

# **SERVICE MANUAL**

## **17" LCD Monitor**

**DELL E173FP**



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**Manufacture Date: May-29-04**

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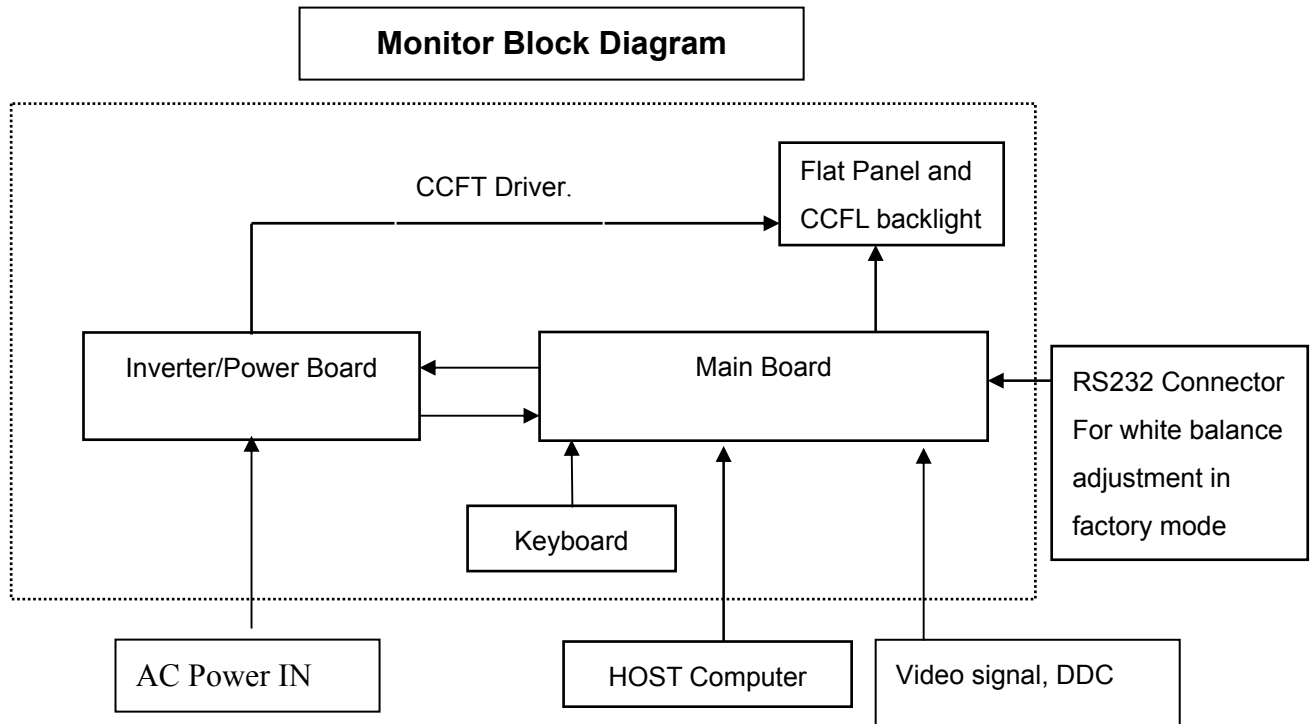
## 1. MONITOR SPECIFICATIONS

|                              |                      |                                                                                               |
|------------------------------|----------------------|-----------------------------------------------------------------------------------------------|
| LCD Panel                    | Driving system       | TFT Color LCD                                                                                 |
|                              | Size                 | 43cm(17.0")                                                                                   |
|                              | Pixel pitch          | 0.264mm(H) x 0.264mm(V)                                                                       |
|                              | Viewable angle       | 140° (H) 120° (V)                                                                             |
|                              | Response time (typ.) | 16 ms                                                                                         |
| Input                        | Video                | Analog Only                                                                                   |
|                              | Sync. Type           | H/V TTL Separate and Composite Sync.                                                          |
|                              | H-Frequency          | 30kHz – 80kHz                                                                                 |
|                              | V-Frequency          | 56-75Hz                                                                                       |
| Display Colors               |                      | Over 16.2 million Colors                                                                      |
| Dot Clock                    |                      | 135MHz                                                                                        |
| Max. Resolution              |                      | 1280 x 1024                                                                                   |
| Plug & Play                  |                      | VESA DDC2B™                                                                                   |
| Power Consumption            | ON Mode              | <35W                                                                                          |
|                              | Power Saving         | ≤2W                                                                                           |
| Maximum Screen Size          |                      | Horizontal : 337.92mm<br>Vertical: 270.336mm                                                  |
| Power Source                 |                      | 90~264VAC, 47~63Hz                                                                            |
| Environmental Considerations |                      | Operating Temp: 0°C to 50°C<br>Storage Temp.: -20°C to 60°C<br>Operating Humidity: 10% to 90% |
| Weight (N. W.)               | Packaged             | 5.8Kgs Unit                                                                                   |
|                              | Unpackaged           | 4.6Kgs Unit                                                                                   |

## 2. LCD MONITOR DESCRIPTION

The LCD MONITOR will contain a main board, an internal inverter/power board, keypad board, which house the flat panel control logic, brightness control logic and DDC.

The internal Inverter/power board will drive the backlight of panel and the DC-DC conversion. and provides the 12V DC-power to main board.



### 3. OPERATING INSTRUCTIONS

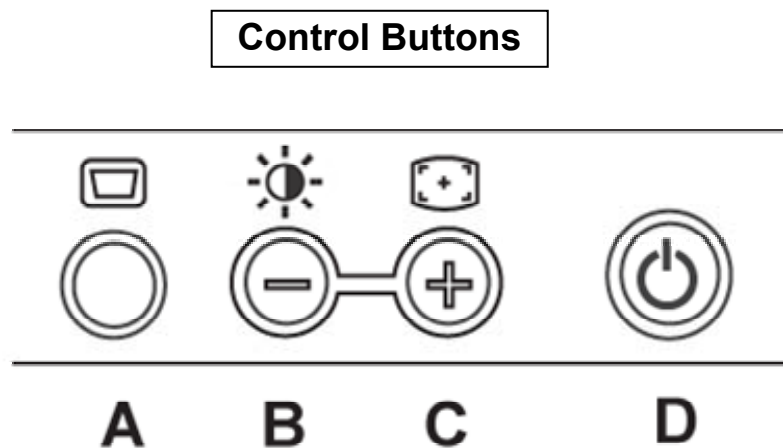
#### 3.1 GENERAL INSTRUCTIONS

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 BUTTONS

- **Power Button:**  
When pressed, the monitor enters the off mode, and the LED turns blank. Press again to restore normal status.
- **Brightness Button:**  
The Brightness Button is used to select the Brightness/Contrast adjust functions. Press to switch functions or adjust settings.
- **Auto Adjust Key:**  
The Auto Adjust Key is used to automatically set the H Position, V Position, Clock and Phase.
- **Power Indicator:**  
Green — Power On mode.  
Orange — Power Saving mode.  
Blank —Power Off Mode.

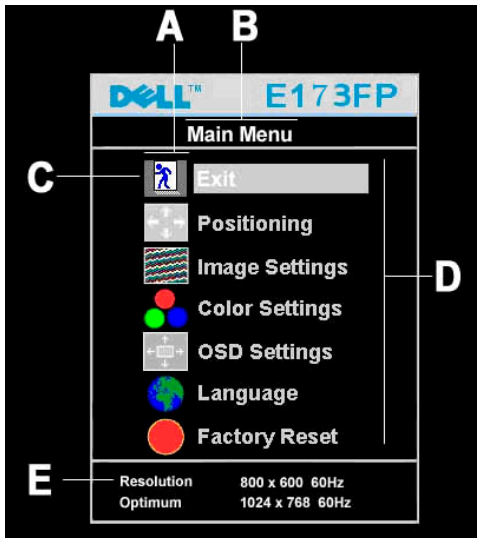


- A. Buttons for the OSD menu  
(On-Screen-display)  
B. Brightness Button  
C. Auto Adjust Button  
D. Power On/Off Button and indicator

3.3 ADJUSTING THE PICTURE

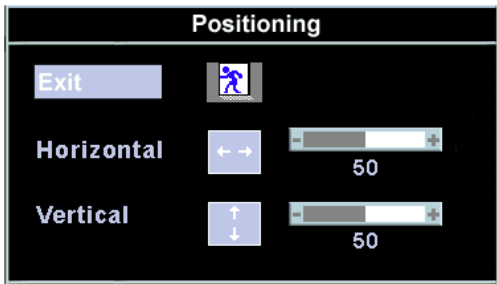
To set the OSD menu, perform the following steps:  
Briefly press the SELCT / MENU button to activate the OSD menu.

The main menu appears on the screen with icons for the setting functions.



The first symbol (*Exit*) is highlighted.  
Necessary, press the - or + button to mark another icon (e.g. *Positioning*).  
Press the SELECT/MENU button to select the highlighted icon.

The corresponding setting window (here: *Positioning*) is displayed.



The first symbol (*Exit*) is highlighted.  
If necessary, press the – or + button to mark the desired icon.  
Press the SELECT/MENU button to select the highlighted function.  
Press the – or + button to adjust the value for the selected function.  
Press the SELECT/MENU button to exit the function.  
Press the SELECT/MENU button to exit the sub-menu when “Exit” function is highlighted;

All changes are stored automatically.

Adjusting the brightness and contrast

|            |                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------|
|            | Calling the <i>Brightness / Contrast</i> setting window using Brightness button.                                  |
| Brightness | Setting the brightness of the display<br>With this function you change the brightness of the background lighting. |
| Contrast   | Setting the contrast of the display<br>With this function you modify the contrast of bright colour tones.         |

## Adjusting size and position

|                                                                                   |                                                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  | Calling the Positioning setting window                                                                    |
| H-Position                                                                        | Adjusting the horizontal position<br>With this function you move the picture to the left or to the right. |
| V-Position                                                                        | Adjusting the vertical position<br>With this function you move the picture up or down.                    |

## Setting Image

|                                                                                   |                                                                                                             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  | Calling the Image setting window                                                                            |
| Auto Adjust                                                                       | Auto adjust will produce best image automatically, The information of “ Auto Adjust In Progress” will show; |
| Pixel clock                                                                       | Adjusting the pixel clock                                                                                   |
| Phase                                                                             | Adjusting the phase                                                                                         |

## Setting colour temperature and colours

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Calling the <i>Color</i> setting window                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                     | <p>Selecting the colour temperature</p> <p>The colour temperature is measured in K (= Kelvin). You can select from Normal Preset, Blue Preset, Red Preset to User Preset;</p> <p><i>Normal preset</i> = Original colour of the LCD display, it's 6500K;</p> <p><i>Blue preset</i> = 5700K colour of the LCD display, it's 9300K;</p> <p><i>Red preset</i> = 9300K colour of the LCD display, it's 5700K;</p> <p><i>User preset</i> = Setting user-defined colours</p> <p>In the user preset setting you can change the colour ratios of the basic colours (red, green, blue) as required.</p> |

## Setting display of the OSD menu

|                                                                                     |                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|  | Calling the <i>OSD Set up</i> setting window                                                                             |
| Horizontal Position                                                                 | Setting the horizontal position of the OSD menu<br>With this function you move the OSD menu to the left or to the right. |
| Vertical Position                                                                   | Setting the vertical position of the OSD menu<br>With this function you move the OSD menu up or down.                    |

|                     |                                                                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OSD<br>Hold<br>Time | Setting the display duration of the OSD menu<br><br>With this function you select a value from 0 to 60 seconds.<br><br>If the set time expires without a setting being made, the OSD menu is automatically faded out. |
| OSD<br>Lock         | Setting the display of the OSD menu lock or unlock.<br><br>With this function you select Yes to lock OSD, NO to unlock it.                                                                                            |

### Setting Language

|                                                                                   |                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|  | Calling the <i>Language</i> setting window                                                                                              |
|                                                                                   | With this function you choose between English (default setting), French, German, Spanish and Japanese as the language for the OSD menu. |

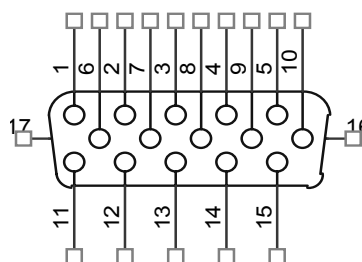
### Factory Reset

|                                                                                   |                                                                                                                              |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|  | Activating the factory settings                                                                                              |
|                                                                                   | With this function all settings except Language of OSD are reset to the factory settings without prompting for confirmation. |

## 4. Input/Output Specification

### 4.1 Input Signal Connector

#### 4.1.1 Analog D-SUB Connector



| Pin | Meaning            | Pin | Meaning    |
|-----|--------------------|-----|------------|
| 1   | Video input red    | 9   | +5 V (DDC) |
| 2   | Video input green  | 10  | VGA-PG     |
| 3   | Video input blue   | 11  | Ground     |
| 4   | Ground             | 12  | DDC-Data   |
| 5   | Ground             | 13  | H. Sync    |
| 6   | Red video ground   | 14  | V. Sync    |
| 7   | Green video ground | 15  | DDC Clock  |
| 8   | Blue video ground  |     |            |

### 4.2 Factory Preset Display Modes

The following are the most frequently used of the preset operating modes:

| Horizontal frequency | Refresh rate | Screen resolution |
|----------------------|--------------|-------------------|
| 31.5 kHz             | 70 Hz        | 720 x 400         |
| 31.5 kHz             | 60 Hz        | 640 x 480         |
| 37.5 kHz             | 75 Hz        | 640 x 480         |
| 37.9 kHz             | 60 Hz        | 800 x 600         |
| 46.9 kHz             | 75 Hz        | 800 x 600         |
| 48.4 kHz             | 60 Hz        | 1024 x 768        |
| 60.0 kHz             | 75 Hz        | 1024 x 768        |
| 67.5KHz              | 75Hz         | 1152 x 864        |
| 64.0KHz              | 60Hz         | 1280 x 1024       |
| 79.9KHz              | 75Hz         | 1280 x 1024       |

For ergonomic reasons, a screen resolution of **1280 x 1024** pixels is recommended. Because of the technology used (active matrix) an LCD monitor provides a totally flicker-free picture even with a refresh rate of 60 Hz.

### 4.3 Power Supply Requirements

#### 4.3.1 Input Requirements

AC INPUT VOLTAGE: 90V ~ 264V

AC INPUT FREQUENCY: 47 ~ 63 HZ

AC INPUT CURRENT: 1.5A max.

INRUSH CURRENT: 60A MAX AT 264VAC COLD START

LEAKAGE CURRENT: 3.5 mA MAX and less then 0.25 mA at 100Vac

#### 4.3.2 Output Requirements

| ITEM                 | MIN. | TYP. | MAX. | UNIT | REMARK |
|----------------------|------|------|------|------|--------|
| Output voltage (12V) | 11.4 | 12   | 12.6 | V    |        |
| Output current (12V) | 0    | 2.0  | 3.0  | A    |        |
| Output voltage ( 5V) | 4.75 | 5.0  | 5.25 | V    |        |
| Output current (5V)  | 0    | 1.5  | 2.0  | A    |        |
| Ripple & Noise (12V) |      |      | 200  | mV   |        |
| Ripple & Noise (5V)  |      |      | 100  | mV   |        |

### 4.4 PANEL SPECIFICATION

#### 4.4.1 Panel Feature

- High contrast ratio, high aperture structure
- Wide viewing angle
- High-speed response
- SXGA (1280 x 1024 pixels) resolution
- Low power consumption

#### 4.4.2 Display Characteristics

| Items             | Specification          | Unit   |
|-------------------|------------------------|--------|
| Display Area      | 337.92x270.336         | mm     |
| Driver element    | a-Si TFT active matrix |        |
| Display color     | 16.2M                  | Colors |
| Number of pixels  | 1280 x 1024            | pixel  |
| Pixel Arrangement | RGB vertical stripe    |        |
| Pixel pitch       | 0.264(H) x 0.264(W)    | mm     |
| Display Mode      | Normally Black         |        |

#### 4.4.3 Optical Characteristics

The optical characteristics are measured under stable conditions at 25°C (Room Temperature):

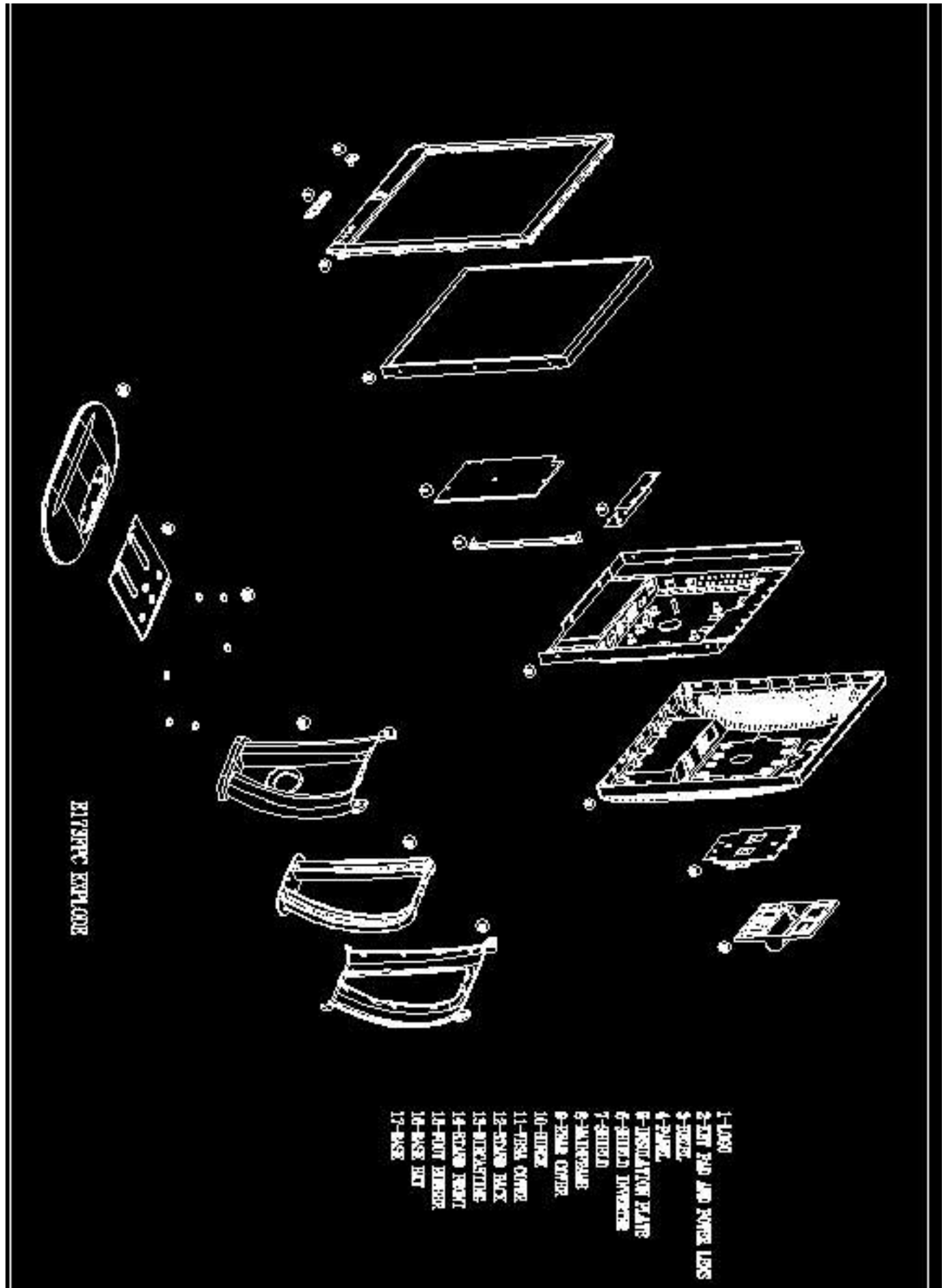
| Parameter                    | Symbol          | Values |       |       | Units             | Notes                       |
|------------------------------|-----------------|--------|-------|-------|-------------------|-----------------------------|
|                              |                 | Min.   | Typ.  | Max.  |                   |                             |
| Contrast ratio               | CR              | 300    | 500   | -     |                   | 1                           |
| Surface luminance, white     | $L_{WH}$        | 200    | 250   | -     | cd/m <sup>2</sup> | 2                           |
| Luminance uniformity         | $\Delta L_9$    | 75     | -     | -     | %                 | 3                           |
| Response time                | Tr              |        | 16    | 30    | ms                | 4                           |
| Rise time                    | Tr <sub>R</sub> | -      | 4     | 6     |                   |                             |
| Decay time                   | Tr <sub>D</sub> | -      | 12    | 24    |                   |                             |
| CIE color coordinates        |                 |        |       |       |                   |                             |
| Red                          | XR              | 0.611  | 0.641 | 0.671 |                   |                             |
|                              | YR              | 0.312  | 0.342 | 0.372 |                   |                             |
| Green                        | XG              | 0.262  | 0.292 | 0.322 |                   |                             |
|                              | YG              | 0.581  | 0.611 | 0.641 |                   |                             |
| Blue                         | XB              | 0.117  | 0.147 | 0.177 |                   |                             |
|                              | YB              | 0.038  | 0.068 | 0.098 |                   |                             |
| White                        | XW              | 0.283  | 0.313 | 0.343 |                   |                             |
|                              | YW              | 0.299  | 0.329 | 0.359 |                   |                             |
| Viewing angle (by CR ≥ 10)   |                 |        |       |       |                   |                             |
| X axis, right(φ=0°)          | θr              | 60     | 70    | -     | degree            | 5                           |
| X axis, left (φ=180°)        | θl              | 60     | 70    | -     |                   |                             |
| Y axis, up (φ=90°)           | θu              | 45     | 60    | -     |                   |                             |
| Y axis, down (φ=270°)        | θd              | 50     | 60    | -     |                   |                             |
| Viewing angle (by CR ≥ 5)    |                 |        |       |       |                   |                             |
| X axis, right(φ=0°)          | θr              | 70     | 80    | -     | degree            |                             |
| X axis, left (φ=180°)        | θl              | 70     | 80    | -     |                   |                             |
| Y axis, up (φ=90°)           | θu              | 55     | 65    | -     |                   |                             |
| Y axis, down (φ=270°)        | θd              | 65     | 75    | -     |                   |                             |
| Relative brightness          |                 | -      | -     | -     |                   | 6<br>Figure 10<br>Figure 13 |
| Luminance uniformity (TCO99) |                 |        |       | 1.7   |                   |                             |
| Crosstalk                    |                 |        |       | 1.8   | %                 |                             |

