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# COLOR MONITOR

# SERVICE MANUAL

CHASSIS NO. : CL-29

FACTORY MODEL: LB886F

**MODEL: FLATRON L1800PM (LB886F-SL)**

\*( ) 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 SXGA LCD  
 Size : 18inch  
 Pixel Pitch : 0.28(H) x 0.28(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  $\geq 10$

**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)

2-3. Contrast Ratio : 200(min)

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

3-1. Sync Signal

- Type : Separate TTL(Positive/Negative)  
 Composite TTL(Positive/Negative)  
 SOG (Sync On Green)  
 Digital

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  $\Omega$

3-3. Operating Frequency

Horizontal : 30 ~ 80kHz  
 Vertical : 56 ~ 85Hz

### 4. POWER SUPPLY

4-1. Power Input

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

4-2. Power Consumption

| MODE              | H/V SYNC | VIDEO  | POWER CONSUMPTION | LED COLOR |
|-------------------|----------|--------|-------------------|-----------|
| POWER ON (NORMAL) | ON/ON    | ACTIVE | less than 60 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 3 W     | OFF       |

### 5. ENVIRONMENT

5-1. Operating Temperature: 10°C~35°C (50°F~95°F)  
 (Ambient)

5-2. Relative Humidity : 10%~80%  
 (Non-condensing)

5-3. MTBF : 50,000 Hours(Min), Except Lamp

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

Width : 397 mm (15.62")  
 Depth : 237 mm (9.33")  
 Height : 428 mm (16.85") -Min  
 508 mm (19.99") -Max

### 7. WEIGHT (with SPEAKER)

Net. Weight : 8.8kg (19.40 lbs)  
 Gross Weight : 11.3kg (24.91 lbs)

### 8. USB


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

### 9. SPEAKER

.RMS Audio Output: 2W(R+L)  
 .Input Sensivity: 0.7Vrms  
 .Speaker Impedance: 4

## 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

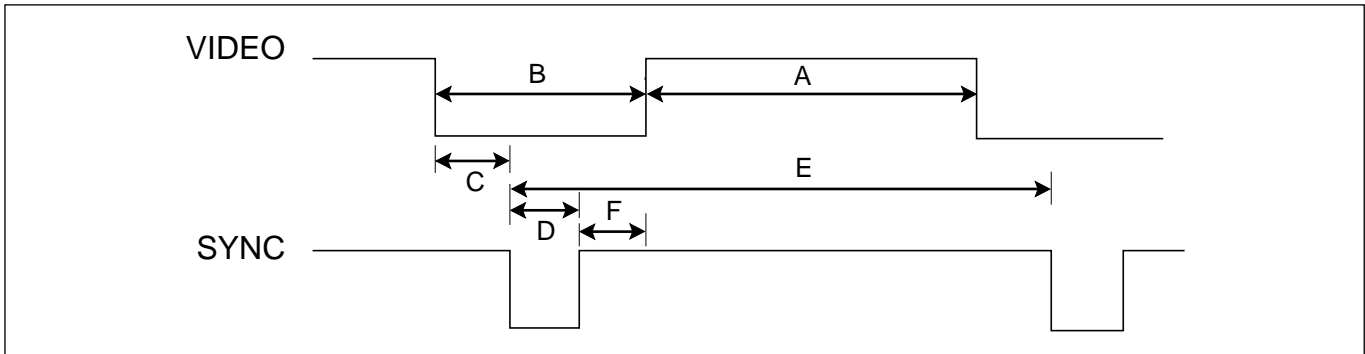
#### BE CAREFUL ELECTRIC SHOCK !

- 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

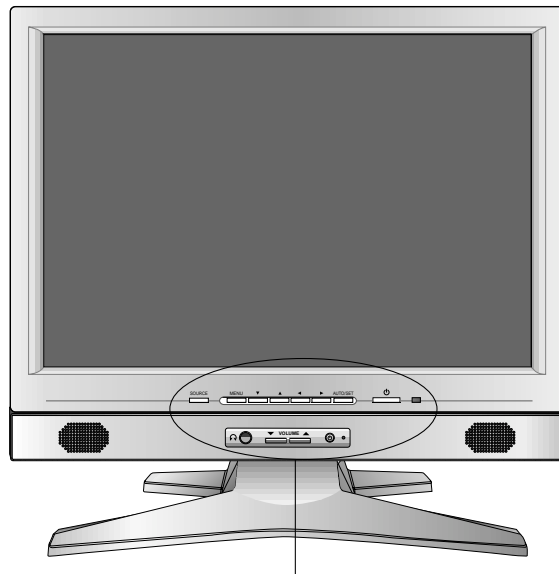


<< Dot Clock (MHz), Horizontal Frequency (kHz), Vertical Frequency (Hz), Horizontal etc... (μs), Vertical etc... (ms) >>

| 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<br>70Hz   |
|      | V        | -             |           | 70.8      | 449              | 350                   | 38              | 2                 | 59             |                   |
| 2    | H        | -             | 28.321    | 31.468    | 900              | 720                   | 18              | 108               | 54             | 720x400<br>70Hz   |
|      | V        | +             |           | 70.8      | 449              | 400                   | 12              | 2                 | 35             |                   |
| 3    | H        | -             | 25.175    | 31.469    | 840              | 640                   | 16              | 96                | 48             | 640x480<br>60Hz   |
|      | V        | -             |           | 59.94     | 525              | 480                   | 10              | 2                 | 33             |                   |
| 4    | H        | -             | 31.5      | 37.5      | 840              | 640                   | 16              | 64                | 120            | 640x480<br>75Hz   |
|      | V        | -             |           | 75        | 500              | 480                   | 1               | 3                 | 16             |                   |
| 5    | H        | -             | 36.0      | 43.269    | 832              | 640                   | 56              | 56                | 80             | 640x480<br>85Hz   |
|      | V        | -             |           | 85.0      | 509              | 480                   | 1               | 3                 | 25             |                   |
| 6    | H        | +             | 40.0      | 37.879    | 1056             | 800                   | 40              | 128               | 88             | 800x600<br>60Hz   |
|      | V        | +             |           | 60.317    | 628              | 600                   | 1               | 4                 | 23             |                   |
| 7    | H        | +             | 49.5      | 46.875    | 1056             | 800                   | 16              | 80                | 160            | 800x600<br>75Hz   |
|      | V        | +             |           | 75.0      | 625              | 600                   | 1               | 3                 | 21             |                   |
| 8    | H        | +             | 56.25     | 53.674    | 1048             | 800                   | 32              | 64                | 152            | 800x600<br>85Hz   |
|      | V        | +             |           | 85.061    | 631              | 600                   | 1               | 3                 | 27             |                   |
| 9    | H        | +/-           | 57.283    | 49.725    | 1152             | 832                   | 32              | 64                | 224            | 832x624<br>75Hz   |
|      | V        | +/-           |           | 74.55     | 667              | 624                   | 1               | 3                 | 39             |                   |
| 10   | H        | -             | 65.0      | 48.363    | 1344             | 1024                  | 24              | 136               | 160            | 1024x768<br>60Hz  |
|      | V        | -             |           | 60.0      | 806              | 768                   | 3               | 6                 | 29             |                   |
| 11   | H        | -             | 78.75     | 60.123    | 1312             | 1024                  | 16              | 96                | 176            | 1024x768<br>75Hz  |
|      | V        | -             |           | 75.029    | 800              | 768                   | 1               | 3                 | 28             |                   |
| 12   | H        | +             | 94.5      | 68.677    | 1376             | 1024                  | 48              | 96                | 208            | 1024x768<br>85Hz  |
|      | V        | +             |           | 84.997    | 808              | 768                   | 1               | 3                 | 36             |                   |
| 13   | H        | +/-           | 100.0     | 68.681    | 1456             | 1152                  | 32              | 128               | 144            | 1152x870<br>75Hz  |
|      | V        | +/-           |           | 75.062    | 915              | 870                   | 3               | 3                 | 39             |                   |
| 14   | H        | +/-           | 92.978    | 61.805    | 1504             | 1125                  | 18              | 134               | 200            | 1152x900<br>65Hz  |
|      | V        | +/-           |           | 65.96     | 937              | 900                   | 2               | 4                 | 31             |                   |
| 15   | H        | +             | 108.0     | 63.981    | 1688             | 1280                  | 48              | 112               | 248            | 1280x1024<br>60Hz |
|      | V        | +             |           | 60.02     | 1066             | 1024                  | 1               | 3                 | 38             |                   |
| 16   | H        | +             | 135.0     | 79.976    | 1688             | 1280                  | 16              | 144               | 248            | 1280x1024<br>75Hz |
|      | V        | +             |           | 75.035    | 1066             | 1024                  | 1               | 3                 | 38             |                   |

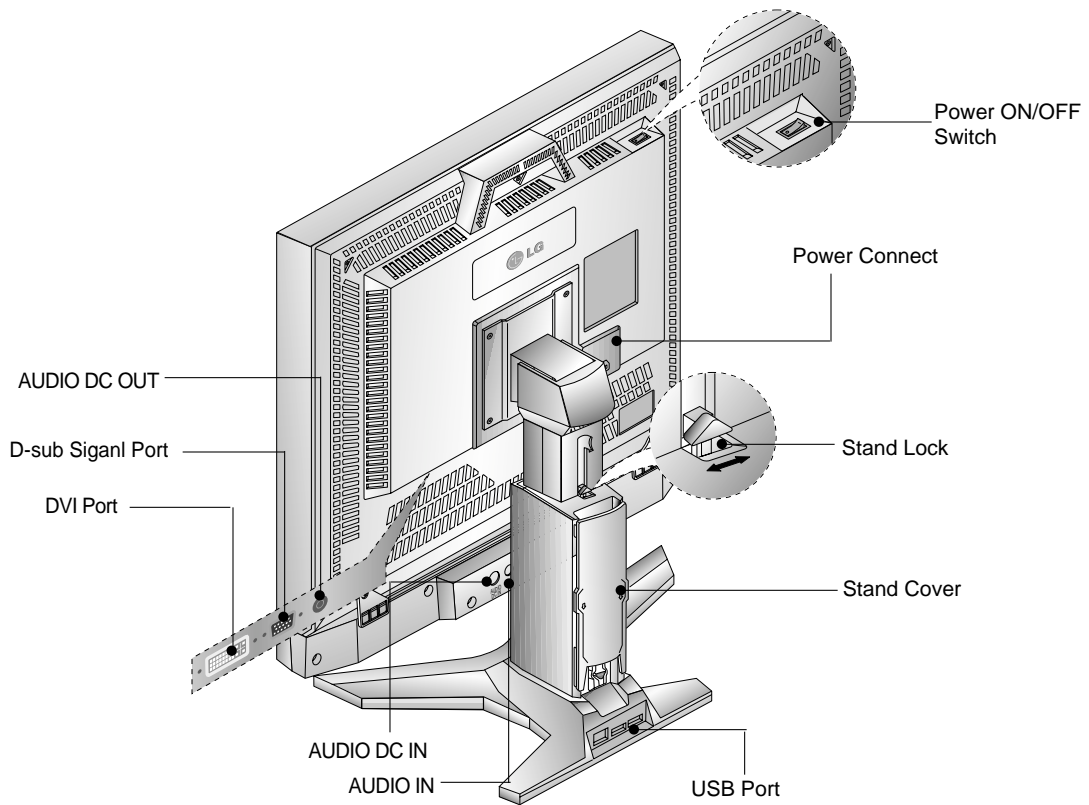
# OPERATING INSTRUCTIONS

## FRONT VIEW



Front Control Panel

## REAR VIEW



Power ON/OFF Switch

Power Connect

Stand Lock

Stand Cover

AUDIO DC OUT

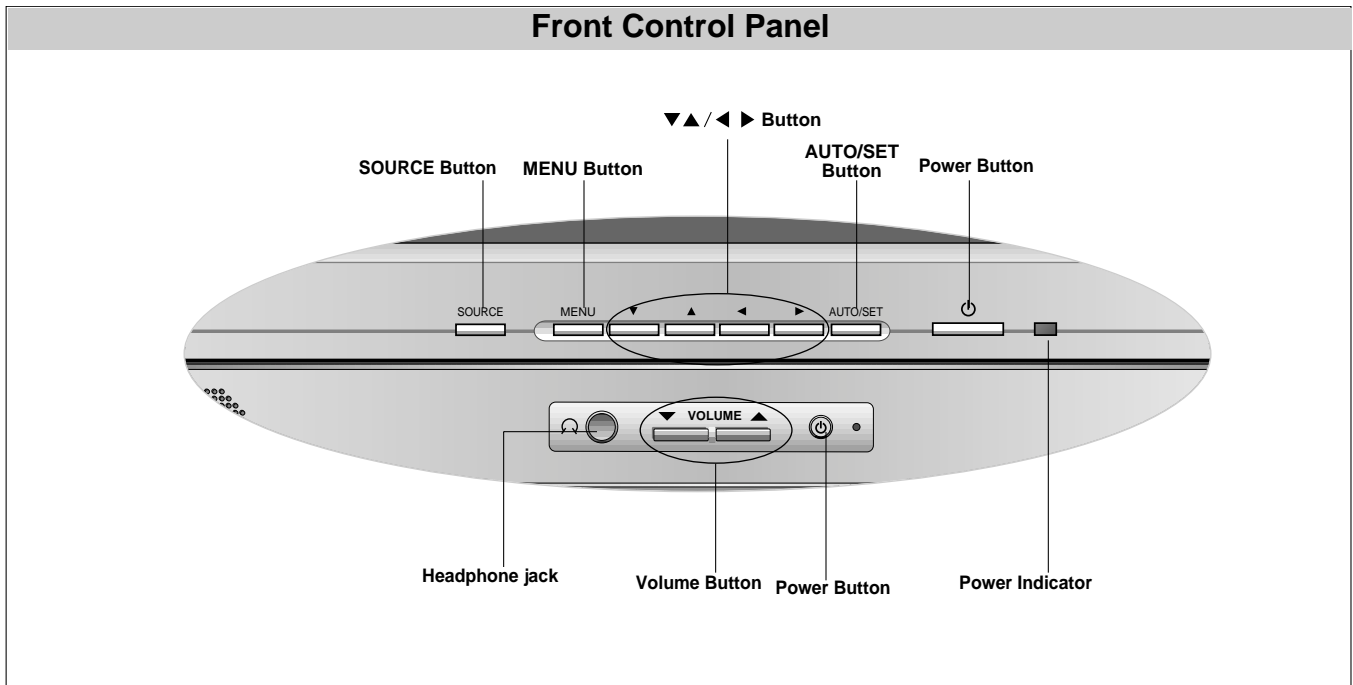
D-sub Signal Port



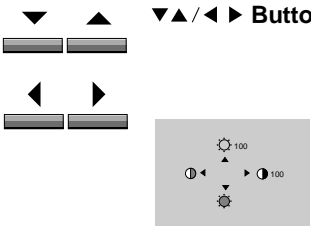




DVI Port

AUDIO DC IN

AUDIO IN

USB Port




| Control                                                                                                                                                                                               | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>SOURCE Button</b>                                                                                              | 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.                                                                                                                                                                                                                                                                                                    |
|  <b>MENU Button</b>                                                                                                | Use this button to enter or exit the on screen display.                                                                                                                                                                                                                                                                                                                                                                                                     |
|  <b>▼▲/◀▶ Button</b>                                                                                               | Use these buttons to choose or adjust items in the on screen display.<br><br><b>&lt;Shortcut Keys&gt;</b> <ul style="list-style-type: none"> <li>Brightness and Contrast can be adjusted directly without entering the On Screen Display (OSD) system. Touch the ▼▲/◀▶ buttons to adjust the settings and then the OSD button to save all changes. The Brightness and Contrast functions are also available in the On Screen Display (OSD) menu.</li> </ul> |
|  <b>AUTO/SET Button</b><br><br> | Use this button to enter a selection in the on screen display.<br><br><b>* AUTO adjustment function</b><br>TO the <b>AUTO/SET</b> button before using OSD menu.<br>This button is for the automatic adjustment of the screen position, clock and phase.<br><b>Note:</b> Some signal from some graphics boards may not function properly. <b>If the results are unsatisfactory</b> , adjust your monitor's Position, Clock and Phase manually.               |
|  <b>Power Button</b>                                                                                               | Use this button to turn the monitor on or off.                                                                                                                                                                                                                                                                                                                                                                                                              |
|  <b>Power Indicator</b>                                                                                            | This indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/ suspend/power off), this indicator color changes to amber.                                                                                                                                                                                                                                                                      |

## Control

## Function

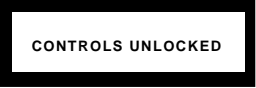


Press the hold the MENU button and ► button for 3 seconds: the message "CONTROLS LOCKED" appears.



