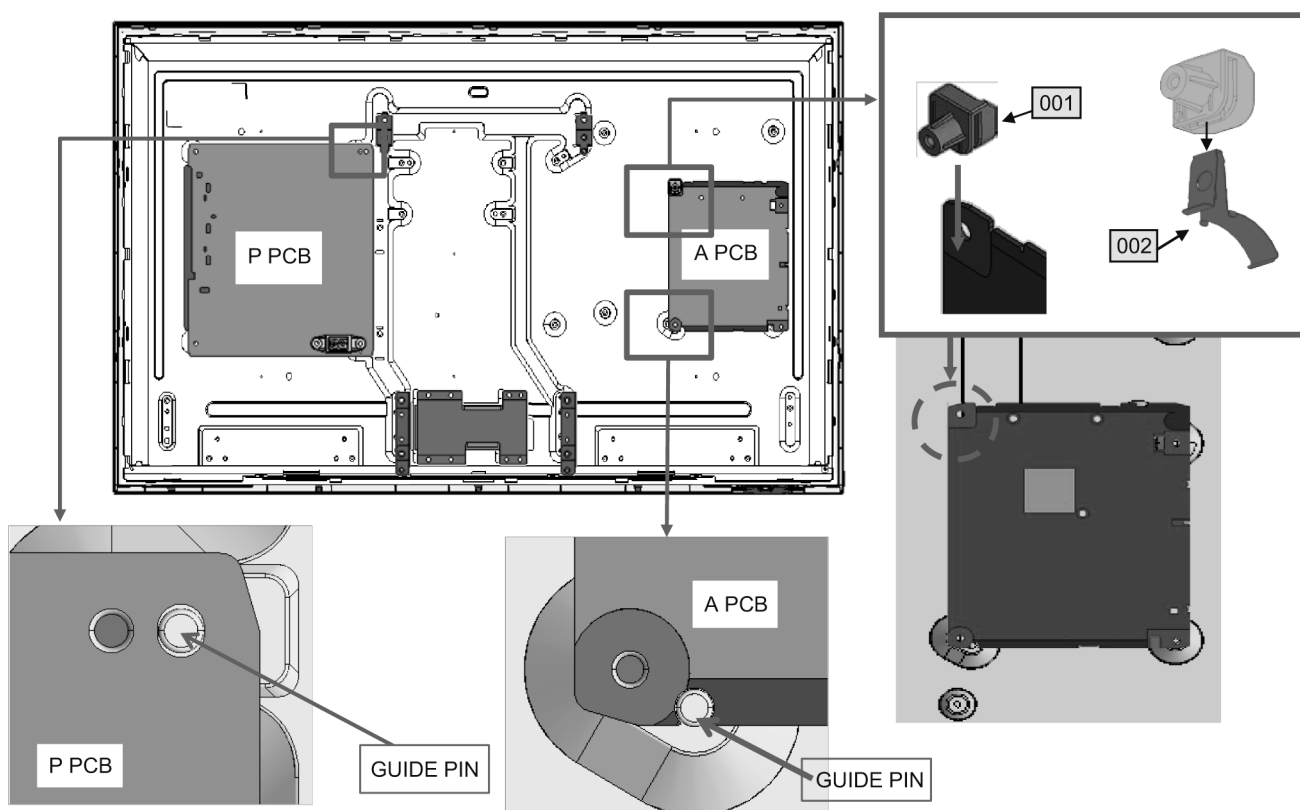
- 1. Fix VESA METAL at panel.
- 2. Installed PEDESTAL METAL at panel.



No	Part No	Description	Qty	UOM
001	TKZ5ZX50831	VESA METAL	2	PC
002	TKZ5ZC50391	PEDESTAL METAL BRACKET	2	PC

7.5. Installation A/P Board

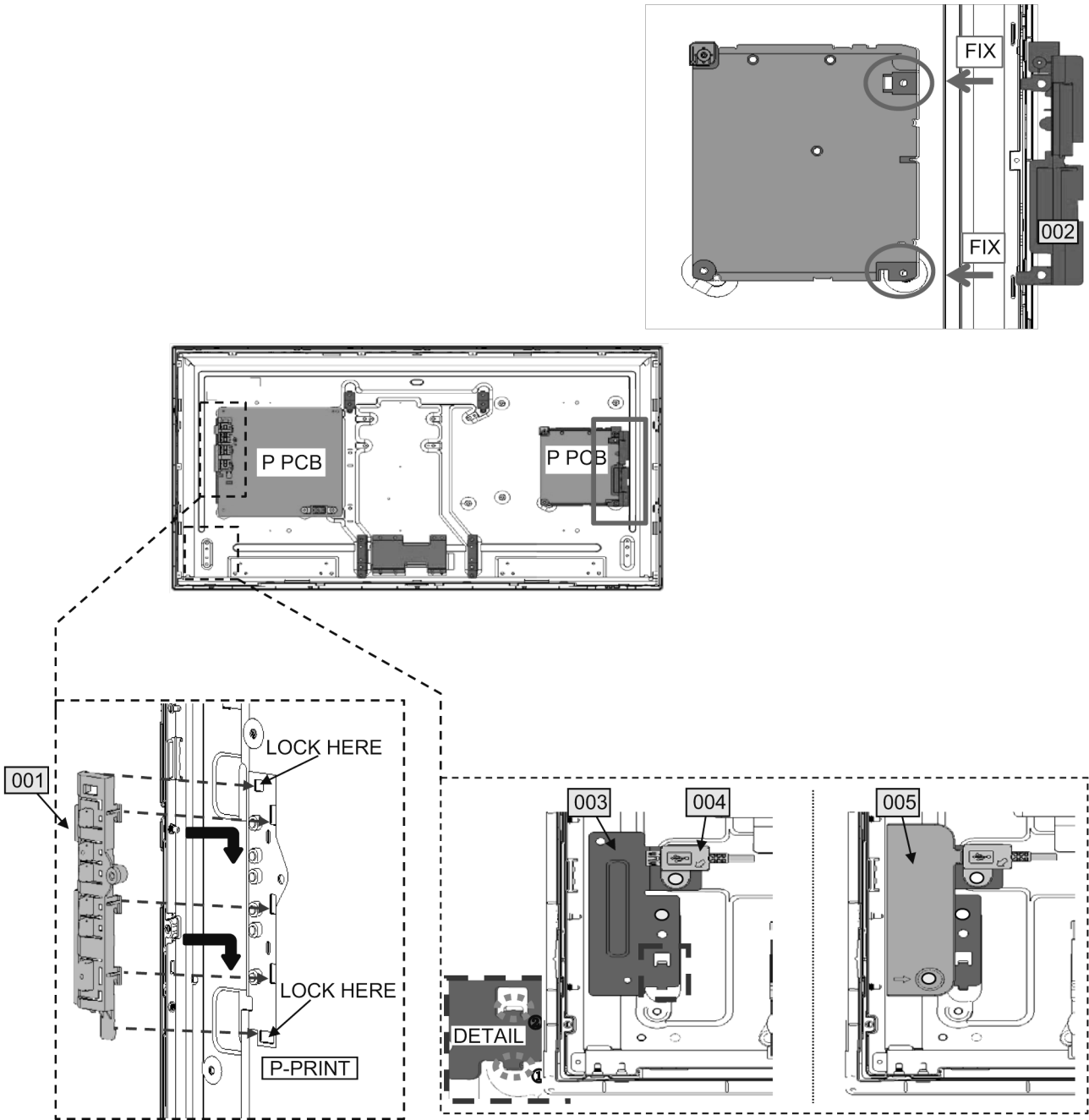
1. Install P-BOARD.
2. Install A-BOARD.



No	Part No	Description	Qty	UOM
001	TMX5ZE0041	A-PCB BRACKET	1	PC
002	TES5ZA001	GROUND SPRING	1	PC

7.6. Installation Side AV Bracket

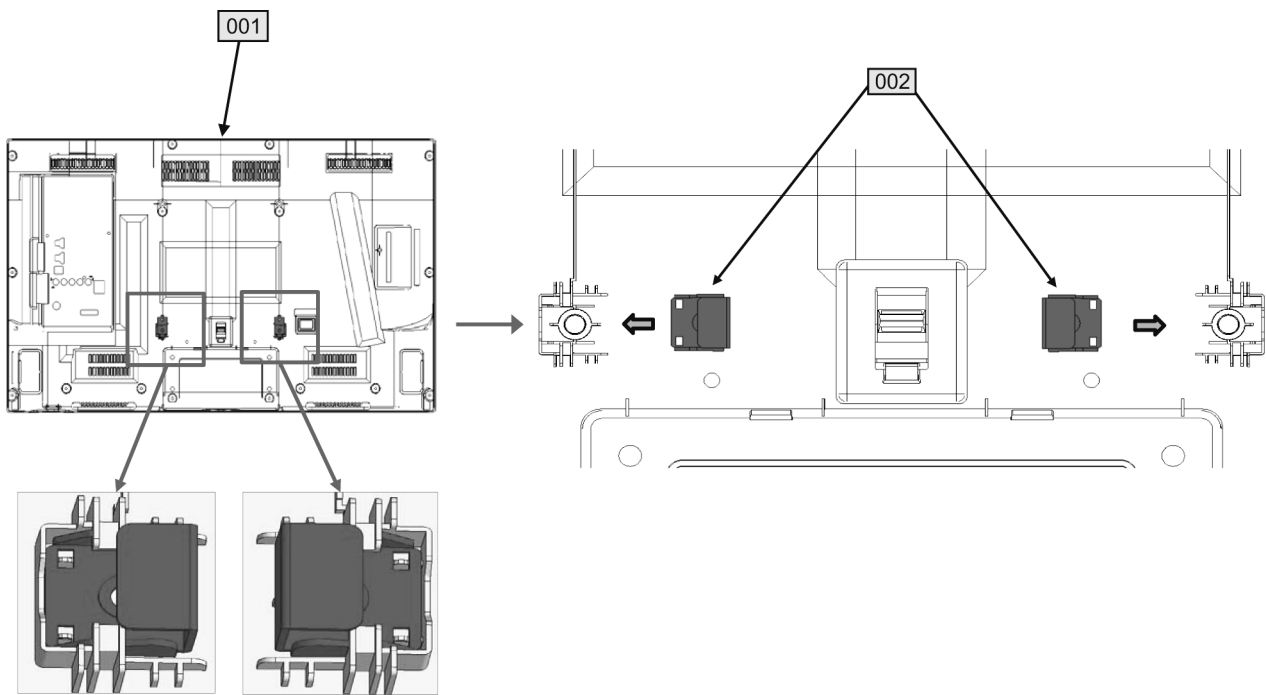
- 1. Fix SIDE AV BRACKET.
- 2. Fix KEY BUTTON.
- 3. Installed WIFI DONGLE.



No	Part No	Description	Qty	UOM
001	TBX5ZA03303	KEY BUTTON BRACKET	1	PC
002	TKP5ZA48903	SIDE AV BRACKET	1	PC
003	TUX5ZX0351	WIFI METAL	1	PC
004	K1HY05YY0222	WIFI USB CABLE	1	PC
005	N5HBZ0000109	WIFI DONGLE	1	PC

7.7. Installation Metal AV Bracket

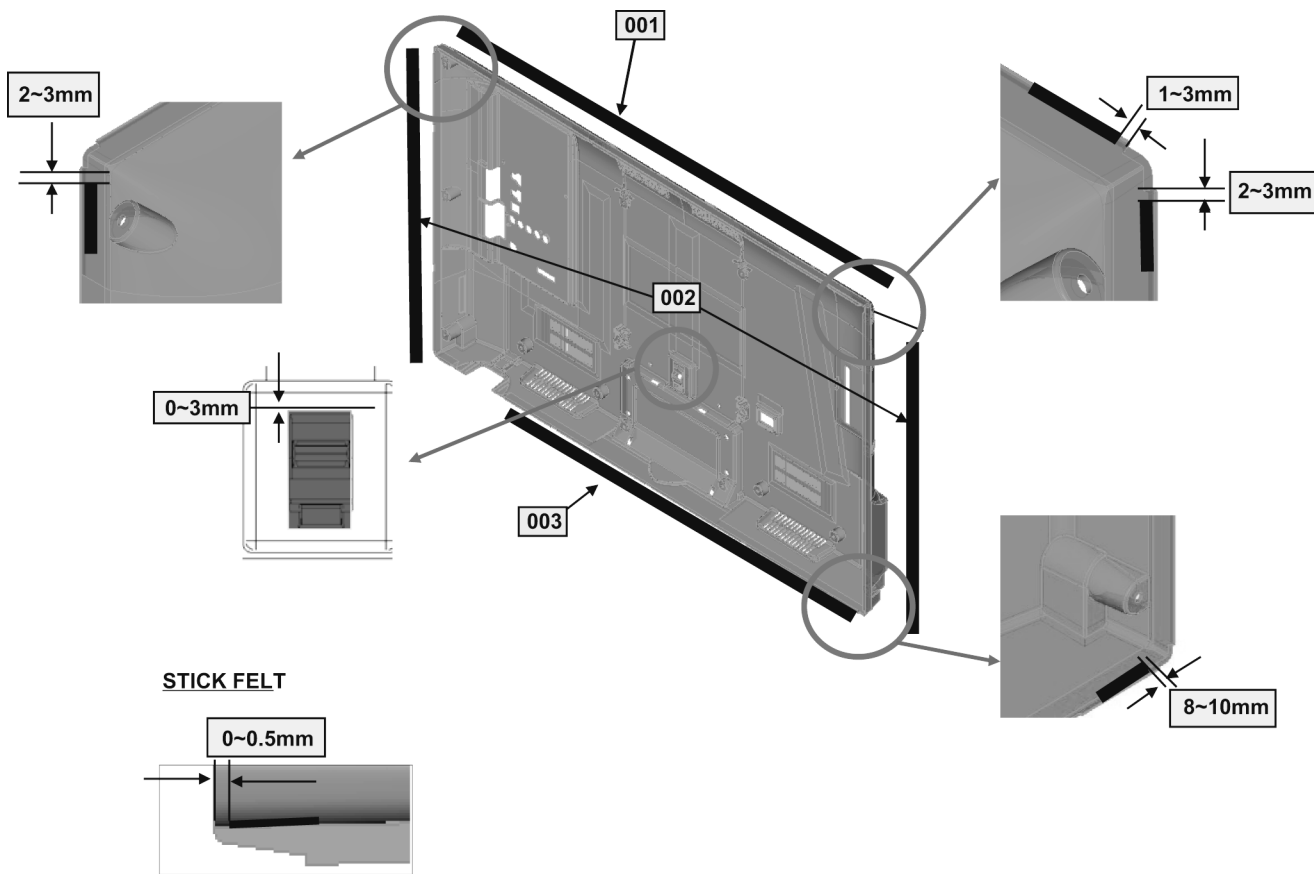
Installed VESA METAL.



No	Part No	Description	Qty	UOM
001	TKU5ZC06604	BACK COVER	1	PC
002	TKZ4GX5034	VESA METAL (BC)	1	PC

7.8. Sticking Felt at Cabinet

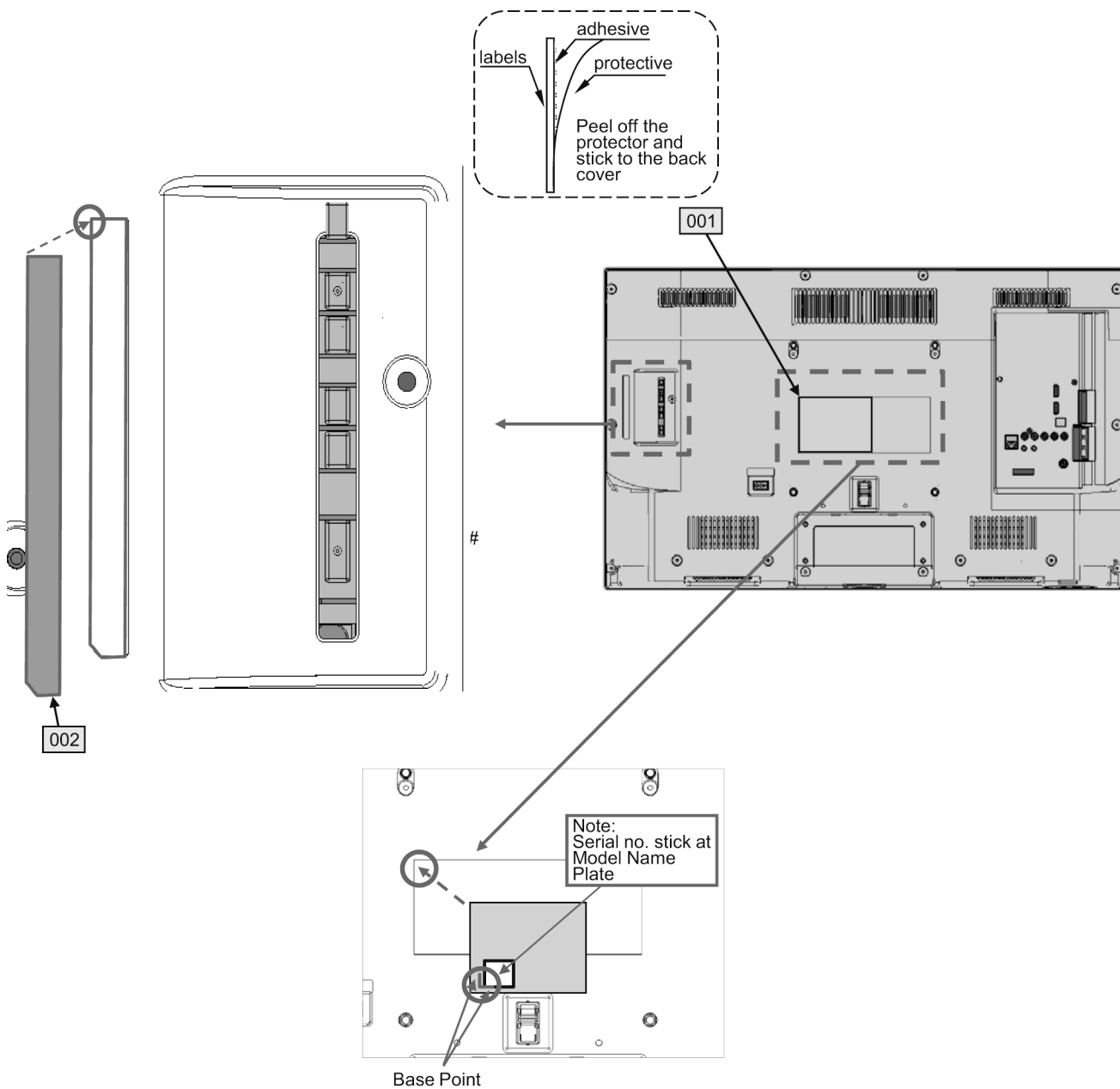
Stick FELT at CABINET follow picture.