#### 4.4.4 Parameter guide line for CCFL Inverter

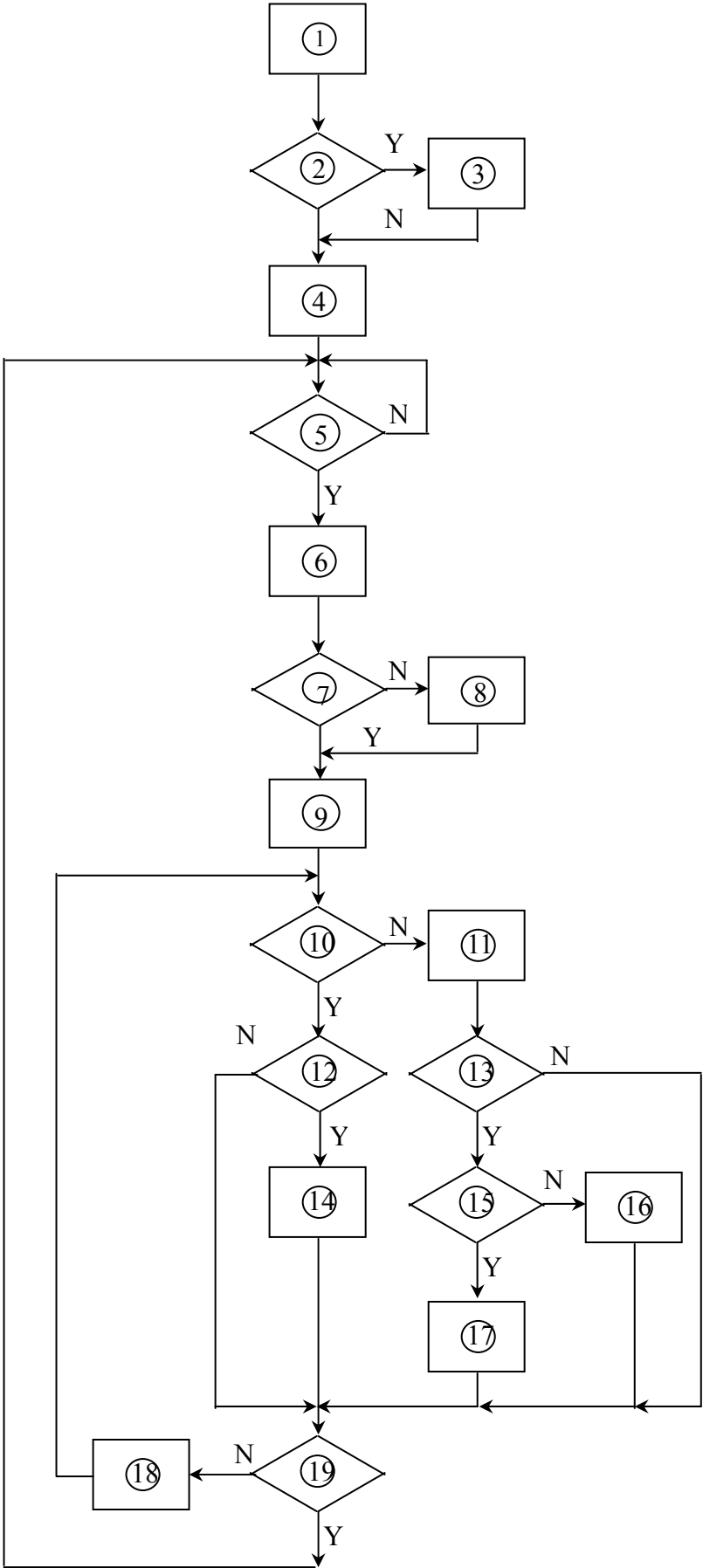
| Parameter                                | Symbol            | Values          |                |                 | Units             | Notes |
|------------------------------------------|-------------------|-----------------|----------------|-----------------|-------------------|-------|
|                                          |                   | Min.            | Typ.           | Max.            |                   |       |
| MODULE :                                 |                   |                 |                |                 |                   |       |
| Power Supply Input Voltage               | V <sub>CC</sub>   | 4.5             | 5.0            | 5.5             | V                 |       |
| Permissive Power Input Ripple            | V <sub>RF</sub>   | -               | -              | 0.1             | V                 |       |
| Power Supply Input Current               | I <sub>CC</sub>   | -               | 0.45           | 0.52            | A                 | 1     |
| Differential Impedance                   | Z <sub>m</sub>    | 90              | 100            | 110             | ohm               |       |
| Power Consumption                        | P <sub>C</sub>    | -               | 2.25           | 2.60            | Watts             |       |
| Rush Current                             | I <sub>RUSH</sub> | -               | 2.0            | 3.0             | A                 | 2     |
| LAMP for each CCFL:                      |                   |                 |                |                 |                   |       |
| Operating Voltage                        | V <sub>BL</sub>   | 640<br>(@7.0mA) | 650<br>(@6.5m) | 745<br>(@2.5mA) | V <sub>RMS</sub>  | 3     |
| Operating Current                        | I <sub>BL</sub>   | 2.5             | 6.5            | 7.0             | mA <sub>RMS</sub> | 4     |
| Established Starting Voltage<br>at 25 °C | V <sub>BS</sub>   | -               | -              | 1000            | V <sub>RMS</sub>  |       |
| at 0 °C                                  |                   | -               | -              | 1250            | V <sub>RMS</sub>  |       |
| Operating Frequency                      | f <sub>BL</sub>   | 40              | 60             | 70              | kHz               | 5     |
| Discharge Stabilization Time             | T <sub>S</sub>    | -               | -              | 3               | Minutes           | 6     |
| Power Consumption                        | P <sub>BL</sub>   | -               | 16.90          | 18.60           | Watts             | 7     |
| Life Time                                |                   | 50,000          | -              | -               | Hrs               | 8     |

## 5. Block Diagram

### 5.1 Monitor Exploded View



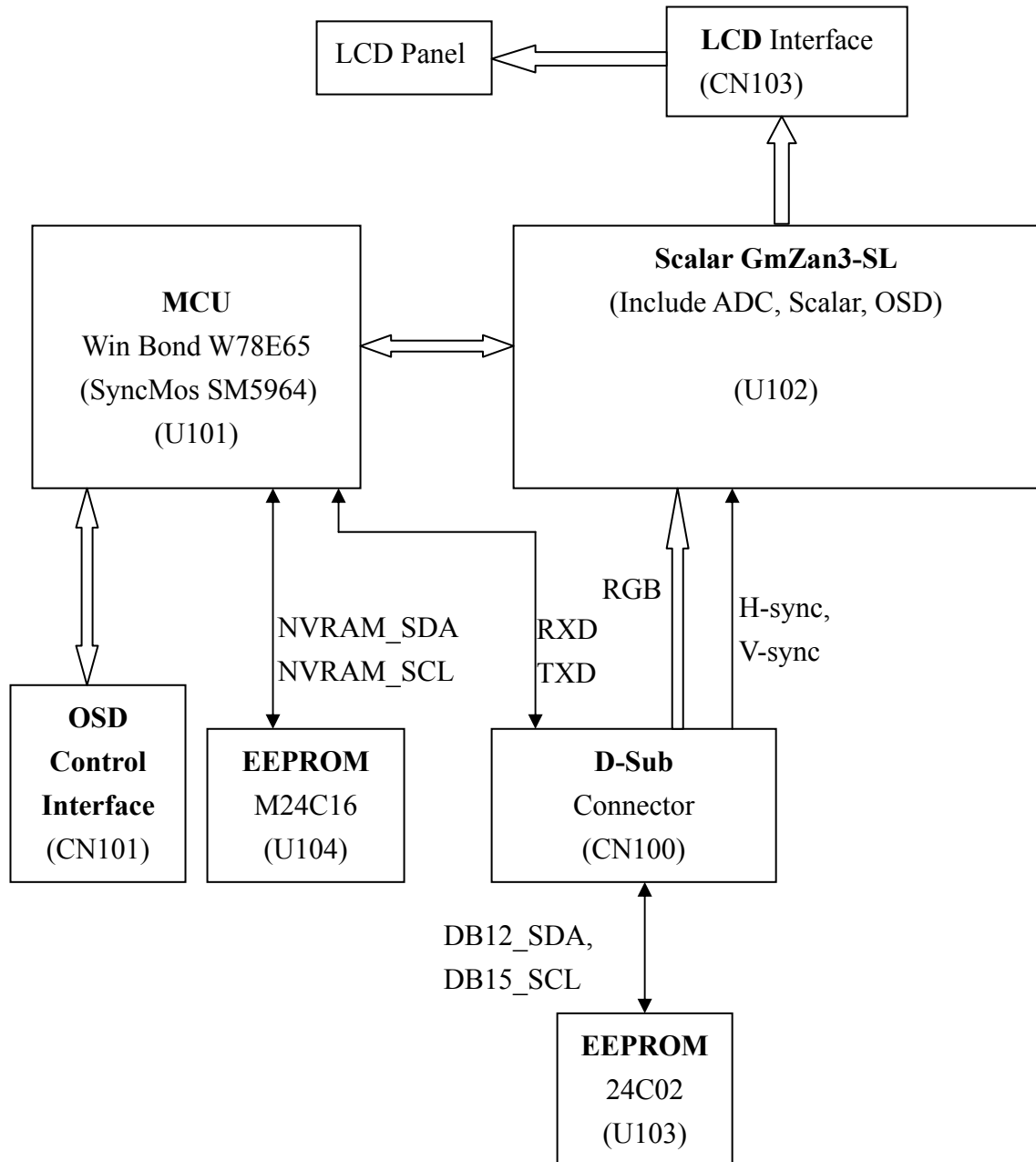
5.2 Software Flow Chart



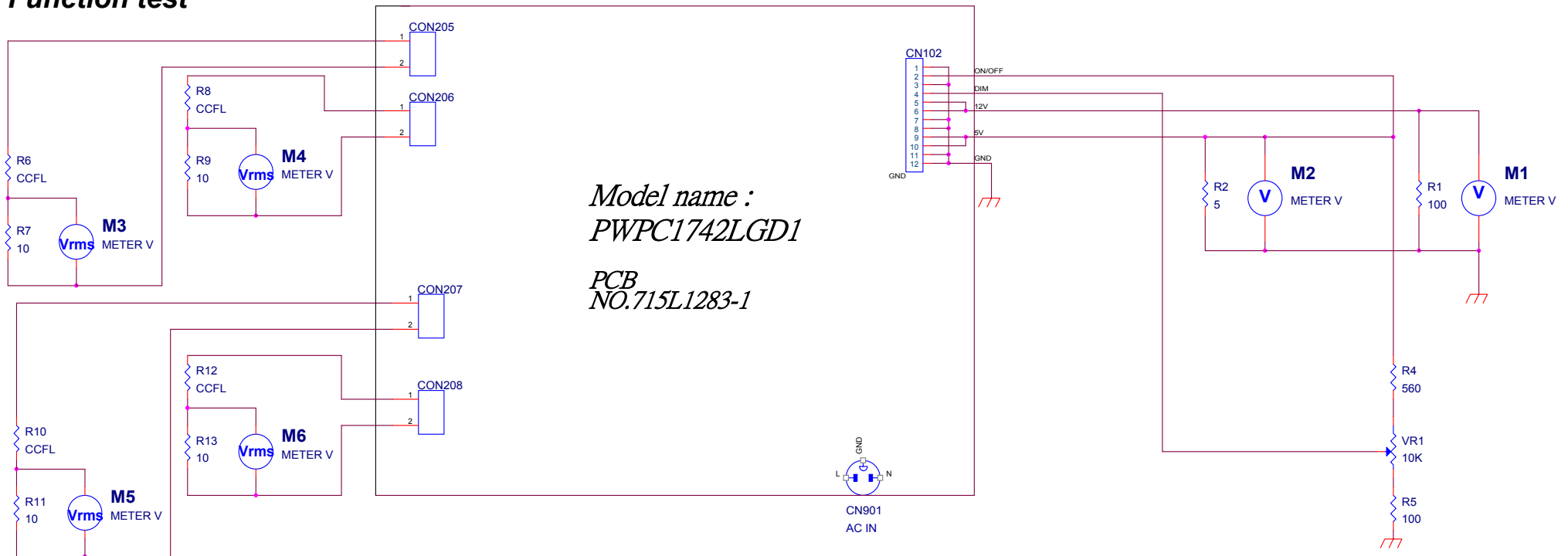
- 1) MCU Initializes.
- 2) Is the EEprom blank?
- 3) Program the EEprom by default values.
- 4) Get the PWM value of brightness from EEprom.
- 5) Is the power key pressed?
- 6) Clear all global flags.
- 7) Are the AUTO and SELECT keys pressed?
- 8) Enter factory mode.
- 9) Save the power key status into EEprom.  
    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?

## 5.3 Electrical Block Diagram

### 5.3.1 Main Board



## 5.3.2 Power Block Diagram

**PWPC1742LGD1**  
**Function test****Function test step :****Step1 :**

1. Adjust VR1 ( Set Vdim voltage from 0V to 5V ) , then check M3 / M4/M5/M6 Vrms .

2. Check M3 / M4/M5/M6 operating frequency. ( note 1 )

Note 1: M3 / M4/M5/M6 need to use two channel multimeter , such as FLUKE 45 , or use the oscilloscope check frequency.

**Specification :**

M1 = 12V +- 0.5V , M2 = 5V +- 0.25V

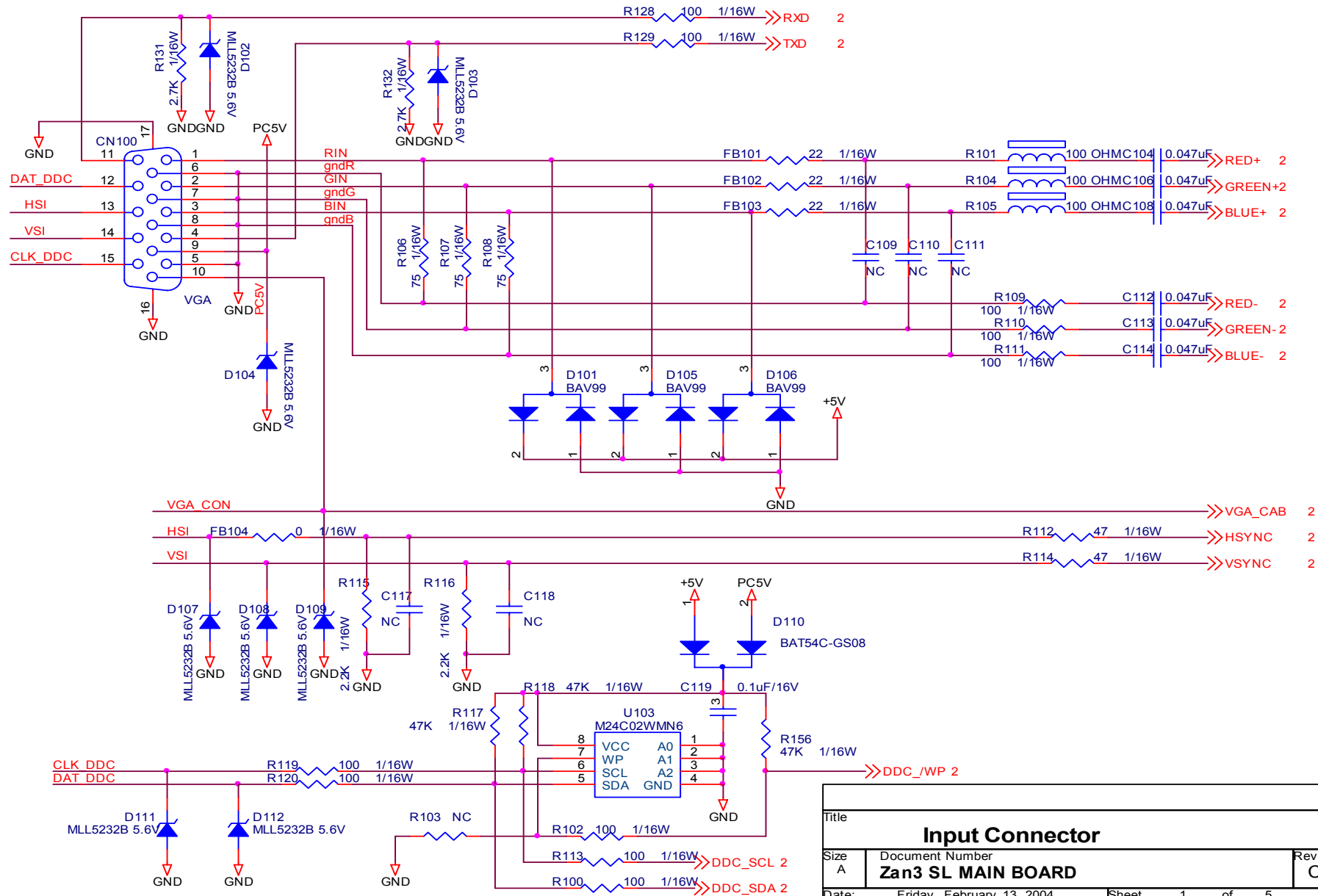
1. M3 / M4/M5/M6 = 6.5 +- 5 mV @ DIM= 5V

