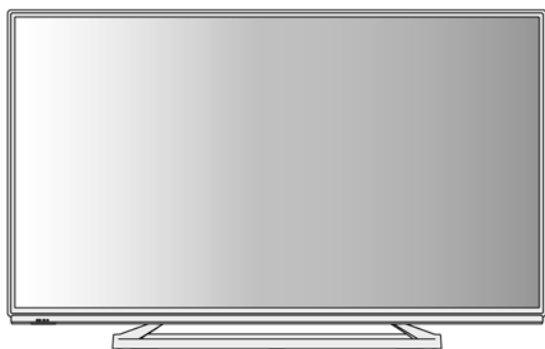


Service Manual

LED TV



Model No. TH-40A400S

Chassis: KM25

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.

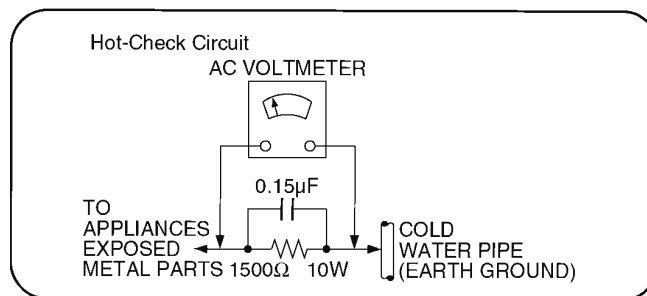


Figure 1

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).

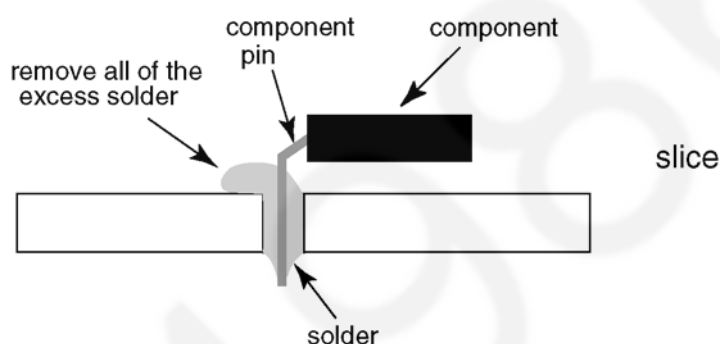
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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.

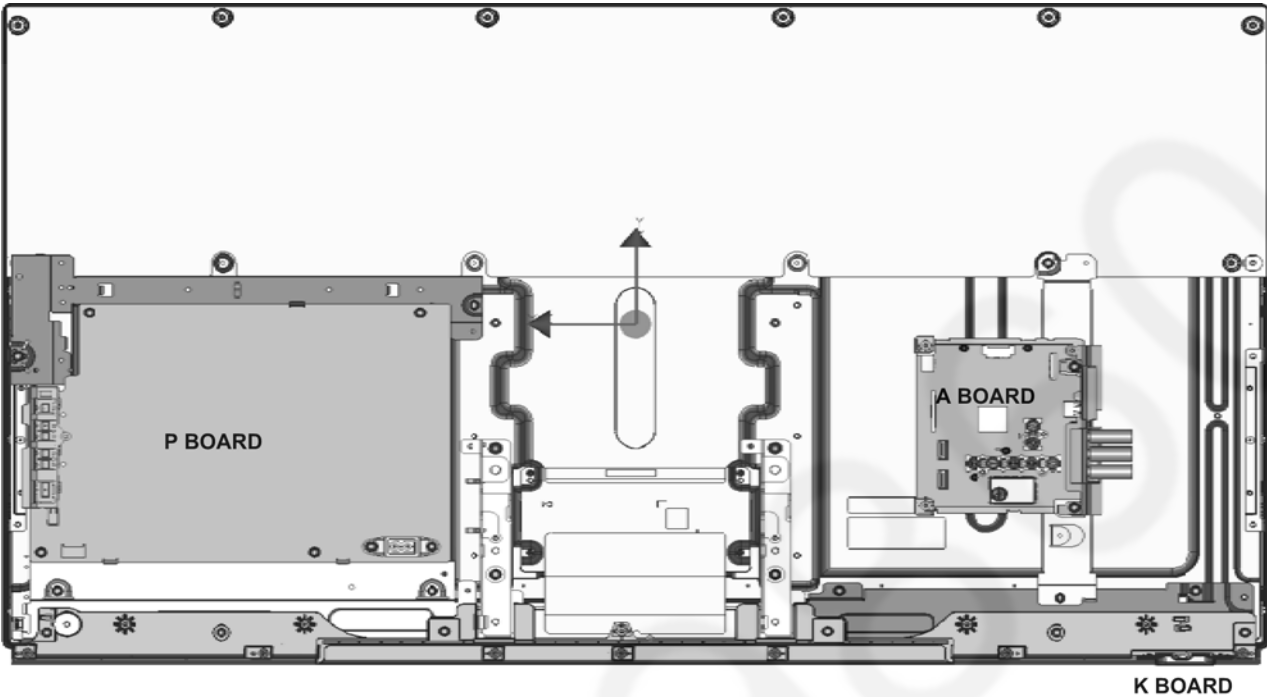
Caution

- 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, EEP, SPI Flash, Realtek Soc	Repairable
P BOARD	Power Supply, LED Driver IC, Keyscan, LED Driver IC	Repairable
K BOARD	Remote, LED, Luminence Sensor	Repairable

4 Specifications

Power source	AC 220 - 240 V, 50/60 Hz
Power consumption	
(Rated power / Standby power)	68 W / 0.25 W
Display panel	
Panel	LCD panel (LED backlight)
Visible screen size (diagonal)	100 cm
Display resolution	1,920 (W) × 1,080 (H)
Dimensions (W × H × D)	
	904 mm × 570 mm × 247 mm (With Pedestal)
	904 mm × 527 mm × 59 mm (TV only)
Mass	
	12.0 kg (With Pedestal)
	10.0 kg (TV only)
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, P_R ±0.35 V[p-p]
HDMI 1 / 2 input	TYPE A Connectors
USB	USB 2.0 TYPE A Connectors
	DC 5 V, Max. 500 mA
DIGITAL AUDIO OUT	PCM / Dolby Digital / DTS, Fibre optic

Sound

Audio output 20 W (10 W + 10 W)

Receiving systems / Band name

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

Receiving channels (Analogue TV)

VHF BAND

2 - 12 (PAL / SECAM B, K1)

0 - 12 (PAL B AUST.)

1 - 9 (PAL B N.Z.)

1 - 12 (PAL / SECAM D)

1 - 12 (NTSC M Japan)

2 - 13 (NTSC M USA)

UHF BAND

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

28 - 69 (PAL B AUST.)

13 - 57 (PAL D, K)

13 - 62 (NTSC M Japan)

14 - 69 (NTSC M USA)

CATV

S1 - S20 (OSCAR)

1 - 125 (USA CATV)

C13 - C49 (JAPAN)

S21 - S41 (HYPER)

Z1 - Z37 (CHINA)

5A, 9A (AUST.)

Aerial input

VHF / UHF

Operating Conditions

Temperature : 0 °C - 40 °C

Humidity : 20 % - 80 % RH (non-condensing)

Note

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

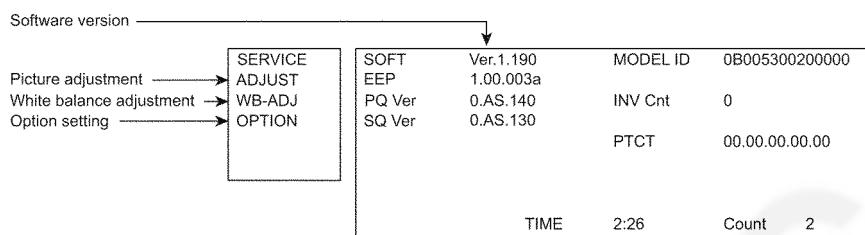
5 Service Mode

5.1. How to enter into Service Mode

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	H POS	
	H AMP	
	V POS	
	V AMP	
	V COM	
WB-ADJ	R-GAIN	8D
	G-GAIN	AE
	B-GAIN	FF
	R-CENT	6C
	G-RENT	80
	B-CENT	A0
OPTION	Boot upgrade	NO
	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

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

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

40 FHD			
Self check complete			
TUN	OK	SOFT	Ver.1.190
EEPROM	OK	EEP	1.00.003a
		Model id	0B005300200000
		PQ Ver	0.AS.140
		SQ Ver	0.AS.130

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

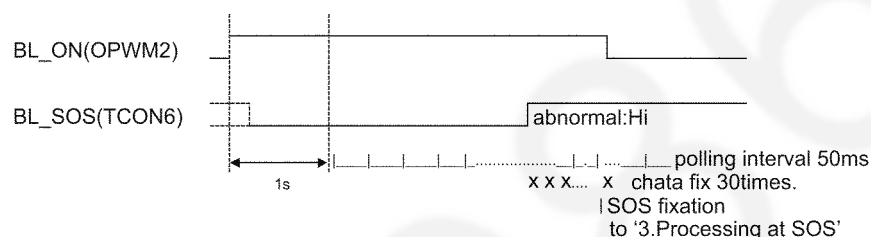
When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

Priority	Name	Factor	R_LED Blink
1	BL_SOS	SOS from PANEL inverter	1
2	TV_SOS	TCON power down	3
3	SOUND_SOS	SOS from audio AMP	9

6.3. Method of detecting SOS

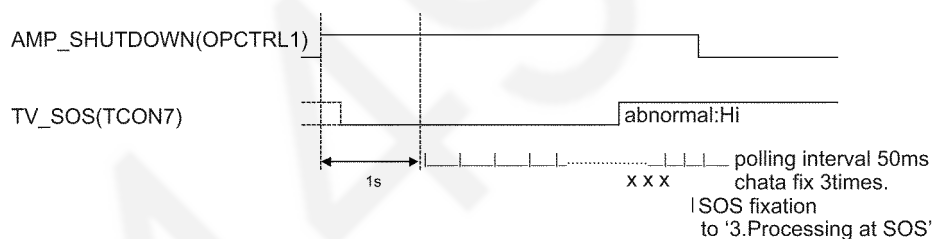
1. BL_SOS

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



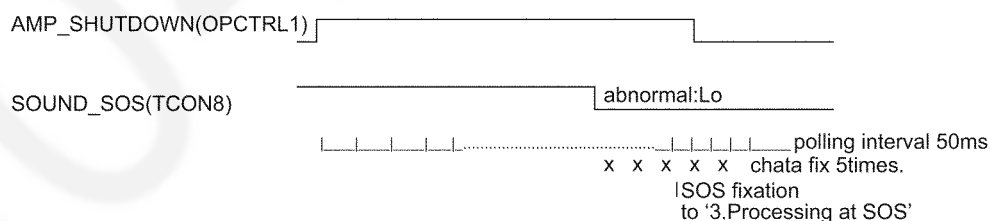
2. TV_SOS

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.

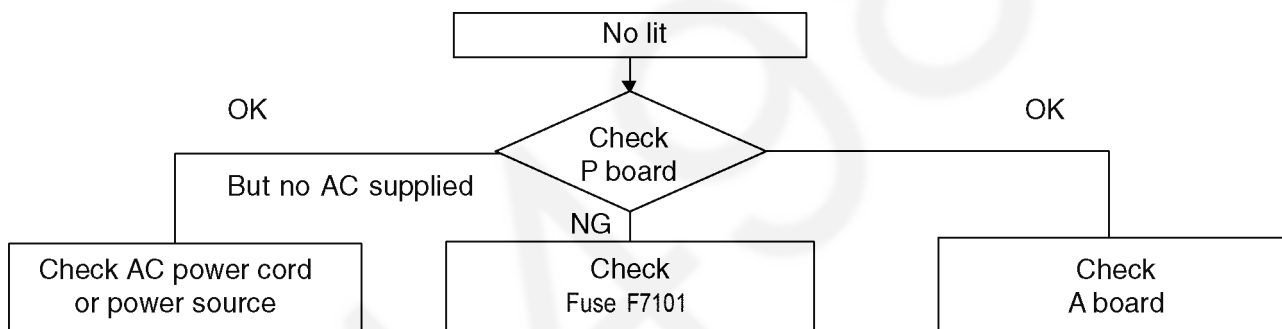
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.5. No Power

First check point

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

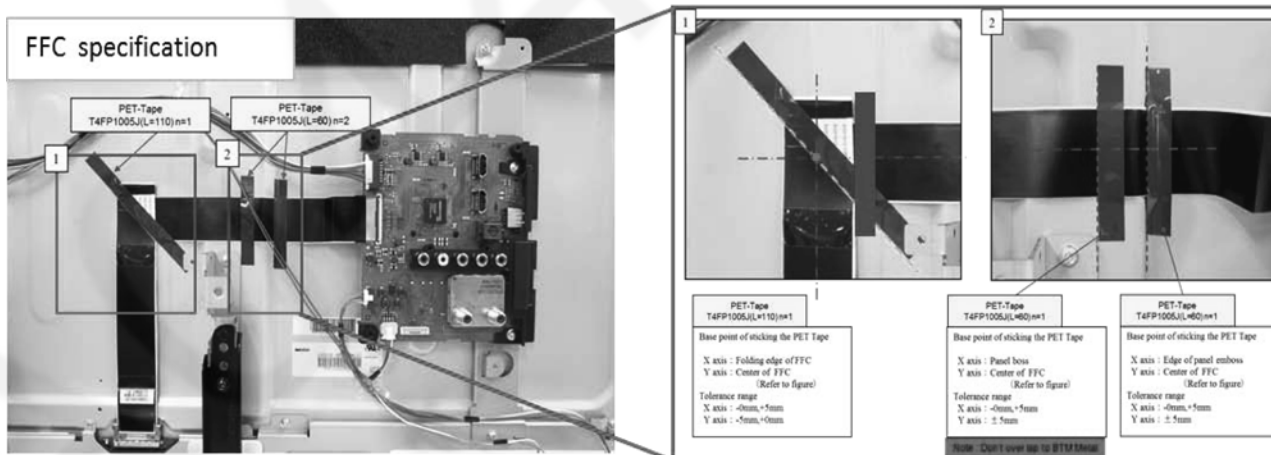
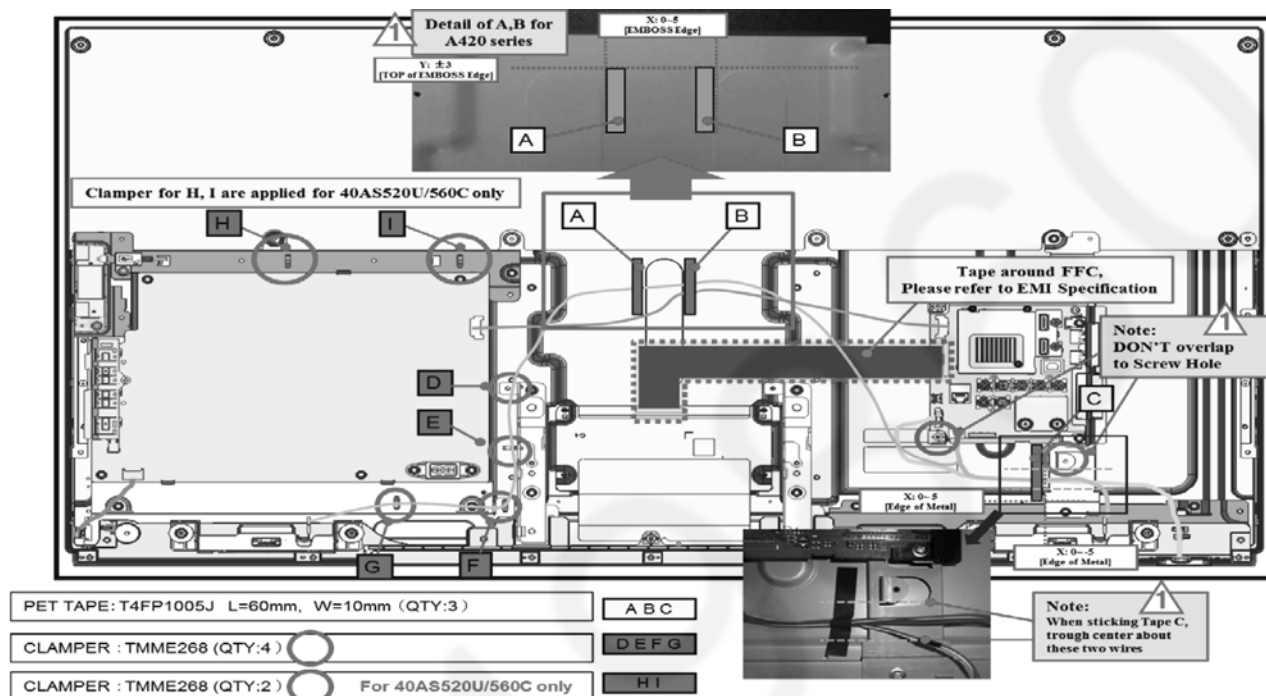
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

