Service
Service
Service

Service Manual

Horizontal Frequency

30- 83 kHz

TABLE OF CONTENTS

SAFETY NOTICE

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

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

TPV AOC EYES VALUE

Revision List

Version	Date	Revision History	TPV Model Name
A00	Jun.-30-06	Initial release	T980KMDDKHHPAP

1. Monitor Specification

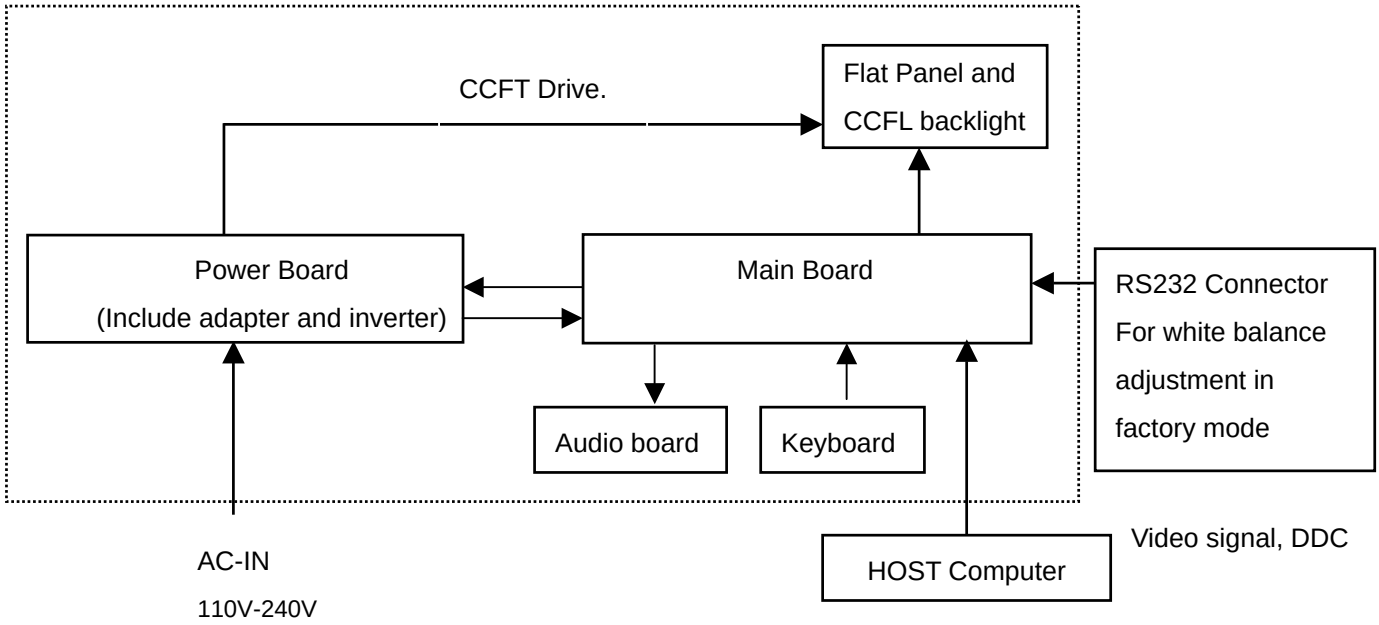
Items	Description	
LCD Panel	Driving system	TFT Color LCD
	Panel	M190E5-L0A
	Display area	376.32(H) x301.056 (V) (19.0")
	Pixel pitch	0.294mm(H) x 0.294mm(V)
	Viewable angle	150˚ (H) 130˚ (V)
	Response time (typ.)	8ms
	Brightness	300cd/m²
	Contrast	700:1
Input	Video	Analog
	Sync. Type	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	50-76Hz
Display Colors	Over 16 million Colors	
Dot Clock	140MHz	
Max. Resolution	1280 x 1024	
Plug & Play	VESA DDC2B™	
Power Consumption	ON Mode	≤37W
	Sleep Mode	≤2W
	OFF Mode	≤1W
Power Source	90~265VAC,47~63Hz	
Environmental Considerations	Operating Temp: 5°C to 35°C Storage Temp.: -20°C to 60°C Operating Humidity : 20% to 80%	

2.LCD Monitor Description

The LCD Monitor will contain main board, power board, key 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. Operation Instructions

3.1 General Instructions

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

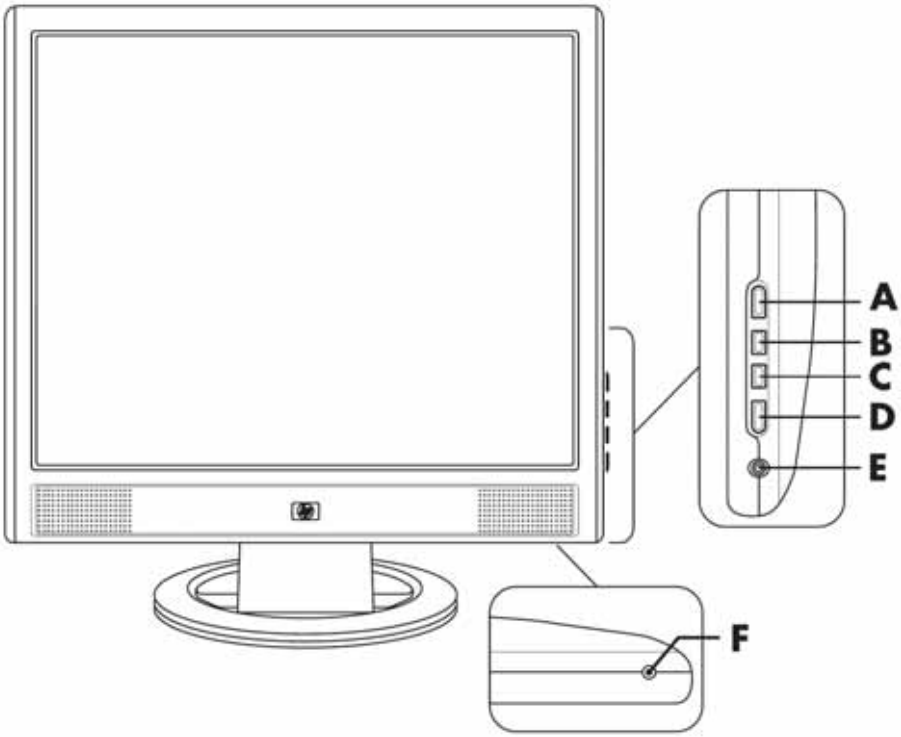
- The power cord should be connected and insert to adaptor.
- Connect the video cable from the monitor to the computer VGA card.
- Press the power button to turn on the monitor, the power indicator will light up to Green.

3.2 Control Buttons

- **Power Button:**
  When pressed, the monitor enters the off mode, and the LED turns blank. Press again to restore normal status.

- **Left / Right Button:**
  When the OSD show on screen, Left/Right Button are used to control the monitor functions. Press to switch functions or adjust settings. And if the OSD off, Left buttons is used to automatically set the H Position, V Position, Clock and Phase.

- **Power Indicator:**
  Green — Power On mode.
  Orange — Power Saving mode.
  Blank — Power Off Mode.



A	**Menu** (Onscreen Display)	*OSD Menu Active* Button closes OSD. (Also closes setting screens on OSD menu.)	*OSD Inactive* Button opens OSD.
B	/+ (Vol up/Plus)	*OSD Menu Active* Button navigates up or right browse, and adjusts settings up.	*OSD Inactive* Button increases the volume level of the monitor speakers.
C	/– (Vol down/Minus)	*OSD Menu Active* Button navigates down or left browse, and adjusts settings down.	*OSD Inactive* Button decreases the volume level of the monitor speakers.
D	**Auto/Select**	*OSD Menu Active* Button acts as an Enter (Select) key to select setting screen options.	*OSD Inactive* Button starts auto-adjustment, which automatically adjusts the display to the ideal setting.
E		*Power Switch* Turns monitor on and to standby (sleep mode).	*Power light* Fully powered: Blue Sleep mode: Amber
F	(Headphone jack)	When the headphones are connected, the monitor speakers are muted. *vs monitor only:* Connects a headphone set to the monitor.	

3.3 Adjust the Picture

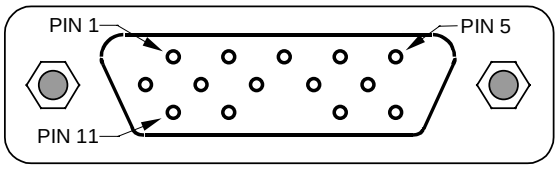
NO.	Control	Icons	NO.	Control	Icons
1	Brightness		16	Clock Phase	
2	Contrast		17	Power Saver	
3	Auto Adjustment		18	Mode Display	
4	Image Control		19	Power-On Status Display	
5	Color		20	Sleep Timer	
6	Custom Color		21	Basic Menu	
7	Language		22	Advanced Menu	
8	Management		23	Power On Recall	
9	OSD Control		24	Horizontal OSD Position	
10	Information		25	Vertical OSD Position	
11	Factory Reset		26	OSD Timeout	
12	Default Video Input		27	OSD Transparency	
13	Horizontal Position		28	Volume	
14	Vertical Position		29	Exit	
15	Clock				

4. Input/Output Specification

4.1 Input Signal Connector

Pin	Mnemonic	Signal	Pin	Mnemonic	Signal
1	RV	Red Video	9	+3.3/+5 V	+5 V (from PC)
2	GV	Green Video	10	SG	Sync Ground
3	BV	Blue Video	11	NC	None
4	NC	None	12	SDA	DDC Data
5	GND	Ground (DDC Return)	13	HS	Horizontal Sync
6	RG	Red GND	14	VS	Vertical Sync
7	GG	Green GND	15	SCL	DDC Clock
8	BG	Blue GND			

VGA connector layout



4.2 Factory Preset Display Modes

Preset	Pixel Format	Horz Freq (KHz)	Horz Polarity	Vert Freq (Hz)	Vert Polarity	Pixel Clk (MHz)	Source
1	640 x 480	31.469	-	59.940	-	25.175	VGA
2	640 x 480	37.861	-	72.809	-	31.500	VESA
3	640 x 480	37.500	-	75.000	-	31.500	VESA
4	720 x 400	31.469	-	70.087	+	28.322	VGA
5	800 x 600	37.879	+	60.317	+	40.000	VESA
6	800 x 600	48.077	+	72.188	+	50.000	VESA
7	800 x 600	46.875	+	75.000	+	49.500	VESA
8	832 x 624	49.726	±	74.551	±	57.284	MAC
9	1024 x 768	48.363	-	60.004	-	65.000	VESA
10	1024 x 768	56.476	-	70.069	-	75.000	VESA
11	1024 x 768	60.023	+	75.029	+	78.750	VESA
12	1152 x 870	68.68	-	75.06	-	100.000	Mac
13	1152 x 900	71.71	-	76.05	-	105.561	Sun
14	1280 x 1024	63.98	+	60.02	+	108.000	VESA
15	1280 x 1024	79.97	+	75.02	+	135.000	VESA

4.3 Power Supply Requirements

Parameter	Range
AC Input Voltage	90 to 265V
AC Input Frequency	47 to 63 Hz
Inrush Current	50A MAX AT 220VAC and 30A AT 120VAC
Leakage Current	5 mA MAX at 120VAC
Power Consumption	≤37W

5. Panel Specification

5.1 General Feature

- Wide viewing angle.
- High contrast ratio
- Super fast response time
- High color saturation
- SXGA (1280 x 1024 pixels) resolution
- DE (Data Enable) only mode
- LVDS (Low Voltage Differential Signaling) interface
- RoHS Compliance

Item	Specification	Unit
Active Area	376.32 (H) x 301.056 (V) (19.0" diagonal)	mm
Bezel Opening Area	380.2(H) x 305(V)	mm
Driver Element	a-si TFT active matrix	-
Pixel Number	1280 x R.G.B. x 1024	pixel
Pixel Pitch	0.294 (H) x 0.294 (V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.2M	color
Transmissive Mode	Normally White	-
Surface Treatment	Hard coating (3H), Anti-glare (Haze 25)	-

Mechanical Information

Item		Min.	Typ.	Max.	Unit
Module Size	Horizontal(H)	395.5	396.0	396.5	mm
	Vertical(V)	323.5	324.0	324.5	mm
	Depth(D)	16.0	16.5	17.0	mm
Weight		-		2350	g

5.2 Optical Characteristics

Test Conditions

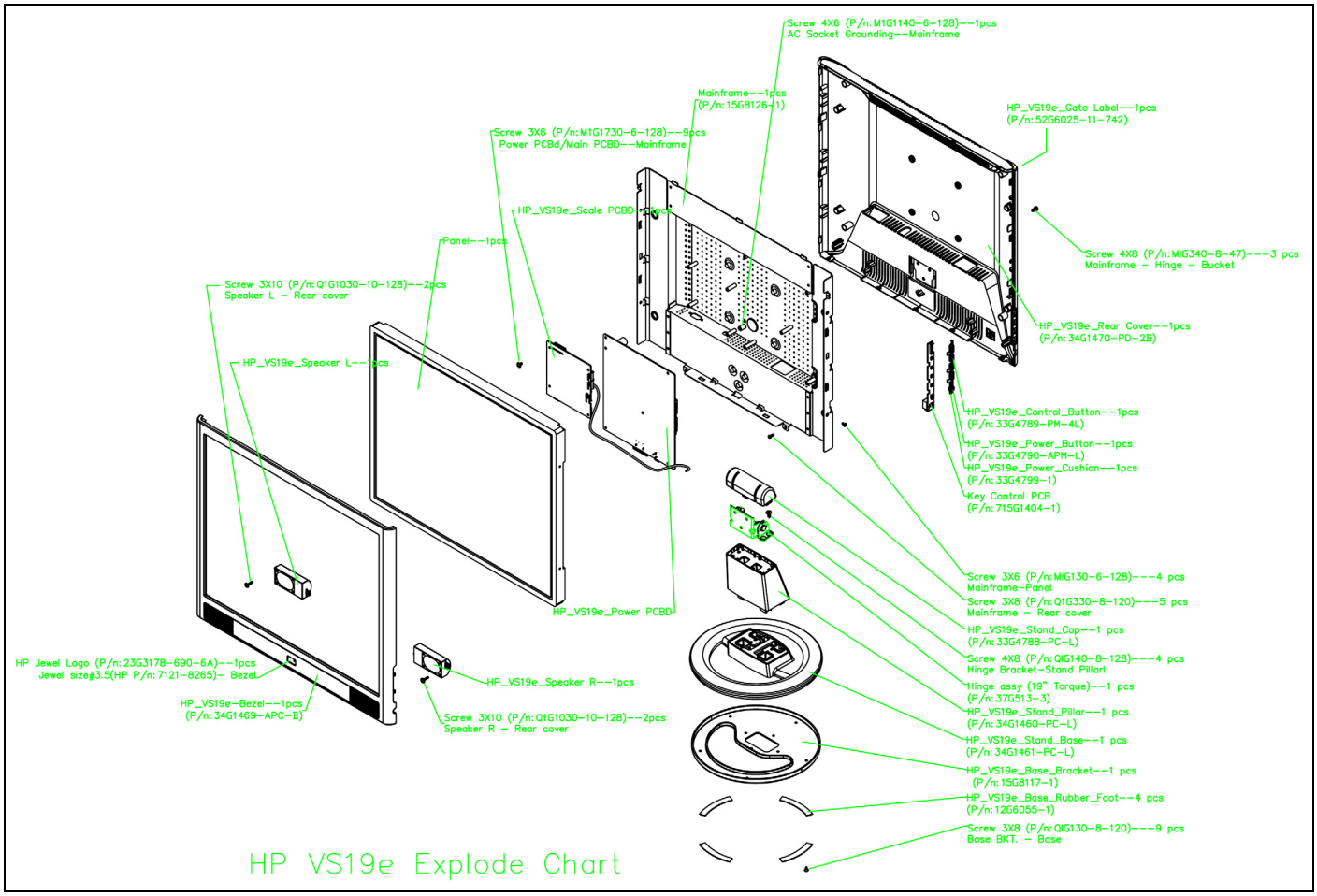
Item	Symbol	Value	Unit
Ambient Temperature	Ta	25±2	°C
Ambient Humidity	Ha	50±10	%RH
Supply Voltage	V_{CC}	5.0	V
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"		
Lamp Current	I_L	7	mA
Inverter Operating Frequency	F_L	61	KHz
Inverter	SUMIDA H05 5307		

Optical Specification

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	Rx	θ_x=0°, θ_Y =0° CS-1000T	Typ – 0.03	0.645	Typ + 0.03	
		Ry			0.332		
	Green	Gx			0.285		
		Gy			0.600		
	Blue	Bx			0.151		
		By			0.074		
	White	Wx			0.313		
		Wy			0.329		
Center Luminance of White		L_C		230	300	---	cd/m^2
Contrast Ratio		CR		450	700	---	-
Response Time		T_R	θ_x=0°, θ_Y =0°	---	2	4	ms
		T_F		---	6	12	
White Variation		δW	θ_x=0°, θ_Y =0° BM-5A	---	1.25	1.40	-
Cross Talk		CT		---	---	5.0	%
Viewing Angle	Horizontal	θ_x+	CR • •10 BM-5A	65	75	---	Deg.
		θ_x-		65	75	---	
	Vertical	θ_Y+		60	70	---	
		θ_Y-		50	60	---	

6. Block Diagram

6.1 Monitor Exploded View



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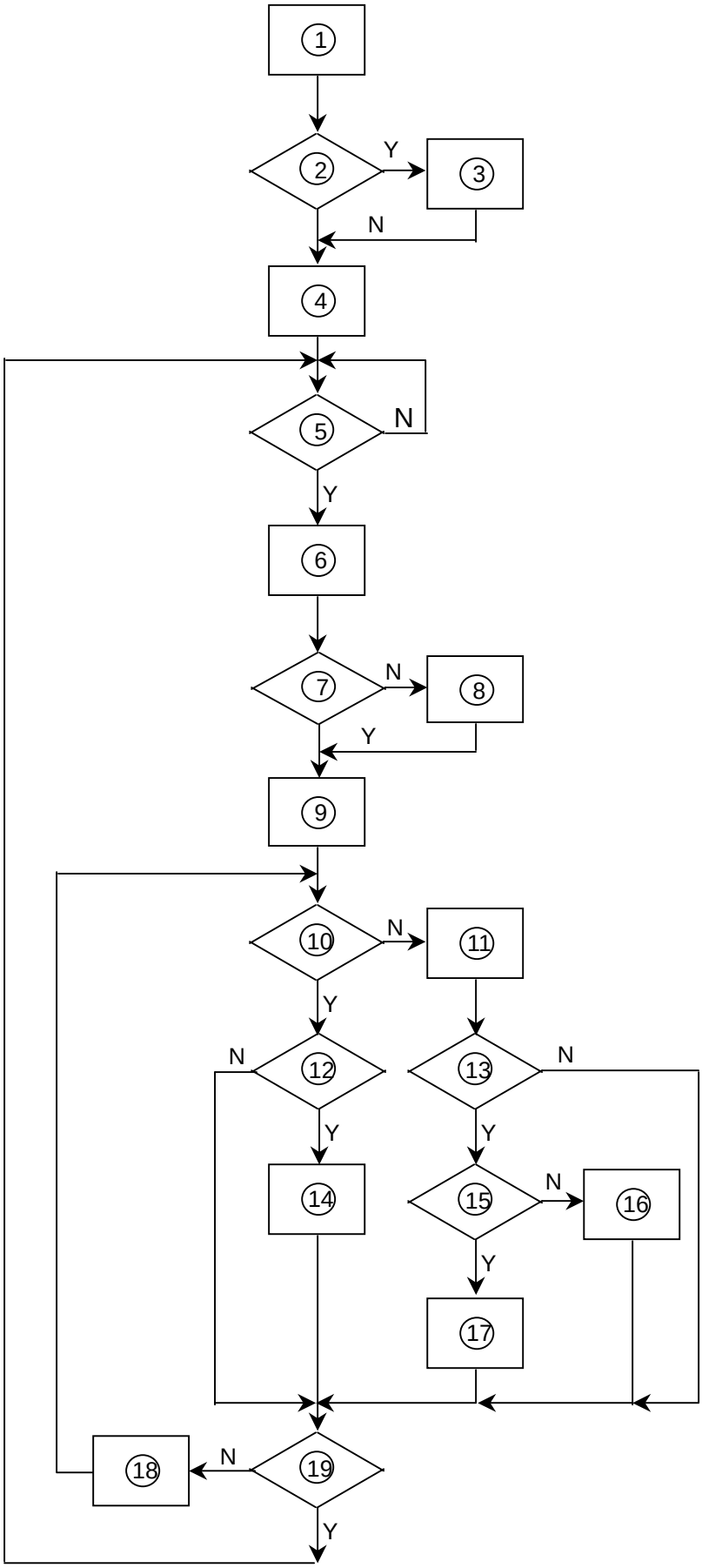
6.2 Software Flow Chart

