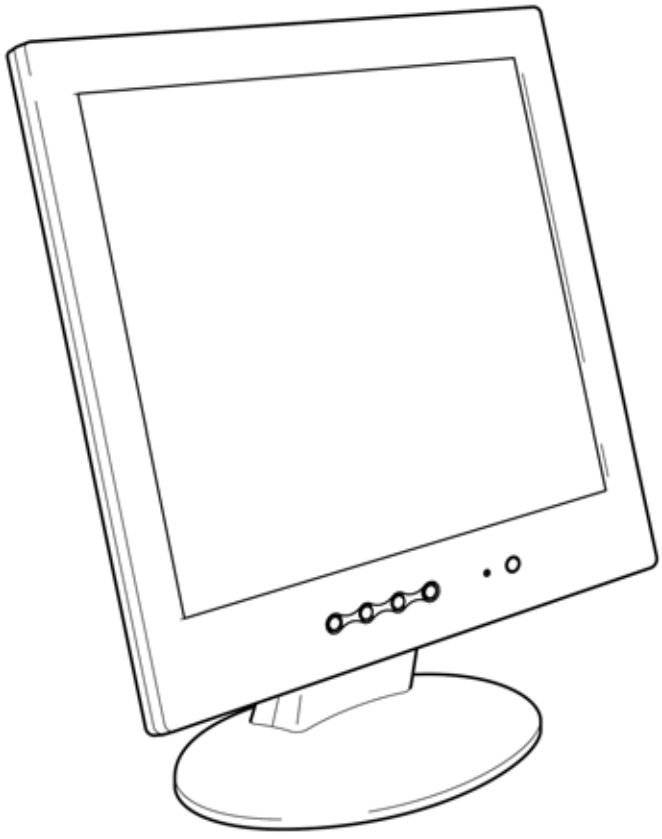
# SERVICE MANUAL

## 17” LCD Monitor
## EN7400e



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MANUFACTURE DATE: Jul-22-2005

| REVISION | DATE | MODIFIACTION |
|---|---|---|
| A00 | Jul-22-2005 | Initial release |
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# 1. MONITOR SPECIFICATIONS

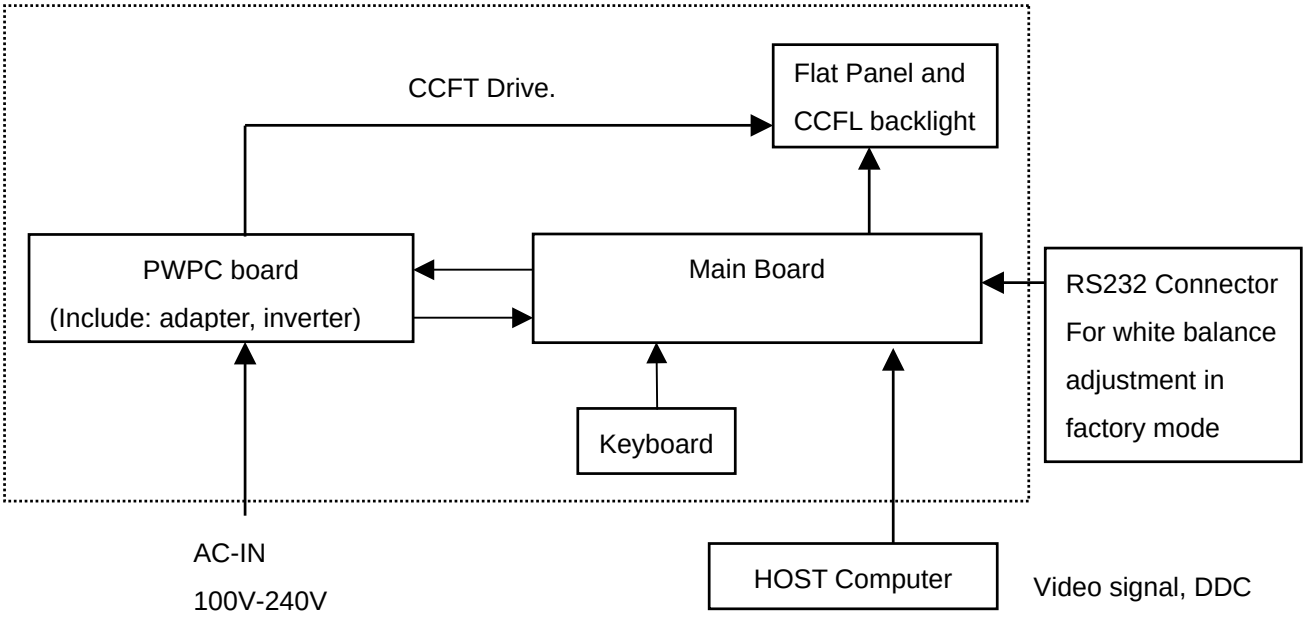
| | | |
|---|---|---|
| LCD Panel | Driving system | TFT LCD |
| | Size | 43cm(17") |
| | Type | QD17EL07 (QDI) |
| | Pixel pitch | 0.264mm(H) x 0.264mm(V) |
| | Viewing angle | 160(H) 145(V) (R>5) |
| | Luminance | 270cd/㎡ |
| | Contrast Ratio | 450:1 |
| | Response time | 16ms (typ) |
| | Display colors | 16.2 million Colors |
| Input signals | R G B Analog | 0.7Vp-p |
| | H/V separate | TTL level |
| | H/V composite | TTL level |
| | Horizontal frequency | 30kHz–80kHz |
| | Vertical rate | 55-75Hz |
| | Recommend resolution | 1280 x 1024@60HZ |
| Power consumption | ON MODEL | ≤45W |
| | Stand by | ≤3W |
| | Suspend | ≤3W |
| | OFF MODEL | ≤3W |
| Power supply | AC voltage | 100~240VAC,47~63Hz |
| Maximum Screen Size | Horizontal: 337.9mm，Vertical: 270.3mm | |
| Operating condition | Temperature | 5-35°C |
| Storage Condition | Temperature | -20-60°C |
| Dimension | Unpackaged | 407 mm (W) x 434mm (H) x 173mm (D) |

# 2. LCD MONITOR DESCRIPTION

The LCD MONITOR will contain a main board, a power board and a keypad 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.

**Monitor Block Diagram**



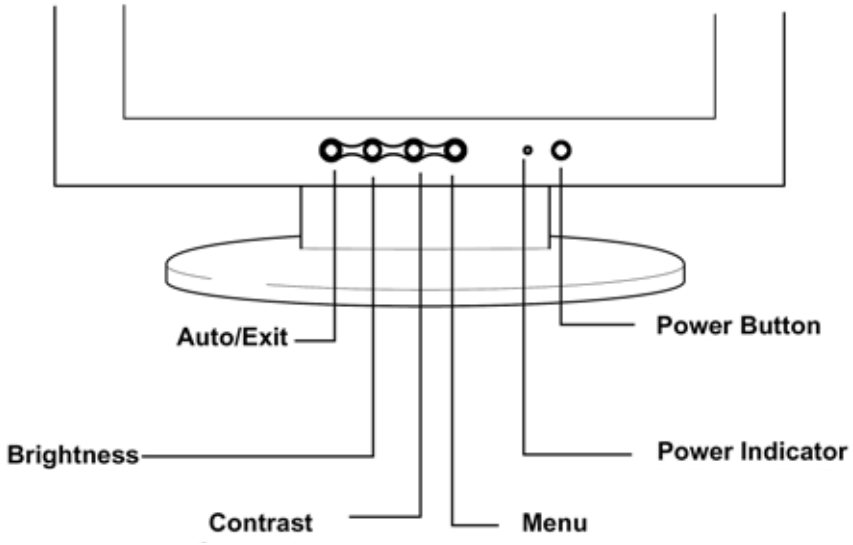
# 3. OPERATING INSTRUCTIONS

## 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.

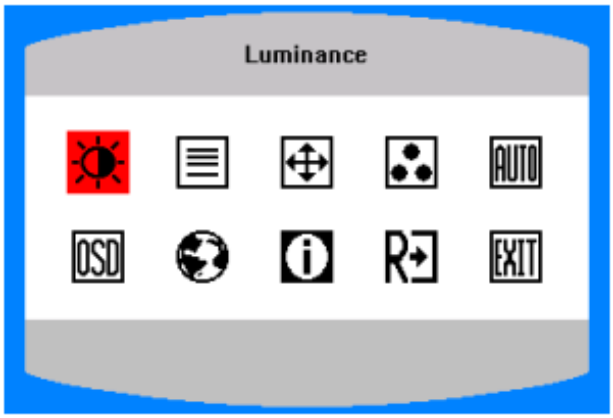
- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

## 3.2 FRONT PANEL CONTROL




| NO. | Name | Within OSD | Without OSD |
|---|---|---|---|
| 1 | Auto/Exit | 1. Exit Sub menu<br>2. Exit the menu item | Run the Auto Adjust when this button keep to push for 2 second |
| 2 | Brightness | 1.Move the cursor to left<br>2.Adjust down when menu item selected | Open the Brightness menu |
| 3 | Contrast | 1.Move the cursor to right<br>2.Adjust up when menu item selected | Open the contrast menu |
| 4 | MENU | Select Function or select Sub menu | Activate OSD main menu |
| 5 | Indicator | Green—On Red—Save | Green—On Red—Save |
| 6 | Power | Power On / Off | Power On / Off |

## 3.3 ADJUSTING THE PICTURE




**THE DESCRIPTION FOR CONTROL FUNCTION:**

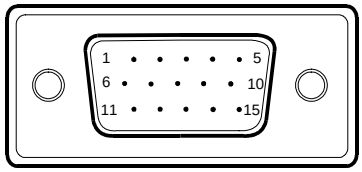
| Main Menu Item | Main Menu Icon | Sub Menu Item | Sub Menu Icon | Description | Adjust Range | Reset Value |
|---|---|---|---|---|---|---|
| Luminance | | Contrast | | Contrast from Digital-register. | 0-100 | Recall Cool Contrast Value |
| | | Brightness | | Backlight Adjustment | 0-100 | Recall Cool Brightness Value |
| Image Setup | | Focus | | Adjust Picture Phase to reduce Horizontal-Line noise | 0-100 | Do Auto Config |
| | | Clock | | Adjust picture Clock to reduce Vertical-Line noise. | 0-100 | Do Auto Config |
| Image Position | | H. Position | | Adjust the horizontal position of the picture. | 0-100 | Do Auto Config |
| | | V. Position | | Adjust the vertical position of the picture. | 0-100 | Do Auto Config |
| Color Temp. | | C1 | N/A | Recall warm Color Temperature from EEPROM. | N/A | The Color Temperature will be set to Cool.<br>The User R/G/B value (default is 100) will not be Modified by Reset function. |
| | | C2 | N/A | Recall cool Color Temperature from EEPROM. | N/A | |
| | | User / Red | R | Red Gain from Digital-register. | 0-100 | |
| | | User / Green | G | Green Gain from Digital-register. | 0-100 | |
| | | User / Blue | B | Blue Gain from Digital-register. | 0-100 | |
| Auto Config (Analog-Only | AUTO | Yes | N/A | Auto Adjust the H/V Position, Focus and Clock of picture. | N/A | N/A |

| | | | | | | |
|---|---|---|---|---|---|---|
| Model) | | No | N/A | Do not execute Auto Config, return to main menu. | N/A | N/A |
| OSD Setup | OSD | H. Position |  | Adjust the horizontal position of the OSD. | 0-100 | 50 |
| | | V. Position |  | Adjust the vertical position of the OSD. | 0-100 | 50 |
| | | OSD Timeout |  | Adjust the OSD timeout. | 10-120 | 10 |
| Language | | English | N/A | Set OSD display language to English. | N/A | The Language will be set to English. |
| | | Deutsch | N/A | Set OSD display language to German. | N/A | |
| | | Français | N/A | Set OSD display language to French. | N/A | |
| | | Español | N/A | Set OSD display language to Spain. | N/A | |
| | | Italiano | N/A | Set OSD display language to Italian. | N/A | |
| Information | | Information | N/A | Show the resolution, H/V frequency and input port of current input timing. | N/A | N/A |
| Reset | | Yes | N/A | Clear each old status of Auto-configuration and set the color temperature to Cool. | N/A | N/A |
| | | No | N/A | Do not execute reset, return to main menu. | N/A | N/A |
| Exit | EXIT | N/A | N/A | Exit OSD | N/A | N/A |

# 4. INPUT/OUTPUT SPECIFICATION

## 4.1 INPUT SIGNAL CONNECTOR

### ANALOG D-SUB CONNECTOR

| PIN NO. | DESCRIPTION | PI N NO. | DESCRIPTION |
|---|---|---|---|
| **1.** | Red | **9.** | +5V |
| **2.** | Green | **10.** | Logic Ground |
| **3.** | Blue | **11.** | Monitor Ground |
| **4.** | Monitor Ground | **12.** | DDC-Serial Data |
| **5.** | DDC-Return | **13.** | H-Sync |
| **6.** | R-Ground | **14.** | V-Sync |
| **7.** | G-Ground | **15.** | DDC-Serial Clock |
| **8.** | B-Ground | | |
| **VGA connector layout** | | | |
|  | | | |

## 4.2 FACTORY PRESET DISPLAY MODES

| VESA MODES | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Horizontal | | Vertical | | |
| Mode | Resolution | Total | Nominal Frequency +/- 0.5kHz | Sync Polarity | Nominal Freq. +/- 1 Hz | Sync Polarity | Nominal Pixel Clock (MHz) |
| VGA | 640x480@60Hz | 800 x 525 | 31.469 | N | 59.940 | N | 25.175 |
| | 640x480@72Hz | 832 x 520 | 37.861 | N | 72.809 | N | 31.500 |
| | 640x480@75Hz | 840 x 500 | 37.500 | N | 75.00 | N | 31.500 |
| SVGA | 800x600@56Hz | 1024 x 625 | 35.156 | N/P | 56.250 | N/P | 36.000 |
| | 800x600@60Hz | 1056 x 628 | 37.879 | P | 60.317 | P | 40.000 |
| | 800x600@72Hz | 1040 x 666 | 48.077 | P | 72.188 | P | 50.000 |
| | 800x600@75Hz | 1056x625 | 46.875 | P | 75.000 | P | 49.500 |
| XGA | 1024x768@60Hz | 1344x806 | 48.363 | N | 60.004 | N | 65.000 |
| | 1024x768@70Hz | 1328x806 | 56.476 | N | 70.069 | N | 75.000 |
| | 1024x768@75Hz | 1312x800 | 60.023 | P | 75.029 | P | 78.750 |
| SXGA | 1280x1024@60Hz | 1688x1066 | 63.981 | P | 60.020 | P | 108.000 |
| | 1280x1024@75Hz | 1688x1066 | 79.976 | P | 75.025 | P | 135.000 |
| IBM MODES | | | | | | | |
| | | | Horizontal | | Vertical | | |
| 2Mode | Resolution | Total | Nominal Frequency +/- 0.5kHz | Sync Polarity | Nominal Freq. +/- 1 Hz | Sync Polarity | Nominal Pixel Clock (MHz) |
| DOS* | 720x400@70Hz | 900 x 449 | 31.469 | N | 70.087 | P | 28.322 |
| DOS** | 640x400@70Hz | 800 x 449 | 31.469 | N | 70.087 | P | 25.175 |
| DOS | 640x350@70Hz | 800 x 449 | 31.469 | P | 70.087 | N | 25.175 |
| MAC MODES | | | | | | | |
| VGA | 640x480@67Hz | 864x525 | 35.000 | N | 66.667 | N | 30.240 |
| SVGA | 832x624@75Hz | 1152x667 | 49.725 | N | 74.551 | N | 57.2832 |

*, ** - The two complimentary modes feature the same horizontal and vertical sync frequencies and polarities, and therefore require manual selection.

## 4.3 POWER SUPPLY REQUIREMENT

| | |
|---|---|
| A/C Line voltage range | : 100 V ~ 240 V |
| A/C Line frequency range | : 50 ± 3Hz, 60 ± 3Hz |
| Current | : TBD |
| Peak surge current | : < 55A peak at 240 VAC and cold starting |
| Leakage current | : < 3.5mA |
| Power line surge | : No advance effects (no loss of information or defect)<br>with a maximum of 1 half-wave missing per second |
| Voltage | : 12VDC ± 5% |
| CURRENT | : 3.5 Amp (max) |

# 5. PANEL SPECIFICATION

## 5.1 GENERAL FEATURE

This module is a color active matrix LCD module incorporating amorphous silicon TFT (Thin Film Transistor). It is composed of a color TFT-LCD panel; driver ICs, control circuit and power supply circuit and backlight unit. Graphics and texts can be displayed on a 1280×3×1024 dots panel with 16.2 million colors by using the LVDS (Low Voltage Differential Signaling) interface, 6-bit-2bit FRC driving method and supplying +5V DC supply voltage for TFT-LCD panel driving.

The TFT-LCD panel used for this module has very high aperture ratio. A low-reflection and higher-color-saturation type color filter is also used for this panel. Therefore, high-brightness and high-contrast image, which is suitable for the multimedia use, can be obtained by using this module.

- High aperture panel; high-brightness or low power consumption.
- Brilliant and high contrast image.
- Small footprint and thin shape.
- SXGA resolution.
- LVDS interface
- Low power consumption.
- Wide viewing angle.