M3 / M4 /M5/M6= 3.0 +- 5 mV @ DIM= 0V

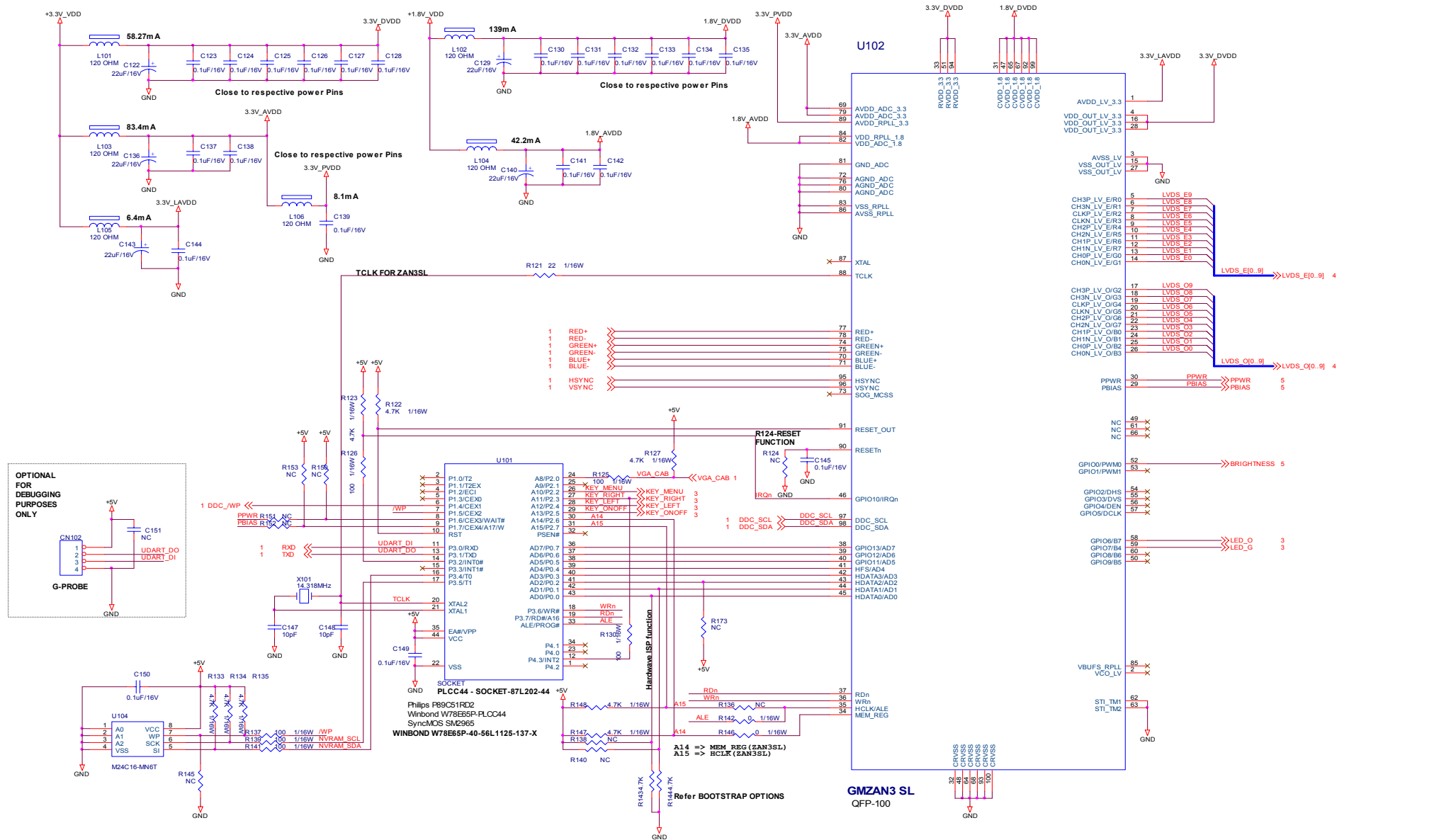
2. M3 / M4/M5/M6= 55KHz +- 5 KHz

## 6. Schematic

## 6.1 Main Board

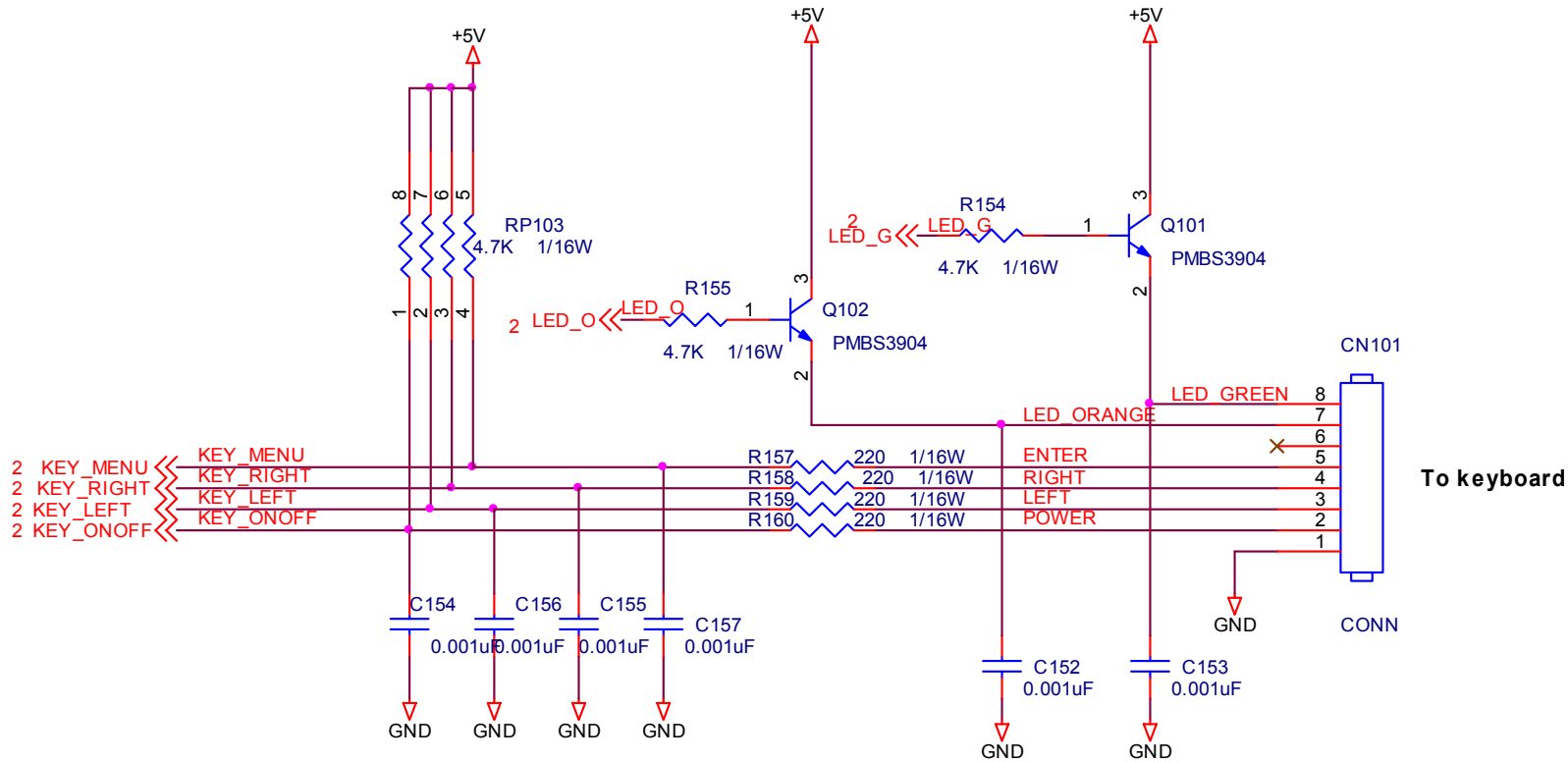


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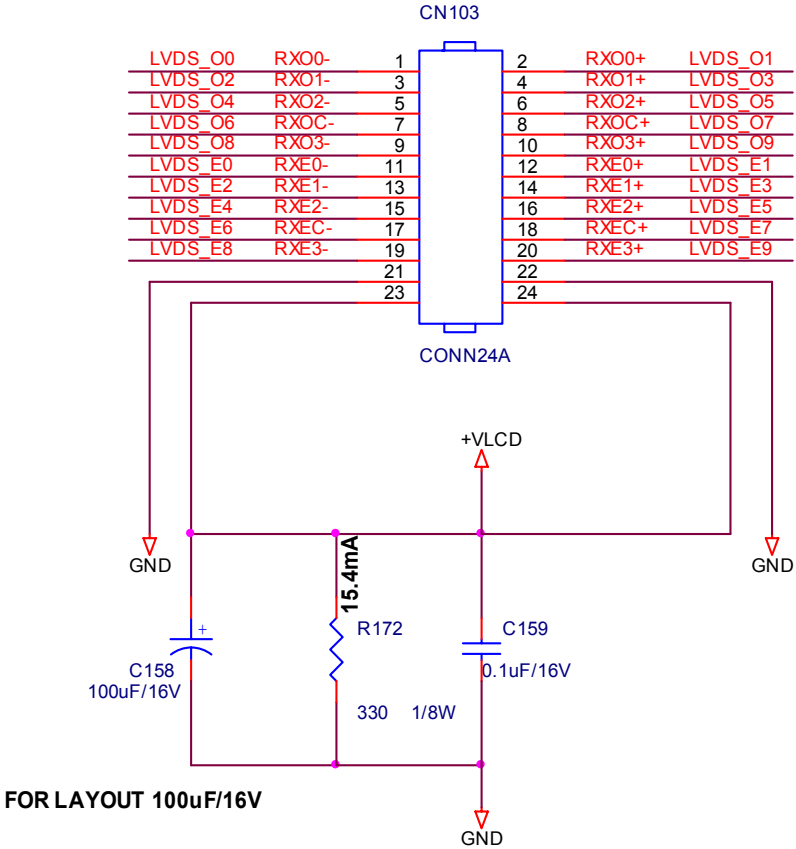
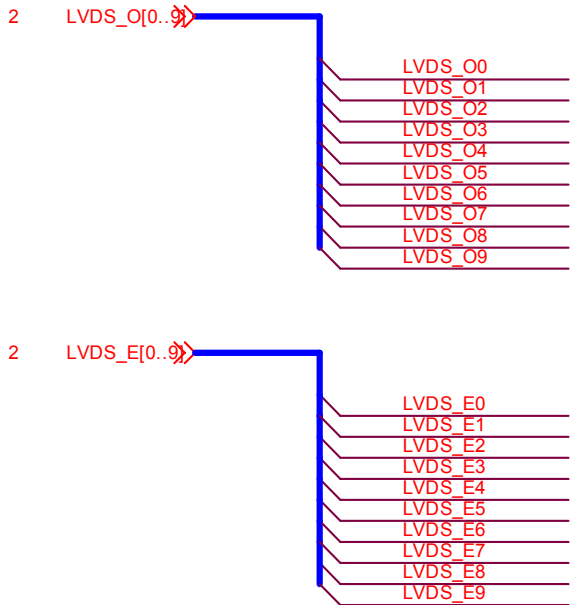


|       |  |  |                           |  |  |
|-------|--|--|---------------------------|--|--|
| Title |  |  | ZAN3 SL & MCU             |  |  |
| Size  |  |  | Document Number           |  |  |
| C     |  |  | Zan3 SL MAIN BOARD        |  |  |
| Date: |  |  | Friday, February 13, 2004 |  |  |
| Sheet |  |  | 2 of 5                    |  |  |

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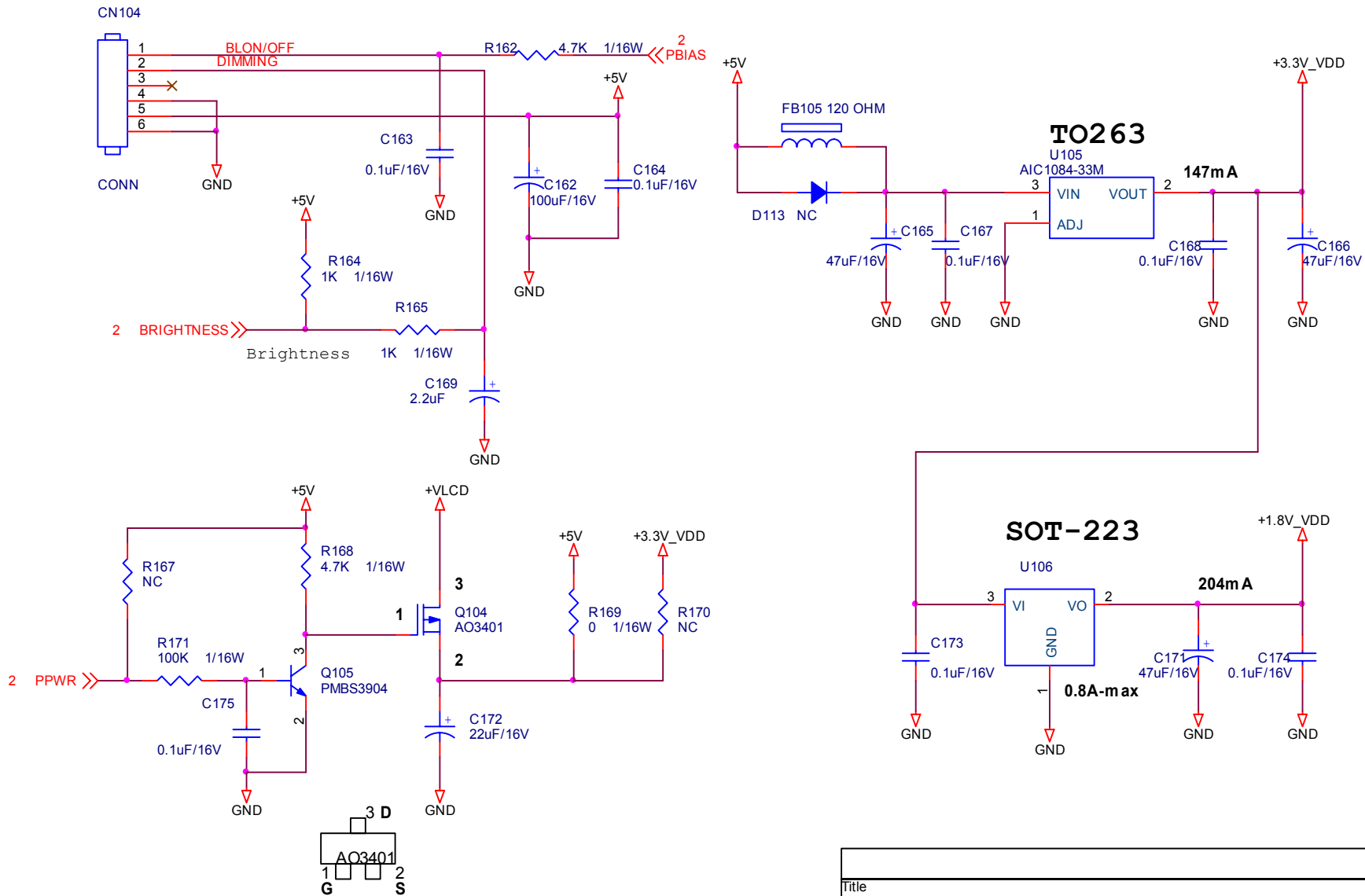


|                 |                                              |              |
|-----------------|----------------------------------------------|--------------|
| Title           |                                              |              |
| KEYS CONNECTION |                                              |              |
| Size<br>A       | Document Number<br><b>Zan3 SL MAIN BOARD</b> | Rev<br>C     |
| Date:           | Friday, February 13, 2004                    | Sheet 3 of 5 |



|                 |                                       |              |
|-----------------|---------------------------------------|--------------|
| Title           |                                       |              |
| PANEL INTERFACE |                                       |              |
| Size<br>A       | Document Number<br>Zan3 SL MAIN BOARD | Rev<br>C     |
| Date:           | Friday, February 13, 2004             | Sheet 4 of 5 |

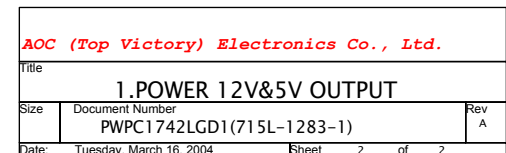
# DELL E173FP Service Manual

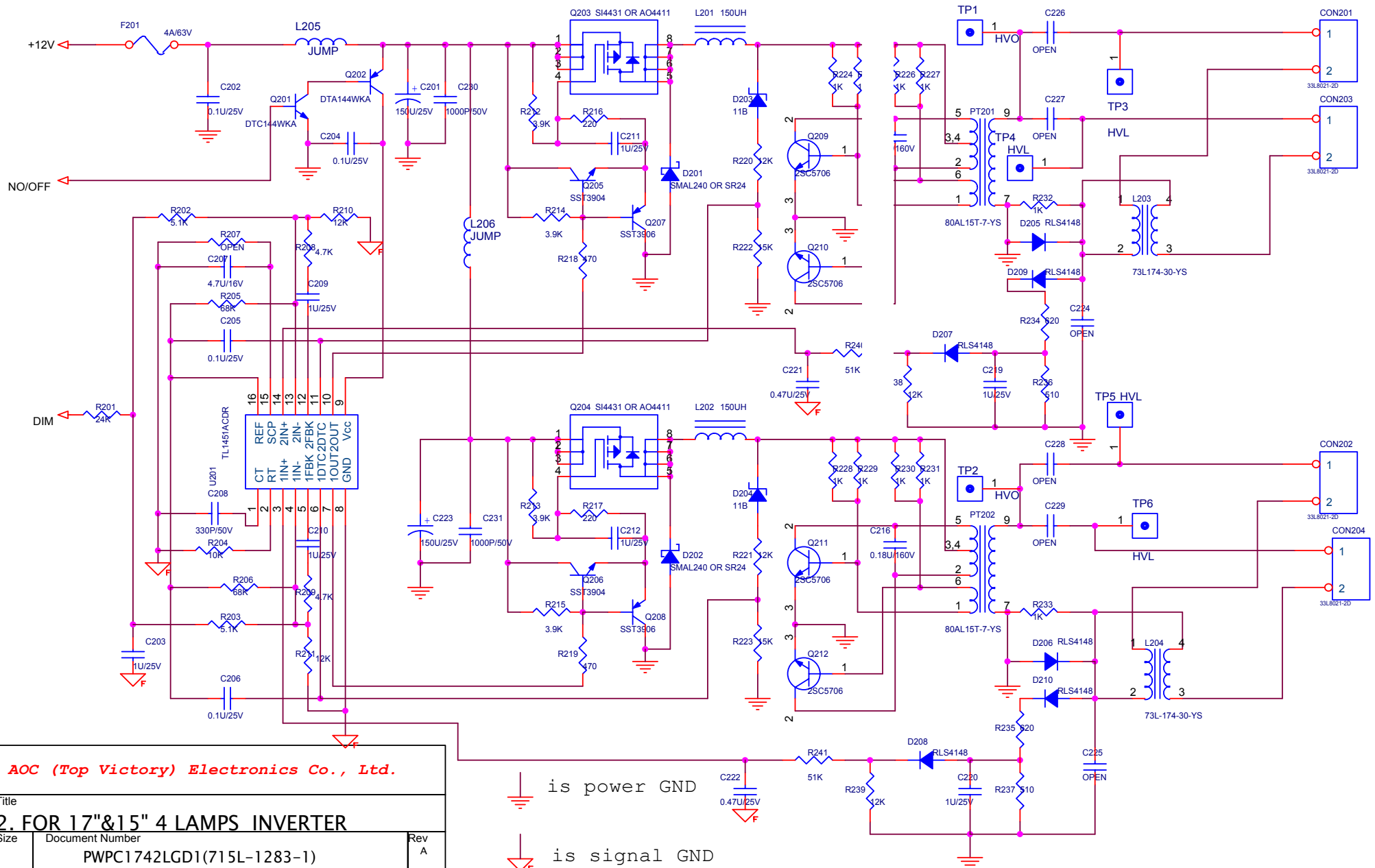


|           |                                       |              |
|-----------|---------------------------------------|--------------|
| Title     |                                       |              |
| POWER     |                                       |              |
| Size<br>A | Document Number<br>Zan3 SL MAIN BOARD | Rev<br>C     |
| Date:     | Friday, February 13, 2004             | Sheet 5 of 5 |

CON102

| Pin | Label  | Connection |
|-----|--------|------------|
| 12  | GND    |            |
| 11  | GND    |            |
| 10  | 5V     | 5V         |
| 9   | 5V     |            |
| 8   | GND    |            |
| 7   | 12V    |            |
| 6   | 12V    | 12V        |
| 5   | DIM    | DIM        |
| 4   | GND    |            |
| 3   | ON/OFF | ON/OFF     |
| 2   | GND    |            |
| 1   | GND    |            |





AOC (Top Victory) Electronics Co., Ltd.