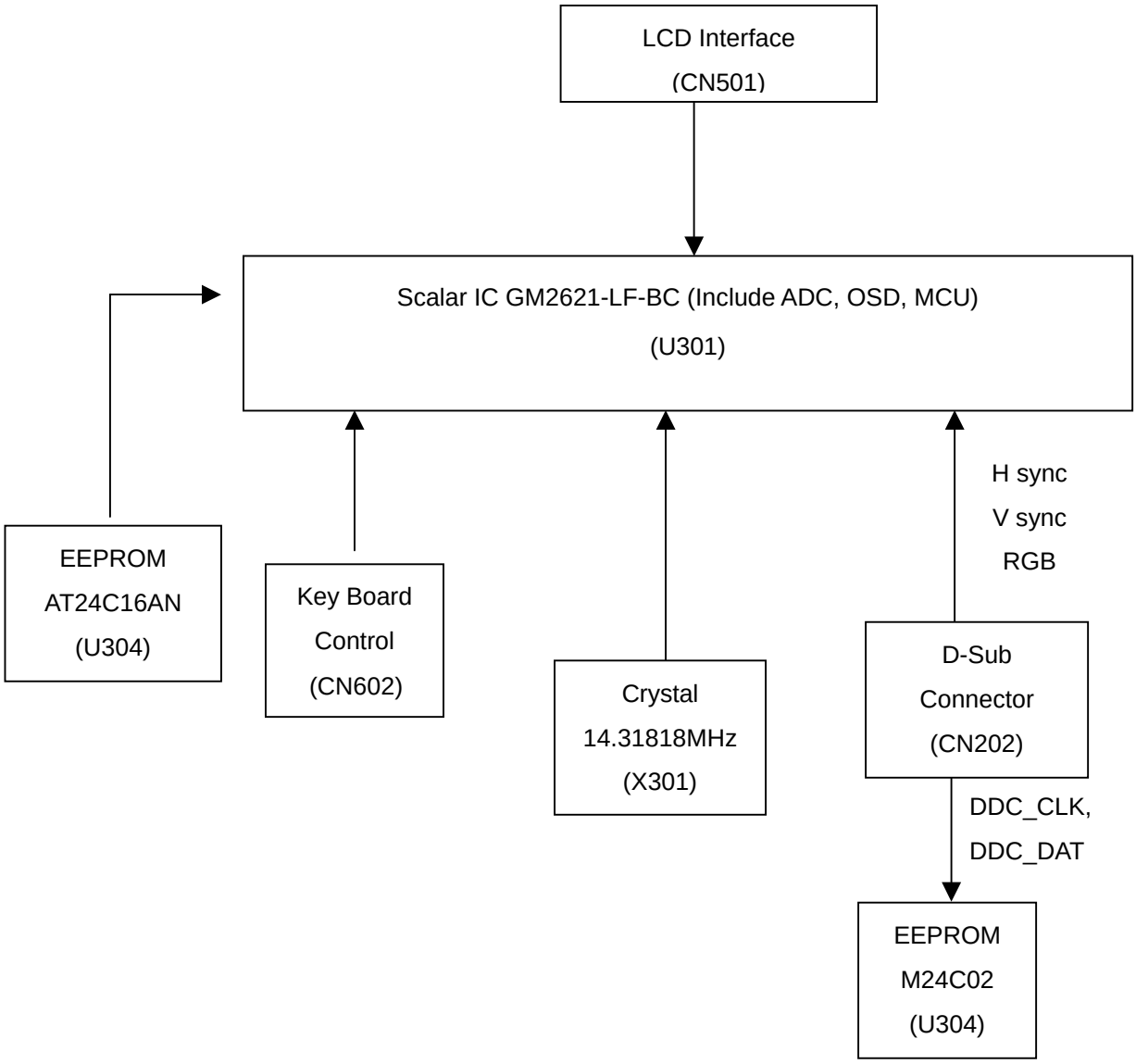


REMARK:

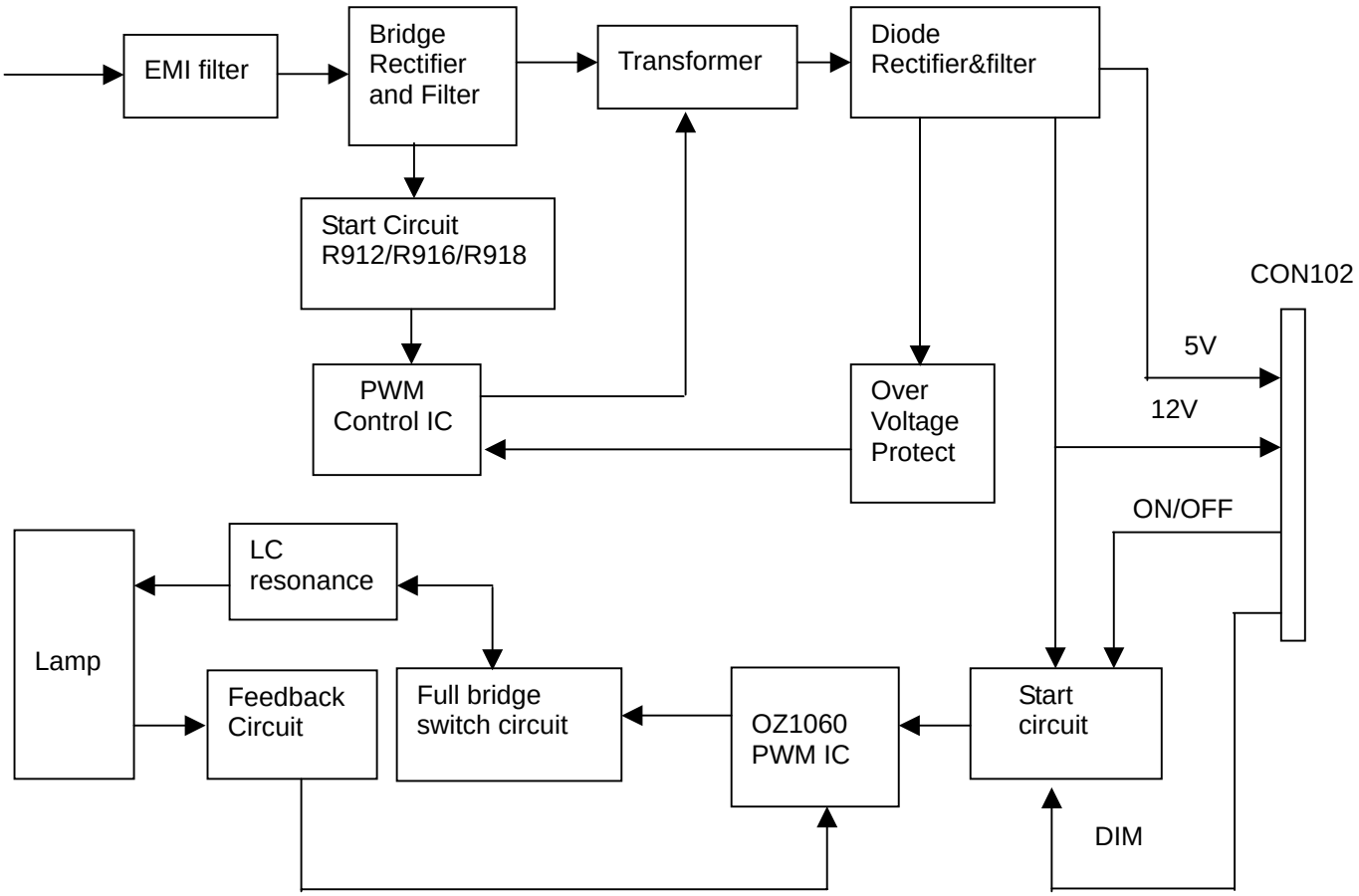
1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom. Turn on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

6.3 Electrical Block Diagram

6.3.1 Scalar Board

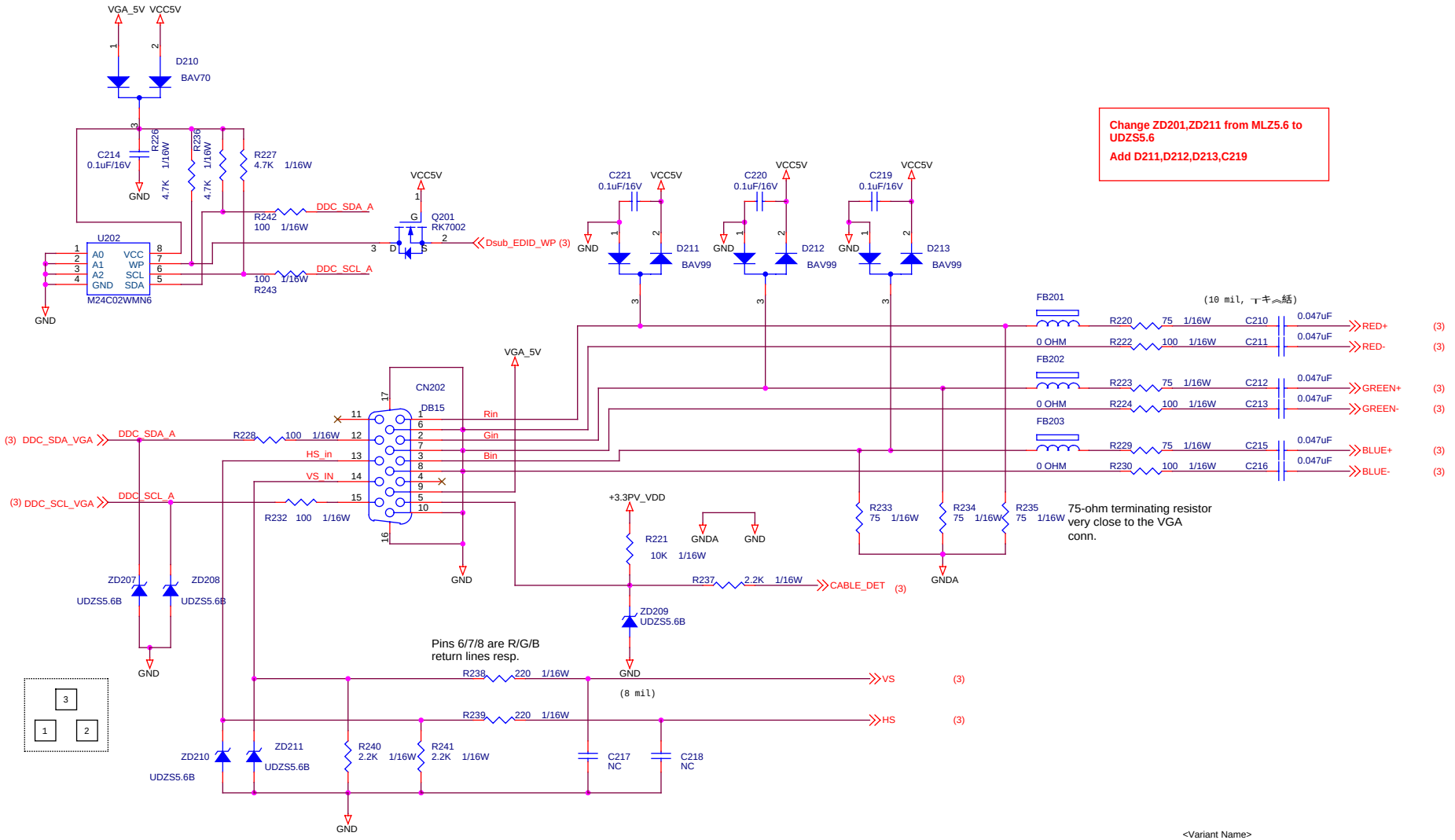


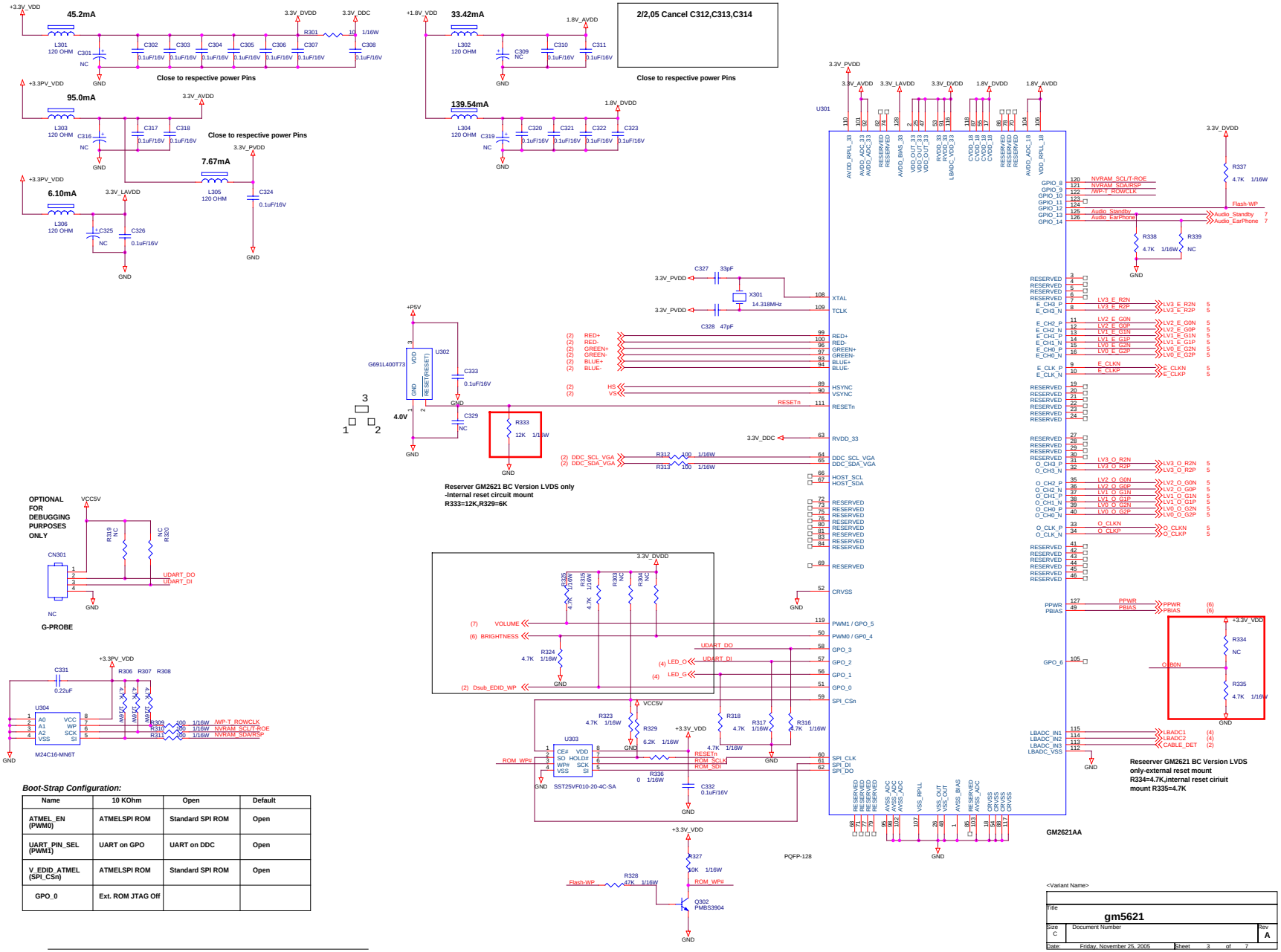
6.3.2 Inverter / Power Board



7. Schematic

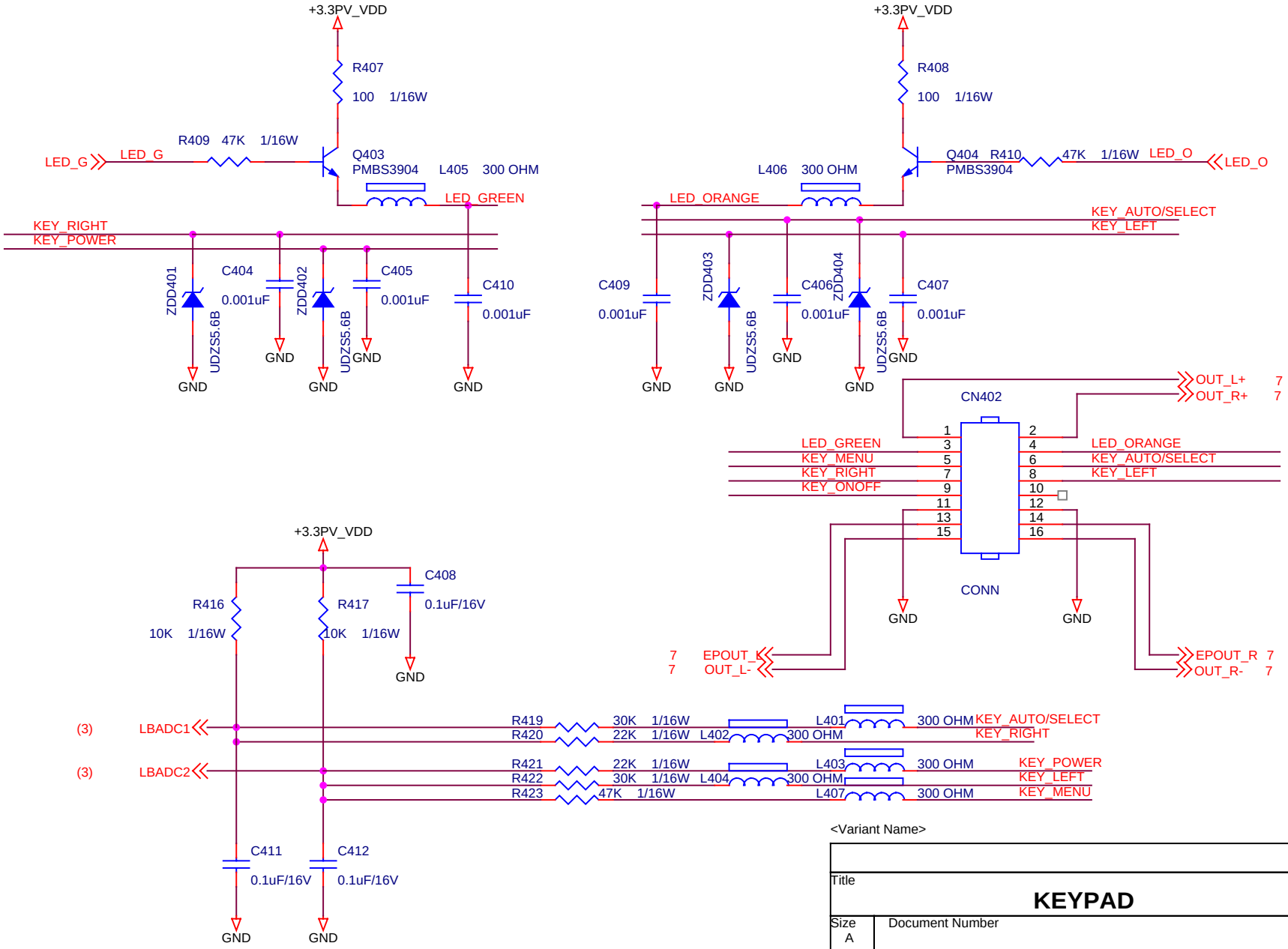
7.1 Main Board





Boot-Strap Configuration:

Name	10 KOhm	Open	Default
ATMEL_EN (PWM0)	ATMELSPI ROM	Standard SPI ROM	Open
UART_PIN_SEL (PWM1)	UART on GPO	UART on DDC	Open
V_EDID_ATMEL (SPI_CSn)	ATMELSPI ROM	Standard SPI ROM	Open
GPO_0	Ext. ROM JTAG Off		



<Variant Name>

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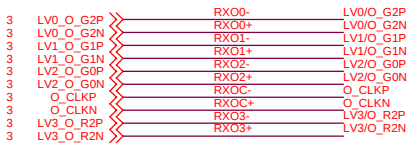

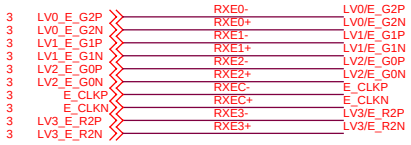

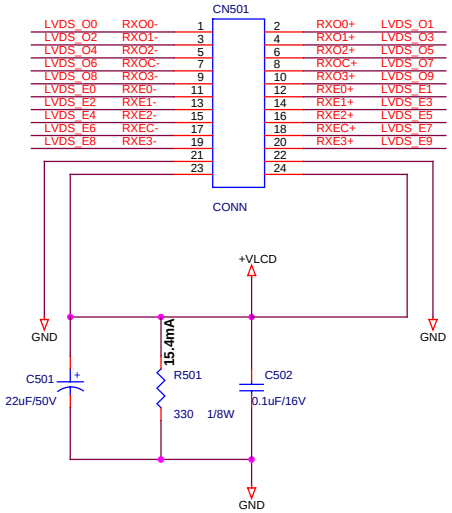

AU EN04-V2= 1.113A

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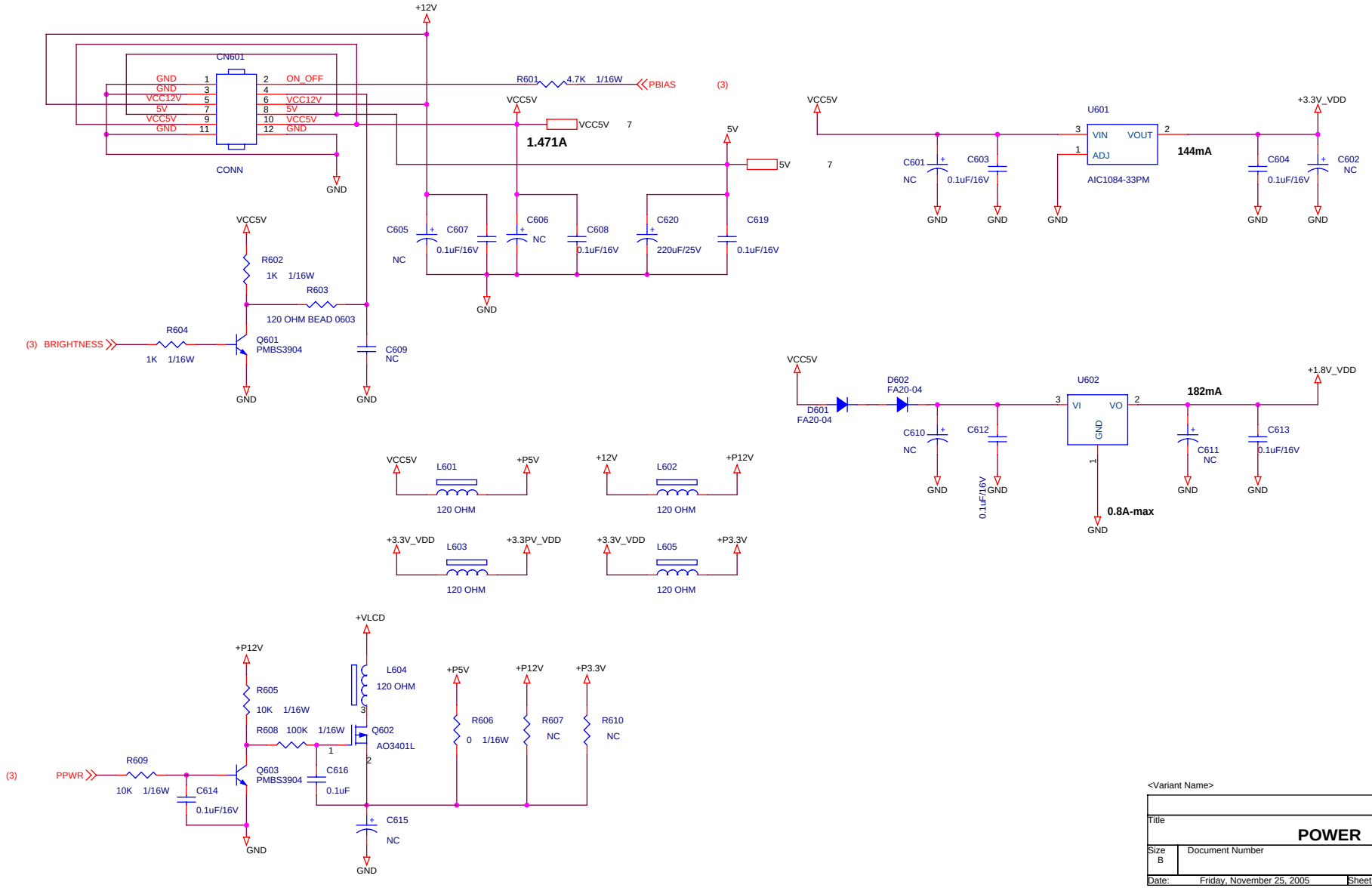

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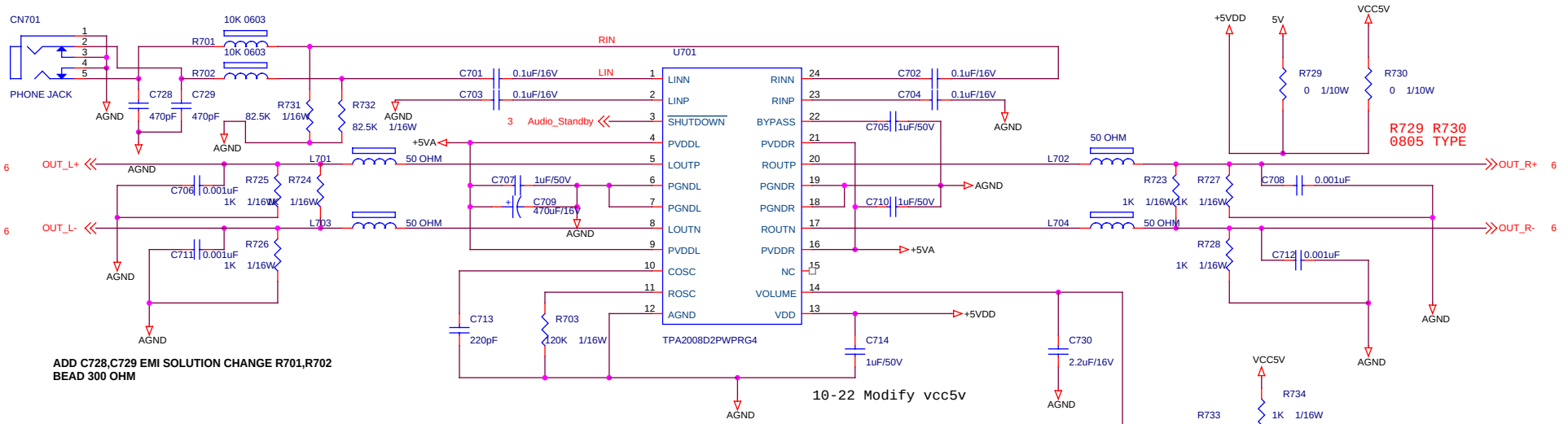

5V	VCC5V
VS19	VS17/VS15

<Variant Name>

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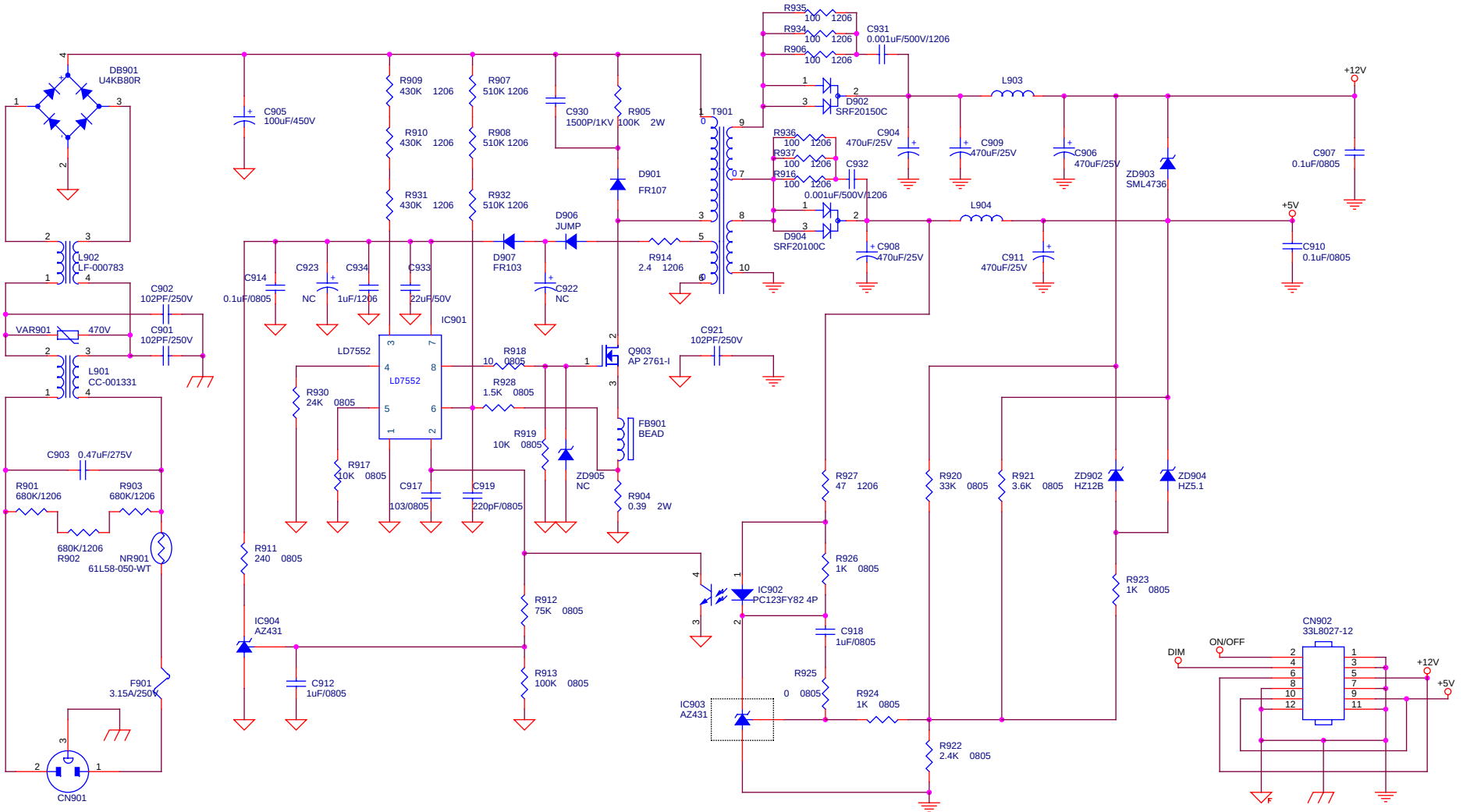
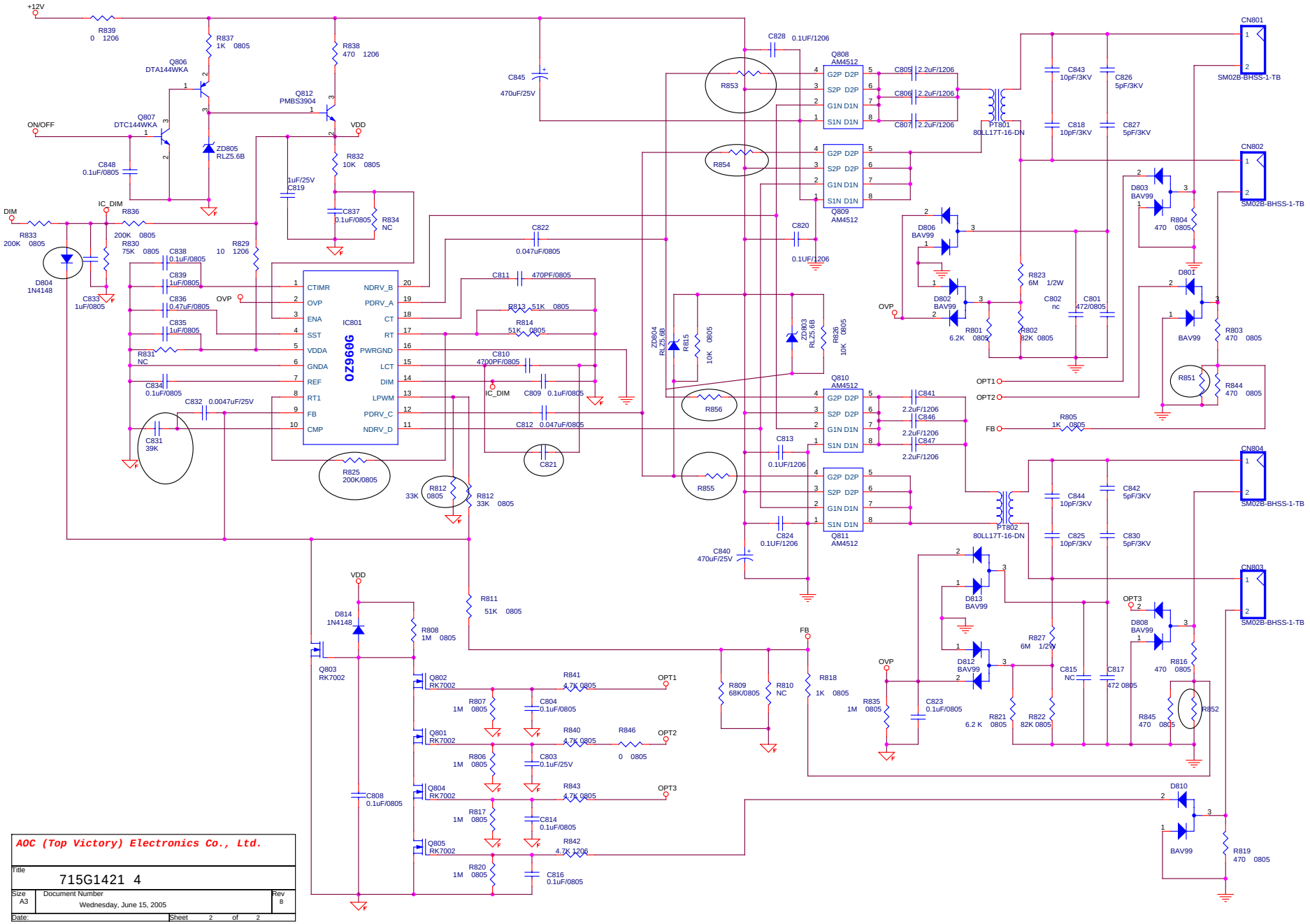
Size B	Document Number AUDIO	Rev D
Date: Friday, November 25, 2005	Sheet 7 of 7	

7.2 Power Board



AOC (Top Victory) Electronics Co., Ltd.		
Title		
Size B	Document Number 715G1421 4	Rev B
Date: Wednesday, June 15, 2005	Sheet 1 of 2	