**Display Characteristics**

| Parameter | Specification | Unit |
|---|---|---|
| Display size | 43(17") Diagonal | Cm |
| Pixel format | 1280(H) ×1024(V) | mm |
| | (1 pixel=R+G+B dots) | Pixel |
| Active area | 337.9(H)×270.3(V) | |
| Pixel pitch | 0.264(H)×0.264(V) | mm |
| Pixel configuration | R,G,B vertical stripe | |
| Display mode | Normally White | |
| Unit outline dimensions(typ.)*1 | 358.5×296.5×16.5 | mm |
| Weight | 1970(Max.) | g |
| Surface treatment | Anti-glare and hard-coating 3H<br>Low reflection (～5%) | |
| Lamp Quantity | 4 | pcs |

## 5.2 OPTICAL SPECIFICATION

Ta=25℃, $V_{DD}$=+5V

| Parameter | | Symbol | Condition | Min. | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|---|---|
| Viewing Angle Range | Horizontal | θ21,θ22 | CR>10 | 65 | 75 | | Deg. | 【Note1, 4】 |
| | Vertical | θ11 | | 55 | 65 | | Deg. | |
| | | θ12 | | 50 | 60 | | Deg. | |
| | Horizontal | θ21,θ22 | CR>5 | 75 | 80 | | Deg. | |
| | Vertical | θ11 | | 65 | 75 | | Deg. | |
| | | θ12 | | 60 | 70 | | Deg. | |
| Contrast ratio | | CRn | θ=0° | 300 | 450 | — | | 【Note2, 4】 |
| Response time | | τ | θ=0° | — | 16 | | ms | 【Note3, 4】 |
| Rise time | τr | | | | 4 | 5 | ms | |
| Fall time | τd | | | | 12 | 20 | ms | |
| Chromaticity of White (CIE 1931) | | Wx | | 0.283 | 0.313 | 0.343 | | 【Note4】 |
| | | Wy | | 0.299 | 0.329 | 0.359 | | |
| Chromaticity of Red (CIE 1931) | | Rx | | 0.603 | 0.633 | 0.663 | | |
| | | Ry | | 0.306 | 0.336 | 0.366 | | |
| Chromaticity of Green (CIE 1931) | | Gx | | 0.270 | 0.300 | 0.330 | | |
| | | Gy | | 0.556 | 0.586 | 0.616 | | |
| Chromaticity of Blue (CIE 1931) | | Bx | | 0.116 | 0.146 | 0.176 | | |
| | | By | | 0.073 | 0.103 | 0.133 | | |
| Luminance of white | | YL | | 220 | 270 | | $Cd/m^2$ | IL = 7.0mArms |
| White Uniformity | | δW | | — | 1.25 | 1.33 | | 【Note5】 |

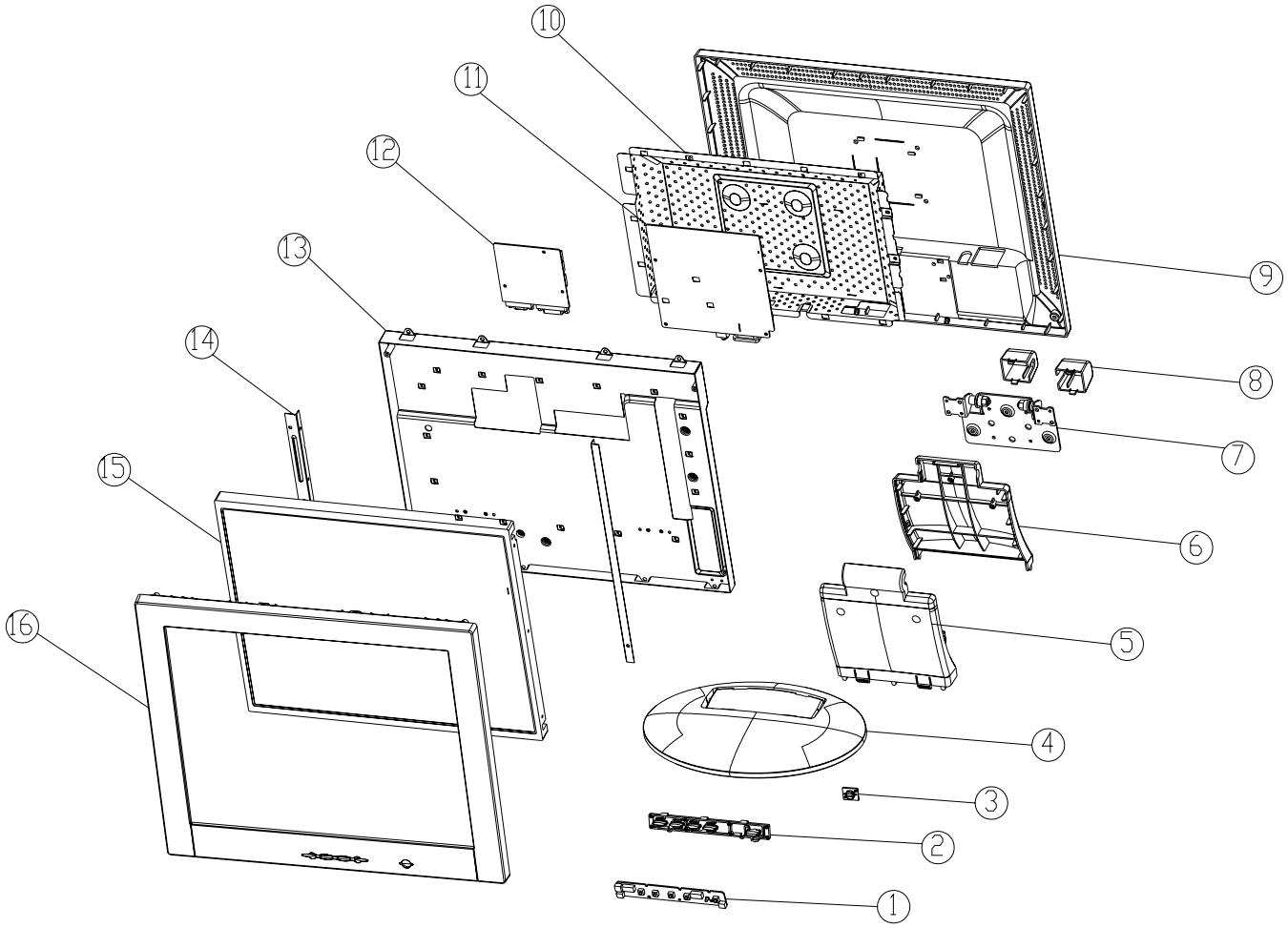
### ELECTRICAL SPECIFICATIONS

| Parameter | | | Symbol | Min. | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|---|---|
| $V_{DD}$ | Supply voltage | | $V_{DD}$ | +4.5 | +5.0 | +5.5 | V | 【Note2】 |
| | Current dissipation | | $I_{DD}$ | — | 350 | 700 | mA | 【Note3】 |
| Permissive input ripple voltage | | | $V_{RP}$ | — | — | 100 | mV p-p | $V_{DD}$=+5.5V |
| Differential input threshold voltage | | High | $V_{TH}$ | — | — | +100 | mV | $V_{CM}$=+1.2V 【Note1】 |
| | | Low | $V_{TL}$ | –100 | — | — | mV | |
| Rush current | | | $I_{RUSH}$ | | | 4 | A | Rise time 470uS |

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Remark |
|---|---|---|---|---|---|---|
| Lamp current range | $I_L$ | 3.0 | 7.0 | 8.0 | mArms | 【Note1】 |
| Lamp voltage | $V_L$ | 650 | 725 | 770 | Vrms | |
| Lamp power consumption | $P_L$ | | 5.1 | 6.16 | W | 【Note2】 |
| Lamp frequency | $F_L$ | 35 | 52 | 80 | kHz | 【Note3】 |
| Established starting voltage | Vs | | | 1100 | Vrms | Ta=25℃ |
| | | | | 1420 | Vrms | Ta=0℃ 【Note4】 |
| Lamp life time | $L_L$ | 40000 | 50000 | | hour | 【Note5】 |

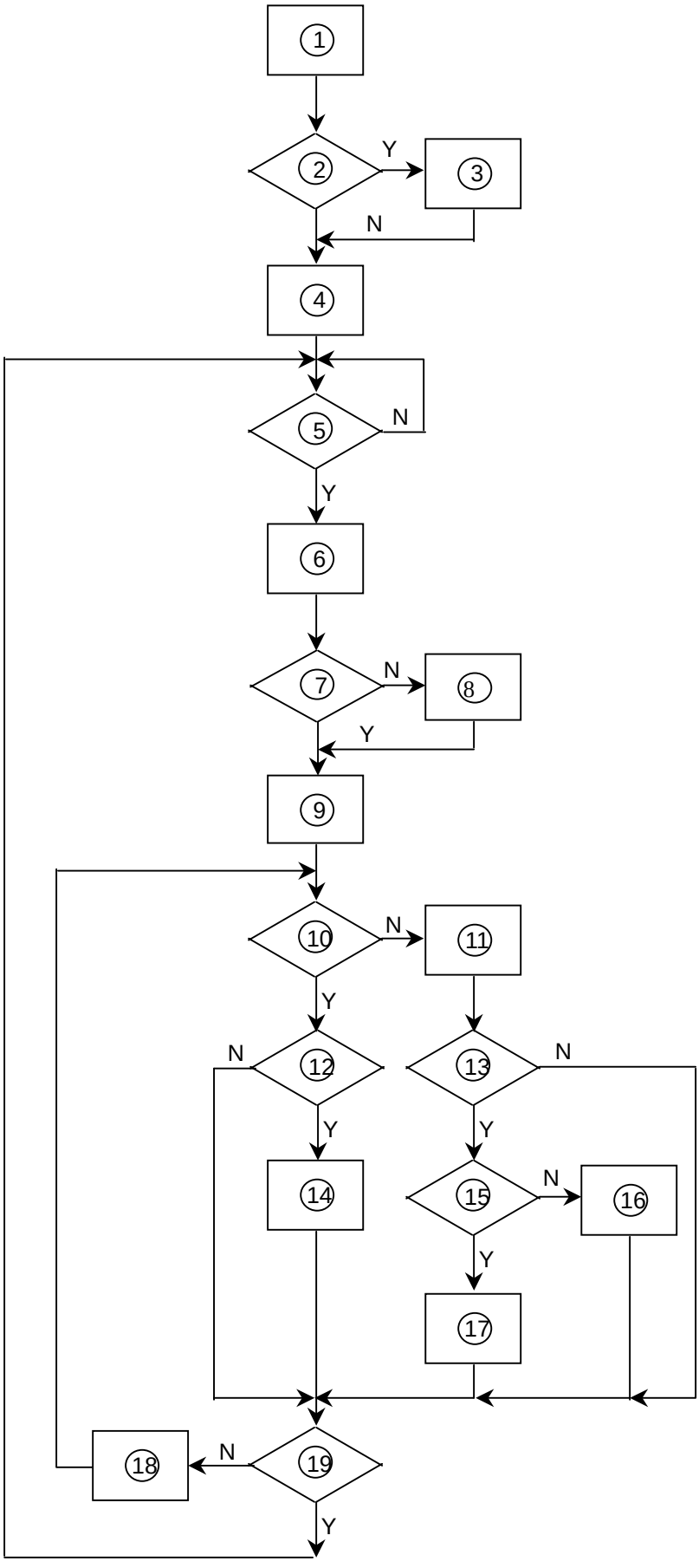
# 6. BLOCK DIAGRAM

## 6.1 MONITOR EXPLORED




| ITEM | NAME | TYPE |
|---|---|---|
| 1 | KEY BOARD | ASSEMBLE |
| 2 | KEY PAD | PART |
| 3 | LENS | PART |
| 4 | BASE | PART |
| 5 | SUPPORT FRONT | PART |
| 6 | SUPPORT BACK | PART |
| 7 | HINGE | PART |
| 8 | HINGE COVER | PART |
| 9 | REARCOVER | PART |
| 10 | MAIN SHIELD | PART |
| 11 | POWER BOARD | ASSEMBLE |
| 12 | MAIN BOARD | ASSEMBLE |
| 13 | MAIN FRAME | PART |
| 14 | BRCKET | PART |
| 15 | PANEL | PART |
| 16 | BEZEL | PART |

## 6.2 SOFTWARE FLOWING CHART

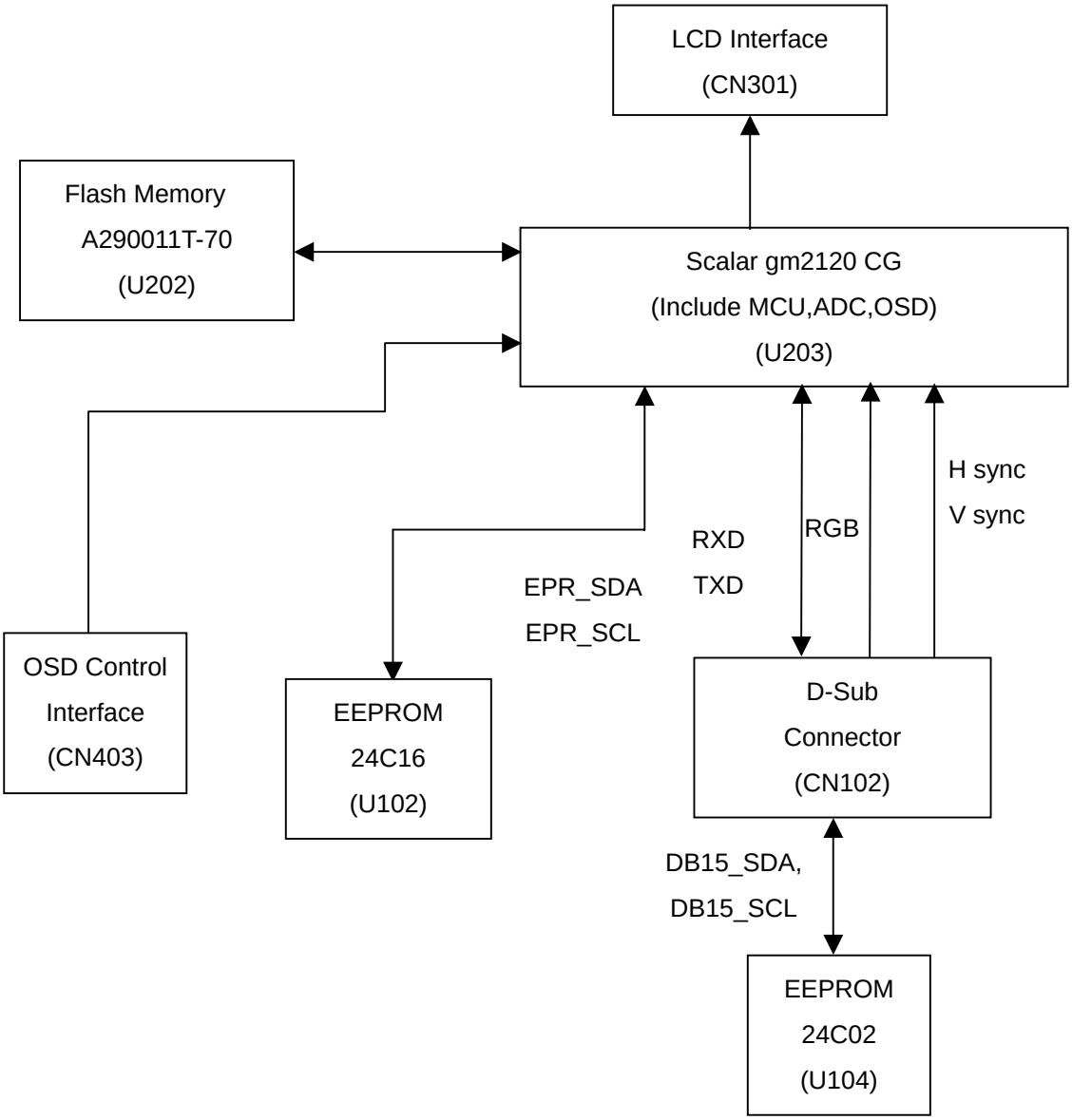


**REMARK:**

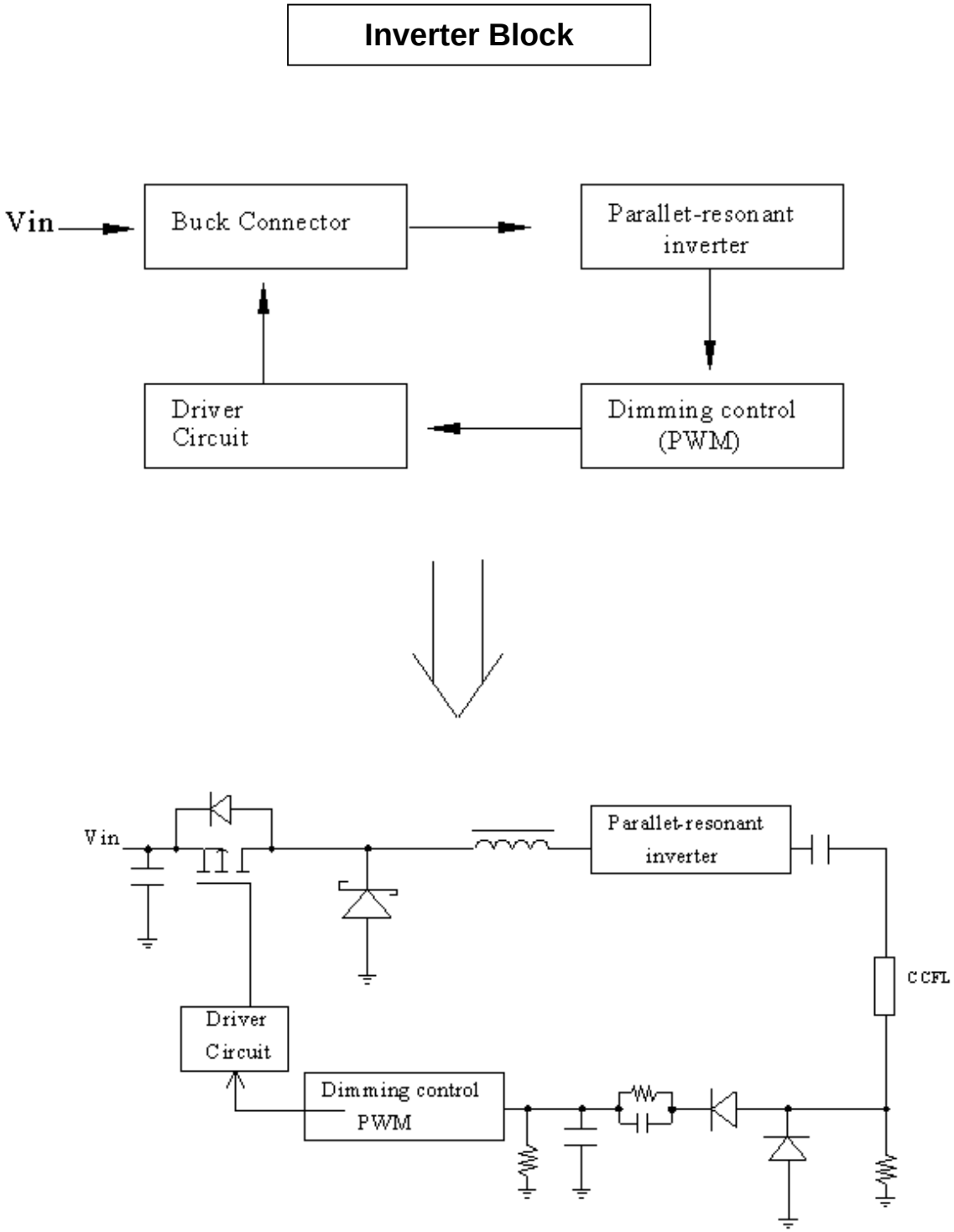
| |
|---|
| 1) MCU initialize. |
| 2) Is the EEprom blank? |
| 3) Program the EEprom by default values. |
| 4) Get the PWM value of brightness from EEprom. |
| 5) Is the power key pressed? |
| 6) Clear all global flags. |
| 7) Are the AUTO and SELECT keys pressed? |
| 8) Enter factory mode. |
| 9) Save the power key status into EEprom.<br>Turn on the LED and set it to green color.<br>Scalar initialize. |
| 10) In standby mode? |
| 11) Update the lifetime of back light. |
| 12) Check the analog port, are they’re 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 disappear. |
| 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? |