Title  
2. FOR 17" & 15" 4 LAMPS INVERTER

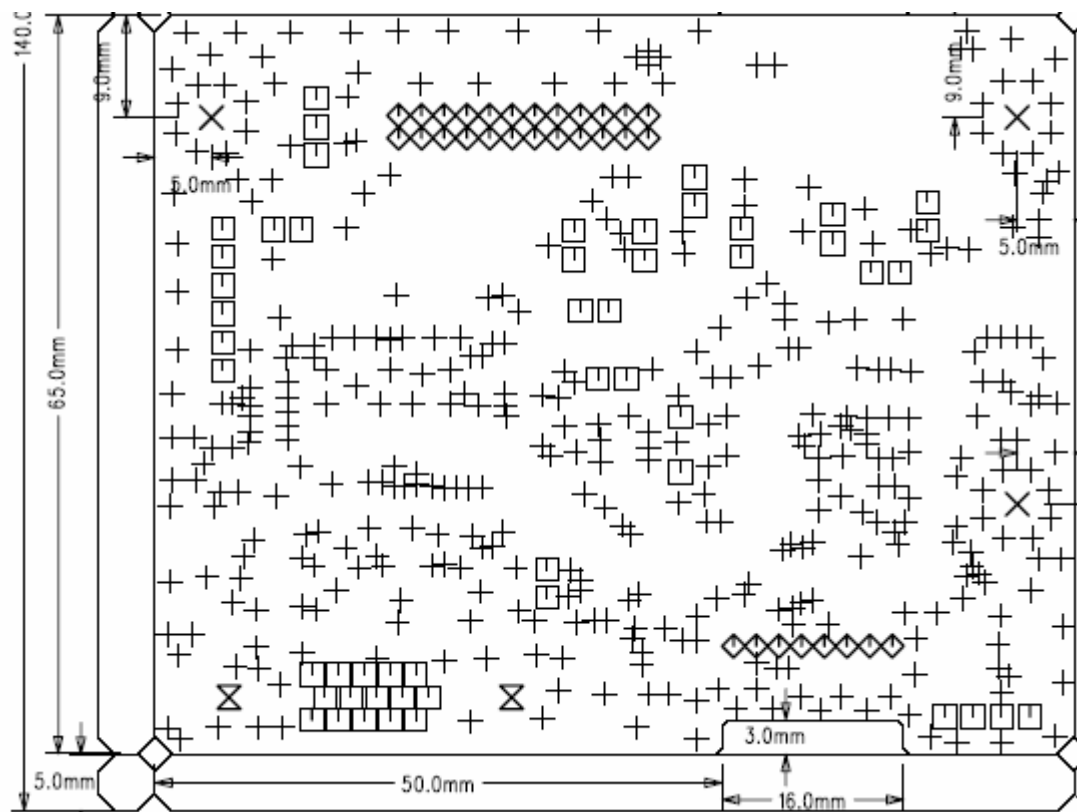
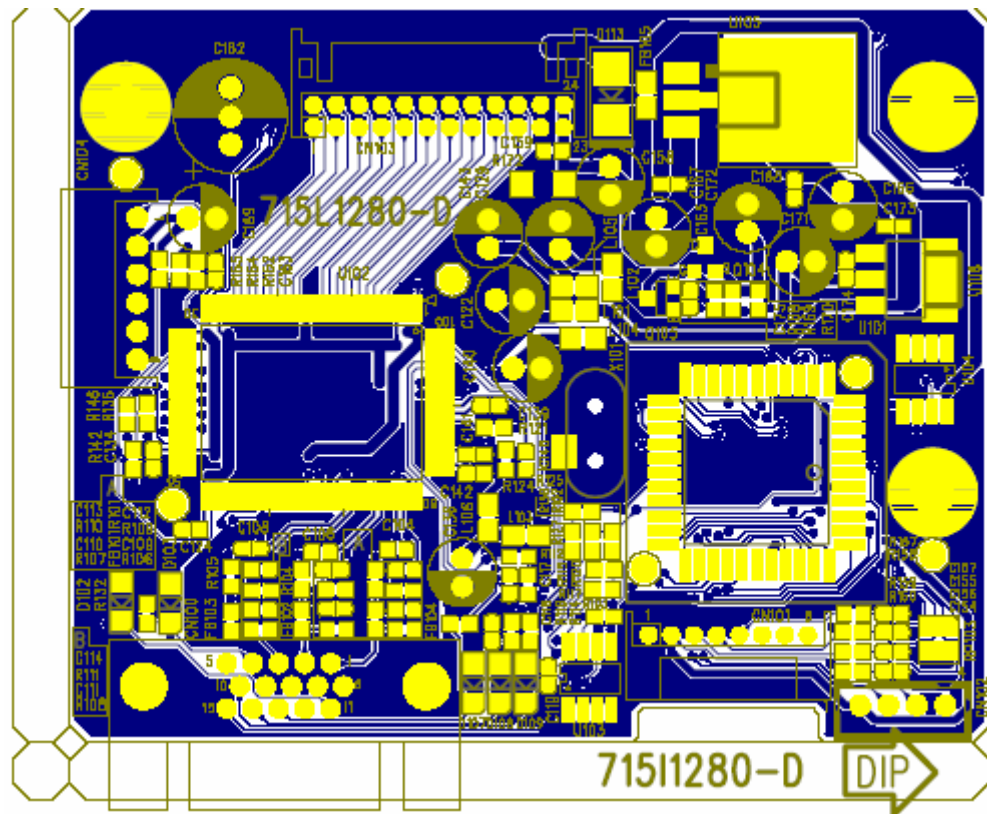
Size Document Number  
PWPC1742LGD1(715L-1283-1)

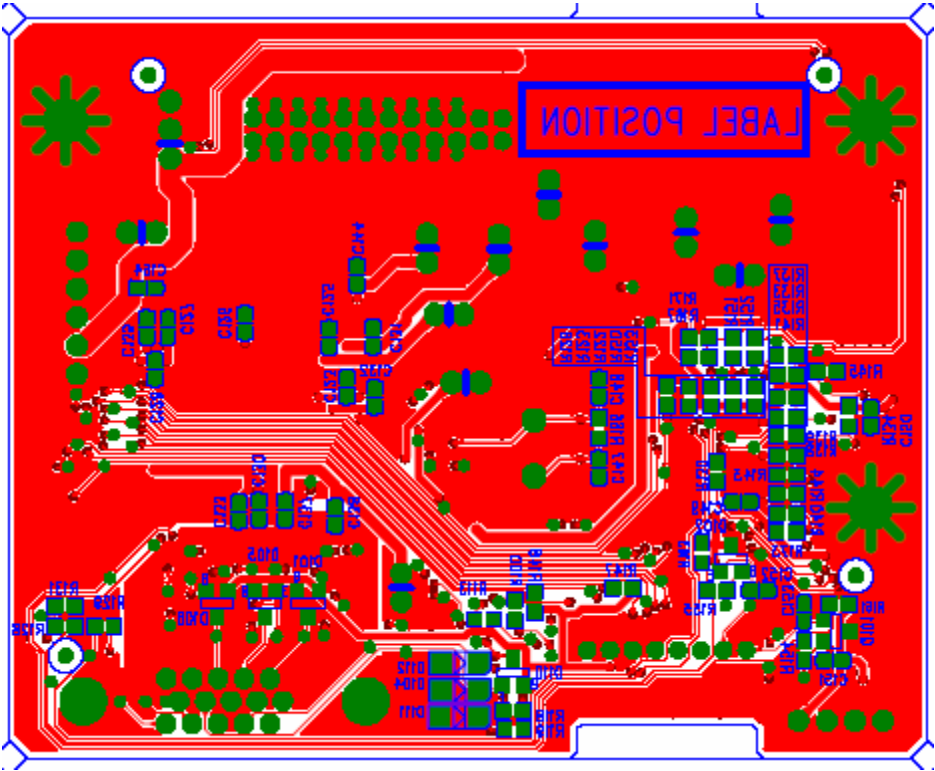
Rev A

Date: Tuesday, March 16, 2004 Sheet 2 of 2

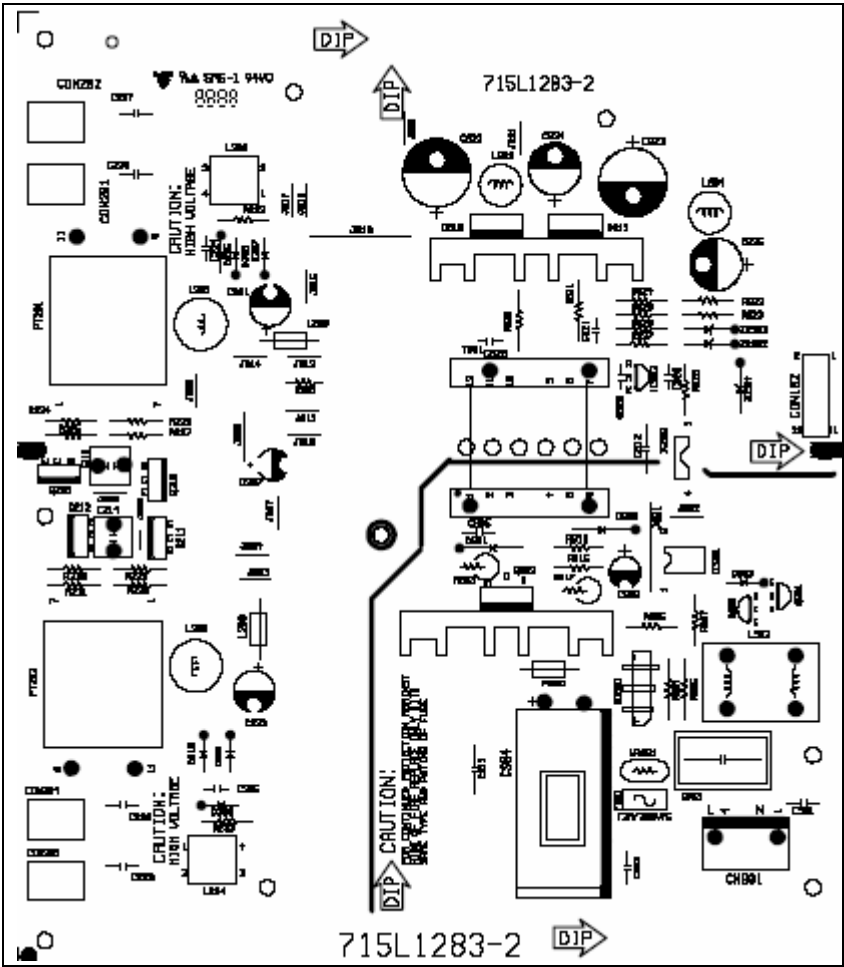
## 7. PCB Layout

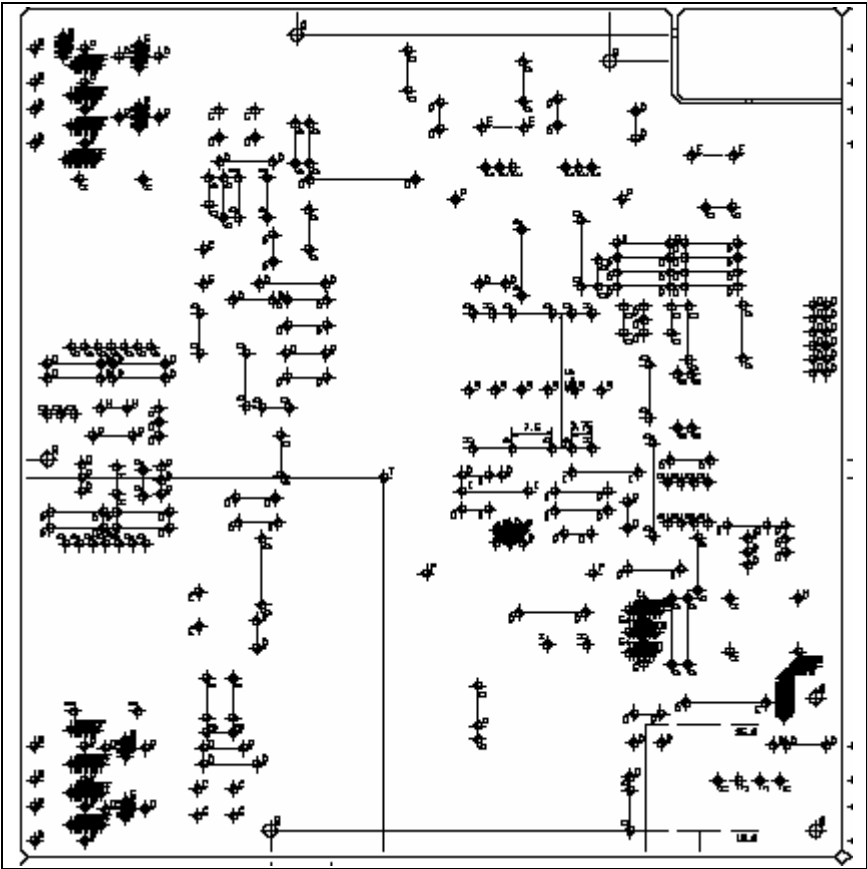
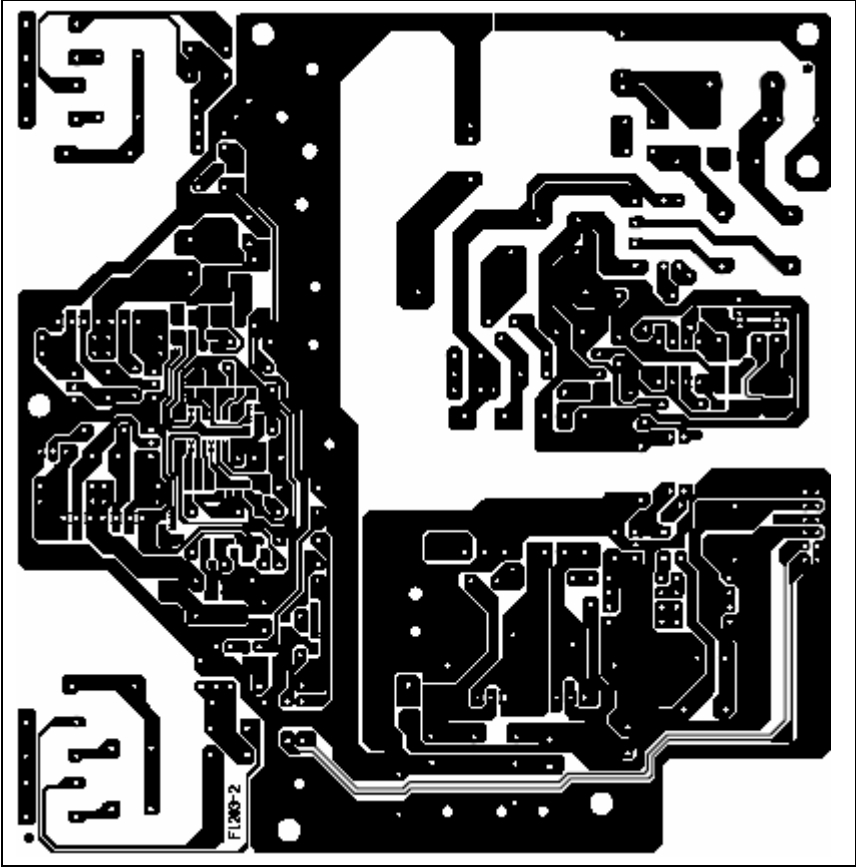
## 7.1 Main Board



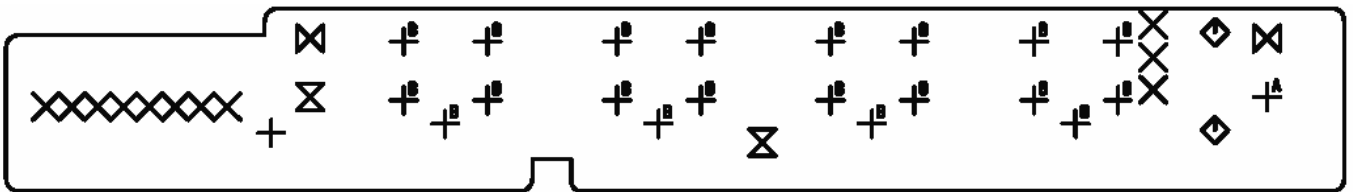
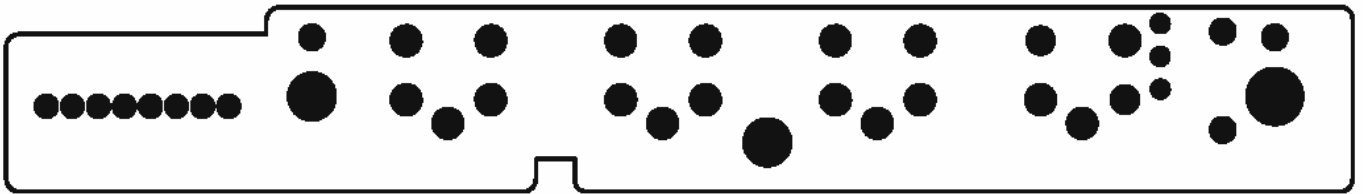
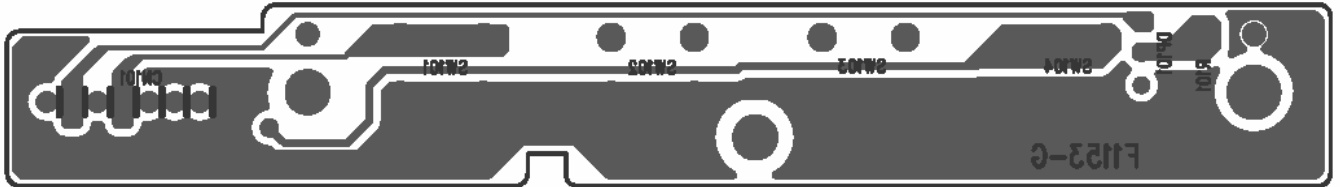
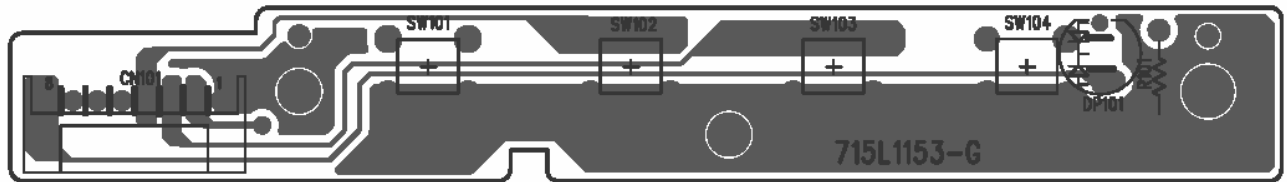


7.2 Inverter/Power Board





## 7.3 Keypad Board



## 8. Maintainability

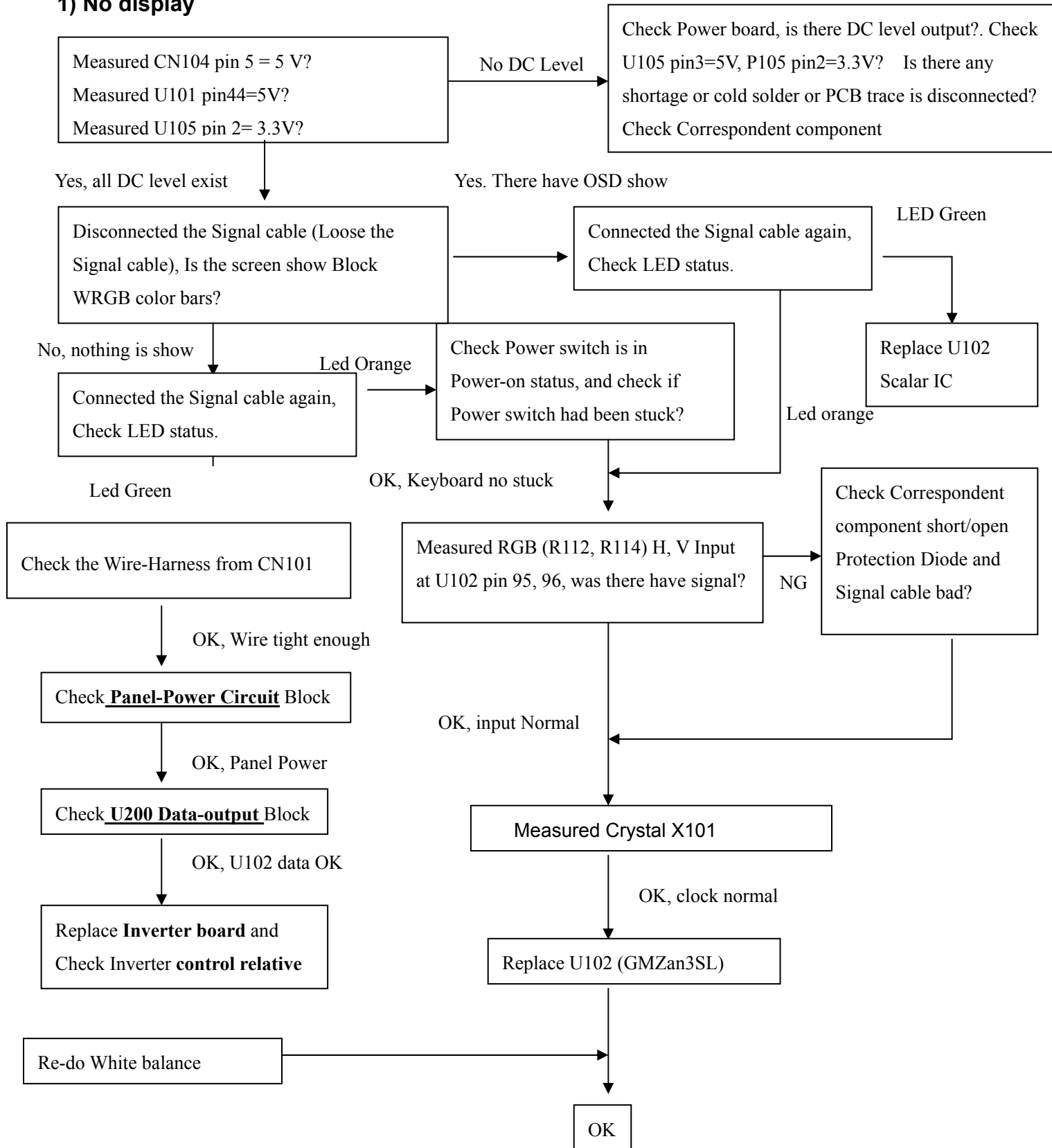
### 8.1 Equipments and Tools Requirement

- Voltage meter.
- Oscilloscope.
- Pattern Generator.
- DDC Tool with a IBM Compatible Computer.
- Alignment Tool.
- LCD Color Analyzer.
- Service Manual.
- User Manual.

