website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

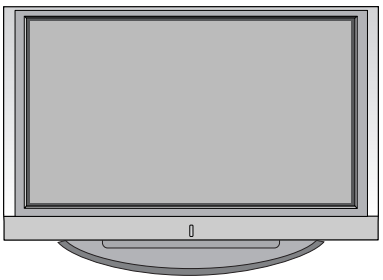
# PLASMA TV
# SERVICE MANUAL

**CHASSIS : PP61A**

## MODEL : 42PC1RV/RVA

## 42PC1RV/RVA-ZJ

**CAUTION**
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



# CONTENTS

# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

### General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

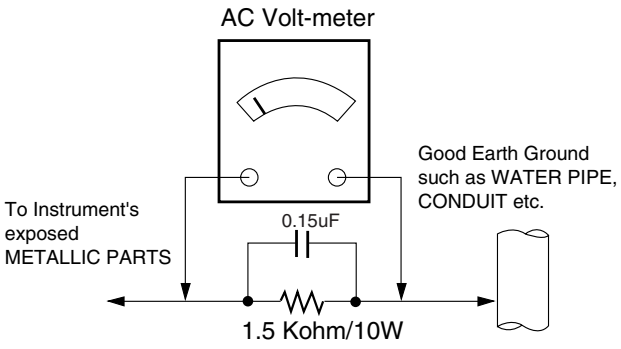
### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.
**Do not use a line Isolation Transformer during this check.**
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



# DESCRIPTION OF CONTROLS

| | |
|---|---|
| POWER | Switches the set on from standby or off to standby. |
| TV INPUT | Returns from **AV1**, **AV2**, **S-Video2**, **AV3**, **AV4**(except 42PC3RV*), **Component**, **RGB**, **HDMI1**/**DVI** or **HDMI 2** to the TV mode. Switches the set on from standby. |
| INPUT | If you press the button once, the input source OSD will appear on screen as shown. Press the ▲ / ▼ button and then **OK** button to select the desired input source (**TV**, **AV1**, **AV2**, **S-Video2**, **AV3**, **AV4**(except 42PC3R*), **Component**, **RGB**, **HDMI1**/**DVI** or **HDMI 2**). |
| ARC | Selects your desired picture format. |
| Brightness adjustment | Adjusts screen brightness. It returns to the default settings brightness by changing mode source. |
| Coloured buttons | These buttons are used for teletext (only **TELETEXT** models) or **Programme edit**. |
| PIP | Switches the sub picture PIP, DW, POP or off mode. |
| SIZE | Adjusts the sub picture size. |
| POSITION | Moves the sub picture. |
| PIP PR - /+ | Selects a programme for the sub picture. |
| PIP INPUT | Selects the input source for the sub picture in PIP/Twin picture mode. |
| VCR/DVD control buttons | Controls some video cassette recorders or DVD players when you have already selected DVD or VCR mode button. |
| EXIT | Clears all on-screen displays and returns to TV viewing from any menu. |
| LIST | Displays the programme table. |
| MENU | Selects a menu. |
| I/II | Selects the sound output. |
| SLEEP | Sets the sleep timer. |

MODE Selects the remote operating modes.

1 TELETEXT BUTTONS These buttons are used for teletext.
For further details, see the 'Teletext' section.

THUMBSTICK (Up/Down/Left Right/ENTER) Allows you to navigate the on-screen menus and adjust the system settings to your preference.

OK Accepts your selection or displays the current mode.

VOLUME UP /DOWN Adjusts the volume.

Q.VIEW Returns to the previously viewed programme.

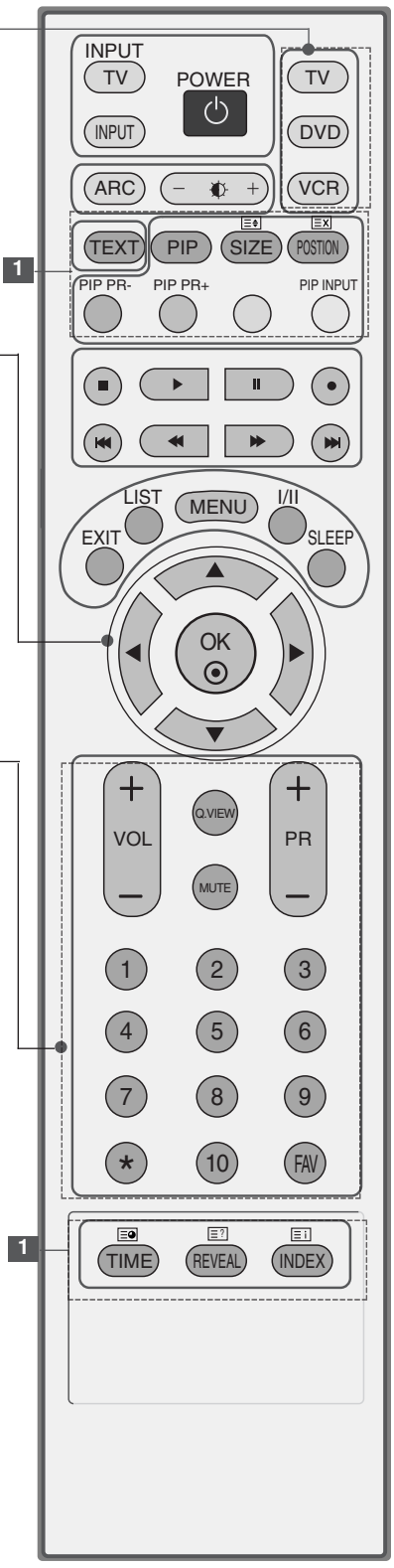
MUTE Switches the sound on or off.

Programme UP/DOWN Selects available programmes.

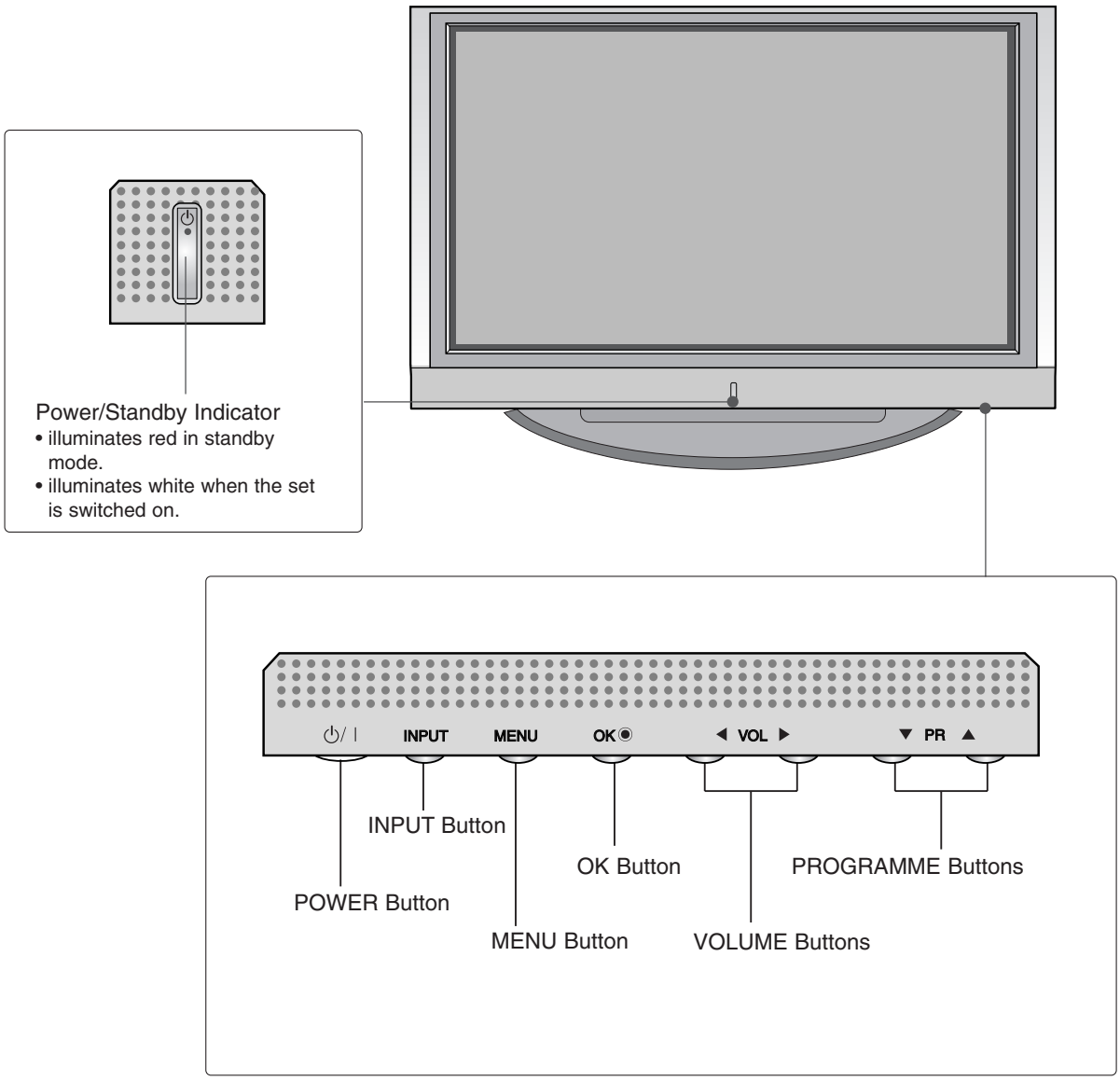
0~9 number button Selects a programme.
Selects numbered items in a menu.

FAV Displays the selected favourite programme.

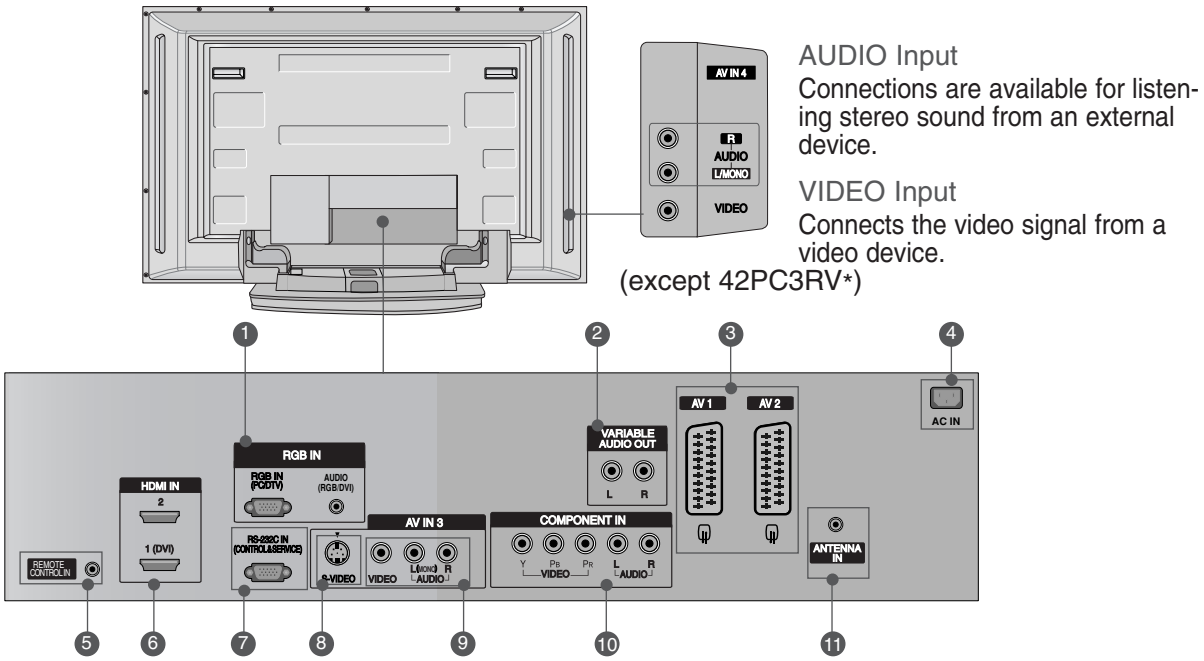
* No function



# Front Panel Controls



## Back Connection Panel




### AUDIO Input
Connections are available for listening stereo sound from an external device.

### VIDEO Input
Connects the video signal from a video device.

(except 42PC3RV*)

1 RGB/Audio Input
Connect the monitor output from a PC/DTV to the appropriate input port.

2 Variable Audio Output
Connect an external amplifier or add a sub-woofer to your surround sound system.

3 Euro Scart Socket (AV1/AV2)
Connect scart socket input or output from an external device to these jacks.

4 Power Cord Socket
This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

5 Remote Control Port

6 HDMI Input
Connect a HDMI signal to HDMI IN.
Connect DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.

7 RS-232C Input(CONTROL&SERVICE)Port
Connect the serial port of the control devices to the RS-232C jack.

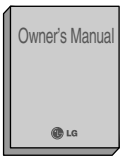
8 S-Video Input
Connect S-Video out from an S-VIDEO device.

9 Audio/Video Input
Connect audio/video output from an external device to these jacks.

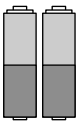
10 Component Input
Connect a component video/audio device to these jacks.

11 Antenna Input

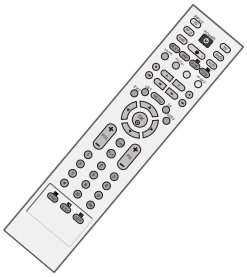
# ACCESSORIES




Owner's Manual



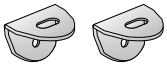
Batteries



Remote Control

Power Cord

**For 42PC1R*, 42PC3R***

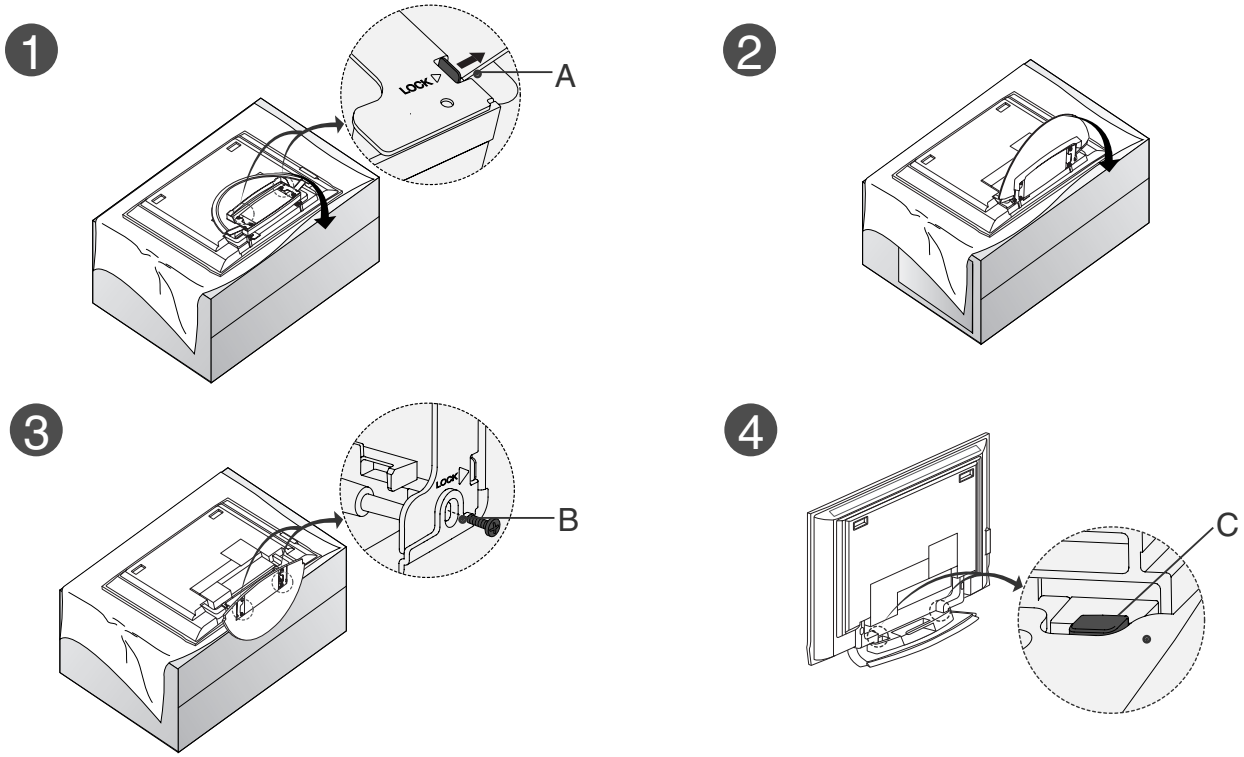


2-Wall brackets

2-eye-bolts

2-bolt for stand assemlby

# STAND INSTALLATION ( OPTION )




- Place the set with the screen facing down on a cushion or soft cloth as shown in Figures 1.
  Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.
- Pull the stand out as shown above in Figures 2 ~ 3.
  After unfolding the stand, please insert and tighten the screws in the holes (B) on the bottom of the stand.
- When connecting cables to the set, Do not disengage the lock (C).
  This may cause the set to fall, causing serious bodily injury and serious damage to the set.