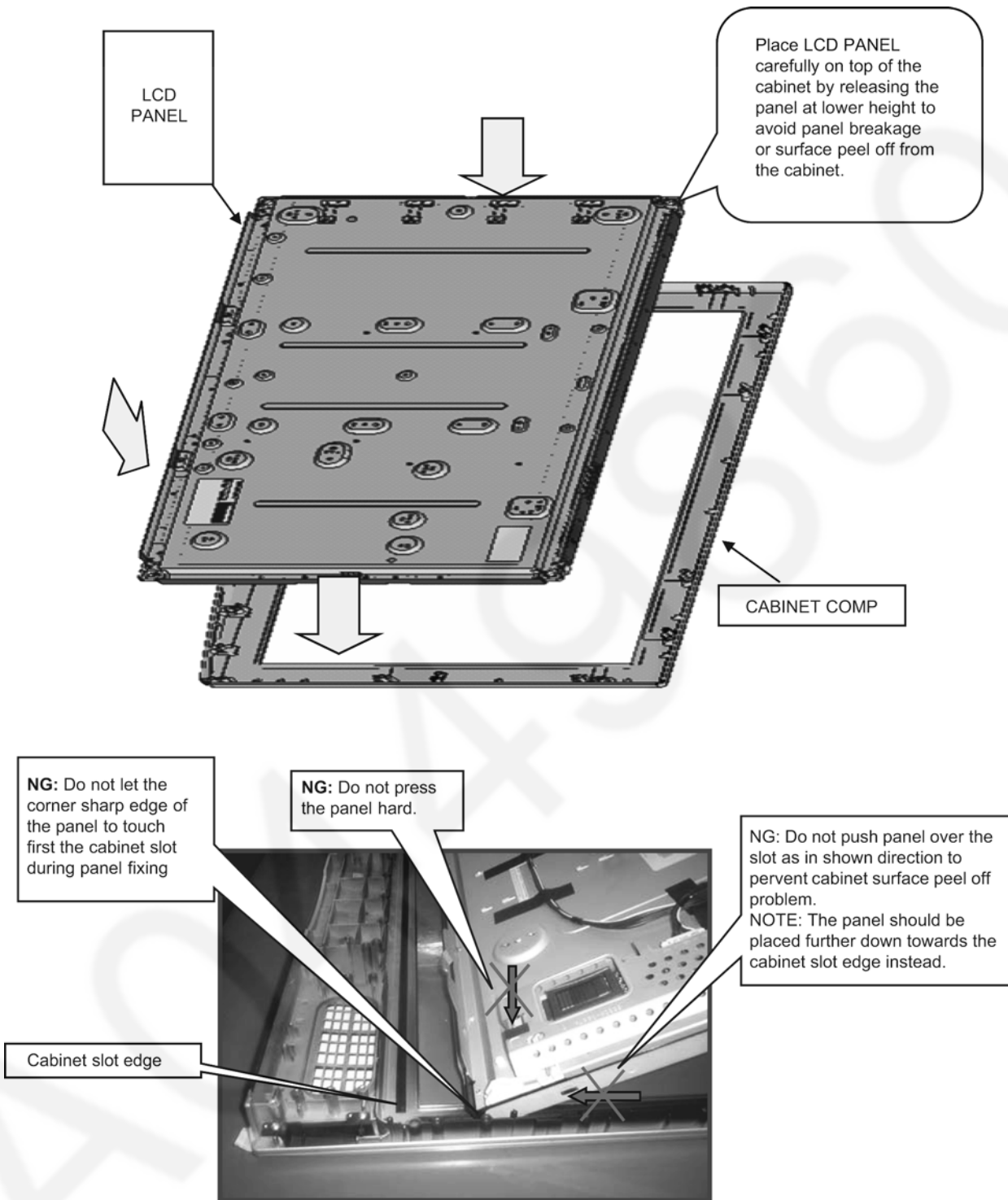
7.1. SP Assembly

1. Fixing SP bracket to metal chassis frame.
2. Insert SP unit to SP bracket.
3. Tight screw to SP bracket.



7.2. LCD Panel Fixing & Handling Method

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

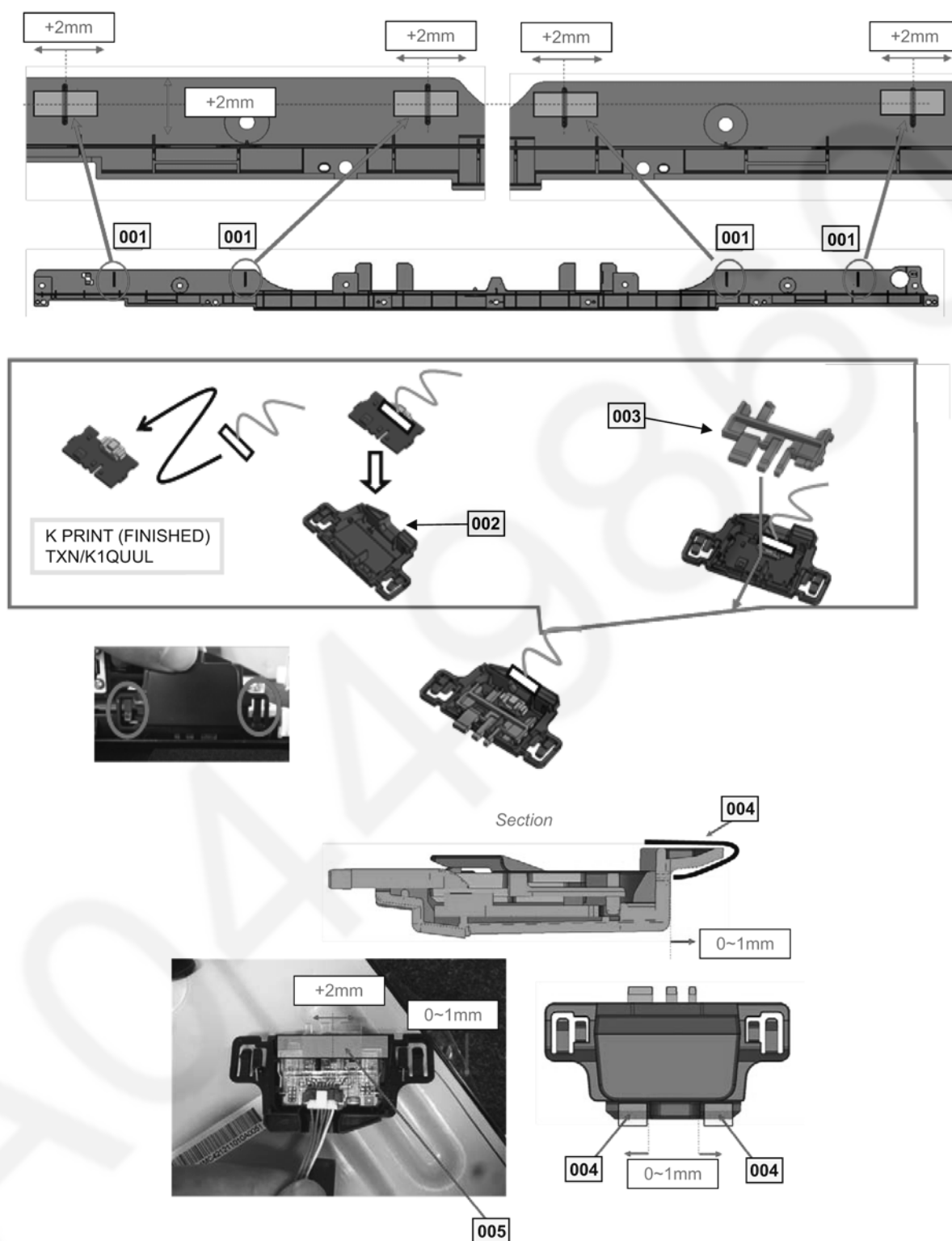


Other general precautions

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

7.3. LED Panel Assy

Install Btm Assy.



No	Description	Qty	UOM
001	FELT (0.9 × 25 × 10)	4	PC
002	LED_PANEL_CASE	1	PC
003	LED PANEL	1	PC
004	FELT (0.55 × 10 × 10)	2	PC
005	SPONGE (T3.0 × 40 × 10)	1	PC

7.4. Install Metal Parts

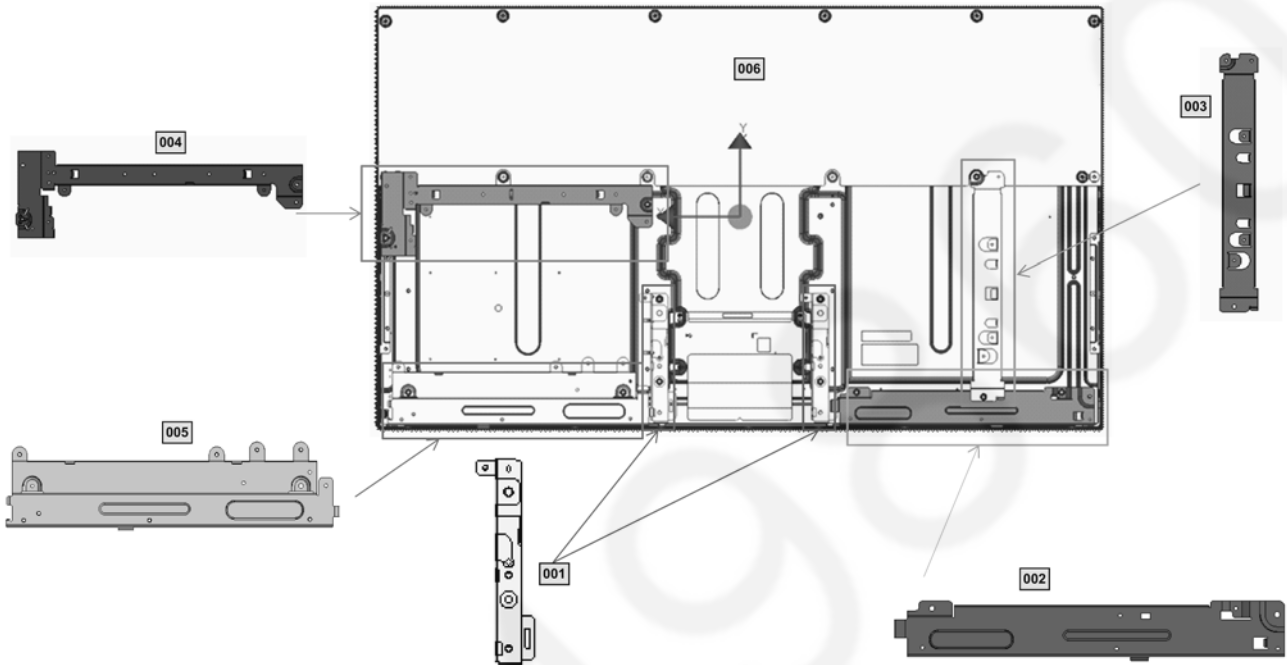
Please allow the sequence for assembly each part of metal.

<Caution Point>

Procedure of sequence to assemble each metal.

001 → 002

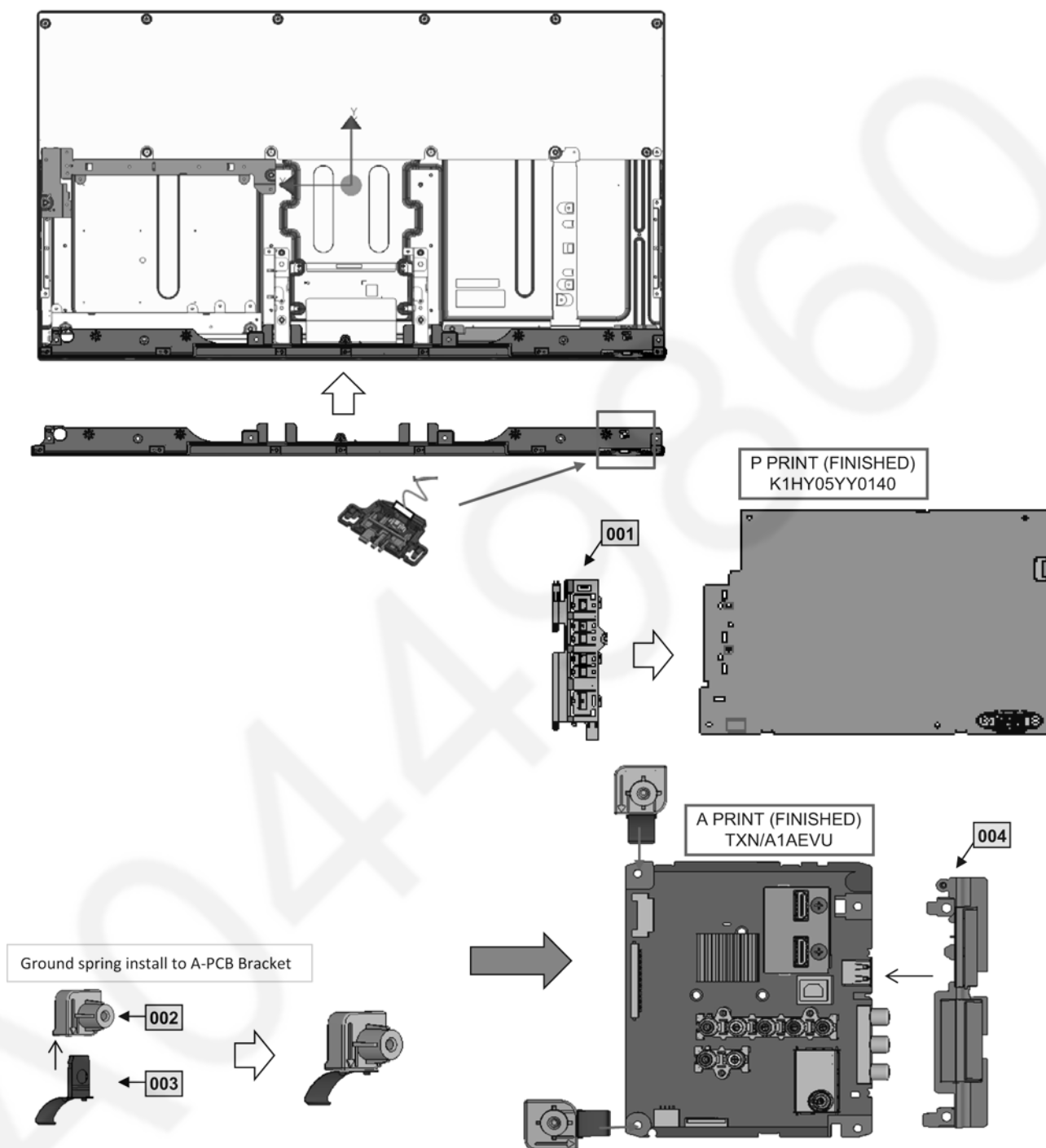
※ 003 - 005 is OK in any Assembly



No	Description	Qty	UOM
001	BOTTOM_METAL	2	PC
002	METAL_CH_FRAME_BTM-A	1	PC
003	METAL_CH_FRAME_SIDE-A	1	PC
004	METAL_CH_FRAME_TOP-A	1	PC
005	METAL_CH_FRAME_BTM-P	1	PC
006	LCD PANEL	1	PC

7.5. Metal Bracket Fixing

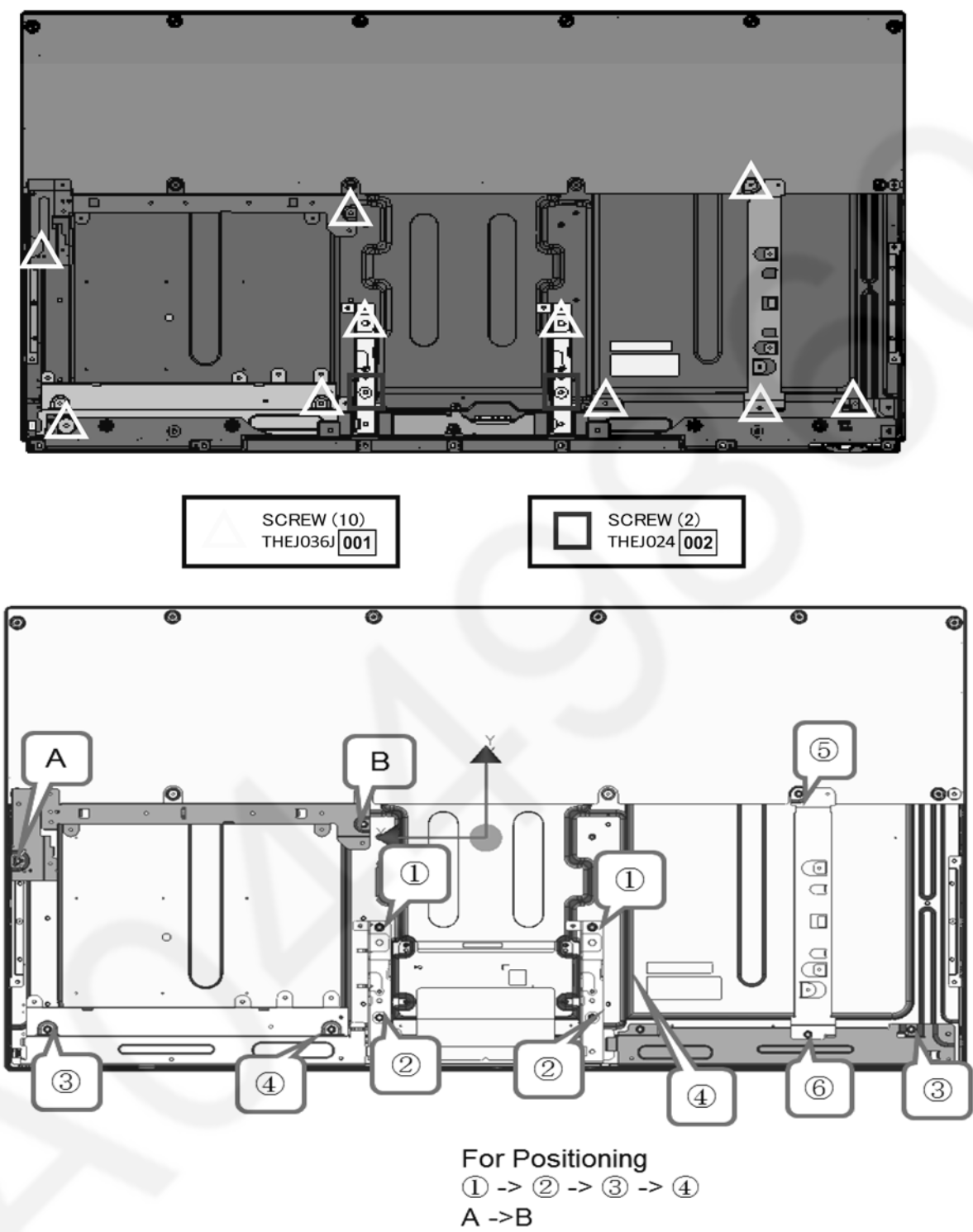
1. Fixing Metal Bracket to panel on L & R side.
2. Stick Felt at Metal Chassis Frame.
3. Stick P-print barrier on metal chassis frame.



