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COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CL-42

FACTORY MODEL: LB800K

MODEL: FLATRON L1810B(LB800K-VL)

*() ID LABEL MODEL No.

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT Color LCD Module
Size	: 18.1inch(45.974cm diagonal)
Pixel Pitch	: 0.2805(H) x 0.2805(V)
Color Depth	: 8-bit, 16,777,216 colors
Electrical Interface	: LVDS
Surface Treatment	: Anti-Glare, Hard Coating(3H)
Operating Mode	: Normally Black
Backlight Unit	: Six-CCFL (Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left	: -60° min., -80°(Typ)
Right	: +60° min., +80°(Typ)
Top	: +60° min., +80°(Typ)
Bottom	: -60° min., -80°(Typ)

2-2. Luminance : 200(min), 250(Typ)

2-3. Contrast Ratio : 200(min), 350(Typ)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

• Type	: Separate, Composite, SOG (Sync On Green) Digital
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3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.71 V
a) Color 0, 0	: 0 Vp-p
b) Color 7, 0	: 0.467 Vp-p
c) Color 15, 0	: 0.714 Vp-p
3) Input Impedance	: 75 Ω

3-3. Operating Frequency

Horizontal	: 30 ~ 83kHz
Vertical	: 56 ~ 75Hz

4. MAX. RESOLUTION

Analog	: 1280 x 1024@75Hz
DVI Analog/Digital	: 1280 x 1024@60Hz

5. POWER SUPPLY

5-1. Power Adaptor(Built-in Power)

Input : AC 100~240V, 50/60Hz, 1.0A

5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 53 W	GREEN
STAND-BY	OFF/ON	OFF	less than 3 W	AMBER
SUSPEND	ON/OFF	OFF	less than 3 W	AMBER
OFF	OFF/OFF	OFF	less than 3 W	AMBER
POWER OFF	-	-	less than 1 W	OFF

6. ENVIRONMENT

6-1. Operating Temperature: 10°C~35°C (50°F~95°F)
(Ambient)

6-2. Relative Humidity : 10%~80%
(Non-condensing)

6-3. MTBF : 50,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

Width	: 406 mm (15.98")
Depth	: 223 mm (8.77")
Height	: 427 mm (16.81")

8. WEIGHT (with TILT/SWIVEL)

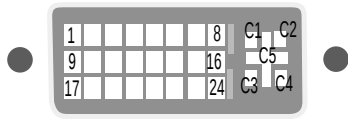
Net. Weight	: 7.8kg (17.19 lbs)
Gross Weight	: 10.0kg (22.04 lbs)

9. USB

Upstream : 1 port, Downstream : 2 port
Speed : Full-12Mbps, Low-1.5Mbps

Signal Connector Pin Assignment

• DVI-I Connector (Digital/Analog)



Pin	Signal (DVI-I)
1	T. M. D. S. Data2-
2	T. M. D. S. Data2+
3	T. M. D. S. Data2/4 Shield
4	T. M. D. S. Data4-
5	T. M. D. S. Data4+
6	DDC Clock
7	DDC Data
8	Analog Vertical Sync.
9	T. M. D. S. Data1-
10	T. M. D. S. Data1+
11	T. M. D. S. Data1/3 Shield
12	T. M. D. S. Data3-
13	T. M. D. S. Data3+
14	+5V Power
15	Ground (return for +5V, H. Sync. and V. Sync.)

Pin	Signal (DVI-I)
16	Hot Plug Detect
17	T. M. D. S. Data0-
18	T. M. D. S. Data0+
19	T. M. D. S. Data0/5 Shield
20	T. M. D. S. Data5-
21	T. M. D. S. Data5+
22	T. M. D. S. Clock Shield
23	T. M. D. S. Clock+
24	T. M. D. S. Clock-
C1	Analog Red
C2	Analog Green
C3	Analog Blue
C4	Analog H. Sync.
C5	Analog Ground

T. M. D. S. (Transition Minimized Differential Signaling)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. ***These parts are marked  on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

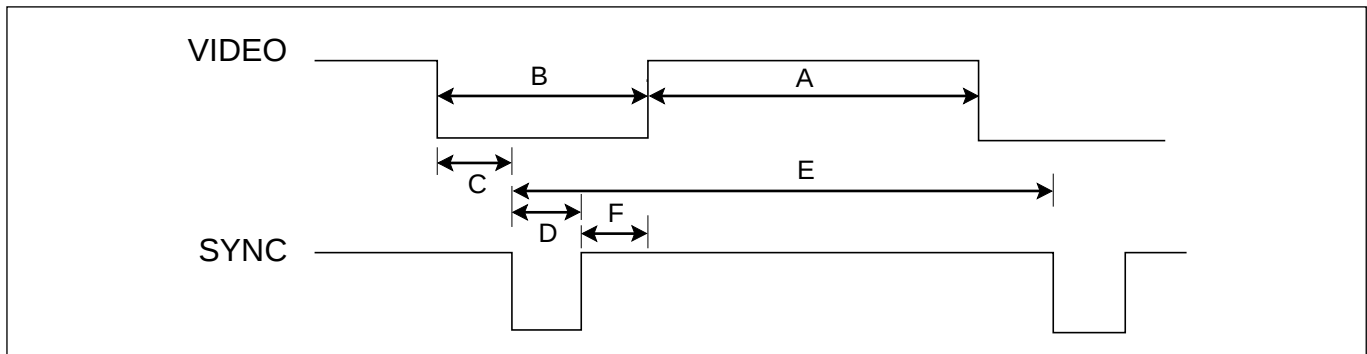
TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

CAUTION

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

TIMING CHART

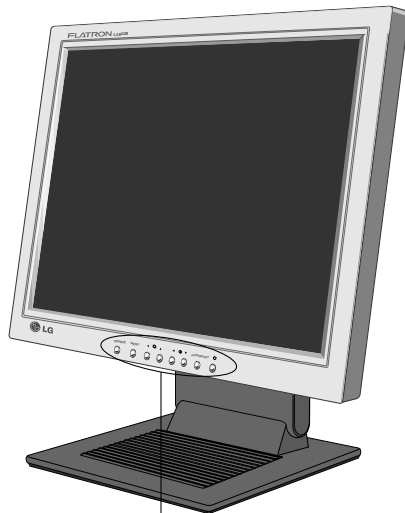


<< Dot Clock (MHz), Horizontal Frequency (kHz), Vertical Frequency (Hz), Horizontal etc... (μs), Vertical etc... (ms) >>

Mode	H/V Sort	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H	+	25.175	31.469	800	640	16	96	48	640x350 70Hz
	V	-		70.8	449	350	37	2	60	
2	H	-	28.321	31.468	900	720	18	108	54	720x400 70Hz
	V	+		70.09	449	400	12	2	35	
3	H	-	25.175	31.469	800	640	16	96	48	640x480 60Hz
	V	-		59.94	525	480	10	2	33	
4	H	-	31.5	37.5	840	640	16	64	120	640x480 75Hz
	V	-		75	500	480	1	3	16	
5	H	+	40.0	37.879	1056	800	40	128	88	800x600 60Hz
	V	+		60.317	628	600	1	4	23	
6	H	+	49.5	46.875	1056	800	16	80	160	800x600 75Hz
	V	+		75.0	625	600	1	3	21	
7	H	+/-	57.283	49.725	1152	832	32	64	224	832x624 75Hz
	V	+/-		74.55	667	624	1	3	39	
8	H	-	65.0	48.363	1344	1024	24	136	160	1024x768 60Hz
	V	-		60.0	806	768	3	6	29	
9	H	-	78.75	60.123	1312	1024	16	96	176	1024x768 75Hz
	V	-		75.029	800	768	1	3	28	
10	H	+/-	100.0	68.681	1456	1152	32	128	144	1152x900 75Hz
	V	+/-		75.062	915	870	3	3	39	
11	H	+/-	92.978	61.805	1504	1152	18	134	200	1152x900 65Hz
	V	+/-		65.96	937	900	2	4	31	
12	H	+	108.0	63.981	1688	1280	48	112	248	1280x1024 60Hz
	V	+		60.02	1066	1024	1	3	38	
13	H	+	135.0	79.976	1688	1280	16	144	248	1280x1024 75Hz
	V	+		75.035	1066	1024	1	3	38	

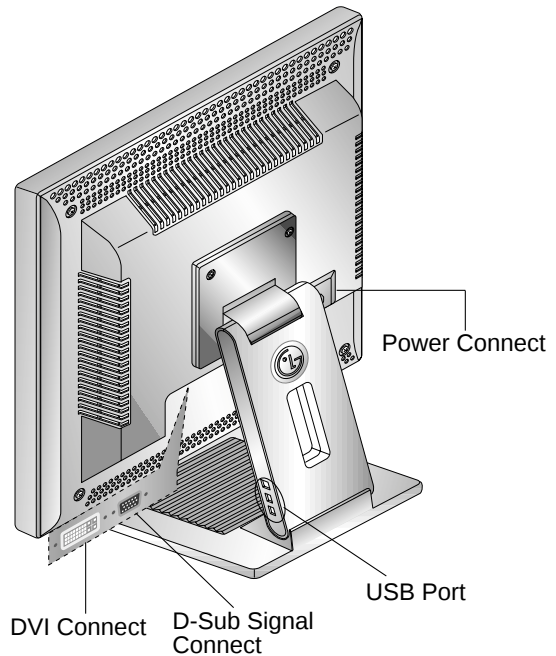
OPERATING INSTRUCTIONS

FRONT VIEW

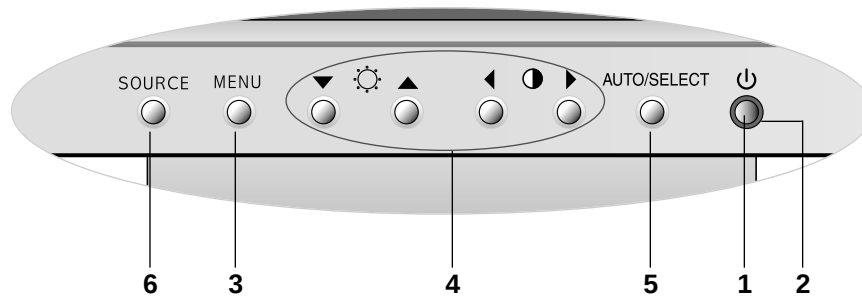


Front Control Panel

REAR VIEW



Front Control Panel



1. Power ON/OFF Button

Use this button to turn the monitor on or off.

2. Power Indicator

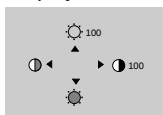
This indicator lights up green when the monitor operates normally. If the display is in DPM(Energy Saving)mode, this indicator color change to amber.

3. MENU Button

Use these buttons to enter or exit the On Screen Display.

4. ▼ ▲ Button

Use these buttons to choose or adjust items in the On Screen Display.

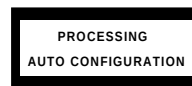


Bring up Contrast and Brightness adjustment.

5. AUTO/SELECT Button

Use this button to enter a selection in the On Screen Display.

*AUTO adjustment function



When adjusting your display settings, always press the **AUTO/SELECT** button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).

The best display mode is **1280x1024/60Hz**.

6. SOURCE Button

Use this button to make Dsub or DVI connector active.

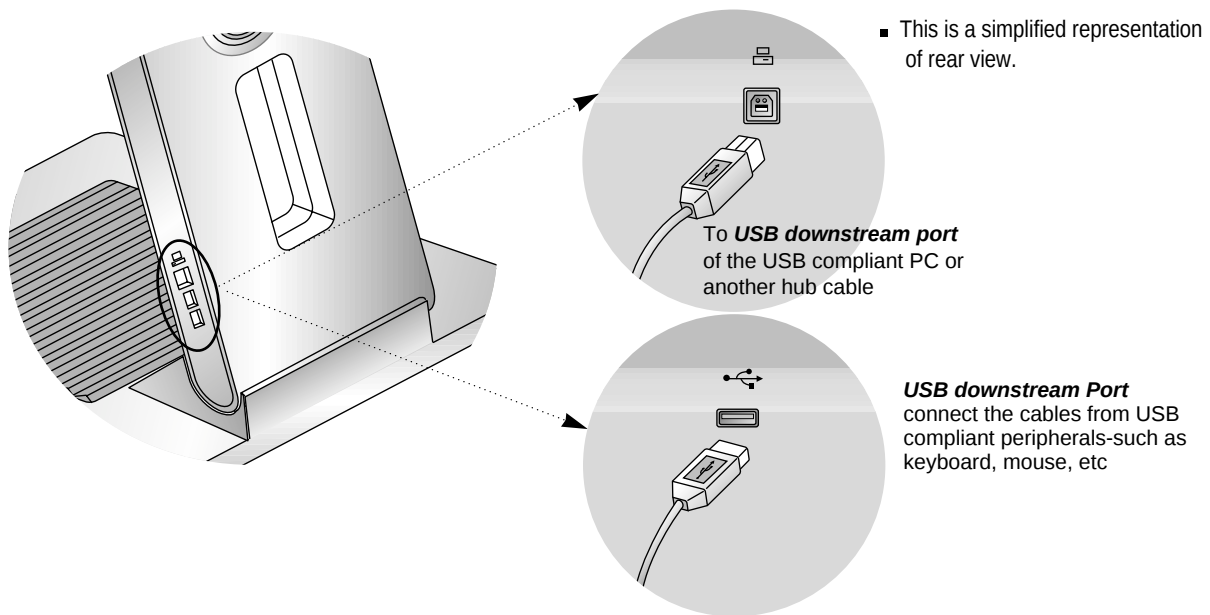
This feature is used when two computers are connected to the monitor. The default setting is Dsub.

Making use of USB (Universal Serial Bus)*

USB (Universal Serial Bus) is an innovation in connecting your different desktop peripherals conveniently to your computer. By using the USB, you will be able to connect your mouse, keyboard, and other to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. USB allows you to connect chain up to 120 devices on a single USB port, and you can “hot” plug (attach them while the computer is running) or unplug them while maintaining Plug and Plug auto detection and configuration. This monitor has an integrated BUS-powered USB hub, allowing up to 2 other USB devices to be attached it.

