

SERVICE MANUAL

19" ABSPC Monitor

R910E Series

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Manufacture Date: Nov-09-04

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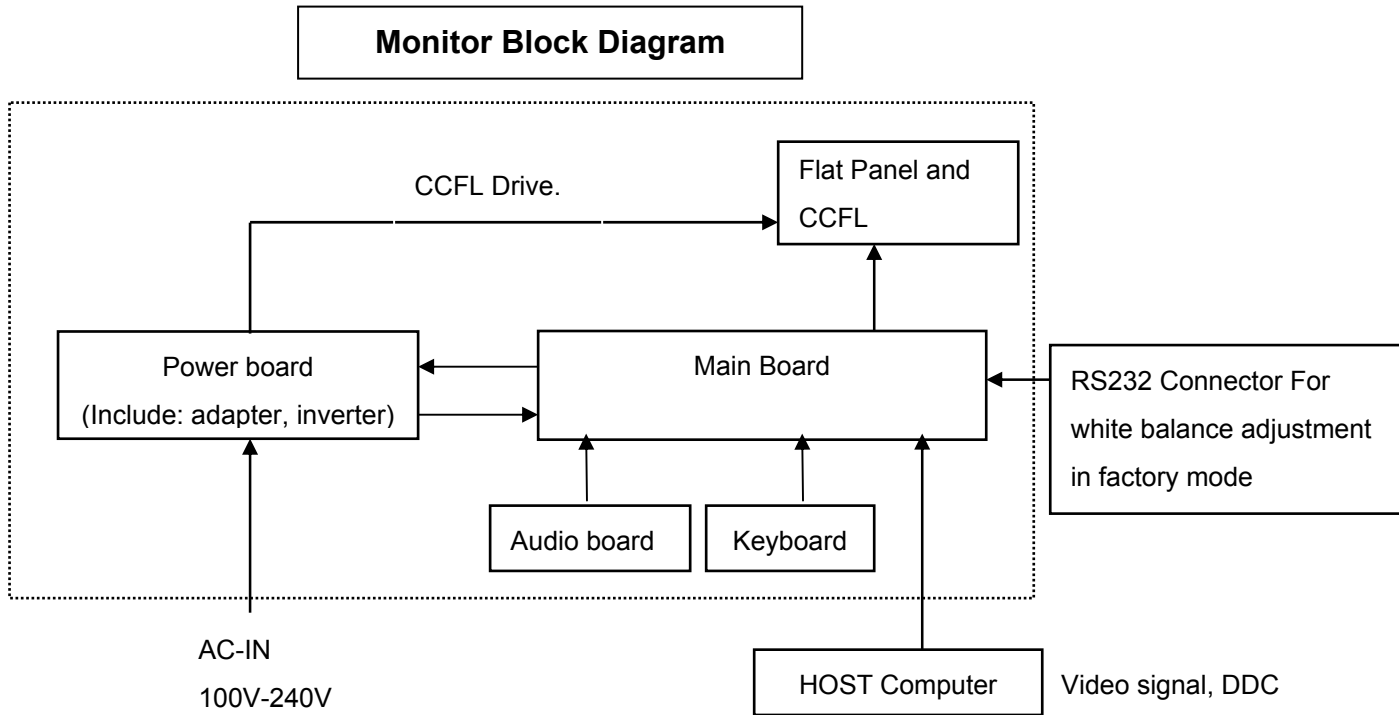
1. PRODUCT FEATURE

LCD Panel	Driving system	TFT Color LCD
	Size	48cm(19.0")
	Pixel pitch	0.294mm(H) x 0.294mm(V)
	Viewable angle	170° (H) 170° (V)
	Response time	25 ms (Typical)
Input	Video	R,G,B Analog Interface
		Digital Interface
	Separate Sync	H/V TTL
	H-Frequency	24KHz – 93KHz (Analog)
	V-Frequency	55-85Hz (Analog)
Display Colors	16.7M Colors	
Dot Clock	158MHz (Analog)	
Max. Resolution	1280 x 1024 @85Hz(Analog)	
Plug & Play	VESA DDC1/2B™	
EPA ENERGY STAR®	ON Mode	≤60W
	OFF Mode	≤5W
Audio output	Rated Power 2.0W (Per channel)	
Input Connector	D-Sub 15pin	
	DVI 24pin	
Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, Positive	
	Digital signal	
Maximum Screen Size	Horizontal: 376.32mm Vertical: 301.056mm	
Power Source	12VDC/5.0A 60W Max	
Environmental Considerations	Operating Temp: 0° to 40°C Storage Temp: -10° to 50°C Operating Humidity: 20% to 90%	
Weight (N. W.):	5.9Kgs Unit (net)	
Dimensions	432 (W) x 440 (H) x 198 (D) mm	

2. LCD MONITOR DESCRIPTION

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

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



3. OPERATING INSTRUCTIONS

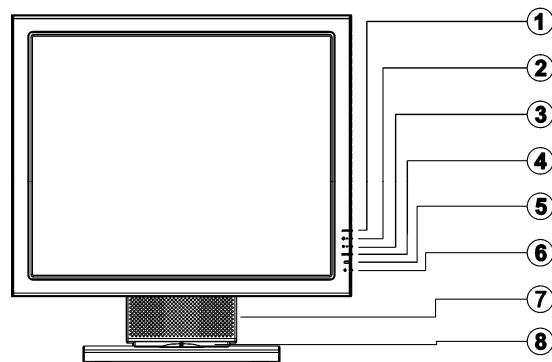
3.1 GENERAL INSTRUCTIONS

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

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

3.2 CONTROL BUTTONS

3.2.1 KEY CONTROL



3.2.2 KEY FUNCTION

- **⑥Power Button:**
Press this button to switch the monitor's power ON or OFF.
- **④MENU / ENTER:**
Activate OSD menu when OSD is OFF or activate/de-activate adjustment function when OSD is ON or Exit OSD menu when in Brightness/ Contrast OSD status.
- **②Brightness ☀ / ▲:**
Adjust brightness or function adjust.
- **⑦Headphone Jack**
- **③Contrast ● / ▼ :**
Adjust contrast or function adjust.
- **①Auto Adjust button / Exit:**
 1. When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu)
 2. When OSD menu is in OFF, press this button for 2 seconds to activate the Auto Adjustment function.
The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.
- **⑤Power Indicator:**
 - Green — Power On mode.
 - Orange — Off mode.

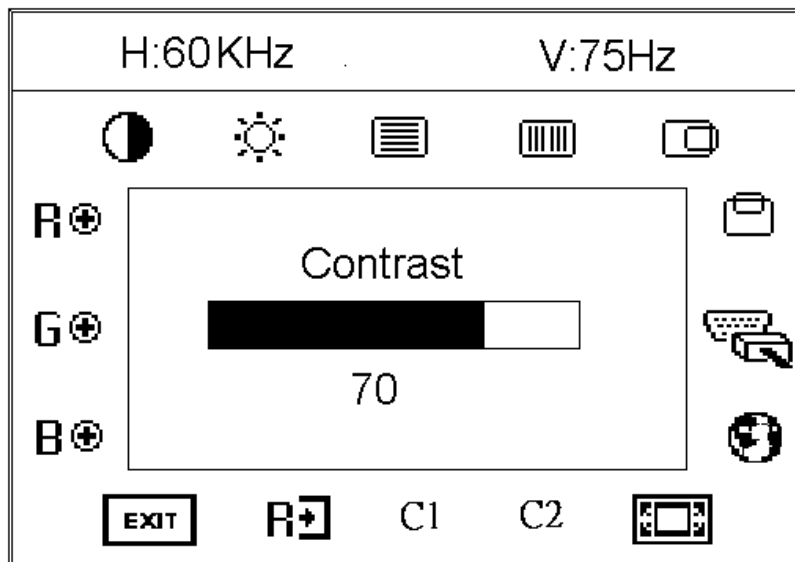
3.3 ADJUSTING THE PICTURE

1. Press the MENU-button to activate the OSD window. See figure 5.
2. Press ▲ or ▼ to select the desired function. See figure 5.
3. Press the MENU-button again to activate the highlighted function.
4. Press ▲ or ▼ to adjust the selected function.

Note: ▼ is used to adjust the function down & ▲ is used to adjust the function up. This is due to the orientation of the adjustment level bar.

5. When the OSD window is active, it shows the input signal timing. The "H" stands for the horizontal frequency and "V" for the vertical frequency.

6. To exit and save, select the exit function, or leave the monitor alone for 10 seconds. If you want to adjust another function press MENU again and repeat steps 2-4.



The descriptions for function control LEDS

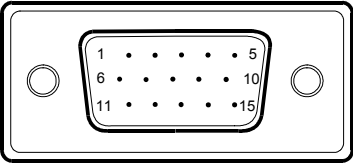
1.		Contrast	Adjust the picture contrast.
2.		Brightness	Adjust the picture brightness.
3.		Input Selected	Input Signal source selected (select Analog or Digital input source)
4.		Focus	Adjust picture Focus (available in Analog mode only).
5.		Clock	Adjust picture Clock (available in Analog mode only).
6.		H- Position	Adjust the horizontal position of the picture (available in Analog mode only).
7.		V- Position	Adjust the vertical position of the picture (available in Analog mode only).
8.		Language	Multi-Language selection
9.		Scaling Mode	Stretch the picture to fit full screen, screen size ratio or native size (this function only works when the resolution setting is lower than the native resolution of 1280x1024).
10.	R⊕	Red	Adjusts Red intensity.
11.	G⊕	Green	Adjusts Green intensity.
12.	B⊕	Blue	Adjusts Blue intensity.
13.	C1	(6500K) Color	The color temperature for 6500°K is x=0.313, y=0.329.
14.	C2	(7800K) Color	The color temperature for 7800°K is x=0.296, y=0.311.
15.	R↩	Reset	Clear old settings of Auto-configuration, re-activates auto-configuration and set the color temperature to 7800°K.
16.	EXIT	Exit	Save user adjustment and exit OSD menu.

4. INPUT/OUTPUT SPECIFICATION

4.1 ANALOG INPUT SIGNAL CONNECTOR

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Detect Cable
3.	Blue	11.	NC
4.	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

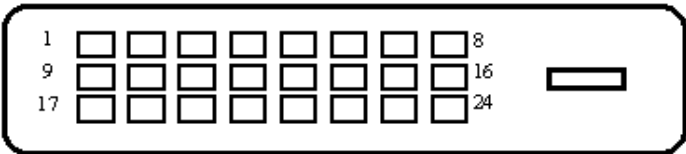
VGA Connector layout



4.2 DVI INPUT SIGNAL CONNECTOR

Pin	Meaning	Pin	Meaning	Pin	Meaning
1.	TMDS Data2-	9.	TMDS Data1-	17.	TMDS Data0-
2.	TMDS Data2+	10.	TMDS Data1+	18.	TMDS Data0+
3.	TMDS Data 2/4 Shield	11.	TMDS Data 1/3 Shield	19.	TMDS Data 0/5 Shield
4.	TMDS Data4-	12.	TMDS Data3-	20.	TMDS Data5-
5.	TMDS Data4+	13.	TMDS Data3+	21.	TMDS Data5+
6.	DDC Clock	14.	+5V Power	22.	TMDS Clock Shield
7.	DDC Data	15.	GND (For +5V)	23.	TMDS Clock+
8.	N.C.	16.	Hot Plug Detect	24.	DDC TMDS Clock-

24-Pin Color Display Signal Cable



4.3 FACTORY PRESET DISPLAY MODES

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
Dos-mode	640 × 350	31.47kHz	70.0Hz
	640 × 400	31.47kHz	70.0Hz
	720 × 400	31.47kHz	70.0Hz
VGA	640 × 480	31.47kHz	60.0Hz
	640 × 480	35.00kHz	66.6Hz
	640 × 480	37.50kHz	75.0Hz
	640 × 480	37.86kHz	72.0Hz
SVGA	800 × 600	37.879kHz	60.0Hz
	800 × 600	46.875kHz	75.0Hz
	800 × 600	35.16kHz	56.0Hz
	800 × 600	48.01kHz	72.0Hz
	832 × 624	49.725kHz	75.0Hz
XGA	1024 × 768	48.363kHz	60.0Hz
	1024 × 768	56.476kHz	70.0Hz
	1024 × 768	60.021kHz	75.0Hz
SXGA	1280 × 1024	64.000kHz	60.0Hz
	1280 × 1024	80.000kHz	75.0Hz
	1280 × 1024	91.146kHz	85.0Hz
	1152 × 864	79.976kHz	75.0Hz
	1280 × 960	60.000kHz	60.0Hz
	1280 × 960	80.000kHz	85.0Hz

Note: The factory preset mode for DOS is 720 × 400 @70 Hz.