## 8.2 Trouble Shooting

### 8.2.1 Main Board

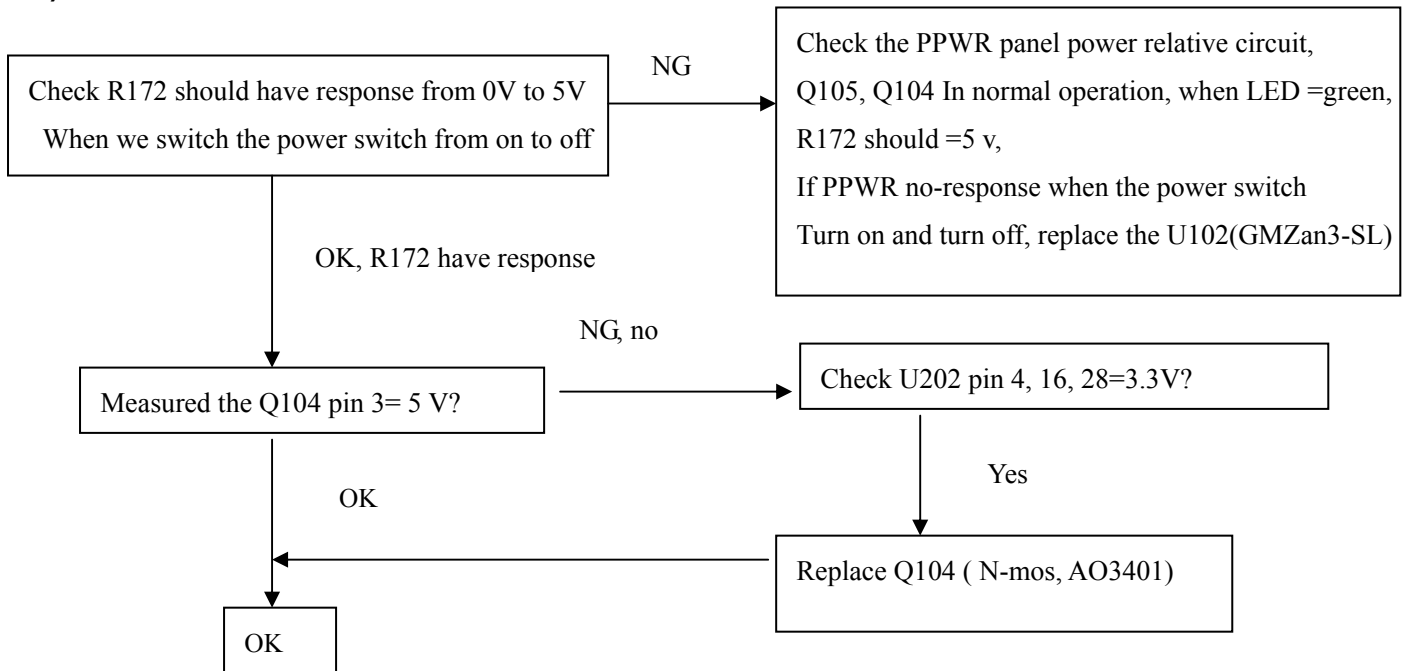
#### 1) No display



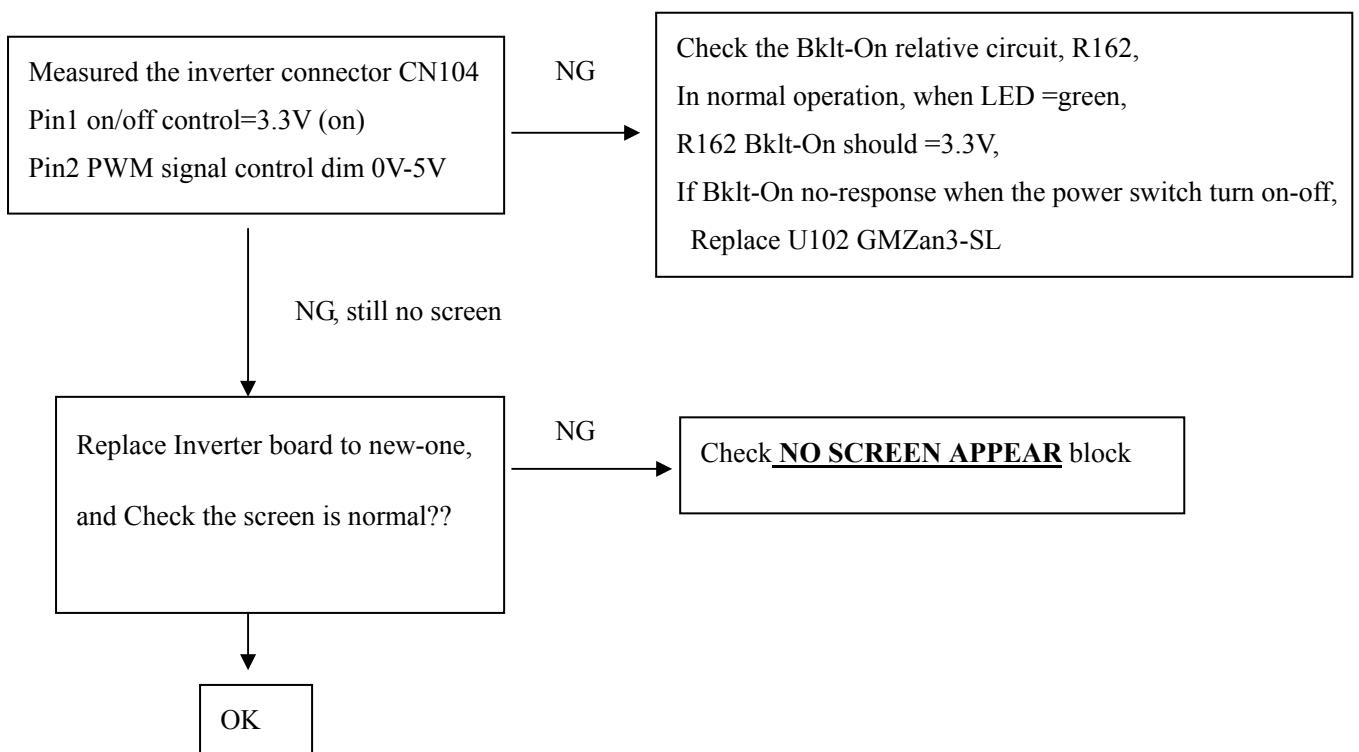
Note: 1. If Replace “**MAIN-BOARD**”, Please re-do “DDC-content” programmed & “WHITE-Balance”.

2. If Replace “**Inverter Board**” only, Please re-do “WHITE-Balance”

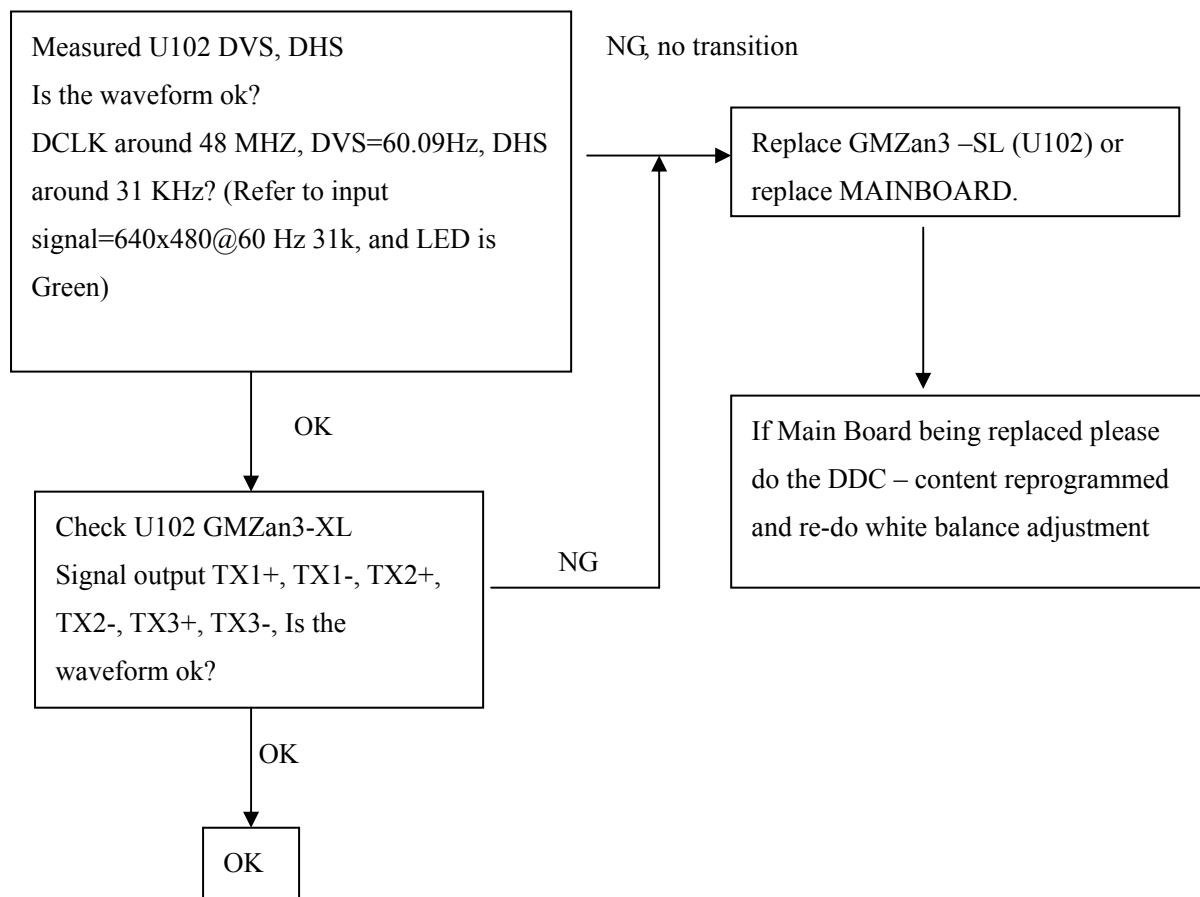
## 2) PANEL-POWER CIRCUIT



## 3) INVERTER CONTROL RELATIVE CIRCUIT

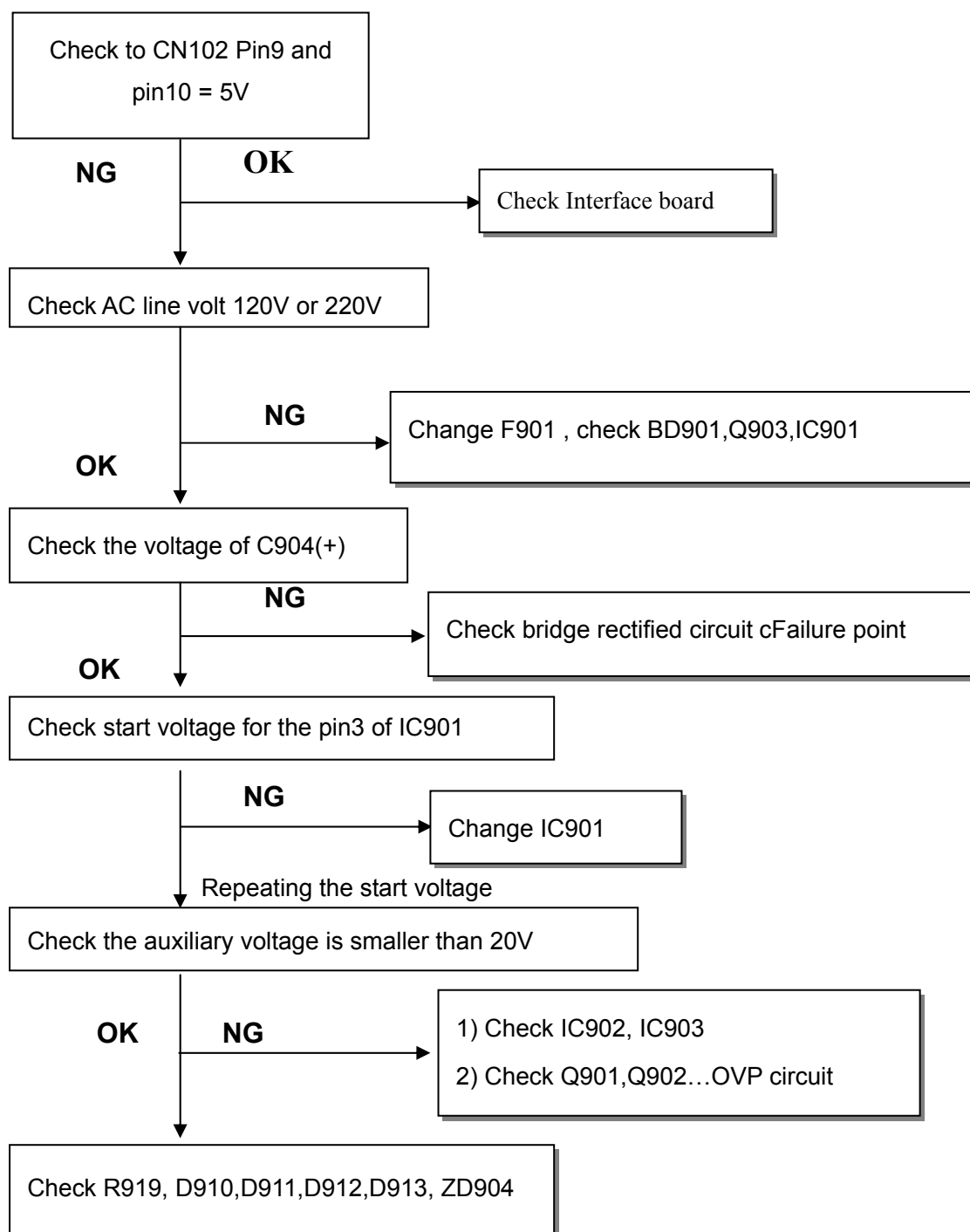


#### 4) U102-DATA OUTPUT

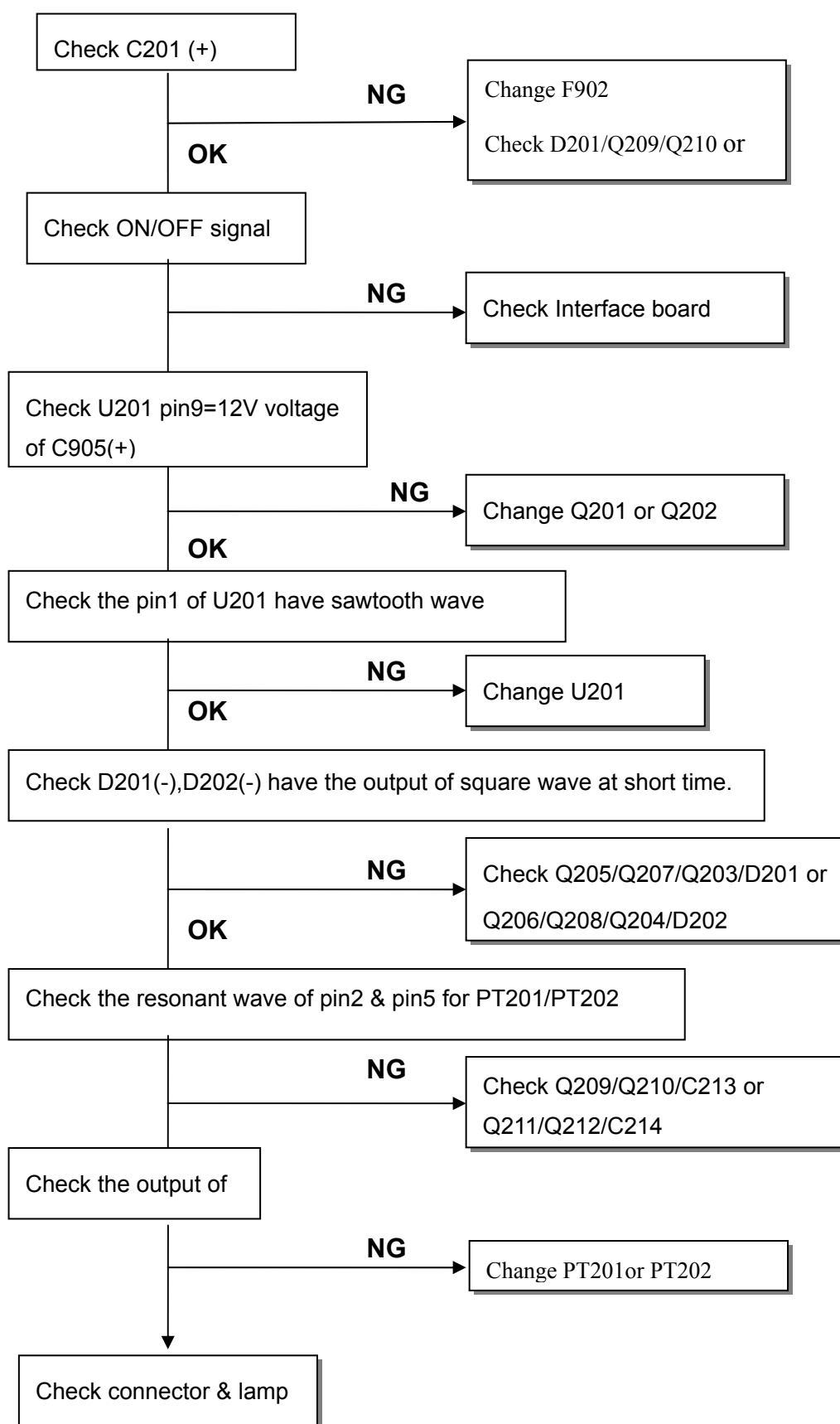


## 8.2.2 Power/Inverter Board

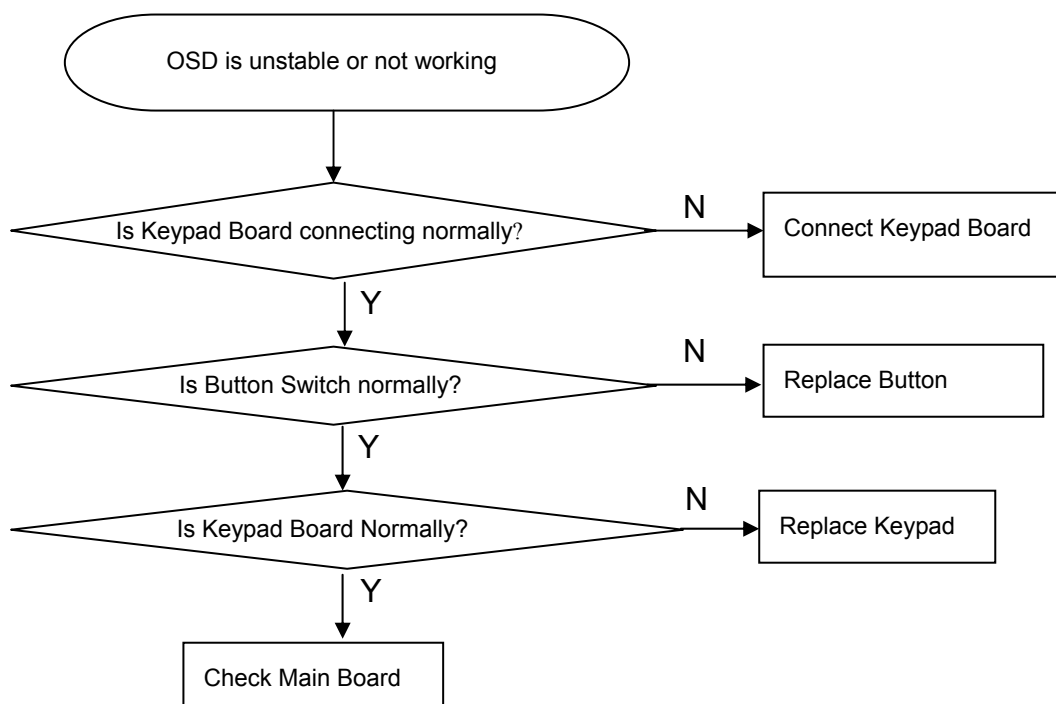
## 1.) No power



## 2.) W / LED, No Backlight



### 8.2.3 Keypad Board



## 9. White-Balance, Luminance adjustment

Approximately 2 Hours should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance, please setting the Chroma-7120 **MEM. Channel 1 to 6500<sup>0</sup>K** colors, **MEM. Channel 3 to 9300<sup>0</sup>K** colors, **MEM. Channel 1 to 5700<sup>0</sup>K** (our 9300 parameter is  $x = 296 \pm 10$ ,  $y = 311 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$ , 6500 parameter is  $x = 313 \pm 10$ ,  $y = 329 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$ , and 5700 parameter is  $x = 328 \pm 10$ ,  $y = 344 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$ )

How to setting MEM.channel you can reference to chroma 7120 user guide or simple use “**SC**” key and “**NEXT**” key to modify xyY value and use “**ID**” key to modify the TEXT description

Following is the procedure to do white-balance adjust

Press MENU and AUTO-ADJUST button during press Power button will activate the factory mode,

### Gain adjustment:

Move cursor to “-Factory Setting-” and press MENU key to enter this sub-menu;

Move cursor to “ Factory” and press MENU key;

Move cursor to “ Auto Level” and press MENU key to adjust Gain and Offset automatically;

#### a. Adjust sRGB (6500<sup>0</sup>K) color-temperature

- 1 Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
- 2 Switch the MEM.channel to Channel 01 (with up or down arrow on chroma 7120)
- 3 The LCD-indicator on chroma 7120 will show  $x = 313 \pm 10$ ,  $y = 329 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$
- 4 In **sRGB** sub-menu, adjust **C** to 192, adjust **L** to 230 ;
- 5 Adjust the RED on OSD window until chroma 7120 indicator reached the value  $R=100$
- 6 Adjust the GREEN on OSD, until chroma 7120 indicator reached  $G=100$
- 7 Adjust the BLUE on OSD, until chroma 7120 indicator reached  $B=100$
- 8 repeat above procedure ( item 5,6,7) until chroma 7120 RGB value meet the tolerance  $=100 \pm 2$