USB connection

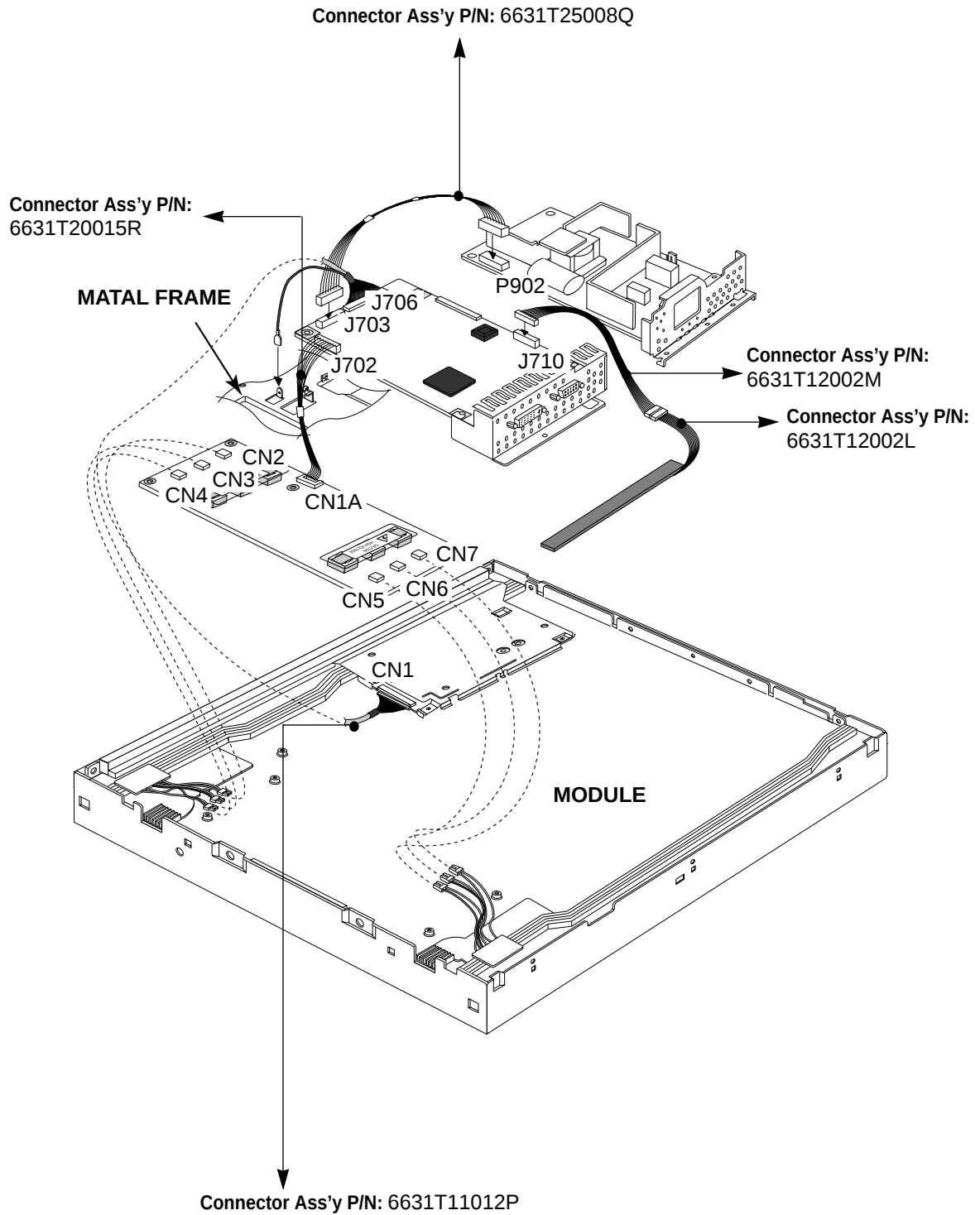
1. Connect the upstream port of the Display to the downstream port of the USB compliant PC or another hub using the USB cable. (Computer must have a USB port)
2. Connect the USB compliant peripherals to the downstream ports of the monitor.



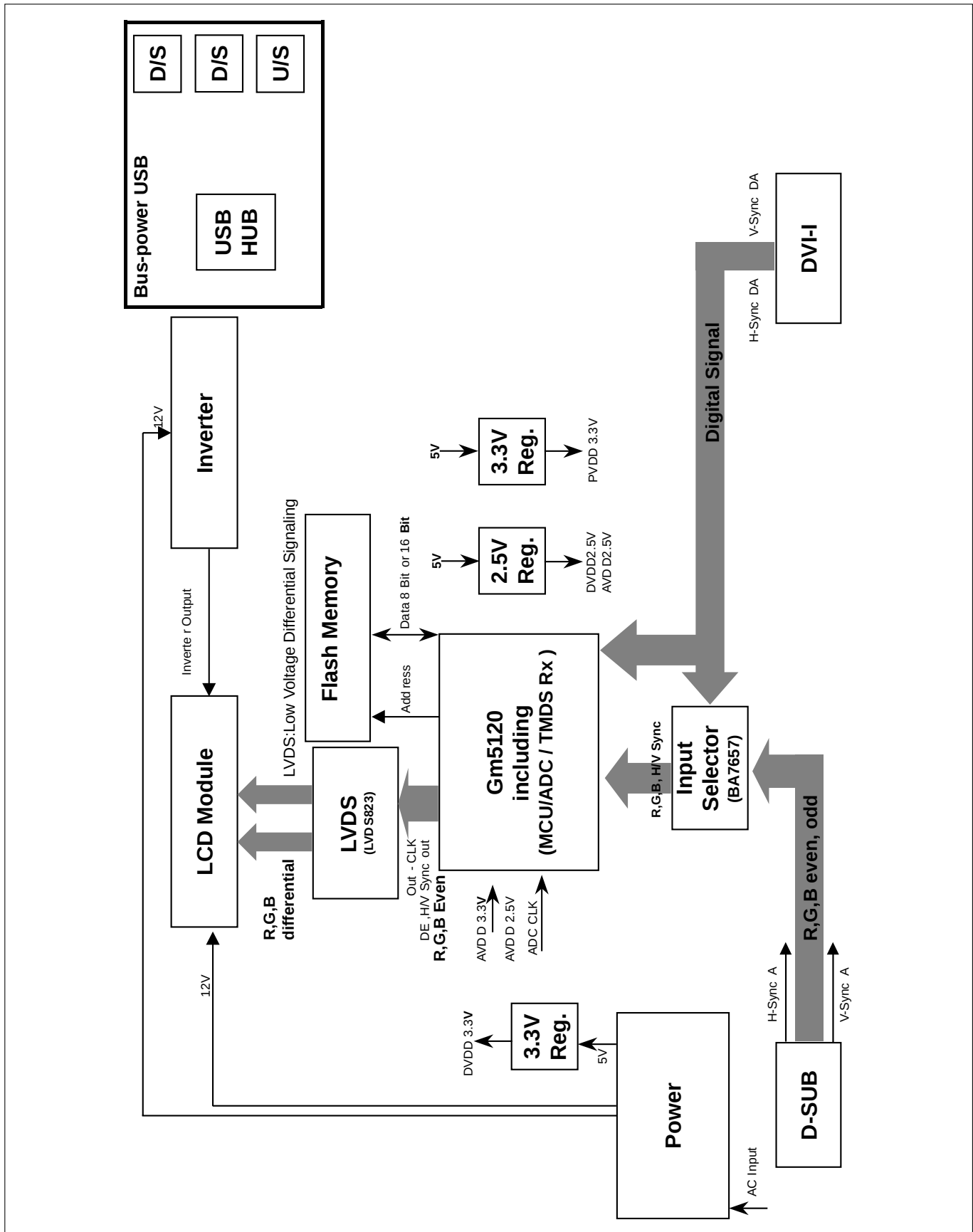
NOTE

- To activate the USB hub function, the monitor must be connected to a USB compliant PC(OS) or another hub with the USB cable(enclosed).
- When connecting the USB cable, check that the shape of the connector at the cable side matches the shape at the connecting side.
- Even if the monitor is in a power saving mode, USB compliant devices will function when they are connected the USB ports(both the upstream and downstream) of the monitor.

WIRING DIAGRAM



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Input signal switching part.

There are two inputs which are analog and digital input.
They come from each 15 pin D-Sub and 24 pin DVI-D connector.

2. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixelclock.
The pixel clock for each mode is generated by the PLL.
The range of the pixel clock is from 25MHz to 135MHz.

This part consists of the Scaler, Flash-ROM IC which stores program data, Reset IC.
The Scaler gets the video signal converted analog to digital, interpolates input to 1280 X 1024 resolution signal and outputs R, G, B signal to transmitter.

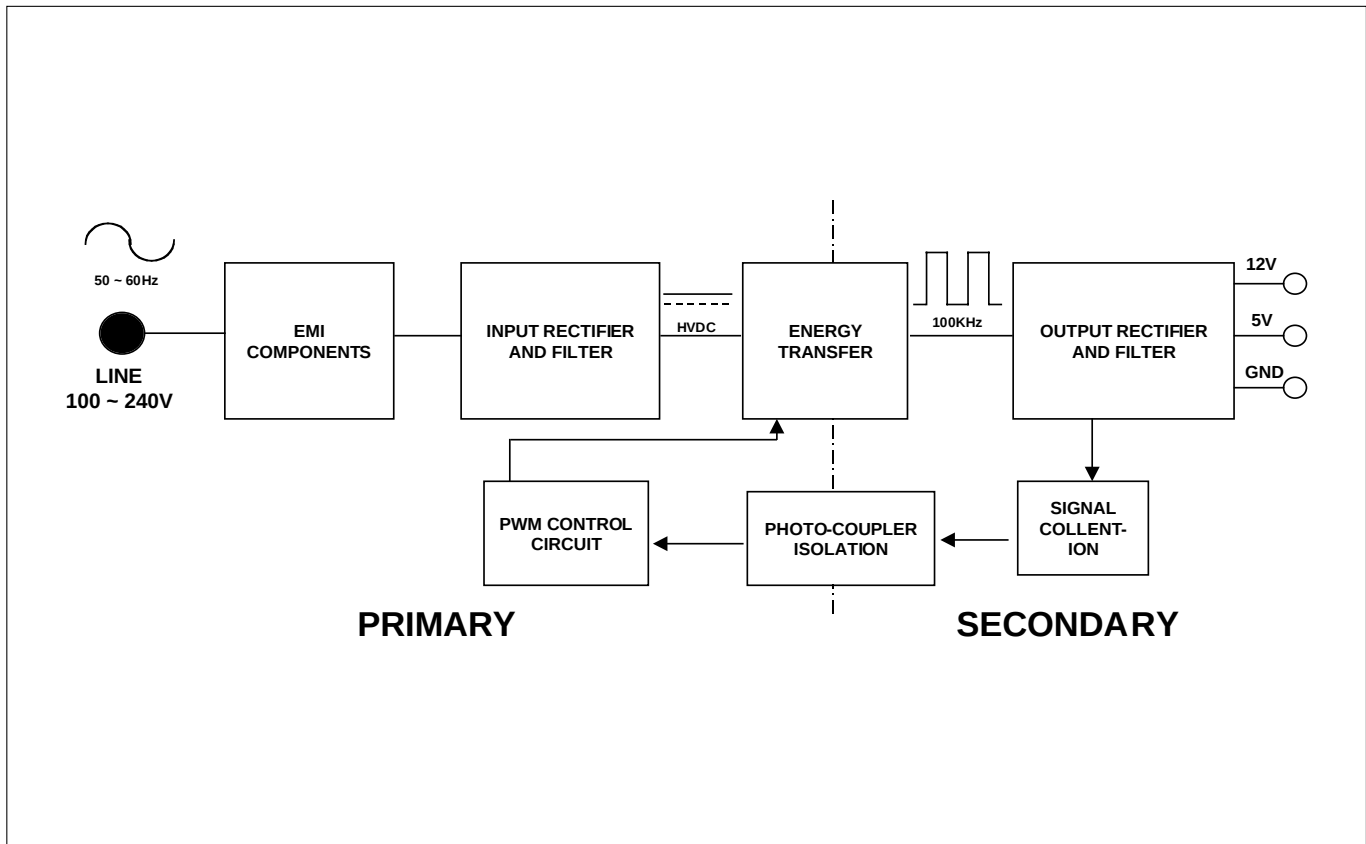
The controlled data of each modes and user setting is stored in EEPROM
Especially Micom/pre-amp / ADC / Video controller are merged to one chip 'Gm5120' by Genesis.

3. Display Data Transmitter Part.

This part transmit digital signal from the Scaler to the receiver of module.

4. Power Part.

This part consists of the one 5V, two 3.3V and one 2.5 regulators to convert power which is provided 12V, 5V in LIPS Board.
5V is provided for LCD Panel.
Also, 5V is converted 3.3V and 2.5V by regulator. Converted power is provided for IC in the main board.



Operation description_Power

1. EMI components.

This part contains of EMI components to comply with global marketing EMI standards like FCC, VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.

This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.

This part function is transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.

This part function is to make a pulse width modulation control and to provide the driver signal to power switch, to adjust the duty cycle during different AC input and output loading condition to achieve the dc output stabilize, and also the over power protection is also monitor by this part.

5. Photo-Coupler isolation.

This part function is to feed back the dc output changing status through a photo transistor to primary controller to achieve the stabilized dc output voltage.

6. Signal collection.

This part function is to collect the any change from the dc output and feed back to the primary through photo transistor

ADJUSTMENT

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several minor adjustment may be required. Adjustment should be following procedure and after warming up for a minimum of 10 minutes.

- Alignment appliances and tools.
 - IBM compatible PC
 - Programmable Signal Generator. (eg. VG-819 made by Astrodesign Co.)
 - E(E)PROM with each mode data saved.

1. Adjustment Start

- 1) Display any pattern at any Mode.
- 2) Run alignment program for LB800K on the IBM compatible PC.
- 3) Select INIT → Initialize command and Enter
- 4) This will make all data to default state
- 5) Select COLOR → PRESET START command and Enter

2. Adjustment for Factory Preset Mode

- 1) Select DIST. ADJ → FOS DEFAULT command and Enter
- 2) It will copy all factory default data to EEPROM automatically.

3. Adjustment for White Balance

- 1) Display color 0,0 pattern at Mode 15.
- 2) Select COLOR → BIAS CALIBRATION command and Enter.
- 3) No attempt to manually adjust, BIAS data is automatically adjusted and saved to the EEPROM.
- 4) Display color 15,0 pattern at Mode 15.
- 5) Select GAIN CALIBRATION command and Enter.
- 6) 6500K and 9300K are automatically adjusted and saved to the EEPROM.
- 7) Select COLOR → PRESET END command and Enter.

4. Adjustment for EDID

- 1) Use this procedure only when there is some problem on EDID data.
- 2) Connect the D-sub cable.
- 3) Select EDID → Write EDID[A0] command and Enter.
- 4) Select DDC(A) Write command and Enter.
- 5) Connect the DVI-I cable.
- 6) Select DDC(D) Write command and Enter.

