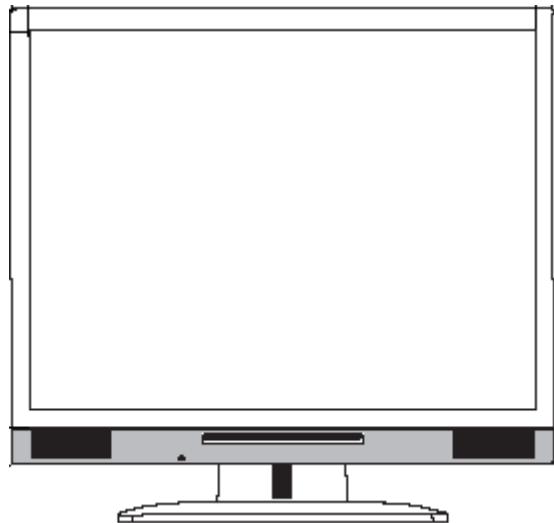


Service
Service
Service



Service Manual

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

Revision List

Proper service and repair is important to the safe, reliable operation of all IIYAMA Company Equipment. The service procedures recommended by IIYAMA and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. IIYAMA could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, IIYAMA has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by IIYAMA must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, IIYAMA Company will be referred to as IIYAMA.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from IIYAMA.

IIYAMA assumes no liability, express or implied, arising out of any unauthorized modification of design.

Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:

DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.

CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.

Take care during handling the LCD module with backlight unit

-Must mount the module using mounting holes arranged in four corners.

-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.

-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.

-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).

-Make certain that treatment person's body is grounded through wristband.

-Do not leave the module in high temperature and in areas of high humidity for a long time.

-Avoid contact with water as it may a short circuit within the module.

-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. Monitor Specifications

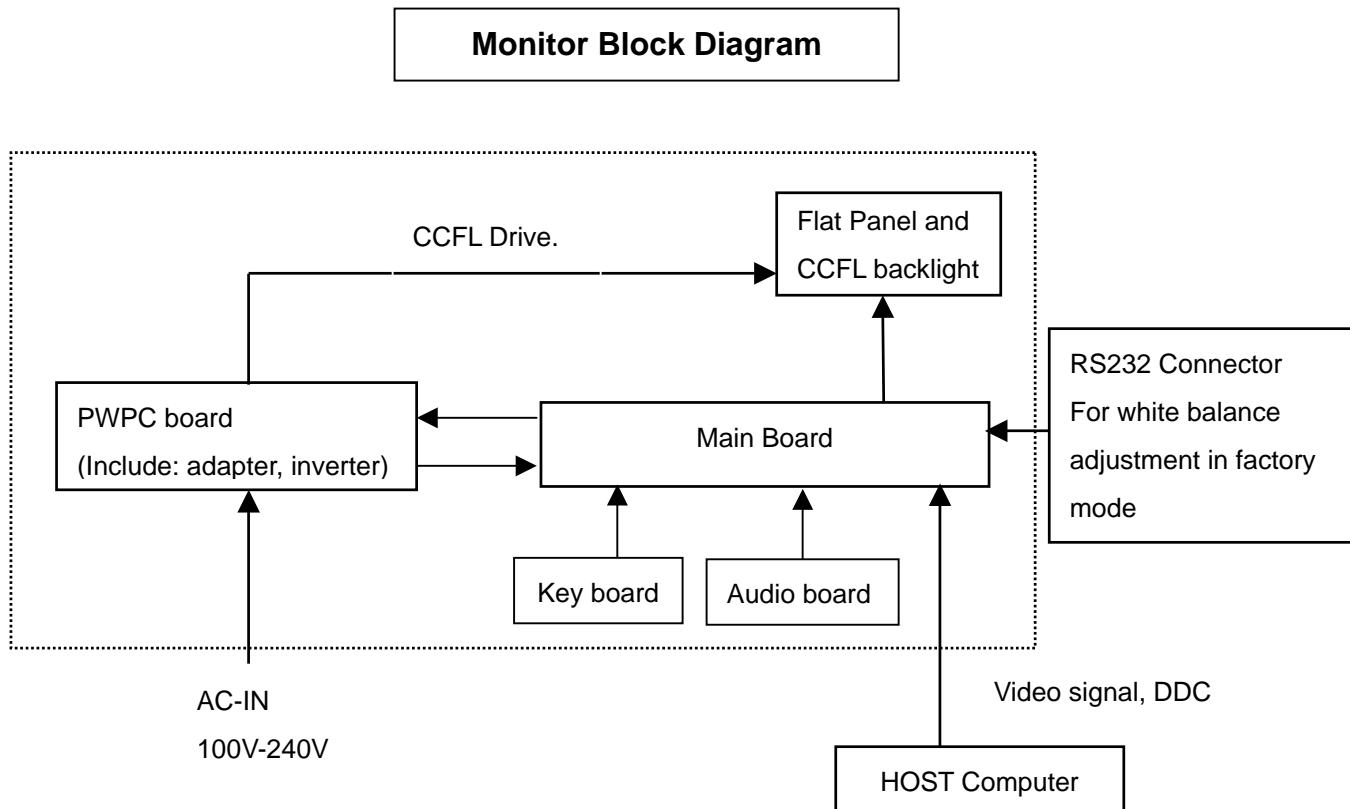
| | | |
|-----------------------|----------------|---|
| LCD Panel | Driving system | a-Si TFT Active Matrix |
| | Size | Diagonal: 51cm / 20.1" |
| | Pixel pitch | 0.255mm H × 0.255mm V |
| | Brightness | 300cd/m ² (Typical) |
| | Contrast ratio | 900 : 1 (Typical) |
| | Viewable angle | Right / Left / Up / Down: 89 degrees each (Typical) |
| | Response time | 16ms (Black, white, black), 8ms (Gray to Gray) |
| Display Colors | | 16,777,216 maximum |
| Sync Frequency | | Analog: Horizontal 24.0-80.0kHz, Vertical 55-85Hz Digital: Horizontal 31.0-80.0kHz, Vertical 55-85Hz |
| Dot Clock | | 162MHz maximum |
| Maximum Resolution | | 1600 × 1200, 1.9 MegaPixels |
| Input Connector | | D-Sub mini 15pin, DVI-D 24pin |
| Plug & Play | | VESA DDC2B™ |
| Input Sync Signal | | Separate sync: TTL, Positive or Negative Composite sync: TTL, Positive or Negative Sync on green: 0.3Vp-p, Negative |
| Input Video Signal | | Analog: 0.7Vp-p (Standard), 75Ω, Positive Digital: DVI (Digital Visual Interface Standard Rev.1.0) compliance |
| Input Audio Connector | | ø 3.5mm mini jack (Stereo) |
| Input Audio Signal | | 0.7Vrms maximum |
| Speakers | | 2.0W × 2 (Stereo speakers) |

| | |
|------------------------------|--|
| Headphone Connector | ø 3.5mm mini jack (Stereo) |
| Maximum Screen Size | 408mm W × 306mm H / 16.1" W × 12" H |
| Power Source | 100-240VAC, 50/60Hz, 1.5A |
| Power Consumption | 55W maximum, Power management mode: 2W maximum* |
| Dimensions / Net Weight | 446 × 423.5 × 215mm / 17.6 × 16.7 × 8.5" (W×H×D), 7.5kg / 16.5lbs |
| Tilt Angle | Up: 25 degrees, Down: 4 degrees |
| Environmental Considerations | Operating: Temperature 5 to 35°C / 41 to 95°F Humidity 10 to 80% (No condensation) Storage: Temperature -20 to 60°C / -4 to 140°F Humidity 5 to 85% (No condensation) |
| Approvals | TCO '03, CE, TÜV-GS / MPR III(prEN50279) / ISO 13406-2, FCC-B, UL / C-UL, VCCI-B |

2. LCD Monitor Description

The LCD MONITOR will contain a main board, a power board, key board and audio board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



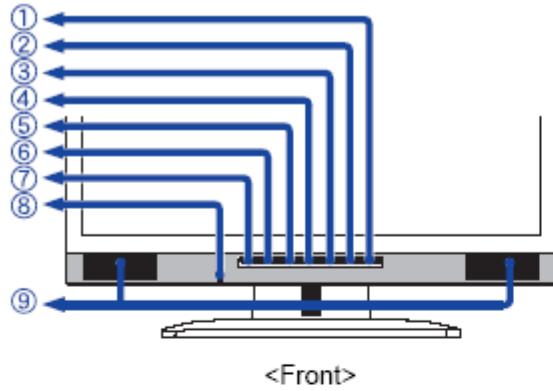
3. Operating Instructions

3.1 General Instructions

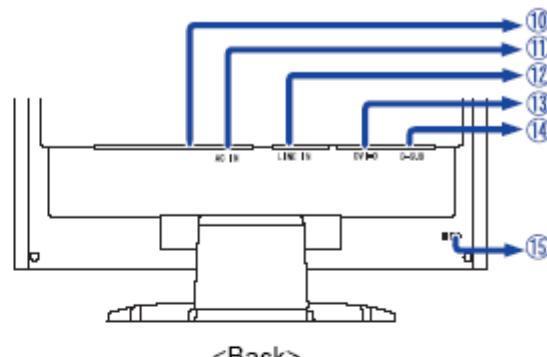
Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor, the power indicator will light up.

3.2 Control Button



<Front>



<Back>

- ① Power Switch / Power Indicator ()

NOTE Green: Normal operation (ProLite E511S)

Blue: Normal operation (ProLite E511S-B / ProLite E511S-S)

Orange: Power Management

The monitor enters into power management mode which reduces the power consumption to less than 2W when receiving no horizontal and/or vertical sync signal.

- ② Auto Button (AUTO)

- ③ Exit / Volume Button (EXIT / )

- ④ + / Brightness Button (+ / )

- ⑤ - / Contrast Button (- / )

- ⑥ Menu Button (MENU)

- ⑦ Input Button (INPUT)

- ⑧ Headphone Connector

- ⑨ Speakers

- ⑩ Main Power Switch

- ⑪ AC Connector (AC IN)

- ⑫ Audio Connector (LINE IN)

- ⑬ DVI-D 24pin Connector (DVI-D)

- ⑭ D-sub mini 15pin Connector (D-SUB)

- ⑮ Keyhole for Security Lock

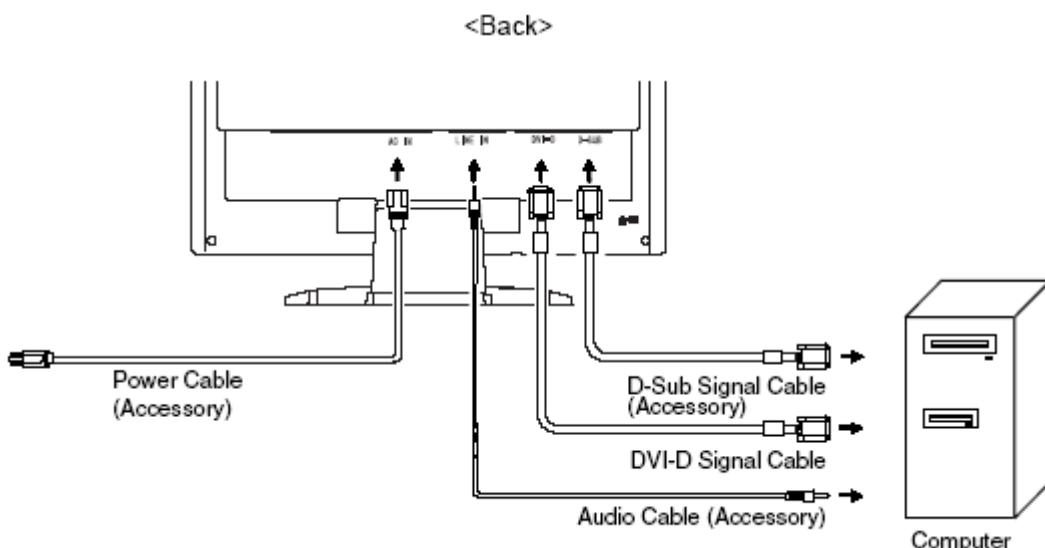
NOTE You can fasten a security lock and cable to prevent the monitor from being removed without your permission.

Connecting your monitor

- ① Ensure that both the computer and the monitor are switched off.
- ② Connect the computer to the monitor with the signal cable. (See page 32 for CONNECTOR PIN ASSIGNMENT.)
- ③ Connect the monitor to the audio equipment with the Audio Cable when using the audio features.
- ④ Connect the Power Cable to the monitor first and then to the power supply.

NOTE ■ The signal cables used for connecting the computer and monitor may vary with the type of computer used. An incorrect connection may cause serious damage to both the monitor and the computer. The cable supplied with the monitor is for a standard 15 pin D-Sub connector. If a special cable is required please contact your local iiyama dealer or regional iiyama office.
■ For connection to Macintosh computers, contact your local iiyama dealer or regional iiyama office for a suitable adaptor.
■ Make sure you tighten the finger screws at each end of the signal cable.

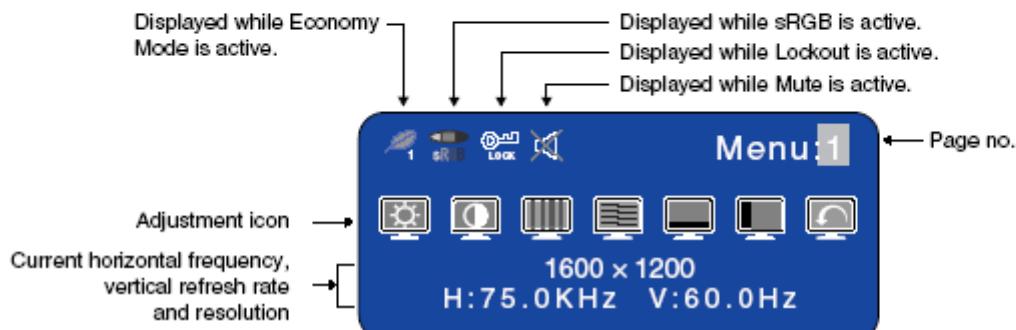
[Example of Connection]



3.3 Adjusting The Picture

To create the best picture, your iiyama LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page 31. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 22 for SCREEN ADJUSTMENTS.

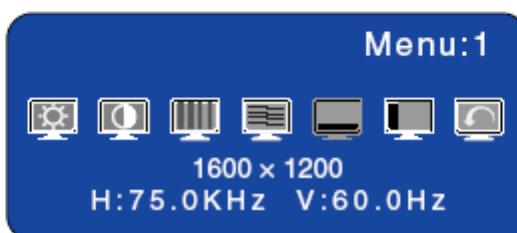
- ① Press the Menu Button to start the On Screen Display feature. There are additional Menu pages which can be switched by using the +/– Buttons.**



- ② Select the Menu page which contains the adjustment icon relating to the adjustment you want to make. Press the Menu Button again. Then, use the +/– Buttons to highlight the desired adjustment icon. Press the Menu Button again.**

- ③ Use the +/– Buttons to make the appropriate adjustment or setting.**

For example, to correct for vertical position, select Menu page number 1 and then press the Menu Button. Then, select (V-Position) by using the +/– Buttons.



An adjustment scale appears after you press the Menu Button. Use the +/– Buttons to change the vertical position settings. The vertical position of the overall display should be changing accordingly while you are doing this.



NOTE

- When button operations are aborted during adjustment, On-Screen Display disappears when the time set for the OSD Off Timer has passed. The Exit button can be used to exit OSD window immediately.
- Adjustments for Clock, Phase and Position are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.

Analog Input

| Adjustment Item | Problem / Option | Button to Press |
|-----------------------------|---|-----------------|
| Brightness *1 Direct | Too dark Too bright | |
| Contrast Direct | Too dull Too intense | |
| Clock *2 | To correct flickering text or lines | |
| Phase *2 | To correct flickering text or lines | |
| V-Position | Too low Too high | |
| H-Position | Too far to the left Too far to the right | |
| Return to Menu | Highlight "Menu :1" again. | |

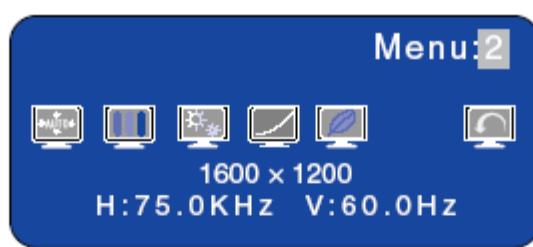
*1 Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright.

*2 See page 22 for SCREENADJUSTMENTS.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Brightness: Press the Brightness Button when the Menu is not displayed.
- Contrast: Press the Contrast Button when the Menu is not displayed.

Menu : 2
 (Analog)


| Adjustment Item | Problem / Option | | | Button to Press |
|-------------------------------------|------------------|---|--|-----------------|
| Auto Set-up *1 Direct | NO | Return to Menu. | | |
| | YES | Adjust Clock, Phase, V-Position and H-Position automatically. | | |
| | Setting | Off | The Auto Set-up is not performed when the signal input is changed. | |
| | | On | Adjust Clock, Phase, V-Position and H-Position automatically when the signal input is changed. | |

- NOTE**
- The brightness of screen varies for several seconds during the adjustment.
 - This function is not performed automatically when changing the signal input because the factory-preset of "Setting" in Auto Set-up is set to Off.

| | | | | |
|--|--------|--------------|----------------------------|------|
| | Cold | Bluish white | | |
| | Center | Normal white | | |
| | Warm | Warmer white | | |
| | s | sRGB | | |
| | (User) | | Too weak Too strong | |

- NOTE**
- sRGB is an international standard which defines and unifies the difference of color appearance between equipment.
 - You can not adjust the Gamma and Economy Mode during sRGB mode because those settings are locked.
 - is displayed while sRGB is active.

| | | | |
|--|-----------|---|------|
| | Sharpness | 1 2 3 4 5 | |
| | | Adjust the picture quality at resolutions of less than 1600 x 1200. You can change the picture quality from 1 to 5 (sharp to soft). Press the + Button to change the picture quality in numerical order. Press the - Button to change the picture quality in reverse numerical order. | |

*1 For best results, use the Auto Set-up in conjunction with the adjustment pattern. See page 22 for SCREENADJUSTMENTS.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Auto Set-up: Press the Auto Button when the Menu is not displayed.

| Menu : 2 (Analog) | | |
|--|--|--|
| Adjustment Item | Problem / Option | |
|  Gamma | Off | Normal |
| | Mode1 | High contrast |
| | Mode2 | Dark |
|  Economy Mode  Direct | Off | Normal |
| | Mode1 | Brightness of back-light is reduced. |
| | Mode2 | Brightness of back-light is reduced more than Mode1. |
| NOTE | ■  is displayed while Economy Mode is active. | |
|  Return to Menu | Highlight "Menu :2" again. | |

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Economy Mode: Press the Menu Button when the Menu is not displayed.
Holding the Menu Button for 1-2 seconds will switch the Economy Mode.

→ Off → Mode1 → Mode2 →

Menu : 3
(Analog)


| Adjustment Item | Problem / Option | | Button to Press | | | | | | | | | | | | |
|--|---|--|-----------------|----------------------|---------|---|----------|--------|----------|---------|---------|---------|-----|----------|--|
| | OSD Position | <p>1 2 3 4 5 You can move the OSD display area to any one of the following 5 positions within the overall display:</p> <p>Press the + Button to move the OSD in numerical order. Press the – Button to move the OSD in reverse numerical order.</p> | | | | | | | | | | | | | |
| | OSD Off Timer | Set the OSD Off Timer for 3-60 seconds. | | | | | | | | | | | | | |
| | Language | <table border="1"> <tr><td>English</td><td>English</td></tr> <tr><td>Deutsch</td><td>German</td></tr> <tr><td>Français</td><td>French</td></tr> <tr><td>Italiano</td><td>Italian</td></tr> <tr><td>Español</td><td>Spanish</td></tr> <tr><td>日本語</td><td>Japanese</td></tr> </table> | English | English | Deutsch | German | Français | French | Italiano | Italian | Español | Spanish | 日本語 | Japanese | |
| English | English | | | | | | | | | | | | | | |
| Deutsch | German | | | | | | | | | | | | | | |
| Français | French | | | | | | | | | | | | | | |
| Italiano | Italian | | | | | | | | | | | | | | |
| Español | Spanish | | | | | | | | | | | | | | |
| 日本語 | Japanese | | | | | | | | | | | | | | |
| | Lockout | <table border="1"> <tr><td>Off</td><td>Lockout is canceled.</td></tr> <tr><td>On</td><td>All adjustment items except this function are locked out.</td></tr> </table> | Off | Lockout is canceled. | On | All adjustment items except this function are locked out. | | | | | | | | | |
| Off | Lockout is canceled. | | | | | | | | | | | | | | |
| On | All adjustment items except this function are locked out. | | | | | | | | | | | | | | |
| NOTE ■ is displayed while Lockout is active. | | | | | | | | | | | | | | | |

| | | |
|--|----------------|----------------------------|
| | Return to Menu | Highlight "Menu :3" again. |
|--|----------------|----------------------------|

| Menu : 4 (Analog) | | |
|---|-------------------------|--|
|      Menu:4 1600 × 1200 H:75.0KHz V:60.0Hz | | |
| Adjustment Item | Problem / Option | Button to Press |
|  Volume Direct | Too soft Too loud |     |
| NOTE ■  is displayed while Mute is active. | | |
|  Signal Select Direct | Analog Digital | Select the Analog input (D-SUB). Select the Digital input (DVI-D). |
| NOTE Select either Analog or Digital for the signal input when both of the signal inputs are connected to a signal source. Switch D-SUB and DVI-D whenever pressing the input button. When only one of the two signal inputs is connected to the signal source, the one connected is automatically selected. Input Button is not available if there is no signal input from the selected connector or during the power management mode. | | |
|  Full Screen | Off Mode 1 Mode 2 | The picture is displayed at the optimum resolution. Stretch the picture and keep the screen size ratio. Stretch the picture to fit the full screen. |
| NOTE Adjust the screen size at resolutions of less than 1600 × 1200. When selecting "1" or "2" displayed text or lines may be blurred, or brightness may not be uniform when inputting stripe pattern signal or the like. | | |

| | | |
|--|----------------------------|----------------------------------|
|  Reset | NO | Return to Menu. |
| | YES | Factory-preset data is restored. |
|  Return to Menu | Highlight "Menu :4" again. | |

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Volume: Press the Volume Button when the Menu is not displayed.
Holding the Volume Button for 1-2 seconds will switch the Mute function between ON and OFF.
- Signal Select: Press the Input Button when the Menu is not displayed.