#### b. Adjust Color1 (9300<sup>0</sup>K) color-temperature

- 9 Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
- 10 Switch the MEM.channel to Channel 03 ( with up or down arrow on chroma 7120 )
- 11 The LCD-indicator on chroma 7120 will show  $x = 296 \pm 10$ ,  $y = 311 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$
- 12 In **Color1** sub-menu, adjust **C** to 192, adjust **L** to 230 ;
- 13 Adjust the RED on OSD window until chroma 7120 indicator reached the value  $R=100$
- 14 Adjust the GREEN on OSD, until chroma 7120 indicator reached  $G=100$
- 15 Adjust the BLUE on OSD, until chroma 7120 indicator reached  $B=100$
- 16 repeat above procedure ( item 5,6,7) until chroma 7120 RGB value meet the tolerance  $=100 \pm 2$

c. Adjust **Color2** (5700<sup>0</sup>K) color-temperature

- 17 Switch the chroma-7120 to **RGB-mode** (with press “MODE” button)
  - 18 Switch the MEM.channel to Channel 03 (with up or down arrow on chroma 7120)
  - 19 The LCD-indicator on chroma 7120 will show  $x = 328 \pm 10$ ,  $y = 344 \pm 10$ ,  $Y = 180 \pm 10 \text{ cd/m}^2$
  - 20 In **Color2** sub-menu, adjust **C** to 192, adjust **L** to 230 ;
  - 21 Adjust the RED on OSD window until chroma 7120 indicator reached the value  $R=100$
  - 22 Adjust the GREEN on OSD, until chroma 7120 indicator reached  $G=100$
  - 23 Adjust the BLUE on OSD, until chroma 7120 indicator reached  $B=100$
  - 24 repeat above procedure ( item 5,6,7) until chroma 7120 RGB value meet the tolerance  $=100 \pm 2$
  - 25 Move cursor to “ Exit/Save” sub-menu and press MENU key to save adjust value and exit;
- Turn the POWER-button off to on to quit from factory mode.**

**10. EDIT Content****D-SUB Connector (Analog)**

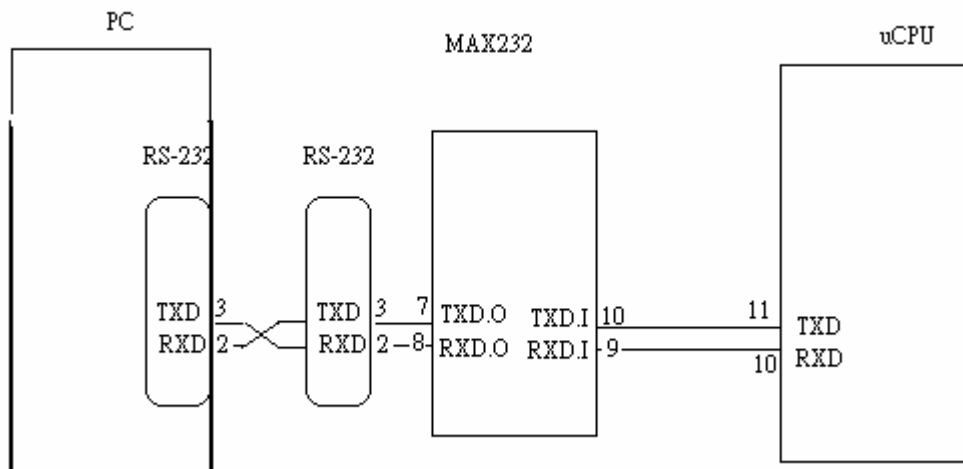
|      | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | A  | B  | C  | D  | E  | F  |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0:   | 00 | FF | FF | FF | FF | FF | FF | 00 | 10 | AC | 0B | A0 | 43 | 31 | 30 | 30 |
| 16:  | 34 | 0D | 01 | 03 | 68 | 22 | 1B | 78 | 2A | 2D | 90 | A4 | 57 | 4A | 9C | 25 |
| 32:  | 11 | 50 | 54 | A5 | 4B | 00 | 71 | 4F | 81 | 80 | 01 | 01 | 01 | 01 | 01 | 01 |
| 48:  | 01 | 01 | 01 | 01 | 01 | 01 | 30 | 2A | 00 | 98 | 51 | 00 | 2A | 40 | 30 | 70 |
| 64:  | 13 | 00 | 78 | 2D | 11 | 00 | 00 | 1E | 00 | 00 | 00 | FF | 00 | 36 | 34 | 31 |
| 80:  | 38 | 30 | 33 | 39 | 43 | 30 | 30 | 31 | 43 | 0A | 00 | 00 | 00 | FD | 00 | 38 |
| 96:  | 4C | 1F | 50 | 0E | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 112: | 00 | 44 | 45 | 4C | 4C | 20 | 45 | 31 | 37 | 33 | 46 | 50 | 63 | 20 | 00 | 49 |

Note: Byte 0C, 0D, 0E, 0F means Serial No. Byte 10, 11 means Manufacture Time. Byte 7F means checksum

## 11. ISP (In System Program) User Manual

### 11.1. Connect ISP Writer preparation action :

Connect RXD and TXD of PC to RXD (P3.0) and TXD (P3.1) of CPU through RS-232.



- a. There are two ways to entering Reboot Mode. The settings for Reboot Mode is as follow :

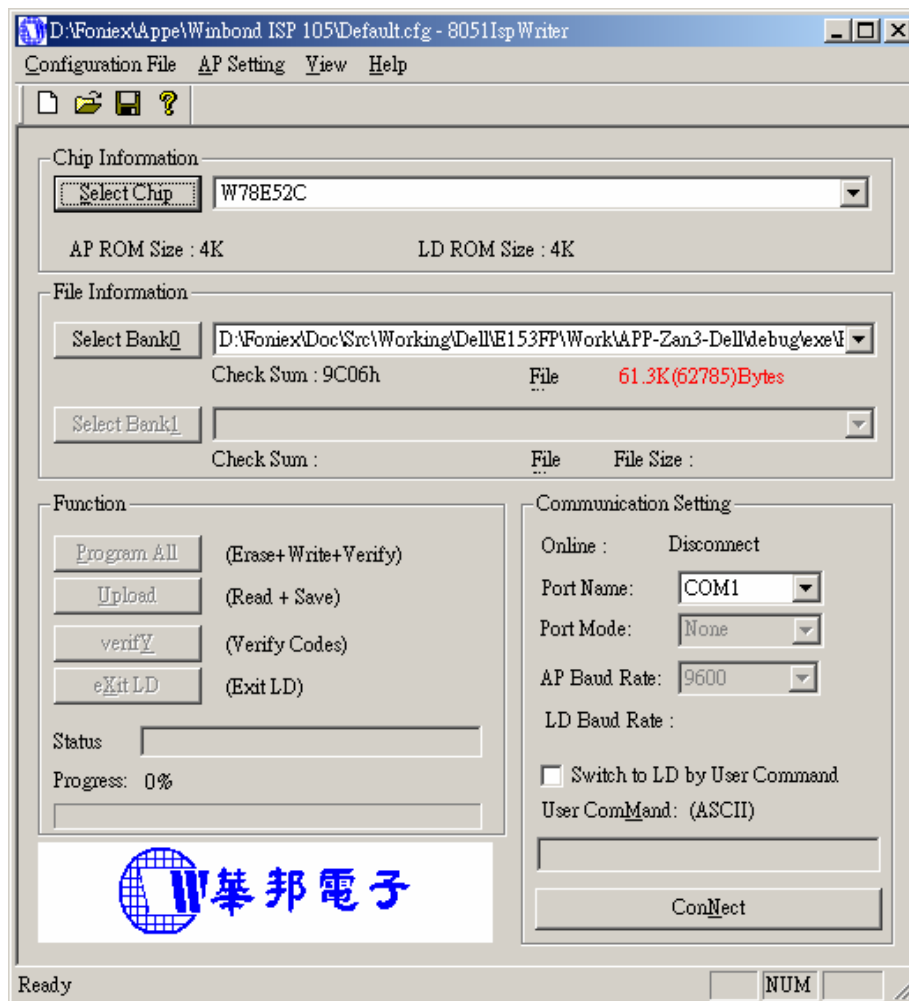
☆Both P2.6 、P2.7 are LOW and RESET pin is HI.

☆P4.3 is LOW and RESET pin is HI .

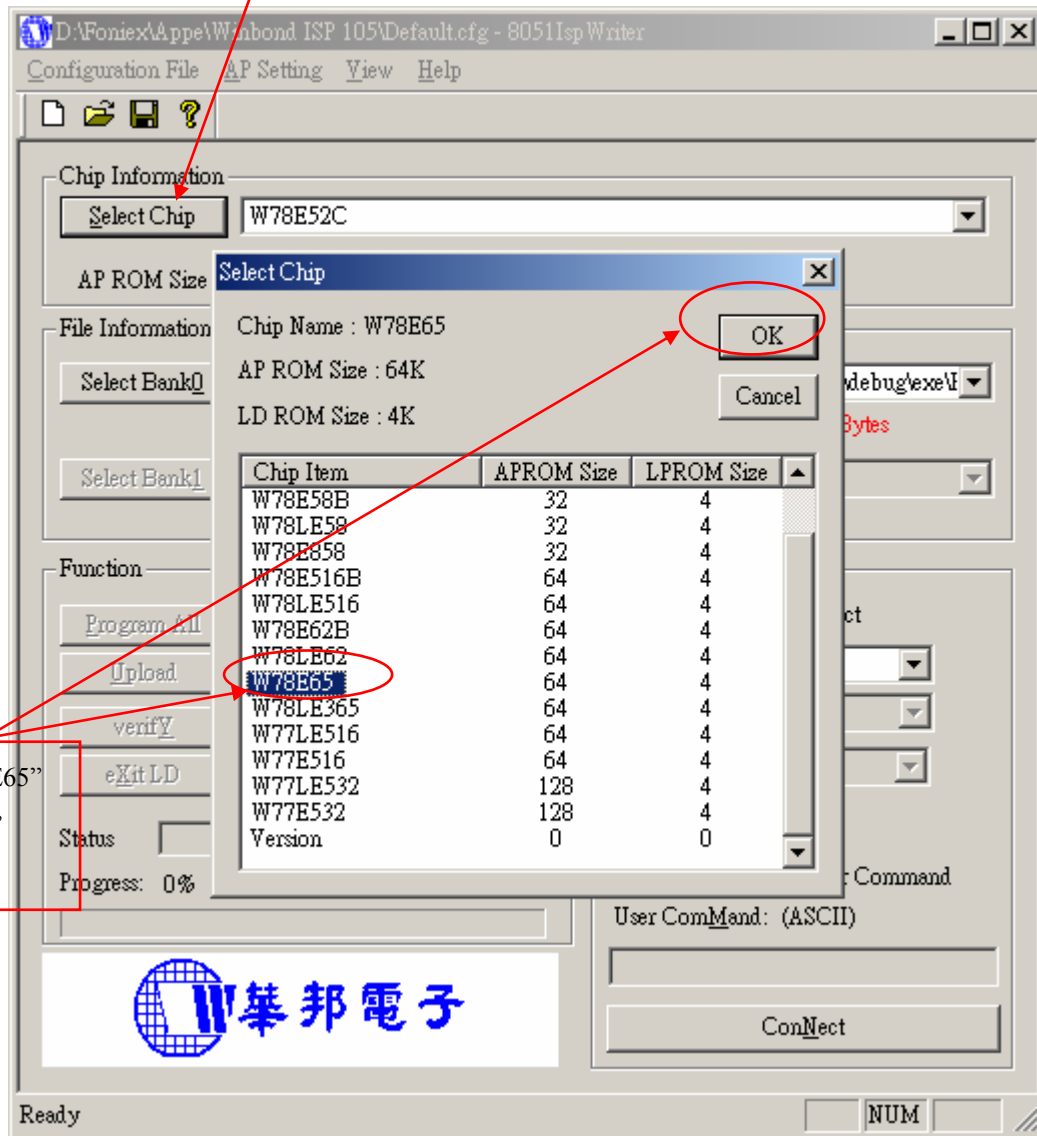
### 11.2. To Use ISP WRITER

Press the “—” key at front bezel and plug the AC power cord in, then the MCU enter ISP mode;

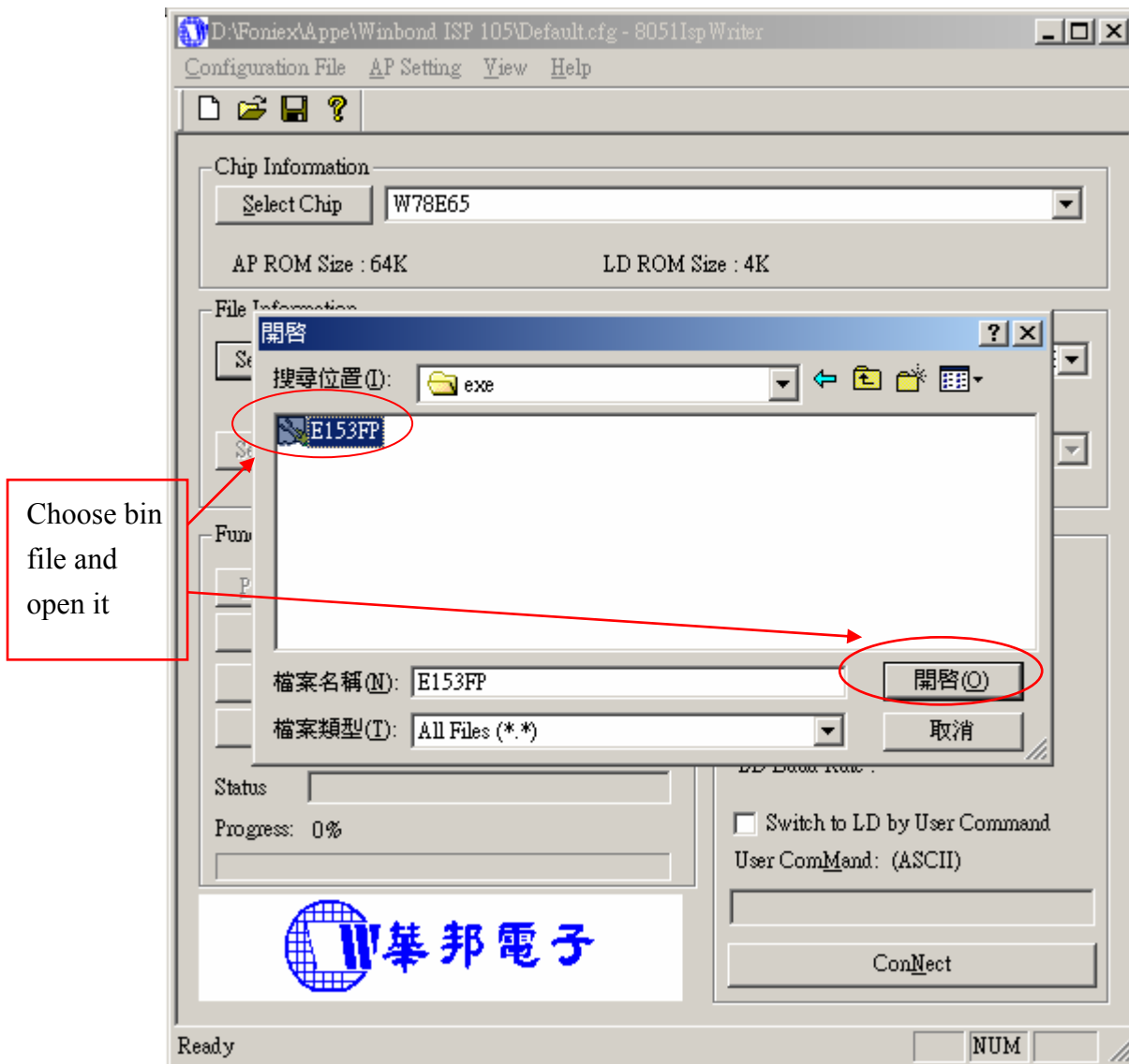
- a. You will enter the window as follow after executing the ispwriter.exe file.



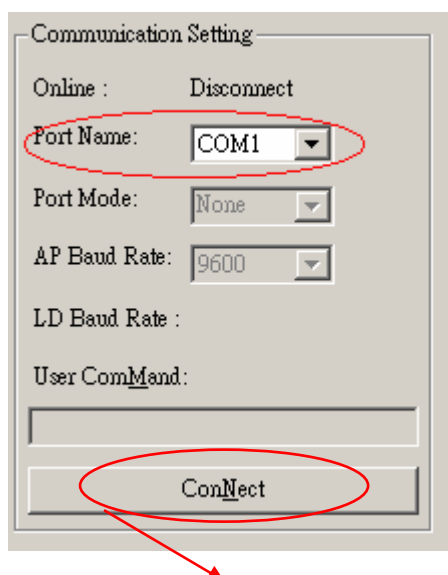
- b. Click the “Select Chip” button, and choose the type you’re going to program.



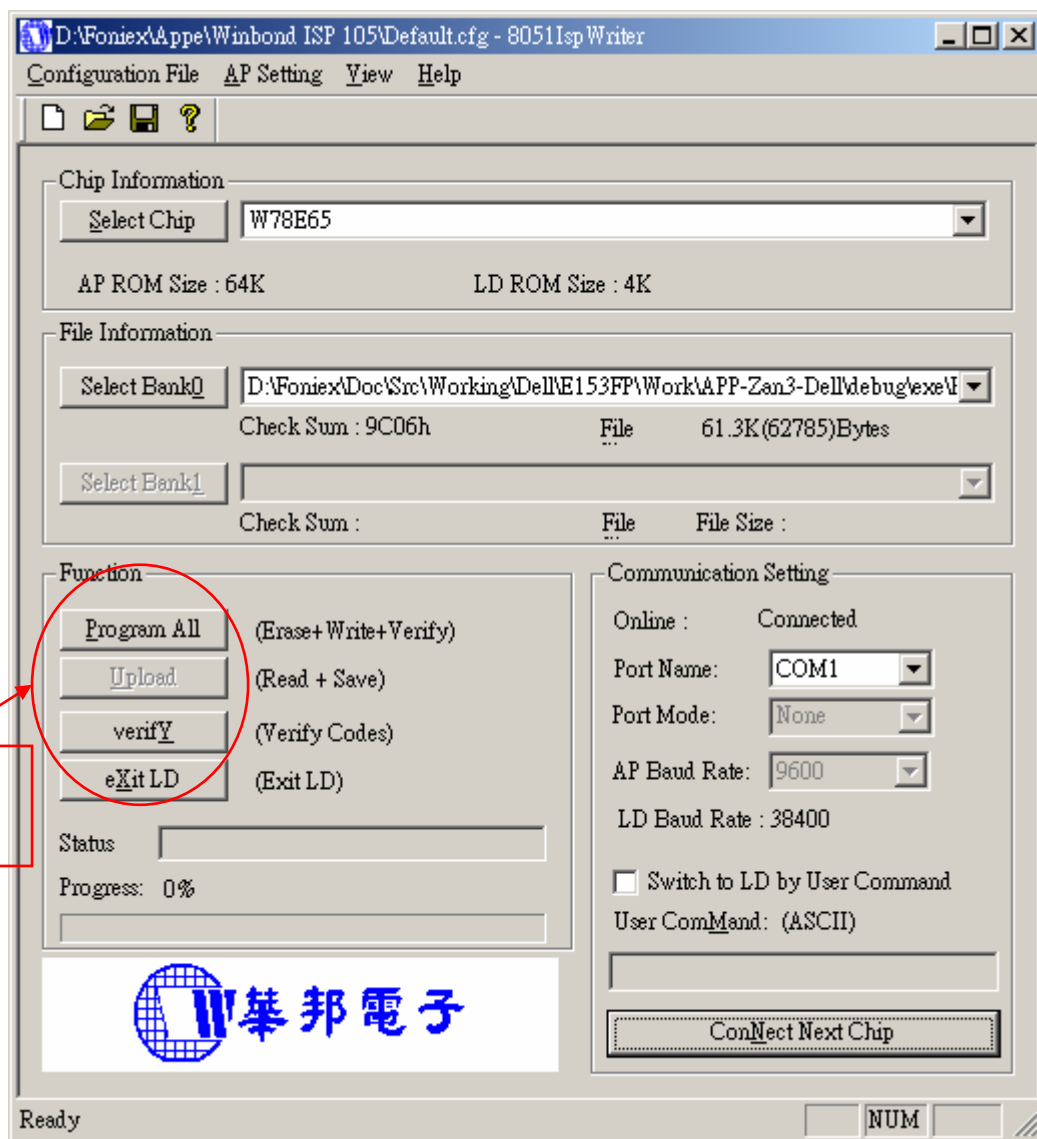
- c. Click the “Select Bank0” button and selecting a file which a binary Format required.



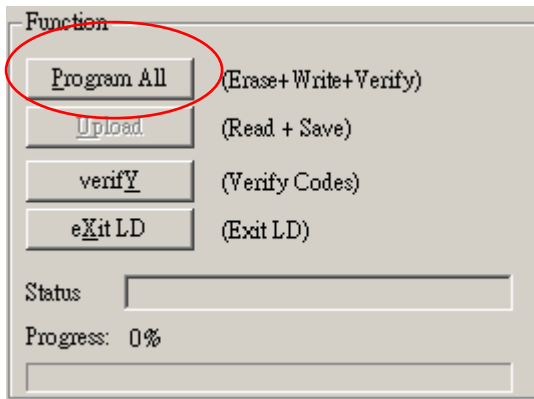
d. Select the communication Setting: Port Name



e. Click the “ConNect” button.