No	Part No	Description	Qty	UOM
001	TMK4GA183	FELT (0.35t × 710 × 8)	1	PC
002	TMK4GA234	FELT (0.35t × 410 × 5)	2	PC
003	TMK4GA077	FELT (0.35t × 580 × 10)	1	PC

7.9. Label Sticking

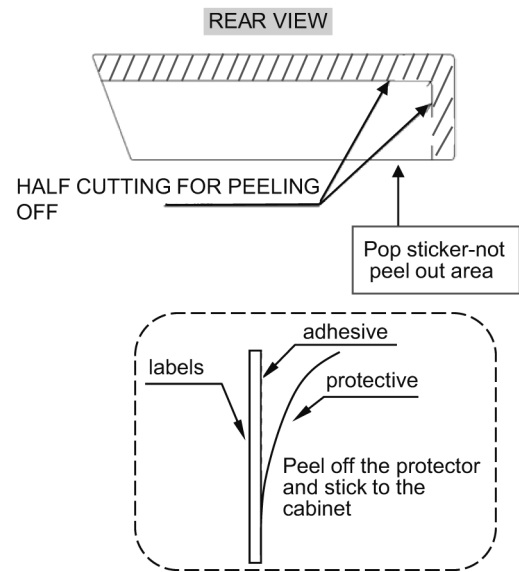
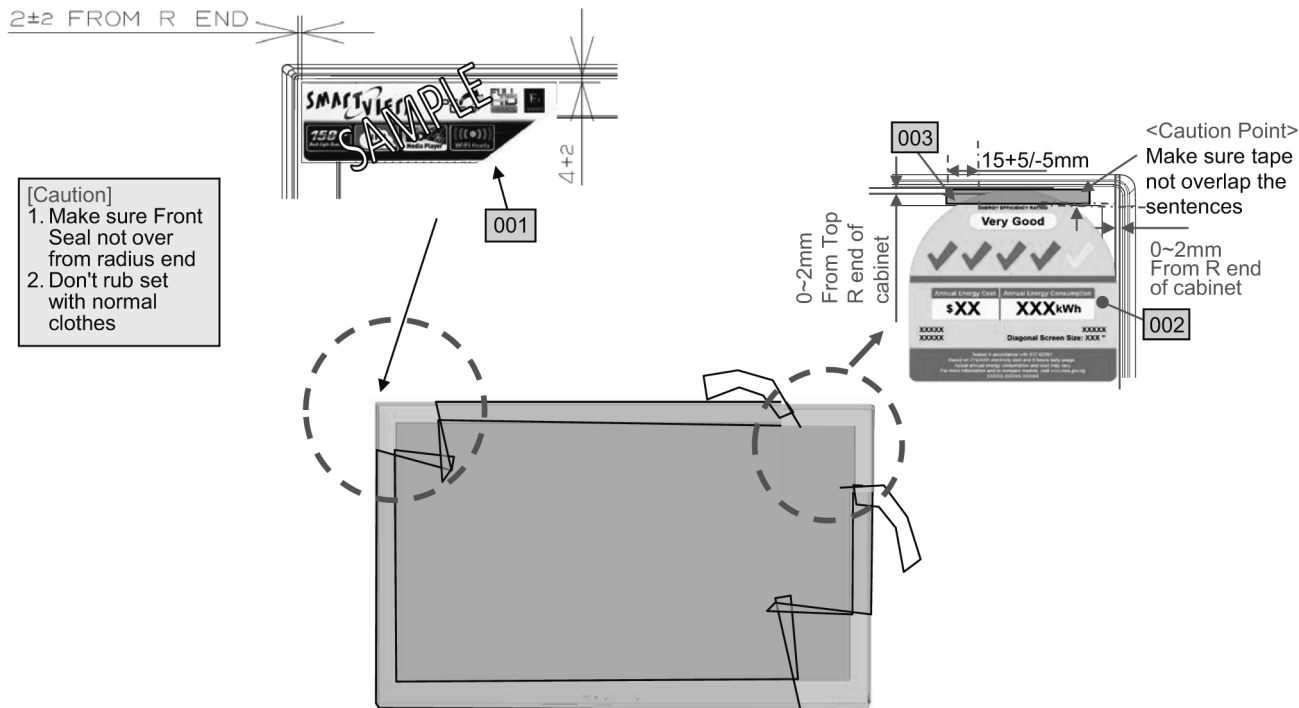
Stick labels and sticker follow accordingly. (rub evenly at least twice).



No	Part No	Description	Qty	UOM
001	TBM4GD6634	MODEL NAME PLATE	1	PC
002	TBM4GU3151	KEY IND. SHEET	1	PC

7.10. Pop Sticker & Label Sticking

- 1. Peel off the Protection Tape at cabinet.
- 2. Stick labels to cabinet then blow set with ioning air (Ionizers).
- 3. Then properly return the protection Tape to its original position.



No	Part No	Description	Qty	UOM
001	TQFT740	POP STICKER	1	PC
002	TQF4GA704	ENERGY LABEL	1	PC
003	T4FL0707N	BLUE TAPE	0.06	MT

7.11. Fan Bag Assembly

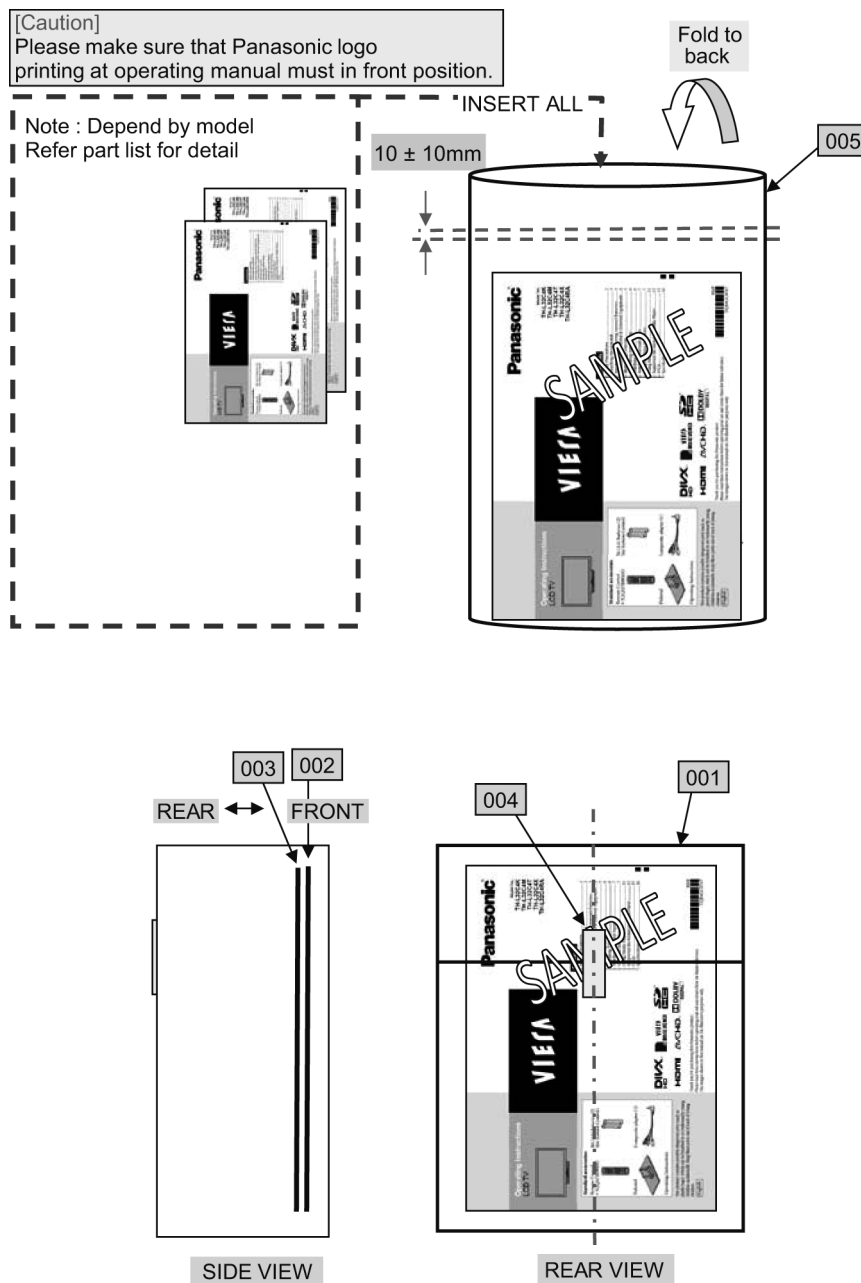
1. (Fall Prevention Accessories Ass'y)

Insert all screws and Fall - Prevention Band into bag and ensure bag fully seal (lock).

2. Insert all part into cover for fan bag.

3. Direction and sequence (depend by model - Refer part list for detail).

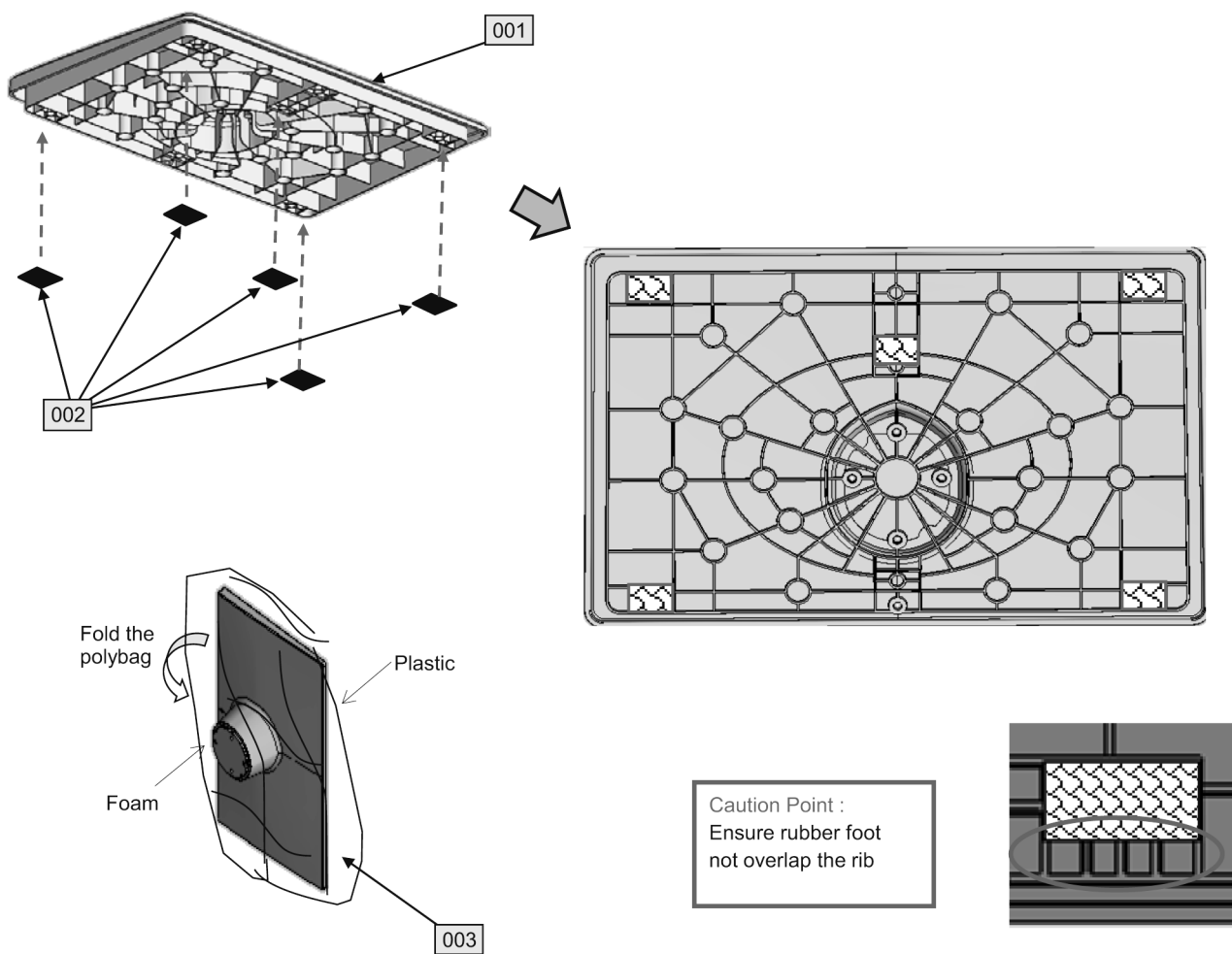
4. Fold cover for fan bag and stick with yellow masking tape.



No	Part No	Description	Qty	UOM
001	TQZ4GB959	FAN BAG ASSY	1	PC
002	TQB4GC1410	OPERATING MANUAL (ENGLISH)	1	PC
003	TQB4GC1411	OPERATING MANUAL (CHINESE SIMPLIFIED)	1	PC
004	T5E4G62400	YELLOW MASKING TAPE	0.04	MT
005	XZB20X32A02	BAG	1	PC

7.12. Pedestal Ass'y

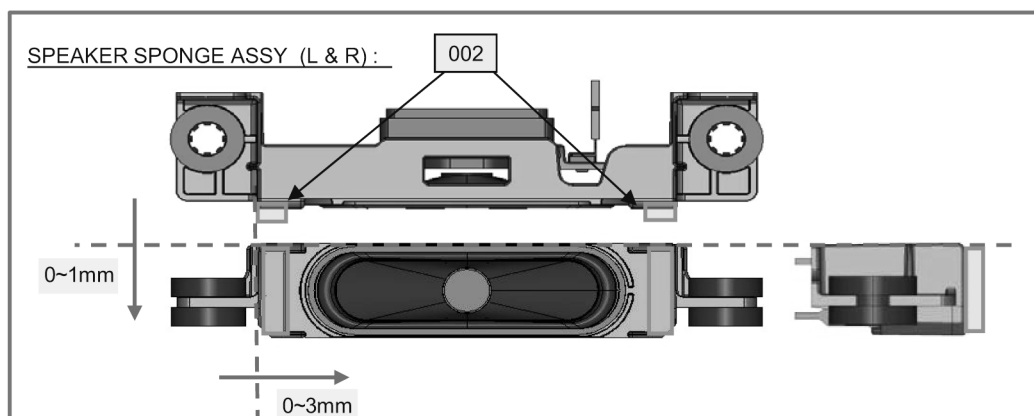
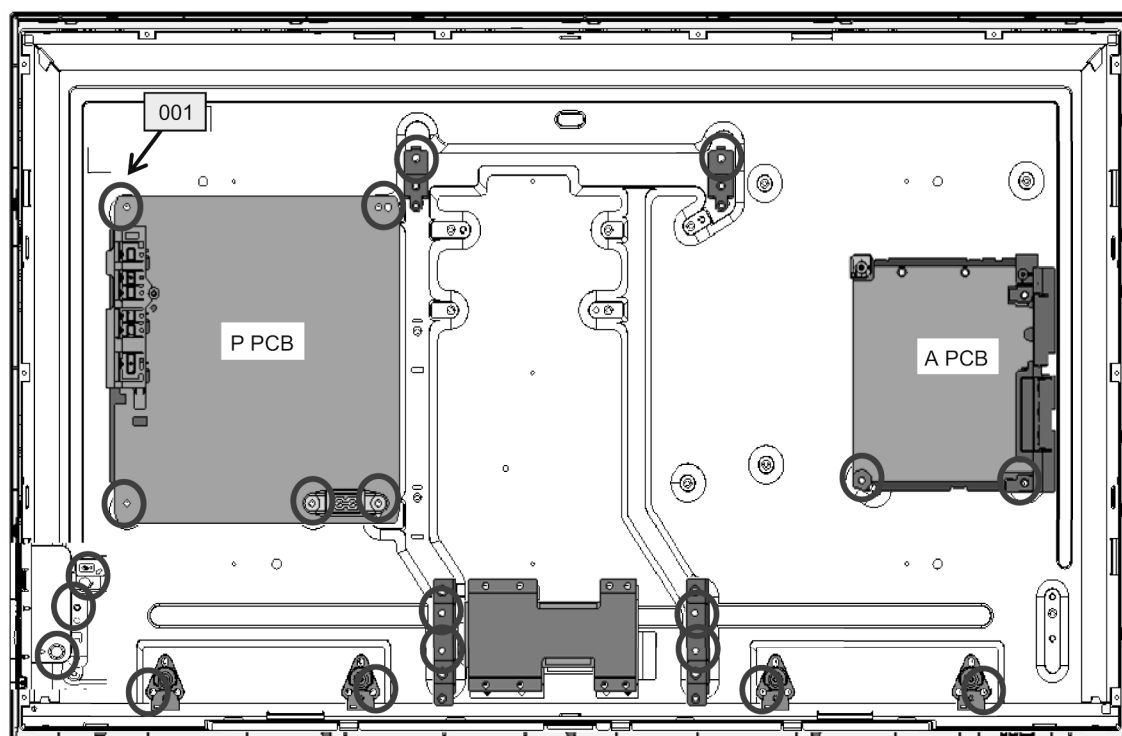
Fix rubber foot 5 pc at Pedestal cover.



No	Part No	Description	Qty	UOM
01	TBL5ZB33361	BASE COVER	1	PC
02	TBL5ZG30211	RUBBER FOOT	5	PC
03	TPE4GH055	BAG FOR PEDESTAL	1	PC

7.13. Tightening Screw

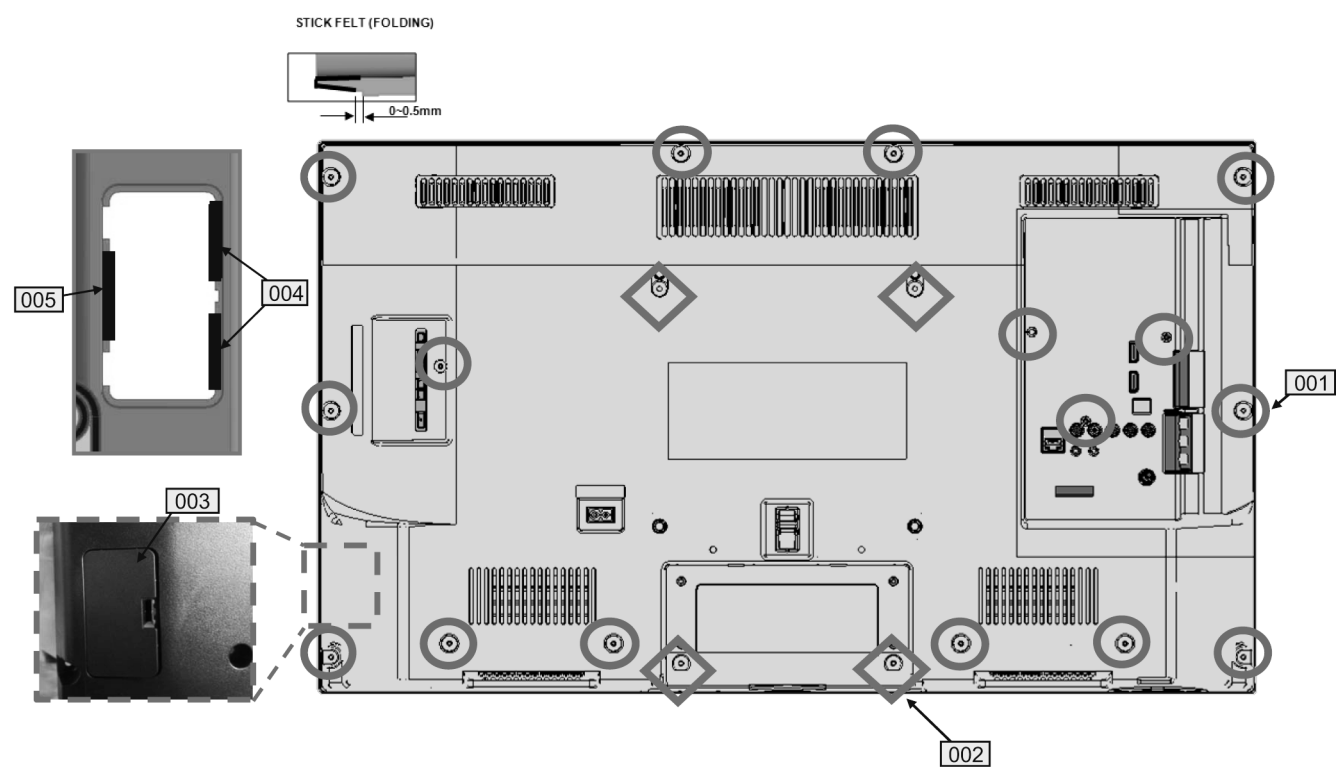
1. Fix screw according to picture below.
2. Stick felt to SP and attach to SP bracket.