Digital Input**Menu : 1**

(Digital)

Menu:1

1600 × 1200

H:75.0KHz V:60.0Hz

| Adjustment Item | Problem / Option | | | Button to Press |
|---|-------------------------|--------------|-------------|------------------------|
| Brightness *1 Direct | Too dark Too bright | | | |
| Contrast Direct | Too dull Too intense | | | |
| Color Temp. | Cold | Bluish white | | |
| | Center | Normal white | | |
| | Warm | Warmer white | | |
| | s | sRGB | | |
| | (User) | | R G B | Too weak Too strong |
| NOTE ■ sRGB is an international standard which defines and unifies the difference of color appearance between equipment. ■ You can not adjust the Gamma and Economy Mode during sRGB mode because those settings are locked. ■ is displayed while sRGB is active. | | | | |

| | | |
|---|-----------|---------------|
| Sharpness | 1 2 3 4 5 | |
| Adjust the picture quality at resolutions of less than 1600 × 1200. You can change the picture quality from 1 to 5 (sharp to soft). Press the + Button to change the picture quality in numerical order. Press the – Button to change the picture quality in reverse numerical order. | | |
| Gamma | Off | Normal |
| | Mode1 | High contrast |
| | Mode2 | Dark |

*1 Adjust the Brightness when you are using the monitor in a dark room and feel the screen is too bright.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Brightness: Press the Brightness Button when the Menu is not displayed.
- Contrast: Press the Contrast Button when the Menu is not displayed.

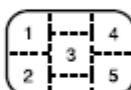
| Menu : 1 (Digital) | | |
|---|--|--|
| Adjustment Item | Problem / Option | |
|  Economy Mode Direct | Off | Normal |
| | Mode1 | Brightness of back-light is reduced. |
| | Mode2 | Brightness of back-light is reduced more than Mode1. |
| NOTE | ■  is displayed while Economy Mode is active. | |
|  Return to Menu | Highlight "Menu :1" again. | |

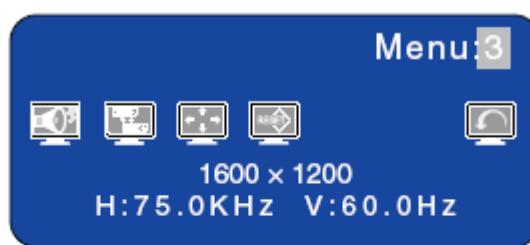
Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Economy Mode: Press the Menu Button when the Menu is not displayed.
Holding the Menu Button for 1-2 seconds will switch the Economy Mode.

→ Off → Mode1 → Mode2 →

| Menu : 2 (Digital) | | | |
|---|---|---|--|
| Adjustment Item | Problem / Option | | Button to Press |
|  OSD Position | 1 2 3 4 5 You can move the OSD display area to any one of the following 5 positions within the overall display:  | |     |
|  OSD Off Timer | Set the OSD Off Timer for 3-60 seconds. | |     |
|  Language | English | English | |
| | Deutsch | German | |
| | Français | French | |
| | Italiano | Italian | |
| | Español | Spanish | |
| | 日本語 | Japanese | |
|  Lockout | Off | Lockout is canceled. | |
| | On | All adjustment items except this function are locked out. | |
| NOTE ■  is displayed while Lockout is active. | | | |
|  Return to Menu | Highlight "Menu :2" again. | | |

Menu : 3
(Digital)


| Adjustment Item | Problem / Option | Button to Press |
|---|-------------------------|---|
| Volume Direct | Too soft Too loud | |
| NOTE ■ is displayed while Mute is active. | | |
| Signal Select Direct | Analog Digital | Select the Analog input (D-SUB). Select the Digital input (DVI-D). |
| NOTE Select either Analog or Digital for the signal input when both of the signal inputs are connected to a signal source. Switch D-SUB and DVI-D whenever pressing the input button. When only one of the two signal inputs is connected to the signal source, the one connected is automatically selected. Input Button is not available if there is no signal input from the selected connector or during the power management mode. | | |
| Full Screen | Off Mode 1 Mode 2 | The picture is displayed at the optimum resolution. Stretch the picture and keep the screen size ratio. Stretch the picture to fit the full screen. |
| NOTE Adjust the screen size at resolutions of less than 1600 × 1200. When selecting "1" or "2" displayed text or lines may be blurred, or brightness may not be uniform when inputting stripe pattern signal or the like. | | |

| | | |
|----------------|----------------------------|----------------------------------|
| Reset | NO | Return to Menu. |
| | YES | Factory-preset data is restored. |
| Return to Menu | Highlight "Menu :3" again. | |

Direct

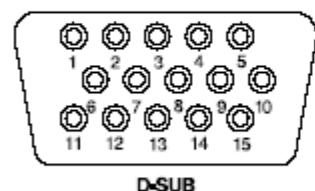
You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Volume: Press the Volume Button when the Menu is not displayed.
Holding the Volume Button for 1-2 seconds will switch the Mute function between ON and OFF.
- Signal Select: Press the Input Button when the Menu is not displayed.

4. Input/Output Specification

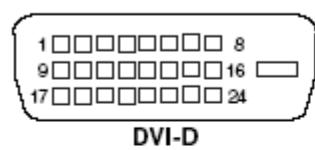
4.1 Input Signal Connector

- D-Sub mini 15pin Connector



| Pin | Input Signal | Pin | Input Signal |
|-----|-----------------------------|-----|--------------------------|
| 1 | Red video | 9 | |
| 2 | Green video / Sync on green | 10 | Ground |
| 3 | Blue video | 11 | Reserved port |
| 4 | Reserved port | 12 | Data line (SDA)* |
| 5 | Ground | 13 | H-Sync/HV-Sync |
| 6 | Red video ground | 14 | V-Sync |
| 7 | Green video ground | 15 | Clock line (SCL)* |
| 8 | Blue video ground | | * Compliant to VESA DDC. |

- DVI-D 24pin Connector



| Pin | Input Signal | Pin | Input Signal |
|-----|-----------------------|-----|-----------------------|
| 1 | T.M.D.S Data 2- | 13 | |
| 2 | T.M.D.S Data 2+ | 14 | |
| 3 | T.M.D.S Data 2 Ground | 15 | Ground |
| 4 | | 16 | Hot Plug Detect |
| 5 | | 17 | T.M.D.S Data 0- |
| 6 | Clock line (SCL) * | 18 | T.M.D.S Data 0+ |
| 7 | Data line (SDA) * | 19 | T.M.D.S Data 0 Ground |
| 8 | | 20 | |
| 9 | T.M.D.S Data 1- | 21 | |
| 10 | T.M.D.S Data 1+ | 22 | T.M.D.S Clock Ground |
| 11 | T.M.D.S Data 1 Ground | 23 | T.M.D.S Clock + |
| 12 | | 24 | T.M.D.S Clock - |

* Compliant to VESA DDC.

4.2 Factory Preset Display Modes

| Video Mode | | Horizontal Frequency | Vertical Frequency | Dot Clock |
|------------|--------------------|----------------------|--------------------|------------|
| VESA | VGA 640 × 480 | 31.469kHz | 59.940Hz | 25.175MHz |
| | | 37.861kHz | 72.809Hz | 31.500MHz |
| | | 37.500kHz | 75.000Hz | 31.500MHz |
| | | 43.269kHz | 85.008Hz | 36.000MHz |
| | SVGA 800 × 600 | 35.156kHz | 56.250Hz | 36.000MHz |
| | | 37.879kHz | 60.317Hz | 40.000MHz |
| | | 48.077kHz | 72.188Hz | 50.000MHz |
| | | 46.875kHz | 75.000Hz | 49.500MHz |
| | | 53.674kHz | 85.061Hz | 56.250MHz |
| | XGA 1024 × 768 | 48.363kHz | 60.004Hz | 65.000MHz |
| | | 56.476kHz | 70.069Hz | 75.000MHz |
| | | 60.023kHz | 75.029Hz | 78.750MHz |
| | | 68.677kHz | 84.997Hz | 94.500MHz |
| | SXGA 1152 × 864 | 67.500kHz | 75.000Hz | 108.000MHz |
| | | 63.981kHz | 60.020Hz | 108.000MHz |
| | | 79.976kHz | 75.025Hz | 135.000MHz |
| | UXGA 1600 × 1200 | 75.000kHz | 60.000Hz | 162.000MHz |
| VGA TEXT | 640 × 400 | 31.469kHz | 70.087Hz | 25.175MHz |
| Macintosh | 640 × 480 | 35.000kHz | 66.667Hz | 30.240MHz |
| | 832 × 624 | 49.725kHz | 74.500Hz | 57.283MHz |
| | 1024 × 768 | 60.150kHz | 74.720Hz | 80.000MHz |
| PC9801 | 640 × 400 | 24.827kHz | 56.424Hz | 21.053MHz |

4.3 Panel Specification

4.3.1 Features

High contrast ratio, high aperture structure
 SPVA(Super Patterned Vertical Alignment) Mode
 Wide viewing angle ($\pm 178^\circ$)
 High speed response
 UXGA (1600 x1200) resolution
 Replaceable 2 triple CCFTs (Cold Cathode Fluorescent Tube)
 Low Power consumption
 DE only mode
 Narrow bezel and compact design
 Pb-free configuration
 RoHS compliance

Applications

Workstation & desktop monitors

Display terminals for AV application products

Monitors for industrial and medical application products

If the module is used to other applications besides the above, please contact SEC in advance

4.3.2 Display Characteristics

| Items | Specification | Unit |
|---------------------|------------------------------|-------------------|
| Pixel Pitch | 0.255(H) x 0.255(W) | mm |
| Active Display Area | 408(H) x 306(V) | mm |
| Surface Treatment | Haze 44% , Hard-coating (3H) | |
| Display Colors | 16.7M (true 8-bit) | colors |
| Number of Pixels | 1600 x 1200 | pixel |
| Pixel Arrangement | RGB vertical stripe | |
| Display Mode | Normally Black | |
| Luminance of White | 300(Typ.) | cd/m ² |

| Item | Min. | Typ. | Max. | Unit | Note |
|-------------|----------------|-------|-------|-------|----------------------|
| Module size | Horizontal (H) | 431.5 | 432.0 | 432.5 | mm |
| | Vertical (V) | 331.0 | 331.5 | 332.0 | mm |
| | Depth (D) | | | 25.5 | mm |
| Weight | | | 3,300 | g | LCD module only |
| | | | | g | w/ Inverter assembly |

Note (1) Mechanical tolerance is $\pm 0.5\text{mm}$ unless there is a special comment.

4.3.3 Optical Characteristics

The optical characteristics should be measured in a dark room or equivalent.

Measuring equipment : TOPCON BM-7, SPECTRORADIOMETER SR-3

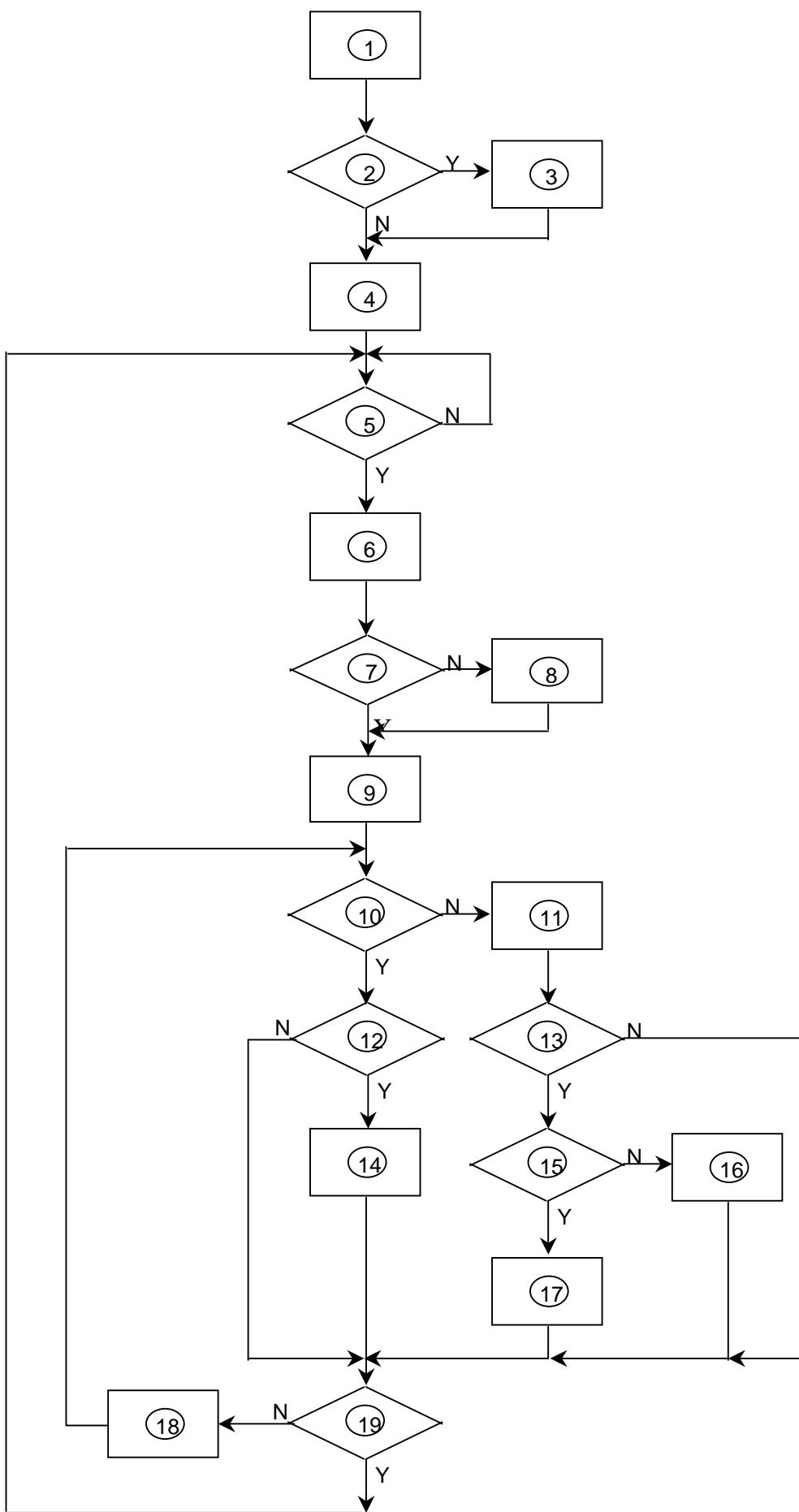
(Ta = 25 ± 2°C, VDD=5V, fv= 60Hz, fDCLK=65.125MHz, IL = 7.5mArms)

| Item | | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--|--------|----------------|--|-------|-------|-------|-------|
| Contrast Ratio (Center of screen) | | C/R | | 600 | 900 | - | |
| Response Time | On/Off | Tr+Tf | Normal $\theta_{L,R}=0$ $\theta_{U,D}=0$ | - | 16 | 20 | msec |
| | G-To-G | $T_{G-G,Avg}$ | | - | 8 | - | msec |
| | | $T_{G-G,long}$ | | - | 12 | - | msec |
| Luminance of White (Center of screen) | | Y_L | | 250 | 300 | - | cd/m2 |
| Color Chromaticity (CIE 1931) | Red | Rx | Viewing Angle | 0.610 | 0.640 | 0.670 | |
| | | Ry | | 0.300 | 0.330 | 0.360 | |
| | Green | Gx | | 0.270 | 0.300 | 0.330 | |
| | | Gy | | 0.570 | 0.600 | 0.630 | |
| | Blue | Bx | | 0.120 | 0.150 | 0.180 | |
| | | By | | 0.030 | 0.060 | 0.090 | |
| | White | Wx | | 0.283 | 0.313 | 0.343 | |
| | | Wy | | 0.299 | 0.329 | 0.359 | |

| | | | | | | | |
|----------------------------------|-------|---------------|--|---|-------|------|--|
| Color Chromaticity (CIE 1976) | Red | Ru' | | - | 0.451 | - | |
| | | Rv' | | - | 0.523 | - | |
| | Green | Gu' | | - | 0.125 | - | |
| | | Gv' | | - | 0.563 | - | |
| | Blue | Bu' | | - | 0.175 | - | |
| | | Bv' | | - | 0.158 | - | |
| | White | Wu' | | - | 0.198 | - | |
| | | Wv' | | - | 0.468 | - | |
| C.G.L | White | $\Delta u'v'$ | | - | - | 0.02 | |