CONTROLS LOCKED

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



CONTROLS UNLOCKED



Headphone jack that automatically mutes the speaker volume is attached.

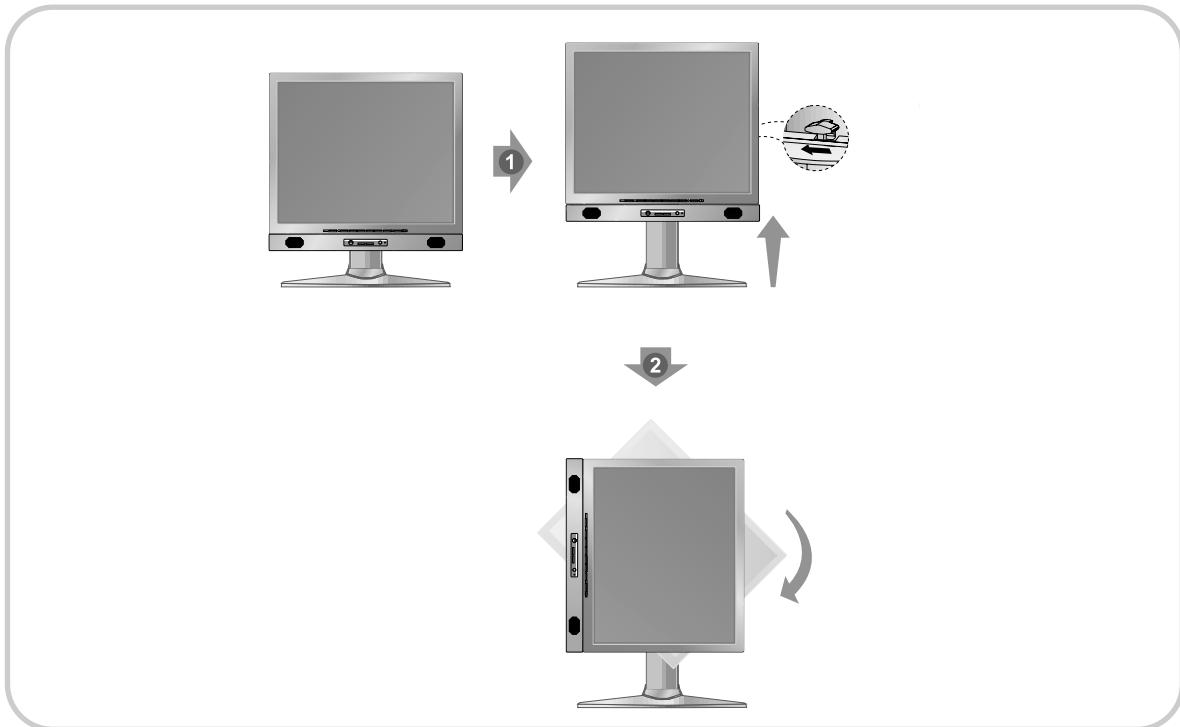


Used to adjust volume.



Use to turn ON/OFF audio.

## Pivot Function



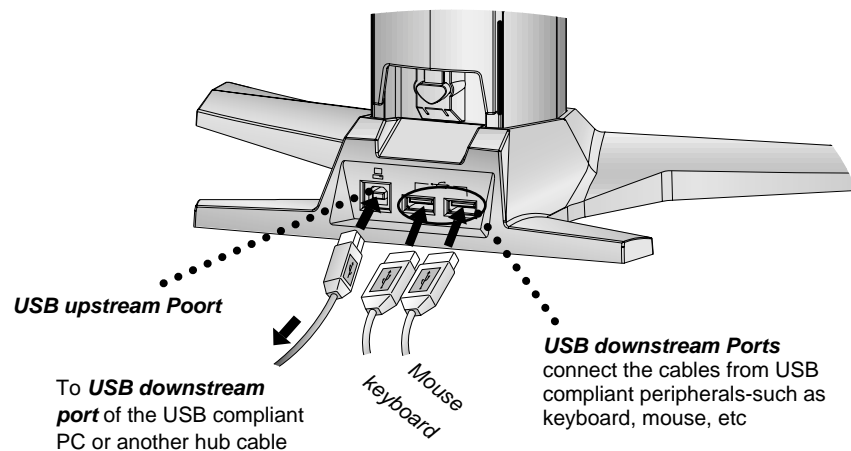
You can adjust the height of the screen and also rotate it 90° clockwise.

## 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 peripheral 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 monitor 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.



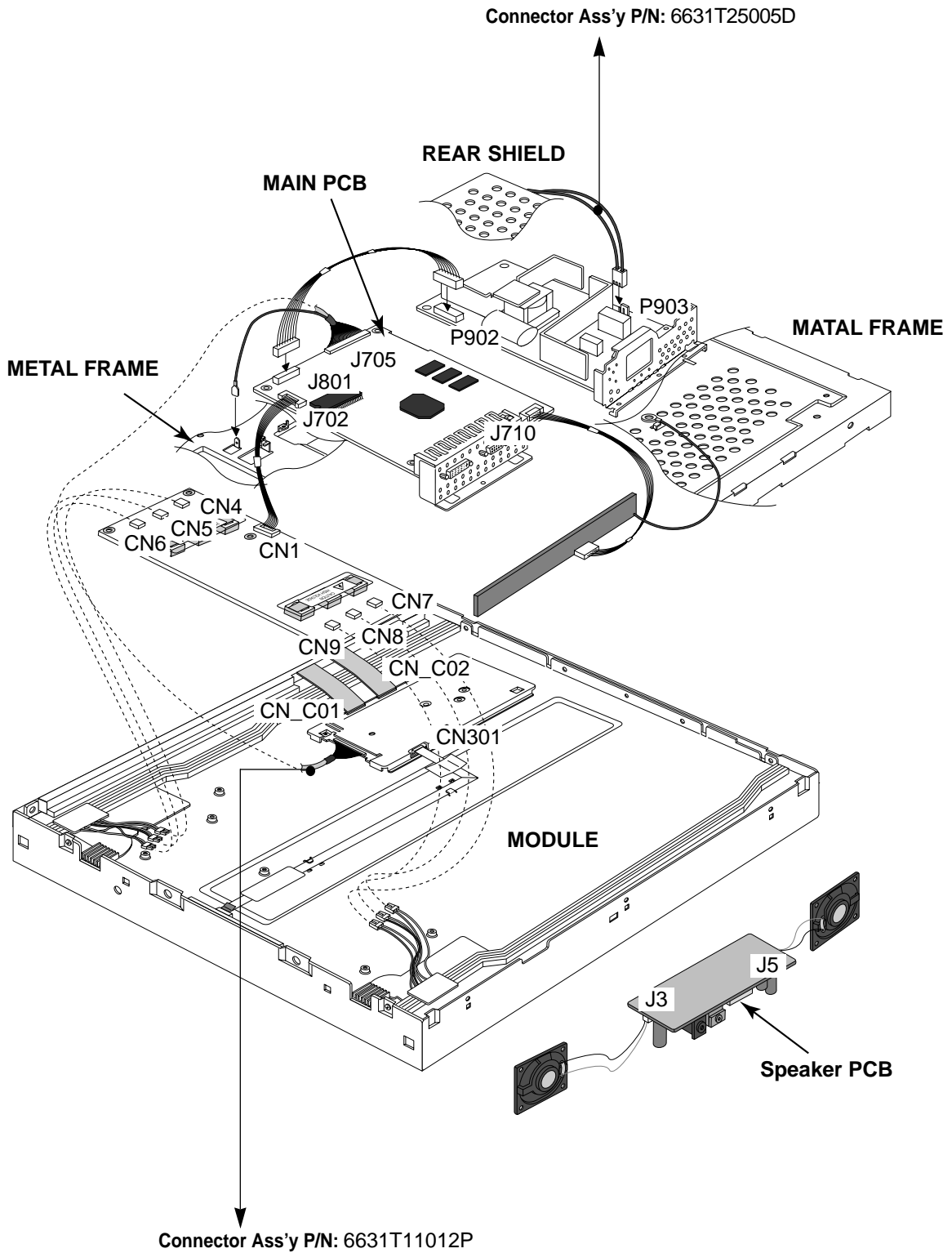
#### NOTE

- 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.

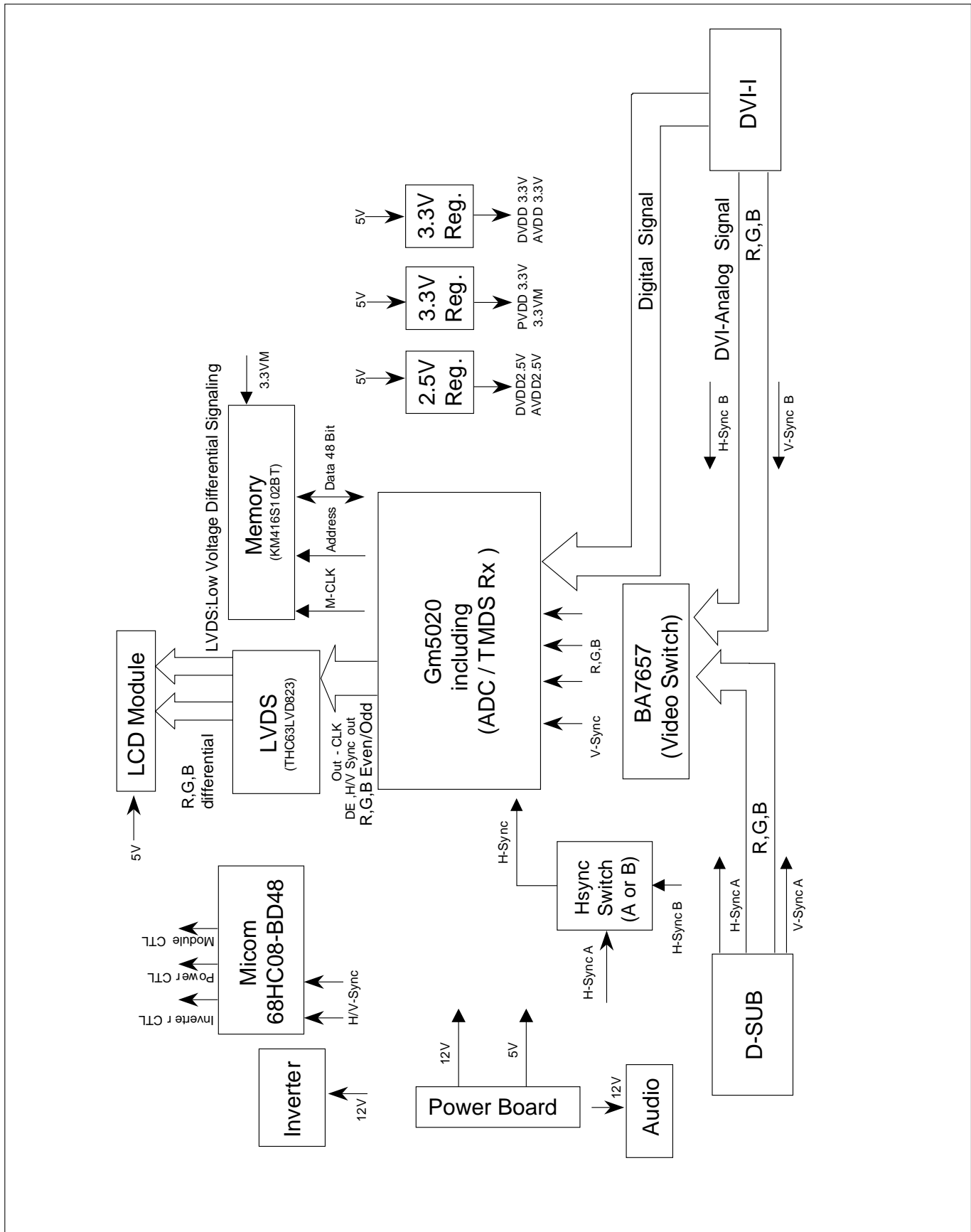
**IMPORTANT:** These USB connectors are not designed for use with high-power USB devices such as a video camera, scanner, etc. LGE recommends connecting high-power USB devices directly to the computer



# WIRING DIAGRAM



# BLOCK DIAGRAM



## DESCRIPTION OF BLOCK DIAGRAM

### 1. Input signal switching part(BA7657).

There are two analog inputs which are D-Sub analog and DVI-analog input. They come from each 15 pin D-Sub and 29 pin DVI-I connector.