No	Part No	Description	Qty	UOM	Remarks
001	THEJ036J	SCREW (A2/P5/VESA2/MTLBRKT4/SP4/WIFI3)	20	PC	6 ± 1 Kgfc _m
002	TMK4GG100	SP SPONGE	4	PC	
003	L0EYAA000052	SP UNIT	1	PC	

7.14. Tightening Screw B/Cover

Fix SCREW at B/COVER.



No	Part No	Description	Qty	UOM	Remarks
001	THTD037J	SCREW (TERMINAL3/CTRLBTN1/BC12)	16	PC	6 ± 1 Kgf.cm
002	THEC1509	SCREW (BC4)	4	PC	6 ± 1 Kgf.cm
003	TKK5ZL50201	DONGLE COVER	1	PC	
004	TMK4GA300	FELT	2	PC	
005	TMK4GA301	FELT	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.

Power Supply Name	Measurement Point	Specification
PANEL12V	TP4097	11.3V - 13V
SUB3.3V	TP5400	3.16V - 3.48V
SUB5V	TP5420	4.98V - 5.25V
SUB1.5V	TP8101	1.45V - 1.57V
SUB1.1V	TP8100	1.14V - 1.26V
STB5V	TP5200	4.9V - 5.4V
STB3.3V	TP5002	3.14V - 3.46V
HDMI3.3V	TP8000	3.14V - 3.46V

8.2. Voltage chart of P-board

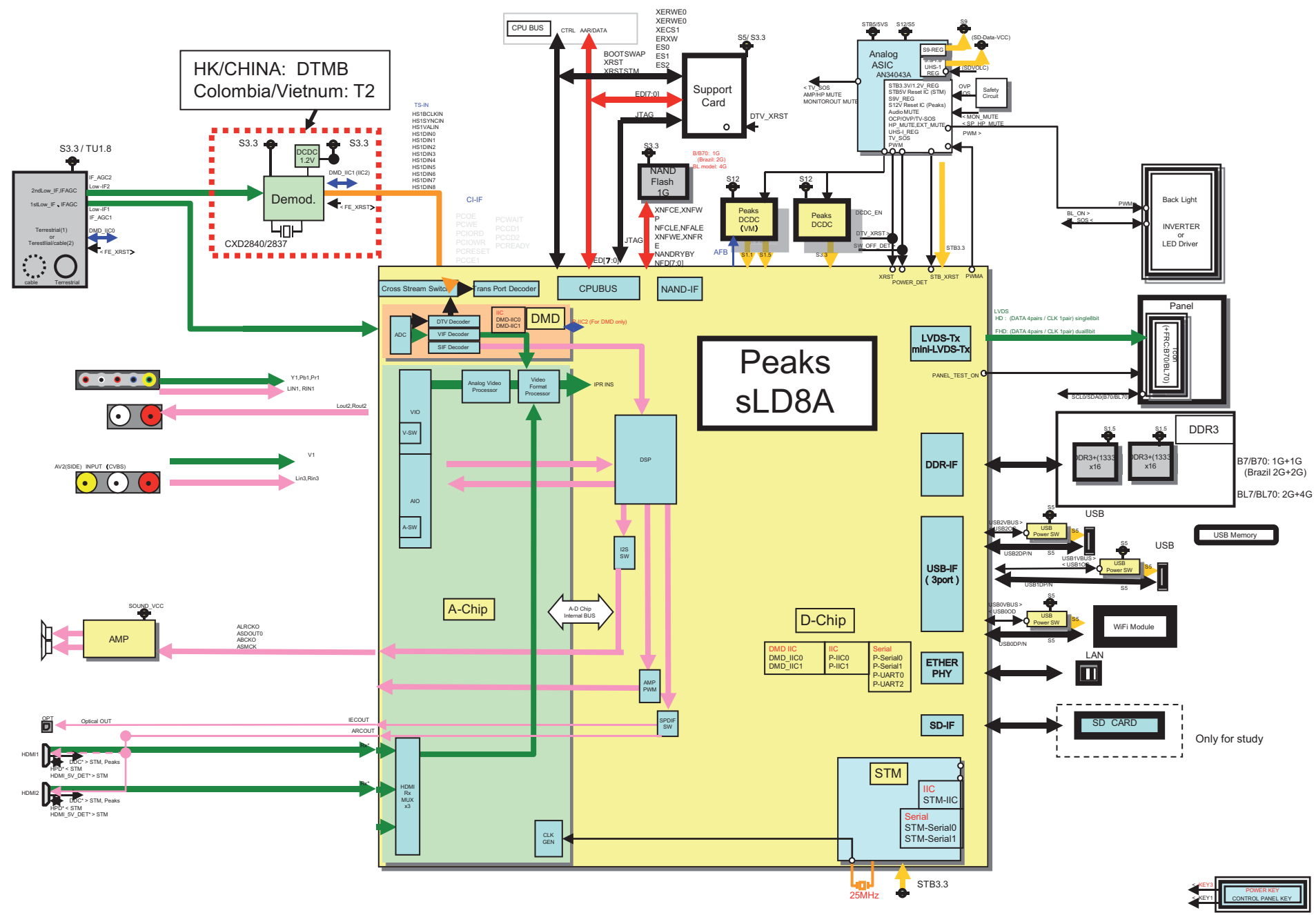
Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification	
		Operate	Standby
5.3V	TP7507	$5.3 \pm 0.3V$	$5.3 \pm 0.3V$
16V	TP7512/TP7513	$15.8 \pm 0.6 V$	-

NOTE : GND REFERENCE TP7510/TP7511

9 Block Diagram

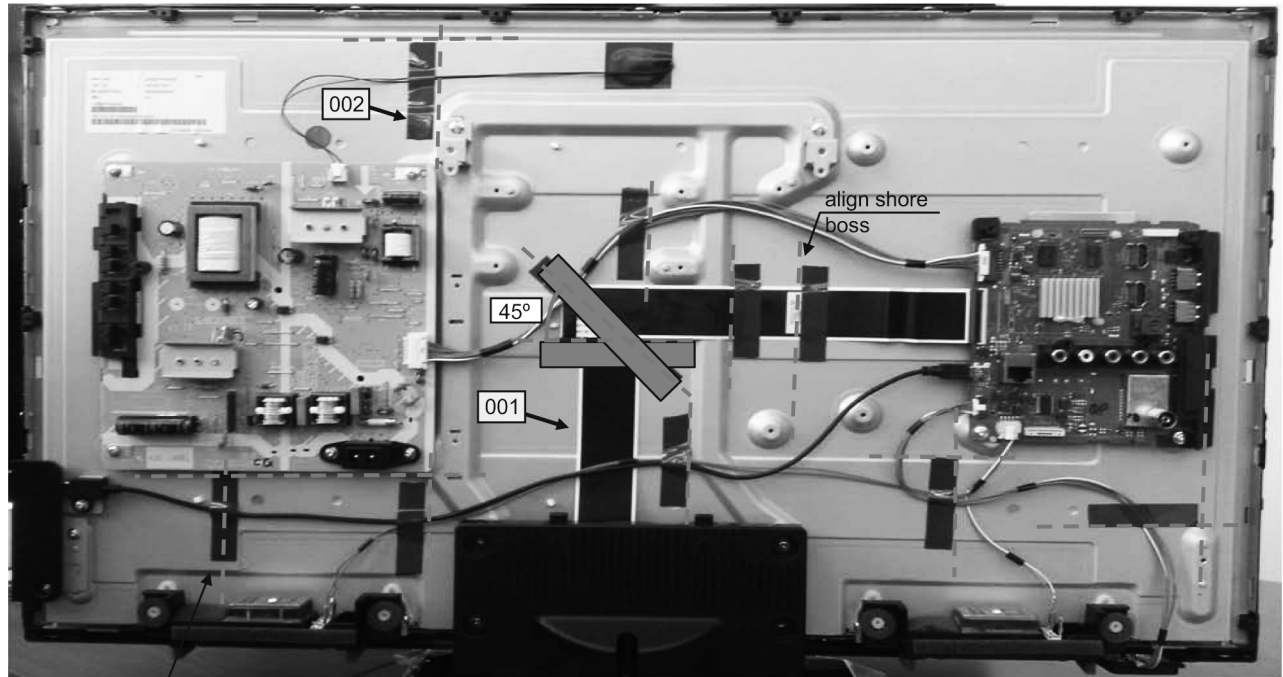
9.1. Main Block Diagram



10 Wiring Connection Diagram

10.1. Wire Dressing

1. Stick AL Tape.
2. Follow wire dressing as picture.



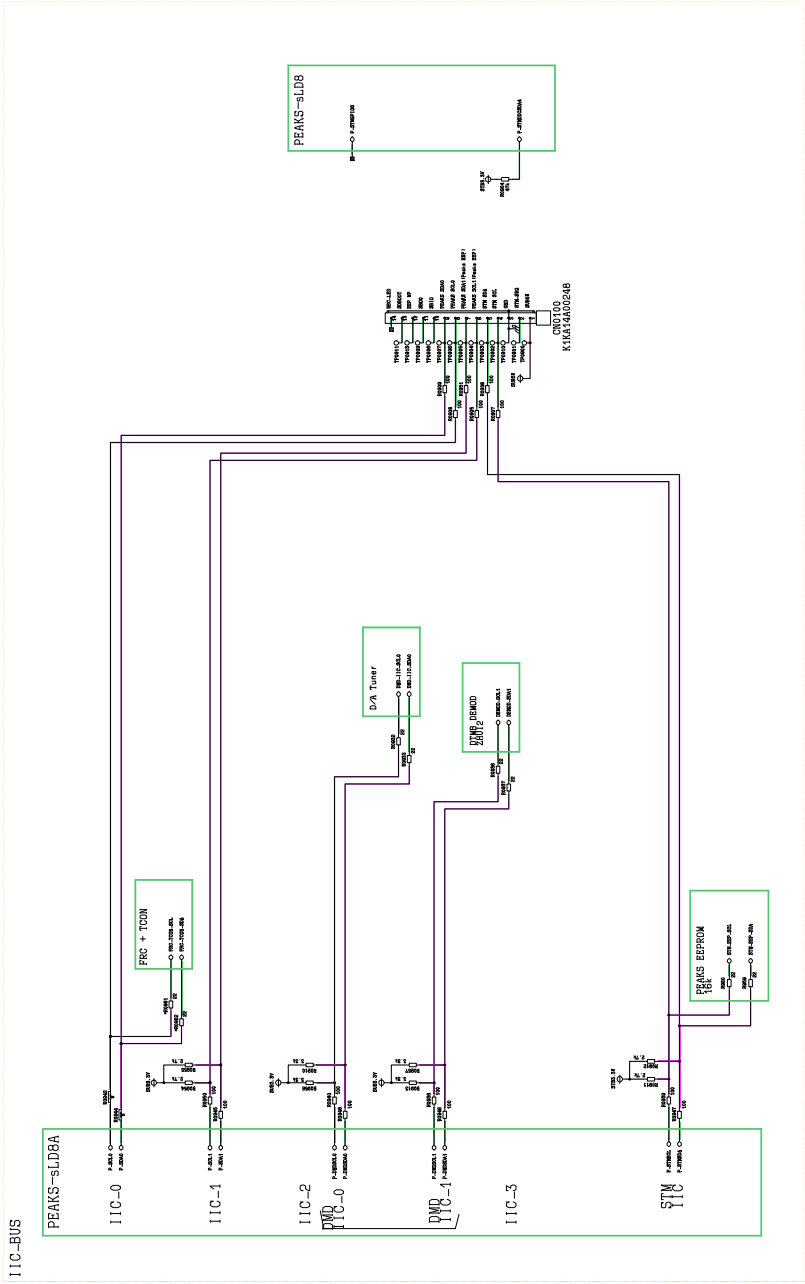
Centre tape with
2 LVDS cable

No	Part No	Description	Qty	UOM
001	TSCKF0700001	LVDS FFC	1	PC
002	T4FP15050	PET TAPE (10 × 0.06/1 × 0.11)	0.71	PC

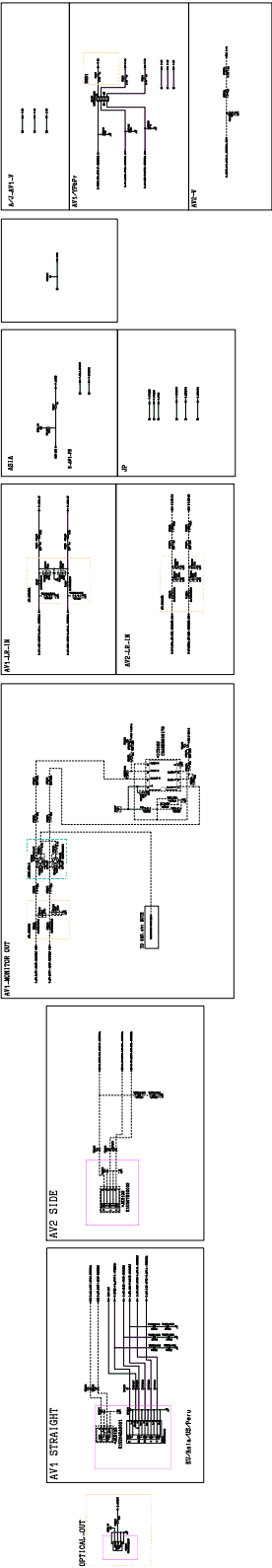
11 Schematic Diagram

Model No. : TH-32CS510S A-Board (1/19)

SHEET 002
IIC Net
REF No. 0900 - 0999
[Net Variation]
Each PCB

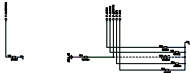


SHEET 004
AVSW
REF No. 3050 - 3249

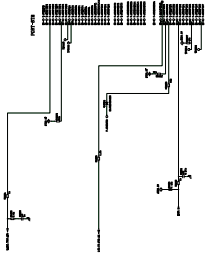


SHEET 005
PEAKS_OTHER

REF No. 8800 - 8849
[Net Variation]
Common

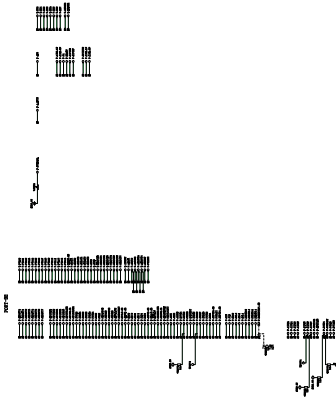


[Block Name]
STM Port
REF No. 8850 - 8870
[Net Variation]
Common



For 8850 only

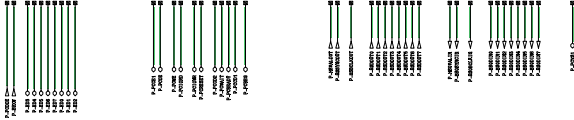
[Block Name]
Peaks Port
REF No. 8870 - 8889
[Net Variation]
Common



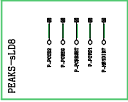
SHEET 006
CI
REF No. 8400 – 8449
[Net Variation]
Common

CI

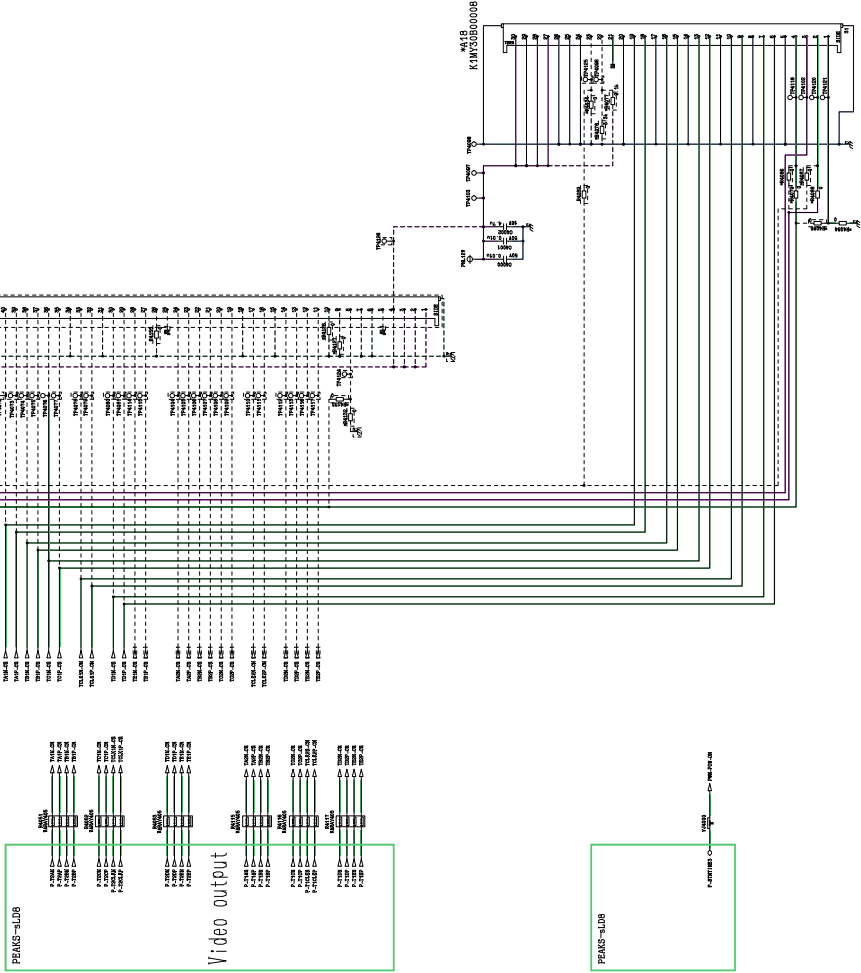
Praks-LD4



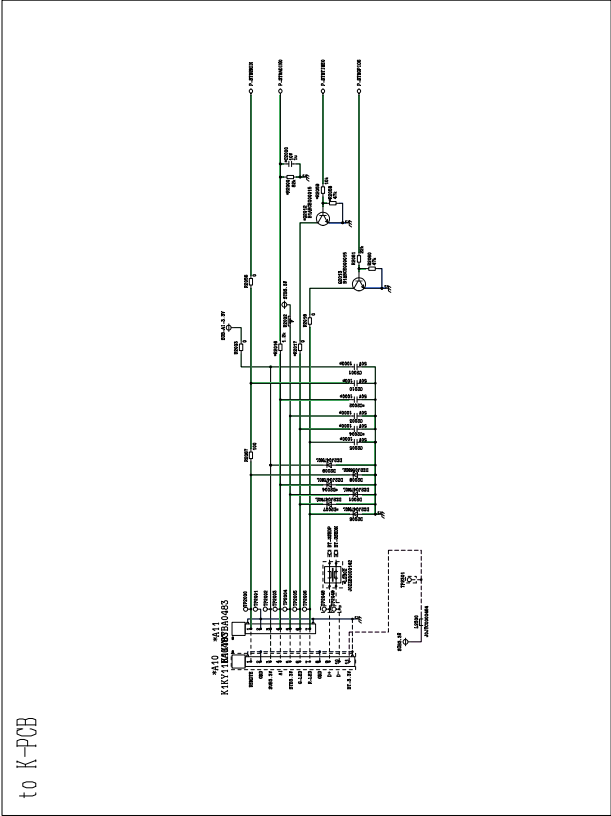
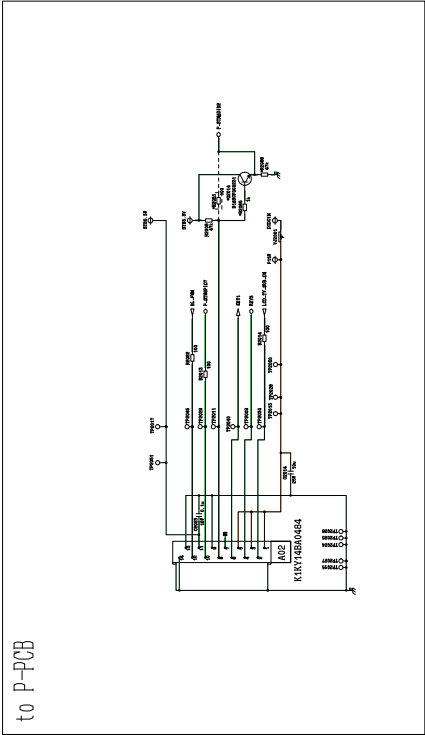
[Block Name]
B-CAS
REF No. 2700 – 2749
[Net Variation]