## * NOTE

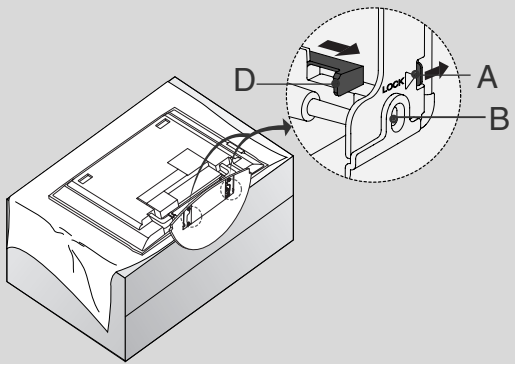
Figures shown here may be slightly different from your set.

**When closing the stand for storage**

First remove the screws in the holes (B) on the bottom of the stand. And then pull two Hooks (D) of the stand bottom

and fold the stand into the back of the set.

After folding, push two Locks (A) of the stand bottom outward.



# SPECIFICATIONS

**NOTE :** Specifications and others are subject to change without notice for improvement.

## ■ Application Range

This spec is applied to the 42" PDP TV used PP61A Chassis.

| Chassis | Model Name | Market Place | Brand | Remark |
|---|---|---|---|---|
| PP61A | 42PC1RV/RVA-ZJ | EU | LG | |

## ■ Specification

Each part is tested as below without special appointment.

1) Temperature : 25±5°C (77±9°F), CST : 40±5
2) Relative Humidity: 65±10%
3) Power Voltage: Standard Input voltage (100-240V~, 50/60Hz)
   * Standard Voltage of each product is marked by models.
4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.
5) The receiver must be operated for about 20 minutes prior to the adjustment.

## ■ Test Method

1) Performance : LGE TV test method followed.
2) Demanded other specification
   Safety : CE, IEC specification
   EMC : CE, IEC

| Model | Market | Appliance |
|---|---|---|
| 42PC1RV/RVA-ZJ | EU | Safety : IEC/EN60065, EMI : EN55013, EMS : EN55020 |

## ■ General Specification

**1. Module Specification( 42"VGA(V8) MODULE )**

| No | Item | Specification | Remark |
|---|---|---|---|
| 1 | Display Screen Device | 42 inch wide Color Display Module | PDP |
| 2 | Aspect Ratio | 16:9 | |
| 3 | PDP Module | PDP42V8,<br>RGB Closed Type | Film Filter |
| 4 | Operating Environment | 1)Temp. : 0~40deg<br>2)Humidity : 0~85% | LGE SPEC. |
| 5 | Storage Environment | 3)Temp. : -20~60deg<br>4)Humidity : 0~85% | |
| 6 | Input Voltage | AC100~240V, 50/60Hz | Maker : LG |

**2. Model General Specification**

| No | Item | Specification | | | Remark |
|---|---|---|---|---|---|
| 1 | Market | EU | | | |
| 2 | Broadcasting system | PAL-BG/I/DK, NTSC | | | |
| 3 | Available Channel | BAND | PAL | NTSC | |
| | | VHF/UHF | C1~C69 | 2~83 | |
| | | CATV | S1~S47 | 1~71 | |
| 4 | Receiving system | Upper Heterodyne | | | |
| 5 | SCART Jack(2EA) | PAL, SECAM, NTSC | | | 4 System : PAL, SECAM, NTSC, PAL60 |
| 6 | Video Input (2EA) | PAL, SECAM, NTSC | | | 4 System : PAL, SECAM, NTSC, PAL60 |
| 7 | S-Video Input (1EA) | PAL, SECAM, NTSC | | | 4 System : PAL, SECAM, NTSC, PAL60 |
| 8 | Component Input (1EA) | Y/Cb/Cr, Y/Pb/Pr | | | |
| 9 | RGB Input(1EA) | RGB-PC,<br>RGB-DTV | | | |
| 10 | HDMI Input(1EA) | HDMI-DTV | | | |
| 11 | Audio Input (4EA) | PC Audio, Component(1EA), AV (2EA) | | | L/R Input |
| 12 | Wired Control(1EA) | | | | |
| 13 | Audio variable out(1EA) | | | | |

# ADJUSTMENT INSTRUCTIONS

## 1. Application Object

These instructions is applied all of the 42” PDP TV, PP61A Chassis.

## 2. Specification

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
(2) Adjustment must be done in the correct order.
(3) The adjustment must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver must keep 100-220V, 50/60Hz.
(5) The receiver must be operated for about 15 minutes prior to the adjustment.

● After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
● Enter into HEAT-RUN MODE
1) Press the POWER ON KEY on R/C for adjustment.
2) OSD display and screen display PATTERN MODE.

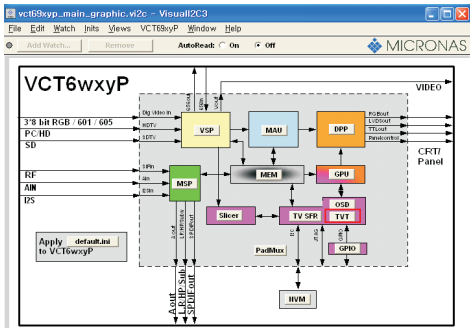
※ Set is activated HEAT-RUN without signal generator in this mode.
※ Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

*Caution) If you turn on a still screen more than 20 minutes, (Especially digital pattern, cross hatch pattern) after image may be occur in the black level part of the screen.*

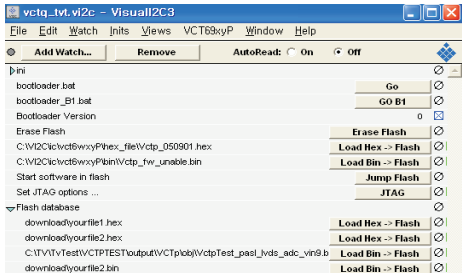
## 3. S/W program download

### 3-1. Preliminary steps

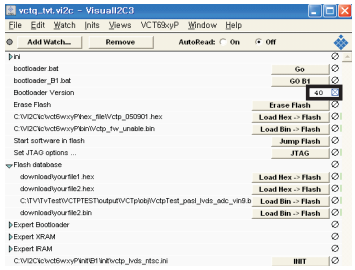
(1) Connect the download jig to D-sub jack.
(2) Connect SCL with GND using switch at Jig.
(3) Supply 5V and GND at PCB assembly.
(4) Wait 3 second.
(5) Disconnect SCL with GND using switch at Jig.
(6) Execute ‘vct69xyp_main_graphic.vi2c’ program in PC, then a main widow will be opened.



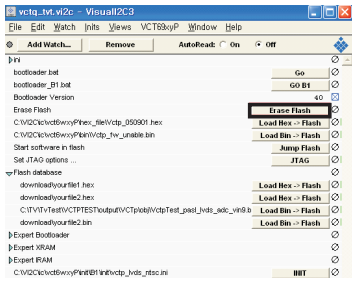

(7) Click “TVT” button, then the TVT window will be opened.



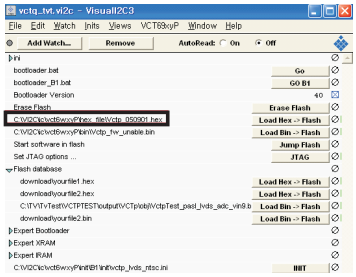

(8) Double click the blue box and confirm “Bootloader Version” as 40.



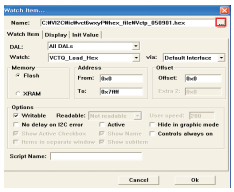

(9) Click the “Erase Flash” button.



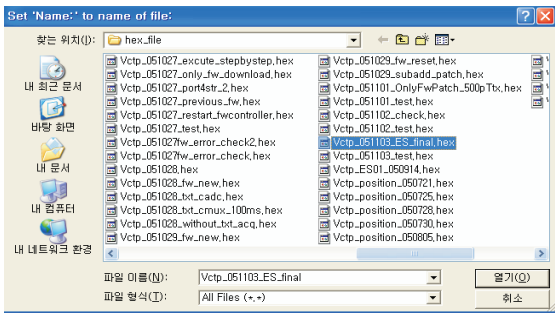

(10) Double click the download file low then, “edit” window will be opened.



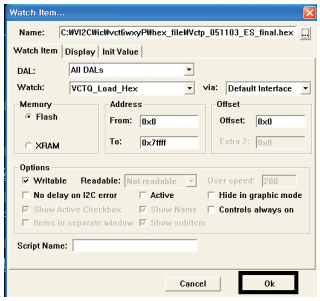

(11) Chick the choice button I n the “edit window”, then “file choice window” will be opened.



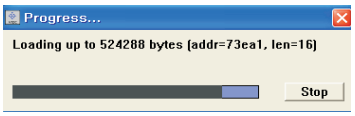
(12) Choose the Hex file in folder and execute downloading with click “open button”.



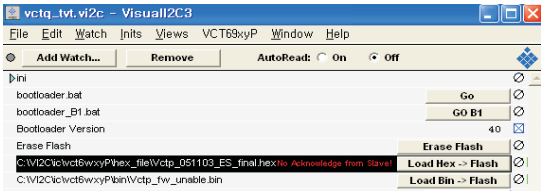

(13) Click OK button at the “edit window”.




(14) Under Downloading progress.

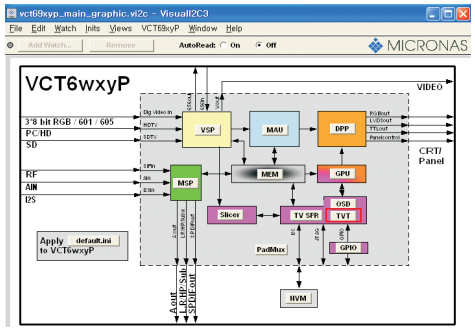



(15) If download is failed, for example “No acknowledge from slave”, execute download again from (1).

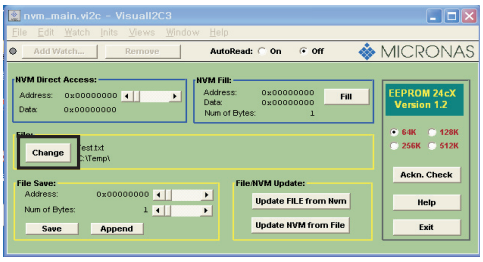



# 4. Channel memory download

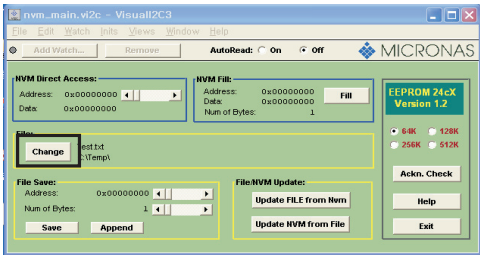
(1) Push the NVM button.




(2) Push the button change and select the Channel memory data.




(3) Push the Update NVM from File.




# 5. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage adjustments)

## 5-1. Test Equipment : D.M.M. 1EA

## 5-2.Connection Diagram for Measuring

: refer to Fig.1

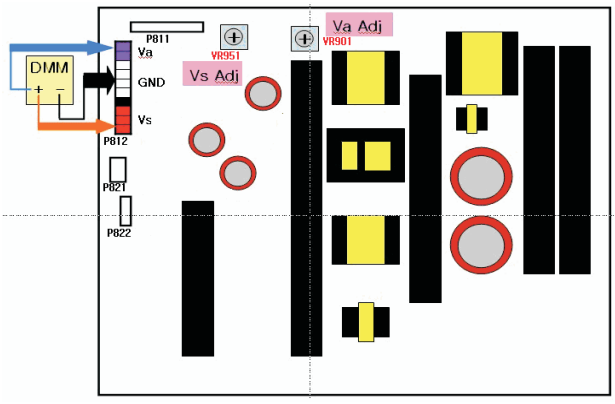
## 5-3. Adjustment Method (Power board - P/N : 6709900019A)

### (1) Va Adjustment

1) After receiving 100% Full White Pattern, HEAT RUN.
2) Connect + terminal of D. M..M. to Va pin of P812, connect -terminal to GND pin of P812.
3) After turning RV901,voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (deviation; ±0.5V)

### (2) Vs Adjustment

1) Connect + terminal of D.M..M. to Vs pin of P851, connect -terminal to GND pin of P812.
2) After turning RV 951, voltage of D.M.M adjustment as same as Vs voltage which on label of panel right/top. (deviation ; ±0.5V)



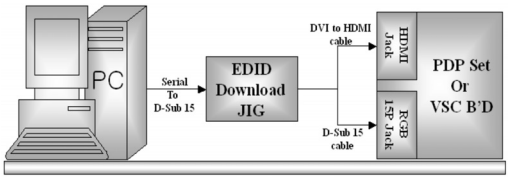

(Fig. 1) Connection diagram of power adjustment for measuring.

# 6. EDID (The Extended Display Identification Data)/ DDC (Display Data Channel) download

## 6-1. Required Test Equipment

1) Adjusting PC with S/W for writing EDID Data.(S/W : EDID TESTER Ver.2.5).
2) A Jig for EDID Download.
3) Cable : Serial(9Pin or USB) to D-sub 15Pin cable, D-sub 15Pin cable, DVI to HDMI cable.

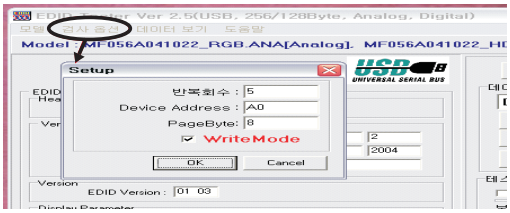
## 6-2. Setting of device




(Fig. 2) Connection Diagram of DDC download

## 6-3. Preparation for Adjustment

1) As above Fig.2, Connect the Set, EDID Download Jig, PC & Cable.
2) Turn on the PC & EDID Download Jig. And Execute the S/W : EDID TESTER Ver,2.5.
3) Set up S/W option.
   **Repeat Number : 5**
   **Device Address : A0**
   **PageByte : 8**

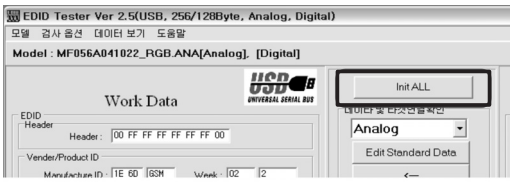



4) Power on the Set.

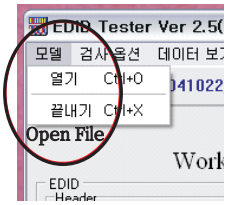
## 6-4. Sequence of Adjustment

### (1) DDC data of Analog-RGB

1) Init the data.



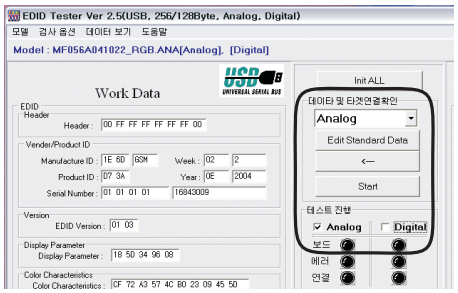

2) Load the EDID data.(Open File).



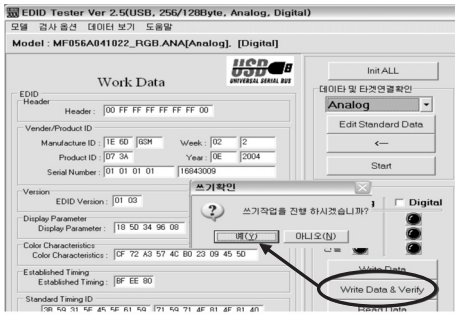

[Analog-RGB : PP61A/C_RGB.ANA]

[Digital-HDMI : PP61A/C_HDMI.DVI]

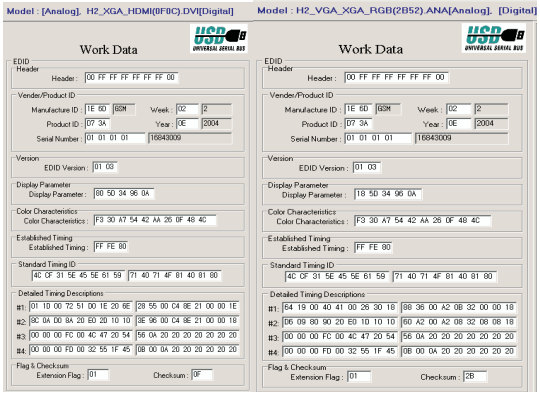
3) Set the S/W as below.




4) Push the “Write Data & Verify”button. And confirm “Yes”.




5) If the writing is finished, you will see the “OK” message.