No	Description	Qty	UOM
001	KEY_BUTTON_BRACKET	1	PC
002	A_PCB_BRACKET	2	PC
003	GROUND_SPRING	2	PC
004	SIDE_AV_BRACKET	4	PC

7.6. Chassis Frame

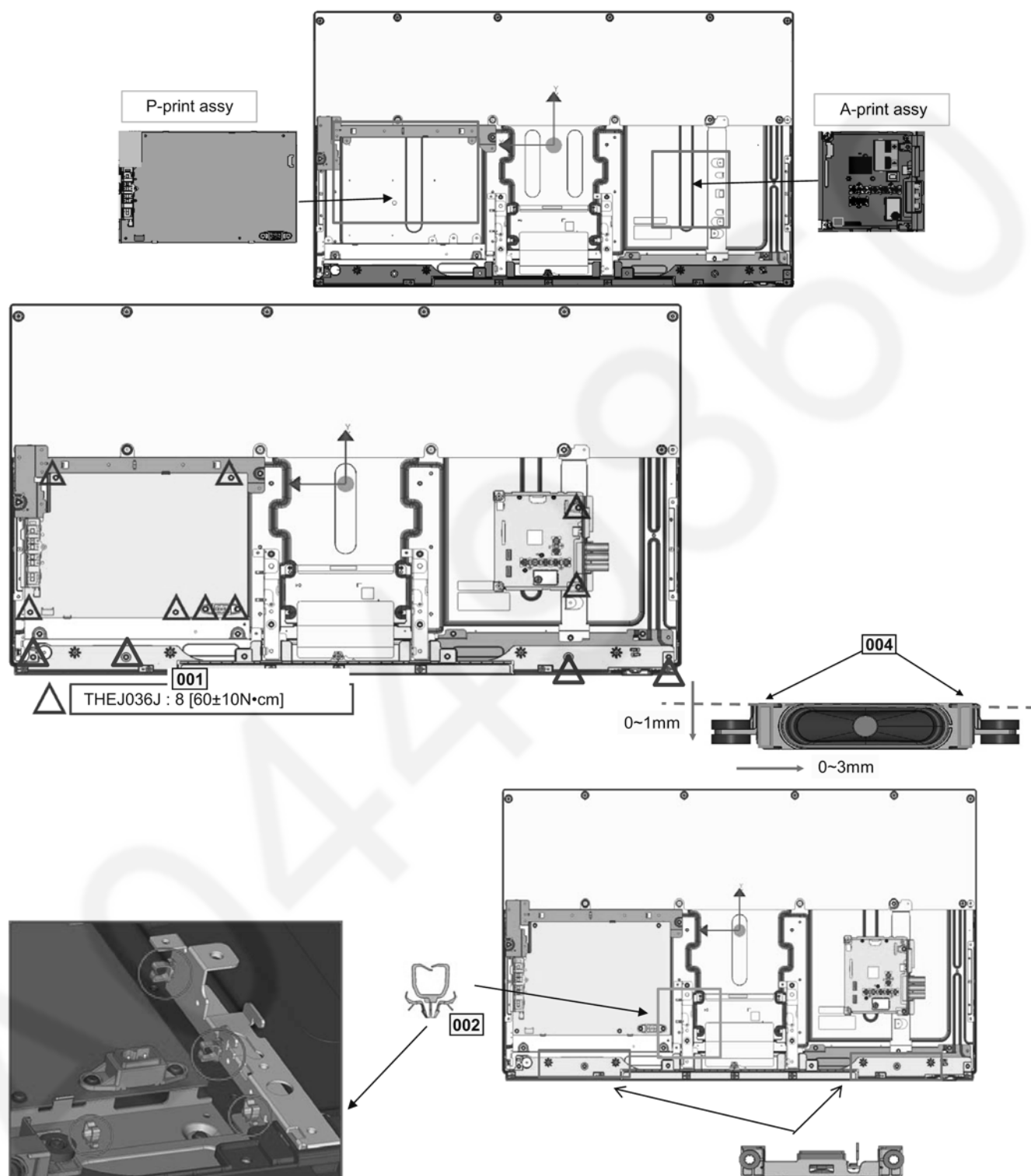
Fix screw follow the sequence procedure & right p/no.



No	Description	Qty	UOM	Remarks
001	SCREW (METAL10)	10	PC	5-7 Kgfc/cm
002	SCREW (BTM_METAL2)	2	PC	5-7 Kgfc/cm

7.7. A-Print & P-Print Board

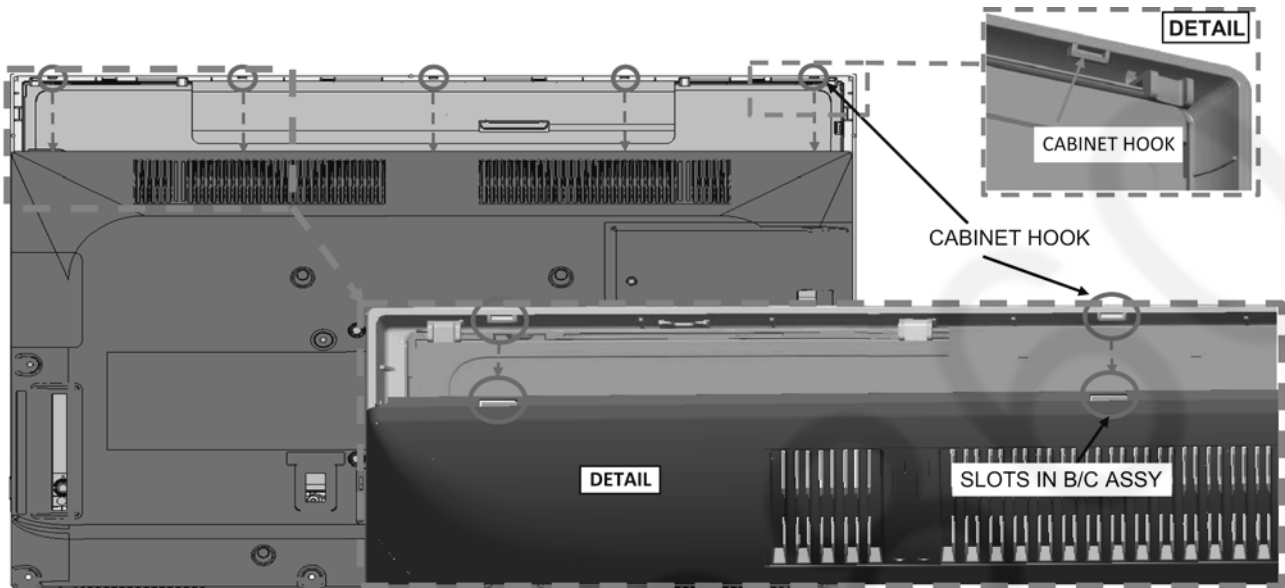
1. Insert P-Print and A-Print board at panel.
2. Fixing all screw at board and bracket.



No	Description	Qty	UOM	Remarks
001	SCREW (A2/P6/BTM_COVER4)	12	PC	5-7 KgfcM
002	CLAMPER	4	PC	
003	SPEAKER_UNIT	2	PC	
004	SPONGE (T8 × 22 × 5)	4	PC	

7.8. Installation Back Cover Assy

1. Attach back cover assy follow picture below.
2. Click slots on back cover into the hooks on cabinet.
3. Make sure follow all caution points.



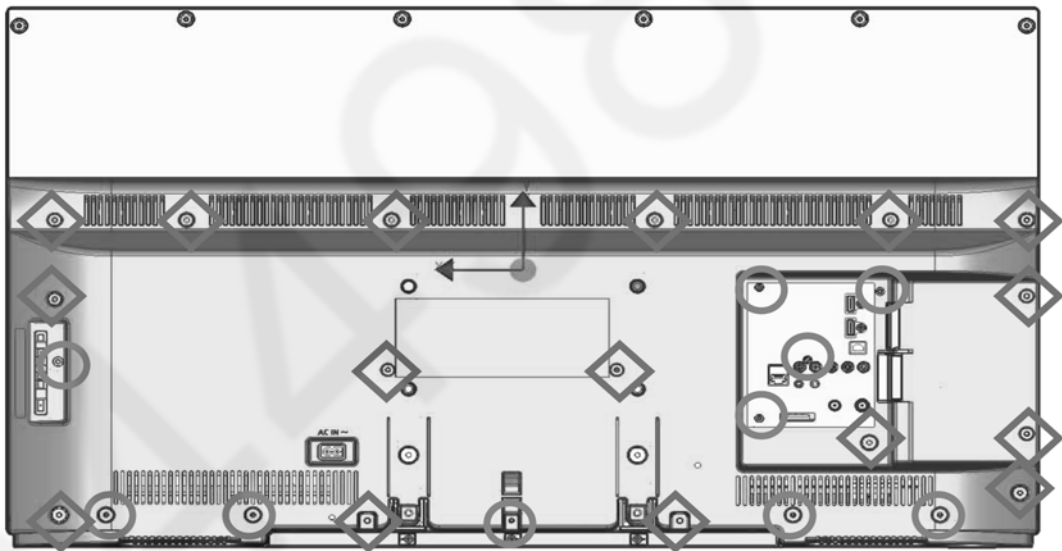
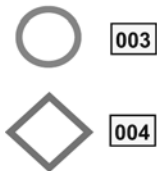
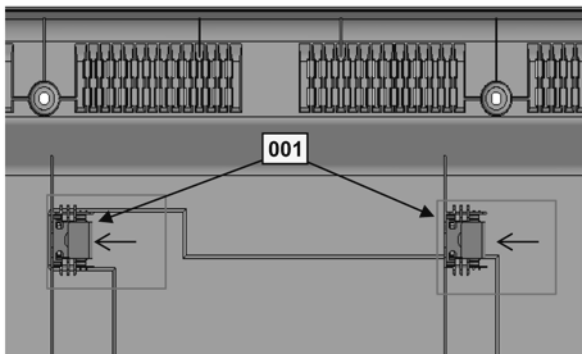
<Caution Point>
Backcover press from top to
inside area



7.9. B/Cover

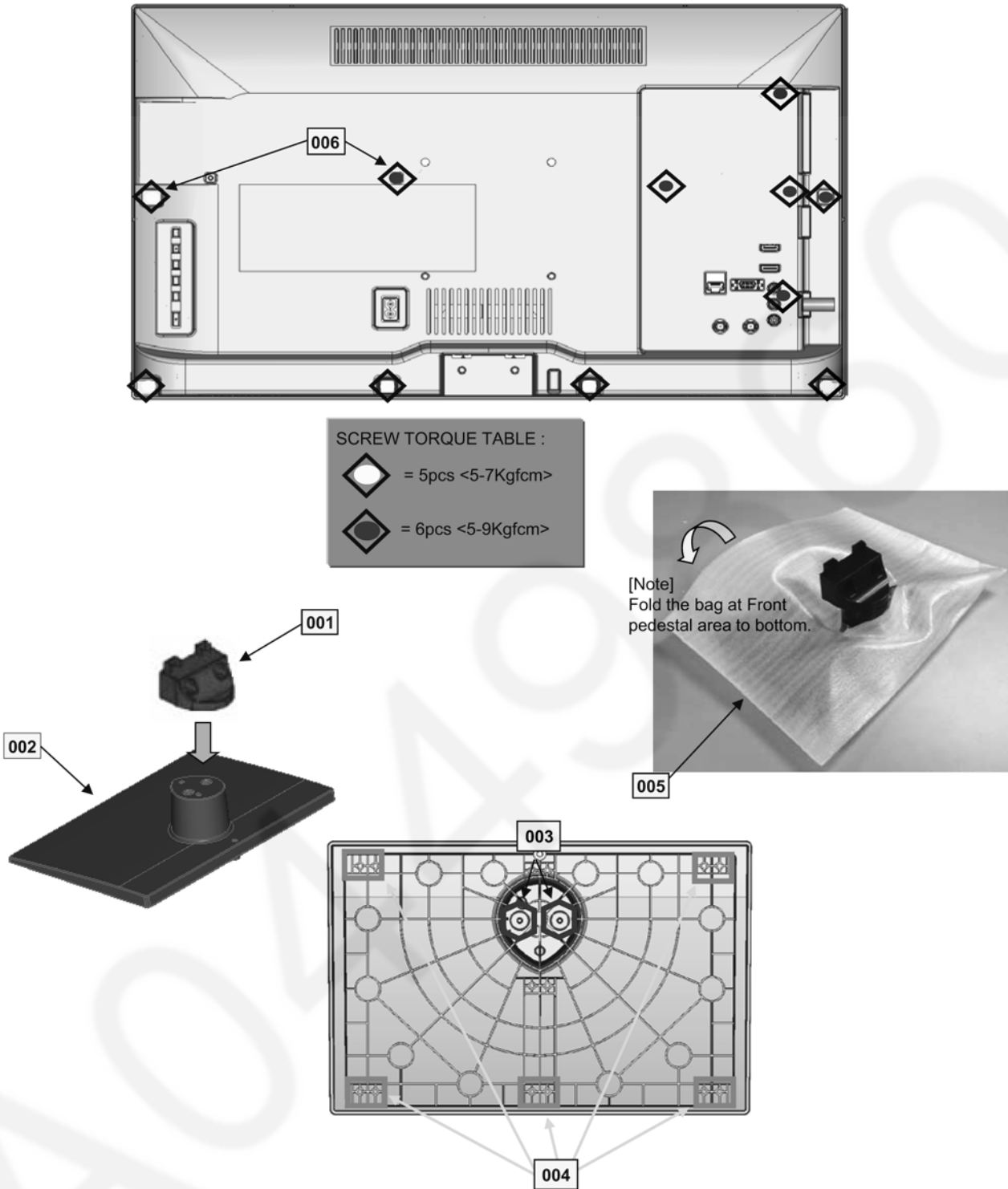
- 1. Install Vesa Metal.
- 2. Fixing screw follow torque spec.

FRONT SIDE



No	Description	Qty	UOM	Remarks
001	VESA_METAL_BC	12	PC	
002	BACK_COVER	1	PC	
003	SCREW	10	PC	5-7 KgfcM
004	SCREW (BC16)	16	PC	5-7 KgfcM

7.10. B/Cover & Pedestal



No	DESCRIPTION	Qty	UOM	Remarks
001	STAND MOULD	1	PC	
002	BASE COVER	1	PC	
003	SCREW	2	PC	4-8Kg fcm
004	RUBBER FOOT	5	PC	
005	BAG FOR PEDESTAL	1	PC	
006	SCREW (BC11)	11	PC	Refer spec table.

8 Measurements and Adjustments

8.1. Voltage chart of A-board

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

Power Supply Name	Measurement Point	Specification (V)	Remark
SUB1.2V	TP8004	1.14 - 1.26	-
SUB3.3V	TP8003	3.19 - 3.46	-
SUB5V	TP8002	4.92 - 5.25	-
STB5V	TP8009	5.3 ± 0.3	-
PNL12V	TP4300	11.5 - 12.5	-

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.

Voltage	Test Point	Specification	
		Operate	STBY
5.3V	TP7507	5.2 ± 0.2V	5.2 ± 0.2V
16V	TP7508	15.8 ± 0.5V	-
24V	TP7511	24.0 ± 2.4V	-

NOTE: GND REFERENCE TP7520/ TP7521/ TP7522 (COLD SIDE)

Step 1 Supply AC 100V/230 to JK7101 connector in the P-Board. Main power button is OFF.

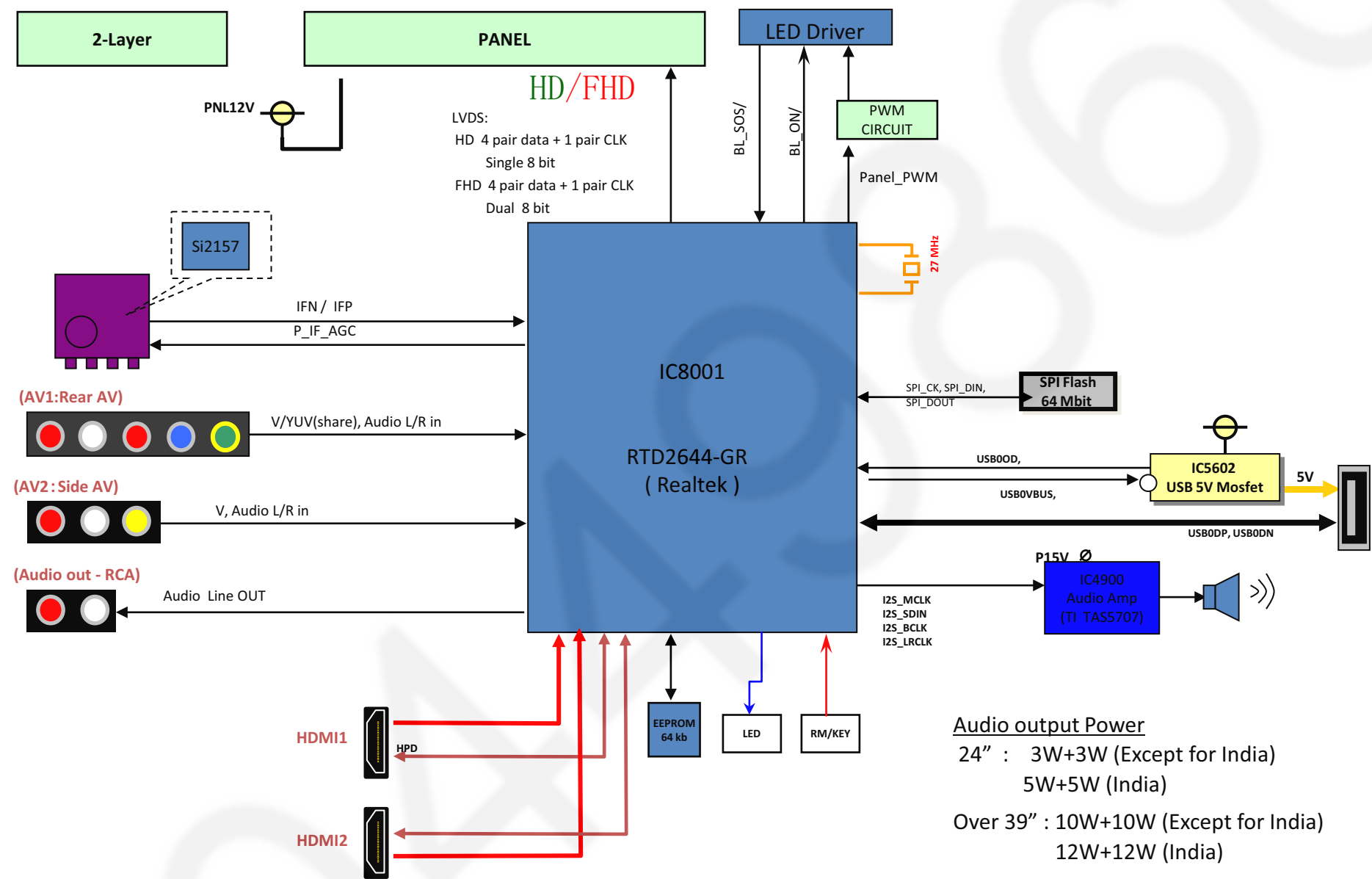
Step 2 TV_SUB_ON P2 connector - pin 8 (TP7416) DC2.5V ON.

Supply DC 2.5V to TV_SUB_ON P2 connector - pin 8 (TP7416), displayed as SWITCH.