## 6.3 ELECTRIAL BLOCK DIAGRAM

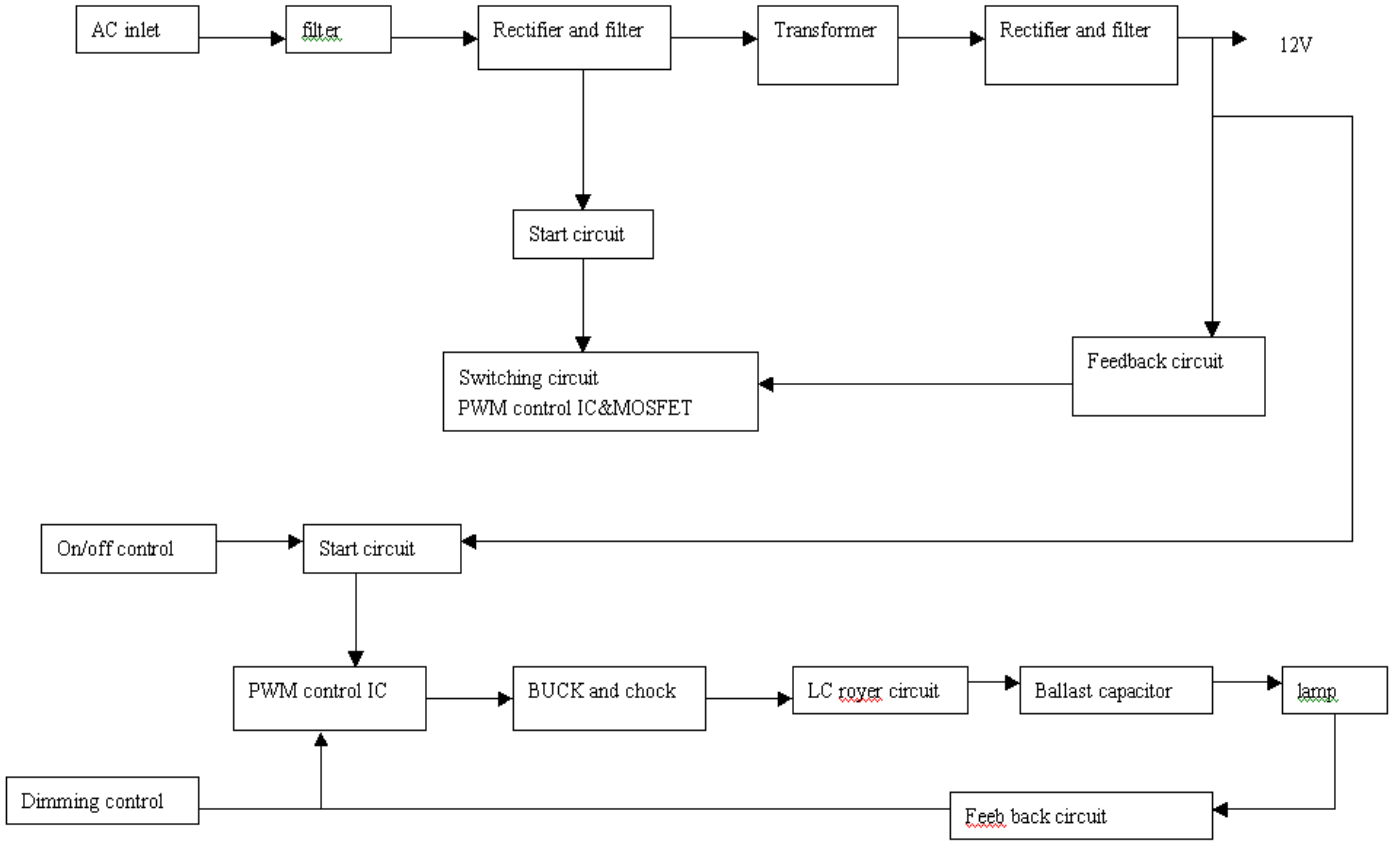
### 6.3.1 MAIN BOARD



### 6.3.2 INVERTER/POWER BOARD



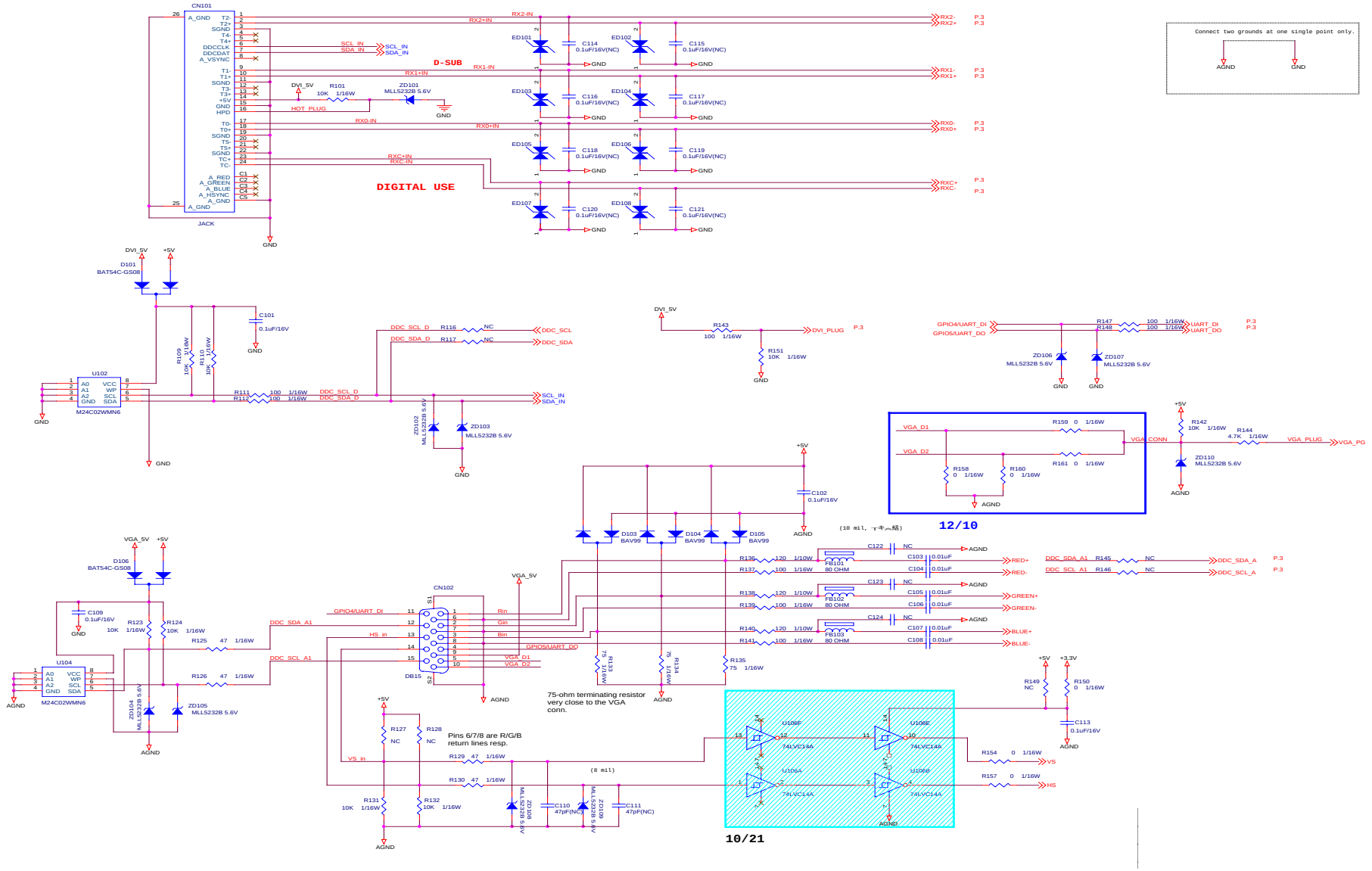
**Power Block Diagram**

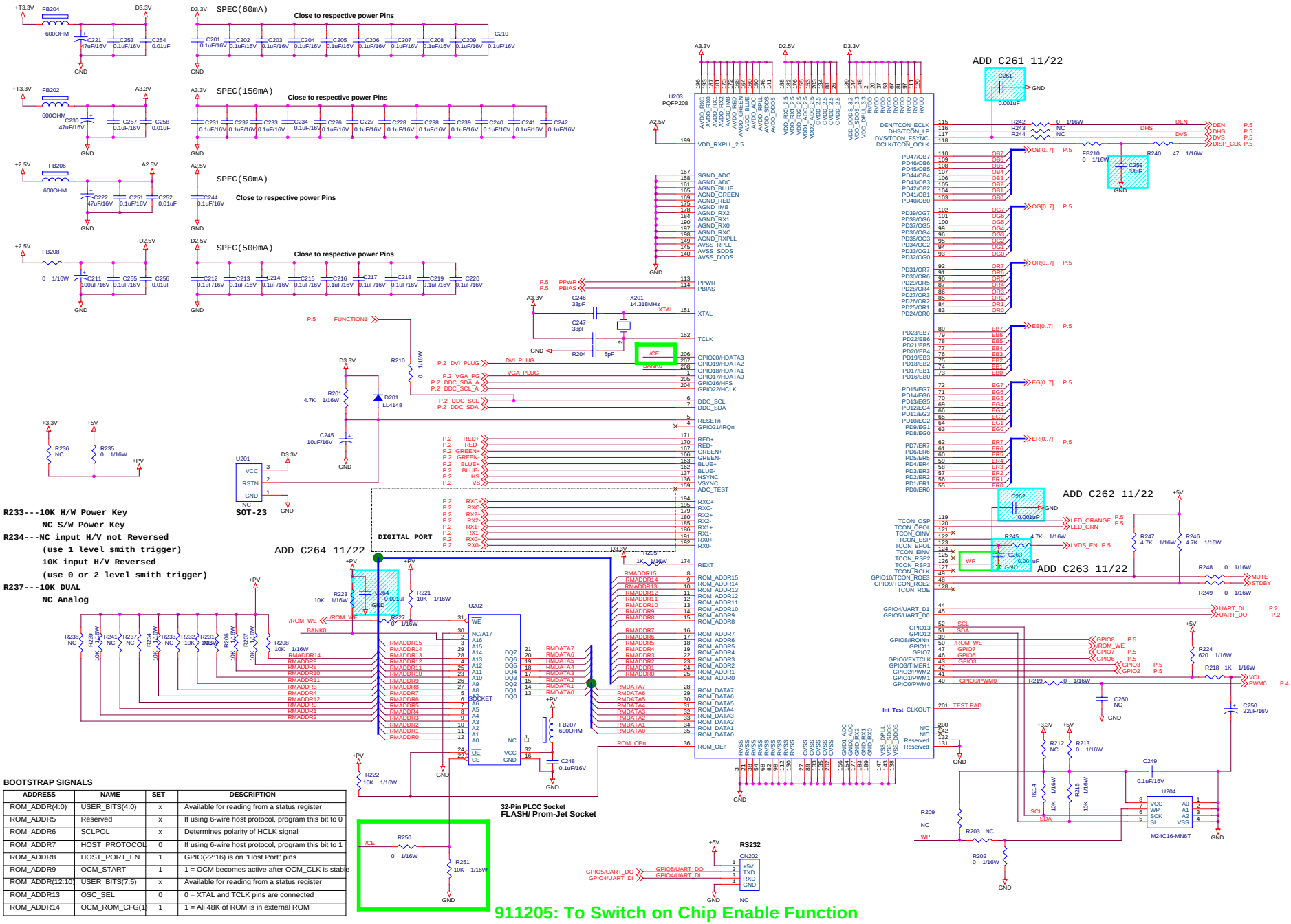


# 7. SCHEMATIC

## 7.1 MAIN BOARD

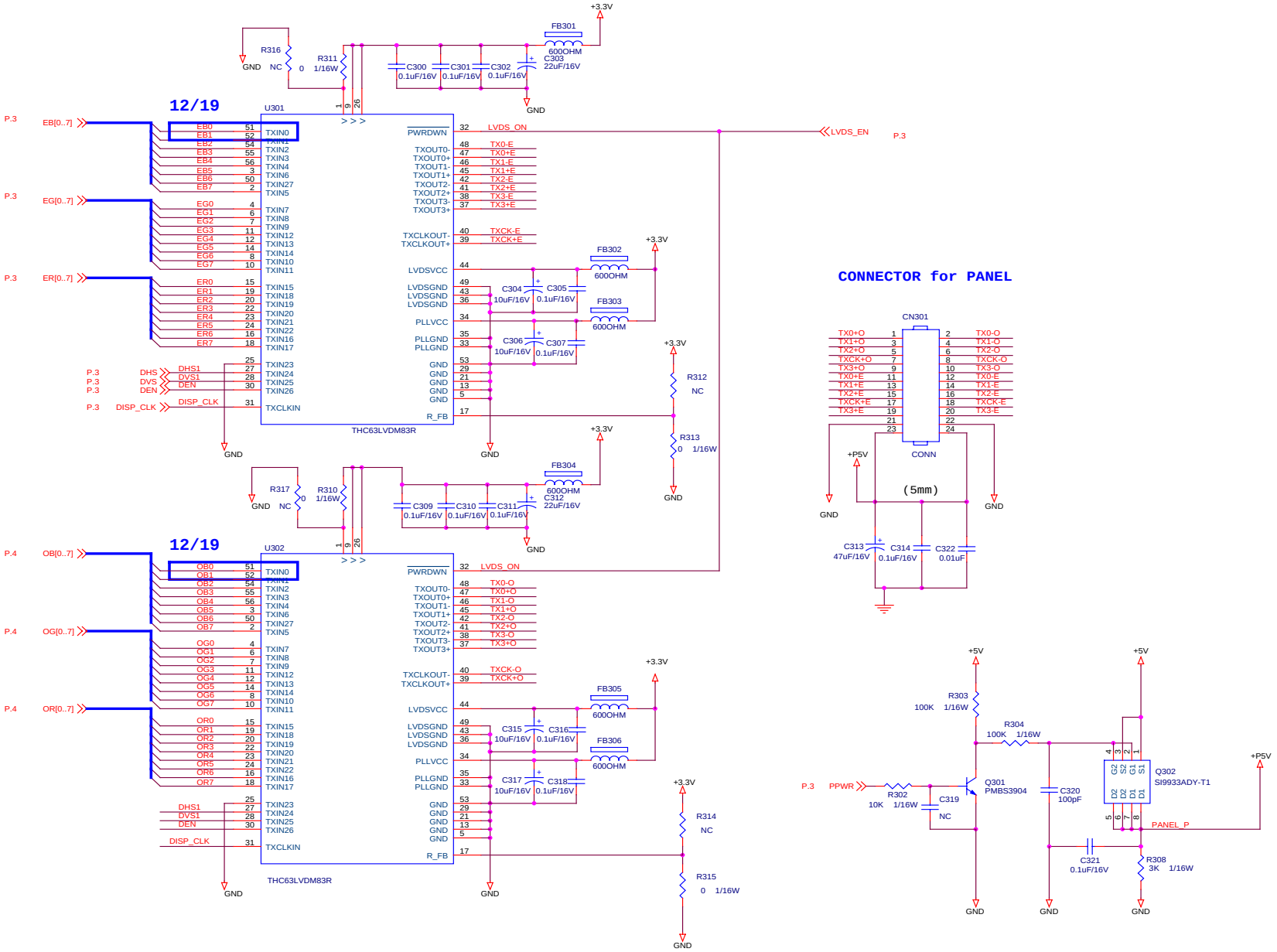
### 715L 972-1-6

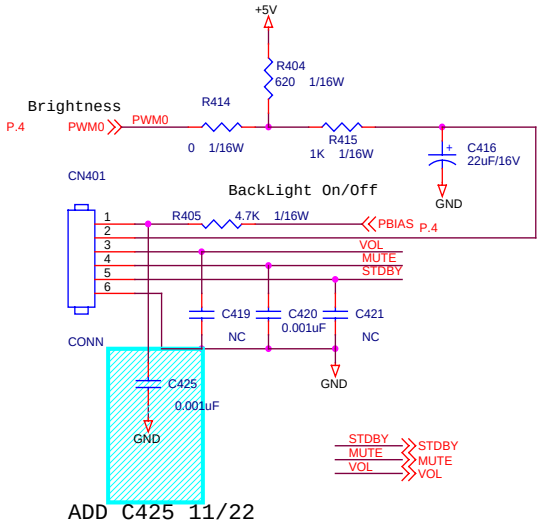





**BOOTSTRAP SIGNALS**

| ADDRESS | NAME | SET | DESCRIPTION |
|---|---|---|---|
| ROM_ADDR(4:0) | USER_BITS(4:0) | x | Available for reading from a status register |
| ROM_ADDR5 | Reserved | x | If using 6-wire host protocol, program this bit to 0 |
| ROM_ADDR6 | SCLPOL | x | Determines polarity of HCLK signal |
| ROM_ADDR7 | HOST_PROTOCOL | 0 | If using 6-wire host protocol, program this bit to 1 |
| ROM_ADDR8 | HOST_PORT_EN | 1 | GPIO(22:16) is on "Host Port" pins |
| ROM_ADDR9 | OCM_START | 1 | 1 = OCM becomes active after OCM_CLK is stable |
| ROM_ADDR(12:10) | USER_BITS(7:5) | x | Available for reading from a status register |
| ROM_ADDR13 | OSC_SEL | 0 | 0 = XTAL and TCLK pins are connected |
| ROM_ADDR14 | OCM_ROM_CFG(1) | 1 | 1 = All 48K of ROM is in external ROM |