+12V
ON/OFF
DIM
IC_DIM
VDD
OVP
FB
OPT1
OPT2
OPT3
IC801
9966ZO
CTIMR
OVP
ENA
SST
VDDA
GNDA
REF
RT1
FB
CMP
NDRV_B
PDRV_A
CT
RT
PWRGND
LCT
DIM
LPWM
PDRV_C
NDRV_D
Q806 DTA144WKA
Q807 DTC144WKA
Q812 PMBS3904
ZD805 RLZ5.6B
Q808 AM4512
Q809 AM4512
Q810 AM4512
Q811 AM4512
PT801 80LL17T-16-DN
PT802 80LL17T-16-DN
CN801 SM02B-BHSS-1-TB
CN802 SM02B-BHSS-1-TB
CN803 SM02B-BHSS-1-TB
CN804 SM02B-BHSS-1-TB
Q803 RK7002
Q802 RK7002
Q801 RK7002
Q804 RK7002
Q805 RK7002
D801 BAV99
D802 BAV99
D803 BAV99
D804 1N4148
D806 BAV99
D808 BAV99
D810 BAV99
D812 BAV99
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ZD804 RLZ5.6B
ZD803 RLZ5.6B
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715G1421 4
Size A3
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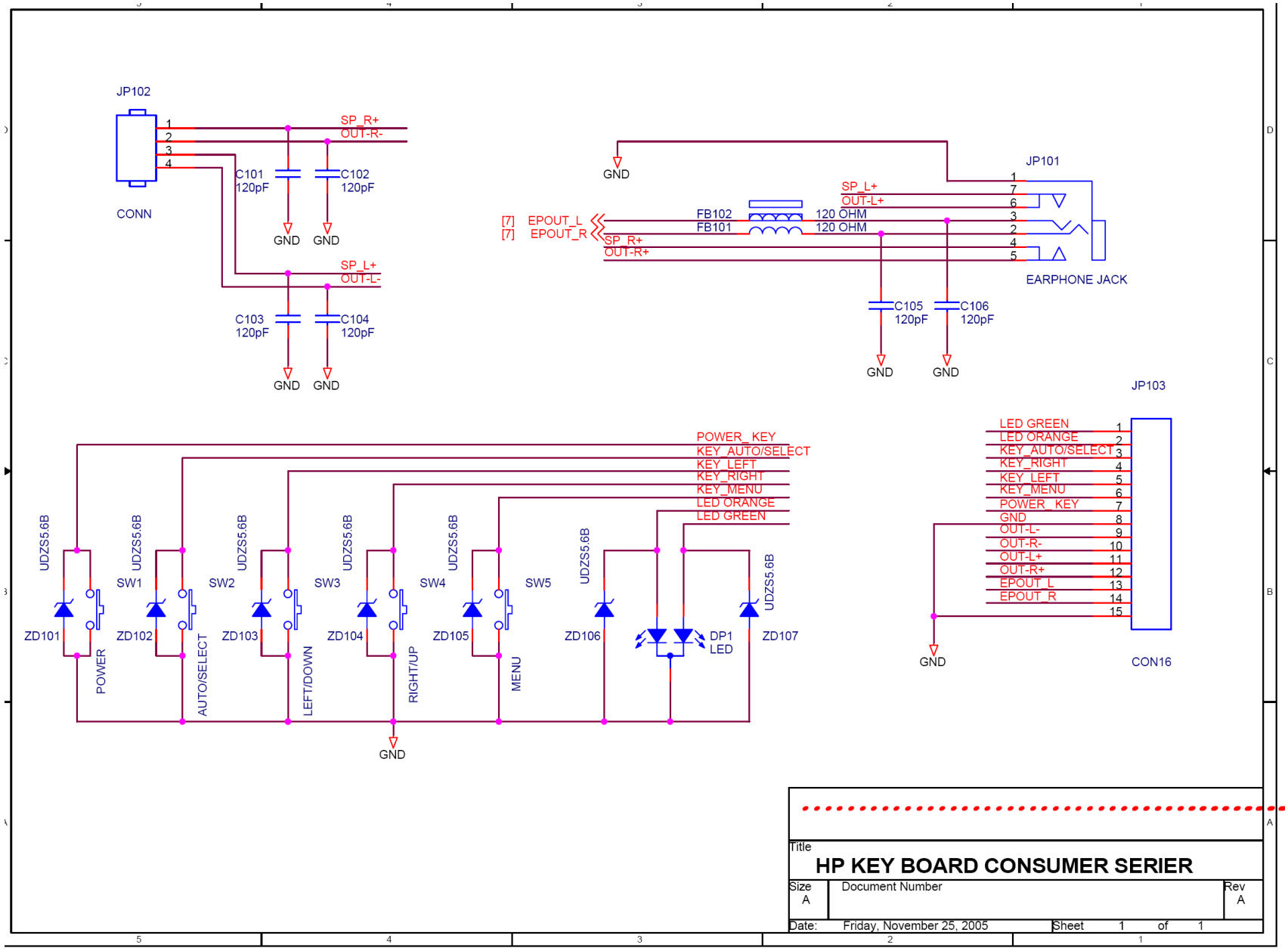
Rev B
Date:
Sheet 2 of 2

7.3 Key Board


JP102
SP_R+
OUT-R-
C101 120pF
C102 120pF
CONN
GND GND
SP_L+
OUT-L-
C103 120pF
C104 120pF
GND GND
GND
JP101
SP_L+
OUT-L+
[7] EPOUT_L
[7] EPOUT_R
FB102 120 OHM
FB101 120 OHM
SP_R+
OUT-R+
EARPHONE JACK
C105 120pF
C106 120pF
GND GND
JP103
POWER_KEY
KEY_AUTO/SELECT
KEY_LEFT
KEY_RIGHT
KEY_MENU
LED ORANGE
LED GREEN
UDZS5.6B
SW1
SW2
SW3
SW4
SW5
ZD101
ZD102
ZD103
ZD104
ZD105
ZD106
ZD107
DP1 LED
POWER
AUTO/SELECT
LEFT/DOWN
RIGHT/UP
MENU
GND
LED GREEN
LED ORANGE
KEY_AUTO/SELECT
KEY_RIGHT
KEY_LEFT
KEY_MENU
POWER_KEY
GND
OUT-L-
OUT-R-
OUT-L+
OUT-R+
EPOUT_L
EPOUT_R
GND
CON16
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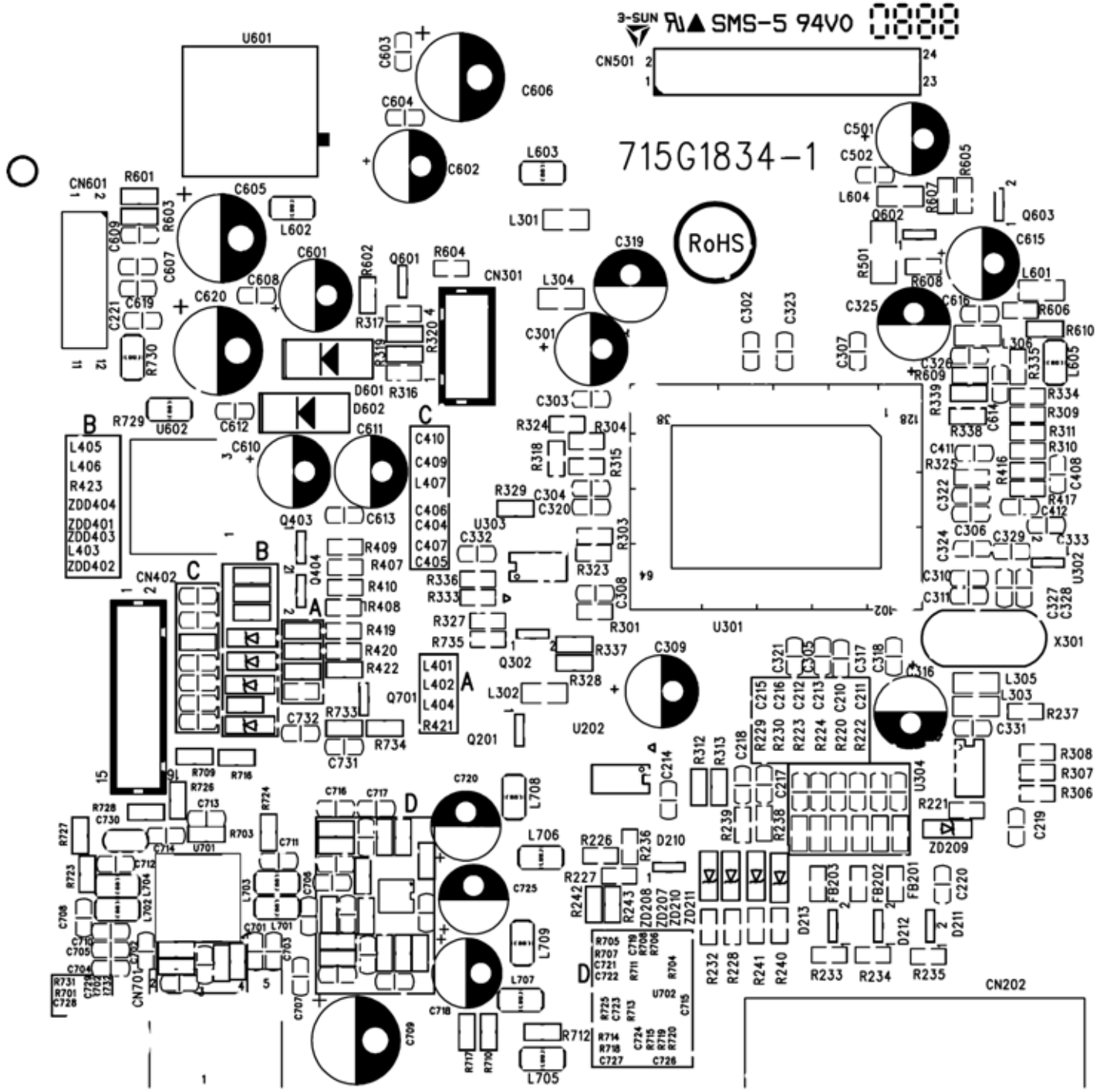
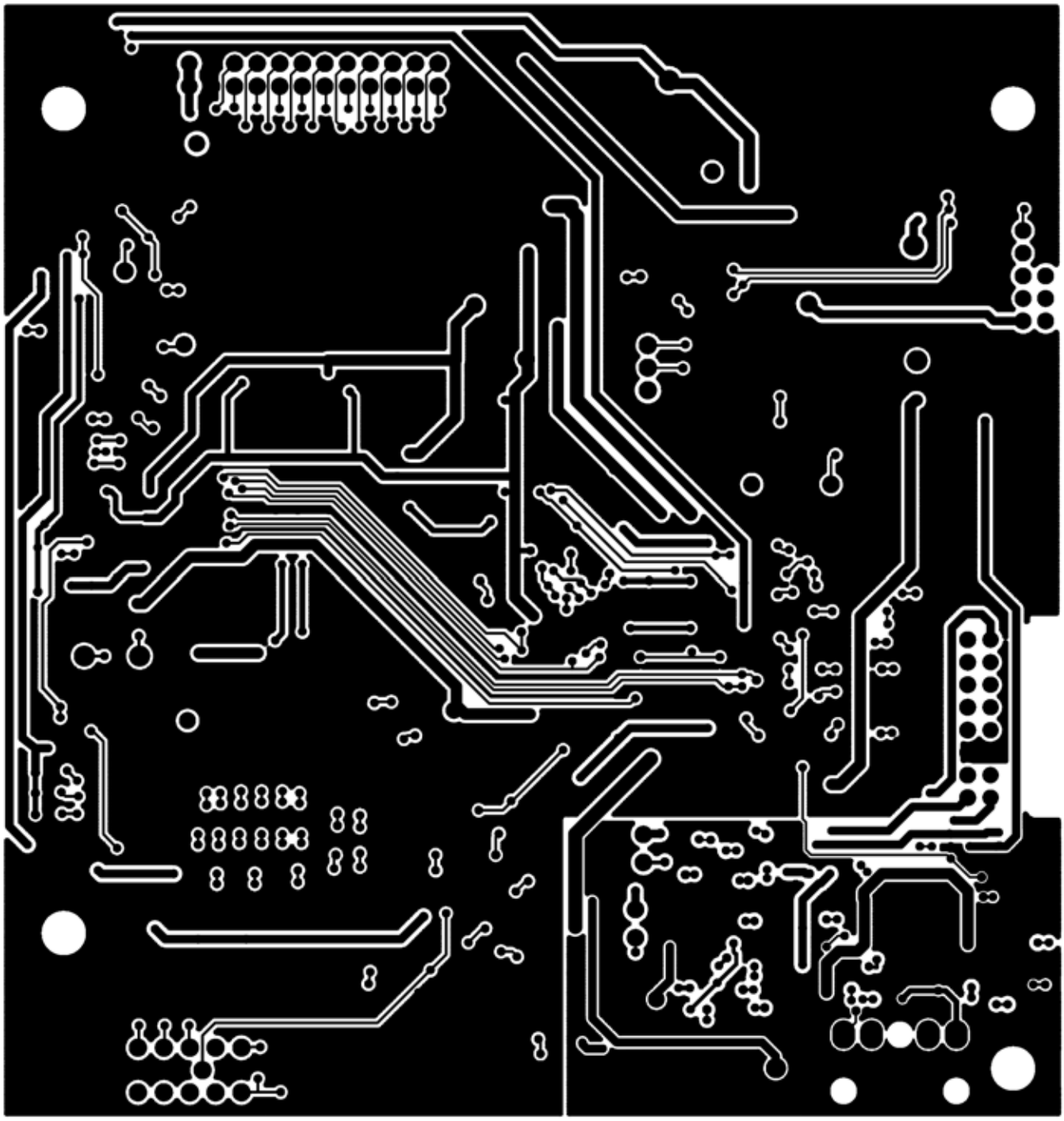
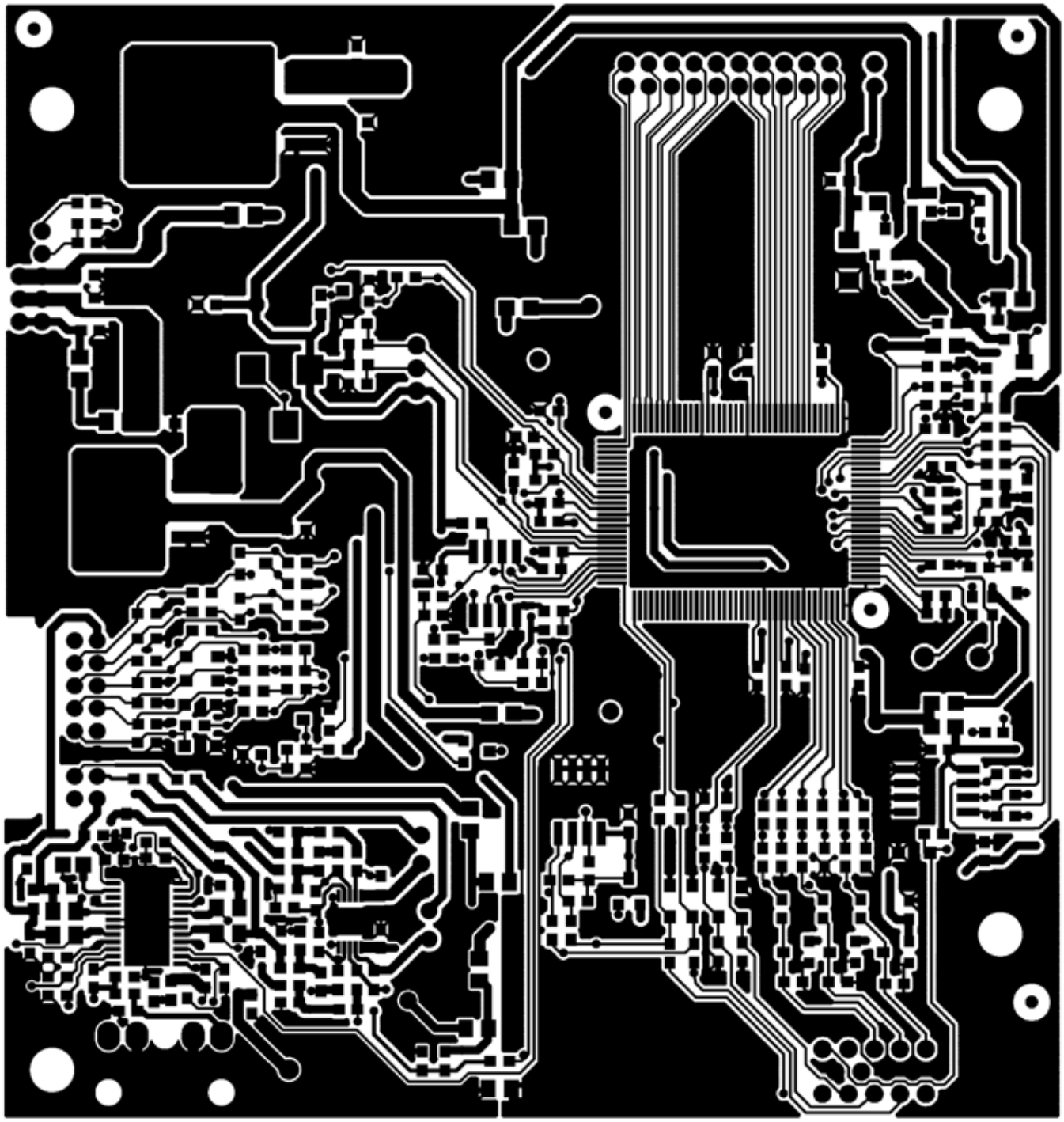
HP KEY BOARD CONSUMER SERIER
Size A
Document Number
Rev A
Date: Friday, November 25, 2005
Sheet 1 of 1

