SERVICE MANUAL

17” LCD Monitor
LM722

THESE DOCUMENTS ARE FOR REPAIR SERVICE INFORMATION ONLY. EVERY REASONABLE EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THIS MANUAL; WE CANNOT GUARANTEE THE ACCURACY OF THIS INFORMATION AFTER THE DATE OF PUBLICATION AND DISCLAIMS RE LIABILITY FOR CHANGES, ERRORS OR OMISSIONS.

Content List

Revision List

Revision	Date	Modification
A00	Mar-24-2004	

1. MONITOR SPECIFICATIONS

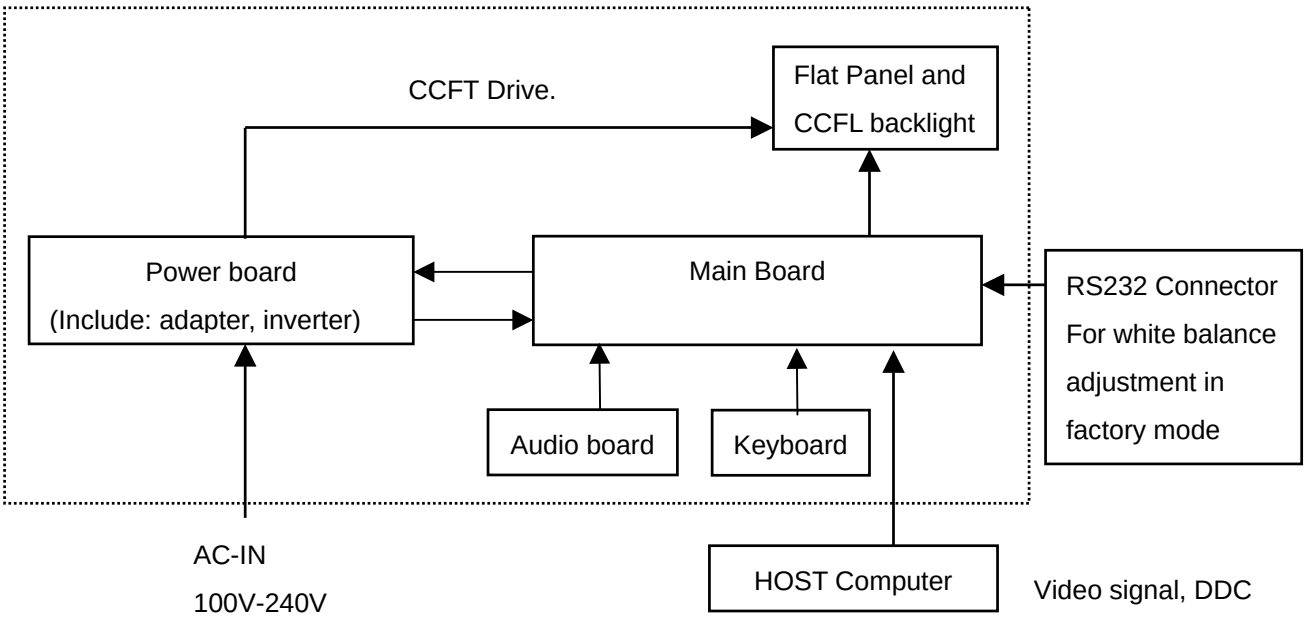
- 43.2 cm (17”) a-si TFT Active matrix LCD panel, 0.264mm pixel pitch.
- Microprocessor controlled scan technology
- 17 factory presets
- Vertical refresh rate 55Hz to 75 Hz
- Horizontal frequency 30kHz to 80kHz
- Resolutions: 640 x 480 up to 1280 x 1024
- Universal power supply designed for worldwide application
- CE mark
- TCO99 mark
- VESA DPMS compliant
- VESA DDC2B compliant

2. LCD MONITOR DESCRIPTION

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

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

Monitor Block Diagram



3. OPERATING INSTRUCTIONS

3.1 GENERAL INSTRUCTIONS

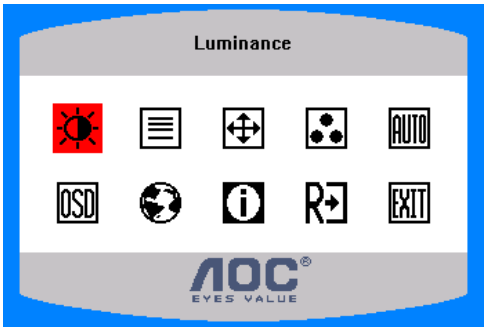
Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- 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	1. Exit Sub menu 2. Exit the menu item	Run the Auto Adjust when this button keep to push for 2 second
2	VOL - / ◄	1.Move the cursor to down 2.Adjust down when menu item selected	decreasing volume
3	Power	Turn on/off	Turn on/off
4	VOL + / ►	1.Move the cursor to up 2.Adjust up when menu item selected	increasing volume
5	MENU	1.Enter the OSD sub menu 2.Select the OSD menu	Open OSD menu

3.3 ADJUSTING THE PICTURE



The description for control function:

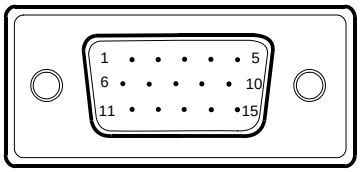
Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description
		Contrast		Contrast from Digital-register

		Brightness		Backlight Adjustment
Image Setup		Focus		Adjust Picture Phase to reduce Horizontal-Line noise
		Clock		Adjust picture Clock to reduce Vertical-Line noise.
Image Position		H. Position		Adjust the horizontal position of the picture.
		V. Position		Adjust the vertical position of the picture.
Color Temp.		Warm	N/A	Recall Warm Color Temperature from EEPROM.
		Cool	N/A	Recall Cool Color Temperature from EEPROM.
		User / Red		Red Gain from Digital-register.
		User / Green		Green Gain Digital-register.
		User / Blue		Blue Gain from Digital-register.
Auto Config		Yes	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.
		No	N/A	Do not execute Auto Config, return to main menu.
OSD Setup		H. Position		Adjust the horizontal position of the OSD.
		V. Position		Adjust the vertical position of the OSD.
		OSD Timeout		Adjust the OSD timeout.
Language		English	N/A	Set OSD display language to English.
		Deutsch	N/A	Set OSD display language to German.
		Français	N/A	Set OSD display language to French.
		Español	N/A	Set OSD display language to Spain.
		Italiano	N/A	Set OSD display language to Italian.
		Simplified Chinese	N/A	Set OSD display language to Simplified Chinese.
Information		Information	N/A	Show the resolution, H/V frequency and input port of current input timing.
Reset		Yes	N/A	Clear each old status of Auto-configuration and set the color temperature to Cool.
		No	N/A	Do not execute reset, return to main menu.
Exit		N/A	N/A	Exit OSD

4. Input/Output Specification

4.1 Input Signal Connector

4.1.1 Analog D-SUB Connector

PIN NO.	DESCRIPTION	PI N NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Logic Ground
3.	Blue	11.	RXD
4.	TXD	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) with a maximum of 1 half-wave missing per second
Voltage	: 12VDC ± 5
CURRENT	: 3.5 Amp (max)

4.4 PANEL SPECIFICATION

4.4.1 Display Characteristics

ITEM	SPECIFICATION
Display Area(mm)	337.920(H)x270.336(V) (17.0-inch diagonal)
Number of Pixels	1280(H)x1024(V)
Pixel Pitch(mm)	0.264(H)x0.264(V)
Color Pixel Arrangement	RGB vertical stripe
Display Mode	normally white, TN
Number of Colors	16.2M(6 Bit+FRC)
Brightness(cd/m^2)	300 cd/m^2(Typ.)(Center point, Lamp current=7.0 mA)
Viewing Angle	140/130(Typ.)
Surface Treatment	Anti-glare
Electrical Interface	LVDS , 2Ch
Total Module Power(W)	20.0 (Typ.)
Optimum Viewing Angle	6 o'clock
Module Size(mm)	358.5(W)x296.5(H)x17.5(D)
Module Weight(g)	2000(typ)
Backlight Unit	CCFL, 4 tables, edge-light(top*2/bottom*2)

4.4.2 Optical Specification

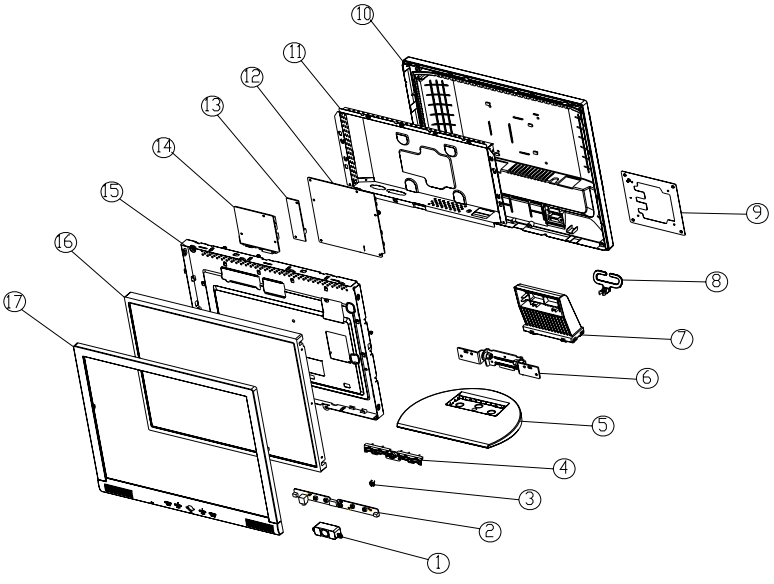
ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Contrast Ratio		CR	θ= ψ =0°	450	500	--	--
Luminance	Center	L	θ= ψ =0°	250	300	--	cd/m^2
	Uniformity	ΔL	θ= ψ =0°	75%	--	--	
Response Time		Tr	θ= ψ =0°	--	5	10	ms
		Tf	θ= ψ =0°	--	7	14	ms
Viewing Angle	Horizontal	ψ	CR≧5	80/80	85/85	--	°
	Vertical	θ		80/80	85/85	--	°
	Horizontal	ψ	CR≧10	60/60	70/70	--	°
	Vertical	θ		60/55	67/63	--	°
Color Coordinates	White	Wx Wy	θ= ψ =0°	0.283 0.299	0.313 0.329	0.343 0.359	--
	Red	Rx Ry		0.614 0.308	0.644 0.338	0.674 0.368	
	Green	Gx Gy		0.237 0.592	0.267 0.622	0.297 0.652	
	Blue	Bx By		0.110 0.054	0.140 0.084	0.170 0.114	
Image sticking		Tis	2 hour			2	sec
Crosstalk		CT				1%	
Flicker		f		--	--	-20	db
Gamut		CS		69%	72%		
Gamma		y	GL(32-223)	2.0	2.3	2.6	

4.4.3 ELECTRICAL SPECIFICATIONS

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Lamp Voltage	VL	540	600	660	Vrms	IL=7.0mA
Lamp Current	IL	3	7	7.5	mArms	Note1,2
Interter Frequency	FL	45	50	65	kHz	Note3,4
Starting Lamp Voltage	VS	1710	--	--	Vrms	Tb=0℃
		1320	--	--	Vrms	Ta=25℃

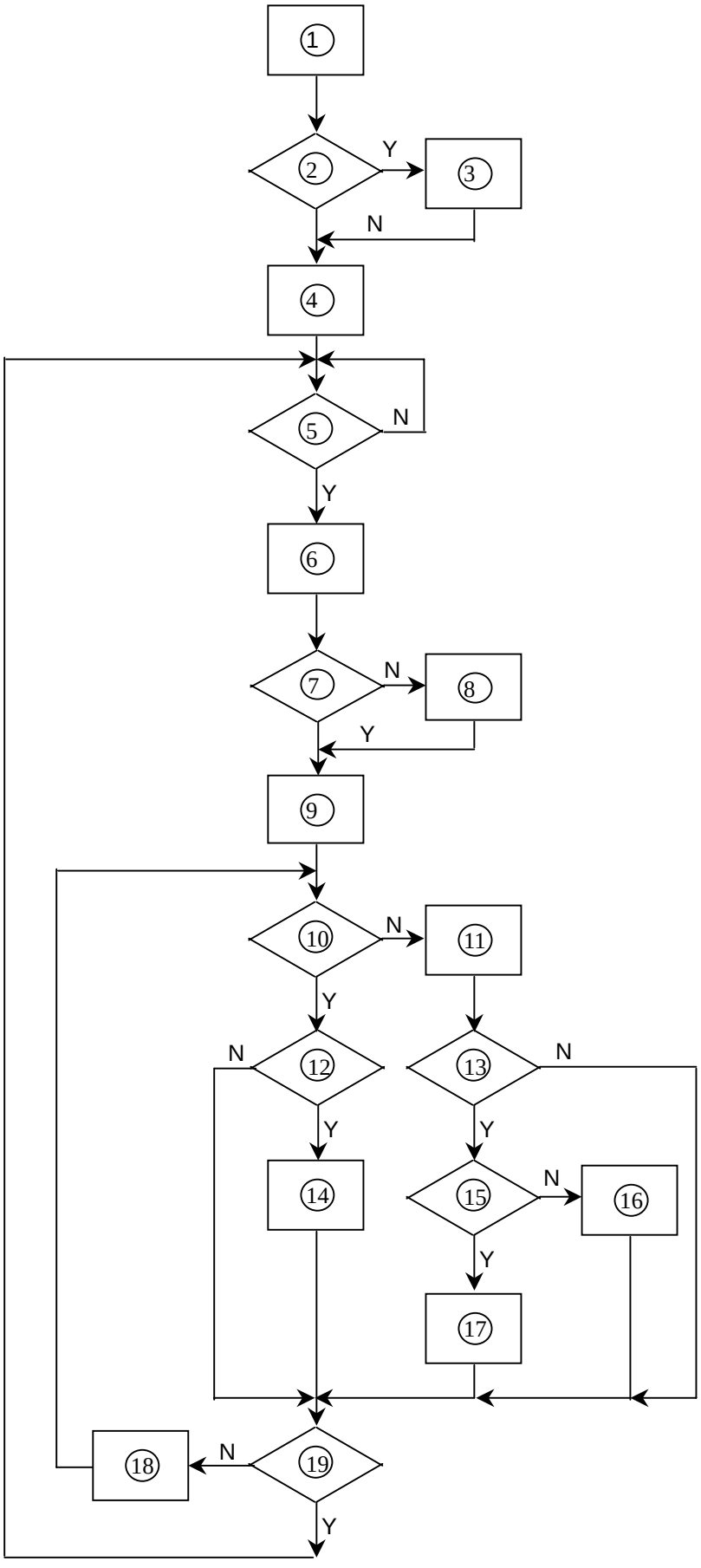
5. Block Diagram

5.1 Monitor Explored



ITEM	NAME	TYPE
1	SPEAKER	PART
2	KEY BOARD	ASSEMBLE
3	LED	PART
4	KEY PAD	PART
5	BASE	PART
6	HINGE	PART
7	STAND	PART
8	CLAMP	PART
9	VESA BKT	PART
10	REARCOVER	PART
11	MAIN SHIELD	PART
12	POWER BOARD	ASSEMBLE
13	AUDIO BOARD	ASSEMBLE
14	MAIN BOARD	ASSEMBLE
15	MAIN FRAME	PART
16	PANEL	PART
17	BEZEL	PART