### 2. Video Controller Part(GM5020).

This part amplifies the level of video signal for the analog to 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 and frame buffers which converts frame rate of input signal to 60Hz frame rate.

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.

Especially pre-amp / ADC / Video controller are merged to one chip 'Gm5020' by Genesis.

Also FRC is separate.

### 3. Display Data Transmitter Part(LVDS).

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 Power Board.

12V is provided for inverter, 5V is provided for Micom and LCD Panel.

Also, 5V is converted 3.3V and 2.5V by regulator. Converted power is provided for IC in the main board.

### 5. 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.

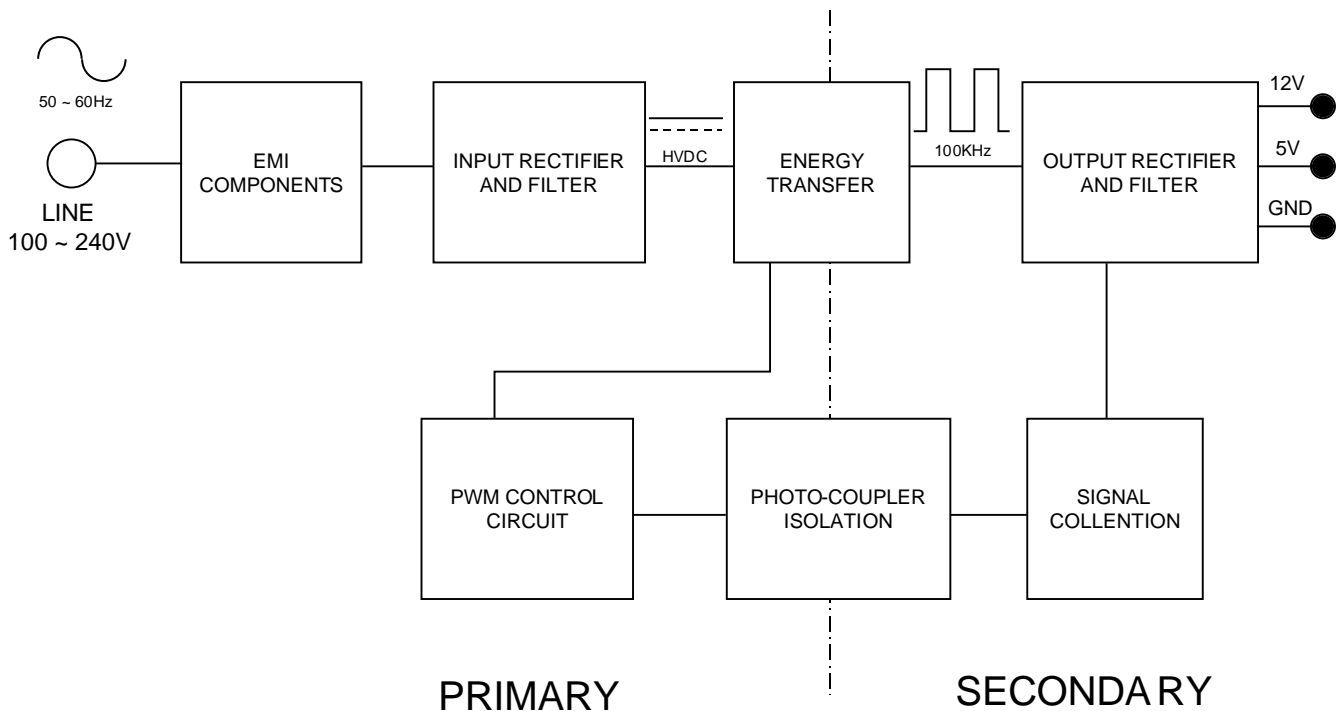
The controlled data of each modes is stored in EEPROM.

### 6. Inverter

The inverter converts from DC12V to AC 700Vrms and operate back-light lamp of module.

### 7. Audio Part

Input voltage is DC12V from Main board Audio Signal AC 700Vrms is amplified.



## 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 achive the dc output stablize, 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 achive the stablized 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 LB886F on the IBM compatible PC.
- 3) Select EEPROM → ALL INIT command and Enter
- 4) This will make all data to default state
- 5) Select COMMAND → 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) Set External Bright to MAX position and Contrast to MAX Position.
- 3) Select PRESET START → BIAS CAL command and Enter.
- 4) No attempt to manually adjust, BIAS data is automatically adjusted and saved to the EEPROM.
- 5) Display color 15,0 pattern at Mode 15.
- 6) Select DRIVE CAL command and Enter.
- 7) 5800K and 9300K are automatically adjusted and saved to the EEPROM.
- 8) Select PRESET EXIT 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 EEPROM → EDID Write 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.

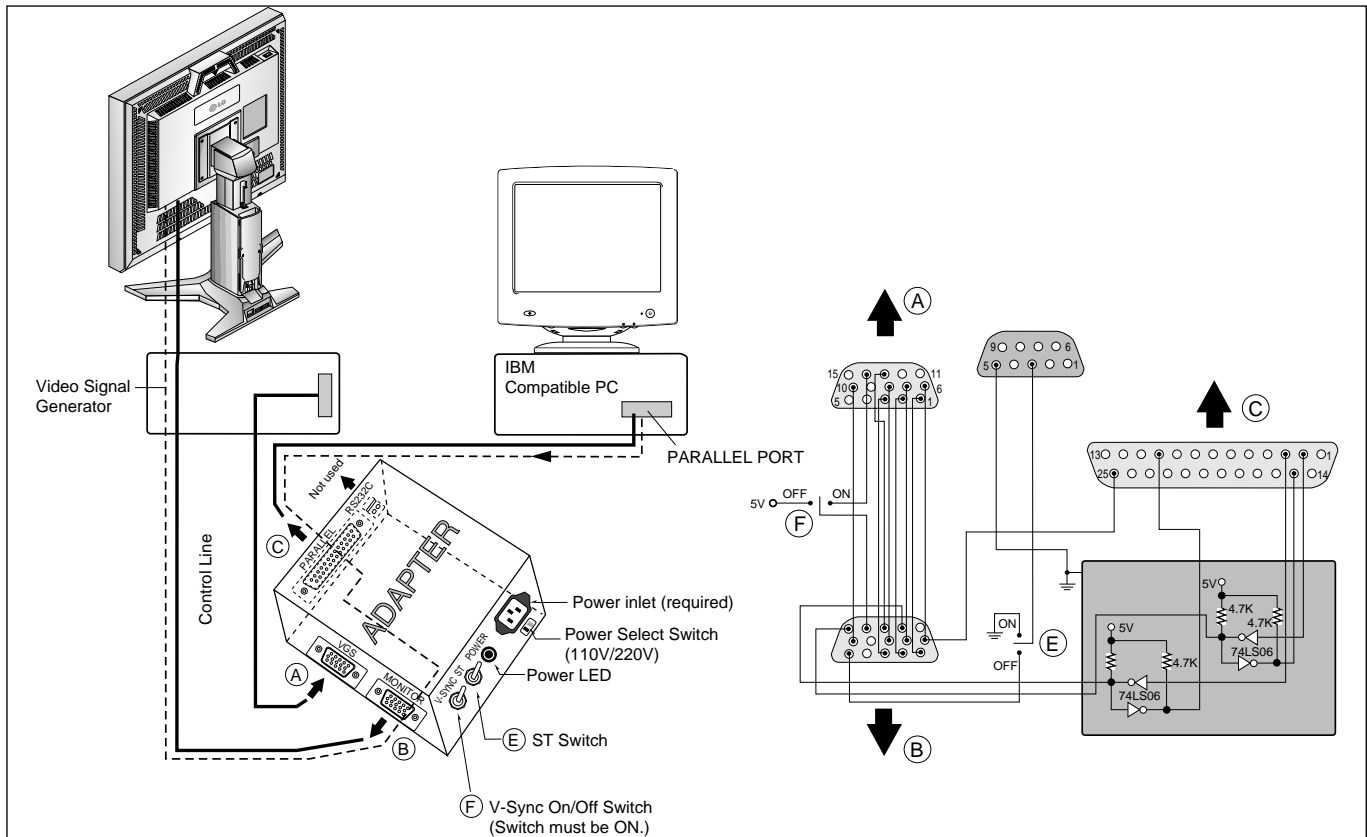
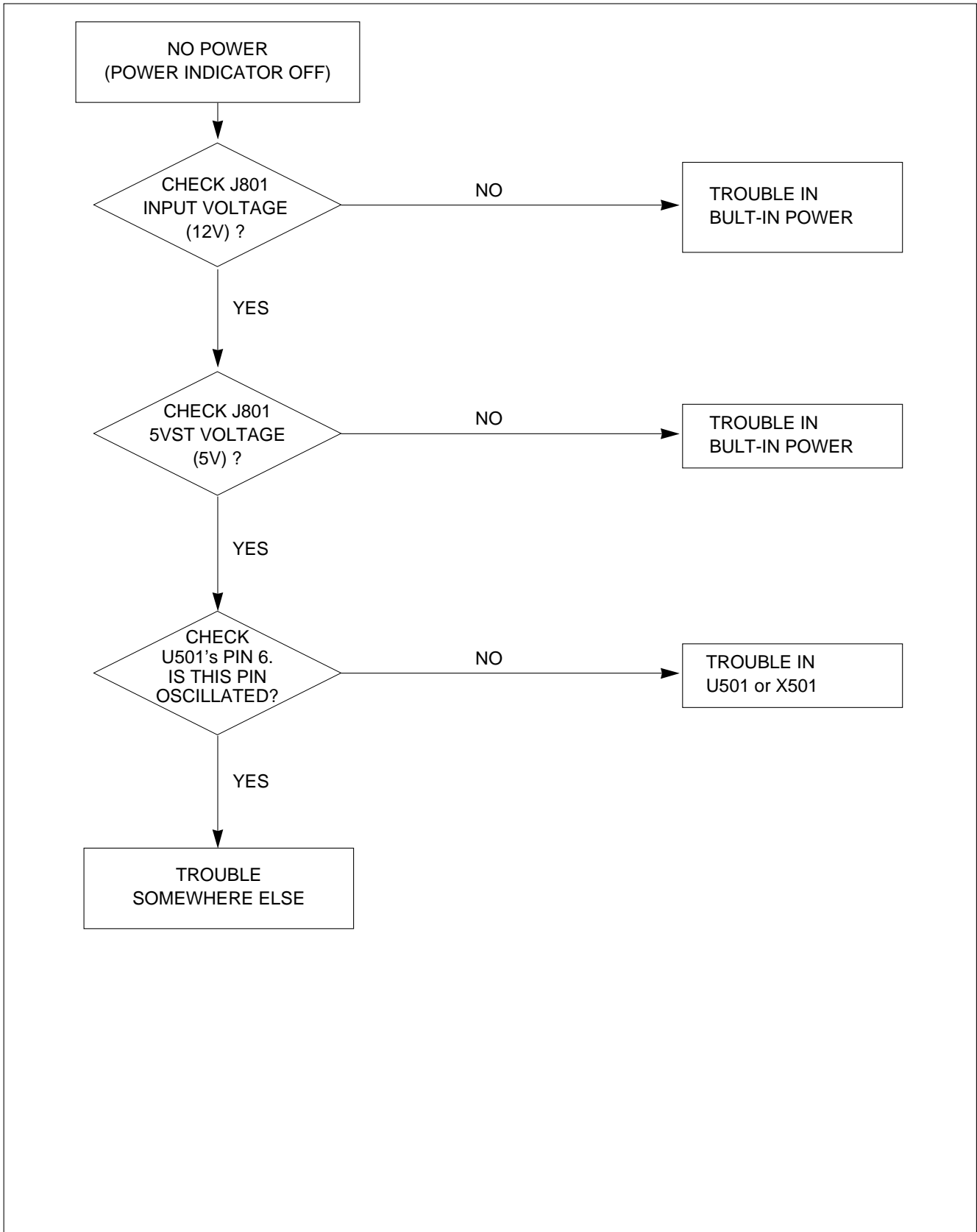