12/19
U301
THC63LVDM83R
12/19
U302
THC63LVDM83R
CONNECTOR for PANEL
CN301
CONN
(5mm)
LVDS_EN
LVDS_ON
PANEL_P
PPWR
Q301
PMBS3904
Q302
SI9933ADY-T1
+3.3V
+5V
+P5V
GND

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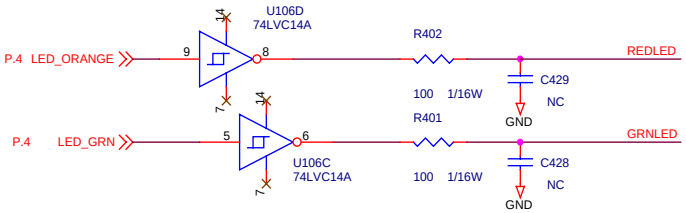
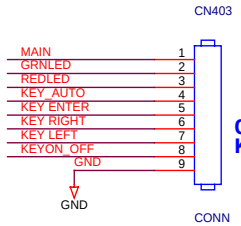
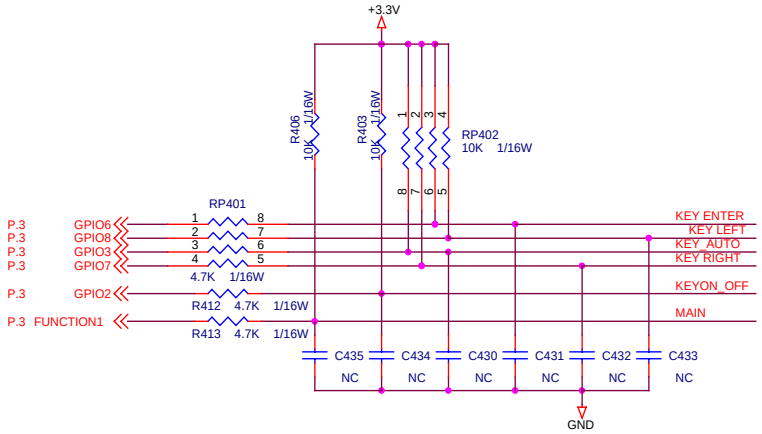
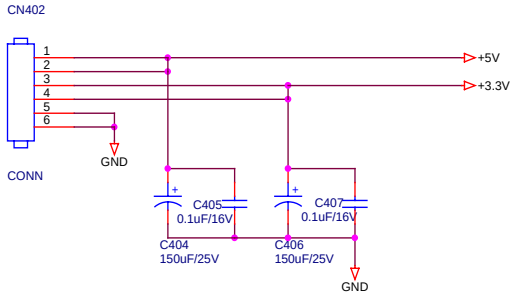


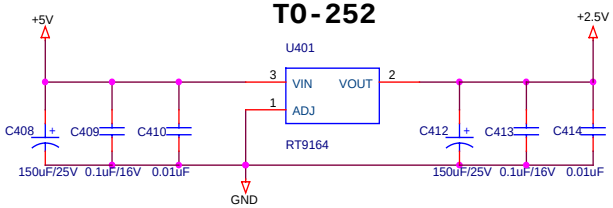

**CONNECTOR for KEYBOARD**



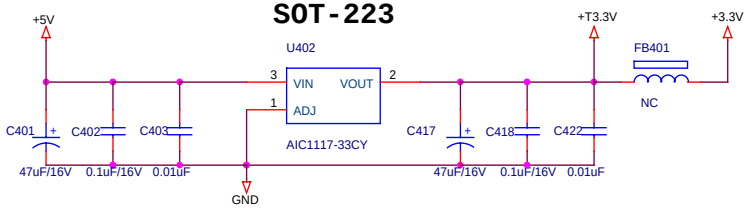

**CONNECTOR for POWER/INVERTER Board**




**TO-252**

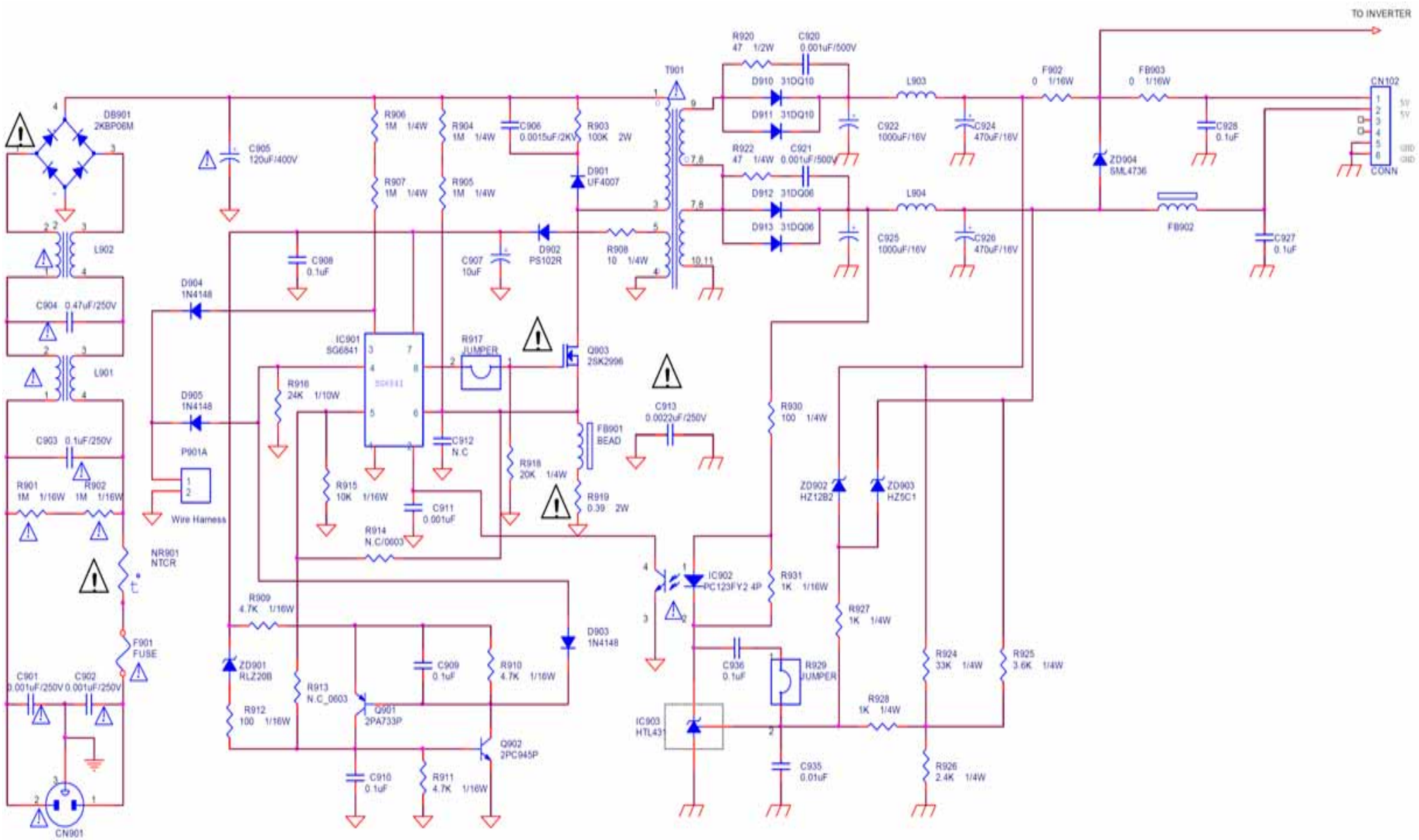


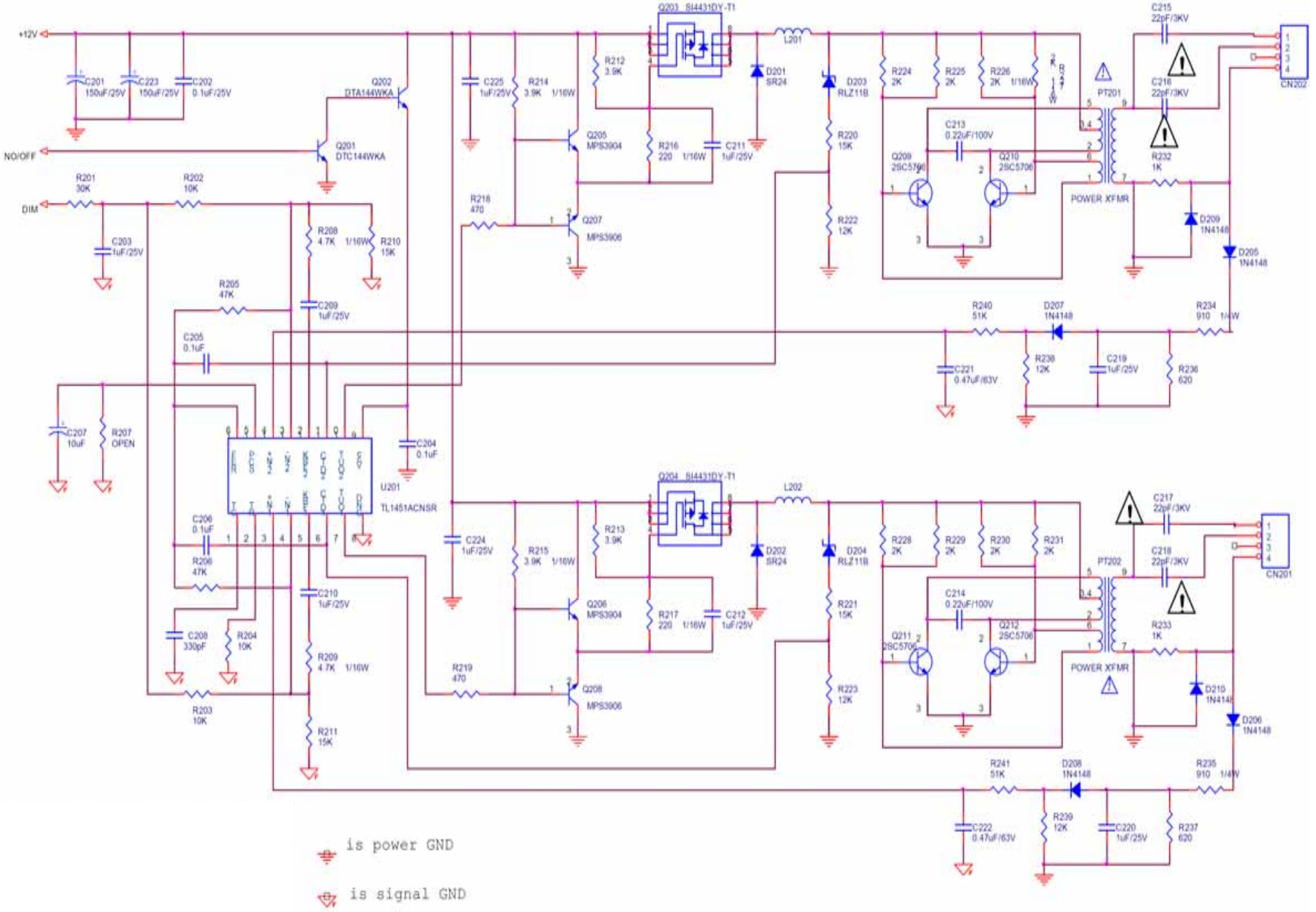

**SOT-223**



## 7.2 POWER BOARD

### 715L1013-1A-1

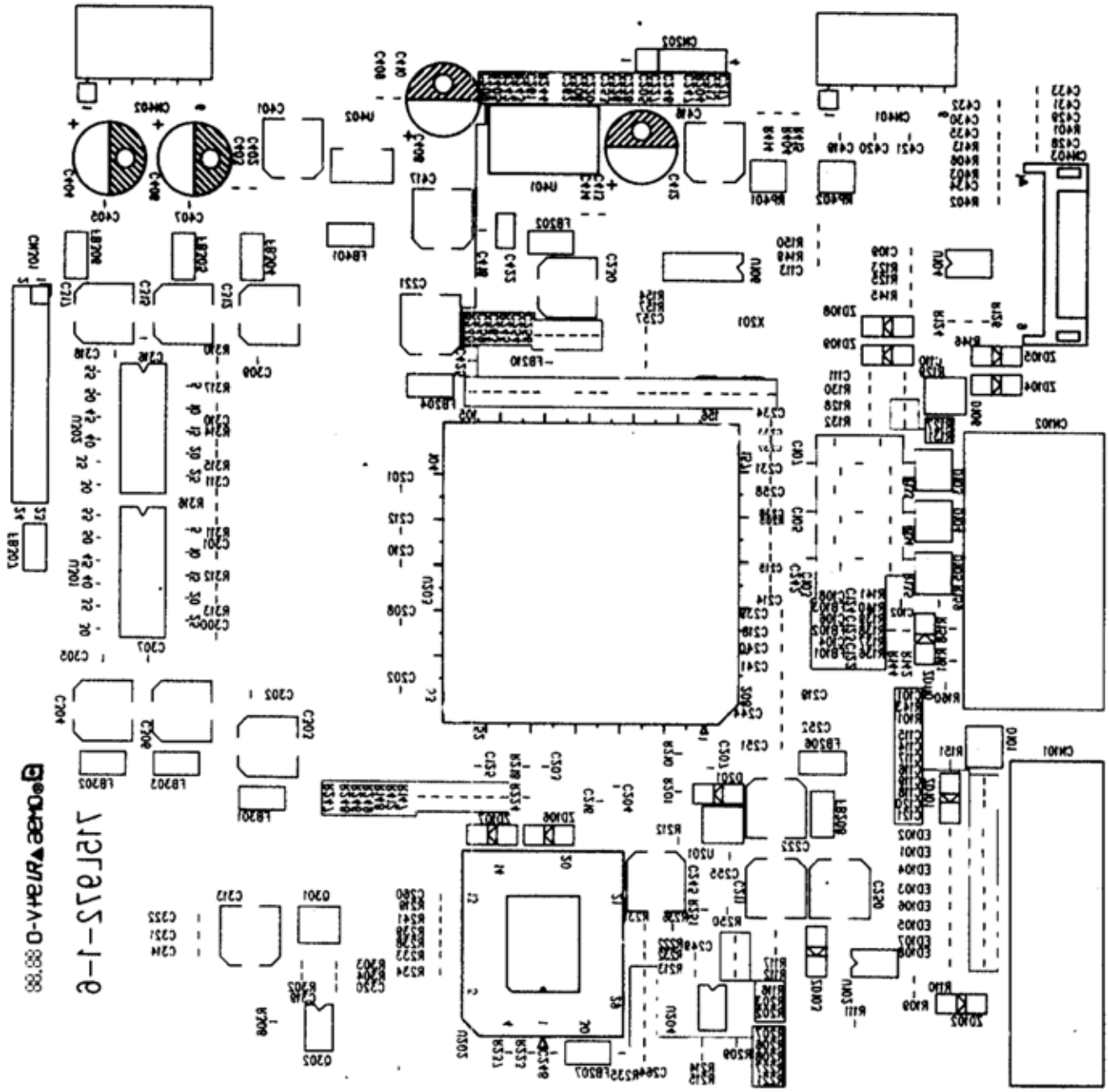



+12V
ON/OFF
DIM
C201 150uF/25V
C223 150uF/25V
C202 0.1uF/25V
Q202 DTA144WKA
Q201 DTC144WKA
R201 30K
R202 10K
C203 1uF/25V
R205 47K
C205 0.1uF
C207 10uF
R207 OPEN
C204 0.1uF
U201 TL1451ACNSR
C206 0.1uF
R206 47K
C208 330pF
R204 10K
R203 10K
C210 1uF/25V
R209 4.7K 1/16W
R211 15K
R208 4.7K 1/16W
R210 15K
C209 1uF/25V
C225 1uF/25V
R214 3.9K 1/16W
R212 3.9K
Q203 SI4431DY-T1
Q205 MPS3904
R216 220 1/16W
C211 1uF/25V
R218 470
Q207 MPS3906
D201 SR24
D203 RLZ11B
L201
R220 15K
R222 12K
R224 2K
R225 2K
R226 2K 1/16W
R227 1K 1/16W
C213 0.22uF/100V
Q209 2SC5706
Q210 2SC5706
PT201
POWER XFMR
C215 22pF/3KV
C216 22pF/3KV
R232 1K
CN202
D209 1N4148
D205 1N4148
R240 51K
D207 1N4148
R234 910 1/4W
C221 0.47uF/63V
R238 12K
C219 1uF/25V
R236 620
C224 1uF/25V
R215 3.9K 1/16W
R213 3.9K
Q204 SI4431DY-T1
Q208 MPS3904
R217 220 1/16W
C212 1uF/25V
R219 470
Q208 MPS3906
D202 SR24
D204 RLZ11B
L202
R221 15K
R223 12K
R228 2K
R229 2K
R230 2K
R231 2K
C214 0.22uF/100V
Q211 2SC5706
Q212 2SC5706
PT202
POWER XFMR
C217 22pF/3KV
C218 22pF/3KV
R233 1K
CN201
D210 1N4148
D206 1N4148
R241 51K
D208 1N4148
R235 910 1/4W
C222 0.47uF/63V
R239 12K
C220 1uF/25V
R237 620
is power GND
is signal GND