NOTE : GND REFERENCE TP7413/TP7414/TP7415/TP7515/TP7516/TP7517 (COLD SIDE)

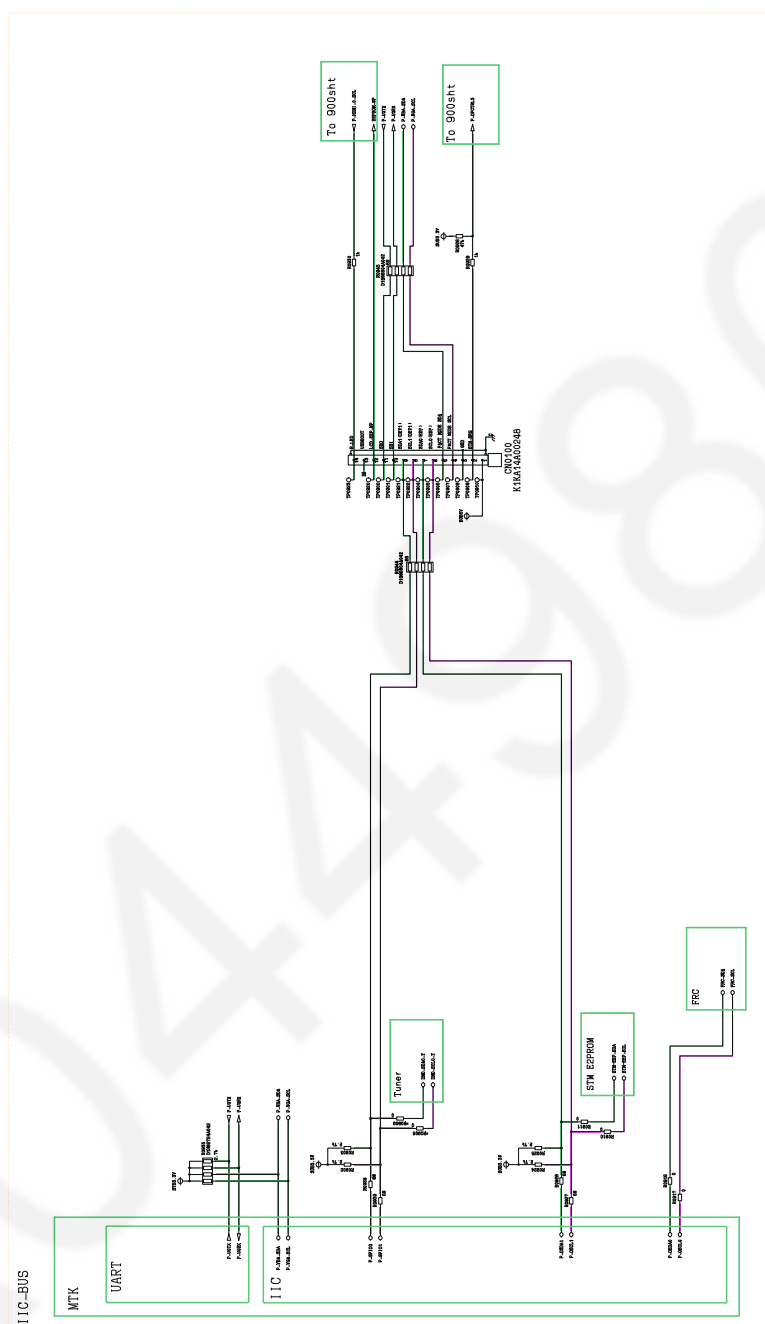
9 Block Diagram

9.1. Main Block Diagram



10 Schematic Diagram

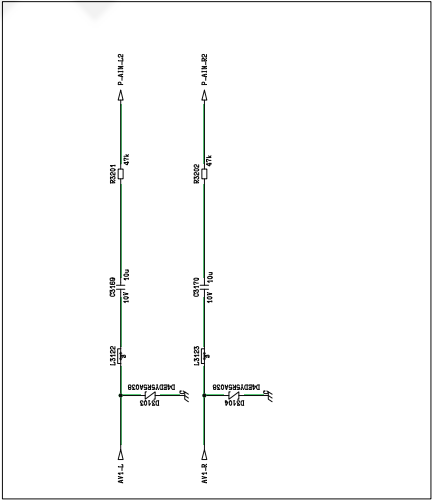
Model No. : TH-40A400S A-Board (1/13)



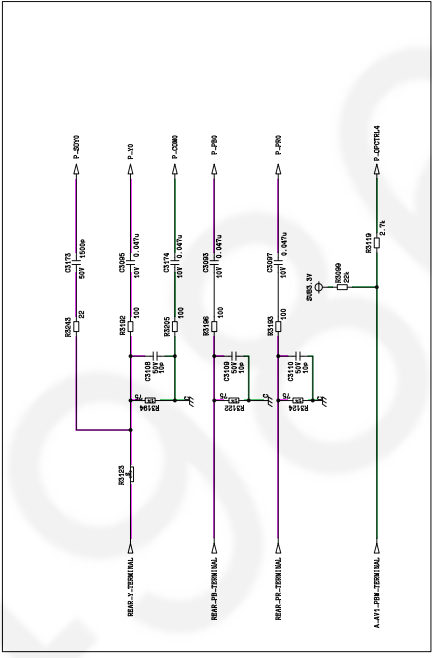
SHEET 002
IIC
REF No. 0900 - 0999

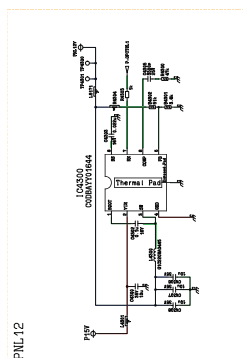
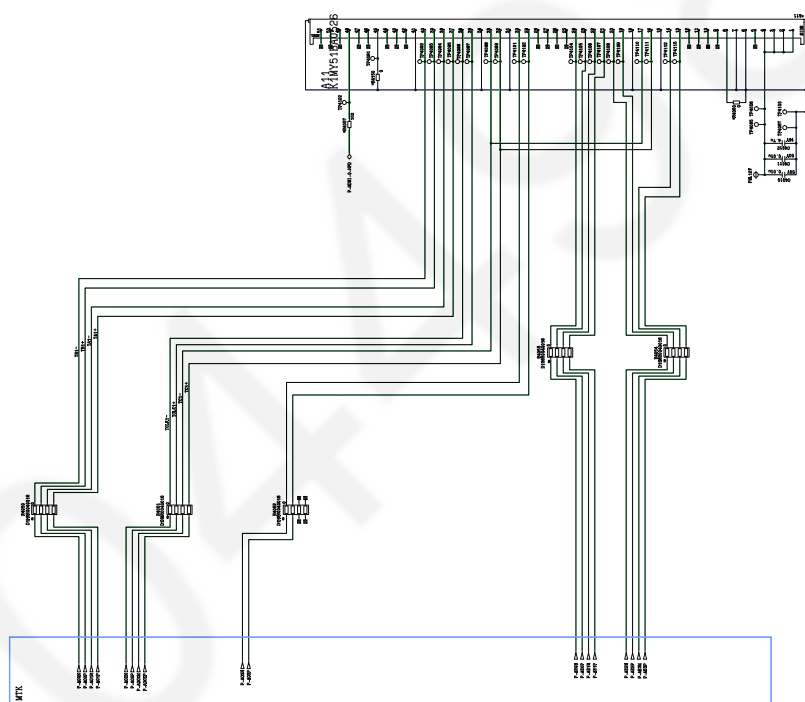
SHEET 004
AVSW-Connection
REF No. 3000 - 3399

VIDEO/AUDIO IN



YPbPr

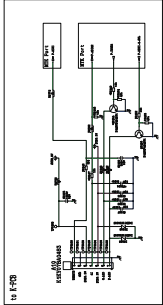
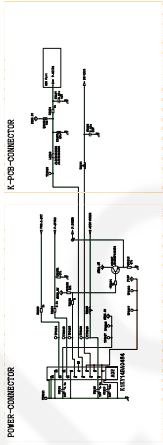
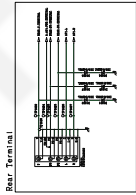
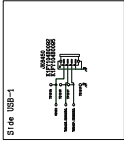
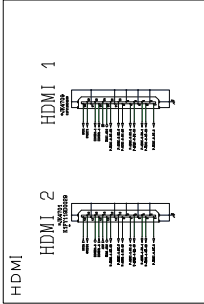




