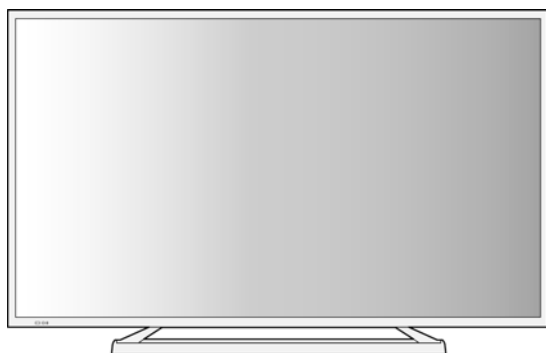


Service Manual

LED TV



Model No. TH-50A410R

Chassis: KM26

Destination: IRAN

WARNING

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

IMPORTANT SAFETY NOTICE

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

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

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

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

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

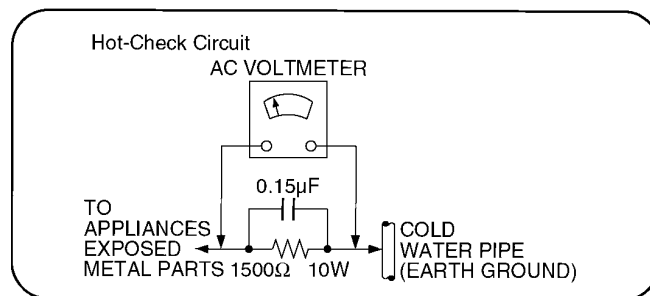


Figure 1

2 Warning

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

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

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

Caution

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

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

2.2. About lead free solder (PbF)

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

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

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

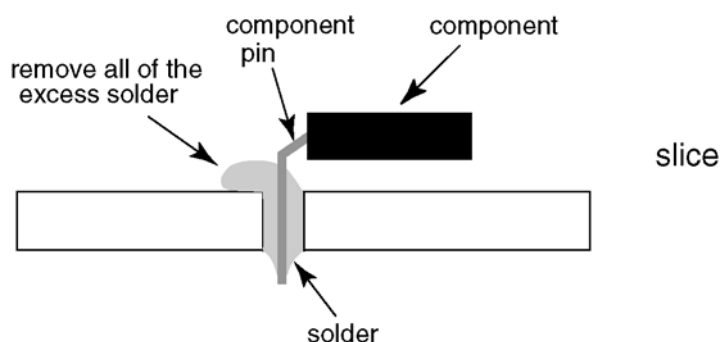
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

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

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

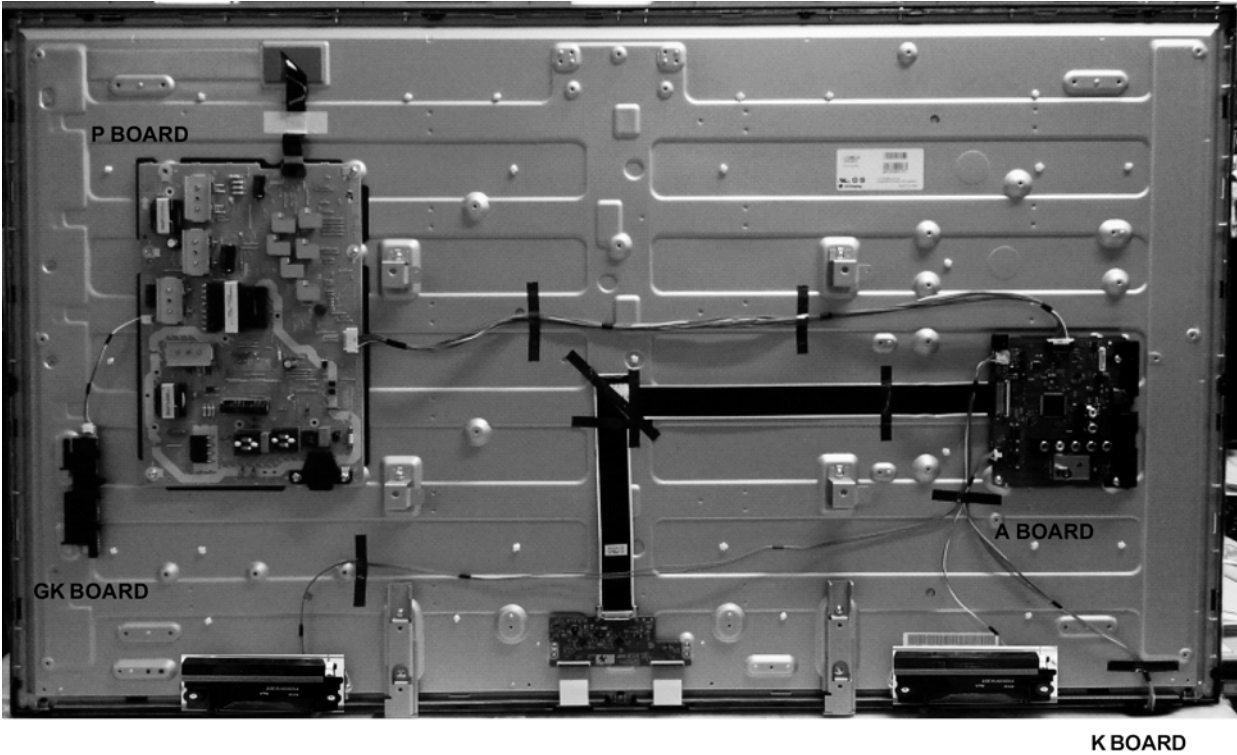
Caution

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



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, EEP, SPI, MTK IC	Repairable
P BOARD	Power Supply, Power switch, Keyscan	Repairable
K BOARD	Remote, LED, Luminence Sensor	Repairable
GK BOARD	Power Switch, Keyscan	Repairable

4 Specifications

Dimensions (W × H × D)	1 130 mm × 702 mm × 260 mm (With Pedestal) 1 130 mm × 658 mm × 60 mm (TV only)
Mass	15.0 kg Net (With Pedestal) 14.0 kg Net (TV only)
Power source	AC Single 220-240 V, 50 / 60 Hz
Rated power consumption	78 W
Standby power consumption	0.25 W
Visible screen size (diagonal)	126 cm
Display resolution	1 920 (W) × 1 080 (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.
USB Port	DC 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]
DIGITAL AUDIO OUT	PCM / Dolby Digital / DTS, Fibre optic
AUDIO OUT	AUDIO L - R RCA PIN Type × 2 0.5 V[rms]
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 (via AV input only)
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

Note

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

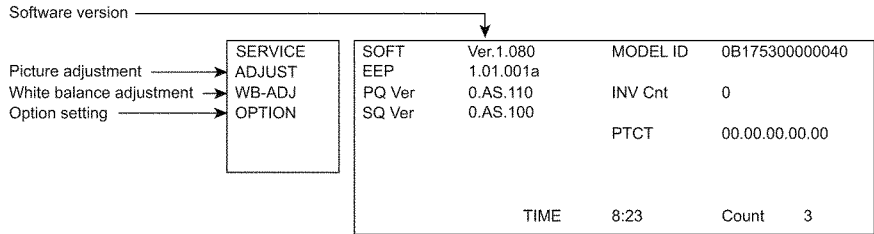
5 Service Mode

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

50 FHD			
Self check complete			
TUN	OK	SOFT	Ver.1.080
EEPROM	OK	EEP	1.01.001a
FE2	OK	Model id	0B175300000040
		PQ Ver	0.AS.110
		SQ Ver	0.AS.100

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

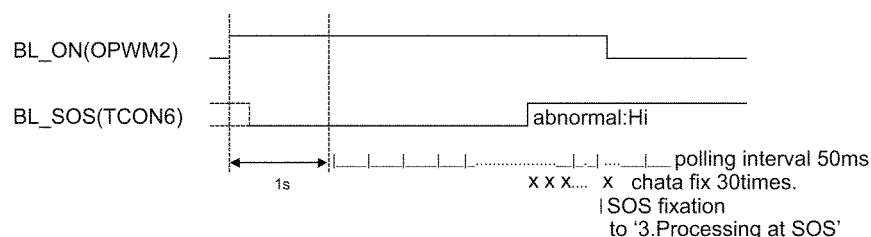
When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

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

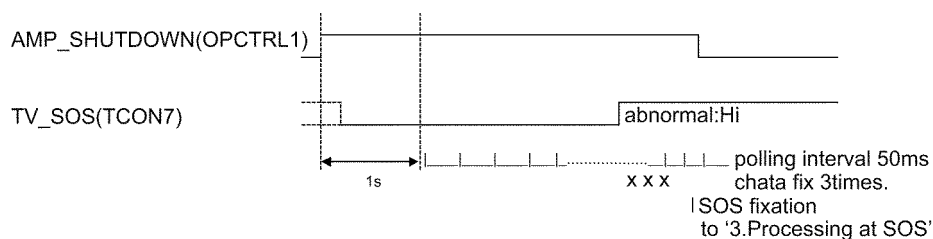
1. BL_SOS

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



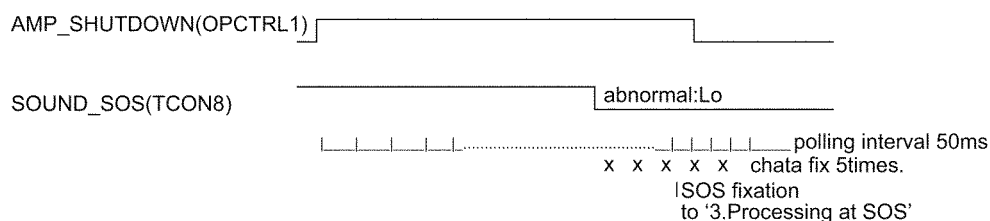
2. TV_SOS

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.

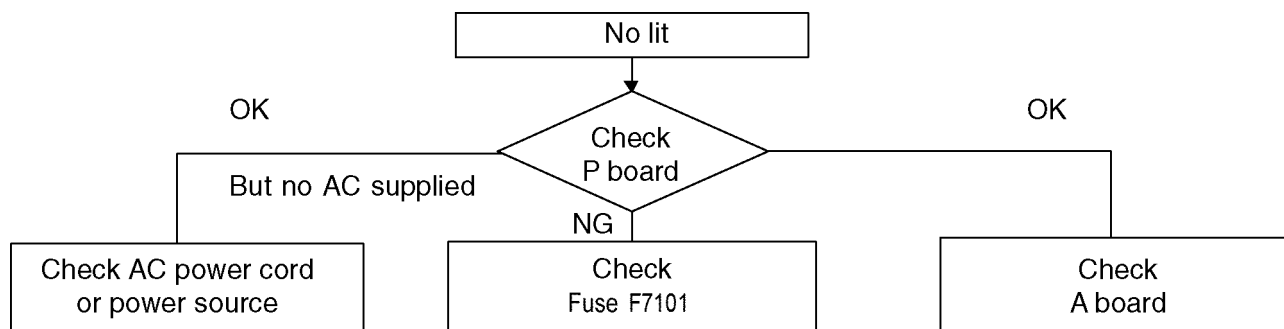
If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

6.5. No Power

First check point

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

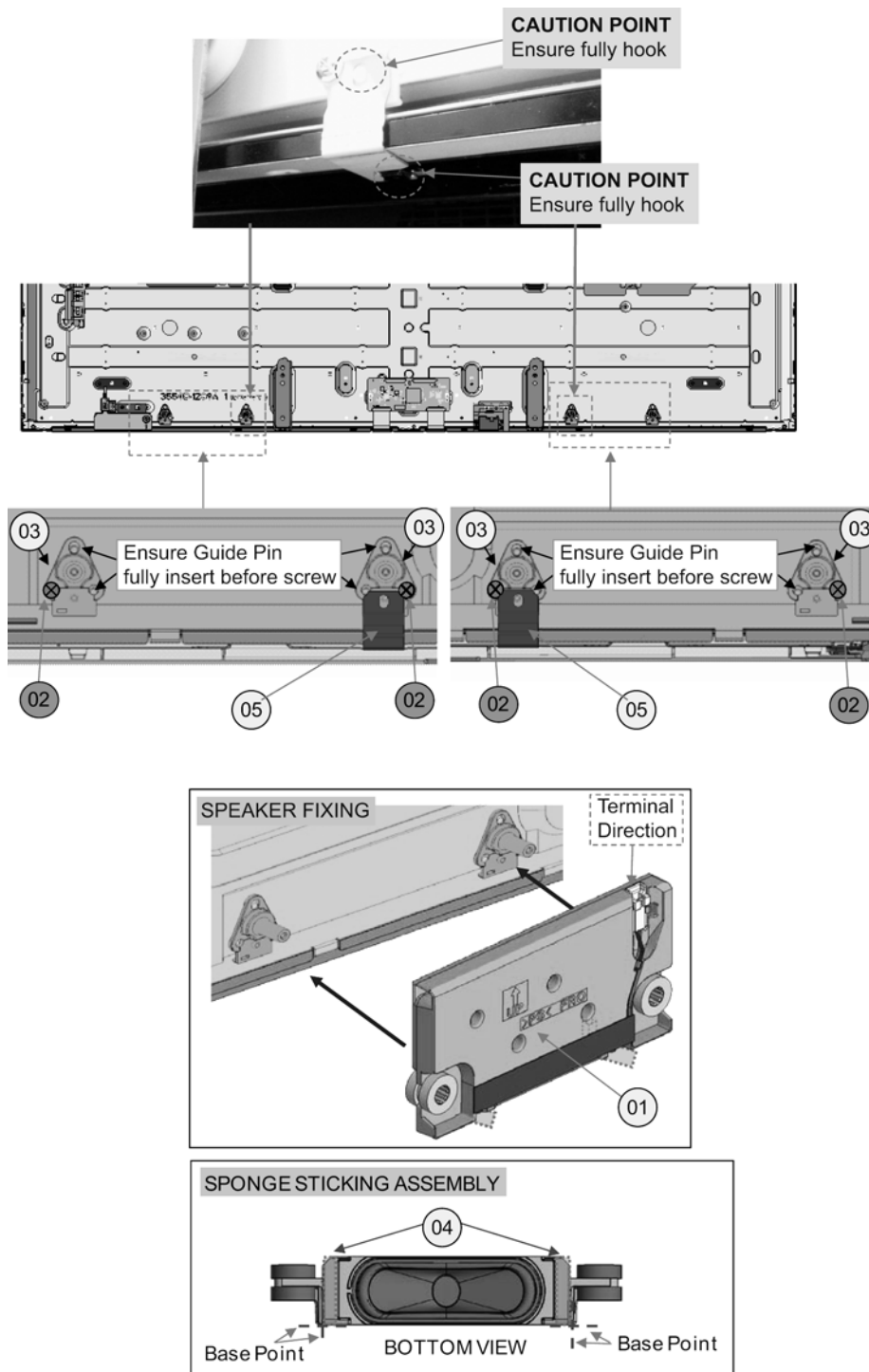
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. Speaker Fixing and Assembly

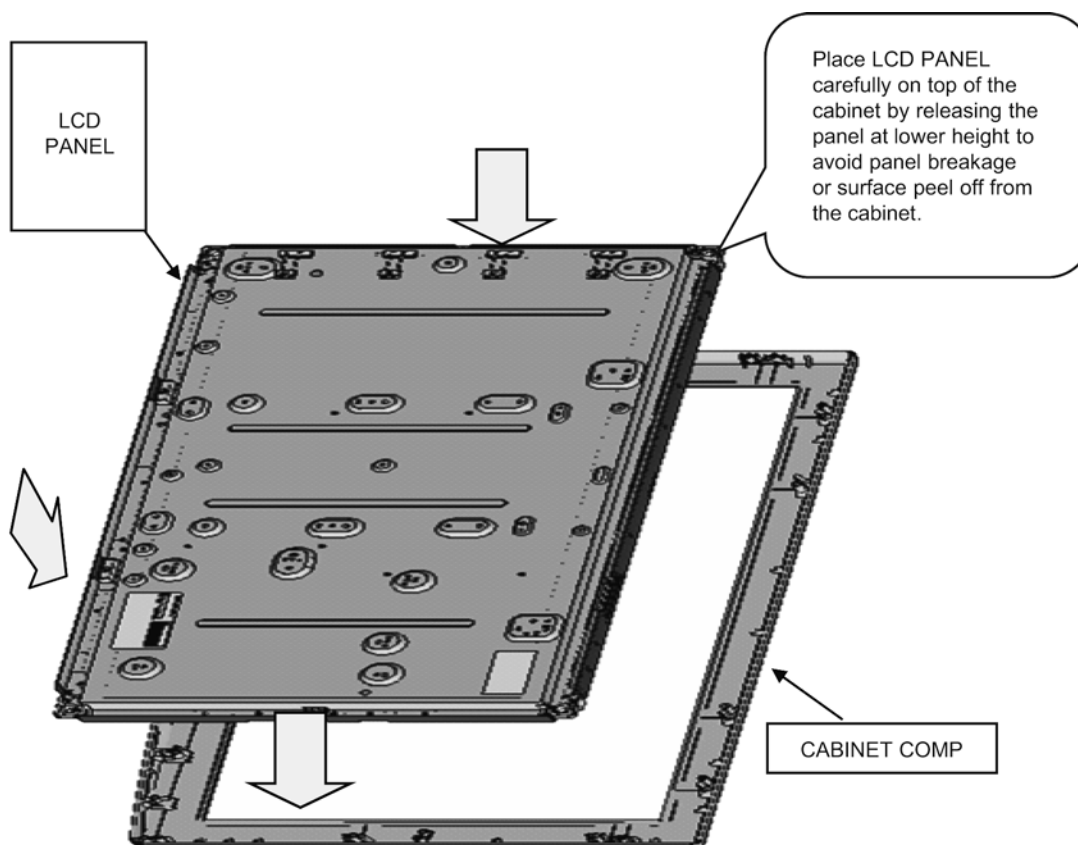
1. Fix speaker bracket at panel and screw.
2. Stick sponge at speaker and slot at speaker bracket.
3. Fix lcd mtg metal at cabinet and speaker bracket.



NO	QTY	UOM	DESCRIPTION	REMARK
01	2	PC	SPEAKER UNIT	
02	4	PC	SCREW (A3/P5/SP4/VESA4/METAL4)	06 ± 1 Kgf.cm
03	4	PC	SP BRACKET	
04	4	PC	SP SPONGE	
05	2	PC	LCD MTG BOTTOM	

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.