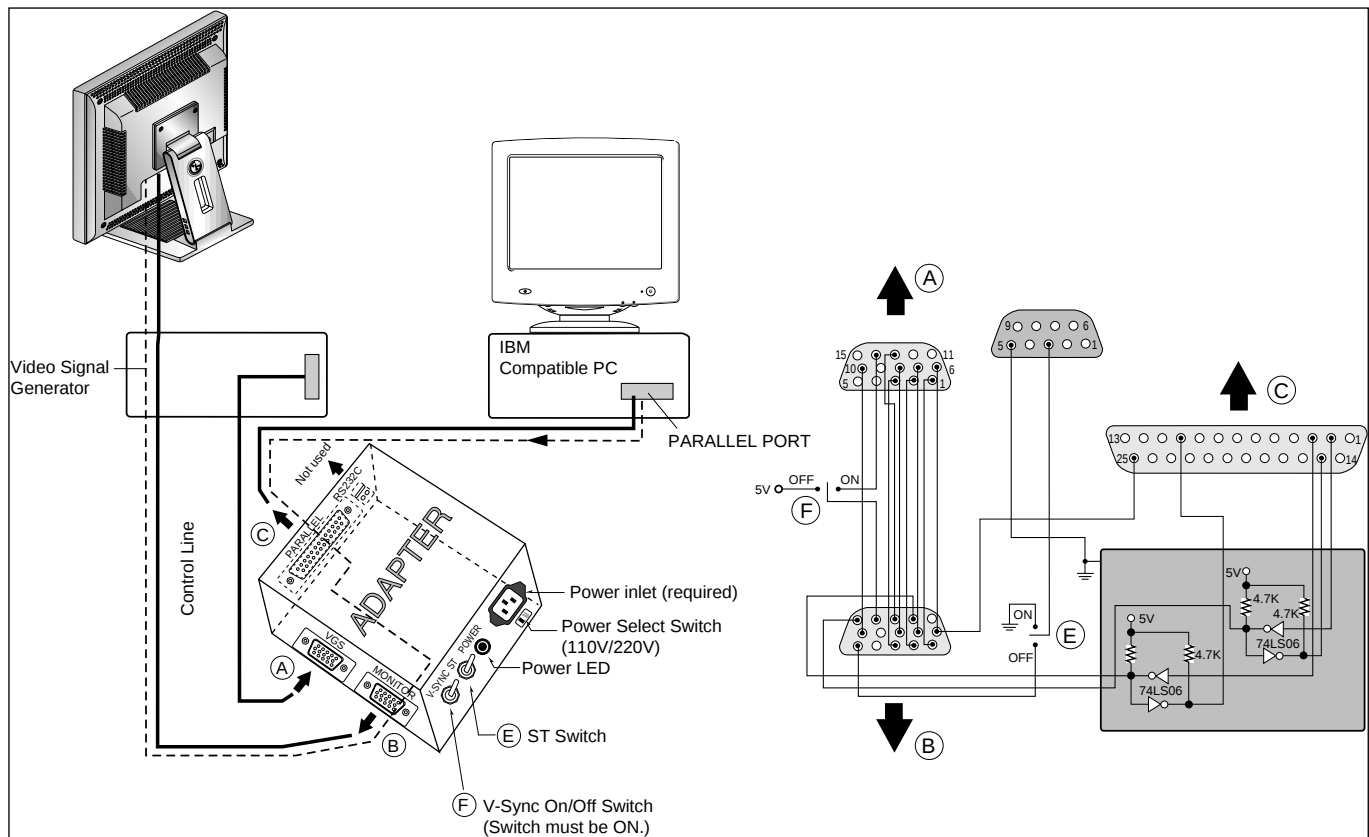
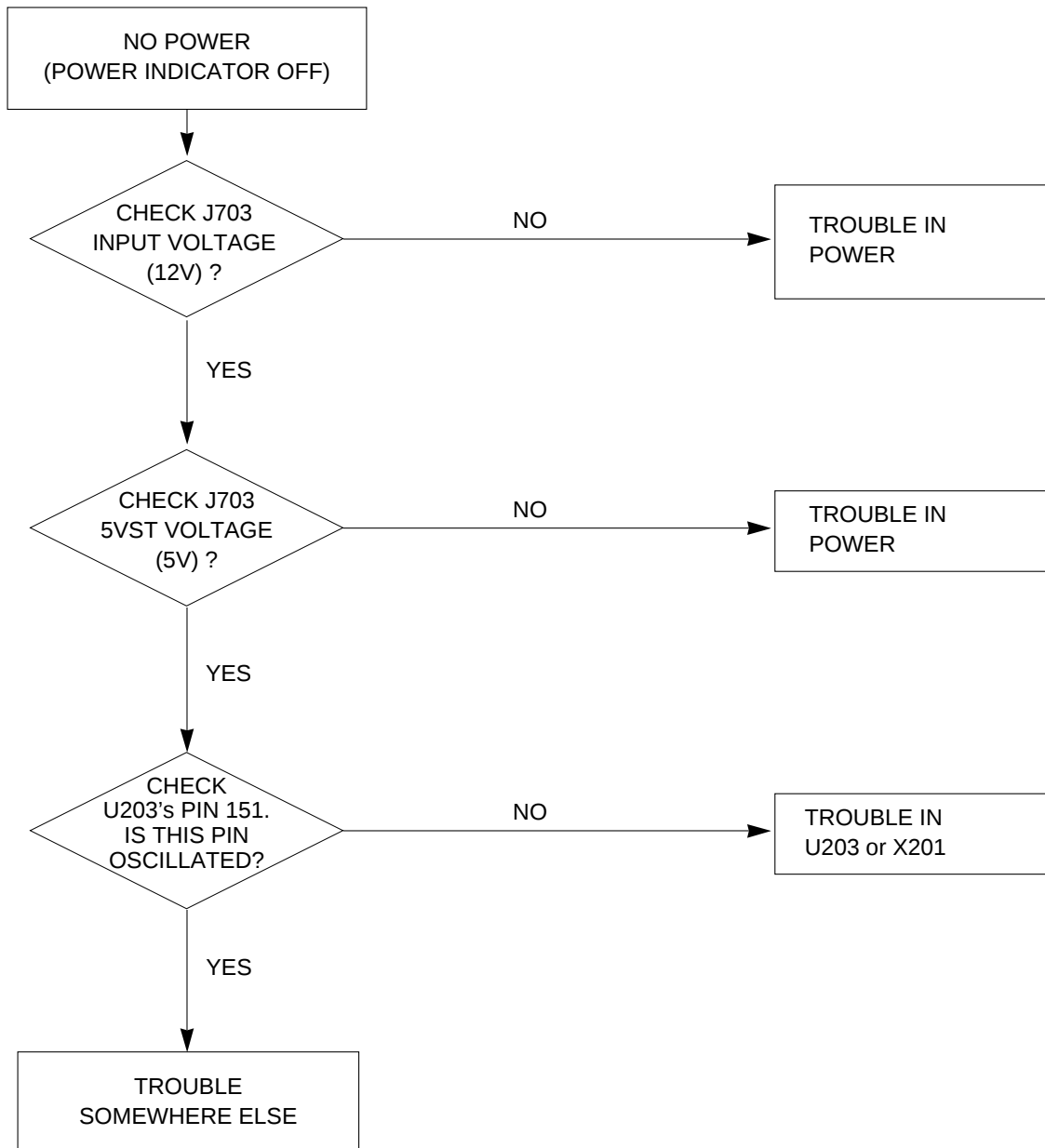