5. Block Diagram

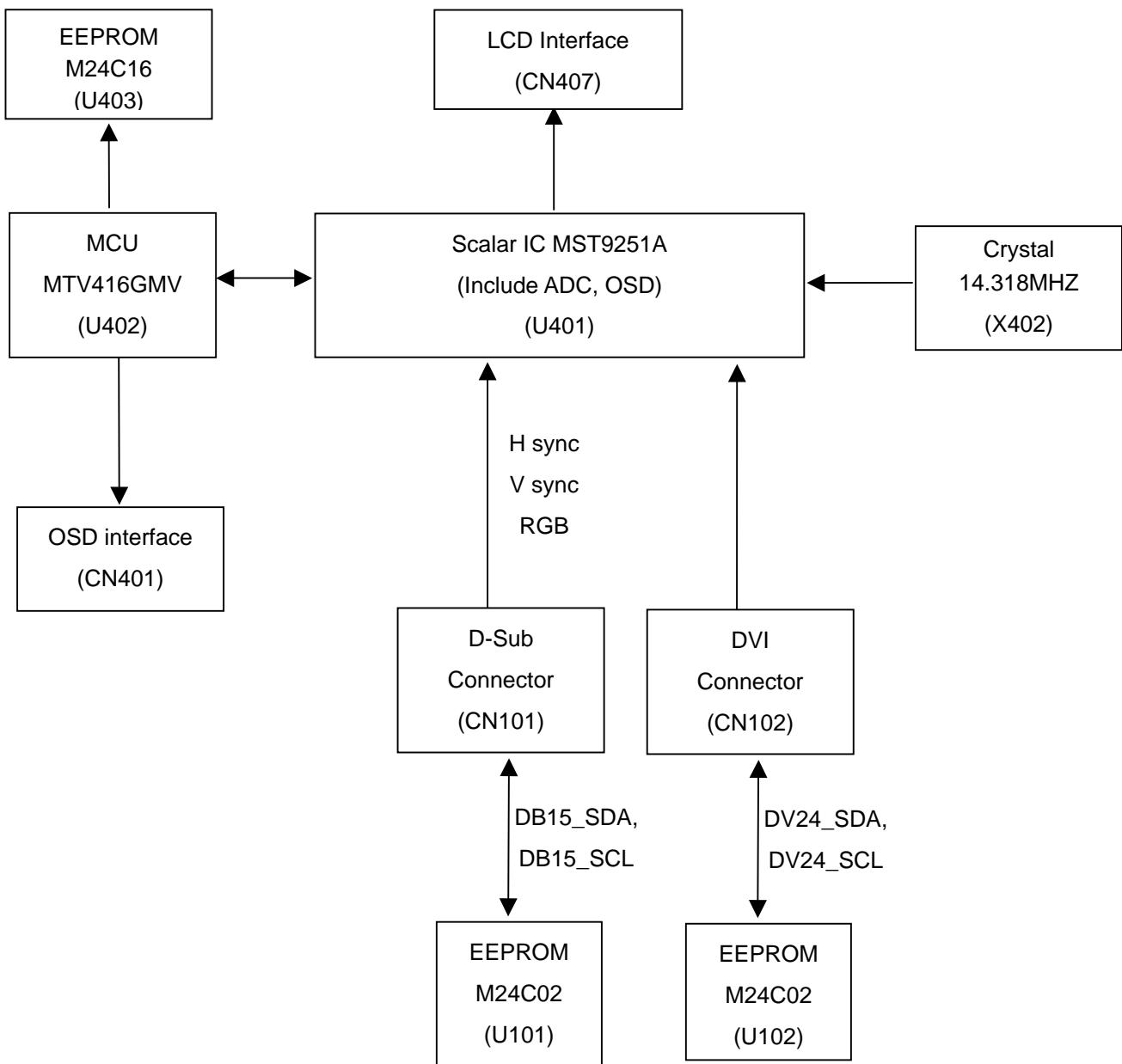
5.1 Software Flow Chart



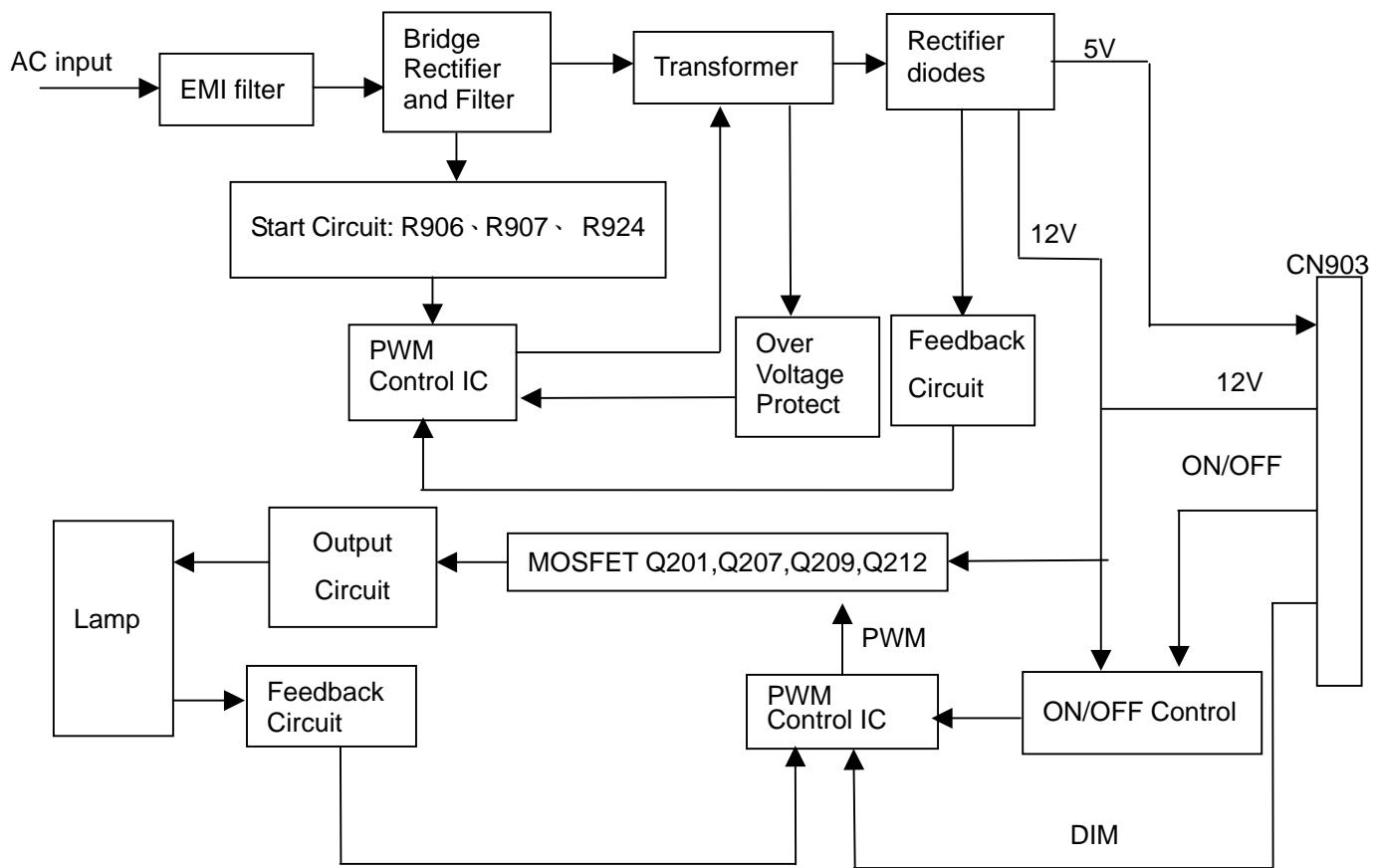
- 1) MCU initializes.
- 2) Is the EPROM blank?
- 3) Program the EPROM by default values.
- 4) Get the PWM value of brightness from EPROM.
- 5) Is the power key pressed?
- 6) Clear all global flags.
- 7) Are the AUTO and SELECT keys pressed?
- 8) Enter factory mode.
- 9) Save the power key status into EPROM.
 Turn on the LED and set it to green color.
 Scalar initializes.
- 10) In standby mode?
- 11) Update the lifetime of back light.
- 12) Check the analog port, are there any signals coming?
- 13) Does the scalar send out an interrupt request?
- 14) Wake up the scalar.
- 15) Are there any signals coming from analog port?
- 16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
- 17) Program the scalar to be able to show the coming mode.
- 18) Process the OSD display.
- 19) Read the keyboard. Is the power key pressed?

5.2 Electrical Block Diagram

5.2.1 Main Board



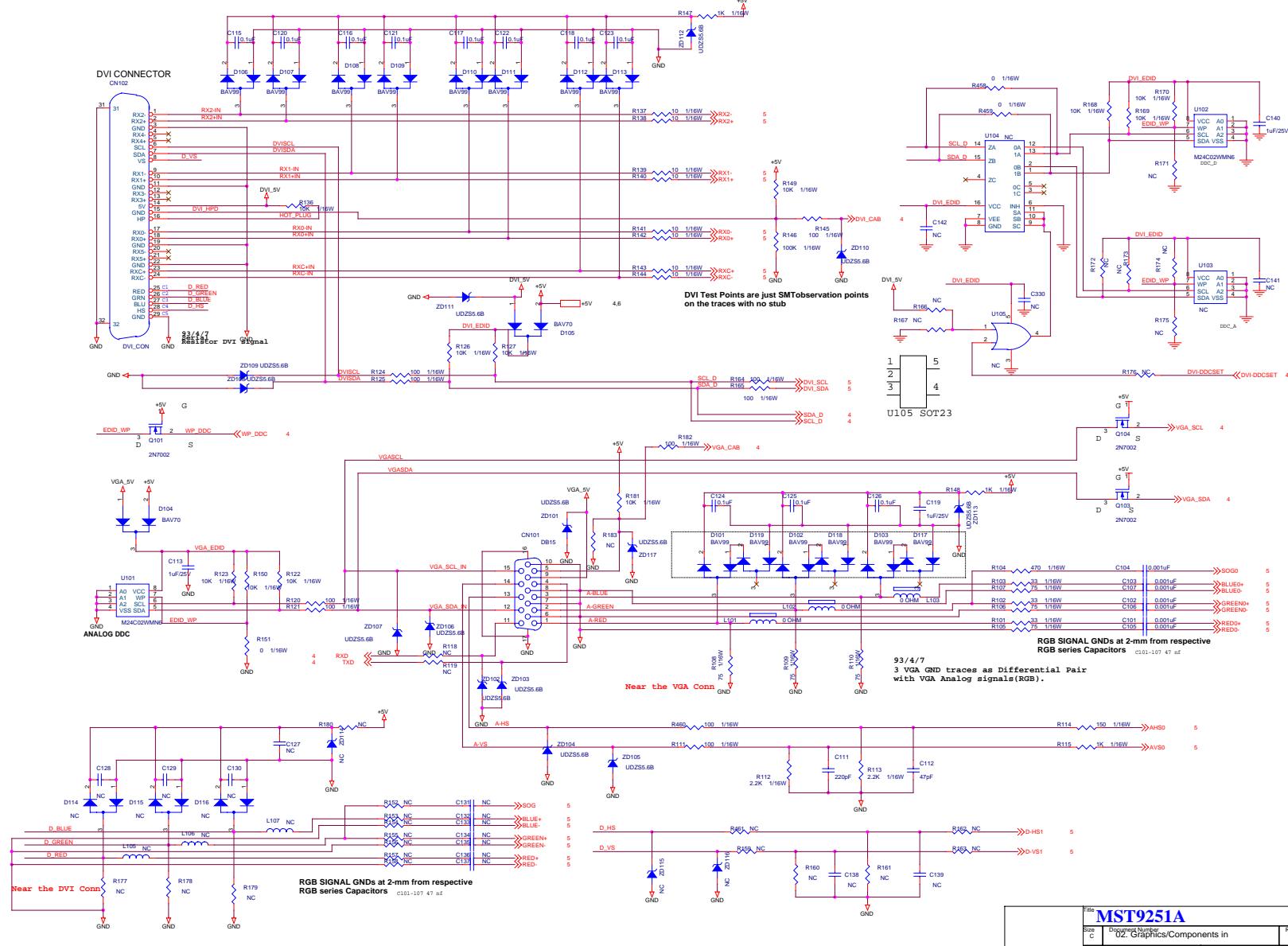
5.2.2 Inverter/Power Board

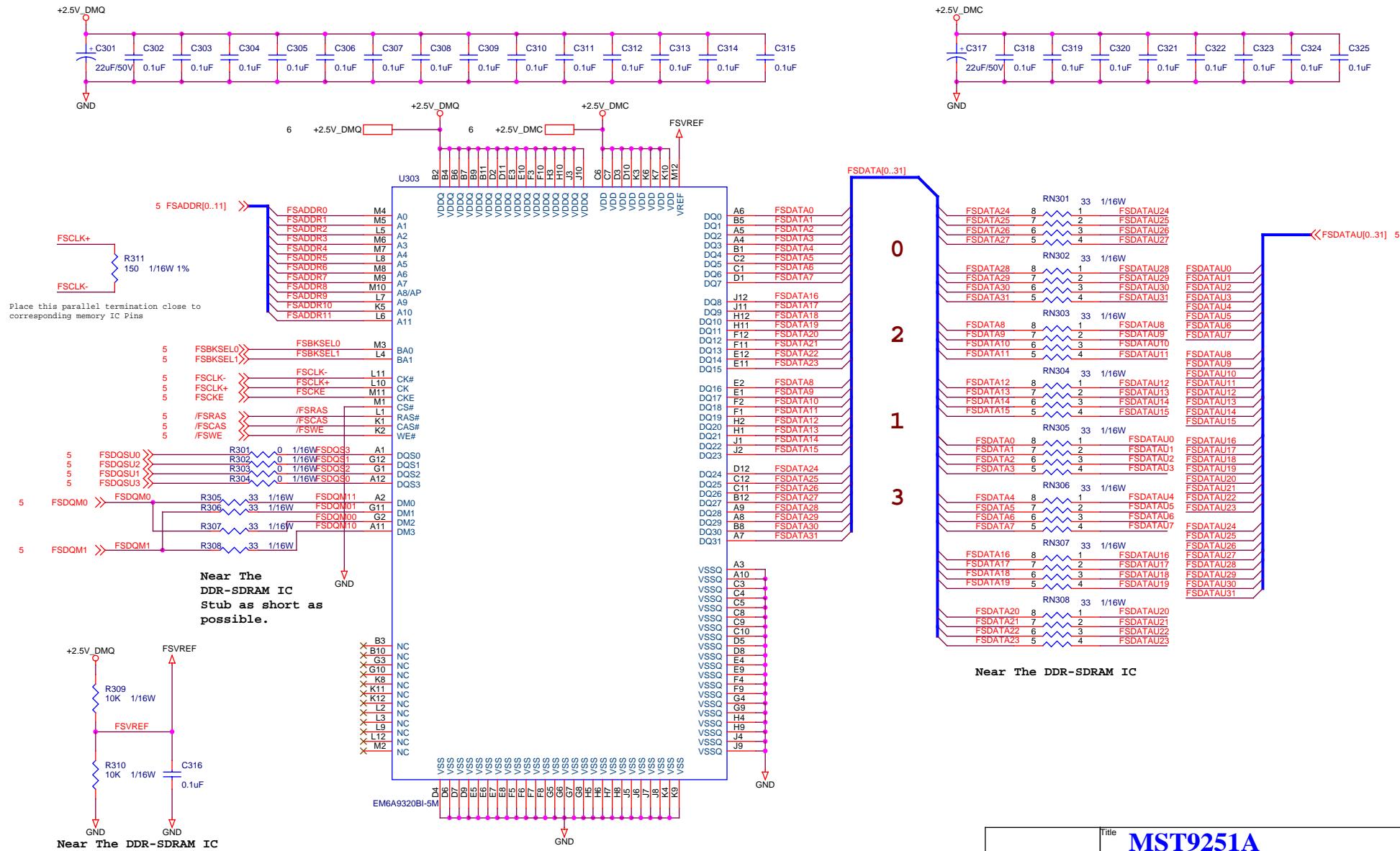


6. Schematic

6.1 Main Board

715G1603-1





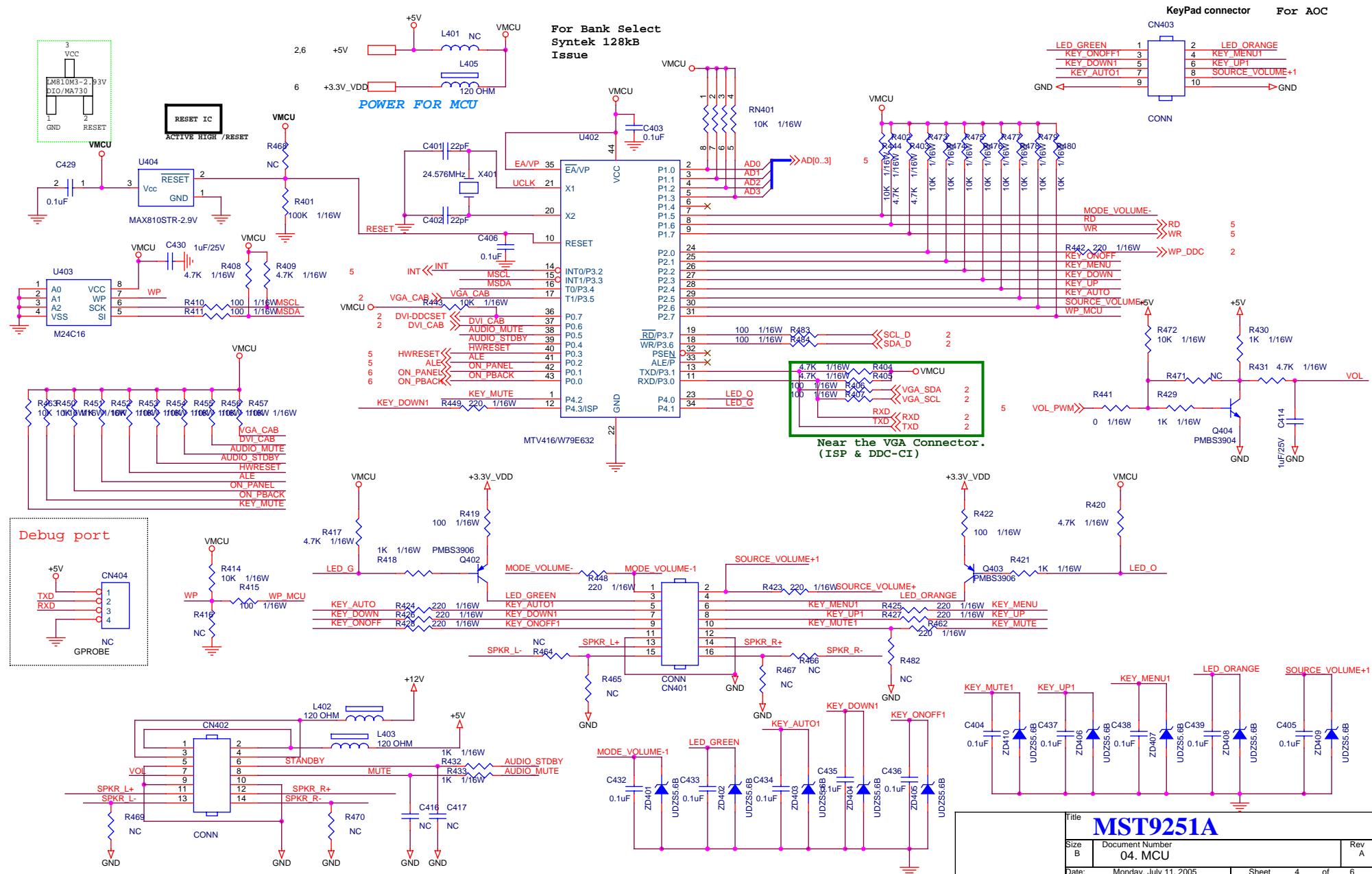
| | | | |
|------|-----------------|------------------|-----|
| | Title | MST9251A | |
| Size | Document Number | 03. Frame Memory | Rev |
| B | | | A |