# 8. LAYOUT

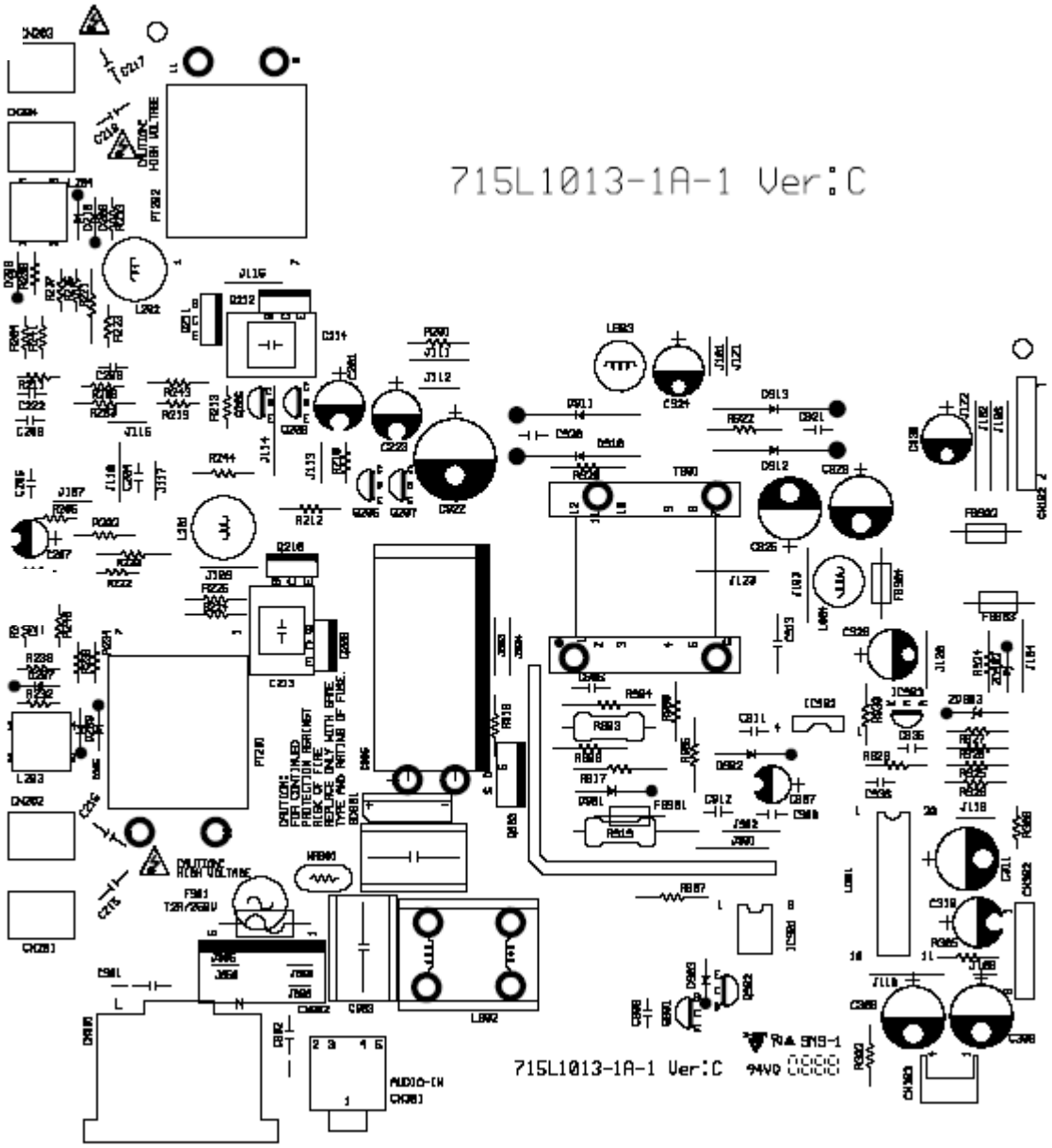
## 8.1 MAIN BOARD

### 715L 972-1-6



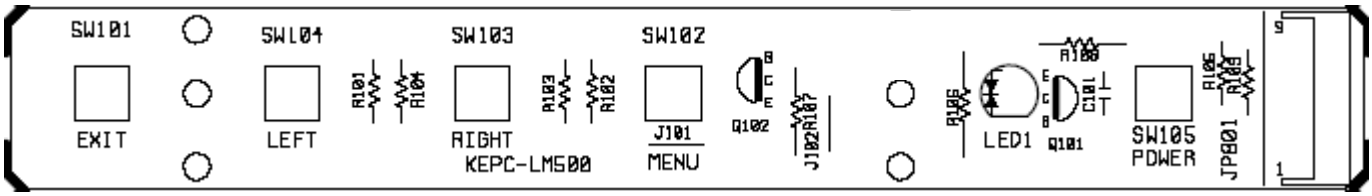
## 8.2 POWER BOARD

**715L1013-1A-1**




## 8.3 KEY BOARD

**715L 707-1-1**



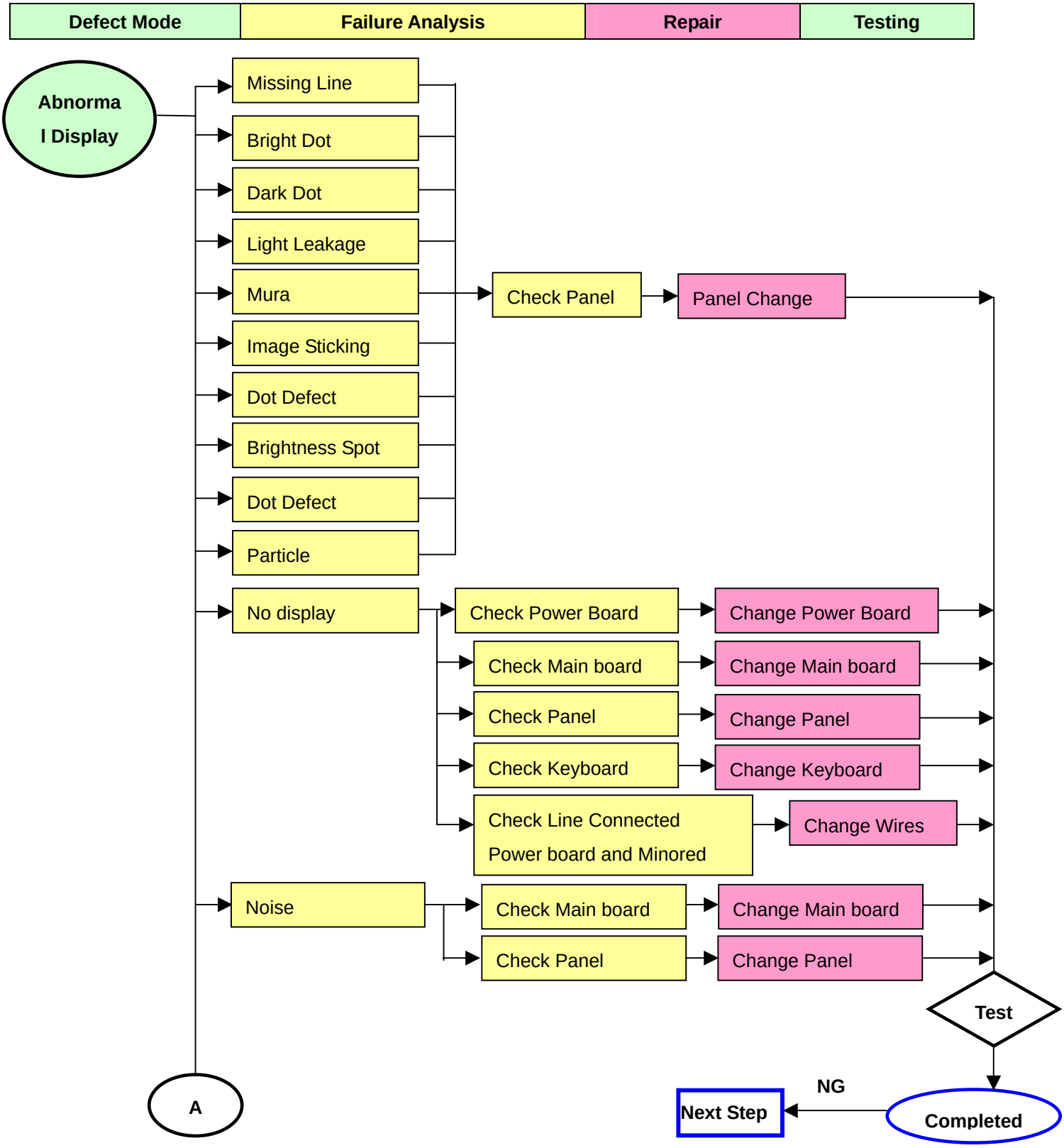
# 9. Maintainability

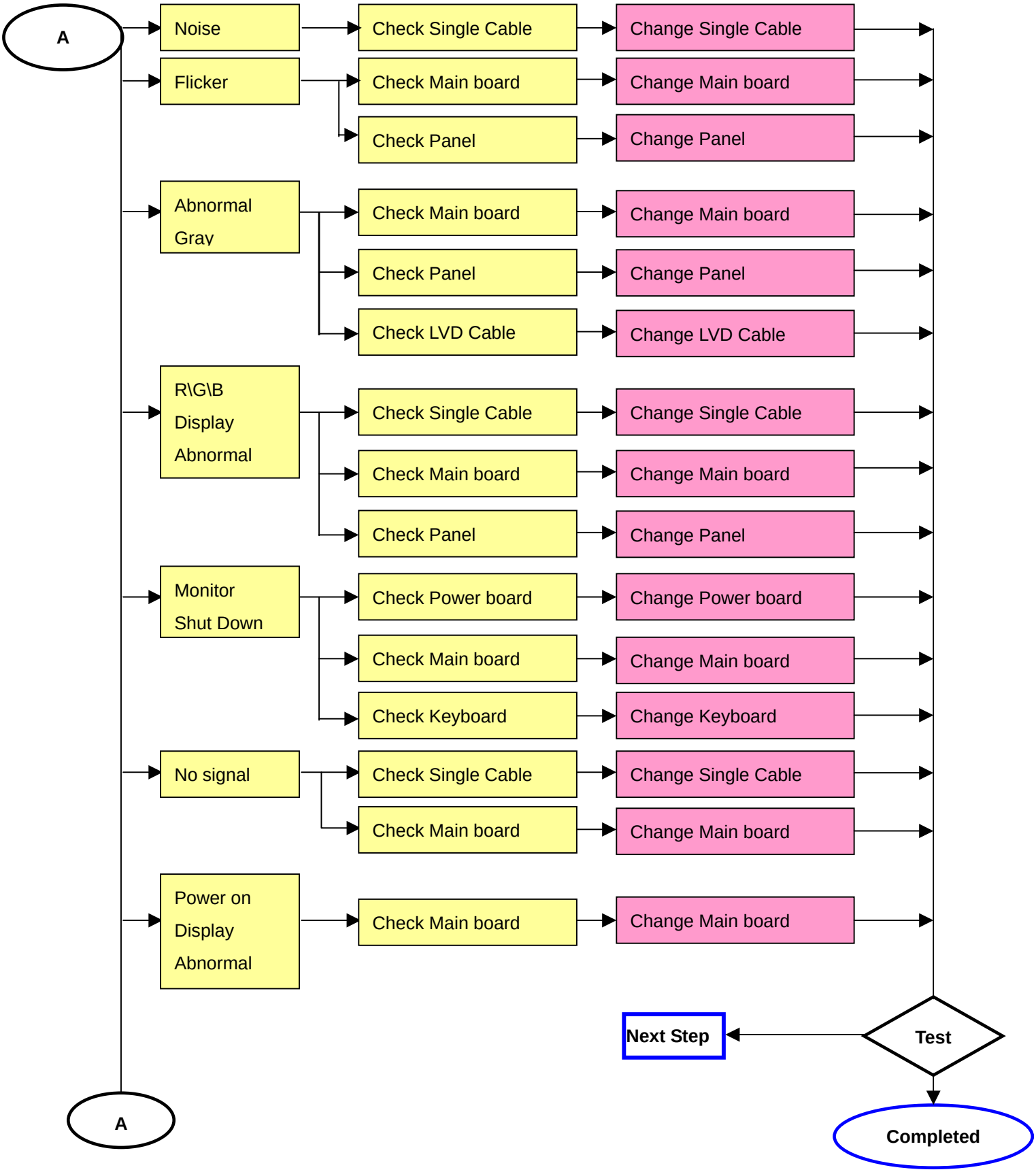
## 9.1 Equipments and Tools Requirement

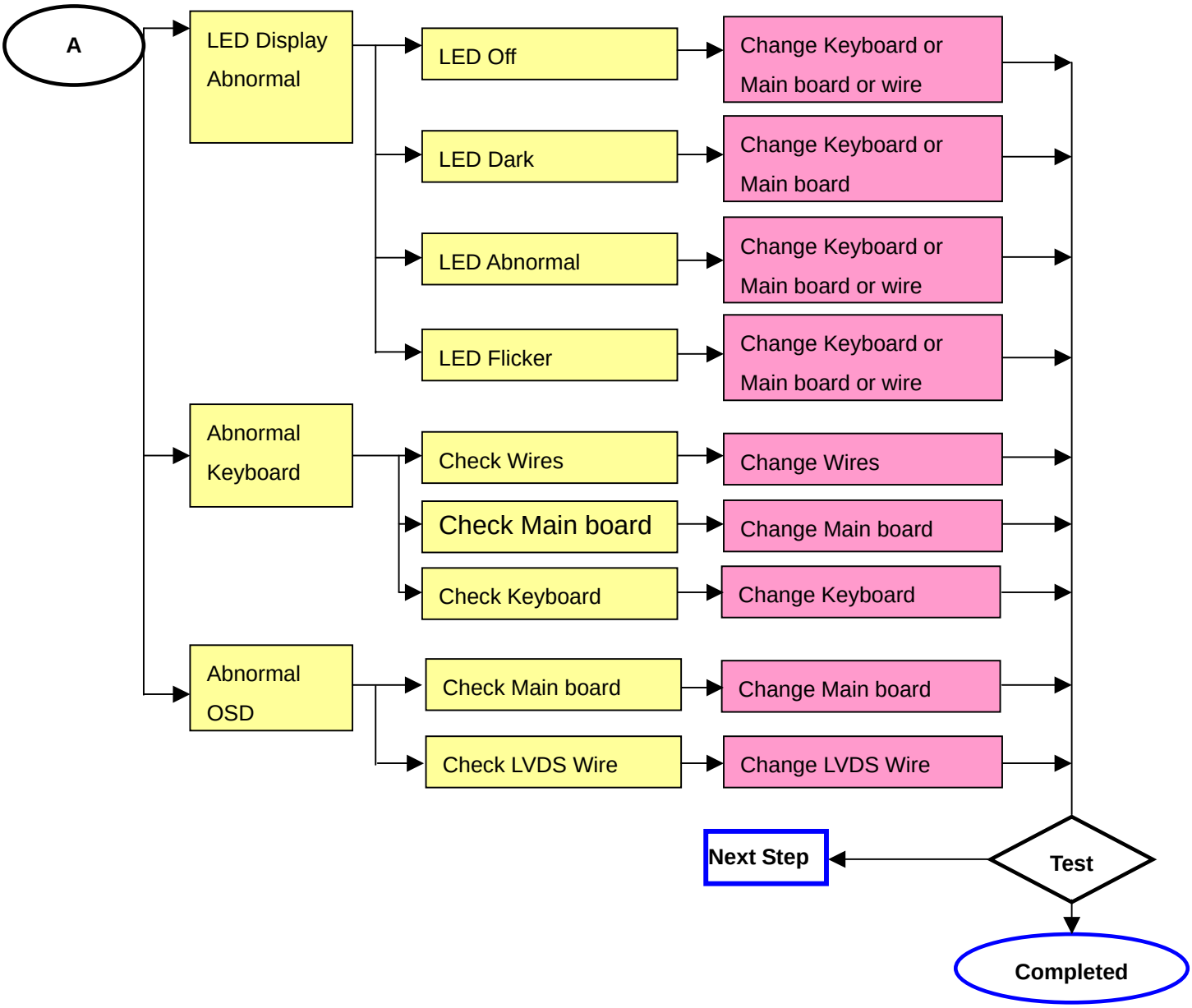
1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an IBM Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