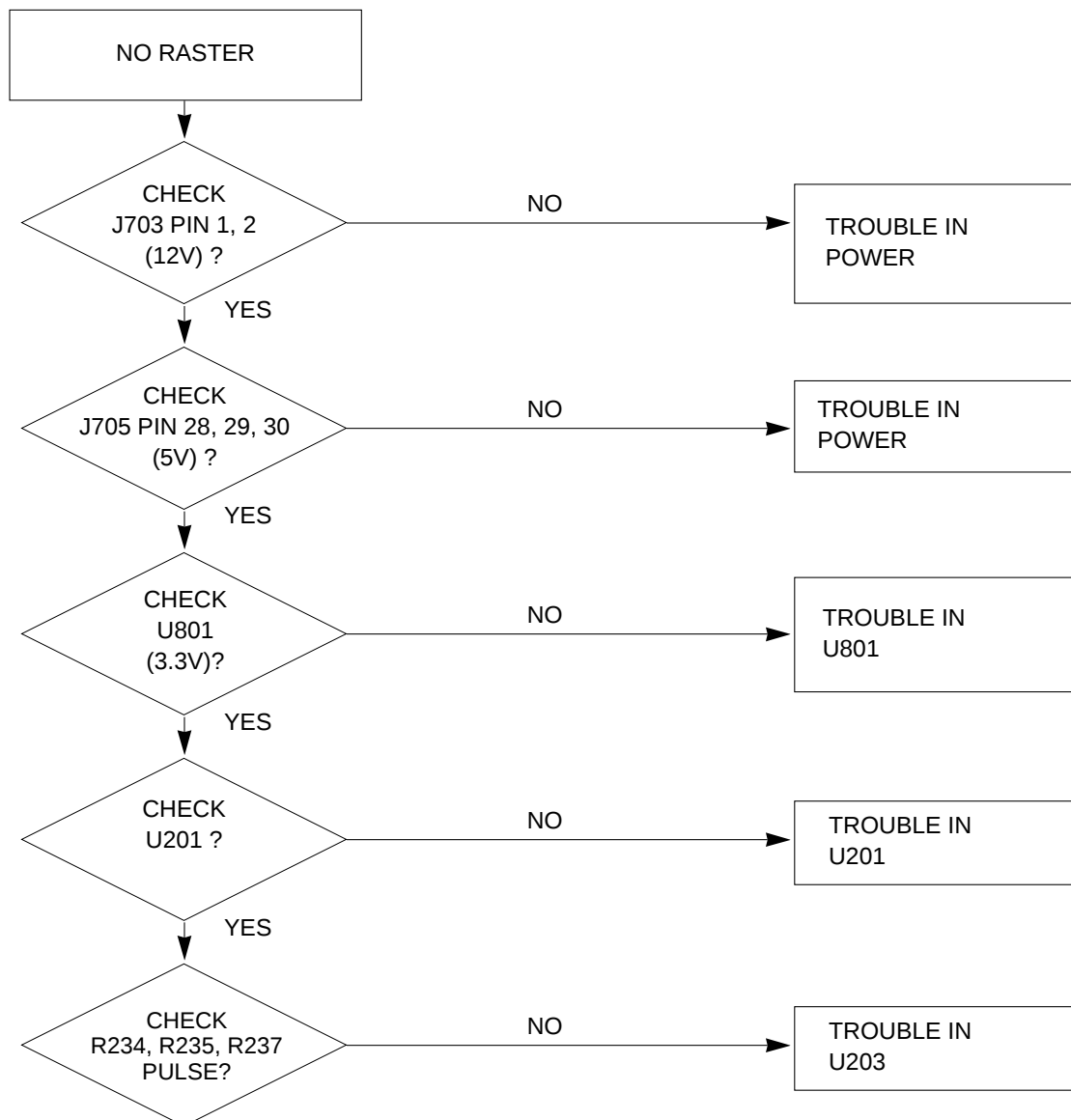
Figure 1. Cable Connection

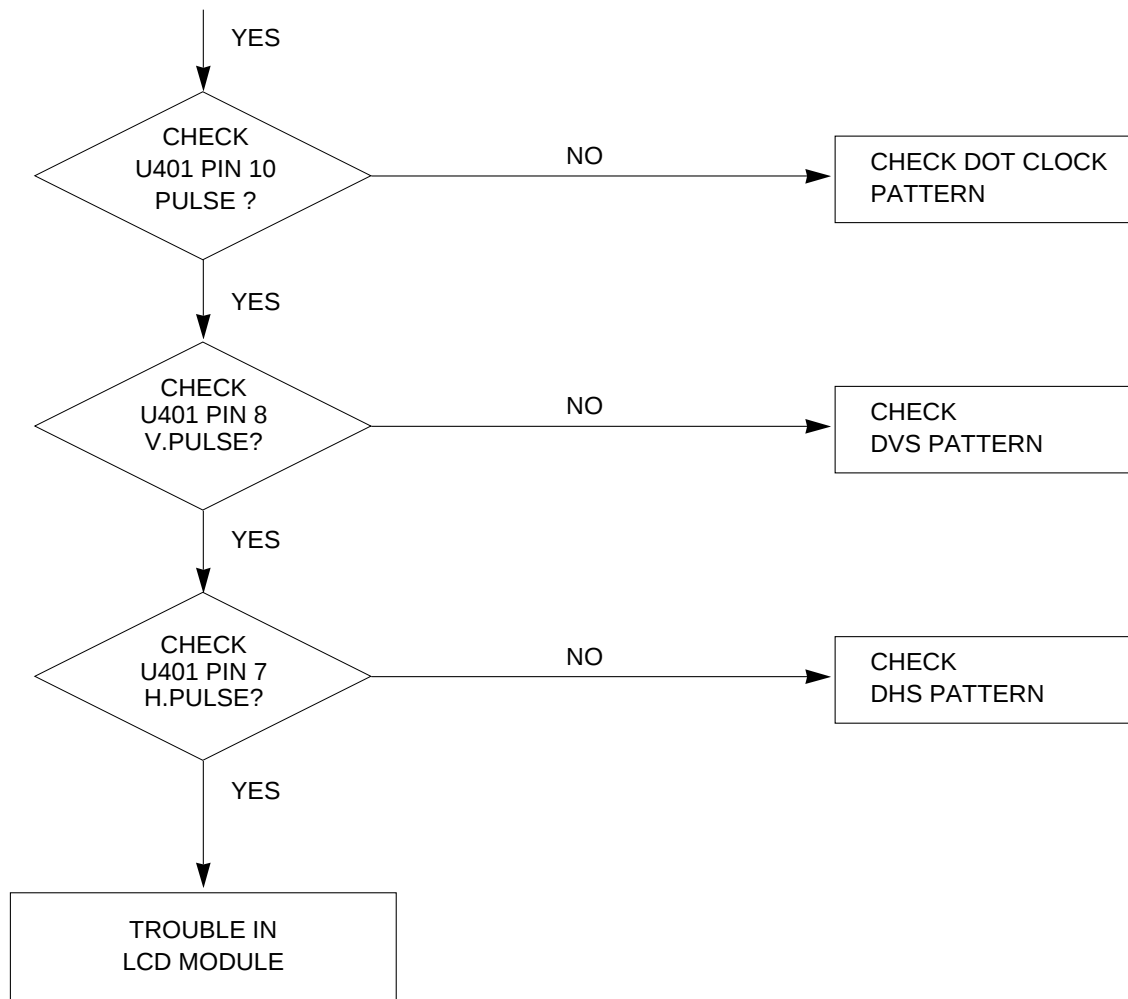
TROUBLESHOOTING GUIDE

1. NO POWER

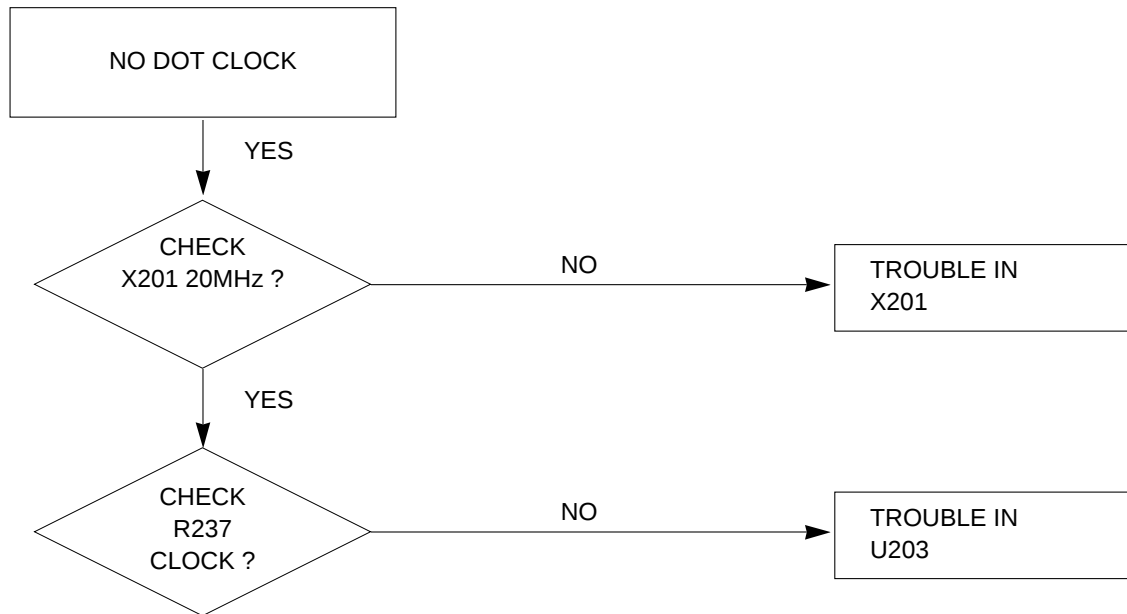


2. NO RASTER

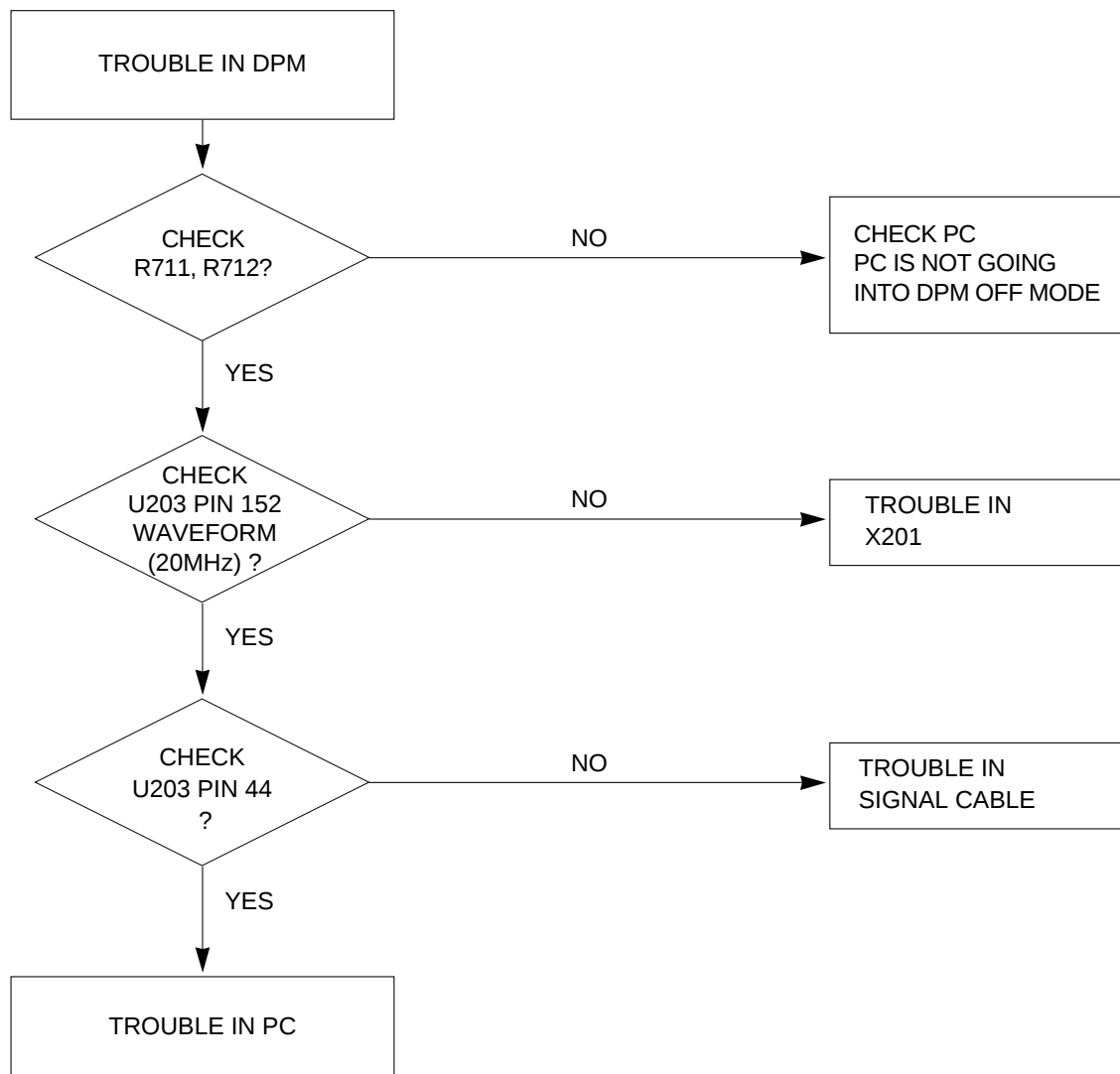




3. NO CLOCK (CLOCK GENERATOR)

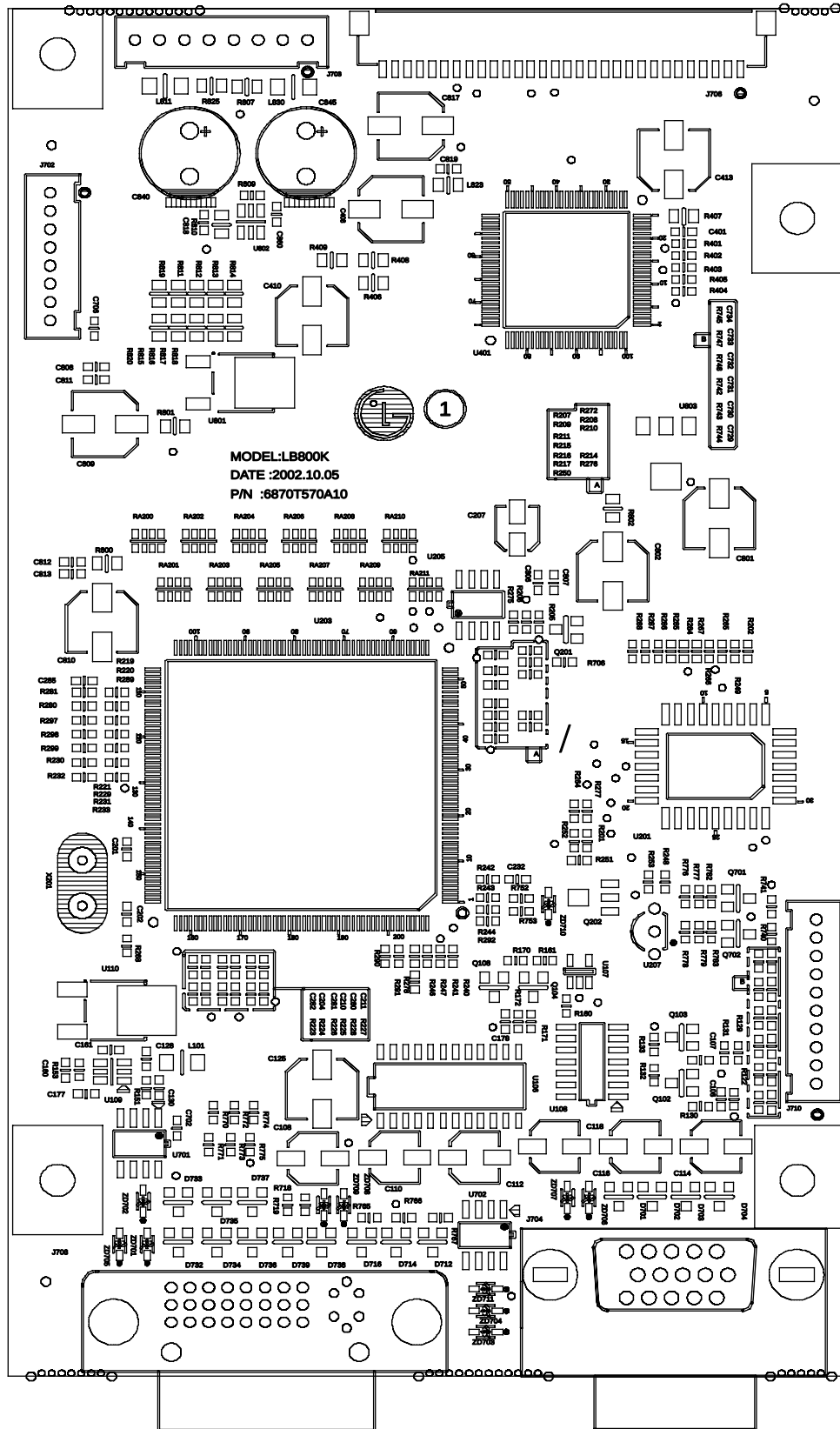


4. TROUBLE IN DPM

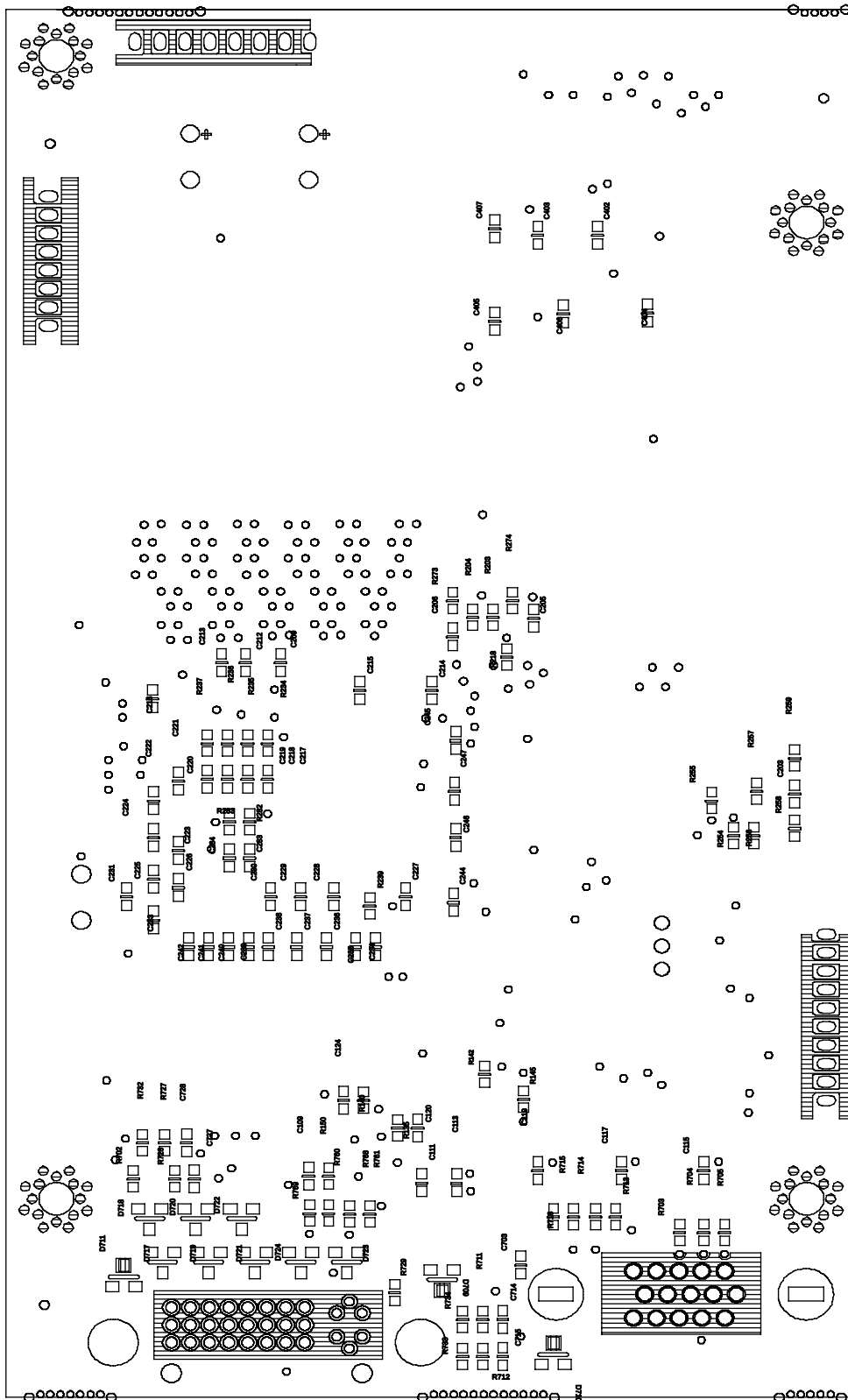


PRINTED CIRCUIT BOARD

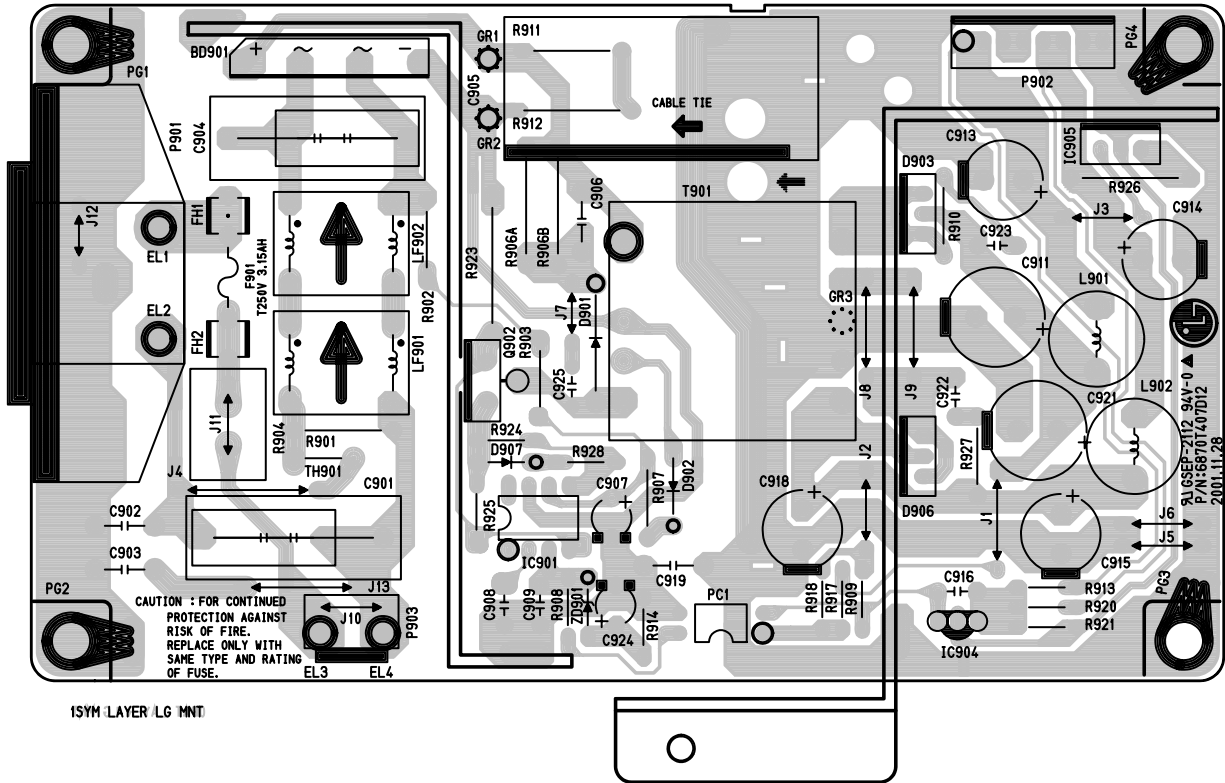
1. MAIN BOARD (Component Side)