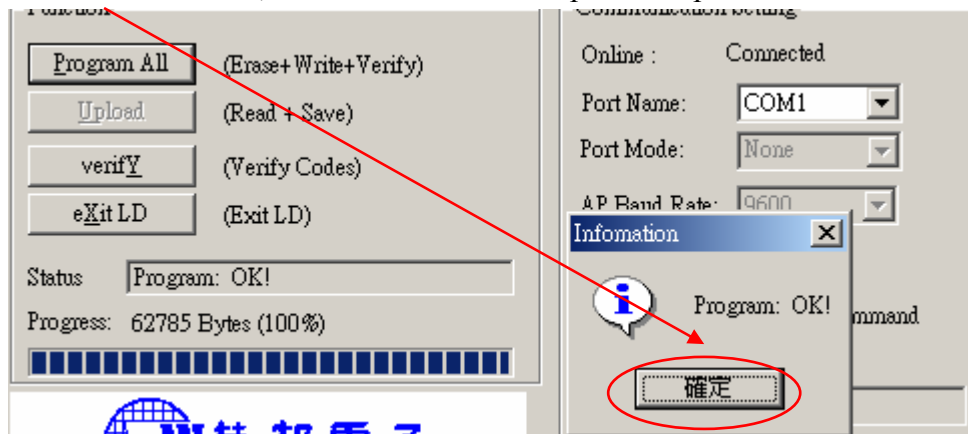


- f. Click “Program all” to start programming.

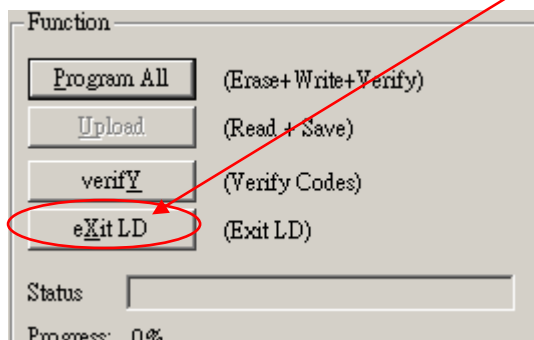


### 11.3. Executing ISP

- a. Click “Program All” button that will execute erase and program and verify. Then you can get the window as follow, and click “OK” to complete ISP process.



- b. Complete the ISP process, click “eXit LD” button to reset monitor.



## 12. Bill Of Material List

| Location | Part Number       | Description           | Qty.   | Unit |
|----------|-------------------|-----------------------|--------|------|
|          | CBPC780KGLDD      | CONVERSION BOARD      | 1      | PCS  |
|          | KEPC780KED1       | KEY BOARD             | 1      | PCS  |
|          | PWPC1742LGD1      | POWER BOARD           | 1      | PCS  |
|          | 11L6036 1         | SPACER SUPPORT SCC-24 | 1      | PCS  |
|          | 15L8054 2         | MAIN FRAME            | 1      | PCS  |
|          | 23L3178700 1A     | LOGO                  | 1      | PCS  |
|          | 33L4669 GV C      | POWER BUTTON          | 1      | PCS  |
|          | 33L4670 GV T      | KEY PAD               | 1      | PCS  |
|          | 34L1367AY2 T      | BEZEL                 | 1      | PCS  |
|          | 34L1368 Y2 T      | REAR COVER            | 1      | PCS  |
|          | 40L 152509        | RECYCLE LABEL         | 0      | PCS  |
|          | 40L 152512        | RECYCLE LABEL         | 0      | PCS  |
|          | 40L 154501 16444  | HI-POT                | 1      | PCS  |
|          | 40L 190700 1A6310 | ID LABEL              | 1      | PCS  |
|          | 40L 459700 1A6444 | DELL S/N LABEL        | 1      | PCS  |
|          | 40L 581 267046036 | SHIPPING LABEL        | 0.01   | PCS  |
|          | 40L 581700 3A6444 | CARTON LABEL          | 1      | PCS  |
|          | 41L7800700 2A     | QSG                   | 1      | PCS  |
|          | 44L3733 1         | EPS                   | 1      | PCS  |
|          | 44L3733 2         | EPS                   | 1      | PCS  |
|          | 44L3733700 1A     | CARTON                | 1      | PCS  |
|          | 44L6000 4 6B      | SPACE PAPER           | 0.0077 | PCS  |
|          | 45L 77512 F6863   | BARCODE RIBBOR        | 18     | MM   |
|          | 45L 88607DE6      | PE BAG FOR MONITOR    | 1      | PCS  |
|          | 52L 1186          | SMALL TAPE            | 8      | CM   |
|          | 52L6020 2DE4      | FILM PROTECT          | 1      | PCS  |
|          | 52L6022 1500      | SMALL TAPE            | 12     | CM   |
|          | 70L1700700 1A     | CD MANUAL             | 1      | PCS  |
|          | 85L 672 1         | SHIELD                | 1      | PCS  |
|          | 85L 673 1         | SHIELD-INVERTER       | 1      | PCS  |
|          | 89L1738GAA 16     | SIGNAL CABLE          | 1      | PCS  |
|          | 89L401A18NHRA     | POWER CORD            | 1      | PCS  |
|          | 95L8018 30529     | WIRE HARNESS          | 1      | PCS  |
|          | M1L1140 6128      | SCREW 4X6             | 1      | PCS  |
|          | M1L1430 6128      | SCREW M3X6            | 4      | PCS  |
|          | M1L1430 6128      | SCREW M3X6            | 5      | PCS  |
|          | M1L1430 6128      | SCREW M3X6            | 3      | PCS  |

|            |                |                          |       |       |
|------------|----------------|--------------------------|-------|-------|
|            | M1L2640 10225  | SCREW                    | 4     | PCS   |
|            | Q1L 330 8 47   | SCREW 3X8mm              | 3     | PCS   |
|            | 705L 780 87 DL | CN901 ASS'Y              | 1     | PCS   |
|            | 705L780KB34 79 | BACK COVER ASS'Y         | 1     | PCS   |
|            | 750LLG70E01 3  | LVDS PANEL LM170E01-A5N  | 1     | PCS   |
|            | 44L3231511     | 旧笨碼粗                     | 2     | PCS   |
|            | 44L3231512     | 旧笨碼粗                     | 3     | PCS   |
| -----      | -----          | -----                    | ----- | ----- |
| PARENT NO: | CBPC780KGLDD   | CONVERSION BOARD         |       |       |
| -----      | -----          | -----                    | ----- | ----- |
|            | AIC780KSLDD    | MAIN BOARD               | 1     | PCS   |
| CN101      | 33L3802 8H     | WAFER 8P RIGHT ANGLE PI  | 1     | PCS   |
| CN104      | 33L8013 6 H    | 6P PLUG R/A              | 1     | PCS   |
| CN103      | 33L8027 24 H   | CONN W TO B12P*2 P*2.0   | 1     | PCS   |
| U101A      | 56L1125137LD3  | W78E65P-40 BY WINBOND    | 1     | PCS   |
| C158       | 67L309V101 3   | 100UF 16V                | 1     | PCS   |
| C162       | 67L309V101 3   | 100UF 16V                | 1     | PCS   |
| C122       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C129       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C136       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C140       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C143       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C172       | 67L309V220 3   | 22UF +-20% 16V           | 1     | PCS   |
| C169       | 67L309V229 7   | 2.2UF +-20% 50V          | 1     | PCS   |
| C165       | 67L309V470 3   | 47UF 16V 85C             | 1     | PCS   |
| C166       | 67L309V470 3   | 47UF 16V 85C             | 1     | PCS   |
| C171       | 67L309V470 3   | 47UF 16V 85C             | 1     | PCS   |
| CN100      | 88L 35315F H   | D-SUB 15PIN              | 1     | PCS   |
| X101       | 93L 22 53      | CRYSTAL 14.318MHzHC-49U  | 1     | PCS   |
| -----      | -----          | -----                    | ----- | ----- |
| PARENT NO: | AIC780KSLDD    | MAIN BOARD               |       |       |
| -----      | -----          | -----                    | ----- | ----- |
| U102       | 56L 562 58     | GMZAN3/SL (AC)           | 1     | PCS   |
| U106       | 56L 563 27     | AIC1117A-18CY SOT-223    | 1     | PCS   |
| U106       | 56L 56327A     | AP1117E18A SOT223-3L     | 0     | PCS   |
| U105       | 56L 585 4      | AIC1117-33CY             | 1     | PCS   |
| U105       | 56L 585 4A     | AP1117E33A               | 0     | PCS   |
| U103       | 56L1133 34     | M24C02-WMN6T SMT         | 1     | PCS   |
| U104       | 56L1133 56     | M24C16-WMN6T/W S0-8      | 1     | PCS   |
| Q101       | 57L 417 4      | PMBS3904/PHILIPS-SMT (04 | 1     | PCS   |

|       |              |                         |   |     |
|-------|--------------|-------------------------|---|-----|
| Q102  | 57L 417 4    | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q105  | 57L 417 4    | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q104  | 57L 763 1    | A03401 SOT23 BY AOS(A1) | 1 | PCS |
| Q104  | 57L 763 1A   | AP2305N                 | 0 | PCS |
| RP103 | 61L 125472 8 | CHIP AR 8P4R 4.7K OHM+- | 1 | PCS |
| FB104 | 61L0603000   | CHIPR 00HM +-5% 1/10W   | 1 | PCS |
| R142  | 61L0603000   | CHIPR 00HM +-5% 1/10W   | 1 | PCS |
| R146  | 61L0603000   | CHIPR 00HM +-5% 1/10W   | 1 | PCS |
| R169  | 61L0603000   | CHIPR 00HM +-5% 1/10W   | 1 | PCS |
| R102  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R109  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R110  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R111  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R119  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R120  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R125  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R126  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R128  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R129  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R130  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R137  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R139  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R141  | 61L0603101   | CHIPR 100 OHM +-5% 1/10 | 1 | PCS |
| R164  | 61L0603102   | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R165  | 61L0603102   | CHIPR 1K OHM +-5% 1/10W | 1 | PCS |
| R171  | 61L0603104   | CHIPR 100K OHM +-5% 1/1 | 1 | PCS |
| FB101 | 61L0603220   | CHIPR 22 OHM+-5% 1/10W  | 1 | PCS |
| FB102 | 61L0603220   | CHIPR 22 OHM+-5% 1/10W  | 1 | PCS |
| FB103 | 61L0603220   | CHIPR 22 OHM+-5% 1/10W  | 1 | PCS |
| R121  | 61L0603220   | CHIPR 22 OHM+-5% 1/10W  | 1 | PCS |
| R157  | 61L0603221   | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R158  | 61L0603221   | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R159  | 61L0603221   | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R160  | 61L0603221   | CHIPR 220 OHM+-5% 1/10W | 1 | PCS |
| R115  | 61L0603222   | CHIPR 2.2K OHM+-5% 1/10 | 1 | PCS |
| R116  | 61L0603222   | CHIPR 2.2K OHM+-5% 1/10 | 1 | PCS |
| R131  | 61L0603272   | CHIP 2.7K OHM 1/10W     | 1 | PCS |
| R132  | 61L0603272   | CHIP 2.7K OHM 1/10W     | 1 | PCS |
| R112  | 61L0603470   | CHIPR 47 OHM +-5% 1/10W | 1 | PCS |
| R114  | 61L0603470   | CHIPR 47 OHM +-5% 1/10W | 1 | PCS |

|      |               |                         |   |     |
|------|---------------|-------------------------|---|-----|
| R122 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R123 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R127 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R133 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R134 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R135 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R143 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R144 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R147 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R148 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R154 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R155 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R161 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R162 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R163 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R168 | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1 | PCS |
| R117 | 61L0603473    | CHIP 47K OHM 1/10W      | 1 | PCS |
| R118 | 61L0603473    | CHIP 47K OHM 1/10W      | 1 | PCS |
| R156 | 61L0603473    | CHIP 47K OHM 1/10W      | 1 | PCS |
| R106 | 61L0603750 9F | 750HM 1% 1/10W          | 1 | PCS |
| R107 | 61L0603750 9F | 750HM 1% 1/10W          | 1 | PCS |
| R108 | 61L0603750 9F | 750HM 1% 1/10W          | 1 | PCS |
| R172 | 61L1206331    | CHIP 3300HM 5% 1/4W     | 1 | PCS |
| C147 | 65L0603100 31 | CHIP 10PF+-0.5PF 50V NP | 1 | PCS |
| C148 | 65L0603100 31 | CHIP 10PF+-0.5PF 50V NP | 1 | PCS |
| C152 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C153 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C154 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C155 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C156 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C157 | 65L0603102 32 | 1000PF +-10% 50V X7R    | 1 | PCS |
| C119 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C123 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C124 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C125 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C126 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C127 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C128 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C130 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C131 | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |

|       |               |                         |   |     |
|-------|---------------|-------------------------|---|-----|
| C132  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C133  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C134  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C135  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C137  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C138  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C139  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C141  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C142  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C144  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C145  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C149  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C150  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C159  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C163  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C164  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C167  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C168  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C173  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C174  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C175  | 65L0603104 12 | 0.1UF +-10% 16V X7R     | 1 | PCS |
| C104  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| C106  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| C108  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| C112  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| C113  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| C114  | 65L0603473 32 | CHIP 0.047UF 50V X7R    | 1 | PCS |
| FB105 | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L101  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L102  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L103  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L104  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L105  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| L106  | 71L 56K121    | CHIP BEAD 120OHM 6A     | 1 | PCS |
| R101  | 71L 59Q101    | CHIP BEAD 100 OHM       | 1 | PCS |
| R104  | 71L 59Q101    | CHIP BEAD 100 OHM       | 1 | PCS |
| R105  | 71L 59Q101    | CHIP BEAD 100 OHM       | 1 | PCS |
| U101  | 87L 202 44    | PLCC SMT CONN PD41C-441 | 1 | PCS |
| D102  | 93L 39146     | LL5232B SMT             | 0 | PCS |
| D103  | 93L 39146     | LL5232B SMT             | 0 | PCS |

|            |               |                        |       |       |
|------------|---------------|------------------------|-------|-------|
| D104       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D107       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D108       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D109       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D111       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D112       | 93L 39146     | LL5232B SMT            | 0     | PCS   |
| D102       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D103       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D104       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D107       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D108       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D109       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D111       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D112       | 93L 39149     | MLL5232B BY FULL POWER | 1     | PCS   |
| D110       | 93L 60230     | BAT54C (L43)           | 1     | PCS   |
| D101       | 93L 64 33     | BAV99                  | 0     | PCS   |
| D105       | 93L 64 33     | BAV99                  | 0     | PCS   |
| D106       | 93L 64 33     | BAV99                  | 0     | PCS   |
| D101       | 93L 6433P     | BAV99                  | 1     | PCS   |
| D105       | 93L 6433P     | BAV99                  | 1     | PCS   |
| D106       | 93L 6433P     | BAV99                  | 1     | PCS   |
|            | 715L1280 D    | DELL MAIN BOARD        | 1     | PCS   |
| -----      | -----         | -----                  | ----- | ----- |
| PARENT NO: | KEPC780KED1   | KEY BOARD              |       |       |
| -----      | -----         | -----                  | ----- | ----- |
| R101       | 61L 60210152T | 1000HM +- 5% 1/6W      | 1     | PCS   |
| SW101      | 77L 600 4 HJ  | TACT SWITCH TSPE-1     | 1     | PCS   |
| SW102      | 77L 600 4 HJ  | TACT SWITCH TSPE-1     | 1     | PCS   |
| SW103      | 77L 600 4 HJ  | TACT SWITCH TSPE-1     | 1     | PCS   |
| SW104      | 77L 600 4 HJ  | TACT SWITCH TSPE-1     | 1     | PCS   |
| DP101      | 81L 12 1A GP  | LED                    | 1     | PCS   |
| CN101      | 95L8014 8 10  | WURE HARNESS           | 1     | PCS   |
|            | 715L1153 1A   | PCB                    | 1     | PCS   |
| -----      | -----         | -----                  | ----- | ----- |
| PARENT NO: | PWPC1742LGD1  | POWER BOARD            |       |       |
| -----      | -----         | -----                  | ----- | ----- |
|            | PW1742LGD1AI  | POWER BOARD            | 1     | PCS   |
|            | PW1742LGD1SMT | POWER BOARD            | 1     | PCS   |
| CON201     | 33L8021 2D E  | WAFER                  | 0     | PCS   |
| CON202     | 33L8021 2D E  | WAFER                  | 0     | PCS   |

|        |               |                         |   |     |
|--------|---------------|-------------------------|---|-----|
| CON203 | 33L8021 2D E  | WAFER                   | 0 | PCS |
| CON204 | 33L8021 2D E  | WAFER                   | 0 | PCS |
| CON201 | 33L8021 2D AC | CONN. 2P R/A 87210-0236 | 1 | PCS |
| CON202 | 33L8021 2D AC | CONN. 2P R/A 87210-0236 | 1 | PCS |
| CON203 | 33L8021 2D AC | CONN. 2P R/A 87210-0236 | 1 | PCS |
| CON204 | 33L8021 2D AC | CONN. 2P R/A 87210-0236 | 1 | PCS |
| CN901  | 33L8029 4A    | PLUG                    | 1 | PCS |
|        | 40L 45762420A | ID LABEL                | 1 | PCS |
| IC902  | 56L 139 3B    | PC123 Y82               | 1 | PCS |
| IC901  | 56L 379 32    | SG6841D BY SYSTEM       | 1 | PCS |
| Q209   | 57L 761 6     | 2SC5706 DIP SANYO       | 1 | PCS |
| Q210   | 57L 761 6     | 2SC5706 DIP SANYO       | 1 | PCS |
| Q211   | 57L 761 6     | 2SC5706 DIP SANYO       | 1 | PCS |
| Q212   | 57L 761 6     | 2SC5706 DIP SANYO       | 1 | PCS |
| NR901  | 61L 58120 WT  | NTCR 120HM 20% 2A SCK-1 | 1 | PCS |
| C903   | 63L 107474 5S | 0.47UF +-10% 250VAC     | 0 | PCS |
| C903   | 63L 107474 FS | 0.47UF +-10% 250VAC     | 0 | PCS |
| C903   | 63L 107474 HS | 0.47UF +-10% 250VAC     | 0 | PCS |
| C903   | 63L 10747410S | 0.47UF +-10% 250VAC     | 1 | PCS |
| C213   | 63L210J1842A2 | PMS 0.18UF 250V         | 1 | PCS |
| C214   | 63L210J1842A2 | PMS 0.18UF 250V         | 1 | PCS |
| C213   | 64L180J184AAT | CAP 0.18UF 160V R79     | 0 | PCS |
| C214   | 64L180J184AAT | CAP 0.18UF 160V R79     | 0 | PCS |
| C226   | 65L 3J2206EM  | 22PF 5% 3KV MURATA      | 0 | PCS |
| C227   | 65L 3J2206EM  | 22PF 5% 3KV MURATA      | 0 | PCS |
| C228   | 65L 3J2206EM  | 22PF 5% 3KV MURATA      | 0 | PCS |
| C229   | 65L 3J2206EM  | 22PF 5% 3KV MURATA      | 0 | PCS |
| C226   | 65L 3J2206ET  | 22PF 5% 3KV TDK         | 1 | PCS |
| C227   | 65L 3J2206ET  | 22PF 5% 3KV TDK         | 1 | PCS |
| C228   | 65L 3J2206ET  | 22PF 5% 3KV TDK         | 1 | PCS |
| C229   | 65L 3J2206ET  | 22PF 5% 3KV TDK         | 1 | PCS |
| C901   | 65L305M1022B2 | 1000PF 400VAC/250VAC    | 0 | PCS |
| C902   | 65L305M1022B2 | 1000PF 400VAC/250VAC    | 0 | PCS |
| C901   | 65L305M1022EM | 1000PF +-20% 250VAC/400 | 1 | PCS |
| C902   | 65L305M1022EM | 1000PF +-20% 250VAC/400 | 1 | PCS |
| C913   | 65L306M3322F2 | 3300PF +-20% 400VAC Y1  | 1 | PCS |
| C912   | 65L306M4722B2 | 4700PF +-20% 400VAC Y1  | 1 | PCS |
| C922   | 67L215C102 3H | EC LESR 1000UF16V HERME | 1 | PCS |
| C923   | 67L215C102 3H | EC LESR 1000UF16V HERME | 1 | PCS |
| C922   | 67L215C102 3K | 1000UF/16V              | 0 | PCS |