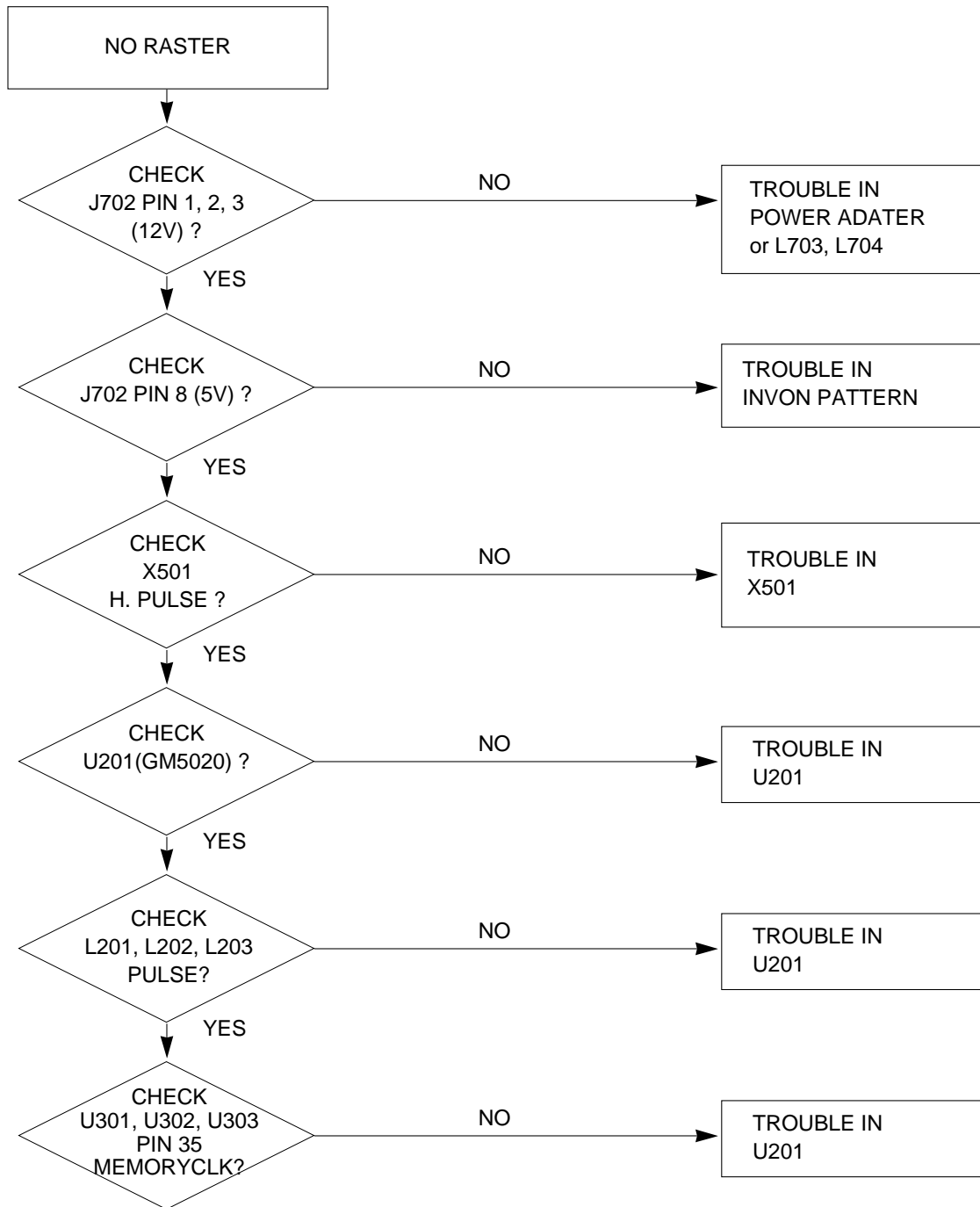
Figure 1. Cable Connection

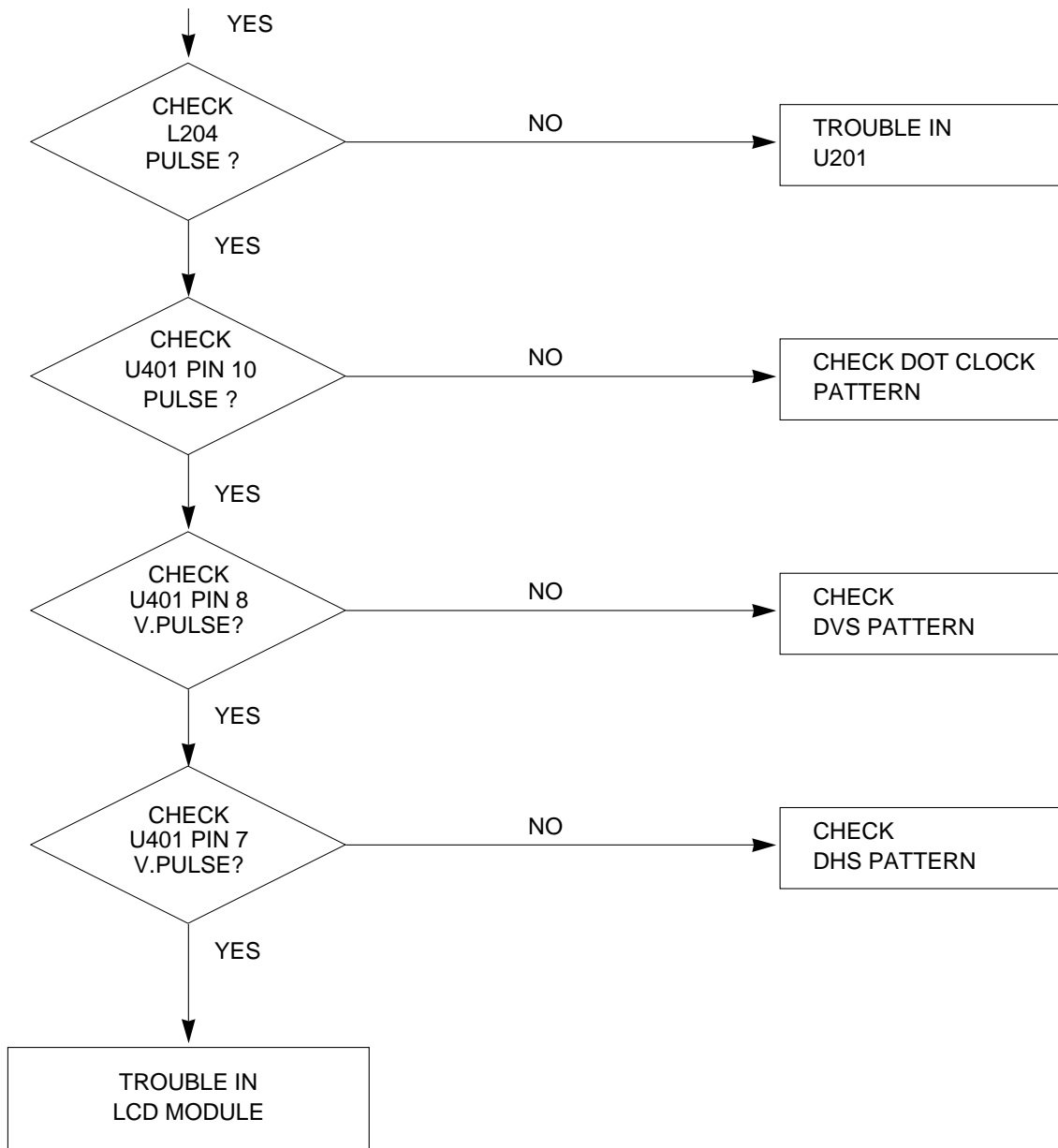
# TROUBLESHOOTING GUIDE

## 1. NO POWER



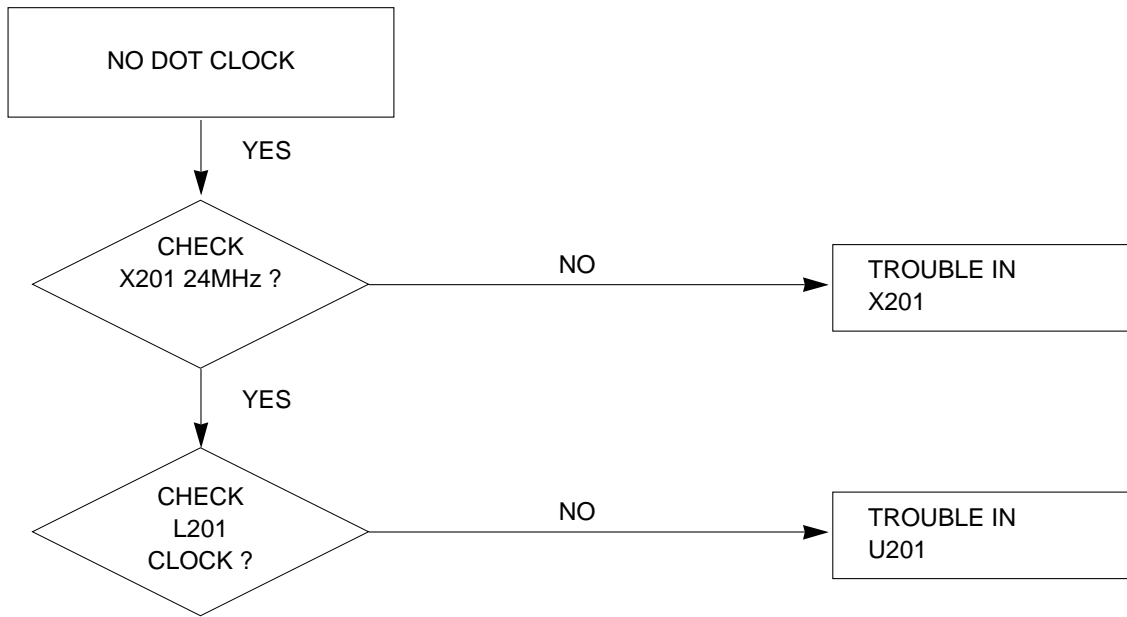
## 2. NO RASTER



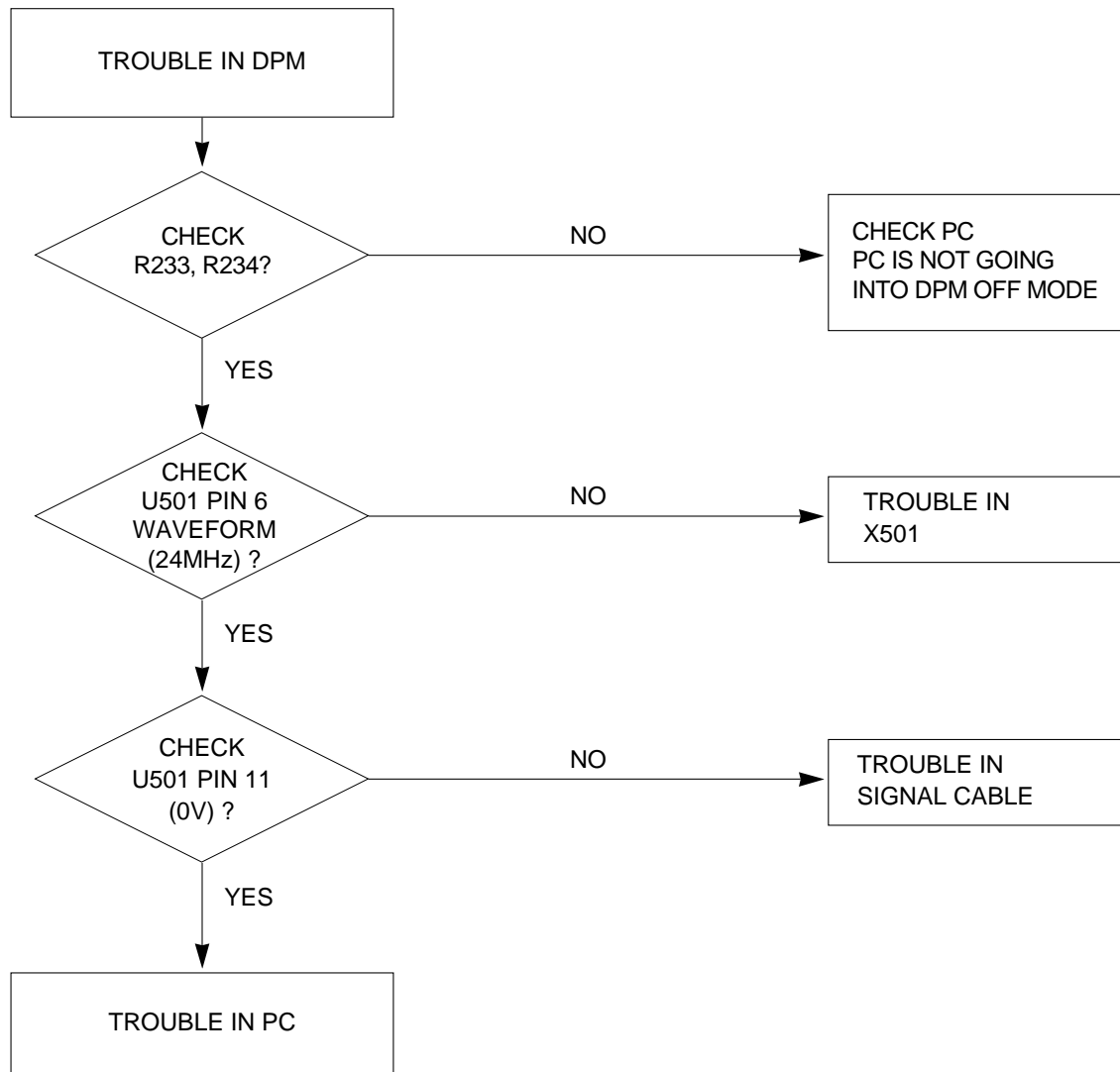




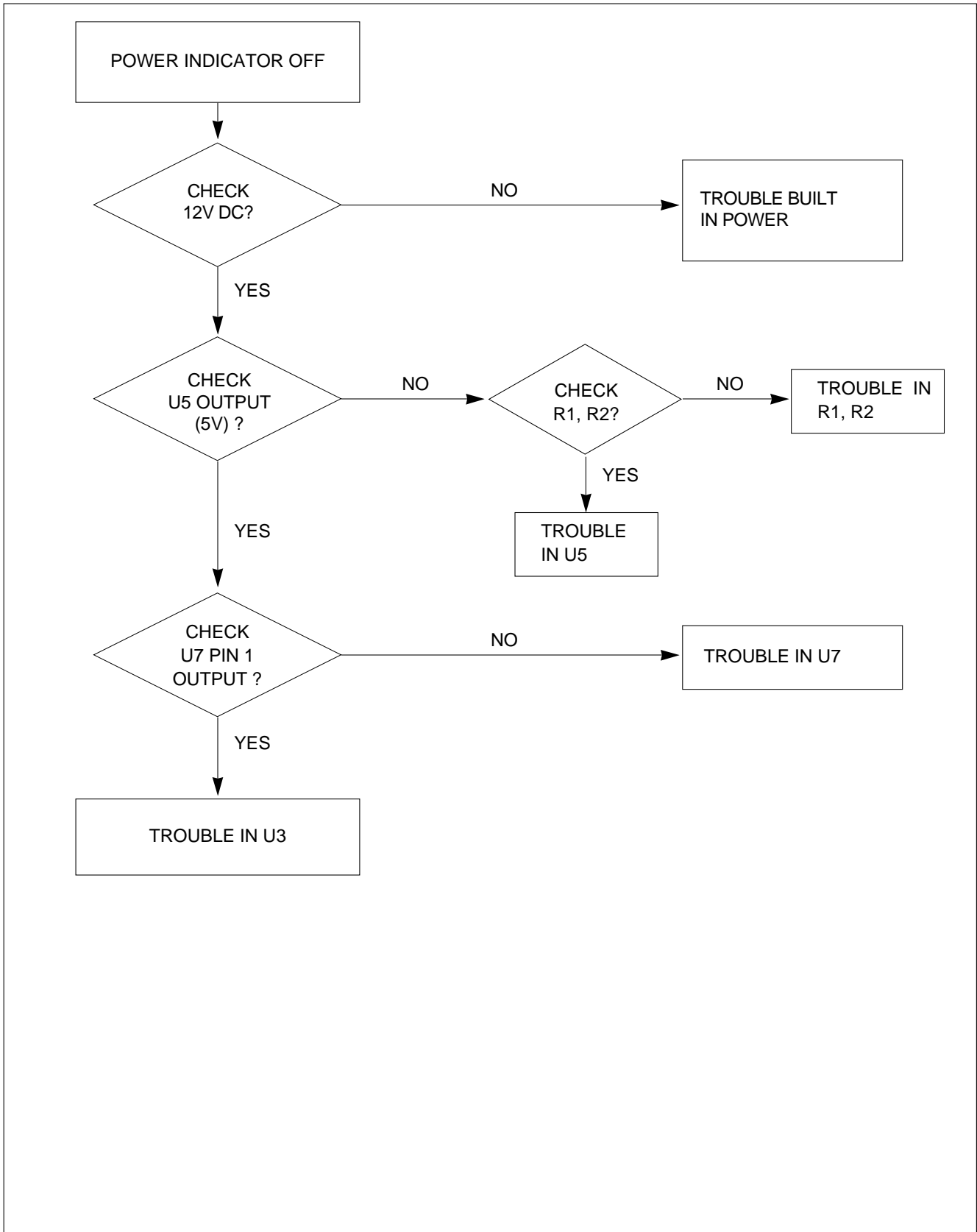
### 3. NO CLOCK (CLOCK GENERATOR)