## 9.2 TROUBLE SHOOTING

### 9.2.1 MAIN BOARD

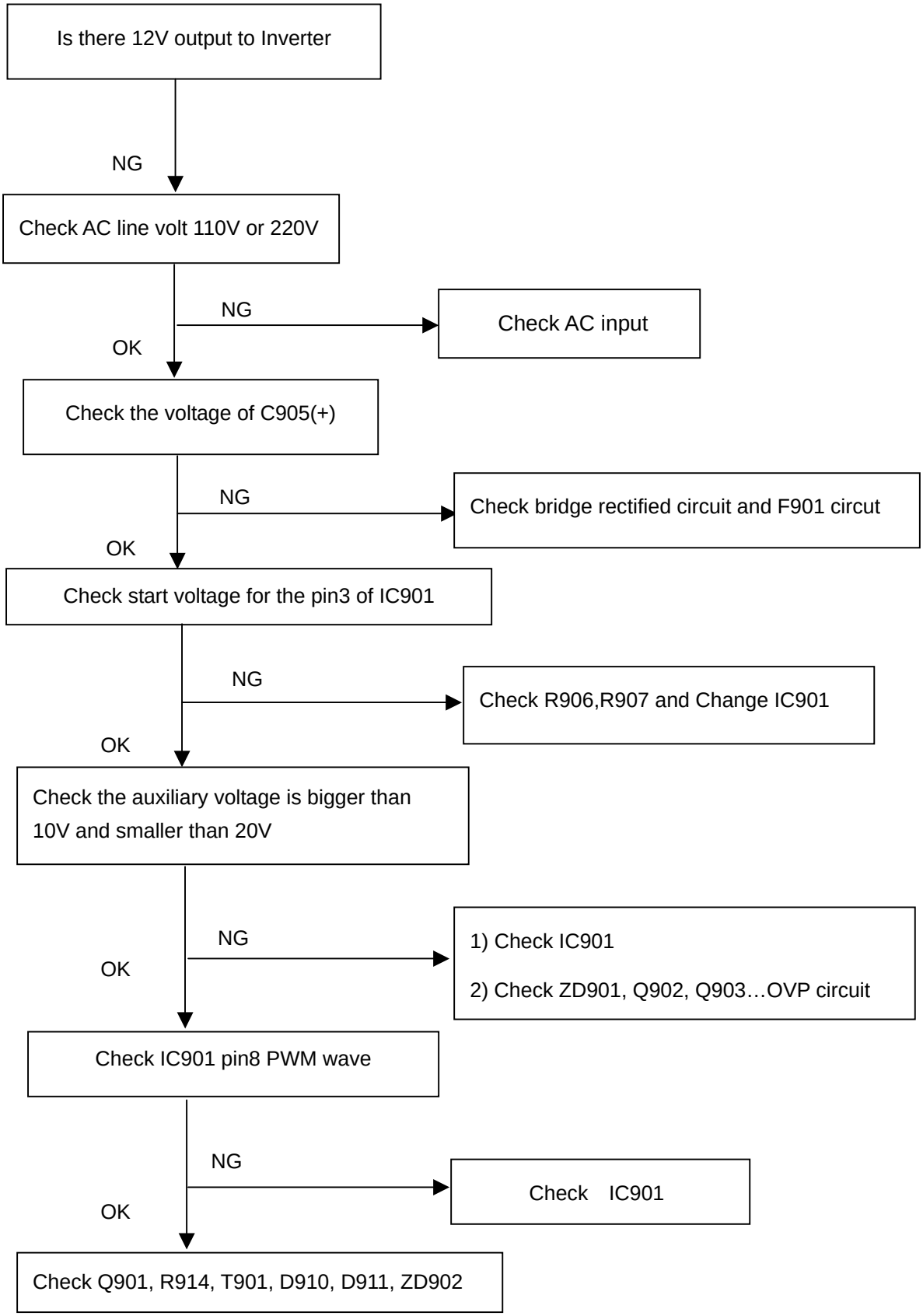



A
Noise
Flicker
Abnormal Gray
R\G\B Display Abnormal
Monitor Shut Down
No signal
Power on Display Abnormal
Check Single Cable
Check Main board
Check Panel
Check Main board
Check Panel
Check LVD Cable
Check Single Cable
Check Main board
Check Panel
Check Power board
Check Main board
Check Keyboard
Check Single Cable
Check Main board
Check Main board
Change Single Cable
Change Main board
Change Panel
Change Main board
Change Panel
Change LVD Cable
Change Single Cable
Change Main board
Change Panel
Change Power board
Change Main board
Change Keyboard
Change Single Cable
Change Main board
Change Main board
Test
Next Step
Completed
A

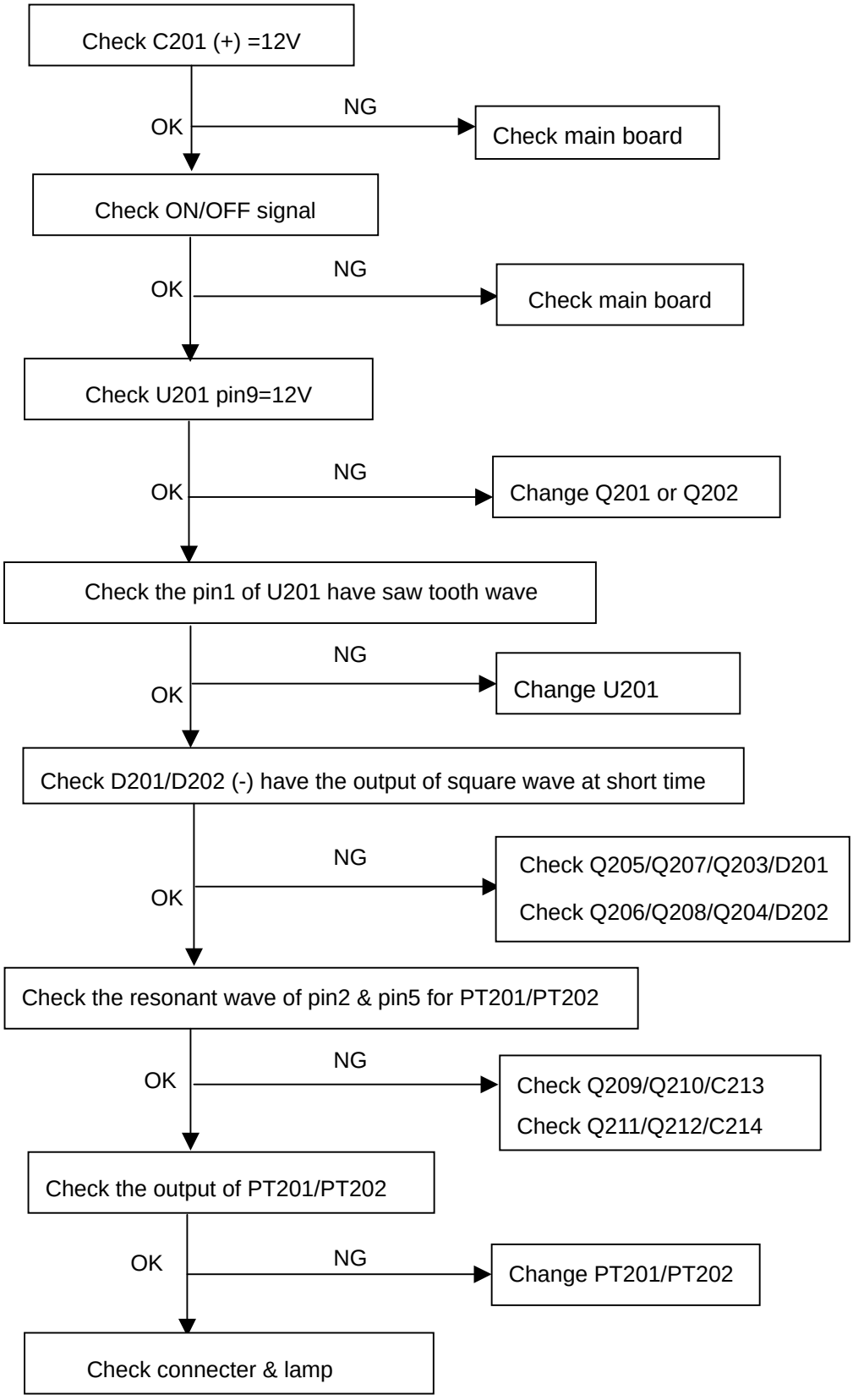

A
LED Display Abnormal
LED Off
Change Keyboard or Main board or wire
LED Dark
Change Keyboard or Main board
LED Abnormal
Change Keyboard or Main board or wire
LED Flicker
Change Keyboard or Main board or wire
Abnormal Keyboard
Check Wires
Change Wires
Check Main board
Change Main board
Check Keyboard
Change Keyboard
Abnormal OSD
Check Main board
Change Main board
Check LVDS Wire
Change LVDS Wire
Next Step
Test
Completed

### 9.2.3 POWER/INVERTER BOARD

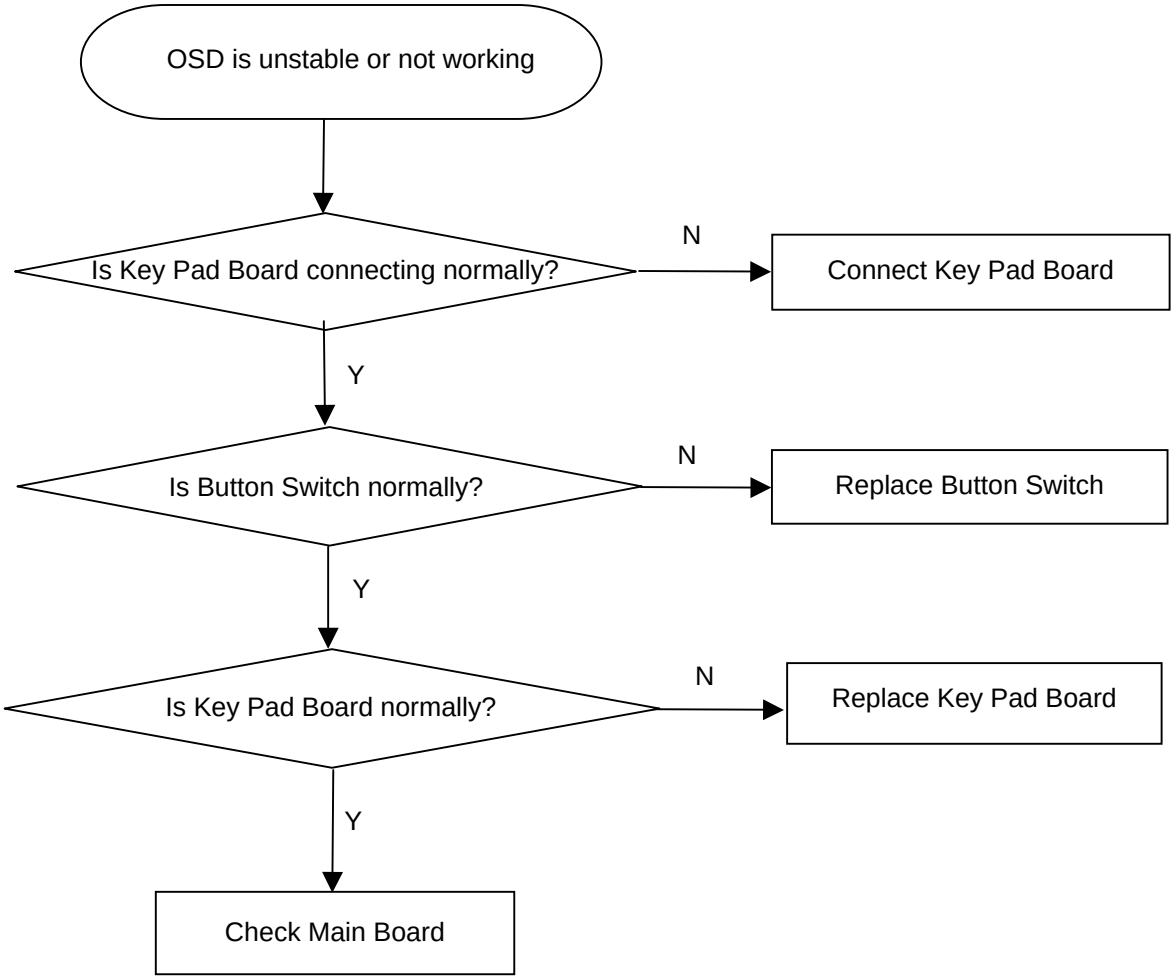
**1.) No power**



**2.) No Backlight**



### 9.2.2 KEYPAD BOARD



# 10. 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 XyY 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 = 296 ±30, y = 311 ±30, Y = 200 ±10 cd/$m^2$ ,

   B. MEM.CHANNEL 4 (6500 color):

   6500 color temp. parameter is x = 313±30, y = 329 ±30, Y = 200 ±10 cd/$m^2$

3. Into factory mode of EN7400e

   Press MENU button during 2 seconds along with press Power button will activate the factory mode, then MCU will do AUTO LEVEL automatically. Meanwhile press MENU the OSD screen will be located at **LEFT TOP OF 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 C2 (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 = 296 ±30, y = 311 ±30, Y = 200 ±10 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 C1 (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 ±30, y = 329 ±30, Y = 200 ±10 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 reachedthe 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.

# 11. CHECK LIST AFTER REPLACING LCD MAIN BOARD

**Check if white-balance is within the specs after replacing Main board and panel, then re-writing DDC is necessary.**

## 11.1 THE WHITE-BALANCE VALUE FOR EACH COMMON COLOR TEMPERATURE:

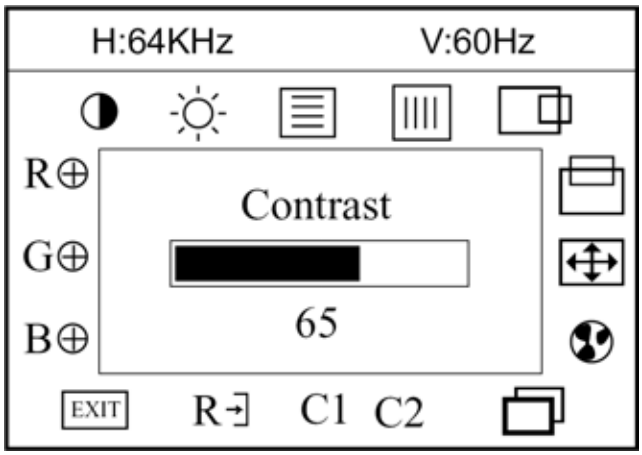
C1/ 6500 º K**:（warm color）** x = 313±30 ; y = 329±30;

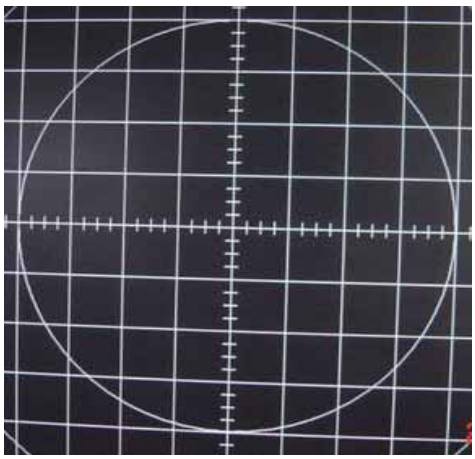
C2/ 7800 º K**:（cool color）** x=296±30 ; y = 311±30;

Remark: The color temperature value above must be up to the situation of x<y. The value of Y should be confirmed according to different customers. If Customer is AOC so that it's required to be larger than 170cd/cm$^2$ (Center). The exact brightness values are confirmed by the checking-regulations of different customers and different models.

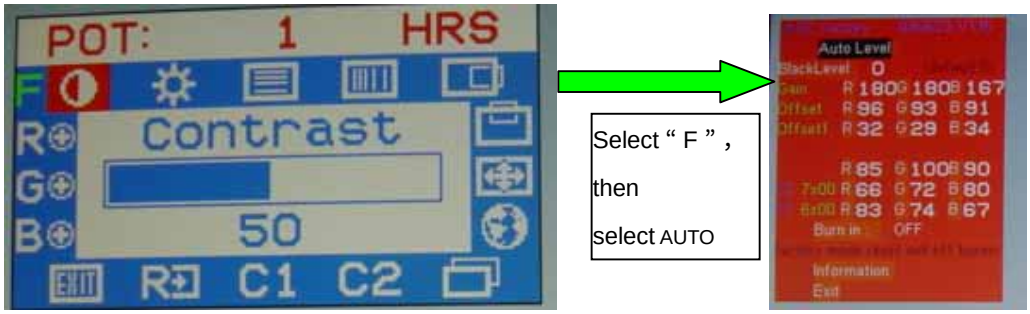
## 11.2 STEPSOF WHITE-BALANCE ADJUSTMENT FOR LCD:( example for 17" AOC LCD)

1. Required instruments: Chroma7120、Chroma2325（BGA265A）。
2. First connect the instruments together and turn on the LCD power, then warm up for 30 minutes under full white screen mode. First press the "Reset" key in the menu to recover factory set as following.