SHEET 009
LVDS-IF/T-CON
REF No. 4000 - 4499
[Net Variation]
LVDS



SHEET 101
SET
REF No. 2000 - 2299
[Net Variation]
TNP0993

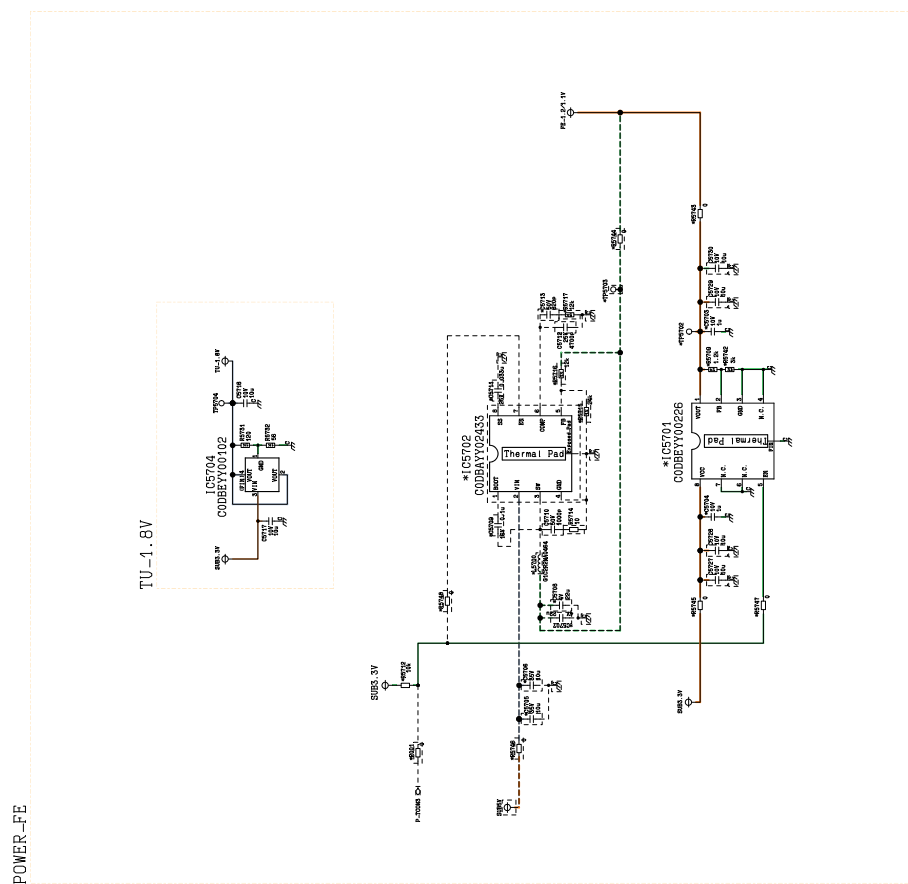


SHEET 102
POWER FOR TV+FE

REF No. 5700 - 5899

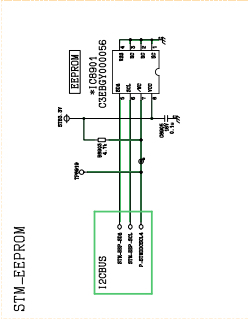
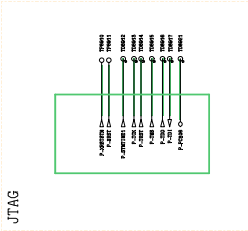
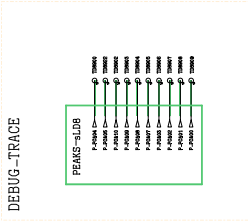
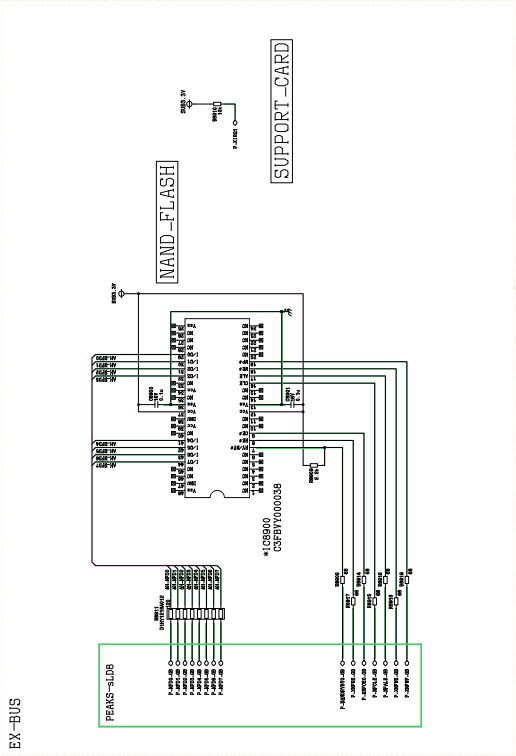
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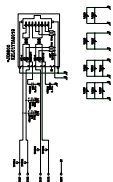
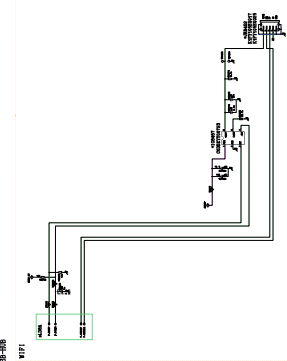
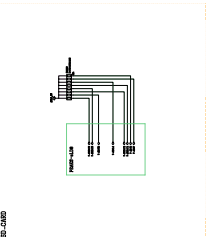
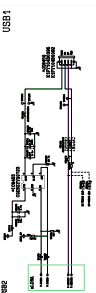
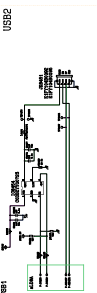
8DL5



SHEET 300
COMMON-NAND/SPC/EEPROM/JTAG

REF No.
[Net Variation]
Common

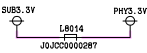
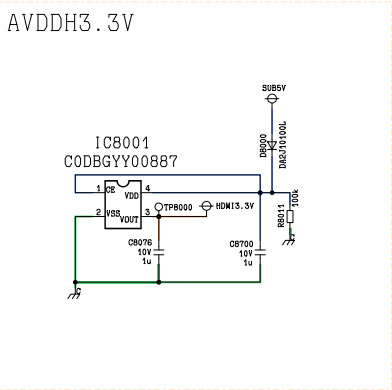


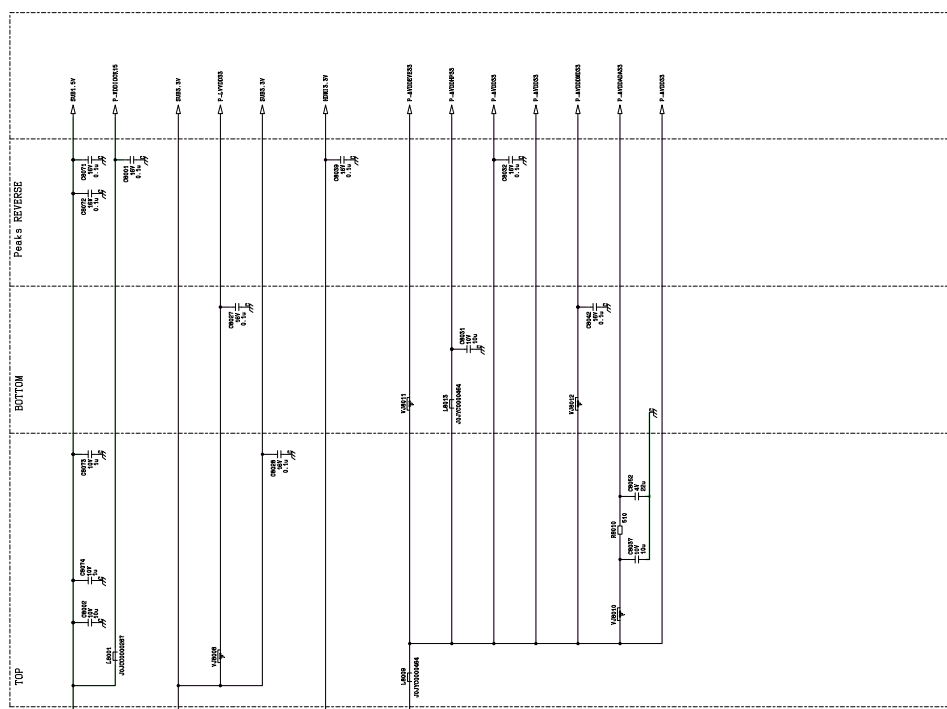
[Block Name] LAN REF No. 8600 - 8659 [Net Variation] Common 		[Block Name] USB REF No. 8450 - 8599 [Net Variation] Common 		[Block Name] SD  REF No. 8660 - 8699 [Net Variation] 		SHEET 301 COMMON-EtherPHY/USB/SD	
		 					

SHEET 302

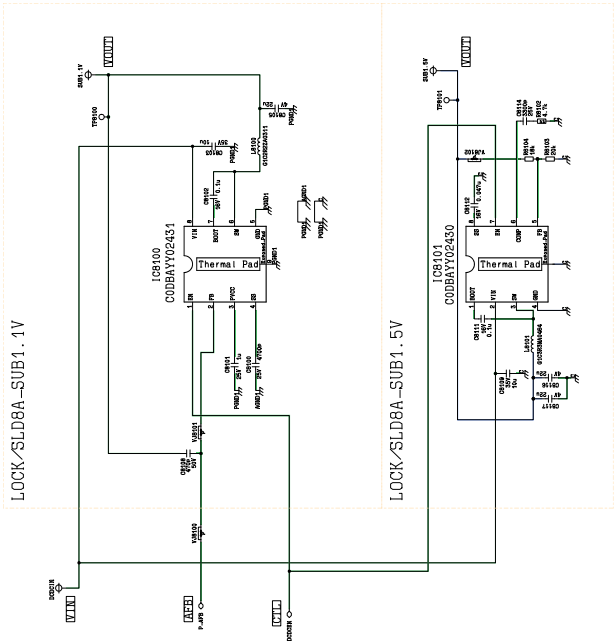
COMMON POWER

REF No. 8000 – 8999





SHEET 701
LOCK-PEAKS-POWER
CRN0:8001 - 8099

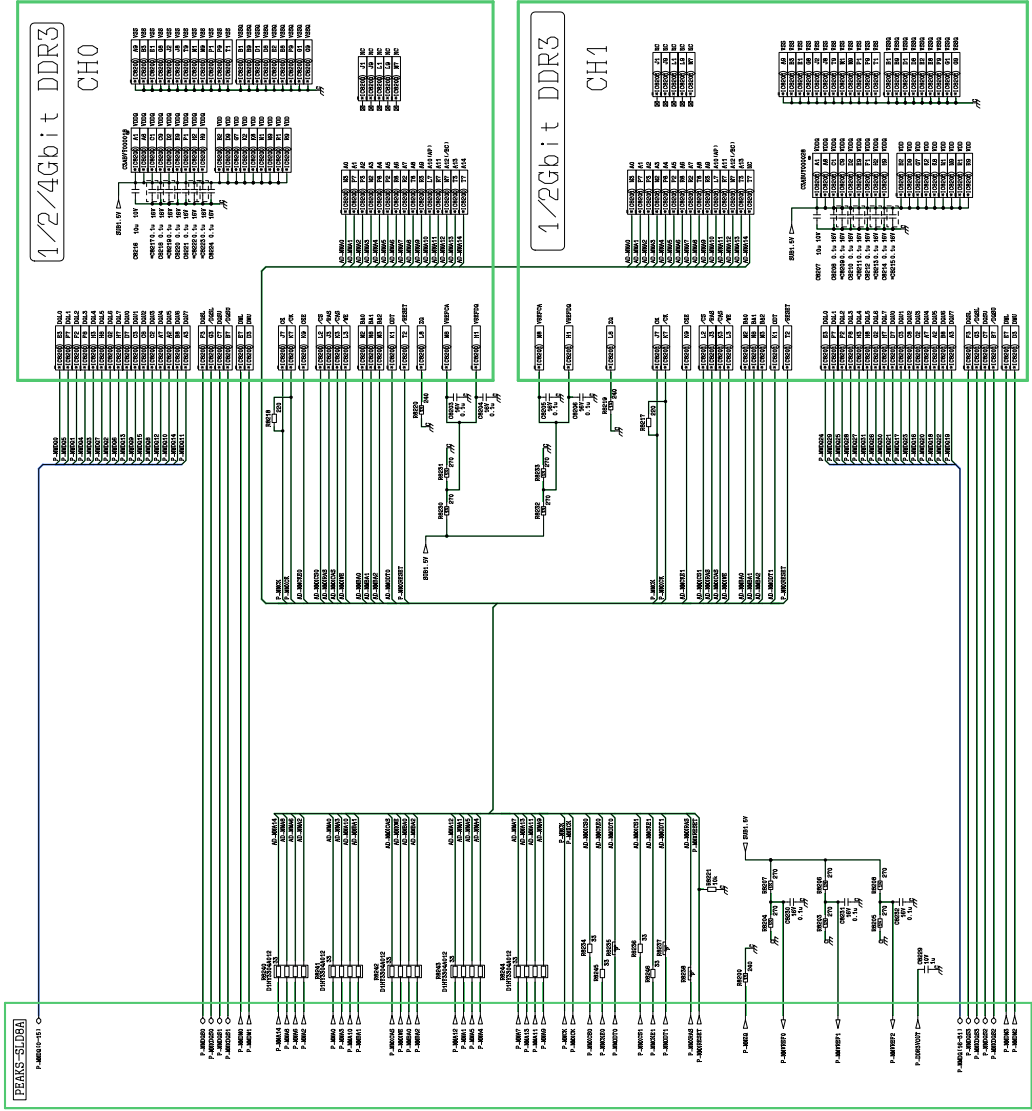


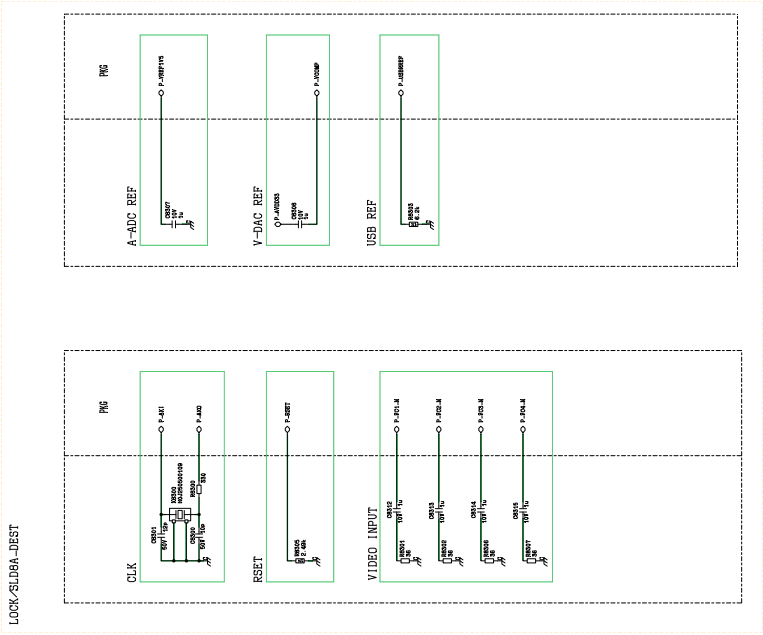
SHEET 702

LOCK-PEAKS-DCDC

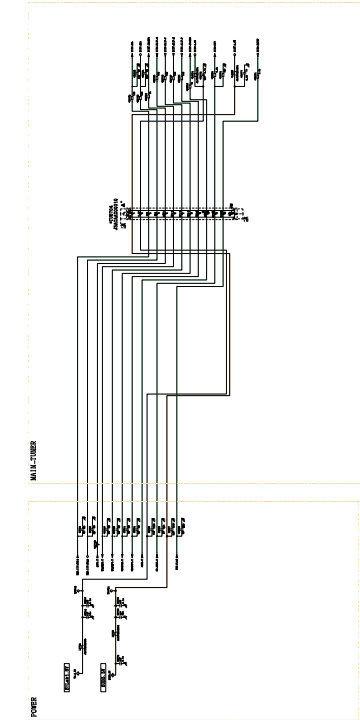
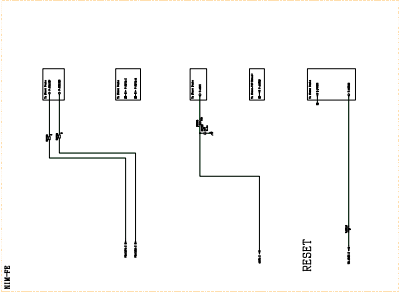
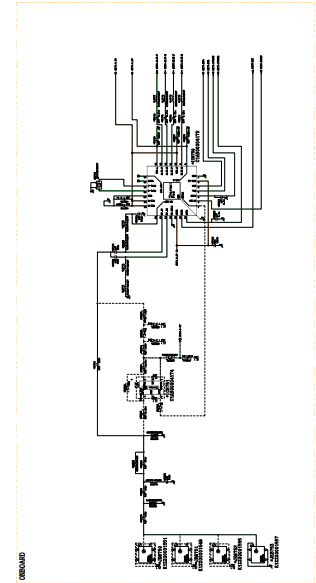
CRNo:8100 - 8199