8. PCB Layout

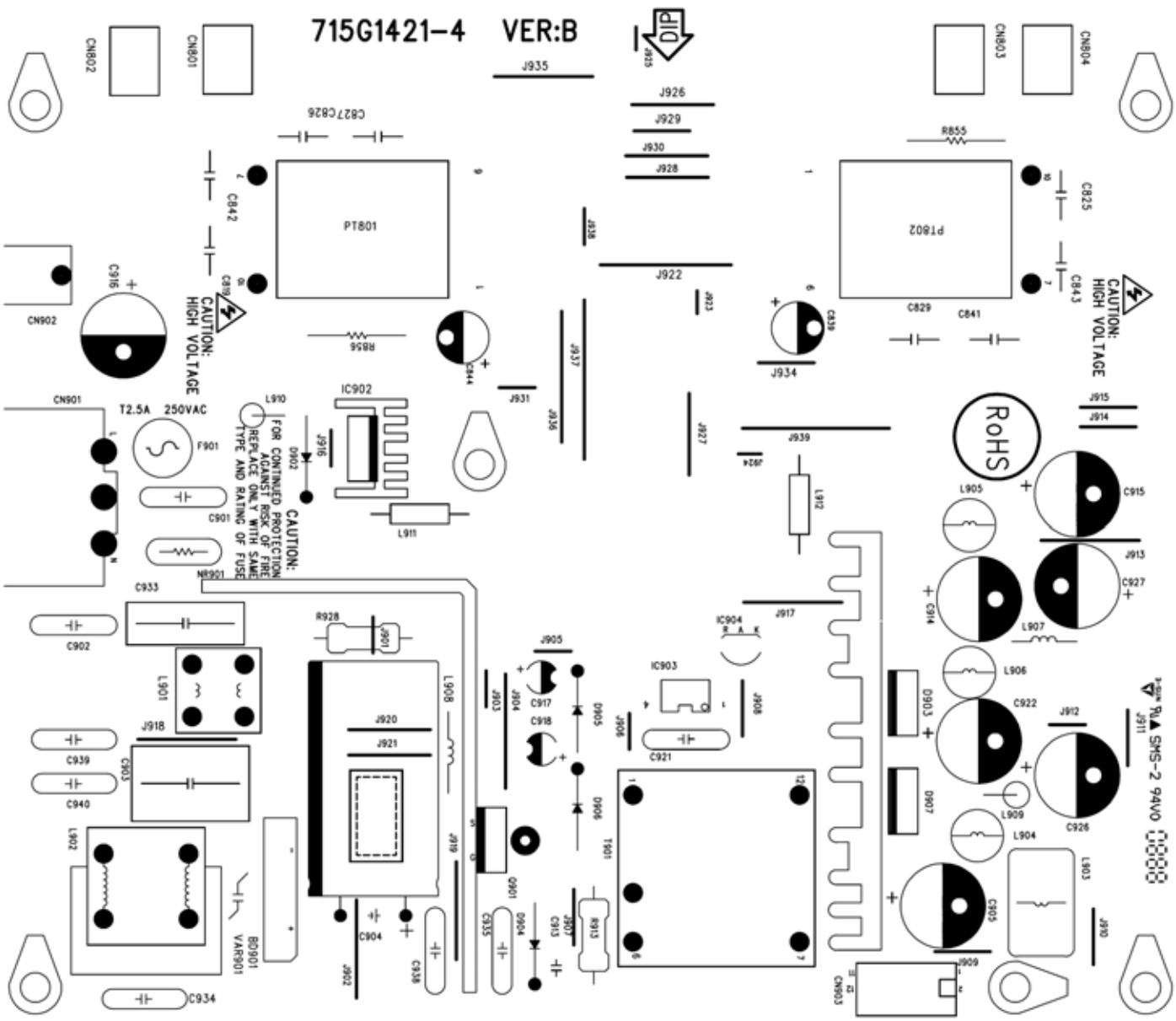
8.1 Main Board

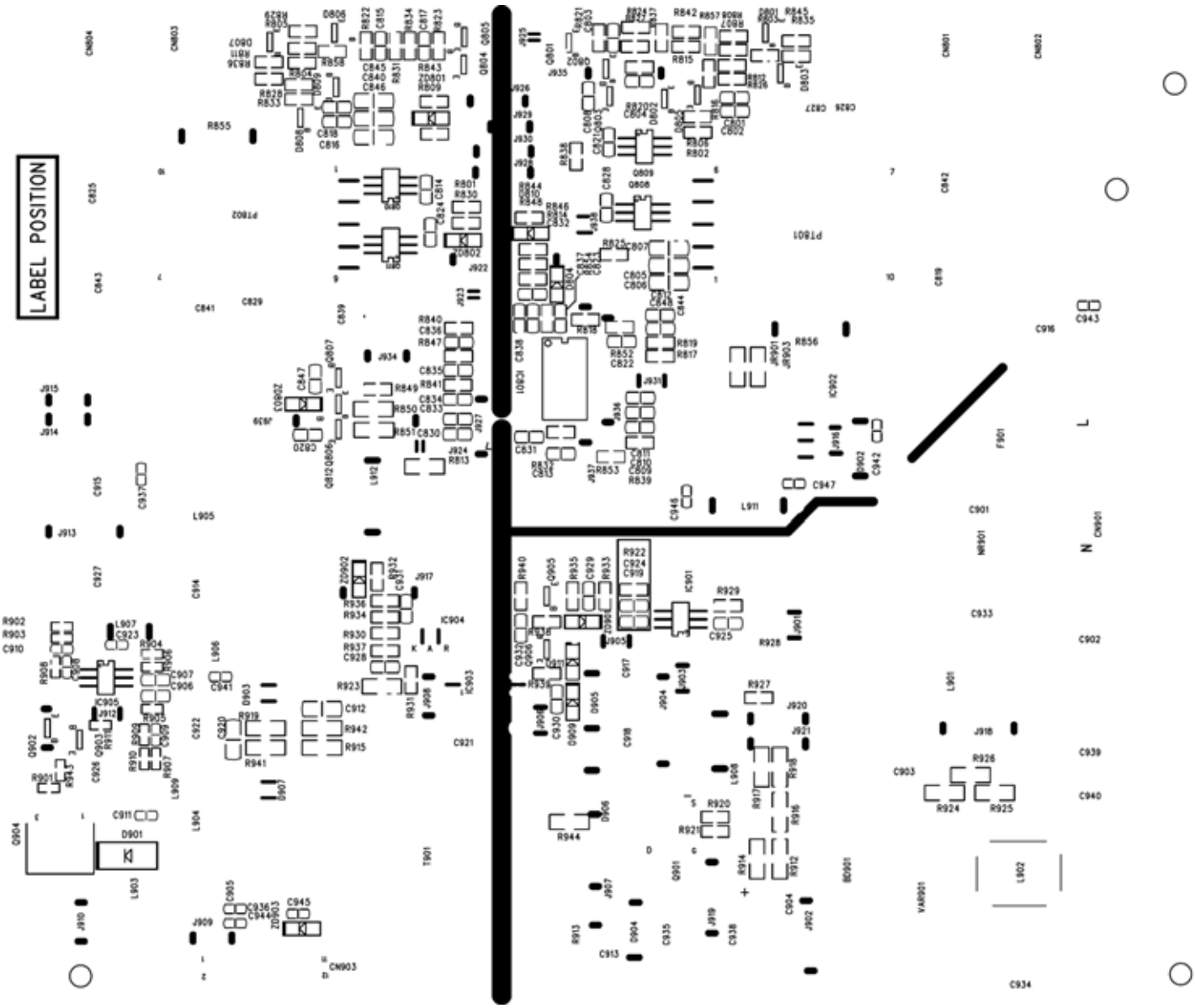


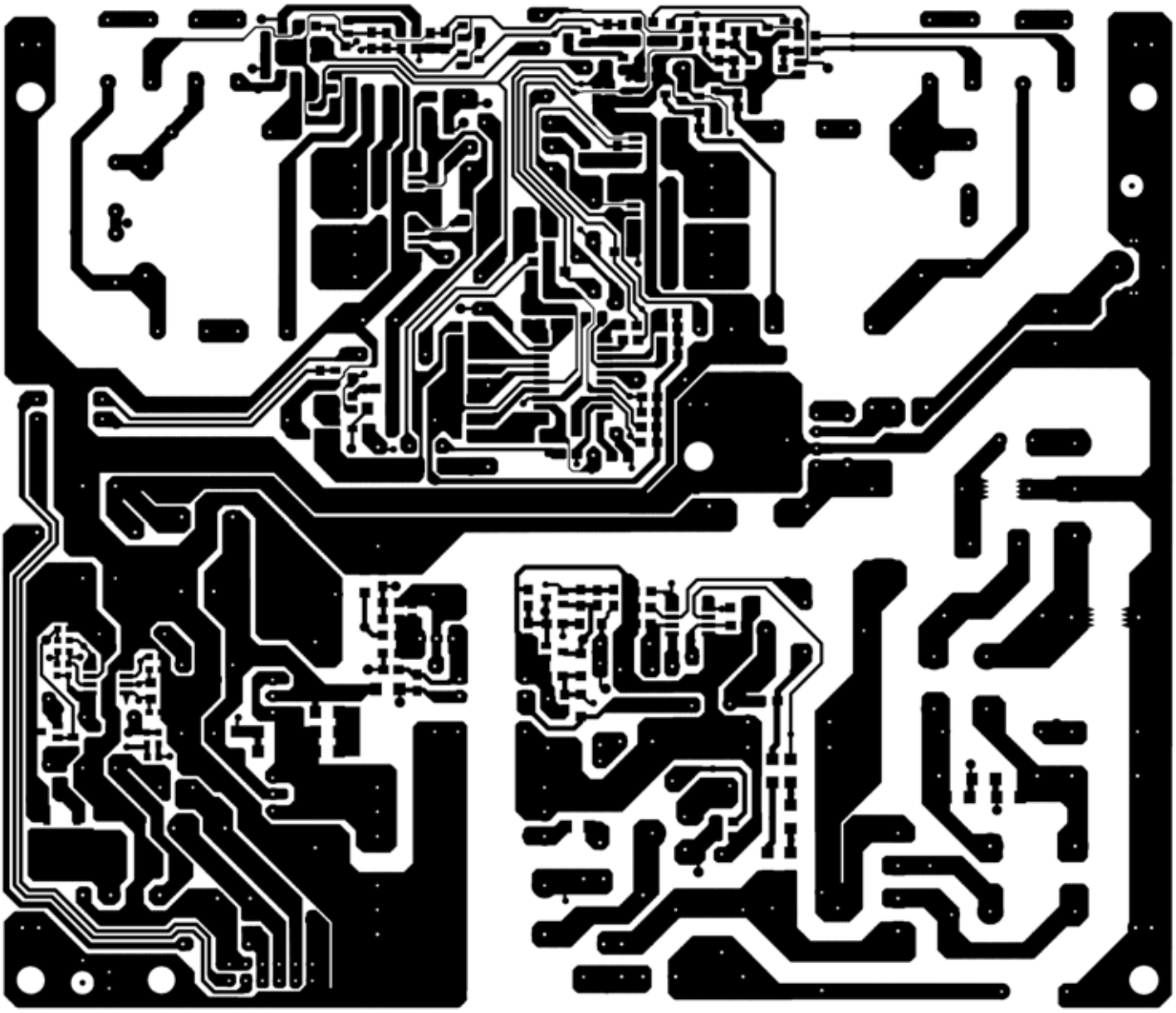




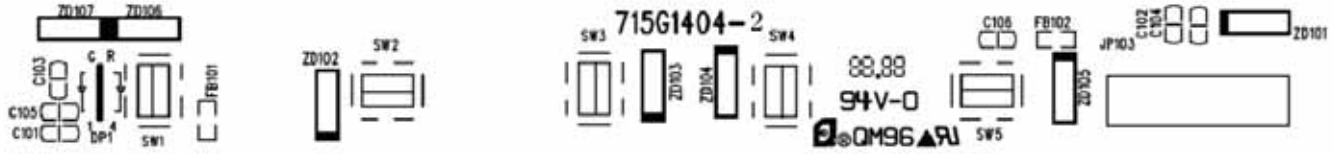
8.2 Power Board




LABEL POSITION



8.3 Key Board



9. Maintainability

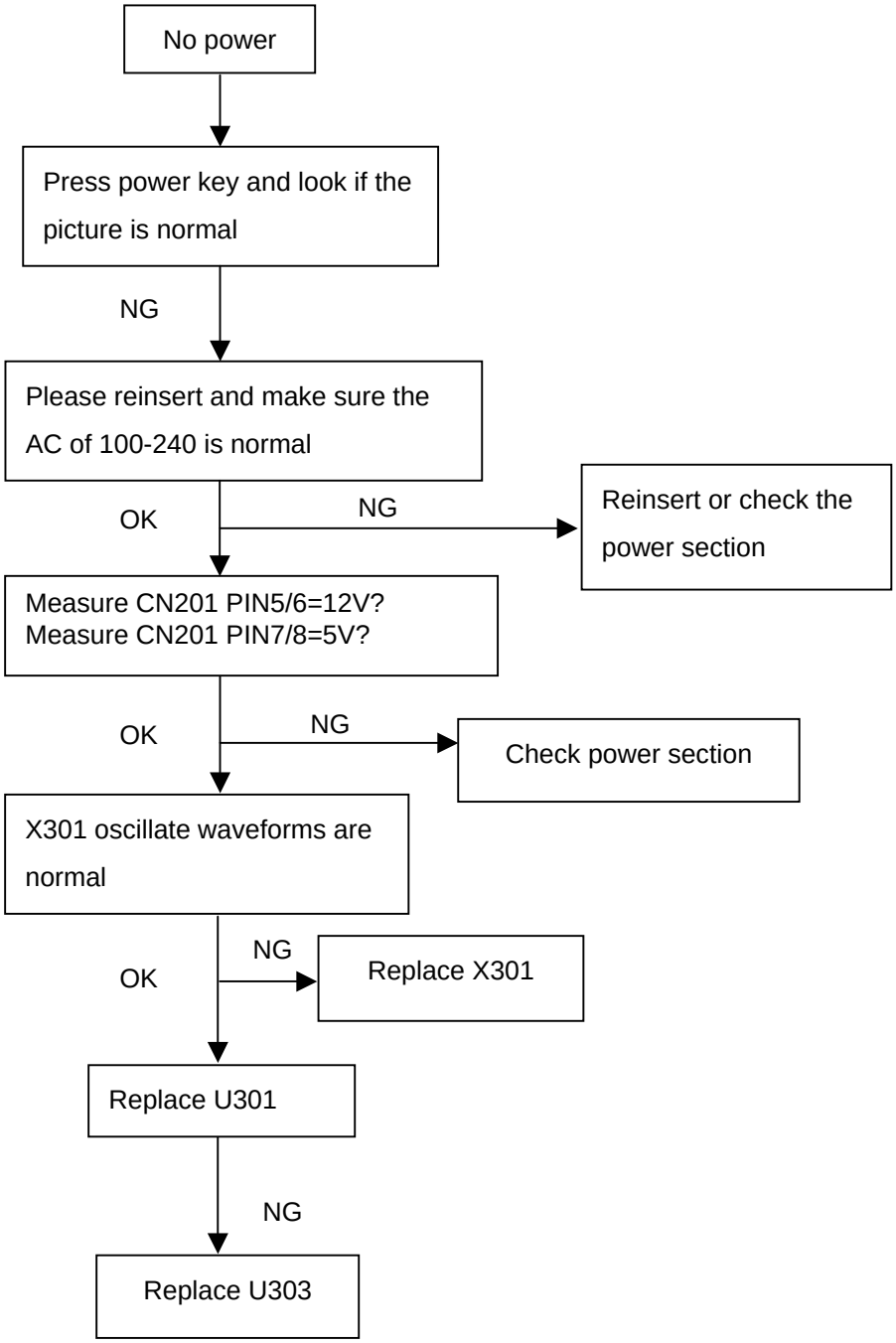
9.1Equipments and Tools Requirement

1. Multi-meter.
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.

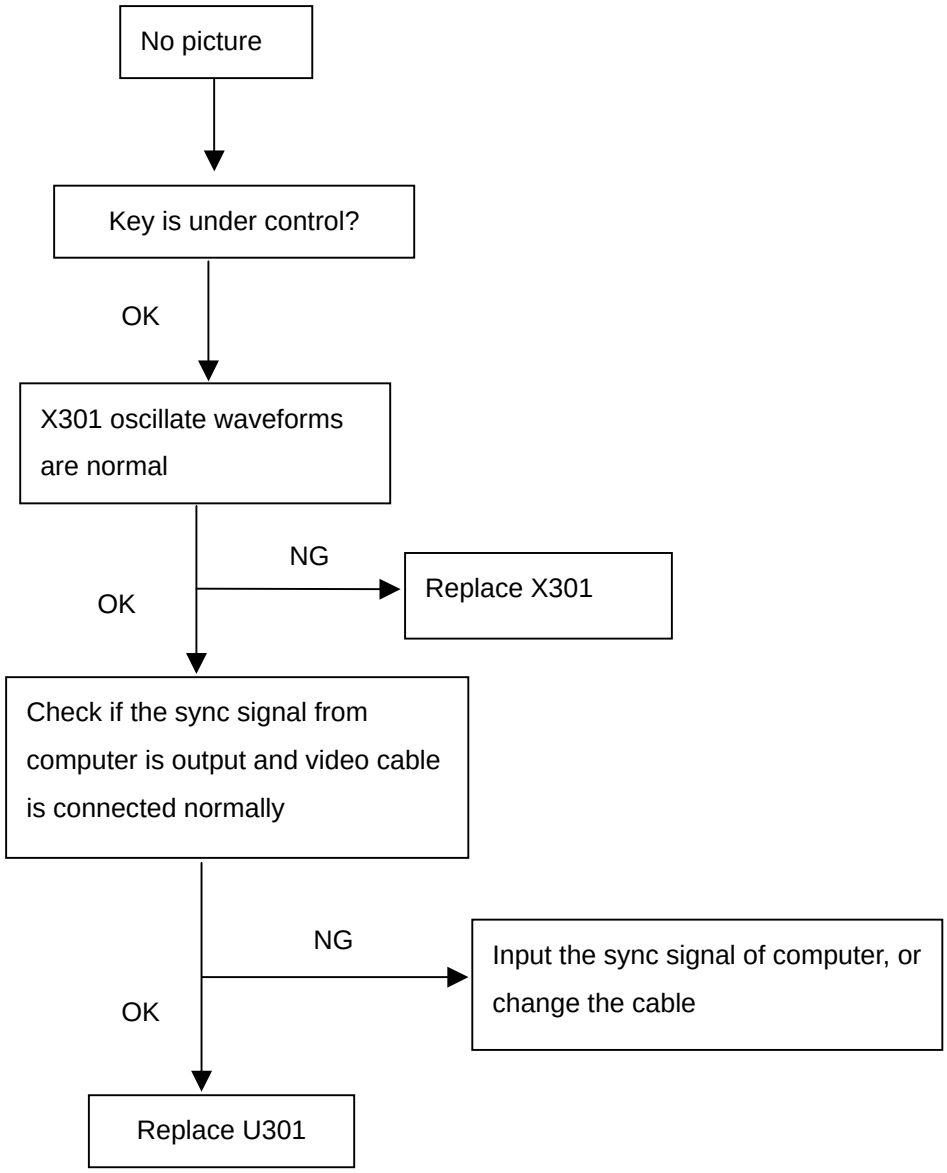
9.2 Trouble Shooting

9.2.1 Main Board

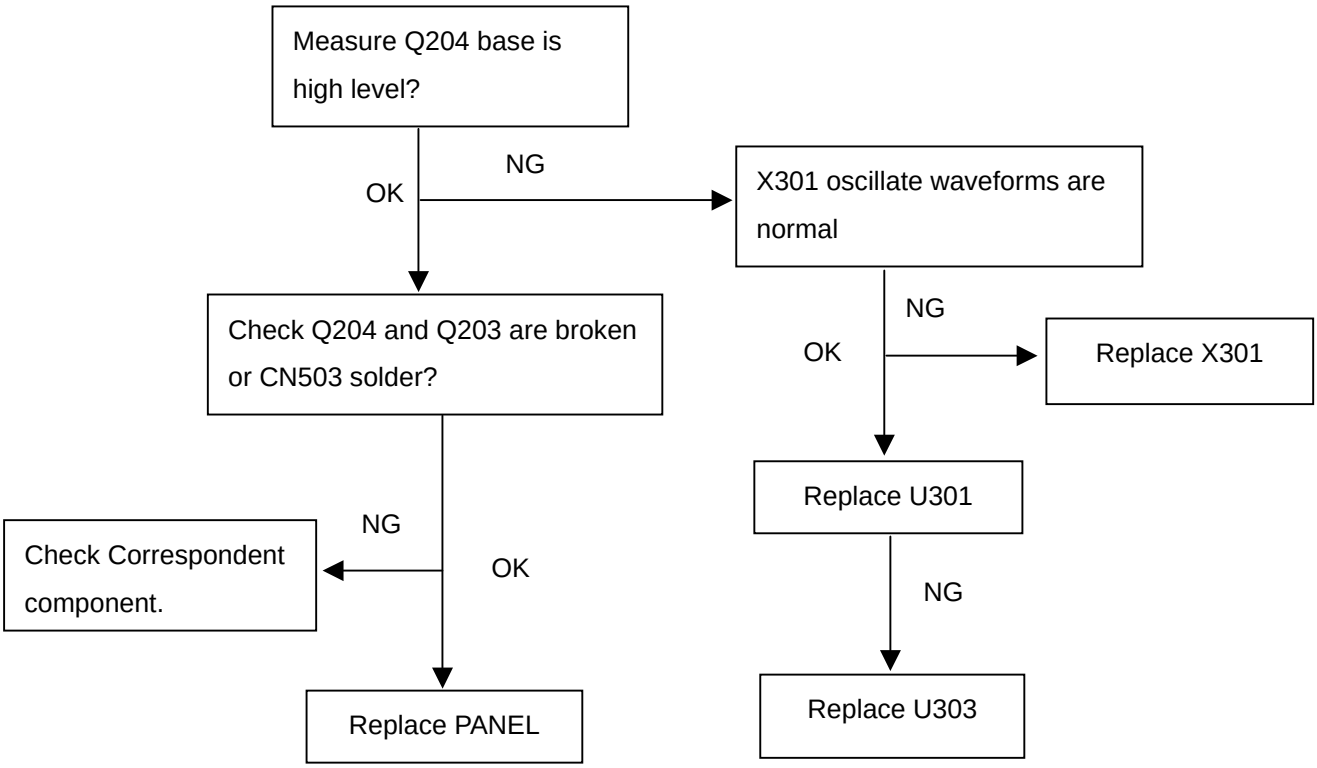
1、No power



No picture (LED is orange)