3. Set Chroma2325 at round-windows mode and make the detecting-head of Chroma7120 aim at the cross in the middle, the distance between the detecting-head and the cross is 20cm.
4. Set Chroma2325（BGA265A）to be T144（1280*1024/60HZ）and P105 of full white screen. Test if the white-balance value is within the specs. Please follow the steps below to adjust if it is beyond the specs.
5. Cut the power. Then press MENU key and supply power at the same time to enter into the factory mode. See the following pictures.




6. Test white-balance again after Auto Level. Adjustment with hand is necessary if it is beyond the specs just the same.

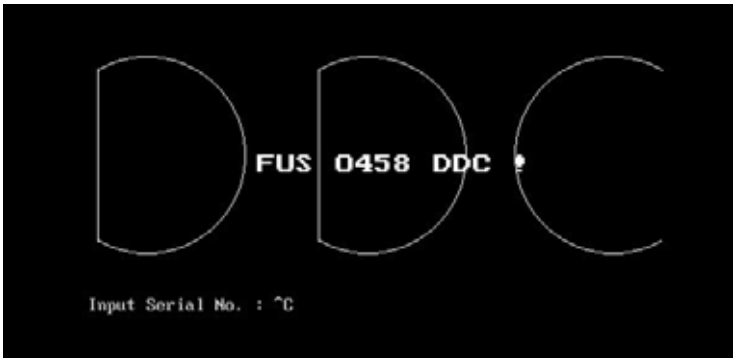
7. Select 7x00 item to adjust cool color-temperature and select 6x00 to adjust warm color- temperature. It can reach to the best effect through adjusting R/G/B value if it inclines to green or blue.
8. Select Exit to the upper menu after completing the adjustment. Then press POWER OFF to exit and save it.

## 11.3 STEPS FOR WRITING DDC：

1. Employ PC, and connect the DDC-writing instrument and the instrument that is ready for writing into DDC to the power of 12v. Connect the signal cable of the latter to D-USB or DVI of DDC-writing instrument (The data-writing of monitor needs transfer-interface) and link the DDC-writing instrument with PC through printer interface. (See the schematic picture below)

Connection of DDC-writing instrument for VGA.

2. Seek the document with the expanded name of .BAT in DDC file of this model. It appears the indication of “Input Serial No.：” after dual-click the document to be ready for DDC-writing.



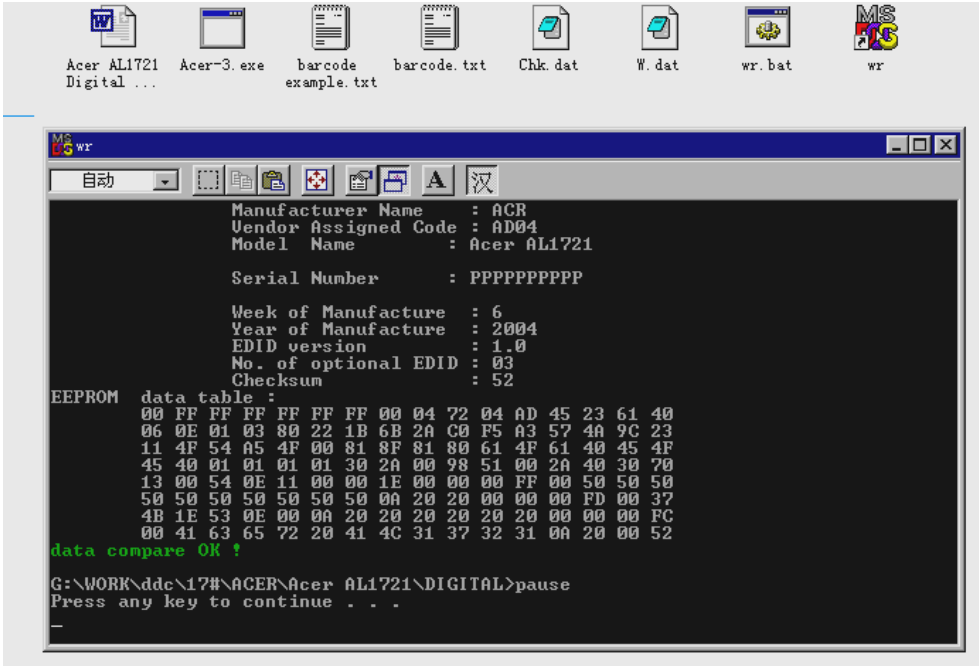

3.Input the serial number of the product (For instance: AOC LM729 is 13 bits), then press ENTER to start writing

4.Check the indication of DDC-writing program at the end. When you see the picture as the schematic picture above, the “Data compare OK!” means being written well and that’s the end. Please check if the Manufacturer Name, Vendor Assigned Code, Monitor Name, Serial Number, Week of Manufacture, Year of Manufacture are right. It will appear “Data compare error！” to indicate failure if the DDC-writing doesn’t

perform well. Please check the power resource and the connection of the signal cable, then return to step 3 by pressing ENTER and re-do it.

5.You can exit the program by pressing Ctrl plus C, then cut the signal cable and the power.

6.The following picture is taking Acer AL1721 EDID for example.




Notes:

1、Make sure the system time of PC is in accordance with the real time before writing.

2、The schematic picture is just as an example for description, the exact content of the DDC is dependent on the serial number of the BARCORD of this model.

3、Data DDC-writing needs a transfer interface.

## Instruction：DDC-writing needs 4 files:

1. Barcode.txt (Supply Barcode length and flow number)
2. *.EXE (DDC-writing program)
3. WR.bat (Group order file for cycling utilization of *EXE, and dual-click this file when perform DDC-writing)
4. w.dat The content with 128 bits of DDC

# 12. EDID

| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0: | 00 | FF | FF | FF | FF | FF | FF | 00 | 16 | 09 | 64 | E7 | 0B | 95 | 0D | 00 |
| 16: | 23 | 0E | 01 | 03 | 68 | 22 | 1B | 78 | 2A | 07 | A0 | A3 | 58 | 4F | 94 | 24 |
| 32: | 19 | 50 | 54 | BF | EF | 00 | 81 | 80 | 01 | 01 | 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 | 31 | 32 | 33 |
| 80: | 34 | 35 | 36 | 37 | 38 | 39 | 30 | 31 | 32 | 33 | 00 | 00 | 00 | FD | 00 | 37 |
| 96: | 4B | 1E | 53 | 0E | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 112: | 00 | 45 | 4E | 37 | 34 | 30 | 30 | 65 | 0A | 20 | 20 | 20 | 20 | 20 | 00 | 49 |

# 13. BOM LIST

**T782KQDNKIE6N**

| Part NO for TPV | Description | Quantity | Unit |
|---|---|---|---|
| M1G 330 6128 | SCREW | 4 | PCS |
| CBPC782KQDAO | CONVERSION BOARD | 1 | PCS |
| KEPC782KE5 | KEY BOARD FOR T781K*SNI | 1 | PCS |
| PWPC7425A1 | LCD POWER ASS'Y | 1 | PCS |
| 15G5689 2 A | GND CLAMP | 1 | PCS |
| 15G5709503 2 | MAIN FRAME | 1 | PCS |
| 15G5908 2 | BRACKET | 1 | PCS |
| 15G6054 L 1 | BRCKET(L) | 1 | PCS |
| 15G6054 R 1 | BRACKET(R) | 1 | PCS |
| 26G 800673 1A | ENVISION BARCODE LABEL | 1 | PCS |
| 33G4344 U0 1L | HINGE COVER (L) | 1 | PCS |
| 33G4344 U0 2L | HINGE COVER (R) | 1 | PCS |
| 33G4470 U2 L | POWER KEY PAD | 1 | PCS |
| 34G1001AD7 1L | FRONT PANEL | 1 | PCS |
| 40G 190673 5B | ID LABEL | 1 | PCS |
| 40G 459673 5A | LABEL | 1 | PCS |
| 40G 58162435A | LABEL | 1 | PCS |
| 41G780061513B | INPUT NOT SUPPORT CARD | 1 | PCS |
| 41G780067329D | Warranty card | 1 | PCS |
| 41G780067330B | Envision -kensington Ca | 1 | PCS |
| 41G780067331B | WARRANTY CARD | 1 | PCS |
| 41G780067337B | QSG | 1 | PCS |
| 44G3231 15 | EVA WASHER | 1 | PCS |
| 44G3705 1 | EPS | 1 | PCS |
| 44G3705 2 | EPS | 1 | PCS |
| 44G3705673 3B | CARTON | 1 | PCS |
| 45G 76 28 C | PE Bag For Manual | 2 | PCS |
| 45G 88607 | PE BAG FOR MONITOR | 1 | PCS |
| 45G 88609 B | EPE COVER | 1 | PCS |
| 50G 600 2 | HANDLE1 | 1 | PCS |
| 50G 600 3 | HANDLE2 | 1 | PCS |
| 52G 1185 | MIDDLE TAPE FOR CARTON | 120 | CM |
| 52G 1186 | SMALL TAPE | 8 | CM |
| 52G6025 11523 | INSULATE SHEET | 1 | PCS |
| 52G6025 11553 | INSULATE SHEET | 1 | PCS |

| | | | |
|---|---|---|---|
| 70G L17503EPI | DRIVER DISK | 1 | PCS |
| 85G6060500 1 | SHIELD | 1 | PCS |
| 89G1735GAA D1 | SIGNAL CABLE | 1 | PCS |
| 89G402A15N LS | POWER CORD | 1 | PCS |
| 95G8018 30504 | WIRE HARNESS | 1 | PCS |
| B1G1030 5128 | SCREW | 4 | PCS |
| M1G 330 4128 | SCREW M3X4 | 4 | PCS |
| M1G1130 6128 | SCREW | 9 | PCS |
| M1G1140 6128 | SCREW 4X6 | 1 | PCS |
| M1G1740 12128 | SCREW | 4 | PCS |
| Q1G 340 12128 | SCREW | 8 | PCS |
| Q1G 340 16128 | SCREW 4X16 | 4 | PCS |
| Q1G1030 10128 | SCREW | 2 | PCS |
| 750LLQ70L07 1 | QDI 17" L07 VER 3.0 PAN | 1 | PCS |

## PART LIST FOR MAIN BOARD

| Location | Part NO for TPV | Description | Quantity | Units |
|---|---|---|---|---|
| | AIC782KQDAO | MAIN BOARD | 1 | PCS |
| | 40G 457624 1B | LABEL-CPU | 1 | PCS |
| | 40G 45762412B | CBPC LABEL | 1 | PCS |
| | 715L 972 1 6 | PCB | 1 | PCS |
| C404 | 67G215C151 4H | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C406 | 67G215C151 4H | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C408 | 67G215C151 4H | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C412 | 67G215C151 4H | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| CN102 | 88G 35315FHAS | D-SUB 15PIN | 1 | PCS |
| CN301 | 33G801724A H | PIN HEADER 24P 2.0mm | 1 | PCS |
| CN401 | 33G8022 6A H | HEADER FEMALE 6P | 1 | PCS |
| CN402 | 33G8022 6A H | HEADER FEMALE 6P | 1 | PCS |
| CN403 | 33G3802 9H | WAFER 9P RIGHT ANELE PI | 1 | PCS |
| U202 | 56L1133 42 Q2 | A290011T-70 | 1 | PCS |
| X201 | 93G 22 53 | CRYSTAL 14.318MHzHC-49U | 1 | PCS |
| C102 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C103 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C104 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C105 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C106 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C107 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C108 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C109 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C113 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C125 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C201 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C202 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C203 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C204 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C205 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C206 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C207 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C208 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C209 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C210 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C211 | 67G 312101 3 | SMD 100UF +-20% 16V | 1 | PCS |

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|---|---|---|---|---|
| C212 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C213 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C214 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C215 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C216 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C217 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C218 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C219 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C220 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C226 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C227 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C228 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C231 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C232 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C233 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C234 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C238 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C239 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C240 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C241 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C242 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C244 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C245 | 67G 312100 3 | SMD 10UF +-20% 16V | 1 | PCS |
| C246 | 65G0603330 31 | CER1 0603 NP0 50V 33P P | 1 | PCS |
| C247 | 65G0603330 31 | CER1 0603 NP0 50V 33P P | 1 | PCS |
| C248 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C249 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C250 | 67G 312220 3 | SMD 22UF +-20% 16V | 1 | PCS |
| C251 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C252 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C253 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C254 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C255 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C256 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C257 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C258 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C259 | 65G0603330 31 | CER1 0603 NP0 50V 33P P | 1 | PCS |
| C260 | 65G0603470 32 | CHIP 47PF 50V X7R | 1 | PCS |

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|---|---|---|---|---|
| C261 | 65G0603470 32 | CHIP 47PF 50V X7R | 1 | PCS |
| C262 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C263 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C264 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C300 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C301 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C302 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C303 | 67G 312220 3 | SMD 22UF +-20% 16V | 1 | PCS |
| C304 | 67G 312100 3 | SMD 10UF +-20% 16V | 1 | PCS |
| C305 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C306 | 67G 312100 3 | SMD 10UF +-20% 16V | 1 | PCS |
| C307 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C309 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C310 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C311 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C312 | 67G 312220 3 | SMD 22UF +-20% 16V | 1 | PCS |
| C314 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C315 | 67G 312100 3 | SMD 10UF +-20% 16V | 1 | PCS |
| C316 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C317 | 67G 312100 3 | SMD 10UF +-20% 16V | 1 | PCS |
| C318 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C320 | 65G0603101 32 | 100PF +-10% 50V X7R | 1 | PCS |
| C321 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C322 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C402 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C403 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C405 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C407 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C409 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C410 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C413 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C414 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |
| C416 | 67G 312220 3 | SMD 22UF +-20% 16V | 1 | PCS |
| C418 | 65G0603104 12 | CER2 0603 X7R 16V 100N | 1 | PCS |
| C419 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C420 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C421 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C422 | 65G0603103 32 | 0.01UF +-10% 50V X7R | 1 | PCS |

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|---|---|---|---|---|
| C425 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C428 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C429 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C430 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C431 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C432 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C433 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C434 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| C435 | 65G0603102 32 | 1000PF +-10% 50V X7R | 1 | PCS |
| D103 | 93G 6433P | BAV99 | 1 | PCS |
| D104 | 93G 6433P | BAV99 | 1 | PCS |
| D105 | 93G 6433P | BAV99 | 1 | PCS |
| D106 | 93G 60230 | BAT54C(L43) | 1 | PCS |
| D201 | 93G 6432V | LL4148-GS08 | 1 | PCS |
| FB101 | 71G 59C800 | CHIP BEAD | 1 | PCS |
| FB102 | 71G 59C800 | CHIP BEAD | 1 | PCS |
| FB103 | 71G 59C800 | CHIP BEAD | 1 | PCS |
| FB202 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB204 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB206 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB207 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB208 | 61L1206000 | RST SM 1206 JUMP MAX 0R | 1 | PCS |
| FB210 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| FB301 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB302 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB303 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB304 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB305 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB306 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB307 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| FB401 | 71G 57G601 M | CHIP BEAD | 1 | PCS |
| Q301 | 57G 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q302 | 56L 566 6 | SI9953DY-T1 | 1 | PCS |
| R123 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R124 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R125 | 61L0603470 | RST SM 0603 RC0603 47R | 1 | PCS |
| R126 | 61L0603470 | RST SM 0603 RC0603 47R | 1 | PCS |
| R129 | 61L0603470 | RST SM 0603 RC0603 47R | 1 | PCS |

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|---|---|---|---|---|
| R130 | 61L0603470 | RST SM 0603 RC0603 47R | 1 | PCS |
| R131 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R132 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R133 | 61L0603750 9F | 75OHM 1% 1/10W | 1 | PCS |
| R134 | 61L0603750 9F | 75OHM 1% 1/10W | 1 | PCS |
| R135 | 61L0603750 9F | 75OHM 1% 1/10W | 1 | PCS |
| R136 | 61L0603121 | CHIPR 120 OHM 1/10W | 1 | PCS |
| R137 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R138 | 61L0603121 | CHIPR 120 OHM 1/10W | 1 | PCS |
| R139 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R140 | 61L0603121 | CHIPR 120 OHM 1/10W | 1 | PCS |
| R141 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R142 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R144 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R147 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R148 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R150 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R154 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R157 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R158 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R161 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R201 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R202 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R204 | 65G0603509 31 | CHIP 5PF +-0.5PF 50V NP | 1 | PCS |
| R205 | 61L0603100 1F | CHIP 1KOHM 1/10W 1% | 1 | PCS |
| R206 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R207 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R208 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R210 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R213 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R214 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R215 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R218 | 61L0603102 | RST SM 0603 RC0603 1K P | 1 | PCS |
| R219 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R221 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R222 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R223 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R224 | 61L0603621 | CHIPR 620 OHM+-5% 1/10W | 1 | PCS |