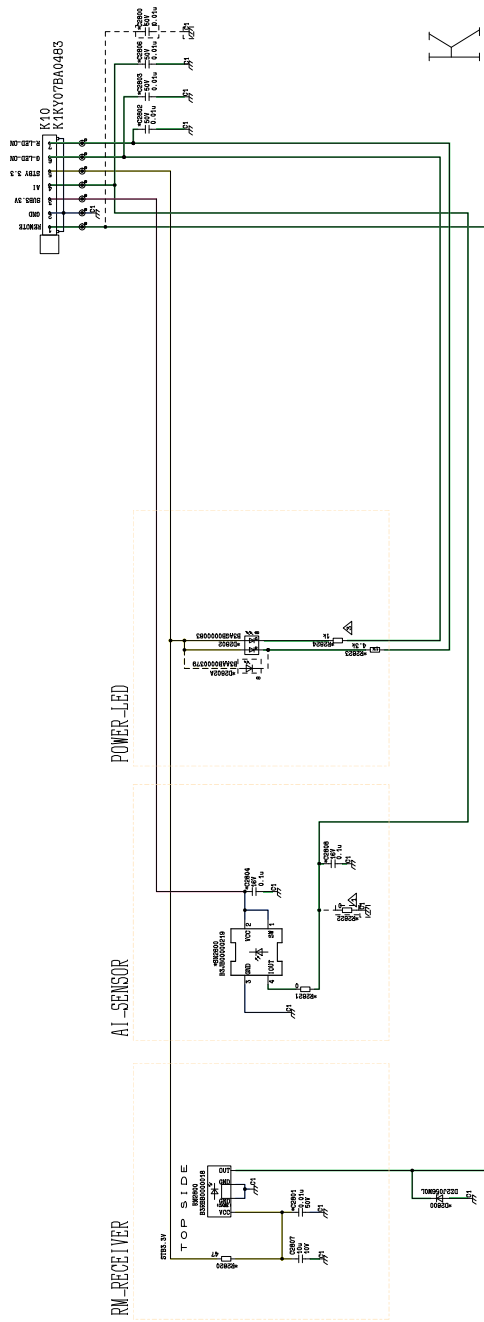
LOCK/SLDBA-DDR3





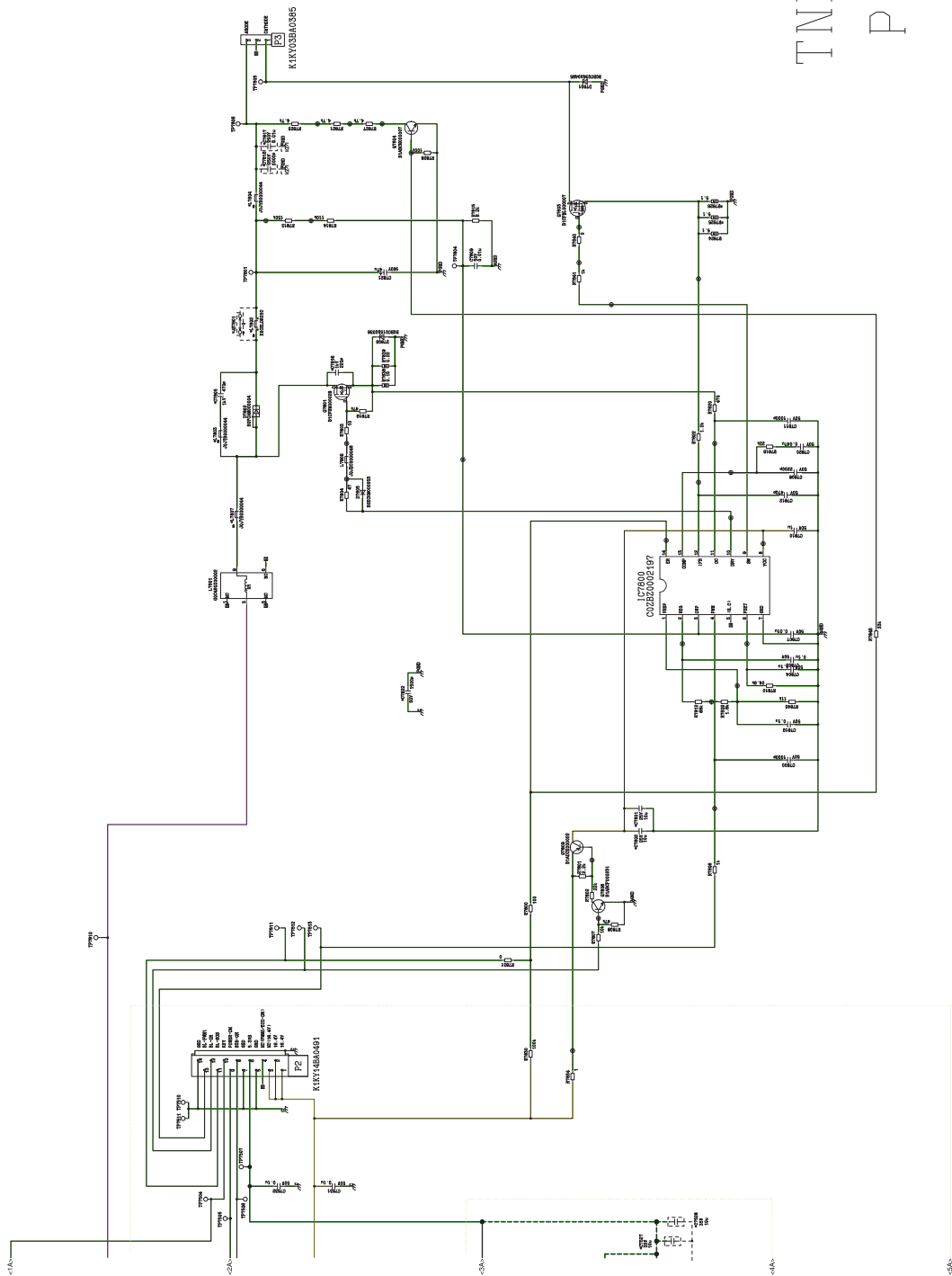
SHEET 706
TUNER
CRNo.6700 - 6799





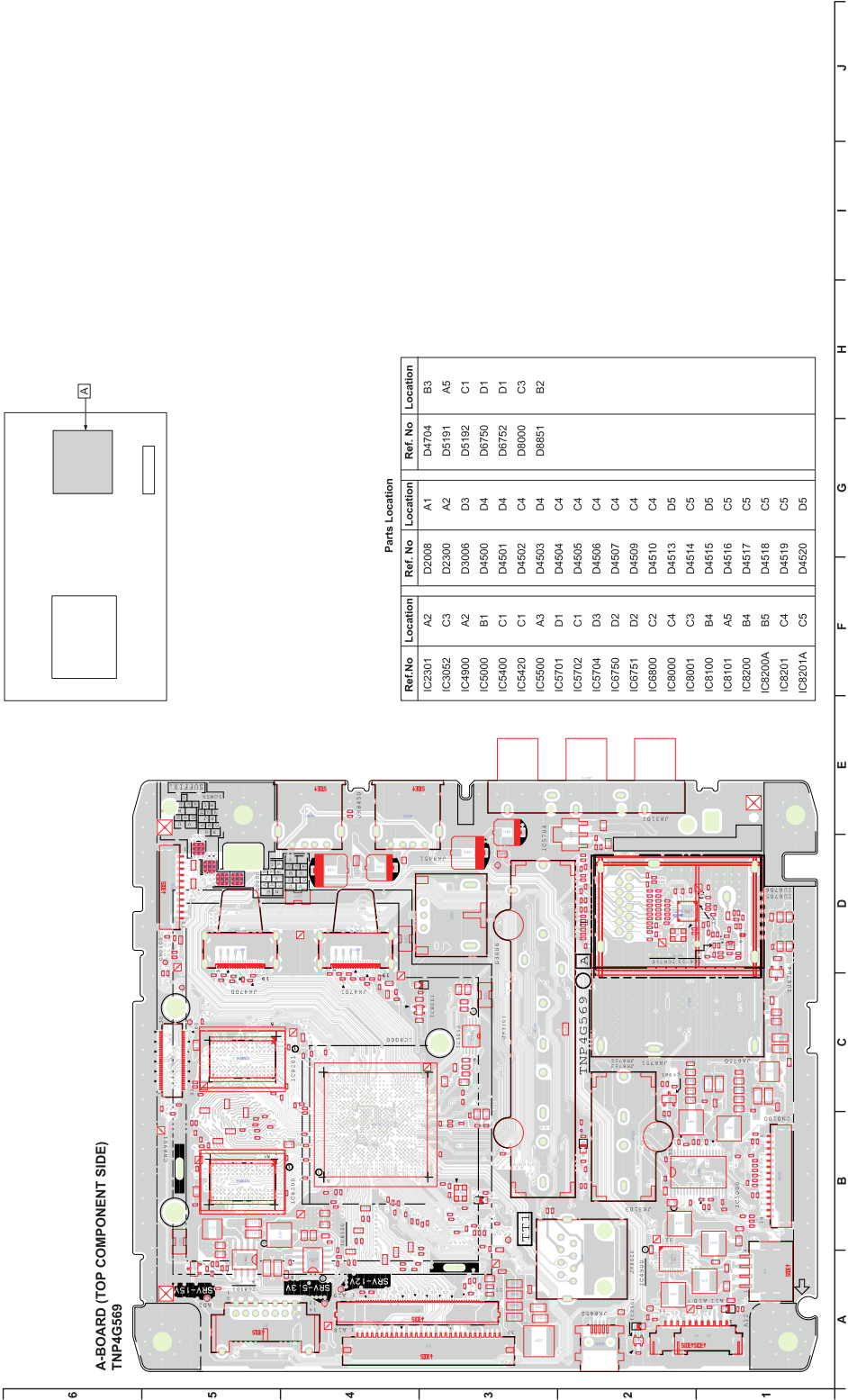
K BOARD
TNPA6010AA

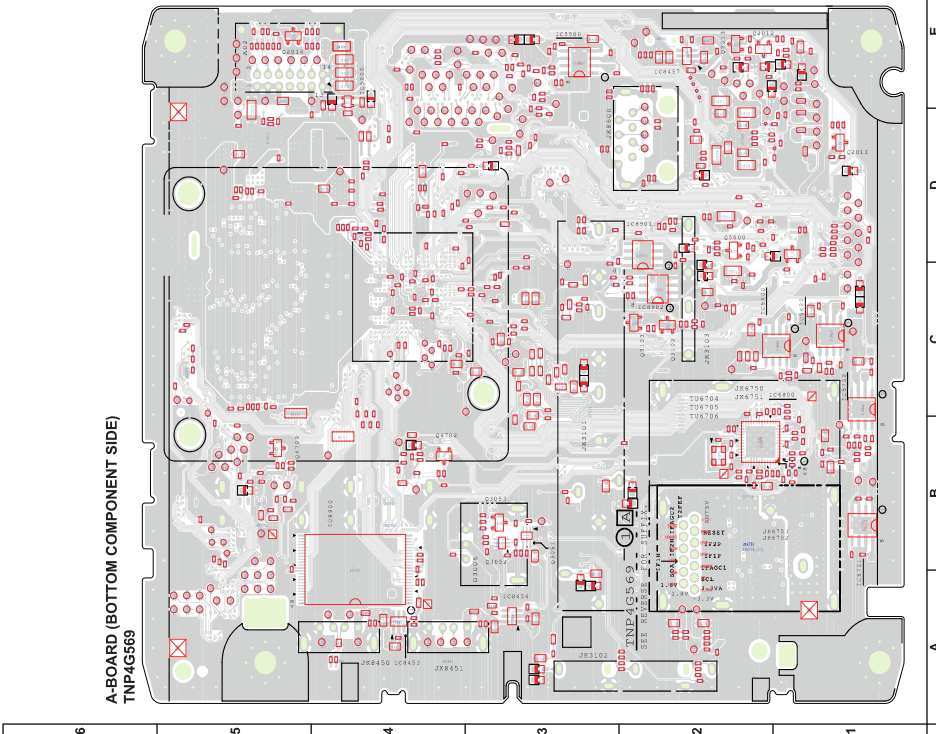
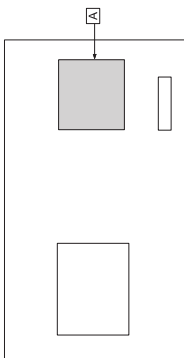
TNP4G572EC
P BOARD



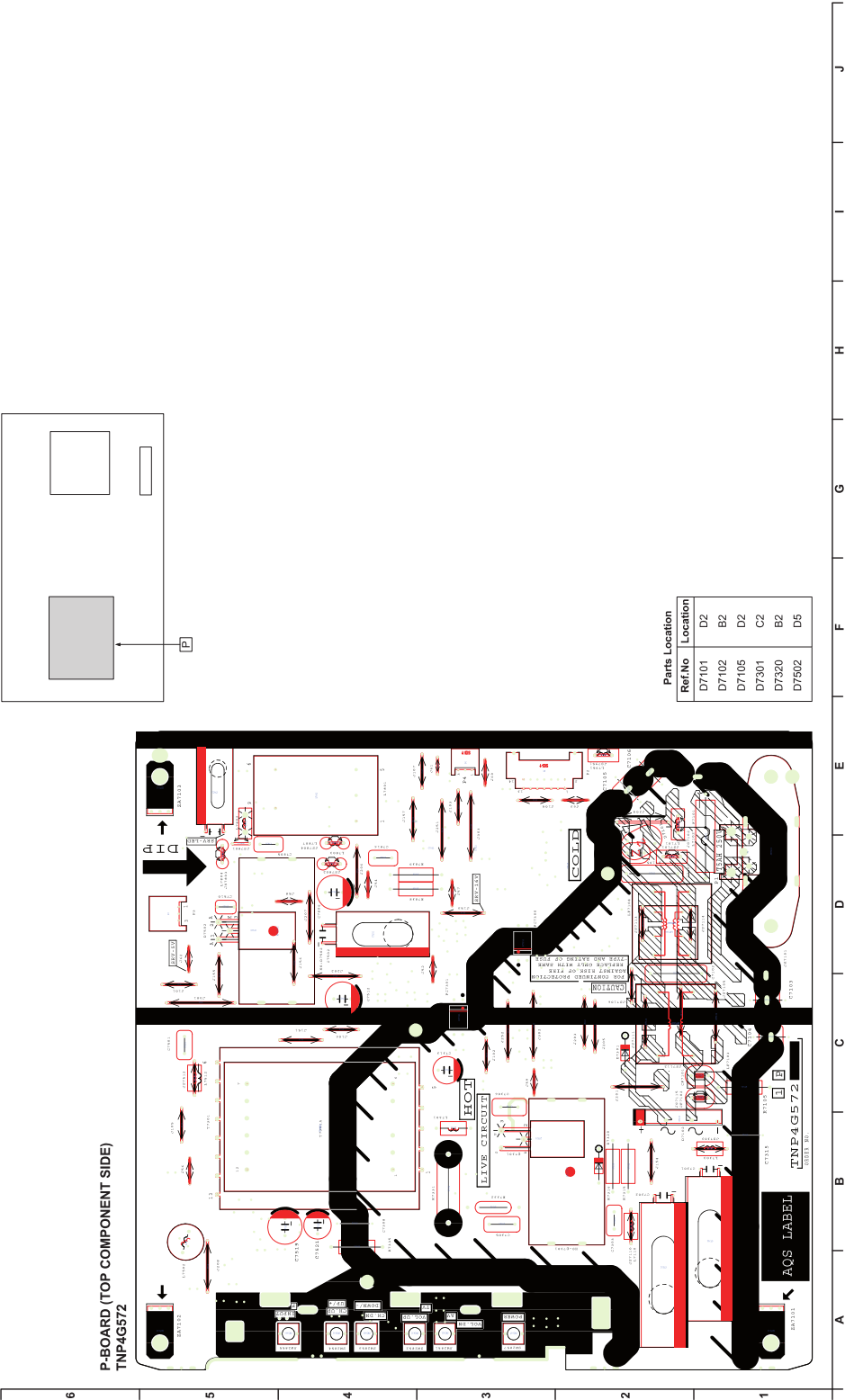
12 Printed Circuit Board

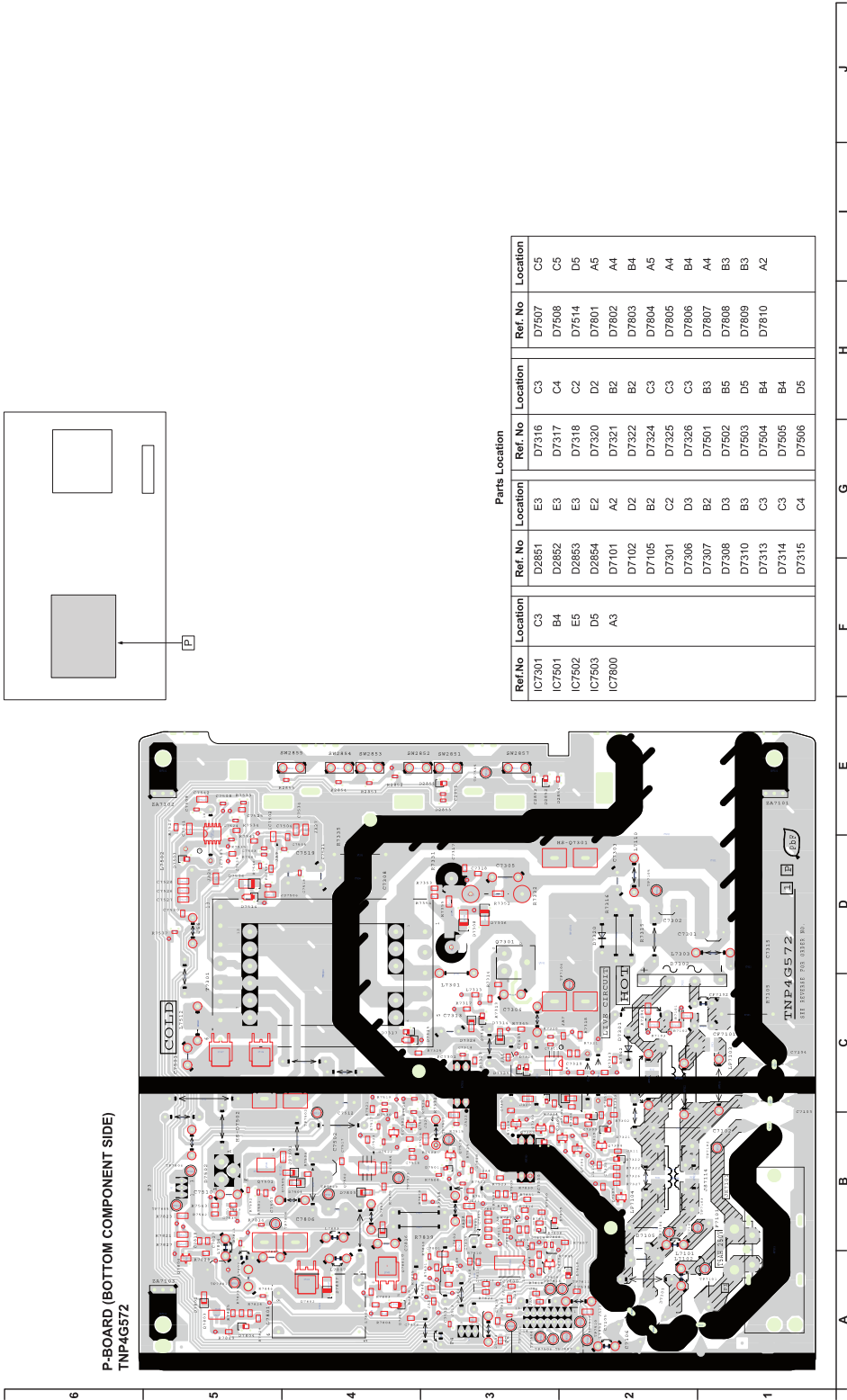
Model No. : TH-32CS510S A-Board (Top Component Side)