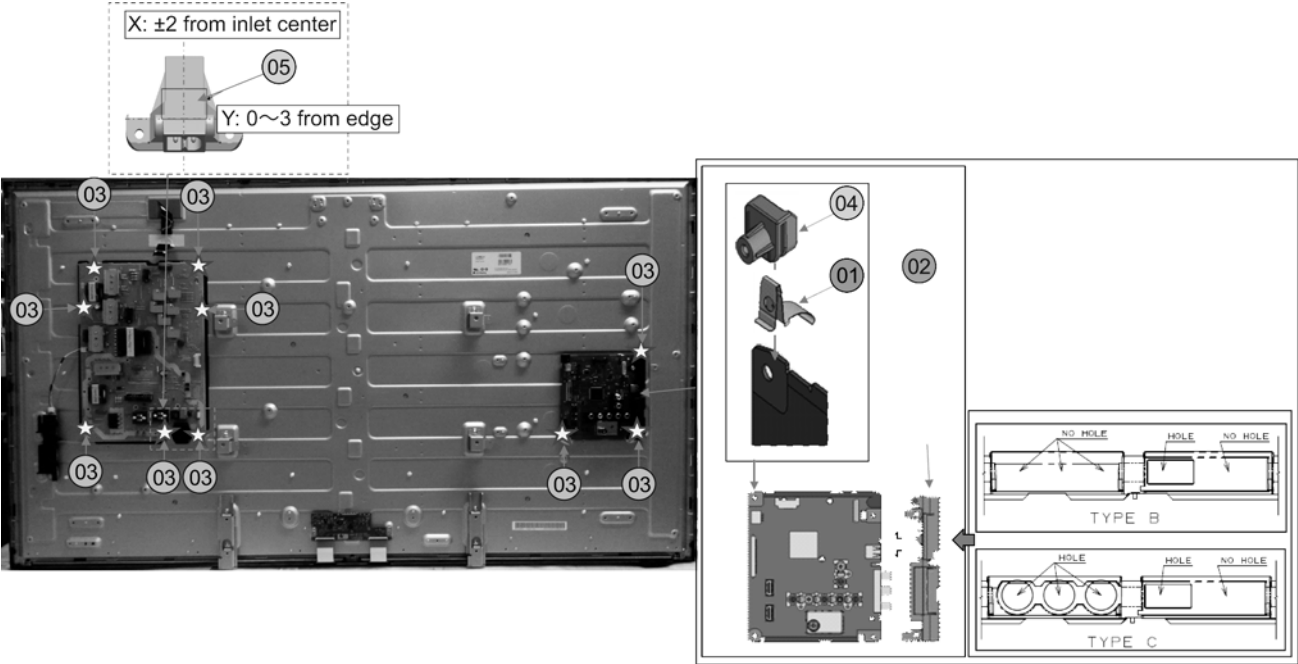


Other general precautions

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. Metal MTG Fixing

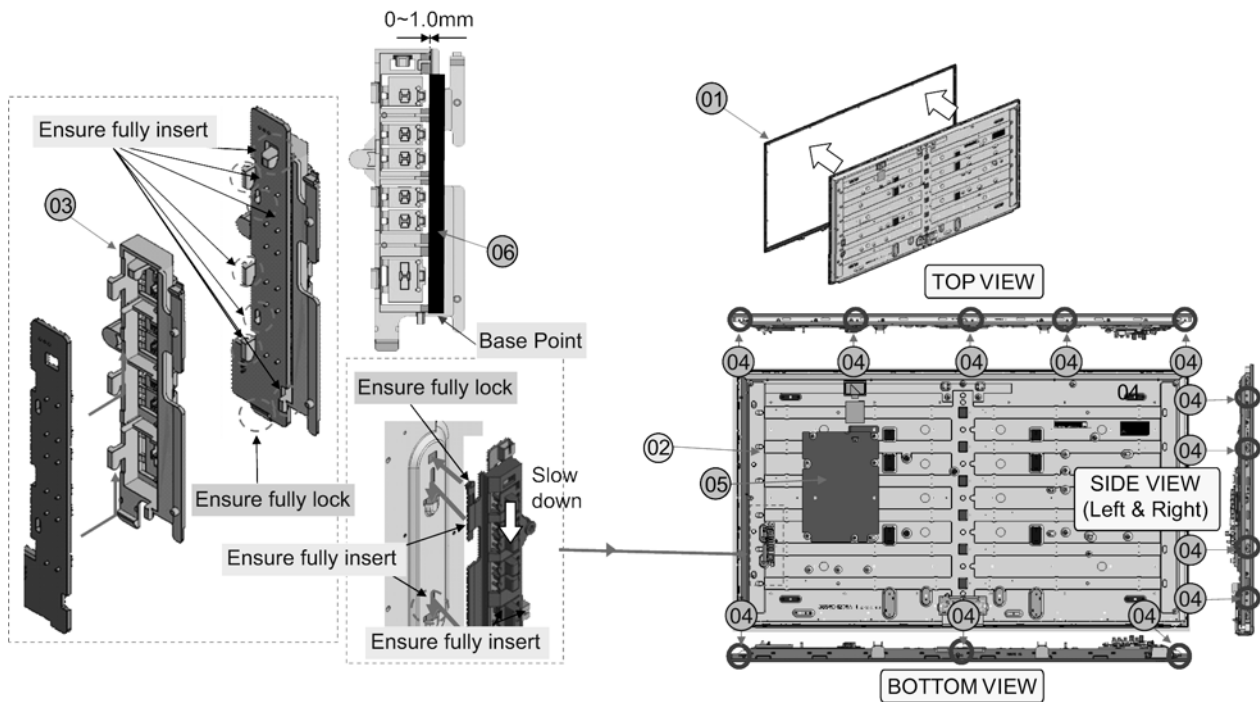
- 1. Fix ground spring into A-pcb bracket and fix to pcb.
- 2. Fix pcb to panel and screw.



NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	GROUND_SPRING	
02	1	PC	SIDE_AV_BRACKET	
03	10	PC	SCREW (A3/P5/SP4/VESA4/METAL4)	06 ± 1 Kgf.cm
04	1	PC	A-PCB_BRACKET	
05	1	PC	FELT (0.45 × 20 × 10)	

7.4. Key Button Assembly

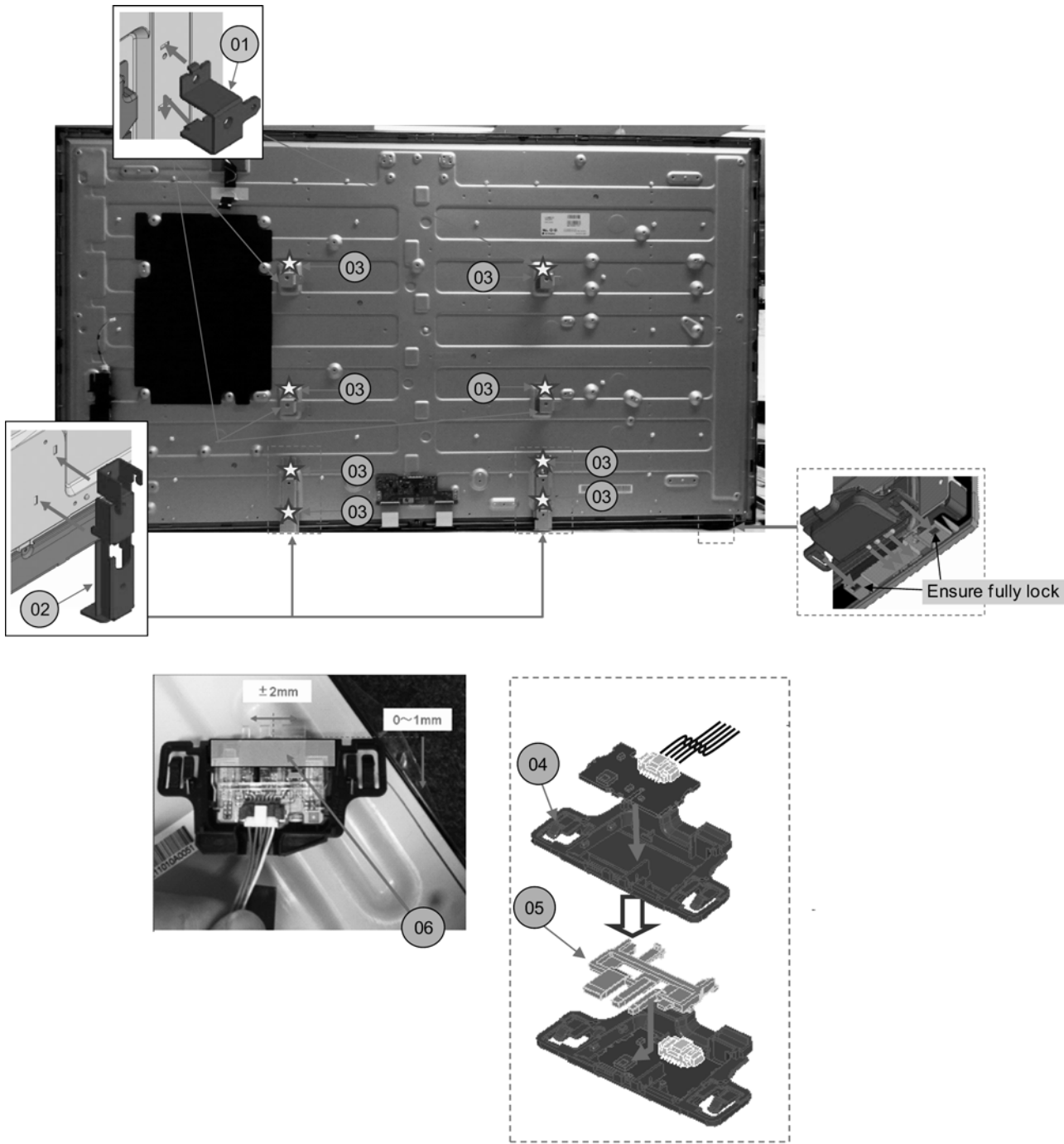
1. Fix panel at cabinet and screw.
2. Fix pcb at key button bracket and fix at panel.
3. Stick barrier at panel.
4. Stick felt at key button.



NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	CABINET ASS'Y	
02	1	PC	LCD_PANEL	
03	1	PC	KEY_BUTTON_BRACKET	
04	16	PC	SCREW (PANEL)	06 ± 1 Kgf.cm
05	1	PC	BARRIER	
06	1	PC	FELT (8 × 95 × 0.45t)	

7.5. Bracket Fitting

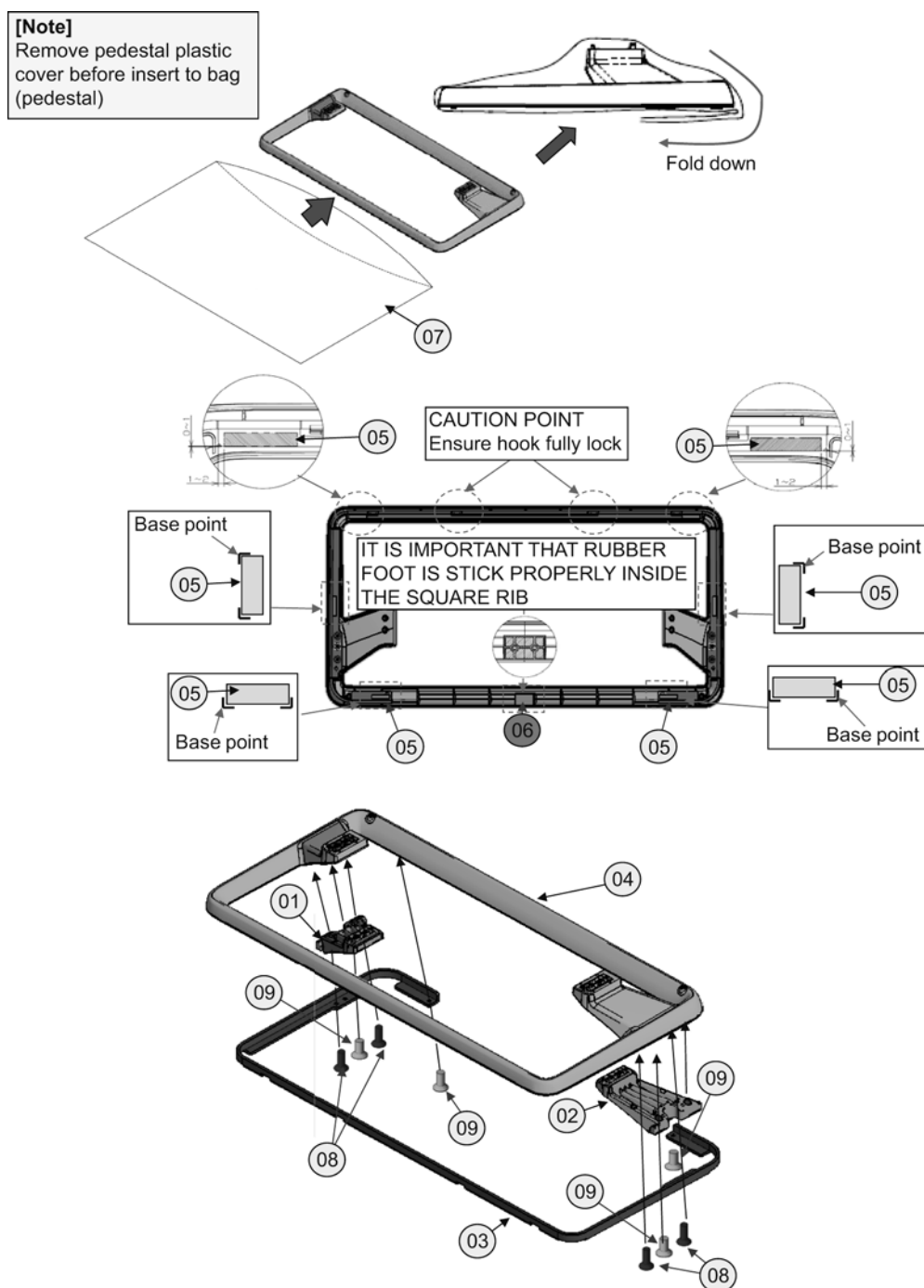
Fix bottom metal and vesa metal to panel and screw.



NO	QTY	UOM	DESCRIPTION	REMARK
01		PC	VESA_METAL	
02		PC	BOTTOM_METAL	
★ 03	8	PC	SCREW(A3/P5/SP4/VESA4/METAL4)	06 ± 1 Kgf.cm
04	1	PC	LED_PANEL_CASE	
05	1	PC	LED_PANEL	
06	1	PC	SPONGE (T3.0 × 40 × 10)	

7.6. Pedestal Assembly

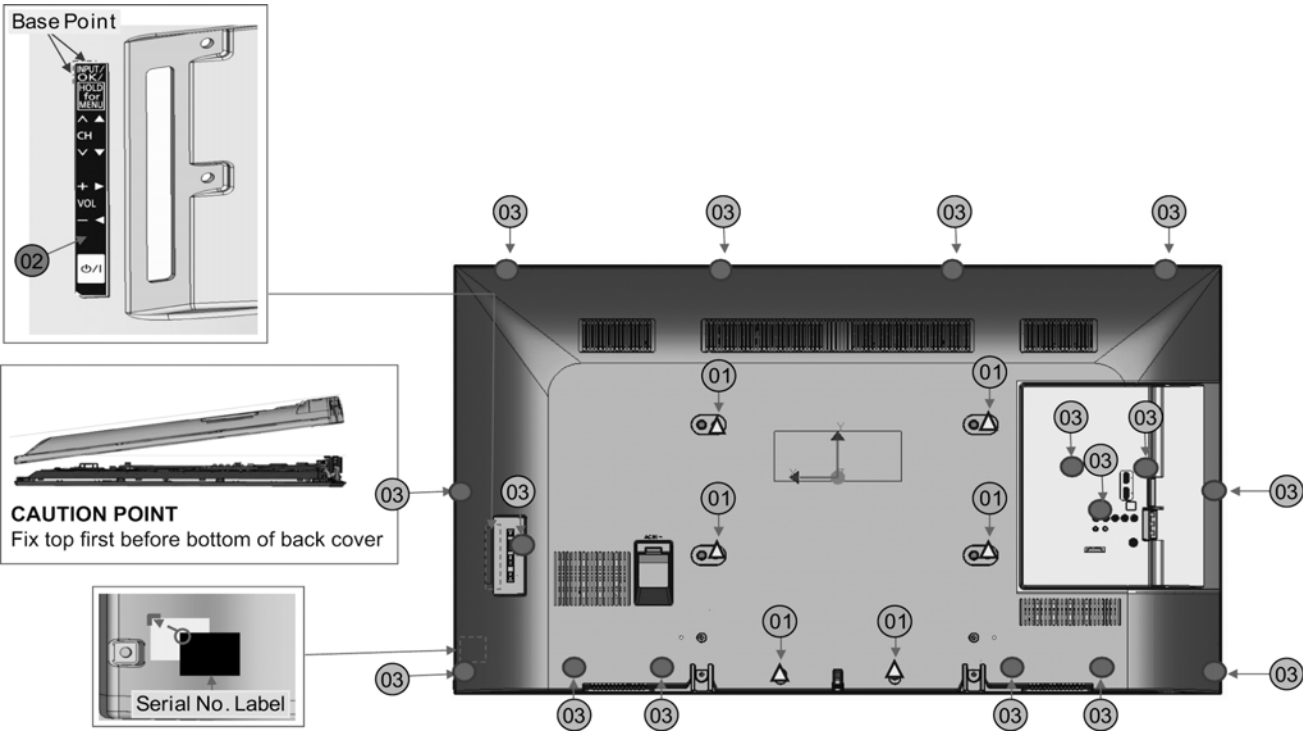
Fix pedestal follow below, need screw first before stick rubber foot.



NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	NECK_BASE-L	
02	1	PC	NECK_BASE-R	
03	1	PC	METAL_FRAME	
04	1	PC	BASE_COVER	
05	1	PC	RUBBER_FOOT	
06	6	PC	RUBBER_FOOT	
07	1	PC	BAG (PEDESTAL)	
08	4	PC	M4 × 12_FLAT_HEAD_SCREW	08 ± 1 Kgf.cm
09	4	PC	ST4 × 10_FLAT_HEAD_SCREW	08 ± 2 Kgf.cm

7.7. Back Cover - Label & Screw

1. Fix back cover and screw.
2. Stick side button label and serial number label.



NO	QTY	UOM	DESCRIPTION	REMARK
01		PC	SCREW (BC6)	06 ± 1 Kgf.cm
02	1	PC	SIDE_BUTTON_LABEL	
03	16	PC	SCREW (BC16)	06 ± 1 Kgf.cm

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
TNR1.8V	TP8705	1.74 - 1.90	-
VCKK1.1V	TP8700	1.14 ~ 1.28	-
SUB3.3V	TP8711	3.19 - 3.46	-
SUB5V	TP8702	4.9 - 5.2	-
STB5.3V	TP7507	4.9 - 5.5	-
PNL12V	TP8300	11.5 - 12.5	-
DDR1.8V	TP8707	1.75 ~ 1.85V	-
STB3.3V	TP8708	3.2V ~ 3.40V	-
TNR3.3V	TP6701	3.2V ~ 3.4V	-