<EDID DATA Analog Set 128bytes> : 42PC(1/3)RV-TJ

| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | D7 | 3A | 01 | 01 | 01 | 01 |
| 10 | 02 | 10 | 01 | 03 | 18 | 5C | 34 | 96 | 0A | F3 | 30 | A7 | 54 | 42 | AA | 26 |
| 20 | 0F | 48 | 4C | A1 | 08 | 00 | 31 | 40 | 01 | 01 | 45 | 40 | 01 | 01 | 61 | 40 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | D5 | 09 | 80 | A0 | 20 | E0 | 2D | 10 | 08 | 60 |
| 40 | 22 | 00 | 98 | 06 | 32 | 08 | 08 | 18 | 64 | 19 | 00 | 40 | 41 | 00 | 26 | 30 |
| 50 | 18 | 88 | 36 | 00 | 98 | 06 | 32 | 00 | 00 | 18 | 00 | 00 | 00 | FC | 00 | 4C |
| 60 | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FD |
| 70 | 00 | 30 | 3E | 1E | 32 | 08 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 01 | 4B |
| 80 | 02 | 03 | 1C | 72 | 23 | 09 | 07 | 02 | 49 | 07 | 16 | 81 | 03 | 05 | 14 | 13 |
| 90 | 12 | 04 | 83 | 01 | 00 | 00 | 65 | 03 | 0C | 00 | 10 | 00 | 01 | 1D | 80 | 18 |
| A0 | 71 | 1C | 16 | 20 | 58 | 2C | 25 | 00 | C4 | 8E | 21 | 00 | 00 | 9E | 01 | 1D |
| B0 | 80 | D0 | 72 | 1C | 16 | 20 | 10 | 2C | 25 | 80 | C4 | 8E | 21 | 00 | 00 | 9E |
| C0 | 01 | 1D | 00 | BC | 52 | D0 | 1E | 20 | B8 | 28 | 55 | 40 | C4 | 8E | 21 | 00 |
| D0 | 00 | 1E | 8C | 0A | D0 | 90 | 20 | 40 | 31 | 20 | 0C | 40 | 55 | 00 | C4 | 8E |
| E0 | 21 | 00 | 00 | 18 | 01 | 1D | 00 | 72 | 51 | D0 | 1E | 20 | 6E | 28 | 55 | 00 |
| F0 | C4 | 8E | 21 | 00 | 00 | 1E | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 2F |

<EDID DATA Analog Set 256bytes>

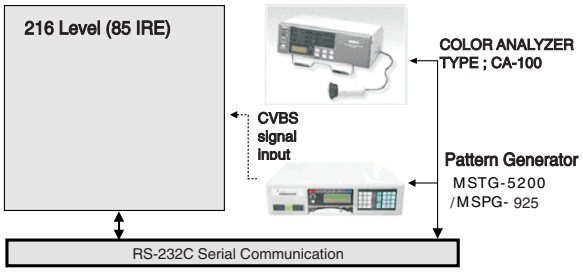
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | D7 | 3A | 01 | 01 | 01 | 01 |
| 10 | 02 | 10 | 01 | 03 | 80 | 5C | 34 | 96 | 0A | F3 | 30 | A7 | 54 | 42 | AA | 26 |
| 20 | 0F | 48 | 4C | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 | 3E |
| 40 | 96 | 00 | C4 | 8E | 21 | 00 | 00 | 18 | 00 | 00 | 00 | FC | 00 | 4C | 47 | 20 |
| 50 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FD | 00 | 2D |
| 60 | 41 | 19 | 30 | 08 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | 00 |
| 70 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 55 |
| 80 | 02 | 03 | 1C | 72 | 23 | 09 | 07 | 02 | 49 | 07 | 16 | 81 | 03 | 05 | 14 | 13 |
| 90 | 12 | 04 | 83 | 01 | 00 | 00 | 65 | 03 | 0C | 00 | 10 | 00 | 01 | 1D | 80 | 18 |
| A0 | 71 | 1C | 16 | 20 | 58 | 2C | 25 | 00 | C4 | 8E | 21 | 00 | 00 | 9E | 01 | 1D |
| B0 | 80 | D0 | 72 | 1C | 16 | 20 | 10 | 2C | 25 | 80 | C4 | 8E | 21 | 00 | 00 | 9E |
| C0 | 01 | 1D | 00 | BC | 52 | D0 | 1E | 20 | B8 | 28 | 55 | 40 | C4 | 8E | 21 | 00 |
| D0 | 00 | 1E | 8C | 0A | D0 | 90 | 20 | 40 | 31 | 20 | 0C | 40 | 55 | 00 | C4 | 8E |
| E0 | 21 | 00 | 00 | 18 | 01 | 1D | 00 | 72 | 51 | D0 | 1E | 20 | 6E | 28 | 55 | 00 |
| F0 | C4 | 8E | 21 | 00 | 00 | 1E | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 2F |

# 7. Adjustment of White Balance

## 7-1. Required Equipment

1) Remote controller for adjustment.
2) Color Analyzer (CA-100 or same product).
3) Auto W/B adjustment instrument(only for Auto adjustment).
4) AV Pattern Generator.

## 7-2. Connecting diagram of equipment for measuring (For Auto Adjustment)




(Fig. 3) Connection Diagram of Auto W/B Adjustment

◆ Auto adjustment Map(RS-232C)

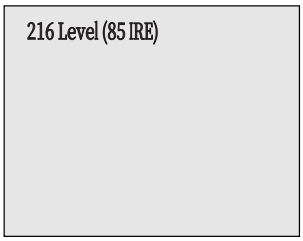
| Type | | PP61C : 42PC1RV-TJ | | | | |
|---|---|---|---|---|---|---|
| Baud Rate | | Data bit | | Stop bit | | Parity |
| 115200 | | 8 | | 1 | | NONE |
| Protocol Setting | Index | Cmd1 | Cmd2 | Data | Min Value | Max Value |
| | R Gain | j | a | | 00(00) | 255(FF) |
| | G Gain | j | b | | 00(00) | 255(FF) |
| | B Gain | j | c | | 00(00) | 255(FF) |
| | R Offset | j | d | | 00(00) | 255(FF) |
| | G Offset | j | e | | 00(00) | 255(FF) |
| | B Offset | j | f | | 00(00) | 255(FF) |

## 7-3. Adjustment of White Balance (For Manual adjustment)

- Operate the zero-calibration of the CA-100, then stick sensor to PDP module surface when you adjust.
- For manual adjustment, it is also possible by the following sequence.

1) Select white pattern of heat-run mode by pressing power on key on remote control for adjustment then operate heat run more than 15 minutes.
2) As below Fig.3, Supply 216Level (85 IRE) full screen pattern to Video input.
   Side AV type (42PC1R-ZJ : AV3(Input 50Hz),
   42PC1RV-TJ : AV1(Input 50Hz),
   42PC3RV-TJ : AV1(Input 50Hz))
3) Press the TV/AV KEY on R/C for converting input mode.
4) Set the PSM to Standard mode in Picture menu.
5) Enter the White Balance adjustment mode by pressing the INSTART key twice(White Balance) on R/C.
6) Stick sensor to center of the screen and select each items (Red/Green/Blue Gain and Offset) using ▲/▼(CH +/-) key on R/C.
7) Adjust Only High Light with R Gain/ B Gain using ◄/► (VOL+/-) key on R/C.
8) Adjust it until color coordination becomes as below.

[PP61A : 42PC1RV-ZJ/TJ] - VGA 42”
Brightness : High Light : 80 ± 20cd/m2
Color-Coordinate : High Light : X : 0.283 ± 0.003
Y : 0.298 ± 0.003
Color Temperature : 9,300°K ± 500°K




(Fig. 4) Pattern for Adjustment of White Balance

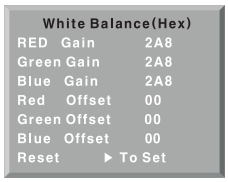
9) When adjustment is completed, Exit adjustment mode using EXIT key on R/C.

# 8. Input the Shipping Option Data

1) Push the IN-START key in a Adjust Remocon.
2) Input the Option Number that was specified in the BOM, into the Shipping area.
3) The work is finished, Push ■ Key.

# 9. Default value in adjustment mode

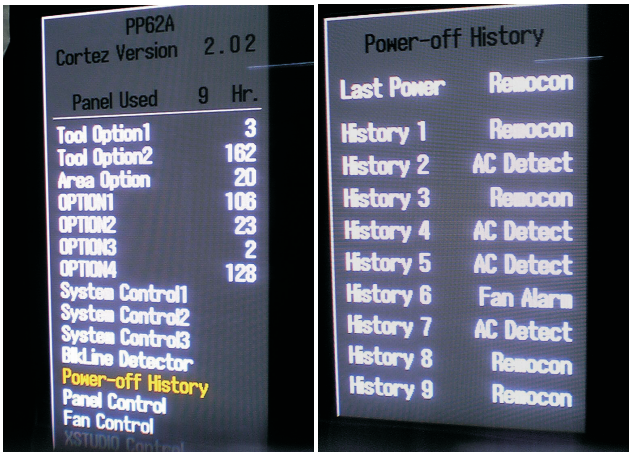
## 9-1. White Balance




(Fig. 5) Default Value on OSD.

# 10. Power-off History

1) This function indicated Power off history.
2) You can go into this mode by ADJ key in ADJ remocon.

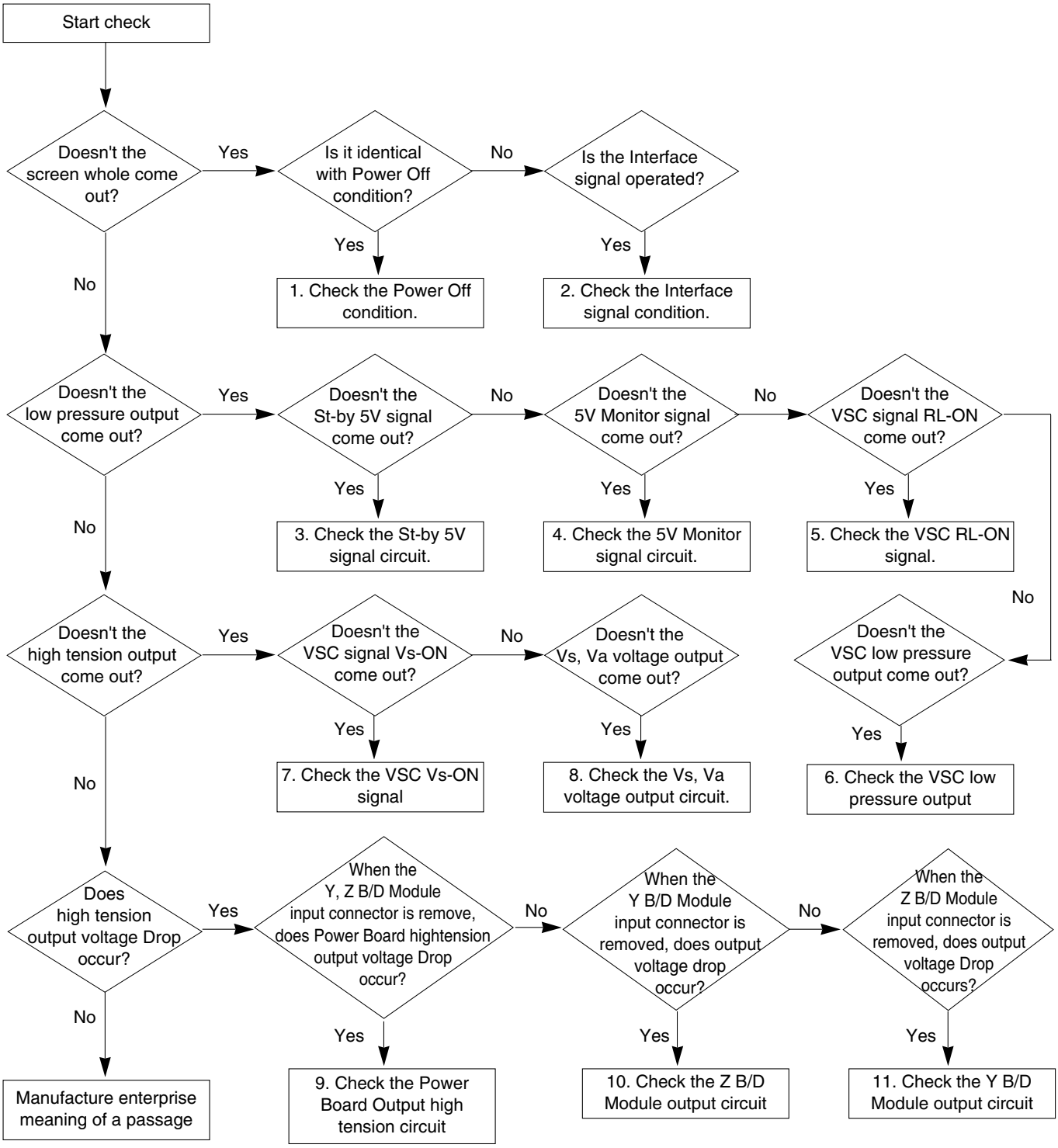



(Fig. 6) Power-off History.

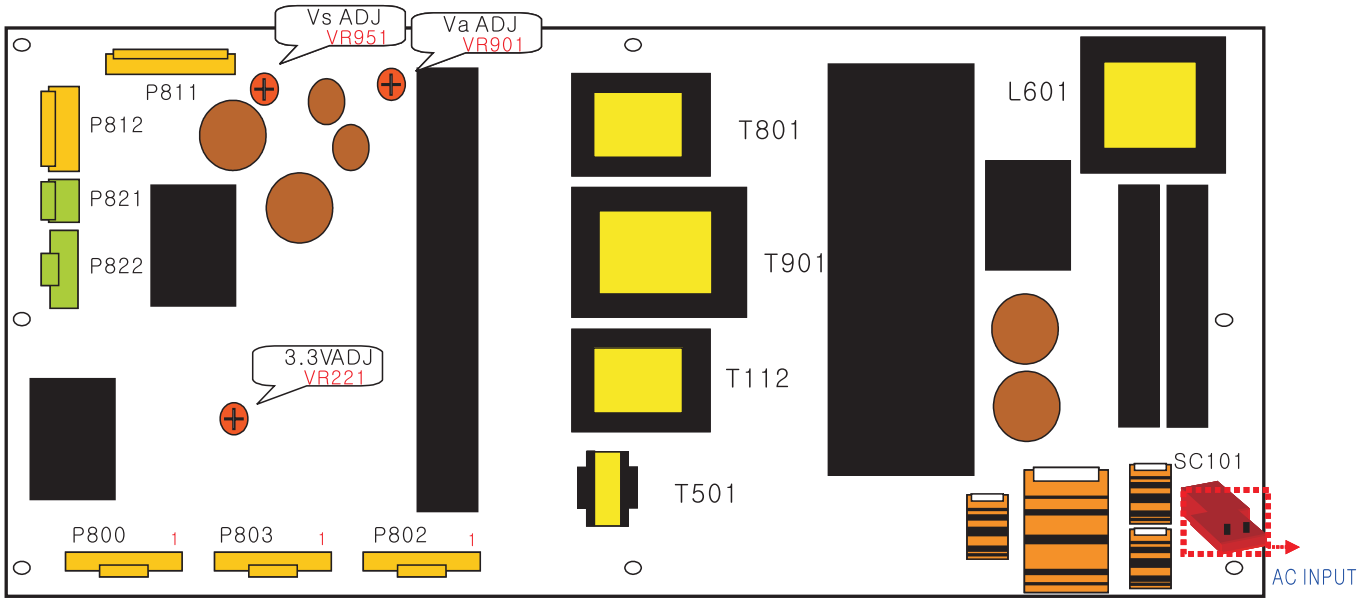
# TROUBLE SHOOTING GUIDE

## 1. Power Board

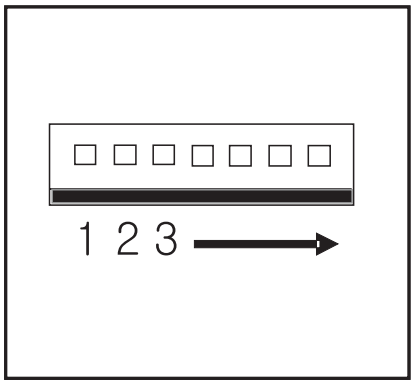
### 1-1. The whole flowchart which it follows in voltage output state



## 1-2. 42” Power Board Structure




| NO | AC INLET | ANALOG & DIGITAL BOARD | | | PDP MODULE | | READY [1] | |
|---|---|---|---|---|---|---|---|---|
| | SC1 | P800 | P803 | P802 | P811 | P812 | P821 | P822 |
| 1 | AC | AC Det | 19V | 3.4V | Vs | 5V | 5V | GND |
| 2 | NC | RL-ON | 19V | 3.4V | Vs | GND | 5V | GND |
| 3 | AC | STB 5V | GND | GND | NC | Va | GND | GND |
| 4 | | GND | GND | GND | GND | GND | GND | GND |
| 5 | | Vs-ON | 6V | 6V | GND | GND | | 5V |
| 6 | | 5V Det | GND | 6V | Va | GND | | 5V |
| 7 | | 3.4V-ON | 3.4V | GND | GND | NC | | 5V |
| 8 | | STB 5V | GND | GND | 5V | Vs | | 5V |
| 9 | | GND | 12V | 12V | | Vs | | |
| 10 | | NC | GND | 12V | | | | |
| 11 | | 6V | | GND | | | | |
| 12 | | GND | | GND | | | | |
| 13 | | 3.4V-ON | | | | | | |




