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# COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CL-62

MODEL: FLATRON L1910B (L1910BM-AF\*\*R)

( ) \*\*Same model for Service

## CAUTION

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



\*To apply the **Mstar Chip**.



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## SPECIFICATIONS

### 1. LCD CHARACTERISTICS

Type : TFT Color LCD Module  
 Size : 19inch(48cm)diagonal  
 Pixel Pitch : 0.294(H) x 0.294(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 : 4-CCFL (Cold Cathode Fluorescent Lamp)

### 2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio  $\geq 10$

#### (LPL Module)

Left : -85° min., -88°(Typ) Right : +85° min., +88°(Typ)  
 Top : +85° min., +88°(Typ) Bottom : -85°min., -88°(Typ)

#### (AU Module)

Left : -75° min., -85°(Typ) Right : +75° min., +85°(Typ)  
 Top : +75° min., +85°(Typ) Bottom : -75°min., -85°(Typ)

#### (CMO Module)

Left : -85°(Typ) Right : +85°(Typ)  
 Top : +85°(Typ) Bottom : -85°(Typ)

2-2. Luminance : 190(min), 250(Typ) **-LPL Module**  
 200(min), 250(Typ) **-AUO Module**  
 200(min), 250(Typ) **-CMO Module**

2-3. Contrast Ratio : 250(min), 400(Typ) **-LPL Module**  
 400(min), 600(Typ) **-AUO Module**  
 250(min), 400(Typ) **-CMO Module**

### 3. SIGNAL (Refer to the Timing Chart)

#### 3-1. Sync Signal

- Type : Separate, Composite, SOG (Sync On Green) Digital

#### 3-2. Video Input Signal

- 1) Type : R, G, B Analog
- 2) Voltage Level : 0~0.7 V
  - a) Color 0, 0 : 0 Vp-p
  - b) Color 7, 0 : 0.35 Vp-p
  - c) Color 15, 0 : 0.7 Vp-p
- 3) Input Impedance : 75  $\Omega$

#### 3-3. Operating Frequency

Horizontal(Analog) : 30 ~ 83kHz  
 Horizontal(Digital) : 30 ~ 71kHz  
 Vertical : 56 ~ 75Hz

### 4. MAX. RESOLUTION

D-sub Analog : 1280 x 1024 @ 75Hz  
 DVI Digital/Analog : 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 45 W	GREEN
STAND-BY	OFF/ON	OFF	less than 1 W	AMBER
SUSPEND	ON/OFF	OFF	less than 1 W	AMBER
DPM OFF	OFF/OFF	OFF	less than 1 W	AMBER
POWER S/W 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  
 Lamp Life : 30,000 Hours(Typ)

### 7. DIMENSIONS (with TILT/SWIVEL)

Width : 413 mm (16.25")  
 Depth : 223 mm (8.78")  
 Height : 435mm (17.13")

### 8. WEIGHT (with TILT/SWIVEL)

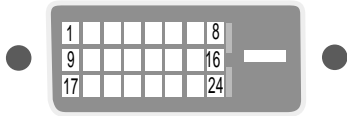
Net. Weight : 7.6kg (16.75 lbs)  
 Gross Weight : 10.1kg (22.27 lbs)

### 9. USB

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

## Signal Connector Pin Assignment

### • DVI-D Connector




Pin	Signal (DVI-D)	Pin	Signal (DVI-D)
1	T. M. D. S. Data2-	16	Hot Plug Detect
2	T. M. D. S. Data2+	17	T. M. D. S. Data0-
3	T. M. D. S. Data2/4 Shield	18	T. M. D. S. Data0+
4	T. M. D. S. Data4-	19	T. M. D. S. Data0/5 Shield
5	T. M. D. S. Data4+	20	T. M. D. S. Data5-
6	DDC Clock	21	T. M. D. S. Data5+
7	DDC Data	22	T. M. D. S. Clock Shield
8	Analog Vertical Sync.	23	T. M. D. S. Clock+
9	T. M. D. S. Data1-	24	T. M. D. S. Clock-
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.)		

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.

### 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.)

### WARNING

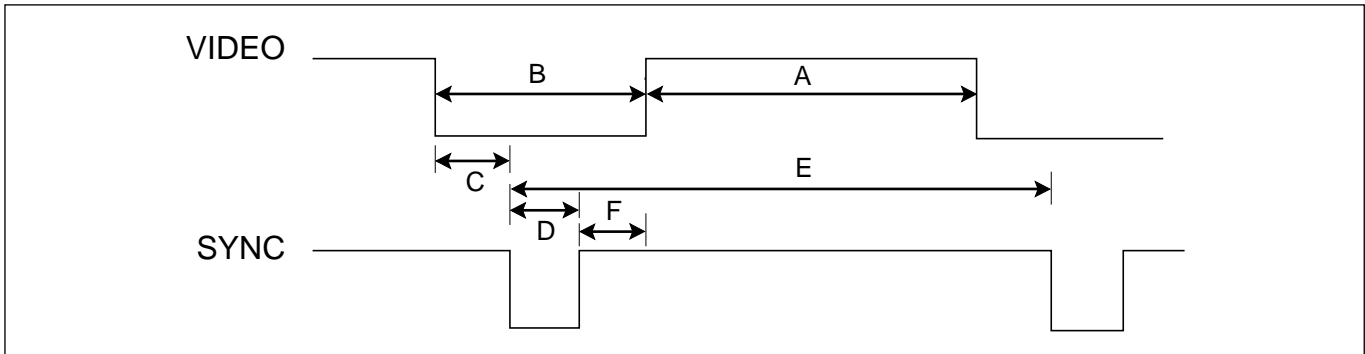
#### BE CAREFUL ELECTRIC SHOCK !

- 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.

### 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	

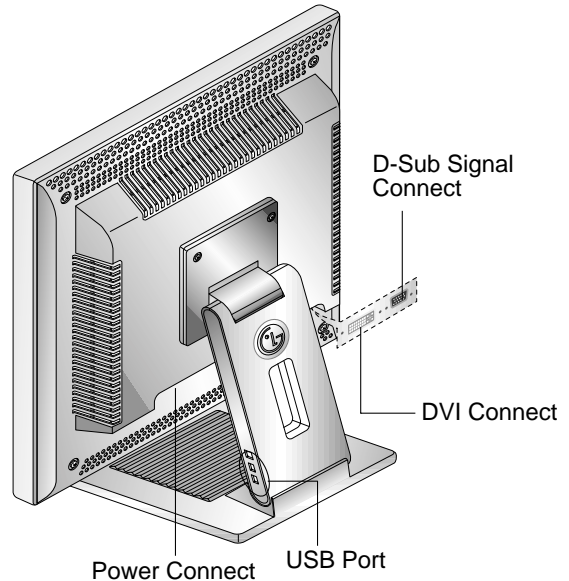
# OPERATING INSTRUCTIONS

## FRONT VIEW

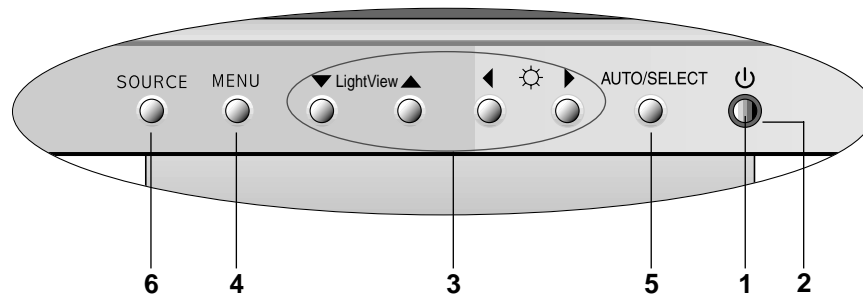


Front Control Panel

## REAR VIEW



## Front Control Panel



### 1. Power ON/OFF Button

Use this button to turn the monitor on or off.

### 2. Power Indicator

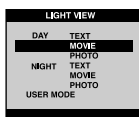
This indicator lights up green when the monitor operates normally. If the display is in DPM(Energy Saving)mode, this indicator color change to amber.

### 3. ▼▲◀▶ Button

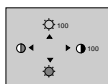
Use these buttons to choose or adjust items in the On Screen Display.

#### ▼ LightView ▲

This function optimizes the brightness, contrast or color value to the surrounding conditions and settings and enables you to enjoy the most suitable picture by adjusting the surroundings (DAY/NIGHT/USER MODE).



- TEXT: For viewing letters
- MOVIE: For viewing movies
- PHOTO: For viewing pictures or the photographs
- USER MODE: This function memorizes the manual adjustment -Brightness, Contrast and Color value on the On Screen Display.



Bring up Contrast and Brightness adjustment.

◀ ◉ ▶ → ▼▲◀▶ → MENU

### 4. MENU Button

Use this button to enter or exit the On Screen Display.

### 5. AUTO/SELECT Button

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



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.



#### CONTROLS LOCKED/UNLOCKED

: MENU and ►



This function allows you to secure the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button and ► button for 3 seconds: the message “**CONTROLS LOCKED**” appears.