8.2. Voltage chart of P-board

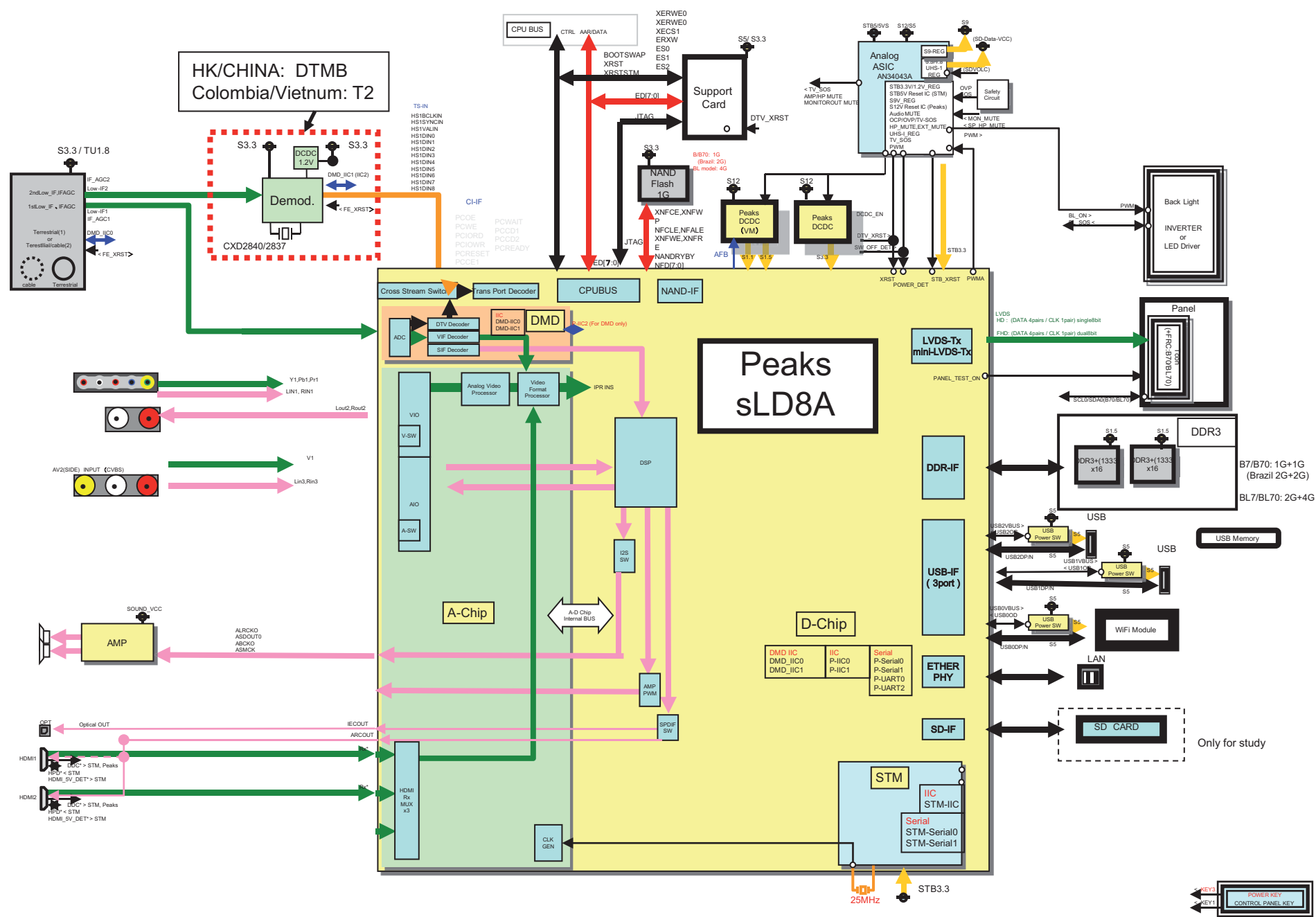
Set P-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification	
		Step 1	Step 2
24V	TP7407	<1V	24 ± 1.2V
16V	TP7411	<1V	15.7 ± 0.6V
			18.6 ± 0.9V
5VS	TP7501	5.2 ± 0.2V	5.2 ± 0.2V
PFC	TP7201	<340V	390V ± 15V

*HOT

9 Block Diagram

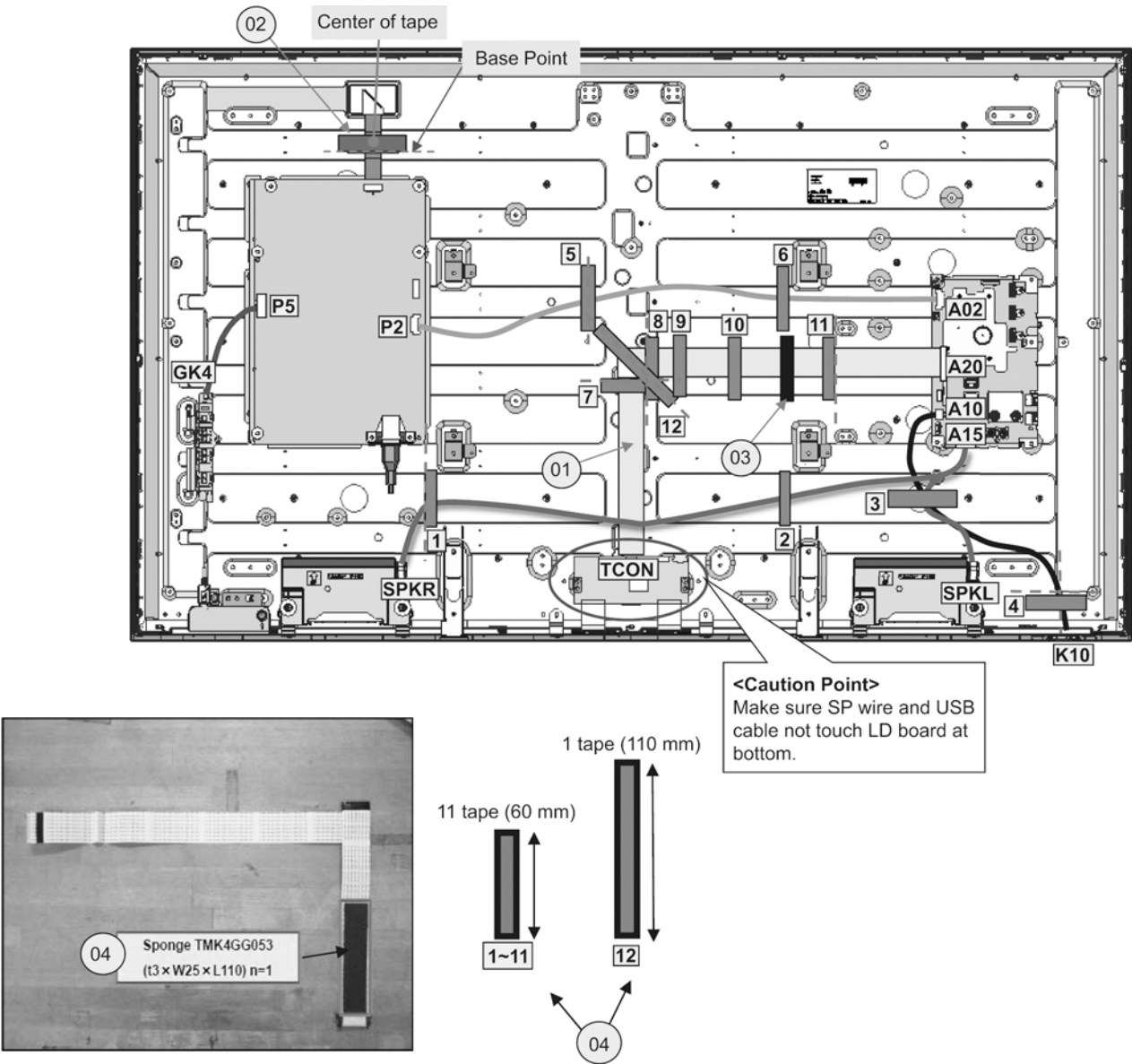
9.1. Main Block Diagram



10 Wiring Connection Diagram

10.1. Wire Dressing

- 1. Fix all wire connector and LVDS wire to PCB.
- 2. Dressing wire follow picture.
- 3. Stick Pet tape at panel wire.

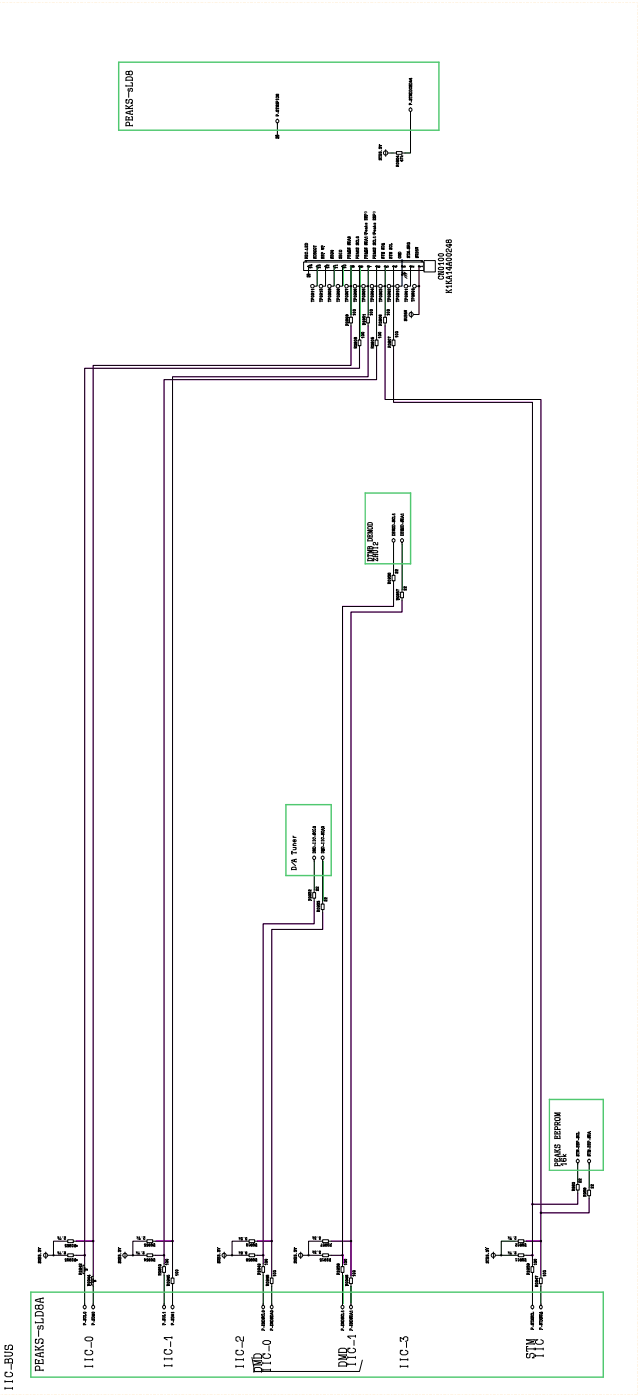


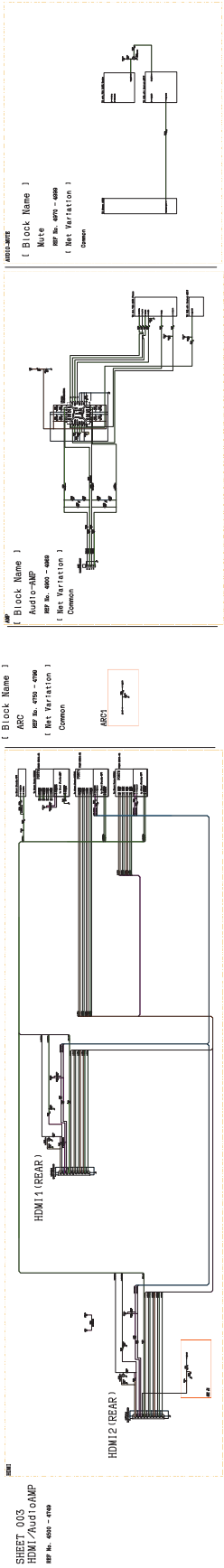
NO	QTY	UOM	DESCRIPTION	REMARK
01	1	PC	LVDS CABLE	
02	0.06	MT	PET_TAPE	60 mm × 1 pc
03	1	PC	AL-PET TAPE (0.085*10*80)	
04	0.77	MT	PET TAPE (11 × 0.06/1 × 0.11)	
05	1	PC	SPONGE (3*25*110)	

11 Schematic Diagram

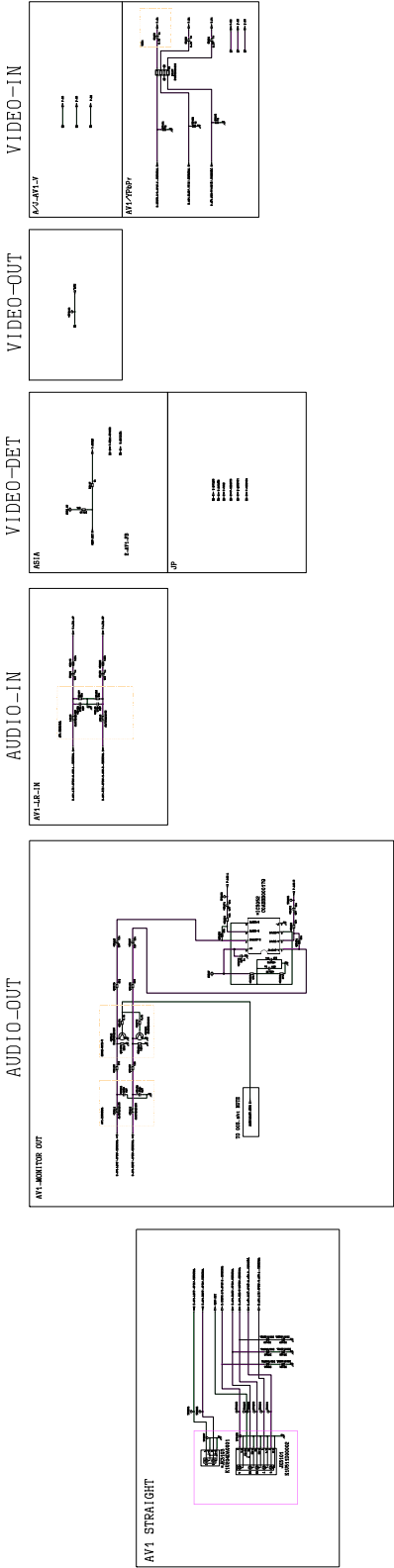
Model No. : TH-50A410R A-Board (1/18)

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

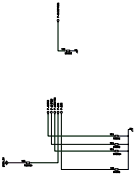




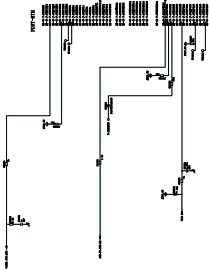
SHEET 004
AVSW
REF No. 3050 - 3249



SHEET 005
PEAKS-OTHER
REF No. 8800 - 8849
[Net Variation]
Common

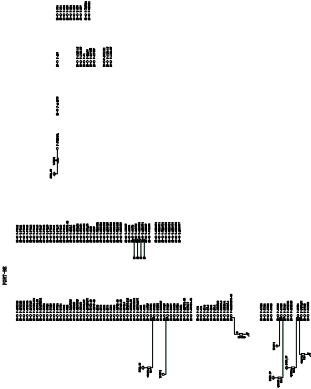


[Block Name]
STM Port
REF No. 8850 - 8870
[Net Variation]
Common



For STM Port

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

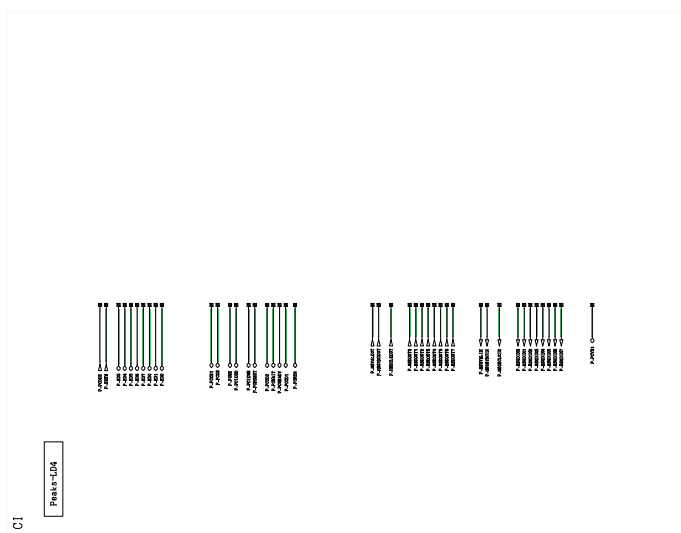
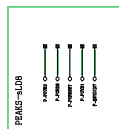


[Block Name]

B-CAS

REF No. 2700 - 2749

[Net Variation]



2025 FEB 25

REF No. 8400 - 8449

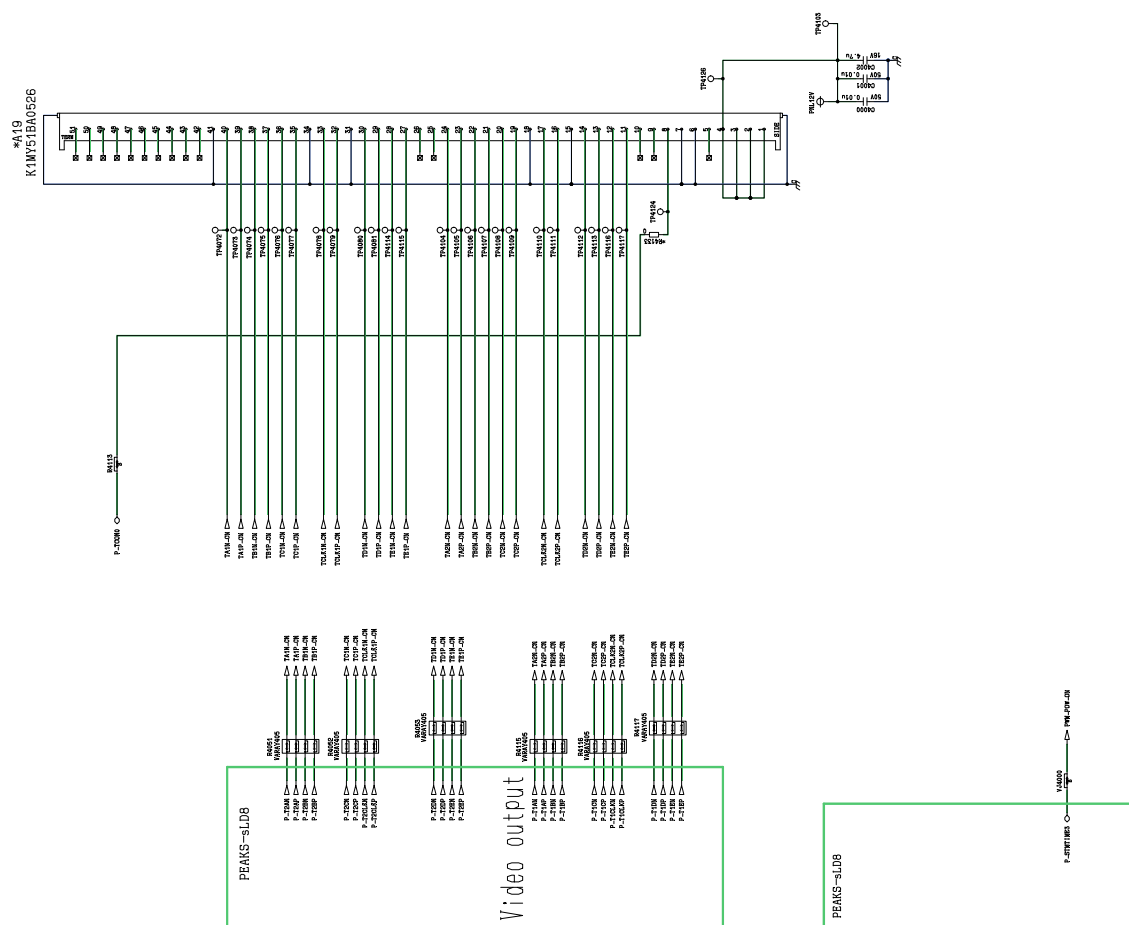
[Net Variation]
Common

SHEET 009
LVDS-IF-T-CON

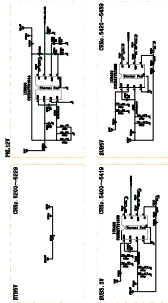
REF No. 4000 - 4499

[Net Variation]

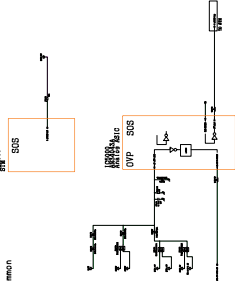
LVDS



SHEET 100
POWER-Model
REF No. 5200 - 5649
[Net Variation]
Lcd



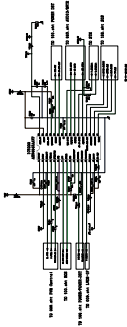
[Block Name]
PWR-1
REF No. 5170 - 5199
[Net Variation]
Common