4.4 PANEL SPECIFICATION

4.4.1 Panel Feature

- 48cm (19") TFT Color LCD Monitor
- High-speed response
- Recommended SXGA Resolutions: 1280 X 1024 @60Hz
- EPA ENERGY STAR®
- Dual Input (DVI + Analog)
- Space Saving, Compact Case Design
- High contrast ratio, high aperture structure
- PVA (Patterned Vertical Alignment) mode
- Wide viewing angle
- Low power consumption
- 2 Dual CCFTs (Cold Cathode Fluorescent Tube)
- DE only mode
- LVDS (Low Voltage Differential Signaling) interface (2 pixel/ clock)

4.4.2 Display Characteristics

Items	Specification	Unit	Note
Display area	376.32(H) × 301.056(V)	mm	
Driver element	a-Si TFT active matrix		
Display colors	16.7M (true)	colors	
Number of pixels	1280 x 1024	pixel	
Pixel arrangement	RGB vertical stripe		
Pixel pitch	0.294(H) × 0.294(V)	mm	
Display mode	Normally Black		
Surface treatment	Haze 44% , Hard-coating (3H)		

4.4.3 Optical Characteristics

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

(Inverter Freq. : 50kHz)

* $T_a = 25 \pm 2^\circ\text{C}$, $V_{DD}=5\text{V}$, $f_v=60\text{Hz}$, $f_{DCLK}=54\text{MHz}$, $I_L = 6.5\text{mA}_{rms}$

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast Ratio (Center of screen)		C/R	Normal $\phi = 0$ $\theta = 0$	400	500	-		(3) BM-5A
Response Time	Rising	Tr		-	15	20	msec	(5) BM-7
	Falling	Tf		-	10	15		
Luminance of White (Center of screen)		YL			220	250	-	cd/m2
Color Chromaticity (CIE 1931)	Red	Rx	Viewing Angle	TYP. -0.03	0.634	TYP. +0.03		(7) PR650
		Ry			0.354			
	Green	Gx			0.304			
		Gy			0.581			
	Blue	Bx			0.143			
		By			0.102			
	White	Wx			0.310			
		Wy			0.330			
Viewing Angle	Hor.	θ L	$CR \geq 10$	70	85	-	Degrees	(8) BM-5A
		θ R		70	85	-		
	Ver.	ϕ H		70	85	-		
		ϕ L		70	85	-		
Brightness Uniformity (9 Points)		Buni		-	-	25	%	(4) BM-5A
Luminance Uniformity(TCO'99)		L _R		-	-	1.7		(9)

4.4.4 TFT Module

Ta = 25°C

Item		Symbol	Min.	Typ.	Max.	Unit	Note
Voltage of Power Supply		V _{DD}	4.5	5.0	5.5	V	
Interface type		LVDS	DS90C383/385 DS90C386 Pair				
Current of Power Supply	(a) Black	I _{DD}	-	700	-	mA	(1),(3)
	(b) White		-	800	-	mA	
	(c) 2 line vertical		-	800	1,050	mA	
Vsync Frequency		f _V	59	60	76	Hz	
Hsync Frequency		f _H	60.9	64	81.1	kHz	
Main Frequency		f _{DCLK}	41	54	68.4	MHz	(2)
Rush Current		I _{RUSH}	-	-	4.0	A	(4)

4.4.5 Backlight Unit

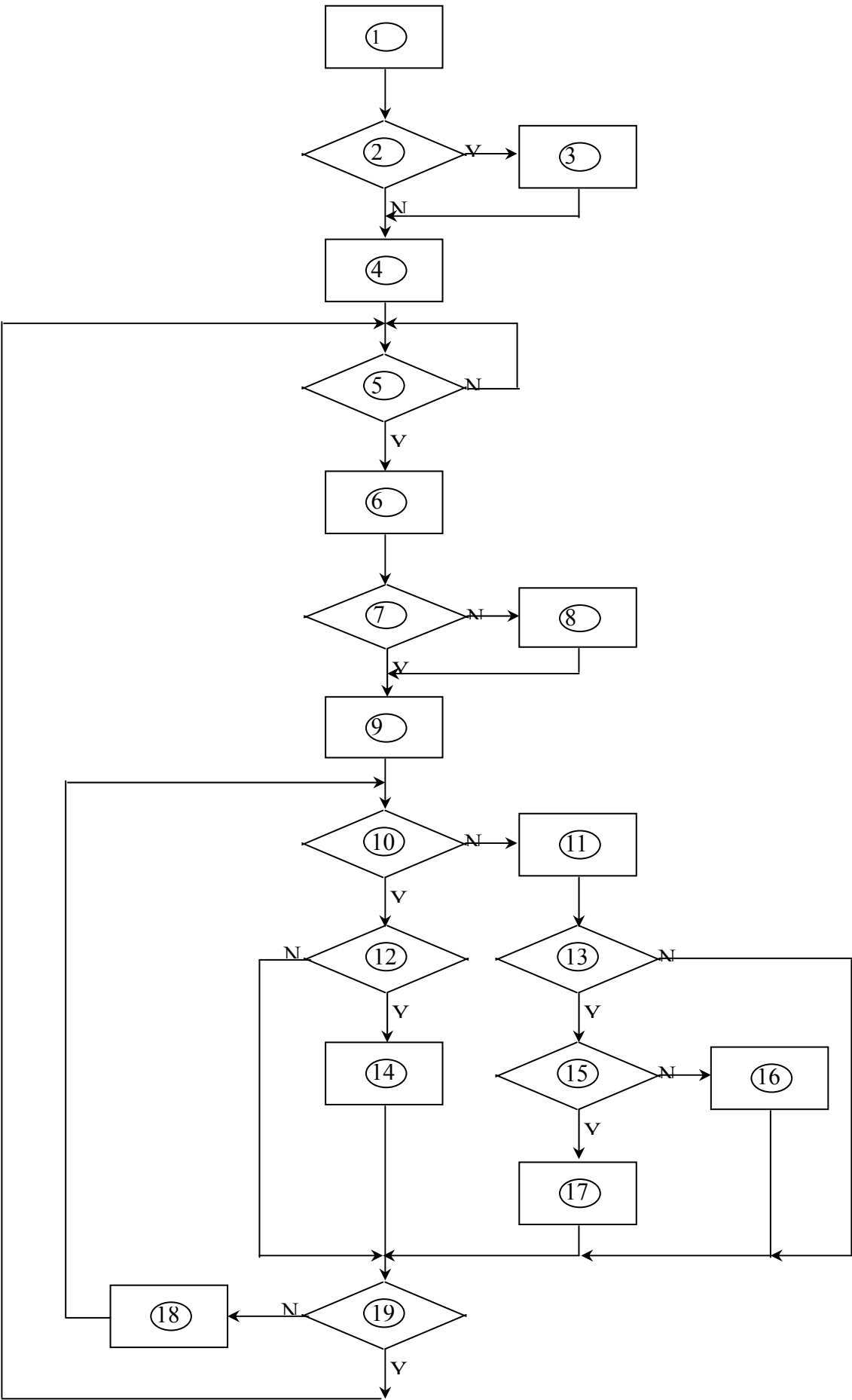
The backlight system is an edge-lighting type with 2 dual CCFTs (Cold Cathode Fluorescent Tube), the characteristics of two dual lamps are shown in the following table.

Ta = 25°C

Item		Symbol	Min.	Typ.	Max.	Unit	Note
Voltage of Power Supply		V _{DD}	4.5	5.0	5.5	V	
Interface type		LVDS	DS90C383/385 DS90C386 Pair				
Current of Power Supply	(a) Black	I _{DD}	-	700	-	mA	(1),(3)
	(b) White		-	800	-	mA	
	(c) 2 line vertical		-	800	1,050	mA	
Vsync Frequency		f _V	59	60	76	Hz	
Hsync Frequency		f _H	60.9	64	81.1	kHz	
Main Frequency		f _{DCLK}	41	54	68.4	MHz	(2)
Rush Current		I _{RUSH}	-	-	4.0	A	(4)

5. BLOCK DIAGRA

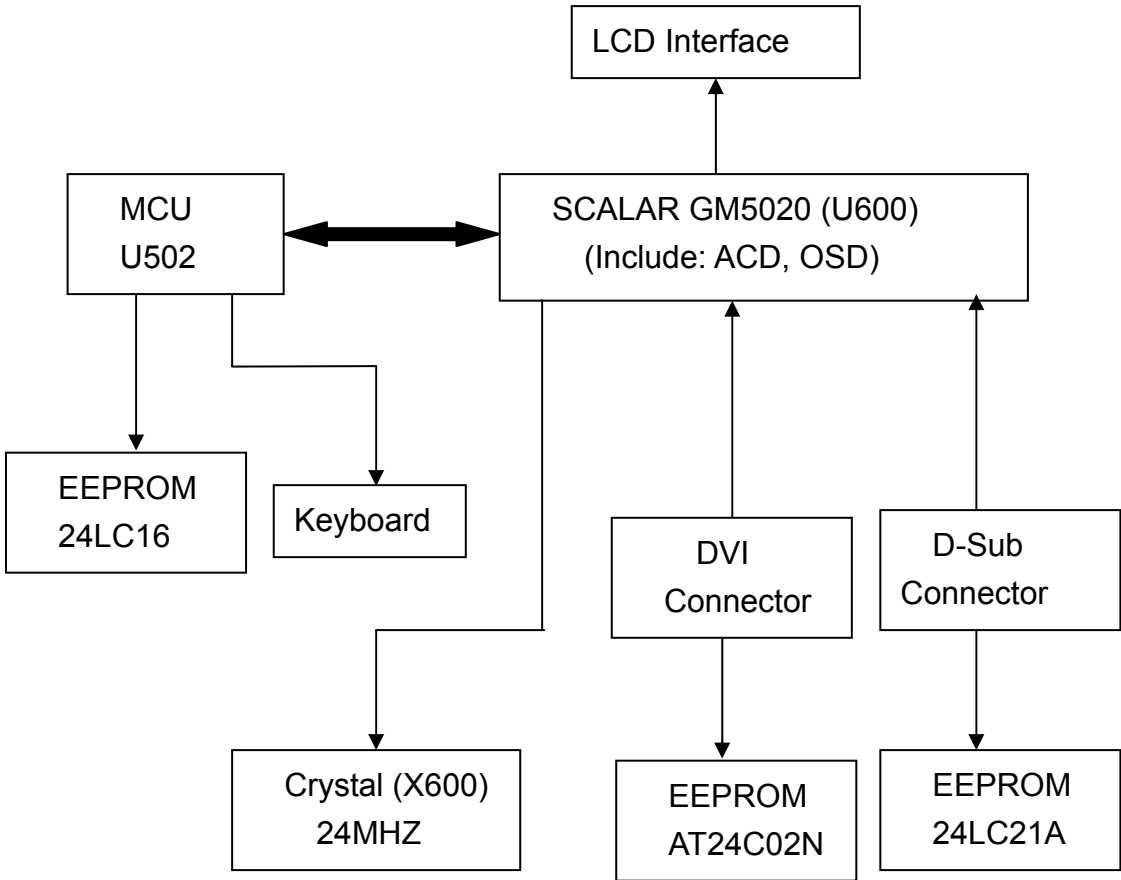
5.1 SOFTWARE FLOW CHAR



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. Scaler initialize.
10) In standby mode?
11) Update the life time of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message 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?