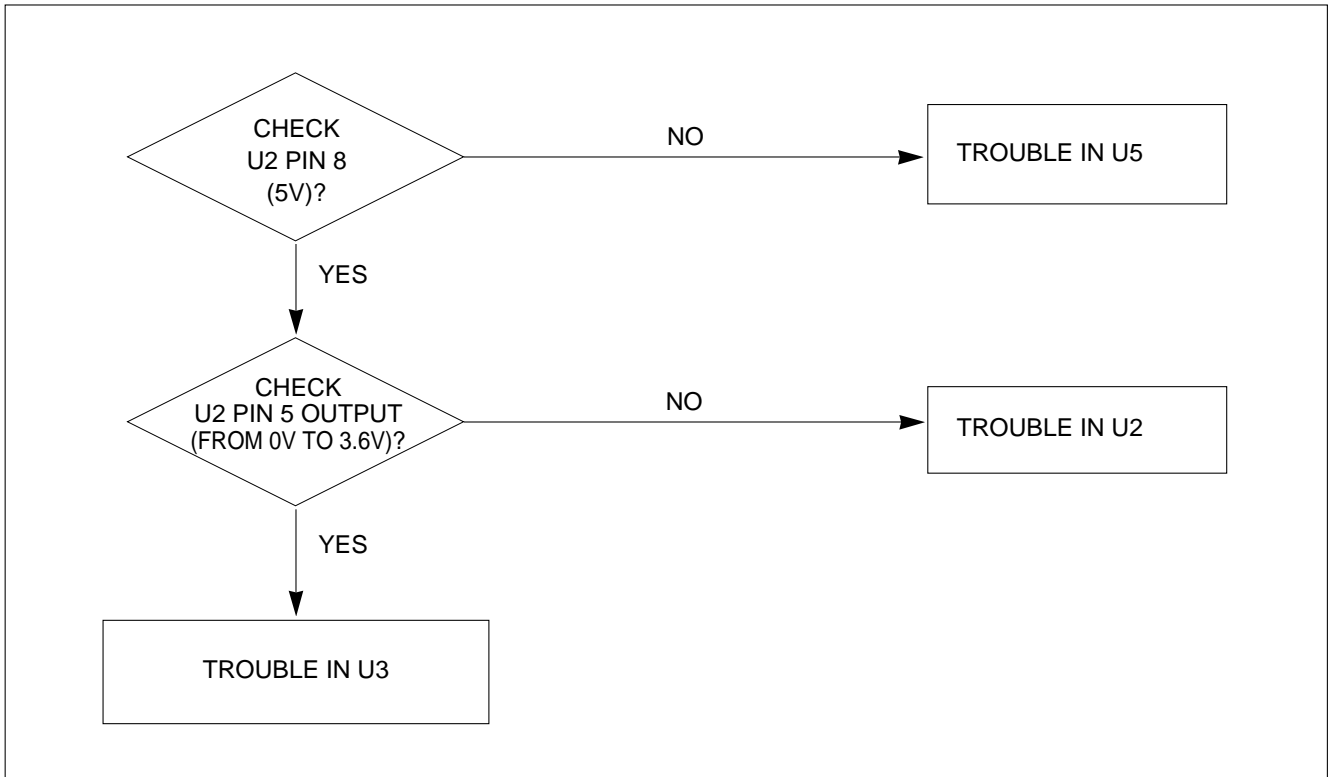
#### 4. TROUBLE IN DPM



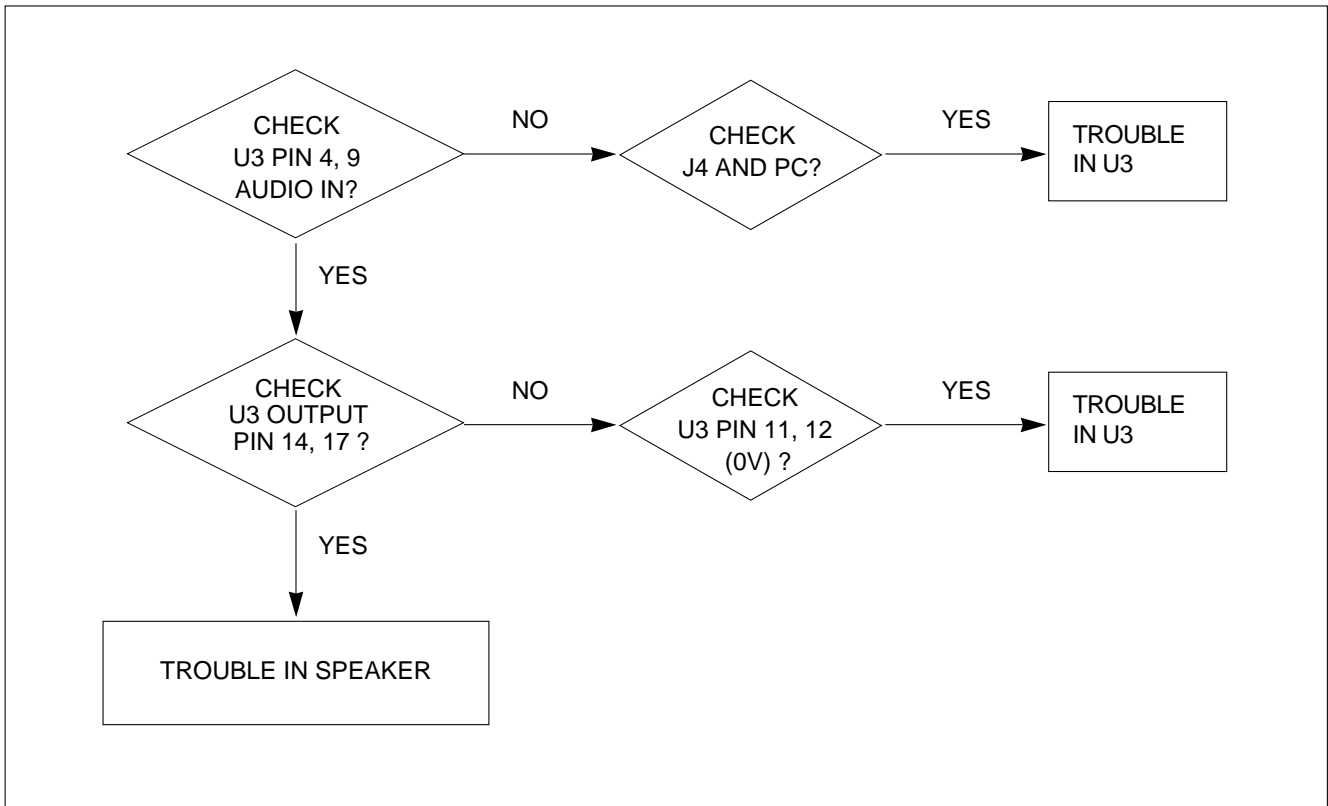
## 5. AUDIO NO POWER



## 6. NO VOLUME CONTROL

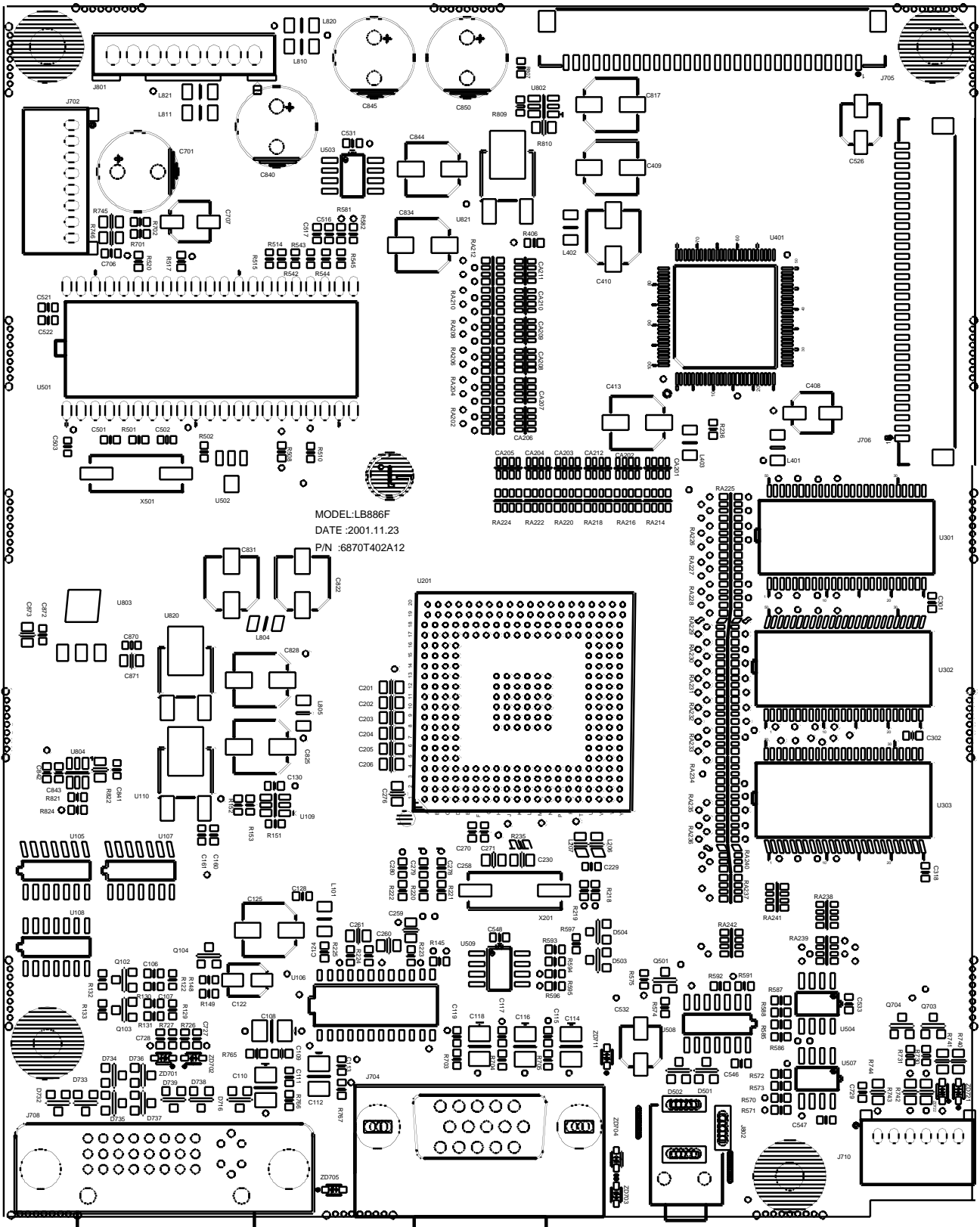


## 7. AUDIO NO OUTPUT



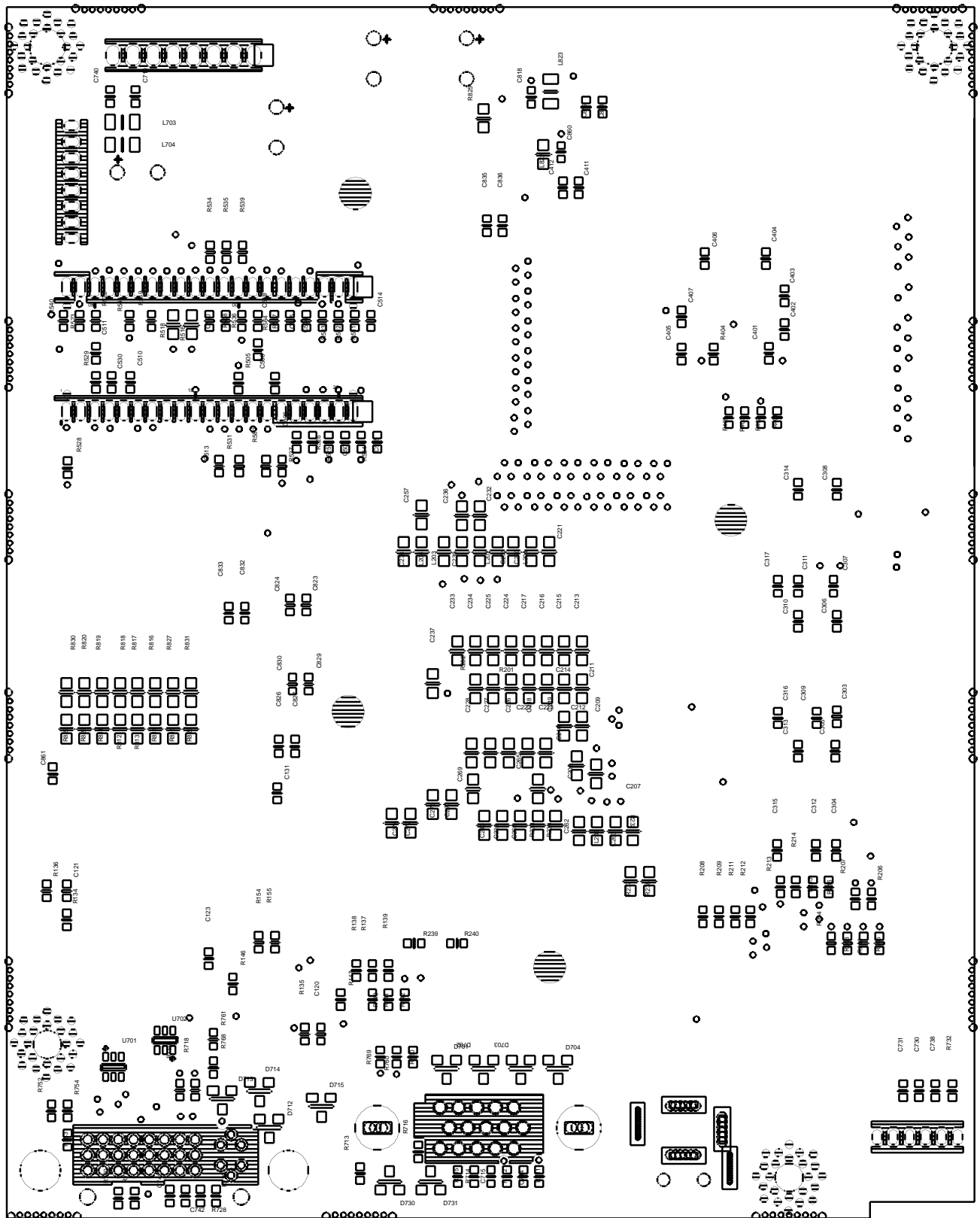
# PRINTED CIRCUIT BOARD

## 1. MAIN BOARD (Component Side)

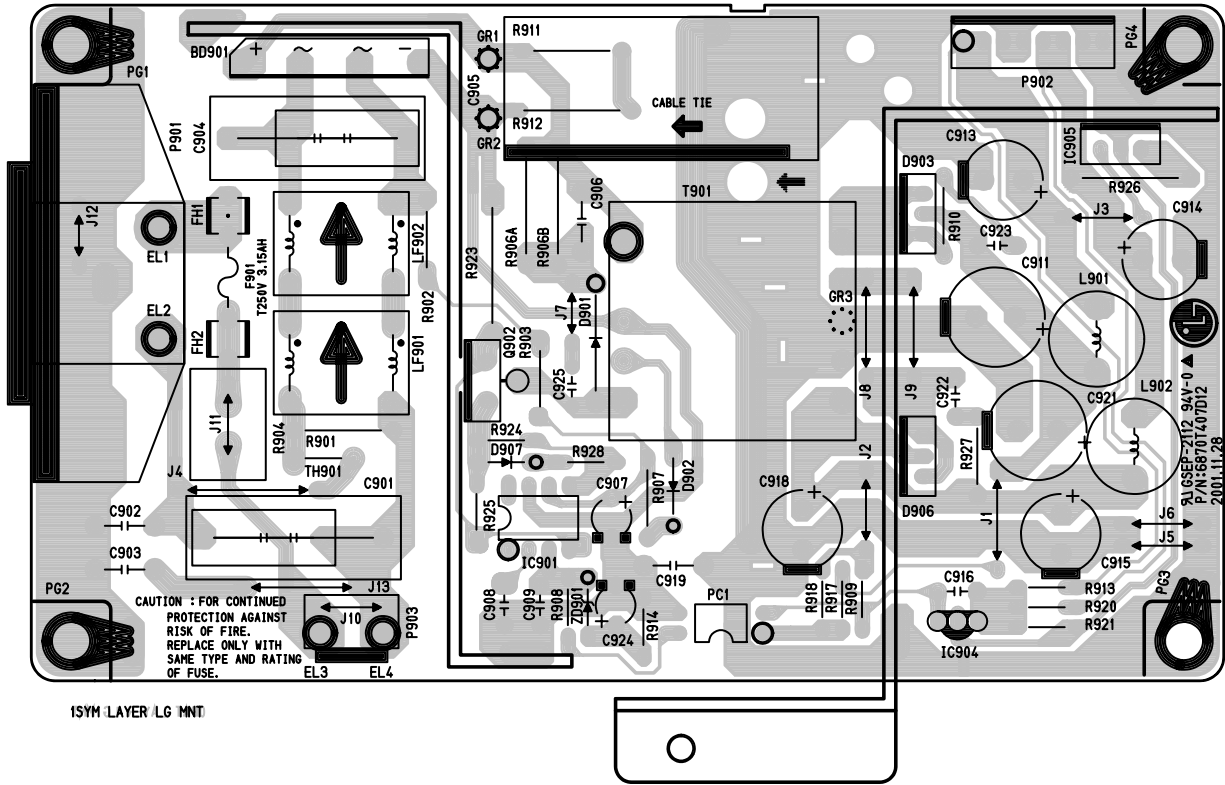