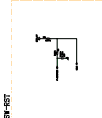
[Block Name]
PWR-2
REF No. 5140 - 5169
[Net Variation]
Common



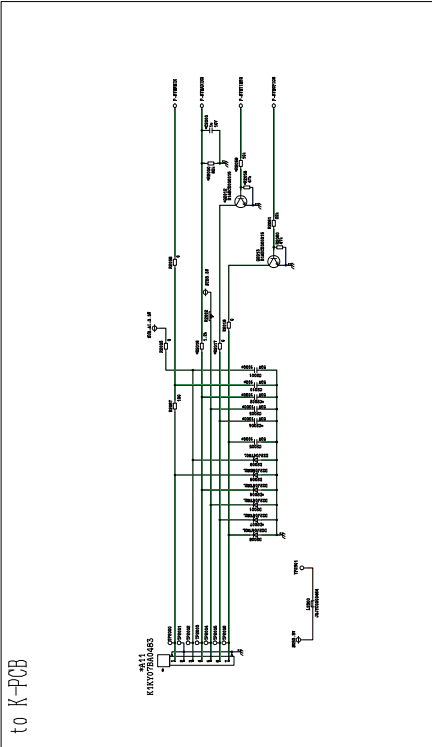
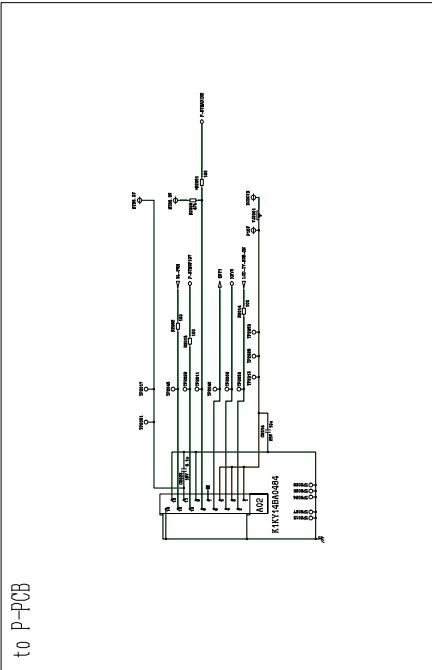
[Block Name]
PWR-3
REF No. 5100 - 5139
[Net Variation]
Common



[Block Name]
PWR-4
REF No. 1901 - 1999
[Net Variation]
Common
NonLive



SHEET 101
SET
REF No. 2000 - 2299
[Net Variation]
TNPH0993



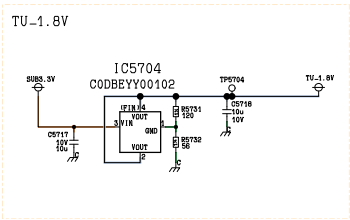
SHEET 102
POWER FOR TU+FE

REF No. 5700 - 5899

[Net Variation]

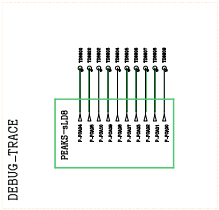
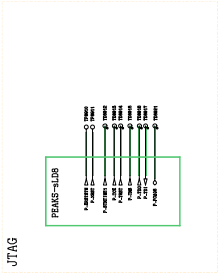
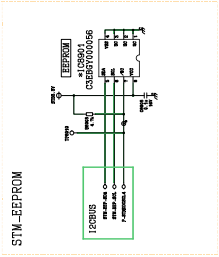
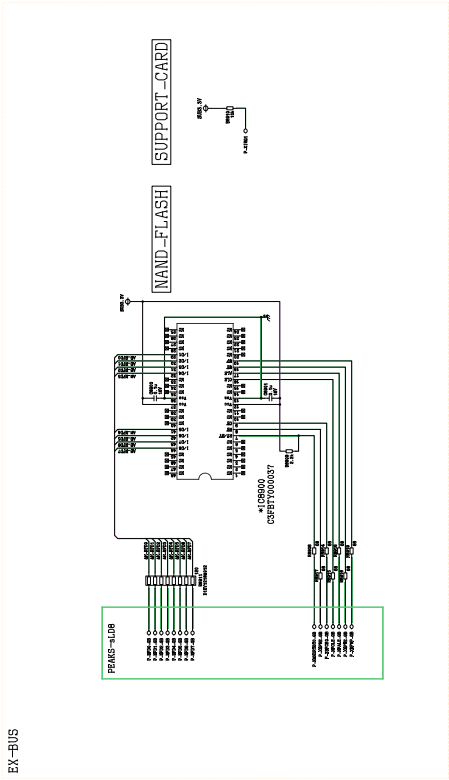
sLD8

POWER-FE



SHEET 300
COMMON-NAND/SPC/EEPROM/JTAG

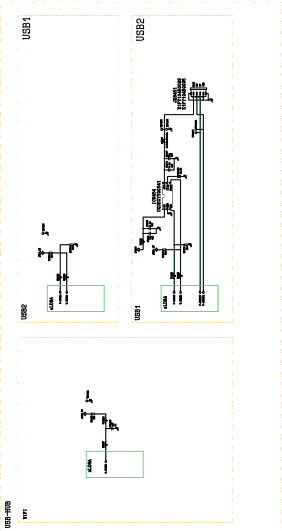
REF No.
[Net Variation]
Common



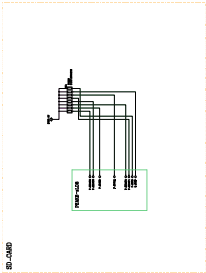
[Block Name]
LAN
REF No. 8600 - 8659
[Net Variation]
Common



[Block Name]
USB
REF No. 8450 - 8599
[Net Variation]
Common



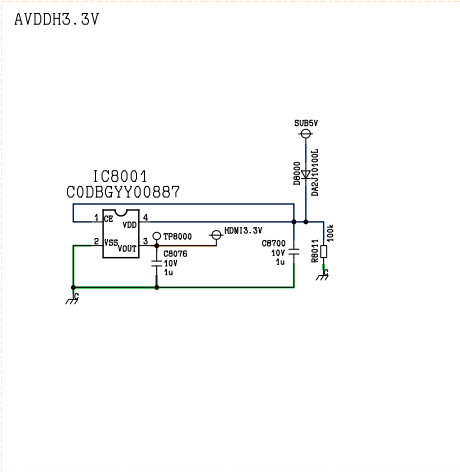
[Block Name]
SD
REF No. 8660 - 8699
[Net Variation]