5.2 Software flowing Chart

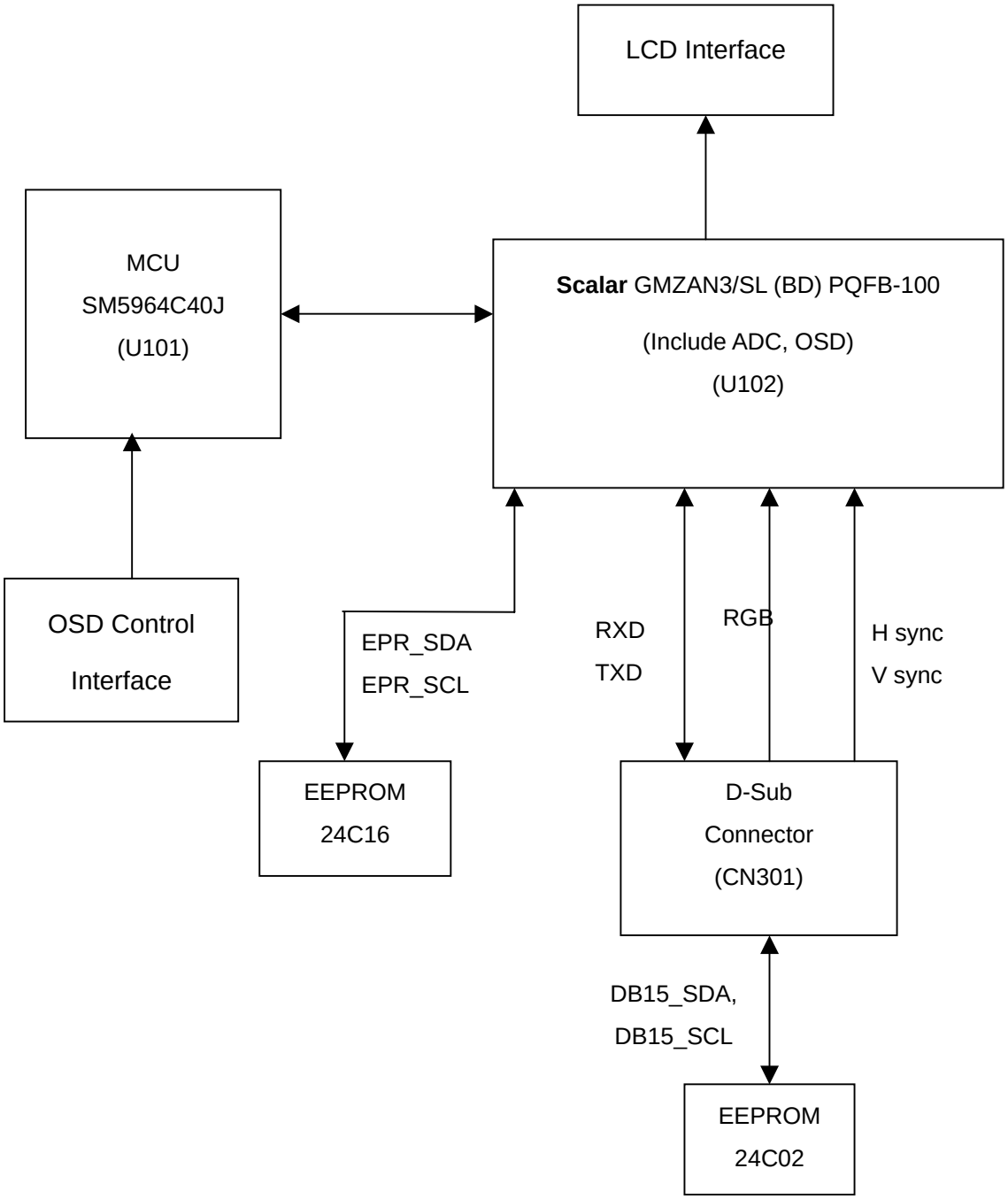


Remark:

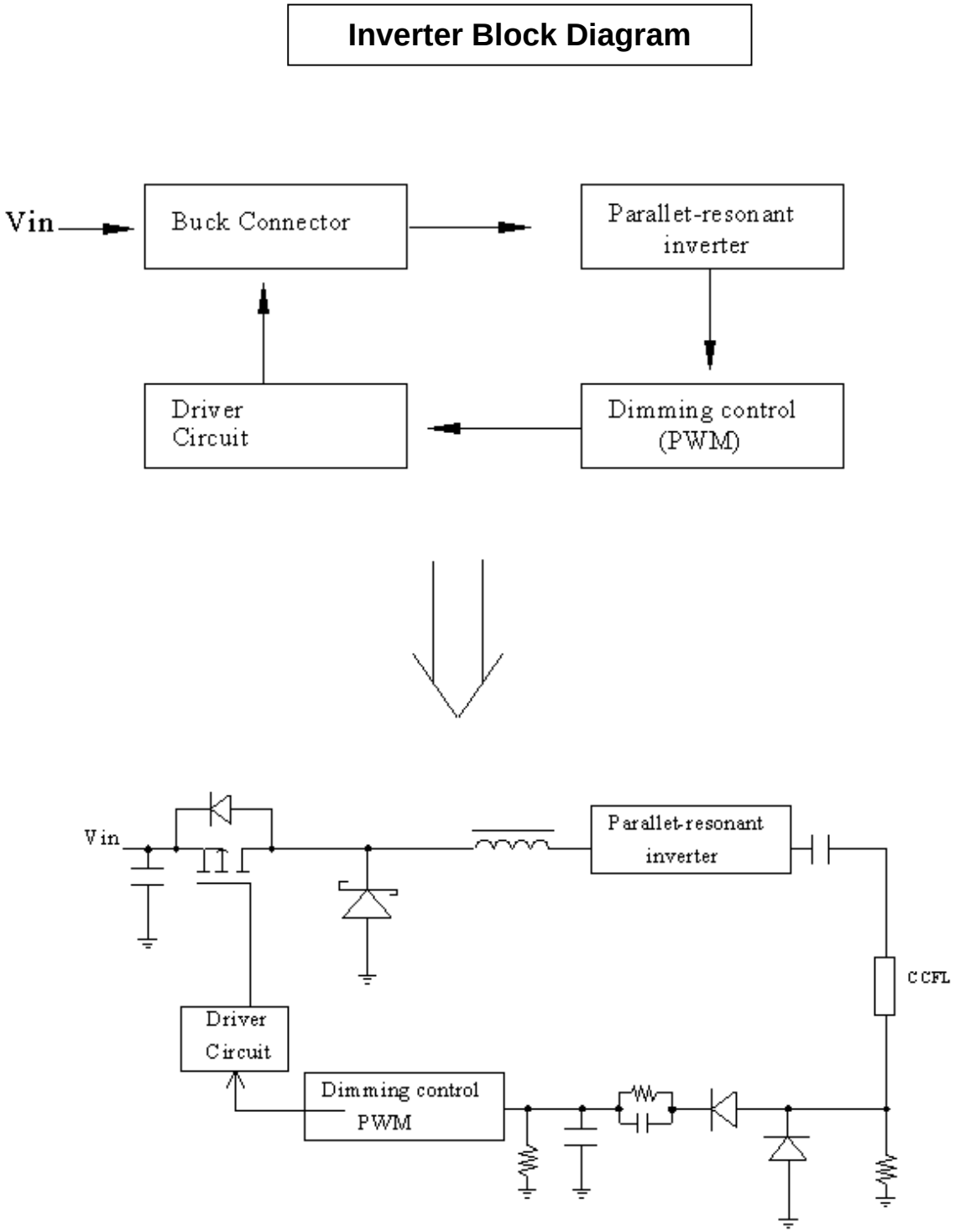
1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom. Turn on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