Date: Monday, July 11, 2005

Sheet 3 of 6

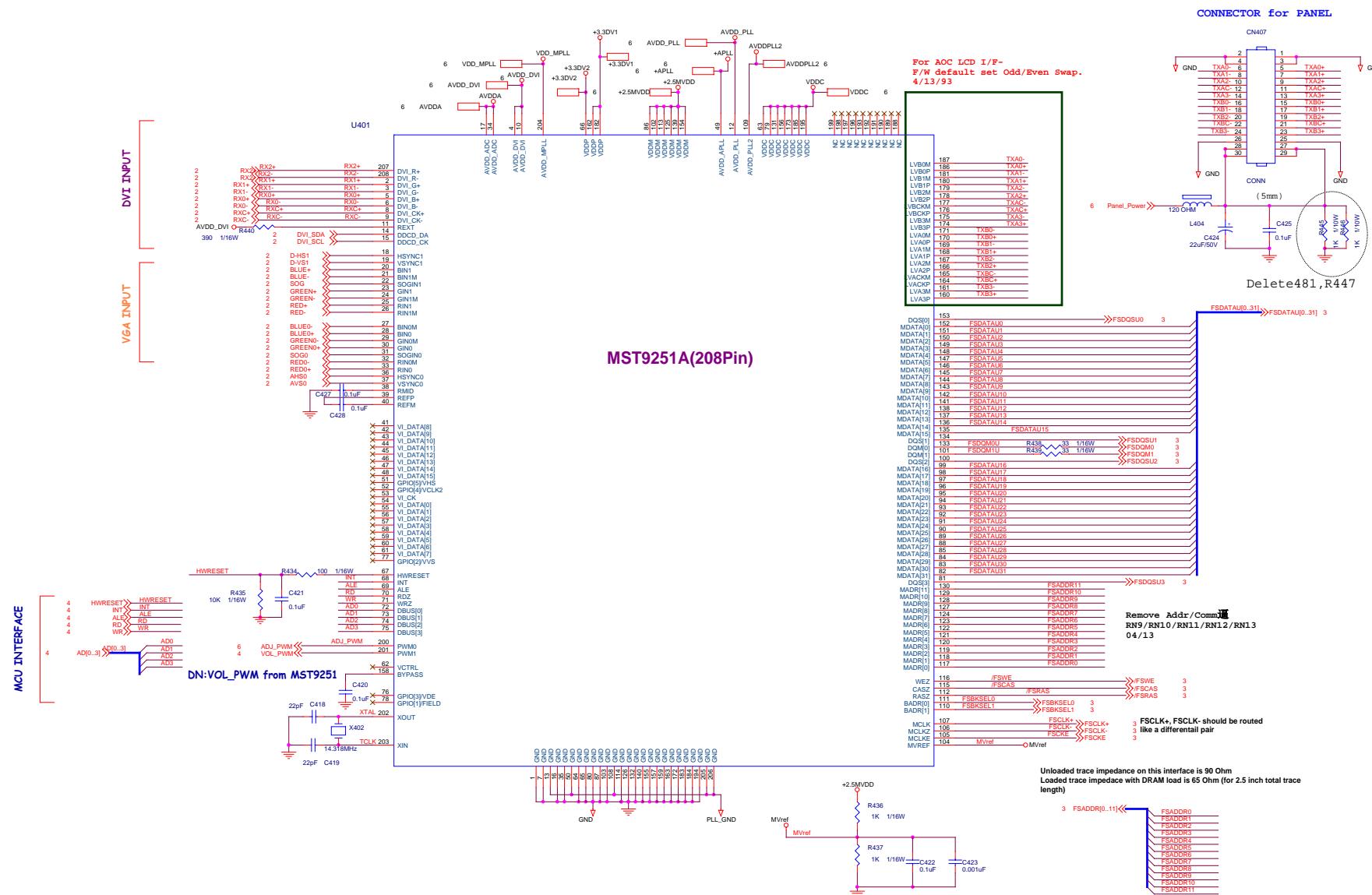
20" LCD Color Monitor

IIYAMA PLE511S-B&W2U



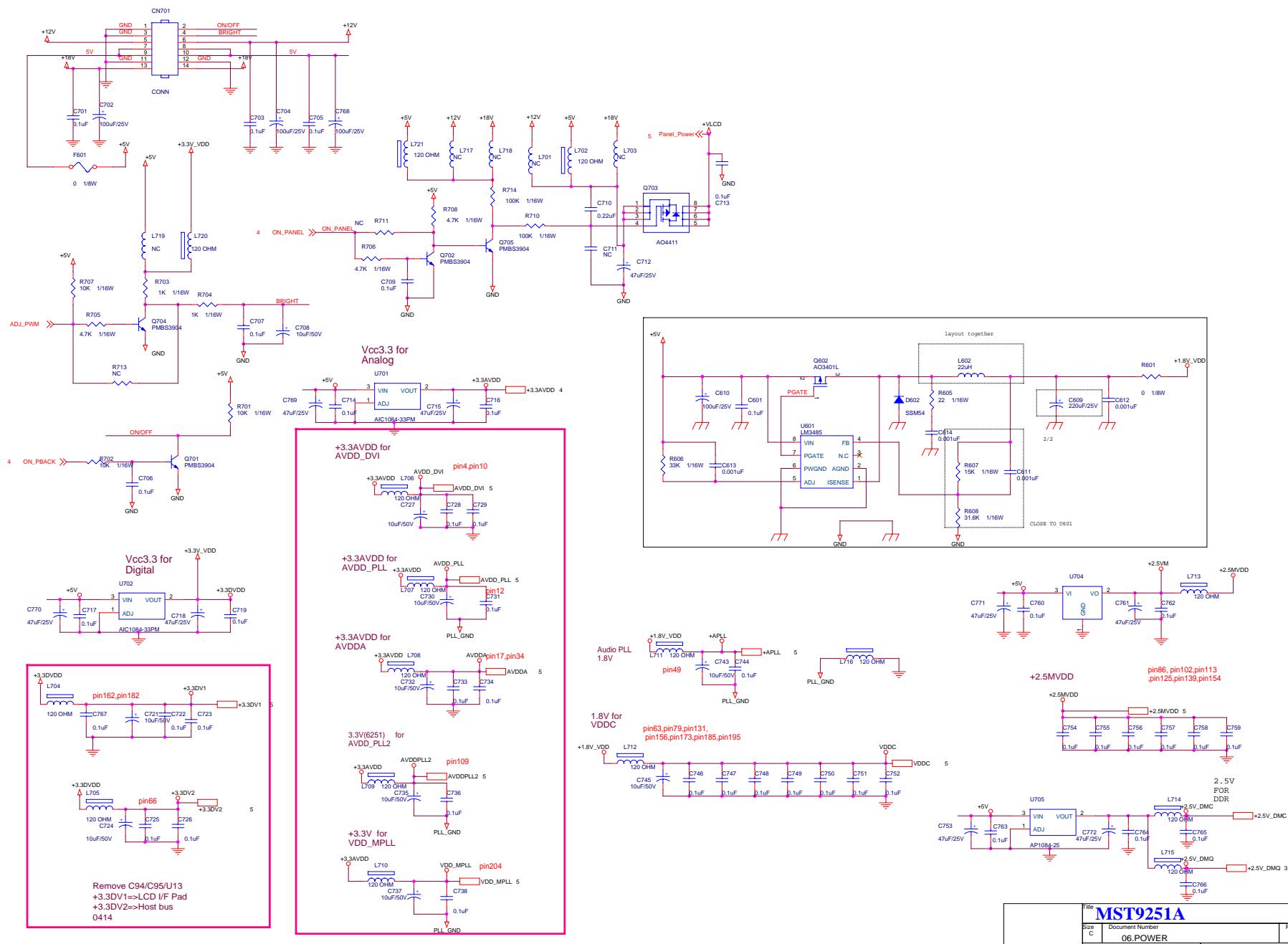
20" LCD Color Monitor

IIYAMA PLE511S-B&W2U



20" LCD Color Monitor

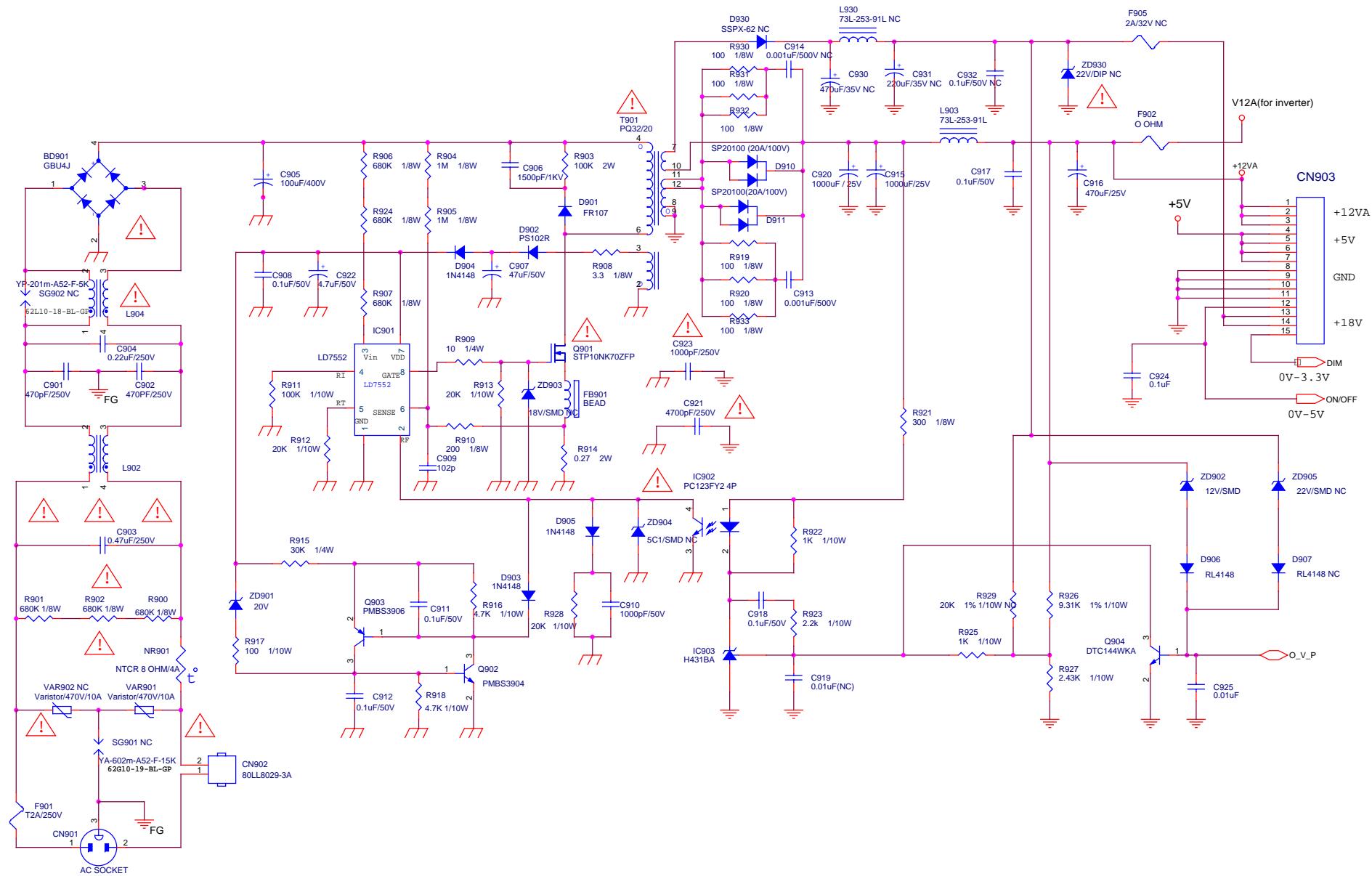
IIYAMA PLE511S-B&W2U

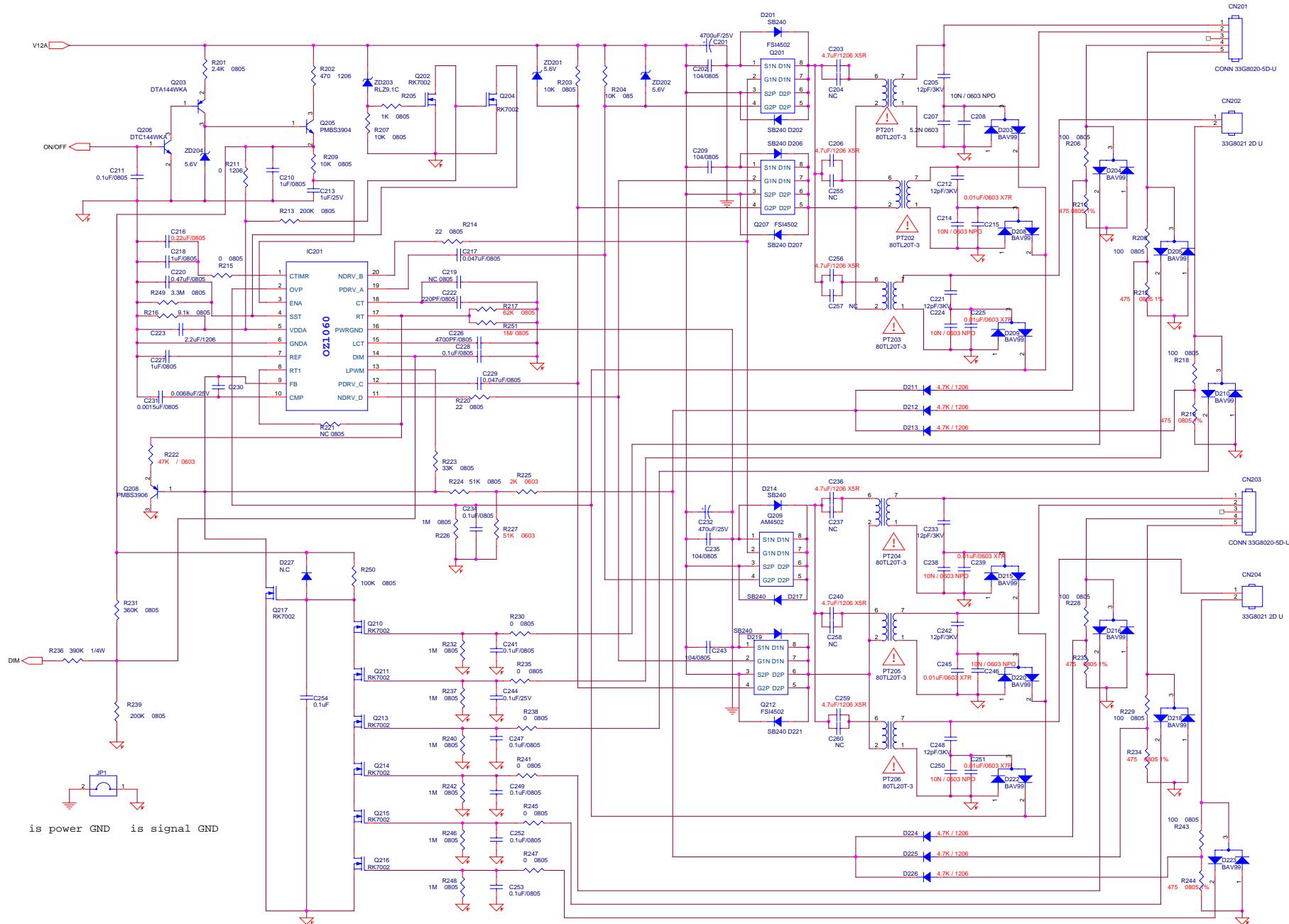


| MST9251A | | |
|-----------------------------|--------------------------|--------|
| Size C | Document Number 06_POWER | Rev. A |
| Date: Monday, July 11, 2005 | Sheet 6 of 6 | |