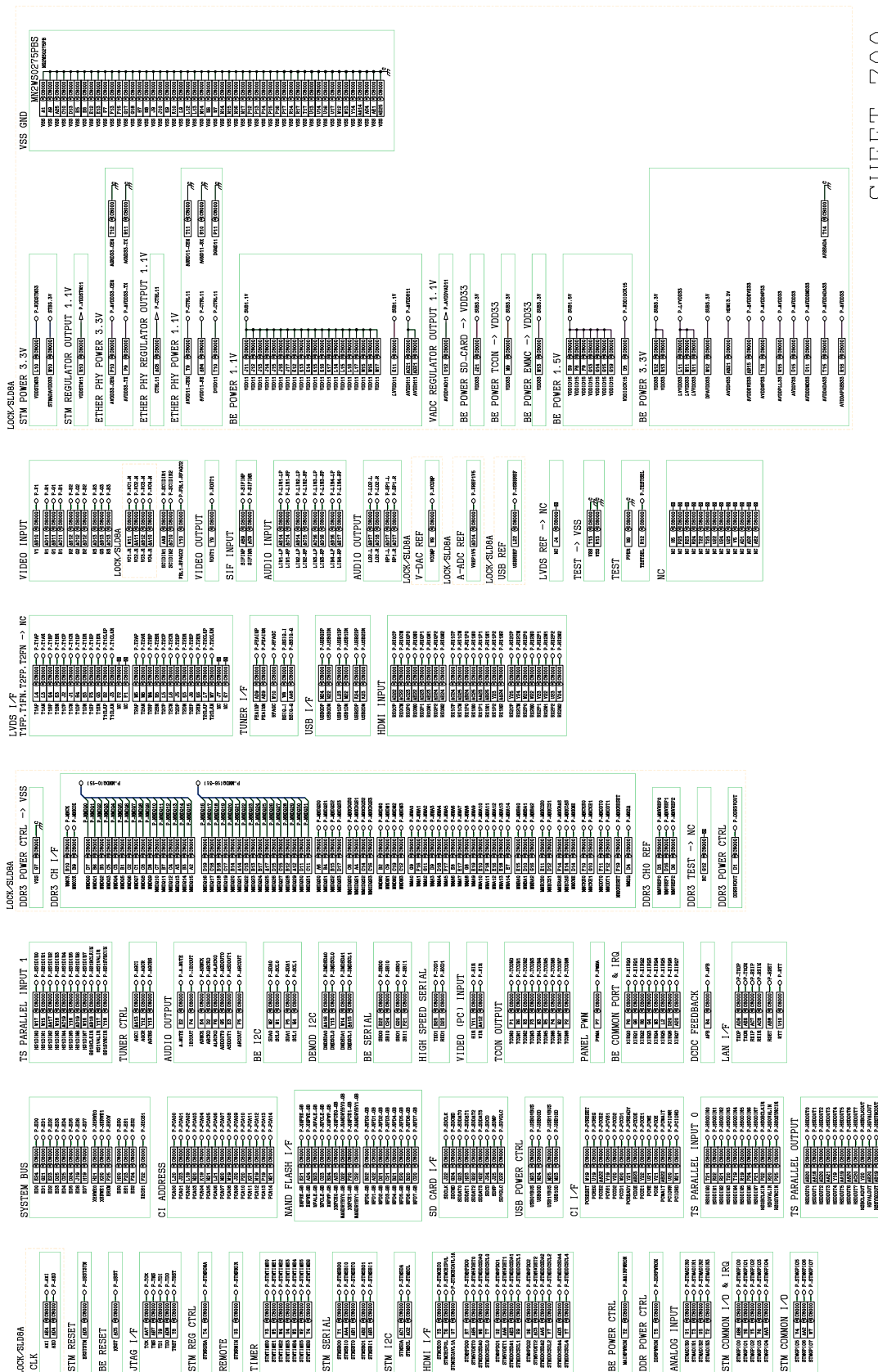


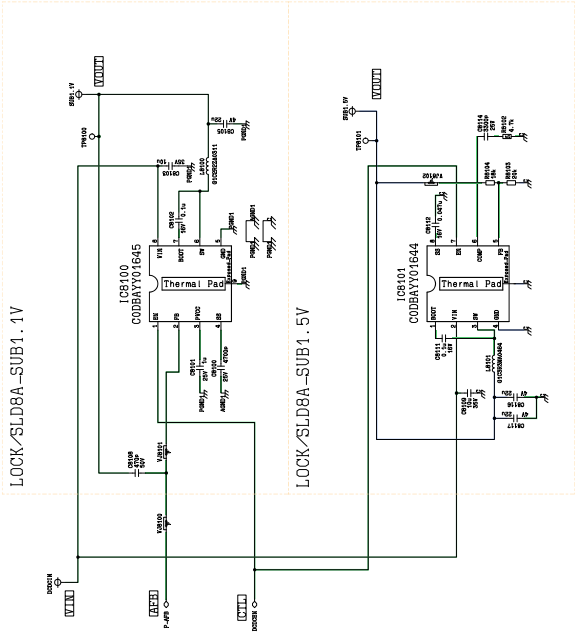
SHEET 302

POWER-Peaks

REF No. 8000 - 8999





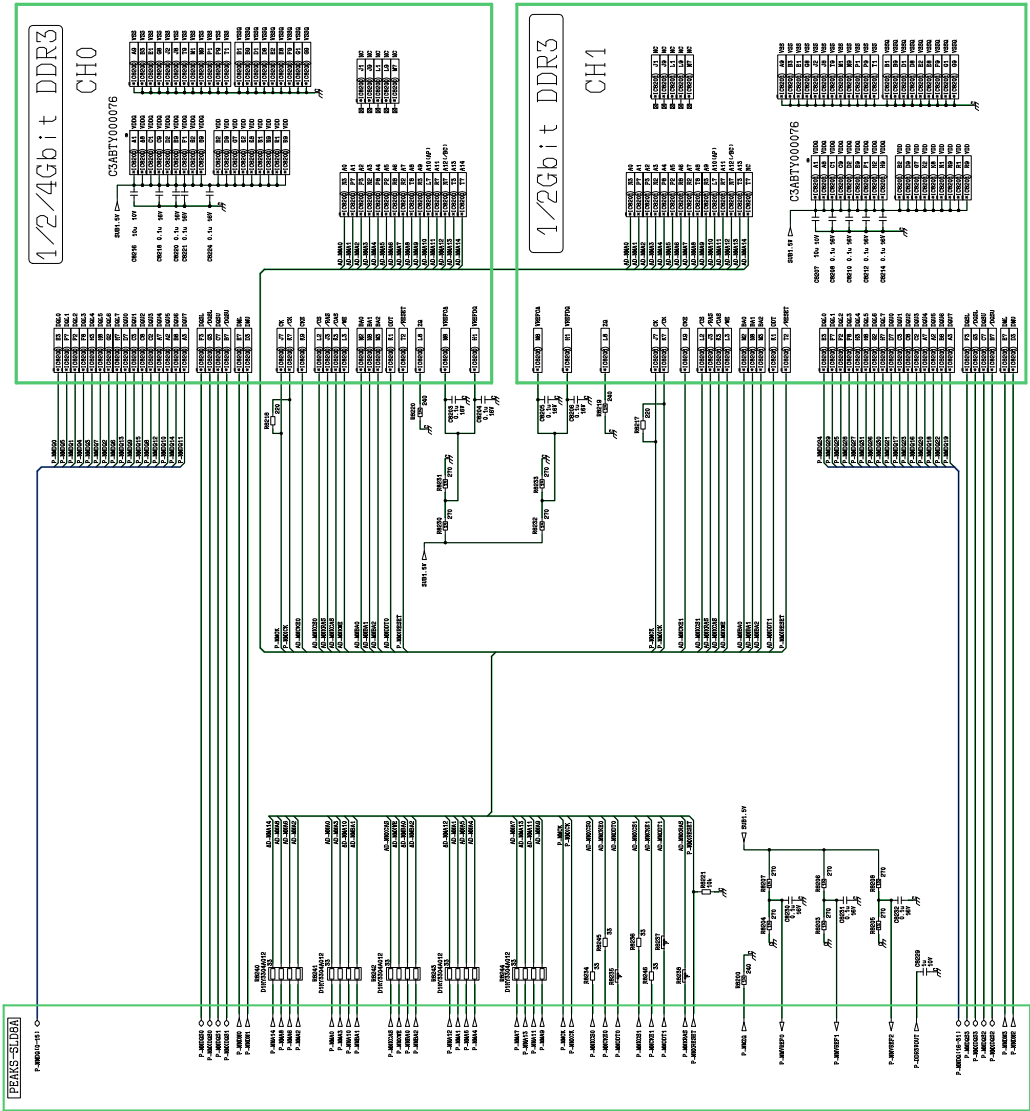


SHEET 702

LOCK-PEAKS-DCDC

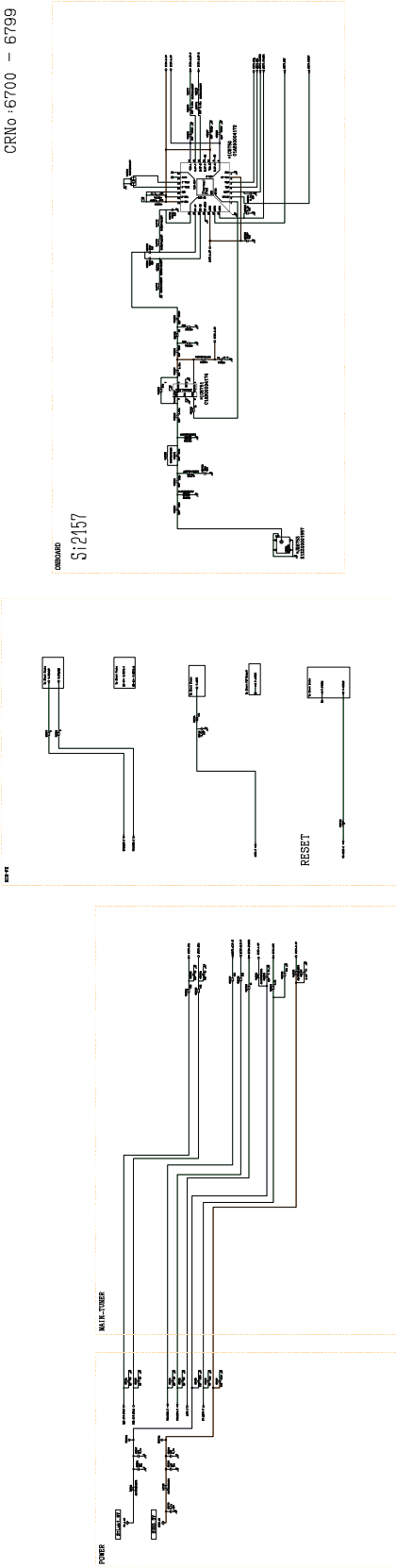
CRNo : 8100 - 8199

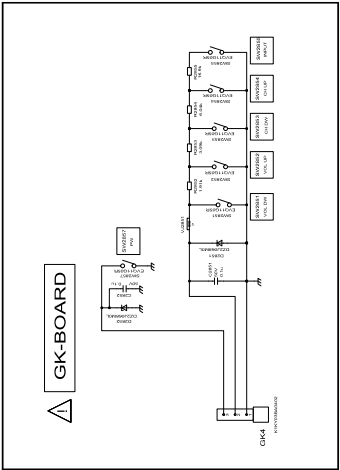
LOCK-SLDBA-DDR3



SHEET 703
LOCK-DDR3
CRN0:8200 - 8299

SHEET 706
TUNER
CRNo-6700 - 6799





A

B

C

D

E

F

1

2

3

4

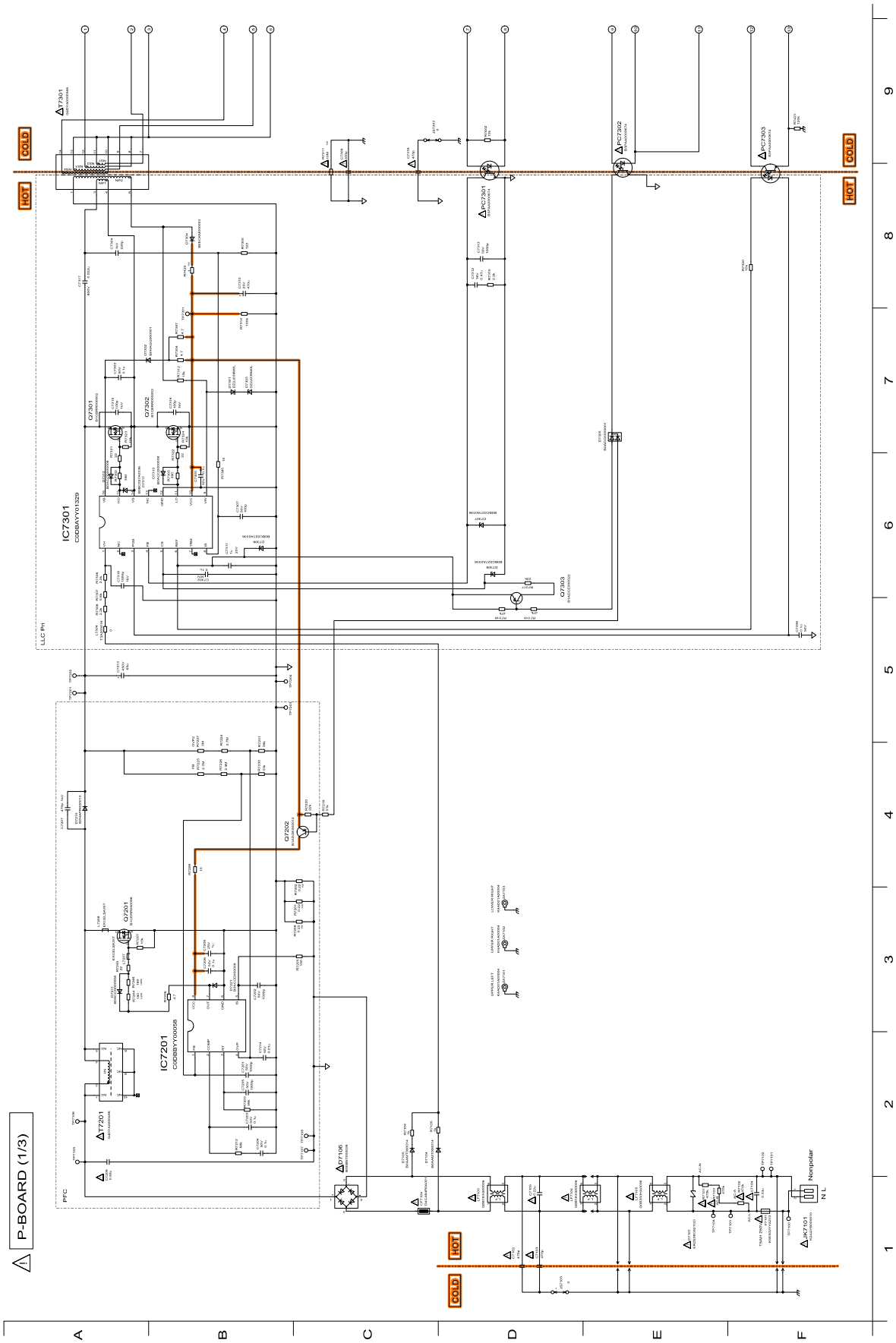
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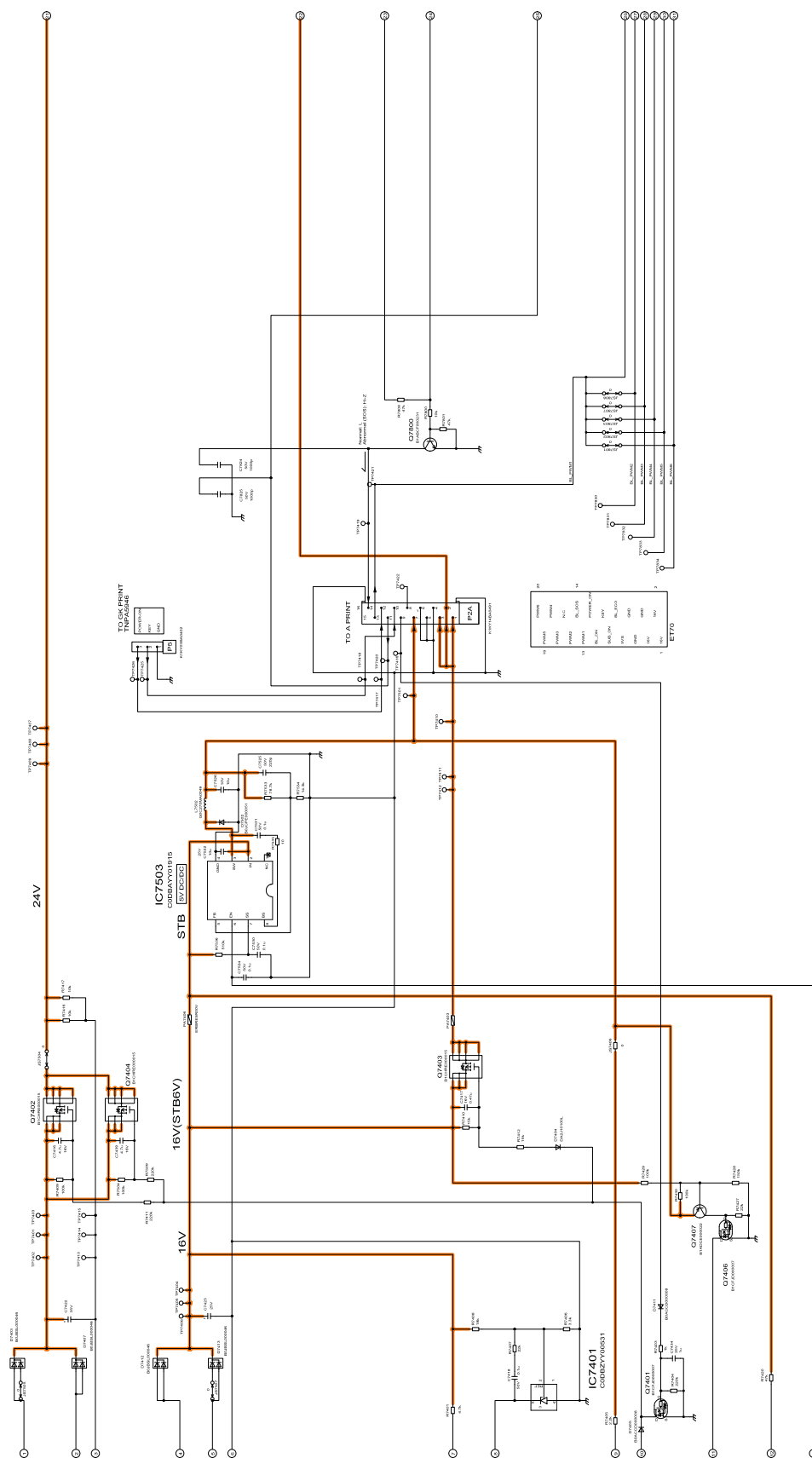
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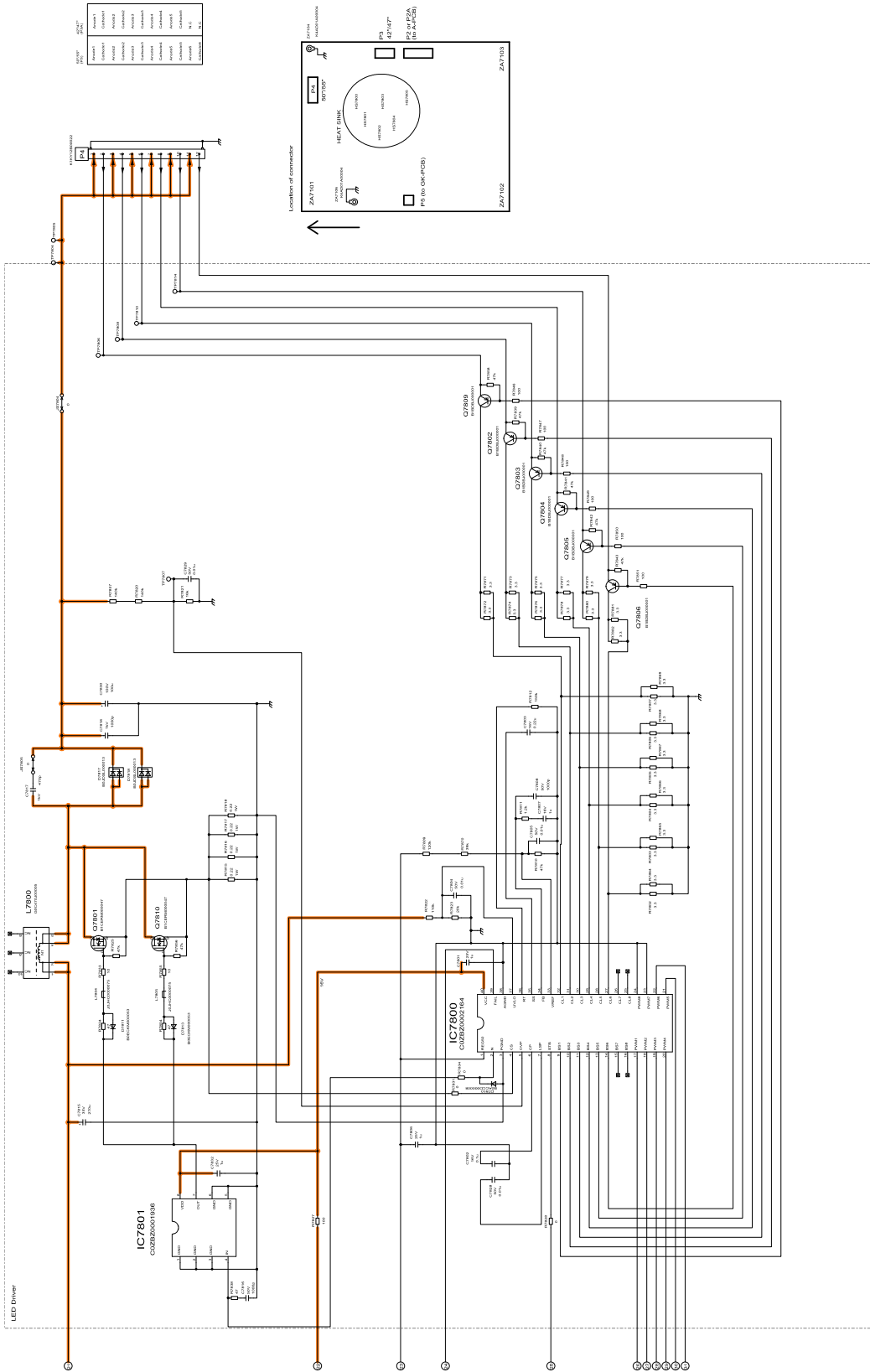
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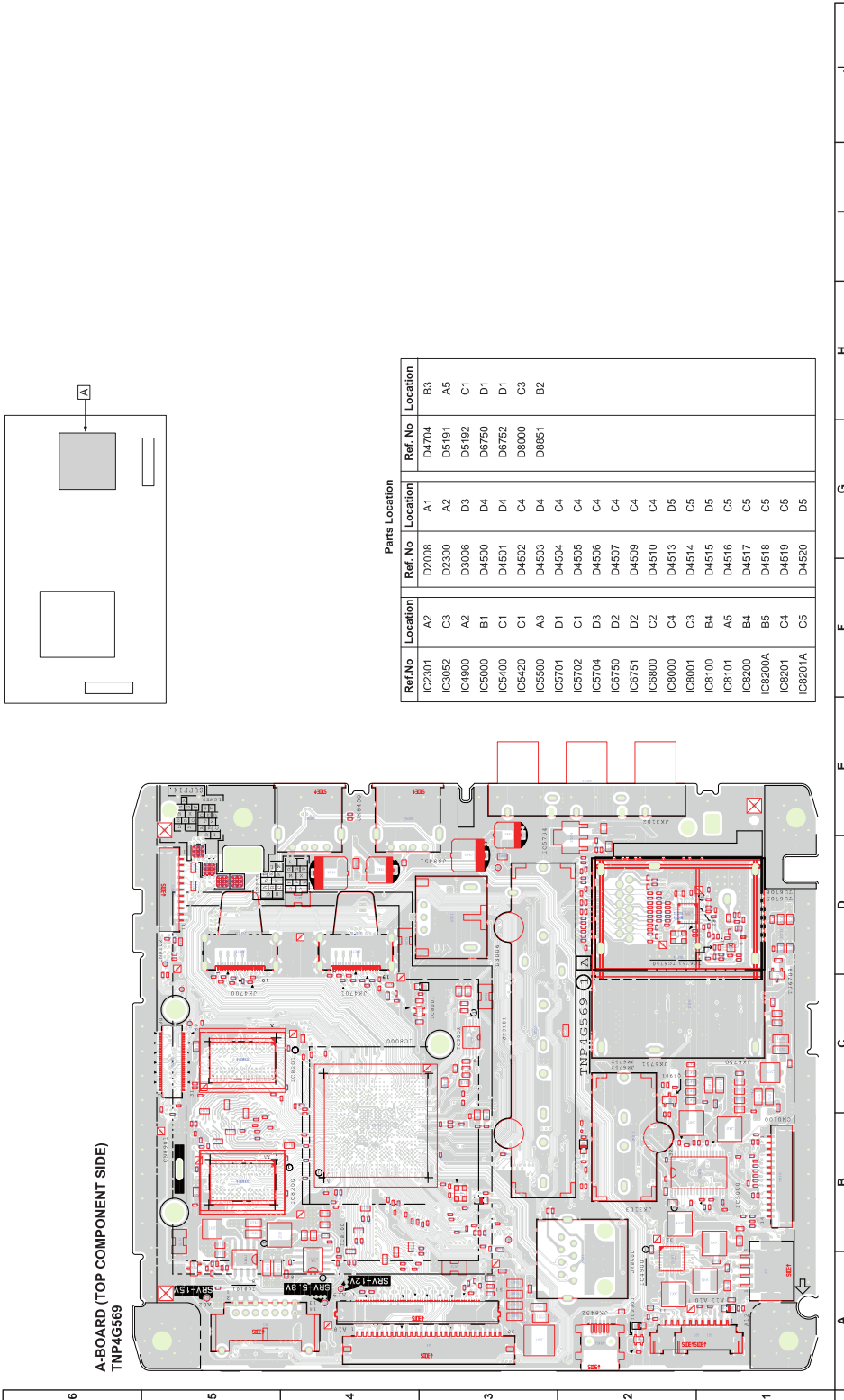
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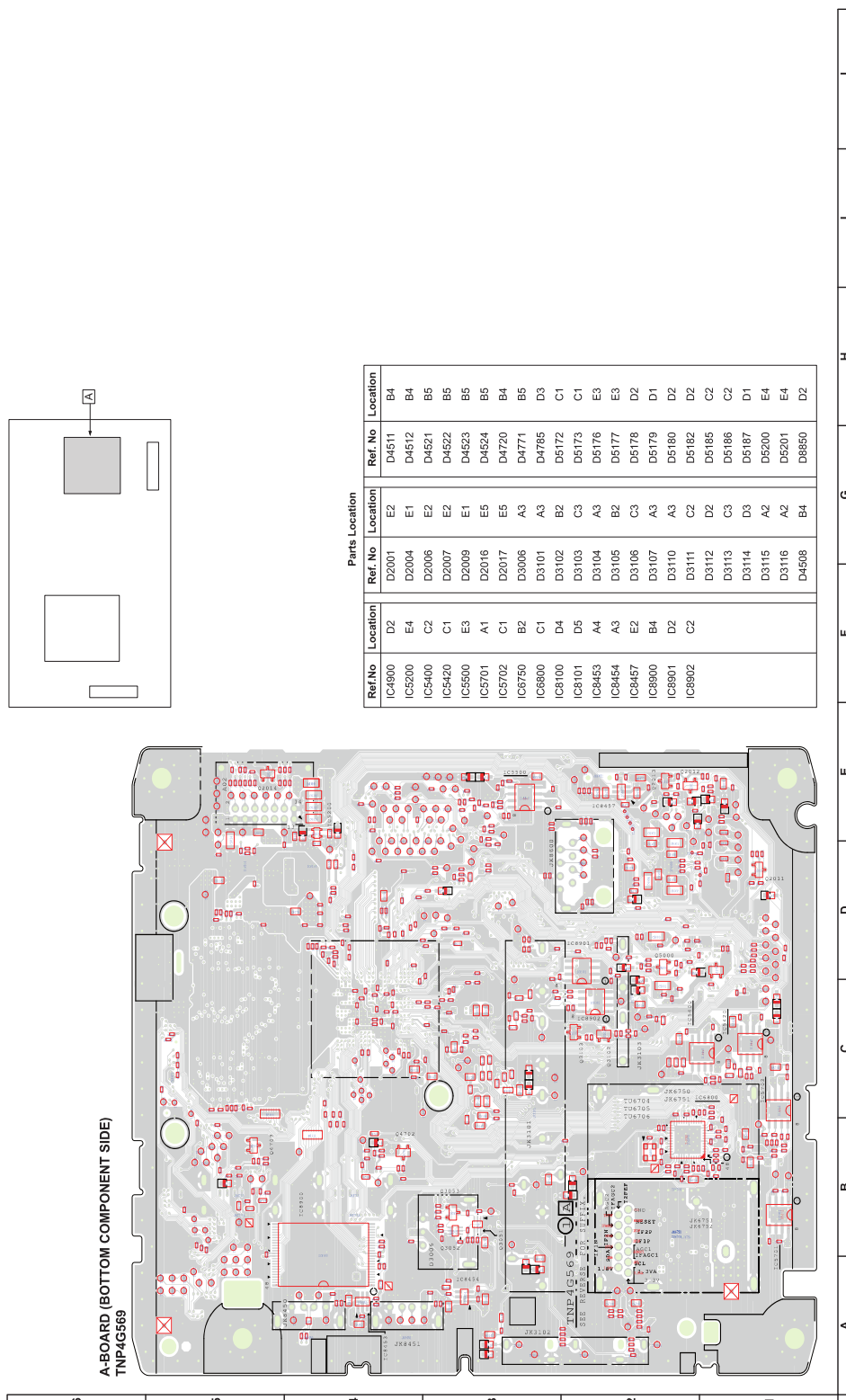
P-BOARD (3/3)