Terminal
REF No. 1000 - 1099

Set
REF No. 2000 - 2499

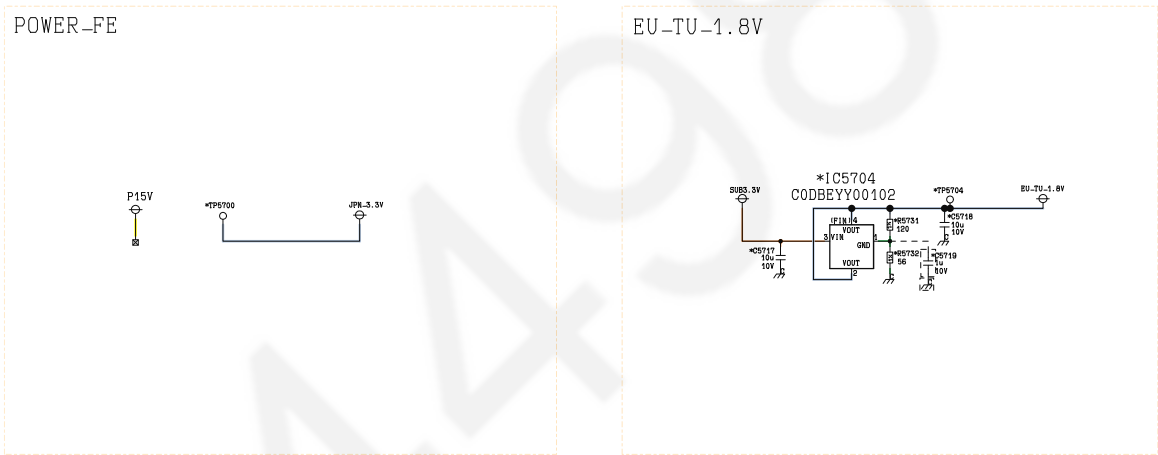
SHEET 101
SET



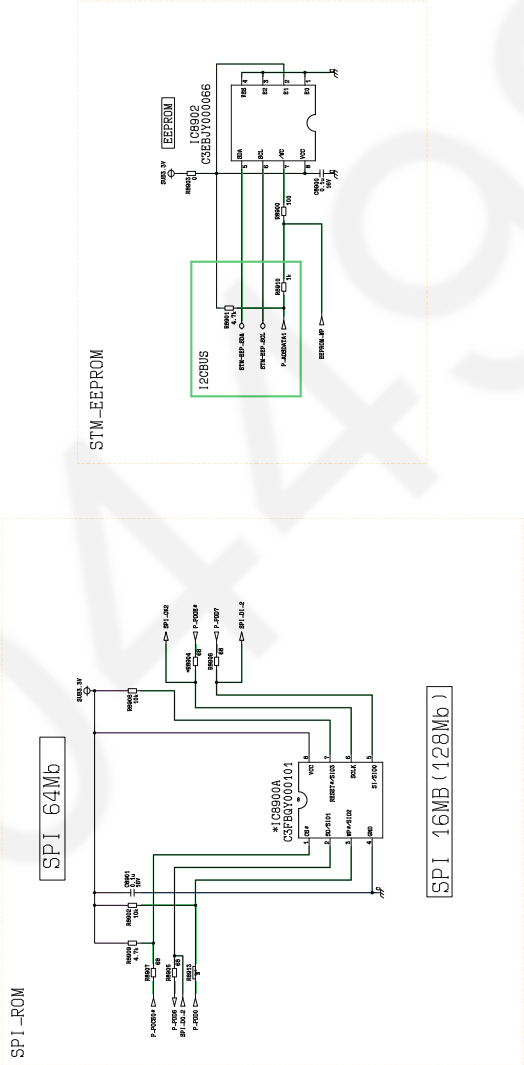
SHEET 102

Power for TU+FE

REF No. 5700 - 5899



SHEET 300
SPI / E2PROM
CRNo : 8900 - 8999

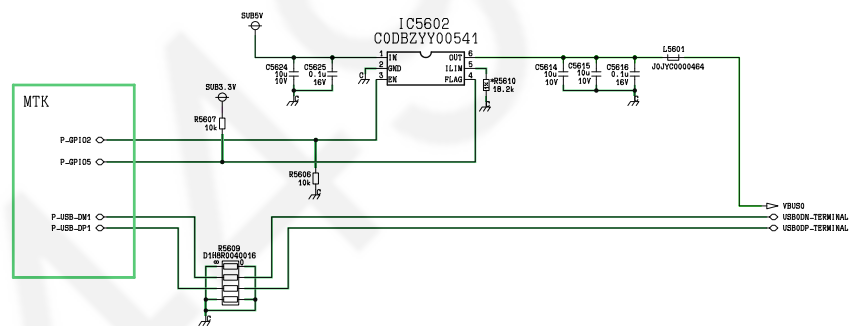


SHEET 301

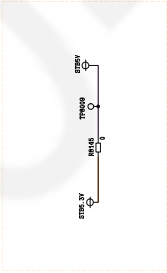
USB

REF No. 5600 - 5649

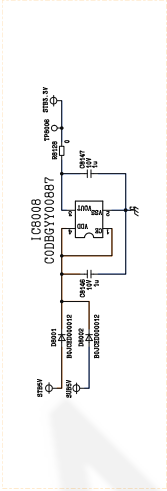
USB0



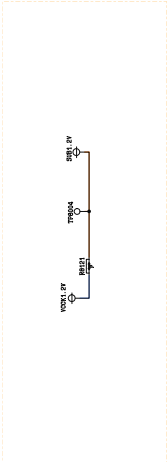
STB5V



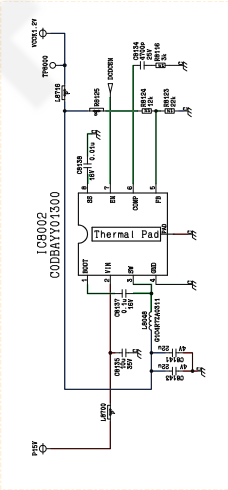
STB3.3V



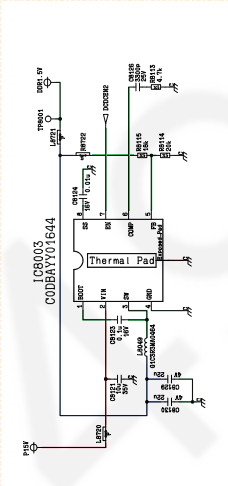
SUB1.2V



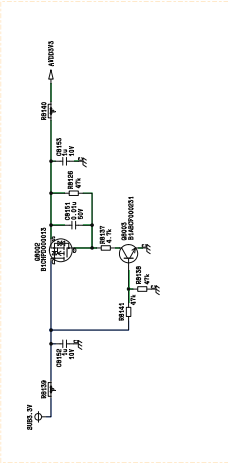
VCC4.2V



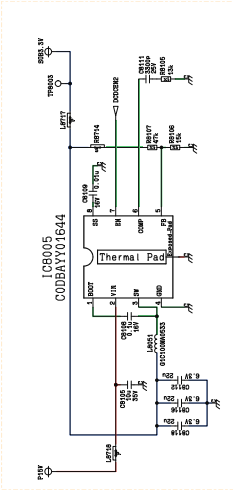
DDR1.5V



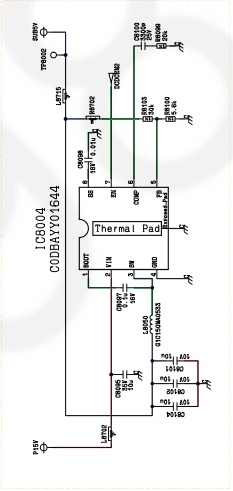
AVDDH3.3V



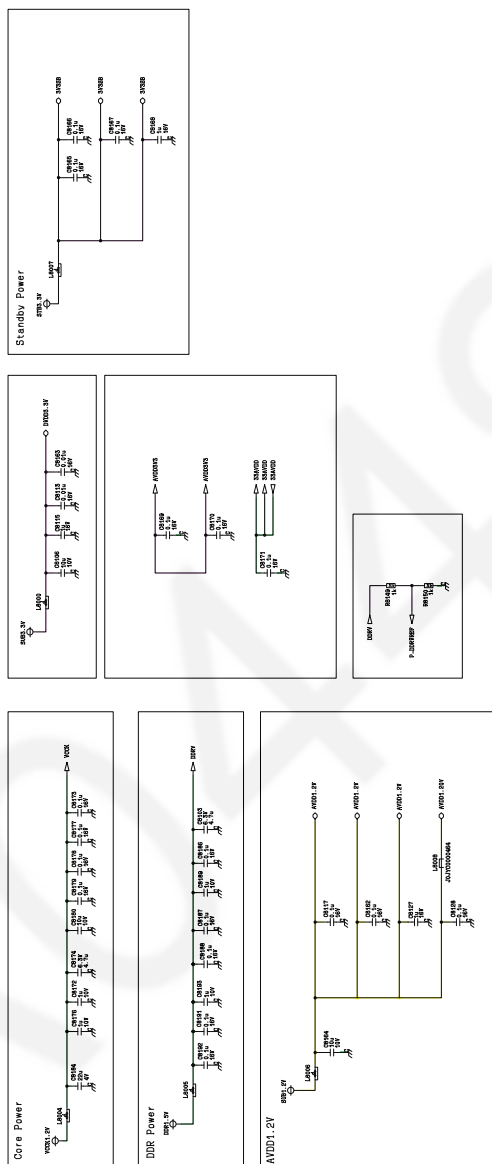
SUB3.3V



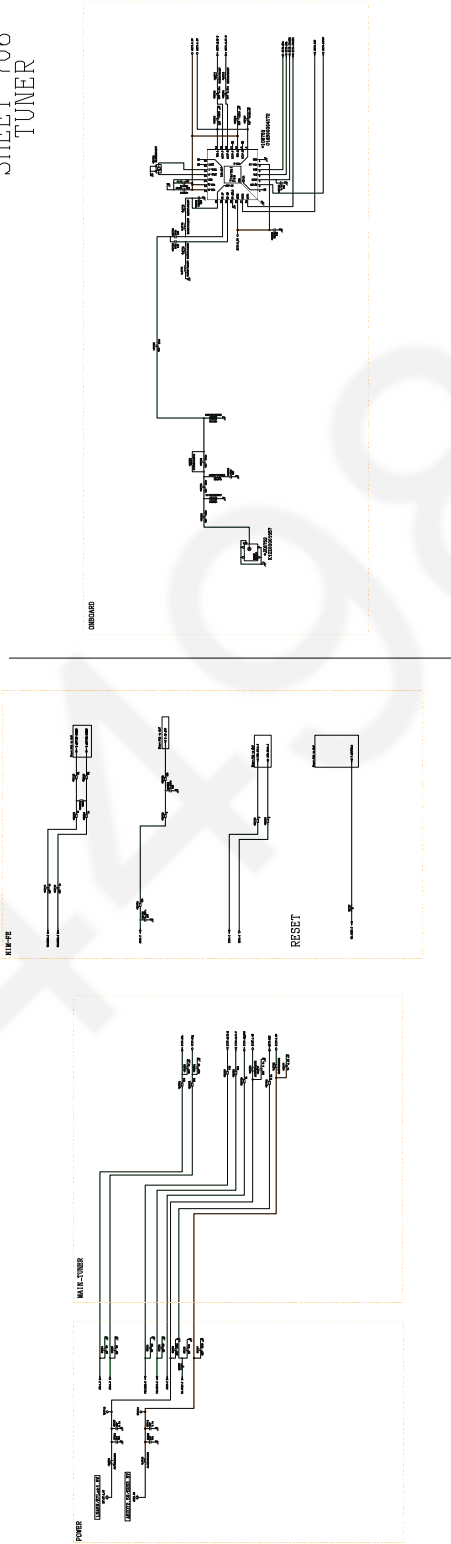
SUB5V

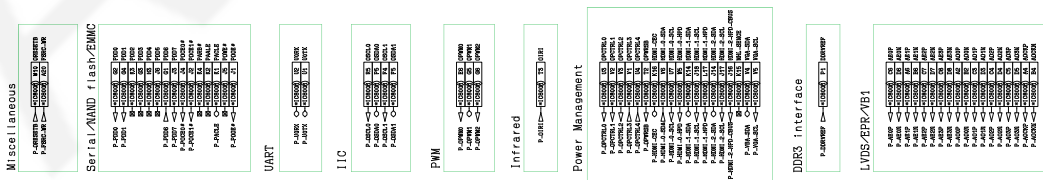
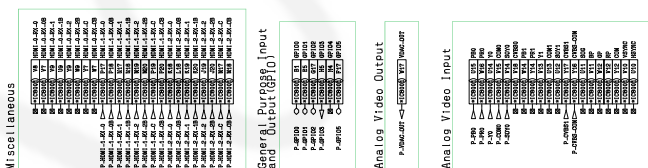
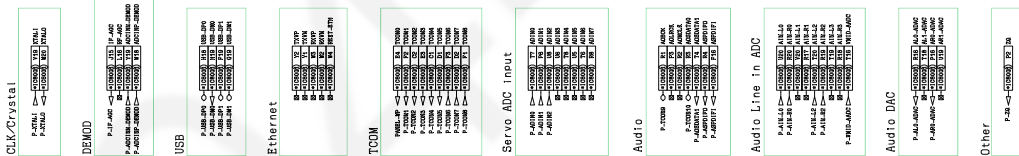
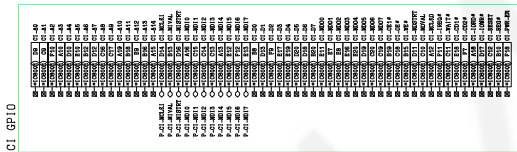
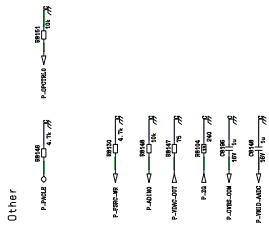
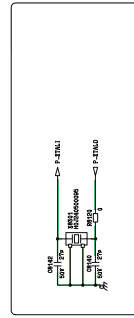
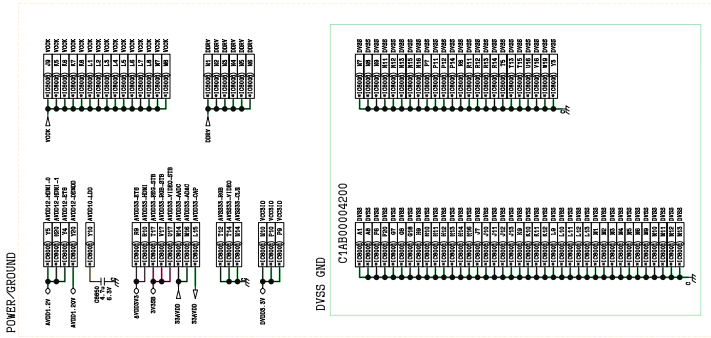


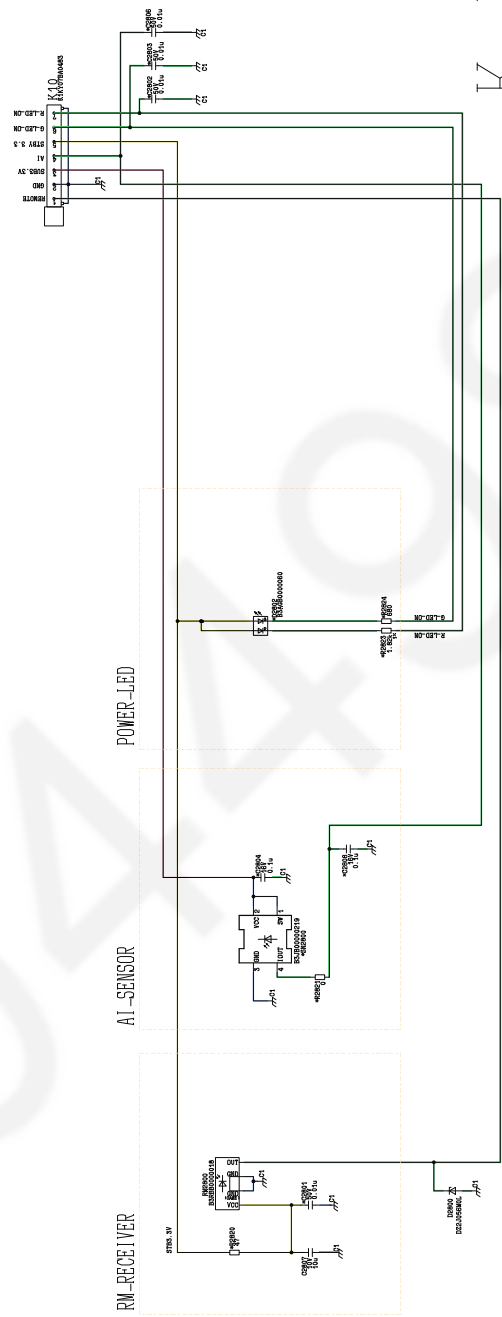
POWER



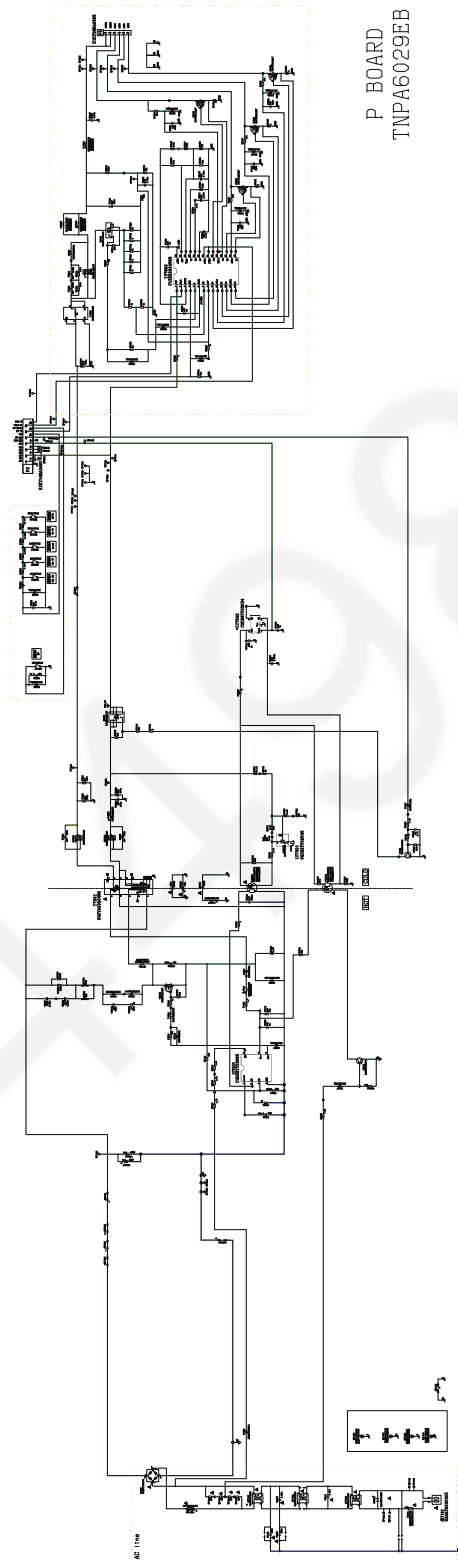
SHEET 706
TUNER





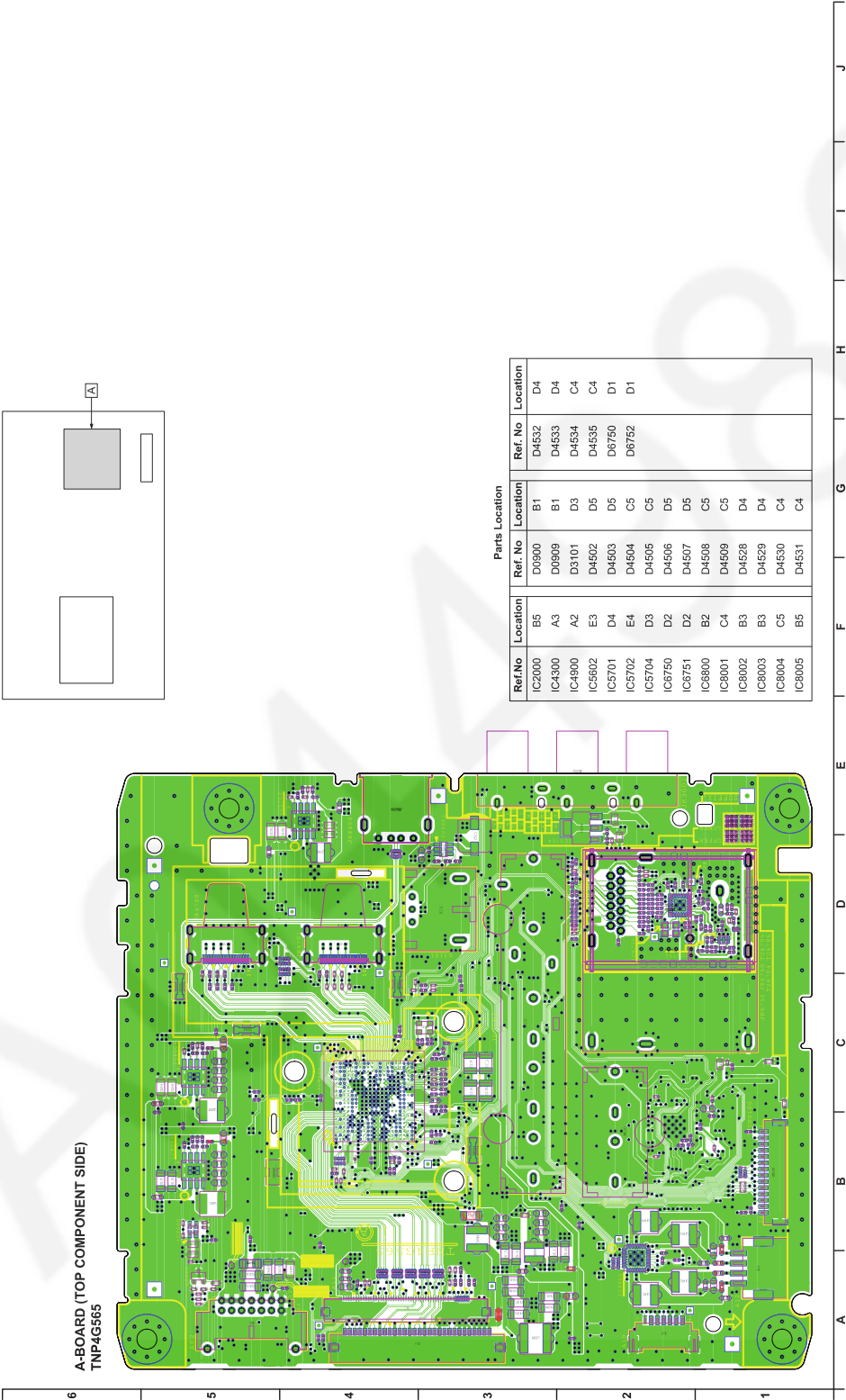


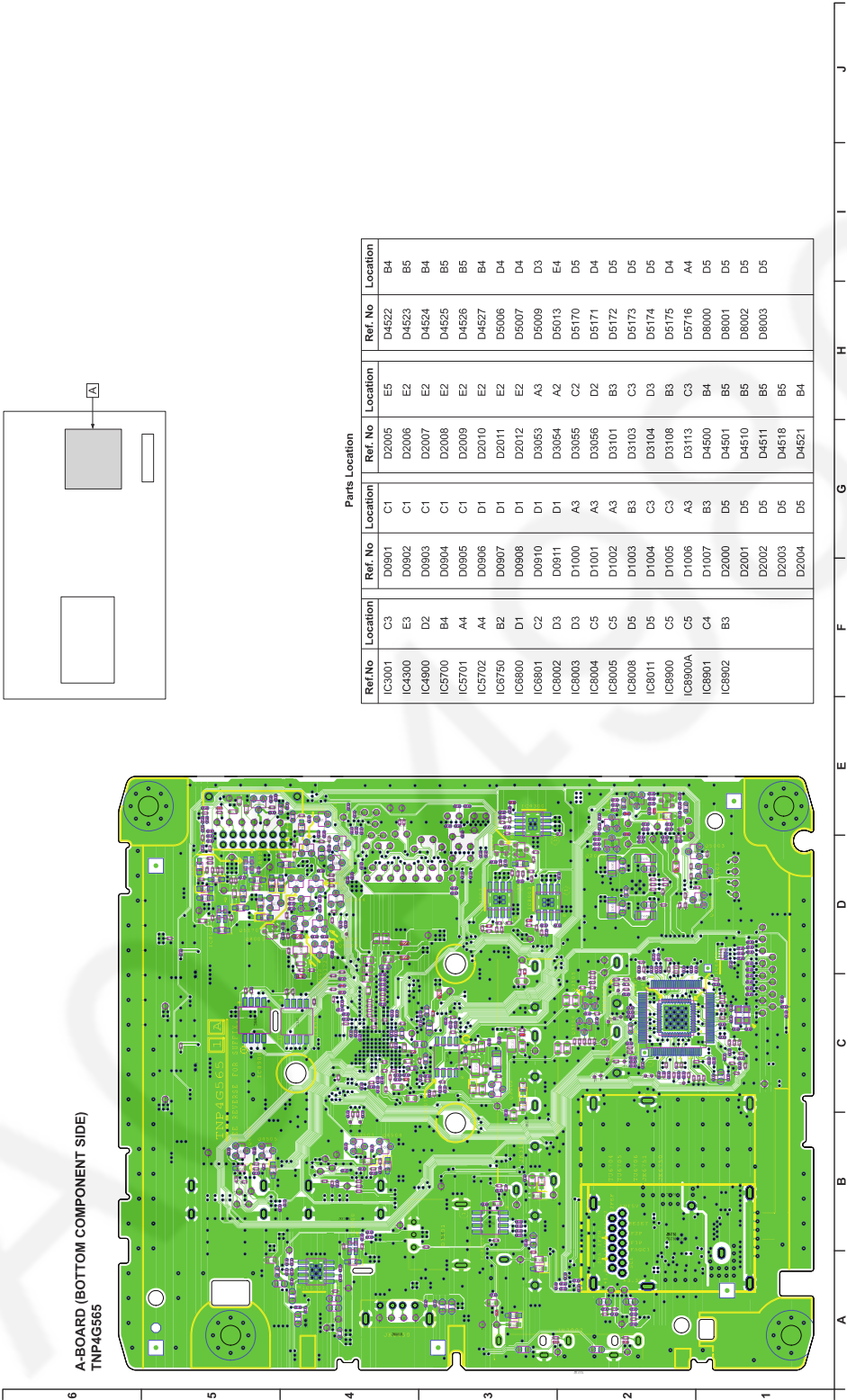
K BOARD
TNPA5915AA

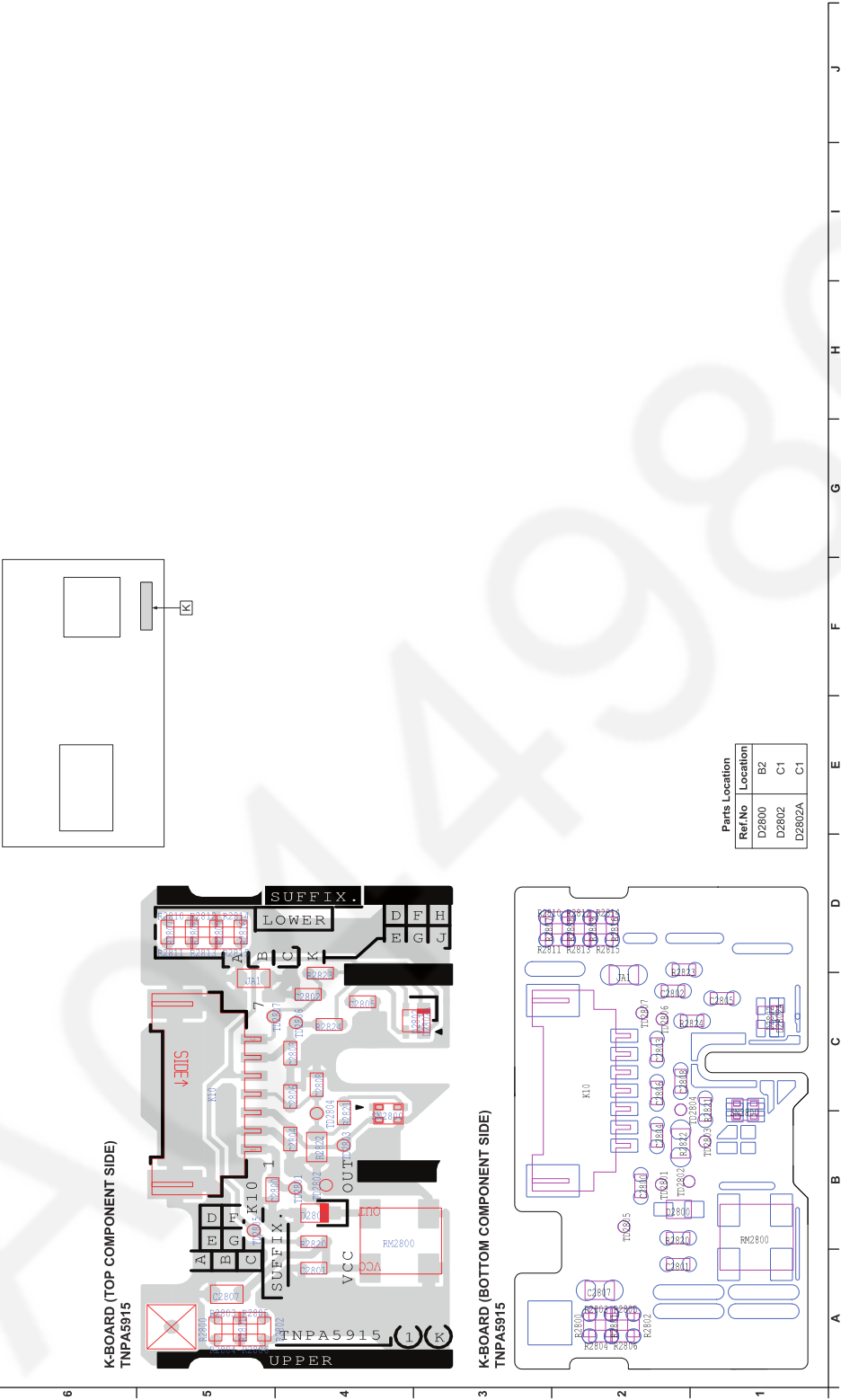


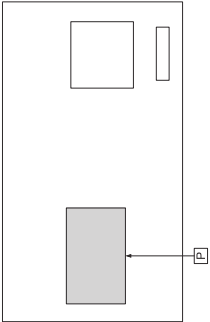
11 Printed Circuit Board

Model No. : TH-40A400S A-Board (Top Component Side)