5.2 Electrical Block Diagram

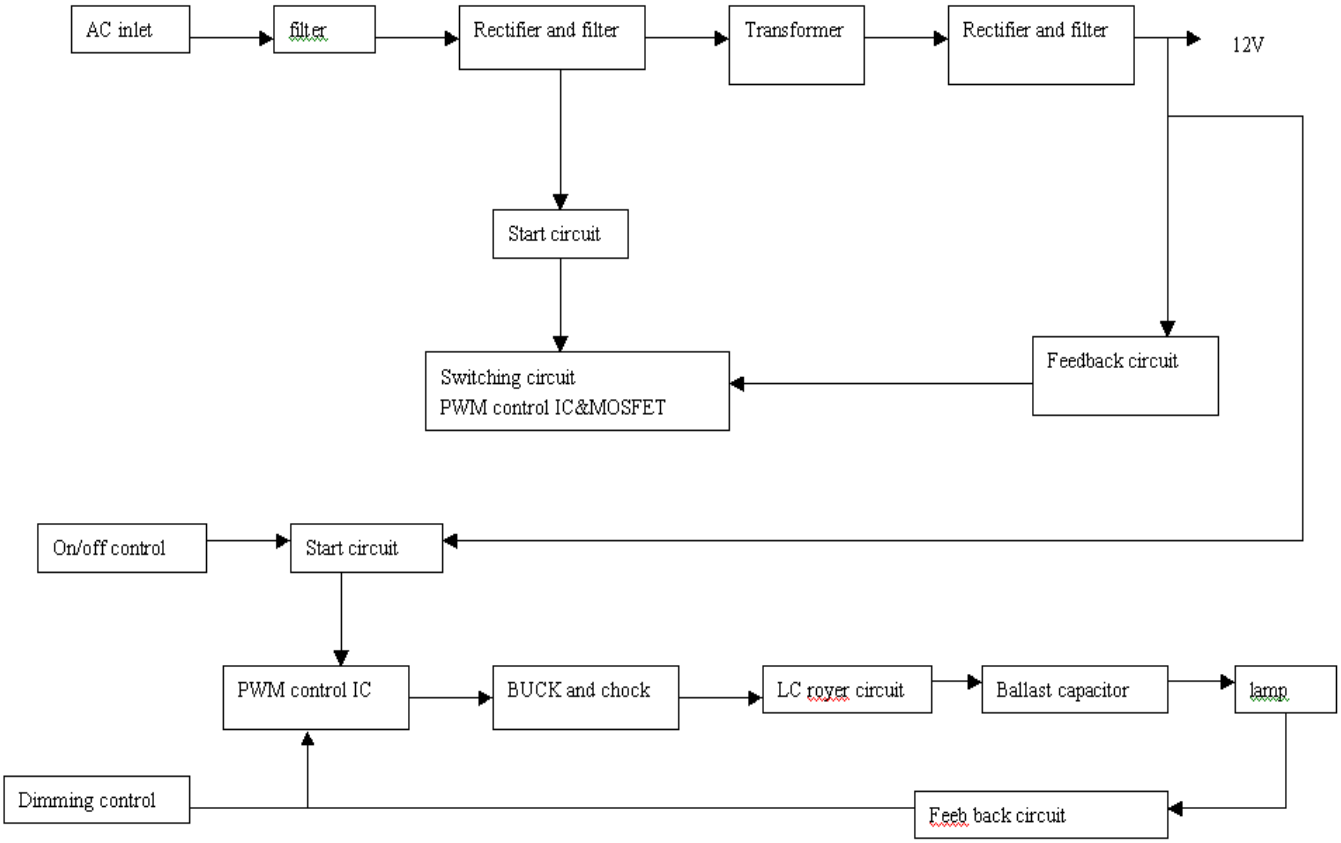
5.2.1 Main Board



5.2.2 Inverter/Power Board

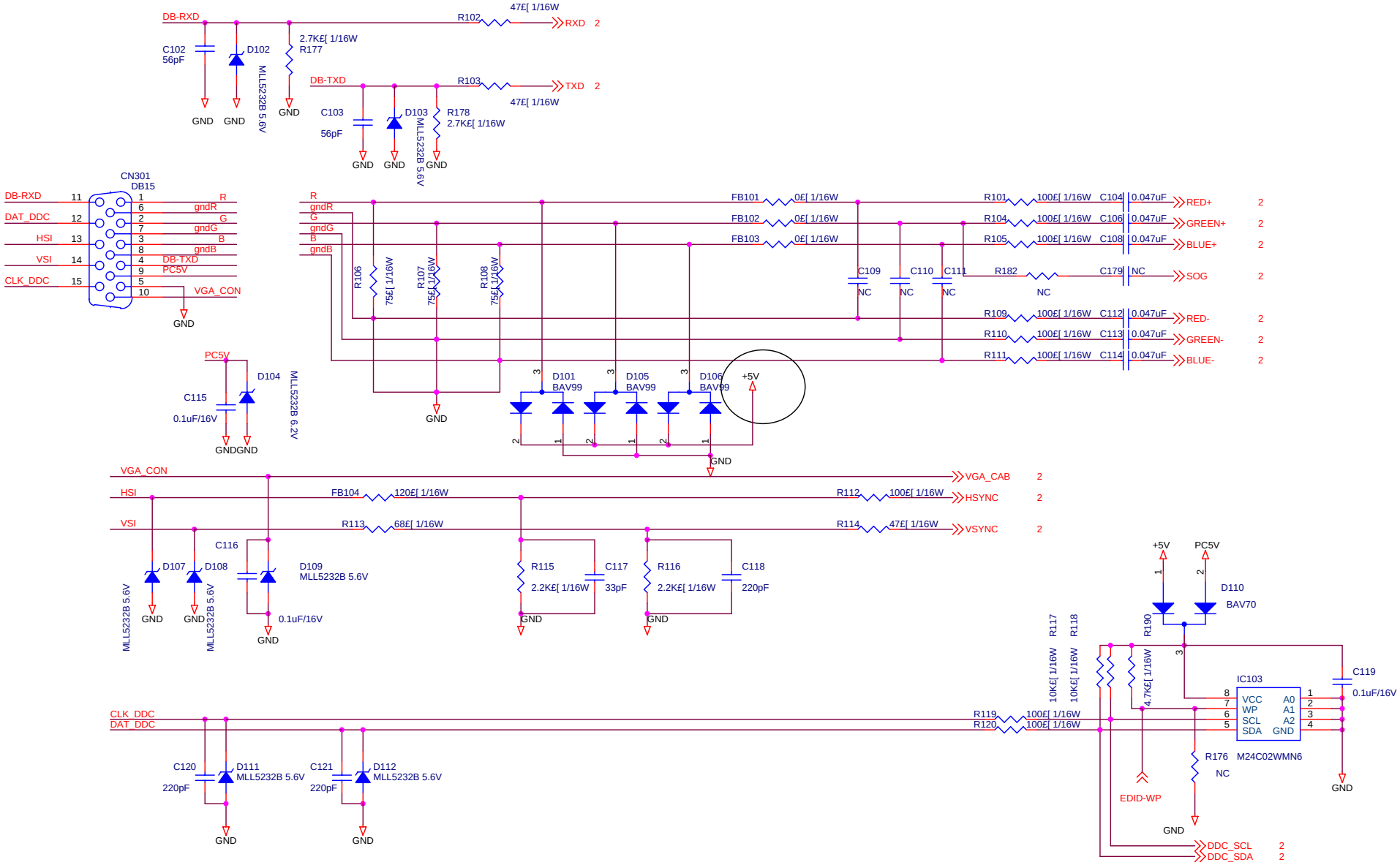


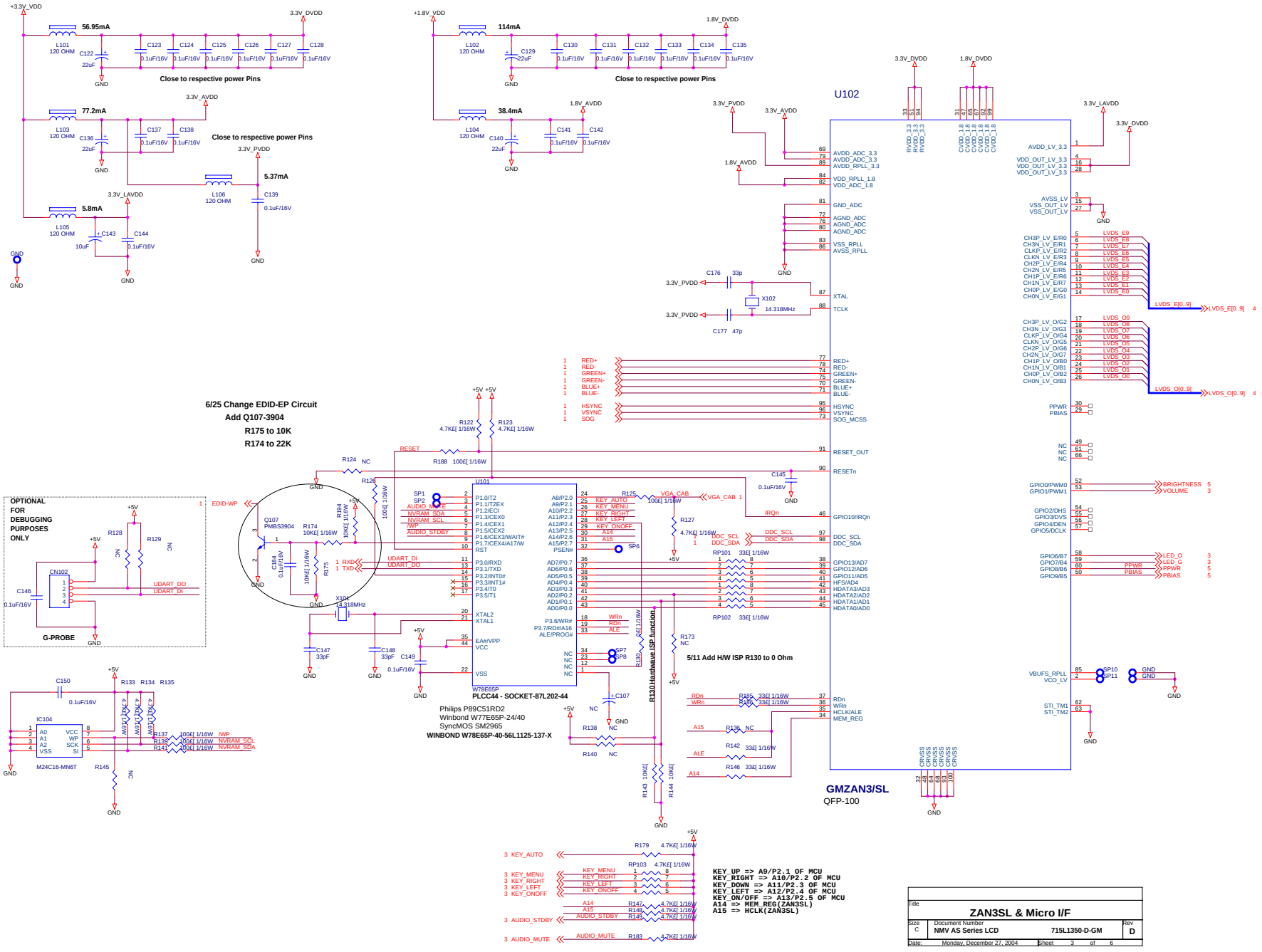
Power Block Diagram

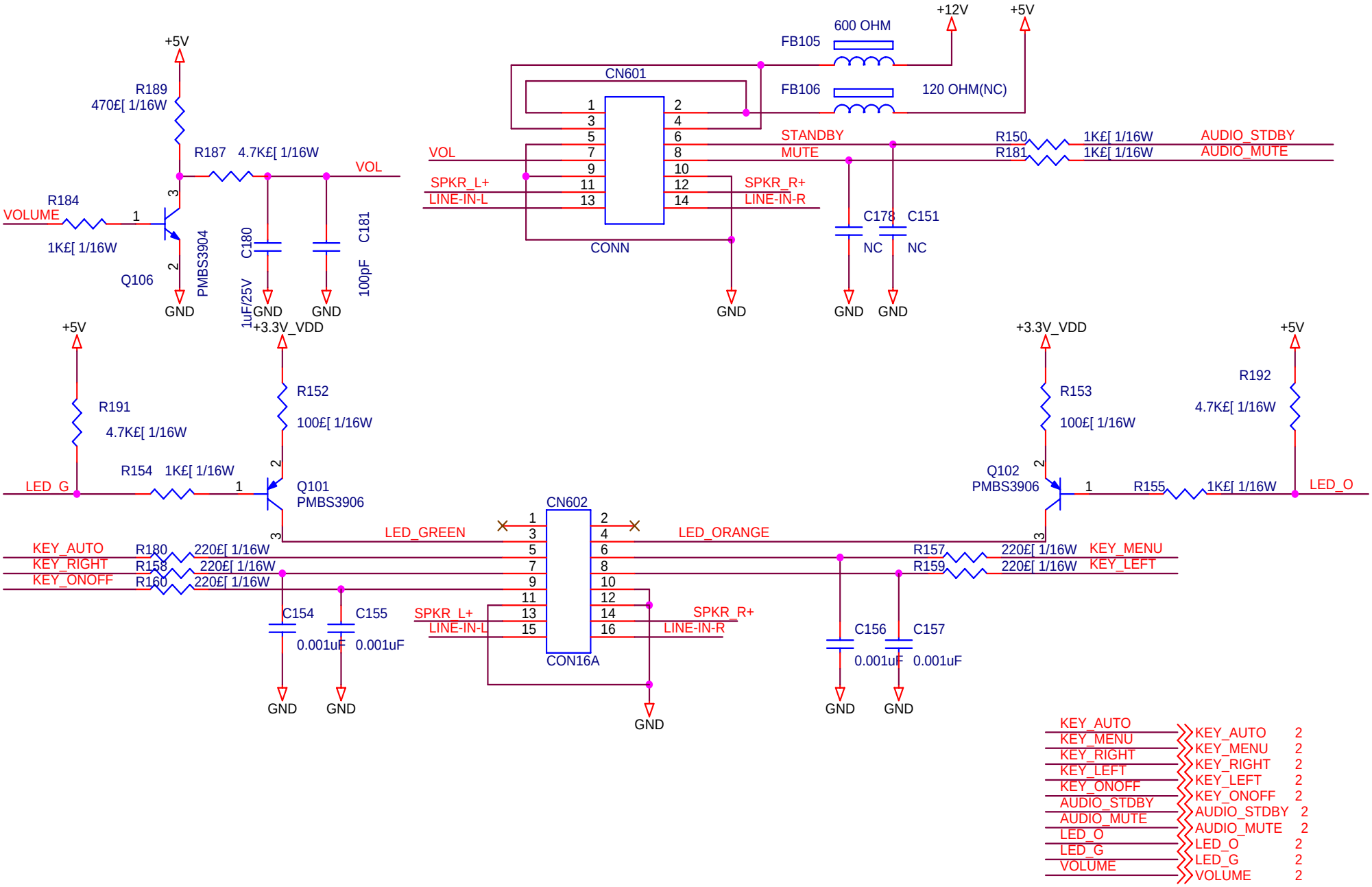


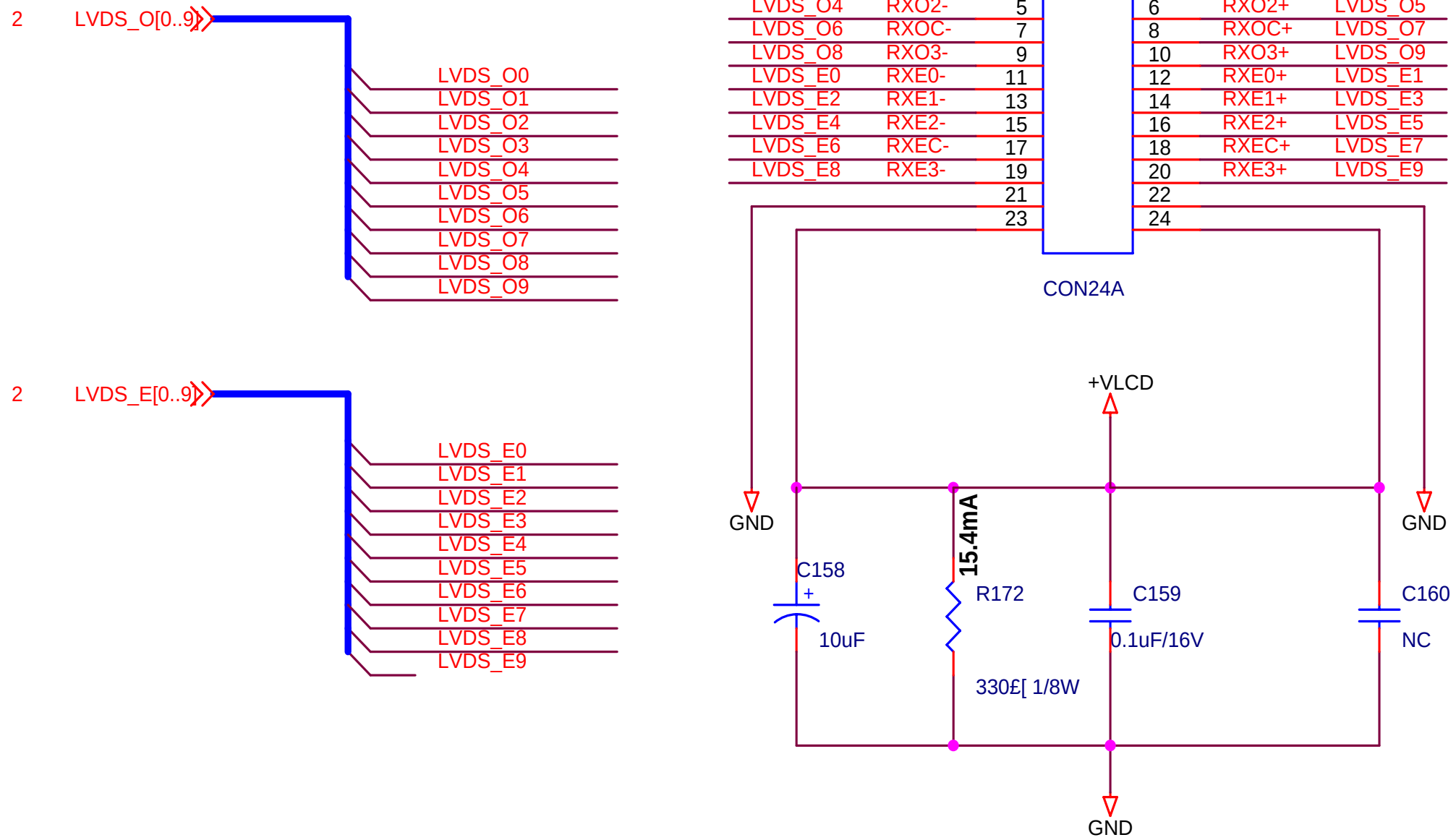
6. Schematic

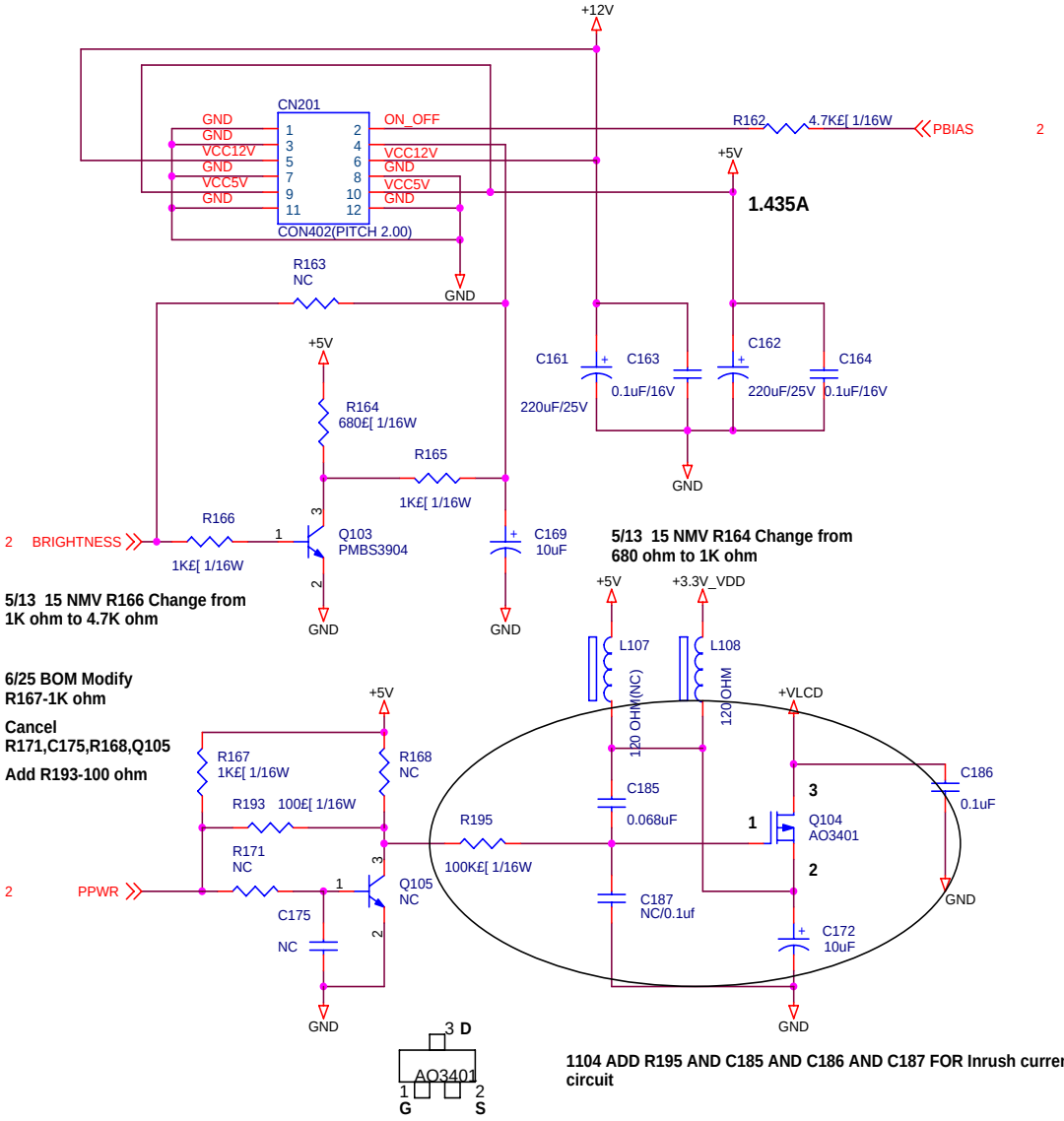
6.1 Main Board

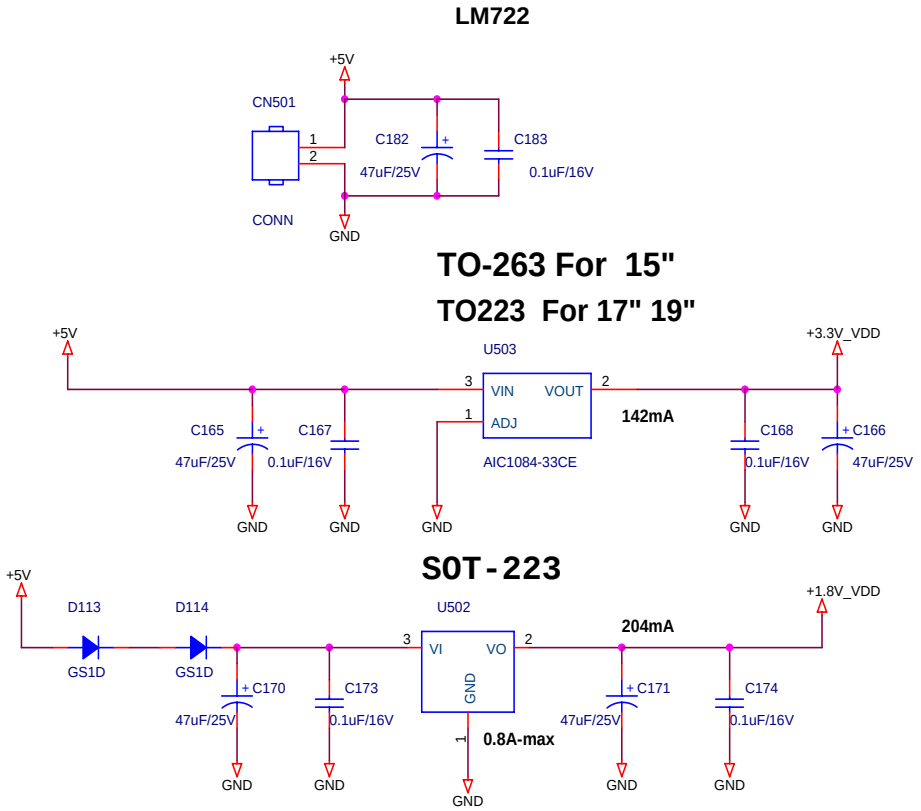



6/25 Change EDID-EP Circuit
Add Q107-3904
R175 to 10K
R174 to 22K
OPTIONAL FOR DEBUGGING PURPOSES ONLY
G-PROBE
Close to respective power Pins
PLCC44 - SOCKET-87L202-44
Philips P89C51RD2
Winbond W77E65P-2/4/0
SyncMOS SM2965
WINBOND W78E65P-40-56L1125-137-X
R130 Hardwave ISP function
5/11 Add H/W ISP R130 to 0 Ohm
GMZAN3/SL
QFP-100
KEY_UP => A9/P2.1 OF MCU
KEY_RIGHT => A10/P2.2 OF MCU
KEY_DOWN => A11/P2.3 OF MCU
KEY_LEFT => A12/P2.4 OF MCU
KEY_ON/OFF => A13/P2.5 OF MCU
A14 => MEM_REG(ZAN3SL)
A15 => HCLK(ZAN3SL)
ZAN3SL & Micro I/F
NMV AS Series LCD
715L1350-D-GM