MODEL:LB886F  
DATE:2001.11.23  
P/N:6870T402A12

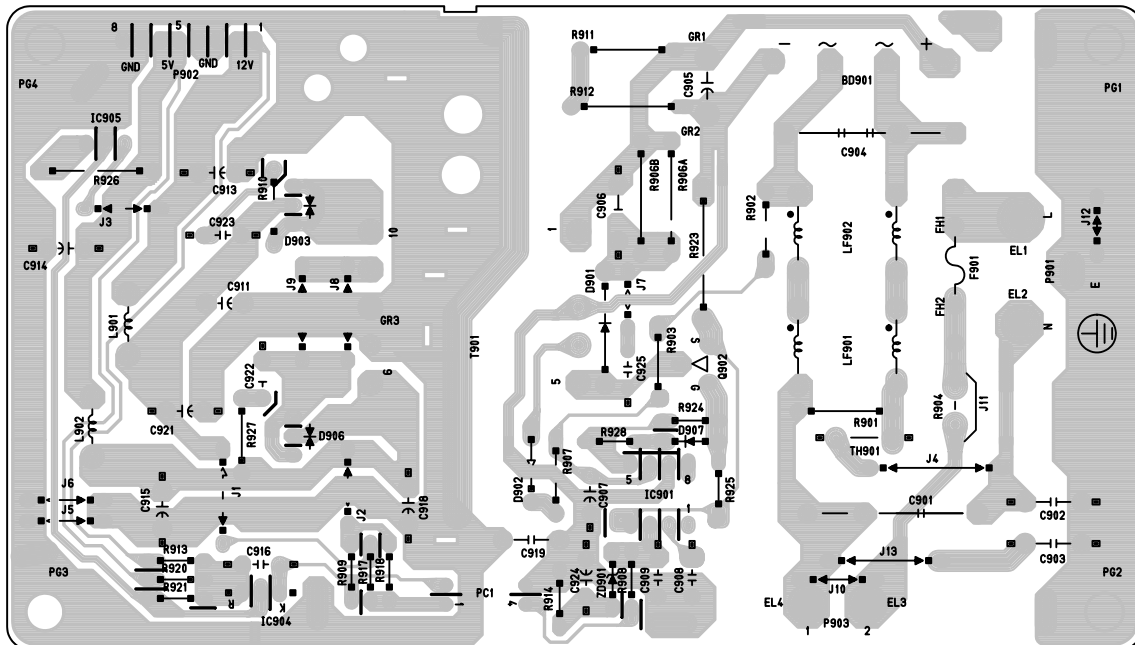
## 2. MAIN BOARD (Solder Side)



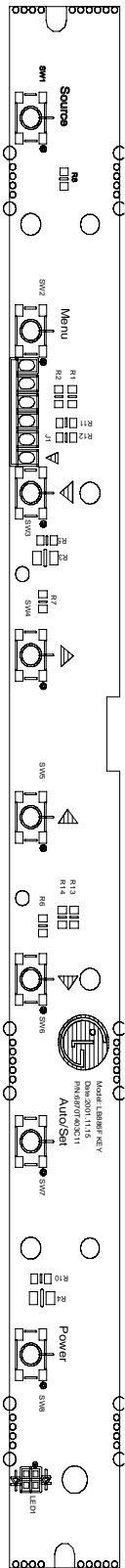
### 3. POWER BOARD (Component Side)



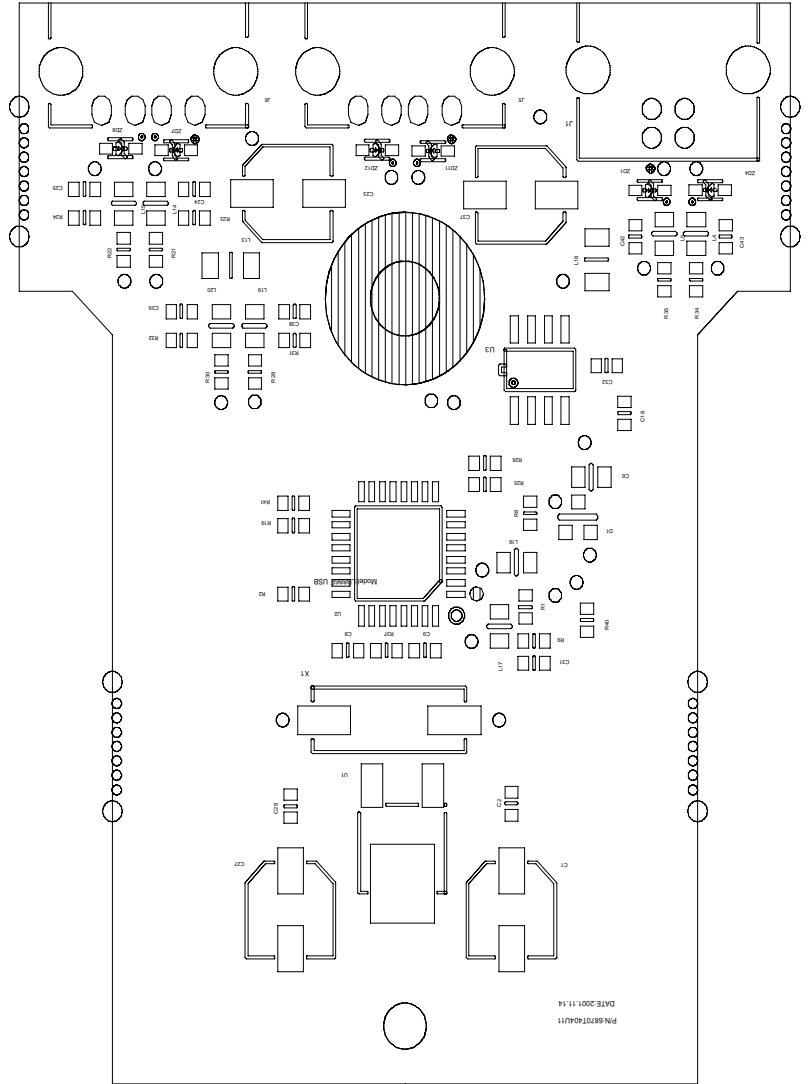
### 4. POWER BOARD (Solder Side)