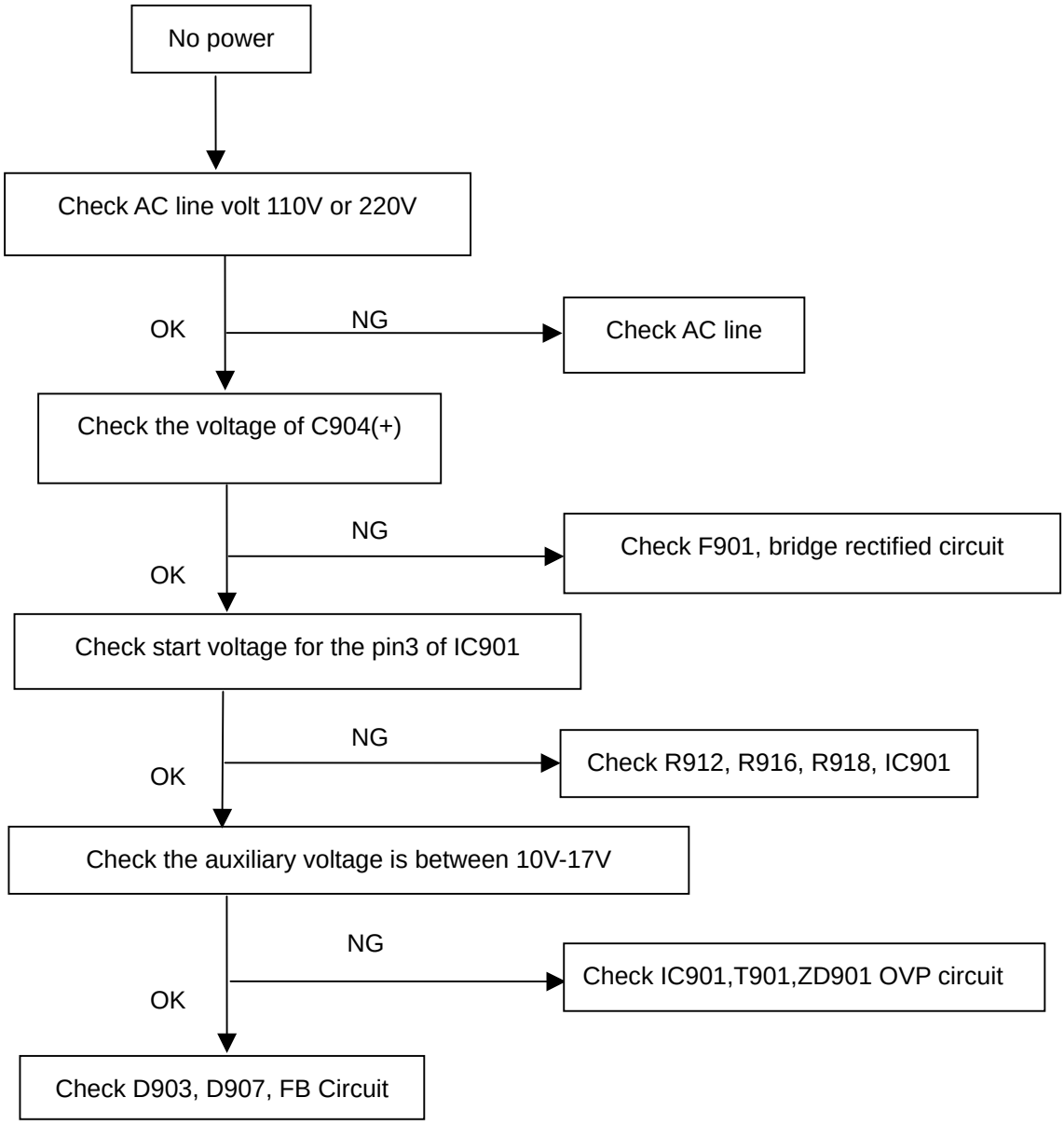


Panel Power Circuit

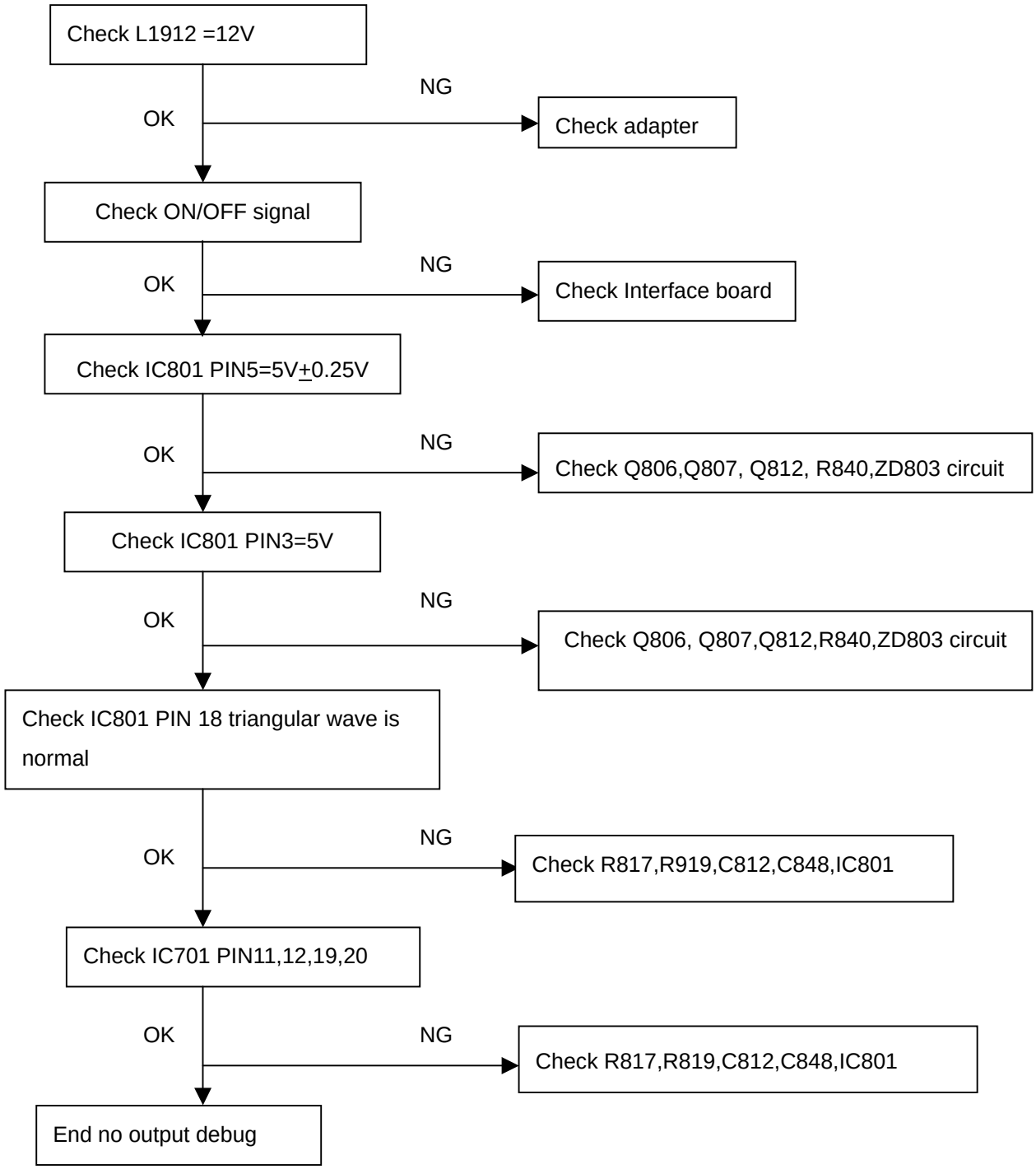


9.2.2 Power Board

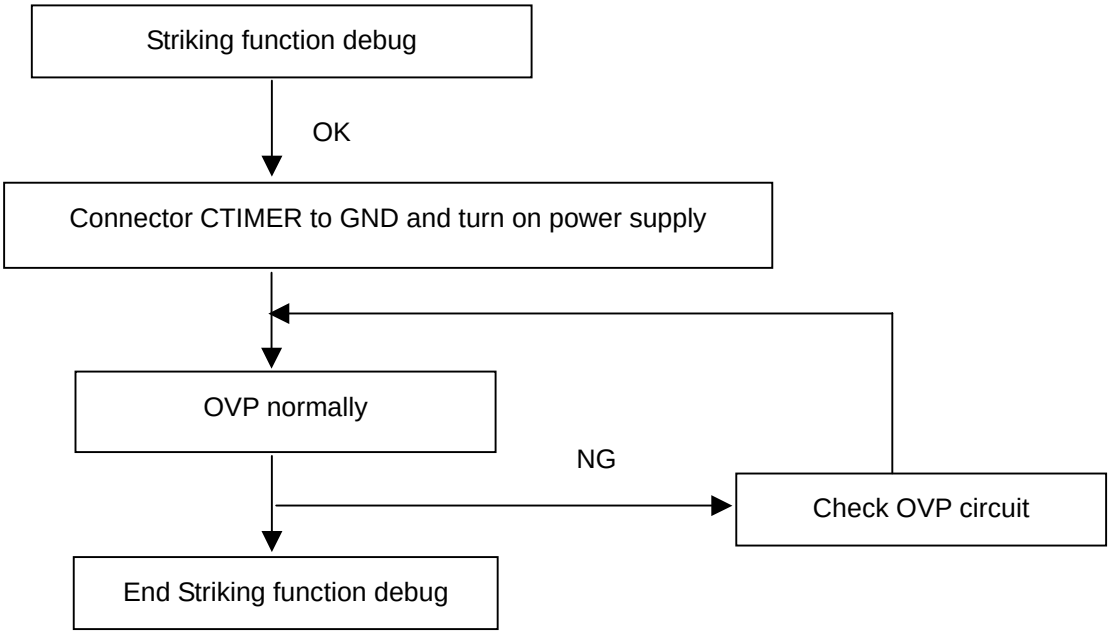
1. No Power



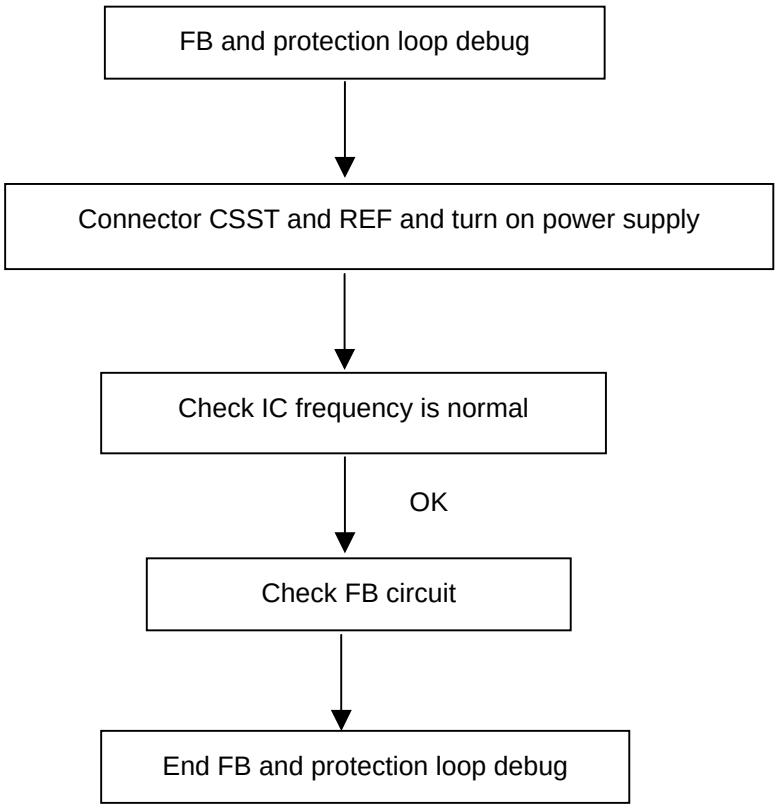
2. W/LED No Backlight



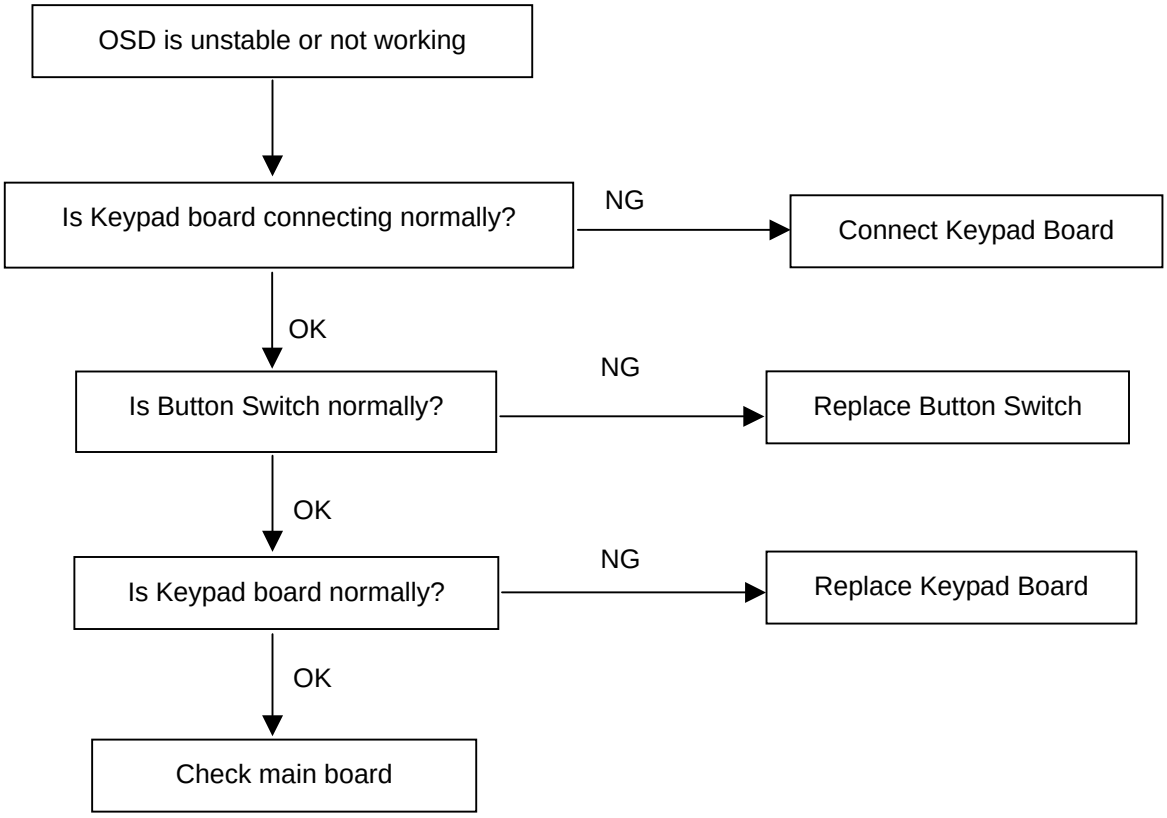
3. Protected 2



4. Protected 2



9.2.3 Key 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. 9300 color:

   9300 color temp. parameter is x = 283 ±20, y = 297 ±20, Y > 180 cd/m^2 ,

   B. sRGB color:

   sRGB color temp. parameter is x = 313±20, y = 329 ±20, Y>200 cd/m^2)

   C. 6500K color:

   Don't adjustment,Custom requires.

3. Into factory mode of HP VS19E

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

4. Bias adjustment:

   Set the **Contrast**  to 80

   Adjust the **Brightness**  to 90.

5. Gain adjustment :

   Move cursor to "-F-" and press MENU key

   A. Adjus 9300k color-temperature

   1. Switch the Chroma-7120 to **9300k channel.**
   2. The chroma 7120 will show x = 283±20, y = 297 ±20, Y>180 cd/m^2
   3. Switch the chroma-720 to **RGB MODE** (with press "MODE" button to change)
   4. Adjust the RED of color **9300K** on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN of color **9300K** on factory window until chroma 7120 indicator reached the value G=100
   6. Adjust the BLUE of color **9300K** 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 sRGB color-temperature

1. Switch the chroma-7120 to sRGB **channel.**
2. The chroma 7120 will show x = 313 ±20, y = 329 ±20, Y >200 cd/m^2
3. Switch the chroma 7120 l to **RGB MODE** (with press “MODE” button to change)
4. Adjust the RED of color sRGB on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN of color sRGB on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE of color sRGB 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. Press reset key and Turn the Power-button “off to on” 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.

Ⅰ. Check white -balance

The white-balance value for each common color temperature:

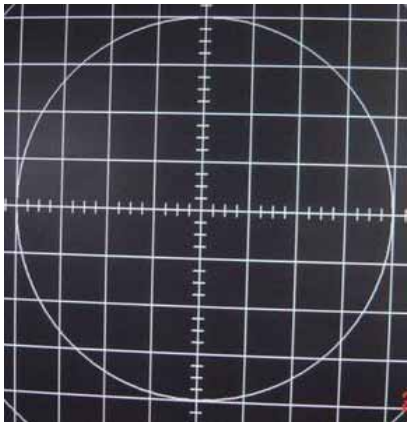
9300K**:** x=283± 20 ; y = 297± 20;

sRGB**:** x = 313± 20 ; y = 329 ± 20;

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. 15 ”LCD is commonly 180±20cd/cm^2（Center）and 17” LCD is required to be larger than 200cd/cm^2 (Center). The exact brightness values are confirmed by the checking-regulations of different customers and different models.

Ⅱ. Steps of white-balance adjustment for LCD:(Take 19” HP LCD for example)

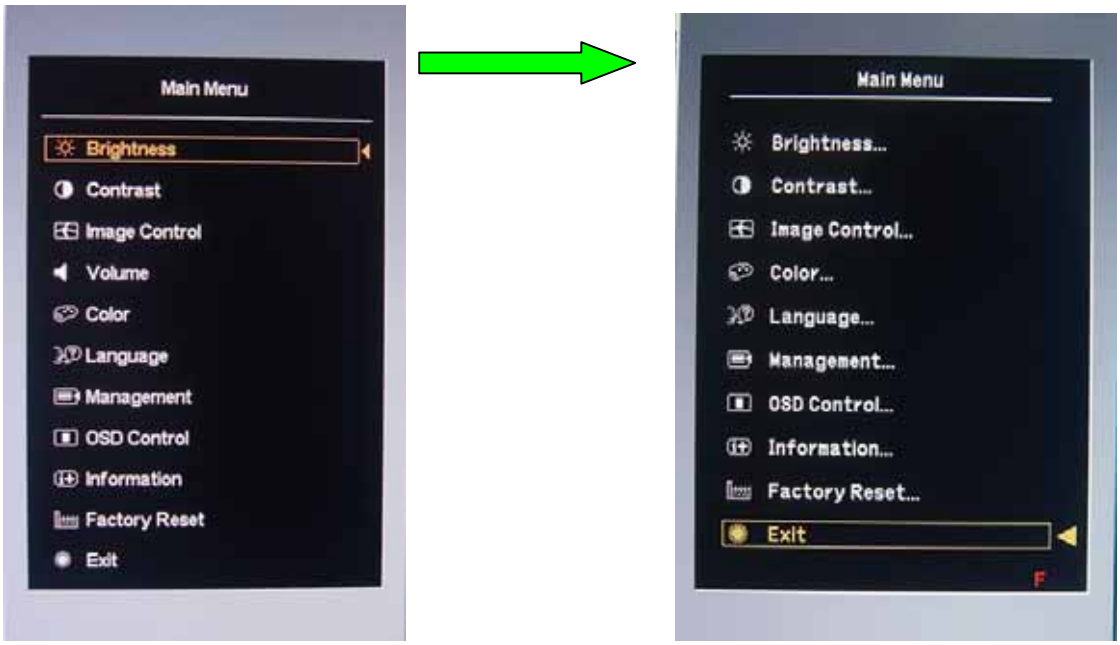
1. Required instruments: Chroma7120、Chroma2325（BGA265A）。
2. First connect the instruments together and turn on the LCD power, then warm up for 30 minutes under full white screen mode. First press the “Reset” key in the menu to recover factory set as following.



a) 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.

b) 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.

c) Cut the power. Then press **Minus (“-“)** key and supply power at the same time to enter into the factory mode. See the following pictures.