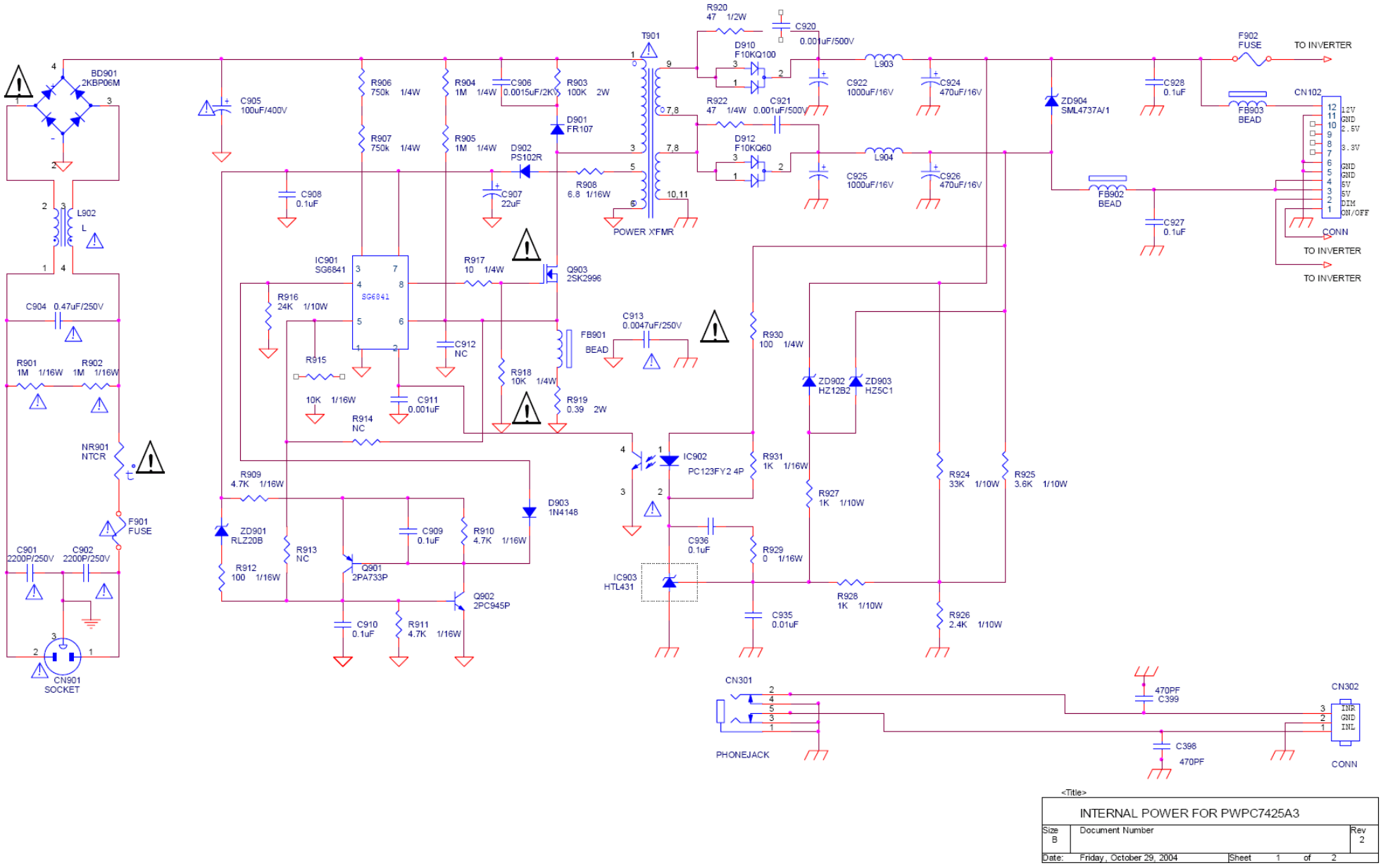

+5V
R189
470£[1/16W
R187 4.7K£[1/16W
VOL
R184
VOLUME
1K£[1/16W
Q106
PMBS3904
C180
1uF/25V
C181
100pF
GND
GND
GND
+12V
+5V
FB105
600 OHM
FB106
120 OHM(NC)
CN601
STANDBY
MUTE
SPKR_L+
LINE-IN-L
SPKR_R+
LINE-IN-R
CONN
R150
R181
1K£[1/16W
1K£[1/16W
AUDIO_STDBY
AUDIO_MUTE
C178
C151
NC
NC
+5V
+3.3V_VDD
R191
4.7K£[1/16W
R152
100£[1/16W
R154 1K£[1/16W
LED_G
Q101
PMBS3906
LED_GREEN
CN602
LED_ORANGE
+3.3V_VDD
+5V
R153
100£[1/16W
R192
4.7K£[1/16W
Q102
PMBS3906
R155
1K£[1/16W
LED_O
KEY_AUTO
KEY_RIGHT
KEY_ONOFF
R180
R158
R160
220£[1/16W
220£[1/16W
220£[1/16W
R157
R159
220£[1/16W
220£[1/16W
KEY_MENU
KEY_LEFT
C154
C155
0.001uF
0.001uF
SPKR_L+
LINE-IN-L
SPKR_R+
LINE-IN-R
CON16A
C156
C157
0.001uF
0.001uF
GND
GND
GND
GND
GND
GND
KEY_AUTO
KEY_MENU
KEY_RIGHT
KEY_LEFT
KEY_ONOFF
AUDIO_STDBY
AUDIO_MUTE
LED_O
LED_G
VOLUME
KEY_AUTO 2
KEY_MENU 2
KEY_RIGHT 2
KEY_LEFT 2
KEY_ONOFF 2
AUDIO_STDBY 2
AUDIO_MUTE 2
LED_O 2
LED_G 2
VOLUME 2

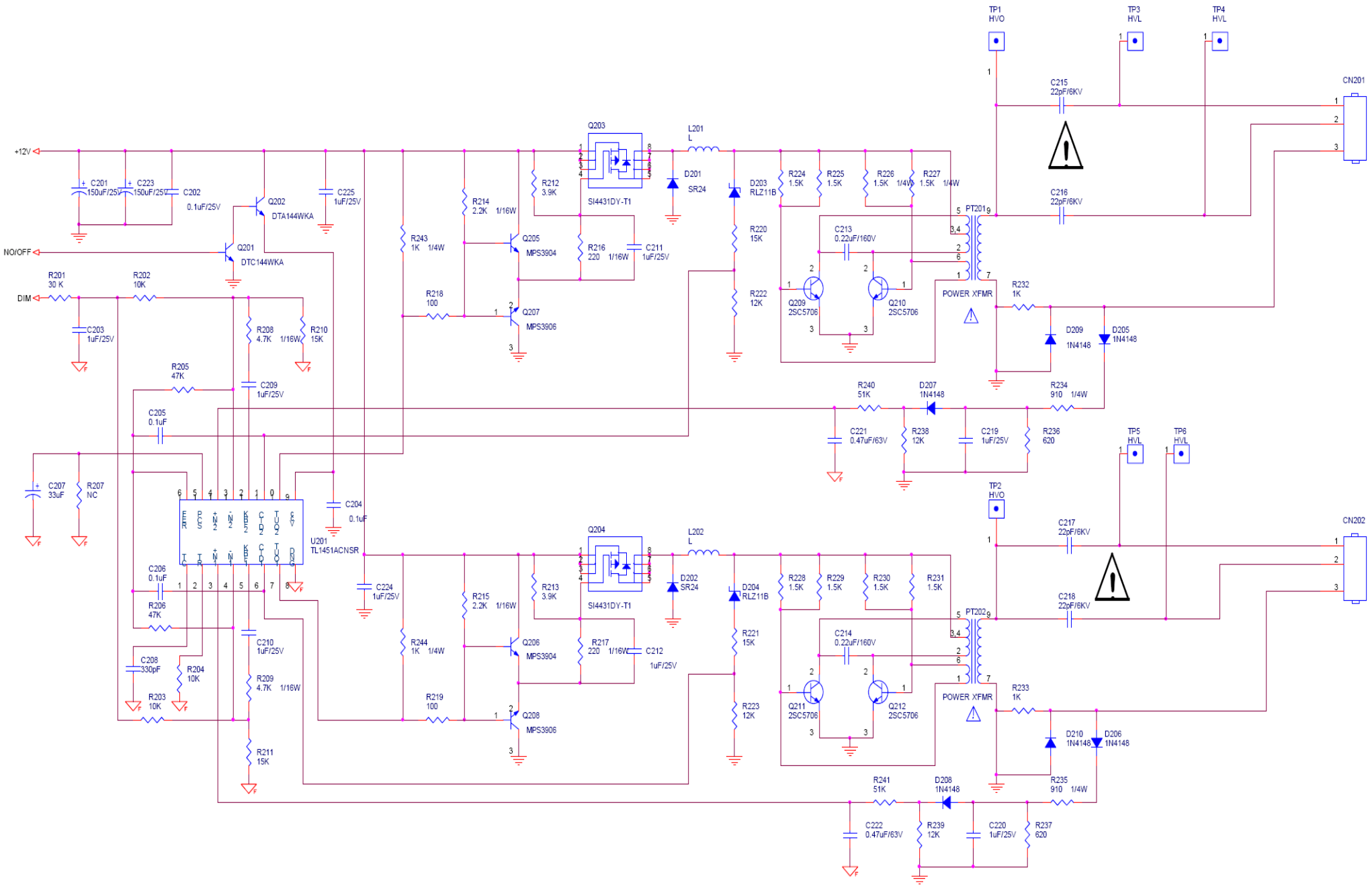

2
LVDS_O[0..9]
LVDS_O0
LVDS_O1
LVDS_O2
LVDS_O3
LVDS_O4
LVDS_O5
LVDS_O6
LVDS_O7
LVDS_O8
LVDS_O9
2
LVDS_E[0..9]
LVDS_E0
LVDS_E1
LVDS_E2
LVDS_E3
LVDS_E4
LVDS_E5
LVDS_E6
LVDS_E7
LVDS_E8
LVDS_E9
CN503
LVDS_O0 RXO0- 1
LVDS_O2 RXO1- 3
LVDS_O4 RXO2- 5
LVDS_O6 RXOC- 7
LVDS_O8 RXO3- 9
LVDS_E0 RXE0- 11
LVDS_E2 RXE1- 13
LVDS_E4 RXE2- 15
LVDS_E6 RXEC- 17
LVDS_E8 RXE3- 19
21
23
2 RXO0+ LVDS_O1
4 RXO1+ LVDS_O3
6 RXO2+ LVDS_O5
8 RXOC+ LVDS_O7
10 RXO3+ LVDS_O9
12 RXE0+ LVDS_E1
14 RXE1+ LVDS_E3
16 RXE2+ LVDS_E5
18 RXEC+ LVDS_E7
20 RXE3+ LVDS_E9
22
24
CON24A
+VLCD
GND
GND
15.4mA
C158
+
10uF
R172
330£[1/8W
C159
0.1uF/16V
C160
NC
GND


+12V
CN201
GND
GND
VCC12V
GND
VCC5V
GND
ON_OFF
VCC12V
GND
VCC5V
GND
CON402(PITCH 2.00)
R162
4.7K£[1/16W
PBIAS
2
+5V
1.435A
R163
NC
GND
+5V
R164
680£[1/16W
R165
1K£[1/16W
C161
220uF/25V
C163
0.1uF/16V
C162
220uF/25V
C164
0.1uF/16V
GND
R166
1K£[1/16W
2
BRIGHTNESS
Q103
PMBS3904
C169
10uF
GND
GND
5/13 15 NMV R166 Change from
1K ohm to 4.7K ohm
5/13 15 NMV R164 Change from
680 ohm to 1K ohm
6/25 BOM Modify
R167-1K ohm
Cancel
R171,C175,R168,Q105
Add R193-100 ohm
+5V
+3.3V_VDD
L107
L108
120 OHM(NC)
120 OHM
+VLCD
R167
1K£[1/16W
R168
NC
R193
100£[1/16W
R171
NC
2
PPWR
Q105
NC
C175
NC
GND
R195
100K£[1/16W
C185
0.068uF
C187
NC/0.1uf
Q104
AO3401
C186
0.1uF
C172
10uF
GND
GND
3 D
AO3401
1
2
G
S
1104 ADD R195 AND C185 AND C186 AND C187 FOR Inrush current
circuit

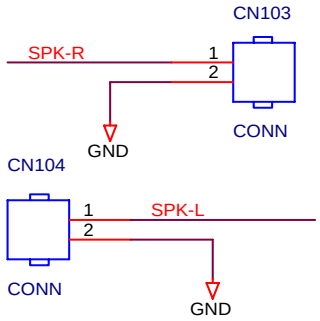

LM722
+5V
CN501
1
2
CONN
GND
C182
47uF/25V
C183
0.1uF/16V
TO-263 For 15"
TO223 For 17" 19"
+5V
U503
VIN
VOUT
ADJ
AIC1084-33CE
142mA
+3.3V_VDD
C165
47uF/25V
C167
0.1uF/16V
C168
0.1uF/16V
C166
47uF/25V
GND
S0T-223
+5V
D113
D114
GS1D
GS1D
U502
VI
VO
GND
204mA
+1.8V_VDD
C170
47uF/25V
C173
0.1uF/16V
C171
47uF/25V
C174
0.1uF/16V
0.8A-max
GND

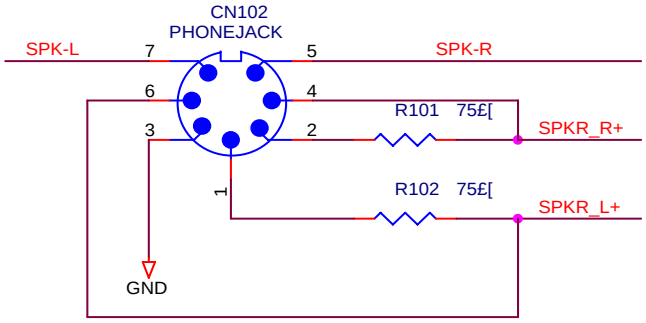
6.2 Power Board

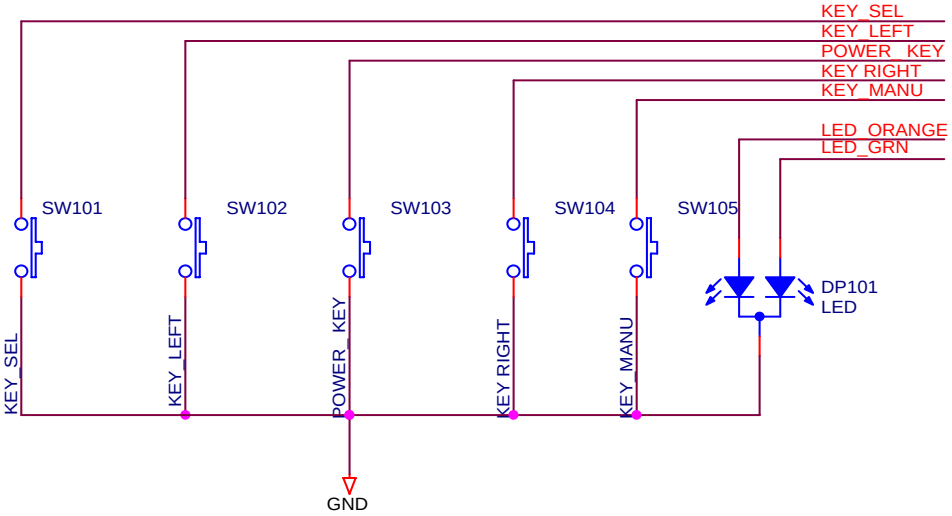


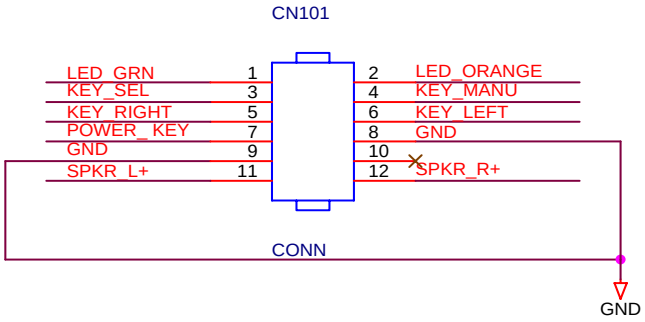

+12V
NO/OFF
DIM
C201 150uF/25V
C223 150uF/25V
C202 0.1uF/25V
Q201 DTC144WKA
Q202 DTA144WKA
C225 1uF/25V
R201 30 K
R202 10K
C203 1uF/25V
R205 47K
C205 0.1uF
C207 33uF
R207 NC
R208 4.7K 1/16W
R210 15K
C209 1uF/25V
C204 0.1uF
U201 TL1451ACNSR
C206 0.1uF
R206 47K
C208 330pF
R204 10K
R203 10K
C210 1uF/25V
R209 4.7K 1/16W
R211 15K
C224 1uF/25V
R243 1K 1/4W
R218 100
R214 2.2K 1/16W
Q205 MPS3904
Q207 MPS3906
R212 3.9K
Q203 SI4431DY-T1
R216 220 1/16W
C211 1uF/25V
L201 L
D201 SR24
D203 RLZ11B
R220 15K
R222 12K
R224 1.5K
R225 1.5K
R226 1.5K 1/4W
R227 1.5K 1/4W
C213 0.22uF/160V
Q209 2SC5706
Q210 2SC5706
PT201 POWER XFMR
R232 1K
D209 1N4148
D205 1N4148
R240 51K
D207 1N4148
R234 910 1/4W
C221 0.47uF/63V
R238 12K
C219 1uF/25V
R236 620
TP1 HVO
TP3 HVL
TP4 HVL
C215 22pF/6KV
C216 22pF/6KV
CN201
TP5 HVL
TP6 HVL
TP2 HVO
C217 22pF/6KV
C218 22pF/6KV
CN202
R244 1K 1/4W
R219 100
R215 2.2K 1/16W
Q206 MPS3904
Q208 MPS3906
R213 3.9K
Q204 SI4431DY-T1
R217 220 1/16W
C212 1uF/25V
L202 L
D202 SR24
D204 RLZ11B
R221 15K
R223 12K
R228 1.5K
R229 1.5K
R230 1.5K
R231 1.5K
C214 0.22uF/160V
Q211 2SC5706
Q212 2SC5706
PT202 POWER XFMR
R233 1K
D210 1N4148
D206 1N4148
R241 51K
D208 1N4148
R235 910 1/4W
C222 0.47uF/63V
R239 12K
C220 1uF/25V
R237 620