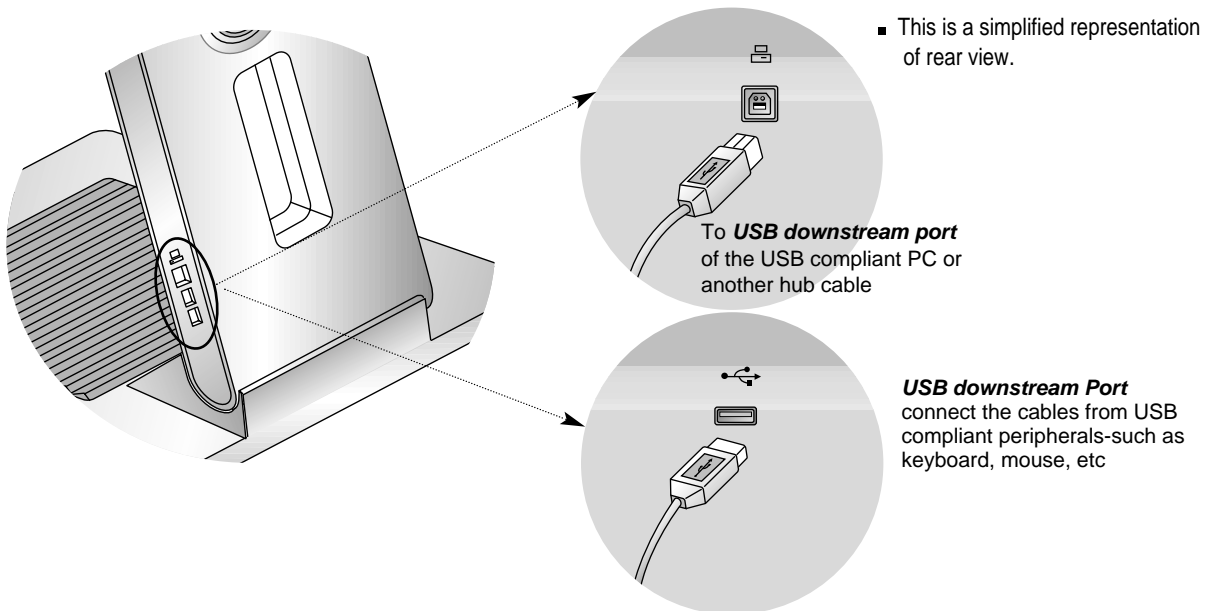
You can unlock the OSD controls at any time by pushing the MENU button and ► button for 3 seconds: the message “**CONTROLS UNLOCKED**” will appear.

### 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 Play 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.

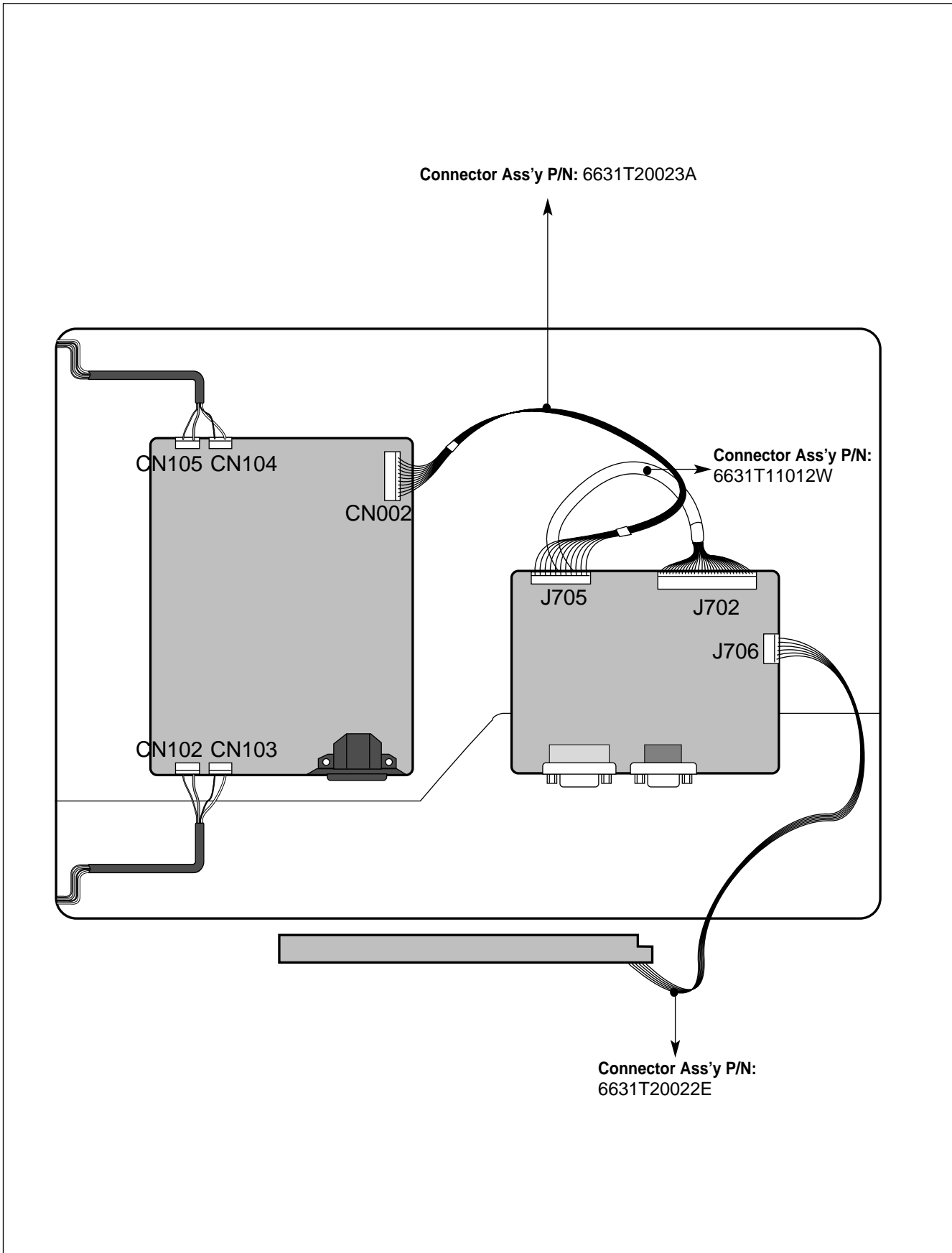


#### NOTE

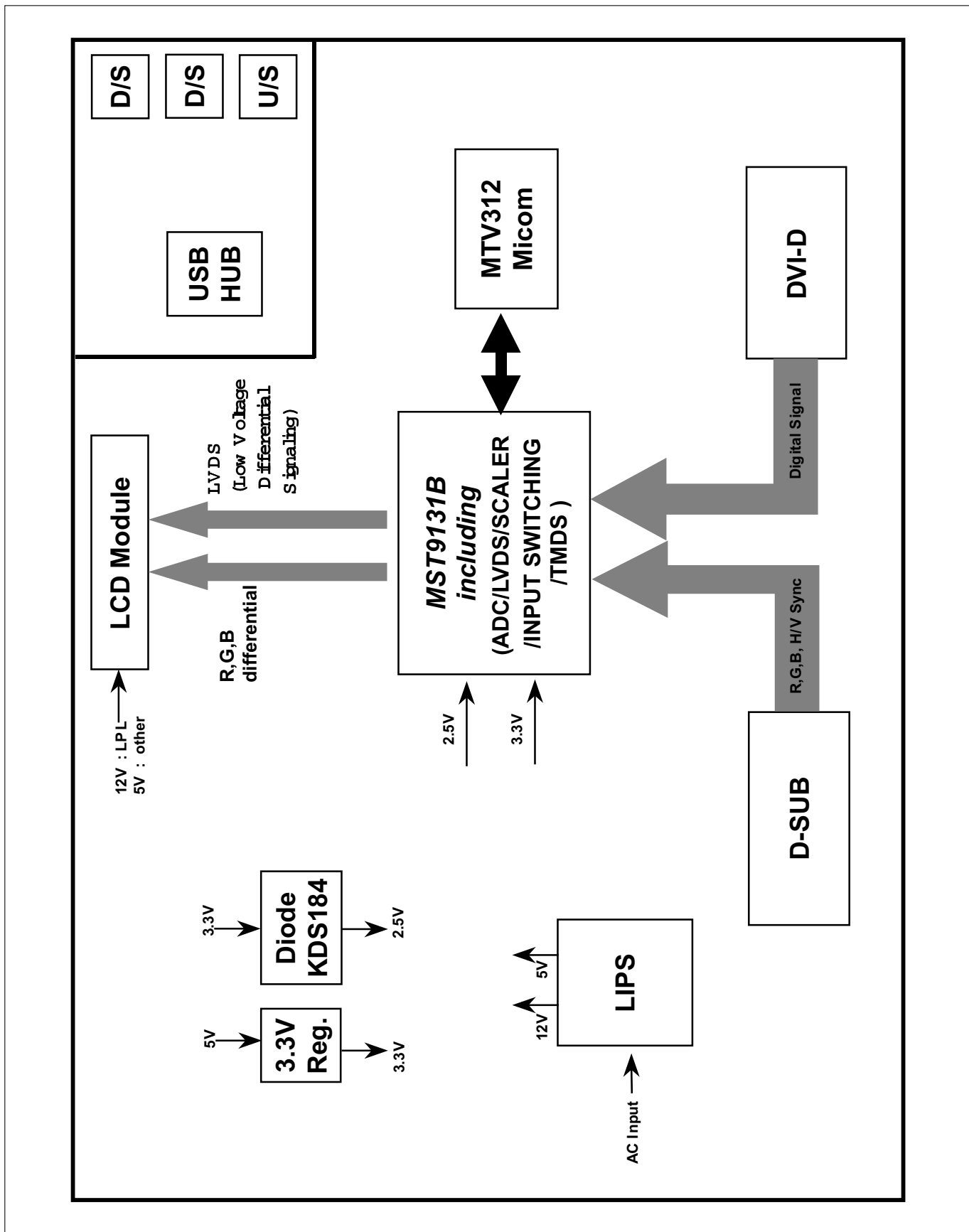
- To activate the USB hub function, the monitor must be connected to a USB compliant PC(OS) or another hub with the USB cable(enclosed).
- When connecting the USB cable, check that the shape of the connector at the cable side matches the shape at the connecting side.
- Even if the monitor is in a power 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. 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 pixel clock.