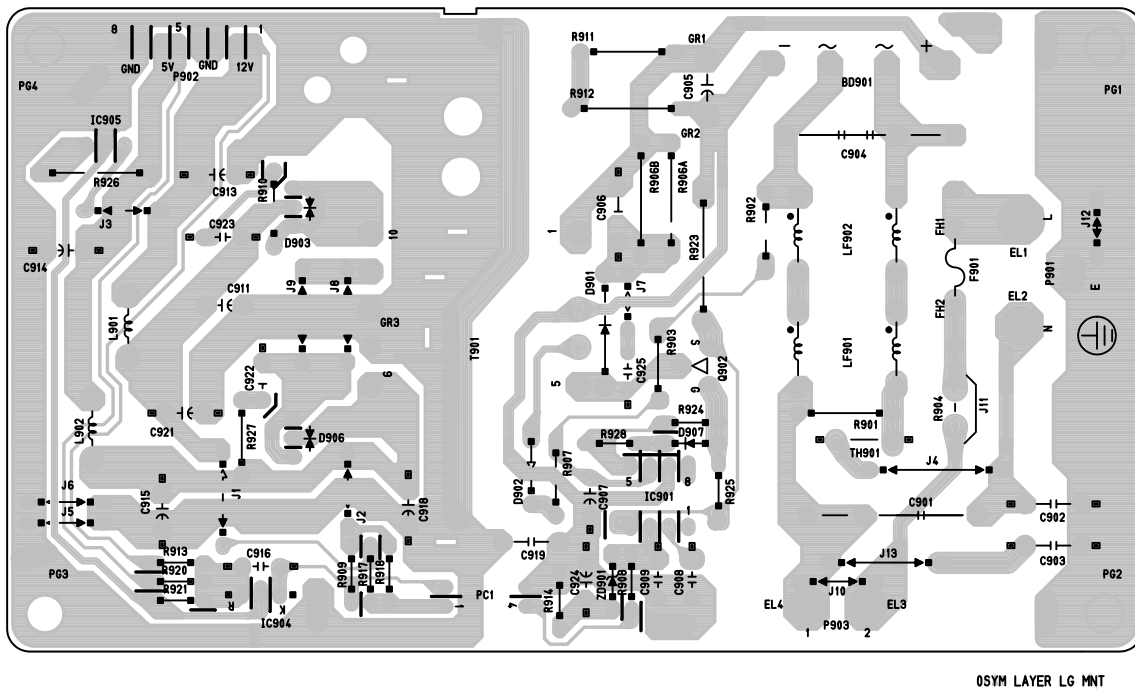
2. MAIN BOARD (Solder Side)



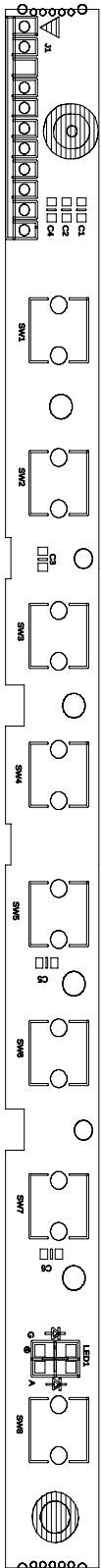
3. POWER BOARD (Component Side)



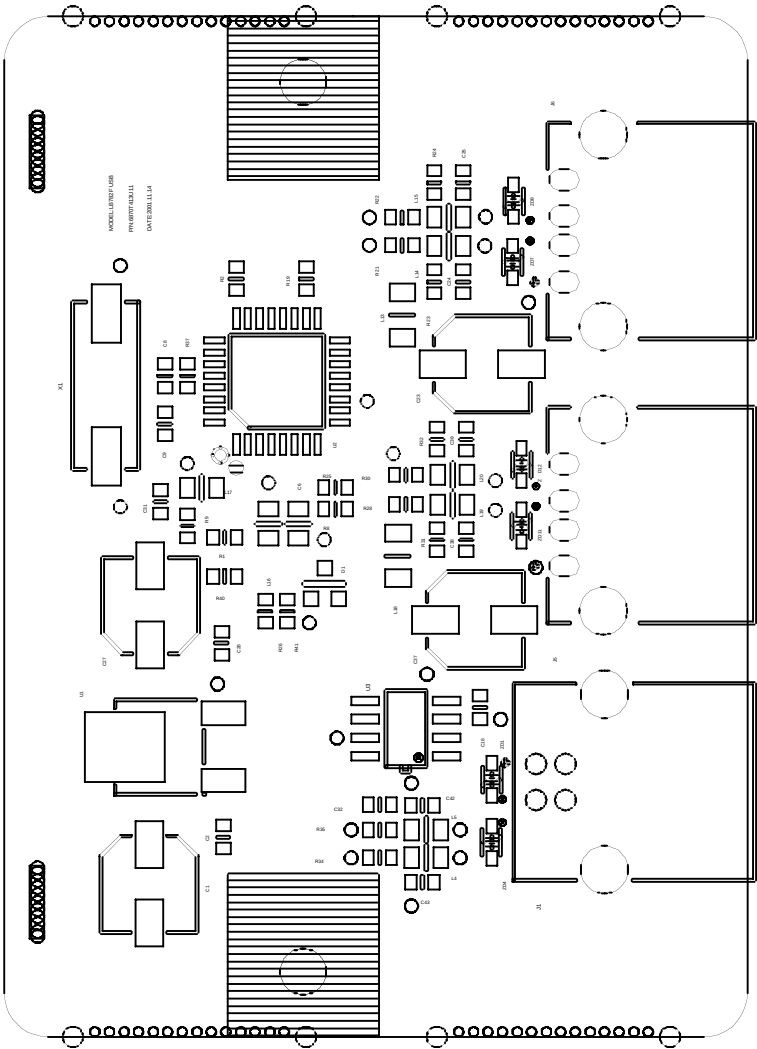
4. POWER BOARD (Solder Side)



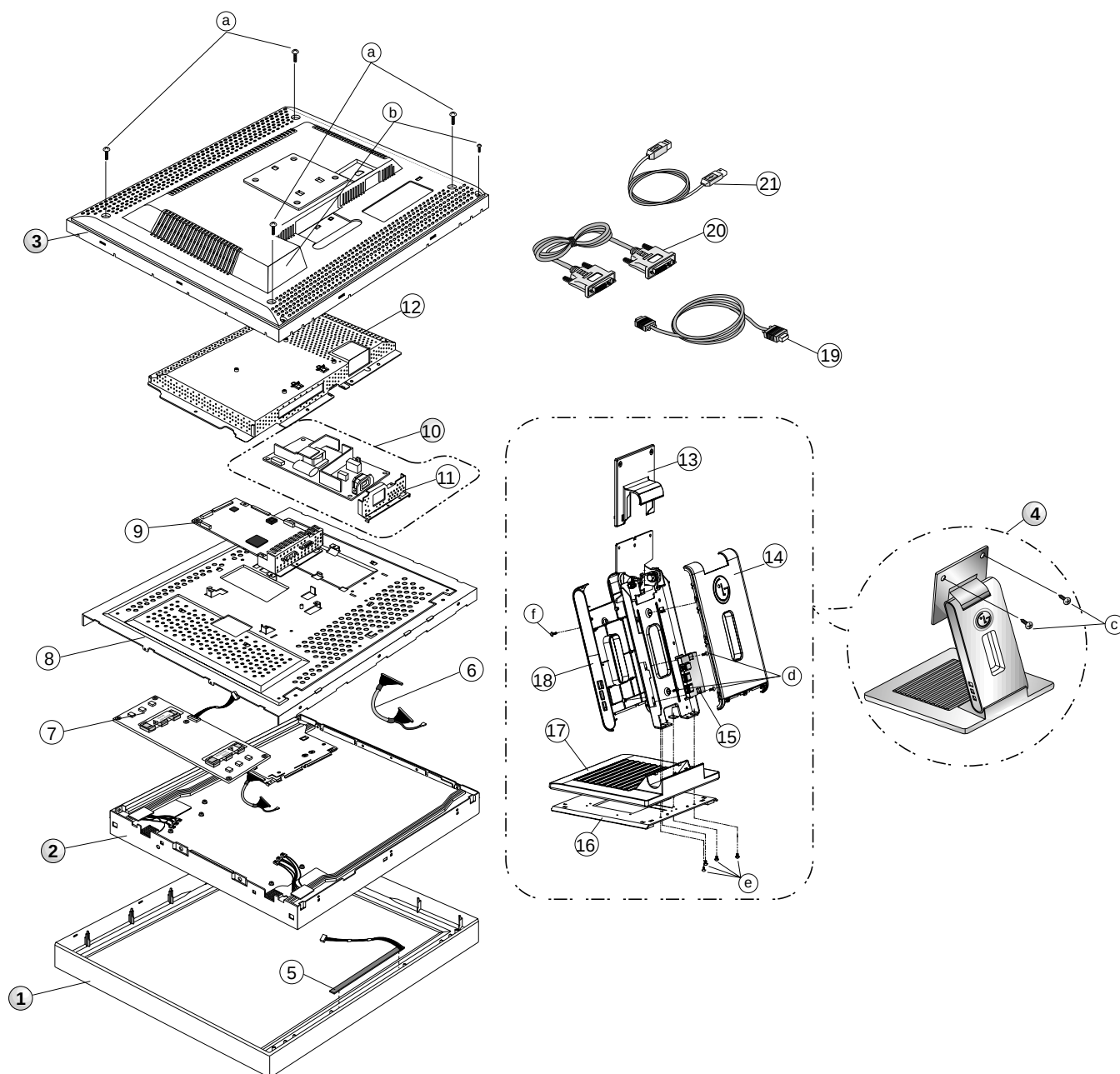
5. CONTROL BOARD



6.USB BOARD



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

* Note: Safety mark 

Ref. No.	Part No.		Description
1	3091TKL038J		CABINET ASSEMBLY, LB800K BRAND L039 ABS SILVER SPRAY
2	6304FLP044A		LCD(LIQUID CRYSTAL DISPLAY), LM181E06-A4C3 LG PHILPS TFT COLOR SXGA LVDS SMM
	or6304FLP034A		LCD(LIQUID CRYSTAL DISPLAY), LM181E06-A4M1 LG PHILPS TFT COLOR SXGA 18.1" LVDS SMM
3	3809TKL025A		BACK COVER ASSEMBLY, LB800H L030A 85964
4	3043TKK091A		TILT SWIVEL ASSEMBLY, LB800H . .
5	6871TST321A		PWB(PCB) ASSEMBLY, SUB, LB800K CONTROL TOTAL BRAND CL-42
6	6631T11012P		CONNECTOR ASSEMBLY, 30P H-H 100MM UL20276 PANEL LINK LB886F
7	6633TZA015B		INVERTER ASSEMBLY, AMBIT K11I010.01 6-LAMPS LB800K
8	4951TKS078K		METAL ASSEMBLY, FRAME MAIN FRAME(LB800K)
9	6871TMT351A		PWB(PCB) ASSEMBLY, MAIN, LB800K ALRDV BRAND CL-42 TOTAL
10	6871TPT225A		PWB(PCB) ASSEMBLY, POWER, LB800H POWER TOTAL BRAND
11	4814TKK187A		SHIELD, REAR LB886F
12	4950TKK429A		METAL, REAR LB800H
13	3550TKK257A		COVER, LB800H STAND TOP HINGE
14	3550TKK255A		COVER, LB800H STAND REAR
15	6871TUT017A		PWB(PCB) ASSEMBLY, USB, LB782F SUB TOTAL BRAND
16	4950TKK430A		METAL, BASE LB800H
17	3550TKK256A		COVER, LB800H STAND BOTTOM
18	3550TKK254A		COVER, LB800H STAND FRONT
19	6850TD9001A		CABLE, D-SUB, UL 2990-9C(7.5) DT 1870MM GRAY(85964) BRAND DM
20	6866TDV004C		CABLE, DVI, UL20276 DT 2000MM GRAY(85964) LB885C DM
21	6866TDU002D		SIGNAL CABLE, UL20276SB10P+2C AWG#30 DT 1870MM GRAY(85964) BRAND
a	1SZZTER001H		SCREW, DRAWING, D3.0 L10.0 MSWR/BK .
b	332-113S		SCREW, DRAWING, D3.0 L12.0 MSWR/BK .
c	332-105G		SCREW, DRAWING, PVS+4*10(MSWR/BK)
d	332-068U		SCREW, PPB+3x8(MSWR/FZMW)
e	332-105K		SCREW,DRAWING, D4.0 L10.0 MSWR/FZMCW1 KNURLING
f	332-113R		SCREW, DRAWING, D3.0 L16.0 MSWR/BK

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

* NOTE : **S** SAFETY Mark 
AL ALTERNATIVE PARTS

				DATE: 2002. 11. 06.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITORS				
		C106	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C107	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C108	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C109	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C110	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C111	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C112	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C113	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C114	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C115	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C116	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C117	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C118	0CE476VC6DC	47UF MV 6.3V 20% R/TP(SMD)
		C119	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C120	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C124	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C125	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C128	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C130	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C160	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C161	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C177	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C178	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C201	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C202	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C203	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C204	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C205	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C206	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C207	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C209	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C210	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C211	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C212	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C213	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C214	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C215	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C216	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C217	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C218	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C219	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
		C220	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C221	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C222	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C223	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C224	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C225	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C226	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C227	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C228	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C229	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C230	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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		C231	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C232	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C233	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C234	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C235	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C236	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C237	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C238	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C239	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C240	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C241	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C242	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C244	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C245	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C246	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C247	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C280	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C281	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C282	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C283	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C284	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C401	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C402	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C403	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C404	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C405	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C406	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C407	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C408	0CH8226F691	22UF 16V 20% 105STD (CYL) R
		C410	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C413	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C702	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C703	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C706	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C714	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C715	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C727	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C728	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C729	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C730	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C731	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C732	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C733	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C734	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C801	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C802	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C806	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C807	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C808	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C809	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C810	0CH8476F691	47UF 16V 20% 105STD (CYL) R
		C811	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C812	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C813	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C817	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C818	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C819	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C840	0CE477EH618	470UF KMG 25V M FL TP 5
		C845	0CE477EH618	470UF KMG 25V M FL TP 5
		C860	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
DIODES				
		D701	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D702	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D703	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D704	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D709	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT2
		D710	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT2
		D711	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT2
		D712	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D714	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D716	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D717	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D718	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D719	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D720	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D721	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D722	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D732	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D733	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D734	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D735	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D736	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D737	0DS226009AA	KDS226 TP KEC SOT-23 80V 3
		D738	0DZ845109AB	BZX84C5V1 TP G.I SOT23 0.35
		D739	0DZ845109AB	BZX84C5V1 TP G.I SOT23 0.35
		ZD701	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD702	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD703	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD704	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD705	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD706	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD707	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD708	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD709	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD710	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
		ZD711	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD3
ICs				
		U106	0IRH765700B	BA7657F 24P,SOP TP INPUT SI
		U107	0ISTLT1040A	SN74AHC1G86DBVR TEXAS INSTR
		U108	0IPH740800H	74F08D 14P,SOIC TP QUAD 2-I
		U109	0TFVI80023A	VISHAY SI3865DV R/TP TSOP-6
		U110	0ISS780500H	KA78M05-R 3P,D-PAK TP 5V 0.
		U201	0IZZTS2212A	ATMEL/STM 32PIN ST OTP LB80
		U203	0IPRPGN005A	GM5120 GENESIS 208P,PQFP TR
		U205	0IMMRSS040C	S524A60X51(SCT0) SAMSUNG EL
		U207	0IKE702900D	KIA7029AP TO-92 TP 2.9V DET
		U401	0ILNRTH001A	THC63LVD823 THINE MICROSYST
		U701	0ISS524202B	S524A40X21(SCT0) SAMSUNG EL
		U702	0ISS524202B	S524A40X21(SCT0) SAMSUNG EL
		U801	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		U802	0TFVI80036A	SI3861DV VISHAY R/TP TSOP-6
		U803	0IPMGFA003B	RC1117S-2.5 FAIRCHILD SOT-2