6.2 Power Board

715G1646 1

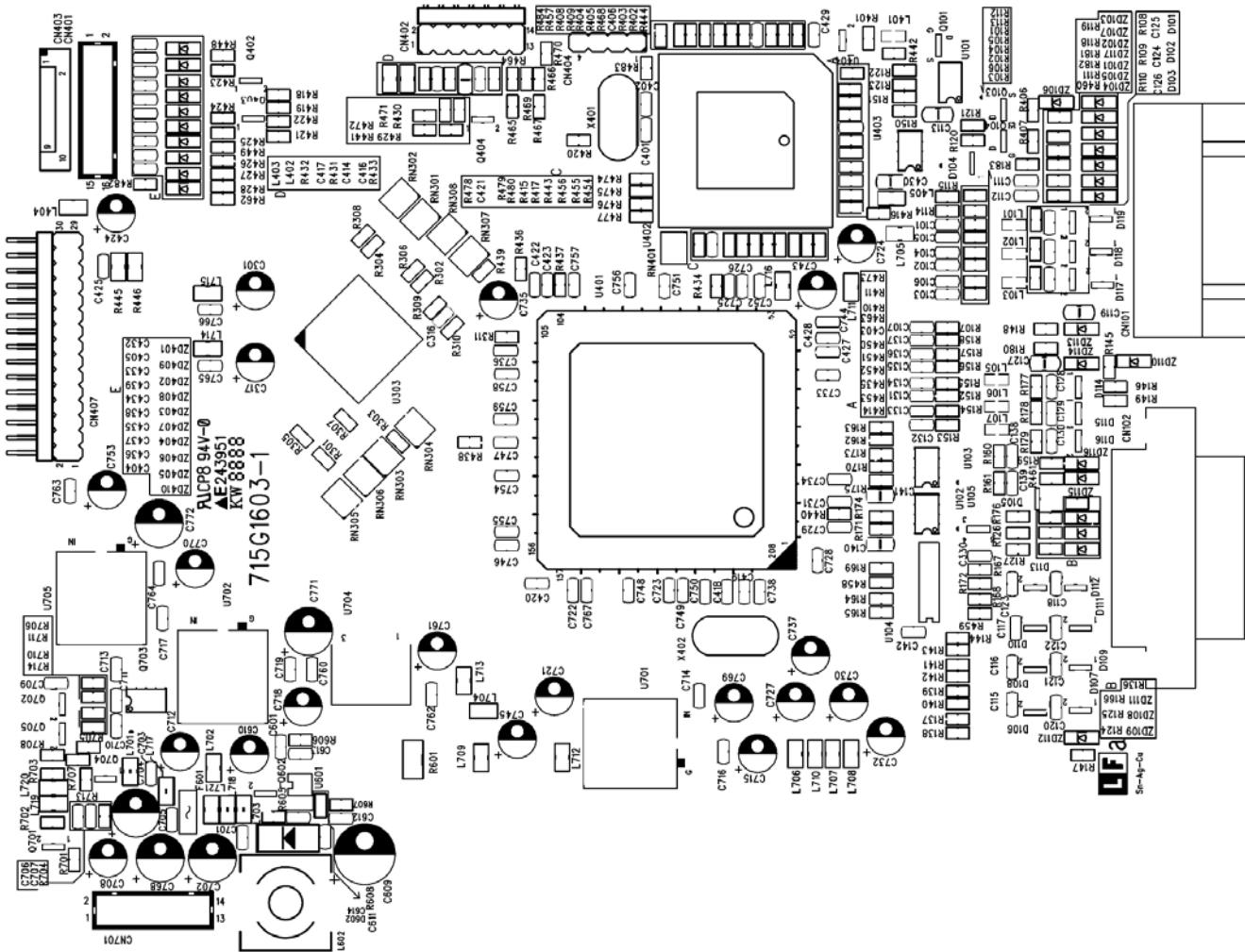


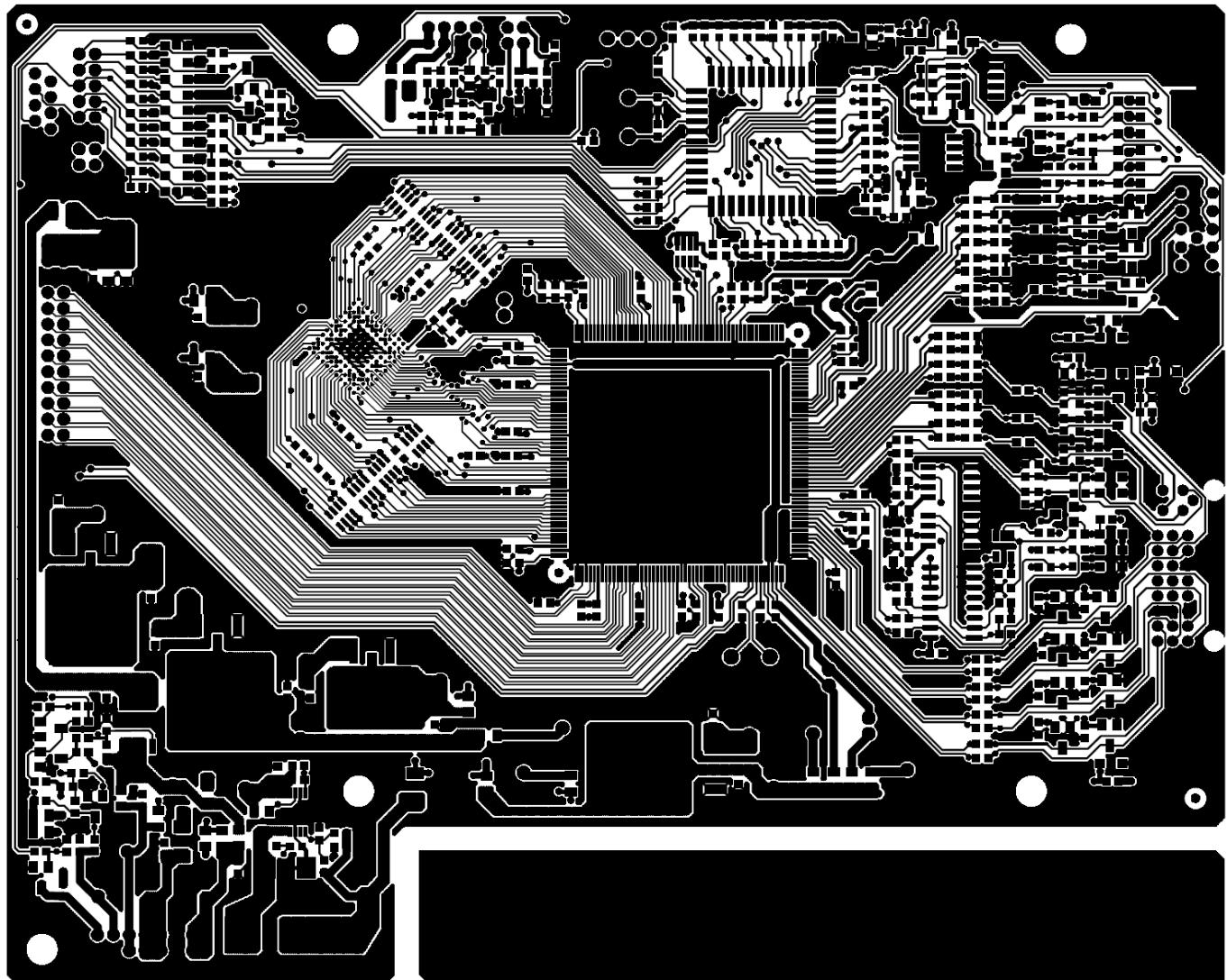


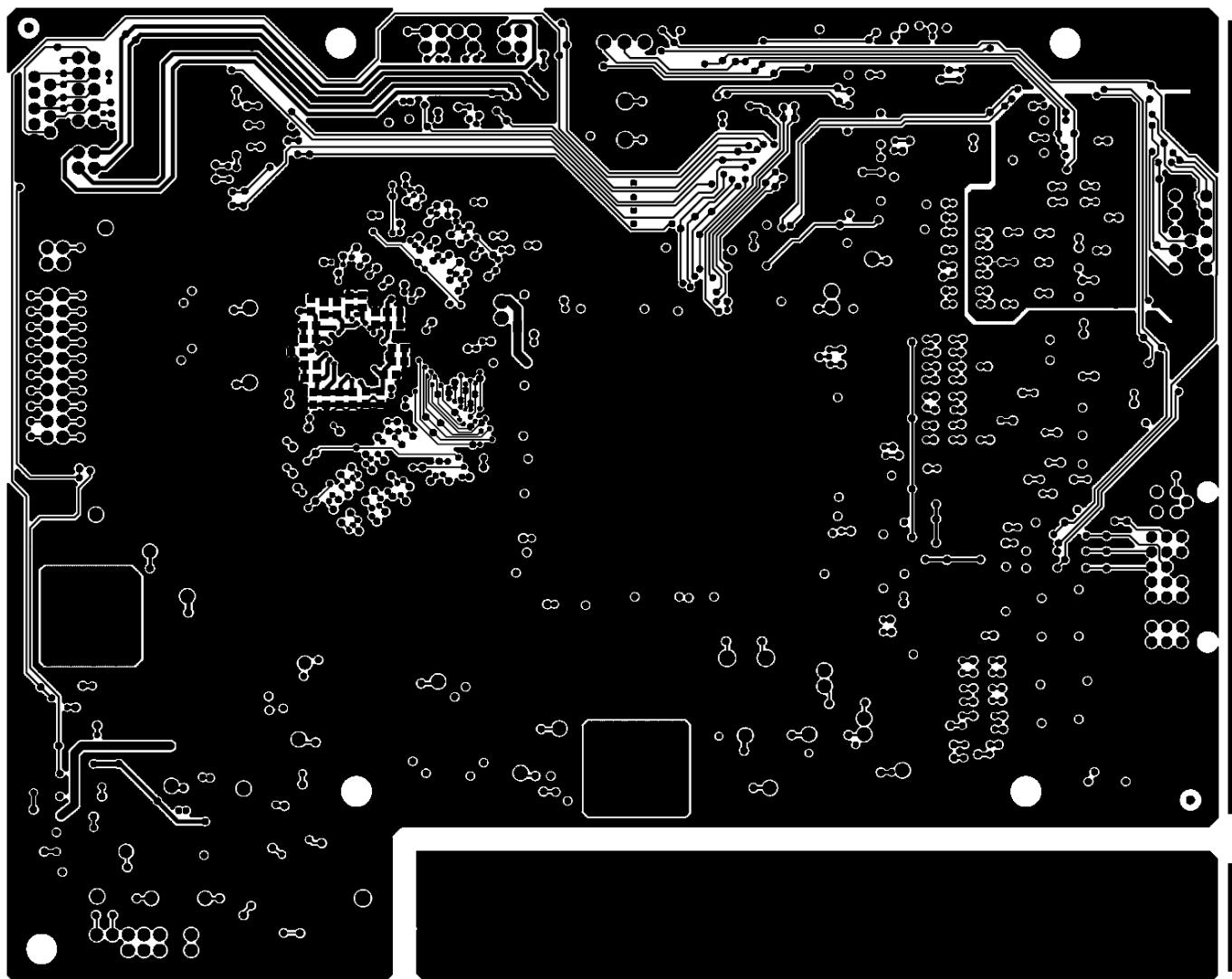
7. PCB Layout

7.1 Main Board

715G1603-1

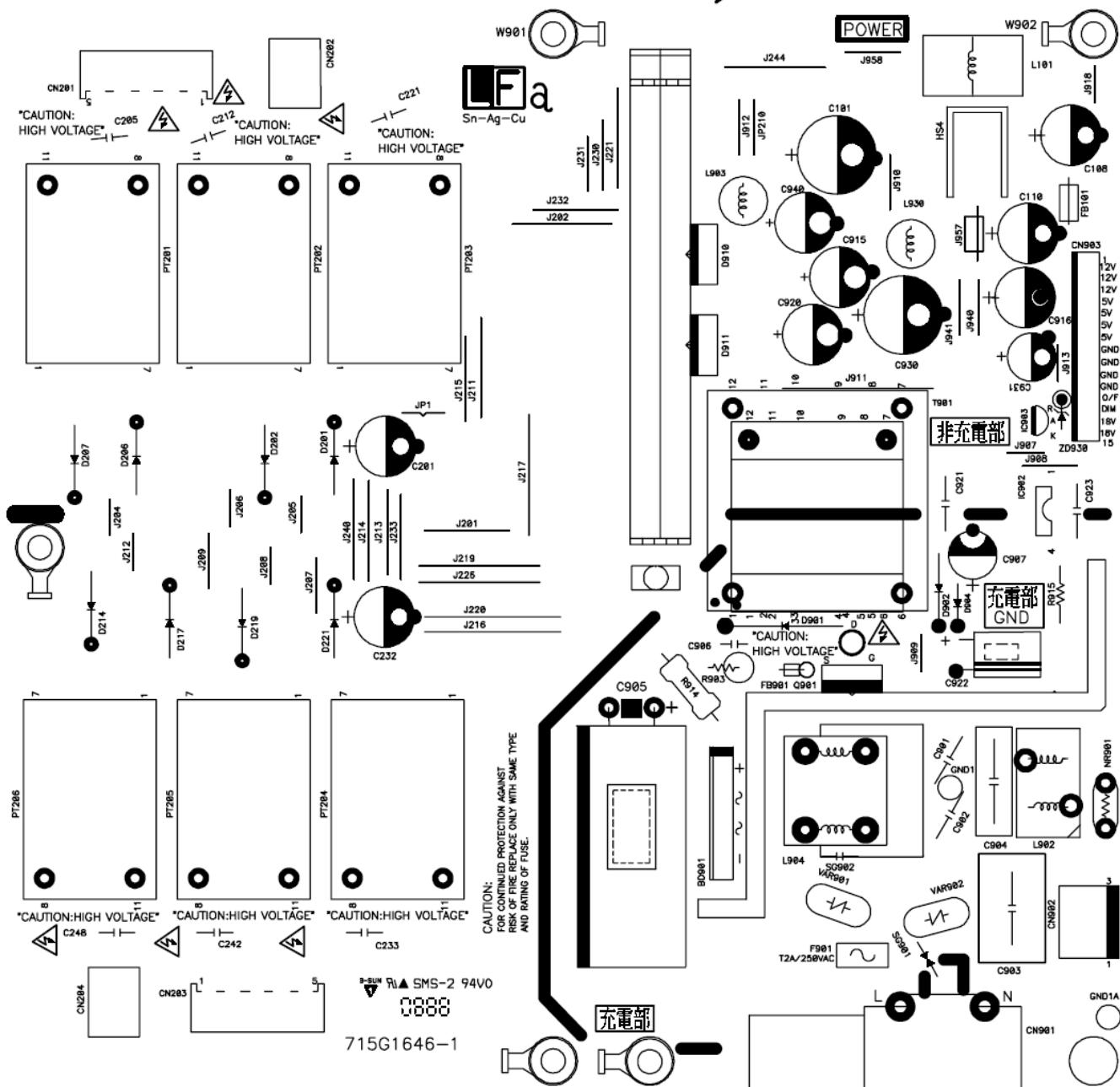


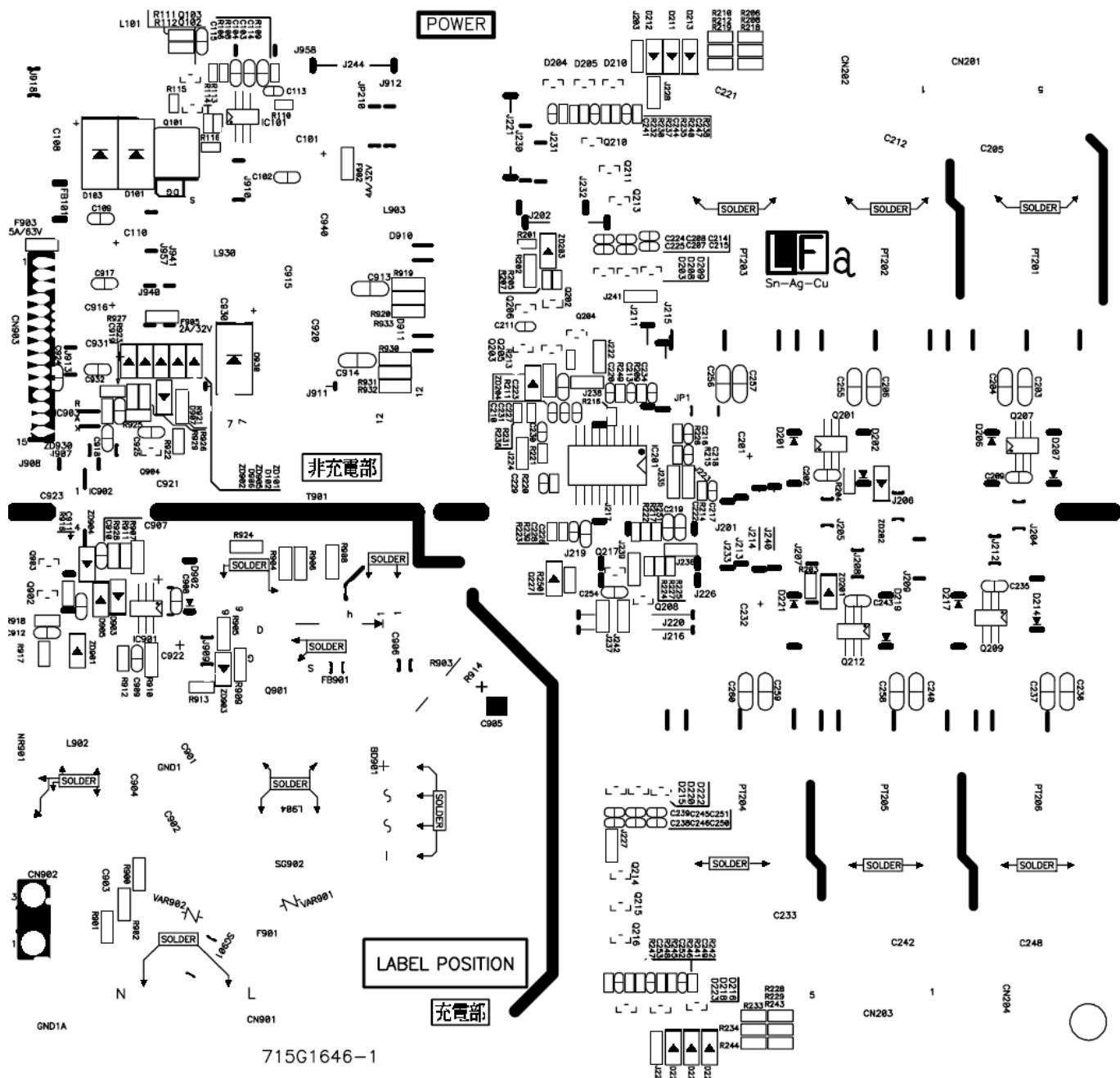


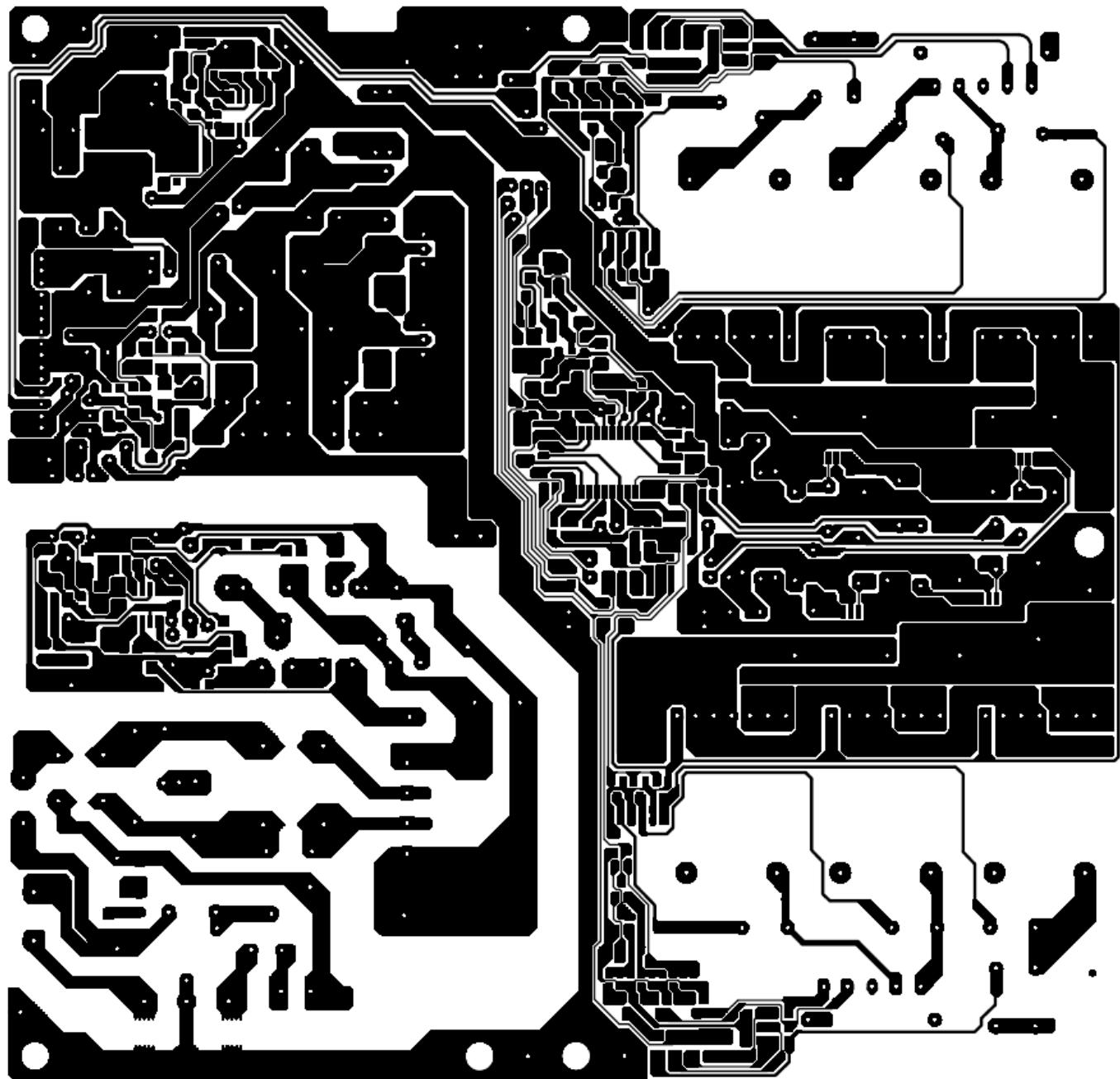


7.2 Power Board

715G1646 1

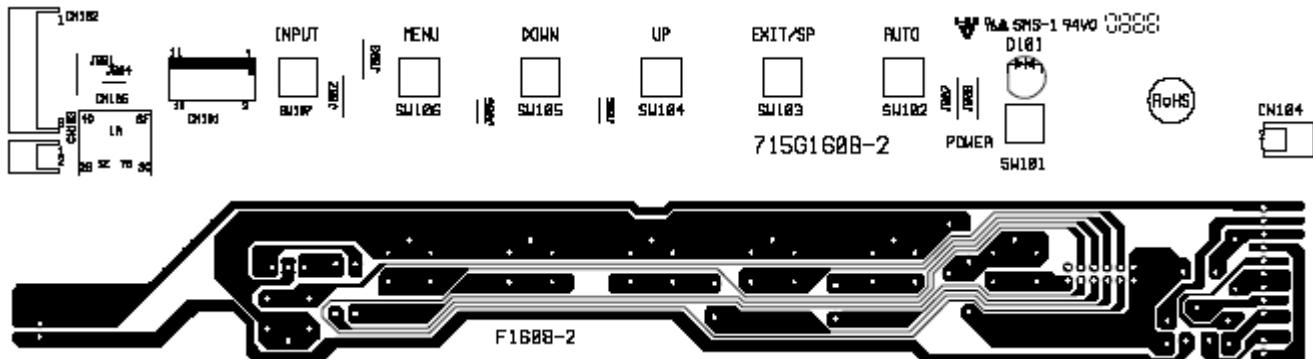






7.3 Key Board

715G1608 2



8. Maintainability

8.1 Equipments And Tools Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

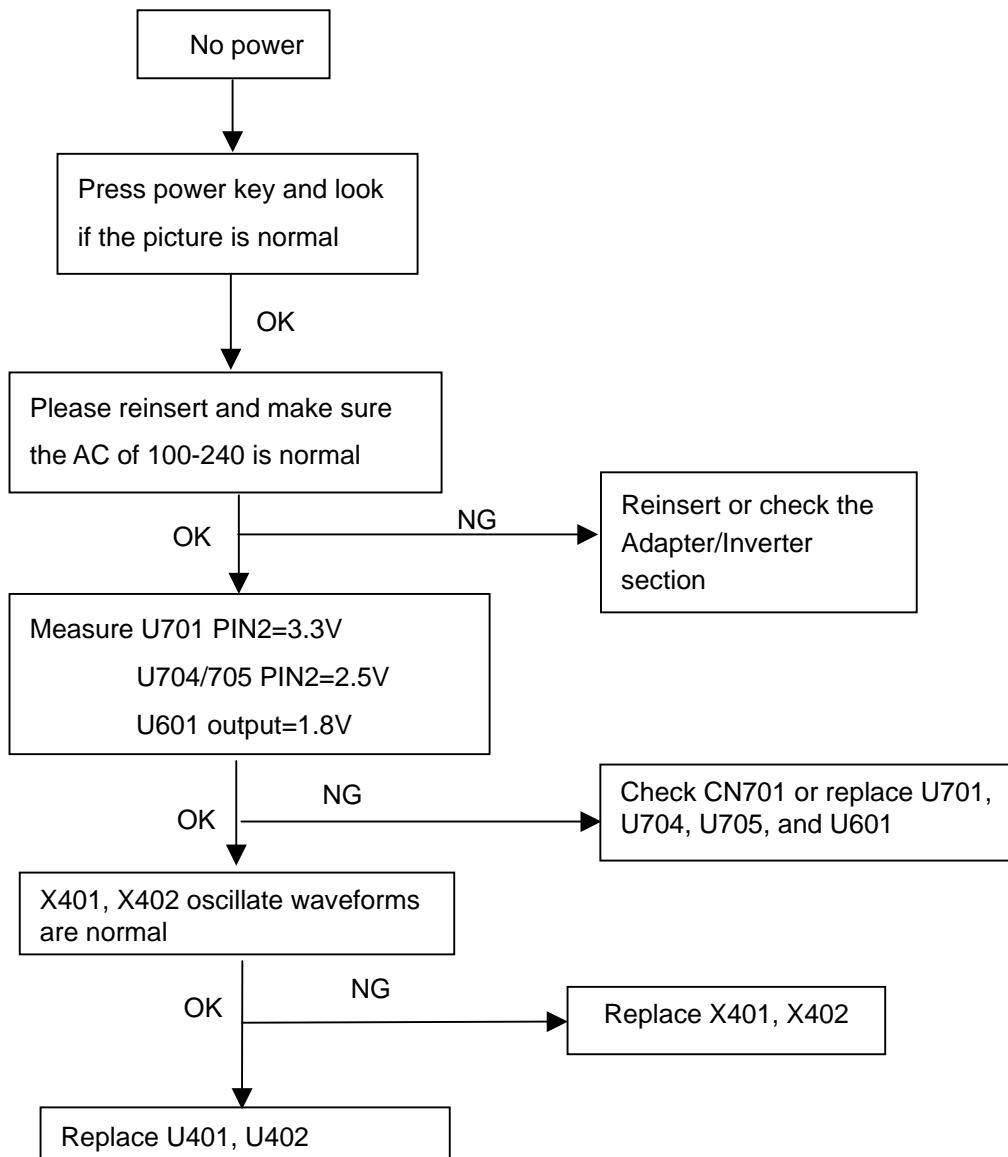
1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