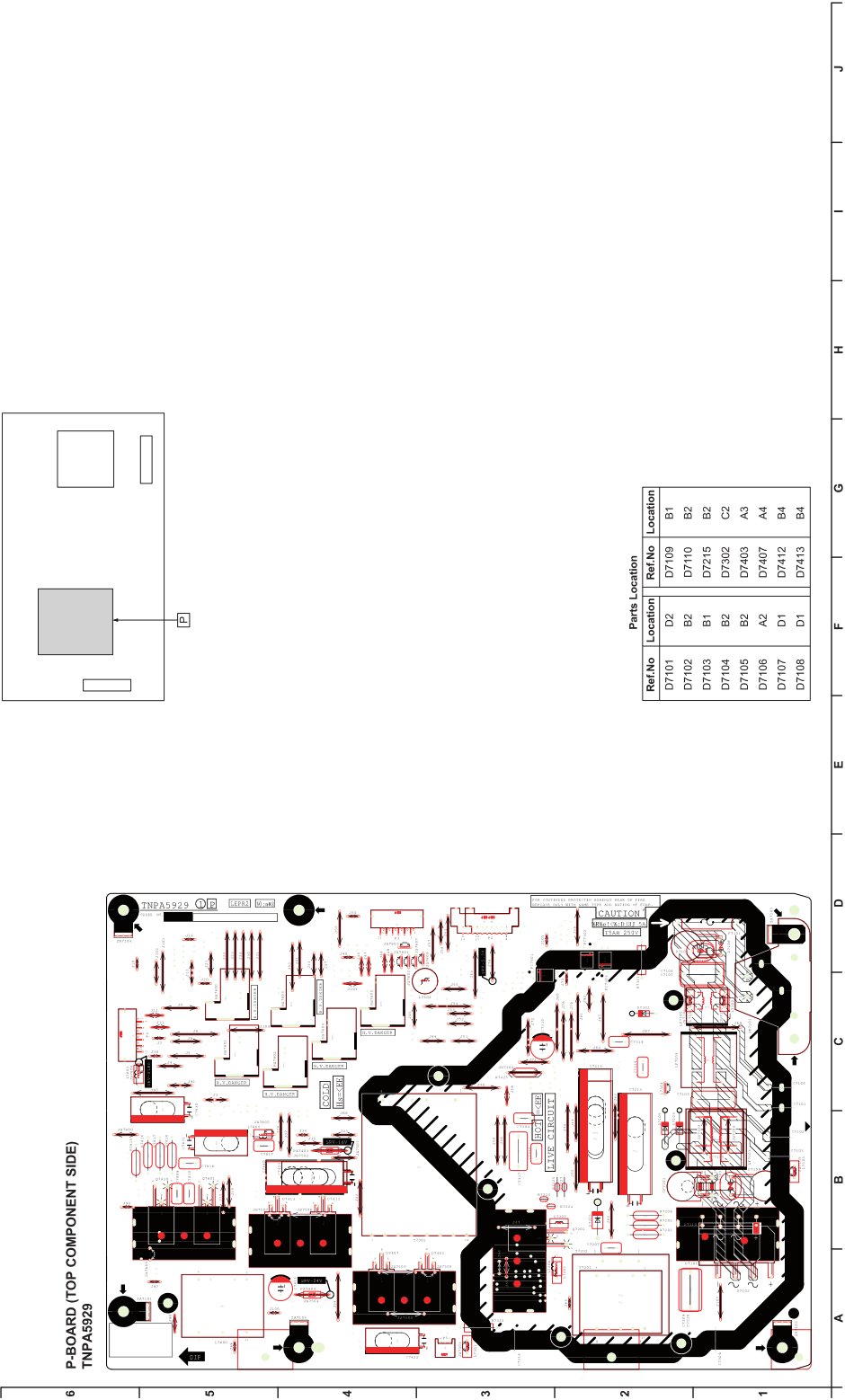


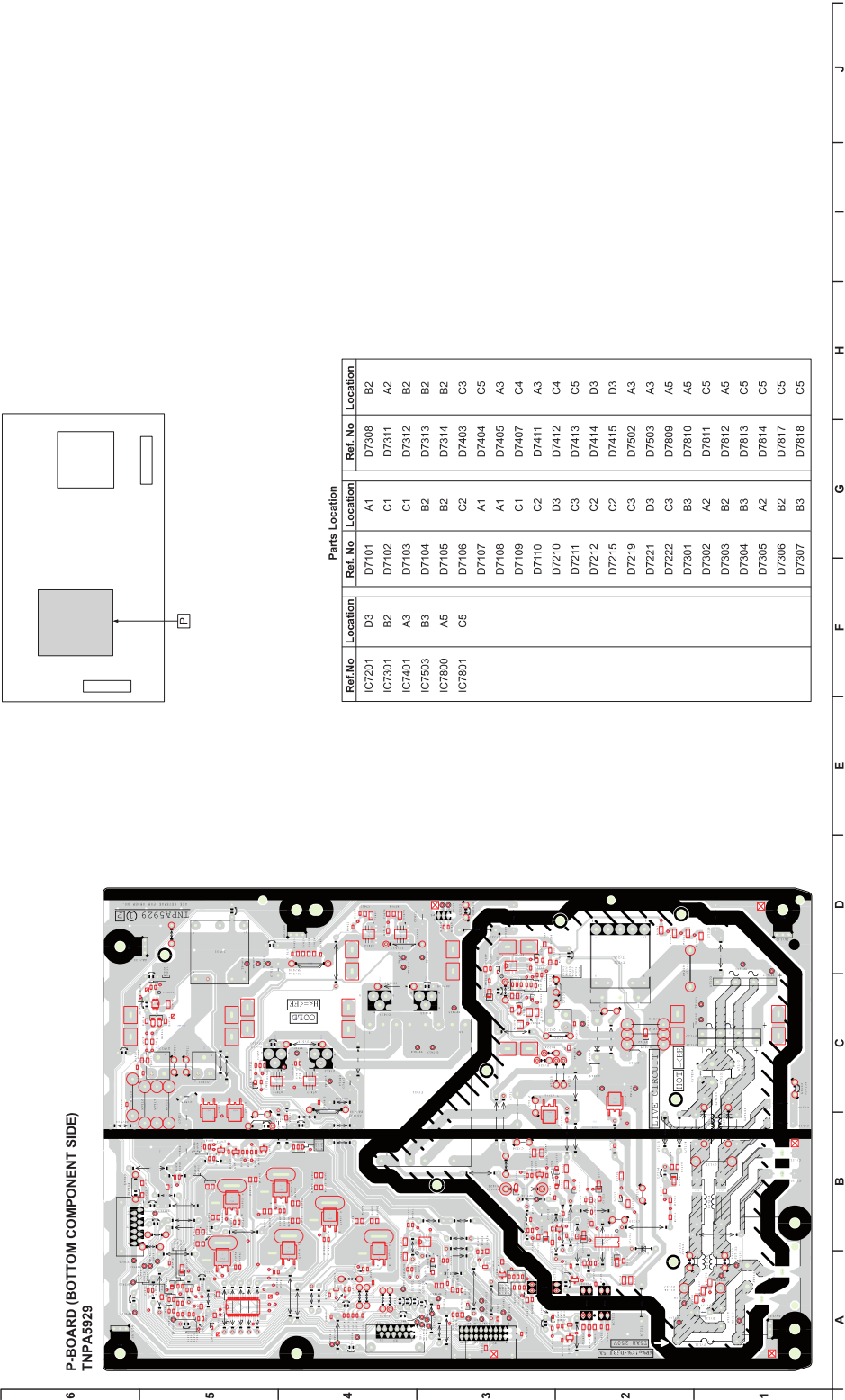
12 Printed Circuit Board

Model No. : TH-50A410R A-Board (Top Component Side)



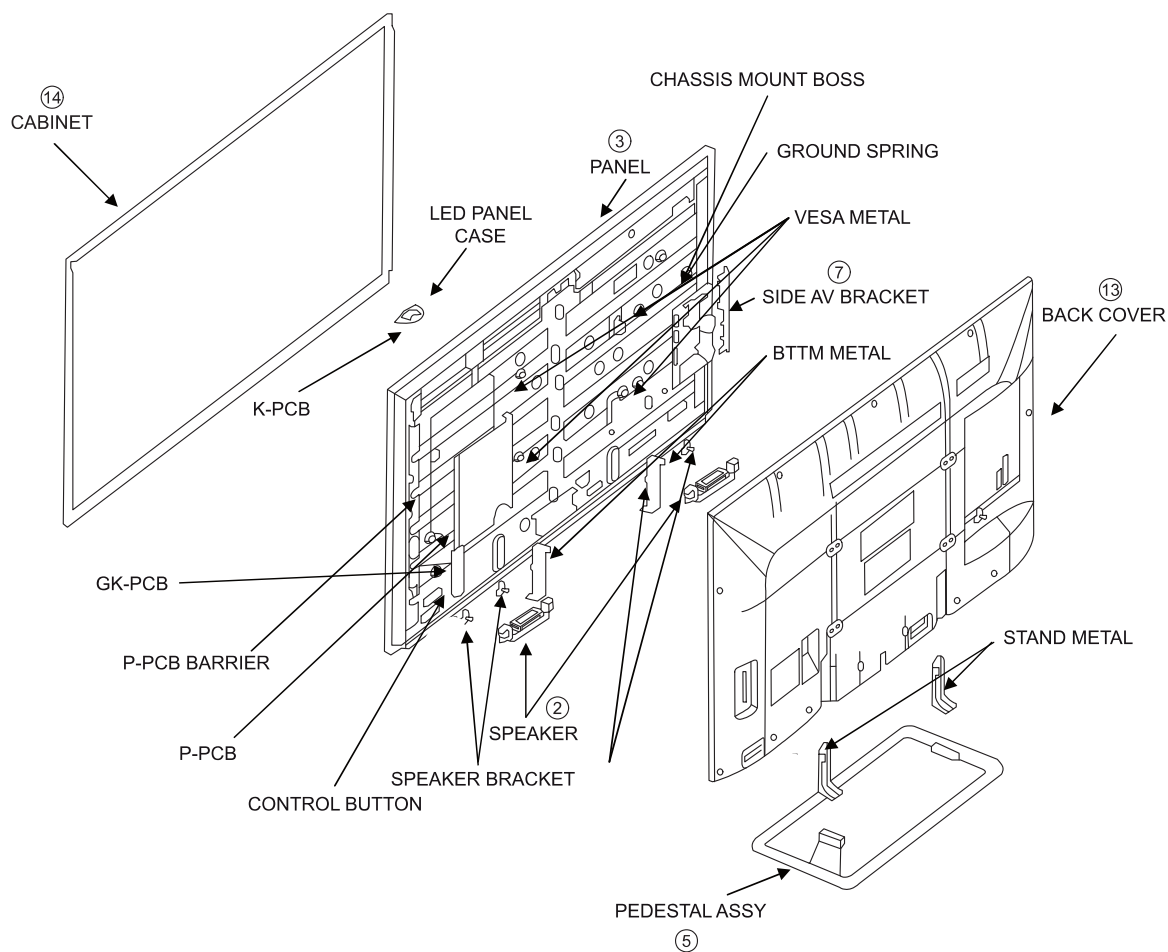






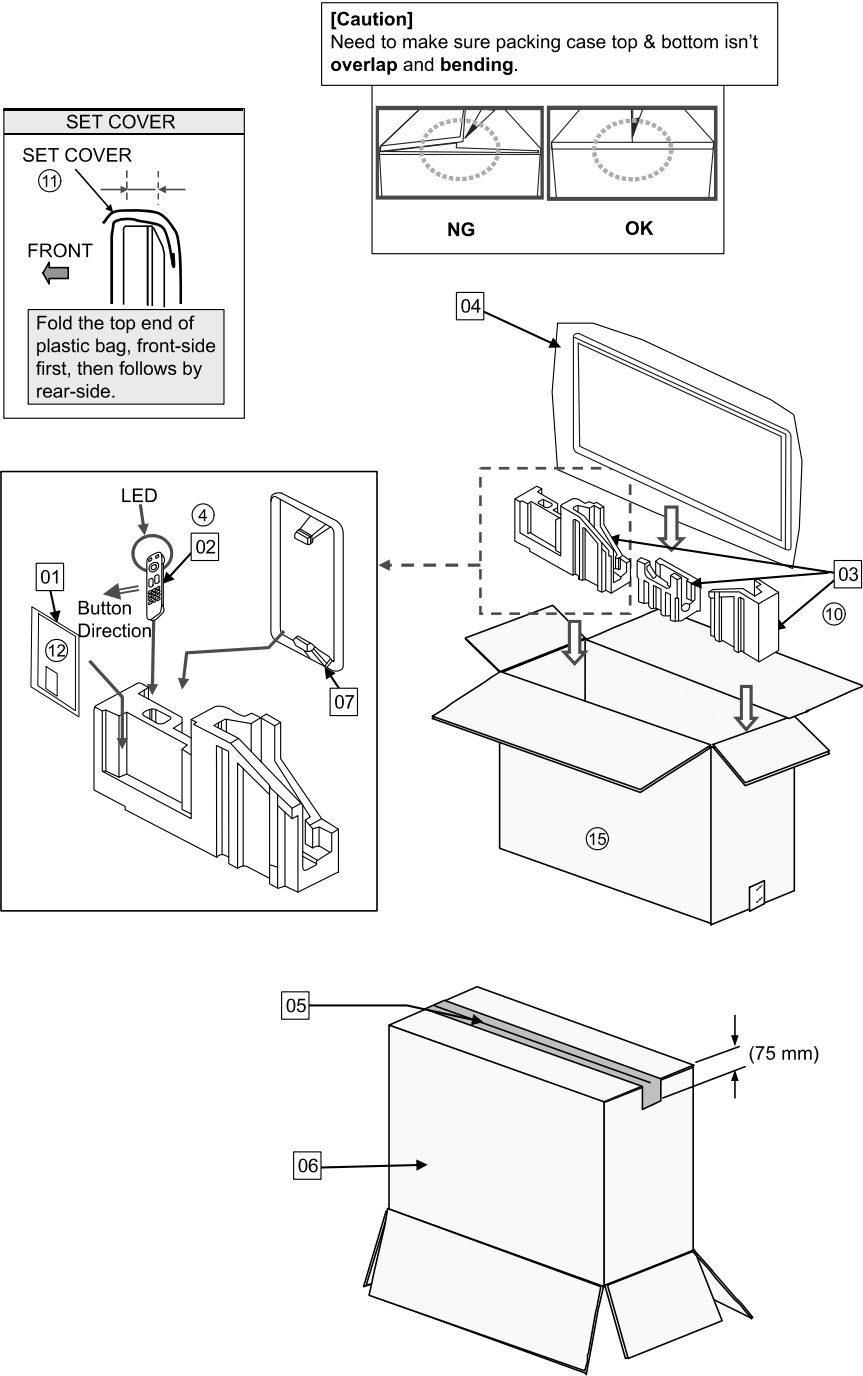
13 Exploded View and Replacement Parts List

Model No. : TH-50A410R Parts Location



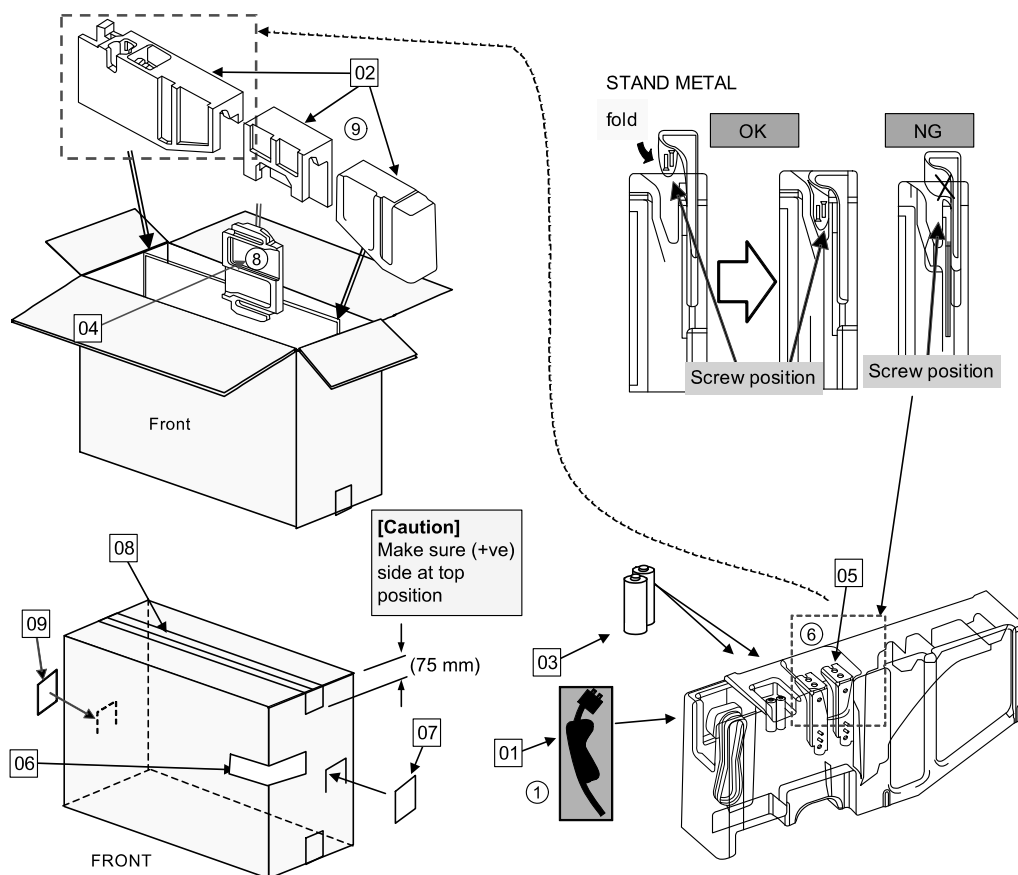
Model No. : TH-50A410R Packing Exploded View 1

NO	QTY	UOM	DESCRIPTION
01	1	PC	FAN_BAG_ASSY
02	1	PC	REMOTE_TRANSMITTER
03	1	PC	CUSHION_BOTTOM
04	1	PC	SET_BAG
05	3	MT	PP_TAPE (TOP1.585/BTM1.585)
06	1	PC	CARTON
07	1	PC	PEDESTAL_ASSY



Model No. : TH-50A410R Packing Exploded View 2

NO	QTY	UOM	DESCRIPTION
01	1	PC	AC CORD
02	1	PC	CUSHION_TOP
03	1	PC	BATTERY
04	1	PC	CUSHION_FRONT
05	1	PC	STAND METAL ASSY
06	1	PC	CARTON_LABEL
07	1	PC	LABEL COMBINATION
08	3.17	MT	PP_TAPE (TOP1.585/BTM1.585)
09	1	PC	CARTON_LABEL



Model No. : TH-50A410R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITORS						
		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	F1J1H104A902	C 0.1UF, 50V		
		C2852	F1J1H104A902	C 0.1UF, 50V		
		C3084	F1H0J105A051	C 1UF, 6.3V		
		C3085	F1H0J105A051	C 1UF, 6.3V		
		C3086	F1H0J105A051	C 1UF, 6.3V		
		C3135	F1G1H471A830	C 470PF, 50V		
		C3136	F1G1H471A830	C 470PF, 50V		
		C3139	F1G1H471A830	C 470PF, 50V		
		C3140	F1G1H471A830	C 470PF, 50V		
		C3145	F1J1A106A043	C 10UF, 10V		
		C3147	F1J1A106A043	C 10UF, 10V		
		C3151	F1H1A105A136	C 1UF, 10V		
		C3152	F1H1A105A136	C 1UF, 10V		
		C3153	F1G1H471A830	C 470PF, 50V		
		C3154	F1G1H471A830	C 470PF, 50V		
		C3171	F1J1A106A043	C 10UF, 10V		
		C3172	F1J1A106A043	C 10UF, 10V		
		C3175	F1J1E105A287	C 1UF, 25V		
		C3176	F1J1A106A043	C 10UF, 10V		
		C3177	F1J1E105A287	C 1UF, 25V		
		C4000	F1H1H103B047	C 0.01UF, 50V		
		C4001	F1H1H103B047	C 0.01UF, 50V		
		C4002	F1J1C475A225	C 4.7UF, 10V		
		C4701	F1H0J105A051	C 1UF, 6.3V		
		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		
		C5000	F1G1A105A080	C 1UF, 10V		
		C5002	F1G1A105A080	C 1UF, 10V		
		C5004	F1G1A105A080	C 1UF, 10V		
		C5006	F1J1E105A287	C 1UF, 25V		

Model No. : TH-50A410R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		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, 16V		
		C5150	F1G1E103A172	C 0.01UF, 25V		
		C5151	F1G1E103A172	C 0.01UF, 25V		
		C5171	F1G1C103A173	C 0.01UF, 25V		
		C5400	F1K1V106A010	C 10UF, 25V		
		C5401	F1K1V106A010	C 10UF, 25V		
		C5402	F1G1C104A146	C 0.1UF 16V		
		C5403	F1J0J2260004	C 22 UF 6.3 V		
		C5404	F1J0J2260004	C 22 UF 6.3 V		
		C5407	F1G1E333A144	C 0.033UF 25V		
		C5408	F1G1H222A830	C 2200PF, 50V		
		C5420	F1K1V106A010	C 10UF, 25V		
		C5421	F1K1V106A010	C 10UF, 25V		
		C5422	F1G1C104A146	C 0.1UF 16V		
		C5423	F1J0J2260004	C 22 UF 6.3 V		
		C5424	F1J0J2260004	C 22 UF 6.3 V		
		C5427	F1G1E333A144	C 0.033UF 25V		
		C5428	F1G1H222A830	C 2200PF, 50V		
		C5500	F1K1V106A010	C 10UF, 25V		
		C5502	F1G1C104A146	C 0.1UF 16V		
		C5503	F1G1C223A146	C 0.022UF, 16V		
		C5505	F1G1E332A144	C 0.33UF, 25V		
		C5507	F1K1V106A010	C 10UF, 25V		
		C5508	F1K1V106A010	C 10UF, 25V		
		C5509	F1K1V106A010	C 10UF, 25V		
		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		
		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		
		C6773	F1G1H102A946	C 1000PF, 50V		
		C6774	F1G1C104A146	C 0.1UF 16V		
		C6775	F1G1C104A146	C 0.1UF 16V		