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COILS & CORES				
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L811	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L823	6210TCE001Z	HH-1M2012-600JT CERATEC R/T
		L830	6210TCE001G	HH-1M3216-501 CERATEC 3216M
TRANSISTOR				
		Q102	0TR390409AE	FAIRCHILD KST3904(LGEMTF) T
		Q103	0TR390409AE	FAIRCHILD KST3904(LGEMTF) T
		Q104	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q108	0TR390409AE	FAIRCHILD KST3904(LGEMTF) T
		Q201	0TR162309CA	KSC1623 TP SAMSUNG SOT23 N
		Q701	0TR390609FA	KST3906-MTF TP SAMSUNG SOT
		Q702	0TR390609FA	KST3906-MTF TP SAMSUNG SOT
RESISTORS				
		R130	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R131	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R132	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R133	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R135	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/T
		R140	0RJ1003D677	100K OHM 1/10 W 5% 1608 R/T
		R142	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R145	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R150	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R151	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R153	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R160	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R161	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R170	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R172	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R201	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R203	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R204	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R205	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R206	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R207	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R209	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R210	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R211	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R214	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R215	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R216	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R217	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R218	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R219	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R221	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R223	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R224	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R225	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R226	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R227	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R228	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R234	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R235	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R236	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R237	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R239	0RJ1001D477	1K OHM 1/10 W 1% 1608 R/TP
		R242	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

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		R243	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R246	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R247	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R249	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R250	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R252	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R255	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R256	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R257	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R258	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R259	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R272	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R273	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R274	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R275	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R276	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R277	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R282	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R283	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R289	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R290	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R291	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R401	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R402	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R404	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R405	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R407	0RH0000D622	0 1/10W P-TYPE TAPPING
		R408	0RH0000D622	0 1/10W P-TYPE TAPPING
		R409	0RH0000D622	0 1/10W P-TYPE TAPPING
		R702	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R703	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R704	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R705	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R706	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R711	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R712	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R713	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R714	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R715	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R716	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R718	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R719	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R726	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R727	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R729	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R732	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R733	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R734	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R740	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R741	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R742	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R743	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R744	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R745	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R747	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R748	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R752	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R753	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R760	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R761	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R765	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R766	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R767	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R768	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R769	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R770	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R771	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R772	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R773	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R774	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R775	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R776	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R777	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R778	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/T
		R779	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R800	0RH0000D622	0 1/10W P-TYPE TAPPING
		R801	0RH0000D622	0 1/10W P-TYPE TAPPING
		R802	0RH0000D622	0 1/10W P-TYPE TAPPING
		R807	0RH0000D622	0 1/10W P-TYPE TAPPING
		R809	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R810	0RH5600D622	560 1/10W 5 D.R/TP
		R811	0RH0332D622	33 1/10W 5 D.R/TP
		R812	0RH0332D622	33 1/10W 5 D.R/TP
		R813	0RH0332D622	33 1/10W 5 D.R/TP
		R814	0RH0332D622	33 1/10W 5 D.R/TP
		R815	0RH0332D622	33 1/10W 5 D.R/TP
		R816	0RH0332D622	33 1/10W 5 D.R/TP
		R817	0RH0332D622	33 1/10W 5 D.R/TP
		R818	0RH0332D622	33 1/10W 5 D.R/TP
		R819	0RH0332D622	33 1/10W 5 D.R/TP
		R820	0RH0332D622	33 1/10W 5 D.R/TP
		RA200	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA201	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA202	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA203	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA204	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA205	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA206	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA207	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA208	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA209	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA210	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
		RA211	0RHZTCZ001A	100 OHM 1/16 W 5% 3215 R/TP
OTHERS				
		X201	6212AA2004B	HC-49U TXC 20.0MHZ +/- 30 P
POWER BOARD				
		BD901	0DD360000DA	D3SBA60 BK SHINDENGEN 600V
△		C901	0CBZTBU002B	BULK PCX2 335 474K
△		C902	0CKZTTA003B	SC E 332M 12.5FF7 250V TP7.
△		C903	0CKZTTA003B	SC E 332M 12.5FF7 250V TP7.
△		C904	0CBZTBU002A	BULK PCX2 335 224K
		C905	0CZZTAB002C	KMF 18*40 SYE / SWE 400V 12
		C906	0CK10302945	0.01UF 2KV Z F TR
		C907	0CE476EK638	47UF KMG 50V M FM5 TP 5
		C908	0CQ2721N419	2700PF 100V J PE NI TP
		C909	0CK1020K515	1000PF 50V K B TR
		C911	0CE228EF630	2200UF KMG 16V M FM5 BULK
		C913	0CE108BF630	1000UF KME 16V M FM5 BULK
		C914	0CE228ED630	2200UF KMG,RD 10V 20% BULK
		C915	0CE228ED630	2200UF KMG,RD 10V 20% BULK

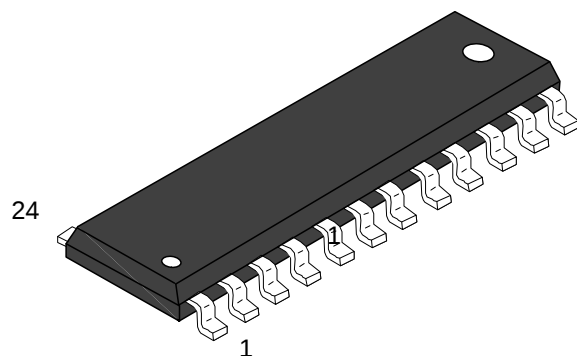
DATE: 2002. 11. 06.				
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		C916	181-288L	MKT 100V 823JTR PHS26823
		C918	0CE228ED630	2200UF KMG,RD 10V 20% BULK
		C919	0CKZTTA003B	SC E 332M 12.5FF7 250V TP7.
		C921	0CE228EF630	2200UF KMG 16V M FM5 BULK
		C922	0CKZTTA002E	EKR3A102K09FK5 SAMWHA 1KV 1
		C923	0CKZTTA002E	EKR3A102K09FK5 SAMWHA 1KV 1
		C924	0CE336BH638	33UF KME 25V M FM5 TP5
		D901	0DD400709CB	UF4007 TP G.I DO204AL 1000
		D902	0DR400409AB	UF4004 TP G.I DO204AL 400V
		D903	0DRIR00011B	16CTQ100 I.R ST TO220 100V
		D906	0DRIR00021A	30CTQ060 I.R ST TO220 60V 3
		D907	0DS113309AA	1SS133 TP ROHM KOREA DO34 9
		F901	131-040C	3150MA 250V 5.2X20 CY/GL UL
		FH1	430-858C	AFC-520 BAE EUN TA
		FH2	430-858C	AFC-520 BAE EUN TA
		IC901	0IPMGIH001A	ICE2AS01 INFINEON 8P,DIP ST
		IC904	0ISS431000A	KA431AZ (LM431AZ)
		IC905	0ISS780500F	KA7805
		L901	150-A85F	LX31 GET BAR CHOKE,3.3UH,LB
		L902	150-A85F	LX31 GET BAR CHOKE,3.3UH,LB
		LF901	6200TZZ001A	- GO BK L/FILTER,9MH,LB886F
		LF902	6200TZZ001A	- GO BK L/FILTER,9MH,LB886F
		P901	6620TKB002A	BAE EUN AC UNIVERSAL 3PIN B
		PC1	0IL1817000E	LTV-817M B 4P BK PHOTO COUP
		Q902	0TFFN10004A	INFINEON SPP11N60C2 ST TO22
		R901	0RD6803A609	680K OHM 1/2 W (7.0) 5% TA5
		R902	0RD3902A609	39K OHM 1/2 W (7.0) 5% TA52
		R903	0RD3902A609	39K OHM 1/2 W (7.0) 5% TA52
		R906A	0RX5102J609	51KOHM 1 W 5% TA52
		R906B	0RX5102J609	51KOHM 1 W 5% TA52
		R907	0RD0102Q609	10 1/4W(3 5% TA52
		R908	0RD0222Q609	22 1/4W(3 5% TA52
		R909	0RD1001Q609	1K 1/4W(3 5% TA52
		R910	0RD0431A609	4.3 OHM 1/2 W (7.0) 5% TA52
		R911	0RD1004A609	1.0M OHM 1/2 W (7.0) 5% TA5
		R912	0RD1004A609	1.0M OHM 1/2 W (7.0) 5% TA5
		R913	0RN1102F409	11K 1/6W 1% TA52
		R914	0RD1002Q609	10K 1/4W(3 5% TA52
		R917	0RD1201Q609	1.20K 1/4W(3 5% TA52
		R918	0RD1000Q609	100 1/4W(3 5% TA52
		R920	0RN4702F409	47K 1/6W 1% TA52
		R921	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R923	0RB0330K607	0.33 OHM 2 W 5% TA62
		R924	0RD0752Q609	75 1/4W(3 5% TA52
		R925	0RD1002Q609	10K 1/4W(3 5% TA52
		R926	0RN0471H609	4.7 OHM 1/2 W 5% TA52
		R927	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R928	0RD0202Q609	20 1/4W(3 5% TA52
		T901	6170TMZ125B	EER3016 340UH V-10PIN LB886
		TH902	6322TA080AA	TP8D13 DAEWOO +/- 15% 110/
		ZD901	0DZ470009BC	GDZ4.7B TP GRANDE DO34 0.5W
CONTROL BOARD				
		SW1	140-058E	SKHV10910B LGEC NON 12V 20A
		SW2	140-058E	SKHV10910B LGEC NON 12V 20A
		SW3	140-058E	SKHV10910B LGEC NON 12V 20A
		SW4	140-058E	SKHV10910B LGEC NON 12V 20A
		SW5	140-058E	SKHV10910B LGEC NON 12V 20A
		SW6	140-058E	SKHV10910B LGEC NON 12V 20A
		SW7	140-058E	SKHV10910B LGEC NON 12V 20A
		SW8	140-058E	SKHV10910B LGEC NON 12V 20A

DATE: 2002. 11. 06.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		LED1	0DLLT0208AA	LITEON LTST-C155KGJSKT R/TP
USB BOARD				
		C1	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C2	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C6	0CH3105F946	1UF 16V Z F 2012 R/TP
		C8	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C9	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C18	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C23	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C24	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C25	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C27	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C28	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(
		C31	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C32	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C37	0CH8107F611	100UF 16V M 85STD(CYL) R/TP
		C38	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C39	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		D1	0DS181009AA	KDS181 TP KEC SOT-23 80V
		L4	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L5	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L13	6210TCE001B	HH-1H3216-500JT CERATEC 321
		L14	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L15	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L16	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L17	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L18	6210TCE001B	HH-1H3216-500JT CERATEC 321
		L19	6210TCE001P	HB-1S2012-121JT CERATECH 20
		L20	6210TCE001P	HB-1S2012-121JT CERATECH 20
		R1	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R2	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R8	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R9	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R19	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R21	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R22	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R23	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R24	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R25	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R26	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R28	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R30	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R31	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R32	0RJ1502D677	15K OHM 1/10 W 5% 1608 R/TP
		R34	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R35	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R37	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R40	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/T
		R41	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		U1	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		U2	0IPRPT1007A	TUSB2036 TEXAS INSTRUMENT 3
		U3	0IT1204200B	TPS2042ADR TEXAS INSTRUMENT
		X1	6202TST001C	SX-1, SUNNY SMD, 6.0MHZ ,50

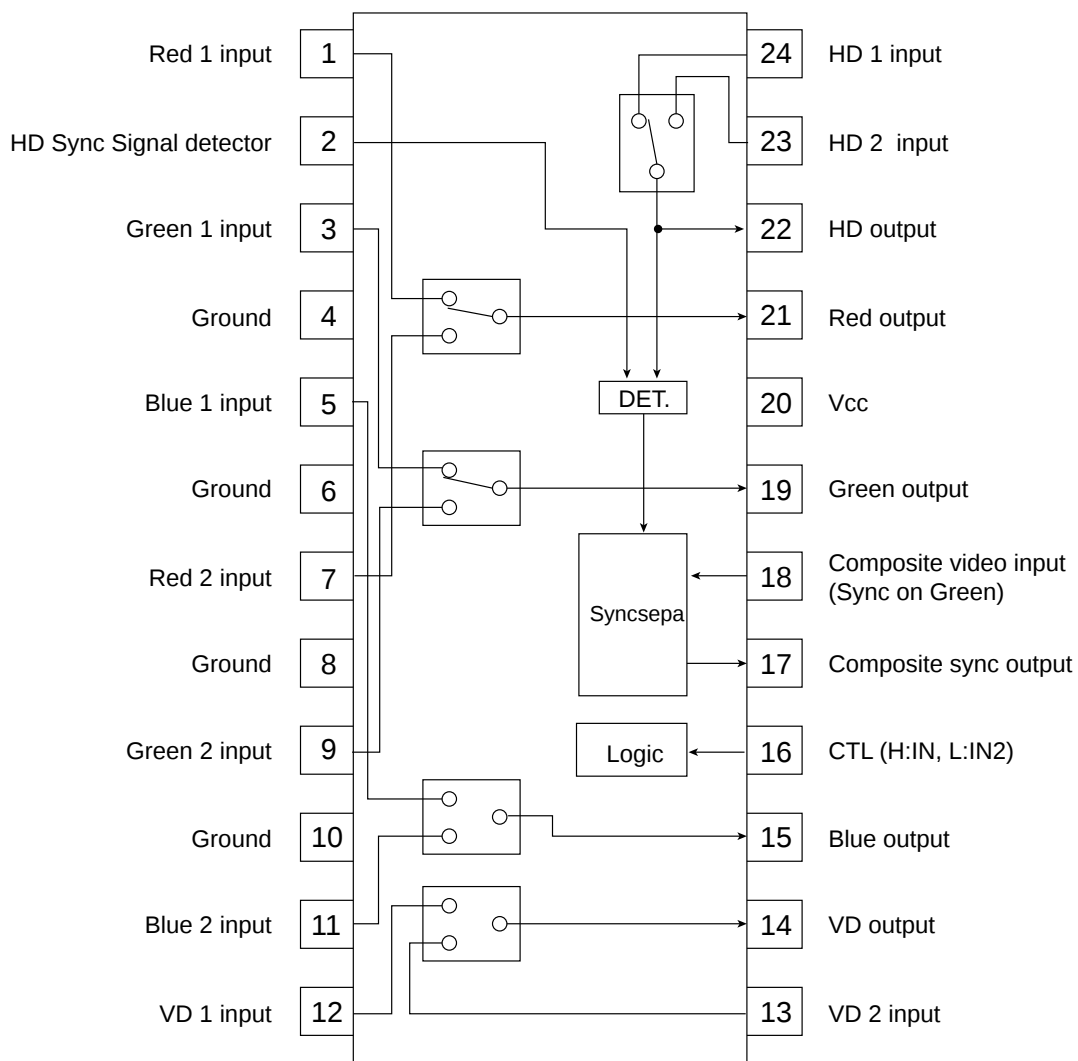
PIN CONFIGURATION

BA7657F

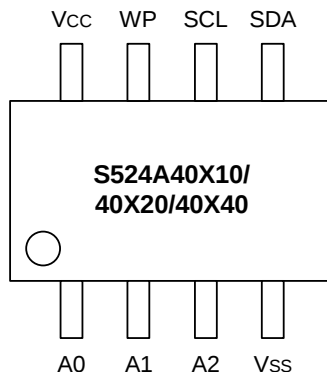
24P



BLOCK DIAGRAM



S524A40X10/40X20/40X40



NOTE: The S524A40X10/40X20/40X40 is available in 8-pin DIP, SOP, and TSSOP package.

Figure 2-2. Pin Assignment Diagram

Table 2-1. S524A40X10/40X20/40X40 Pin Descriptions

Name	Type	Description	Circuit Type
A0, A1, A2	Input	Input pins for device address selection. To configure a device address, these pins should be connected to the V_{CC} or V_{SS} of the device. These pins are internally pulled down to V_{SS} .	1
V_{SS}	—	Ground pin.	—
SDA	I/O	Bi-directional data pin for the I ² C-bus serial data interface. Schmitt trigger input and open-drain output. An external pull-up resistor must be connected to V_{CC} . Typical values for this pull-up resistor are 4.7 k Ω (100 kHz) and 1 k Ω (400 kHz).	3
SCL	Input	Schmitt trigger input pin for serial clock input.	2
WP	Input	Input pin for hardware write protection control. If you tie this pin to V_{CC} , the write function is disabled to protect previously written data in the entire memory; if you tie it to V_{SS} , the write function is enabled. This pin is internally pulled down to V_{SS} .	1
V_{CC}	—	Single power supply.	—

NOTE: See the following page for diagrams of pin circuit types 1, 2, and 3.