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, ADC and TMDS receiver .

The Scaler gets the video signal converted analog to digital, interpolates input to 1280 X 1024 resolution signal and outputs 8-bit R, G, B signal to transmitter.

### 2. Power Part.

This part consists of the one 3.3V regulator, and two 2.5V drop diodes to convert power which is provided 12V, 5V in Power board.

5V is provided for LCD panel and Micom. In case of LPL panel, 12V is provided for LCD panel.

Also, 5V is converted 3.3V by regulator and 3.3V is converted 2.5V by drop diode.

Converted power is provided for IC in the main board.

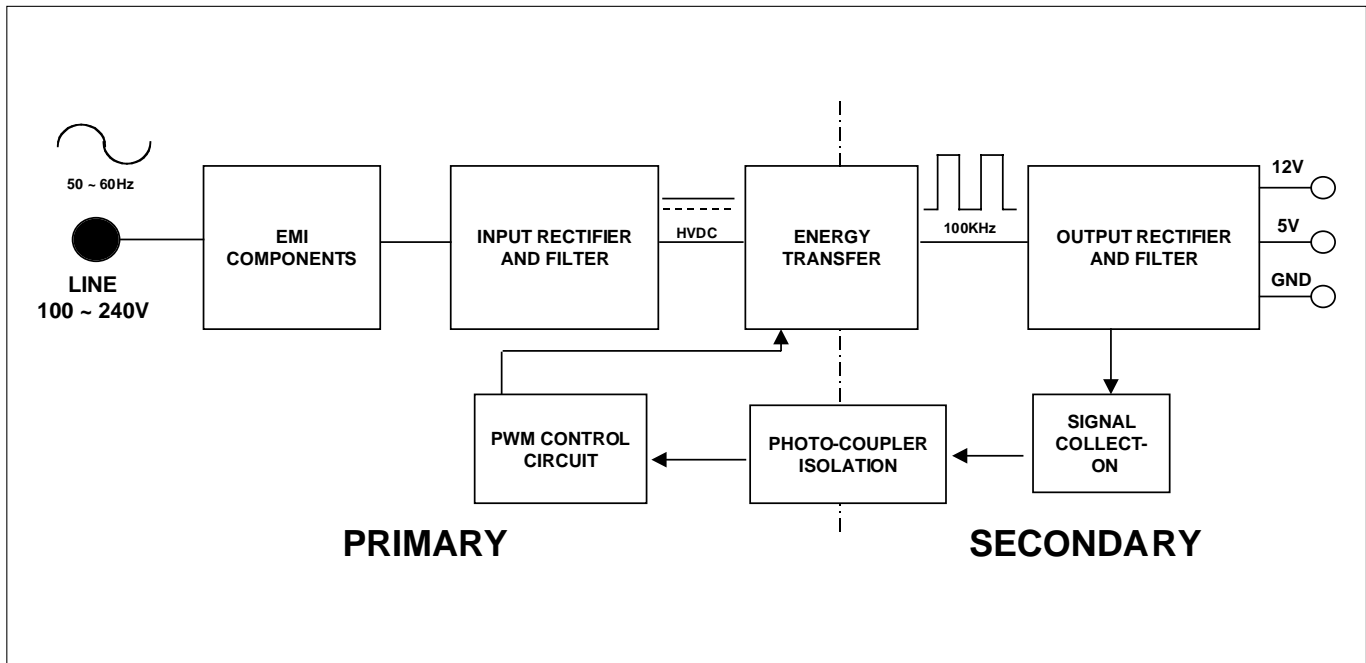
### 3. MICOM Part.

This part consists of EEPROM IC which stores control data, Reset IC and the Micom.

The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.

The controlled data of each modes is stored in EEPROM.

## LIPS Board Block Diagram



### Operation description\_LIPS

#### 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 for 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 stabilized, 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.

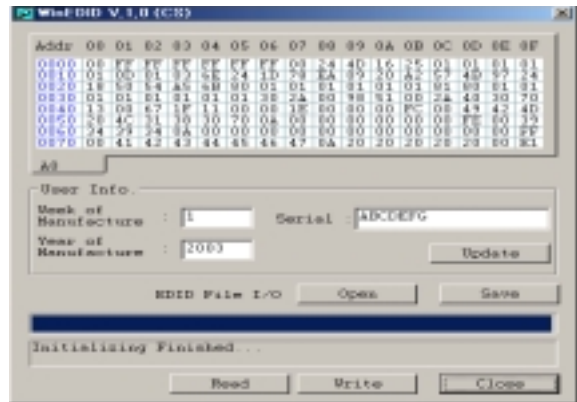
This part function is to collect the any change from the dc output and feed back to the primary through photo transistor

# ADJUSTMENT

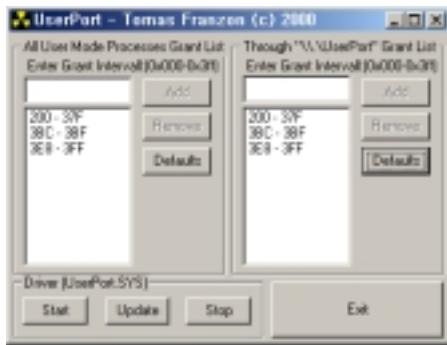
Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP  
 Port Setup: Windows 98 => Don't need setup  
 Windows 2000, XP => Need to Port Setup.  
 This program is available to LCD Monitor only.

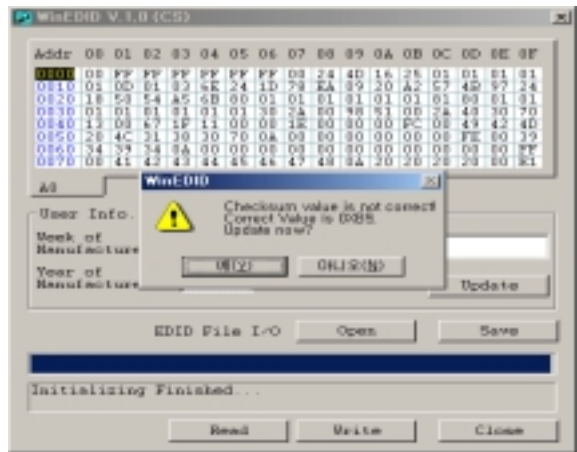
2. EDID Read & Write
  - 1) Run WinEDID.exe



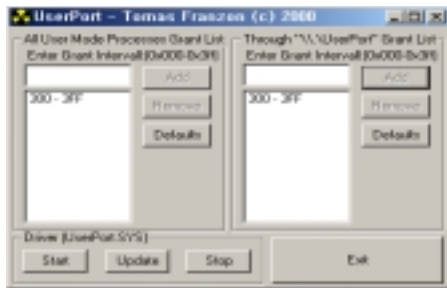
1. Port Setup
  - a) Copy "UserPort.sys" file to "c:\WINNT\system32\drivers" folder
  - b) Run Userport.exe



- 2) Edit Week of Manufacture, Year of Manufacture, Serial Number
  - a) Input User Info Data
  - b) Click "Update" button
  - c) Click " Write" button



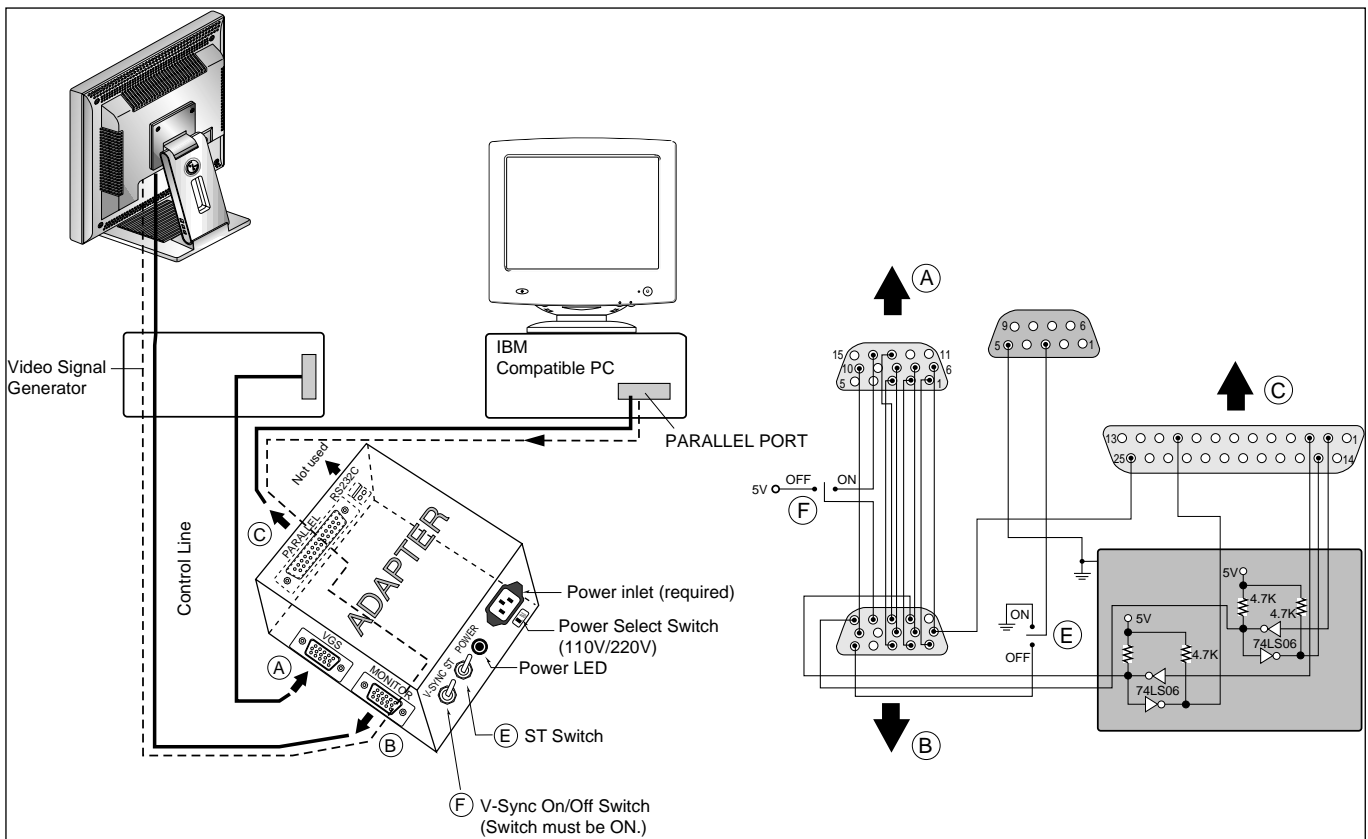
- c) Remove all default number
- d) Add 300-3FF



- e) Click Start button.
- f) Click Exit button.