T801: Vs Trans

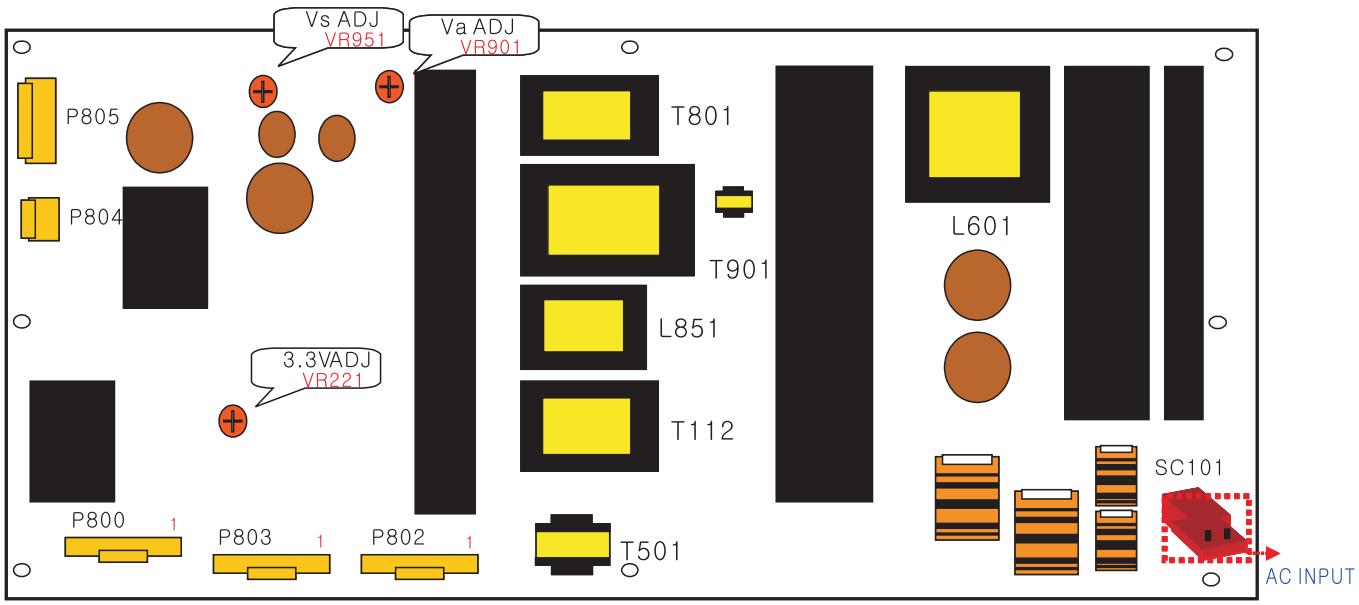
T901: Va Trans

T112: Low Voltage Trans

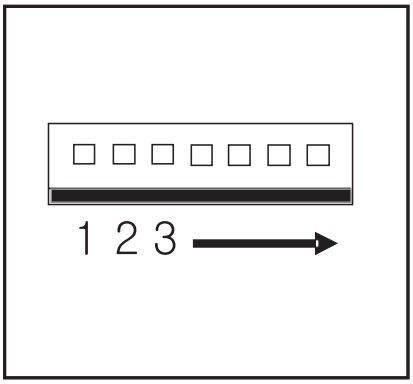
T501: ST-BY Trans

T601: PFC Inductor

## 1-3. 50” Power Board Structure




| NO | AC INLET | ANALOG & DIGITAL BOARD | | | PDP MODULE | | READY [1] | |
|---|---|---|---|---|---|---|---|---|
| | SC1 | P800 | P803 | P802 | P811 | P812 | P821 | P822 |
| 1 | AC | AC Det | 19V | 3.4V | Vs | 5V | 5V | GND |
| 2 | NC | RL-ON | 19V | 3.4V | Vs | GND | 5V | GND |
| 3 | AC | STB 5V | GND | GND | NC | Va | GND | GND |
| 4 | | GND | GND | GND | GND | GND | GND | GND |
| 5 | | Vs-ON | 6V | 6V | GND | GND | | 5V |
| 6 | | 5V Det | GND | 6V | Va | GND | | 5V |
| 7 | | 3.4V-ON | 3.4V | GND | GND | NC | | 5V |
| 8 | | STB 5V | GND | GND | 5V | Vs | | 5V |
| 9 | | GND | 12V | 12V | | Vs | | |
| 10 | | NC | GND | 12V | | | | |
| 11 | | 6V | | GND | | | | |
| 12 | | GND | | GND | | | | |
| 13 | | 3.4V-ON | | | | | | |




T801: Vs Trans

T901: Va Trans

T902: Vs aux. Trans

L851: Vs Inductor

T112: Low Voltage Trans

T501: ST-BY Trans

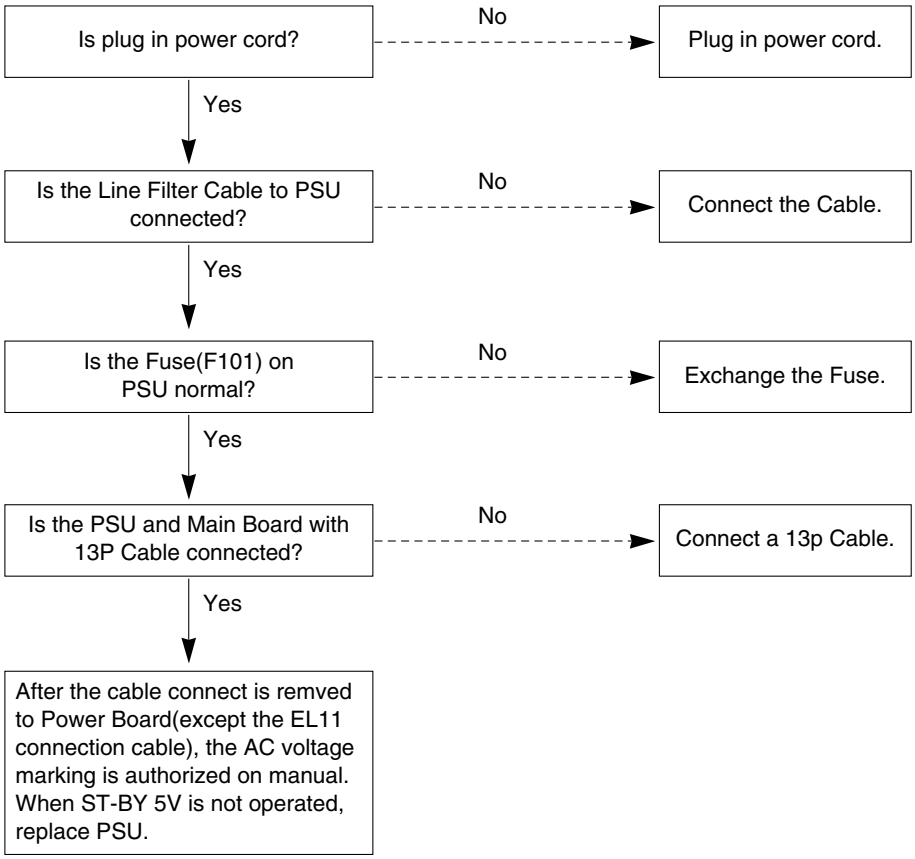
T601: PFC Inductor

# 2. No Power

### (1) Symptom

1) Front LED is NO light.
2) The Set doesn't discharge little.

### (2) Check following

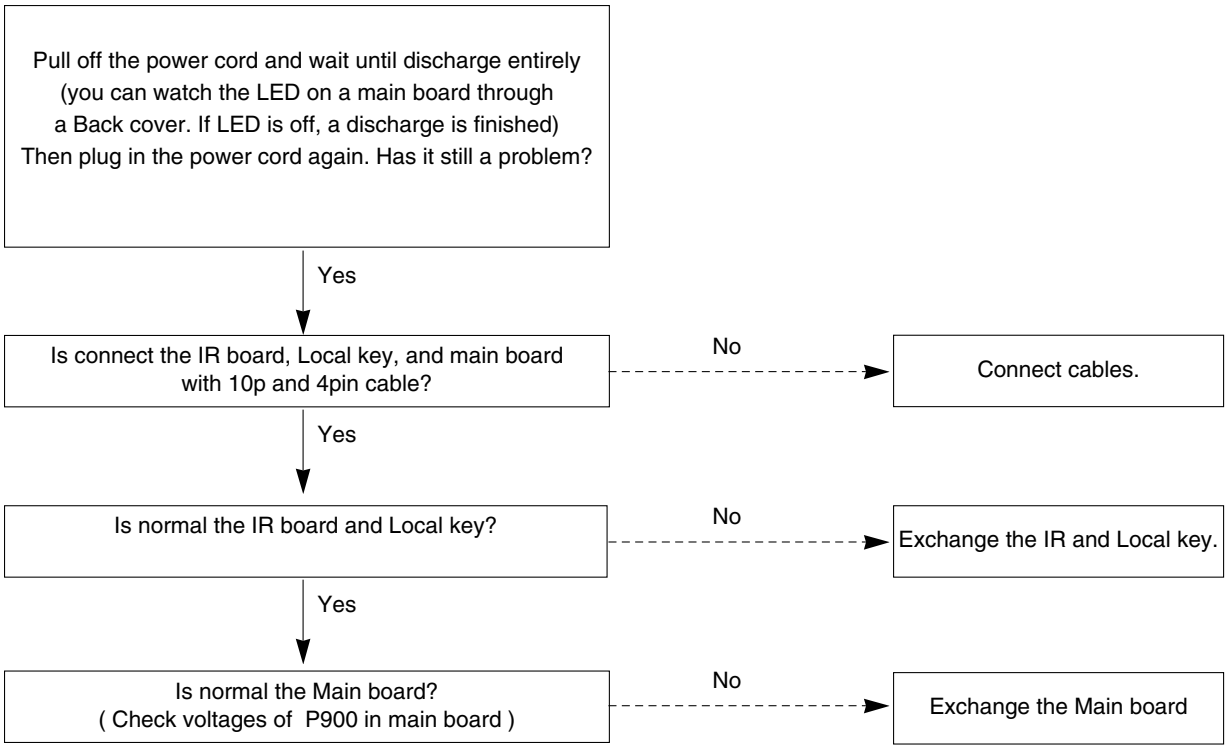


# 3. No Power

### (1) Symptom

1) Front LED is NO light.
2) The Set doesn't discharge little.

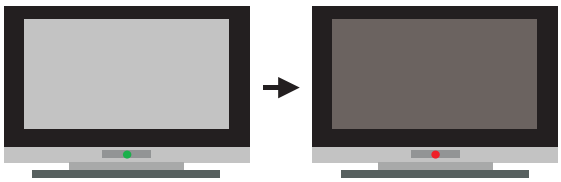
### (2) Check following



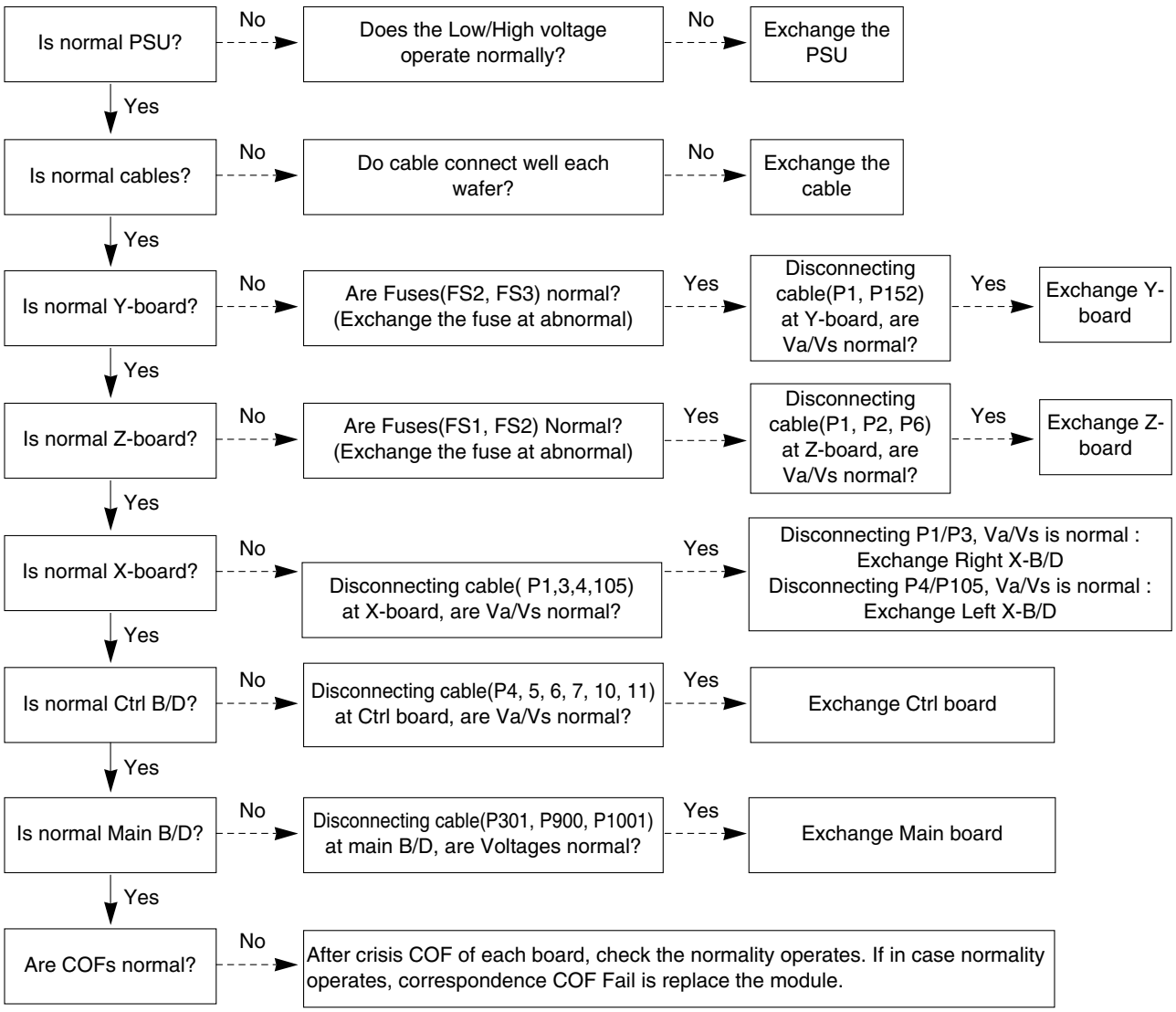
# 4. Protect Mode

### (1) Symptom

1) After once shining, it does not discharge minutely from module.
2) The Rely falls down.(The sound is audible “click”)
3) The front LED turn Green to Red.



### (2) Check following

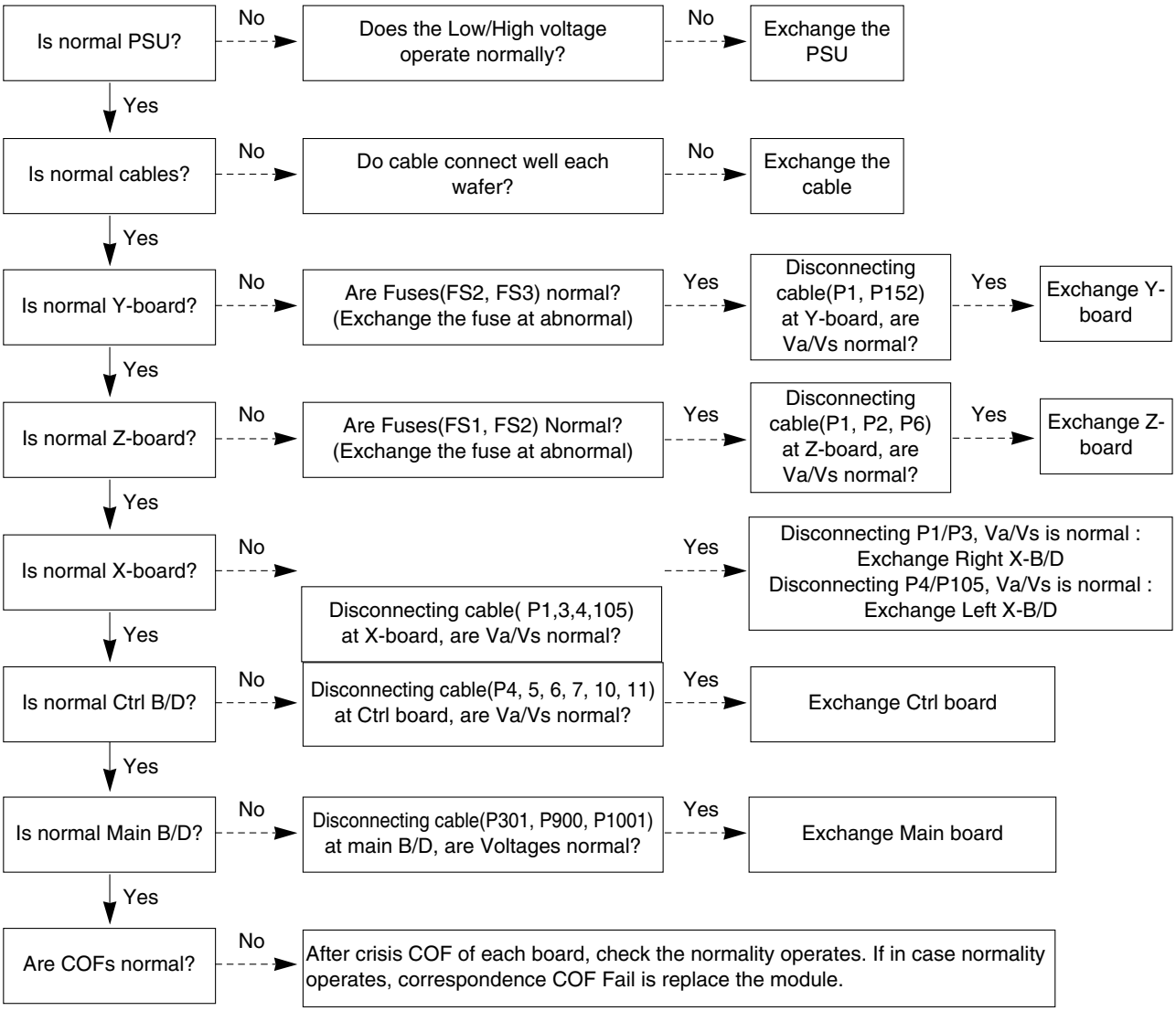


# 5. No Raster

### (1) Symptom

1) Front LED is Green.
2) The Set doesn't discharge a little.