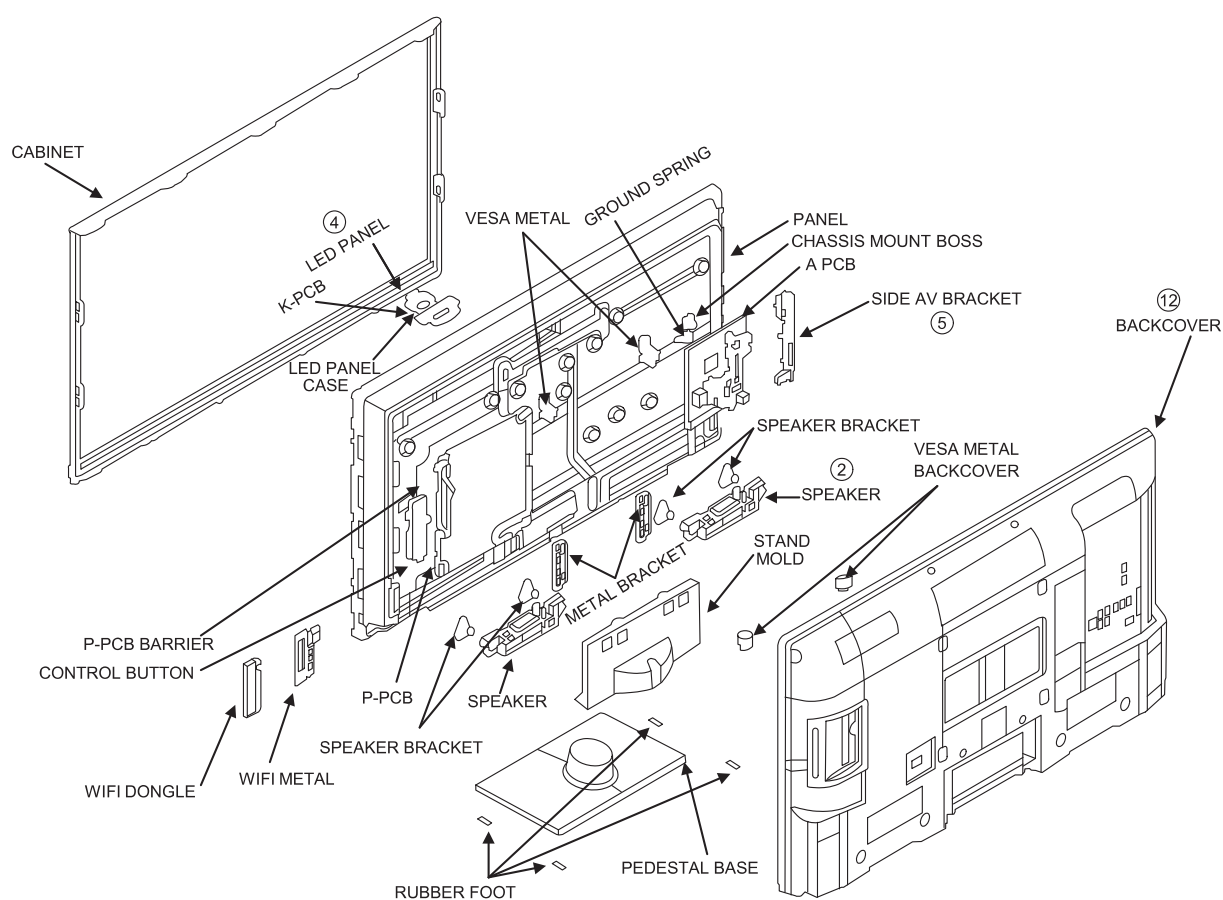
Parts Location			Parts Location			Parts Location		
Ref. No	Location		Ref. No	Location		Ref. No	Location	
IC4900	D2		D2001	E2		D4511	B4	
IC5200	E4		D2004	E1		D4512	B4	
IC5400	C2		D2006	E2		D4521	B5	
IC5420	C1		D2007	E2		D4522	B5	
IC5500	E3		D2009	E1		D4523	B5	
IC5701	A1		D2016	E5		D4524	B5	
IC5702	C1		D2017	E5		D4620	B4	
IC6750	B2		D3006	A3		D4771	B5	
IC6800	C1		D3101	A3		D4765	D3	
IC8100	D4		D3102	B2		D5172	C1	
IC8101	D5		D3103	C3		D5173	C1	
IC8453	A4		D3104	A3		D5176	E3	
IC8454	A3		D3105	B2		D5177	E3	
IC8457	E2		D3106	C3		D5178	D2	
IC8900	B4		D3107	A3		D5179	D1	
IC8901	D2		D3110	A3		D5180	D2	
IC8902	C2		D3111	C2		D5182	D2	
			D3112	D2		D5185	C2	
			D3113	C3		D5186	C2	
			D3114	D3		D5187	D1	
			D3115	A2		D5200	E4	
			D3116	A2		D5201	E4	
			D4508	B4		D8650	D2	





13 Exploded View and Replacement Parts List

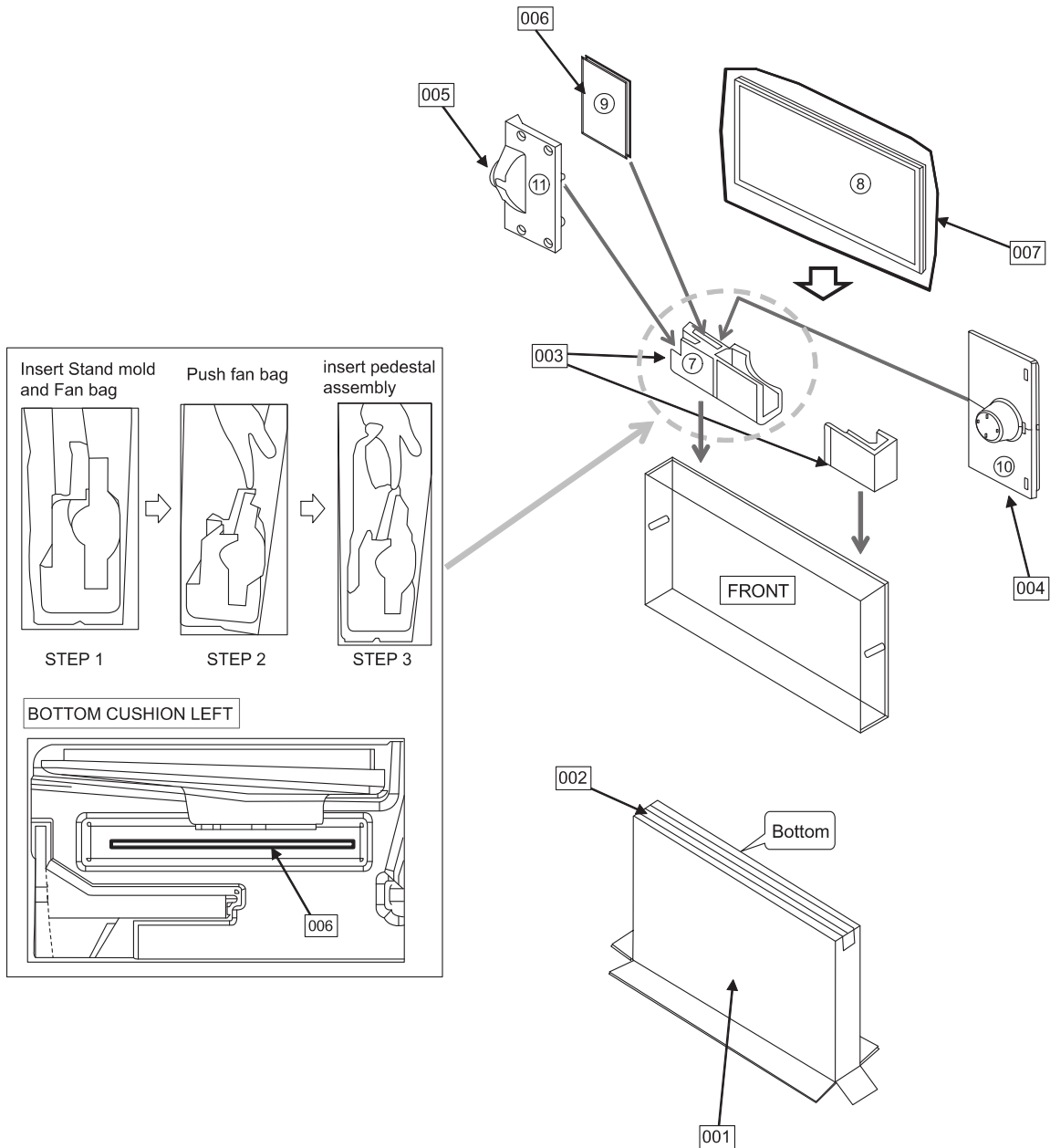
Model No. : TH-32CS510S Parts Location



Model No. : TH-32CS510S Packing Exploded View 1

- 1) Fold packing case at bottom side and tapping with tape.
- 2) Insert bottom cushion at packing case.
- 3) Cover set with set cover and inside to packing case.
- 4) Insert Fan bag assy, Base cover and Stand mould at bottom cushion.

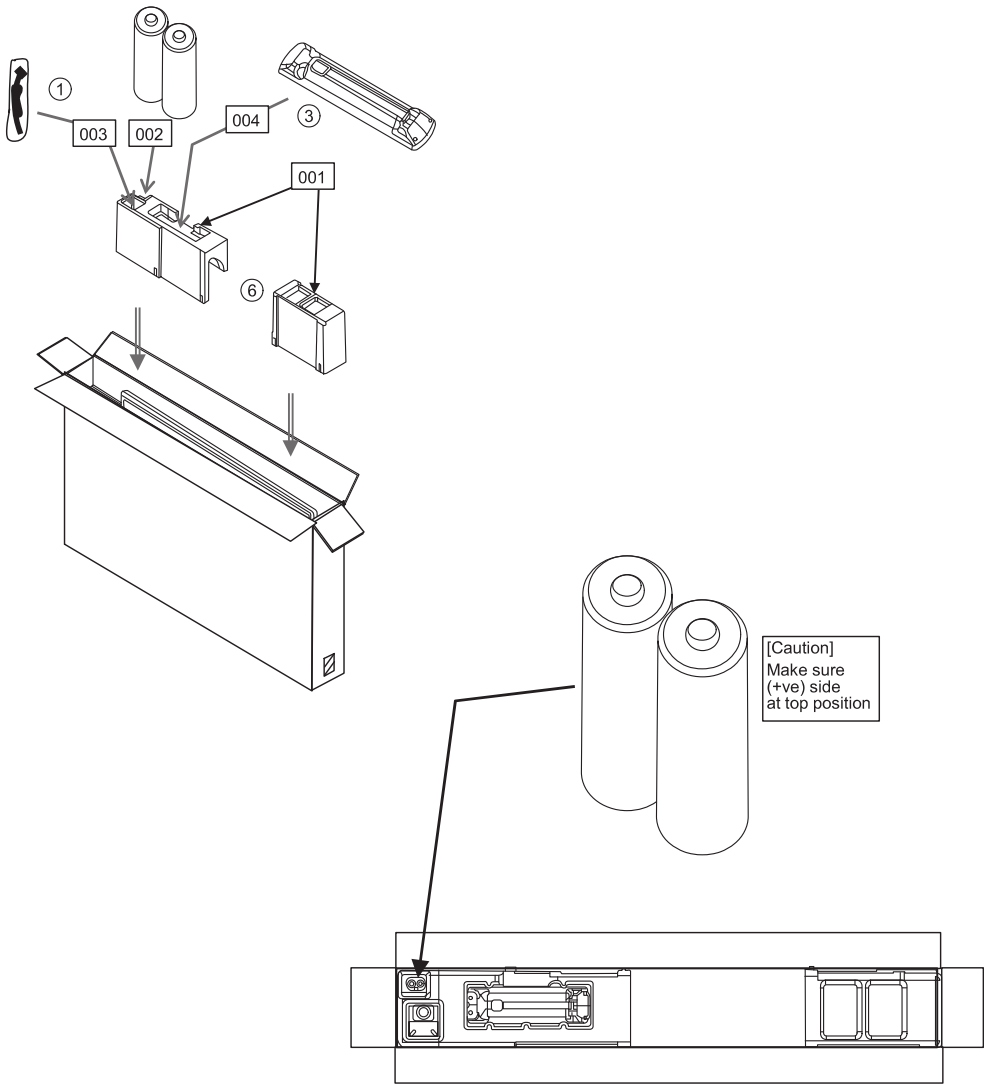
No	Part No	Description	Qty	UOM
001	TPC4GA27323	PACKING CASE	1	PC
002	T5EJ28720	P.P TAPE	2.3	MT
003	TPD4GA05001	BOTTOM CUSHION	1	PC
004	TBL5ZX06921	PEDESTAL ASSY	1	PC
005	TBL5ZX08731	STAND MOLD ASSY	1	PC
006	TQZ4GB959	FAN BAG ASSY	1	PC
007	TPE4GH065	SET COVER	1	PC



Model No. : TH-32CS510S Packing Exploded View 2

- 1) Insert top cushion.
- 2) Insert Remote transmitter, AC Cord and battery at top cushion.

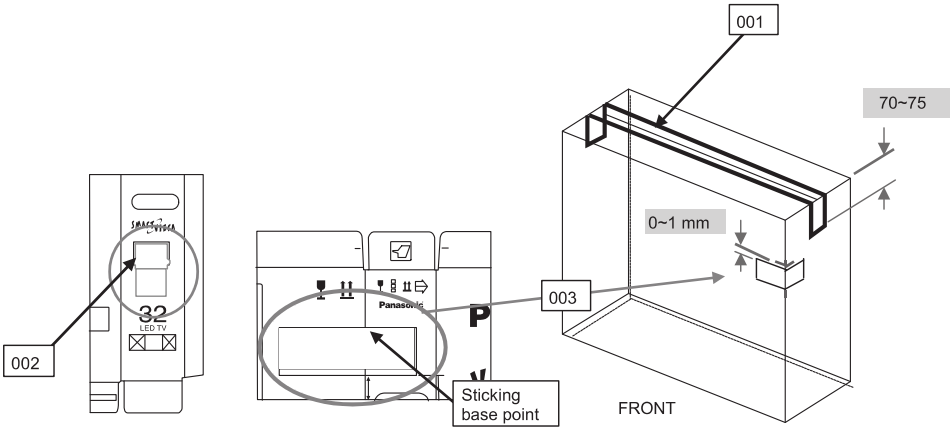
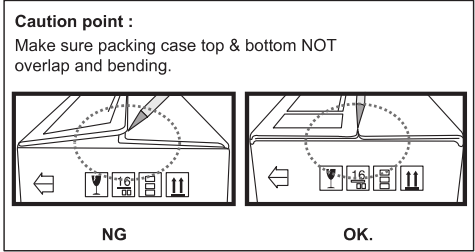
No	Part No	Description	Qty	UOM
001	TPD4GA04991	TOP CUSHION	1	PC
002	R6UWC/2SKD	BATTERY	1	PC
003	K2CQ2YY00122	AC CORD		
004	N2QAYB000934	REMOTE TRANSMITTER	1	PC



Model No. : TH-32CS510S Packing Exploded View 3

- 1) Fold top flap & fix PP tape.
- 2) Stick label combination (barcode label) and packing case label at packing case.

No	Part No	Description	Qty	UOM
001	T5EJ28720	P.P TAPE	2.3	MT
002	TQD4G19062	BARCODE LABEL	1	PC
003	TQF4GK432	PACKING CASE LABEL	1	PC



Model No. : TH-32CS510S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITOR						
		C1958	F1G1E103A172	C 0.01UF 25V		
		C2000	F1G1A105A080	C 1UF, 10V		
		C2001	F1G1H102A946	C 1000PF, 50V		
		C2002	F1G1H102A946	C 1000PF, 50V		
		C2003	F1G1H102A946	C 1000PF, 50V		
		C2004	F1G1H102A946	C 1000PF, 50V		
		C2005	F1G1H102A946	C 1000PF, 50V		
		C2010	F1G1H101A948	C 100PF, 50V		
		C2014	F1K1E106A134	C 10UF, 25V		
		C2023	F1G1C104A146	C 0.1UF, 16V		
		C2801	F1H1H103B047	C 0.01UF, 50V		
		C2802	F1H1H103B047	C 0.01UF, 50V		
		C2803	F1H1H103B047	C 0.01UF, 50V		
		C2804	F1H1C104A178	C 0.1UF, 16V		
		C2806	F1H1H103B047	C 0.01UF, 50V		
		C2807	F1J1A106A043	C 10UF, 10V		
		C2808	F1H1C104A178	C 0.1UF, 16V		
		C2851	F1H1H104B047	C 0.1UF, 50V		
		C2852	F1H1H104B047	C 0.1UF, 50V		
		C3084	F1H0J105A051	C 1.0UF, 6.3V		
		C3085	F1H0J105A051	C 1.0UF, 6.3V		
		C3086	F1H0J105A051	C 1.0UF, 6.3V		
		C3151	F1H1A105A136	C 1UF, 10V		
		C3152	F1H1A105A136	C 1UF, 10V		
		C4000	F1H1H103B047	C 0.01UF, 50V		
		C4001	F1H1H103B047	C 0.01UF, 50V		
		C4002	F1J1C475A225	C 4.7UF, 16V		
		C4701	F1H0J105A051	C 1.0UF, 6.3V		
		C4900	F1K1V106A010	C 10UF, 35V		
		C4901	F1K1V106A010	C 10UF, 35V		
		C4902	F1J1E105A287	C 1UF, 25V		
		C4903	F1K1V106A010	C 10UF, 35V		
		C4904	F1J1E105A287	C 1UF, 25V		
		C4905	F1H1C105A167	C 1UF, 16V		
		C4906	F1K1V106A010	C 10UF, 35V		
		C4907	F1J1E105A287	C 1UF, 25V		
		C4908	F1K1V106A010	C 10UF, 35V		
		C4909	F1J1E105A287	C 1UF, 25V		
		C4919	F1J1E224A272	C 0.22UF, 25V		
		C4920	F1J1E224A272	C 0.22UF, 25V		
		C4921	F1H1E104A161	C 0.1UF, 25V		
		C4922	F1H1E104A161	C 0.1UF, 25V		
		C4923	F1H1E104A161	C 0.1UF, 25V		
		C4924	F1H1E104A161	C 0.1UF, 25V		
		C5000	F1G1A105A080	C 1UF, 10V		
		C5002	F1G1A105A080	C 1UF, 10V		
		C5004	F1G1A105A080	C 1UF, 10V		
		C5006	F1J1E105A287	C 1UF, 25V		
		C5012	F1G1A105A080	C 1UF, 10V		
		C5020	F1G1C104A146	C 0.1UF, 16V		
		C5021	F1G1A105A080	C 1UF, 10V		
		C5022	F1G1C104A146	C 0.1UF, 16V		
		C5026	F1H1E105A153	C 1UF, 25V		
		C5150	F1G1E103A172	C 0.01UF 25V		
		C5151	F1G1E103A172	C 0.01UF 25V		
		C5171	F1G1C103A173	C 0.01UF, 16V		
		C5400	F1K1V106A010	C 10UF, 35V		
		C5401	F1K1V106A010	C 10UF, 35V		
		C5402	F1G1C104A146	C 0.1UF, 16V		
		C5403	F1J0J2260004	C 22UF, 6.3V		
		C5404	F1J0J2260004	C 22UF, 6.3V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5407	F1G1E333A144	C 0.033UF, 25V		
		C5408	F1G1H222A830	C 2200PF, 50V		
		C5420	F1K1V106A010	C 10UF, 35V		
		C5421	F1K1V106A010	C 10UF, 35V		
		C5422	F1G1C104A146	C 0.1UF, 16V		
		C5423	F1J0J2260004	C 22UF, 6.3V		
		C5424	F1J0J2260004	C 22UF, 6.3V		
		C5427	F1G1E333A144	C 0.033UF, 25V		
		C5428	F1G1H222A830	C 2200PF, 50V		
		C5500	F1K1V106A010	C 10UF, 35V		
		C5502	F1G1C104A146	C 0.1UF, 16V		
		C5503	F1G1C223A146	C 0.022UF, 16V		
		C5505	F1G1E332A144	C 3300PF, 25V		
		C5507	F1K1V106A010	C 10UF, 35V		
		C5508	F1K1V106A010	C 10UF, 35V		
		C5509	F1K1V106A010	C 10UF, 35V		
		C5703	F1G1A105A047	C 1UF, 10V		
		C5704	F1G1A105A047	C 1UF, 10V		
		C5717	F1J1A106A043	C 10UF, 10V		
		C5718	F1J1A106A043	C 10UF, 10V		
		C6704	F1J1A106A043	C 10UF, 10V		
		C6707	F1G1C104A146	C 0.1UF, 16V		
		C6708	F1J1A106A043	C 10UF, 10V		
		C6710	F1G1C104A146	C 0.1UF, 16V		
		C6720	F1G1H220A948	C 22PF, 50V		
		C6721	F1G1H220A948	C 22PF, 50V		
		C6722	F1G1C104A146	C 0.1UF, 16V		
		C6723	F1G1H220A948	C 22PF, 50V		
		C6724	F1G1H220A948	C 22PF, 50V		
		C6726	F1G1H220A948	C 22PF, 50V		
		C6727	F1G1H220A948	C 22PF, 50V		
		C6728	F1G1H102A834	C 1000PF, 50V		
		C6736	F1G1H101A948	C 100PF, 50V		
		C6737	F1G1H101A948	C 100PF, 50V		
		C6746	F1G1C104A146	C 0.1UF, 16V		
		C6750	F1G1H331A830	C 330PF, 50V		
		C6751	F1G1H121A834	C 120PF, 50V		
		C6752	F1G1H121A834	C 120PF, 50V		
		C6753	F1G1H5R0A831	C 5PF, 50V		
		C6754	F1G1H5R0A831	C 5PF, 50V		
		C6758	F1G1H181A834	C 180PF, 50V		
		C6759	F1G1H181A834	C 180PF, 50V		
		C6760	F1G1H102A834	C 1000PF, 50V		
		C6762	F1G1H102A834	C 1000PF, 50V		
		C6763	F1G1C104A146	C 0.1UF, 16V		
		C6764	F1G1C104A146	C 0.1UF, 16V		
		C6766	F1G1H102A946	C 1000PF, 50V		
		C6767	F1G1H102A946	C 1000PF, 50V		
		C6768	F1G1H102A946	C 1000PF, 50V		
		C6769	F1G1E103A172	C 0.01UF 25V		
		C6770	F1G1E103A172	C 0.01UF 25V		
		C6771	F1G1E103A172	C 0.01UF 25V		
		C6772	F1G1E103A172	C 0.01UF 25V		
		C6773	F1G1H102A946	C 1000PF, 50V		
		C6774	F1G1C104A146	C 0.1UF, 16V		
		C6775	F1G1C104A146	C 0.1UF, 16V		
		C6777	F1G0J105A049	C 1UF, 6.3V		
		C6778	F1G1C104A146	C 0.1UF, 16V		
		C6788	F1G1H101A948	C 100PF, 50V		
		C6799	F1H1H181B052	C 180PF, 50V		
		C6804	F1G1C104A146	C 0.1UF, 16V		
		C6805	F1J1A106A043	C 10UF, 10V		