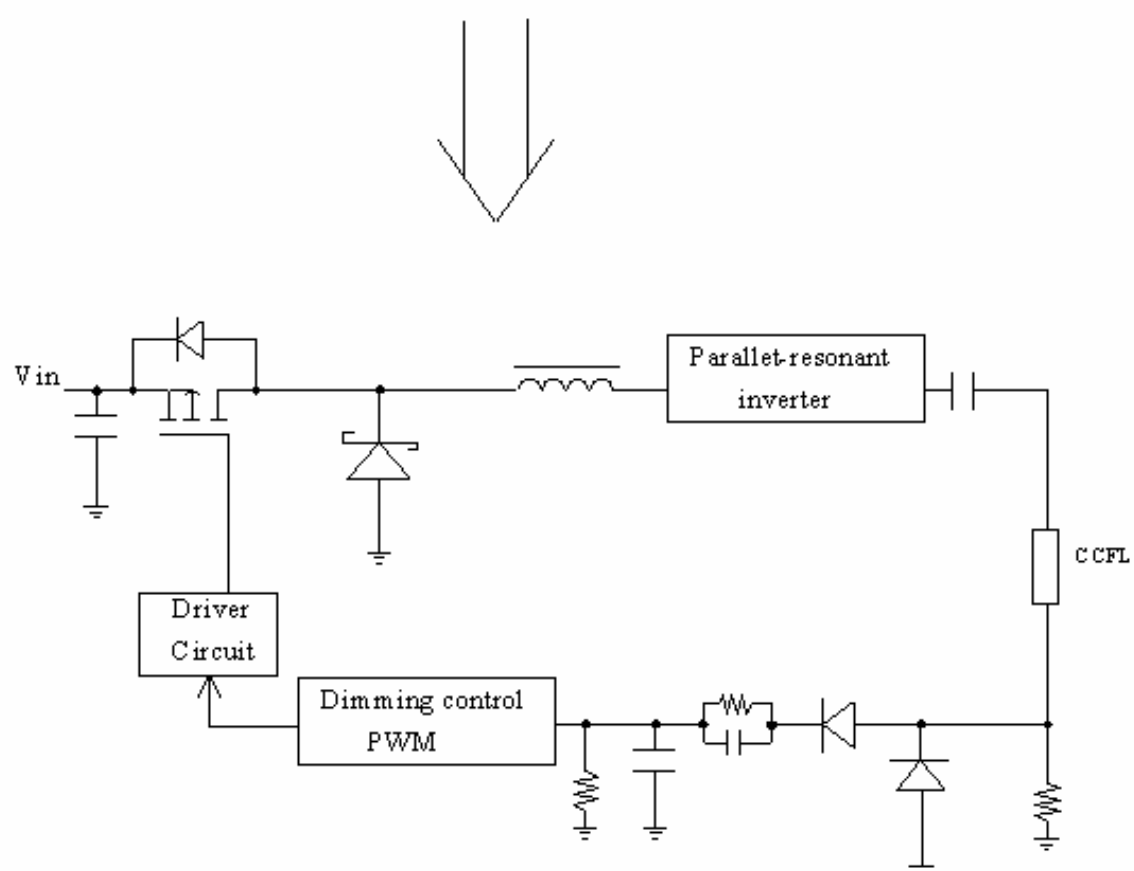
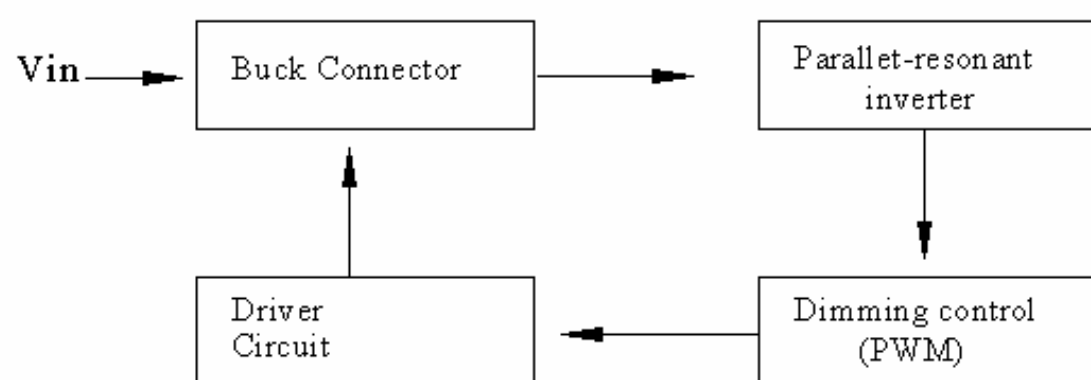
5.2 ELECTRICAL BLOCK DIAGRAM

5.2.1 SCALAR BOARD BLOCK DIAGRAM



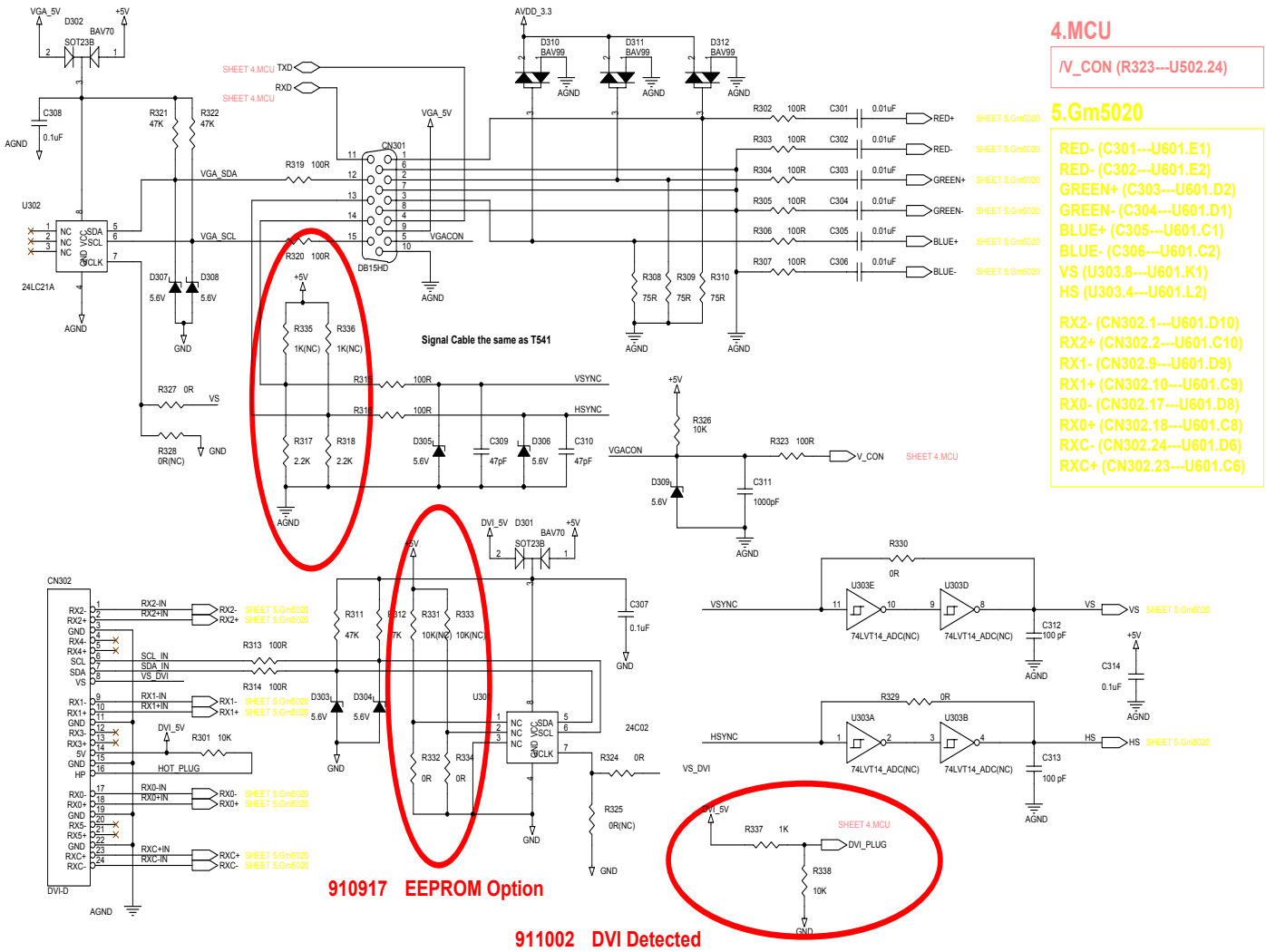
5.2.2 INVERTER/POWER BOARD BLOCK DIAGRAM

Inverter Block Diagram



6. Schematic

6.1 Main board



5.Gm5020

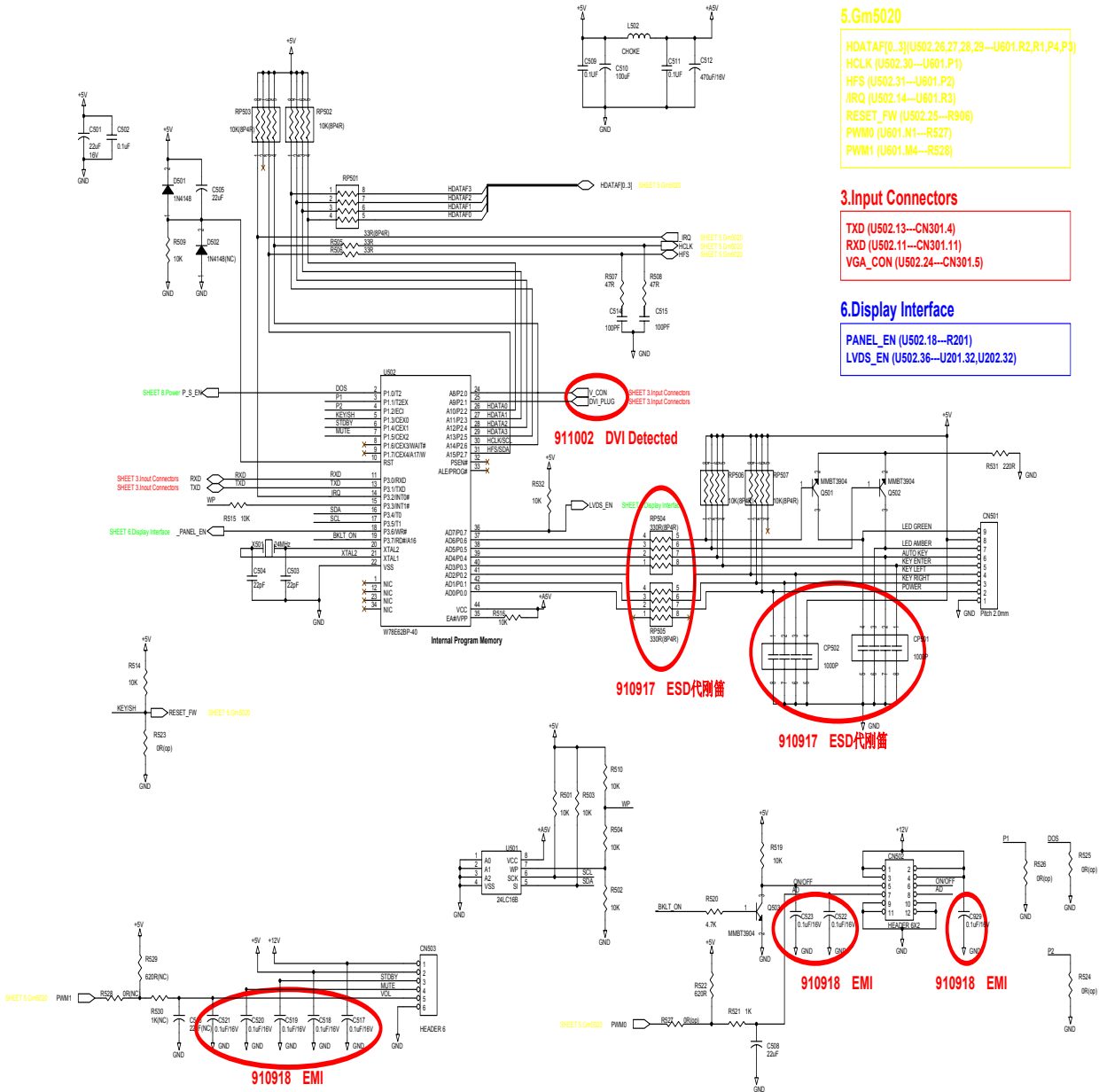
HDATAF[0..3](U502.26,27,28,29—U601.R2,R1,P4,P3)
HCLK (U502.30—U601.P1)
HFS (U502.31—U601.P2)
IRQ (U502.14—U601.R3)
RESET_FW (U502.25—R906)
PWM0 (U601.N1—R527)
PWM1 (U601.M4—R528)

3.Input Connectors

TXD (U502.13—CN301.4)
RXD (U502.11—CN301.11)
VGA_CON (U502.24—CN301.5)