6.3 Key Board



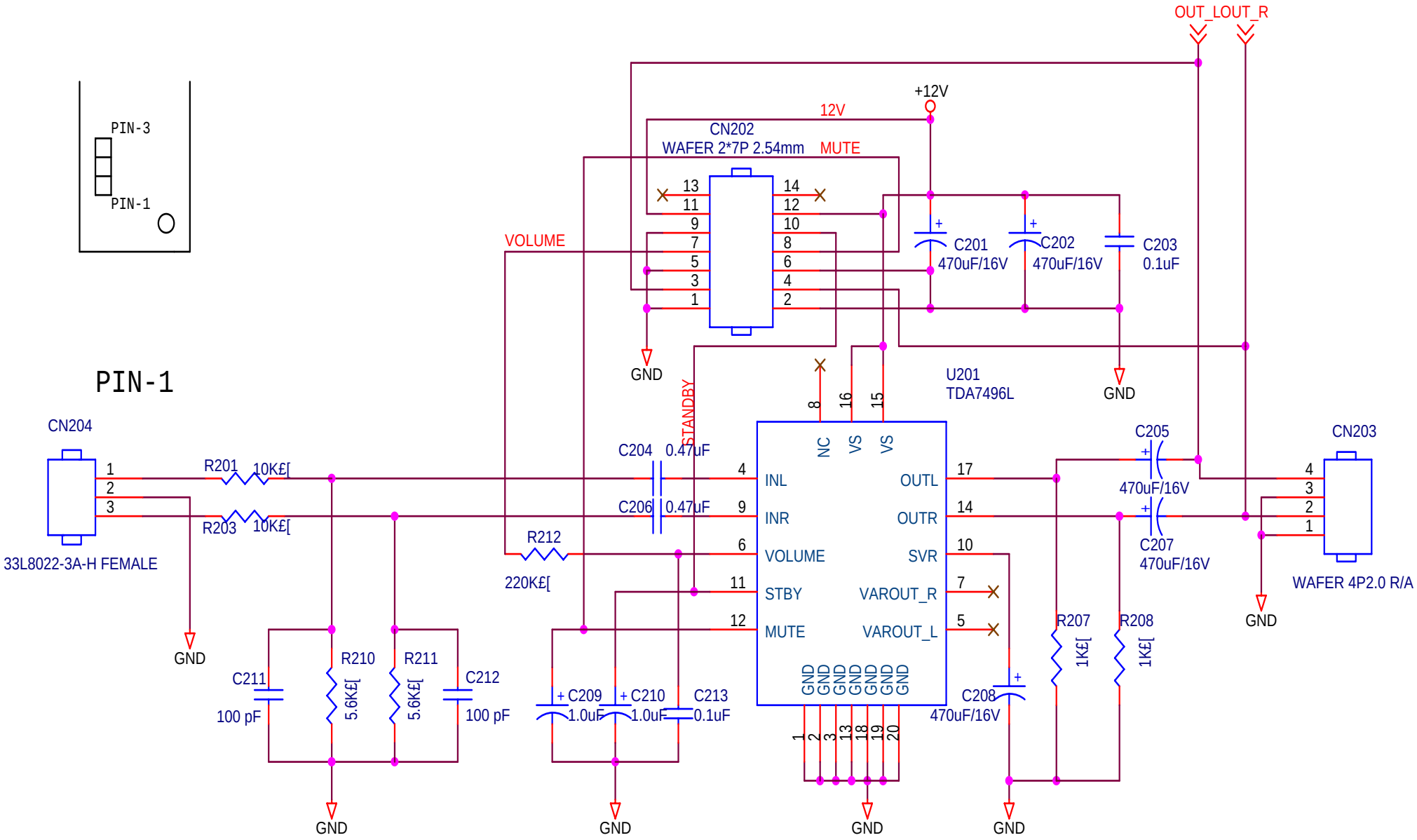






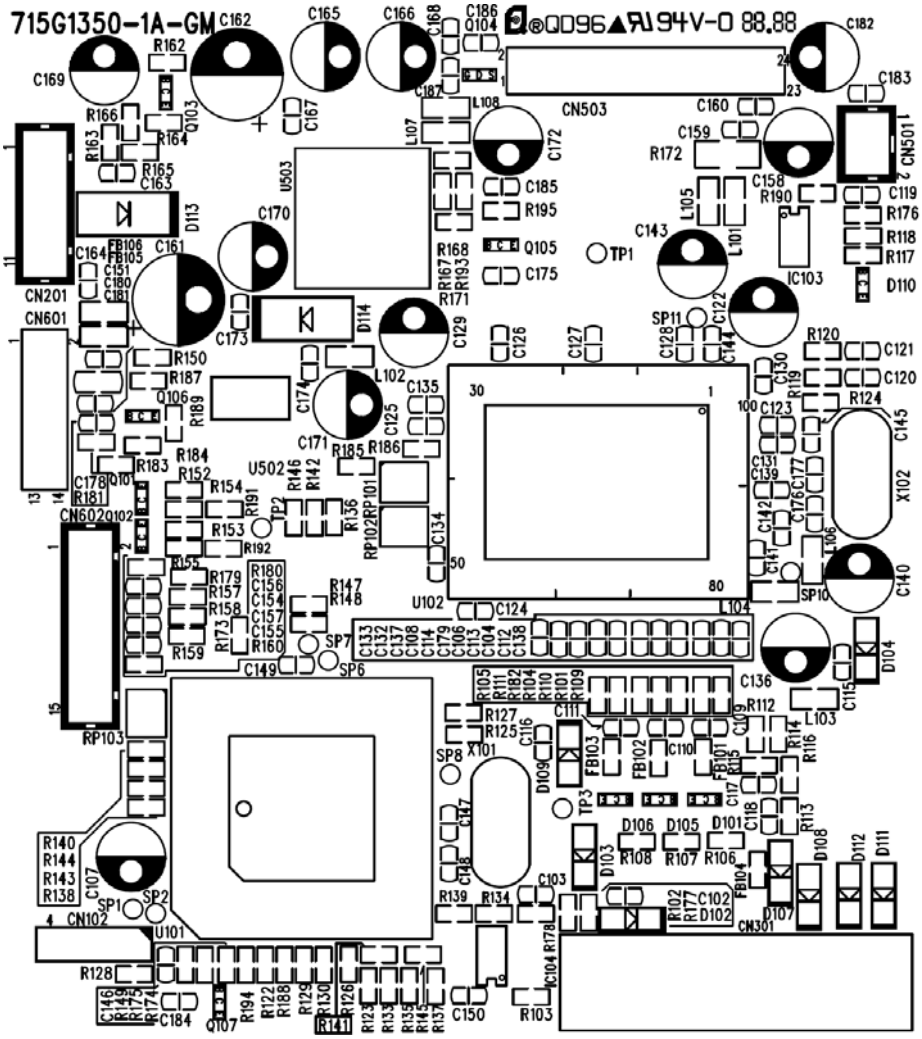
AOC (Top Victory) Electronics Co., Ltd.		
Title: KEYPAD FOR 15" NMV		
Size: A	Document Number: 715L1222-B KEYPAD CIRCUIT	Rev: A
Date: Thursday, October 07, 2004	Sheet 1 of 1	