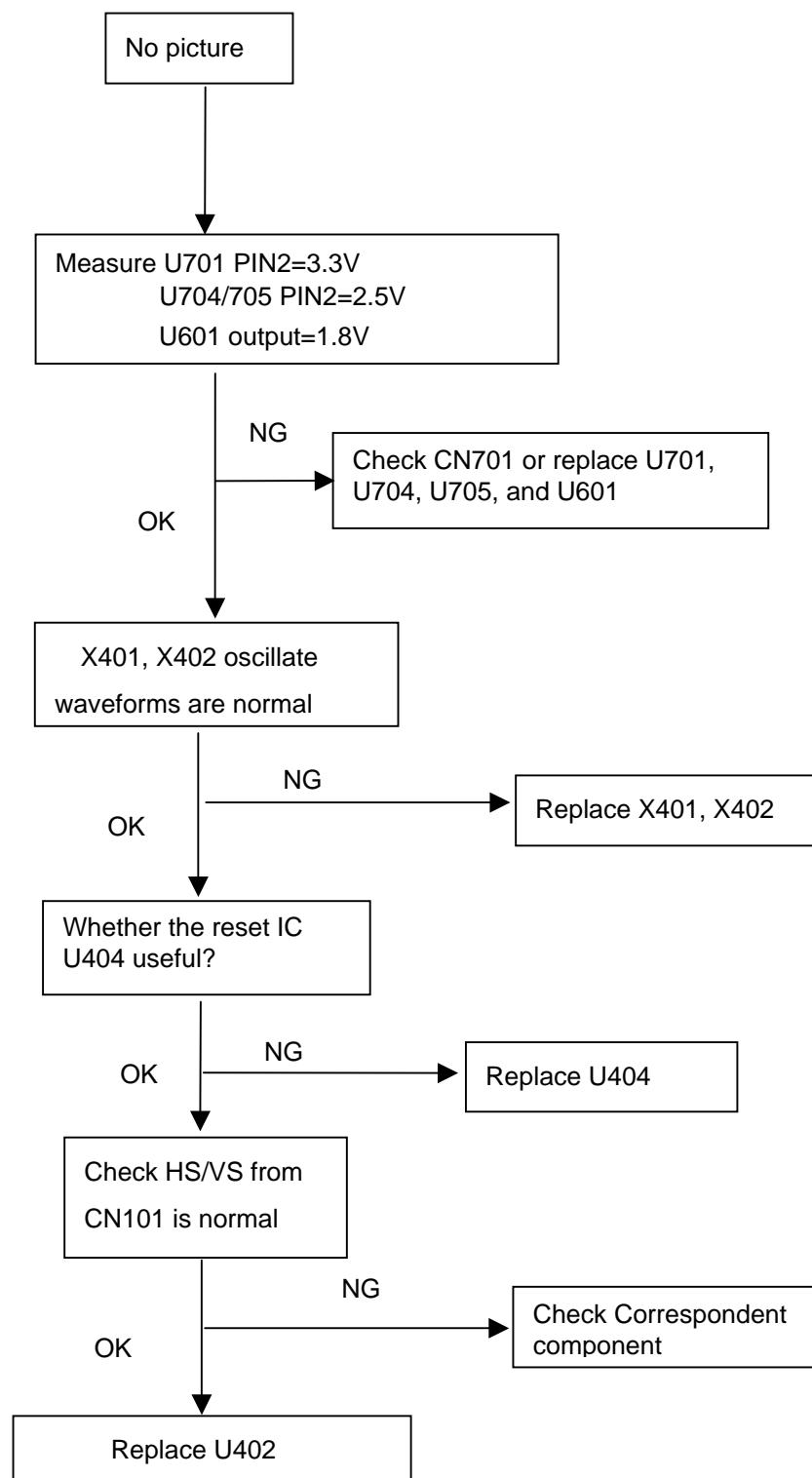
| Problem | Check |
|--|---|
| ① The picture does not appear. (Power indicator does not light up.) | <input type="checkbox"/> The Power Cable is firmly seated in the socket. <input type="checkbox"/> The Power Switch is turned ON. <input type="checkbox"/> The AC socket is live. Please check with another piece of equipment. |
| (Power indicator is green/blue.) | <input type="checkbox"/> If the blank screen saver is in active mode, touch the keyboard or the mouse. <input type="checkbox"/> Increase the Contrast and/or Brightness. <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. |
| (Power indicator is orange.) | <input type="checkbox"/> If the monitor is in power management mode, touch the keyboard or the mouse. <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. |
| ② The screen is not synchronized. | <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. <input type="checkbox"/> The video output level of the computer is within the specification of the monitor. |
| ③ The screen position is not in the center. | <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. |
| ④ The screen is too bright or too dark. | <input type="checkbox"/> The video output level of the computer is within the specification of the monitor. |
| ⑤ The screen is shaking. | <input type="checkbox"/> The power voltage is within the specification of the monitor. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. |

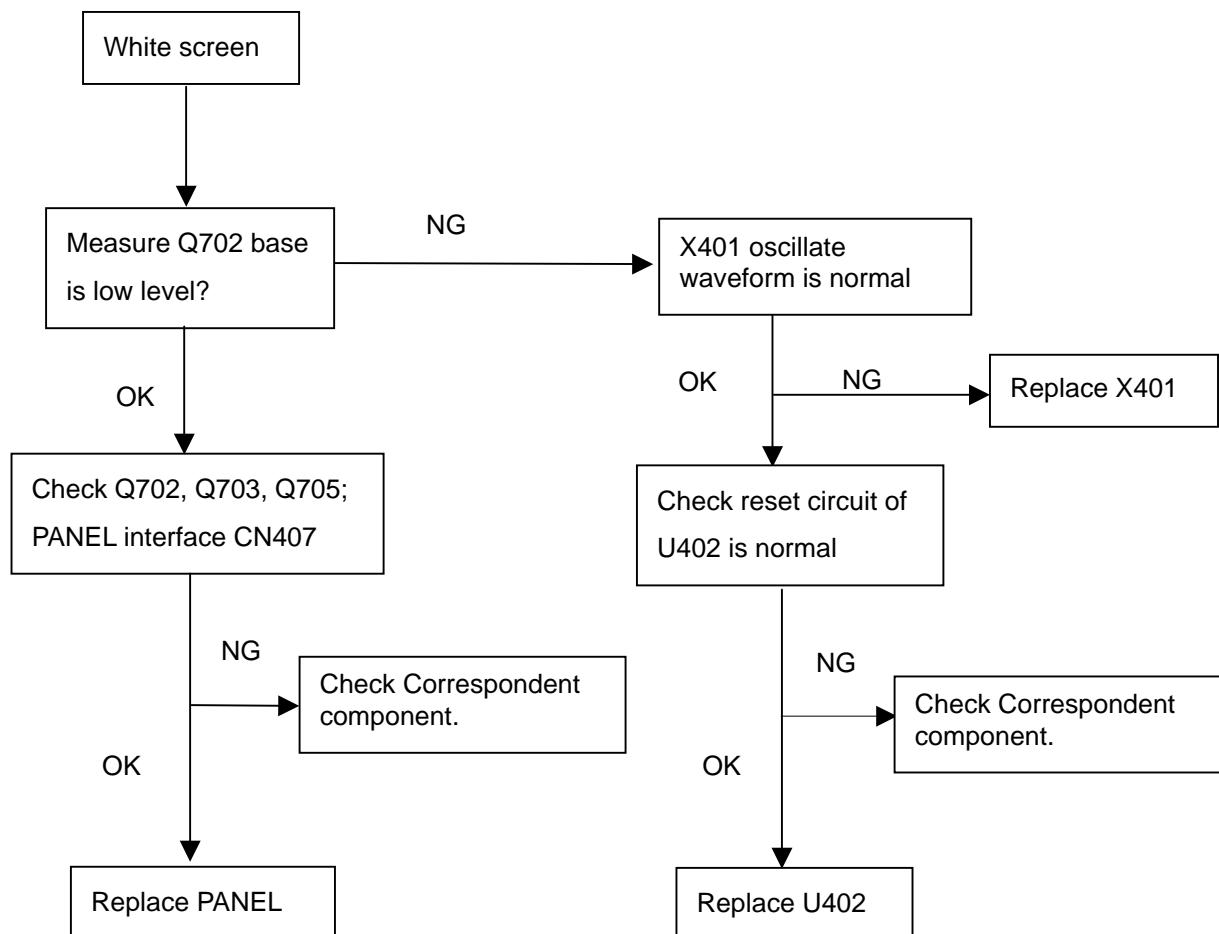
8.2 Trouble Shooting

8.2.1 Main Board

No power

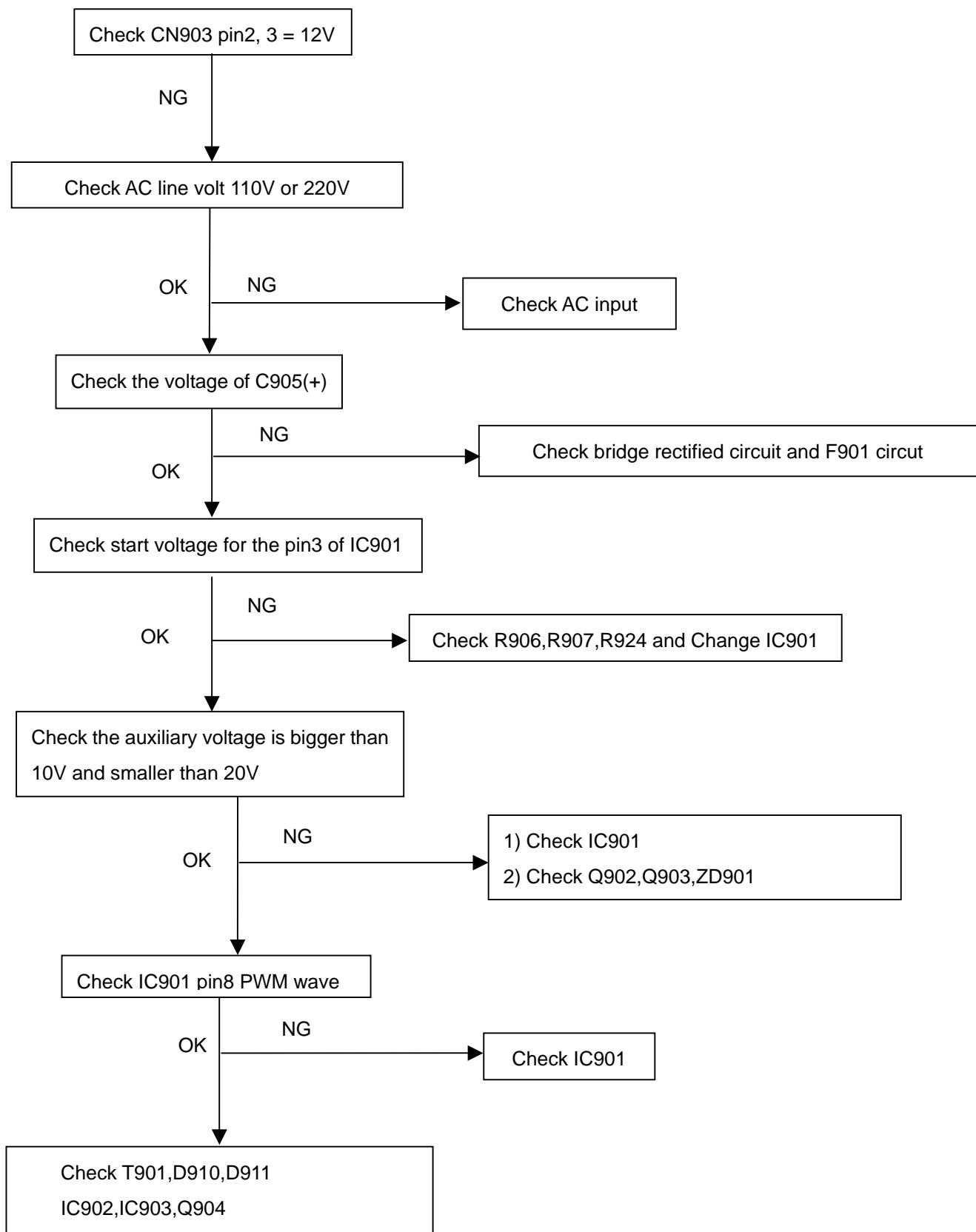


No picture (LED orange)

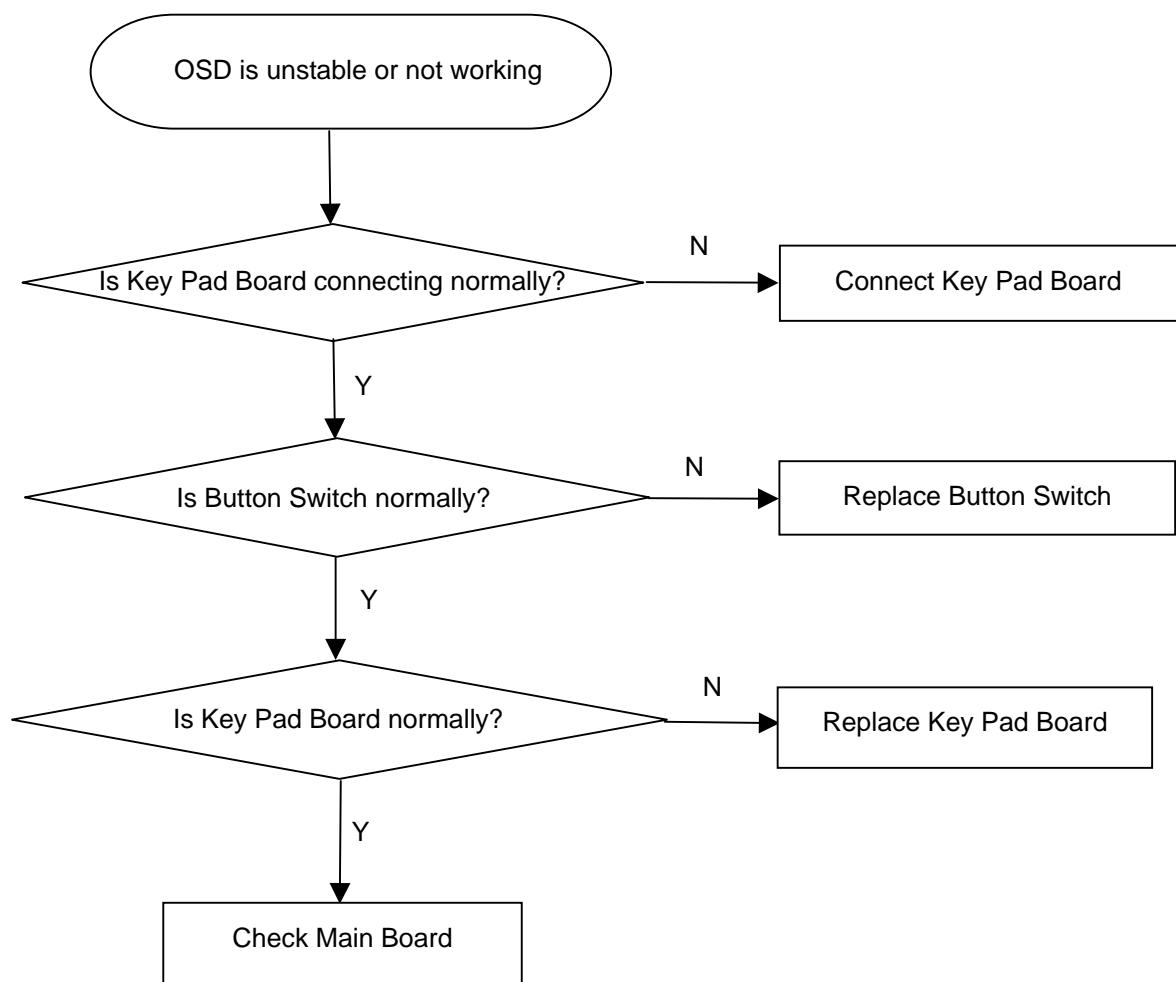
White screen

8.2.2 Power/Inverter Board

No power



8.2.3 Key Board



9. White-Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

A. Reference to chroma 7120 user guide

B. Use “**SC**” key and “**NEXT**” key to modify x, y, Y value and use “**ID**” key to modify the TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (7800 color):

7800 color temp. parameter is $x = 299 \pm 20$ $y = 315 \pm 20$, $Y > 170 \text{ cd/m}^2$.

B. MEM.CHANNEL 4 (6500 color):

6500 color temp. parameter is $x = 313 \pm 20$, $y = 329 \pm 20$, $Y > 170 \text{ cd/m}^2$

3. Into factory mode of PLE511S-B&W2U

Turn on power, press the MENU button, pull out the power cord, and then plug the power cord. Then the factory OSD will be at the left top of the panel.

4. Bias adjustment:

Set the **Contrast**  to 50; Adjust the **Brightness**  to 80.

5. Gain adjustment:

Move cursor to “-F-” and press MENU key

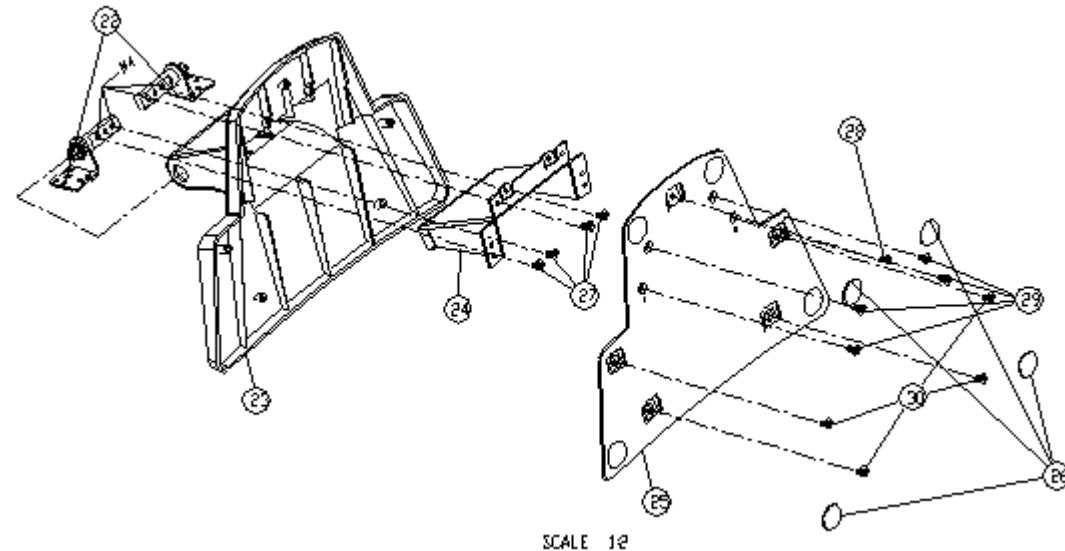
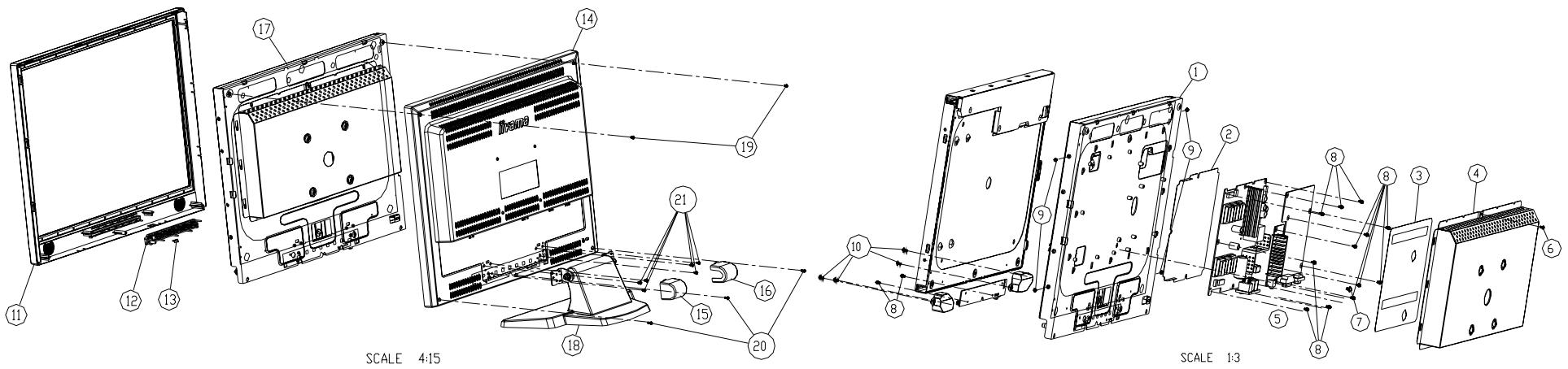
A. Adjust 7800 color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 299 \pm 20$ $y = 315 \pm 30$, $Y > 170 \text{ cd/m}^2$.
4. Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

B. Adjust 6500 color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM.channel to Channel 4 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show $x = 313 \pm 20$, $y = 329 \pm 20$, $Y > 170 \text{ cd/m}^2$
4. Adjust the RED of color3 on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