## SERVICE OSD

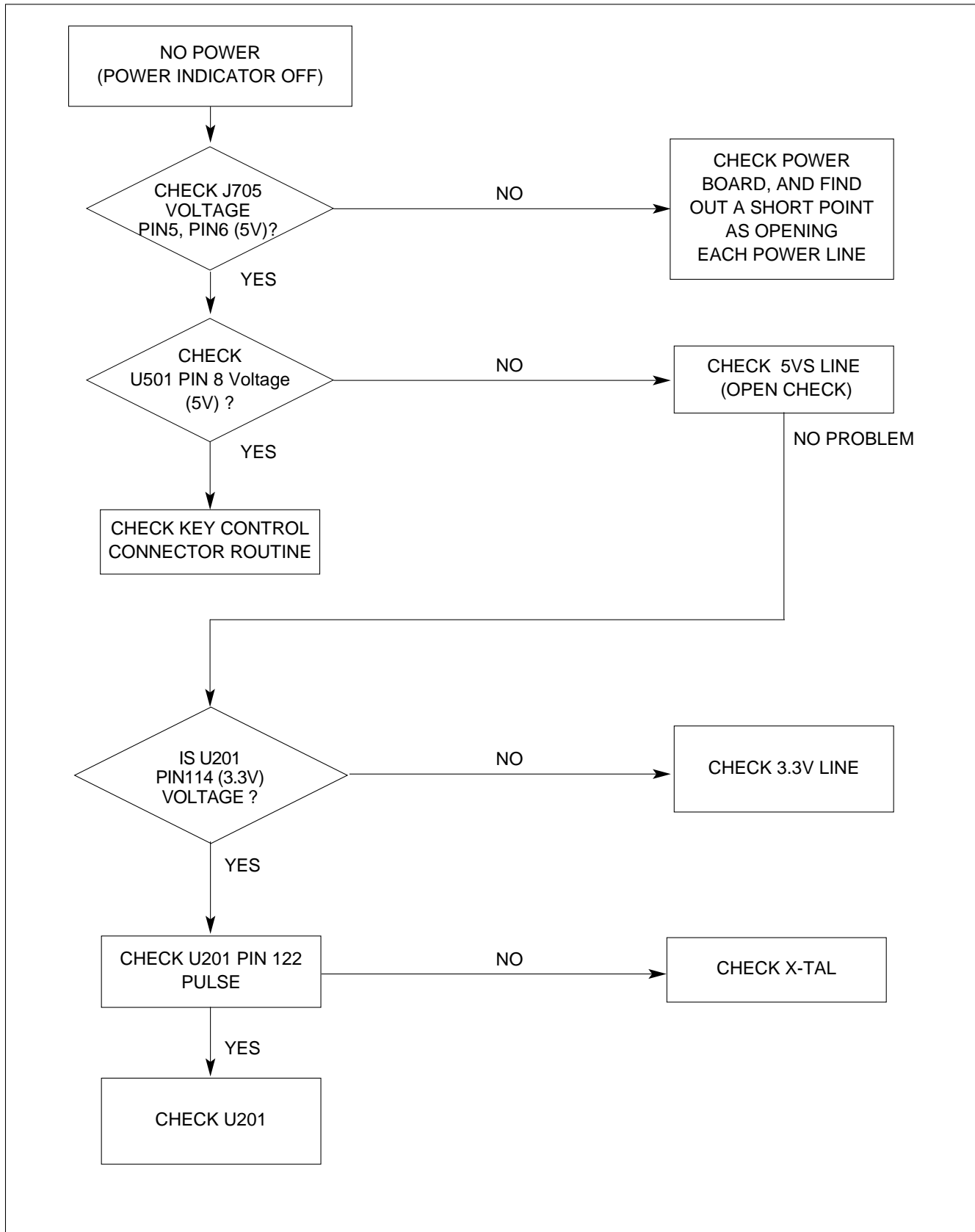
- 1) Turn off the power switch at the front side of the display.
- 2) Wait for about 3 seconds and press MENU, POWER switch with 1 second interval.
- 3) The SVC OSD menu contains additional menus that the User OSD menu as described below.
  - a) MODULE : To select applied module.
  - b) NVRAM INIT : EEPROM initialize(24C08)
  - c) ADC OFFSET : The lowest value of input levels sets to digitally 0(zero).
  - d) ADC GAIN : The highest value of input levels sets to digitally 255.
  - e) ADC CAL : W/B balance sets the gain and offset value.
  - f) ELAPSED CLEAR : To initialize using time.