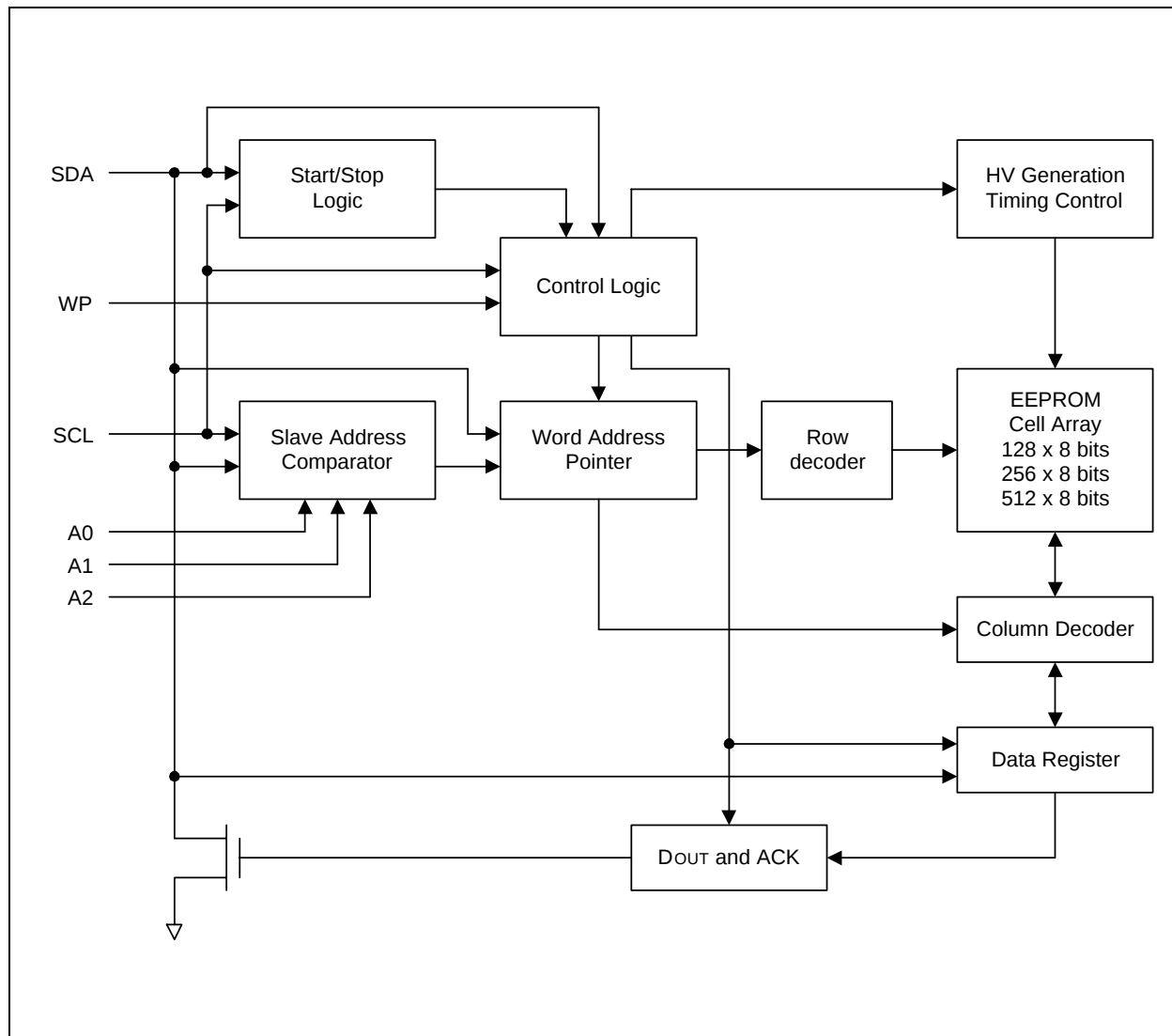
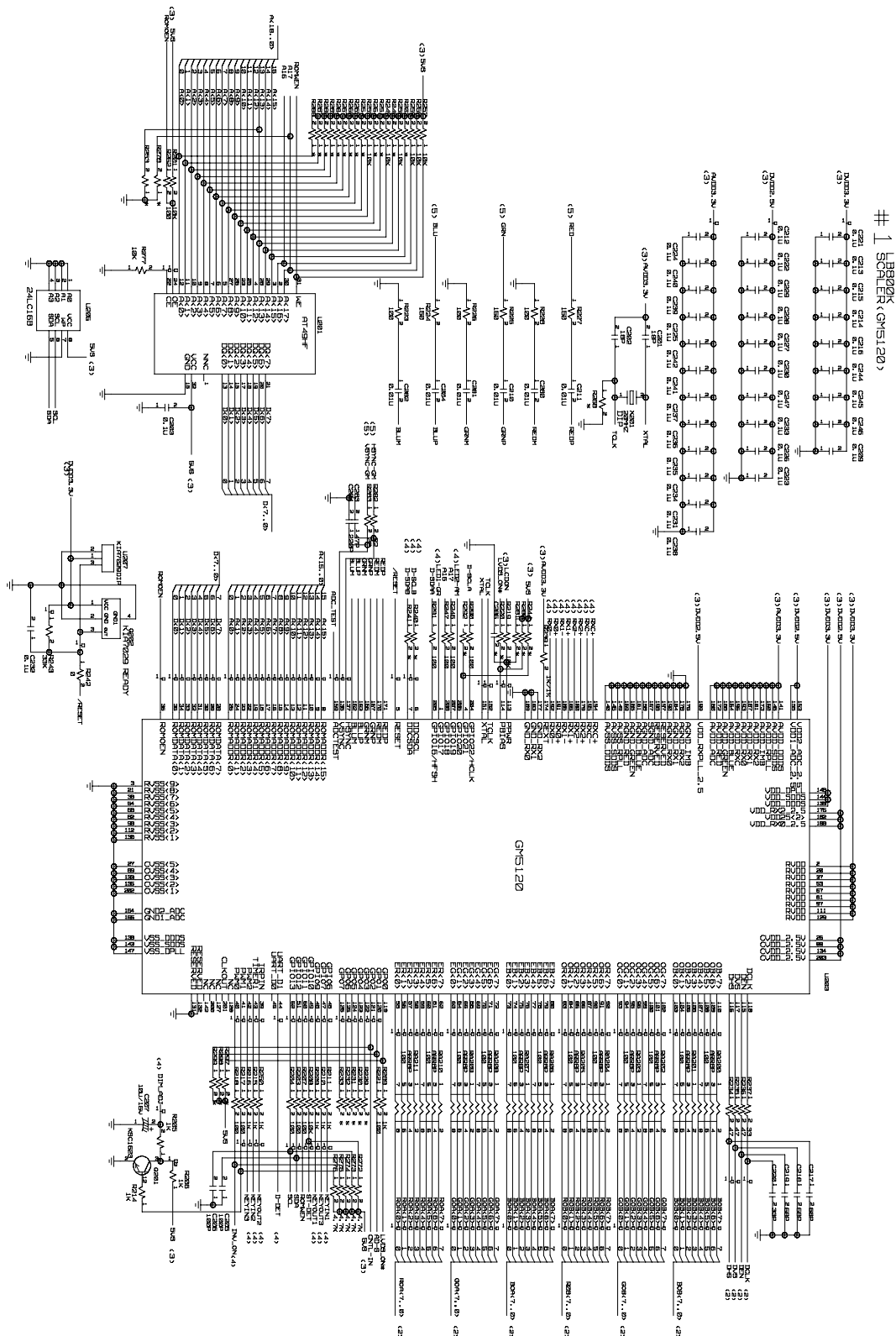


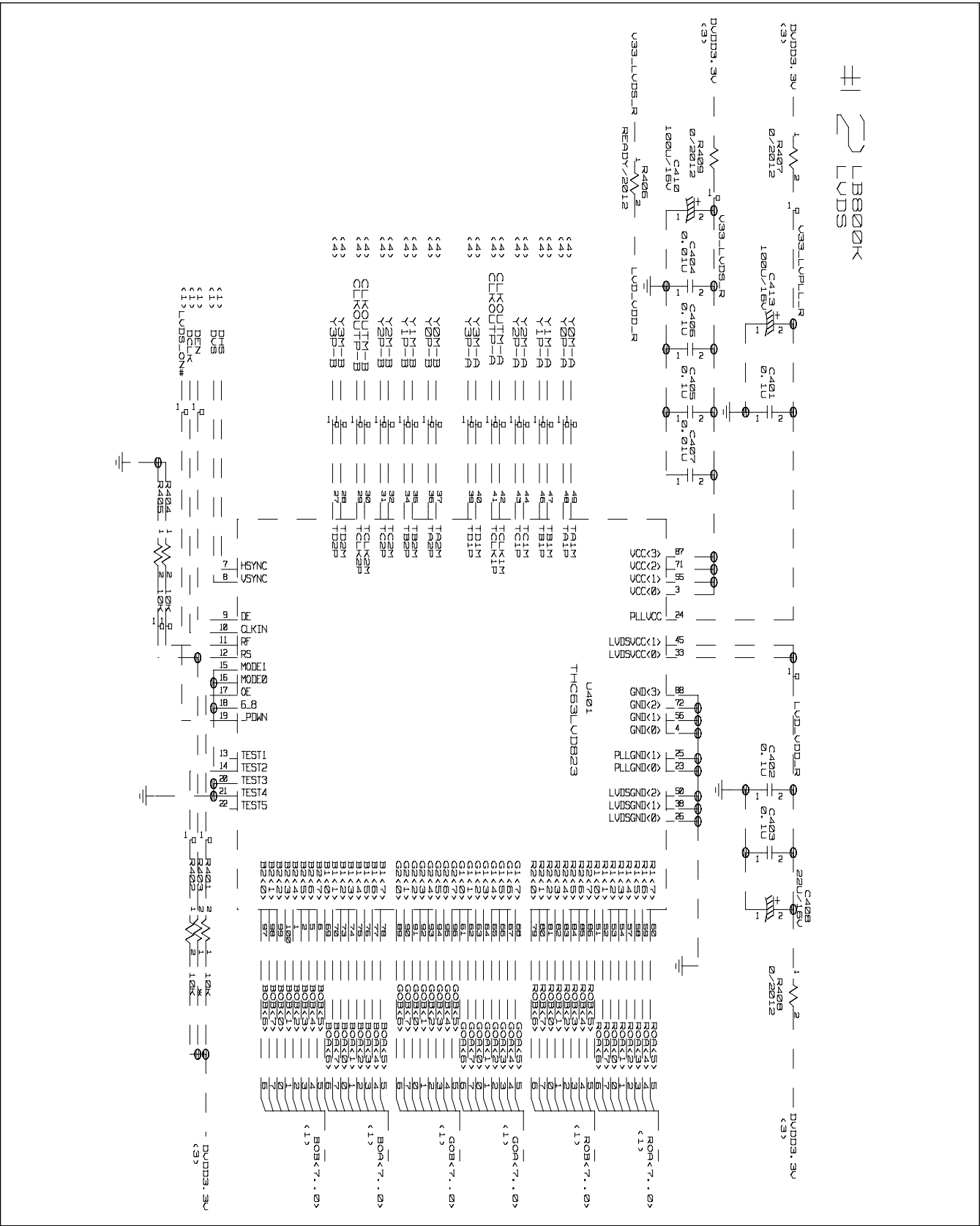
Figure 2-1. S524A40X10/40X20/40X40 Block Diagram