Model No. : TH-50A410R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6777	F1G0J105A049	C 1UF, 6.3V		
		C6778	F1G1C104A146	C 0.1UF 16V		
		C6799	F1H1H181B052	C 180PF, 50V		
		C6801	F1G0J105A049	C 1UF, 6.3V		
		C6802	F1G1E103A172	C 0.01UF, 25V		
		C6807	F1G1E103A172	C 0.01UF, 25V		
		C6824	F1G1H121A834	C 120PF, 50V		
		C6828	F1G1H102A946	C 1000PF, 50V		
		C7102	F1AAF471A019	C 470PF, 240V		
		C7103	F1AAF471A019	C 470PF, 240V		
		C7104	F0CAF3340009	C 0.33UF, 250V		
		C7105	F0CAF2240010	C 0.22UF, 240V		
		C7201	F1H1H102B052	C 1000PF, 50V		
		C7202	F1H1H102B052	C 1000PF, 50V		
		C7203	F1H1H104B047	C 0.1UF, 50V		
		C7204	F1H1H104B047	C 0.1UF, 50V		
		C7205	F1H1H102B052	C 1000PF, 50V		
		C7206	F1H1H104B047	C 0.1UF, 50V		
		C7207	F1A3A471A060	C 470PF 1KV		
		C7208	F1J1E105A287	C 1UF, 25V		
		C7209	ECWFD2W824KC	C 0.82UF , 240V		
		C7213	F2A2W6500001	C 65UF, 450V		
		C7214	F1J1H103A900	C 0.01UF, 50V		
		C7302	F1J1H104A902	C 0.1UF, 50V		
		C7303	F1J1H104A902	C 0.1UF, 50V		
		C7304	F1A3A221A060	C 220PF 1KV		
		C7305	F1H1H104B047	C 0.1UF, 50V		
		C7306	F1J1H104A902	C 0.1UF, 50V		
		C7307	F1H1H101B052	M 100OHM, J, 1/16W		
		C7309	F1AAF101A019	C 100PF, 50V		
		C7310	F2A1E4710124	C 470UF, 25V		
		C7311	F1J1E105A287	C 1UF, 25V		
		C7312	F1H1C474A178	C 0.47UF, 16V		
		C7313	F1J1H102A909	C 1000pF, 50V		
		C7315	F1A3A101A060	C 100PF 1KV		
		C7316	F1A3A101A060	C 100PF 1KV		
		C7317	ECWH8223HAC	C 0.022UF, Z, 800V		
		C7318	F1AAF471A019	C 470PF, 240V		
		C7319	F1A3A102A060	C 1000PF 1KV		
		C7416	F1J1C475A225	C 4.7UF, 10V		
		C7417	F1H1C474A178	C 0.47UF, 16V		
		C7418	F1H1H104B047	C 0.1UF, 50V		
		C7422	F2A1V6810043	C 680UF , 35V		
		C7423	F2A1E222B927	C 2200UF, 25V		
		C7434	F1J1E105A287	C 1UF, 25V		
		C7439	F1J1C475A225	C 4.7UF, 10V		
		C7522	F1K1E106A167	C 10UF, 25V		
		C7524	F1H1H104B047	C 0.1UF, 50V		
		C7525	F1H1H221B052	C 220PF, 50V		
		C7526	F1J1A106A111	C 10UF, 10V		
		C7530	F1H1H104B047	C 0.1UF, 50V		
		C7531	F1H1H104B047	C 0.1UF, 50V		
		C7801	F1J1E105A287	C 1UF, 25V		
		C7802	F1H1C104A178	C 0.1UF, 16V		
		C7803	F1H1C224A178	C 0.22 uF 16 V		
		C7804	F1H1H103B047	C 0.01UF, 50V		
		C7805	F1H1H103B047	C 0.01UF, 50V		
		C7806	F1J1E105A287	C 1UF, 25V		
		C7807	F1H1C105A179	C 1 uF 16 V		
		C7808	F1H1H102B048	C 1000PF, 50V		
		C7815	F2A1V2710019	C 270UF, 35V		
		C7816	F1H1H102B048	C 1000PF, 50V		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7817	F1A3A471A060	C 470PF 1KV		
		C7818	F1A3A102A060	C 1000PF 1KV		
		C7824	F1H1H102B048	C 1000PF, 50V		
		C7825	F1H1H102B048	C 1000PF, 50V		
		C7828	F1H1H103B047	C 0.01UF, 50V		
		C7829	F1H1H103B047	C 0.01UF, 50V		
		C7830	F2A2A1010047	C 100UF, 100V		
		C7832	F1K1E105A167	C 1UF, 25V		
		C8001	F1G1C104A146	C 0.1UF 16V		
		C8002	F1J1A106A043	C 10UF, 10V		
		C8006	F1G1C104A146	C 0.1UF 16V		
		C8010	F1G1C104A146	C 0.1UF 16V		
		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 22 UF 4 V		
		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, 16V		
		C8102	F1G1C104A146	C 0.1UF 16V		
		C8103	F1K1V106A010	C 10UF, 25V		
		C8105	F1J0G2260001	C 22 UF 4 V		
		C8108	F1G1H471A830	C 470PF, 50V		
		C8109	F1K1V106A010	C 10UF, 25V		
		C8111	F1G1C104A146	C 0.1UF 16V		
		C8112	F1G1C473A146	C 0.047UF, 16V		
		C8114	F1G1E332A144	C 3300PF, 25V		
		C8116	F1J0G2260001	C 22 UF 4 V		
		C8117	F1J0G2260001	C 22 UF 4 V		
		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		