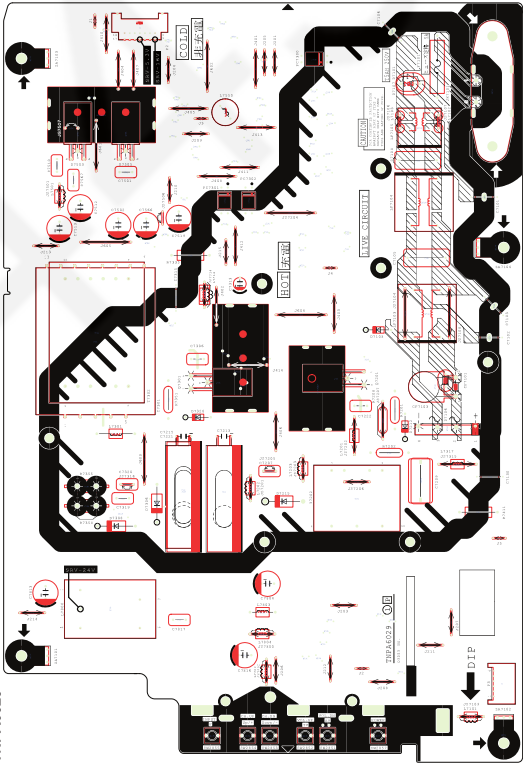




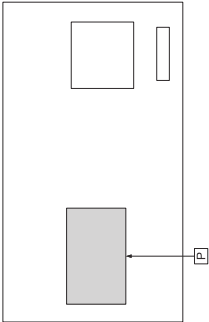




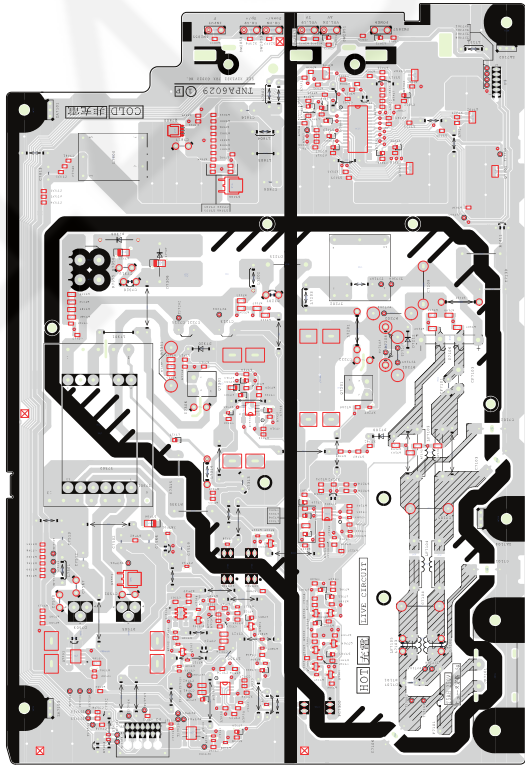
P-BOARD (TOP COMPONENT SIDE)
TNPAG029



Parts Location			
Ref.No	Location	Ref. No	Location
IC7501	E3	D7309	E2
		D7310	E2
		D7311	D2
		D7313	C2
		D7316	C3
		D7317	C3
		D7320	C3
		D7323	C2
		D7324	C2
		D7325	B3
		D7326	B3
		D7405	E2
		D7411	E2
		D7414	E3
		D7415	E3
		D7503	E4
		D7505	E3
		D7506	D3
		D7520	E3
		D7550	E3
		D7601	B2
		D7602	A1
		D7603	A2
		D7604	A2
		D7605	A2
		D7606	B2
		D7607	B2
		D7608	A2



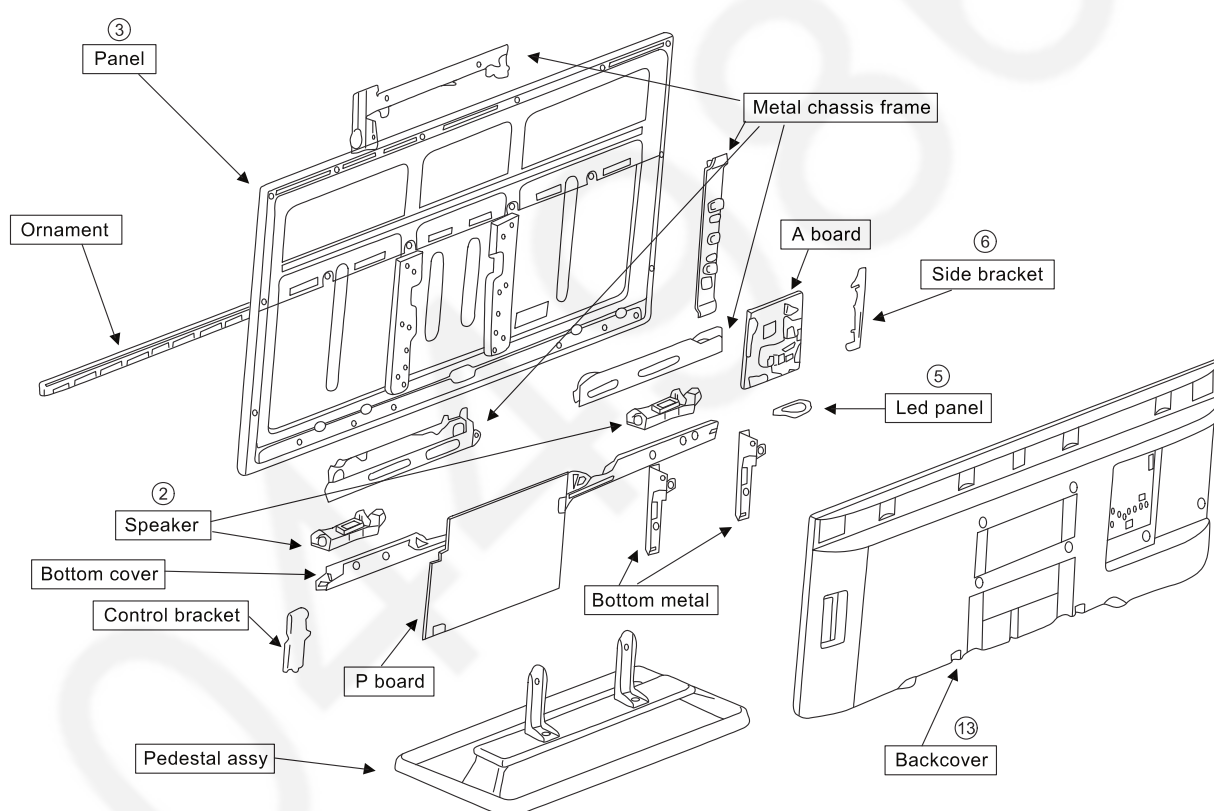
P-BOARD (BOTTOM COMPONENT SIDE)
TNPA6029



Parts Location			
Ref. No	Location	Ref. No	Location
IC7201	B2	D2851	E2
IC7301	C2	D2852	E2
IC7501	B3	D7101	A1
IC7502	B3	D7106	C1
IC7503	A3	D7107	A1
IC7800	E2	D7108	C2
		D7210	B2
		D7211	B2
		D7212	C1
		D7215	D2
		D7221	B2
		D7303	C3
		D7306	D3
		D7307	B2
		D7308	D3
		D7309	A2
		D7310	B2
		D7311	B2
		D7313	C3
		D7316	C3
		D7317	C3
		D7320	C3
		D7323	C3
		D7324	C2
		D7325	D3
		D7326	D3
		D7405	B2
		D7411	A2
		D7414	A3
		D7415	A3
		D7503	B4
		D7505	B3
		D7506	B3
		D7520	A3
		D7550	A3
		D7551	B3
		D7800	D3
		D7801	E2
		D7802	E1
		D7803	E2
		D7804	E2
		D7805	E2
		D7806	E1
		D7807	E2
		D7808	E2

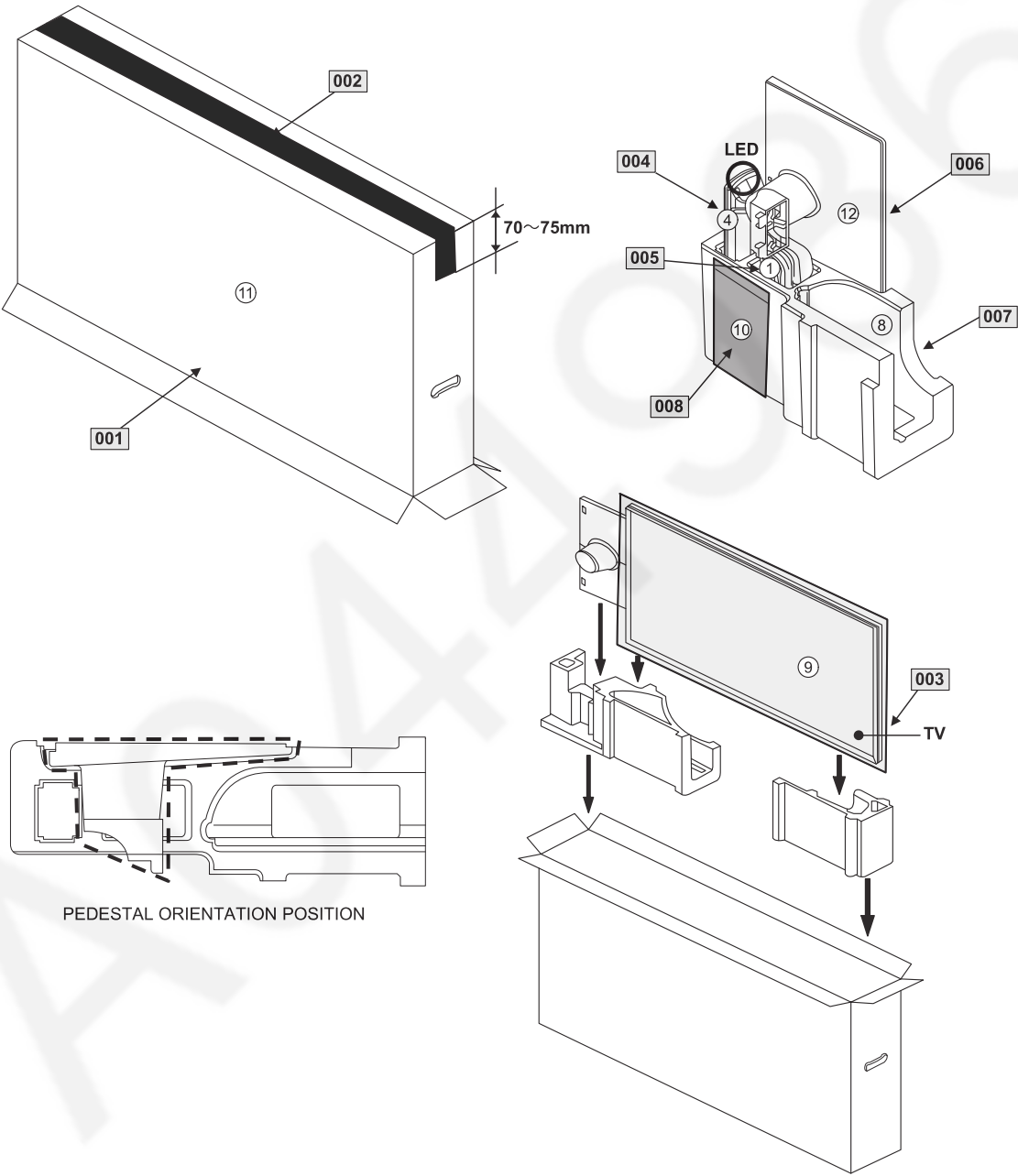
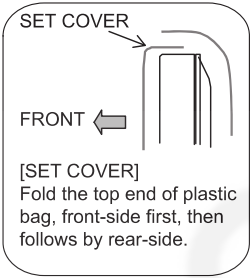
12 Exploded View and Replacement Parts List

Model No. : TH-40A400S Parts Location



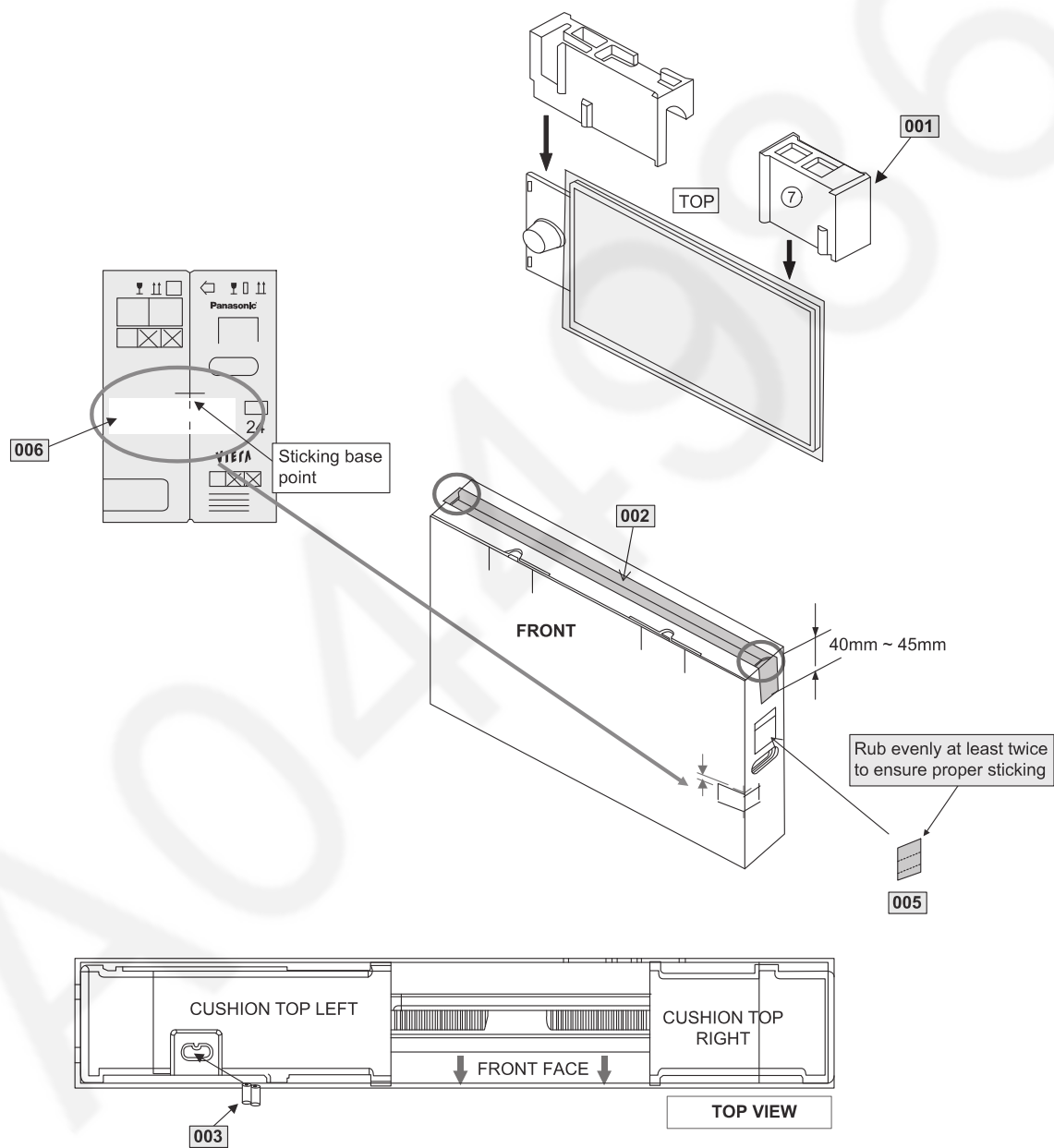
Model No. : TH-40A400S Packing Exploded View 1

No	Part No	Description	Qty	UOM
001	TPC4GA28902	PACKING CASE	1	PC
002	T5EJ28720	PP TAPE(BTM1.1/TOP1.1)	2.2	MT
003	TPE4GH093	SET COVER	1	PC
004	N2QAYB000818	REMOTE TRANSMITTER	1	PC
005	K2CQ2YY00122	AC CORD	1	PC
006	TBL5ZX05931	PEDESTAL ASSY	1	PC
007	TPD4GA04981	CUSHION BOTTOM	1	PC
008	TQZ4GB877	FAN BAG ASSY	1	PC



Model No. : TH-40A400S Packing Exploded View 2

No	Item	Description	Qty	UOM
001	TPD4GA04971	CUSHION TOP	1	PC
002	T5EJ28720	PP TAPE(BTM1.1/TOP1.1)	2.2	MT
003	R6UWC/2SKD	BATTERY	1	PC
004	TQD4G19062	BARCODE LABEL	1	PC
005	TQF4GK275	CARTON LABEL	1	PC



Model No. : TH-40A400S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITORS						
		C2008	F1G1E103A172	C 0.01UF, 25V		
		C2014	F1H1E104A161	C 0.1UF, 25V		
		C2015	F1K1V106A010	C 10UF, 25V		
		C2016	F1G1C104A146	C 0.1UF 16V		
		C2017	F1G1C103A173	C 0.01UF, 16V		
		C2023	F1G1H102A946	C 1000PF, 50V		
		C2024	F1G1H102A946	C 1000PF, 50V		
		C2025	F1G1H102A946	C 1000PF, 50V		
		C2026	F1G1H102A946	C 1000PF, 50V		
		C2027	F1G1H102A946	C 1000PF, 50V		
		C2028	F1G1H101A948	C 100PF, 50V		
		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	F1J1H104A902	C 0.1UF, 50V		
		C2852	F1J1H104A902	C 0.1UF, 50V		
		C3093	F1G1A473A069	C0.047UF, 10V		
		C3095	F1G1A473A069	C0.047UF, 10V		
		C3097	F1G1A473A069	C0.047UF, 10V		
		C3108	F1G1H100A948	C 10PF, 50V		
		C3109	F1G1H100A948	C 10PF, 50V		
		C3110	F1G1H100A948	C 10PF, 50V		
		C3169	F1J1A106A043	C 10UF, 10V		
		C3170	F1J1A106A043	C 10UF, 10V		
		C3173	F1G1H152A946	C 1500PF, 50V		
		C3174	F1G1A473A069	C0.047UF, 10V		
		C4010	F1H1H103B047	C 0.01UF, 50V		
		C4011	F1H1H103B047	C 0.01UF, 50V		
		C4012	F1J1C475A225	C 4.7UF, 10V		
		C4300	F1K1V106A010	C 10UF, 25V		
		C4302	F1G1C104A146	C 0.1UF 16V		
		C4303	F1G1C223A146	C 0.022UF, 16V		
		C4305	F1G1E332A144	C 3300PF, 25V		
		C4306	F1K1V106A010	C 10UF, 25V		
		C4307	F1K1V106A010	C 10UF, 25V		
		C4308	F1K1V106A010	C 10UF, 25V		
		C4502	F1G1C104A146	C 0.1UF 16V		
		C4503	F1G1H101A948	C 100PF, 50V		
		C4900	F1K1V106A010	C 10UF, 25V		
		C4901	F1K1V106A010	C 10UF, 25V		
		C4902	F1J1E105A287	C 1UF, 25V		
		C4903	F1K1V106A010	C 10UF, 25V		
		C4904	F1J1E105A287	C 1UF, 25V		
		C4905	F1H1C105A167	C 1UF, 10V		
		C4906	F1K1V106A010	C 10UF, 25V		
		C4907	F1J1E105A287	C 1UF, 25V		
		C4908	F1K1V106A010	C 10UF, 25V		
		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		
		C5028	F1G1C104A146	C 0.1UF 16V		
		C5170	F1G1A224A069	C 0.22UF, 25V		
		C5614	F1J1A106A043	C 10UF, 10V		