|            |                |                          |       |       |
|------------|----------------|--------------------------|-------|-------|
| C923       | 67L215C102 3K  | 1000UF/16V               | 0     | PCS   |
| C904       | 67L215S10115H  | 100UF 450V 18*36 105 BY  | 0     | PCS   |
| C904       | 67L215S10115K  | 100UF 450V               | 0     | PCS   |
| C904       | 67L215S10115N  | 100UF+-20% 450V          | 1     | PCS   |
| C922       | 67L215S102 3N  | EC 105 16V 1000UF KZE16  | 0     | PCS   |
| C923       | 67L215S102 3N  | EC 105 16V 1000UF KZE16  | 0     | PCS   |
|            | 71L 55 2       | A FERRITE BEAD 6.5*5*1.7 | 1     | PCS   |
| L902       | 73L 174 26 LS  | COMMON CHOKE             | 0     | PCS   |
| L902       | 73L 174 26 T1  | LINE LILTER 0.45mm       | 1     | PCS   |
| L203       | 73L 174 30 H   | FILTER 500MH HA          | 0     | PCS   |
| L204       | 73L 174 30 H   | FILTER 500MH HA          | 0     | PCS   |
| L203       | 73L 174 30 LS  | FILTER                   | 0     | PCS   |
| L204       | 73L 174 30 LS  | FILTER                   | 0     | PCS   |
| L203       | 73L 174 30 YS  | FILTER                   | 1     | PCS   |
| L204       | 73L 174 30 YS  | FILTER                   | 1     | PCS   |
| L903       | 73L 253 91 L   | CHOKE BY LI TA           | 0     | PCS   |
| L904       | 73L 253 91 L   | CHOKE BY LI TA           | 0     | PCS   |
| L903       | 73L 253 91 LS  | CHOKE BY LI SHIN         | 1     | PCS   |
| L904       | 73L 253 91 LS  | CHOKE BY LI SHIN         | 1     | PCS   |
| L201       | 73L 253139 YL  | CHOKE                    | 1     | PCS   |
| L202       | 73L 253139 YL  | CHOKE                    | 1     | PCS   |
| PT201      | 80LL15T 7 DN   | X' FMR                   | 0     | PCS   |
| PT202      | 80LL15T 7 DN   | X' FMR                   | 0     | PCS   |
| PT201      | 80LL15T 7 YS   | X' FMR                   | 1     | PCS   |
| PT202      | 80LL15T 7 YS   | X' FMR                   | 1     | PCS   |
| T901       | 80LL17T 2 T    | X' FMR                   | 1     | PCS   |
| T901       | 80LL17T 2 LS   | ADAPTOR BY LISHIN        | 0     | PCS   |
| BD901      | 93L 50460 8    | BRIDGE 2KBP06M2A600V     | 1     | PCS   |
| CON102     | 95L8014 6 19   | PIN HEADER               | 1     | PCS   |
|            | 705L 560 57 DL | D910/D911 ASS' Y         | 1     | PCS   |
|            | 705L 560 61 05 | R917 ASS' Y              | 1     | PCS   |
|            | 705L 560 61 06 | R903 ASS' Y              | 1     | PCS   |
|            | 705L 780 57 DL | Q903 ASS' Y              | 1     | PCS   |
| -----      | -----          | -----                    | ----- | ----- |
| PARENT NO: | PW1742LGD1AI   | POWER BOARD              |       |       |
| -----      | -----          | -----                    | ----- | ----- |
| CN901      | 6L 31500       | EYELET                   | 2     | PCS   |
| C213       | 6L 31502       | 1.5MM RIVET              | 2     | PCS   |
| C214       | 6L 31502       | 1.5MM RIVET              | 2     | PCS   |
| C904       | 6L 31502       | 1.5MM RIVET              | 2     | PCS   |

|       |               |                 |   |     |
|-------|---------------|-----------------|---|-----|
| L902  | 6L 31502      | 1.5MM RIVET     | 4 | PCS |
| PT201 | 6L 31502      | 1.5MM RIVET     | 2 | PCS |
| PT202 | 6L 31502      | 1.5MM RIVET     | 2 | PCS |
| T901  | 6L 31502      | 1.5MM RIVET     | 4 | PCS |
|       | 715L1283 2    | POWER BOARD     | 1 | PCS |
| J001  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J002  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J003  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J004  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J005  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J006  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J007  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J008  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J009  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J010  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J011  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J012  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J014  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J015  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J016  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J017  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J018  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J020  | 95L 90 23     | TIN COATED      | 0 | PCS |
| J021  | 95L 90 23     | TIN COATED      | 0 | PCS |
| L205  | 95L 90 23     | TIN COATED      | 0 | PCS |
| L206  | 95L 90 23     | TIN COATED      | 0 | PCS |
| R927  | 95L 90 23     | TIN COATED      | 1 | PCS |
| R915  | 61L 17210052T | 100HM 5% 1/4W   | 1 | PCS |
| R929  | 61L 17210152T | 100 OHM 5% 1/4W | 1 | PCS |
| R224  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R225  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R226  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R227  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R228  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R229  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R230  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R231  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R232  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R233  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |
| R925  | 61L 17210252T | 1K OHM 5% 1/4W  | 1 | PCS |

|       |                  |                         |   |     |
|-------|------------------|-------------------------|---|-----|
| R926  | 61L 17210252T    | 1K OHM 5% 1/4W          | 1 | PCS |
| R916  | 61L 17210352T    | CFR 10KOHM +-5% 1/4W    | 1 | PCS |
| R924  | 61L 20024252T    | 2.4KOHM 1% 1/4W         | 1 | PCS |
| R922  | 61L 20033352T    | 33KOHM 1% 1/4W          | 1 | PCS |
| R923  | 61L 20036252T    | 3.6KOHM 1% 1/4W         | 1 | PCS |
| R201  | 61L 60224352T    | 24K OHM 5% 1/6W         | 1 | PCS |
| R920  | 61L175L47052T    | 470HM +-5% 1/2W         | 1 | PCS |
| R921  | 61L175L47052T    | 470HM +-5% 1/2W         | 1 | PCS |
| R904  | 61L214Y10552T    | 1M, 1/4W                | 1 | PCS |
| R905  | 61L214Y10552T    | 1M, 1/4W                | 1 | PCS |
| R906  | 61L214Y10552T    | 1M, 1/4W                | 1 | PCS |
| R907  | 61L214Y10552T    | 1M, 1/4W                | 1 | PCS |
| FB901 | 71L 55 29        | FERRITE BEAD            | 1 | PCS |
| ZD902 | 93L 39 5452T     | ZENER HZ12B2            | 1 | PCS |
| ZD903 | 93L 39 7752T     | ZENER HZ5C1             | 1 | PCS |
| D901  | 93L 6026T52T     | RECTIFIER DIODE FR107   | 1 | PCS |
| D902  | 93L 6038P52T     | PS102R                  | 1 | PCS |
| D205  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D206  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D207  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D208  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D209  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D210  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| D903  | 93L 64 1152T     | 1N4148                  | 1 | PCS |
| IC903 | 56L 158 4 T      | A HTL431                | 1 | PCS |
| Q902  | 57L 419 PP T     | 2PC945P                 | 1 | PCS |
| Q901  | 57L 420 PP T     | 2PA733P                 | 1 | PCS |
| C929  | 64L700J1040AT    | 0.1UF 50V PEN           | 1 | PCS |
| C905  | 65L 2K152 1T6052 | 1.5NF/2KV Y5P +-10%     | 0 | PCS |
| C905  | 65L 2K152 1T6285 | 1.5NF/2KV Y5P +-10%     | 0 | PCS |
| C905  | 65L 2K152 1T6921 | 1.5NF/2KV Y5P +-10%     | 1 | PCS |
| C920  | 65L517K102 5T    | 1000PF 10% Y5P 500V     | 1 | PCS |
| C921  | 65L517K102 5T    | 1000PF 10% Y5P 500V     | 1 | PCS |
| C906  | 67L 305220 7T    | 22UF +-20% 50V          | 1 | PCS |
| C207  | 67L 305330 7T    | 33UF 105                | 1 | PCS |
| C924  | 67L215B4713HT    | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C925  | 67L215B4713HT    | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C924  | 67L215B4713KT    | LOW ESR 470UF16V BY HER | 0 | PCS |
| C925  | 67L215B4713KT    | LOW ESR 470UF16V BY HER | 0 | PCS |
| C201  | 67L215C1514HT    | LOW ESR 150UF 25V 8*7MM | 1 | PCS |

|            |               |                         |       |       |
|------------|---------------|-------------------------|-------|-------|
| C223       | 67L215C1514HT | LOW ESR 150UF 25V 8*7MM | 1     | PCS   |
| C924       | 67L215N4713NT | EC 105 16V 470UF KZE16V | 0     | PCS   |
| C925       | 67L215N4713NT | EC 105 16V 470UF KZE16V | 0     | PCS   |
| F901       | 84L 56 1      | FUSE 2A 250V WICKMANN   | 1     | PCS   |
| -----      | -----         | -----                   | ----- | ----- |
| PARENT NO: | PW1742LGD1SMT | POWER BOARD             |       |       |
| -----      | -----         | -----                   | ----- | ----- |
| U201       | 56L 608 1     | TL1451ACD               | 1     | PCS   |
| U201       | 56L 622 1     | BA9741F-SMT             | 0     | PCS   |
| Q205       | 57L 417 4     | PMBS3904/PHILIPS-SMT(04 | 1     | PCS   |
| Q206       | 57L 417 4     | PMBS3904/PHILIPS-SMT(04 | 1     | PCS   |
| Q207       | 57L 417 6     | PMBS3906/PHILIPS-SMT(06 | 1     | PCS   |
| Q208       | 57L 417 6     | PMBS3906/PHILIPS-SMT(06 | 1     | PCS   |
| Q203       | 57L 600 37    | STS6PF30L S0-8          | 0     | PCS   |
| Q204       | 57L 600 37    | STS6PF30L S0-8          | 0     | PCS   |
| Q202       | 57L 760 4     | DTA144WKA BY ROHM SMT(7 | 1     | PCS   |
| Q201       | 57L 760 5     | DTC144WKA BY ROHM SMT(8 | 1     | PCS   |
| Q203       | 57L 763 3     | A04411 S0-8 BY AOS SMT  | 0     | PCS   |
| Q204       | 57L 763 3     | A04411 S0-8 BY AOS SMT  | 0     | PCS   |
| Q203       | 57L 763 4     | RSS050P03               | 1     | PCS   |
| Q204       | 57L 763 4     | RSS050P03               | 1     | PCS   |
| R204       | 61L0603103    | CHIPR 10K OHM +-5% 1/10 | 1     | PCS   |
| R210       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R211       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R220       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R221       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R238       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R239       | 61L0603123    | CHIP 12K OHM 1/10W      | 1     | PCS   |
| R222       | 61L0603153    | CHIPR 15KOHM+-5% 1/10W  | 1     | PCS   |
| R223       | 61L0603153    | CHIPR 15KOHM+-5% 1/10W  | 1     | PCS   |
| R216       | 61L0603221    | CHIPR 220 OHM+-5% 1/10W | 1     | PCS   |
| R217       | 61L0603221    | CHIPR 220 OHM+-5% 1/10W | 1     | PCS   |
| R212       | 61L0603392    | CHIP 3.9K OHM 1/10W     | 1     | PCS   |
| R213       | 61L0603392    | CHIP 3.9K OHM 1/10W     | 1     | PCS   |
| R214       | 61L0603392    | CHIP 3.9K OHM 1/10W     | 1     | PCS   |
| R215       | 61L0603392    | CHIP 3.9K OHM 1/10W     | 1     | PCS   |
| R218       | 61L0603471    | CHIPR 470 OHM+-5% 1/10W | 1     | PCS   |
| R219       | 61L0603471    | CHIPR 470 OHM+-5% 1/10W | 1     | PCS   |
| R208       | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1     | PCS   |
| R209       | 61L0603472    | CHIPR 4.7K OHM +-5% 1/1 | 1     | PCS   |

|      |               |                         |   |     |
|------|---------------|-------------------------|---|-----|
| R236 | 61L0603511    | CHIPR 510 OHM+-5% 1/10W | 1 | PCS |
| R237 | 61L0603511    | CHIPR 510 OHM+-5% 1/10W | 1 | PCS |
| R202 | 61L0603512    | CHIP 5.1K OHM 1/10W     | 1 | PCS |
| R203 | 61L0603512    | CHIP 5.1K OHM 1/10W     | 1 | PCS |
| R240 | 61L0603513    | CHIP 51K OHM 1/10W      | 1 | PCS |
| R241 | 61L0603513    | CHIP 51K OHM 1/10W      | 1 | PCS |
| R234 | 61L0603621    | CHIPR 620 OHM+-5% 1/10W | 1 | PCS |
| R235 | 61L0603621    | CHIPR 620 OHM+-5% 1/10W | 1 | PCS |
| R205 | 61L0603683    | CHIP 68K OHM 1/10W      | 1 | PCS |
| R206 | 61L0603683    | CHIP 68K OHM 1/10W      | 1 | PCS |
| F201 | 61L1206000    | CHIPR 0 OHM +-5% 1/4W   | 1 | PCS |
| R912 | 61L1206101    | CHIP 100 OHM 5% 1/4W    | 1 | PCS |
| R928 | 61L1206102    | CHIP 1K OHM 5% 1/4W     | 1 | PCS |
| R913 | 61L1206103    | CHIP 10KOHM 5% 1/4W     | 1 | PCS |
| R901 | 61L1206105    | CHIP 1MOHM 5% 1/4W      | 1 | PCS |
| R902 | 61L1206105    | CHIP 1MOHM 5% 1/4W      | 1 | PCS |
| R914 | 61L1206243    | CHIP 24K OHM 5% 1/4W    | 1 | PCS |
| R909 | 61L1206472    | CHIP 4.7KOHM 5% 1/4W    | 1 | PCS |
| R910 | 61L1206472    | CHIP 4.7KOHM 5% 1/4W    | 1 | PCS |
| R911 | 61L1206472    | CHIP 4.7KOHM 5% 1/4W    | 1 | PCS |
| R908 | 61L1206519    | CHIPR 510OHM +-5% 1/4W  | 1 | PCS |
| C230 | 65L0805102 32 | CHIP 1000P 50VX7R 0805  | 1 | PCS |
| C231 | 65L0805102 32 | CHIP 1000P 50VX7R 0805  | 1 | PCS |
| C910 | 65L0805102 32 | CHIP 1000P 50VX7R 0805  | 1 | PCS |
| C930 | 65L0805102 32 | CHIP 1000P 50VX7R 0805  | 1 | PCS |
| C931 | 65L0805102 32 | CHIP 1000P 50VX7R 0805  | 1 | PCS |
| C202 | 65L0805104 22 | 0.1UF +-10% 25V X7R 080 | 1 | PCS |
| C204 | 65L0805104 22 | 0.1UF +-10% 25V X7R 080 | 1 | PCS |
| C205 | 65L0805104 22 | 0.1UF +-10% 25V X7R 080 | 1 | PCS |
| C206 | 65L0805104 22 | 0.1UF +-10% 25V X7R 080 | 1 | PCS |
| C907 | 65L0805104 32 | CHIP 0.1UF 50V X7R      | 1 | PCS |
| C908 | 65L0805104 32 | CHIP 0.1UF 50V X7R      | 1 | PCS |
| C909 | 65L0805104 32 | CHIP 0.1UF 50V X7R      | 1 | PCS |
| C926 | 65L0805104 32 | CHIP 0.1UF 50V X7R      | 1 | PCS |
| C927 | 65L0805104 32 | CHIP 0.1UF 50V X7R      | 1 | PCS |
| C203 | 65L0805105 22 | CHIP 1UF 25V X7R 0805   | 1 | PCS |
| C209 | 65L0805105 22 | CHIP 1UF 25V X7R 0805   | 1 | PCS |
| C210 | 65L0805105 22 | CHIP 1UF 25V X7R 0805   | 1 | PCS |
| C211 | 65L0805105 22 | CHIP 1UF 25V X7R 0805   | 1 | PCS |
| C212 | 65L0805105 22 | CHIP 1UF 25V X7R 0805   | 1 | PCS |

|            |                |                         |       |       |
|------------|----------------|-------------------------|-------|-------|
| C219       | 65L0805105 22  | CHIP 1UF 25V X7R 0805   | 1     | PCS   |
| C220       | 65L0805105 22  | CHIP 1UF 25V X7R 0805   | 1     | PCS   |
| C208       | 65L0805331 32  | CHIP 330PF 50V X7R 0805 | 1     | PCS   |
| C221       | 65L0805474 22  | CHIP 0.47UF 25V X7R 080 | 1     | PCS   |
| C222       | 65L0805474 22  | CHIP 0.47UF 25V X7R 080 | 1     | PCS   |
| D203       | 93L 39S 3 T    | BZT52-C11               | 0     | PCS   |
| D204       | 93L 39S 3 T    | BZT52-C11               | 0     | PCS   |
| D203       | 93L 39S 8 T    | ZD RLZ11B ROHM          | 1     | PCS   |
| D204       | 93L 39S 8 T    | ZD RLZ11B ROHM          | 1     | PCS   |
| ZD901      | 93L 39S 12 T   | RLZ20B BY ROHM          | 1     | PCS   |
| ZD904      | 93L 39S 16 T   | SML4737A/1              | 0     | PCS   |
| ZD904      | 93L 39S 19 T   | PTZ7.5B                 | 1     | PCS   |
| D201       | 93L2004 2A     | SM240A                  | 0     | PCS   |
| D202       | 93L2004 2A     | SM240A                  | 0     | PCS   |
| D201       | 93L3004 1      | SMAL340XXXR0 3A 40V SMA | 0     | PCS   |
| D202       | 93L3004 1      | SMAL340XXXR0 3A 40V SMA | 0     | PCS   |
| D201       | 93L3004 2      | SR34 PAN JIT            | 1     | PCS   |
| D202       | 93L3004 2      | SR34 PAN JIT            | 1     | PCS   |
| -----      | -----          | -----                   | ----- | ----- |
| PARENT NO: | 705L 560 57 DL | D910/D911 ASS'Y         |       |       |
| -----      | -----          | -----                   | ----- | ----- |
|            | 90L6064 1      | HEAT SINK               | 1     | PCS   |
| D911       | 93L 60235      | FCQ10A06 (F10P06Q)      | 1     | PCS   |
| D911       | 93L 60236      | FMB-26L                 | 0     | PCS   |
| D910       | 93L 60238      | FCH10A15 T0-220         | 1     | PCS   |
| D910       | 93L 60239      | FME-210B T0-220         | 0     | PCS   |
|            | M1L1730 8128   | SCREW M3x8              | 2     | PCS   |
| -----      | -----          | -----                   | ----- | ----- |
| PARENT NO: | 705L 560 61 05 | R917 ASS'Y              |       |       |
| -----      | -----          | -----                   | ----- | ----- |
| R917       | 61L 2J39858H   | 0.3900HM 5% 2W          | 1     | PCS   |
|            | 96L 29 6       | SHRINK TUBE UL/CSA      | 1     | PCS   |
| -----      | -----          | -----                   | ----- | ----- |
| PARENT NO: | 705L 560 61 06 | R903 ASS'Y              |       |       |
| -----      | -----          | -----                   | ----- | ----- |
| R903       | 61L152M10458F  | 100K OHM 5% 2W          | 1     | PCS   |
|            | 96L 29 6       | SHRINK TUBE UL/CSA      | 1     | PCS   |
| -----      | -----          | -----                   | ----- | ----- |
| PARENT NO: | 705L 780 57 DL | Q903 ASS'Y              |       |       |
| -----      | -----          | -----                   | ----- | ----- |

|            |                |                    |       |       |
|------------|----------------|--------------------|-------|-------|
| Q903       | 57L 600 35     | STP8NK80ZFP        | 0     | PCS   |
| Q903       | 57L 667 15     | FQPF7N80 T0-220F   | 1     | PCS   |
|            | 90L6064 1      | HEAT SINK          | 1     | PCS   |
|            | M1L1730 8128   | SCREW M3x8         | 1     | PCS   |
| -----      | -----          | -----              | ----- | ----- |
| PARENT NO: | 705L 780 87 DL | CN901 ASS'Y        |       |       |
| -----      | -----          | -----              | ----- | ----- |
|            | 87L 501 14 RF  | AC SOCKET          | 1     | PCS   |
|            | 95L 900 42     | HARNESS            | 1     | PCS   |
|            | 95L8021 2508   | WIRE HARNESS       | 1     | PCS   |
|            | 96L 29 6       | SHRINK TUBE UL/CSA | 3     | PCS   |
| -----      | -----          | -----              | ----- | ----- |
| PARENT NO: | 705L780KB34 79 | BACK COVER ASS'Y   |       |       |
| -----      | -----          | -----              | ----- | ----- |
|            | 12L 394 5      | FOOT PORON         | 0     | PCS   |
|            | 15L8053 1      | BRACKET BASE       | 1     | PCS   |
|            | 20L 015 1      | RISER DIECASTING   | 1     | PCS   |
|            | 34L1369 Y2 T   | VESA COVER         | 1     | PCS   |
|            | 34L1370 Y2 T   | STAND FRANT        | 1     | PCS   |
|            | 34L1371 Y2 T   | STAND BACK         | 1     | PCS   |
|            | 34L1372 Y2 T   | BASE               | 1     | PCS   |
|            | 37L 483 2      | HINGE              | 1     | PCS   |
|            | M1L 130 8225   | SCREW              | 3     | PCS   |
|            | M1L 140 8 47   | SRCEW              | 4     | PCS   |
|            | Q1L 330 8 47   | SCREW 3X8mm        | 4     | PCS   |
|            | Q1L 330 8 47   | SCREW 3X8mm        | 2     | PCS   |