6.4 Audio Board

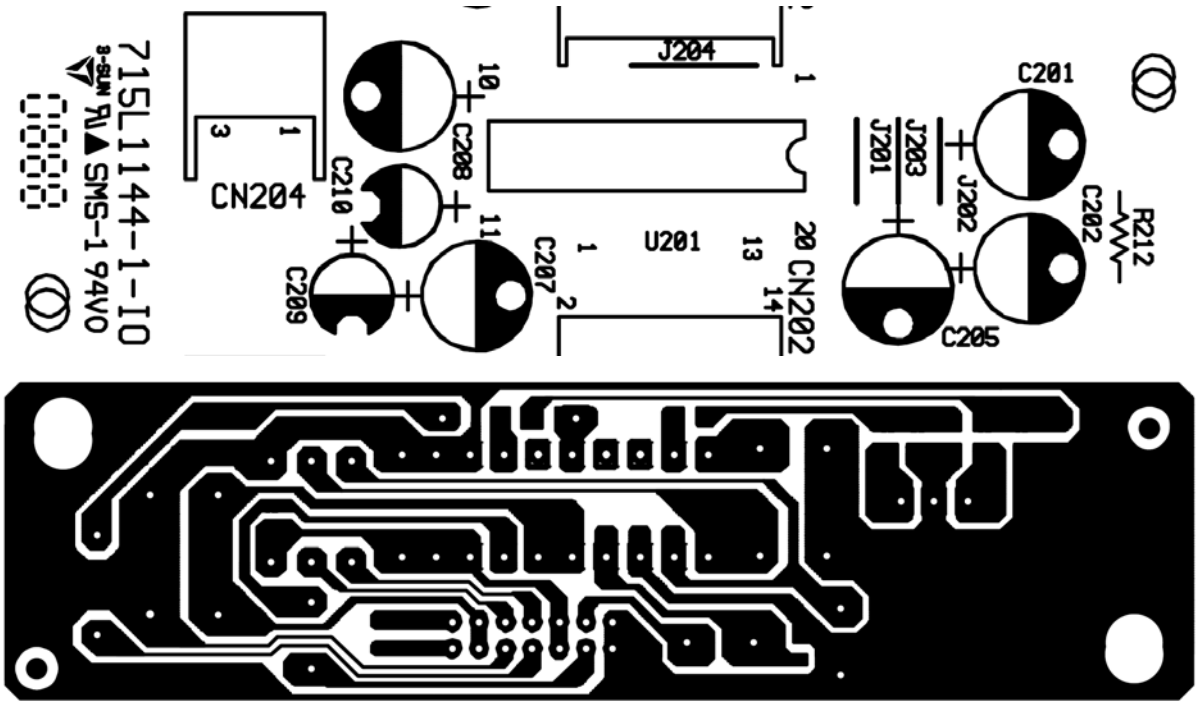


7. Layout

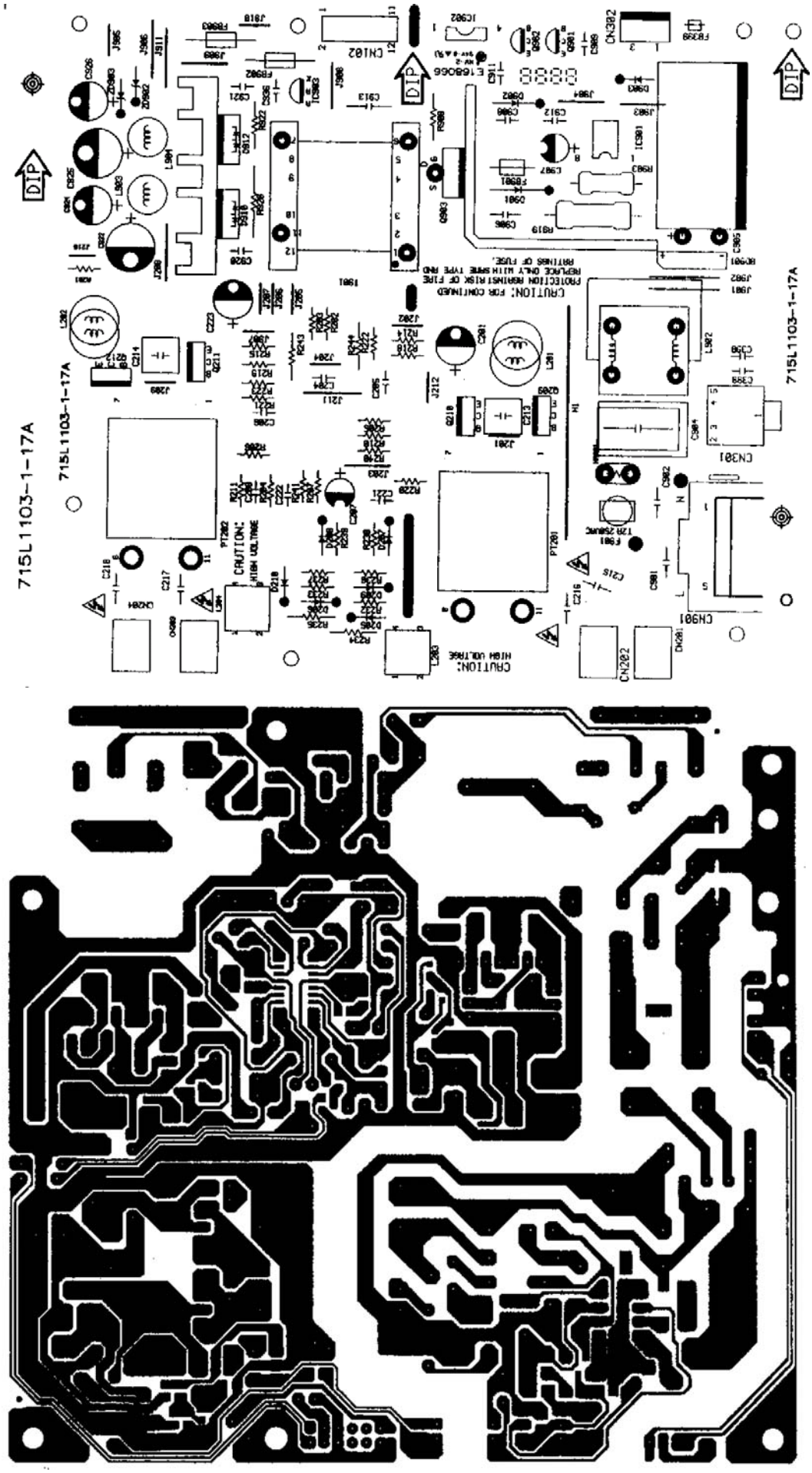
7.1 Main Board



7.2 Audio Board



7.3 Power Board



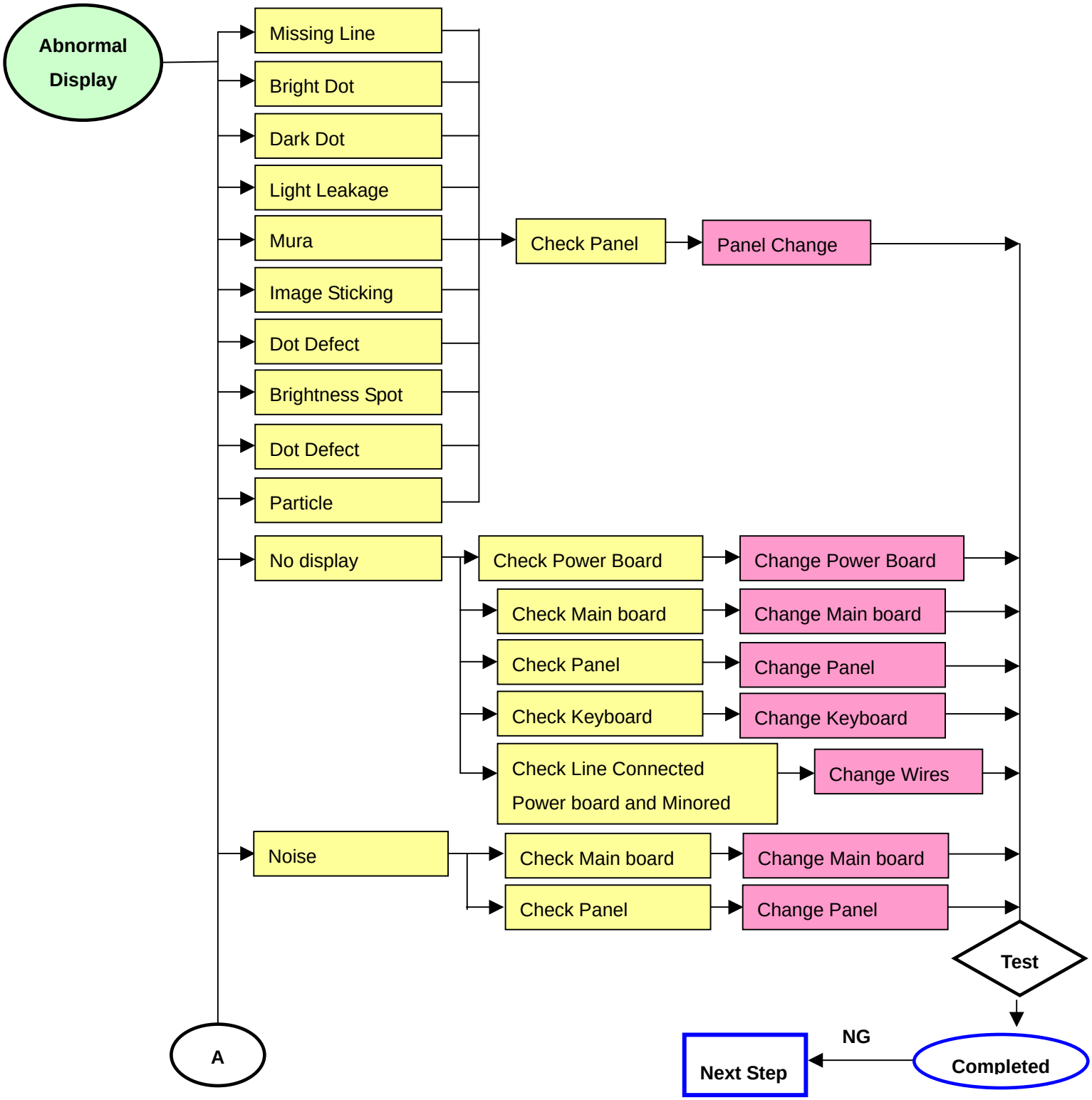
8. Maintainability

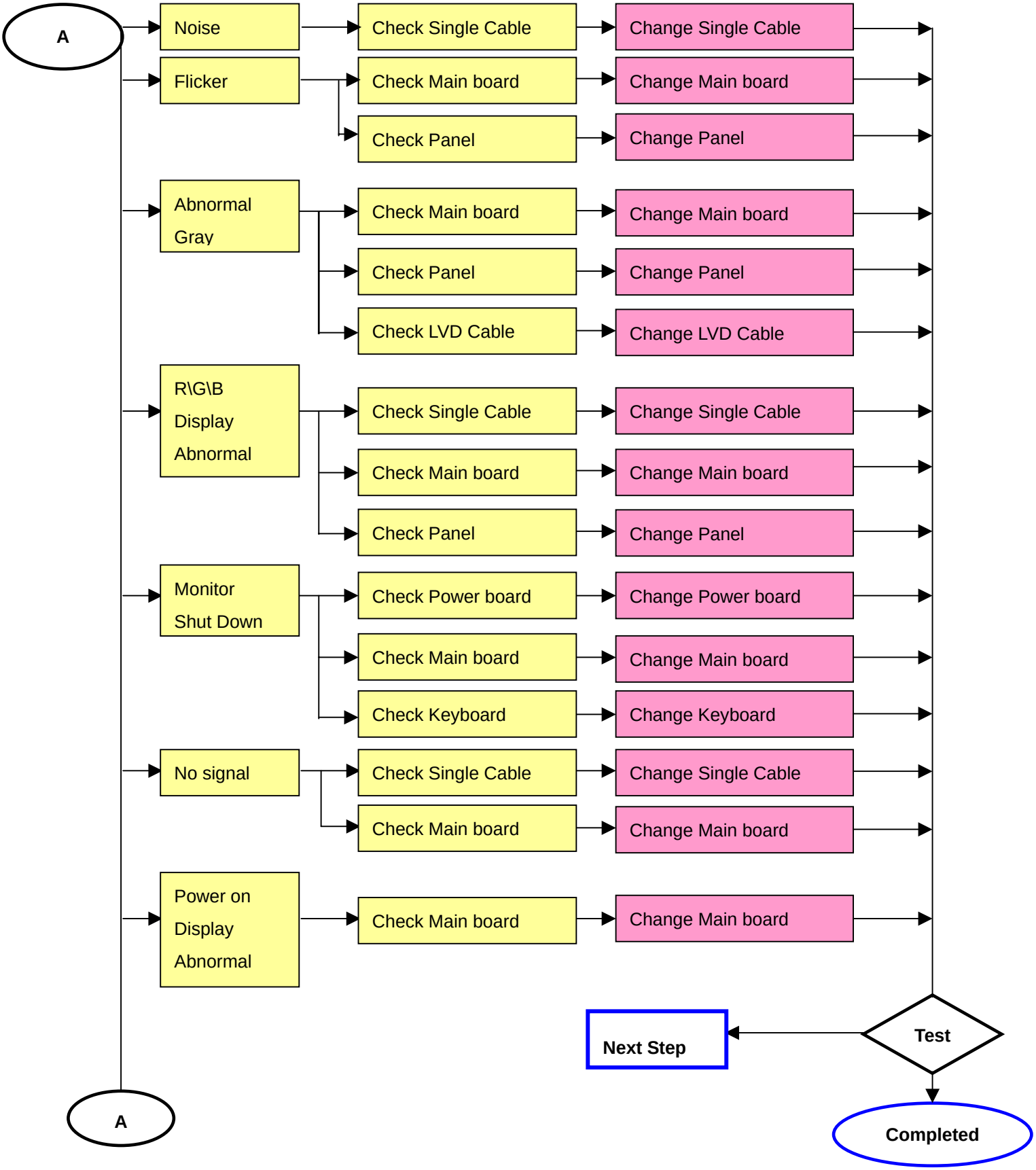
8.1 Equipments and Tools Requirement

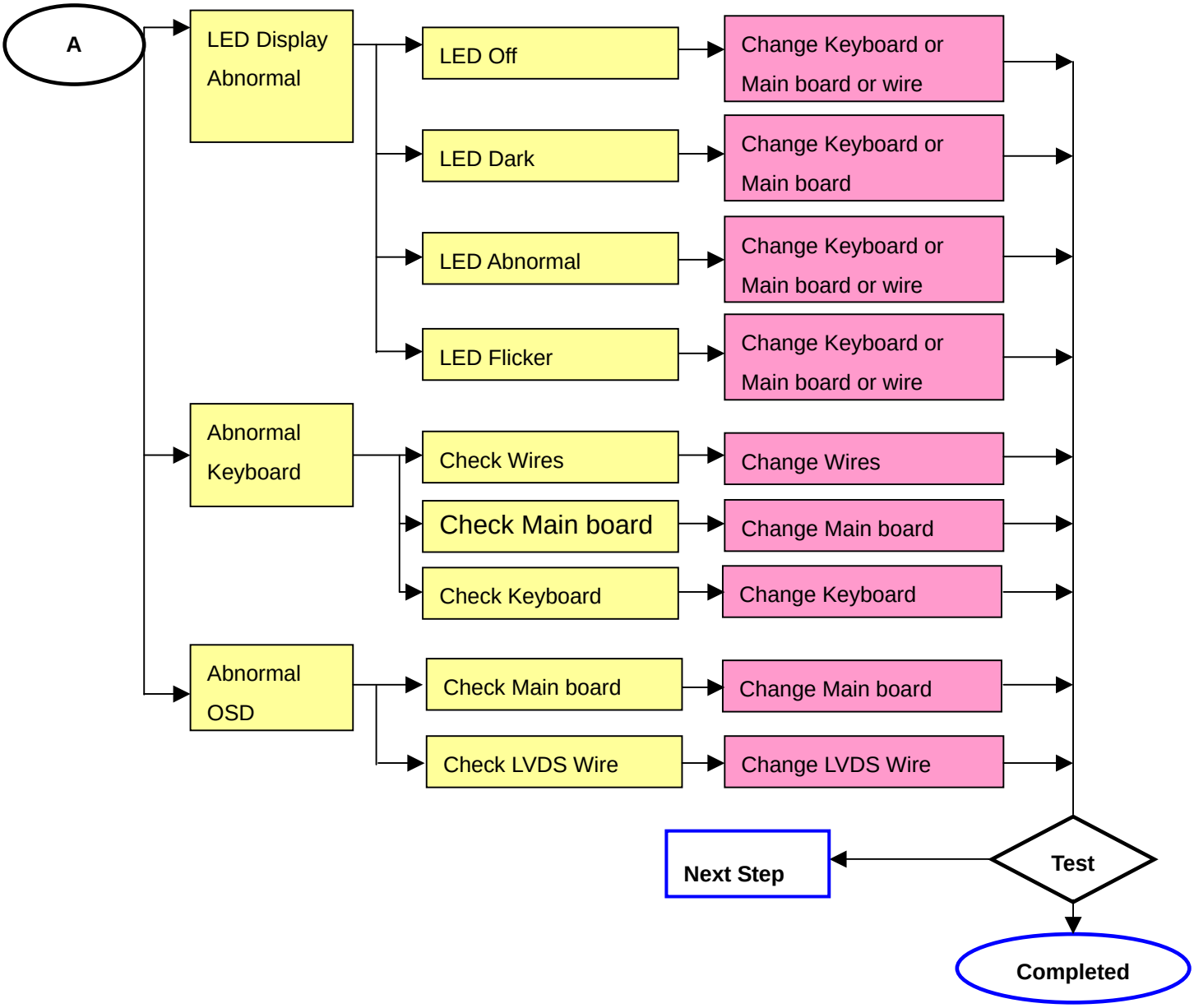
1) Voltmeter.
2) Oscilloscope.
3) Pattern Generator.
4) DDC Tool with an IBM Compatible Computer.
5) Alignment Tool.
6) LCD Color Analyzer.
7) Service Manual.
8) User Manual.

8.2 Trouble Shooting

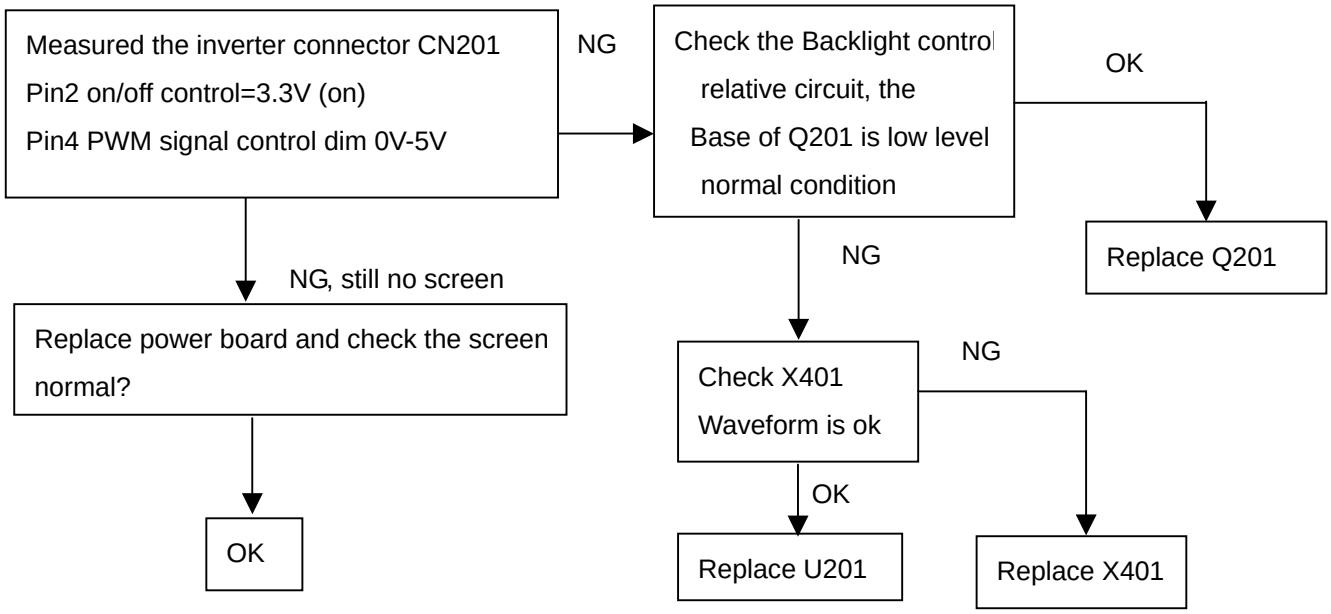
Defect Mode	Failure Analysis	Repair	Testing



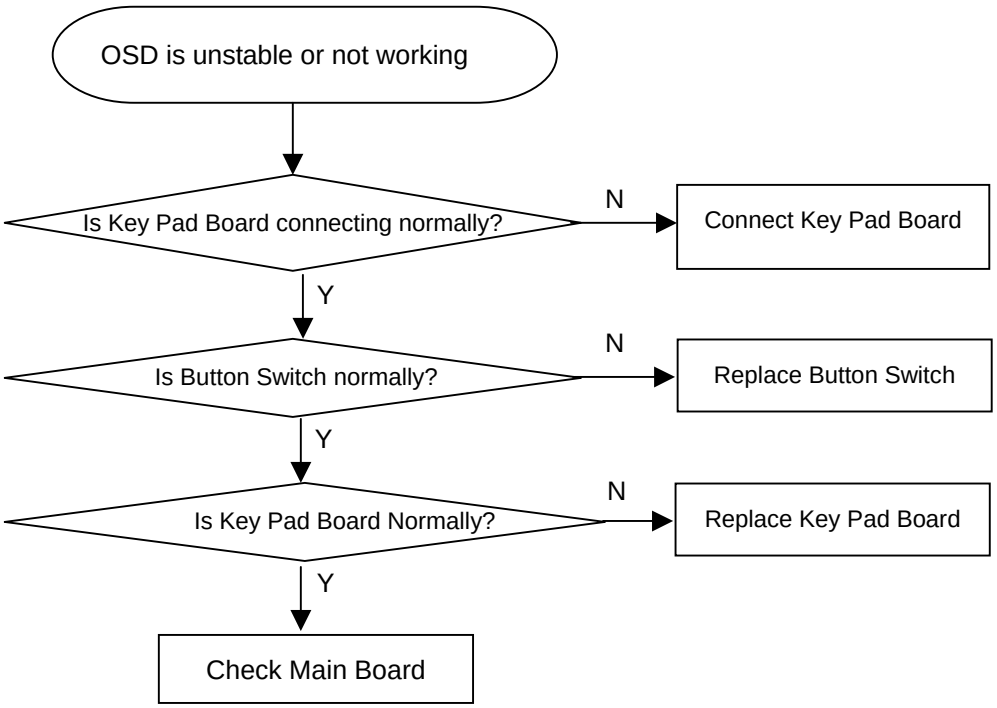

A
Noise
Flicker
Abnormal Gray
R\G\B Display Abnormal
Monitor Shut Down
No signal
Power on Display Abnormal
Check Single Cable
Check Main board
Check Panel
Check Main board
Check Panel
Check LVD Cable
Check Single Cable
Check Main board
Check Panel
Check Power board
Check Main board
Check Keyboard
Check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