### (2) Check following



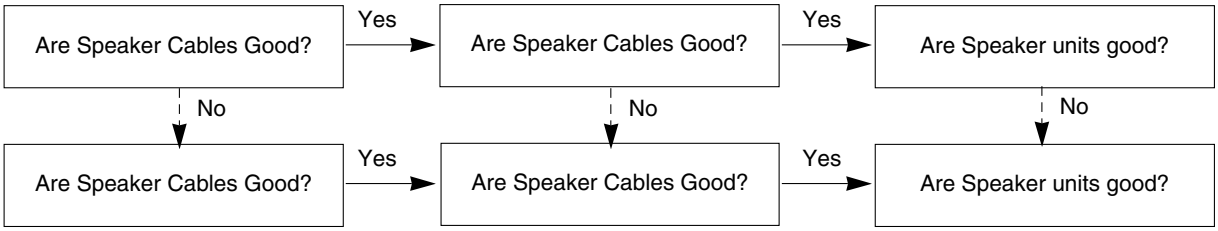
# 6. No Sound

### (1) Symptom

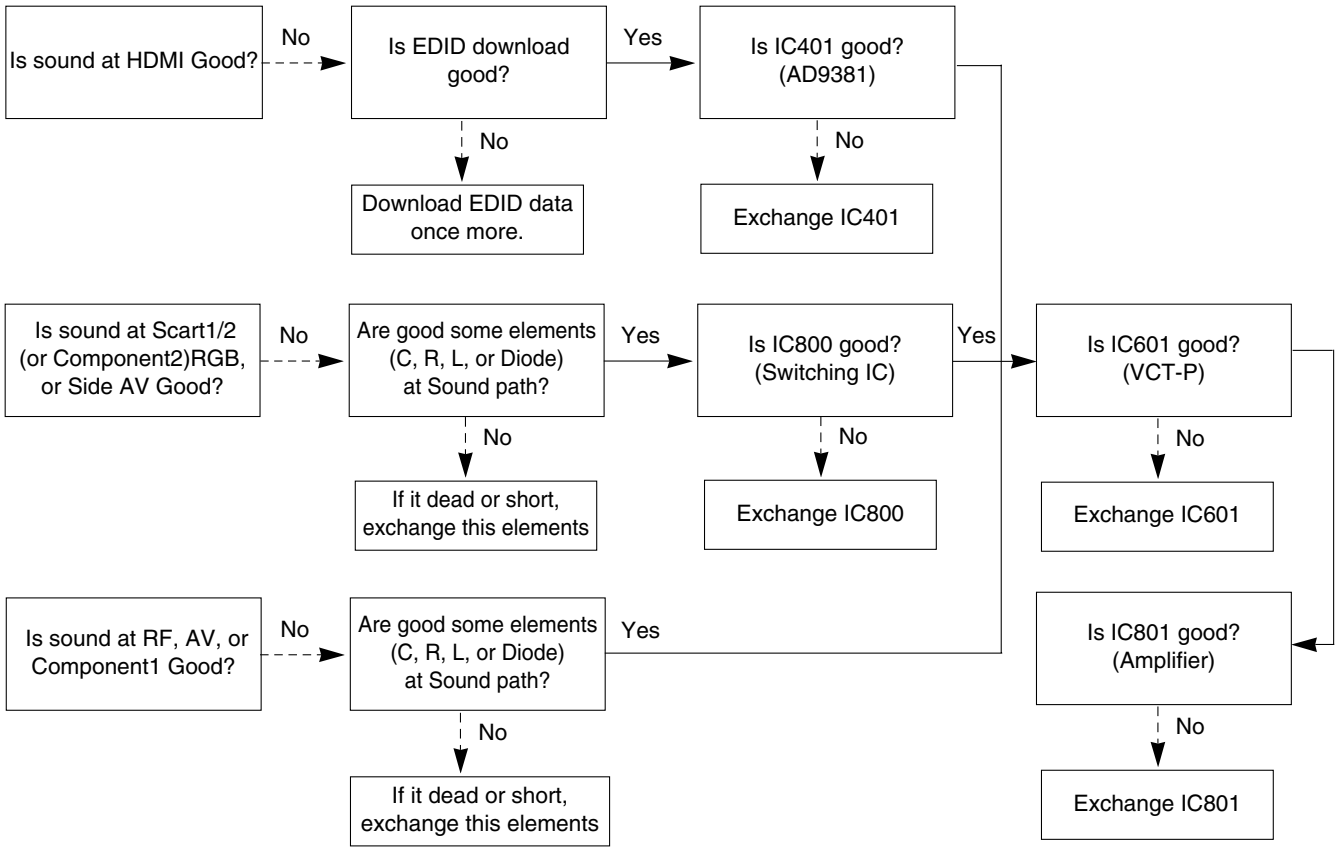
1) Front LED is Green.
2) The Set display a screen, but a sound doesn't output.

### (2) Check following

1) Speaker part




2) Main board part



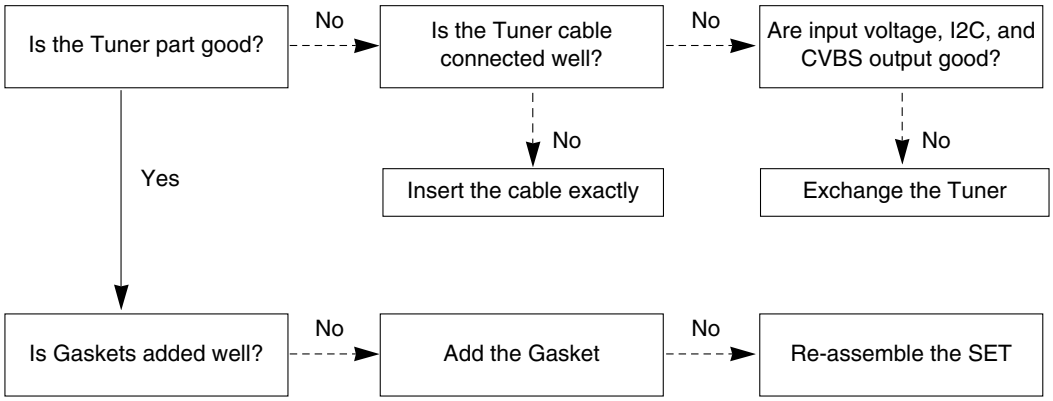
# 7. Display the screen abnormally

## (1) Symptom

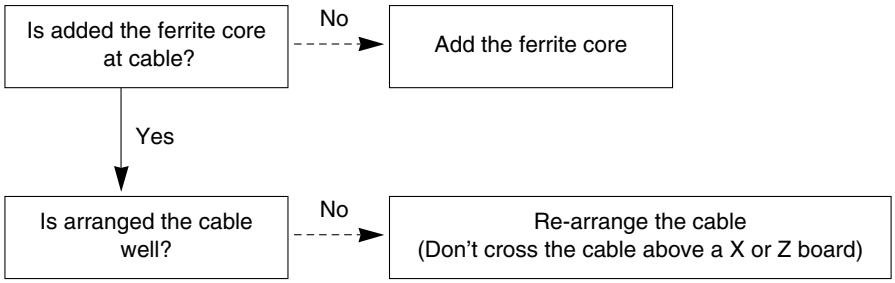
1) Display the screen abnormally at specific mode.

## (2) Check following

1) Noise appears at RF mode.




2) Noise appears at Side AV.



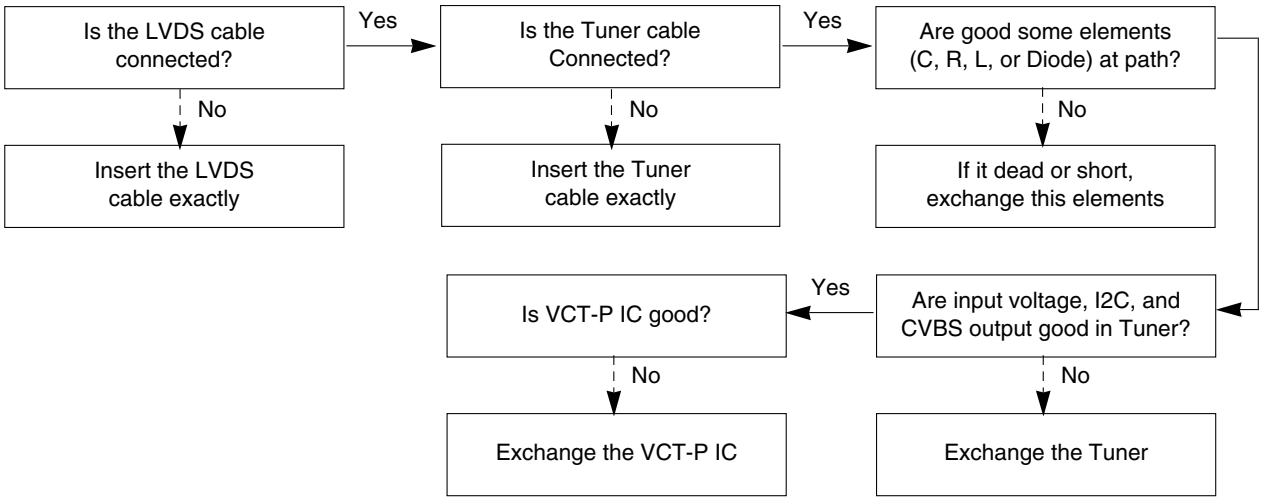
# 8. No Picture

### (1) Symptom

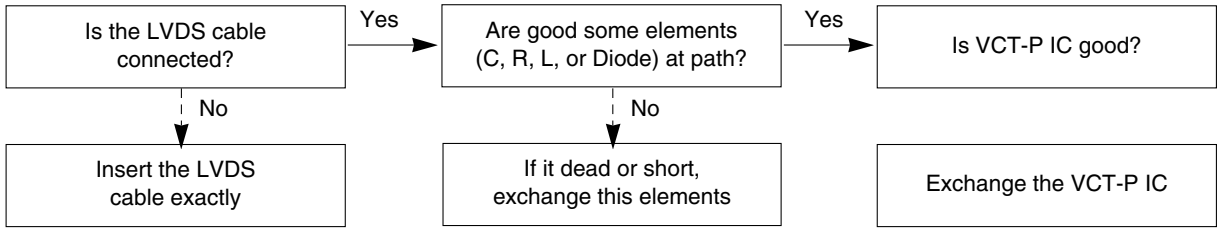
1) Some mode doesn't display.
2) Front LED is green.
3) The set still discharge a little.

### (2) Check following

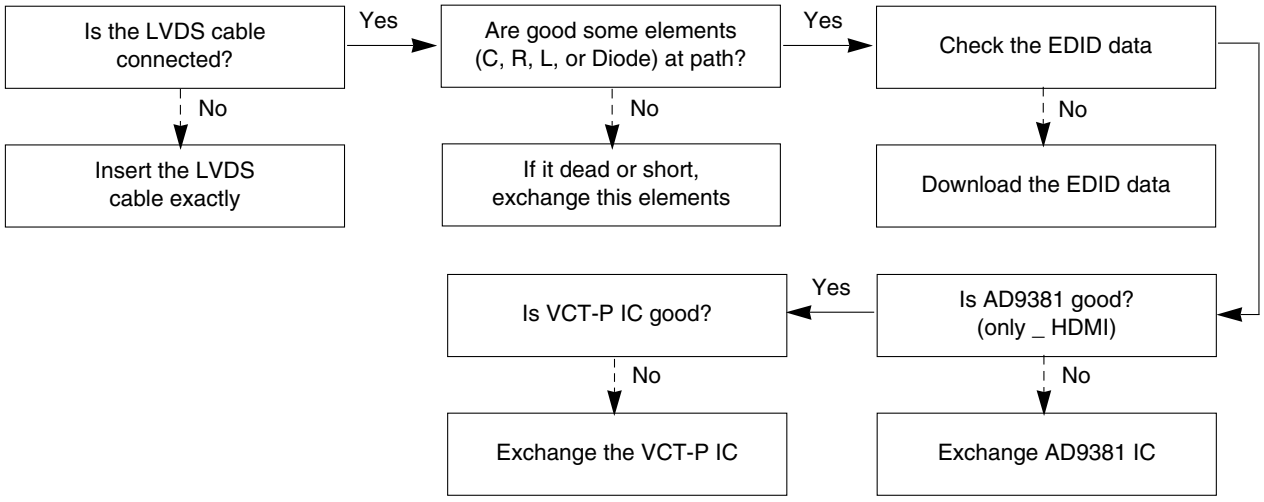
1) RF-mode doesn't display




2) AV/Component-mode doesn't display.

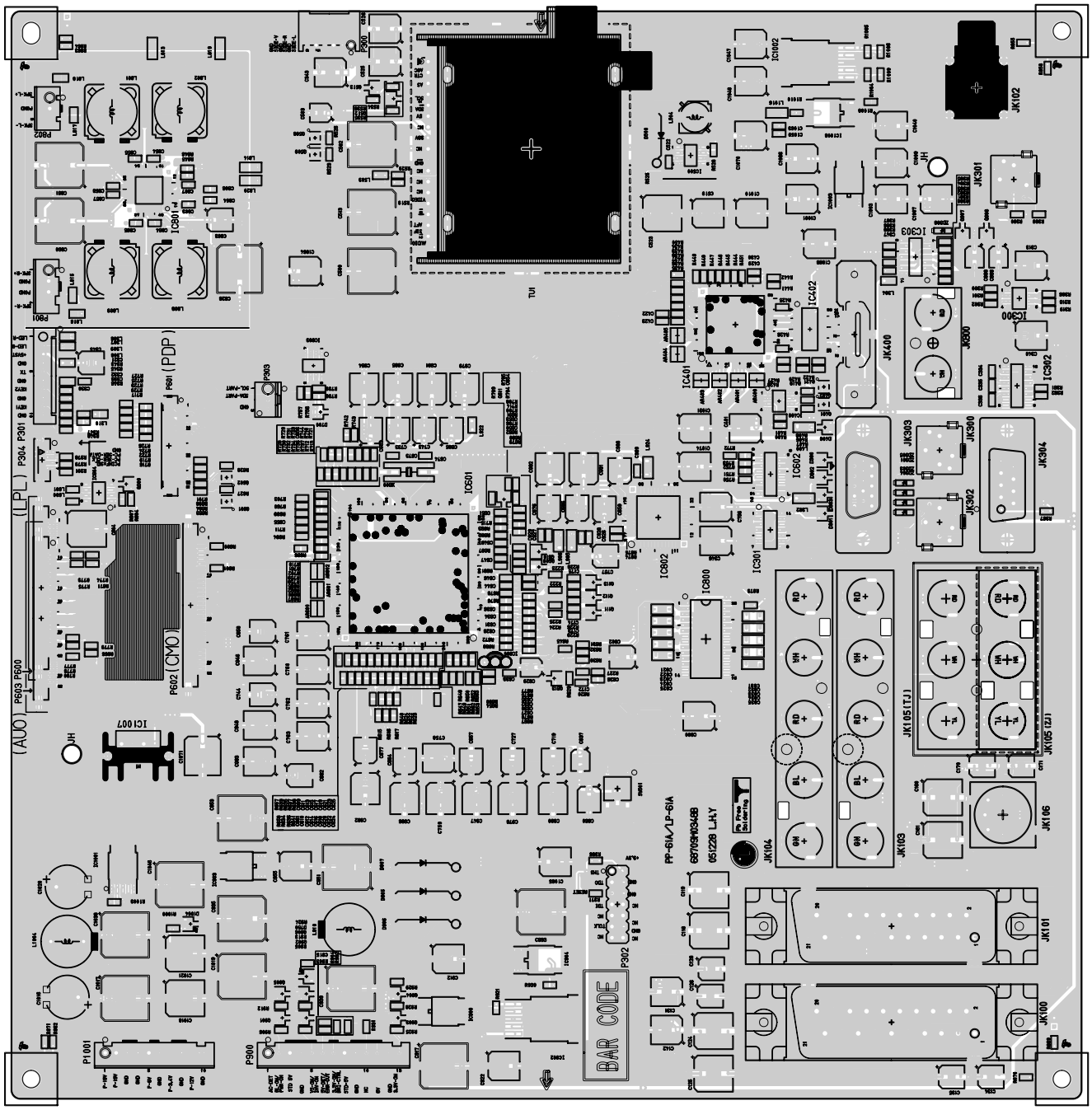



3) RGB/HDMI-mode doesn't display.