6.Display Interface

PANEL_EN (U502.18—R201)
LVDS_EN (U502.36—U201.32,U202.32)



TXD (U502.13---CN301.4)
RXD (U502.11---CN301.11)
VGA_CON (U502.24---CN301.5)

PANEL_EN (U502.18---R201)
LVDS_EN (U502.36---U201.32,U202.32)

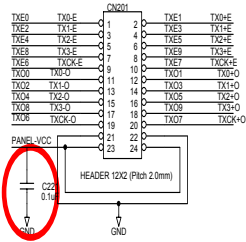


5.Gm5020

- DARED[0..7] (U601---U201)
- DAGRN[0..7] (U601---U201)
- DABLU[0..7] (U601---U201)
- DBRED[0..7] (U601---U201)
- DBGRN[0..7] (U601---U201)
- DBBLU[0..7] (U601---U201)
- DCLK (U601.G20---U201.31,U202.31)
- DHS (U601.F20---U201.27,U202.27)
- DVS (U601.F19---U201.28,U202.28)
- DEN (U601.F18---U201.30,U202.30)

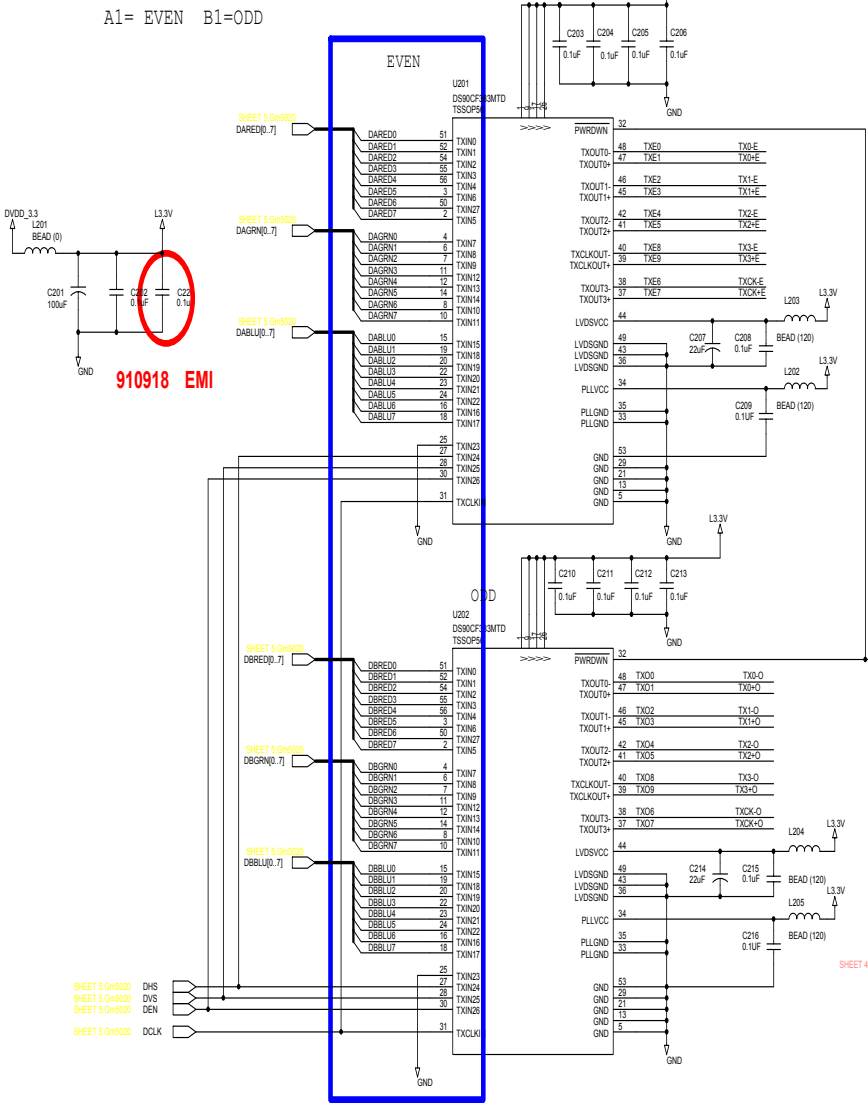
4.MCU

- PANEL_EN (U502.18---R201)
- LVDS_EN (U502.36---U201.32,U202.32)



910918 EMI

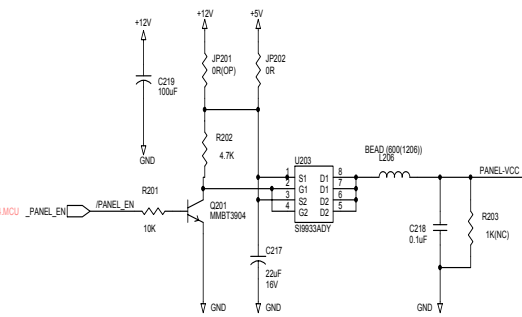
SHEET 4 MCU

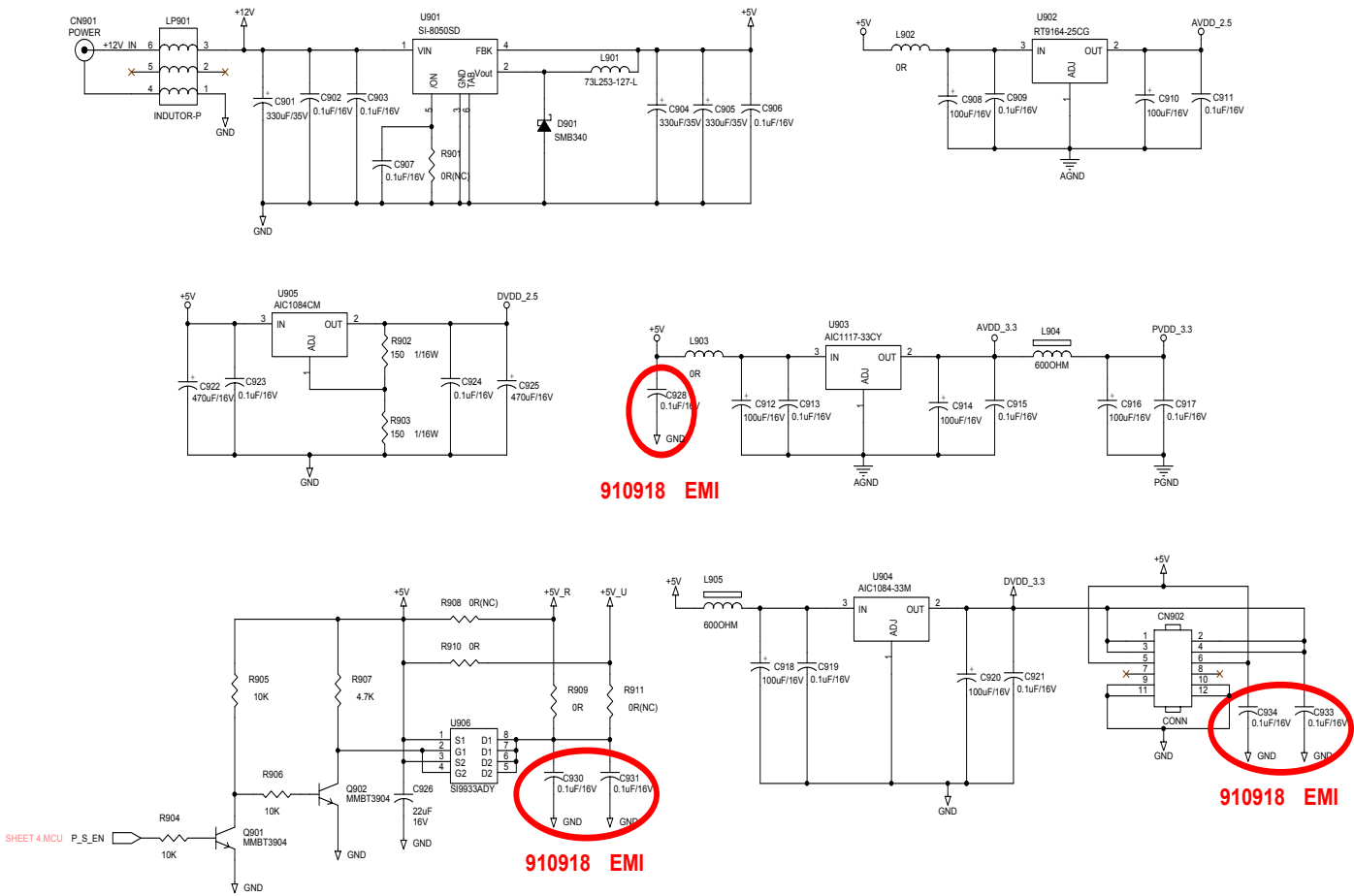


A1= EVEN B1=ODD

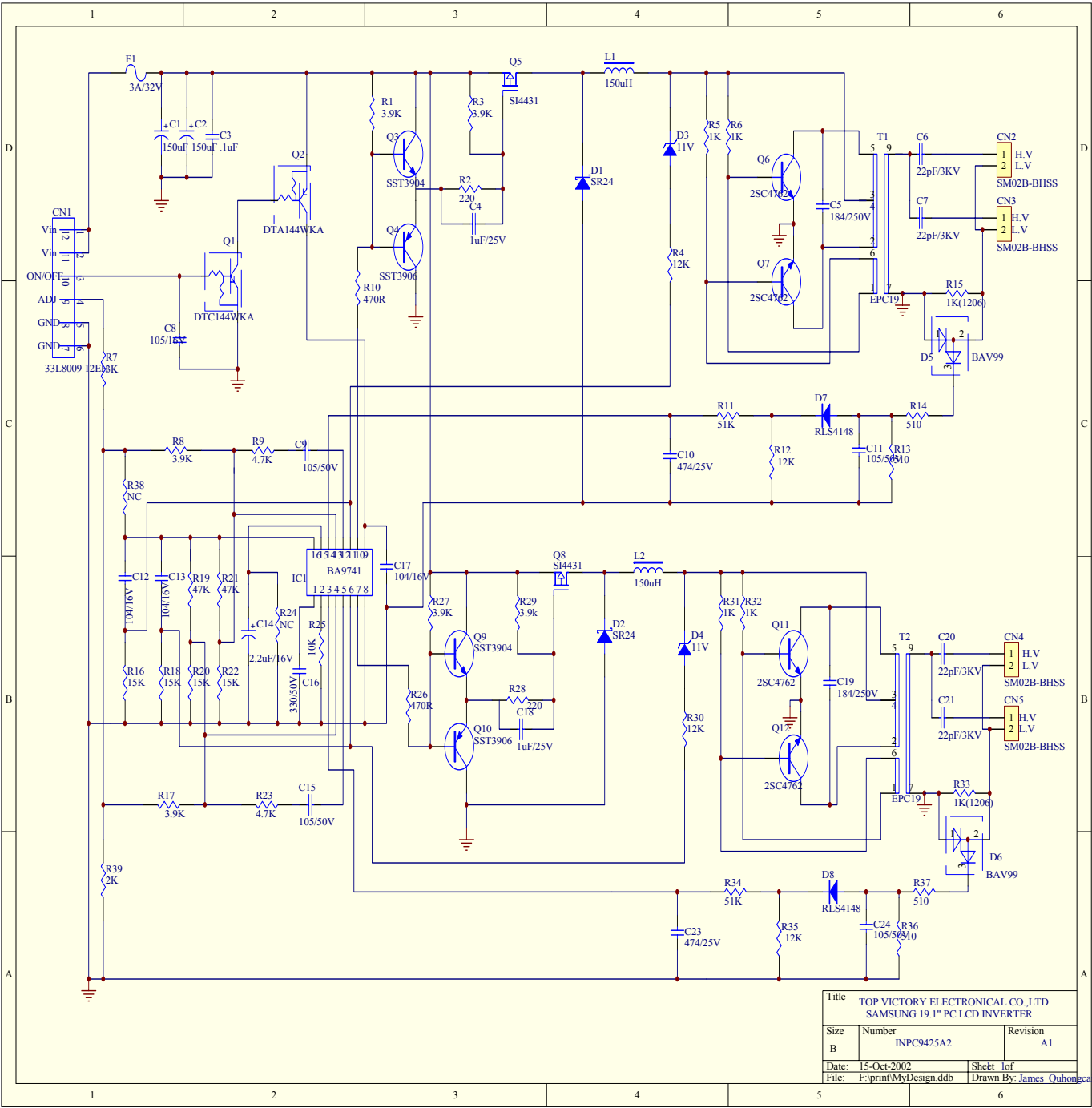
SHEET 5 Gm5020
SHEET 5 Gm5020
SHEET 5 Gm5020