C. Turn the Power-button off to quit from factory mode.

10. Monitor Exploded View

| Index | Parts name | Parts number | Qty | Index | Parts name | Parts number | Qty |
|-------|-----------------|----------------|-----|-------|------------------|----------------|-----|
| 1 | Main frame | 15GB197-1 | 1 | 6 | Screw(shielding) | M1G-130-5-128 | 1 |
| 2 | Mylar(panel) | 52L6025-JI-857 | 1 | 7 | Screw(grounding) | M1G-1140-6-128 | 1 |
| 3 | Mylar(power) | 52L6025-JI-858 | 1 | 8 | Screw(PCB) | M1G-1730-6-128 | 16 |
| 4 | Shielding | 15GB198-1 | 1 | 9 | Screw(panel) | M1G-2430-5-47 | 4 |
| 5 | AC-lock-bracket | 15GB201-1 | 1 | 10 | Screw(speaker) | M1G-1030-8-128 | 4 |

| Index | Parts name | Parts number | Qty | Index | Parts name | Parts number | Qty |
|-------|---------------|--------------|-----|-------|---------------|---------------|-----|
| 11 | Bezel | 34G1645-1 | 1 | 17 | Chassis Assy. | | 1 |
| 12 | Knob-control | 33G4901-1 | 1 | 18 | Stand Assy. | | 1 |
| 13 | Lens | 33G4902-1 | 1 | 19 | Screw | M1G-130-5-128 | 2 |
| 14 | Rear cover | 34G1646-1 | 1 | 20 | Screw | 01G-130-8-128 | 3 |
| 15 | Hinge cover-R | 33G4903-1 | 1 | 21 | Screw(hinge) | M1G-130-5-125 | 6 |
| 16 | Hinge cover-L | 33G4903-2 | 1 | | | | |

| Index | Parts name | Parts number | Qty | Index | Parts name | Parts number | Qty |
|-------|--------------|--------------|-----|-------|--------------|--------------|-----|
| 22 | Hinge | 37G542 | 1 | 27 | Screw(hinge) | M1G140-8-125 | 4 |
| 23 | Stand | 34G1647-1 | 1 | 28 | Screw | 01G130-8-128 | 1 |
| 24 | Bracket-neck | 15GB199 | 1 | 29 | Screw | M1G140-8-128 | 4 |
| 25 | Bose-plate | 15GB200 | 1 | 30 | Screw | 01G140-8-128 | 4 |
| 26 | Rubber foot | 01G-24-1 | 4 | | | | |

11. BOM List

TA90KSUHBYY3AP

| Location | Part NO. | Description |
|----------|----------------|----------------------------|
| | 015G6312 1 | AC HOLDER |
| | 015G8198 1 | SHIEL DING |
| | 033G4902 1 | LENS |
| | 040G 581695 1A | SERIAL LABEL |
| | 040G 581695 6A | EUROPE LABEL |
| | 044G6002608 7A | PAPER PLATE |
| | 044G9003210 | CORNER PAPER |
| | 045G 76 28 RN | PE BAG FO MANUAL/BASE |
| | 045G 88626 8 | PE BAG FOR MOUITOR |
| | 052G 1185 | MIDDLE TAPE FOR CARTON |
| | 052G 1186 | SMALL TAPE |
| | 089G 173 56 8 | AUDIO CABLE |
| | 089G1748GAA12B | SIGNAL CABLE |
| | 095G8014 14 27 | HARNESS 12P-12P 70MM |
| | 095G8018 30668 | WIRE HARNESS |
| | 0M1G 330 4128 | SCREW M3X4 |
| | 0M1G 330 5 47 | SCREW |
| | 0M1G 330 8125 | SCREW |
| | 0M1G1140 6128 | SCREW 4X6 |
| | 0M1G1730 6128 | SCREW M3x6 |
| | 0M1G3030 5 47 | SCREW |
| | 0Q1G 330 8 47 | SCREW 3X8mm |
| | 0Q1G 330 8128 | SCREW PH K30X8 PT |
| | 705GQAK0M34001 | 20.1" LCD MAIN FRAME ASS'Y |
| | 705GQAK0P34002 | 19" LCD STAND COVER ASS'Y |
| | 750GLSA1U11 11 | SEC 20.1" PANEL |
| | AUPCA90A1P | AUDIO BOARD FOR TA90* |
| | CBPCA90KS3Y4P | CONVERSION BOARD FOR TA90* |
| | KEPCA90KY2P | KEY BOARD FOR TA90* |
| | PWPC2066SEY1P | POWER BOARD |
| | Q07G 7 T 25 | COMPOUND PALLET |
| | Q07G 7 T 26 | COMPOUND PALLET |
| | Q07G 7 T 27 | COMPOUND PALLET |
| | Q07G 7 T 28 | COMPOUND PALLET |
| | Q33G4901 DZ 1L | KNOB-CONTROL |
| | Q33G4903 DZ 1L | HINGE COVER R |

| | | |
|-------|-----------------|--------------------------------|
| | Q33G4903 DZ 2L | HINGE COVER L |
| | Q34G1645 DZA1B | BEZEL |
| | Q34G1646 DZ 1B | REAR COVER |
| | Q40G 20N695 3A | Rating label |
| | Q41G2002695 2A | Manual |
| | Q44G6002101103 | Paper board |
| | Q44GA003 1 | EPS(L) |
| | Q44GA003 2 | EPS(R) |
| | Q44GA003 3EPE | EPE |
| | Q44GA003695 1A | CARTON |
| | Q45G 88609 34 | EPE COVER |
| | Q52G6025 11857 | MYLAR |
| | Q52G6025 11858 | MYLAR |
| | 012G6206 1 | PORON |
| | 015G8197 1 | MAIN FRAME |
| E078L | 078G 311 3 LB | SPEAKER |
| E078R | 078G 311 3 RB | SPEAKER |
| E095A | 095G8014 9532 X | WIRE HARNESS |
| | 095G8014 16 47 | WIRE HARNESS |
| | 0M1G1030 8128 | WCREW M3X8 |
| | Q52G6025 11944 | MYLAR |
| | 012G 394 3 | RUBBER FOOT |
| | 015G8199 1 | BRACKET-NECK |
| | 015G8200 1 | BASE-PLATE |
| | 037G 542 1 | HINGE |
| | 037G 542 2 | HINGE |
| | 0M1G 140 8125 | SCREW |
| | 0M1G 140 8128 | SCREW M4X8 |
| | 0Q1G 140 8120 | SCREW T4X8 |
| | 0Q1G 330 6120 | SCREW |
| | Q34G1647 DZ 1B | STAND |
| CN107 | 033G3802 9 | WAFER 9P RIGHT ANELE PITCH |
| CN602 | 033G8027 14 | WAFER 14P 2.0MM DIP DUAL ROW |
| C620 | 067G215B471 3H | 470UF 16V LTR471M1CF11VR 8*11m |
| C601 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C605 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C617 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C625 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C636 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |

| | | |
|-------|----------------|------------------------------|
| C643 | 067G305V221 3 | 220UF/16V |
| C638 | 067G305V221 3 | 220UF/16V |
| CN601 | 088G 30214K | PHONE JACK 5PIN |
| | AUPCA90A1SMTP | AUDIO BOARD FOR TA90* SMT |
| U602 | Q90G6119 4 | HEAT SINK |
| CN701 | 033G8027 14 | WAFER 14P 2.0MM DIP DUAL ROW |
| CN402 | 033G8027 14 | WAFER 14P 2.0MM DIP DUAL ROW |
| CN401 | 033G8027 16 | WAFER 16PIN 2.0mm DIP |
| CN407 | 033G8027 30 H | WAFER 30P 2.0MM RIGHT ANGLE |
| | 040T 457624 1B | CPU LABEL |
| | 040T 45762412B | CBPC LABEL |
| C768 | 067G215V101 4N | KY25VB100M-CC3(6.3*11) |
| C610 | 067G215V101 4R | LOW E.S.R 100UF +/-20% 25V |
| C704 | 067G215V101 4R | LOW E.S.R 100UF +/-20% 25V |
| C609 | 067G215V221 4R | LOW E.S.R 220UF +/-20% 25V |
| C770 | 067G215V470 4N | KY25VB47-M-CC3.0 5*11MM |
| C771 | 067G215V470 4N | KY25VB47-M-CC3.0 5*11MM |
| C772 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C769 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C761 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C753 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C718 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C715 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C712 | 067G215V470 4R | LOW E.S.R 47UF +/-20% 25V |
| C745 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C743 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C737 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C735 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C732 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C730 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C727 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C724 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C721 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C708 | 067G215Y100 7R | LOW E.S.R 10UF +/-20% 50V |
| C424 | 067G215Y2207RV | RUBYCON 50V 22UF |
| C317 | 067G215Y2207RV | RUBYCON 50V 22UF |
| C301 | 067G215Y2207RV | RUBYCON 50V 22UF |
| CN101 | 088G 35315F H | D-SUB 15PIN |
| CN102 | 088G 35424F H | DVI CONNECTOR 24PIN |

20" LCD Color Monitor

IIYAMA PLE511S-B&W2U

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| U401 | 090G 372 2 | HEAT SINK |
| X402 | 093G 22 53 | CRYSTAL 14.318MHzHC-49US |
| X401 | 093G 22 58 H | 24.576MHZ/20PF/49US |
| | AICA90KS3Y4P | MAIN BOARD FOR TA90* |
| CN104 | 033G3802 2H | WAFER 2P RIGHT ANGLE |
| CN103 | 033G3802 2H | WAFER 2P RIGHT ANGLE |
| CN102 | 033G3802 9H | WAFER 9P RIGHT ANGLE PITCH |
| CN101 | 033G8027 12 H | PIN HEADER 2*6 R/A |
| SW103 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW102 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW101 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW107 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW105 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW106 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| SW104 | 077G 600 1GCJ | TACT SWITCH TSPB-2 -NP |
| D101 | 081G 12 2 GP | GP36032ME/50-ZO |
| CN105 | 088G 30211K | PHONE JACK 5PIN |
| | AIKA90KY1P | KEY BOARD FOR AI |
| CN203 | 033G8020 5D U | CONNECTOR |
| CN201 | 033G8020 5D U | CONNECTOR |
| CN202 | 033G8021 2D U | 3.5mm WAFER |
| CN204 | 033G8021 2D U | 3.5mm WAFER |
| CN902 | 033G8029 3A | 3PIN (2PIN NC) |
| | 040G 45762420A | LABEL 25x6mm |
| IC902 | 056G 139 3A | PC123Y22FZOF |
| VAR901 | 061G 46 6 GP | TNR 10V471K |
| NR901 | 061G 5810T | 8 OHM 4A NTCR BY THINKING |
| R914 | 061G152M278 64 | 0.27 OHM 5% 2W |
| C205 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C212 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C221 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C233 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C242 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C248 | 065G 3J1206EM | 12PF 5% 3KV MURATA |
| C901 | 065G306K4712BM GP | Y1 CAP 470PF 250VAC MURATA 10% |
| C902 | 065G306K4712BM GP | Y1 CAP 470PF 250VAC MURATA 10% |
| C923 | 065G306M1022BM | Y1.CAP.001UF 250VAC MURATA |
| C921 | 065G306M4722BP | 4700PF +-20% 400VAC |
| C940 | 067G215L102 4N GP | KY25VB1000M-L 12.5*20 |

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| C920 | 067G215L102 4N GP | KY25VB1000M-L 12.5*20 |
| C101 | 067G215L102 4N GP | KY25VB1000M-L 12.5*20 |
| C201 | 067G215L471 4N GP | KY25VB470M-L10*16 |
| C232 | 067G215L471 4N GP | KY25VB470M-L10*16 |
| C916 | 067G215L471 4N GP | KY25VB470M-L10*16 |
| C905 | 067G215S10115N GP | EC CAP 450V/100 |
| FB901 | 071G 55 29 | FERRITE BEAD |
| L903 | 073G 253 91 T | CHOKE |
| L101 | 073G 253163 LA | CHOKE |
| L904 | 073L 174 40LSG | LINE FILTER |
| L902 | 073L 174 50 LH | LINE FILTER |
| T901 | 080GL20T 10 T | X'FMR |
| PT206 | 080TL20T 3 DN | X'FMR |
| PT205 | 080TL20T 3 DN | X'FMR |
| PT204 | 080TL20T 3 DN | X'FMR |
| PT203 | 080TL20T 3 DN | X'FMR |
| PT202 | 080TL20T 3 DN | X'FMR |
| PT201 | 080TL20T 3 DN | X'FMR |
| HS4 | 090G6212 1 | HEAT SINK |
| BD901 | 093G 50460 16 | U4KB80R |
| | 095G 900 72 | WIRE HARNESS |
| CN903 | 095G8013 15 1 | HOUSING B2513H02 CR SCN- |
| | 705G 20 57 04 | Q901 ASS'Y |
| | 705G 20 61 02 | R903 ASS'Y |
| | 705G 20 87 03 | CN901 ASS'Y |
| | 705G 20 93 05 | D910/D911 ASS'Y |
| | PW2066SEY1SMTP | POWER BOARD FOR SMT |
| U601 | 056G 616 6 | TPA3003D2PFBRG4 TQFP-48 |
| U602 | 056G 616 19 | TPA6112A2 MSOP-10 |
| R602 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R628 | 061L0603100 2F | 10K 1% 1/10W |
| R619 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R614 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R630 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R632 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R631 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R623 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R622 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R616 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |

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| R615 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R609 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R601 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R633 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R624 | 061L0603110 2F | CHIP 11KOHM 1/16W 1% |
| R625 | 061L0603110 2F | CHIP 11KOHM 1/16W 1% |
| R610 | 061L0603122 | 1.2K OHM 1/10W 5% |
| R612 | 061L0603122 | 1.2K OHM 1/10W 5% |
| R617 | 061L0603122 | 1.2K OHM 1/10W 5% |
| R620 | 061L0603122 | 1.2K OHM 1/10W 5% |
| R627 | 061L0603123 | CHIP 12K OHM 1/16W |
| R626 | 061L0603123 | CHIP 12K OHM 1/16W |
| R603 | 061L0603124 | CHIP 120KOHM 1/10W |
| R607 | 061L0603124 | CHIP 120KOHM 1/10W |
| R608 | 061L0603180 1F | CHIP 1.8K OHM 1/10W 1% |
| R611 | 061L0603203 | CHIPR 20K OHM+-5% 1/10W |
| R613 | 061L0603203 | CHIPR 20K OHM+-5% 1/10W |
| R618 | 061L0603203 | CHIPR 20K OHM+-5% 1/10W |
| R621 | 061L0603203 | CHIPR 20K OHM+-5% 1/10W |
| R604 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| C602 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C603 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C604 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C612 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C615 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C630 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C631 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C632 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C607 | 065G0603103 32 | 0.01UF +-10% 50V X7R |
| C608 | 065G0603103 32 | 0.01UF +-10% 50V X7R |
| C626 | 065G0603103 32 | 0.01UF +-10% 50V X7R |
| C629 | 065G0603103 32 | 0.01UF +-10% 50V X7R |
| C628 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C627 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C621 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C618 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C609 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C606 | 065G0603104 12 | CER2 0603 X7R 16V 100N PM10 R |
| C610 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |

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| C611 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C613 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C614 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C616 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C619 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C623 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C634 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C635 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C637 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C640 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C642 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C644 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C622 | 065G0603221 32 | CHIP 220PF 50V NPO |
| C633 | 065G0603472 32 | CHIP 4700PF 50V X7R |
| C639 | 065G0603472 32 | CHIP 4700PF 50V X7R |
| C641 | 065G0603472 32 | CHIP 4700PF 50V X7R |
| C645 | 065G0603472 32 | CHIP 4700PF 50V X7R |
| FB601 | 071G 57G601 | TI3216JIG |
| FB602 | 071G 57G601 | TI3216JIG |
| FB604 | 071G 57G601 | TI3216JIG |
| FB605 | 071G 57G601 | TI3216JIG |
| FB606 | 071G 57G601 | TI3216JIG |
| FB607 | 071G 57G601 | TI3216JIG |
| FB608 | 071G 57G601 | TI3216JIG |
| FB609 | 071G 57G601 | TI3216JIG |
| FB610 | 071G 57G601 | TI3216JIG |
| FB612 | 071G 57G601 | TI3216JIG |
| | 715G1604 1 | PCB |
| U601 | 056G 133 32 NS | LM3485 MSOP-8 NS |
| U401 | 056G 562106 | MST9251A-LF-165 PQFP-208 |
| U702 | 056G 563 7 | AIC1084-33PM |
| U701 | 056G 563 7 | AIC1084-33PM |
| U705 | 056G 563 45 | AP1084K25GA TO-263 ATC |
| U704 | 056G 585 7 | RT9164-25PL |
| U303 | 056G 615 9 | EM6A9320BI-5MG FBGA-144 |
| U404 | 056G 643 5A | MAX810 STRG |
| U402 | 056G1125175SY1 | MTV416GMV |
| U101 | 056G1133 34 | M24C02-WMN6TP |
| U102 | 056G1133 34 | M24C02-WMN6TP |

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| U403 | 056G1133 56 | M24C16-WMN6TP |
| Q404 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q701 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q702 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q704 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q705 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q402 | 057G 417 6 | PMBS3906/PHILIPS-SMT(06) |
| Q403 | 057G 417 6 | PMBS3906/PHILIPS-SMT(06) |
| Q101 | 057G 759 2 | RK7002 |
| Q103 | 057G 759 2 | RK7002 |
| Q104 | 057G 759 2 | RK7002 |
| Q602 | 057G 763 1 | A03401 SOT23 BY AOS(A1) |
| Q703 | 057G 763 3 | AO4411 SO-8 |
| RN401 | 061L 125103 8 | CHIP AR 8P4R 10KOHM +-5% 1/16W |
| RN301 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN302 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN303 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN304 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN305 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN306 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN307 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| RN308 | 061L 125330 8 | CHIP AR 894R 33OHM +-5% 1/16W |
| R459 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R458 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R441 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R304 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R303 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R302 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R301 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R151 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| L103 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| L102 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| L101 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R143 | 061L0603100 | CHIP 10 OHM 1/10W |
| R142 | 061L0603100 | CHIP 10 OHM 1/10W |
| R141 | 061L0603100 | CHIP 10 OHM 1/10W |
| R140 | 061L0603100 | CHIP 10 OHM 1/10W |
| R139 | 061L0603100 | CHIP 10 OHM 1/10W |
| R138 | 061L0603100 | CHIP 10 OHM 1/10W |

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| R137 | 061L0603100 | CHIP 10 OHM 1/10W |
| R144 | 061L0603100 | CHIP 10 OHM 1/10W |
| R484 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R483 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R460 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R434 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R422 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R419 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R415 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R411 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R410 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R407 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R406 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R182 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R165 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R164 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R145 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R125 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R124 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R121 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R120 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R111 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R115 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R147 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R148 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R418 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R421 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R429 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R430 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R432 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R433 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R436 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R437 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R703 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R704 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R444 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R443 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R435 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R414 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |

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| R310 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R309 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R181 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R170 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R450 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R451 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R452 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R453 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R454 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R455 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R456 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R457 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R463 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R472 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R473 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R474 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R475 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R476 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R477 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R478 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R479 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R480 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R701 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R702 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R707 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R169 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R122 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R123 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R126 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R127 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R136 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R149 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R150 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R168 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R146 | 061L0603104 | RST SM 0603 RC0603 100K PM5 R |
| R401 | 061L0603104 | RST SM 0603 RC0603 100K PM5 R |
| R710 | 061L0603104 | RST SM 0603 RC0603 100K PM5 R |
| R714 | 061L0603104 | RST SM 0603 RC0603 100K PM5 R |
| R311 | 061L0603150 0F | CHIPR150OHM 1/10W 1% |

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| R607 | 061L0603150 2F | CHIPR 15KOHM +-1% 1/10W |
| R114 | 061L0603151 | CHIPR 150 OHM +-5% 1/16W |
| R605 | 061L0603220 | CHIPR 22 OHM+-5% 1/16W |
| R442 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R448 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R449 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R462 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R428 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R427 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R426 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R425 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R424 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R423 | 061L0603221 | CHIPR 220 OHM+-5% 1/16W |
| R112 | 061L0603222 | CHIPR 2.2K OHM+-5% 1/16W |
| R113 | 061L0603222 | CHIPR 2.2K OHM+-5% 1/16W |
| R608 | 061L0603316 2F | CHIP 31.6K OHM 1/10W 1% |
| R103 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R305 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R306 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R307 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R308 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R438 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R439 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R102 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R101 | 061L0603330 | CHIPR 33 OHM +-5% 1/10W |
| R440 | 061L0603391 | CHIP 390 OHM 1/10W |
| R104 | 061L0603471 | CHIPR 470 OHM+-5% 1/16W |
| R405 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R408 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R409 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R417 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R420 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R431 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R705 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R706 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R708 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R402 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R403 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |
| R404 | 061L0603472 | CHIPR 4.7K OHM +-5% 1/16W |

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| R606 | 061L0603683 | CHIP 68K OHM 1/16W |
| R105 | 061L0603750 9F | 75OHM 1% 1/10W |
| R106 | 061L0603750 9F | 75OHM 1% 1/10W |
| R107 | 061L0603750 9F | 75OHM 1% 1/10W |
| R108 | 061L0603750 9F | 75OHM 1% 1/10W |
| R109 | 061L0603750 9F | 75OHM 1% 1/10W |
| R110 | 061L0603750 9F | 75OHM 1% 1/10W |
| R445 | 061L0805102 | CHIPR 1K OHM +-5% 1/10W |
| R446 | 061L0805102 | CHIPR 1K OHM +-5% 1/10W |
| F601 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| R601 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| C101 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C102 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C103 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C104 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C105 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C106 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C107 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C423 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C611 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C612 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C613 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C614 | 065G0603102 32 | 1000PF +-10% 50V X7R |
| C601 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C703 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C705 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C706 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C707 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C709 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C713 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C714 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C716 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C717 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C719 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C722 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C723 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C725 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C439 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C420 | 065G0603104 32 | CHIP 0.1UF 50V X7R |