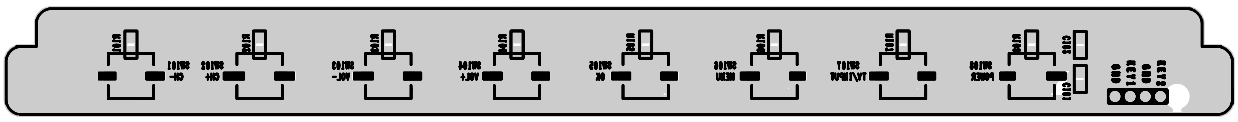


# PRINTED CIRCUIT BOARD

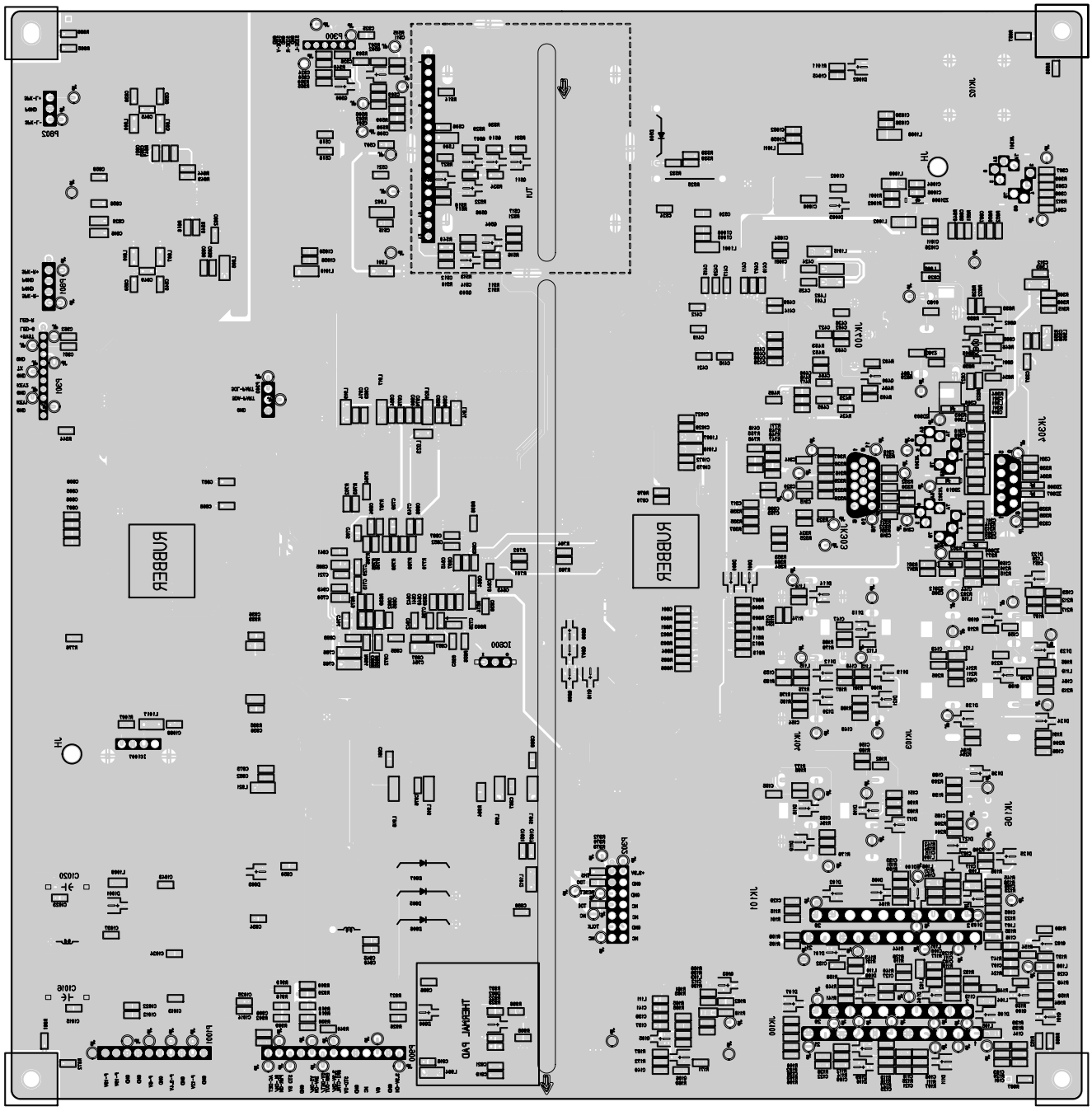
## MAIN(TOP)



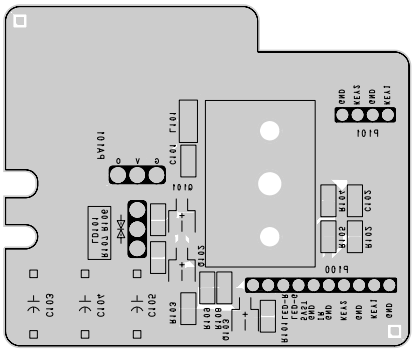

## CONTROL



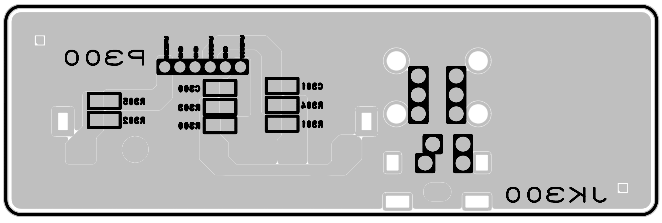
## MAIN(BOTTOM)