SHEET 4 MCU





6.2 Inverter



7. MAINTAINABILITY

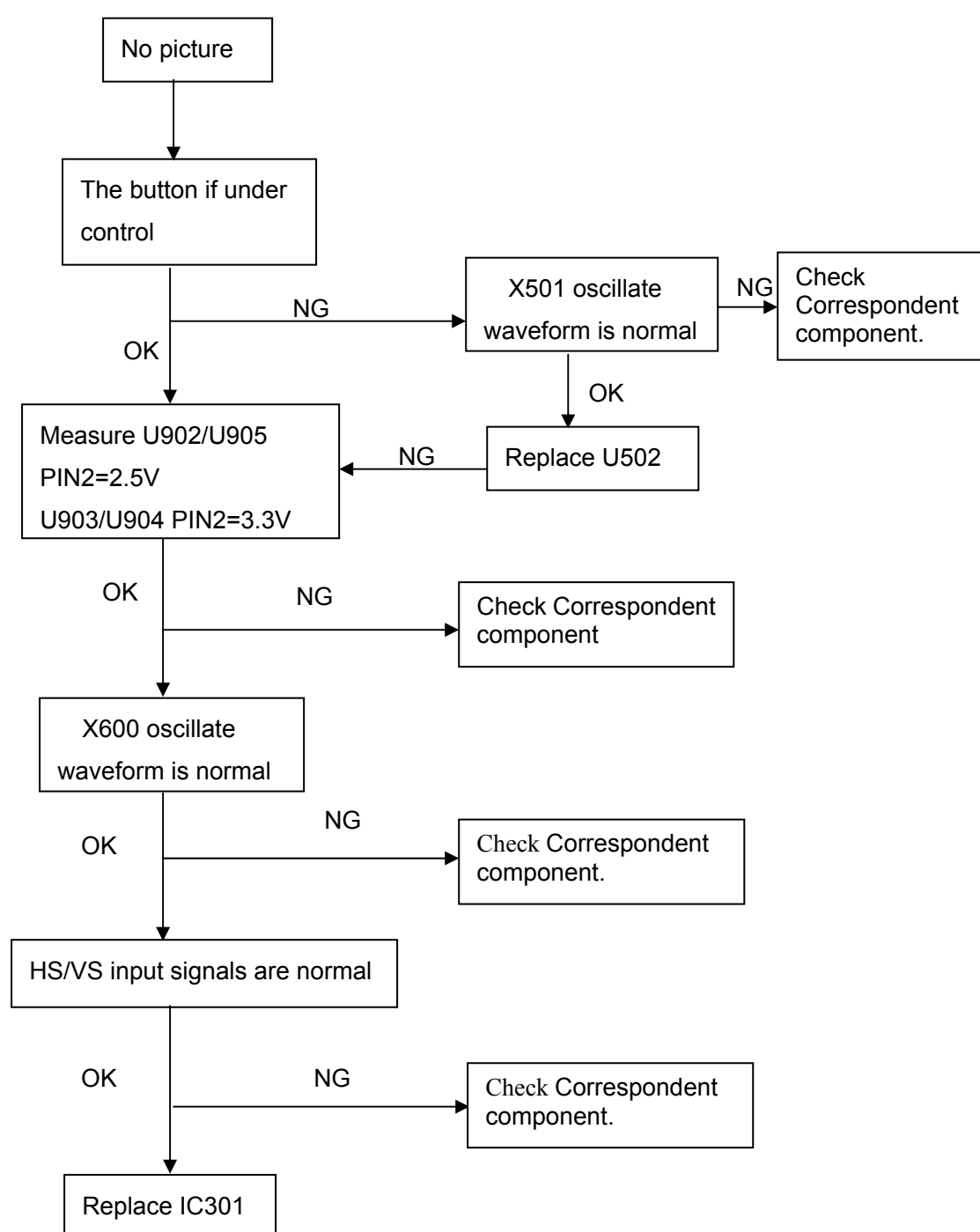
7.1 EQUIREMENT AND TOOLS REQUIREMENT

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

7.2 TROUBLE SHOOTING

7.2.1 MAIN BOARD

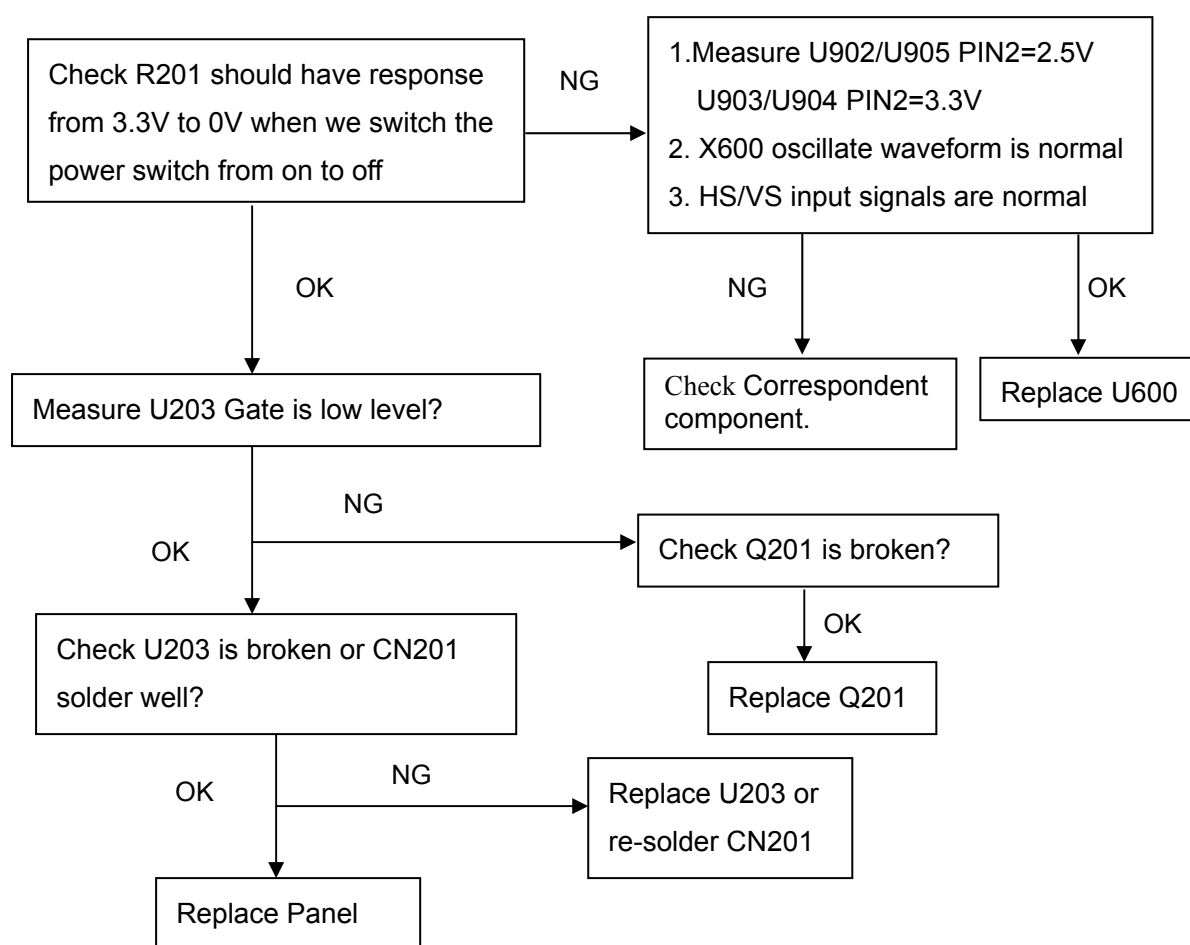
1.NO SCREEN APPEAR



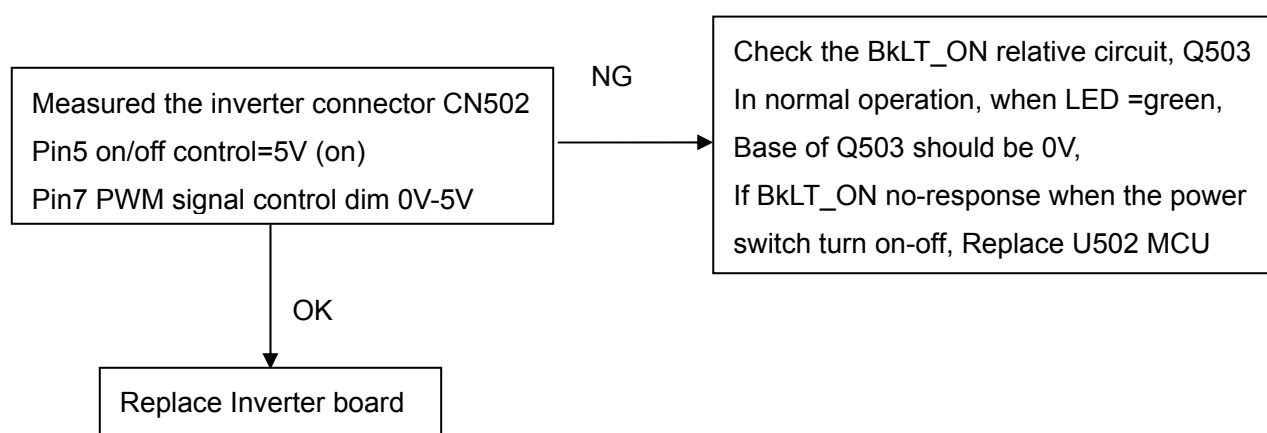
Note: 1.If replace “**MAIN-BOARD**”, Please re-do “DDC-content” programmed & “WHITE-Balance”.