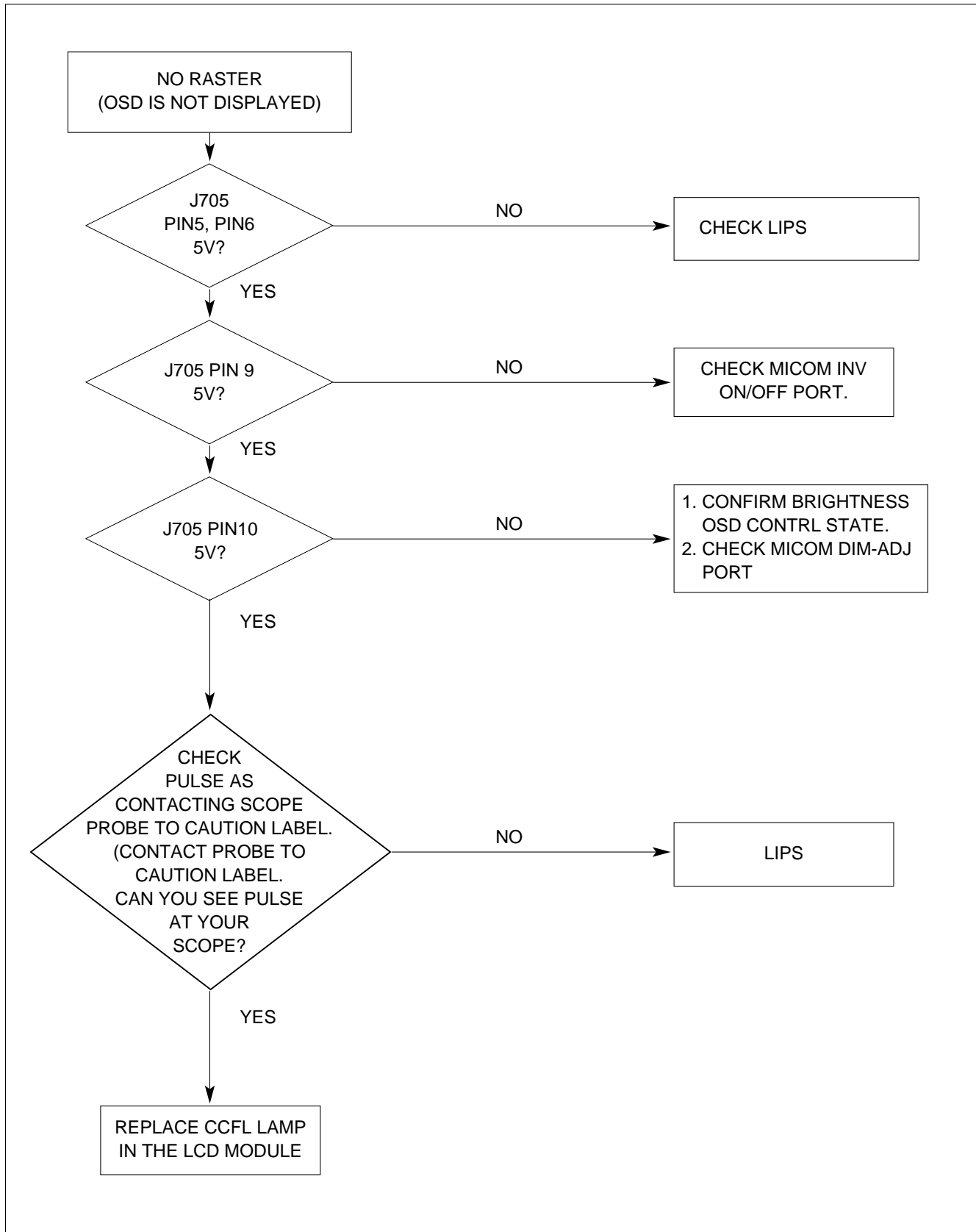
**Figure 1. Cable Connection**

# TROUBLESHOOTING GUIDE

## 1. NO POWER

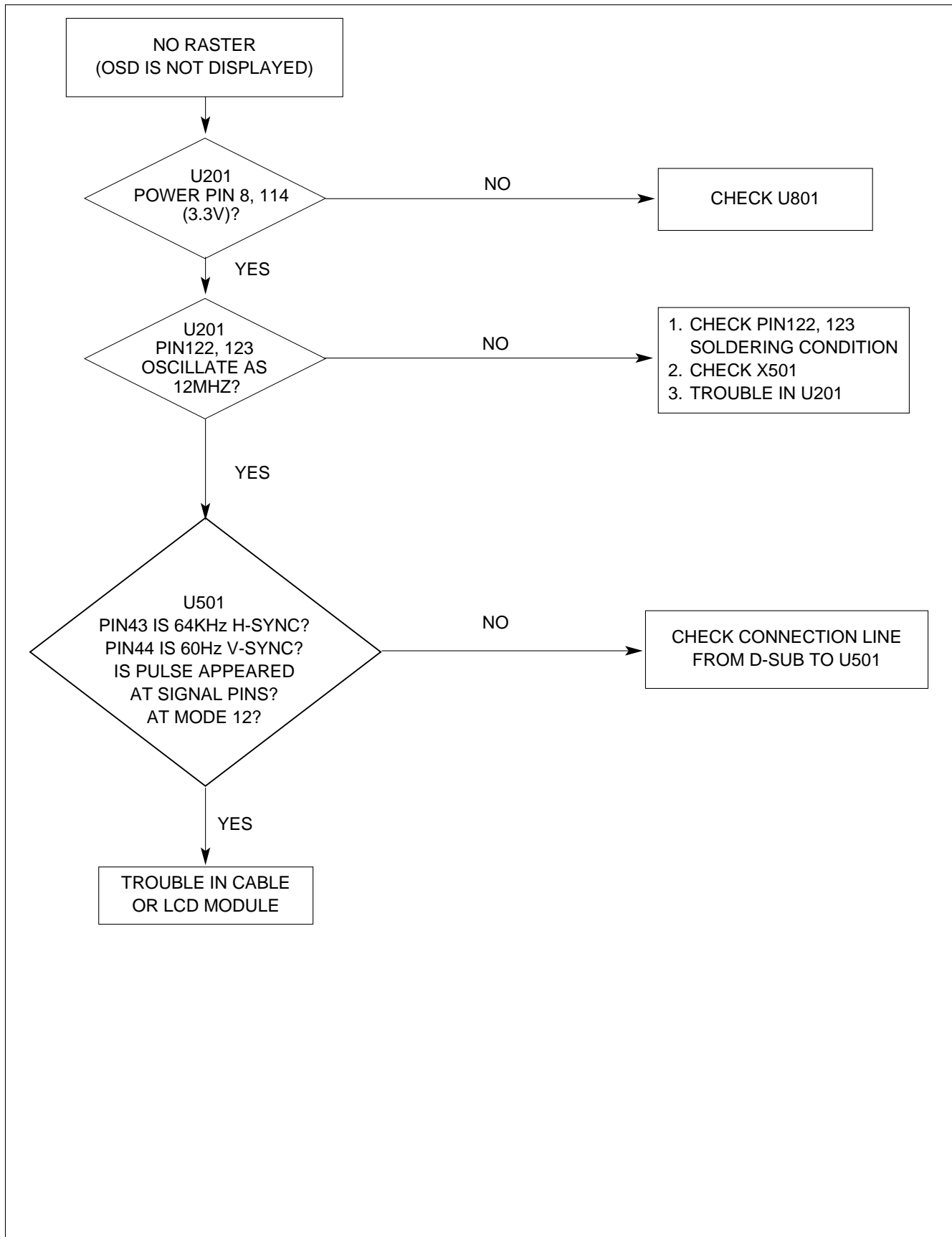


## 2. NO RASTER (OSD IS NOT DISPLAYED) – LIPS

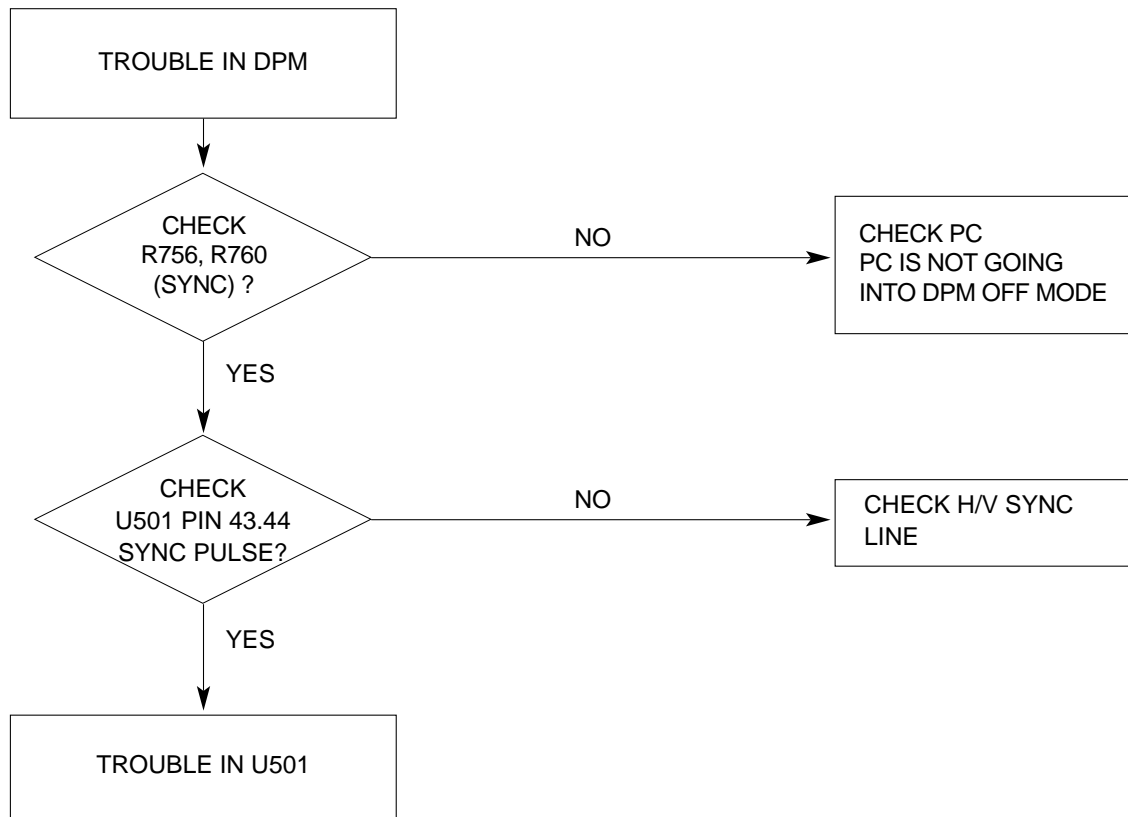




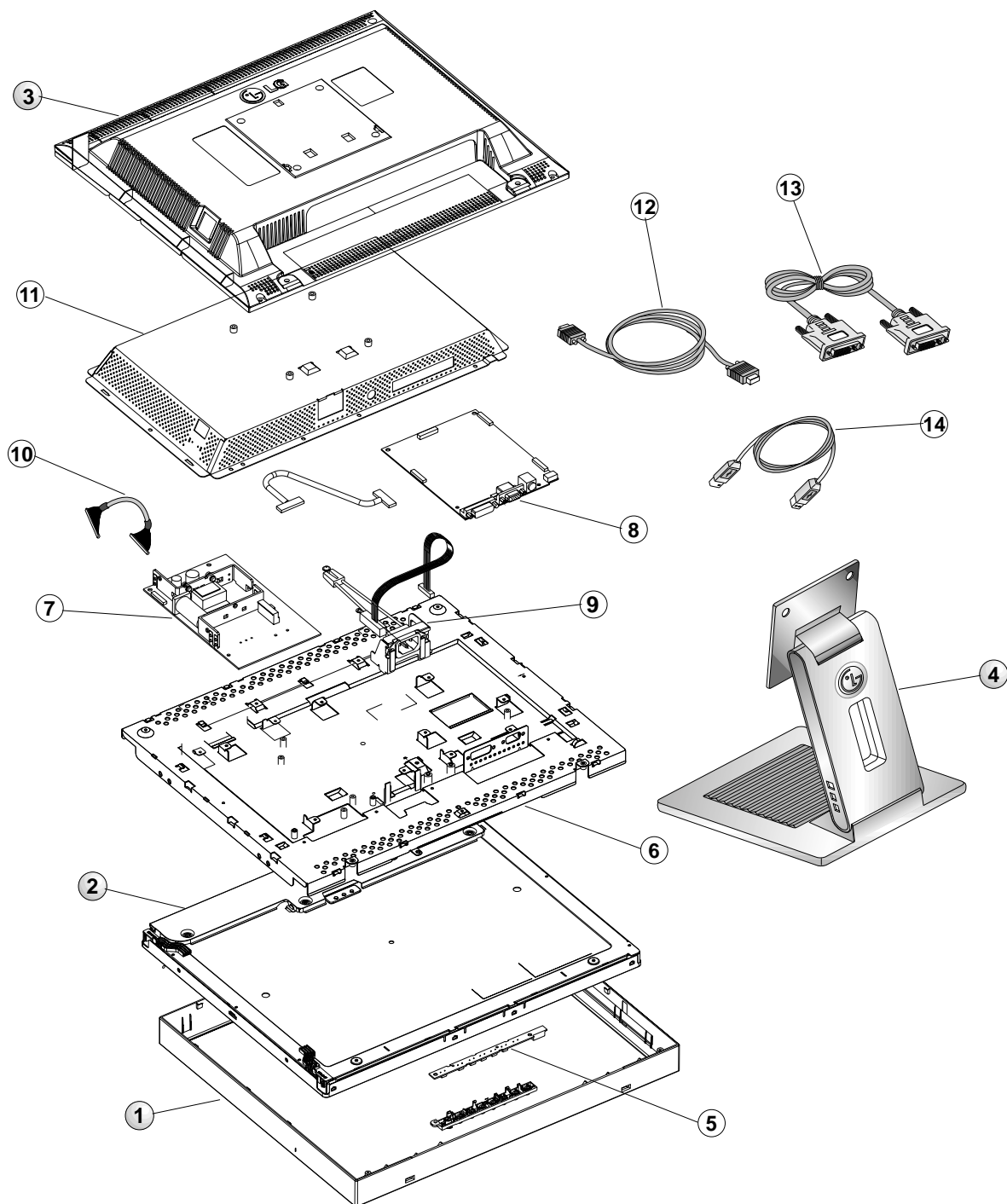
### 3. NO RASTER (OSD IS NOT DISPLAYED) – MST9131B