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

e) 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.

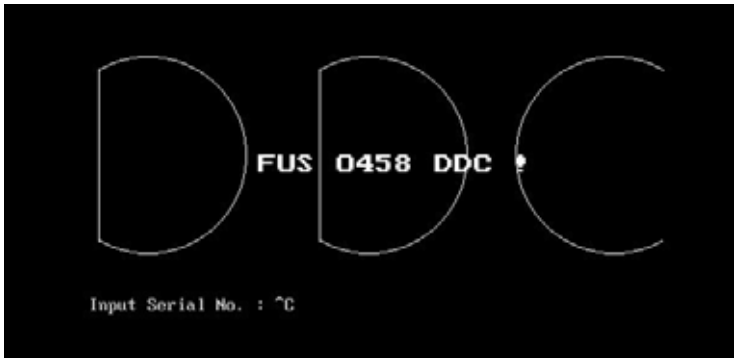
f) Select Exit to the upper menu after completing the adjustment. Then press POWER OFF to exit and save it.

Ⅲ. 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.

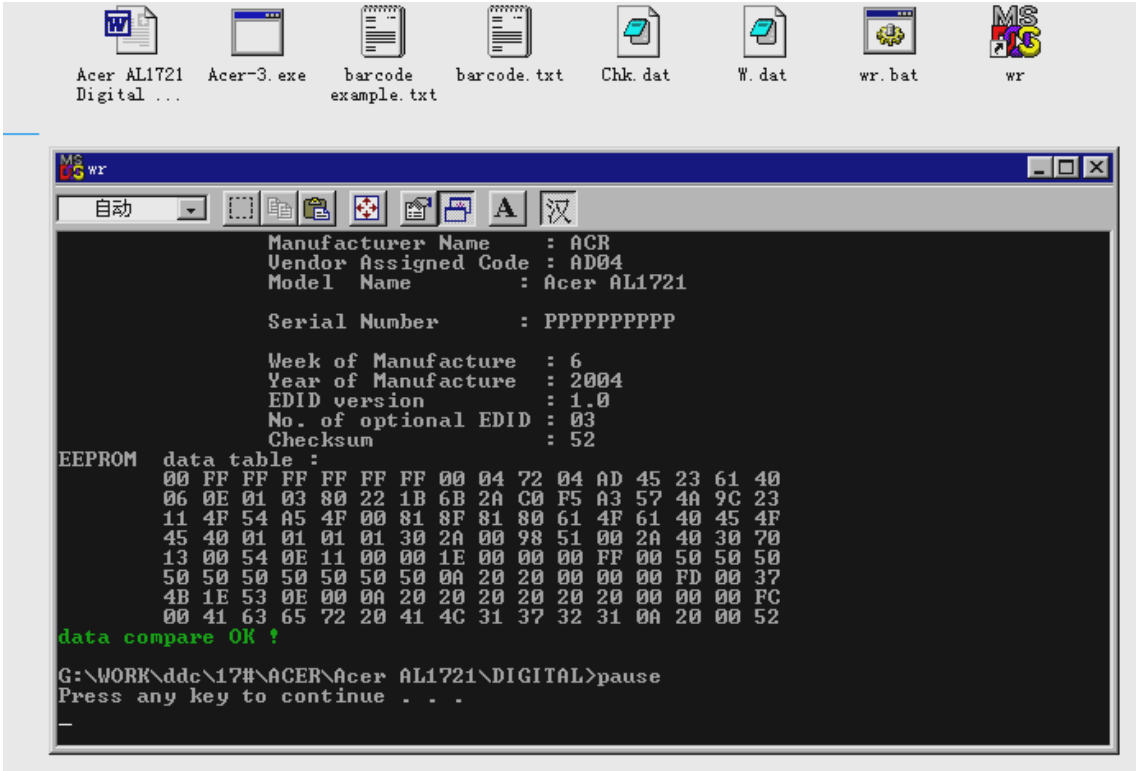


3.Input the serial number of the product (For instance: AOC LM729 is 13 bits), then press ENTER to start writing

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 Content

	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	22	F0	4C	26	01	01	01	01
16 :	36	10	01	03	68	26	1E	8C	EE	B3	8B	9A	52	45	95	1B
32 :	0C	47	4C	AD	EF	80	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	54	0E	11	00	00	1E	00	00	00	FD	00	32	4C	1E
80 :	53	0E	00	0A	20	20	20	20	20	20	00	00	00	FC	00	48
96 :	50	20	76	73	31	39	65	0A	20	20	20	20	00	00	00	FF
112:	00	31	33	32	36	35	34	37	39	38	35	0A	20	20	00	1F

13. BOM List

T980KMDDKHHPAP

Location	Part No.	Description
	015G8126 6	MAIN FRAME
	023G3178690 6A	LOGO
	033G4788 PC L	STAND-CAP
	034G1469EPC B	BEZEL
	040G 152509	RECYCLE LABEL
	040G 152512	RECYCLE LABEL
	044G3918 1	EPS(L)
	044G3918 2	EPS(R)
	044G3918624 1A	CARTON
	045G 88606 H	PE BAG FOR BASE
	045G 88609 C	EPE COVER
	045G 88626 H	PE BAG FOR MONITOR
	052G 1186	SMALL TAPE
	052G 1211 A	165MINIUM TAPE
	052G 1211 B	AL TAPE
	052G6022 1500	SMALL TAPE
	089G 173 56 8	AUDIO CABLE
E089B	089G1738CAA16V	SIGNAL CABLE
	095G8014 16588	WIRE HARNESS
	095G8018 30720	LVDS CABLE
	0M1G 130 6120	SCREW M3X6
	0M1G 340 8 47	SCREW
	0M1G1730 6128	SCREW M3x6
	0M1G1730 6128	SCREW M3x6
	0M1G1740 6128	SCREW
	0Q1G 330 8120	SCREW 3X8mm
	705G980KB34081	19" COVER ASS'Y
	705G980KP34002	19" STAND ASS'Y
E750L	750GLM90E5A21Z000H	CMO 19" C2 ZBD PANEL
	CBPC980KMDHPP	CONVERSION BOARD
	KEPC980KD4P	KEY BOARD
	PWPC1942CMH1P	POWER BOARD
	033G4789 PM 4L	CONTROL BUTTON
	033G4790APM L	POWER BUTTON
	033G4799 1 L	LENS
	034G1470APD 2B 30	REAR COVER
E078	078G 441 2 G	SPEAKER

	0Q1G1030 10128	SCREW
	012G6055 1	BASE RUBBER
	012G6063 1	RUBBER
	015G8117 1	BASE PLATE
	034G1460 PC B	STAND PILLAR
	0Q1G 130 8120	SCREW
	0Q1G 140 8128	SCREW
M037	S37G5133	19" HP LCD HINGE ASS'Y
	T34G1461 PC B	BASE
CN601	033G8027 12	WAFER 2*6P 2.0MM R/A
CN402	033G8027 16	WAFER 16PIN 2.0mm DIP
CN501	033G802724B H	WAFER
	040G 457624 1B	LABEL-CPU
	040G 45762412B	CBPC LABEL
C709	067G215B4713KV	LOWESR 470UF 16V
C718	067G215L101 4R	LOW E.S.R 100UF +/-20% 25V
C620	067G215L221 4N	KY25VB220-M-L8*11.5MM
C610	067G215Y2207RV	RUBYCON 50V 22UF
C501	067G215Y2207RV	RUBYCON 50V 22UF
C601	067G215Y2207RV	RUBYCON 50V 22UF
C720	067G305V221 3	220UF/16V
C725	067G305V221 3	220UF/16V
C602	067G405V470 3P	47UF 16V
C611	067G405V470 3P	47UF 16V
CN701	088G 30214K	PHONE JACK 5PIN
CN202	088G 35315F H	D-SUB 15PIN
X301	093G 22 53	CRYSTAL 14.318MHzHC-49US
	AIC980KMDHPP	MAIN BOARD
	012G6076 1	WASHER
DP1	081G0603 B KB	KP-1608QBC-C-AOC 5MA
DP2	081G0603 Y KB	KP-1608SYCK-5MAV-AOC
JP101	088G 30224U	PHONE JACK
	AIK782KD4SMTP	KEY BOARD FOR SMT
CN801	033G8021 2D U	3.5mm WAFER
CN802	033G8021 2D U	3.5mm WAFER
CN803	033G8021 2D U	3.5mm WAFER
CN804	033G8021 2D U	3.5mm WAFER
	040G 45762420A	LABEL 25x6mm
	052G 1174 2A	3M 69#
IC903	056G 139 3B	PC123 Y82FZ0F

NR901	061G 58050 WT	NTC 5 OHM 5A
R913	061G152M104 64	100KOHM 5% 2W
R928	061G152M398 64	0.39 OHM 2W
C903	063G107K474 US	0.47UF +-10%
C935	065G 1M103 3B6921	10NF +-2% 1000V
C938	065G 1M103 3B6921	10NF +-2% 1000V
C843	065G 3J1206ET	12PF 5% SL 3KV TDK
C842	065G 3J1206ET	12PF 5% SL 3KV TDK
C825	065G 3J1206ET	12PF 5% SL 3KV TDK
C819	065G 3J1206ET	12PF 5% SL 3KV TDK
C826	065G 3J5096ET	5PF 5% SL 3KV
C827	065G 3J5096ET	5PF 5% SL 3KV
C829	065G 3J5096ET	5PF 5% SL 3KV
C841	065G 3J5096ET	5PF 5% SL 3KV
C939	065G306M1022BP	1000PF Y1.CAP
C940	065G306M1022BP	1000PF Y1.CAP
C934	065G306M3322BP	3300PF 20%
C921	065G306M4722BP	4700PF +-20% 400VAC
C839	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C844	067G215L102 3R	LOW E.S.R 1000UF +/-20% 16V
C927	067G215S102 4K	ED1000UF 25V
C926	067G215S102 4K	ED1000UF 25V
C922	067G215S102 4K	ED1000UF 25V
C915	067G215S102 4K	ED1000UF 25V
C914	067G215S102 4K	ED1000UF 25V
C905	067G215S102 4K	ED1000UF 25V
C904	067G215Z15115K	ELCAP 105℃ 150UF M 450V
L909	071G 55 29	FERRITE BEAD
L904	073G 253 91 H	CHOKE COIL
L905	073G 253 91 L	CHOKE BY LI TA
L906	073G 253 91 L	CHOKE BY LI TA
L903	073G 253151 LA	CHOKE COIL
L902	073L 174 40LSG	LINE FILTER
L901	073L 174 53 LG GP	CHOKE
T901	080LL19T 3 TG	TRANSFORMER
BD901	093G 50460 16	U4KB80R
CN903	095G8014 12512	CONNECTOR
	705G 980 57 07	Q901 ASS'Y
	705G 980 87 04	CN901 ASS'Y
	705G 980 93 05	D903/D907 ASS'Y

	PW1942CMH1SMTP	POWER BOARD FOR SMT
	002F0605200	NUT
	004F0612052 00	METAL WASHER
	004F061210M 00	METAL WASHERS12.0*6.03*4.70H
	004F061210T 00	METAL WASHERS12.0*8.00*1.6H
	004F061210T 01	METAL WASHERS12.0*4.72*1.0T
	004F0612151 00	WASHER
	015F 513010	BRACKET
	015F 513030	BRACKET
	015F 513320	BRACKET
	028F0620090	SHAFT
	0M1F 130 6120	SCREW
U301	056G 562101	GM2621-LF-BC
U601	056G 563 7	AIC1084-33PM
U602	056G 563 27	AIC1117-18PY
U702	056G 616 19	TPA6112A2 MSOP-10
U701	056G 616 20	TPA2008D2 PWP-24
U304	056G1133 24	AT24C16AN-10SU-2.7
U202	056G1133 34	M24C02-WMN6TP
U303	056G1133 59	SST25VF010-20-4C-SAE S01C-8
Q603	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q701	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q601	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q404	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q403	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q302	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q201	057G 759 2	RK7002
Q602	057G 763 1	A03401 SOT23 BY AOS(A1)
R606	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R336	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB203	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB202	061L0603000	RST SM 0603 JUMP MAX 0R05 R
FB201	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R301	061L0603100	CHIP 10 OHM 1/10W
R417	061L0603100 2F	10K 1% 1/10W
R416	061L0603100 2F	10K 1% 1/10W
R720	061L0603100 2F	10K 1% 1/10W
R713	061L0603100 2F	10K 1% 1/10W
R711	061L0603100 2F	10K 1% 1/10W
R704	061L0603100 2F	10K 1% 1/10W

R312	061L0603101	CHIPR 100 OHM +-5% 1/16W
R313	061L0603101	CHIPR 100 OHM +-5% 1/16W
R407	061L0603101	CHIPR 100 OHM +-5% 1/16W
R408	061L0603101	CHIPR 100 OHM +-5% 1/16W
R705	061L0603101	CHIPR 100 OHM +-5% 1/16W
R707	061L0603101	CHIPR 100 OHM +-5% 1/16W
R709	061L0603101	CHIPR 100 OHM +-5% 1/16W
R712	061L0603101	CHIPR 100 OHM +-5% 1/16W
R714	061L0603101	CHIPR 100 OHM +-5% 1/16W
R716	061L0603101	CHIPR 100 OHM +-5% 1/16W
R717	061L0603101	CHIPR 100 OHM +-5% 1/16W
R718	061L0603101	CHIPR 100 OHM +-5% 1/16W
R222	061L0603101	CHIPR 100 OHM +-5% 1/16W
R224	061L0603101	CHIPR 100 OHM +-5% 1/16W
R228	061L0603101	CHIPR 100 OHM +-5% 1/16W
R230	061L0603101	CHIPR 100 OHM +-5% 1/16W
R232	061L0603101	CHIPR 100 OHM +-5% 1/16W
R242	061L0603101	CHIPR 100 OHM +-5% 1/16W
R243	061L0603101	CHIPR 100 OHM +-5% 1/16W
R309	061L0603101	CHIPR 100 OHM +-5% 1/16W
R310	061L0603101	CHIPR 100 OHM +-5% 1/16W
R311	061L0603101	CHIPR 100 OHM +-5% 1/16W
R727	061L0603102	CHIPR 1K OHM +-5% 1/16W
R726	061L0603102	CHIPR 1K OHM +-5% 1/16W
R725	061L0603102	CHIPR 1K OHM +-5% 1/16W
R604	061L0603102	CHIPR 1K OHM +-5% 1/16W
R602	061L0603102	CHIPR 1K OHM +-5% 1/16W
R728	061L0603102	CHIPR 1K OHM +-5% 1/16W
R734	061L0603102	CHIPR 1K OHM +-5% 1/16W
R701	061L0603103	CHIPR 10K OHM +-5% 1/16W
R609	061L0603103	CHIPR 10K OHM +-5% 1/16W
R702	061L0603103	CHIPR 10K OHM +-5% 1/16W
R710	061L0603103	CHIPR 10K OHM +-5% 1/16W
R605	061L0603103	CHIPR 10K OHM +-5% 1/16W
R327	061L0603103	CHIPR 10K OHM +-5% 1/16W
R221	061L0603103	CHIPR 10K OHM +-5% 1/16W
R608	061L0603104	RST SM 0603 RC0603 100K PM5 R
R333	061L0603123	CHIP 12K OHM 1/16W
R703	061L0603124	CHIP 120KOHM 1/10W
R733	061L0603150 3F	150K 1/10W 1%

R706	061L0603200 2F	CHIPR 20KOHM +-1% 1/10W
R708	061L0603200 2F	CHIPR 20KOHM +-1% 1/10W
R715	061L0603200 2F	CHIPR 20KOHM +-1% 1/10W
R719	061L0603200 2F	CHIPR 20KOHM +-1% 1/10W
R420	061L0603220 2F	CHIPR 22K OHM +-1%
R421	061L0603220 2F	CHIPR 22K OHM +-1%
R238	061L0603221	CHIPR 220 OHM+-5% 1/16W
R239	061L0603221	CHIPR 220 OHM+-5% 1/16W
R237	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R240	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R241	061L0603222	CHIPR 2.2K OHM+-5% 1/16W
R422	061L0603300 2F	CHIP 30K OHM 1/16W 1%
R419	061L0603300 2F	CHIP 30K OHM 1/16W 1%
R423	061L0603470 2F	CHIP 47K OHM 1/10W 1%
R601	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R338	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R337	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R335	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R325	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R324	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R323	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R318	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R317	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R316	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R226	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R227	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R236	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R306	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R307	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R308	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R315	061L0603472	CHIPR 4.7K OHM +-5% 1/16W
R328	061L0603473	RST SM 0603 RC0603 47K PM5 R
R409	061L0603473	RST SM 0603 RC0603 47K PM5 R
R410	061L0603473	RST SM 0603 RC0603 47K PM5 R
R735	061L0603473	RST SM 0603 RC0603 47K PM5 R
R329	061L0603622	CHI 6.2KOHM 1/10W
R229	061L0603750	CHIPR 75 OHM+-5% 1/16W
R223	061L0603750	CHIPR 75 OHM+-5% 1/16W
R220	061L0603750	CHIPR 75 OHM+-5% 1/16W
R233	061L0603750 9F	75OHM 1% 1/10W

R234	061L0603750 9F	75OHM 1% 1/10W
R235	061L0603750 9F	75OHM 1% 1/10W
R732	061L0603823	CHIPR 82KOHM +-5% 1/16W
R731	061L0603823	CHIPR 82KOHM +-5% 1/16W
R729	061L0805000	CHIPR 0OHM +-5% 1/10W
R730	061L0805000	CHIPR 0OHM +-5% 1/10W
R501	061L1206331	CHIP 330OHM 5% 1/4W
C712	065G0603102 32	1000PF +-10% 50V X7R
C711	065G0603102 32	1000PF +-10% 50V X7R
C708	065G0603102 32	1000PF +-10% 50V X7R
C706	065G0603102 32	1000PF +-10% 50V X7R
C410	065G0603102 32	1000PF +-10% 50V X7R
C409	065G0603102 32	1000PF +-10% 50V X7R
C407	065G0603102 32	1000PF +-10% 50V X7R
C406	065G0603102 32	1000PF +-10% 50V X7R
C405	065G0603102 32	1000PF +-10% 50V X7R
C404	065G0603102 32	1000PF +-10% 50V X7R
C607	065G0603104 32	CHIP 0.1UF 50V X7R
C604	065G0603104 32	CHIP 0.1UF 50V X7R
C603	065G0603104 32	CHIP 0.1UF 50V X7R
C502	065G0603104 32	CHIP 0.1UF 50V X7R
C412	065G0603104 32	CHIP 0.1UF 50V X7R
C411	065G0603104 32	CHIP 0.1UF 50V X7R
C408	065G0603104 32	CHIP 0.1UF 50V X7R
C332	065G0603104 32	CHIP 0.1UF 50V X7R
C326	065G0603104 32	CHIP 0.1UF 50V X7R
C324	065G0603104 32	CHIP 0.1UF 50V X7R
C608	065G0603104 32	CHIP 0.1UF 50V X7R
C612	065G0603104 32	CHIP 0.1UF 50V X7R
C613	065G0603104 32	CHIP 0.1UF 50V X7R
C614	065G0603104 32	CHIP 0.1UF 50V X7R
C616	065G0603104 32	CHIP 0.1UF 50V X7R
C619	065G0603104 32	CHIP 0.1UF 50V X7R
C701	065G0603104 32	CHIP 0.1UF 50V X7R
C702	065G0603104 32	CHIP 0.1UF 50V X7R
C703	065G0603104 32	CHIP 0.1UF 50V X7R
C704	065G0603104 32	CHIP 0.1UF 50V X7R
C732	065G0603104 32	CHIP 0.1UF 50V X7R
C214	065G0603104 32	CHIP 0.1UF 50V X7R
C219	065G0603104 32	CHIP 0.1UF 50V X7R