SCHEMATIC DIAGRAM

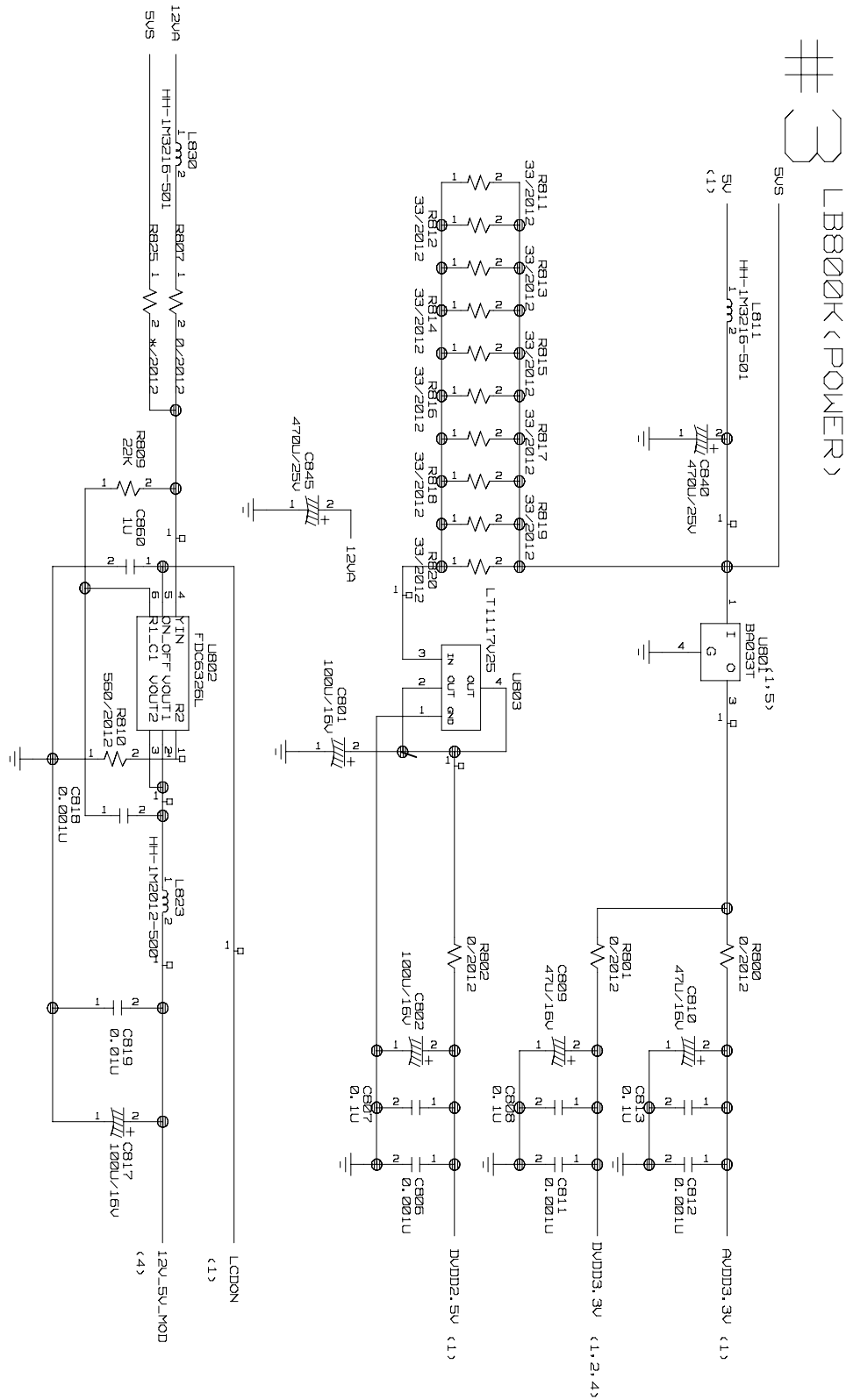
1. GM5120



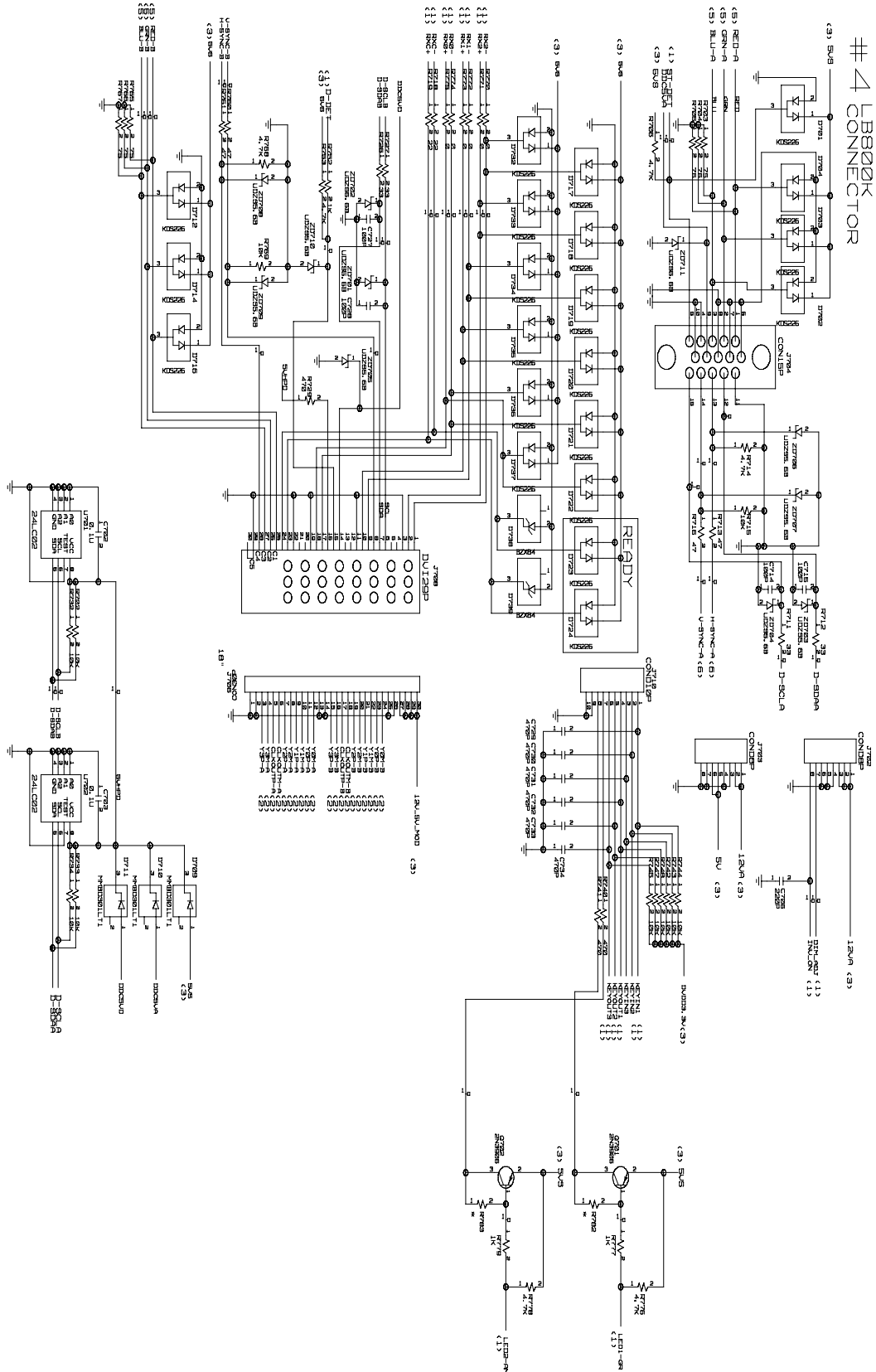
2. LVDS



3. POWER



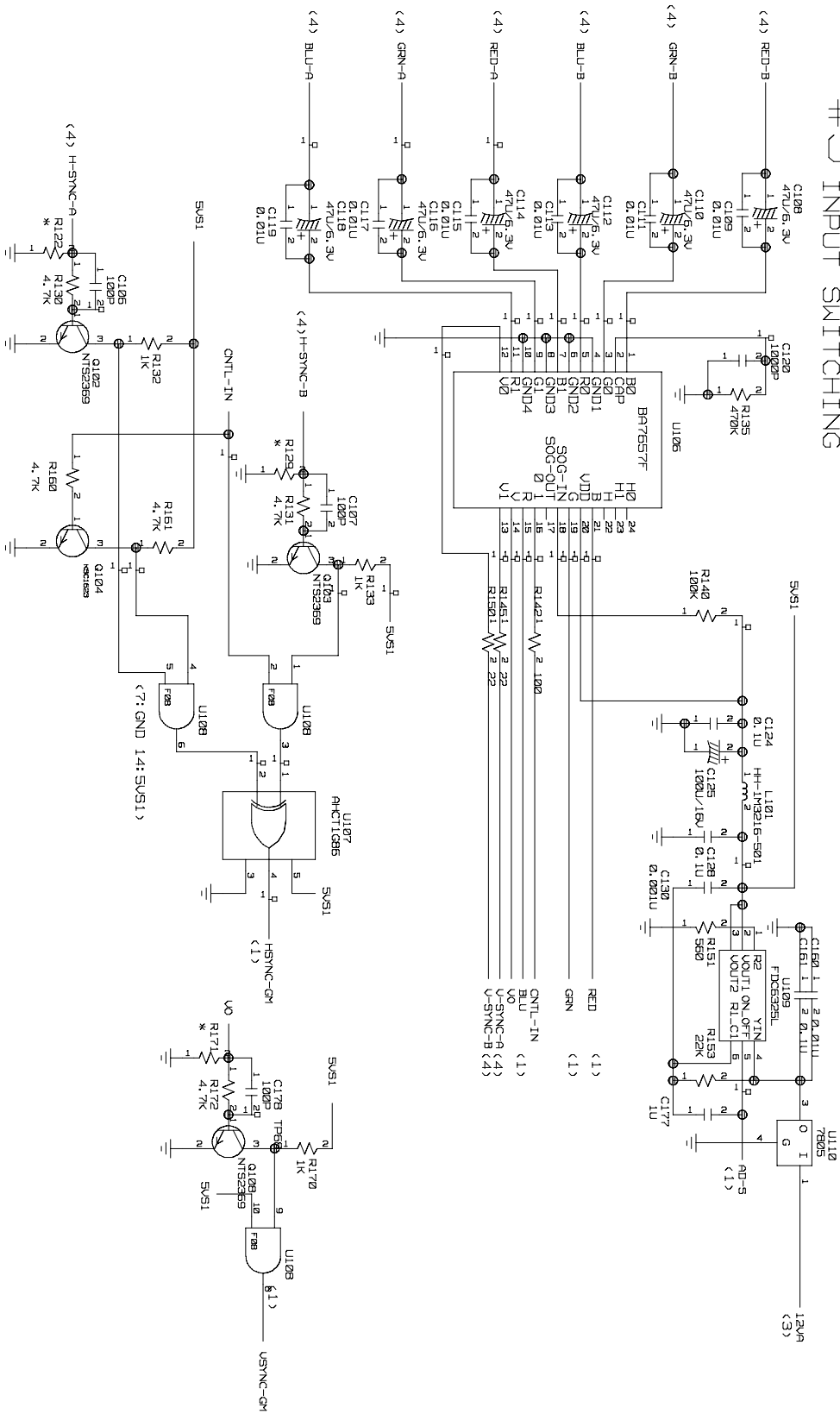
4. CONNECTOR



5. INPUT SWITCHING

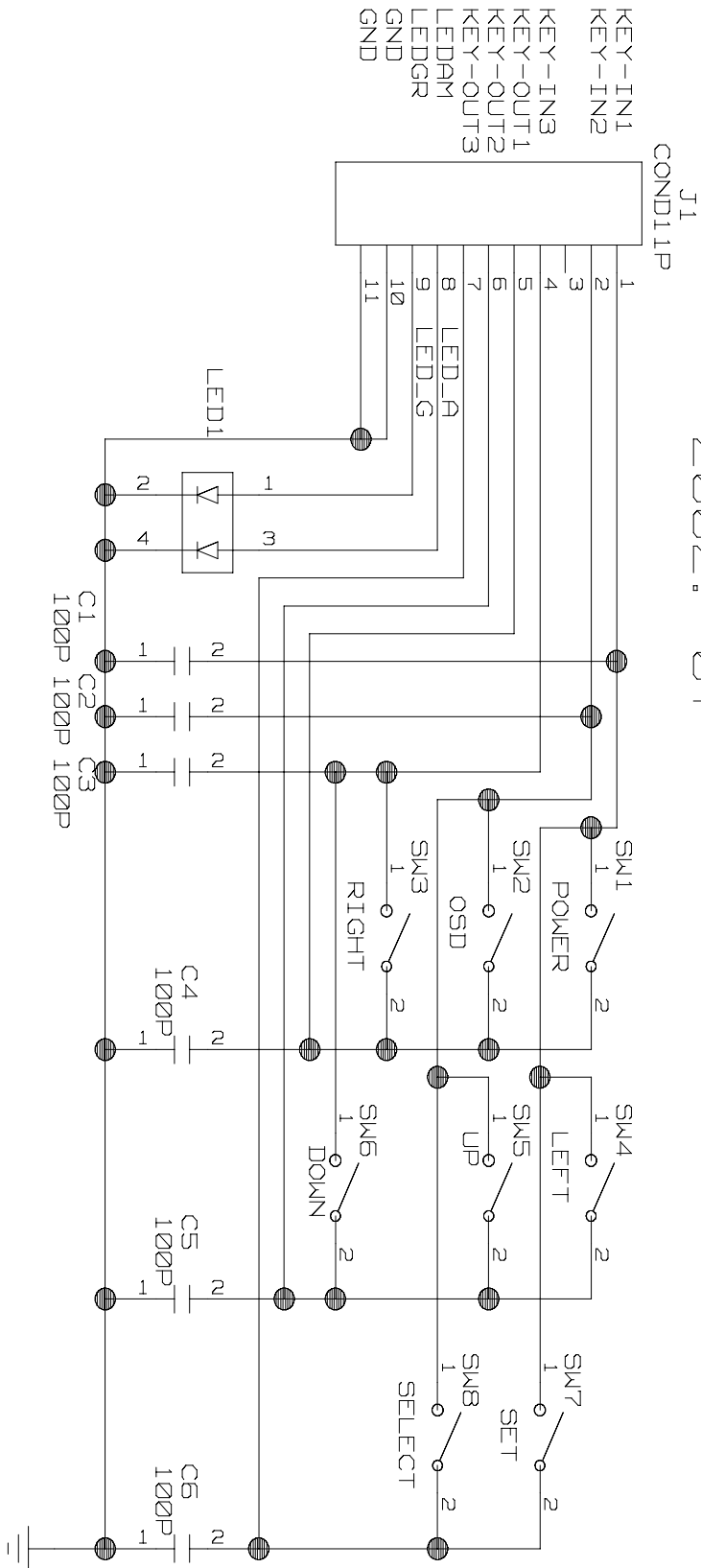
#5 LB800K

INPUT SWITCHING



6. KEY

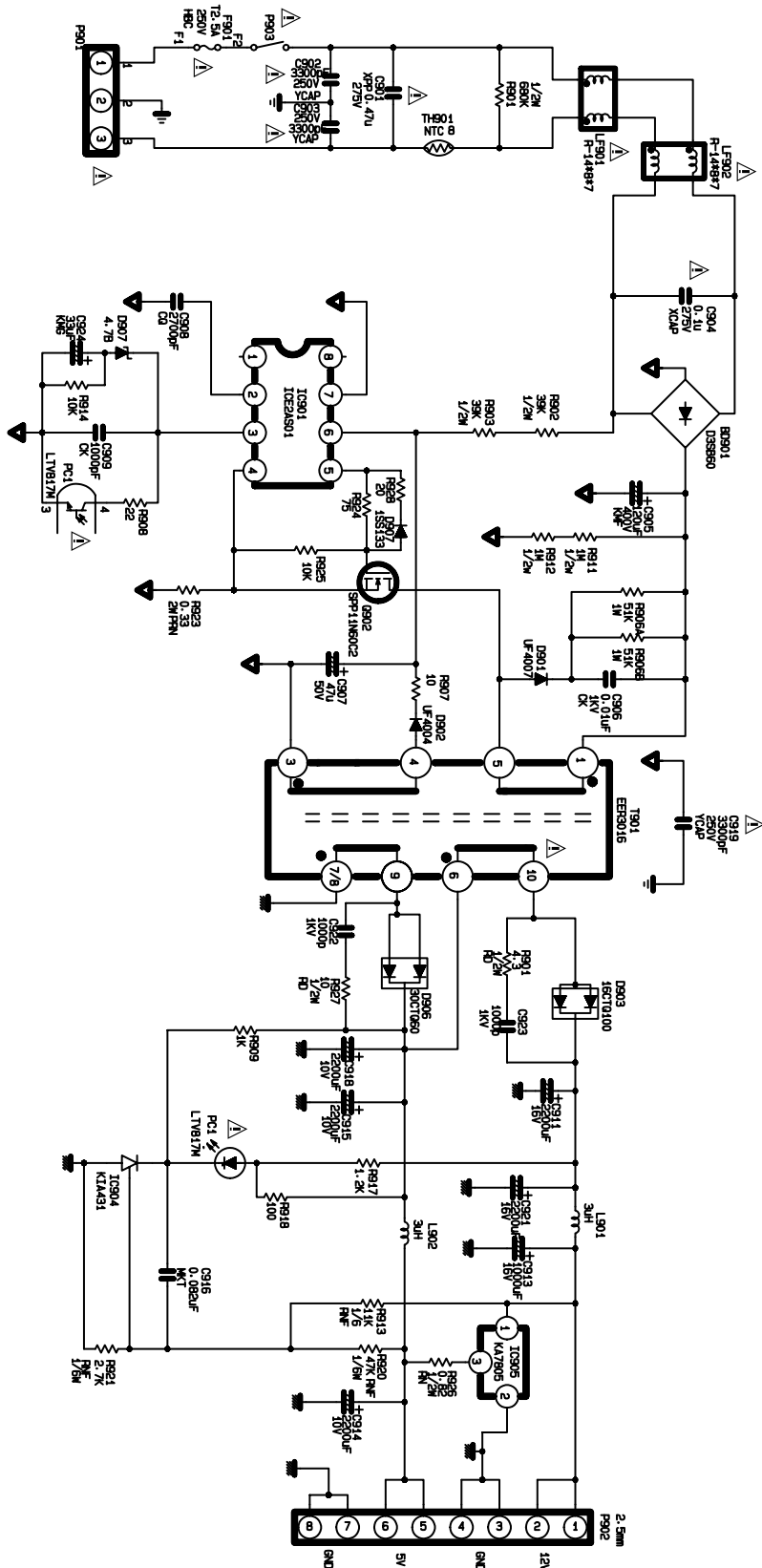
LB800K KEY PART 2002. 07



8. POWER

LB886F Internal Power Circuit

2001.11.21





P/NO : 3828TSL082F

Nov. 2002
Printed in Korea