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		C6806	F1J1A106A043	C 10UF, 10V		
		C6809	F1G1C104A146	C 0.1UF, 16V		
		C6813	F1G1C104A146	C 0.1UF, 16V		
		C6820	F1G1C104A146	C 0.1UF, 16V		
		C6822	F1G1C104A146	C 0.1UF, 16V		
		C6832	F1J1A106A043	C 10UF, 10V		
		C6838	F1G1C104A146	C 0.1UF, 16V		
		C6840	F1G1C104A146	C 0.1UF, 16V		
		C6847	F1G1H100A963	C 10PF, 50V		
		C6848	F1G1H8R0A833	C 8PF, 50V		
		C6872	F1G1C104A146	C 0.1UF, 16V		
		C6873	F1G1C104A146	C 0.1UF, 16V		
		C7101	F0CAF1040016	C 0.1UF, 240V		
		C7102	F0CAF1040016	C 0.1UF, 240V		
		C7103	F1AAF471A019	C 470PF, 240V		
		C7104	F1AAF471A019	C 470PF, 240V		
		C7105	F1AAF101A019	C 100PF, 240V		
		C7106	F1AAF101A019	C 100PF, 240V		
		C7301	F2A2W650A304	C 65UF, 450V		
		C7302	F2A2W650A304	C 65UF, 450V		
		C7306	F1B3D221A099	C 220PF, 2000V		
		C7310	F1J1H104A902	C 0.1UF, 50V		
		C7311	F1H1H102B052	C 1000PF, 50V		
		C7312	F1J1H105A919	C 1UF, 50V		
		C7313	F2A1V470B660	C 47UF, 50V		
		C7314	F1H1H102B052	C 1000PF, 50V		
		C7315	F1AAF102A020	C 1000PF, 240V		
		C7317	F1J2E1030004	C 0.01UF, 250V		
		C7318	F1J2E1030004	C 0.01UF, 250V		
		C7319	F1J1H103A900	C 0.01UF, 50V		
		C7501	F1A3A471A060	C 470PF, 1KV		
		C7502	F2A1J471A657	C 470UF, 6.3V		
		C7503	F1H1H223B047	C 0.022UF, 50V		
		C7504	F1J1E225A178	C 2.2UF, 25V		
		C7505	F1H1H105B027	C 1.0UF, 50V		
		C7510	F1B2H471A058	C 470PF, 500V		
		C7512	F2A1E4710124	C 470UF, 25V		
		C7520	F1H1A475A102	C 4.7UF, 10V		
		C7523	F1J1H104A902	C 0.1UF, 50V		
		C7531	F1J1H104A902	C 0.1UF, 50V		
		C7532	F1H1H104B047	C 0.1UF, 50V		
		C7800	F1J1H102A909	C 1000PF, 50V		
		C7801	F1K1E106A134	C 10UF, 25V		
		C7802	F1K1E106A134	C 10UF, 25V		
		C7803	F1J1H104A902	C 0.1UF, 50V		
		C7804	F1J1H104A902	C 0.1UF, 50V		
		C7805	F1A3A471A060	C 470PF, 1KV		
		C7807	F1J1H103A900	C 0.01UF, 50V		
		C7808	F1J1H222A911	C 2200PF, 50V		
		C7809	F1J1H103A900	C 0.01UF, 50V		
		C7810	F1J1H105A919	C 1UF, 50V		
		C7811	F1J1H102A909	C 1000PF, 50V		
		C7812	F1J1H471A906	C 470PF, 50V		
		C7816	F1A3A221A060	C 220PF, 1KV		
		C7819	F1J1H104A902	C 0.1UF, 50V		
		C7820	F1J1H473A900	C 0.047UF, 50V		
		C7821	F2A2C470A240	C 47UF, 160V		
		C7822	F1J1H152A721	C 1500PF, 50V		
		C8001	F1G1C104A146	C 0.1UF, 16V		
		C8002	F1J1A106A043	C 10UF, 10V		
		C8006	F1G1C104A146	C 0.1UF, 16V		
		C8010	F1G1C104A146	C 0.1UF, 16V		

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		C8012	F1G1C104A146	C 0.1UF, 16V		
		C8013	F1G1C104A146	C 0.1UF, 16V		
		C8014	F1G1A105A047	C 1UF, 10V		
		C8016	F1G1C104A146	C 0.1UF, 16V		
		C8018	F1G1A105A047	C 1UF, 10V		
		C8027	F1G1C104A146	C 0.1UF, 16V		
		C8028	F1G1C104A146	C 0.1UF, 16V		
		C8031	F1J1A106A043	C 10UF, 10V		
		C8032	F1G1C104A146	C 0.1UF, 16V		
		C8034	F1J1A106A043	C 10UF, 10V		
		C8037	F1J1A106A043	C 10UF, 10V		
		C8039	F1G1C104A146	C 0.1UF, 16V		
		C8042	F1G1C104A146	C 0.1UF, 16V		
		C8044	F1G1C104A146	C 0.1UF, 16V		
		C8045	F1G1A105A047	C 1UF, 10V		
		C8052	F1J0G2260001	C 22UF, 4V		
		C8054	F1G1C104A146	C 0.1UF, 16V		
		C8055	F1G1A105A047	C 1UF, 10V		
		C8057	F1G1C104A146	C 0.1UF, 16V		
		C8059	F1G1C104A146	C 0.1UF, 16V		
		C8068	F1G1C104A146	C 0.1UF, 16V		
		C8071	F1G1C104A146	C 0.1UF, 16V		
		C8072	F1G1C104A146	C 0.1UF, 16V		
		C8073	F1G1A105A047	C 1UF, 10V		
		C8074	F1G1A105A047	C 1UF, 10V		
		C8076	F1H1A105A136	C 1UF, 10V		
		C8100	F1G1E472A172	C 4700PF, 25V		
		C8101	F1H1E105A153	C 1UF, 25V		
		C8102	F1G1C104A146	C 0.1UF, 16V		
		C8103	F1K1V106A010	C 10UF, 35V		
		C8105	F1J0G2260001	C 22UF, 4V		
		C8108	F1G1H471A830	C 470PF, 50V		
		C8109	F1K1V106A010	C 10UF, 35V		
		C8111	F1G1C104A146	C 0.1UF, 16V		
		C8112	F1G1C473A146	C 0.047UF, 16V		
		C8114	F1G1E332A144	C 3300PF, 25V		
		C8116	F1J0G2260001	C 22UF, 4V		
		C8117	F1J0G2260001	C 22UF, 4V		
		C8203	F1G1C104A146	C 0.1UF, 16V		
		C8204	F1G1C104A146	C 0.1UF, 16V		
		C8205	F1G1C104A146	C 0.1UF, 16V		
		C8206	F1G1C104A146	C 0.1UF, 16V		
		C8207	F1J1A106A043	C 10UF, 10V		
		C8208	F1G1C104A146	C 0.1UF, 16V		
		C8210	F1G1C104A146	C 0.1UF, 16V		
		C8212	F1G1C104A146	C 0.1UF, 16V		
		C8214	F1G1C104A146	C 0.1UF, 16V		
		C8216	F1J1A106A043	C 10UF, 10V		
		C8218	F1G1C104A146	C 0.1UF, 16V		
		C8220	F1G1C104A146	C 0.1UF, 16V		
		C8221	F1G1C104A146	C 0.1UF, 16V		
		C8224	F1G1C104A146	C 0.1UF, 16V		
		C8229	F1G1A105A047	C 1UF, 10V		
		C8230	F1G1C104A146	C 0.1UF, 16V		
		C8231	F1G1C104A146	C 0.1UF, 16V		
		C8232	F1G1C104A146	C 0.1UF, 16V		
		C8300	F1G1H100A948	C 10PF, 50V		
		C8301	F1G1H120A948	C 12PF, 50V		
		C8307	F1G1A105A047	C 1UF, 10V		
		C8308	F1G1A105A047	C 1UF, 10V		
		C8312	F1G1A105A047	C 1UF, 10V		
		C8313	F1G1A105A047	C 1UF, 10V		

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		C8314	F1G1A105A047	C 1UF, 10V		
		C8315	F1G1A105A047	C 1UF, 10V		
		C8452	F1J1A106A043	C 10UF, 10V		
		C8453	F1G1C104A146	C 0.1UF, 16V		
		C8455	F1J0J2260004	C 22UF, 6.3V		
		C8457	F1G1C104A146	C 0.1UF, 16V		
		C8461	F1J1A106A043	C 10UF, 10V		
		C8463	F1G1C104A146	C 0.1UF, 16V		
		C8467	F1J1A106A043	C 10UF, 10V		
		C8470	F1G1C104A146	C 0.1UF, 16V		
		C8474	F1J1A106A043	C 10UF, 10V		
		C8475	F1G1C104A146	C 0.1UF, 16V		
		C8476	F1J1A106A043	C 10UF, 10V		
		C8478	F1G1C104A146	C 0.1UF, 16V		
		C8601	F1G1C103A173	C 0.01UF, 16V		
		C8602	F1G1C103A173	C 0.01UF, 16V		
		C8700	F1H1A105A136	C 1UF, 10V		
		C8850	F1G1E103A172	C 0.01UF 25V		
		C8900	F1G1C104A146	C 0.1UF, 16V		
		C8901	F1G1C104A146	C 0.1UF, 16V		
		C8903	F1G1A105A080	C 1UF, 10V		
		C8905	F1G1C104A146	C 0.1UF, 16V		
DIODE						
		D2001	DZ2J047M0L	DIODE		
		D2004	DZ2J047M0L	DIODE		
		D2006	DZ2J047M0L	DIODE		
		D2007	DZ2J047M0L	DIODE		
		D2008	DZ2J056M0L	DIODE		
		D2009	DZ2J047M0L	DIODE		
		D2800	DZ2J056M0L	DIODE		
		D2802	B3AGB0000083	LED		
		D2853	EZJZ1V800AA	MULTILAYER CHIP VARISTOR		
		D2854	EZJZ1V800AA	MULTILAYER CHIP VARISTOR		
		D3006	K7AAAY000016	DIODE		
		D3101	DZ2J140M0L	DIODE		
		D3102	DZ2J140M0L	DIODE		
		D3103	DZ2J140M0L	DIODE		
		D3104	DZ2J140M0L	DIODE		
		D3105	DZ2J140M0L	DIODE		
		D3106	DZ2J140M0L	DIODE		
		D4704	B0JCED000012	DIODE		
		D4785	B0JCED000012	DIODE		
		D5172	DZ2J220M0L	DIODE		
		D5173	DA2J10100L	DIODE		
		D5178	DZ2J068M0L	DIODE		
		D5179	B0ADCK000001	DIODE		
		D5180	DZ2J033M0L	DIODE		
		D5187	DZ2J047M0L	DIODE		
		D5191	B0ADCK000001	DIODE		
		D5192	B0ADCK000001	DIODE		
		D6750	J0ZZB0000175	DIODE		
		D6752	B0ZBZ0000226	DIODE		
		D7101	D4EAY621A168	DIODE		
		D7102	B0EBNT000030	DIODE		
		D7301	B0HAGQ000001	DIODE		
		D7306	B0ECKT000012	DIODE		
		D7307	DZ2J068M0L	DIODE		
		D7308	B0ECKT000012	DIODE		
		D7313	DB2J41100L	DIODE		
		D7314	B0BC018A0495	ZENER DIODE		
		D7316	B0ACCD000008	DIODE		
		D7317	DA2JF2300L	DIODE		