#### 4. TROUBLE IN DPM



EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKL072P	CABINET ASSEMBLY, L1910B BRAND L067 HF350U SILVER( <b>TCO03</b> )
	3091TKL096H	CABINET ASSEMBLY, L1910B BRAND TKL067 ABS AF-350U <b>TCO03 AUSTRIA</b>
	3091TKL096M	CABINET ASSEMBLY, L1910B BRAND TKL067 PC+ABS <b>TCO03, USA/CANADA</b>
	3091TKL096S	CABINET ASSEMBLY, L1910BM BRAND TKL067 <b>BK</b> VERSION PC+ABS <b>TCO99, USA/CANADA</b>
2	6304FLP075A	LCD(LIQUID CRYSTAL DISPLAY) , LM190E01-C4 LG PHILIPS TFT COLOR 4LAMP 250NIT
3	3809TKL051A	BACK COVER ASSEMBLY, L1910B,P L053 BRAND HF350U(87074)
	3809TKL051K	BACK COVER ASSEMBLY, L1910B TKL053 PC+ABS <b>TCO03, USA/CANADA</b>
	3809TKL051Q	BACK COVER ASSEMBLY, L1910BM TKL053 <b>BK</b> VERSION PC+ABS <b>TCO99, USA/CANADA</b>
4	3043TKK091Q	TILT SWIVEL ASSEMBLY, L1810BL/L1710BL , USB
	3043TKK091V	TILT SWIVEL ASSEMBLY, L1910B(PANAR) K254 60HR 9930(EK00) <b>BLACK TCO99, USA/CANADA</b>
5	6871TST415A	PWB(PCB) ASSEMBLY,SUB, L1910 L1810 CONTROL TOTAL BRAND CONTROL
6	4951TKS126G	METAL ASSEMBLY, FRAME L1910B/PM LPL/CMO/FUSITSU(226G)
7	6871TPT271E	PWB(PCB) ASSEMBLY,POWER, 19" M-CHASSIS POWER TOTAL LIEN CHANG " INTEGRATED LIPS" USED 7812
	6871TPT271V	PWB(PCB) ASSEMBLY,POWER, M-CHASSIS 19LPL DOCKING,2PIN,78R12,450V POWER TOTAL LIEN CHANG <b>TCO99, USA/CANADA</b>
8	3313TL9025A	MAIN TOTAL ASSEMBLY, L1910BM LPL - E BRAND CL-62
	3313TL9025B	MAIN TOTAL ASSEMBLY, L1910BM LPL - K BRAND CL-62 <b>JAPAN</b>
9	6871TKT294A	PWB(PCB) ASSEMBLY,INTERFACE, L1910BM ETC TOTAL BRAND AC INLET ASSY
10	6631T11012W	CONNECTOR ASSEMBLY, 30P H-H 200MM UL20276 LG708G
11	4951TKS118D	METAL ASSEMBLY, REAR SHIELD L1910B,P,S
12	6850TD9004J	CABLE,D-SUB UL20276-9C(5.8MM), DT 1500MM,CORE POS400MM GRAY(85964) L1720BM DM
	or 6850TD9004D	CABLE,D-SUB UL20276-9C(5.8MM), DT 1500MM GRAY(85964) LB500L DM
	6850TD9004G	CABLE,D-SUB UL20276-9C(5.8MM), DT 1800MM <b>BLACK</b> (9930) SONY DM <b>TCO99, USA/CANADA</b>
13	6866TDU002D	CABLE,D-SUB UL20276SB10P+2C AWG#30 DT 1870MM <b>GRAY</b> (85964) BRAND DM
	6866TDU002A	CABLE,D-SUB, UL20276 DT 1870MM <b>BLACK</b> LQ800 DM
14	6866TDV004C	CABLE,DVI, UL20276 DT 2000MM <b>GRAY</b> (85964) LB885C DM
	6866TDV004K	CABLE,DVI, UL20276 DT 2000MM <b>BLACK</b> (9930) LB886F W/SR DM <b>TCO99, USA/CANADA</b>

# 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: 2004. 3. 24.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
<b>MAIN BOARD</b>				
<b>CAPACITORS</b>				
			C204	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C205	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C206	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C207	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C208	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C209	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C210	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C211	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	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C218	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C219	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C220	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			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
			C230	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			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
			C240	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C251	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C501	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C502	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C503	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C504	0CH8106F611 10UF 16V M 85STD(CYL) R/TP
			C506	0CC030CK01A 3PF 1608 50V 0.25 PF R/TP NP0
			C507	0CC180CK41A 18PF 1608 50V 5% R/TP NP0
			C508	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C701	0CK105CD56A 1UF 1608 10V 10% R/TP X7R
			C703	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C707	0CC680CK41A 68PF 1608 50V 5% R/TP NP0
			C708	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C709	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C710	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C711	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C712	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C713	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C714	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C717	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C718	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C719	0CC680CK41A 68PF 1608 50V 5% R/TP NP0
			C720	0CC101CK41A 100PF 1608 50V 5% R/TP NP0
			C721	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C722	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			C723	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C724	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C725	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C726	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C727	0CK105CD56A 1UF 1608 10V 10% R/TP X7R
			C728	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C732	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C733	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C734	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C735	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C737	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C738	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C739	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C740	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C741	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C742	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C743	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C760	0CE107EF610 "100UF KMG,RD 16V 20% FL BULK"
			C801	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C803	0CE107EF610 "100UF KMG,RD 16V 20% FL BULK"
			C804	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C805	0CK105CD56A 1UF 1608 10V 10% R/TP X7R
			C806	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C807	0CE107EF610 "100UF KMG,RD 16V 20% FL BULK"
			C808	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C809	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C810	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C812	0CE107EF610 "100UF KMG,RD 16V 20% FL BULK"
			C814	0CE107EF610 "100UF KMG,RD 16V 20% FL BULK"
			C815	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C816	0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y5)
			C817	0CK104CK56A 0.1UF 1608 50V 10% R/TP X7R
			C818	0CC102CK41A 1000PF 1608 50V 5% R/TP NP0
<b>DIODEs</b>				
			D701	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D702	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D706	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D708	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D709	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D710	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D711	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D712	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D713	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D714	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D715	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D719	0DD184009AA KDS184 TP KEC - 85V - - - 300
			D720	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D721	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D722	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D723	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D724	0DS226009AA KDS226 TP KEC SOT-23 80V 300
			D725	0DS226009AA KDS226 TP KEC SOT-23 80V 300

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D804	0DD184009AA	KDS184 TP KEC - 85V - - - 300
		D805	0DD184009AA	KDS184 TP KEC - 85V - - - 300
		ZD701	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD702	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD703	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD704	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD705	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD706	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD709	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD711	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
		ZD712	0DZ560009GB	BZT52C5V6S DIODES R/TP SOD323
<b>ICs</b>				
		U201	0IPRPM3011B	"MST9131B(DUAL) MSTAR 128P,LQF"
		U501	0IZZTSZ330A	MYSON 44P MTV512 L1910BM - E
		U502	0ISG240860B	M24C08W6 SGS-THOMSON 8SOP R/T
		U703	0IMMRSG036A	"M24C02-WMN6T SGS-THOMSON 8P,S"
		U801	0IPMGKE011A	KIA78D33F KEC DPAK R/TP 3.3V
		U802	0TFVI80036A	SI3861DV VISHAY R/TP TSOP-6 4
<b>TRANSISTOR</b>				
		Q502	0IKE704200H	KIA7042AP TO-92 TP 4.2 VOLT.
		Q503	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q504	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q505	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q703	0TR390609FA	KST3906-MTF TP SAMSUNG SOT23
		Q704	0TR390609FA	KST3906-MTF TP SAMSUNG SOT23
		Q706	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q707	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
<b>RESISTORS</b>				
		R201	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R202	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R203	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R210	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R216	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R217	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R220	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R240	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R501	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R506	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R508	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R512	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R513	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R514	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R515	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R516	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R518	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R519	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R520	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R521	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R522	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R523	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R524	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R525	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R526	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