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

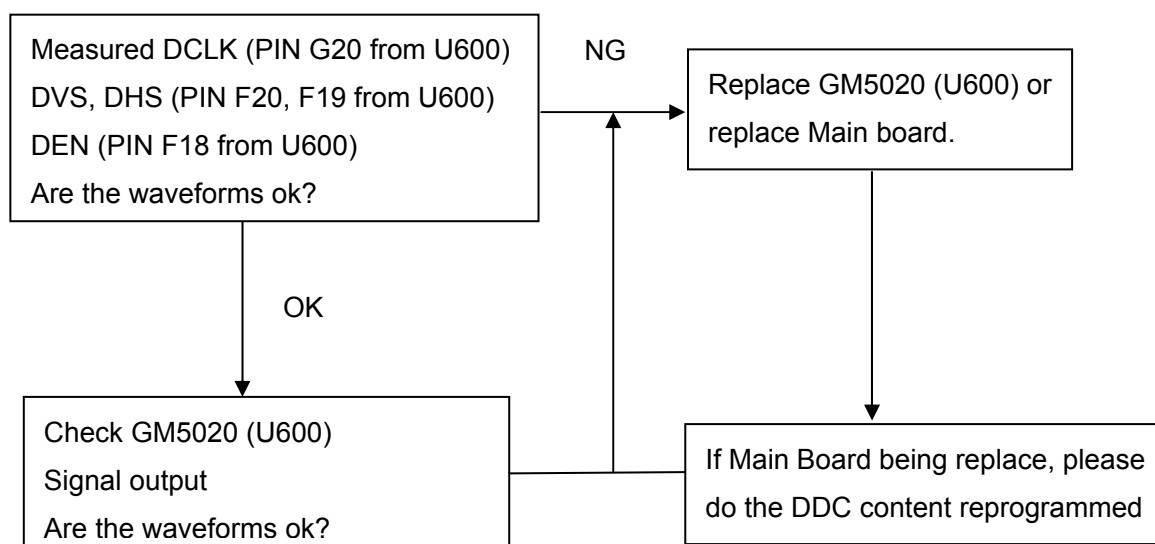
2. PANEL POWER CIRCUIT



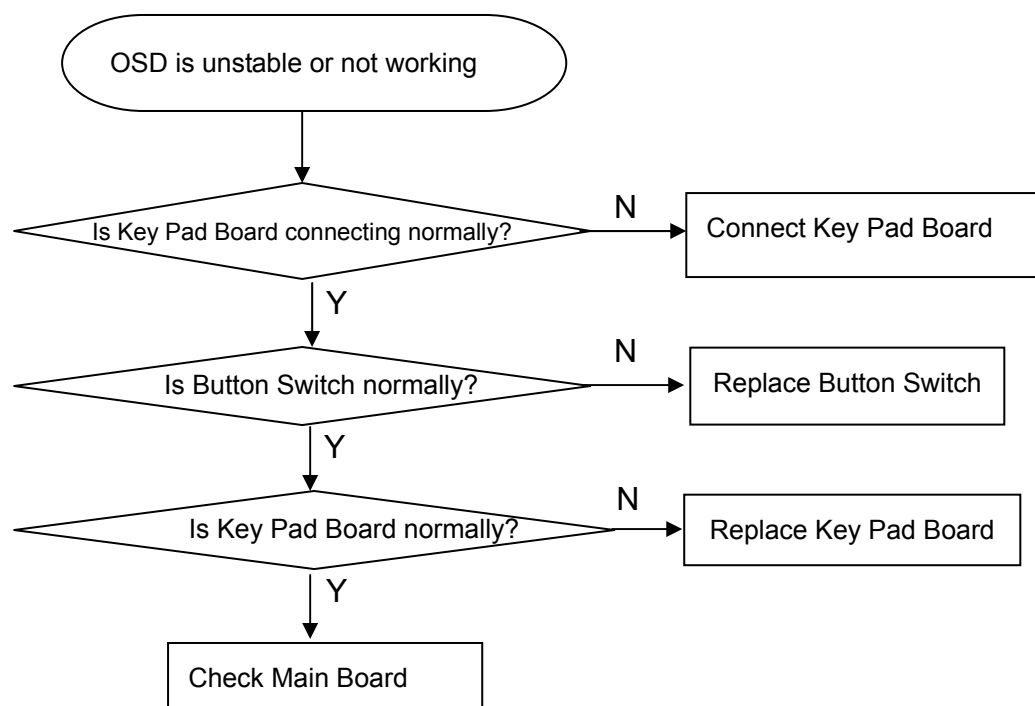
3. INVERTER CONTROL RELATIVE CIRCUIT



4. DATA OUTPUT

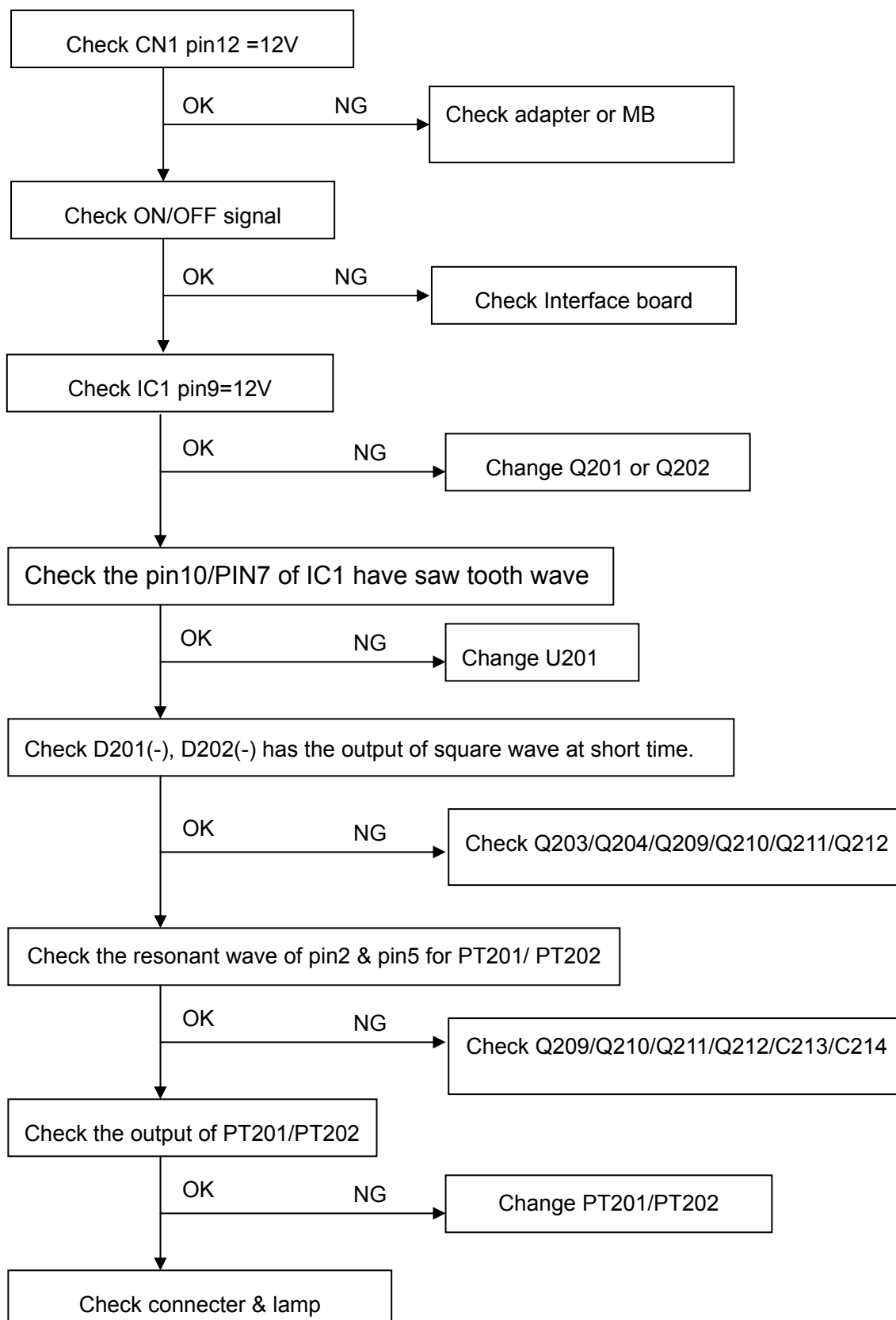


7.2.2 KEYPAD BOARD



7.2.3 POWER/INVERTER BOARD

No Backlight



8. 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 $x = 296 \pm 10$, $y = 311 \pm 10$, $Y = 200 \pm 10 \text{ cd/m}^2$,

B 、MEM.CHANNEL 4 (6500 color):

6500 color temp. parameter is $x = 313 \pm 10$, $y = 329 \pm 10$, $Y = 200 \pm 10 \text{ cd/m}^2$)

3.Into factory mode of LM929

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 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 $x = 296 \pm 10$, $y = 311 \pm 10$,
 $Y = 200 \pm 10 \text{ cd/m}^2$
- 4 、 Adjust the RED of color1 on factory window until chroma 7120 indicator reached the value $R=100$
- 5 、 Adjust the GREEN of color1 on factory window until chroma 7120 indicator reached the value $G=100$
- 6 、 Adjust the BLUE of color1 on factory window until chroma 7120 indicator reached the value $B=100$
- 7 、 Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance $=100 \pm 2$

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 $x = 313 \pm 10$, $y = 329 \pm 10$,
 $Y = 200 \pm 10 \text{ cd/m}^2$
- 4 、 Adjust the RED of color3 on factory window until chroma 7120 indicator reached
the value $R=100$
- 5 、 Adjust the GREEN of color3 on factory window until chroma 7120 indicator reached
the value $G=100$
- 6 、 Adjust the BLUE of color3 on factory window until chroma 7120 indicator reached
the value $B=100$
- 7 、 Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the
tolerance $=100 \pm 2$

C 、 Press reset key and Turn the Power-button “off to on” to quit from factory mode.

9. BOM LIST

T990KSANKAAZA

Location	TPV NO.	Description	Quantity	Unit
	ADPC1260AE	LCD ADAPTER BOARD ASS'Y	1	PCS
	AUPC991A2	LCD AUDIO BOARD FOR T99	1	PCS
	CBPC990KSAAP	CONVERSION BOARD FOR T9	1	PCS
	INPC9425A3	DC TOAC INV OF SAMSUNG	1	PCS
	KEPC991KA1	KEY BOARD	1	PCS
	15L5790 1	MAIN FRAME 9SAMSUNG	1	PCS
	15L5791 1	VESA BRACKET	1	PCS
	26L 800504 7	BARCODE	1	PCS
	34L1020 U0 1L	REAR COVER	1	PCS
	34L1021 U0 1L	HANDLE REAR COVER	1	PCS
	34L1050 U0 4L	VESA COVER	1	PCS
	34L1051 U2 L	STAND COVER	1	PCS
	40L 191879 1B	ID LABEL	1	PCS
	40L 58162435A	LABEL	1	PCS
	41L1900879 1A	MANUAL	1	PCS
	41L780061513B	INPUT NOT SUPPORT CARD	1	PCS
	44L3278 1	EPS CUSHION(L)	1	PCS
	44L3278 2	EPS CUSHION(R)	1	PCS
	44L3278879 2B	CARTON	1	PCS
	45L 76 28 RN	PE BAG for MANUAL/BASE	1	PCS
	45L 88606	PE BAG FOR BASE	1	PCS
	45L 88626 2	PE BAG FOR MONITOR	1	PCS
	50L 600 2	HANDLE1	1	PCS
	50L 600 3	HANDLE2	1	PCS
	52L 1185	MIDDLE TAPE FOR CARTON	1	CM
	52L 1186	SMALL TAPE	8	CM
	52L6020 5	PROTECT FILM	1	PCS
	52L6025 11554	INSULATE SHEET	1	PCS
	70L L19500ROW	DRIVER DISK	1	PCS
	78L 312 2	SPEAKER WITH HARNESS	1	PCS
	85L 605 1	MAIN SHIELD	1	PCS
	89L 173 56 8	AUDIO CABLE 1800mm BLAC	1	PCS
	89L 174L19 2A	SIGNAL CABLE	1	PCS
	89L1748LAA 1	SIGNAL CABLE	1	PCS
	89L402A18N IS	POWER CORD	1	PCS
	95L8018 30505	WIRE HARNESS	1	PCS
	M1L 330 4128	SCREW M3X4	1	PCS

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	M1L 330 6128	SCREW	5	PCS
	M1L1740 12128	SCREW	4	PCS
	Q1L 930 16120	SCREW(3X16)	4	PCS
	750LLS90 E1 1	SAMSUNG 19" PANEL	1	PCS
	ADPC1260ASMT	LCD ADAPTER ASS'Y FOR S	1	PCS
	33L6007 1	LENS	1.01	PCS
	40L 154501 1	HI-POT GND LABEL FOR MO	1	PCS
	40L 581700 6A	LABEL	1.04	PCS
	40L500B615 1B	ID LABEL	1.02	PCS
	45L 88525 E	PE BAG	1.02	PCS
	52L 1211 A	ALUMINIUM TAPE	2.04	PCS
IC903	56L 139 3A	PC123Y22	1	PCS
NR901	61L 58050 WT	NTC 5 OHM 5A	1	PCS
C903	63L 107474 HS	0.47UF +-10% 250VAC	1	PCS
C901	65L305M1022E3	1000PF +-20% 400VAC BY	1	PCS
C902	65L305M1022E3	1000PF +-20% 400VAC BY	1	PCS
C904	67L 30515114H	150UF 400V HERMEI	1	PCS
C911	67L215C102 4H	1000UF 25V LZ HER MEI	1	PCS
C912	67L215C102 4H	1000UF 25V LZ HER MEI	1	PCS
C920	67L215C102 4H	1000UF 25V LZ HER MEI	1	PCS
	71L 55500 S	FERRITE BEAD 3.5*3*1.3	1	PCS
L901	73L 174 29 LS	LINE FILITER LISHIN	1	PCS
L902	73L 174 31 LS	LINE FILTER	1	PCS
L903	73L 253 91 H	CHOKE COIL	1	PCS
T901	80LL17T 5 LS	ADAPTOR BY LISHIN	1	PCS
LED1	81L 2 3 2P	GPG2603TE/R006	1	PCS
F901	84L 53 2	250V/2A	1	PCS
CN901	87L 501 11 RF	AC SOCKET	1	PCS
	89L 171513	1.2M 16AWG 1185 STYLE	1	PCS
	90L6063500 T	HEAT SINK	1	PCS
	90L6083 1	HEAT SINK	1	PCS
BD901	93L 50460 16	U4KB80R	1	PCS
D904	93L 60237	SRF20100C	1	PCS
D905	93L 60237	SRF20100C	1	PCS
D901	93L 6026T52T	RECTIFIER DIODE FR107	1	PCS
D902	93L 6038P52T	PS102R	1	PCS
RJ1	95L 90 26	COPPER MANGANESE WIRE	1	PCS
A	95L 205430322	FL YWIRE 43MM 18 AWG RE	1	PCS
	96L 29 8	TUBE	1	PCS
	M1L 330 8128	SCREW	2	PCS
	W33L6045 B T	TOP COVER	1.01	PCS