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|---|---|---|---|---|
| R227 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R231 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R235 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R238 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R240 | 61L0603470 | RST SM 0603 RC0603 47R | 1 | PCS |
| R242 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| R243 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| R244 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| R245 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R246 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R247 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R248 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| R249 | 71G 59C300 | CHIP BEAD | 1 | PCS |
| R250 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R251 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R302 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R303 | 61L0603104 | RST SM 0603 RC0603 100K | 1 | PCS |
| R304 | 61L0603104 | RST SM 0603 RC0603 100K | 1 | PCS |
| R308 | 61L0603302 | CHIPR 3K OHM +-5% 1/10W | 1 | PCS |
| R310 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R311 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R313 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R315 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R401 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R402 | 61L0603101 | RST SM 0603 RC0603 100R | 1 | PCS |
| R403 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R404 | 61L0603621 | CHIPR 620 OHM+-5% 1/10W | 1 | PCS |
| R405 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R406 | 61L0603103 | RST SM 0603 RC0603 10K | 1 | PCS |
| R412 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R413 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R414 | 61L0603000 | RST SM 0603 JUMP MAX 0R | 1 | PCS |
| R415 | 61L0603102 | RST SM 0603 RC0603 1K P | 1 | PCS |
| RP401 | 61L 125472 8 | CHIP AR 8P4R 4.7K OHM+- | 1 | PCS |
| RP402 | 61L 125103 8 | CHIP AR 8P4R 10KOHM +-5 | 1 | PCS |
| U104 | 56G1133 34 | M24C02-WMN6TP | 1 | PCS |
| U106 | 56G4LVC 14 P | 74LVC14ADT | 1 | PCS |
| U202 | 87L 202 32 | PLCC CONN 32PIN | 1 | PCS |

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|---|---|---|---|---|
| U203 | 56L 562 26 | gm2120 CG | 1 | PCS |
| U204 | 56G1133 56 | M24C16-WMN6TP | 1 | PCS |
| U301 | 56L 561 8 | THC63LVDM83R | 1 | PCS |
| U302 | 56L 561 8 | THC63LVDM83R | 1 | PCS |
| U401 | 56G 585 7 | RT9164-25PL | 1 | PCS |
| U402 | 56G 585 4 | AIC1117-33CY | 1 | PCS |
| ZD104 | 93G 39146 | LL5232B | 1 | PCS |
| ZD105 | 93G 39146 | LL5232B | 1 | PCS |
| ZD106 | 93G 39146 | LL5232B | 1 | PCS |
| ZD107 | 93G 39146 | LL5232B | 1 | PCS |
| ZD108 | 93G 39146 | LL5232B | 1 | PCS |
| ZD109 | 93G 39146 | LL5232B | 1 | PCS |
| ZD110 | 93G 39146 | LL5232B | 1 | PCS |

## PART LIST FOR KEY BOARD

| Location | Part NO for TPV | Description | Quantity | Unit |
|---|---|---|---|---|
| | AIK782KE5SMT | KEY BOARD FOR T782K* | 1 | PCS |
| | AIK782KE5 | KEY BOARD FOR T782K* | 1 | PCS |
| | 715L 707 1 1 | TF-1560 KEY BOARD (SMD) | 1 | PCS |
| JP801 | 95G8014 9517 | WIRE HARNESS | 1 | PCS |
| LED1 | 81G 12 1 GP | GP32032ME | 1 | PCS |
| SW101 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW102 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW103 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW104 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| SW105 | 77L 600 1GHJ | KEY SWITCH | 1 | PCS |
| C101 | 65G0805104 32 | CHIP 0.1U 50V X7R | 1 | PCS |
| Q101 | 57G 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| Q102 | 57G 417 4 | PMBS3904/PHILIPS-SMT(04 | 1 | PCS |
| R101 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R102 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R103 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R104 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R105 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R108 | 61G 60222152T | CFR 220OHM +-5% 1/6W | 1 | PCS |
| R109 | 61G 60210252T | CFR 1K OHM +-5% 1/6W | 1 | PCS |

## PART LIST FOR POWER BOARD

| Location | Part NO for TPV | Description | Quantity | Unit |
|---|---|---|---|---|
| | PWPC7425A1SMT | LCD POWER ASS'Y FOR SMT | 1 | PCS |
| | 40G 45762412B | CBPC LABEL | 1.03 | PCS |
| | 705L 780 57 02 | CN901 ASS'Y | 1 | PCS |
| | 705L 780 5702A | Q903 ASS'Y | 1 | PCS |
| | PWPC7425A1AI | LCD POWER ASS'Y FOR AI | 1 | PCS |
| | 715L1013 1A 1 | PCB | 1 | PCS |
| | 95T205S354022 | HARNESS | 1 | PCS |
| | 96T 29 6 | SHRINK TUBE UL/CSA | 20 | MM |
| | 90G 407 2 | HEAT SINK | 1 | PCS |
| | M1G1730 8128 | SCREW M3x8 | 1 | PCS |
| | 15G5791 1 | VESA BKT | 1 | PCS |
| | 33G4362 1 | LENS | 1 | PCS |
| | 34G 917 U0 L | SUPPORT FRONT | 1 | PCS |
| | 34G 918 U0 L | SUPPORT BACK | 1 | PCS |
| | 34G 919 U0 L | BASE | 1 | PCS |
| | 34G1081 U0A6L | BACK COVER | 1 | PCS |
| | 37G 448500 | LCD HINGE | 1 | PCS |
| | Q1G1030 10128 | SCREW | 2 | PCS |
| | Q1G1030 12128 | SCREW | 4 | PCS |
| BD901 | 93G 50460502 | KBP206G | 1 | PCS |
| C215 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C216 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C217 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C218 | 65L 3J2206ET | 22PF 5% 3KV TDK | 1 | PCS |
| C901 | 65G305M1022EM | Y2 1000PF +-20% 250VAC | 1 | PCS |
| C902 | 65G305M1022EM | Y2 1000PF +-20% 250VAC | 1 | PCS |
| C903 | 63G107K474 US | 0.47UF +-10% | 1 | PCS |
| C905 | 67G305S10114H | 100UF +-20% 400V | 1 | PCS |
| C906 | 65G 2K152 5E6921 | 1500 PF 10% 2KV Y5P | 1 | PCS |
| C913 | 65G306M4722B2 | Y1 4700PF +-20% 250VAC | 1 | PCS |
| C922 | 67G215L102 3R | LOW E.S.R 1000UF +/-20% | 1 | PCS |
| C925 | 67G215L102 3R | LOW E.S.R 1000UF +/-20% | 1 | PCS |
| CN102 | 33G8009 6N H | WAFER | 1 | PCS |
| CN201 | 33G8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN202 | 33G8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN203 | 33G8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |

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|---|---|---|---|---|
| CN204 | 33G8021 2D AC | CONN.2P R/A 87210-0236 | 1 | PCS |
| CN302 | 33G8009 6N H | WAFER | 1 | PCS |
| D910 | 93G3010 1 | 31DQ10FC | 1 | PCS |
| D911 | 93G3010 1 | 31DQ10FC | 1 | PCS |
| D912 | 93G3006 1 | 31DQ06FC | 1 | PCS |
| D913 | 93G3006 1 | 31DQ06FC | 1 | PCS |
| F901 | 84G 7H200 SL | 250V/2A LIHEL FUSE | 1 | PCS |
| FB901 | 71G 55 29 | FERRITE BEAD | 1 | PCS |
| IC901 | 56G 379 32 | SG6841DZ DIP-8 | 1 | PCS |
| IC902 | 56G 139 3A | PC123Y22FZOF | 1 | PCS |
| L201 | 73G 253139LSL | CHOKE COIL | 1 | PCS |
| L202 | 73G 253139LSL | CHOKE COIL | 1 | PCS |
| L203 | 73G 174 30YSA | FILTER | 1 | PCS |
| L204 | 73G 174 30YSA | FILTER | 1 | PCS |
| L903 | 73G 253 91 H | CHOKE COIL | 1 | PCS |
| L904 | 73G 253 91 H | CHOKE COIL | 1 | PCS |
| NR901 | 61G 58080 WT | 8 OHM NCT | 1 | PCS |
| PT201 | 80LL15T 7YSG | X'FMR | 1 | PCS |
| PT202 | 80LL15T 7YSG | X'FMR | 1 | PCS |
| Q209 | 57G 761 6 | 2SC5706-P-E | 1 | PCS |
| Q210 | 57G 761 6 | 2SC5706-P-E | 1 | PCS |
| Q211 | 57G 761 6 | 2SC5706-P-E | 1 | PCS |
| Q212 | 57G 761 6 | 2SC5706-P-E | 1 | PCS |
| R903 | 61G152M104 64 | 100KOHM 5% 2W | 1 | PCS |
| R919 | 61G 2J398 59 | 0.39 OHM 2W | 1 | PCS |
| T901 | 80LL17T 2 TG | X'FMR | 1 | PCS |
| C202 | 65G0805104 22 | 0.1UF +-10% 25V X7R 080 | 1 | PCS |
| C203 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C209 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C210 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C211 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C212 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C219 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C220 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C224 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C225 | 65G0805105 27 | CHIP 1UF Y5V 0805 | 1 | PCS |
| C910 | 65G0603104 37 | CHIP 0.1UF 50V/Y5V | 1 | PCS |
| C927 | 65G0603104 37 | CHIP 0.1UF 50V/Y5V | 1 | PCS |

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| D201 | 93G2004 2A | SM240A DO-214AC | 1 | PCS |
| D202 | 93G2004 2A | SM240A DO-214AC | 1 | PCS |
| D203 | 93G 39S 3 T | BZT52-C11 | 1 | PCS |
| D204 | 93G 39S 3 T | BZT52-C11 | 1 | PCS |
| F902 | 61L1206000 4 | 0 OHM 4A 1/4W | 1 | PCS |
| Q201 | 57G 760 5A | DTC 144WN3/S SOT-23 | 1 | PCS |
| Q202 | 57G 760 4A | DTA144WN3/S SOT-23 | 1 | PCS |
| Q203 | 57G 763 3B | AM9435P.T1-PF SO-8 | 1 | PCS |
| Q204 | 57G 763 3B | AM9435P.T1-PF SO-8 | 1 | PCS |
| R208 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R209 | 61L0603472 | RST SM 0603 RC0603 4K7 | 1 | PCS |
| R214 | 61L0603222 | RST SM 0603 RC0603 2K2 | 1 | PCS |
| R215 | 61L0603222 | RST SM 0603 RC0603 2K2 | 1 | PCS |
| R216 | 61L0603221 | RST SM 0603 RC0603 220R | 1 | PCS |
| R217 | 61L0603221 | RST SM 0603 RC0603 220R | 1 | PCS |
| R226 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R227 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R228 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R229 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R230 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R231 | 61L1206152 | CHIPR 1.5K OHM+-5%1/4W | 1 | PCS |
| R901 | 61L1206105 | CHIP 1MOHM 5% 1/4W | 1 | PCS |
| R902 | 61L1206105 | CHIP 1MOHM 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 |
| R912 | 61L1206101 | CHIP 100 OHM 5% 1/4W | 1 | PCS |
| R915 | 61L1206103 | CHIP 10KOHM 5% 1/4W | 1 | PCS |
| R916 | 61L0805240 2F | CHIP 24KOHM 1% 1/8W | 1 | PCS |
| R931 | 61L0603102 | RST SM 0603 RC0603 1K P | 1 | PCS |
| U201 | 56G 622 1 | BA9741F-SMT | 1 | PCS |
| ZD901 | 93G 39S 23 T | GLZ22B | 1 | PCS |
| ZD904 | 93G 39S 19 T | PTZ7.5B | 1 | PCS |
| C201 | 67G215C1514HT | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C204 | 64G700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C205 | 64G700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C206 | 64G700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C207 | 67G 305479 7T | 4.7UF 20% 50V 105 | 1 | PCS |

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| C208 | 65G 44233113T | 330PJNPO 50V | 1 | PCS |
| C221 | 64G701J4740AT | 0.47uF 50V | 1 | PCS |
| C222 | 64G701J4740AT | 0.47uF 50V | 1 | PCS |
| C223 | 67G215C1514HT | LOW ESR 150UF 25V 8*7MM | 1 | PCS |
| C905 | 6G 31502 | 1.5MM RIVET | 2 | PCS |
| C908 | 65G 450104 7T | 0.1UF +80-20% 50V Y5V | 1 | PCS |
| C909 | 64G700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| C911 | 64G700J1020AT | 1000PF 50V PEN | 1 | PCS |
| C920 | 65L517K102 5T6213 | 1000PF 10% Y5P 500V | 1 | PCS |
| C921 | 65L517K102 5T6213 | 1000PF 10% Y5P 500V | 1 | PCS |
| C924 | 67G215B4713HT | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C926 | 67G215B4713HT | 470UF 16V LTR471M1CF11V | 1 | PCS |
| C936 | 64G700J1040AT | 0.1UF 50V PEN | 1 | PCS |
| D205 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D206 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D207 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D208 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D209 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D210 | 93G 64 1152T | 1N4148 | 1 | PCS |
| D901 | 93G 6026T52T | RECTIFIER DIODE FR107 | 1 | PCS |
| D902 | 93G 6038T52T | FR103 | 1 | PCS |
| D903 | 93G 64 1152T | 1N4148 | 1 | PCS |
| FB902 | 71G 55 19 T | FERRITE BEAD D9X3. 5X0. | 1 | PCS |
| IC903 | 56G 158 4 T A | H431BA | 1 | PCS |
| L902 | 6G 31502 | 1.5MM RIVET | 4 | PCS |
| PT201 | 6G 31502 | 1.5MM RIVET | 2 | PCS |
| PT202 | 6G 31502 | 1.5MM RIVET | 2 | PCS |
| Q205 | 57G 417 3 T | MPS3904 | 1 | PCS |
| Q206 | 57G 417 3 T | MPS3904 | 1 | PCS |
| Q207 | 57G 414 2 | MPS3906 | 1 | PCS |
| Q208 | 57G 414 2 | MPS3906 | 1 | PCS |
| Q901 | 57G 420 PP T | 2PA733P | 1 | PCS |
| Q902 | 57G 419 PP T | 2PC945P | 1 | PCS |
| R201 | 61G 60230352T | 30KOHM 5% 1/6W | 1 | PCS |
| R202 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R203 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R204 | 61G 60210352T | CFR 10KOHM +-5% 1/6W | 1 | PCS |
| R205 | 61G 60247352T | 47KOHM 5% 1/6W | 1 | PCS |

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| R206 | 61G 60247352T | 47KOHM 5% 1/6W | 1 | PCS |
| R210 | 61G 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R211 | 61G 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R212 | 61G 60239252T | 3.9KOHM 5% 1/6W | 1 | PCS |
| R213 | 61G 60239252T | 3.9KOHM 5% 1/6W | 1 | PCS |
| R218 | 61G 60210152T | 100OHM +- 5% 1/6W | 1 | PCS |
| R219 | 61G 60210152T | 100OHM +- 5% 1/6W | 1 | PCS |
| R220 | 61G 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R221 | 61G 60215352T | 15KOHM 5% 1/6W | 1 | PCS |
| R222 | 61G 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R223 | 61G 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R224 | 61G 17215252T | CFR 1.5K OHM+-5% 1/4W | 1 | PCS |
| R225 | 61G 17215252T | CFR 1.5K OHM+-5% 1/4W | 1 | PCS |
| R232 | 61G 60210252T | CFR 1K OHM +-5% 1/6W | 1 | PCS |
| R233 | 61G 60210252T | CFR 1K OHM +-5% 1/6W | 1 | PCS |
| R234 | 61G 60291152T | CFR 910 OHM+-5% 1/6W | 1 | PCS |
| R235 | 61G 60291152T | CFR 910 OHM+-5% 1/6W | 1 | PCS |
| R236 | 61G 60268152T | 680 OHM 5% 1/6W | 1 | PCS |
| R237 | 61G 60268152T | 680 OHM 5% 1/6W | 1 | PCS |
| R238 | 61G 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R239 | 61G 60212352T | 12KOHM 5% 1/6W | 1 | PCS |
| R240 | 61G 60251352T | 51KOHM +-5% 1/6W | 1 | PCS |
| R241 | 61G 60251352T | 51KOHM +-5% 1/6W | 1 | PCS |
| R243 | 61G 17210252T | 1K OHM 5% 1/4W | 1 | PCS |
| R244 | 61G 17210252T | 1K OHM 5% 1/4W | 1 | PCS |
| R904 | 61L214Y10552T | 1M,1/4W | 1 | PCS |
| R905 | 61L214Y10552T | 1M,1/4W | 1 | PCS |
| R906 | 61L214Y75452T | 750KOHM 5% 1/4W | 1 | PCS |
| R907 | 61L214Y75452T | 750KOHM 5% 1/4W | 1 | PCS |
| R908 | 61G 17268952T | 6.8OHM 5% 1/4W | 1 | PCS |
| R917 | 61G 17210052T | 100HM 5% 1/4W | 1 | PCS |
| R918 | 61G 17210352T | CFR 10KOHM +-5% 1/4W | 1 | PCS |
| R920 | 61G 20747052T | 47 OHM 1/2W | 1 | PCS |
| R922 | 61G 20747052T | 47 OHM 1/2W | 1 | PCS |
| R924 | 61G 20033352T | 33KOHM 1% 1/4W | 1 | PCS |
| R925 | 61G 20036252T | 3.6KOHM 1% 1/4W | 1 | PCS |
| R926 | 61G 20024252T | 2.4KOHM 1% 1/4W | 1 | PCS |
| R927 | 61G 17210252T | 1K OHM 5% 1/4W | 1 | PCS |

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| R928 | 61G 17210252T | 1K OHM 5% 1/4W | 1 | PCS |
| R930 | 61G 17210152T | 100 OHM 5% 1/4W | 1 | PCS |
| T901 | 6G 31502 | 1.5MM RIVET | 4 | PCS |
| ZD902 | 93G 39 5452T | HZ12B2-E | 1 | PCS |
| ZD903 | 93G 39 7752T | HZ5C1-E | 1 | PCS |
| CN901 | 87T 501 12 CJ | AC SOCKET | 1 | PCS |
| Q903 | 57G 724 4A | STP9NK60ZEP | 1 | PCS |