Model No. : TH-40A400S Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5615	F1J1A106A043	C 10UF, 10V		
		C5616	F1G1C104A146	C 0.1UF 16V		
		C5624	F1J1A106A043	C 10UF, 10V		
		C5625	F1G1C104A146	C 0.1UF 16V		
		C5717	F1J1A106A043	C 10UF, 10V		
		C5718	F1J1A106A043	C 10UF, 10V		
		C6704	F1J1A106A043	C 10UF, 10V		
		C6705	F1G1C473A146	C 0.047UF, 16V		
		C6707	F1G1C104A146	C 0.1UF 16V		
		C6708	F1J1A106A043	C 10UF, 10V		
		C6710	F1G1C104A146	C 0.1UF 16V		
		C6712	F1G1A105A047	C 1UF 10V		
		C6713	F1G1A105A047	C 1UF 10V		
		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		
		C6732	F1G1C473A146	C 0.047UF, 16V		
		C6736	F1G1H101A948	C 100PF, 50V		
		C6737	F1G1H101A948	C 100PF, 50V		
		C6753	F1G1H5R0A831	C 5PF, 50V		
		C6754	F1G1H5R0A831	C 5PF, 50V		
		C6768	F1G1H102A946	C 1000PF, 50V		
		C6769	F1G1E103A172	C 0.01UF, 50V		
		C6770	F1G1E103A172	C 0.01UF, 50V		
		C6773	F1G1H102A946	C 1000PF, 50V		
		C6774	F1G1C104A146	C 0.1UF 16V		
		C6775	F1G1C104A146	C 0.1UF 16V		
		C6777	F1G0J105A049	C 0.1UF, 16V		
		C6781	F1G1H331A830	C 330PF, 50V		
		C6782	F1G1H121A834	C 120PF, 50V		
		C6783	F1G1H121A834	C 120PF, 50V		
		C6788	F1G1H101A948	C 100PF, 50V		
		C6789	F1G1H181A834	C 180PF, 50V		
		C6790	F1G1H181A834	C 180PF, 50V		
		C6791	F1G1H102A834	C 1000PF 50V		
		C6793	F1G1H102A834	C 1000PF 50V		
		C6795	F1G1C104A146	C 0.1UF 16V		
		C6797	F1G1H102A946	C 1000PF, 50V		
		C6798	F1G1H102A946	C 1000PF, 50V		
		C6799	F1H1H181B052	C 180PF, 50V		
	⚠	C7102	F1AAF471A019	C 470PF, 240V		
	⚠	C7103	F1AAF471A019	C 470PF, 240V		
	⚠	C7104	F0CAF2240010	C 0.22UF, 250V		
	⚠	C7105	F0CAF2240010	C 0.22UF, 250V		
	⚠	C7130	F1AAF471A019	C 470PF, 240V		
	⚠	C7213	F2A2W650A304	C 65UF, 450V		
	⚠	C7215	F2A2W650A304	C 65UF, 450V		
		C7306	F1A3A221A060	C 220PF 1KV		
		C7310	F1J1H103A900	C 0.01UF, 50V		
		C7311	F1J1H102A909	C 1000pF, 50V		
		C7312	F1J1H105A919	C 1UF, 50V		
		C7313	F2A1H100A122	E 10UF, 50V		
		C7314	F1H1H102B052	C 1000PF, 50V		
		C7315	F1AAF471A019	C 470PF, 240V		
		C7317	F1J2E1030004	C 0.1PF, J,250V		
		C7318	F1J2E1030004	C 0.1PF, J,250V		
		C7319	F1A3A221A060	C 220PF 1KV		
		C7320	F1A3A221A060	C 220PF 1KV		
		C7434	F1J1C475A225	C 4.7UF, 10V		
		C7501	F1A3A221A060	C 220PF 1KV		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7502	F2A1J1210012	C 120UF, 63V		
		C7503	F1H1H223B047	C 0.022UF, 50V		
		C7504	F1J1E105A287	C 1UF, 25V		
		C7505	F1J1E105A287	C 1UF, 25V		
		C7510	F1A3A221A060	C 220PF 1KV		
		C7512	F2A1E4710124	C 470UF, 25V		
		C7513	F2A1E4710124	C 470UF, 25V		
		C7523	F1J1H104A902	C 0.1UF, 50V		
		C7566	F2A1J1210012	C 120UF, 63V		
		C7800	F1J1H103A900	C 0.01UF, 50V		
		C7801	F1J1H474A918	C 0.47UF, 50V		
		C7802	F1J1E105A287	C 1UF, 25V		
		C7803	F1J1E105A287	C 1UF, 25V		
		C7804	F2A1J1210012	C 120UF, 63V		
		C7805	F1J1H103A900	C 0.01UF, 50V		
		C7806	F1J1H104A902	C 0.1UF, 50V		
		C7807	F1J2E1030004	C 0.1PF, J,250V		
		C7809	F1J1H102A909	C 1000pF, 50V		
		C7810	F1J1H102A909	C 1000pF, 50V		
		C7811	F1J1H101A906	C 100PF, 50V		
		C7812	F1J1H101A906	C 100PF, 50V		
		C7813	F2A1J1210012	C 120UF, 63V		
		C7814	F1J1H101A906	C 100PF, 50V		
		C7815	F1J1H101A906	C 100PF, 50V		
		C8095	F1K1V106A010	C 10UF, 25V		
		C8097	F1G1C104A146	C 0.1UF 16V		
		C8098	F1G1C103A173	C 0.01UF, 16V		
		C8100	F1G1E332A144	C 3300PF, 25V		
		C8101	F1J1A106A043	C 10UF, 10V		
		C8102	F1J1A106A043	C 10UF, 10V		
		C8103	F1H0J4750004	C 4.7UF, 16V		
		C8104	F1J1A106A043	C 10UF, 10V		
		C8105	F1K1V106A010	C 10UF, 25V		
		C8106	F1J1A106A043	C 10UF, 10V		
		C8108	F1G1C104A146	C 0.1UF 16V		
		C8109	F1G1C103A173	C 0.01UF, 16V		
		C8111	F1G1E332A144	C 3300PF, 25V		
		C8112	F1J0J2260004	C 22 UF 6.3 V		
		C8113	F1G1C103A173	C 0.01UF, 16V		
		C8115	F1H1C105A167	C 1UF, 10V		
		C8116	F1J0J2260004	C 22 UF 6.3 V		
		C8117	F1G1C104A146	C 0.1UF 16V		
		C8118	F1J0J2260004	C 22 UF 6.3 V		
		C8121	F1K1V106A010	C 10UF, 25V		
		C8123	F1G1C104A146	C 0.1UF 16V		
		C8124	F1G1C103A173	C 0.01UF, 16V		
		C8126	F1G1E332A144	C 3300PF, 25V		
		C8127	F1H1C105A167	C 1UF, 10V		
		C8128	F1G1C104A146	C 0.1UF 16V		
		C8129	F1J0G2260001	C 22 UF 4 V		
		C8130	F1J0G2260001	C 22 UF 4 V		
		C8134	F1G1E472A144	C 4700pF 25V		
		C8135	F1K1V106A010	C 10UF, 25V		
		C8137	F1G1C104A146	C 0.1UF 16V		
		C8138	F1G1C103A173	C 0.01UF, 16V		
		C8140	F1G1H270A834	C 27PF, 50V		
		C8141	F1J0G2260001	C 22 UF 4 V		
		C8142	F1G1H270A834	C 27PF, 50V		
		C8143	F1J0G2260001	C 22 UF 4 V		
		C8146	F1G1A105A047	C 1UF 10V		
		C8147	F1G1A105A047	C 1UF 10V		
		C8148	F1H1C105A167	C 1UF, 10V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8151	F1H1H103B047	C 0.01UF, 50V		
		C8152	F1G1A105A047	C 1UF 10V		
		C8153	F1G1A105A047	C 1UF 10V		
		C8162	F1G1C104A146	C 0.1UF 16V		
		C8163	F1G1C103A173	C 0.01UF, 16V		
		C8164	F1J1A106A043	C 10UF, 10V		
		C8165	F1G1C104A146	C 0.1UF 16V		
		C8166	F1G1C104A146	C 0.1UF 16V		
		C8167	F1G1C104A146	C 0.1UF 16V		
		C8168	F1H1C105A167	C 1UF, 10V		
		C8169	F1G1C104A146	C 0.1UF 16V		
		C8170	F1G1C104A146	C 0.1UF 16V		
		C8171	F1G1C104A146	C 0.1UF 16V		
		C8172	F1G1A105A047	C 1UF 10V		
		C8173	F1G1C104A146	C 0.1UF 16V		
		C8174	F1H0J4750004	C 4.7UF, 16V		
		C8176	F1G1A105A047	C 1UF 10V		
		C8177	F1G1C104A146	C 0.1UF 16V		
		C8178	F1G1C104A146	C 0.1UF 16V		
		C8179	F1G1C104A146	C 0.1UF 16V		
		C8180	F1J1A106A043	C 10UF, 10V		
		C8184	F1J0G2260001	C 22 UF 4 V		
		C8186	F1G1C104A146	C 0.1UF 16V		
		C8187	F1G1C104A146	C 0.1UF 16V		
		C8188	F1G1C104A146	C 0.1UF 16V		
		C8189	F1G1A105A047	C 1UF 10V		
		C8191	F1G1C104A146	C 0.1UF 16V		
		C8192	F1G1C104A146	C 0.1UF 16V		
		C8193	F1G1A105A047	C 1UF 10V		
		C8196	F1H1C105A167	C 1UF, 10V		
		C8850	F1H0J4750004	C 4.7UF, 16V		
		C8900	F1G1C104A146	C 0.1UF 16V		
		C8901	F1G1C104A146	C 0.1UF 16V		
DIODES						
		D1001	DZ2J140M0L	DIODE		
		D1002	DZ2J140M0L	DIODE		
		D1003	DZ2J140M0L	DIODE		
		D1004	DZ2J140M0L	DIODE		
		D1005	DZ2J140M0L	DIODE		
		D1007	DZ2J140M0L	DIODE		
		D2006	D4ED11200003	DIODE		
		D2008	D4ED11200003	DIODE		
		D2800	DZ2J056M0L	DIODE		
		D2802	B3AGB0000060	LED		
		D2851	DZ2J068M0L	DIODE		
		D2852	DZ2J068M0L	DIODE		
		D3101	K7AAAY000016	DIODE		
		D3103	D4EDY5R5A038	DIODE		
		D3104	D4EDY5R5A038	DIODE		
		D5007	DA2J10100L	DIODE		
		D5009	DZ2J068M0L	DIODE		
		D5013	B0JCED000012	DIODE		
		D5170	DZ2J200M0L	DIODE		
		D5171	DA2J10100L	DIODE		
		D5172	DZ2J068M0L	DIODE		
		D5173	B0ADCK000001	DIODE		
		D5174	DZ2J068M0L	DIODE		
		D5175	B0ADCK000001	DIODE		
		D6750	J0ZZB0000175	DIODE		
		D6752	B0ZBZ0000226	DIODE		
		D7101	D4EAY621A168	DIODE		
		D7106	B0EBNT000030	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D7108	B0HAGQ000001	DIODE		
		D7307	DZ2J068M0L	DIODE		
		D7313	DB2J41100L	DIODE		
		D7317	DA2JF2300L	DIODE		
		D7320	B0JAME000126	DIODE		
		D7323	DB2J41100L	DIODE		
		D7325	B0ECKT000012	DIODE		
		D7326	B0ECKT000012	DIODE		
		D7411	DA2J10100L	DIODE		
		D7503	B0JBSM000007	DIODE		
		D7505	B0FBCN000016	DIODE		
		D7800	B0JDSL000013	DIODE		
		D7801	DZ2J360M0L	DIODE		
		D7802	DZ2J360M0L	DIODE		
		D7803	DB2J41100L	DIODE		
		D7804	DA2J10100L	DIODE		
		D7806	DZ2J360M0L	DIODE		
		D7807	DZ2J360M0L	DIODE		
		D7808	DB2J41100L	DIODE		
		D8001	B0JCED000012	DIODE		
		D8002	B0JCED000012	DIODE		
INTEGRATED CIRCUITS						
		IC4300	C0DBAYY01644	IC		
		IC4900	C1AB00003984	IC		
		IC5602	C0DBZYY00541	IC		
		IC5704	C0DBEYY00102	IC		
		IC6750	C1AB00004172	IC		
		IC7301	C0DBBY000065	IC		
		IC7501	C0DBZYY00545	IC		
		IC7502	C0DBGYY03054	IC		
		IC7800	C1ZBZ0004569	IC		
		IC8001	C1AB00004200	IC		
		IC8002	C0DBAYY01300	IC		
		IC8003	C0DBAYY01644	IC		
		IC8004	C0DBAYY01644	IC		
		IC8005	C0DBAYY01644	IC		
		IC8008	C0DBGYY00887	IC		
		IC8900A	TVR4G282-AN	ROM VERSION IC		
		IC8902	C3EBJY000066	IC		
COIL						
		L2000	J0JYC0000328	COIL		
		L4300	G1C220MA0445	INDUCTOR		
		L4901	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		
		L4905	J0JHC0000078	COIL		
		L4906	J0JHC0000078	COIL		
		L4907	J0JHC0000078	COIL		
		L4908	J0JHC0000078	COIL		
		L5601	J0JYC0000464	BEAD CORE		
		L6704	J0JYC0000464	BEAD CORE		
		L6706	J0JYC0000464	BEAD CORE		
		L6761	J0JYC0000464	BEAD CORE		
		L6762	J0JYC0000464	BEAD CORE		
		L6763	G1CR27JA0097	COIL		
		L6765	G1C82NJ00010	COIL		
		L6772	G1CR27JA0097	COIL		
		L6773	G1CR27JA0097	COIL		
		L6774	G1CR27JA0097	COIL		
		L6776	G1CR27JA0097	COIL		
		L6777	G1CR22JA0097	COIL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L6778	G1CR22JA0097	COIL		
		L7301	J0JYA0000035	BEAD CORE		
		L7314	J0JYA0000035	BEAD CORE		
		L7316	J0JYC0000344	COIL		
		L7317	J0JYA0000035	BEAD CORE		
		L7501	J0JYA0000035	BEAD CORE		
		L7800	G0C480Z00002	COIL		
		L7801	J0JYC0000344	COIL		
		L7802	J0JYA0000035	BEAD CORE		
		L7803	J0JYA0000035	BEAD CORE		
		L7804	J0JYA0000035	BEAD CORE		
		L8008	J0JYC0000464	BEAD CORE		
		L8048	G1C4R7ZA0311	INDUCTOR		
		L8049	G1C3R3MA0464	INDUCTOR		
		L8050	G1C150MA0533	INDUCTOR		
		L8051	G1C100MA0533	COIL		
TRANSISTOR						
		Q2004	B1ABCF000231	TRANSISTOR		
		Q2005	B1ABCF000231	TRANSISTOR		
		Q2007	B1ABCF000231	TRANSISTOR		
		Q4500	B1ABCF000231	TRANSISTOR		
		Q4501	B1ABCF000231	TRANSISTOR		
		Q4504	B1ABCF000231	TRANSISTOR		
		Q4505	B1ABCF000231	TRANSISTOR		
		Q5005	B1ADCE000022	TRANSISTOR		
		Q5006	B1ABCF000231	TRANSISTOR		
		Q5007	B1ABCF000231	TRANSISTOR		
		Q5009	B1ADCE000022	TRANSISTOR		
		Q5010	B1ADCE000022	TRANSISTOR		
		Q5011	B1ABCF000231	TRANSISTOR		
		Q5170	B1ABCF000231	TRANSISTOR		
		Q5171	B1ABCF000231	TRANSISTOR		
		Q5172	B1ABCF000231	TRANSISTOR		
		Q7301	B1CERR000067	TRANSISTOR		
		Q7302	B1ABCF000231	TRANSISTOR		
		Q7401	B1ABCF000231	TRANSISTOR		
		Q7502	B1CHRE000035	TRANSISTOR		
		Q7800	B1CFRL000042	TRANSISTOR		
		Q7802	B1CFML000007	TRANSISTOR		
		Q7803	B1CFML000007	TRANSISTOR		
		Q7805	B1CFML000007	TRANSISTOR		
		Q7806	B1CFML000007	TRANSISTOR		
		Q8002	B1CHPD000013	TRANSISTOR		
		Q8003	B1ABCF000231	TRANSISTOR		
RESISTORS						
		R0902	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0903	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0908	D0GAR00J0005	M 0 OHM, 1/16W		
		R0909	D0GAR00J0005	M 0 OHM, 1/16W		
		R0910	D0GAR00J0005	M 0 OHM, 1/16W		
		R0911	D0GAR00J0005	M 0 OHM, 1/16W		
		R0916	D0GAR00J0005	M 0 OHM, 1/16W		
		R0917	D0GAR00J0005	M 0 OHM, 1/16W		
		R0924	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0925	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0926	D0GA473JA039	M 47KOHM, J,1/16W		
		R0927	D0GA680JA023	M 68 OHM, J,1/16W		
		R0928	D0GA680JA023	M 68 OHM, J,1/16W		
		R0929	D0GA102JA039	M 1KOHM, J, 1/16W		
		R0930	D0GA102JA039	M 1KOHM, J, 1/16W		
		R0933	D1H82724A042	M 2.7KOHM, J.1/16W		
		R0938	D0GA680JA023	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R0939	D0GA680JA023	M 68 OHM, J,1/16W		
		R0944	D1H86804A042	M 68 OHM, J,1/16W		
		R0945	D1H86804A042	M 68 OHM, J,1/16W		
		R1000	D0GA101JA039	M 100OHM, J, 1/16W		
		R2011	D0GA102JA039	M 1KOHM, J, 1/16W		
		R2012	D0GA473JA039	M 47KOHM, J,1/16W		
		R2018	D0GA680JA023	M 68 OHM, J,1/16W		
		R2027	D0GA103JA039	M 10KOHM,F,1/16W		
		R2028	D0GA102JA039	M 1KOHM, J, 1/16W		
		R2029	D0GAR00J0005	M 0 OHM, 1/16W		
		R2030	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R2031	D0GA473JA039	M 47KOHM, J,1/16W		
		R2032	D0GA473JA039	M 47KOHM, J,1/16W		
		R2033	D1BA1002A023	M 10KOHM,F,1/16W		
		R2034	D0GA102JA039	M 1KOHM, J, 1/16W		
		R2035	D1BA4702A023	M 47 KOHM,F.1/16 W		
		R2045	D0GA183JA023	M 18K OHM J.1/16W		
		R2046	D0GB101JA065	M 100 OHM,J,1/10W		
		R2047	D0GB153JA065	M 15K OHM J 1/10W		
		R2049	D0GA103JA039	M 10KOHM,F,1/16W		
		R2050	D0GA473JA039	M 47KOHM, J,1/16W		