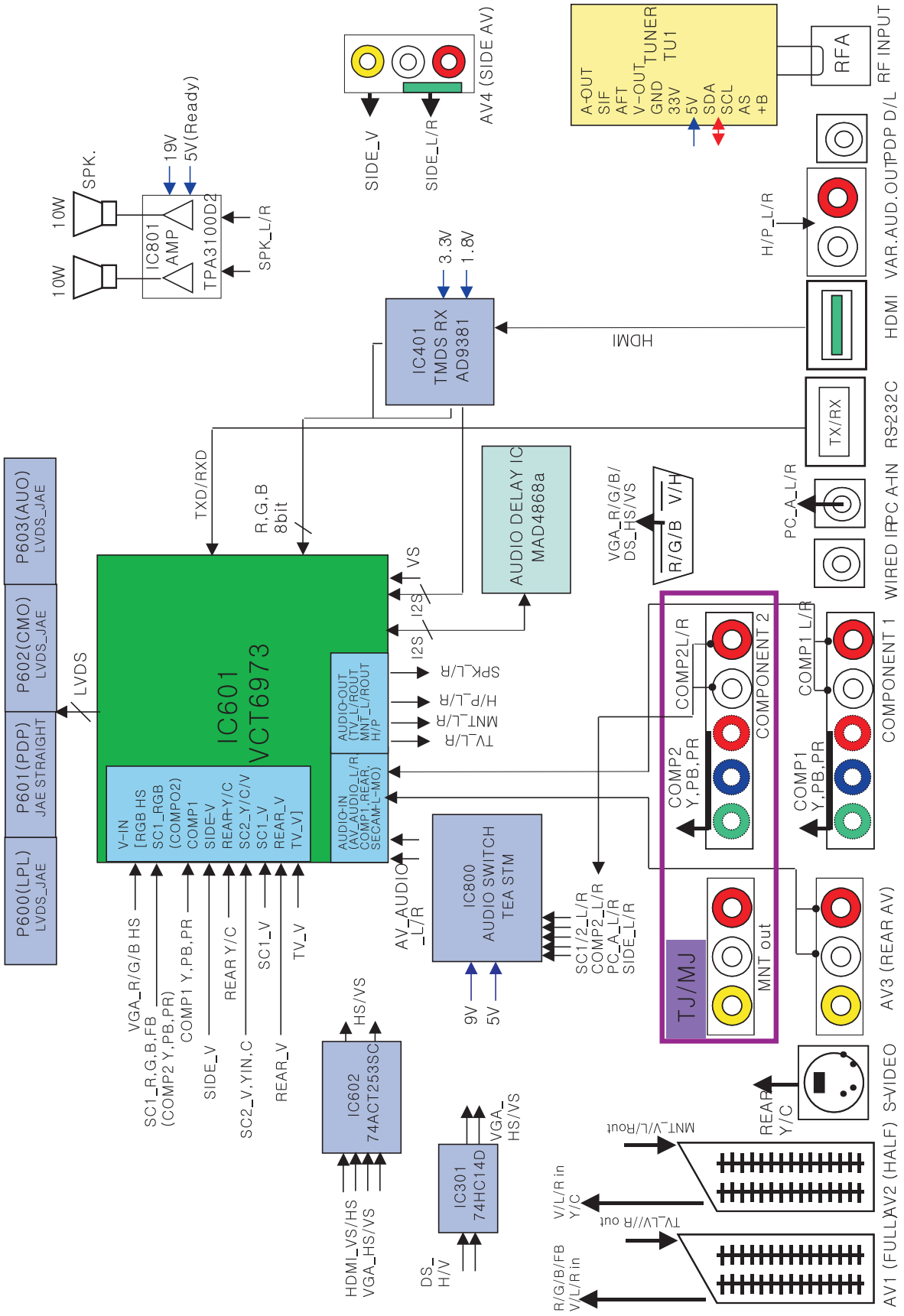
## PRE-AMP



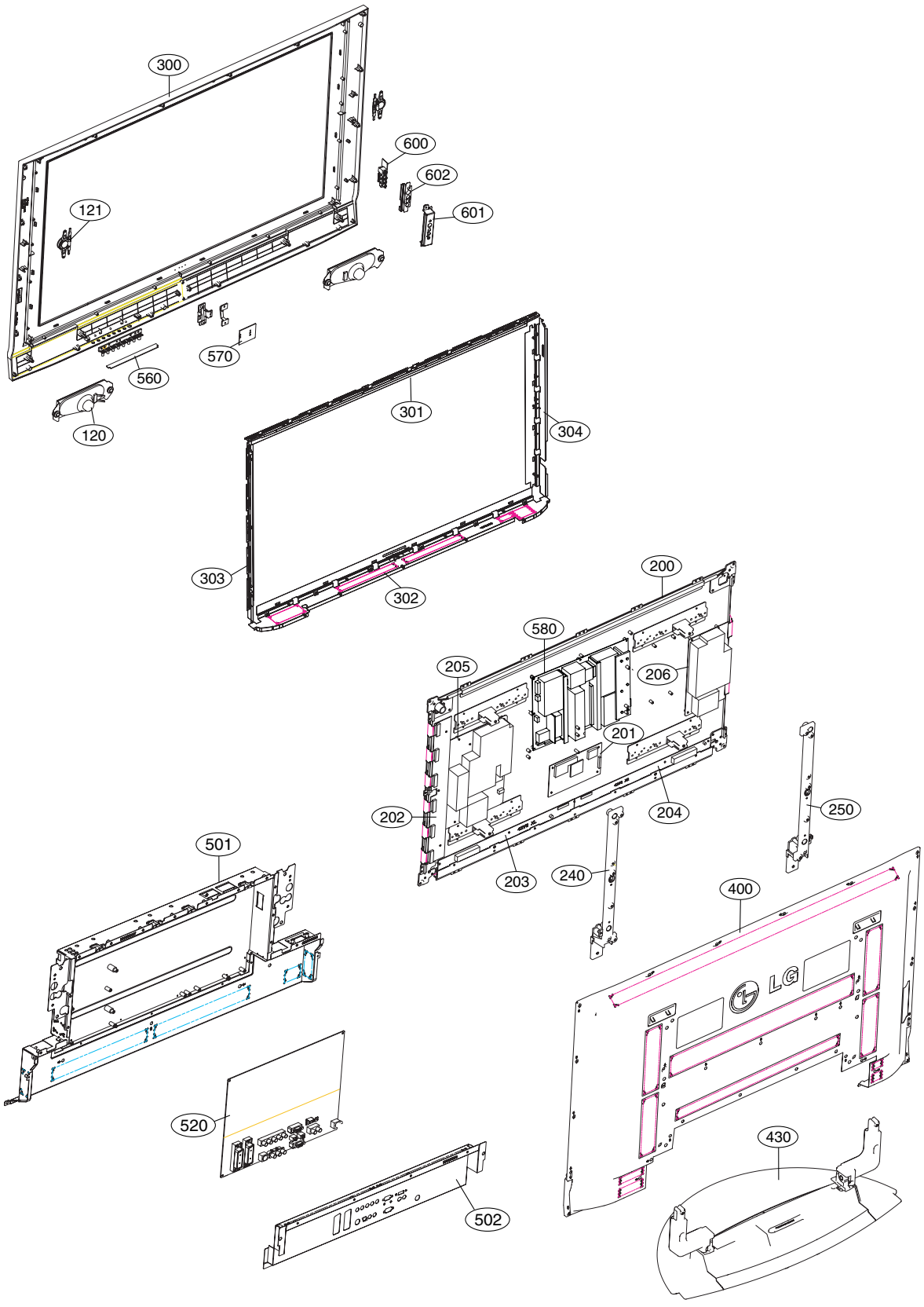
## SIDE A/V



# BLOCK DIAGRAM



# EXPLODED VIEW



# EXPLODED VIEW PARTS LIST

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

| No. | Part No. | Descriptions |
|---|---|---|
| 120 | 6400WMCX03A | SPEAKER, WOOFER G1560102 MACOM WOOFER 8OHM 15/20W 82DB OTHERS 100HZ 193*57MM |
| 121 | 6400DTTX02B | SPEAKER, TWEETER EN15D-6659 TOPTONE TWEETER(DOME) 8OHM 15/20W 78DB OTHERS PC1 MODEL |
| ⚠ 200 | 6348Q-E113H | PDP, 42" 852*480 PDP42V80201.AKLGG 42PC1RV-ZJ CIS SET |
| | 6348Q-E127T | PDP, 42 852*480 PDP42V80201.ADLGB |
| ⚠ 201 | 6871QCH074A | PWB(PCB) ASSEMBLY, DISPLAY CTRL ASSY HAND INSERT 42 42V8 4005 ASIC LVDS |
| ⚠ 202 | 6871QDH118A | PWB(PCB) ASSEMBLY, DISPLAY YDRV ASSY HAND INSERT 42 42V8 80PIN SCAN IC APLICATION |
| ⚠ 203 | 6871QLH057A | PWB(PCB) ASSEMBLY, DISPLAY XRLT ASSY HAND INSERT 42 42V8 XL 4004 ASIC LVDS |
| ⚠ 204 | 6871QRH067A | PWB(PCB) ASSEMBLY, DISPLAY XRRT ASSY HAND INSERT 42 42V8 XR 4004 ASIC LVDS |
| ⚠ 205 | 6871QYH048A | PWB(PCB) ASSEMBLY, DISPLAY YSUS ASSY HAND INSERT 42 42V8 Y SUS B/D |
| ⚠ 206 | 6871QZH053A | PWB(PCB) ASSEMBLY, DISPLAY ZSUS ASSY HAND INSERT 42 42V8 |
| 240 | 4980900109A | SUPPORTER, ASSY AL 42PC1R-TA, VERTICAL RIGHT 42PC1RV-ZJ CIS SET |
| | 4980900109C | SUPPORTER, ASSY AL 42PC1R-TA, VERTICAL RIGHT, C/SKD |
| 250 | 4980900109B | SUPPORTER, ASSY AL 42PC1R-TA, VERTICAL LEFT 42PC1RV-ZJ CIS SET |
| | 4980900109D | SUPPORTER, ASSY AL 42PC1R-TA, VERTICAL LEFT, C/SKD |
| ⚠ 300 | 30919E0006A | CABINET ASSEMBLY, 42PC1RV-ZJ BRAND 30909E0001A 42PC1RV-ZJ CIS SET |
| | 30919E0006C | CABINET ASSEMBLY, 42PC1RV-TJ(CHINA) BRAND 30909E0001A-> 42PC1RVA-ZJ |
| | 30919E0006H | CABINET ASSEMBLY, 42PC1RV-ZJ BRAND 30909E0001A C/SKD -> 42PC1RV-ZJ |
| 301 | 4980900113A | SUPPORTER, ASSY AL FILTER TOP 42PC1R-TA 42PC1RV-ZJ CIS SET |
| | 4980900113B | SUPPORTER, ASSY AL FILTER TOP 42PC1R-TA C/SKD |
| 302 | 4980900114A | SUPPORTER, ASSY AL FILTER BOTTOM 42PC1R-TA 42PC1RV-ZJ CIS SET |
| | 4980900114B | SUPPORTER, ASSY AL FILTER BOTTOM 42PC1R-TA C/SKD |
| 303 | 4980900115A | SUPPORTER, ASSY AL FILTER RIGHT 42PC1R-TA 42PC1RV-ZJ CIS SET |
| | 4980900115B | SUPPORTER, ASSY AL FILTER RIGHT 42PC1R-TA, C/SKD |
| 304 | 4980900116A | SUPPORTER, ASSY AL FILTER LEFT 42PC1-TA 42PC1RV-ZJ CIS SET |
| | 4980900116B | SUPPORTER, ASSY AL FILTER LEFT 42PC1-TA, C/SKD |
| ⚠ 400 | 3809900103A | BACK COVER ASSEMBLY, 42PC1R ANALOG 42PC1RV-ZJ CIS SET |
| | 3809900103P | BACK COVER ASSEMBLY, 42PC1 LGEMA ASSY ONLY (ANALOG) |
| ⚠ 430 | 3501900014A | BOARD ASSEMBLY, D/T SPK STAND AP-42DC11 MF056A FOLDING STAND 42PC1RV-ZJ CIS SET |
| | 3501900014C | BOARD ASSEMBLY, D/T SPK STAND AP-42DC11 MF056A FOLDING STAND LGERS C/SKD |
| 501 | 3301900095D | PLATE ASSEMBLY, AV 3301900098A 3300900017D(PRESS) 42PC VCTP |
| | 3301900095Q | PLATE ASSEMBLY, AV 3301900098A 3300900017H(PRESS) H3-M C/SKD |
| 502 | 3301900094B | PLATE ASSEMBLY, ASSY 3300900010D VCTP PDP PC SERIES COMMON 42PC1RV-ZJ CIS SET |
| | 3301900094G | PLATE ASSEMBLY, ASSY 3300900010G H3 PDP PC SERIES EU, C/SKD |
| 520 | 68719MMV88A | PWB(PCB) ASSEMBLY, MAIN MAIN1 M.I PP61A 42PC1RV ZJ |
| | 68719MMW87A | PWB(PCB) ASSEMBLY, MAIN MAIN1 M.I PP61A 42PC1RV ZJ CKD MANUAL INSERT FOR CKD (KETLLMP) |
| 560 | 68719SMJ63A | PWB(PCB) ASSEMBLY, SUB SUB M.I PP61A 42PC3RV Z LOCAL CLTR |
| | 68719SMM24A | PWB(PCB) ASSEMBLY,SUB SUB M.I PP61A 42PC1RV Z CKD LOCAL (KETLLMP) |
| 570 | 68719SMJ64A | PWB(PCB) ASSEMBLY, SUB SUB M.I PP61A 42PC3RV Z PREAMP+LED |
| | 68719SMM25A | PWB(PCB) ASSEMBLY,SUB SUB M.I PP61A 42PC1RV Z CKD PREAMP (KETLLMP) |
| ⚠ 580 | 6709900019A | POWER SUPPLY ASSEMBLY 42INCH UNIFICATION PSU PDP LGIT PA61B 400W 42PB2D |
| 600 | 68719SMJ74A | PWB(PCB) ASSEMBLY,SUB SUB M.I PP61A 42PC3RV ZJ SIDEAV |
| | 68719SMM26A | PWB(PCB) ASSEMBLY,SUB, SUB M.I PP61A 42PC1RV Z CKD SIDE AV (KETLLMP) |
| 601 | 4811900021C | BRACKET ASSEMBLY, SIDE AV 42PC1R-ZH PP62A CORTEZ-A, EU 42PC1RV-ZJ CIS SET |
| | 4811900021G | BRACKET ASSEMBLY, SIDE AV 42PC1R-ZH PP62A SKD |
| 602 | 48149V0003A | SHIELD, SIDE AV 42PC1R |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| **IC** | | |
| IC1001 | 0IPMGKE030A | KIA78R05F KEC 5PIN DPAK R/TP 1A,5V LDO |
| IC1002 | 0IPMG00027A | SC156515M-1.8TR SEMTECH 5P/TO-263-5 |
| IC1003 | 0IMCRFA010A | KA7809R, FAIRCHILD 2P D-PAK, R/TP |
| IC300 | 0ICS240213A | CAT24W(F)C02J-TE13 8P SOP TP 2K |
| IC301 | 0IPH741400E | 74HC14D 14SOP TP SHITTER TRIGGER |
| IC302 | 0IPRP00009A | ICL3232CBNZ INTERSIL 16P/SOP |
| IC303 | 0ISTL00031A | MC74HC4066ADR2G,LF ON SEMI 14P |
| IC400 | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P SOIC |
| IC401 | 0IPRP00701A | AD9381KSTZ ANALOG DEVICE 100P,LQFP |
| IC500 | 0IPMGON013B | MC34063ADR2G ON SEMI SO-8P R/TP DC-DC |
| IC600 | 0IFA752700A | KA75270Z 3 TP RE-SET IC MC-007 |
| IC601 | 0IPRP00689A | VCT6973G-FA-B2-000 MICRONAS 208P |
| IC602 | 0IFA742530B | 74ACT253SC FAIRCHILD 16P SOIC R/TP |
| IC603 | 0IMMRAL025A | AT24C32AN-10SI-2.7 ATMEL 8PIN SOP |
| IC800 | 0IPRP00665A | TEA6420D STM 28PIN SO28 REEL TAPING |
| IC801 | 0IPRP00700A | TPA3100D2PHPR TEXAS INSTRUMENT 48P |
| IC802 | 0IPRP00743A | MAD4868A MICRONAS 44P,PMQFP TRAY |
| IC900 | 0IMCRRH001A | BA033FP-E2 ROHM 3P-SOP,TO252-3 |
| IC902 | 0IPMG00027A | SC156515M-1.8TR SEMTECH 5P/TO-263-5 |
| IC903 | 0IMCRRH001A | BA033FP-E2 ROHM 3P-SOP,TO252-3 |
| S1 | 692791152AA | SOFT WARE, 2.00V 8620 PDP PP61A 42PC3RV-ZJ |
| **TRANSISTOR** | | |
| Q100 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q101 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q101 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q102 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q102 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q103 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q105 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q106 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q108 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q109 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q110 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q111 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q112 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q113 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q300 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q400 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q401 | 0TR830009BA | BSS83 TP PHILIPS N-CHANNEL S/W TR |
| Q402 | 0TR830009BA | BSS83 TP PHILIPS N-CHANNEL S/W TR |
| Q502 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q503 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q504 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q505 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q506 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q507 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q508 | 0TR830009BA | BSS83 TP PHILIPS N-CHANNEL S/W TR |
| Q509 | 0TR830009BA | BSS83 TP PHILIPS N-CHANNEL S/W TR |
| Q510 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q511 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| Q512 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q513 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q600 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q605 | 0TR102009AM | KRA102S KEC REEL TAPING SOT23 -50V |
| Q606 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q607 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q608 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q611 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q613 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q614 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q615 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q617 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q801 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q802 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q901 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q902 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q903 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q904 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q905 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q906 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q907 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q908 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| **DIODE** | | |
| D1001 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D1002 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D1003 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D108 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D109 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D110 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D111 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D127 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D300 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D301 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D302 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D303 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D400 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D500 | 0DS113379BA | 1SS133 T-72 TP ROHM KOREA DO34 90V |
| D700 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D800 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D801 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D900 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D902 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D903 | 0DS226009AA | KDS226 TP KEC - 80V 4NSEC 0.5UA |
| D905 | 0DD200009AF | RU2M V(1) TP SANKEN R-TMD 400V 1.1A |
| D906 | 0DD200009AF | RU2M V(1) TP SANKEN R-TMD 400V 1.1A |
| D907 | 0DD200009AF | RU2M V(1) TP SANKEN R-TMD 400V 1.1A |
| ZD1000 | 0DZKE00048A | KDZ8.2V USC KEC R/TP 200MW |
| ZD301 | 0DR050008AA | SD05.TC R/TP SEMTECH SOD323 5V 5A 15A |
| ZD303 | 0DR050008AA | SD05.TC R/TP SEMTECH SOD323 5V 5A 15A |
| ZD304 | 0DR050008AA | SD05.TC R/TP SEMTECH SOD323 5V 5A 15A |
| ZD305 | 0DR050008AA | SD05.TC R/TP SEMTECH SOD323 5V 5A 15A |
| ZD308 | 0DR050008AA | SD05.TC R/TP SEMTECH SOD323 5V 5A 15A |

| For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows; | CC, CX, CK, CN : Ceramic<br>CQ : Polyestor<br>CE : Electrolytic | RD : Carbon Film<br>RS : Metal Oxide Film<br>RN : Metal Film<br>RF : Fusible |
|---|---|---|

## CAPACITOR

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C1000 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1001 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1002 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1003 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1004 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1005 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1006 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1007 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1008 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1009 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1010 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1011 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1012 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1013 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1014 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1015 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1016 | 0CE477EJ618 | 470UF KMG 35V 20% FL TP 5 |
| C1017 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1018 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C1019 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1020 | 0CE477EJ618 | 470UF KMG 35V 20% FL TP 5 |
| C1021 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C1022 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1023 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1024 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1025 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1026 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1027 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1029 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C103 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1031 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1036 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1037 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1038 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1039 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C104 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1040 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1043 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1045 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1046 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1047 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1048 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C105 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1050 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1051 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1052 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1054 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1056 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1057 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1058 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1059 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1061 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1063 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1064 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1065 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1066 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1068 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1069 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1070 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1071 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C1072 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1073 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1074 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C111 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C112 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C113 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C114 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C115 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C116 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C117 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C118 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C119 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C120 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C124 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C125 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C126 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C128 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C131 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C134 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C135 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C137 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C138 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C141 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C142 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C159 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C162 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C163 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C164 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C172 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C173 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C174 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C175 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C309 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C310 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C311 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C312 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C313 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C316 | 0CC120CK41A | 12PF 1608 50V 5% R/TP NP0 |
| C317 | 0CC120CK41A | 12PF 1608 50V 5% R/TP NP0 |
| C332 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C333 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C334 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |

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|---|---|---|

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C335 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C336 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C337 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C338 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C339 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C340 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C343 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C345 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C346 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C347 | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R |
| C350 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C351 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C352 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C400 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C401 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C406 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C407 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C408 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C409 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C410 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C411 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C412 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C413 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C414 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C415 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C416 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C417 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C419 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C420 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C421 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C424 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C425 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C426 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C429 | 0CK822CK46A | 8.2NF 1608 50V 5% X7R R/TP |
| C430 | 0CK823CF56A | 82NF 1608 16V 10% X7R R/TP |
| C500 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C502 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C503 | 0CE475SK6DC | 4.7UF MVG 50V 20% SMD R/TP |
| C506 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C507 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C508 | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0 |
| C509 | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0 |
| C511 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C512 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C513 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C514 | 0CK273CK56A | 27000PF 1608 50V 10% X7R R/TP |
| C515 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C516 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C517 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C517 | 0CK273CK56A | 27000PF 1608 50V 10% X7R R/TP |
| C518 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C519 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C520 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C521 | 0CC271CK41A | 270PF 1608 50V 5% R/TP NP0 |
| C522 | 0CC271CK41A | 270PF 1608 50V 5% R/TP NP0 |
| C523 | 0CE476WK6DC | 47UF MVK 50V 20% R/TP(SMD) SMD |
| C524 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C525 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C605 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C606 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C607 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C608 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C609 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C610 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C611 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C612 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C613 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C614 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C615 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C616 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C617 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C618 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C619 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C620 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C621 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C622 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C623 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C624 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C625 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C626 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C627 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C628 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C629 | 0CE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD) SMD |
| C630 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C631 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C632 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C633 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C634 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C635 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C636 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C637 | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20% SMD TAPPING |
| C638 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C643 | 0CK332CK56A | 3.3NF 1608 50V 10% R/TP X7R |
| C645 | 0CK332CK56A | 3.3NF 1608 50V 10% R/TP X7R |
| C647 | 0CK332CK56A | 3.3NF 1608 50V 10% R/TP X7R |
| C648 | 0CK332CK56A | 3.3NF 1608 50V 10% R/TP X7R |
| C649 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C650 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C651 | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0 |
| C652 | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0 |
| C653 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C654 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C655 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C657 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |

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|---|---|---|

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C658 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C659 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C660 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C661 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C662 | 0CK225DK94A | 2.2UF 2012 50V 80%,-20% F(Y5V) R/TP |
| C663 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C664 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C665 | 0CK225DK94A | 2.2UF 2012 50V 80%,-20% F(Y5V) R/TP |
| C666 | 0CK225DD66A | 2.2UF 2012 10V 20% X7R R/TP |
| C673 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C674 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C676 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C677 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C682 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C683 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C684 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C685 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C686 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C687 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C688 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C693 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C694 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C695 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C696 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C697 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C704 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C705 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C713 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C719 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C721 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C726 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C727 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C729 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C733 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C735 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C739 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C743 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C744 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C749 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C750 | 0CK225DK94A | 2.2UF 2012 50V 80%,-20% F(Y5V) R/TP |
| C753 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C756 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C757 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C758 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C759 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C760 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C761 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C762 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C763 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C764 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C764 | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP |
| C765 | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C766 | 0CK106EF56A | 10UF 3216 16V 10% X7R R/TP |
| C800 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C801 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C802 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C803 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C804 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C806 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C807 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C816 | 0CK225DK94A | 2.2UF 2012 50V 80%,-20% F(Y5V) R/TP |
| C820 | 0CK225DK94A | 2.2UF 2012 50V 80%,-20% F(Y5V) R/TP |
| C821 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C822 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C823 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C824 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C825 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C827 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C828 | 0CE107WK6DC | 100UF MVK 50V 20% R/TP(SMD) SMD |
| C829 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C830 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C831 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C832 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C833 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C834 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C835 | 0CK475EF67A | 4.7UF 3216 16V 20% X5R R/TP |
| C836 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C838 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C839 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C840 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C842 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C845 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C848 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C849 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C850 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C851 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C853 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C854 | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7R |
| C855 | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7R |
| C856 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C857 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C858 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C859 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C860 | 0CE227WJ6DC | 220UF MVK/RC 35V 20% SMD TAPPING |
| C861 | 0CE227WJ6DC | 220UF MVK/RC 35V 20% SMD TAPPING |
| C862 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C863 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C864 | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7R |
| C865 | 0CK224CF56A | 0.22UF 1608 16V 10% R/TP X7R |
| C866 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C867 | 0CK682CK51A | 6800PF 1608 50V 10% R/TP B(Y5P) |
| C868 | 0CE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD) SMD |
| C869 | 0CE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD) SMD |
| C906 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |