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		D7320	B0JAME000126	DIODE		
		D7324	DZ2J150M0L	DIODE		
		D7325	B0ACCD000008	DIODE		
		D7501	B0ACCD000008	DIODE		
		D7502	B0JBSM000009	DIODE		
		D7507	B0FCAM000004	DIODE		
		D7508	B0FCAM000004	DIODE		
		D7801	B0BC036A0495	DIODE		
		D7802	B0FCAM000004	DIODE		
		D7803	B0BC027A0336	DIODE		
		D7805	B0ECKM000053	DIODE		
		D7806	B0BC015A0336	DIODE		
		D8000	DA2J10100L	DIODE		
		D8850	B0JCED000012	DIODE		
INTEGRATED CIRCUIT						
		IC4900	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5400	C0DBAYY01299	IC		
		IC5420	C0DBAYY01299	IC		
		IC5500	C0DBAYY02430	IC		
		IC5701	C0DBEYY00226	IC		
		IC5704	C0DBEYY00102	IC		
		IC6750	C1AB00004172	IC		
		IC6800	C1AB00004028	IC		
		IC7301	C0DBBY000065	IC		
		IC7501	C0DBZYY00531	IC		
		IC7502	C0DBEYY00146	IC		
		IC7800	C0ZBZ0002197	IC		
		IC8000	MN2WS0275PK	IC		
		IC8001	C0DBGYY00887	FE2		
		IC8100	C0DBAYY02431	IC		
		IC8101	C0DBAYY02430	IC		
		IC8200	C3ABVY000018	IC		
		IC8201	C3ABUY000028	IC		
		IC8453	C0DBZYY00723	IC		
		IC8454	C0DBZYY00723	IC		
		IC8457	C0DBZYY00723	IC		
		IC8900	TVR4G289-AQ	ROM VERSION ASSY		
		IC8901	C3EBGY000056	IC		
COIL						
		L2300	J0JYC0000464	BEAD CORE		
		L3113	J0JYC0000156	INDUCTOR		
		L3116	J0JYC0000156	INDUCTOR		
		L4901	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		
		L5400	G1C4R7ZA0311	INDUCTOR		
		L5420	G1C6R8MA0533	INDUCTOR		
		L5500	G1C220MA0445	INDUCTOR		
		L6704	J0JYC0000464	CHIP BEADS		
		L6706	J0JYC0000464	CHIP BEADS		
		L6761	J0JYC0000464	BEAD CORE		
		L6762	J0JYC0000464	BEAD CORE		
		L6763	G1CR27JA0097	COIL		
		L6765	G1C82NJ00010	COIL		
		L6772	G1CR27JA0097	COIL		
		L6773	G1CR27JA0097	COIL		
		L6774	G1CR27JA0097	COIL		
		L6775	G1CR22JA0097	CHIP BEADS		
		L6776	G1CR27JA0097	COIL		
		L6777	G1CR22JA0097	CHIP BEADS		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L6778	G1CR22JA0097	CHIP BEADS		
		L6779	G1CR22JA0097	CHIP BEADS		
		L6800	J0JYC0000464	BEAD CORE		
		L6801	J0JYC0000464	BEAD CORE		
		L6802	J0JYC0000464	BEAD CORE		
		L7101	J0JYB0000044	COIL		
		L7102	J0JYB0000044	COIL		
		L7301	J0JYA0000035	BEAD CORE		
		L7313	J0JHC0000048	BEAD CORE		
		L7512	J0JYA0000035	BEAD CORE		
		L7801	G0C480Z00002	COIL		
		L7802	EXCELD35C	BEAD CORE		
		L7803	J0JYB0000044	COIL		
		L7804	J0JYB0000044	COIL		
		L7806	J0JHC0000048	BEAD CORE		
		L7807	J0JYB0000044	COIL		
		L7951	J0JYB0000044	COIL		
		L8001	J0JCC0000287	CHIP BEADS		
		L8009	J0JYC0000464	CHIP BEADS		
		L8013	J0JYC0000464	CHIP BEADS		
		L8014	J0JCC0000287	CHIP BEADS		
		L8100	G1C2R2ZA0311	INDUCTOR		
		L8101	G1C3R3MA0464	INDUCTOR		
		L8460	J0JYC0000464	BEAD CORE		
		L8461	J0JYC0000464	BEAD CORE		
TRANSISTOR						
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q2014	B1ABCF000231	TRANSISTOR		
		Q4702	B1ABCF000231	TRANSISTOR		
		Q4709	B1ABCF000231	TRANSISTOR		
		Q4981	B1ABCE000015	TRANSISTOR		
		Q7301	B1CERR000067	TRANSISTOR		
		Q7302	B1ABCF000231	TRANSISTOR		
		Q7501	B1CFRG000069	TRANSISTOR		
		Q7502	B1CHRE000035	TRANSISTOR		
		Q7510	B1ABCF000231	TRANSISTOR		
		Q7801	B1CFRM000028	TRANSISTOR		
		Q7803	B1CFML000007	TRANSISTOR		
		Q7804	B1ABCN000007	TRANSISTOR		
		Q7808	B1ABCF000231	TRANSISTOR		
		Q7809	B1ADCE000022	TRANSISTOR		
RESISTORS						
		R0904	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R0905	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0906	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0907	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0908	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0909	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0910	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R0911	D0GA272JA023	M 2.7K Ohm, J, 1/16W		
		R0912	D0GA272JA023	M 2.7K Ohm, J, 1/16W		
		R0913	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R0932	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R0933	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R0936	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R0937	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R0938	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0939	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0940	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0945	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0946	D0GA101JA039	M 100 Ohm, J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R0947	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0948	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0950	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0951	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R0954	D0GA272JA023	M 2.7K Ohm, J, 1/16W		
		R0955	D0GA272JA023	M 2.7K Ohm, J, 1/16W		
		R0956	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R0957	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R0961	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R0962	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R1951	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R1953	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R2000	D0GA823JA023	M 82K Ohm, J, 1/16W		
		R2003	D0GAR00J0005	M 0 Ohm, 1/16W		
		R2008	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R2013	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R2014	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R2016	D0GA122JA023	M 1.2K Ohm, J, 1/16W		
		R2017	D0GAR00J0005	M 0 Ohm, 1/16W		
		R2018	D0GAR00J0005	M 0 Ohm, 1/16W		
		R2056	D0GAR00J0005	M 0 Ohm, 1/16W		
		R2058	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R2059	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R2060	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R2061	D0GA223JA023	M 22K Ohm, J, 1/16W		
		R2062	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R2065	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R2066	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R2067	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R2800	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R2807	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R2820	D0GB470JA065	M 47 Ohm, J, 1/10W		
		R2821	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R2823	D1BB4301A073	M 4.3K Ohm, J, 1/10W		
		R2824	D1BB1001A073	M 1K Ohm, J, 1/10W		
		R2852	D1BB1911A073	M 1.91K Ohm, F, 1/16W		
		R2853	D1BB3091A073	M 3.09K Ohm, F, 1/16W		
		R2854	D1BB6041A073	M 6.04K Ohm, F, 1/16W		
		R2855	D1BB1692A073	M 16.9K Ohm, F, 1/16W		
		R3117	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R3118	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R3157	D1HY2204A012	NETWORK RESISTOR		
		R3167	D0GA333JA023	M 33K Ohm, J, 1/16W		
		R3168	D0GA333JA023	M 33K Ohm, J, 1/16W		
		R3173	D1BB1003A143	M 100K Ohm, J, 1/10W		
		R3181	D1BD75R0A204	M 75 Ohm, J, 1/16W		
		R3182	D1BD75R0A204	M 75 Ohm, J, 1/16W		
		R3183	D1BD75R0A204	M 75 Ohm, J, 1/16W		
		R3188	D1BB1003A143	M 100K Ohm, J, 1/10W		
		R3201	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R4079	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4084	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4088	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4715	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4721	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4722	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4723	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4724	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R4725	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4731	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4739	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R4748	D0GA680JA023	M 68 Ohm, J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4749	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4750	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4751	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4752	D1BA1600A023	M 160 Ohm, F, 1/16W		
		R4753	D1BA82R0A023	M 82 Ohm, F, 1/16W		
		R4764	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4766	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4788	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4794	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4795	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4796	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4797	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R4798	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4799	D0GA273JA023	M 27K Ohm, J, 1/16W		
		R4800	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4801	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4802	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R4900	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		R4906	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4907	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R4908	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R4917	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4918	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4919	D0GAR00J0005	M 0 Ohm, 1/16W		
		R4955	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4956	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R4958	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4981	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R4982	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R4984	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4985	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4986	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R4987	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R5002	D0GA683JA023	M 68K Ohm, J, 1/16W		
		R5003	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5006	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5007	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5009	D1BA5602A023	M 56K Ohm, F, 1/16W		
		R5012	D1BA2202A023	M 22K Ohm, F, 1/16W		
		R5030	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5031	D0GAR00J0005	M 0 Ohm, 1/16W		
		R5032	D0GAR00J0005	M 0 Ohm, 1/16W		
		R5100	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R5101	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R5102	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R5104	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5152	D0GA222JA023	M 2.2K Ohm, J, 1/16W		
		R5175	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R5181	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R5200	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R5401	D1BA2202A023	M 22K Ohm, F, 1/16W		
		R5402	D1BB9100A143	M 910 Ohm, J, 1/10W		
		R5403	D1BB2871A143	M 2.87K Ohm, J, 1/10W		
		R5421	D1BA3302A023	M 33K Ohm, F, 1/16W		
		R5422	D1BB9100A143	M 910 Ohm, J, 1/10W		
		R5423	D1BB4871A143	M 4.87K Ohm, J, 1/10W		
		R5500	D1BA4702A023	M 47K Ohm, F, 1/16W		
		R5501	D1BA3601A023	M 3.6K Ohm, F, 1/16W		
		R5502	D1BA5102A023	M 51K Ohm, F, 1/16W		
		R5507	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R5709	D1BA1201A023	M 1.2K Ohm, F, 1/16W		
		R5712	D0GA103JA039	M 10K Ohm, J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R5731	D1BA1200A023	M 120 Ohm, F, 1/16W		
		R5732	D1BA56R0A023	M 56 Ohm, F, 1/16W		
		R5742	D1BA3001A023	M 3K Ohm, F, 1/16W		
		R5743	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R5745	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R5747	D0GAR00J0005	M 0 Ohm, 1/16W		
		R6728	D0GAR00J0005	M 0 Ohm, 1/16W		
		R6729	D0GAR00J0005	M 0 Ohm, 1/16W		
		R6734	D1BA1002A023	M 10K Ohm, F, 1/16W		
		R6750	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6751	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R6753	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6754	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R6755	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6756	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6757	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6758	D0GA101JA039	M 100 Ohm, J, 1/16W		
		R6759	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R6760	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R6761	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R6804	D0GAR00J0005	M 0 Ohm, 1/16W		
		R6805	D0GAR00J0005	M 0 Ohm, 1/16W		
		R6810	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R6812	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6813	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6818	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6840	D0GA471JA023	M 470 Ohm, J, 1/16W		
		R6846	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6847	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6848	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6849	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6850	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6861	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6862	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6863	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R6880	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R6881	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R6884	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R7101	D0GF105JA048	M 1M Ohm, J, 1/4W		
		R7102	D0GF105JA048	M 1M Ohm, J, 1/4W		
		R7103	D0GF105JA048	M 1M Ohm, J, 1/4W		
		R7104	D0GF105JA048	M 1M Ohm, J, 1/4W		
		R7303	D0GD752JA052	M 7.5K Ohm, J, 1/8W		
		R7304	D0GD183JA052	M 18K Ohm, J, 1/8W		
		R7313	D0GD220JA052	M 22 Ohm, J, 1/8W		
		R7314	D0GD681JA059	M 680 Ohm, J, 1/4W		
		R7315	D0C1R47JA104	M 0.47 Ohm, J, 1W		
		R7316	D0C1R56JA104	M 0.56 Ohm, J, 1W		
		R7317	D0GD680JA059	M 68 Ohm, J, 1/4W		
		R7318	D0GD471JA052	M 470 Ohm, J, 1/8W		
		R7319	D0GD393JA052	M 39K Ohm, J, 1/8W		
		R7320	D0GB562JA065	M 5.6K Ohm, J, 1/10W		
		R7325	D0GD4R7JA059	M 4.7 Ohm, J, 1/4W		
		R7329	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		R7335	D0B1106JA033	M 10M Ohm, J, 1W		
		R7342	D0GD182JA052	M 1.8K Ohm, J, 1/8W		
		R7343	D0GD182JA052	M 1.8K Ohm, J, 1/8W		
		R7344	D0GD182JA052	M 1.8K Ohm, J, 1/8W		
		R7345	D0GD221JA059	M 220 Ohm, J, 1/8W		
		R7351	D0GF474JA048	M 470K Ohm, J, 1/4W		
		R7353	D0GD220JA059	M 22 Ohm, J, 1/8W		
		R7354	D0GD220JA059	M 22 Ohm, J, 1/8W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7501	D0GB153JA065	M 15K Ohm, J, 1/10W		
		R7502	D0GB273JA072	M 27K Ohm, J, 1/10W		
		R7503	D0GB153JA065	M 15K Ohm, J, 1/10W		
		R7504	D0GB153JA065	M 15K Ohm, J, 1/10W		
		R7505	D0GD101JA052	M 100 Ohm, J, 1/8W		
		R7507	D0GB124JA065	M 120K Ohm, J, 1/10W		
		R7511	D0GD103JA052	M 10K Ohm, J, 1/8W		
		R7512	D0GB472JA065	M 4.7K Ohm, J, 1/10W		
		R7515	D0GB222JA065	M 2.2K Ohm, J, 1/10W		
		R7516	D0GD472JA052	M 4.7K Ohm, J, 1/8W		
		R7517	D0GB222JA065	M 2.2K Ohm, J, 1/10W		
		R7519	D1BB5601A073	M 5.6K Ohm, J, 1/10W		
		R7520	D1BB3301A073	M 3.3K Ohm, J, 1/10W		
		R7521	D0GD123JA052	M 12K Ohm, J, 1/8W		
		R7523	D0GD473JA052	M 47K Ohm, J, 1/8W		
		R7524	D0GB473JA065	M 47K Ohm, J, 1/10W		
		R7532	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R7537	D0GBR00J0004	M 0 Ohm, J, 1/10W		
		R7540	D0GB184ZA041	M 180K Ohm, F, 1/16W		
		R7541	D1BD1603A177	M 160K Ohm, F, 1/16 W		
		R7800	D0GD101JA052	M 100 Ohm, J, 1/8W		
		R7801	D0GD222JA052	M 2.2K Ohm, J, 1/8W		
		R7802	D0GD223JA052	M 22K Ohm, J, 1/8W		
		R7803	D0GD100JA059	M 10 Ohm, J, 1/4W		
		R7804	D0GD470JA059	M 47 Ohm, J, 1/8W		
		R7806	D0GD102JA052	M 1K Ohm, J, 1/8W		
		R7807	D0GD103JA052	M 10K Ohm, J, 1/8W		
		R7808	D0GB473JA065	M 47K Ohm, J, 1/10W		
		R7809	D0GD182JA052	M 1.8K Ohm, J, 1/8W		
		R7810	D1BB2492A074	M 24.9K Ohm , F, 1/8W		
		R7812	D0GD683JA052	M 68K Ohm, J, 1/8W		
		R7813	D0GB154JA065	M 150K Ohm, J, 1/10W		
		R7814	D0GB114JA065	M 110K Ohm, J, 1/10W		
		R7815	D0GB822JA065	M 8.2K Ohm, J, 1/10W		
		R7818	D0GD223JA052	M 22K Ohm, J, 1/8W		
		R7819	D0GD473JA052	M 47K Ohm, J, 1/8W		
		R7820	D0GD471JA052	M 470 Ohm, J, 1/8W		
		R7821	D0GF472JA048	M 4.7K Ohm, J, 1/4W		
		R7822	D0GD122JA052	M 1.2K Ohm, J, 1/8W		
		R7823	D0GF472JA048	M 4.7K Ohm, J, 1/4W		
		R7824	D1BD5R10A066	M 5.1 Ohm , F, 1/8W		
		R7825	D1BD5R10A066	M 5.1 Ohm , F, 1/8W		
		R7826	D1BD5R10A066	M 5.1 Ohm , F, 1/8W		
		R7827	D0GF472JA048	M 4.7K Ohm, J, 1/4W		
		R7828	D0GD104JA052	M 100K Ohm, J, 1/8W		
		R7830	D0GD104JA052	M 100K Ohm, J, 1/8W		
		R7831	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		R7834	D0GB1R0JA065	M 1 Ohm, J, 1/16W		
		R7838	D0C1R15JA104	M 0.15 Ohm, J, 1/16W		
		R7839	D0C1R22JA104	M 0.22 Ohm, J, 1/16W		
		R7840	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		R7841	D0GD102JA059	M 1K Ohm, J, 1/4W		
		R7845	D0GB113JA065	M 11K Ohm, J, 1/10W		
		R7846	D0GB333JA065	M 33K Ohm, J, 1/10W		
		R8005	D0GA1R1JA023	M 1.1 Ohm, J, 1/16W		
		R8010	D0GA511JA023	M 510 Ohm, J, 1/16W		
		R8011	D0GA104JA039	M 100K Ohm, J, 1/16W		
		R8102	D1BA4701A023	M 4.7K Ohm, F, 1/16W		
		R8103	D1BA2002A023	M 20K Ohm, F, 1/16W		
		R8104	D1BA1802A014	M 18K Ohm, F, 1/16W		
		R8200	D1BA2400A023	M 240 Ohm, F, 1/16W		
		R8203	D1BA2700A023	M 270 Ohm, F, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8204	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8205	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8206	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8207	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8208	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8217	D0GA221JA023	M 220 Ohm, J, 1/16W		
		R8218	D0GA221JA023	M 220 Ohm, J, 1/16W		
		R8219	D1BA2400A023	M 240 Ohm, F, 1/16W		
		R8220	D1BA2400A023	M 240 Ohm, F, 1/16W		
		R8221	D0GA103JA023	M 10K Ohm, J, 1/16W		
		R8230	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8231	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8232	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8233	D1BA2700A023	M 270 Ohm, F, 1/16W		
		R8234	D0GA330JA023	M 33 Ohm, J, 1/16W		
		R8236	D0GA330JA023	M 33 Ohm, J, 1/16W		
		R8240	D1HY3304A012	NETWORK RESISTOR		
		R8241	D1HY3304A012	NETWORK RESISTOR		
		R8242	D1HY3304A012	NETWORK RESISTOR		
		R8243	D1HY3304A012	NETWORK RESISTOR		
		R8244	D1HY3304A012	NETWORK RESISTOR		
		R8245	D0GA330JA023	M 33 Ohm, J, 1/16W		
		R8246	D0GA330JA023	M 33 Ohm, J, 1/16W		
		R8300	D0GA331JA023	M 330 Ohm, J, 1/16W		
		R8301	D0GA360JA023	M 36 Ohm, J, 1/16W		
		R8302	D0GA360JA023	M 36 Ohm, J, 1/16W		
		R8303	D1BA6201A023	M 6.2K Ohm, F, 1/16W		
		R8305	D1BA2491A023	M 2.49k Ohm, F, 1/16W		
		R8306	D0GA360JA023	M 36 Ohm, J, 1/16W		
		R8307	D0GA360JA023	M 36 Ohm, J, 1/16W		
		R8450	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8451	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8453	D1BA2872A023	M 28.7K Ohm, F, 1/16W		
		R8454	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8455	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8457	D1BA2872A023	M 28.7K Ohm, F, 1/16W		
		R8458	D1BA1652A023	M 16.5K Ohm, F, 1/16W		
		R8469	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8470	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8474	D0GA272JA023	M 2.7K Ohm, J, 1/16W		
		R8478	D0GAR00J0005	M 0 Ohm, 1/16W		
		R8479	D0GAR00J0005	M 0 Ohm, 1/16W		
		R8666	D1HY1038A012	NETWORK RESISTOR		
		R8800	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8803	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8816	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8817	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8819	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8820	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8831	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8850	D0GA331JA023	M 330 Ohm, J, 1/16W		
		R8851	D1BB7151A143	M 7.15K Ohm, J, 1/10W		
		R8852	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R8853	D0GA182JA023	M 1.8K Ohm, J, 1/16W		
		R8858	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8870	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8878	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8884	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8885	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8903	D0GA472JA023	M 4.7K Ohm, J, 1/16W		
		R8906	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8909	D0GA222JA023	M 2.2K Ohm, J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8910	D0GA103JA039	M 10K Ohm, J, 1/16W		
		R8911	D1HY1218A012	NETWORK RESISTOR		
		R8914	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8915	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8916	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8917	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8918	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8919	D0GA680JA023	M 68 Ohm, J, 1/16W		
		R8924	D0GA102JA039	M 1K Ohm, J, 1/16W		
		R8926	D0GA332JA023	M 3.3K Ohm, J, 1/16W		
		R8967	D0GA473JA039	M 47K Ohm, J, 1/16W		
		R959	D0GA220JA023	M 22 Ohm, J, 1/16W		
		R960	D0GA220JA023	M 22 Ohm, J, 1/16W		
TRANSFORMER						
		T7301	G4DYA0000567	TRANSFORMER		
OTHERS						
		A02	K1KY14BA0484	CONNECTOR		
		A11	K1KY07BA0483	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A18	K1MY30B00008	CONNECTOR		
		CF7101	D4CAY4R7A096	THERMISTORS RESISTOR		
		F7101	K5E502YYA213	FUSE		
		JA1	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA10	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA13	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA2	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA20	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA21	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA22	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA23	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA25	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA27	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA28	D0GFR00J0005	M 0 Ohm, J, 1/3W		
		JA3	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA4	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA5	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA6	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA7	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA8	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JA9	D0GDR00J0004	M 0 Ohm, J, 1/8W		
		JK3101	K1U511D00002	AV TERMINAL		
		JK4700	K1FY119D0029	TERMINAL		
		JK4701	K1FY119D0029	TERMINAL		
		JK6753	K1ZZ00001557	TUNER SHIELD		
		JK7101	K2AAYA000003	TERMINAL		
		JK8450	K1FY104B0092	TERMINAL		
		JK8451	K1FY104B0092	TERMINAL		
		JK8452	K1FY105E0017	TERMINAL		
		JK8600	K2LC1YYA0019	TERMINAL		
		JS0048	D0GAR00J0005	M 0 Ohm, 1/16W		
		JS0077	D0GAR00J0005	M 0 Ohm, 1/16W		
		K10	K1KY07BA0483	CONNECTOR		
		LF7103A	G0B153GA0082	LINE FILTER		
		LF7104A	G0B153GA0082	LINE FILTER		
		P2	K1KY14BA0491	CONNECTOR		
		P3	K1KY03BA0385	CONNECTOR		
		PC7300	B3PAA0000629	PHOTO COUPLER		
		PC7301	B3PAA0000629	PHOTO COUPLER		
		RM2800	B3RBB0000018	PHOTO DETECTOR		
		SN2800	B3JB00000219	PHOTO DETECTOR		
		SW2851	EVQ11G05R	SWITCH		
		SW2852	EVQ11G05R	SWITCH		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		SW2853	EVQ11G05R	SWITCH		
		SW2854	EVQ11G05R	SWITCH		
		SW2855	EVQ11G05R	SWITCH		
		SW2857	EVQ11G05R	SWITCH		
		X6750	H0J240500067	CRYSTAL OSCILLATOR		
		X6800	H0J410500003	CRYSTAL OSCILLATOR		
		X8300	H0J250500109	CRYSTAL OSCILLATOR		
		ZA7101	K4AD01A00004	RUG TERMINAL		
		ZA7102	K4AD01A00004	RUG TERMINAL		
		ZA7103	K4AD01A00004	RUG TERMINAL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K2CQ2YY00122	AC CORD		
		2	L0EYAA000052	SPEAKER UNIT		
		3	N2QAYB000934	REMOTE TRANSMITTER		
			N5HBZ0000109	WIFI MODULE		
			TBM4GD6634	MODEL NAME PLATE		
		4	TKK5ZC50501A	LED PANEL		
		5	TKP5ZA48903	SIDE AV BRACKET		
		6	TPD4GA04991	TOP CUSHION		
		7	TPD4GA05001	BOTTOM CUSHION		
		8	TPE4GH065	SET COVER		
		9	TQZ4GB959	FAN BAG ASSY		
			TSCKF0700001	LVDS CABLE		
			TXFPC01UDUS	CARTON ASSY		
		10	TZBL5ZX06921	PEDESTAL ASSEMBLY		
		11	TZBL5ZX08731	STAND MOULD ASSEMBLY		
			TZLD636VRUA	32 PANEL ASSEMBLY		
		12	TZTU4GA1541	BACK COVER COMPLETE		
Electrical Replacement Part List						
			TXN/K1UTUA	K PRINT ASSEMBLY		
			TZRNPl1UGUG	P PRINT ASSEMBLY		
			TZT/A1UDUS	A PRINT ASSEMBLY		