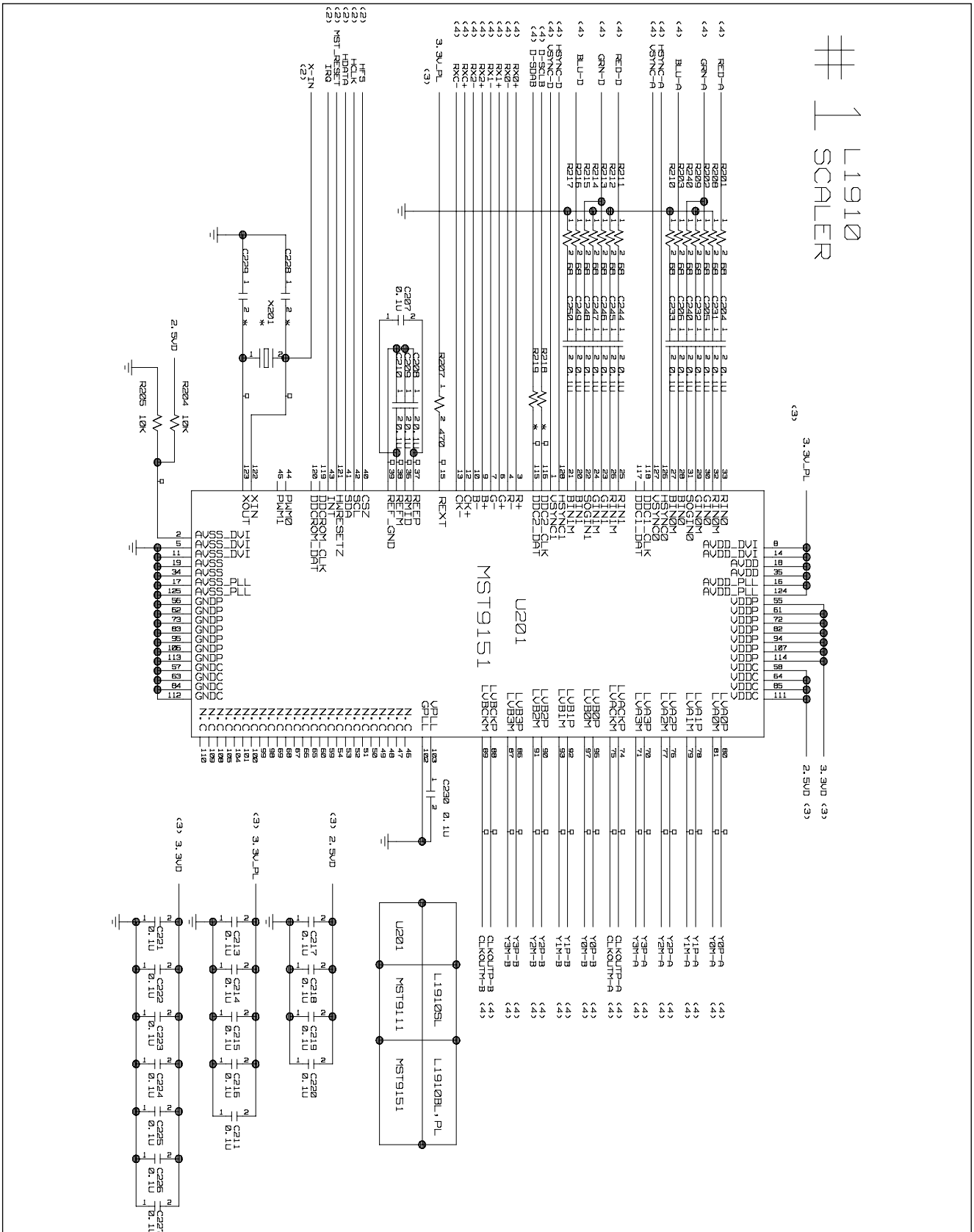
DATE: 2004. 3. 24.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R527	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R528	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R529	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R530	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R531	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R532	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R534	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R535	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R537	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R541	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R542	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R543	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R544	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R545	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R546	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R547	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R548	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R549	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R555	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R556	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R557	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R560	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/TP
		R561	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R562	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R563	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R564	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R702	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R703	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R704	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R706	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R708	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R709	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R712	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R713	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R716	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R717	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R720	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R723	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R724	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R726	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R727	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R728	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R729	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R730	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R731	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R737	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R744	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R745	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R747	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R748	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R755	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R756	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R759	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R760	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R762	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R763	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R764	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R765	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R766	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R769	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R772	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R773	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R774	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R775	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R776	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R777	0RJ0122D677	12 OHM 1/10 W 5% 1608 R/TP
		R778	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R807	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R808	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R811	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R812	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R814	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R815	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R820	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R821	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R822	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
<b>OTHERS</b>				
		X501	6212AA2004A	HC-49U TXC 12.0MHZ +/- 30 PPM
<b>CONTROL BOARD</b>				
		LED1	0DLLT0208AA	LITEON LTST-C155KGJSKT R/TP G
		R1	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R2	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R3	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R4	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R5	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R6	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R7	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R8	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		SW1	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW2	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW3	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW4	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW5	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW6	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW7	140-058E	SKHV10910B LGEC NON 12V 20A H
		SW8	140-058E	SKHV10910B LGEC NON 12V 20A H
<b>USB BOARD</b>				
		C801	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C803	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C805	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C806	0CE107EF638	100UF KMG 16V M FM5 TP 5
		C807	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C808	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C809	0CH6330K416	33PF 50V J NP0 2012 R/TP
		C810	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C812	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C813	0CH3103K516	10000PF 50V 10% B(Y5P) 2012 R
		C820	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C821	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C822	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C823	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C831	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C832	0CH6470K416	47PF 50V 5% NP0 2012 R/TP
		C850	0CN1040K949	0.1M 50V Z F TA52
		C851	0CN1040K949	0.1M 50V Z F TA52
		IC801	0IPH112200C	"ISP1122ABD 32P,LQFP R/TP USB"

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
			IC802	0IT204200B	TPS2042ADR TEXAS INSTRUMENT 8
			L801	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
			L802	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
			L803	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
			L804	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L805	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L807	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L808	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L809	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L810	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L811	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			L812	6210TCE001H	HB-1T2012-301JT CERATEC 2012M
			R801	0RH1502D622	15K 1/10W 5 D.R/TP
			R802	0RH1502D622	15K 1/10W 5 D.R/TP
			R803	0RH1502D622	15K 1/10W 5 D.R/TP
			R804	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
			R805	0RD0222Q609	22 1/4W(3 5% TA52
			R806	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
			R807	0RH1502D622	15K 1/10W 5 D.R/TP
			R808	0RD0222Q609	22 1/4W(3 5% TA52
			R809	0RH1004D622	1.0M 1/10W 5 D.R/TP
			R810	0RH1004D622	1.0M 1/10W 5 D.R/TP
			R811	0RH1003D622	100K 1/10W 5 D.R/TP
			R812	0RH1003D622	100K 1/10W 5 D.R/TP
			R813	0RH1004D622	1.0M 1/10W 5 D.R/TP
			R814	0RH1004D622	1.0M 1/10W 5 D.R/TP
			R817	0RD0222Q609	22 1/4W(3 5% TA52
			R821	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
			R828	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
			R829	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
			R830	0RH1002D622	10K OHM 1 / 10 W 2012 5.00% D
			R835	0RH1003D622	100K 1/10W 5 D.R/TP
			R836	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
			R837	0RD3301Q509	3.3K OHM 1/4 W (3.4) 2% TA52
			R841	0RD1502Q609	15K 1/4W(3 5% TA52
			R842	0RD1502Q609	15K 1/4W(3 5% TA52
			R850	0RD1502Q609	15K 1/4W(3 5% TA52
			R851	0RD1502Q609	15K 1/4W(3 5% TA52
			X801	6202TTB002B	ATS-49U SUNNY RADIAL 6MHZ 30
			ZD801	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD802	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD803	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD804	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD805	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD806	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323 2
			ZD807	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 2
			ZD811	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 2
			ZD812	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323 2