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| C421 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C422 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C425 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C427 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C428 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C429 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C432 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C433 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C434 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C435 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C436 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C437 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C438 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C752 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C754 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C755 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C756 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C757 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C758 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C759 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C760 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C762 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C763 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C764 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C765 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C766 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C767 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C751 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C726 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C728 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C729 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C731 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C733 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C734 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C736 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C738 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C744 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C746 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C747 | 065G0603104 32 | CHIP 0.1UF 50V X7R |

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| C748 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C749 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C750 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C406 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C308 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C307 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C306 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C305 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C304 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C303 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C302 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C126 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C125 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C124 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C123 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C122 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C121 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C120 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C118 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C117 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C116 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C115 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C309 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C405 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C404 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C403 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C325 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C324 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C323 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C322 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C321 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C320 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C310 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C311 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C312 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C313 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C314 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C315 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C316 | 065G0603104 32 | CHIP 0.1UF 50V X7R |

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| C318 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C319 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C401 | 065G0603220 31 | CER1 0603 NP0 50V 22P PM5 R |
| C402 | 065G0603220 31 | CER1 0603 NP0 50V 22P PM5 R |
| C418 | 065G0603220 31 | CER1 0603 NP0 50V 22P PM5 R |
| C419 | 065G0603220 31 | CER1 0603 NP0 50V 22P PM5 R |
| C111 | 065G0603221 31 | CER1 0603 NP0 50V 220P PM5 R |
| C112 | 065G0603470 31 | CHIP 47PF 50V NPO |
| C710 | 065G0603683 32 | CHIP 0.068UF 50L X7R |
| C113 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| C119 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| C140 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| C414 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| C430 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| L403 | 071G 56K121 M | CHIP BEAD |
| L402 | 071G 56K121 M | CHIP BEAD |
| L404 | 071G 56K121 M | CHIP BEAD |
| L405 | 071G 56K121 M | CHIP BEAD |
| L702 | 071G 56K121 M | CHIP BEAD |
| L704 | 071G 56K121 M | CHIP BEAD |
| L705 | 071G 56K121 M | CHIP BEAD |
| L706 | 071G 56K121 M | CHIP BEAD |
| L707 | 071G 56K121 M | CHIP BEAD |
| L708 | 071G 56K121 M | CHIP BEAD |
| L709 | 071G 56K121 M | CHIP BEAD |
| L710 | 071G 56K121 M | CHIP BEAD |
| L711 | 071G 56K121 M | CHIP BEAD |
| L712 | 071G 56K121 M | CHIP BEAD |
| L713 | 071G 56K121 M | CHIP BEAD |
| L714 | 071G 56K121 M | CHIP BEAD |
| L715 | 071G 56K121 M | CHIP BEAD |
| L716 | 071G 56K121 M | CHIP BEAD |
| L720 | 071G 56K121 M | CHIP BEAD |
| L721 | 071G 56K121 M | CHIP BEAD |
| L602 | 073G M5822020T | 22UH +20% |
| D104 | 093G 64 42 P | BAV70 SOT-23 |
| D105 | 093G 64 42 P | BAV70 SOT-23 |
| D101 | 093G 6433P | BAV99 |
| D102 | 093G 6433P | BAV99 |

20" LCD Color Monitor

IIYAMA PLE511S-B&W2U

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| D103 | 093G 6433P | BAV99 |
| D106 | 093G 6433P | BAV99 |
| D107 | 093G 6433P | BAV99 |
| D108 | 093G 6433P | BAV99 |
| D109 | 093G 6433P | BAV99 |
| D110 | 093G 6433P | BAV99 |
| D111 | 093G 6433P | BAV99 |
| D112 | 093G 6433P | BAV99 |
| D113 | 093G 6433P | BAV99 |
| D117 | 093G 6433P | BAV99 |
| D118 | 093G 6433P | BAV99 |
| D119 | 093G 6433P | BAV99 |
| ZD103 | 093G 39S 34 T | UDZS5.6B |
| ZD104 | 093G 39S 34 T | UDZS5.6B |
| ZD105 | 093G 39S 34 T | UDZS5.6B |
| ZD106 | 093G 39S 34 T | UDZS5.6B |
| ZD107 | 093G 39S 34 T | UDZS5.6B |
| ZD108 | 093G 39S 34 T | UDZS5.6B |
| ZD109 | 093G 39S 34 T | UDZS5.6B |
| ZD110 | 093G 39S 34 T | UDZS5.6B |
| ZD111 | 093G 39S 34 T | UDZS5.6B |
| ZD112 | 093G 39S 34 T | UDZS5.6B |
| ZD113 | 093G 39S 34 T | UDZS5.6B |
| ZD117 | 093G 39S 34 T | UDZS5.6B |
| ZD401 | 093G 39S 34 T | UDZS5.6B |
| ZD402 | 093G 39S 34 T | UDZS5.6B |
| ZD403 | 093G 39S 34 T | UDZS5.6B |
| ZD404 | 093G 39S 34 T | UDZS5.6B |
| ZD405 | 093G 39S 34 T | UDZS5.6B |
| ZD406 | 093G 39S 34 T | UDZS5.6B |
| ZD407 | 093G 39S 34 T | UDZS5.6B |
| ZD408 | 093G 39S 34 T | UDZS5.6B |
| ZD409 | 093G 39S 34 T | UDZS5.6B |
| ZD410 | 093G 39S 34 T | UDZS5.6B |
| ZD102 | 093G 39S 34 T | UDZS5.6B |
| ZD101 | 093G 39S 34 T | UDZS5.6B |
| D602 | 093G5004 2 | DIODE SSM54 5A 40V |
| | 715G1603 1 | MAIN BOARD PCB |
| | 715G1608 2 | KEY BOARD PCB |

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| Q901 | 057G 667 21 | STP10NK70ZFP |
| | 090G6256 1 | HEATSINK |
| | 0M1G1730 8128 | SCREW M3x8 |
| R903 | 061G152M10458F | 100K OHM 5% 2W |
| | 096G 29 6 | SHRINK TUBE UL/CSA |
| CN901 | 077G 306 24 RF | AC SOCKET |
| | 095G 900612 | HARNESS |
| | 095G8021 3 12 | HARNESS |
| | 096G 29 6 | SHRINK TUBE UL/CSA |
| | 090G6257 1 | HEAT SINK |
| D910 | 093G 60247 | FME-220A |
| D911 | 093G 60247 | FME-220A |
| | 0M1G1730 8128 | SCREW M3x8 |
| IC101 | 056G 379 37 | FP5001DR |
| IC901 | 056G 379 52 | LD7552BS |
| IC201 | 056G 608 6 | 02 960G SOP20 |
| Q102 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q205 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q902 | 057G 417 4 | PMBS3904/PHILIPS-SMT(04) |
| Q103 | 057G 417 6 | PMBS3906/PHILIPS-SMT(06) |
| Q903 | 057G 417 6 | PMBS3906/PHILIPS-SMT(06) |
| Q208 | 057G 417 6 | PMBS3906/PHILIPS-SMT(06) |
| Q212 | 057G 600 61 | AM4502C-TI-PF S0-8 |
| Q209 | 057G 600 61 | AM4502C-TI-PF S0-8 |
| Q201 | 057G 600 61 | AM4502C-TI-PF S0-8 |
| Q207 | 057G 600 61 | AM4502C-TI-PF S0-8 |
| Q213 | 057G 759 2 | RK7002 |
| Q214 | 057G 759 2 | RK7002 |
| Q215 | 057G 759 2 | RK7002 |
| Q211 | 057G 759 2 | RK7002 |
| Q210 | 057G 759 2 | RK7002 |
| Q204 | 057G 759 2 | RK7002 |
| Q202 | 057G 759 2 | RK7002 |
| Q216 | 057G 759 2 | RK7002 |
| Q217 | 057G 759 2 | RK7002 |
| Q203 | 057G 760 4 | DTA144WKA BY ROHM SMT |
| Q206 | 057G 760 5 | DTC144WKA BY ROHM SMT |
| Q904 | 057G 760 5 | DTC144WKA BY ROHM SMT |
| Q101 | 057G 763 7 | A0D405L |

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| R247 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R245 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R241 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R238 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R235 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R230 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R215 | 061L0603000 | RST SM 0603 JUMP MAX 0R05 R |
| R113 | 061L0603101 | CHIPR 100 OHM +-5% 1/16W |
| R114 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R116 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R205 | 061L0603102 | CHIPR 1K OHM +-5% 1/16W |
| R207 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R209 | 061L0603103 | CHIPR 10K OHM +-5% 1/16W |
| R226 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R232 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R251 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R248 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R246 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R242 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R240 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R237 | 061L0603105 | RST SM 0603 RC0603 1M PM5 R |
| R231 | 061L0603154 | CHIP 150K OHM 1/10W |
| R225 | 061L0603200 1F | CHIP 2KOHM 1% 1/10W |
| R213 | 061L0603204 | CHIPR 200KOHM +-5% 1/10W |
| R115 | 061L0603220 | CHIPR 22 OHM+-5% 1/16W |
| R214 | 061L0603220 | CHIPR 22 OHM+-5% 1/16W |
| R220 | 061L0603220 | CHIPR 22 OHM+-5% 1/16W |
| R236 | 061L0603224 | CHIP 220K OHM 1/10W |
| R201 | 061L0603242 | CHIP 2.4K OHM +-5% 1/10W |
| R239 | 061L0603244 | CHIP 240KOHM 1/16W |
| R109 | 061L0603300 1F | CHIP 3KOHM 1% 1/10W |
| R106 | 061L0603333 | CHIP 33K OHM 1/16W |
| R223 | 061L0603333 | CHIP 33K OHM 1/16W |
| R110 | 061L0603360 1F | CHIP 3.6KOHM 1% 1/10W |
| R108 | 061L0603473 | RST SM 0603 RC0603 47K PM5 R |
| R227 | 061L0603510 2F | 51K 1% |
| R224 | 061L0603513 | CHIP 51K OHM |
| R217 | 061L0603680 2F | CHIP 68KOHM 1% 1/10W |
| R222 | 061L0603823 | CHIPR 82KOHM +-5% 1/16W |

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| R216 | 061L0603912 | CHIPR 9.1KOHM +-5% 1/10W |
| C103 | 061L0805000 | CHIPR 0OHM +-5% 1/10W |
| R911 | 061L0805100 3F | CHIP 100KOHM +-1% 1/8W |
| R917 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R243 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R229 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R228 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R218 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R208 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R206 | 061L0805101 | CHIPR 100 OHM +-5% 1/10W |
| R922 | 061L0805102 | CHIPR 1K OHM +-5% 1/10W |
| R925 | 061L0805102 | CHIPR 1K OHM +-5% 1/10W |
| R203 | 061L0805103 | CHIPR 10K OHM +-5% 1/10W |
| R204 | 061L0805103 | CHIPR 10K OHM +-5% 1/10W |
| R250 | 061L0805104 | CHIPR 100K OHM+-5% 1/10W |
| R111 | 061L0805153 | CHIPR 15K OHM+-5% 1/8W |
| R912 | 061L0805203 | CHIPR 20KOHM +-5% 1/8W |
| R913 | 061L0805203 | CHIPR 20KOHM +-5% 1/8W |
| R928 | 061L0805203 | CHIPR 20KOHM +-5% 1/8W |
| R923 | 061L0805222 | CHIP 2.2KOHM 5% 0805 1/8W |
| R927 | 061L0805243 1F | CHIP 2.43K OHM 1/8W 1% |
| R112 | 061L0805272 | CHIP 2.7K OHM 1/8W |
| R916 | 061L0805472 | CHIRP 4.7K OHM +-5% 1/10W |
| R918 | 061L0805472 | CHIRP 4.7K OHM +-5% 1/10W |
| R244 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R234 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R233 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R219 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R212 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R210 | 061L0805510 0F | CHIP 510 OHM 1% 1/8W |
| R926 | 061L0805931 1F | CHIP 9.31K OHM 1/8W 1% |
| F903 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J203 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J241 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J242 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J239 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J238 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J237 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J236 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |

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| J235 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J229 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| F902 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J228 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J227 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J224 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J223 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| J222 | 061L1206000 | CHIPR 0 OHM +-5% 1/8W |
| R909 | 061L1206100 | CHIPR 10 OHM+-5% 1/8W |
| R211 | 061L1206100 | CHIPR 10 OHM+-5% 1/8W |
| R919 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R920 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R930 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R931 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R932 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R933 | 061L1206101 | CHIP 100 OHM 5% 1/8W |
| R904 | 061L1206105 | CHIP 1MOHM 5% 1/4W |
| R905 | 061L1206105 | CHIP 1MOHM 5% 1/4W |
| R910 | 061L1206221 | CHIP 220 OHM 1/4W |
| R921 | 061L1206301 | CHIP 300OHM 1/4W |
| R908 | 061L1206339 | CHIP 3.3OHM 1/4W |
| R202 | 061L1206471 | CHIPR 470 OHM+-5% 1/8W |
| D211 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| D212 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| D213 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| D224 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| D225 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| D226 | 061L1206472 | CHIP 4.7KOHM 5% 1/4W |
| R924 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| R907 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| R906 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| R902 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| R901 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| R900 | 061L1206684 | CHIPR 680K OHM+-5% 1/8W |
| C207 | 065G0603103 31 | CHIP 0.01UF 50V NPO |
| C215 | 065G0603103 31 | CHIP 0.01UF 50V NPO |
| C225 | 065G0603103 31 | CHIP 0.01UF 50V NPO |
| C239 | 065G0603103 31 | CHIP 0.01UF 50V NPO |
| C245 | 065G0603103 31 | CHIP 0.01UF 50V NPO |

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| C251 | 065G0603103 31 | CHIP 0.01UF 50V NPO |
| C252 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C249 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C247 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C253 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C228 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C211 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C244 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C241 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C234 | 065G0603104 32 | CHIP 0.1UF 50V X7R |
| C227 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C210 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C213 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C218 | 065G0603105 12 | CHIP 1UF 16VX7R 0603 |
| C246 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C250 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C238 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C224 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C214 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C208 | 065G0603123 32 | CAP:CER 0.012UF 5% 50V 0603 |
| C231 | 065G0603152 32 | 1500PF +-10% 50V X7R 06 |
| C216 | 065G0603224 12 | CHIP 0.22UF +-10% 16V X7R |
| C217 | 065G0603473 32 | CHIP 0.047UF 50V X7R |
| C229 | 065G0603473 32 | CHIP 0.047UF 50V X7R |
| C220 | 065G0603474 27 | CHIP 0.47UF 25V Y5V |
| C230 | 065G0603682 32 | CHIP 0.0068UF 50V X7R 0603 |
| C910 | 065G0805102 31 | 1000PF 50V NPO |
| C925 | 065G0805103 22 GP | CHIP 0.01UF 25V X7R 0805 |
| C254 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C908 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C911 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C912 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C917 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C918 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C924 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C109 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C104 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C102 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C243 | 065G0805104 32 | CHIP 0.1U 50V X7R |

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| C235 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C209 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C202 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C115 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C114 | 065G0805104 32 | CHIP 0.1U 50V X7R |
| C223 | 065G0805105 22 | CHIP 1UF 25V X7R 0805 |
| C909 | 065G0805201 32 | CHIP 200PF 50V MPO 0805 |
| C222 | 065G0805221 31 | 220PF 50V NPO |
| C226 | 065G0805472 31 | CHIP 4700PF 50V X7R 0805 |
| C913 | 065G1206102 72 | CHIP 1000PF 500V X7R |
| C259 | 065G1206475 22 | 4.7U/25V X7R |
| C256 | 065G1206475 22 | 4.7U/25V X7R |
| C240 | 065G1206475 22 | 4.7U/25V X7R |
| C236 | 065G1206475 22 | 4.7U/25V X7R |
| C206 | 065G1206475 22 | 4.7U/25V X7R |
| C203 | 065G1206475 22 | 4.7U/25V X7R |
| D223 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D222 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D220 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D218 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D216 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D215 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D210 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D209 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D208 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D205 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D204 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D203 | 093G 64 33 | DIO SIG SM BAV99 (PHSE)R |
| D906 | 093G 6432V | LL4148-GS08 |
| D905 | 093G 6432V | LL4148-GS08 |
| D903 | 093G 6432V | LL4148-GS08 |
| D227 | 093G 6432V | LL4148-GS08 |
| D102 | 093G 6432V | LL4148-GS08 |
| ZD901 | 093G 39S 20 T | RLZ22B LLDS |
| ZD201 | 093G 39S 24 T | RLZ 5.6B LLDS |
| ZD202 | 093G 39S 24 T | RLZ 5.6B LLDS |
| ZD204 | 093G 39S 24 T | RLZ 5.6B LLDS |
| ZD203 | 093G 39S 35 T | RLZ 9.1C LLDS |
| ZD902 | 093G 39S 40 T | RLZ 13B LLDS |

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|-------|----------------|--------------------------------|
| ZD101 | 093G 39S 48 T | RLZ6B ROHM |
| D101 | 093G8004 2 | SBM84 BY CHENMKO |
| | PW2066SEY1AIP | POWER BOARD FOR AI |
| CN901 | 006G 31500 | EYELET |
| L902 | 006G 31502 | 1.5MM RIVET |
| C905 | 006G 31502 | 1.5MM RIVET |
| L904 | 006G 31502 | 1.5MM RIVET |
| NR901 | 006G 31502 | 1.5MM RIVET |
| PT201 | 006G 31502 | 1.5MM RIVET |
| PT202 | 006G 31502 | 1.5MM RIVET |
| PT203 | 006G 31502 | 1.5MM RIVET |
| PT204 | 006G 31502 | 1.5MM RIVET |
| PT205 | 006G 31502 | 1.5MM RIVET |
| PT206 | 006G 31502 | 1.5MM RIVET |
| Q901 | 006G 31502 | 1.5MM RIVET |
| T901 | 006G 31502 | 1.5MM RIVET |
| | 715G1646 1 | PCB BOARD PCB |
| R915 | 061G 17230352T | 30K OHM5%1/4W |
| FB101 | 071G 55 29 | FERRITE BEAD |
| J957 | 071G 55 29 | FERRITE BEAD |
| D221 | 093G 521ZJ26T | SB240 |
| D219 | 093G 521ZJ26T | SB240 |
| D217 | 093G 521ZJ26T | SB240 |
| D214 | 093G 521ZJ26T | SB240 |
| D207 | 093G 521ZJ26T | SB240 |
| D206 | 093G 521ZJ26T | SB240 |
| D202 | 093G 521ZJ26T | SB240 |
| D201 | 093G 521ZJ26T | SB240 |
| D901 | 093G 6026T52T | RECTIFIER DIODE FR107 |
| D902 | 093G 6038P52T | PS102R |
| D904 | 093G 64 1152T | 1N4148 |
| IC903 | 056G 158 10 T | IC AZ431AZ-AE1 TO-92 BY AAC |
| C906 | 065G 1K152 1T | 1.5NF/1KV Z5F+-10% |
| C907 | 067G 2154707NT | KY50VB47M-TP5 6.3*11 |
| C922 | 067G 2154797NT | LOW ESR 4.7UF+-20% 50V BY CHEM |
| F901 | 084G 56 1 | FUSE 2A 250V WICKMANN |

12. Different Parts List

| Diversity of TA90KSUDBYY2AP compared with TA90KSUHBYY3AP | | |
|--|------------------|-----------------------------|
| Location | Part No. for TPV | Description |
| | 089G 173 56 11 | AUDIO CABLE |
| E089B | 089G1748GAB12B | SIGNAL CABEL DB15-DB15 |
| | 095G8014 14639 | WIRB HARNESS |
| | 0M1G 330 5120 | SCREW |
| | 0Q1G 330 8120 | SCREW 3X8mm |
| | 705GQAK0P34001 | 20.1" LCD STAND COVER ASS'Y |
| | KEPCA90KY1P | KEY BOARD FOR TA90* |
| | Q33G4901 F1 1L | KNOB CONTROL |
| | Q33G4903 F1 1L | HINGE COVER R |
| | Q33G4903 F1 2L | HINGE COVER L |
| | Q34G1645 F1A1B | BEZEL |
| | Q34G1646 F1 1B | REAR COVER |
| | Q40G 20N695 2A | Rating label |
| | Q34G1647 F1 1B | STAND |
| | 040G 457624 1B | LABEL-CPU |
| | 040G 45762412B | CBPC LABEL |
| D101 | 081G 12 1 GP | GP32032ME |