		R2052	D0GA223JA023	M 22K OHM J 1/16W		
		R2053	D0GA473JA039	M 47KOHM, J,1/16W		
		R2800	D0GBR00J0004	M 0 OHM J 1/10W		
		R2808	D0GBR00J0004	M 0 OHM J 1/10W		
		R2820	D0GB470JA065	M 47 OHM,J,1/10W		
		R2821	D0GBR00J0004	M 0 OHM J 1/10W		
		R2822	D0GD822JA052	M 8.2KOHM,J,1/8W		
		R2823	D1BB1821A143	M 1.82KOHM, J, 1/16W		
		R2824	D1BB6800A074	M 68 OHM, J,1/16W		
		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		
		R3099	D0GA223JA023	M 22K OHM J 1/16W		
		R3119	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R3122	D1BD75R0A204	M 75 OHM, J,0.063W		
		R3124	D1BD75R0A204	M 75 OHM, J,0.063W		
		R3192	D0GA101JA039	M 100OHM, J, 1/16W		
		R3193	D0GA101JA039	M 100OHM, J, 1/16W		
		R3194	D1BD75R0A204	M 75 OHM, J,0.063W		
		R3196	D0GA101JA039	M 100OHM, J, 1/16W		
		R3201	D0GA473JA023	M 47KOHM, J,1/16W		
		R3202	D0GA473JA023	M 47KOHM, J,1/16W		
		R3205	D0GA101JA039	M 100OHM, J, 1/16W		
		R3243	D0GA220JA023	M22 OHM, J.1/16 W		
		R4050	D1H8R0040016	M 0 OHM, 1/16W		
		R4051	D1H8R0040016	M 0 OHM, 1/16W		
		R4052	D1H8R0040016	M 0 OHM, 1/16W		
		R4053	D1H8R0040016	M 0 OHM, 1/16W		
		R4054	D1H8R0040016	M 0 OHM, 1/16W		
		R4057	D0GA101JA039	M 100OHM, J, 1/16W		
		R4060	D0GAR00J0005	M 0 OHM, 1/16W		
		R4150	D0GAR00J0005	M 0 OHM, 1/16W		
		R4300	D1BA4702A023	M 47 KOHM,F.1/16 W		
		R4301	D1BA3601A023	M 3.6KOHM,F 1/16 W		
		R4302	D1BA5102A023	M 51 KOHM, J,1/16W		
		R4303	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4500	D0GA750JA023	M 75 OHM, J,0.063W		
		R4501	D0GA750JA023	M 75 OHM, J,0.063W		
		R4503	D1H84734A042	M 47KOHM, J,1/16W		
		R4504	D1H86804A042	M 68 OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4513	D0GA820JA023	M 82 OHM, J,1/16W		
		R4514	D0GA220JA023	M22 OHM, J.1/16 W		
		R4515	D0GA473JA039	M 47KOHM, J,1/16W		
		R4516	D0GA473JA039	M 47KOHM, J,1/16W		
		R4517	D0GA473JA039	M 47KOHM, J,1/16W		
		R4518	D0GA104JA039	M 100KOHM,J,1/8W		
		R4519	D0GA104JA039	M 100KOHM,J,1/8W		
		R4520	D0GA473JA039	M 47KOHM, J,1/16W		
		R4521	D0GA911JA023	M 910OHM, J, 1/16W		
		R4522	D0GA911JA023	M 910OHM, J, 1/16W		
		R4523	D0GA104JA039	M 100KOHM,J,1/8W		
		R4524	D0GA181JA023	M 180 OHM, J,1/16W		
		R4900	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4901	D1H86804A042	M 68 OHM, J,1/16W		
		R4903	D1H8R0040016	M 0 OHM, 1/16W		
		R4907	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4915	D0GA563JA023	M 56KOHM, J,0.063W		
		R4917	D0GAR00J0005	M 0 OHM, 1/16W		
		R4918	D0GAR00J0005	M 0 OHM, 1/16W		
		R4919	D0GA153JA023	M 15K OHM J 1/16W		
		R4956	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4963	D0GA473JA039	M 47KOHM, J,1/16W		
		R4964	D0GA303JA023	M 30K OHM J 0.063W		
		R4983	D0GA103JA039	M 10KOHM,F,1/16W		
		R5050	D0GA473JA039	M 47KOHM, J,1/16W		
		R5051	D0GAR00J0005	M 0 OHM, 1/16W		
		R5078	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5079	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R5080	D0GA473JA039	M 47KOHM, J,1/16W		
		R5081	D0GA103JA039	M 10KOHM,F,1/16W		
		R5082	D0GA104JA039	M 100KOHM,J,1/8W		
		R5084	D0GA473JA039	M 47KOHM, J,1/16W		
		R5085	D0GA103JA039	M 10KOHM,F,1/16W		
		R5086	D0GAR00J0005	M 0 OHM, 1/16W		
		R5087	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5088	D1BA1602A023	M 16KOHM, J, 1/16W		
		R5090	D0GA473JA039	M 47KOHM, J,1/16W		
		R5091	D0GA102JA039	M 1KOHM, J, 1/16W		
		R5092	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R5093	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R5095	D0GA473JA039	M 47KOHM, J,1/16W		
		R5096	D0GA473JA039	M 47KOHM, J,1/16W		
		R5097	D0GA103JA039	M 10KOHM,F,1/16W		
		R5098	D0GA473JA039	M 47KOHM, J,1/16W		
		R5099	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R5170	D0GA103JA039	M 10KOHM,F,1/16W		
		R5171	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R5173	D0GA104JA039	M 100KOHM,J,1/8W		
		R5175	D0GA473JA039	M 47KOHM, J,1/16W		
		R5176	D0GA473JA039	M 47KOHM, J,1/16W		
		R5177	D0GA473JA039	M 47KOHM, J,1/16W		
		R5178	D0GA473JA039	M 47KOHM, J,1/16W		
		R5606	D0GA103JA039	M 10KOHM,F,1/16W		
		R5607	D0GA103JA039	M 10KOHM,F,1/16W		
		R5609	D1H8R0040016	M 0 OHM, 1/16W		
		R5610	D1BA1822A023	M 18.2KOHM,F.1/16 W		
		R5731	D1BA1200A023	M 120 OHM,F.1/16 W		
		R5732	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R6725	D0GAR00J0005	M 0 OHM, 1/16W		
		R6728	D0GAR00J0005	M 0 OHM, 1/16W		
		R6729	D0GAR00J0005	M 0 OHM, 1/16W		
		R6730	D0GA103JA039	M 10KOHM,F,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R6743	D0GA102JA039	M 1KOHM, J, 1/16W		
		R6744	D0GA102JA039	M 1KOHM, J, 1/16W		
		R6750	D0GA101JA039	M 100OHM, J, 1/16W		
		R6753	D0GA101JA039	M 100OHM, J, 1/16W		
		R6757	D0GA101JA039	M 100OHM, J, 1/16W		
		R6758	D0GA101JA039	M 100OHM, J, 1/16W		
		R6759	D0GA102JA039	M 1KOHM, J, 1/16W		
		R6760	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R6768	D0GA681JA023	M680 OHM, J,1/16W		
		R6770	D0GA103JA039	M 10KOHM, F,1/16W		
		R7101	D0GF105JA048	M 1M OHM. 1/4W		
		R7102	D0GF105JA048	M 1M OHM. 1/4W		
		R7103	D0GF105JA048	M 1M OHM. 1/4W		
		R7104	D0GF105JA048	M 1M OHM. 1/4W		
		R7303	D0GD752JA052	M 7.5KOHM, J, 1/16W		
		R7304	D0GD183JA052	M 18KOHM, J,1/8W		
		R7313	D0GD100JA059	M 10 OHM, J,1/4W		
		R7314	D0GD681JA052	M 680 OHM, J,1/8W		
		R7317	D0GD680JA052	M 68 OHM, J,1/8W		
		R7318	D0GD471JA052	M 470 OHM, J,1/8W		
		R7319	D0GB393JA065	M 39K OHM J 1/10W		
		R7320	D0GD102JA052	M 1.0KOHM, J,1/8W		
		R7325	D0GD4R7JA059	M 4.7 OHM, J,1/4W		
		R7329	D0GDR00J0004	M 0 OHM, 1/8W		
		R7335	D0B1106JA033	M 10MOHM J 1W		
		R7342	D0GD182JA052	M 1.8KOHM, J, 1/16W		
		R7343	D0GD182JA052	M 1.8KOHM, J, 1/16W		
		R7344	D0GD182JA052	M 1.8KOHM, J, 1/16W		
		R7346	D0GF824JA047	M 820KOHM, J, 1/16W		
		R7347	D0GF824JA047	M 820KOHM, J, 1/16W		
		R7351	ERX1SJR27	M 0.27 OHM, J, 1W		
		R7354	D0C2101JA140	M 100OHM, J, 1/16W		
		R7355	D0C2101JA140	M 100OHM, J, 1/16W		
		R7406	D0GB222JA065	M 2.2KOHM, J,1/10W		
		R7407	D0GB104JA065	M 100KOHM J 1/10W		
		R7409	D0GBR00J0004	M 0 OHM J 1/10W		
		R7503	D0GB153JA065	M 15K OHM J 1/10W		
		R7504	D0GB153JA065	M 15K OHM J 1/10W		
		R7507	D0GB124JA065	M 120 OHM, F,1/16 W		
		R7515	D0GB183JA065	M 18KOHM, J,1/10W		
		R7516	D0GD472JA052	M 4.7KOHM, J,1/8W		
		R7517	D0GD222JA052	M 2.2KOHM, J,1/8W		
		R7519	D0GD102JA052	M 1.0KOHM, J,1/8W		
		R7520	D1BD3301A066	M 3.3KOHM, F,1/8W		
		R7521	D1BD1692A066	M 16.9KOHM, F,1/8W		
		R7523	D0GD473JA052	M 47KOHM, J,1/8W		
		R7527	D0GDR00J0004	M 0 OHM, 1/8W		
		R7532	D0GBR00J0004	M 0 OHM J 1/10W		
		R7584	D0GDR00J0004	M 0 OHM, 1/8W		
		R7802	D0GD1R0JA052	M 1 OHM, J,1/8W		
		R7803	D0GD1R0JA052	M 1 OHM, J,1/8W		
		R7804	D0GD1R0JA052	M 1 OHM, J,1/8W		
		R7805	D0GD1R0JA052	M 1 OHM, J,1/8W		
		R7806	D0GD1R0JA052	M 1 OHM, J,1/8W		
		R7809	D0GD100JA052	M 10 OHM, J,1/8W		
		R7811	D0GD473JA052	M 47KOHM, J,1/8W		
		R7812	D0GD102JA052	M 1.0KOHM, J,1/8W		
		R7813	D0GD102JA052	M 1.0KOHM, J,1/8W		
		R7814	D0GD334JA052	M 330KOHM, J,1/8W		
		R7815	D0GD103JA052	M 10KOHM, J,1/8W		
		R7816	D1BD2201A066	M 2.2KOHM, F,1/8W		
		R7817	D1BD1003A066	M 100KOHM, F,1/8 W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7818	D1BD1503A066	M 150KOHM,F,1/8W		
		R7819	D0GD152JA052	M 1.5KOHM,J,1/8W		
		R7820	D0GD1R0JA052	M 1 OHM,J,1/8W		
		R7823	D0GD473JA052	M 47KOHM,J,1/8W		
		R7824	D0GD183JA052	M 18KOHM,J,1/8W		
		R7825	D1BD1502A066	M 15KOHM,F,1/8W		
		R7826	D1BD1R00A066	M 1OHM ,J, 1/16W		
		R7827	D0GD473JA052	M 47KOHM,J,1/8W		
		R7828	D1BD1R00A066	M 1OHM ,J, 1/16W		
		R7829	D0GD473JA052	M 47KOHM,J,1/8W		
		R7833	D0GDR00J0004	M 0 OHM, 1/8W		
		R7834	D0GD220JA052	M 22 OHM,J,1/8W		
		R7835	D1BD1R00A066	M 1OHM ,J, 1/16W		
		R7836	D0GD473JA052	M 47KOHM,J,1/8W		
		R7837	D1BD1R00A066	M 1OHM ,J, 1/16W		
		R7838	D0GD473JA052	M 47KOHM,J,1/8W		
		R7839	D0GD104JA052	M 100KOHM,J,1/8W		
		R7840	D0GD104JA052	M 100KOHM,J,1/8W		
		R7841	D0GD103JA052	M 10KOHM,J,1/8W		
		R8099	D1BA2002A023	M 200KOHM ,F, 1/16W		
		R8100	D1BA5601A023	M 5.6KOHM ,F, 1/16W		
		R8101	D0GA510JA023	M 51 OHM, J,1/16W		
		R8102	D0GA510JA023	M 51 OHM, J,1/16W		
		R8103	D1BA3002A023	M 30KOHM,F. 1/16 W		
		R8104	D1BA2400A023	M 240 OHM,F,1/16 W		
		R8105	D1BA1302A023	M 13KOHM,F,1/16W		
		R8106	D1BA1502A023	M 15K OHM J 1/16W		
		R8107	D1BA4702A023	M 47 KOHM,F,1/16 W		
		R8113	D1BA4701A023	M 4.7KOHM,F 1/16 W		
		R8114	D1BA2002A023	M 200KOHM ,F, 1/16W		
		R8115	D1BA1802A023	M 18KOHM,F. 1/16 W		
		R8116	D1BA3001A023	M 3KOHM,F,1/16W		
		R8118	D0GA101JA039	M 100OHM, J, 1/16W		
		R8120	D0GAR00J0005	M 0 OHM, 1/16W		
		R8123	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R8124	D1BA1202A023	M 12KOHM,F. 1/16 W		
		R8126	D0GA473JA039	M 47KOHM, J,1/16W		
		R8128	D0GBR00J0004	M 0 OHM J 1/10W		
		R8130	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8137	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8138	D0GA473JA039	M 47KOHM, J,1/16W		
		R8141	D0GA473JA039	M 47KOHM, J,1/16W		
		R8145	D0GBR00J0004	M 0 OHM J 1/10W		
		R8146	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8147	D0GA750JA023	M 75 OHM, J,0.063W		
		R8148	D0GA103JA039	M 10KOHM,F,1/16W		
		R8149	D1BA1001A023	M 1 KOHM,F,1/16 W		
		R8150	D1BA1001A023	M 1 KOHM,F,1/16 W		
		R8151	D0GA103JA039	M 10KOHM,F,1/16W		
		R8900	D0GA101JA039	M 100OHM, J, 1/16W		
		R8901	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8902	D0GA103JA039	M 10KOHM,F,1/16W		
		R8903	D0GBR00J0004	M 0 OHM J 1/10W		
		R8904	D0GA680JA023	M 68 OHM, J,1/16W		
		R8905	D0GA680JA023	M 68 OHM, J,1/16W		
		R8906	D0GA680JA023	M 68 OHM, J,1/16W		
		R8907	D0GA680JA023	M 68 OHM, J,1/16W		
		R8908	D0GA103JA039	M 10KOHM,F,1/16W		
		R8909	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8910	D0GA102JA039	M 1KOHM, J, 1/16W		
TRANSISTORS						
		T7301	G4DYA0000490	TRANSFORMER		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
OTHERS						
		A02	K1KY14BA0484	CONNECTOR		
		A10	K1KY07BA0483	CONNECTOR		
		A11	K1MY51BA0526	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		CF7103	D4CAY2R20002	TERMISTOR		
		CN0100	K1KA14A00248	CONNECTOR		
		F7101	K5E502YYA213	FUSE		
		JK3101	K1U511D00002	AV TERMINAL		
		JK4700	K1FY119D0029	TERMINAL		
		JK4701	K1FY119D0029	TERMINAL		
		JK6752	K1ZZ00001557	AV TERMINAL		
		JK7101	K2AAYA000003	TERMINAL		
		JK8450	K1FY104B0092	TERMINAL		
		JS0048	D0GAR00J0005	CHIP RESISTOR		
		JS0061	D0GAR00J0005	CHIP RESISTOR		
		K10	K1KY07BA0483	CONNECTOR		
		LF7103	G0B183GA0082	LINE FILTER		
		LF7104	G0B183GA0082	LINE FILTER		
		LF7105	G0B350GA0083	LINE FILTER		
		P2	K1KY14BA0491	CONNECTOR		
		P3	K1KY06BA0385	CONNECTOR		
		PC7300	B3PAA0000674	PHOTO COUPLER		
		PC7301	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		
		X6750	H0J240500067	CRYSTAL OSCILLATOR		
		X8301	H0J240500095	CRYSTAL OSCILLATOR		
		ZA7101	K4AD01A00004	RUG TERMINAL		
		ZA7102	K4AD01A00004	RUG TERMINAL		
		ZA7103	K4AD01A00004	RUG TERMINAL		
		ZA7104	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	L5EDDYY00654	LCD PANEL		
		4	N2QAYB000818	REMOTE TRANSMITTER		
			TBL5ZX08971	STAND METAL ASSY		
			TBM4GD4631	MODEL NAME PLATE		
			TBX5ZA03303	KEY BUTTON BRACKET		
		5	TKK5ZC50501A	LED PANEL		
		6	TKP5ZA32202	SIDE AV BRACKET		
		7	TPD4GA05701	TOP CUSHION		
		8	TPD4GA05711	BOTTOM CUSHION		
		9	TPE4GH073	SET COVER		
		10	TQZ4GB877	FAN BAG ASSY		
			TSCKF0170144	LVDS		
		11	TXFPC01SLUS	PACKING CASE ASSY		
		12	TZBL4GX00231	PEDESTAL ASSY		
		13	TZTU4GA1361	BACK COVER ASSY		
			XSS4+12FJK	SCREW		
			XTS4+10GFJ	SCREW		
Electrical Replacement Part List						
		RTL	TZT/A1SLUS	A PRINT ASSY		
		RTL	TXN/K1UTUH	K PRINT ASSY		
		RTL	TXN/P1SLUS	P PRINT		