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		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		
		C8314	F1G1A105A047	C 1UF 10V		
		C8315	F1G1A105A047	C 1UF 10V		
		C8461	F1J1A106A043	C 10UF, 10V		
		C8463	F1G1C104A146	C 0.1UF 16V		
		C8467	F1J1A106A043	C 10UF, 10V		
		C8468	F1H1C105A167	C 1UF, 10V		
		C8470	F1G1C104A146	C 0.1UF 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		
DIODES						
		D2001	DZ2J047M0L	DIODE		
		D2004	DZ2J047M0L	DIODE		
		D2006	DZ2J047M0L	DIODE		
		D2007	DZ2J047M0L	DIODE		
		D2008	DZ2J056M0L	DIODE		
		D2009	DZ2J047M0L	DIODE		
		D2800	DZ2J056M0L	DIODE		
		D2802	B3AGB0000060	LED		
		D2851	DZ2J068M0L	DIODE		
		D2852	DZ2J068M0L	DIODE		
		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	ERZE08C621CD	SURGE ABSORBER		
		D7104	B0AAMT000014	DIODE		
		D7105	B0AAMT000014	DIODE		
		D7106	B0EBNT000028	DIODE		
		D7211	B0ACCD000008	DIODE		
		D7215	B0HAPR000013	DIODE		
		D7221	B0ACCD000008	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D7301	DZ2J039M0L	DIODE		
		D7302	B0HAGQ000001	DIODE		
		D7303	DZ2J039M0L	DIODE		
		D7304	B0ECKM000053	DIODE		
		D7305	B0ADCK000001	DIODE		
		D7306	B0BC027A0336	DIODE		
		D7307	B0BC027A0336	DIODE		
		D7308	B0BC027A0336	DIODE		
		D7311	B0BC027A0336	DIODE		
		D7312	B0ACCD000008	DIODE		
		D7313	B0ACCD000008	DIODE		
		D7403	B0JBSL000046	DIODE		
		D7404	DA2J10100L	DIODE		
		D7405	B0ACCD000008	DIODE		
		D7407	B0JBSL000046	DIODE		
		D7411	B0ACCD000008	DIODE		
		D7412	B0JBSL000046	DIODE		
		D7413	B0JBSL000046	DIODE		
		D7502	B0JCPE000051	DIODE		
		D7810	B0ACCD000008	DIODE		
		D7811	B0ECKM000053	DIODE		
		D7813	B0ECKM000053	DIODE		
		D7817	B0JDSL000013	DIODE		
		D7818	B0JDSL000013	DIODE		
		D8000	DA2J10100L	DIODE		
		D8850	B0JCED000012	DIODE		
INTEGRATED CIRCUITS						
		IC3052	C0ABBB000179	IC		
		IC4900	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5400	C0DBAYY01299	IC		
		IC5420	C0DBAYY01299	IC		
		IC5500	C0DBAYY01644	IC		
		IC5704	C0DBEYY00102	IC		
		IC6750	C1AB00004172	IC		
		IC6751	C1AB00004174	IC		
		IC7201	C0DBEYY00058	IC		
		IC7301	C0DBAYY01329	IC		
		IC7401	C0DBZYY00531	IC		
		IC7503	C0DBAYY01915	IC		
		IC7800	C0ZBZ0002164	IC		
		IC7801	C0ZBZ0001936	IC		
		IC8000	MN2WS0275PBS	IC		
		IC8001	C0DBGYY00887	IC		
		IC8100	C0DBAYY01645	IC		
		IC8101	C0DBAYY01644	IC		
		IC8200	C3ABTY000076	IC		
		IC8201	C3ABTY000076	IC		
		IC8454	C0DBZYY00541	IC		
		IC8900	C3FBTY000037	IC		
		IC8900	TVR4G293-AA	ROM VERSION IC (C3FBTY000037)		
		IC8901	C3EBGY000056	IC		
COIL						
		L2300	J0JYC0000464	BEAD CORE		
		L3111	J0JYC0000156	INDUCTOR		
		L3112	J0JYC0000156	INDUCTOR		
		L3113	J0JYC0000156	INDUCTOR		
		L3116	J0JYC0000156	INDUCTOR		
		L4901	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L5400	G1C4R7ZA0311	INDUCTOR		
		L5420	G1C6R8MA0533	INDUCTOR		
		L5500	G1C220MA0445	INDUCTOR		
		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		
		L6778	G1CR22JA0097	COIL		
		L6781	J0JYC0000464	BEAD CORE		
		L7207	EXCELSA35T	BEAD CORE		
		L7208	EXCELSA35T	BEAD CORE		
		L7502	G0C270MA0049	INDUCTOR		
		L7800	G0C470J00005	INDUCTOR		
		L7804	J0JHC0000075	BEAD COIL		
		L7805	J0JHC0000075	BEAD COIL		
		L8001	J0JCC0000287	COIL		
		L8009	J0JYC0000464	BEAD CORE		
		L8013	J0JYC0000464	BEAD CORE		
		L8014	J0JCC0000287	COIL		
		L8100	G1C2R2ZA0311	INDUCTOR		
		L8101	G1C3R3MA0464	INDUCTOR		
		L8461	J0JYC0000464	BEAD CORE		
TRANSISTOR						
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q3102	B1ABCE000015	TRANSISTOR		
		Q3103	B1ABCE000015	TRANSISTOR		
		Q4702	B1ABCF000231	TRANSISTOR		
		Q4709	B1ABCF000231	TRANSISTOR		
		Q4981	B1ABCE000015	TRANSISTOR		
		Q7201	B1CERR000096	TRANSISTOR		
		Q7202	B1ADGE000012	TRANSISTOR		
		Q7301	B1CBRR000002	TRANSISTOR		
		Q7302	B1CBRR000002	TRANSISTOR		
		Q7303	B1ADCE000022	TRANSISTOR		
		Q7401	B1CFJD000007	TRANSISTOR		
		Q7402	B1CHRE000015	TRANSISTOR		
		Q7403	B1CHRE000015	TRANSISTOR		
		Q7404	B1CHRE000015	TRANSISTOR		
		Q7406	B1CFJD000007	TRANSISTOR		
		Q7407	B1ADCE000022	TRANSISTOR		
		Q7800	B1ABCF000231	TRANSISTOR		
		Q7801	B1CERM000047	TRANSISTOR		
		Q7802	B1BDBJ000001	TRANSISTOR		
		Q7803	B1BDBJ000001	TRANSISTOR		
		Q7804	B1BDBJ000001	TRANSISTOR		
		Q7805	B1BDBJ000001	TRANSISTOR		
		Q7806	B1BDBJ000001	TRANSISTOR		
		Q7809	B1BDBJ000001	TRANSISTOR		
		Q7810	B1CERM000047	TRANSISTOR		
RESISTORS						
		R0903	D0GA272JA023	M 2.7KOHM, J, 1/16W		
		R0904	D0GA473JA039	M 47KOHM, J, 1/16W		
		R0905	D0GA101JA039	M 100OHM, J, 1/16W		
		R0906	D0GA101JA039	M 100OHM, J, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R0907	D0GA101JA039	M 100OHM, J, 1/16W		
		R0908	D0GA101JA039	M 100OHM, J, 1/16W		
		R0909	D0GA101JA039	M 100OHM, J, 1/16W		
		R0910	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0911	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0912	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0913	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0932	D0GA220JA023	M22 OHM, J.1/16 W		
		R0933	D0GA220JA023	M22 OHM, J.1/16 W		
		R0936	D0GA220JA023	M22 OHM, J.1/16 W		
		R0937	D0GA220JA023	M22 OHM, J.1/16 W		
		R0938	D0GA101JA039	M 100OHM, J, 1/16W		
		R0939	D0GA101JA039	M 100OHM, J, 1/16W		
		R0940	D0GA101JA039	M 100OHM, J, 1/16W		
		R0945	D0GA101JA039	M 100OHM, J, 1/16W		
		R0946	D0GA101JA039	M 100OHM, J, 1/16W		
		R0947	D0GA101JA039	M 100OHM, J, 1/16W		
		R0948	D0GA101JA039	M 100OHM, J, 1/16W		
		R0950	D0GA101JA039	M 100OHM, J, 1/16W		
		R0951	D0GA101JA039	M 100OHM, J, 1/16W		
		R0953	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0954	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0955	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0956	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0957	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R1951	D0GA680JA023	M 68 OHM, J,1/16W		
		R1953	D0GA103JA039	M 10KOHM,F,1/16W		
		R2000	D0GA823JA023	M 82KOHM, J,1/16W		
		R2003	D0GAR00J0005	M 0 OHM, 1/16W		
		R2008	D0GA473JA039	M 47KOHM, J,1/16W		
		R2013	D0GA101JA039	M 100OHM, J, 1/16W		
		R2014	D0GA101JA039	M 100OHM, J, 1/16W		
		R2016	D0GA122JA023	M 1.2KOHM, J,1/16W		
		R2017	D0GAR00J0005	M 0 OHM, 1/16W		
		R2018	D0GAR00J0005	M 0 OHM, 1/16W		
		R2051	D0GA101JA039	M 100OHM, J, 1/16W		
		R2056	D0GAR00J0005	M 0 OHM, 1/16W		
		R2058	D0GA473JA039	M 47KOHM, J,1/16W		
		R2059	D0GA103JA039	M 10KOHM,F,1/16W		
		R2060	D0GA473JA039	M 47KOHM, J,1/16W		
		R2061	D0GA223JA023	M 22K OHM J 1/16W		
		R2062	D0GA101JA039	M 100OHM, J, 1/16W		
		R2067	D0GA101JA039	M 100OHM, 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	D1BB1821A143	M 1.82KOHM, J, 1/16W		
		R2824	D1BB6800A074	M 68 OHM, J,1/16W		
		R2852	D1BD1911A203	M 1.91KOHM ,F, 1/16W		
		R2853	D1BD3091A203	M 3.09KOHM ,F, 1/16W		
		R2854	D1BD6041A203	M 6.04KOHM ,F, 1/16W		
		R2855	D1BD1692A203	M 16.9KOHM,F.1/16 W		
		R3117	D0GA102JA039	M 1KOHM, J, 1/16W		
		R3118	D0GA473JA039	M 47KOHM, J,1/16W		
		R3132	D0GB103JA065	M 10K OHM J 1/10W		
		R3157	D1HY2204A012	NETWORK RESISTER		
		R3163	D0GA104JA039	M 100OHM, J, 1/16W		
		R3164	D0GA104JA039	M 100OHM, J, 1/16W		
		R3167	D0GA333JA023	M 33KOHM,J,1/16W		
		R3168	D0GA333JA023	M 33KOHM,J,1/16W		
		R3171	D0GA222JA023	M 2.2KOHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R3172	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R3173	D1BB1003A143	M 100KOHM,J,1/8W		
		R3179	D0GA221JA023	M220 OHM, J.1/16 W		
		R3180	D0GA221JA023	M220 OHM, J.1/16 W		
		R3181	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3182	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3183	D1BD75R0A204	M 75OHM ,J, 1/16W		
		R3188	D1BB1003A143	M 100KOHM,J,1/8W		
		R3195	D0GA111JA023	M 110 OHM, J.1/16W		
		R3196	D0GA111JA023	M 110 OHM, J.1/16W		
		R3201	D0GA101JA039	M 100OHM, J, 1/16W		
		R3231	D0GB103JA065	M 10K OHM J 1/10W		
		R3233	D1BB2002A143	M 20KOHM ,F, 1/16W		
		R3234	D1BB2002A143	M 20KOHM ,F, 1/16W		
		R3237	D0GB473JA065	M 47KOHM J. 1/10W		
		R3238	D0GB473JA065	M 47KOHM J. 1/10W		
		R4091	D0GA101JA039	M 100OHM, J, 1/16W		
		R4133	D0GAR00J0005	M 0 OHM, 1/16W		
		R4715	D0GA103JA039	M 10KOHM,F,1/16W		
		R4721	D0GA103JA039	M 10KOHM,F,1/16W		
		R4722	D0GA103JA039	M 10KOHM,F,1/16W		
		R4723	D0GA473JA039	M 47KOHM, J,1/16W		
		R4724	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4725	D0GA473JA039	M 47KOHM, J,1/16W		
		R4731	D0GA103JA039	M 10KOHM,F,1/16W		
		R4739	D0GA220JA023	M22 OHM, J.1/16 W		
		R4748	D0GA680JA023	M 68 OHM, J,1/16W		
		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.1/16 W		
		R4753	D1BA82R0A023	M 82OHM, J,1/16W		
		R4764	D0GA473JA039	M 47KOHM, J,1/16W		
		R4766	D0GA473JA039	M 47KOHM, J,1/16W		
		R4788	D0GA103JA039	M 10KOHM,F,1/16W		
		R4794	D0GA103JA039	M 10KOHM,F,1/16W		
		R4795	D0GA103JA039	M 10KOHM,F,1/16W		
		R4796	D0GA473JA039	M 47KOHM, J,1/16W		
		R4797	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4798	D0GA473JA039	M 47KOHM, J,1/16W		
		R4799	D0GA273JA023	M 27K OHM J ,1/16W		
		R4800	D0GA473JA039	M 47KOHM, J,1/16W		
		R4801	D0GA473JA039	M 47KOHM, J,1/16W		
		R4802	D0GBR00J0004	M 0 OHM J 1/10W		
		R4900	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4906	D0GA103JA039	M 10KOHM,F,1/16W		
		R4907	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4908	D0GA102JA039	M 1KOHM, 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 10KOHM,F,1/16W		
		R4956	D0GA102JA039	M 1KOHM, J, 1/16W		
		R4958	D0GA103JA039	M 10KOHM,F,1/16W		
		R4980	D0GB332JA065	M 3.3KOHM,J,1/10W		
		R4981	D0GA103JA039	M 10KOHM,F,1/16W		
		R4982	D0GA473JA039	M 47KOHM, 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 68KOHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R5003	D0GA103JA039	M 10KOHM,F,1/16W		
		R5006	D0GA103JA039	M 10KOHM,F,1/16W		
		R5007	D0GA103JA039	M 10KOHM,F,1/16W		
		R5009	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R5012	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5030	D0GA103JA039	M 10KOHM,F,1/16W		
		R5031	D0GAR00J0005	M 0 OHM, 1/16W		
		R5032	D0GAR00J0005	M 0 OHM, 1/16W		
		R5100	D0GA101JA039	M 100OHM, J, 1/16W		
		R5101	D0GA473JA039	M 47KOHM, J,1/16W		
		R5102	D0GA473JA039	M 47KOHM, J,1/16W		
		R5104	D0GA103JA039	M 10KOHM,F,1/16W		
		R5152	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R5175	D0GA680JA023	M 68 OHM, J,1/16W		
		R5181	D0GA103JA039	M 10KOHM,F,1/16W		
		R5200	D0GBR00J0004	M 0 OHM J 1/10W		
		R5401	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5402	D1BB9100A143	M 910OHM ,F, 1/16W		
		R5403	D1BB2871A143	M 2.87KOHM ,F, 1/16W		
		R5421	D1BA3302A023	M 33KOHM,F. 1/16 W		
		R5422	D1BB9100A143	M 910OHM ,F, 1/16W		
		R5423	D1BB4871A143	M 4.87KOHM ,F, 1/16W		
		R5500	D1BA4702A023	M 47 KOHM,F,1/16 W		
		R5501	D1BA3601A023	M 3.6KOHM,F 1/16 W		
		R5502	D1BA5102A023	M 51KOHM ,F, 1/16W		
		R5507	D0GA473JA039	M 47KOHM, J,1/16W		
		R5731	D1BA1200A023	M 120 OHM,F,1/16 W		
		R5732	D1BA56R0A023	M 56 OHM,F,1/16 W		
		R6728	D0GAR00J0005	M 0 OHM, 1/16W		
		R6729	D0GAR00J0005	M 0 OHM, 1/16W		
		R6734	D1BA1002A023	M 10KOHM,F,1/16W		
		R6750	D0GA101JA039	M 100OHM, J, 1/16W		
		R6751	D0GA103JA039	M 10KOHM,F,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		
		R6762	D0GA331JA023	M 330 OHM, J,1/16W		
		R6763	ERJ2GEJ240X	M 24 OHM, J,1/16 W		
		R6764	D0GA681JA023	M680 OHM, J,1/16W		
		R6765	D0GA681JA023	M680 OHM, J,1/16W		
		R6766	D0GA102JA039	M 1KOHM, J, 1/16W		
		R7101	D0GF474JA048	M 470KOHM,J,1/3W		
		R7102	D0GF474JA048	M 470KOHM,J,1/3W		
		R7103	D0GF474JA048	M 470KOHM,J,1/3W		
		R7104	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7105	D0GD102JA052	M 1.0KOHM,J,1/8W		
		R7201	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7202	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7203	D1BB5602A143	M 56KOHM ,F, 1/16W		
		R7204	D0GZ181JA020	M 180 OHM,J,1/2W		
		R7205	D0GB101JA065	M 100 OHM,J,1/10W		
		R7206	D0GD4R7JA059	M 4.7 OHM,J,1/4W		
		R7207	D0GB103JA065	M 10K OHM J 1/10W		
		R7208	ERX1SJR22V	M 0.22OHM ,J, 1W		
		R7209	D0GB100JA065	M 10 OHM J 1/10W		
		R7212	D1BB6802A143	M 68 KOHM, J,1/16W		
		R7219	D0GB513JA065	M 51KOHM, F, 1/16W		
		R7220	D0GB223JA065	M 22KOHM,J,1/10W		
		R7224	D1AB2704A023	M 2.7MOHM, J.1/16W		
		R7225	D1AB2704A023	M 2.7MOHM, J.1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7226	D1AB2404A023	M 2.4MOHM ,F, 1/16W		
		R7227	D1AB3004A023	M 3MOHM ,F, 1/16W		
		R7230	D1BB3302A143	M 33 KOHM, J,1/16W		
		R7231	D1BB3602A143	M 36KOHM ,F, 1/16W		
		R7245	D0GF220JA048	M 22 OHM. 1/4W		
		R7246	D0GZ181JA020	M 180 OHM,J,1/2W		
		R7302	D0GF391JA048	M 390 OHM. 1/3W		
		R7303	D0GF391JA048	M 390 OHM. 1/3W		
		R7304	D0GF4R7JA048	M 4.7OHM ,J, 1/16W		
		R7305	D0GF121JA048	M 120OHM ,J, 1/16W		
		R7306	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7307	D0GD562JA052	M 5.6 KOHM,J,1/8W		
		R7308	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7311	D0B1106JA033	M 10MOHM J 1W		
		R7312	D1BB1502A143	M 15KOHM ,F, 1/16W		
		R7314	D0GB104JA065	M 100KOHM J 1/10W		
		R7315	D0GB222JA065	M 2.2KOHM,J,1/10W		
		R7317	D0GB223JA065	M 22KOHM,J,1/10W		
		R7318	D0GB473JA065	M 47KOHM J. 1/10W		
		R7319	D0GB473JA065	M 47KOHM J. 1/10W		
		R7320	D0GB103JA065	M 10K OHM J 1/10W		
		R7321	D0GF220JA048	M 22 OHM. 1/4W		
		R7322	D0GF220JA048	M 22 OHM. 1/4W		
		R7323	D0GB103JA065	M 10K OHM J 1/10W		
		R7324	D0GB103JA065	M 10K OHM J 1/10W		
		R7385	D0GF100JA048	M 10 OHM,J,1/3W		
		R7387	D0GF4R7JA048	M 4.7OHM ,J, 1/16W		
		R7401	D0GB472JA065	M 4.7KOHM, J,1/10W		
		R7402	D0GB103JA065	M 10K OHM J 1/10W		
		R7403	D0GB102JA065	M 1KOHM,J,1/10W		
		R7404	D0GB224JA065	M 220KOHM,J,1/10W		
		R7405	D0GD222JA052	M 2.2KOHM,J,1/8W		
		R7406	D0GB332ZA038	M 3.3KOHM, J,1/16W		
		R7407	D0GB223JA065	M 22KOHM,J,1/10W		
		R7408	D1BB1802A143	M 18K OHM J.1/16W		
		R7409	D0GB104JA065	M 100KOHM J 1/10W		
		R7410	D0GB153JA065	M 15K OHM J 1/10W		
		R7411	D0GB224JA065	M 220KOHM,J,1/10W		
		R7412	D0GB153JA065	M 15K OHM J 1/10W		
		R7416	D0GD103JA052	M 10KOHM,J,1/8W		
		R7417	D0GD103JA052	M 10KOHM,J,1/8W		
		R7420	D0GB473JA065	M 47KOHM J. 1/10W		
		R7421	D0GD124JA052	M 120KOHM,J,1/8W		
		R7425	ERX1SJ1R0V	M 1OHM ,J, 1W		
		R7427	D0GB223JA065	M 22KOHM,J,1/10W		
		R7428	D0GB154JA065	M 150KOHM J 1/10W		
		R7429	D0GB104JA065	M 100KOHM J 1/10W		
		R7430	D0GB104JA065	M 100KOHM J 1/10W		
		R7504	D0GD104JA052	M 100KOHM,J,1/8W		
		R7509	D0GD224JA052	M 220KOHM,J,1/8W		
		R7533	D1BB7872A106	M 78.7KOHM ,F, 1/16W		
		R7534	D1BB1432A106	M 14.3KOHM ,F, 1/16W		
		R7535	D0GB100JA065	M 10 OHM J 1/10W		
		R7536	D0GB514JA065	M 510KOHM ,F, 1/16W		
		R7800	D0GB103JA065	M 10K OHM J 1/10W		
		R7801	D0GB473JA065	M 47KOHM J. 1/10W		
		R7802	D1BD3R30A179	M 3.3OHM, J,1/16W		
		R7803	D1BD3R30A179	M 3.3OHM, J,1/16W		
		R7804	D1BD3R30A179	M 3.3OHM, J,1/16W		
		R7805	D1BD3R30A179	M 3.3OHM, J,1/16W		
		R7806	D1BD3R30A179	M 3.3OHM, J,1/16W		
		R7807	D1BD3R30A179	M 3.3OHM, J,1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7808	D0GB473JA065	M 47KOHM J. 1/10W		
		R7809	D1BB1203A143	M 120KOHM,J,1/8W		
		R7810	D1BB4702A143	M 47KOHM J. 1/10W		
		R7811	D0GB122JA065	M 1.2KOHM J 1/10W		
		R7812	D1BB1503A143	M 150KOHM J 1/10W		
		R7815	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7816	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7817	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7818	ERX1SJR22V	M 0.22OHM ,J, 1/10W		
		R7820	D1BB1403A143	M 140KOHM ,F, 1/16W		
		R7821	D1BB1602A143	M 16K ,F, 1/10W		
		R7822	D0GB114JA065	M 110KOHM ,J, 1/0W		
		R7823	D0GB203JA065	M 20KOHM J 1/10W		
		R7824	D0GD470JA059	M 47 OHM,J,1/4W		
		R7825	D0GB473JA065	M 47KOHM J. 1/10W		
		R7827	D0GD101JA052	M 100 OHM,J,1/8W		
		R7828	D0GBR00J0004	M 0 OHM J 1/10W		
		R7831	D0GBR00J0004	M 0 OHM J 1/10W		
		R7833	D0GD100JA059	M 10 OHM,J,1/4W		
		R7834	D0GBR00J0004	M 0 OHM J 1/10W		
		R7838	D0GB470JA065	M 47 OHM,J,1/10W		
		R7839	D0GB473JA065	M 47KOHM J. 1/10W		
		R7840	D0GB473JA065	M 47KOHM J. 1/10W		
		R7841	D0GB473JA065	M 47KOHM J. 1/10W		
		R7842	D0GB473JA065	M 47KOHM J. 1/10W		
		R7843	D0GB473JA065	M 47KOHM J. 1/10W		
		R7846	D0GB101JA065	M 100 OHM,J,1/10W		
		R7847	D0GB101JA065	M 100 OHM,J,1/10W		
		R7848	D0GB101JA065	M 100 OHM,J,1/10W		
		R7849	D0GB101JA065	M 100 OHM,J,1/10W		
		R7850	D0GB101JA065	M 100 OHM,J,1/10W		
		R7851	D0GB101JA065	M 100 OHM,J,1/10W		
		R7854	D0GD470JA059	M 47 OHM,J,1/4W		
		R7855	D0GD100JA059	M 10 OHM,J,1/4W		
		R7856	D0GB473JA065	M 47KOHM J. 1/10W		
		R7857	D1BB1403A143	M 140KOHM ,F, 1/16W		
		R7858	D0GB473JA065	M 47KOHM J. 1/10W		
		R7864	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7865	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7866	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7867	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7868	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7869	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7870	D1BB3902A143	M 390OHM, J,1/10W		
		R7871	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7872	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7873	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7874	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7875	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7876	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7877	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7878	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7879	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7880	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7881	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R7882	D1BD3R30A179	M 3.3OHM, J,1/10W		
		R8005	D0GA1R1JA023	M 1.1OHM, J,1/16W		
		R8010	D0GA511JA023	M510 OHM, J,1/16W		
		R8011	D0GA104JA039	M 100OHM, J, 1/16W		
		R8102	D1BA4701A023	M 4.7KOHM,F 1/16 W		
		R8103	D1BA2002A023	M 20KOHM ,F, 1/16W		
		R8104	D1BA1802A014	M 18KOHM, F.1/16 W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8200	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8203	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8204	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8205	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8206	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8207	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8208	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8217	D0GA221JA023	M220 OHM, J.1/16 W		
		R8218	D0GA221JA023	M220 OHM, J.1/16 W		
		R8219	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8220	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8221	D0GA103JA023	M10KOHM, J.1/16 W		
		R8230	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8231	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8232	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8233	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8234	D0GA330JA023	M 33 OHM, J,1/16W		
		R8236	D0GA330JA023	M 33 OHM, J,1/16W		
		R8240	D1HY3304A012	NETWORK RESISTER		
		R8241	D1HY3304A012	NETWORK RESISTER		
		R8242	D1HY3304A012	NETWORK RESISTER		
		R8243	D1HY3304A012	NETWORK RESISTER		
		R8244	D1HY3304A012	NETWORK RESISTER		
		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 6.2 KOHM,F.1/16 W		
		R8305	D1BA2491A023	M 2.49KOHM,F,1/16W		
		R8306	D0GA360JA023	M 36 OHM, J,1/16W		
		R8307	D0GA360JA023	M 36 OHM, J,1/16W		
		R8450	D0GA103JA039	M 10KOHM,F,1/16W		
		R8451	D0GA103JA039	M 10KOHM,F,1/16W		
		R8454	D0GA103JA039	M 10KOHM,F,1/16W		
		R8455	D0GA103JA039	M 10KOHM,F,1/16W		
		R8458	D1BA1822A023	M 18.2KOHM,F.1/16 W		
		R8469	D0GA103JA039	M 10KOHM,F,1/16W		
		R8666	D1HY1038A012	NETWORK RESISTER		
		R8800	D0GA103JA039	M 10KOHM,F,1/16W		
		R8803	D0GA103JA039	M 10KOHM,F,1/16W		
		R8816	D0GA103JA039	M 10KOHM,F,1/16W		
		R8818	D0GA103JA039	M 10KOHM,F,1/16W		
		R8819	D0GA103JA039	M 10KOHM,F,1/16W		
		R8820	D0GA103JA039	M 10KOHM,F,1/16W		
		R8830	D0GA103JA039	M 10KOHM,F,1/16W		
		R8850	D0GA331JA023	M 330 OHM, J,1/16W		
		R8851	D1BB7151A143	M 7.15KOHM ,F, 1/16W		
		R8852	D0GA102JA039	M 1KOHM, J, 1/16W		
		R8853	D0GA182JA023	M 1.8KOHM, J,0.063W		
		R8858	D0GA103JA039	M 10KOHM,F,1/16W		
		R8870	D0GA103JA039	M 10KOHM,F,1/16W		
		R8878	D0GA103JA039	M 10KOHM,F,1/16W		
		R8884	D0GA103JA039	M 10KOHM,F,1/16W		
		R8885	D0GA103JA039	M 10KOHM,F,1/16W		
		R8886	D0GA102JA039	M 1KOHM, J, 1/16W		
		R8903	D0GA472JA023	M 4.7KOHM, J,1/16W		
		R8906	D0GA680JA023	M 68 OHM, J,1/16W		
		R8909	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R8910	D0GA103JA039	M 10KOHM,F,1/16W		
		R8911	D1HY1218A012	M 120 OHM,F.1/16 W		
		R8914	D0GA680JA023	M 68 OHM, J,1/16W		

Model No. : TH-50A410R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		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 1KOHM, J, 1/16W		
		R8926	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R8967	D0GA473JA039	M 47KOHM, J,1/16W		
		R959	D0GA220JA023	M22 OHM, J.1/16 W		
		R960	D0GA220JA023	M22 OHM, J.1/16 W		
TRANSFORMER						
		T7201	G4DYA0000496	TRANSFORMER		
		T7301	G4DYA0000566	TRANSFORMER		
OTHERS						
		A02	K1KY14BA0484	CONNECTOR		
		A11	K1KY07BA0483	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A19	K1MY51BA0526	CONNECTOR		
		CF7104	D4CA94R0A001	TERMISTOR		
		F7101	K5E502YYA213	FUSE		
		GK4	K1KY03BA0402	CONNECTOR		
		JA1	D0GDR00J0004	CHIP RESISTOR		
		JA2	D0GDR00J0004	CHIP RESISTOR		
		JA3	D0GDR00J0004	CHIP RESISTOR		
		JA4	D0GDR00J0004	CHIP RESISTOR		
		JA5	D0GDR00J0004	CHIP RESISTOR		
		JA6	D0GDR00J0004	CHIP RESISTOR		
		JA7	D0GDR00J0004	CHIP RESISTOR		
		JA8	D0GDR00J0004	CHIP RESISTOR		
		JK3101	K1U511D00002	AV TERMINAL		
		JK3103	K1U204DA0001	TERMINAL		
		JK4700	K1FY119D0029	TERMINAL		
		JK4701	K1FY119D0029	TERMINAL		
		JK6753	K1ZZ00001557	AV TERMINAL		
		JK7101	K2AAYB000010	AC INLET		
		JK8451	K1FY104B0092	TERMINAL		
		JS0053	D0GAR00J0005	CHIP RESISTOR		
		JS0063	D0GAR00J0005	CHIP RESISTOR		
		JS7406	D0GDR00J0004	CHIP RESISTOR		
		K10	K1KY07BA0483	CONNECTOR		
		LF7103	G0B183G00006	LINE FILTER		
		LF7104	G0B183G00006	LINE FILTER		
		LF7105	G0B350HA0036	LINE FILTER		
		P2A	K1KY14BA0491	CONNECTOR		
		P4	K1KY12B00022	CONNECTOR		
		P5	K1KY03BA0402	CONNECTOR		
		PA7403	K5G103AA0009	FUSE		
		PA7406	ERBRE5R00V	FUSE RESISTOR		
		PC7301	B3PAA0000674	PHOTO COUPLER		
		PC7302	B3PAA0000674	PHOTO COUPLER		
		PC7303	B3PAA0000674	PHOTO COUPLER		
		RM2800	B3RBB0000018	PHOTO DETECTOR		
		SN2800	B3JB00000219	PHOTO DETECTOR		
		SW2851	EVQ11G05R	SWITCH		
		SW2852	EVQ11G05R	SWITCH		
		SW2853	EVQ11G05R	SWITCH		
		SW2854	EVQ11G05R	SWITCH		
		SW2855	EVQ11G05R	SWITCH		
		SW2857	EVQ11G05R	SWITCH		
		X6750	H0J240500067	CRYSTAL OSCILLATOR		
		X8300	H0J250500109	CRYSTAL RESONATOR		
		ZA7101	K4AD01A00004	RUG TERMINAL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		ZA7102	K4AD01A00004	RUG TERMINAL		
		ZA7103	K4AD01A00004	RUG TERMINAL		
		ZA7104	K4AD01A00004	RUG TERMINAL		
		ZA7106	K4AD01A00004	RUG TERMINAL		

Model No. : TH-50A410R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K2CQ2YY00122	AC CORD		
		2	L0EYAA000054	SPEAKER		
		3	L5EDDYY00573	LCD PANEL		
		4	N2QAYB000935	REMOTE TRANSMITTER		
		5	TBL5ZX08771	PEDESTAL ASSY		
		6	TBL5ZX08911	STD METAL ASSY		
			TBM4GD3492	MODEL NAME PLATE		
			TBX5ZA03301	KEY BUTTON BRACKET		
			TKK5ZC50501A	LED PANEL		
		7	TKP5ZA32202	SIDE AV BRACKET		
		8	TPD4GA05131	FRONT CUSHION		
		9	TPD4GA05141	TOP CUSHION		
		10	TPD4GA05151	BOTTOM CUSHION		
		11	TPE4GH064	SET COVER		
		12	TQZ4GB791	FAN BAG ASSY		
			TSCKF0720001	LVDS CABLE		
		13	TTU4GA1236	BACK COVER ASSY		
		14	TTY4GA0338	CABINET ASSY		
		15	TXFPC01ZLUR	PACKING CASE ASSY		
			XSS4+12FJK	SCREW		
			XTS4+10GFN	SCREW (PEDE)		
Electrical Replacement Part List						
		RTL	TXN/K1TQUK	K PRINT		
		RTL	TXN/P1THUK	P PRINT		
		RTL	TXNGK1THUK	GK PRINT		
		RTL	TZT/A1ZLUR	A PRINT ASSY		