# SCHEMATIC DIAGRAM

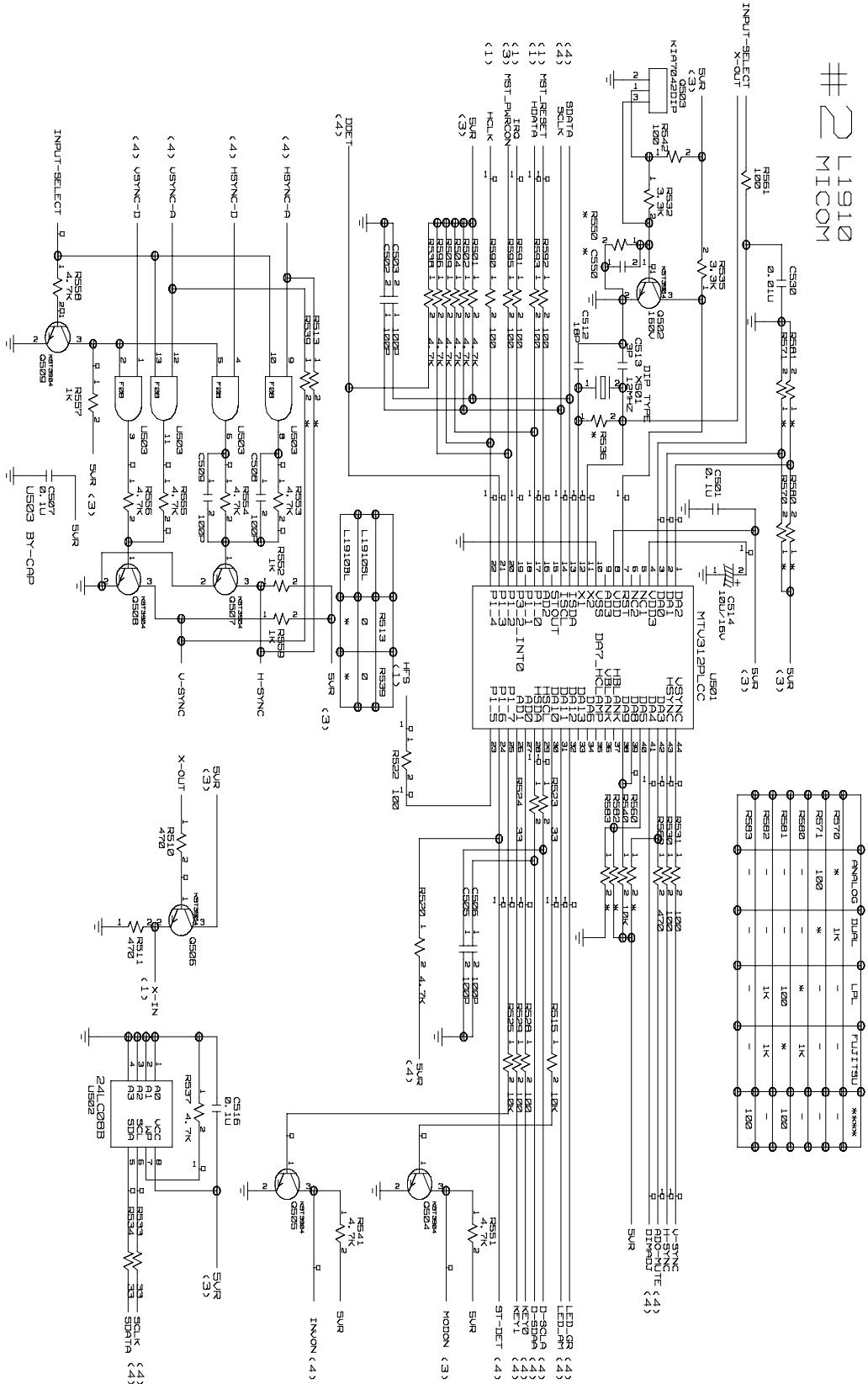
## 1. SCALER



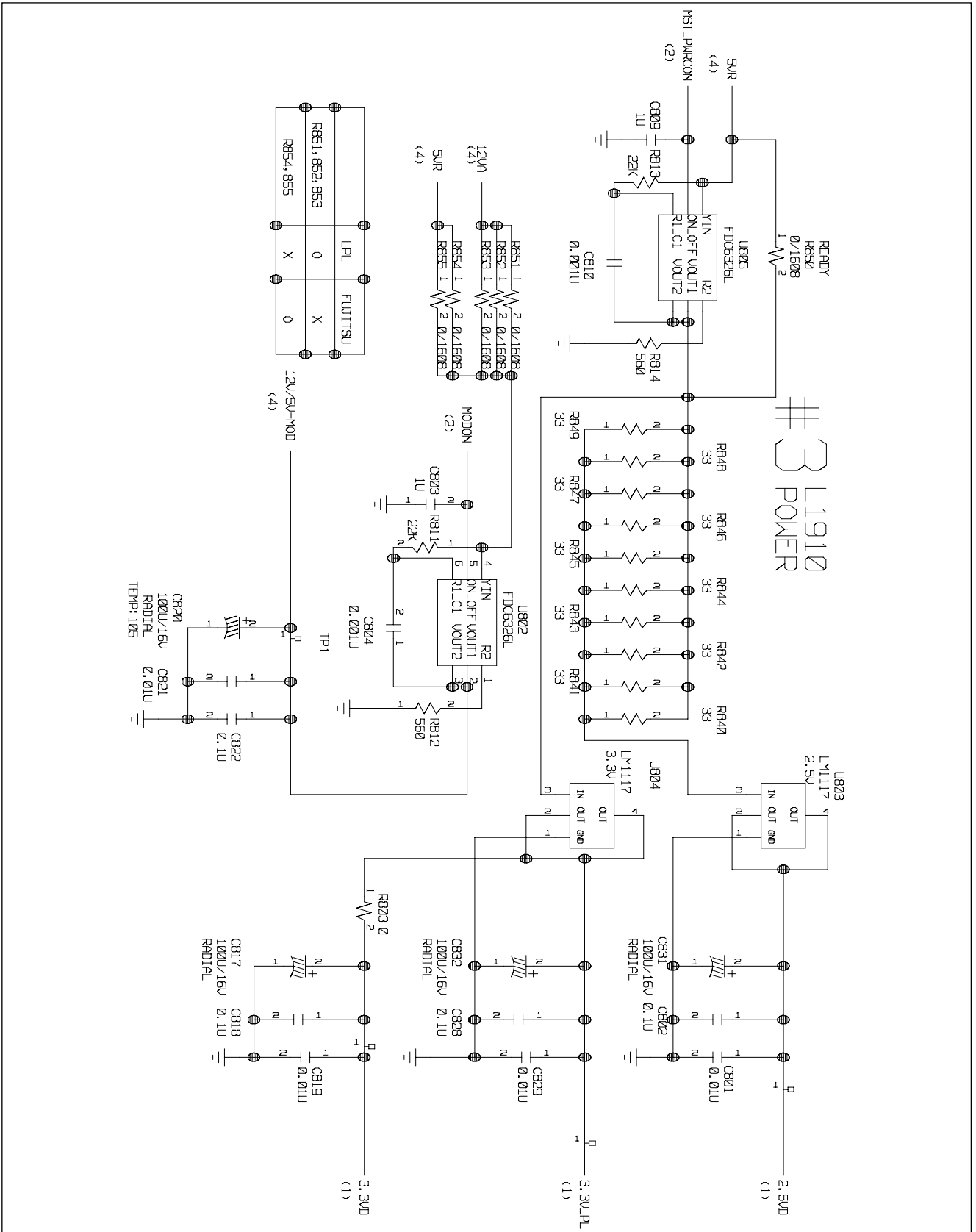


## 2. MICOM

#2 L1910  
MICOM

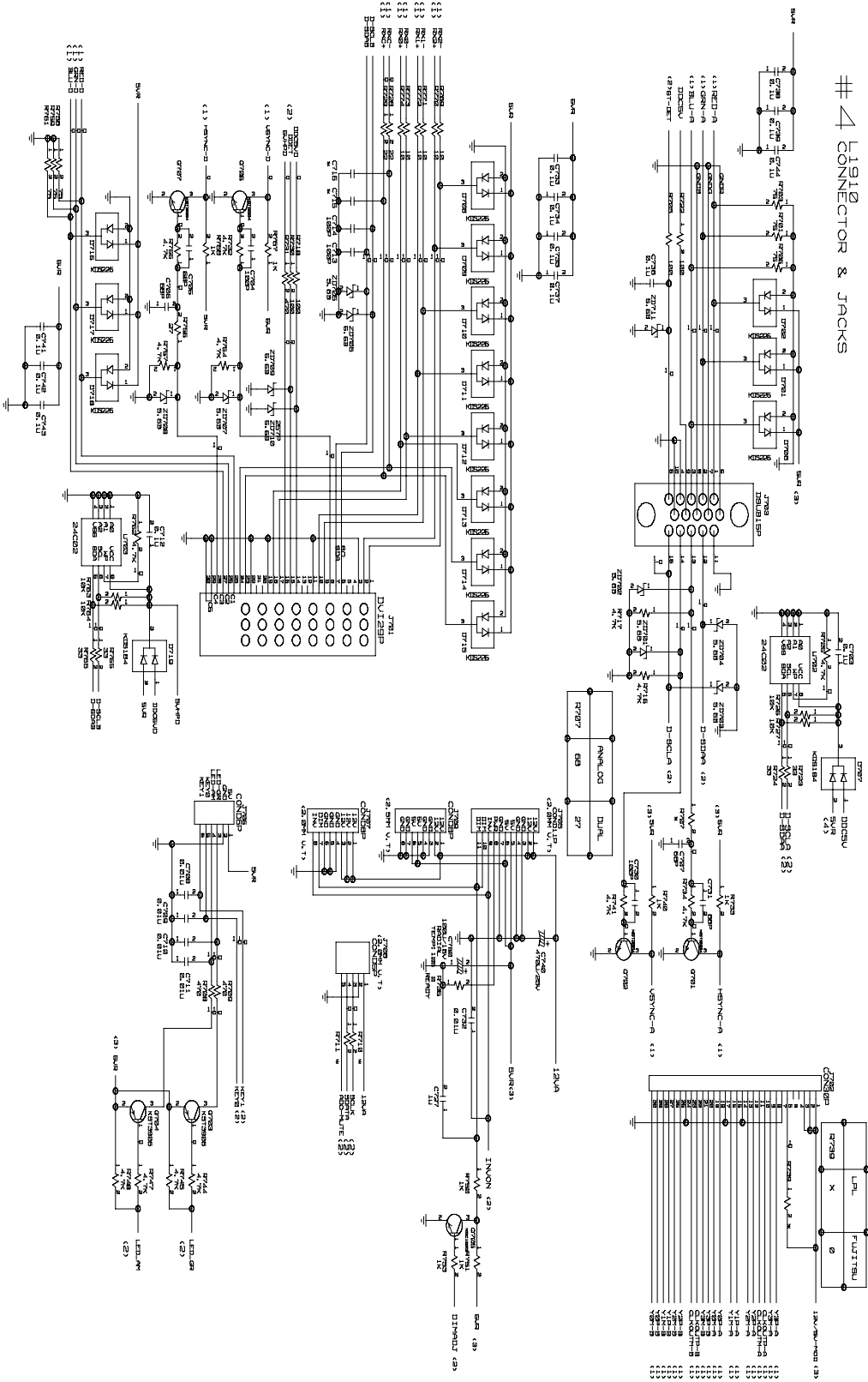


### 3. POWER



# 4. CONNECTOR/JACKS

## #4 CON1910 CONNECTOR & JACKS





P/NO : 3828TSL095L

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