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|---|---|---|

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C908 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C912 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C915 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C916 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C917 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C919 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C921 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C922 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C926 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C927 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C928 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C929 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C930 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C931 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C932 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C933 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C934 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C935 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C936 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C937 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C938 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C939 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C941 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C942 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C943 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C945 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C946 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C946 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C947 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C947 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C948 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C948 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C949 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C950 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C951 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C953 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C955 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C957 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C958 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C959 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C960 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C961 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C962 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C963 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C964 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C965 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C967 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C968 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C969 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C970 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C972 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C973 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C974 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C975 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C976 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C978 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C979 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C980 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C981 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C982 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C983 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C984 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C985 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C986 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C988 | 0CE106WH6DC | 10UF MVK 25V 20% R/TP(SMD) SMD |
| C989 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| **COIL** | | |
| L1004 | 6140VB0004B | 26UH 1UEWPHY 22.5TURN YL-9N 0.4 |
| L801 | 6140VR0008A | SLF12575T-330M4R7 33UH SMD COIL |
| L802 | 6140VR0008A | SLF12575T-330M4R7 33UH SMD COIL |
| L808 | 6140VR0008A | SLF12575T-330M4R7 33UH SMD COIL |
| L809 | 6140VR0008A | SLF12575T-330M4R7 33UH SMD COIL |
| L910 | 6140VB0004B | 26UH 1UEWPHY 22.5TURN YL-9N 0.4 |
| **CONNECTOR** | | |
| C1 | 6631900012C | 10P 2.5MM 200MM H-H UL1007AWG24 |
| C2 | 6631900027E | 13P 2.5MM 300MM H-H UL1007AWG24 |
| C3 | 6631900048C | 4P 2.0MM 250MM H-H UL1061AWG26 |
| C4 | 6631900050C | 10P 2.0MM 1200MM H-H UL1185AWG26 |
| C5 | 6631900097G | 3P 2.5MM 950/700MM H-T UL1007AWG24 |
| C6 | 6631900098G | 4P 2.5MM 1050/700MM H-T UL1007AWG24 |
| C7 | 6631900107A | 4P 1.25MM 400MM H-H UL1061AWG28 |
| C8 | 6631900108B | 6P 2.0MM 700MM H-H UL1185AWG26 |
| C9 | 6631T39004D | 9P-9P H-H 220MM UL1007AWG18 TWI |
| C10 | 6631V39013N | 8P 3.96MM 900MM H-H UL1617AWG22 |
| JK303 | 6630G70016A | A03-7071-094 SPG 15P 2.29MM RGB |
| JK304 | 6630G70017A | A02-0915-101 SPG 9P 2.54MM RS232 |
| **RESISTOR** | | |
| R525 | 0RD0331H609 | 3.3 OHM 1/2 W 5.00% TA52 |
| **LED** | | |
| D1004 | 0DL233309AC | SAM2333 TP KWANG GREEN/RED |
| D750 | 0DL233309AC | SAM2333 TP KWANG GREEN/RED |
| LD101 | 0DLAU0410AA | AUK SAW5670 BULK AMBER/WHITE LAMP TYPE |
| **SWITCH** | | |
| SW101 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW102 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW103 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW104 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW105 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW106 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| SW107 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW108 | 140-313B | TACT, 2LEAD 160G(TA) LG C&D 5V 0.001A |
| SW501 | 6600VR1004A | TACT, SKHMPW 5P CHIP TACT J-ALPS .V .A |
| **FILTER & CRYSTAL** | | |
| L100 | 6200J00005R | HB-1M1608-501JT CERATECH R/TP CHIP |
| L1000 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1001 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1002 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1007 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1008 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L101 | 6200J00005R | HB-1M1608-501JT CERATECH R/TP CHIP |
| L1010 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1011 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1012 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1015 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1016 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1017 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L1018 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L110 | 6200J00005R | HB-1M1608-501JT CERATECH R/TP CHIP |
| L111 | 6200J00005R | HB-1M1608-501JT CERATECH R/TP CHIP |
| L112 | 6200J00005F | HB-1M1608-102JT CERATEC R/TP 1K OHM |
| L113 | 6200J00005F | HB-1M1608-102JT CERATEC R/TP 1K OHM |
| L114 | 6200J00005F | HB-1M1608-102JT CERATEC R/TP 1K OHM |
| L115 | 6200J00005F | HB-1M1608-102JT CERATEC R/TP 1K OHM |
| L300 | 6200JB8010L | MLB-201209-1000L-N2 MAG LAYERS R/TP |
| L301 | 6200JB8010L | MLB-201209-1000L-N2 MAG LAYERS R/TP |
| L302 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L303 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L304 | 6210TCE001E | HB-1M2012-800JT CERATEC 2012MM R/TP |
| L305 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L400 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L401 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L402 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L500 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L501 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L502 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L806 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L813 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L814 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L819 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L820 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L904 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L905 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L906 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L913 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L914 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L915 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L916 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L917 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L918 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L919 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| L920 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L921 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| L924 | 6200J000013 | MLB-321611-0500P-N2 MAG LAYERS R/TP |
| X600 | 6202VDT002P | CRYSTAL, HC-49/SM 20.25000MHZ +/-30PPM |
| **JACK** | | |
| JK100 | 6612J00043C | SCART, UPJ-R1-031 UGCOM S/T,SCART.. |
| JK101 | 6612J00043C | SCART, UPJ-R1-031 UGCOM S/T,SCART.. |
| JK102 | 6612J10025A | RCA, KCN-BT-0-0055 10MM PAL TUNER JACK |
| JK103 | 6612J10031A | RCA, PPJ209-02 PARK 5P RCA(GBRWR) |
| JK105 | 6612J10003W | RCA, PPJ148-13 PARK ELEC. S/T 3P YWR |
| JK106 | 6612F00024C | DIN, PSJ014-01 PARK ELEC. S-VHS JACK.. |
| JK300 | 6612F00099A | PHONE, PEJ024-01 PARK 7P 10MM WITH S/W.. |
| JK300 | 6612J10003X | RCA, PMJ6054-39 PARK ELEC. R/A 3P YWR.. |
| JK301 | 6612F00099A | PHONE, PEJ024-01 PARK 7P 10MM WITH S/W.. |
| JK302 | 6612F00099A | PHONE, PEJ024-01 PARK 7P 10MM WITH S/W.. |
| JK400 | 6612B00015B | DIN, DC1R019WDH JAE 0.5MM, |
| JK800 | 6612J10043A | RCA, PPJ200-07 PARK 2P S/T SH LF |
| **WAFER** | | |
| C11 | 366-036B | CONNECTOR (CIRC),WAFERSTAPLE . . . . |
| C12 | 366-036B | CONNECTOR (CIRC),WAFERSTAPLE . . . . |
| C13 | 366-036B | CONNECTOR (CIRC),WAFERSTAPLE . . . . |
| P1 | 6602T20009C | CONNECTOR (CIRC),WAFERSMAW200-04 |
| P100 | 6602T20009J | CONNECTOR (CIRC),WAFERSMAW200-10 |
| P1001 | 6602T25008J | WAFER, SMW250-10 |
| P101 | 6602T20009C | CONNECTOR (CIRC),WAFERSMAW200-04 |
| P300 | 6602T20009E | CONNECTOR (CIRC),WAFERSMAW200-06 |
| P300 | 6602T20009E | CONNECTOR (CIRC),WAFERSMAW200-06 |
| P301 | 6602T20008J | CONNECTOR (CIRC),WAFERSMW200-10 |
| P302 | 6630V25002F | CONNECTOR (CIRC),WAFERYFDW254 |
| P303 | 366-932B | CONNECTOR (CIRC),WAFERIL-G-03P |
| P304 | 6630VF00704 | CONNECTOR (CIRC),WAFER12505WS-04A00 |
| P601 | 6602T12007D | CONNECTOR (CIRC),WAFERGT121-31P-TD |
| P801 | 6602T25008C | CONNECTOR (CIRC),WAFERSMW250-04 |
| P802 | 6602T25008B | CONNECTOR (CIRC),WAFERSMW250-03 |
| P900 | 6602T25008M | WAFER, SMW250-13 |
| **MISCELLANEOUS** | | |
| CA1 | 6850J00005C | CABLE,DVILVDS UL20276 AWG30 600MM |
| CA2 | 68509A0004E | CABLE,COAXIAL RCA R/A UL 1365#26 VW-1 |
| PA101 | 6712000011B | REMOTE CONTROLLER RECEIVER |
| TU1 | 6700MF0017C | TUNER, TAFV-W303P LGIT MULTI FS |
| **ACCESSORIES** | | |
| A1 | 38289U0025B | MANUAL, USER LP61A BRAND 8LANS |
| | 38289U0323B | MANUAL, USER 8LANS WESTERN EUROPE |
| | 38289U0323R | MANUAL, USER LP61A RU/EN(2) 010G-TX |
| | 38289U0025Z | MANUAL, USER All EU RS-232C |
| A2 | 6710900010G | REMOTE CONTROLLER, PP62A |
| ⚠ A3 | 64109EP003A | POWER CORD, LP34A+LS60 LONGWELL |
| A4 | 4972V00178B | FIXER, WALL ASSY FOLDING STAND ONLY |

# MAIN

IC100

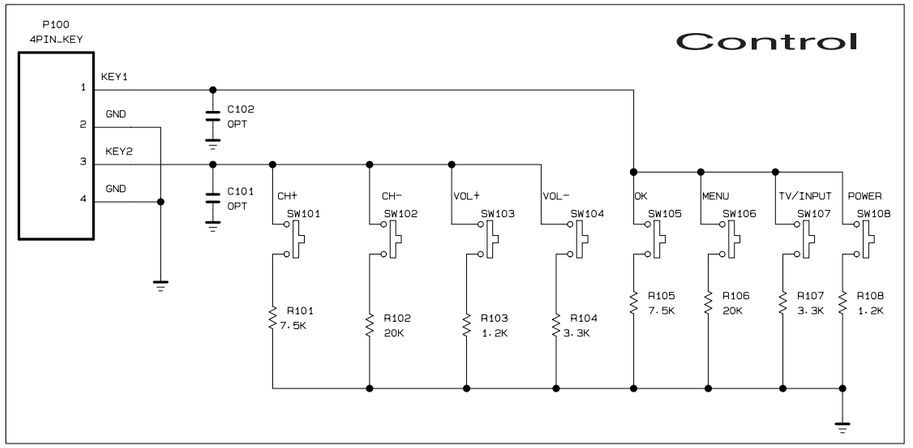
SI15100

SI15100 Decoupling Capacitors

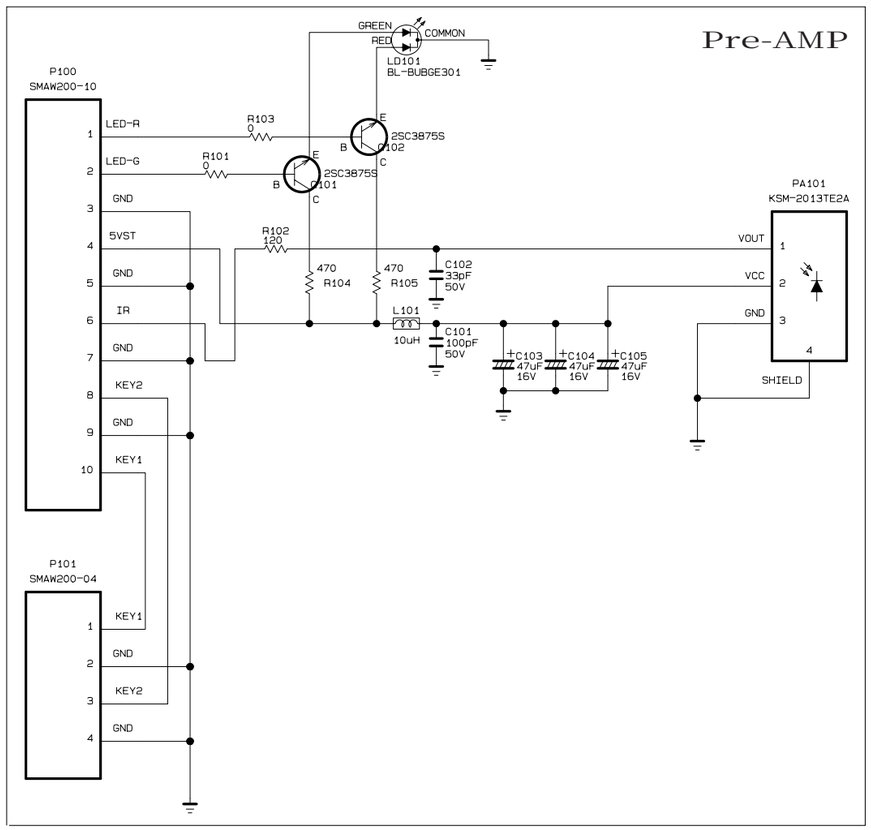
For LCD

For POP

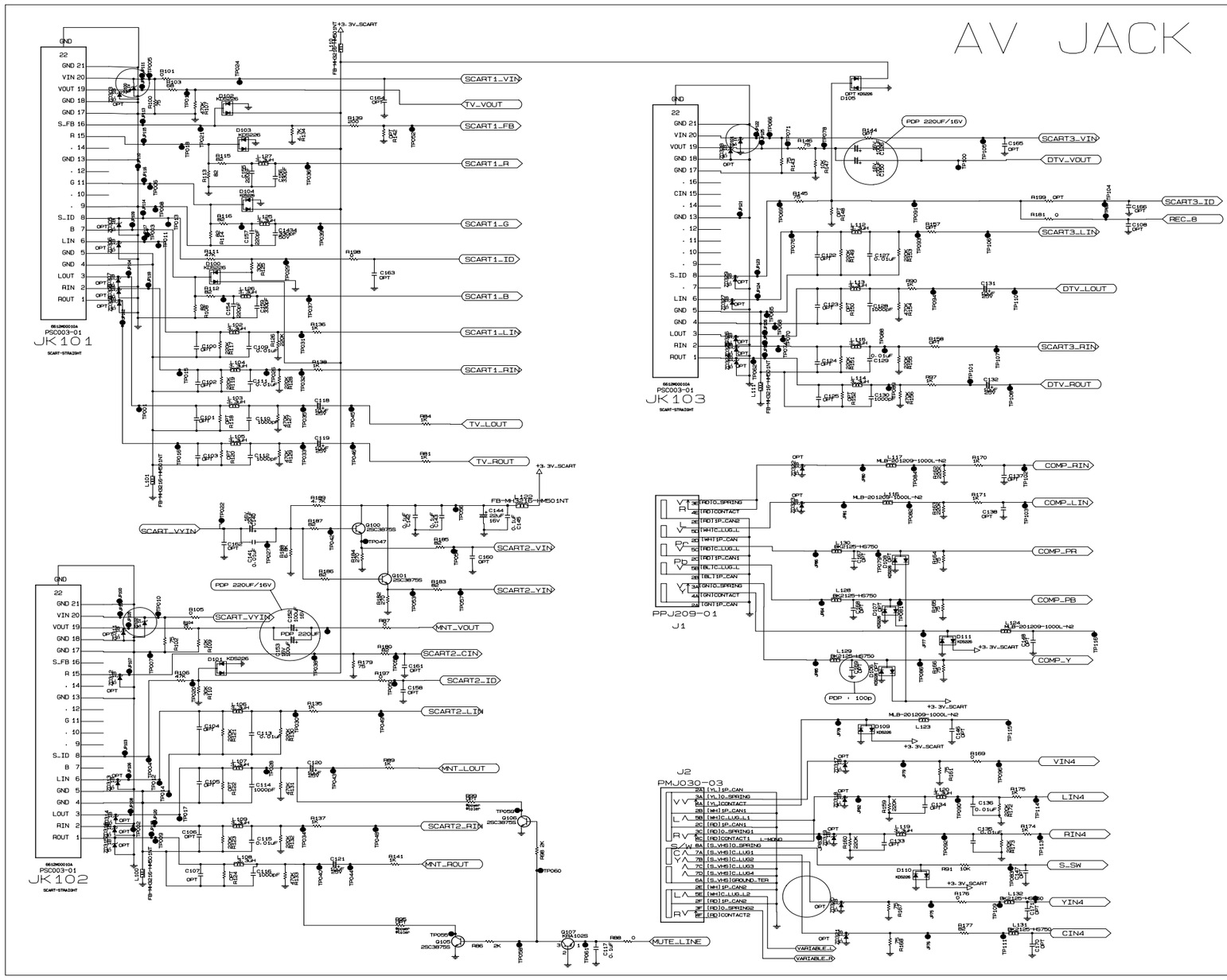
# Control

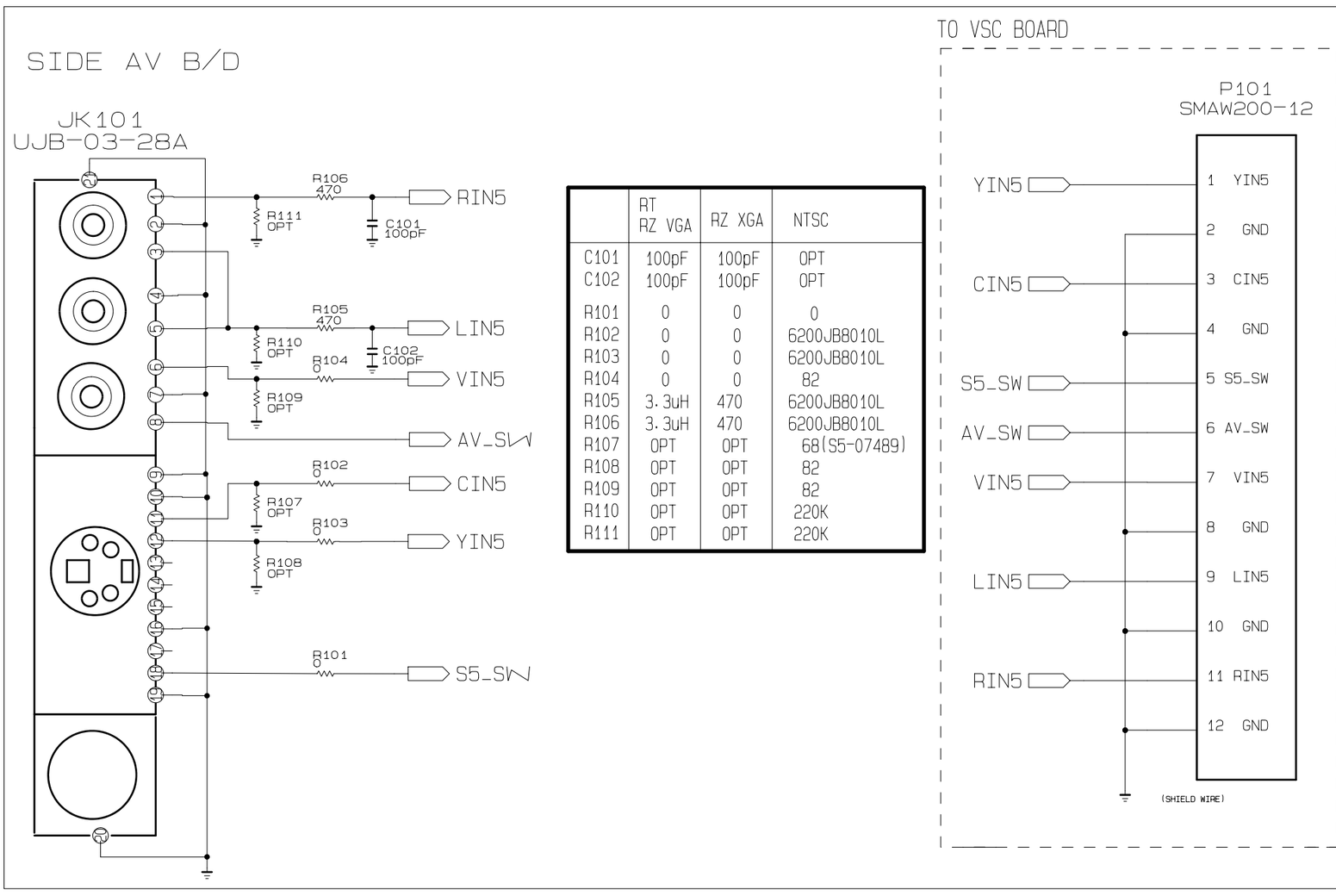



# Pre-AMP



# AV JACK




| | RT RZ VGA | RZ XGA | NTSC |
|---|---|---|---|
| C101 | 100pF | 100pF | OPT |
| C102 | 100pF | 100pF | OPT |
| R101 | 0 | 0 | 0 |
| R102 | 0 | 0 | 6200JB8010L |
| R103 | 0 | 0 | 6200JB8010L |
| R104 | 0 | 0 | 82 |
| R105 | 3.3uH | 470 | 6200JB8010L |
| R106 | 3.3uH | 470 | 6200JB8010L |
| R107 | OPT | OPT | 68(S5-07489) |
| R108 | OPT | OPT | 82 |
| R109 | OPT | OPT | 82 |
| R110 | OPT | OPT | 220K |
| R111 | OPT | OPT | 220K |

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