INVERTER CONTROL RELATIVE CIRCUIT

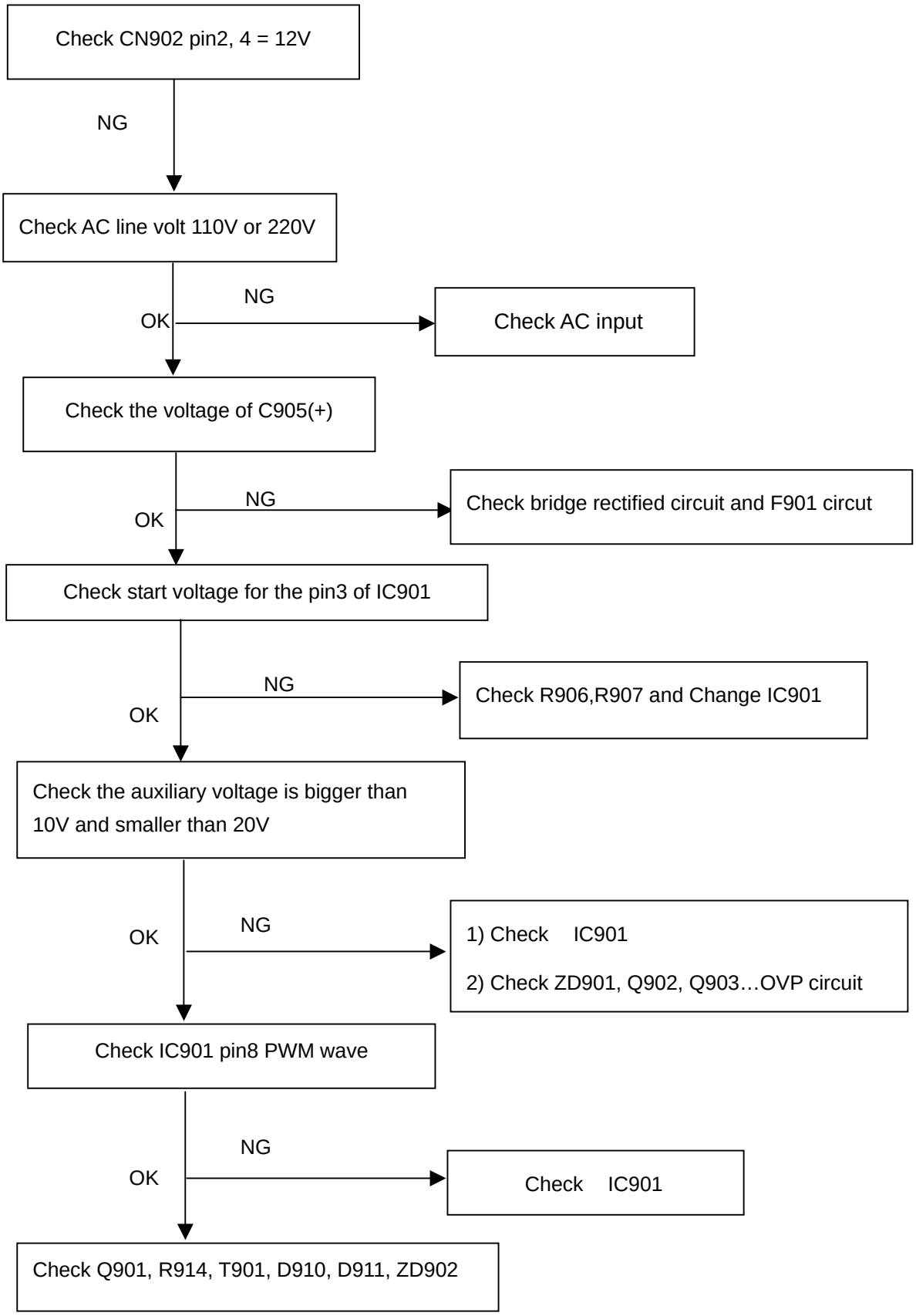


8.2.1 KEYPAD BOARD

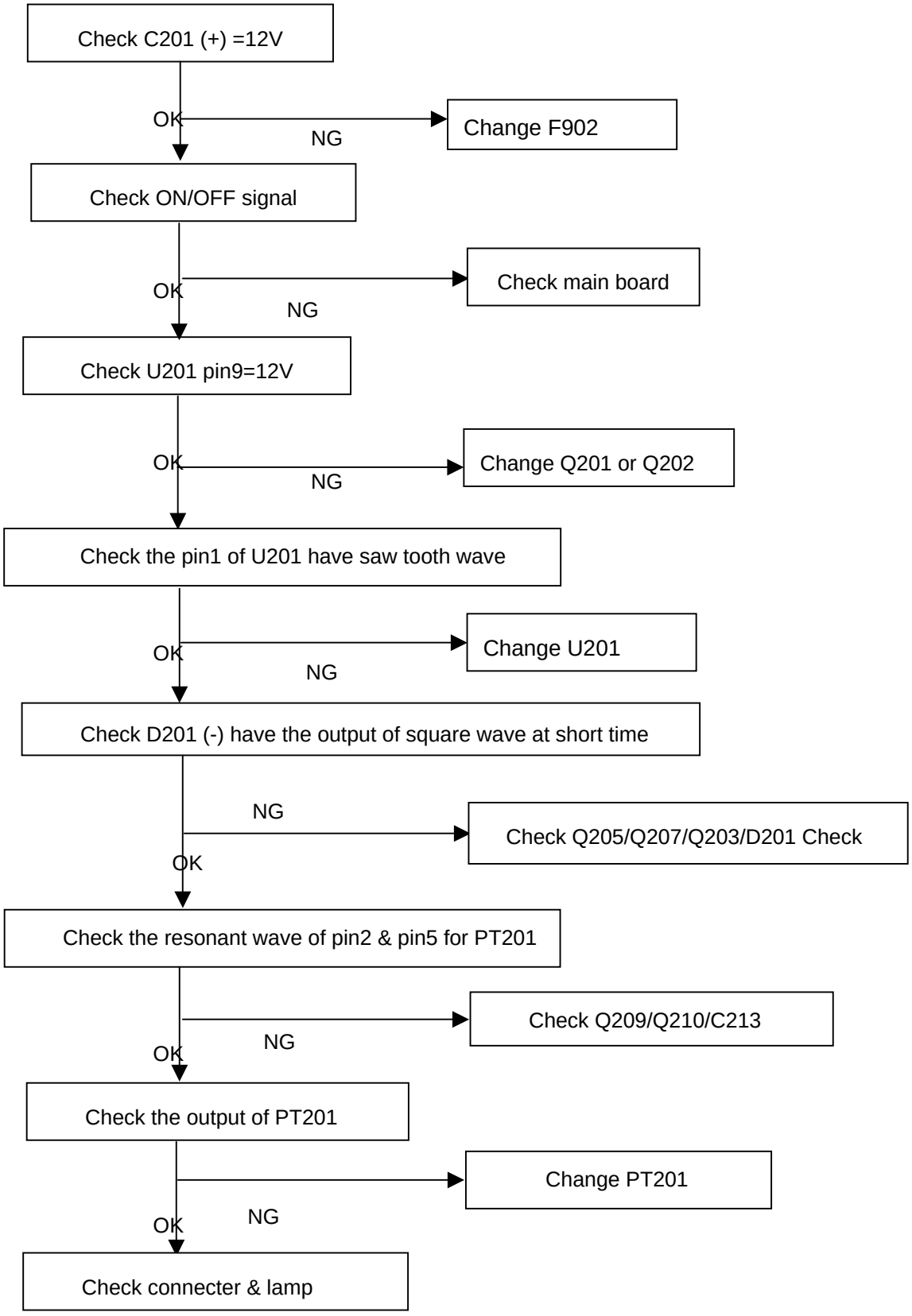


8.2.2 POWER/INVERTER BOARD

1.) No power



2.) No Backlight



9. WHITE- BALANCE, LUMINANCE ADJUSTMENT

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

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

   A. Reference to chroma 7120 user guide

   B. Use " **SC**" key and " **NEXT**" key to modify 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 ±10, y = 311 ±10, Y = 200 ±10 cd/m^2 ,

   B. MEM.CHANNEL 4 (6500 color):

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

3. Into factory mode of LM722

   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 ±10, y = 311 ±10, 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 ±10, y = 329 ±10, 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.

10. EDID

	x0	x1	x2	x3	x4	x5	x6	x7	x8	x9	xA	xB	xC	xD	xE	xF
00:	00	FF	FF	FF	FF	FF	FF	00	05	E3	80	A7	00	00	00	00
10:	05	0B	01	03	68	22	1B	78	EA	00	86	9C	57	4C	91	26
20:	23	4F	54	BF	EF	00	01	01	01	01	01	01	01	01	01	01
30:	01	01	01	01	01	01	BC	34	00	98	51	00	2A	40	10	90
40:	13	00	54	0E	11	00	00	18	00	00	00	FF	00	54	35	4C
50:	50	39	39	41	30	30	30	30	30	36	00	00	00	FD	00	37
60:	4B	1E	50	0D	00	0A	20	20	20	20	20	20	00	00	00	FC
70:	00	4C	4D	37	32	30	0A	20	20	20	20	20	20	20	00	DE

11. BOM List

T780KCLHBAAOA

	AUPC780AT	AUDIO BORD	M	1	PCS
	CBPC780KCLAC	CONVERSION BOARD	M	1	PCS
	KEPC780KE5	KEY BOARD	M	1	PCS
	PWPC7425A3E22C	POWER BOARD	M	1	PCS
	15G5786 1	VRSA BRACKET	P	1	PCS
	15G5908 2	BRACKET	P	1	PCS
	15G6090 7	MAIN FRAME	P	1	PCS
	26G 800504 7	BARCODE	P	1	PCS
	34L1272 GM 5B	REAR COVER	P	1	PCS
	34L1455 GM B	BASE	P	1	PCS
	40G 190615 1	ID LABEL	P	1	PCS
	40G 58162435A	LABEL	P	1	PCS
	44L3739624 1A	CARTON	P	1	PCS
	44L3750 1	EPS	P	1	PCS
	44L3750 2	EPS	P	1	PCS
	45L 76 28 RN	PE BAG for MANUAL/BASE	P	1	PCS
	45L 88607	PE BAG FOR MONITOR	P	1	PCS
	50L 600 2	HANDLE1	P	1	PCS
	50L 600 3	HANDLE2	P	1	PCS
	52L 1185	MIDDLE TAPE FOR CARTON	P	60	CM
	52L 1186	SMALL TAPE	P	8	CM
	52L6025 11587	MYLAR 138X144	P	1	PCS
	52L6025 11784	MYLAR	P	1	PCS
	70L L17500CIR	DRIVE DISK	P	1	PCS
	78L 322501 L	SPEAKER	P	1	PCS
	78L 322501 R	SPEAKER	P	1	PCS
	85L6080 2	SHIELD	P	1	PCS
	89L 173 56 8	AUDIO CABLE 1800mm BLAC	P	1	PCS
	89L1738LAB D1	D-SUB 1800MM	P	1	PCS
	89L402C18N IS	POWER CORD	P	1	PCS
	95G8014 16561	WIRE HARNESS	P	1	PCS
	95G8018 30559	HARNESS	P	1	PCS
	M1L 330 4128	SCREW M3X4	P	6	PCS
	M1L 330 5 47	SCREW(M3*5)	P	2	PCS
	M1L1130 6128	SCREW	P	10	PCS
	M1L1140 6128	SCREW 4X6	P	1	PCS

	Q1L 330 8120	SCREW 3X8mm	P	2	PCS
	Q1L 330 10 47	SCREW (T3X10)	P	1	PCS
	Q1L 330 12 47	SCREW	P	2	PCS
	705L780KB34071	BACK COVER ASS'Y	X	1	PCS
	750LLC70A07 1	CPT 17" EA07 110 SOC PA	P	1	PCS
	AM1L1740 10 47	SCREW	P	4	PCS
AUPC780AT					
	AUPC780ATSMT	AUDIO BOARD FOR SMT	M	1	PCS
CN202	33L802414C H	2*7PIN DUAL ROW RIGHT A	P	1	PCS
CN204	95G8014 3503	WIRE HARNESS	P	1	PCS
U201	56L 616 1	TDA7496L BY ST	P	1	PCS
	AUPC780ATAI	AUDIO BOARD FOR AI	M	1	PCS
C203	65L0805104 32	CHIP 0.1UF 50V X7R	P	1	PCS
C204	65L0805474 22	CHIP 0.47UF 25V X7R 080	P	1	PCS
C206	65L0805474 22	CHIP 0.47UF 25V X7R 080	P	1	PCS
C211	65L0805101 31	CHIP 100PF 50V NPD 0805	P	1	PCS
C212	65L0805101 31	CHIP 100PF 50V NPD 0805	P	1	PCS
C213	65L0805104 32	CHIP 0.1UF 50V X7R	P	1	PCS
R201	61L0603183	CHIP 18K OHM 1/10W	P	1	PCS
R203	61L0603183	CHIP 18K OHM 1/10W	P	1	PCS
R207	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R208	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R210	61L0603203	CHIPR 20K OHM+-5% 1/10W	P	1	PCS
R211	61L0603203	CHIPR 20K OHM+-5% 1/10W	P	1	PCS
	715L1144 1 IO	AUDIO BOARD	P	1	PCS
C201	67L 305471 3T	470UF 16V	P	1	PCS
C202	67L 305471 3T	470UF 16V	P	1	PCS
C205	67L 305471 3T	470UF 16V	P	1	PCS
C207	67L 305471 3T	470UF 16V	P	1	PCS
C208	67L 305471 3T	470UF 16V	P	1	PCS
C209	67L 305100 7T	10UF +-20% 50V	P	1	PCS
C210	67L 305100 7T	10UF +-20% 50V	P	1	PCS
R212	61L 60220152T	CFR 200 OHM +-5% 1/6W	P	1	PCS
CBPC780KCLAC					
	AIC780KCLAC	MAIN BOARD	M	1	PCS
	40G 45762412B	CBPC LABEL	P	1	PCS
C122	67L305V220 3	22UF 16V	P	1	PCS
C129	67L305V220 3	22UF 16V	P	1	PCS

C136	67L305V220 3	22UF 16V	P	1	PCS
C140	67L305V220 3	22UF 16V	P	1	PCS
C143	67L215V100 7K	EC 10UF 50V NC	P	1	PCS
C158	67L215V100 7K	EC 10UF 50V NC	P	1	PCS
C161	67L305V221 4N GP	LOWESR (SHORT)	P	1	PCS
C162	67L305V221 4N GP	LOWESR (SHORT)	P	1	PCS
C165	67L305V470 4	CAPEC 47uF/25	P	1	PCS
C166	67L305V470 4	CAPEC 47uF/25	P	1	PCS
C169	67L215V100 7K	EC 10UF 50V NC	P	1	PCS
C170	67L305V470 4	CAPEC 47uF/25	P	1	PCS
C171	67L305V470 4	CAPEC 47uF/25	P	1	PCS
C172	67L215V100 7K	EC 10UF 50V NC	P	1	PCS
C182	67L305V470 4	CAPEC 47uF/25	P	1	PCS
CN201	33L8027 12	WAFER 2*6P 2.0MM R/A	P	1	PCS
CN301	88L 35315F H	D-SUB 15PIN	P	1	PCS
CN503	33L801724A H	PIN HEADER 24P 2.0mm	P	1	PCS
CN601	33L801714A H	PIN HEADER 2*7 R/A	P	1	PCS
CN602	33L8027 16	WAFER 16PIN 2.0mm DIP	P	1	PCS
X101	93G 22 53	CRYSTAL 14.318MHzHC-49U	P	1	PCS
X102	93G 22 53	CRYSTAL 14.318MHzHC-49U	P	1	PCS
	40G 457624 1B	CPU LABEL	P	1	PCS
	715G1350 1A GM	MAIN BOARD	P	1	PCS
C102	65L0603560 31	CHIP 56PF 50V NPO	P	1	PCS
C103	65L0603560 31	CHIP 56PF 50V NPO	P	1	PCS
C104	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C106	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C108	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C112	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C113	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C114	65L0603473 32	CHIP 0.047UF 50V X7R	P	1	PCS
C115	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C116	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C117	65L0603330 31	33PF+-5% 50V NPO	P	1	PCS
C118	65L0603221 31	CAP:CER 220PF 5% 50V SM	P	1	PCS
C119	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C120	65L0603221 31	CAP:CER 220PF 5% 50V SM	P	1	PCS
C121	65L0603221 31	CAP:CER 220PF 5% 50V SM	P	1	PCS
C123	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS

C124	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C125	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C126	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C127	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C128	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C130	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C131	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C132	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C133	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C134	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C135	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C137	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C138	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C139	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C141	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C142	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C144	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C145	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C146	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C147	65L0603330 31	33PF+-5% 50V NPO	P	1	PCS
C148	65L0603330 31	33PF+-5% 50V NPO	P	1	PCS
C149	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C150	65L0603224 17	CAP:CER 0.22UF-20%-80%	P	1	PCS
C154	65L0603102 32	1000PF +-10% 50V X7R	P	1	PCS
C155	65L0603102 32	1000PF +-10% 50V X7R	P	1	PCS
C156	65L0603102 32	1000PF +-10% 50V X7R	P	1	PCS
C157	65L0603102 32	1000PF +-10% 50V X7R	P	1	PCS
C159	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C163	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C164	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C167	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C168	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C173	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C174	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C175	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C176	65L0603330 31	33PF+-5% 50V NPO	P	1	PCS
C177	65L0603330 31	33PF+-5% 50V NPO	P	1	PCS
C180	65L0805105 22	CHIP 1UF 25V X7R 0805	P	1	PCS

C181	65L0603101 32	100PF +-10% 50V X7R	P	1	PCS
C183	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C184	65L0603104 12	0.1UF +-10% 16V X7R	P	1	PCS
C185	65L0603224 22	CHIP 0.22UF 25V X7R	P	1	PCS
D101	93G 6433P	BAV99	P	1	PCS
D102	93G 39147	TZMC5V6	P	1	PCS
D103	93G 39147	TZMC5V6	P	1	PCS
D104	93G 39S 39 T	MLL5234B	P	1	PCS
D105	93G 6433P	BAV99	P	1	PCS
D106	93G 6433P	BAV99	P	1	PCS
D107	93G 39147	TZMC5V6	P	1	PCS
D108	93G 39147	TZMC5V6	P	1	PCS
D109	93G 39147	TZMC5V6	P	1	PCS
D110	93L 64 42 P	BAV70 SOT-23	P	1	PCS
D111	93G 39147	TZMC5V6	P	1	PCS
D112	93G 39147	TZMC5V6	P	1	PCS
D113	93G1020 1 S	GS1D	P	1	PCS
D114	93G1020 1 S	GS1D	P	1	PCS
FB101	61L0603000	CHIPR 0OHM +-5% 1/10W	P	1	PCS
FB102	61L0603000	CHIPR 0OHM +-5% 1/10W	P	1	PCS
FB103	61L0603000	CHIPR 0OHM +-5% 1/10W	P	1	PCS
FB104	71G 59B431	BK1608 HW 431	P	1	PCS
FB105	71L 56Z601	CHIP BEAD 600 OHM 0805	P	1	PCS
IC103	56G113334A	24LC02B/SNG SOIC-8PIN	P	1	PCS
IC104	56L113356A	24LC16BT/SN SOIC-8PIN	P	1	PCS
L101	71L 56K121 M	CHIP BEAD	P	1	PCS
L102	71L 56K121 M	CHIP BEAD	P	1	PCS
L103	71L 56K121 M	CHIP BEAD	P	1	PCS
L104	71L 56K121 M	CHIP BEAD	P	1	PCS
L105	71L 56K121 M	CHIP BEAD	P	1	PCS
L106	71L 56K121 M	CHIP BEAD	P	1	PCS
L107	71L 56K121 M	CHIP BEAD	P	1	PCS
Q101	57G 417 6	PMBS3906/PHILIPS-SMT(06	P	1	PCS
Q102	57G 417 6	PMBS3906/PHILIPS-SMT(06	P	1	PCS
Q103	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS
Q104	57L 763 1	A03401 SOT23 BY AOS(A1)	P	1	PCS
Q105	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS
Q106	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS

Q107	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS
R101	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R102	61L0603470	CHIPR 47 OHM +-5% 1/10W	P	1	PCS
R103	61L0603470	CHIPR 47 OHM +-5% 1/10W	P	1	PCS
R104	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R105	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R106	61L0603750 9F	75OHM 1% 1/10W	P	1	PCS
R107	61L0603750 9F	75OHM 1% 1/10W	P	1	PCS
R108	61L0603750 9F	75OHM 1% 1/10W	P	1	PCS
R109	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R110	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R111	61L0603100 0F	CHIP 100OHM 1/10W 1%	P	1	PCS
R112	61L0603151	CHIPR 150 OHM +-5% 1/10	P	1	PCS
R113	61L0603680	CHIPR 68OHM +-5% 1/10W	P	1	PCS
R114	61L0603151	CHIPR 150 OHM +-5% 1/10	P	1	PCS
R115	61L0603222	CHIPR 2.2K OHM+-5% 1/10	P	1	PCS
R116	61L0603222	CHIPR 2.2K OHM+-5% 1/10	P	1	PCS
R117	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R118	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R119	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R120	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R122	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R123	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R125	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R126	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R127	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R133	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R134	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R135	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R137	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R139	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R141	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R142	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R143	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R144	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R146	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R147	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R148	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS

R149	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R150	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R152	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R153	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R154	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R155	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R157	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R158	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R159	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R160	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R162	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R164	61L0603681	CHIP 680 OHM 1/10W	P	1	PCS
R165	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R166	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R168	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R171	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R172	61L1206331	CHIP 330OHM 5% 1/4W	P	1	PCS
R173	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R174	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R175	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R177	61L0603272	CHIP 2.7K OHM 1/10W	P	1	PCS
R178	61L0603272	CHIP 2.7K OHM 1/10W	P	1	PCS
R179	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R180	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R181	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R183	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R184	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
R185	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R186	61L0603330	CHIPR 33 OHM +-5% 1/10W	P	1	PCS
R187	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R188	61L0603101	CHIPR 100 OHM +-5% 1/10	P	1	PCS
R189	61L0603471	CHIPR 470 OHM+-5% 1/10W	P	1	PCS
R190	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R191	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R192	61L0603472	CHIPR 4.7K OHM +-5% 1/1	P	1	PCS
R194	61L0603103	CHIPR 10K OHM +-5% 1/10	P	1	PCS
R195	61L0603104	CHIPR 100K OHM +-5% 1/1	P	1	PCS
RP101	61L 125330 8	CHIP AR 894R 33OHM +-5%	P	1	PCS

RP102	61L 125330 8	CHIP AR 894R 33OHM +-5%	P	1	PCS
RP103	61L 125472 8	CHIP AR 8P4R 4.7K OHM+-	P	1	PCS
U101	56L1125522CT2	SM5964C40J	P	1	PCS
U102	56L 562 72	GMZAN3/SL (BD) PQFB-100	P	1	PCS
U502	56G 563 27	AIC1117A-18CY SOT-223	P	1	PCS
U503	56L 585 4	AIC1117-33CY	P	1	PCS
KEPC780KE5					
	AIK780KMN	KEY BOARD	M	1	PCS
CN101	33L801712A H	PIN HEADER 2*6 R/A	P	1	PCS
CN102	88L 30211K	PHONE JACK	P	1	PCS
CN103	33L3802 2H	WAFER 2P RIGHT ANGLE	P	1	PCS
CN104	33L3802 2H	WAFER 2P RIGHT ANGLE	P	1	PCS
DP101	81L 12 1 GP	GP32032ME/50-ZY	P	1	PCS
SW101	77L 600 1GHJ	KEY SWITCH	P	1	PCS
SW102	77L 600 1GHJ	KEY SWITCH	P	1	PCS
SW103	77L 600 1GHJ	KEY SWITCH	P	1	PCS
SW104	77L 600 1GHJ	KEY SWITCH	P	1	PCS
SW105	77L 600 1GHJ	KEY SWITCH	P	1	PCS
	715L1222 B	PCB	P	1	PCS
R101	61L 60251152T	510 OHM 5% 1/6W	P	1	PCS
R102	61L 60251152T	510 OHM 5% 1/6W	P	1	PCS
PWPC7425A3E22C					
	PW7425A3E22SMT	POWER BOARD	M	1	PCS
	40G 45762412B	CBPC LABEL	P	1.03	PCS
	705L 780 57 02	CN901 ASS'Y	X	1	PCS
	705L 780 57 18	D910/D912 ASS'Y	X	1	PCS
	705L 780 5702A	Q903 ASS'Y	X	1	PCS
BD901	93G 50460502	KBP206G	P	1	PCS
C215	65L 3J2206ET	22PF 5% 3KV TDK	P	1	PCS
C216	65L 3J2206ET	22PF 5% 3KV TDK	P	1	PCS
C217	65L 3J2206ET	22PF 5% 3KV TDK	P	1	PCS
C218	65L 3J2206ET	22PF 5% 3KV TDK	P	1	PCS
C901	65L305M2222E3	2200PF+-20%400VAC BY TD	P	1	PCS
C902	65L305M2222E3	2200PF+-20%400VAC BY TD	P	1	PCS
C904	63L 107474 HS	0.47UF +-10% 250VAC	P	1	PCS
C905	67L305S10115K	100UF +-20% 450V	P	1	PCS
C906	65L 2K152 5E6921	1500 PF 10% 2KV Y5P	P	1	PCS
C922	67L215C102 3H	EC LESR 1000UF16V HERME	P	1	PCS

C925	67L 215102 3H	1000UF +-20% 16V	P	1	PCS
CN102	95G8021 12520	WIRE HARNESS	P	1	PCS
CN201	33G8021 2D U	3.5mm WAFER	P	1	PCS
CN202	33G8021 2D U	3.5mm WAFER	P	1	PCS
CN203	33G8021 2D U	3.5mm WAFER	P	1	PCS
CN204	33G8021 2D U	3.5mm WAFER	P	1	PCS
CN301	88L 30210K E	PHONE JACK	P	1	PCS
CN302	33L3278 3	3P PLUG B3B-XHA/JST	P	1	PCS
FB901	71L 55 29	FERRITE BEAD	P	1	PCS
H1	85L6113 1	SHIELD	P	1	PCS
IC901	56G 379 32	SG6841DZ DIP-8	P	1	PCS
IC902	56L 139 3A	PC123Y22	P	1	PCS
L201	73G 253510 L	CHOKE COIL	P	1	PCS
L202	73G 253510 L	CHOKE COIL	P	1	PCS
L203	73L 174 30YSA	FILTER	P	1	PCS
L204	73L 174 30YSA	FILTER	P	1	PCS
L902	73L 174 26 T1	LINE LILTER 0.45mm	P	1	PCS
L903	73L 253 91 L	CHOKE BY LI TA	P	1	PCS
L904	73L 253 91 L	CHOKE BY LI TA	P	1	PCS
NR901	61L 58080 WT	8 OHM NCTR	P	1	PCS
PT201	80LL15T 7YSG	X'FMR	P	1	PCS
PT202	80LL15T 7YSG	X'FMR	P	1	PCS
Q209	57G 761 6	2SC5706-P-E	P	1	PCS
Q210	57G 761 6	2SC5706-P-E	P	1	PCS
Q211	57G 761 6	2SC5706-P-E	P	1	PCS
Q212	57G 761 6	2SC5706-P-E	P	1	PCS
R903	61L152M104 64	100KOHM 5% 2W	P	1	PCS
R919	61L 2J398 59	0.39 OHM 5% 2W	P	1	PCS
T901	80LL17T 2 T	X'FMR	P	1	PCS
	PW7425A3E22AI	POWER BOARD FOR AI	M	1	PCS
C203	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C209	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C210	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C211	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C212	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C219	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C220	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C224	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS

C225	65L0805105 27	CHIP 1UF 25V Y5V 0805	P	1	PCS
C910	65L0805104 32	CHIP 0.1UF 50V X7R	P	1	PCS
C927	65L0805104 32	CHIP 0.1UF 50V X7R	P	1	PCS
D201	93G3004 2	SR34 PAN JIT	P	1	PCS
D202	93G3004 2	SR34 PAN JIT	P	1	PCS
D203	93G 39S 3 T	BZT52-C11	P	1	PCS
D204	93G 39S 3 T	BZT52-C11	P	1	PCS
Q201	57G 760 5B	PDTC144WK SOT346	P	1	PCS
Q202	57G 760 4B	PDTA144WK SOT346	P	1	PCS
Q203	57G 763 3B	AM9435P.T1-PF SO-8	P	1	PCS
Q204	57G 763 3B	AM9435P.T1-PF SO-8	P	1	PCS
Q205	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS
Q206	57G 417 4	PMBS3904/PHILIPS-SMT(04	P	1	PCS
Q207	57G 417 6	PMBS3906/PHILIPS-SMT(06	P	1	PCS
Q208	57G 417 6	PMBS3906/PHILIPS-SMT(06	P	1	PCS
R208	61L0805472	CHIRP 4.7K OHM +-5% 1/8	P	1	PCS
R209	61L0805472	CHIRP 4.7K OHM +-5% 1/8	P	1	PCS
R212	61L0603392	CHIP 3.9K OHM 1/10W	P	1	PCS
R213	61L0603392	CHIP 3.9K OHM 1/10W	P	1	PCS
R216	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R217	61L0603221	CHIPR 220 OHM+-5% 1/10W	P	1	PCS
R224	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R225	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R226	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R227	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R228	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R229	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R230	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R231	61L1206152	CHIPR 1.5K OHM+-5%1/4W	P	1	PCS
R901	61L1206105	CHIP 1MOHM 5% 1/4W	P	1	PCS
R902	61L1206105	CHIP 1MOHM 5% 1/4W	P	1	PCS
R904	61L1206105	CHIP 1MOHM 5% 1/4W	P	1	PCS
R905	61L1206105	CHIP 1MOHM 5% 1/4W	P	1	PCS
R906	61L1206754	CHIP 750KOHM 5% 1/4W	P	1	PCS
R907	61L1206754	CHIP 750KOHM 5% 1/4W	P	1	PCS
R909	61L1206472	CHIP 4.7KOHM 5% 1/4W	P	1	PCS
R910	61L1206472	CHIP 4.7KOHM 5% 1/4W	P	1	PCS
R911	61L1206472	CHIP 4.7KOHM 5% 1/4W	P	1	PCS

R912	61L1206101	CHIP 100 OHM 5% 1/4W	P	1	PCS
R915	61L1206103	CHIP 10KOHM 5% 1/4W	P	1	PCS
R916	61L1206240 2F	CHIP 24KOHM1% 1/4W	P	1	PCS
R917	61L1206100	CHIPR 10 OHM+-5% 1/4W	P	1	PCS
R918	61L1206103	CHIP 10KOHM 5% 1/4W	P	1	PCS
R924	61L0805333	CHIP 33KOHM 1% 1/8W	P	1	PCS
R925	61L0603362	CHIP 3.6K OHM 1/10W	P	1	PCS
R926	61L0805242	CHIP 2.4KOHM 1% 1/8W	P	1	PCS
R927	61L0805102	CHIPR 1K OHM +-5% 1/8W	P	1	PCS
R928	61L0805102	CHIPR 1K OHM +-5% 1/8W	P	1	PCS
R929	61L0603000	CHIPR 0OHM +-5% 1/10W	P	1	PCS
R930	61L1206101	CHIP 100 OHM 5% 1/4W	P	1	PCS
R931	61L0603102	CHIPR 1K OHM +-5% 1/10W	P	1	PCS
U201	56G 622 1	BA9741F-SMT	P	1	PCS
ZD901	93L 39S 20 T	RLZ22B BY ROHM	P	1	PCS
ZD904	93L 39S 19 T	PTZ7.5B	P	1	PCS
	715L1103 117A	PCB	P	1	PCS
C201	67L215C1514HT	LOW ESR 150UF 25V 8*7MM	P	1	PCS
C204	64L700J1040AT	0.1UF 50V PEN	P	1	PCS
C205	64L700J1040AT	0.1UF 50V PEN	P	1	PCS
C206	64L700J1040AT	0.1UF 50V PEN	P	1	PCS
C207	67L 305479 7T	4.7UF 20% 50V 105	P	1	PCS
C208	65L 44233113T	330PJNPO 50V	P	1	PCS
C221	64L701J4740AT	0.47uF 50V	P	1	PCS
C222	64L701J4740AT	0.47uF 50V	P	1	PCS
C223	67L215C1514HT	LOW ESR 150UF 25V 8*7MM	P	1	PCS
C398	65L 444471 5T	470P/50V DIP	P	1	PCS
C399	65L 444471 5T	470P/50V DIP	P	1	PCS
C905	6G 31502	1.5MM RIVET	P	2	PCS
C907	67L 305220 7T	22UF +-20% 50V	P	1	PCS
C908	65L 450104 7T	0.1UF +80-20% 50V Y5V	P	1	PCS
C909	64L700J1040AT	0.1UF 50V PEN	P	1	PCS
C911	64L700J1020AT	1000PF 50V PEN	P	1	PCS
C920	65L517K102 5T6213	1000PF 10% Y5P 500V	P	1	PCS
C921	65L517K102 5T6213	1000PF 10% Y5P 500V	P	1	PCS
C924	67L215B4713HT	470UF 16V LTR471M1CF11V	P	1	PCS
C926	67L215B4713HT	470UF 16V LTR471M1CF11V	P	1	PCS
C936	64L700J1040AT	0.1UF 50V PEN	P	1	PCS

D205	93L 64 1152T	1N4148	P	1	PCS
D206	93L 64 1152T	1N4148	P	1	PCS
D207	93L 64 1152T	1N4148	P	1	PCS
D208	93L 64 1152T	1N4148	P	1	PCS
D209	93L 64 1152T	1N4148	P	1	PCS
D210	93L 64 1152T	1N4148	P	1	PCS
D901	93G 6026T52T	RECTIFIER DIODE FR107	P	1	PCS
D902	93G 6038T52T	FR103	P	1	PCS
D903	93L 64 1152T	1N4148	P	1	PCS
F901	84G 56 1	FUSE 2A 250V WICKMANN	P	1	PCS
FB902	71L 55 19 T	FERRITE BEAD 9X3.5X0.8	P	1	PCS
IC903	56L 158 4 T A	H431BA	P	1	PCS
L902	6G 31502	1.5MM RIVET	P	4	PCS
NR901	6G 31502	1.5MM RIVET	P	2	PCS
PT201	6G 31502	1.5MM RIVET	P	2	PCS
PT202	6G 31502	1.5MM RIVET	P	2	PCS
Q901	57L 420 PP T	2PA733P	P	1	PCS
Q902	57L 419 PP T	2PC945P	P	1	PCS
Q903	6G 31502	1.5MM RIVET	P	1	PCS
R201	61L 60227352T	27KOHM 5% 1/6W	P	1	PCS
R202	61L 60210352T	CFR 10K OHM+-5% 1/6W	P	1	PCS
R203	61L 60210352T	CFR 10K OHM+-5% 1/6W	P	1	PCS
R204	61L 60210352T	CFR 10K OHM+-5% 1/6W	P	1	PCS
R205	61L 60247352T	47KOHM 5% 1/6W	P	1	PCS
R206	61L 60247352T	47KOHM 5% 1/6W	P	1	PCS
R210	61L 60215352T	15KOHM 5% 1/6W	P	1	PCS
R211	61L 60215352T	15KOHM 5% 1/6W	P	1	PCS
R214	61L 60222252T	2.2K 5% 1/6W	P	1	PCS
R215	61L 60222252T	2.2K 5% 1/6W	P	1	PCS
R218	61L 60210152T	100OHM +- 5% 1/6W	P	1	PCS
R219	61L 60210152T	100OHM +- 5% 1/6W	P	1	PCS
R220	61L 60216352T	CFR 16KOHM +-5% 1/6W	P	1	PCS
R221	61L 60215352T	15KOHM 5% 1/6W	P	1	PCS
R222	61L 60212352T	12KOHM 5% 1/6W	P	1	PCS
R223	61L 60212352T	12KOHM 5% 1/6W	P	1	PCS
R232	61L 60210252T	CFR 1K OHM+-5% 1/6W	P	1	PCS
R233	61L 60210252T	CFR 1K OHM+-5% 1/6W	P	1	PCS
R234	61L 60291152T	CFR 910 OHM+-5% 1/6W	P	1	PCS

R235	61L 60291152T	CFR 910 OHM+-5% 1/6W	P	1	PCS
R236	61L 60262152T	620 OHM 5% 1/6W	P	1	PCS
R237	61L 60262152T	620 OHM 5% 1/6W	P	1	PCS
R238	61L 60212352T	12KOHM 5% 1/6W	P	1	PCS
R239	61L 60212352T	12KOHM 5% 1/6W	P	1	PCS
R240	61L 60251352T	51KOHM +-5% 1/6W	P	1	PCS
R241	61L 60251352T	51KOHM +-5% 1/6W	P	1	PCS
R243	61L 17210252T	1K OHM 5% 1/4W	P	1	PCS
R244	61L 17210252T	1K OHM 5% 1/4W	P	1	PCS
R908	61L 17268952T	6.8OHM 5% 1/4W	P	1	PCS
R920	61G 20747052T	47 OHM 1/2W	P	1	PCS
R922	61G 20747052T	47 OHM 1/2W	P	1	PCS
T901	6G 31502	1.5MM RIVET	P	4	PCS
ZD902	93L 39 5452T	ZENER HZ12B2	P	1	PCS
ZD903	93G 39 7752T	HZ5C1-E	P	1	PCS
	95L205S354022	HARNESS	P	1	PCS
	96L 29 6	SHRINK TUBE UL/CSA	P	20	MM
CN901	87G 501 12 CJ	AC SOCKET	P	1	PCS
	90L6064 1	HEAT SINK	P	1	PCS
	M1L1730 8128	SCREW M3x8	P	2	PCS
D910	93G 60239	FME-210B T0-220	P	1	PCS
D912	93G 60217	FMB-29L	P	1	PCS
	90L 407 2	HEAT SINK	P	1	PCS
	M1L1730 8128	SCREW M3x8	P	1	PCS
Q903	57G 724 4A	STP9NK60ZEP	P	1	PCS
	33G4693 AI L	FUNCTION BUTTON	P	1	PCS
	33G4694 1 C	POWER LENS	P	1	PCS
	33G4695 1 C	CLAMP	P	1	PCS
	34L1271AGM 1B	BEZEL	P	1	PCS
	34L1273 GM B	STAND	P	1	PCS
	37G 489 1	HINGE ASS'Y	P	1	PCS
	Q1L 330 8120	SCREW 3X8mm	P	2	PCS
	Q1L1030 8128	SCREW	P	1	PCS
	Q1L1030 10128	SCREW	P	2	PCS