C220	065G0603104 32	CHIP 0.1UF 50V X7R
C221	065G0603104 32	CHIP 0.1UF 50V X7R
C302	065G0603104 32	CHIP 0.1UF 50V X7R
C303	065G0603104 32	CHIP 0.1UF 50V X7R
C304	065G0603104 32	CHIP 0.1UF 50V X7R
C305	065G0603104 32	CHIP 0.1UF 50V X7R
C306	065G0603104 32	CHIP 0.1UF 50V X7R
C307	065G0603104 32	CHIP 0.1UF 50V X7R
C323	065G0603104 32	CHIP 0.1UF 50V X7R
C322	065G0603104 32	CHIP 0.1UF 50V X7R
C321	065G0603104 32	CHIP 0.1UF 50V X7R
C320	065G0603104 32	CHIP 0.1UF 50V X7R
C318	065G0603104 32	CHIP 0.1UF 50V X7R
C317	065G0603104 32	CHIP 0.1UF 50V X7R
C311	065G0603104 32	CHIP 0.1UF 50V X7R
C310	065G0603104 32	CHIP 0.1UF 50V X7R
C308	065G0603104 32	CHIP 0.1UF 50V X7R
C724	065G0603105 12	CHIP 1UF 16VX7R 0603
C722	065G0603105 12	CHIP 1UF 16VX7R 0603
C719	065G0603105 12	CHIP 1UF 16VX7R 0603
C717	065G0603105 12	CHIP 1UF 16VX7R 0603
C715	065G0603105 12	CHIP 1UF 16VX7R 0603
C714	065G0603105 12	CHIP 1UF 16VX7R 0603
C710	065G0603105 12	CHIP 1UF 16VX7R 0603
C707	065G0603105 12	CHIP 1UF 16VX7R 0603
C705	065G0603105 12	CHIP 1UF 16VX7R 0603
C726	065G0603105 12	CHIP 1UF 16VX7R 0603
C731	065G0603105 12	CHIP 1UF 16VX7R 0603
C729	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R
C728	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R
C713	065G0603221 31	CER1 0603 NP0 50V 220P PM5 R
C331	065G0603224 32	CHIP 0.22UF 50V X7R
C327	065G0603330 31	CER1 0603 NP0 50V 33P PM5 R
C328	065G0603470 31	CHIP 47PF 50V NPO
C727	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C723	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C721	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C716	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C216	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C215	065G0603473 32 GP	CHIP 0.047UF 50V X7R

C213	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C212	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C211	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C210	065G0603473 32 GP	CHIP 0.047UF 50V X7R
C730	065G0805225 17	CHIP 2.2UF 16V Y5V
C615	067G215Y2207RV	RUBYCON 50V 22UF
L704	071G 56G301 EA	BEAD 300 欧
L703	071G 56G301 EA	BEAD 300 欧
L702	071G 56G301 EA	BEAD 300 欧
L701	071G 56G301 EA	BEAD 300 欧
L709	071G 56K121	CHIP BEAD
L708	071G 56K121	CHIP BEAD
L707	071G 56K121	CHIP BEAD
L706	071G 56K121	CHIP BEAD
L705	071G 56K121	CHIP BEAD
L602	071G 56K121	CHIP BEAD
L604	071G 56K121	CHIP BEAD
L603	071G 56K121	CHIP BEAD
L601	071G 56K121	CHIP BEAD
L301	071G 56K121	CHIP BEAD
L302	071G 56K121	CHIP BEAD
L303	071G 56K121	CHIP BEAD
L304	071G 56K121	CHIP BEAD
L305	071G 56K121	CHIP BEAD
L306	071G 56K121	CHIP BEAD
R603	071G 59B121	TB160808B
L407	071G 59G301	CHIP BEAD 300OHM
L406	071G 59G301	CHIP BEAD 300OHM
L405	071G 59G301	CHIP BEAD 300OHM
L404	071G 59G301	CHIP BEAD 300OHM
L403	071G 59G301	CHIP BEAD 300OHM
L402	071G 59G301	CHIP BEAD 300OHM
L401	071G 59G301	CHIP BEAD 300OHM
D211	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D212	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D213	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D210	093G 64 42 P	BAV70 SOT-23
ZDD404	093G 39S 34 T	UDZS5.6B
ZDD403	093G 39S 34 T	UDZS5.6B
ZDD402	093G 39S 34 T	UDZS5.6B

ZDD401	093G 39S 34 T	UDZS5.6B
ZD211	093G 39S 34 T	UDZS5.6B
ZD210	093G 39S 34 T	UDZS5.6B
ZD209	093G 39S 34 T	UDZS5.6B
ZD208	093G 39S 34 T	UDZS5.6B
ZD207	093G 39S 34 T	UDZS5.6B
D601	093G2040 3F	FA20-04
D602	093G2040 3F	FA20-04
	715G1834 1	MAIN BOARD PCB
JP102	033G8032 4C	WAFER
JP103	033G803415D	WAFER
C104	065G0603121 31	CHIP 120PF 50V NPO
C103	065G0603121 31	CHIP 120PF 50V NPO
C102	065G0603121 31	CHIP 120PF 50V NPO
C101	065G0603121 31	CHIP 120PF 50V NPO
C105	065G0603471 31	CAP:CER 470PF 5%50V SMT 0603
C106	065G0603471 31	CAP:CER 470PF 5%50V SMT 0603
FB101	071G 59G301	CHIP BEAD 300OHM
FB102	071G 59G301	CHIP BEAD 300OHM
SW5	077G 607 1 FD	TACT SWITCH
SW4	077G 607 1 FD	TACT SWITCH
SW3	077G 607 1 FD	TACT SWITCH
SW2	077G 607 1 FD	TACT SWITCH
SW1	077G 607 1 FD	TACT SWITCH
DP1	081G0603 B KB	KP-1608QBC-C-AOC 5MA
DP2	081G0603 Y KB	KP-1608SYCK-5MAV-AOC
ZD107	093G 39S 34 T	UDZS5.6B
ZD106	093G 39S 34 T	UDZS5.6B
ZD105	093G 39S 34 T	UDZS5.6B
ZD104	093G 39S 34 T	UDZS5.6B
ZD103	093G 39S 34 T	UDZS5.6B
ZD102	093G 39S 34 T	UDZS5.6B
ZD101	093G 39S 34 T	UDZS5.6B
	715G1404 2	KEPC PCB
Q901	057G 600 35	STP8NK80ZFP
	090G 412 1	HEAT SINK
	0M1G1730 8128	SCREW M3x8
CN901	087G 501 12 CJ	AC SOCKET
	095G205S354083	HARNESS
	096G 29 6	SHRINK TUBE UL/CSA

	090G6081 2 GP	HEAT SINK
D903	093G 60245	SP10150
D907	093G 60245	SP10150
	0M1G1730 8128	SCREW M3x8
IC901	056G 379 33 1	IC SG6841SZ3 SOP-8 SYSTEM GENERAL
IC905	056G 379 37	FP5001DR
IC801	056G 608 7	OZT1060GN SOIC-20
Q812	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q902	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q906	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q905	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q903	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q808	057G 60040A	AM4512C-T1-PF SO-8
Q809	057G 60040A	AM4512C-T1-PF SO-8
Q810	057G 60040A	AM4512C-T1-PF SO-8
Q811	057G 60040A	AM4512C-T1-PF SO-8
Q804	057G 759 2	RK7002
Q805	057G 759 2	RK7002
Q803	057G 759 2	RK7002
Q802	057G 759 2	RK7002
Q801	057G 759 2	RK7002
Q806	057G 760 4A	DTA144WN3/S SOT-23
Q807	057G 760 5A	DTC 144WN3/S SOT-23
Q904	057G 763 7	A0D405L
R905	061L0603000	RST SM 0603 JUMP MAX 0R05 R
R901	061L0603103	CHIPR 10K OHM +-5% 1/16W
R943	061L0603220	CHIPR 22 OHM+-5% 1/16W
R907	061L0603272	RST SM 0603 RC22H 2K7 PM1 R
R908	061L0603302	CHIPR 3K OHM +-5% 1/10W
R904	061L0603333	CHIP 33K OHM 1/16W
R911	061L0603362	CHIP 3.6K OHM 1/10W
R902	061L0603392	CHIP 3.9K OHM 1/16W
R903	061L0603471	CHIPR 470 OHM+-5% 1/16W
R906	061L0603473	RST SM 0603 RC0603 47K PM5 R
R910	061L0603752	CHIPR 7.5K 1/10W
R909	061L0603820 1F	RES 8K2 1/10W 1% SMT 0603
R838	061L0805000	CHIPR 0OHM +-5% 1/10W
R843	061L0805000	CHIPR 0OHM +-5% 1/10W
R837	061L0805000	CHIPR 0OHM +-5% 1/10W
R830	061L0805000	CHIPR 0OHM +-5% 1/10W

R825	061L0805000	CHIPR 0OHM +-5% 1/10W
R920	061L0805100	CHIPR 10 OHM+-5% 1/10W
R932	061L0805100 2F	CHIP 10K OHM 1/8W 1%
R922	061L0805100 2F	CHIP 10K OHM 1/8W 1%
R921	061L0805100 2F	CHIP 10K OHM 1/8W 1%
R938	061L0805101	CHIPR 100 OHM +-5% 1/10W
R931	061L0805102	CHIPR 1K OHM +-5% 1/10W
R934	061L0805102	CHIPR 1K OHM +-5% 1/10W
R930	061L0805102	CHIPR 1K OHM +-5% 1/10W
R849	061L0805102	CHIPR 1K OHM +-5% 1/10W
R845	061L0805102	CHIPR 1K OHM +-5% 1/10W
R842	061L0805102	CHIPR 1K OHM +-5% 1/10W
R836	061L0805102	CHIPR 1K OHM +-5% 1/10W
R835	061L0805102	CHIPR 1K OHM +-5% 1/10W
R829	061L0805102	CHIPR 1K OHM +-5% 1/10W
R812	061L0805102	CHIPR 1K OHM +-5% 1/10W
R801	061L0805103	CHIPR 10K OHM +-5% 1/10W
R809	061L0805103	CHIPR 10K OHM +-5% 1/10W
R840	061L0805103	CHIPR 10K OHM +-5% 1/10W
R939	061L0805104	CHIPR 100K OHM+-5% 1/10W
R822	061L0805105	CHIP 1M OHM 5% 1/8W
R823	061L0805105	CHIP 1M OHM 5% 1/8W
R854	061L0805105	CHIP 1M OHM 5% 1/8W
R844	061L0805105	CHIP 1M OHM 5% 1/8W
R821	061L0805105	CHIP 1M OHM 5% 1/8W
R820	061L0805105	CHIP 1M OHM 5% 1/8W
R853	061L0805220	CHIP 22 OHM 5% 0805 1/8W
R852	061L0805220	CHIP 22 OHM 5% 0805 1/8W
R927	061L0805221	CHIPR 220 OHM +-5% 1/8W
R937	061L0805222	CHIP 2.2KOHM 5% 0805 1/8W
R936	061L0805240 1F	CHIPR 2.4KOHM +-1% 1/8W
R929	061L0805240 2F	CHIP 24KOHM 1% 1/8W
R819	061L0805273	CHIP 27KOHM 5% 0805 1/8W
C830	061L0805393	SMD 39KOHM/0805/+-5% 1/8W
R857	061L0805471	CHIPR 470 OHM+-5% 1/10W
R858	061L0805471	CHIPR 470 OHM+-5% 1/10W
R811	061L0805471	CHIPR 470 OHM+-5% 1/10W
R803	061L0805471	CHIPR 470 OHM+-5% 1/10W
R940	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R935	061L0805472	CHIRP 4.7K OHM +-5% 1/10W

R933	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R834	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R831	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R827	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R824	061L0805472	CHIRP 4.7K OHM +-5% 1/10W
R806	061L0805512	CHIP 5.1KOHM 1/8W
R828	061L0805512	CHIP 5.1KOHM 1/8W
R815	061L0805513	CHIP 51KOHM 1/8W
R808	061L0805561	CHIP 560 OHM 1/8W
R805	061L0805561	CHIP 560 OHM 1/8W
R818	061L0805623	CHIPR 62K OHM +-5% 1/10W
R826	061L0805683	CHIPR 68K OHM+-5% 1/10W
R817	061L0805684	680K 0805
R846	061L0805823	chip 82kohm 1/8w
R851	061L1206000	CHIPR 0 OHM +-5% 1/8W
JR901	061L1206000	CHIPR 0 OHM +-5% 1/8W
JR903	061L1206000	CHIPR 0 OHM +-5% 1/8W
R813	061L1206100	CHIPR 10 OHM+-5% 1/8W
R942	061L1206101	CHIP 100 OHM 5% 1/8W
R941	061L1206101	CHIP 100 OHM 5% 1/8W
R919	061L1206101	CHIP 100 OHM 5% 1/8W
R915	061L1206101	CHIP 100 OHM 5% 1/8W
R923	061L1206301	CHIP 300OHM 1/4W
R924	061L1206334	330K 1/4W
R925	061L1206334	330K 1/4W
R926	061L1206334	330K 1/4W
R850	061L1206471	CHIPR 470 OHM+-5% 1/8W
R944	061L1206519	CHIPR 5.1OHM +-5% 1/4W
R918	061L1206665 3F	665K OHM 1/8W
R916	061L1206665 3F	665K OHM 1/8W
R912	061L1206665 3F	665K OHM 1/8W
C910	065G0603104 22	CHIP 0.1UF +80-20% 50V Y5V
C911	065G0603104 22	CHIP 0.1UF +80-20% 50V Y5V
C923	065G0603104 22	CHIP 0.1UF +80-20% 50V Y5V
C937	065G0603104 22	CHIP 0.1UF +80-20% 50V Y5V
C946	065G0603104 32	CHIP 0.1UF 50V X7R
C945	065G0603104 32	CHIP 0.1UF 50V X7R
C944	065G0603104 32	CHIP 0.1UF 50V X7R
C941	065G0603104 32	CHIP 0.1UF 50V X7R
C936	065G0603104 32	CHIP 0.1UF 50V X7R

C909	065G0603105 17	1UF 16V Y5V
C832	065G0805102 31	1000PF 50V NPO
C925	065G0805103 22	CHIP 0.01uF 25V X7R 0805
C847	065G0805104 22	0.1UF +-10% 25V X7R 080
C928	065G0805104 22	0.1UF +-10% 25V X7R 080
C837	065G0805104 22	0.1UF +-10% 25V X7R 080
C836	065G0805104 22	0.1UF +-10% 25V X7R 080
C833	065G0805104 22	0.1UF +-10% 25V X7R 080
C828	065G0805104 22	0.1UF +-10% 25V X7R 080
C824	065G0805104 22	0.1UF +-10% 25V X7R 080
C823	065G0805104 22	0.1UF +-10% 25V X7R 080
C821	065G0805104 22	0.1UF +-10% 25V X7R 080
C817	065G0805104 22	0.1UF +-10% 25V X7R 080
C815	065G0805104 22	0.1UF +-10% 25V X7R 080
C814	065G0805104 22	0.1UF +-10% 25V X7R 080
C808	065G0805104 22	0.1UF +-10% 25V X7R 080
C804	065G0805104 22	0.1UF +-10% 25V X7R 080
C803	065G0805104 22	0.1UF +-10% 25V X7R 080
C919	065G0805104 32	CHIP 0.1U 50V X7R
C930	065G0805104 32	CHIP 0.1U 50V X7R
C932	065G0805104 32	CHIP 0.1U 50V X7R
C838	065G0805105 22	CHIP 1UF 25V X7R 0805
C834	065G0805105 22	CHIP 1UF 25V X7R 0805
C820	065G0805105 22	CHIP 1UF 25V X7R 0805
C907	065G0805225 12	CHIP 2.2UF 15V X7R 0805
C924	065G0805471 21	CHIP 470PF 25V NPO
C812	065G080547121G	470PF, G, 25V,NPO
C831	065G0805472 31	CHIP 4700PF 50V X7R 0805
C818	065G0805472 31	CHIP 4700PF 50V X7R 0805
C801	065G0805472 31	CHIP 4700PF 50V X7R 0805
C813	065G0805473 22	SMD 47nf +-10%25V XTR
C822	065G0805473 22	SMD 47nf +-10%25V XTR
C835	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C912	065G1206102 72	CHIP 1000PF 500V X7R
C920	065G1206102 72	CHIP 1000PF 500V X7R
C846	065G1206225 22	2.2UF 25V X7R 1206
C845	065G1206225 22	2.2UF 25V X7R 1206
C840	065G1206225 22	2.2UF 25V X7R 1206
C807	065G1206225 22	2.2UF 25V X7R 1206
C806	065G1206225 22	2.2UF 25V X7R 1206

C805	065G1206225 22	2.2UF 25V X7R 1206
D810	093G 6432P	LL4148
D911	093G 6432V	LL4148-GS08
D909	093G 6432V	LL4148-GS08
D804	093G 6432V	LL4148-GS08
D808	093G 6433P	BAV99
D809	093G 6433P	BAV99
D807	093G 6433P	BAV99
D806	093G 6433P	BAV99
D805	093G 6433P	BAV99
D803	093G 6433P	BAV99
D802	093G 6433P	BAV99
D801	093G 6433P	BAV99
ZD901	093G 39S 12 T	RLZ20B LLDS
ZD902	093G 39S 17 T	RLZ12B LLDS
ZD803	093G 39S 24 T	RLZ 5.6B LLDS
ZD802	093G 39S 24 T	RLZ 5.6B LLDS
ZD801	093G 39S 24 T	RLZ 5.6B LLDS
D901	093G8004500	SM840B
	PW1942CMH1AIP	POWER BOARD FOR AI
	034FPE19P03	CASE EEL19
	034FPE19P03	CASE EEL19
CN901	006G 31500	EYELET
T901	006G 31502	1.5MM RIVET
Q901	006G 31502	1.5MM RIVET
PT802	006G 31502	1.5MM RIVET
PT801	006G 31502	1.5MM RIVET
L902	006G 31502	1.5MM RIVET
L901	006G 31502	1.5MM RIVET
C904	006G 31502	1.5MM RIVET
IC904	056G 158 10 T	IC AZ431AZ-AE1 TO-92 BY AAC
R856	061G212Y625 KT	MGFR 6.2MOHM +-5% 1/2W
R855	061G212Y625 KT	MGFR 6.2MOHM +-5% 1/2W
C913	065G 2K152 1T GP	CERAMIC CAP
C917	067G 2151007RT	LOW E.S.R 10UF +/-20% 50V
L912	071G 55 29	FERRITE BEAD
L908	071G 55 29	FERRITE BEAD
L907	071G 55 29	FERRITE BEAD
F901	084G 55 2	MET2.50
D904	093G 6026T52T	RECTIFIER DIODE FR107

D905	093G 6038P52T	PS102R
D906	093G 6038P52T	PS102R
	715G1421 4	POWER BOARD PCB