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	W33L6046 B T	COVER	1.01	PCS
	705L 990 57 01	Q901 ASS'Y	1	PCS
	ADPC1260AAI	LCD ADAPTER ASS'Y FOR A	1	PCS
IC902	56L 192 10	LM358D	1	PCS
IC901	56L 379 33	SG6841S	1	PCS
Q903	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q902	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS
R926	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R928	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R930	61L0805152	CHIPR 1.5K OHM +-5% 1/8	1	PCS
R929	61L0805153	CHIPR 15K OHM+-5% 1/8W	1	PCS
R931	61L0805154	CHIP 150KOHM 5% 1/8W	1	PCS
R915	61L0805240 2F	CHIP 24KOHM 1% 1/8W	1	PCS
R934	61L0805243 1F	CHIP 2.43K OHM 1/8W 1%	1	PCS
R913	61L0805332	CHIP 3.3K OHM +-5% 1/8W	1	PCS
R932	61L0805332	CHIP 3.3K OHM +-5% 1/8W	1	PCS
R927	61L0805363	CHIP 36KOHM 1/8W	1	PCS
R910	61L0805471	CHIPR 470 OHM+-5% 1/8W	1	PCS
R911	61L0805472	CHIPR 4.7K OHM +-5% 1/8	1	PCS
R912	61L0805472	CHIPR 4.7K OHM +-5% 1/8	1	PCS
R936	61L0805683	CHIPR 68K OHM+-5% 1/8W	1	PCS
R933	61L0805931 1F	CHIP 9.31K OHM 1/8W 1%	1	PCS
R917	61L1206100	CHIPR 10 OHM+-5% 1/4W	1	PCS
R901	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R902	61L1206105	CHIP 1MOHM 5% 1/4W	1	PCS
R918	61L1206159	CHIP1.5OHM 5% 1/4W	1	PCS
R919	61L1206159	CHIP1.5OHM 5% 1/4W	1	PCS
R920	61L1206159	CHIP1.5OHM 5% 1/4W	1	PCS
R921	61L1206159	CHIP1.5OHM 5% 1/4W	1	PCS
R935	61L1206159	CHIP1.5OHM 5% 1/4W	1	PCS
R905	61L1206204	CHIP 200KOHM 1/4W	1	PCS
R906	61L1206204	CHIP 200KOHM 1/4W	1	PCS
R907	61L1206204	CHIP 200KOHM 1/4W	1	PCS
R908	61L1206204	CHIP 200KOHM 1/4W	1	PCS
R922	61L1206470	CHIP 47OHM 5% 1/4W	1	PCS
R923	61L1206470	CHIP 47OHM 5% 1/4W	1	PCS
R925	61L1206472	CHIP 4.7KOHM 5% 1/4W	1	PCS
R909	61L1206519	CHIPR 510OHM +-5% 1/4W	1	PCS
R903	61L1206624	CHIP 620K 5% 1/4W	1	PCS
R904	61L1206624	CHIP 620K 5% 1/4W	1	PCS
C915	65L0805103 22	CHIP 0.01uF 25V X7R 080	1	PCS

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C909	65L0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C914	65L0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C921	65L0805104 22	0.1UF +-10% 25V X7R 080	1	PCS
C917	65L0805105 12	1UF +-10% 16V X7R	1	PCS
C916	65L0805221 21	CHIP 220PF 25V NPO	1	PCS
C907	65L0805474 27	CHIP 0.47UF 25V Y5V	1	PCS
C908	65L0805474 27	CHIP 0.47UF 25V Y5V	1	PCS
C923	65L1206101 71	100PF 500V 1/8W	1	PCS
C922	65L1206102 32	CHIP 1000PF/X7R +-5%	1	PCS
C910	65L1206102 72	CHIP 1000PF 500V X7R	1	PCS
D906	93L 64 38 P	BAW56	1	PCS
D903	93L 6432V	LL4148-GS08	1	PCS
D907	93L 6432V	LL4148-GS08	1	PCS
ZD902	93L 39S 3 T	BZT52-C11	1	PCS
ZD901	93L 39S 12 T	RLZ20B BY ROHM	1	PCS
	715L 901 1 8	PCB BOARD	1	PCS
R924	61L 17224152T	240OHM 5% 1/4W	1	PCS
C906	67L 305220 7T	22UF +-20% 50V	1	PCS
IC904	56L 158 4 T A	H431BA	1	PCS
C924	65L 1K101 5T6921	100PF/1KV	1	PCS
C905	65L 1K152 1T6052	1.5NF/1KV Z5F+-10%	1	PCS
C913	67L 305471 3T	470UF 16V	1	PCS
Q901	57L 724 8	2SK2843	1	PCS
	90L6062 1	HEAT SINK	1	PCS
	M1L1030 5128	SCREW	1	PCS
	AUPC991A2AI	LCD AUDIO BOARD AI FOR	1	PCS
	AUPC991A2SMT	LCD AUDIO BOARD FOR T99	1	PCS
CN2	33L3802 4	WAFER EH-4	1	PCS
U1	56L 616 1	TDA7496L BY ST	1	PCS
C1	67L309V471 3	470UF+-20% 16V	1	PCS
C10	67L309V471 3	470UF+-20% 16V	1	PCS
C2	67L309V471 3	470UF+-20% 16V	1	PCS
VR1	75L 35810321A	VR 10KB BLACK R103H-0BK	1	PCS
M2	88L 30210K	PHONE JACK	1	PCS
M1	88L 30211K	PHONE JACK	1	PCS
CH3	95L8014 3 3	WIRE HARNESS	1	PCS
CN1	95L8014 5 16	WIRE HARNESS	1	PCS
	715L 976 1A	AUDIO BOARD	1	PCS
C4	67L 309100 4T	10UF+-20% 25V	1	PCS
C12	67L 309101 3T	100uF 16V	1	PCS
C13	67L 309229 7T	2.2UF 50V	1	PCS

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C5	67L 309470 4T	47UF +-20% 25V	1	PCS
C8	67L 309471 3T	470UF +-20% 16V	1	PCS
R1	61L0805000	CHIP O OHM 1/8W	1	PCS
R6	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R7	61L0805102	CHIPR 1K OHM +-5% 1/8W	1	PCS
R3	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R4	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R5	61L0805103	CHIPR 10K OHM +-5% 1/8W	1	PCS
R12	61L0805152	CHIPR 1.5K OHM +-5% 1/8	1	PCS
R13	61L0805224	CHIPR 220K OHM +-5% 1/8	1	PCS
R9	61L0805224	CHIPR 220K OHM +-5% 1/8	1	PCS
R10	61L0805562	CHIP 5.6K OHM 1/8W	1	PCS
R11	61L0805562	CHIP 5.6K OHM 1/8W	1	PCS
R2	61L0805750	CHIPR 75 OHM +-5% 1/8W	1	PCS
R8	61L0805750	CHIPR 75 OHM +-5% 1/8W	1	PCS
C17	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C18	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C11	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C16	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C3	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C6	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C7	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C9	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C14	65L0805221 32	CHIP 220PF 50V X7R 0805	1	PCS
C15	65L0805221 32	CHIP 220PF 50V X7R 0805	1	PCS
D1	93L 39147	TZMC5V6-GS08	1	PCS
	AIC990KSAE2	MAIN BOARD FOR T990K*	1	PCS
CN501	33L3802 9H	WAFER 9P RIGHT ANELE PI	1	PCS
CN201	33L801724A H	PIN HEADER 24P 2.0mm	1	PCS
CN502	33L8022 12 H	PIN HEADER FEMALE 2*6 9	1	PCS
	40L 457624 1B	CPU LABEL	1	PCS
	40L 45762412B	CBPC LABEL	1	PCS
U502	56L1125137 F1	W78E65P-40	1	PCS
C512	67L 309471 3T	470UF +-20% 16V	1	PCS
C922	67L 309471 3T	470UF +-20% 16V	1	PCS
C925	67L 309471 3T	470UF +-20% 16V	1	PCS
C901	67L305L331 6	330UF +-20% 35V	1	PCS
C904	67L305L331 6	330UF +-20% 35V	1	PCS
C905	67L305L331 6	330UF +-20% 35V	1	PCS
LP901	71L 55 28	FERRITE BEAD 7.62*5.08*	1	PCS
L901	73L 253127 L	CC-010730	1	PCS

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L502	73L 259 4	200UH +/-5%	1	PCS
CN901	88L 3041CE	DC JACK	1	PCS
CN301	88L 35315FHAS	D-SUB 15PIN	1	PCS
CN302	88L 35424F HS	DVID CONN 24P	1	PCS
X501	93L 22 45 J	24MHZ/30PF/49US	1	PCS
X600	93L 22 45 J	24MHZ/30PF/49US	1	PCS
CN503	95L8014 6 9	HARNESS	1	PCS
U501	56L1133 56	M24C16-WMN6T/W SO-8	1	PCS
U201	56L 561 8	THC63LVDM83R	1	PCS
U202	56L 561 8	THC63LVDM83R	1	PCS
U600	56L 562 9	GM5020BE	1	PCS
U904	56L 563 7	AIC1084-33CM	1	PCS
U901	56L 563 11	SI-8050SD	1	PCS
U905	56L 563 9A	PA1084KA	1	PCS
U203	56L 566 6	SI9953DY-T1	1	PCS
U906	56L 566 6	SI9953DY-T1	1	PCS
U903	56L 585 4	AIC1117-33CY	1	PCS
U902	56L 585 5A	AP1117E25A	1	PCS
U801	56L 615 5	IS42S16100A1	1	PCS
U802	56L 615 5	IS42S16100A1	1	PCS
U803	56L 615 5	IS42S16100A1	1	PCS
U302	56L1133 16	24LC21A/SN	1	PCS
U301	56L1133 20	AT24C02N-10SI	1	PCS
Q201	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q501	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q502	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q503	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q901	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q902	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
RP502	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP503	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP506	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP507	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP801	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP802	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP803	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP804	61L 125103 8	CHIP AR 8P4R 10KOHM +-5	1	PCS
RP501	61L 125330 8	CHIP AR 894R 33OHM +-5%	1	PCS
RP504	61L 125331 8	1/16W,8P4R,330OHM	1	PCS
RP505	61L 125331 8	1/16W,8P4R,330OHM	1	PCS
JP202	61L0603000	CHIPR 0OHM +-5% 1/10W	1	PCS

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JP802	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP804	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP806	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP808	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP810	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP812	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP814	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP818	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP820	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP822	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP824	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
JP826	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R325	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R327	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R329	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R330	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R332	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R334	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R527	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R909	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R910	61L0603000	CHIPR 00HM +-5% 1/10W	1	PCS
R302	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R303	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R304	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R305	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R306	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R307	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R313	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R314	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R315	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R316	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R319	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R320	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R323	61L0603101	CHIPR 100 OHM +-5% 1/10	1	PCS
R337	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	PCS
R521	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	PCS
R601	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	PCS
JP801	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP803	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP805	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP807	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS

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JP809	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP815	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP817	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP819	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP821	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP825	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
JP827	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R201	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R301	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R326	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R338	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R501	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R502	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R503	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R504	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R509	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R510	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R514	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R515	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R516	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R519	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R532	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R603	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R904	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R905	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R906	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R902	61L0603151	CHIPR 150 OHM +-5% 1/10	1	PCS
R903	61L0603151	CHIPR 150 OHM +-5% 1/10	1	PCS
R531	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	PCS
R505	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R506	61L0603330	CHIPR 33 OHM +-5% 1/10W	1	PCS
R507	61L0603470	CHIPR 47 OHM +-5% 1/10W	1	PCS
R508	61L0603470	CHIPR 47 OHM +-5% 1/10W	1	PCS
R202	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	PCS
R520	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	PCS
R907	61L0603472	CHIPR 4.7K OHM +-5% 1/1	1	PCS
R311	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R312	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R321	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R322	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R317	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS

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R318	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS
R522	61L0603621	CHIPR 620 OHM+-5% 1/10W	1	PCS
R308	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	PCS
R309	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	PCS
R310	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	PCS
R801	61L0603750	CHIPR 75 OHM+-5% 1/10W	1	PCS
C312	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C313	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C514	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C515	65L0603101 32	100PF +-10% 50V X7R	1	PCS
C202	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C208	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C209	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C215	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C216	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C218	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C220	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C221	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C311	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C509	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C511	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C517	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C518	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C519	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C520	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C521	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C522	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C523	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C824	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C902	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C903	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C906	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C907	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C909	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C911	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C913	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C915	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C917	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C921	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C923	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C924	65L0603102 32	1000PF +-10% 50V X7R	1	PCS

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C927	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C928	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C929	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C930	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C931	65L0603102 32	1000PF +-10% 50V X7R	1	PCS
C301	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C302	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C303	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C304	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C305	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C306	65L0603103 32	0.01UF+-10% 50V X7R	1	PCS
C203	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C204	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C205	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C206	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C210	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C211	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C212	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C213	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C307	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C308	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C314	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C502	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C600	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C601	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C602	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C603	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C604	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C605	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C606	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C607	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C608	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C609	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C610	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C611	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C612	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C613	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C614	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C615	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C616	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS
C617	65L0603104 12	0.1UF +-10% 16V X7R	1	PCS

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C618	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C621	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C622	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C623	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C624	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C625	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C626	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C627	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C628	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C629	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C630	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C631	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C632	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C633	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C634	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C635	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C636	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C638	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C639	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C640	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C641	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C642	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C643	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C644	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C645	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C647	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C648	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C649	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C650	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C651	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C652	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C653	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C654	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C655	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C656	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C658	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C659	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C660	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C661	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C662	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C663	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS

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C664	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C665	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C802	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C803	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C804	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C805	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C806	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C807	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C809	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C810	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C811	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C812	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C813	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C814	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C816	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C817	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C818	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C819	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C820	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C821	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C919	65L0603104 12	0.1UF +/-10% 16V X7R	1	PCS
C503	65L0603220 31	CHIP 22PF 50V NPO	1	PCS
C504	65L0603220 31	CHIP 22PF 50V NPO	1	PCS
C671	65L0603220 31	CHIP 22PF 50V NPO	1	PCS
C672	65L0603220 31	CHIP 22PF 50V NPO	1	PCS
C309	65L0603470 31	CHIP 47PF 50V NPO	1	PCS
C310	65L0603470 31	CHIP 47PF 50V NPO	1	PCS
C822	65L0603470 31	CHIP 47PF 50V NPO	1	PCS
CP501	65L600M102 8T	1000PF+/-20% 50V 8P X7R	1	PCS
CP502	65L600M102 8T	1000PF+/-20% 50V 8P X7R	1	PCS
C201	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C219	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C510	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C908	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C910	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C912	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C914	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C916	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C918	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C920	67L 312101 3	SMD 100UF +/-20% 16V	1	PCS
C207	67L 312220 3	SMD 22UF +/-20% 16V	1	PCS

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C214	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C217	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C501	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C505	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C508	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C619	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C620	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C666	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C667	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C668	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C801	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C808	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C815	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
C926	67L 312220 3	SMD 22UF +-20% 16V	1	PCS
L201	71L 57G601	TI3216JIG601-T17A	1	PCS
L206	71L 57G601	TI3216JIG601-T17A	1	PCS
L801	71L 57G601	TI3216JIG601-T17A	1	PCS
L902	71L 57G601	TI3216JIG601-T17A	1	PCS
L903	71L 57G601	TI3216JIG601-T17A	1	PCS
L904	71L 57G601	TI3216JIG601-T17A	1	PCS
L905	71L 57G601	TI3216JIG601-T17A	1	PCS
L202	71L 59C121 B	FCM1608C-121T03 SMD	1	PCS
L203	71L 59C121 B	FCM1608C-121T03 SMD	1	PCS
L204	71L 59C121 B	FCM1608C-121T03 SMD	1	PCS
L205	71L 59C121 B	FCM1608C-121T03 SMD	1	PCS
U502	87L 202 44	PLCC SMT CONN PD41C-441	1	PCS
D303	93L 39147	TZMC5V6-GS08	1	PCS
D304	93L 39147	TZMC5V6-GS08	1	PCS
D305	93L 39147	TZMC5V6-GS08	1	PCS
D306	93L 39147	TZMC5V6-GS08	1	PCS
D307	93L 39147	TZMC5V6-GS08	1	PCS
D308	93L 39147	TZMC5V6-GS08	1	PCS
D309	93L 39147	TZMC5V6-GS08	1	PCS
D901	93L 60211	SMB340 BY FULL POWER	1	PCS
D301	93L 60230	BAT54C(L43)	1	PCS
D302	93L 60230	BAT54C(L43)	1	PCS
D501	93L 6432V	LL4148-GS08	1	PCS
D310	93L 6433P	BAV99	1	PCS
D311	93L 6433P	BAV99	1	PCS
D312	93L 6433P	BAV99	1	PCS
	715L 974 1 S	LCD 19"SANGSUNG PANEL M	1	PCS

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L1	73G 253138 L1	CHOKE COIL	1	PCS
L2	73G 253138 L1	CHOKE COIL	1	PCS
	INPC9425A3SMT	DC TOAC INV OF SAMSUNG	1	PCS
CON1	33L800912G H	2*6 PIN DUAL ROW RIGHT	1	PCS
CON2	33L8021 2D AC	CONN.2P R/A 87210-0236	1	PCS
CON3	33L8021 2D AC	CONN.2P R/A 87210-0236	1	PCS
CON4	33L8021 2D AC	CONN.2P R/A 87210-0236	1	PCS
CON5	33L8021 2D AC	CONN.2P R/A 87210-0236	1	PCS
LABEL	40L 45762412B	CBPC LABEL	1.03	PCS
	51L 6 4503	RTV 濺	1	G
C19	64L179J1841AT	MKT CAP. 0.18UF+-5% 100	1	PCS
C5	64L179J1841AT	MKT CAP. 0.18UF+-5% 100	1	PCS
C20	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C21	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C6	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C7	65L 3J2206ET	22PF 5% 3KV TDK	1	PCS
C1	67L215C151 4H	LOW ESR 150UF 25V 8*7MM	1	PCS
C2	67L215C151 4H	LOW ESR 150UF 25V 8*7MM	1	PCS
T1	80LL19T500 W1	TRANS EPC19 WEI HWA	1	PCS
T2	80LL19T500 W1	TRANS EPC19 WEI HWA	1	PCS
IC1	56L 622 1	BA9741F-SMT	1	PCS
Q3	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q9	57L 417 4	PMBS3904/PHILIPS-SMT(04	1	PCS
Q10	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS
Q4	57L 417 6	PMBS3906/PHILIPS-SMT(06	1	PCS
Q2	57L 760 4B	PDTA144WK SOT 346	1	PCS
Q1	57L 760 5B	PDTC144WK SOT346	1	PCS
Q11	57L 761 2	2SC5706-TL-SMT	1	PCS
Q12	57L 761 2	2SC5706-TL-SMT	1	PCS
Q6	57L 761 2	2SC5706-TL-SMT	1	PCS
Q7	57L 761 2	2SC5706-TL-SMT	1	PCS
Q5	57L 763 3	AO4411 SO-8 BY AOS SMT	1	PCS
Q8	57L 763 3	AO4411 SO-8 BY AOS SMT	1	PCS
R17	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	PCS
R8	61L0603102	CHIPR 1K OHM +-5% 1/10W	1	PCS
R7	61L0603103	CHIPR 10K OHM +-5% 1/10	1	PCS
R39	61L0603104	CHIPR 100K OHM +-5% 1/1	1	PCS
R30	61L0603123	CHIP 12K OHM 1/10W	1	PCS
R4	61L0603123	CHIP 12K OHM 1/10W	1	PCS
R16	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	PCS
R18	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	PCS

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R20	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	PCS
R22	61L0603153	CHIPR 15KOHM+-5% 1/10W	1	PCS
R12	61L0603183	CHIP 18K OHM 1/10W	1	PCS
R35	61L0603183	CHIP 18K OHM 1/10W	1	PCS
R2	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	PCS
R28	61L0603221	CHIPR 220 OHM+-5% 1/10W	1	PCS
R1	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R27	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R29	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R3	61L0603392	CHIP 3.9K OHM 1/10W	1	PCS
R10	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R26	61L0603471	CHIPR 470 OHM+-5% 1/10W	1	PCS
R19	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R21	61L0603473	CHIP 47K OHM 1/10W	1	PCS
R14	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS
R23	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS
R37	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS
R9	61L0603511	CHIPR 510 OHM+-5% 1/10W	1	PCS
R11	61L0603513	CHIP 51K OHM 1/10W	1	PCS
R34	61L0603513	CHIP 51K OHM 1/10W	1	PCS
R25	61L0603562	CHIP 5.6K OHM 1/10W	1	PCS
R13	61L0603621	CHIPR 620 OHM+-5% 1/10W	1	PCS
R36	61L0603621	CHIPR 620 OHM+-5% 1/10W	1	PCS
R15	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R31	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R32	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R33	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R40	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R41	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R42	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R43	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R5	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
R6	61L1206102	CHIP 1K OHM 5% 1/4W	1	PCS
C12	65L0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C13	65L0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C17	65L0603104 32	CHIP 0.1UF 50V X7R	1	PCS
C10	65L0603105 17	1UF 16V Y5V	1	PCS
C11	65L0603105 17	1UF 16V Y5V	1	PCS
C15	65L0603105 17	1UF 16V Y5V	1	PCS
C18	65L0603105 17	1UF 16V Y5V	1	PCS
C23	65L0603105 17	1UF 16V Y5V	1	PCS

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C24	65L0603105 17	1UF 16V Y5V	1	PCS
C4	65L0603105 17	1UF 16V Y5V	1	PCS
C8	65L0603105 17	1UF 16V Y5V	1	PCS
C9	65L0603105 17	1UF 16V Y5V	1	PCS
C16	65L0805102 32	CHIP 1000P 50VX7R 0805	1	PCS
C3	65L0805104 32	CHIP 0.1UF 50V X7R	1	PCS
C14	67L 312229 7	SMD 2.2UF +-20% 50V	1	PCS
D7	93L 6432V	LL4148-GS08	1	PCS
D8	93L 6432V	LL4148-GS08	1	PCS
D5	93L 6433P	BAV99	1	PCS
D6	93L 6433P	BAV99	1	PCS
D3	93L 39S 3 T	BZT52-C11	1	PCS
D4	93L 39S 3 T	BZT52-C11	1	PCS
D2	93L2004 2A	SM240A DO-214AC	1	PCS
D1	93L3004 2	SR34 PAN JIT	1	PCS
PCB	715L1044 1B	INVERTER PCB	1	PCS
	AIK991KA1SMT	KEY BOARD FOR AI	1	PCS
	44L3231 20	EVA (50X10X4.5T)	1	PCS
	95L8014 9 25	HARNESS	1	PCS
SW101	77L 604 1 TO	CHIP TACT SW	1	PCS
SW102	77L 604 1 TO	CHIP TACT SW	1	PCS
SW103	77L 604 1 TO	CHIP TACT SW	1	PCS
SW104	77L 604 1 TO	CHIP TACT SW	1	PCS
SW105	77L 604 1 TO	CHIP TACT SW	1	PCS
DP101	81L 14 2 BH	BL-HY0G034B-TR	1	PCS
	715L 981 1	"L901 19" LCD KEY BOARD	1	PCS
	15L5782 1	SPEAKER BRACKET	2	PCS
	33L4499 1	LENS	1	PCS
	33L4513 U2 L	VR COVER	1	PCS
	34L1019GD5 2L	FRONT PANEL	1	PCS
	34L1022 U2 L	STAND-F(SPK)	1	PCS
	34L1023 U2 L	STAND B	1	PCS
	34L1024 U2 L	BASE	1	PCS
	37L 461 1	"19""LCD HINGE"	1	PCS
	Q1L 340 12128	SCREW	4	PCS
	Q1L 930 16120	SCREW(3X16)	4	PCS
	Q1L1030 6128	SCREW	2	PCS
	Q1L1030 8128	SCREW	6	PCS
	Q1L1830 8120	SCREW(3X8)	2	PCS
	W33L4497 D5 L	SIDE COVER(KEY)	1	PCS
	W33L4498 D5 L	SIDE COVER	1	PCS

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