## 5. CONTROL BOARD

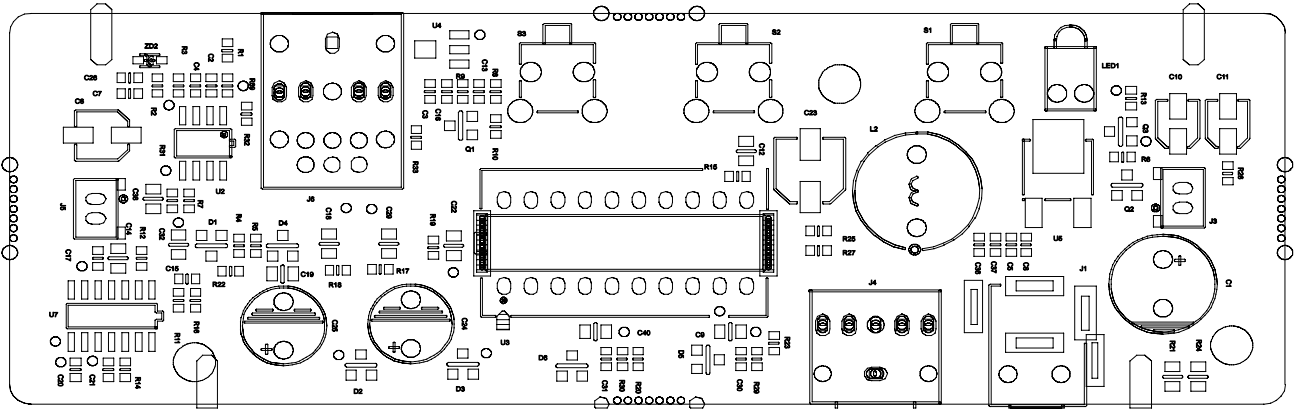


## 6.USB BOARD

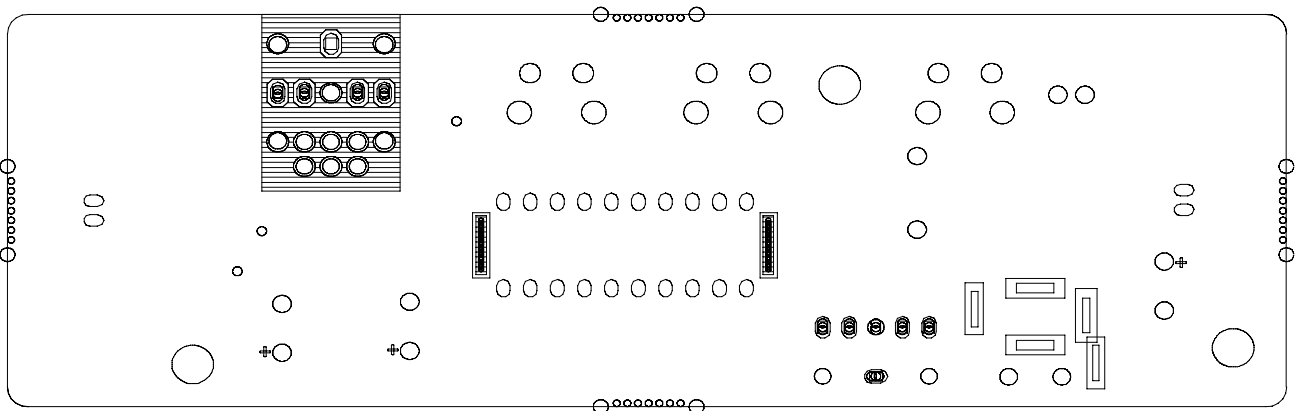




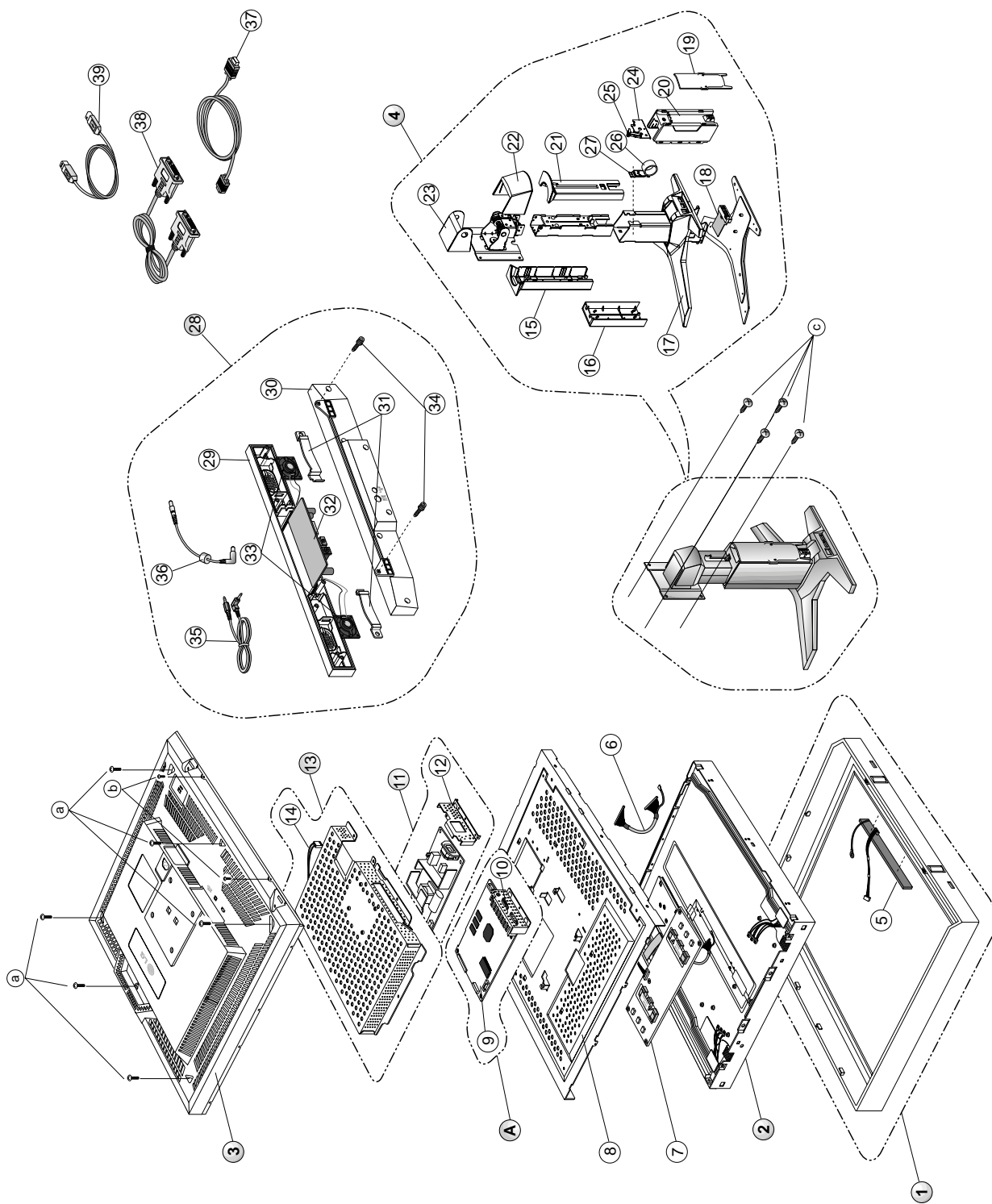
## 7. SPEAKER BOARD (Component Side)




## 8. SPEAKER BOARD (Solder Side)



# EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

\* Note: Safety mark 

| Ref. No. | Part No.    | Description                                                                                                                                          |
|----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | 3091TKL032C |  CABINET ASSEMBLY, LB886F BRAND - SPK                               |
| 2        | 6304FLP023A | LCD(LIQUID CRYSTAL DISPLAY), "LM181E05-C4M1 LG PHILIPS TFT COLOR 18.1" SXGA                                                                          |
| 3        | 3809TKL022D |  BACK COVER ASSEMBLY, LB886F . EQ22 COLOR                           |
| 4        | 3043TKK086B | TILT SWIVEL ASSEMBLY , LB886F, HIPS-60HR                                                                                                             |
| 5        | 6871TST273A | PWB(PCB) ASSEMBLY, SUB, LB886F CONTROL TOTAL BRAND CL-29                                                                                             |
| 6        | 6631T11012P | CONNECTOR ASSEMBLY, 30P H-H 100MM UL20276 PANEL LINK LB886F                                                                                          |
| 7        | 6633TZA008B |  INVERTER ASSEMBLY, ALPS KUBNKM030A 6-LAMP LB886F/LI884E            |
| 8        | 4951TKS078B | METAL ASSEMBLY, FRAME MAIN - LB886F                                                                                                                  |
| 9        | 6871TMT275B | PWB(PCB) ASSEMBLY,MAIN, LB886F ALLGS BRAND CL-29 TOTAL                                                                                               |
| 10       | 4814TKK188A | SHIELD, INTERFACE 18.1" NARROW                                                                                                                       |
| 11       | 6871TPT219B | PWB(PCB) ASSEMBLY, POWER, LB886F POWER TOTAL BRAND CL-29                                                                                             |
| 12       | 4814TKK187A | SHIELD, REAR LB886F                                                                                                                                  |
| 13       | 4951TKK071F | METAL ASSEMBLY, REAR LB782F                                                                                                                          |
| 14       | 6631T25005D |  CONNECTOR ASSEMBLY, SWITCH(GY)+CONN.ASSYP H-W 180MM UL 1617 AWG 22 |
| 15       | 3550TKK220A | COVER, LB886F STAND TOP FRONT                                                                                                                        |
| 16       | 3550TKK218B | COVER, LB886F STAND FRONT HIPS-60HR                                                                                                                  |
| 17       | 3550TKK222B | COVER, LB886F BASE TOP HIPS-60HR                                                                                                                     |
| 18       | 6871TUT015A | PWB(PCB) ASSEMBLY, USB, LB886F SUB TOTAL BRAND CL-29                                                                                                 |
| 19       | 3550TKK223B | COVER, LB886F PIECE CABLE, HIPS-60HR                                                                                                                 |
| 20       | 3550TKK219B | COVER, LB886F STAND REAR, HIPS-60HR                                                                                                                  |
| 21       | 3550TKK221A | COVER, LB886F STAND TOP REAR                                                                                                                         |
| 22       | 3550TKK217B | COVER, LB886F HINGE REAR, HIPS-60HR                                                                                                                  |
| 23       | 3550TKK216B | COVER, LB886F HINGE TOP, HIPS-60HR                                                                                                                   |
| 24       | 4950TKK346A | METAL, PLATE STOPPER, LB886F                                                                                                                         |
| 25       | 3550TKK224A | COVER, PIECE LOCK                                                                                                                                    |
| 26       | 4970TKK008A | SPRING, COIL, PLATE NO DIM, FOR STAND T=0.45 LB886F                                                                                                  |
| 27       | 4950TKK345A | METAL, FIX SPRING, LB886F                                                                                                                            |
| 28       | 3551TKS039A | COVER ASSEMBLY, LB886F SPEAKER - BRAND(ABS-EQ22)                                                                                                     |
| 29       | 3550TKS057B | COVER, LB886F SPEAKER -FRONT(ABS-EQ22)                                                                                                               |
| 30       | 3550TKS058B | COVER, LB886F SPEAKER -BACK(ABS-EQ22)                                                                                                                |
| 31       | 4950TKK337A | METAL, FIX SPEAKER (LM568E)                                                                                                                          |
| 32       | 6871TST288A | PWB(PCB) ASSEMBLY, SUB, LB886F SOUND TOTAL BRAND CL-29                                                                                               |
| 33       | 6401TZZ027A | SPEAKER ASSEMBLY, LB886F -18" LCD                                                                                                                    |
| 34       | 1SZZTMT002B | SCREW, DRAWING, D3.0 L13.0 SUS27/FN LB782F(BRAND)                                                                                                    |
| 35       | 6852TAZ006G | CORD, A/V, A/V KHC-LG-3-0008 UL 2851 #28 1560MM GRAY(85964) K                                                                                        |
| 36       | 6852TAZ004J | CORD, LINE, DC CABLE UNIXSTAR 160 GRAY LB886F,ANGLE TYPE                                                                                             |
| 37       | 6850TD9001B | CABLE, D-SUB, UL 2990-9C DT 1870MM GRAY(85964) LB886F WITH S/R                                                                                       |
| 38       | 6866TDV004H | CABLE, DVI, UL20276 DT 2000MM GRAY(85964) LB886F DM                                                                                                  |
| 39       | 6866TDU002D | SIGNAL CABLE, UL20276SB10P+2C AWG#30 DT 1870MM GRAY(85964) BRAND                                                                                     |
| A        | 3313TL8014B | MAIN TOTAL ASSEMBLY, LB886F BRAND CL-29                                                                                                              |
| a        | 1SZZTER001F | SCREW, DRAWING, D3.0 L10.0 (MSWR/FZMCW1)                                                                                                             |
| b        | 332-113N    | SCREW, PVP+3*12(MSWR/FZMW)                                                                                                                           |
| c        | 332-105F    | SCREW, PVS+4*10(MSWR/FZMW)                                                                                                                           |

# 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. 02. 18. |     |          |             |                               |
|---------------------|-----|----------|-------------|-------------------------------|
| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION   |
| <b>MAIN BOARD</b>   |     |          |             |                               |
| <b>CAPACITORS</b>   |     |          |             |                               |
|                     |     | C106     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0    |
|                     |     | C107     | OCC101CK41A | 100PF 1608 50V 5% R/TP NP0    |
|                     |     | C108     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C109     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C110     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C111     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C112     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C113     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C114     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C115     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C116     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C117     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C118     | DCH7476C621 | 47UF 6.3V M 3528 TP(-)        |
|                     |     | C119     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C120     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0   |
|                     |     | C122     | OCH8106F611 | 10UF 16V M 85STD(CYL) R/TP    |
|                     |     | C123     | OCC104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                     |     | C124     | OCC104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                     |     | C125     | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)   |
|                     |     | C128     | OCC104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                     |     | C130     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0   |
|                     |     | C131     | OCC102CK41A | 1000PF 1608 50V 5% R/TP NP0   |
|                     |     | C160     | OCC103CK51A | 0.01UF 1608 50V 10% R/TP B(Y) |
|                     |     | C161     | OCC104CK56A | 0.1UF 1608 50V 10% R/TP X7R   |
|                     |     | C201     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C202     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C203     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C204     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C205     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C206     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C207     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C208     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C209     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C210     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C211     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C212     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C213     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C214     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C215     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C216     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C217     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C218     | OCH3104K566 | 0.1UF 50V K X 2012 R/TP       |
|                     |     | C219     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C220     | OCH6330K416 | 33PF 50V J NP0 2012 R/TP      |
|                     |     | C221     | OCH6330K416 | 33PF 50V J NP0 2012 R/TP      |
|                     |     | C222     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C223     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C224     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C225     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C226     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |
|                     |     | C227     | OCH3104K566 | 0.1UF 50V K X 2012 R/TP       |
|                     |     | C228     | OCH3103K516 | 10000PF 50V K B 2012 R/TP     |

| DATE: 2002. 02. 18. |     |          |          |                             |
|---------------------|-----|----------|----------|-----------------------------|
| *S                  | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
|                     |     |          | C229     | OCC102CK41A                 |
|                     |     |          | C230     | OCH6150K416                 |
|                     |     |          | C231     | OCH6680K416                 |
|                     |     |          | C232     | OCH6680K416                 |
|                     |     |          | C233     | OCH3103K516                 |
|                     |     |          | C234     | OCH3103K516                 |
|                     |     |          | C235     | OCH6680K416                 |
|                     |     |          | C236     | OCH6680K416                 |
|                     |     |          | C237     | OCH3104K566                 |
|                     |     |          | C258     | OCH6150K416                 |
|                     |     |          | C259     | OCH3682K516                 |
|                     |     |          | C260     | OCH3682K516                 |
|                     |     |          | C261     | OCH3682K516                 |
|                     |     |          | C262     | OCH6330K416                 |
|                     |     |          | C264     | OCH6221K416                 |
|                     |     |          | C265     | OCH6470K416                 |
|                     |     |          | C269     | OCH3103K516                 |
|                     |     |          | C270     | OCC104CK56A                 |
|                     |     |          | C271     | OCC103CK51A                 |
|                     |     |          | C272     | OCH3104K566                 |
|                     |     |          | C273     | OCH3103K516                 |
|                     |     |          | C274     | OCH3103K516                 |
|                     |     |          | C275     | OCH3104K566                 |
|                     |     |          | C276     | OCH3103K516                 |
|                     |     |          | C278     | OCC104CK56A                 |
|                     |     |          | C279     | OCC104CK56A                 |
|                     |     |          | C280     | OCC104CK56A                 |
|                     |     |          | C301     | OCC103CK51A                 |
|                     |     |          | C302     | OCC103CK51A                 |
|                     |     |          | C303     | OCC103CK51A                 |
|                     |     |          | C304     | OCC103CK51A                 |
|                     |     |          | C305     | OCC103CK51A                 |
|                     |     |          | C306     | OCC103CK51A                 |
|                     |     |          | C307     | OCC103CK51A                 |
|                     |     |          | C308     | OCC103CK51A                 |
|                     |     |          | C309     | OCC103CK51A                 |
|                     |     |          | C310     | OCC103CK51A                 |
|                     |     |          | C311     | OCC103CK51A                 |
|                     |     |          | C312     | OCC103CK51A                 |
|                     |     |          | C313     | OCC103CK51A                 |
|                     |     |          | C314     | OCC103CK51A                 |
|                     |     |          | C315     | OCC103CK51A                 |
|                     |     |          | C316     | OCC103CK51A                 |
|                     |     |          | C317     | OCC103CK51A                 |
|                     |     |          | C318     | OCC103CK51A                 |
|                     |     |          | C401     | OCC103CK51A                 |
|                     |     |          | C402     | OCC103CK51A                 |
|                     |     |          | C403     | OCC103CK51A                 |
|                     |     |          | C404     | OCC103CK51A                 |
|                     |     |          | C405     | OCC103CK51A                 |
|                     |     |          | C406     | OCC103CK51A                 |
|                     |     |          | C407     | OCC103CK51A                 |
|                     |     |          | C408     | OCH8226F691                 |
|                     |     |          | C409     | OCE107WF6DC                 |

| DATE: 2002. 02. 18. |     |          |             |                              |
|---------------------|-----|----------|-------------|------------------------------|
| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
|                     |     | C410     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C411     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C412     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C413     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C501     | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0    |
|                     |     | C502     | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0    |
|                     |     | C503     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C504     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C505     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C506     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C507     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C508     | 0CK222CK51A | 2200PF 1608 50V 10% R/TP B(Y |
|                     |     | C510     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C511     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C513     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C514     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C515     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0    |
|                     |     | C516     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0   |
|                     |     | C517     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0   |
|                     |     | C519     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0   |
|                     |     | C520     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0   |
|                     |     | C521     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C522     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C526     | 0CH8106J691 | 10UF 35V M 105STD (CYL) R/TP |
|                     |     | C531     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C532     | 0CH8106J691 | 10UF 35V M 105STD (CYL) R/TP |
|                     |     | C533     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C548     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C701     | 0CE477EH618 | 470UF KMG 25V M FL TP 5      |
|                     |     | C706     | 0CC221CK41A | 220PF 1608 50V 5% R/TP NP0   |
|                     |     | C707     | 0CH8106J691 | 10UF 35V M 105STD (CYL) R/TP |
|                     |     | C710     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | 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     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C730     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C731     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C738     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C740     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | 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(Y |
|                     |     | C820     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C822     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C823     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C824     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C825     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C826     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C827     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C828     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C829     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C830     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C831     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C832     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C833     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C834     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C835     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C836     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C840     | 0CE477EH618 | 470UF KMG 25V M FL TP 5      |
|                     |     | C841     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |

| DATE: 2002. 02. 18. |     |          |             |                              |
|---------------------|-----|----------|-------------|------------------------------|
| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
|                     |     | C842     | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C843     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C844     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C845     | 0CE477EH618 | 470UF KMG 25V M FL TP 5      |
|                     |     | C850     | 0CE477EH618 | 470UF KMG 25V M FL TP 5      |
|                     |     | C860     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C861     | 0CK105CD56A | 1UF 1608 10V 10% R/TP X7R    |
|                     |     | C870     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C871     | 0CH6101K416 | 100PF 50V J NP0 2012 R/TP    |
|                     |     | C872     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C873     | 0CH6101K416 | 100PF 50V J NP0 2012 R/TP    |
| <b>DIODES</b>       |     |          |             |                              |
|                     |     | D501     | 0DS301109AA | MMBD301LT1 TP MOTOROLA SOT23 |
|                     |     | D502     | 0DS301109AA | MMBD301LT1 TP MOTOROLA SOT23 |
|                     |     | D503     | 0DS301109AA | MMBD301LT1 TP MOTOROLA SOT23 |
|                     |     | D504     | 0DS301109AA | MMBD301LT1 TP MOTOROLA SOT23 |
|                     |     | D701     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D702     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D703     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D704     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D712     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D713     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D714     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D715     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D716     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D730     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D731     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D732     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D733     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D734     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D735     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D736     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D737     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D738     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D739     | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D903     | 0DRIR00011B | 16CTQ100 I.R ST TO220 100V 1 |
|                     |     | D906     | 0DRIR00021A | 30CTQ060 I.R ST TO220 60V 30 |
|                     |     | ZD701    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD702    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD703    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD704    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD705    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD711    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD721    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD722    | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
| <b>ICs</b>          |     |          |             |                              |
|                     |     | U105     | 0IMO741420B | MC74HCT14ADR2 14P,SOIC TP LE |
|                     |     | U106     | 0IRH765700B | BA7657F 24P,SOP TP INPUT SIG |
|                     |     | U107     | 0ITI748600N | SN74F86DR 14SOIC TP 2-INPUT  |
|                     |     | U108     | 0IPH740800H | 74F08D 14P,SOIC TP QUAD 2-IN |
|                     |     | U109     | 0TFFC80009A | FAIRCHILD FDC6326L R/TP SOT- |
|                     |     | U110     | 0ISS780500H | KA78M05-R 3P,D-PAK TP 5V 0.5 |
|                     |     | U201     | 0IPRPN0001A | GM5020 GENESIS 292P,PBGA TRA |
|                     |     | U301     | 0IEB121616A | M12L16161A-7T 50P TSOP ST 16 |
|                     |     | U302     | 0IEB121616A | M12L16161A-7T 50P TSOP ST 16 |
|                     |     | U303     | 0IEB121616A | M12L16161A-7T 50P TSOP ST 16 |
|                     |     | U401     | 0ILNRTH001A | THC63LVD823 THINE MICROSYSTE |
|                     |     | U501     | 0IZZTSZ160A | 42P BK                       |

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| *S                       | *AL | LOC. NO. | PART NO.     | DESCRIPTION / SPECIFICATION  |
|                          |     | U502     | 0IKE704200J  | KIA7042AF SOT-89 TP 4.2V VOL |
|                          |     | U503     | 0ICS240813B  | CAT24WC08J-TE13 8P,SOIC R/TP |
|                          |     | U504     | 0ISS524202A  | S524C20D21-SCT0 8SOP-225 R/T |
|                          |     | U509     | 0ISS524202A  | S524C20D21-SCT0 8SOP-225 R/T |
|                          |     | U701     | 0DZ560009DA  | UDZ S 5.6B TP ROHM-K SOD323  |
|                          |     | U802     | 0TFFFC80009A | FAIRCHILD FDC6326L R/TP SOT- |
|                          |     | U803     | 0IPMGFA003B  | RC1117S-2.5 FAIRCHILD SOT-22 |
|                          |     | U804     | 0TFFFC80009A | FAIRCHILD FDC6326L R/TP SOT- |
|                          |     | U820     | 0IRH033200A  | BA033FP-E2 MOLD-3 TP REGULAT |
|                          |     | U821     | 0IRH033200A  | BA033FP-E2 MOLD-3 TP REGULAT |
| <b>COILS &amp; COREs</b> |     |          |              |                              |
|                          |     | L101     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L201     | 0RH0562D622  | 56 1/10W 5 D.R/TP            |
|                          |     | L202     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L203     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L204     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L205     | 6210TCE001R  | HB-1S2012-400JT CERATECH 201 |
|                          |     | L206     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L207     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L401     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L402     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L403     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L703     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L704     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L804     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L805     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L810     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L811     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L820     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L821     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
|                          |     | L822     | 6210TCE001P  | HB-1S2012-121JT CERATECH 201 |
|                          |     | L823     | 6210TCE001G  | HH-1M3216-501 CERATEC 3216MM |
| <b>TRANSISTOR</b>        |     |          |              |                              |
|                          |     | Q102     | 0TR390409AE  | FAIRCHILD KST3904(LGEMTF) TP |
|                          |     | Q103     | 0TR390409AE  | FAIRCHILD KST3904(LGEMTF) TP |
|                          |     | Q104     | 0TR162309CA  | KSC1623 TP SAMSUNG SOT23 NP  |
|                          |     | Q703     | 0TR162309CA  | KSC1623 TP SAMSUNG SOT23 NP  |
|                          |     | Q704     | 0TR162309CA  | KSC1623 TP SAMSUNG SOT23 NP  |
|                          |     | Q902     | 0TFFN10004A  | INFINEON SPP11N60C2 ST TO220 |
| <b>RESISTORS</b>         |     |          |              |                              |
|                          |     | R122     | 0RJ1002D677  | 10K OHM 1/10 W 5% 1608 R/TP  |
|                          |     | R129     | 0RJ1002D677  | 10K OHM 1/10 W 5% 1608 R/TP  |
|                          |     | R130     | 0RJ4701D677  | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                          |     | R131     | 0RJ4701D677  | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                          |     | R132     | 0RJ1001D677  | 1K OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R133     | 0RJ1001D677  | 1K OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R134     | 0RJ1001D677  | 1K OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R135     | 0RJ4703D677  | 470K OHM 1/10 W 5% 1608 R/TP |
|                          |     | R139     | 0RJ1001D677  | 1K OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R140     | 0RJ1003D677  | 100K OHM 1/10 W 5% 1608 R/TP |
|                          |     | R141     | 0RJ1000D677  | 100 OHM 1/10 W 5% 1608 R/TP  |
|                          |     | R142     | 0RJ1000D677  | 100 OHM 1/10 W 5% 1608 R/TP  |
|                          |     | R145     | 0RJ0222D677  | 22 OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R146     | 0RJ1001D677  | 1K OHM 1/10 W 5% 1608 R/TP   |
|                          |     | R147     | 0RJ4701D677  | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                          |     | R149     | 0RJ2000D677  | 200 OHM 1/10 W 5% 1608 R/TP  |

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|                     |     | R150     | 0RJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R151     | 0RJ1500D677 | 150 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R153     | 0RJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R154     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R155     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R201     | 0RH2001D622 | 2.0K 1/10W 5 D.R/TP          |
|                     |     | R202     | 0RH2001D622 | 2.0K 1/10W 5 D.R/TP          |
|                     |     | R203     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R204     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R205     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R206     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R207     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R208     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R209     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R210     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R211     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R212     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R213     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R214     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R215     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R216     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R218     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R219     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R220     | 0RJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R221     | 0RJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R222     | 0RJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R223     | 0RJ1500D677 | 150 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  |
|                     |     | R233     | 0RH0222D622 | 22 1/10W 5 D.R/TP            |
|                     |     | R234     | 0RH0222D622 | 22 1/10W 5 D.R/TP            |
|                     |     | R235     | 0RJ2201D677 | 2200 OHM 1/10 W 5% 1608 R/TP |
|                     |     | R236     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R237     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R238     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R239     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R240     | 0RJ0000D677 | 0 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  |
|                     |     | R406     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R501     | 0RJ1004D677 | 1000000 OHM 1/10 W 5% 1608 R |
|                     |     | R502     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R505     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R508     | 0RJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R511     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R512     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R513     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R514     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R515     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R516     | 0RH1001D622 | 1K OHM 1 / 10 W 2012 5.00% D |
|                     |     | R517     | 0RJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R518     | 0RH1001D622 | 1K OHM 1 / 10 W 2012 5.00% D |
|                     |     | R519     | 0RJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R522     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R523     | 0RJ1000D677 | 100 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  |
|                     |     | R527     | 0RJ1003D677 | 100K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R528     | 0RJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP   |

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|                     |     | R529     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R531     | 0RJ3302D677 | 33K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R534     | 0RJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R535     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R536     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R537     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R538     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R539     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R540     | 0RJ0222D677 | 22 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R541     | 0RJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R542     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R543     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R544     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R545     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R564     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R580     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R581     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R582     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R585     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R586     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R587     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R588     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R591     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R592     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R593     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R594     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R595     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R596     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R597     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R701     | 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   |
|                     |     | R711     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R712     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R713     | 0RJ0472D677 | 47 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R714     | 0RJ1801D677 | 1.8K OHM 1/10 W 5% 1608 R/TP |
|                     |     | 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     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R727     | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R729     | 0RJ4700D677 | 470 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R730     | 0RJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R731     | 0RJ2700D677 | 270 OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R740     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R741     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R742     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R743     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R744     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R745     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R746     | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R752     | 0RJ1003D677 | 100K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R753     | 0RJ4701D677 | 4.7K OHM 1/10 W 5% 1608 R/TP |
|                     |     | 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   |
|                     |     | R767     | 0RJ0752D677 | 75 OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R768     | 0RJ1801D677 | 1.8K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R769     | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |

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| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
|                     |     | 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            |
|                     |     | R821     | 0RJ2202D677 | 22K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R822     | 0RH5600D622 | 560 1/10W 5 D.R/TP           |
|                     |     | R824     | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                     |     | R826     | 0RH0332D622 | 33 1/10W 5 D.R/TP            |
|                     |     | R827     | 0RH0332D622 | 33 1/10W 5 D.R/TP            |
|                     |     | R828     | 0RH0332D622 | 33 1/10W 5 D.R/TP            |
|                     |     | R829     | 0RH0332D622 | 33 1/10W 5 D.R/TP            |
|                     |     | R830     | 0RH0332D622 | 33 1/10W 5 D.R/TP            |
|                     |     | RA202    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA204    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA206    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA208    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA210    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA212    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA214    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA216    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA218    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA220    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA222    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA224    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA225    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA226    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA227    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA228    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA229    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA230    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA231    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA232    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA233    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA234    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA235    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA236    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA237    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA238    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA239    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA240    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA241    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
|                     |     | RA242    | 0RHZTCZ001A | 100 OHM 1/16 W 5% 3215 R/TP  |
| <b>OTHERS</b>       |     |          |             |                              |
|                     |     | J802     | 6612TAH003A | DJ-023 KSD R/ANGLE LB563B    |
|                     |     | X201     | 6202TST001E | SX-1 SUNNY CHIP 24MHZ 30PPM  |
|                     |     | X501     | 6202TST001E | SX-1 SUNNY CHIP 24MHZ 30PPM  |
| <b>POWER BOARD</b>  |     |          |             |                              |
|                     |     | C901     | 0CBZTBU002B | BULK PCX2 335 474K           |
|                     |     | C902     | 0CKZTBU003B | SC E 332M 12.5BW7 250V BK7.5 |

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|---------------------|-----|----------|-------------|------------------------------|
| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
| △                   |     | C903     | 0CKZTBU003B | SC E 332M 12.5BW7 250V BK7.5 |
| △                   |     | C904     | 0CBZTBU002C | BULK PCX2 335 104M           |
|                     |     | C905     | 0CZZTAB002C | KMF 18*40 SYE / SWE 400V 120 |
|                     |     | 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 F |
|                     |     | C915     | 0CE228ED630 | 2200UF KMG,RD 10V 20% BULK F |
|                     |     | C916     | 181-288L    | MKT 100V 823JTR PHS26823     |
|                     |     | C918     | 0CE228ED630 | 2200UF KMG,RD 10V 20% BULK F |
|                     |     | C919     | 0CKZTBU003B | SC E 332M 12.5BW7 250V BK7.5 |
|                     |     | C921     | 0CE228EF630 | 2200UF KMG 16V M FM5 BULK    |
|                     |     | C922     | 0CKZTTA002E | EKR3A102K09FK5 SAMWHA 1KV 10 |
|                     |     | C923     | 0CKZTTA002E | EKR3A102K09FK5 SAMWHA 1KV 10 |
|                     |     | C924     | 0CE336BH638 | 33UF KME 25V M FM5 TP5       |
|                     |     | BD901    | 0DD360000DA | D3SBA60 BK SHINDENGEN 600V   |
|                     |     | D901     | 0DD400709CB | UF4007 TP G.I DO204AL 1000V  |
|                     |     | D902     | 0DR400409AB | UF4004 TP G.I DO204AL 400V 1 |
|                     |     | D907     | 0DS113309AA | 1SS133 TP ROHM KOREA DO34 90 |
|                     |     | ZD901    | 0DZ470009BC | GDZ4.7B TP GRANDE DO34 0.5W  |
|                     |     | IC901    | 0IPMGIH001A | ICE2AS01 INFINEON 8P,DIP ST  |
|                     |     | IC904    | 0ISS431000A | KA431AZ (LM431AZ)            |
|                     |     | IC905    | 0ISS780500F | KA7805                       |
|                     |     | L901     | 150-A85F    | LX31 GET BAR CHOKE,3.3UH,LB8 |
|                     |     | L902     | 150-A85F    | LX31 GET BAR CHOKE,3.3UH,LB8 |
| △                   |     | LF901    | 6200TZ001A  | - GO BK L/FILTER,9MH,LB886F  |
| △                   |     | LF902    | 6200TZ001A  | - GO BK L/FILTER,9MH,LB886F  |
|                     |     | R901     | 0RD6803A609 | 680K OHM 1/2 W (7.0) 5% TA52 |
|                     |     | R902     | 0RD3902A609 | 39K OHM 1/2 W (7.0) 5% TA52  |
|                     |     | R903     | 0RD3902A609 | 39K OHM 1/2 W (7.0) 5% TA52  |
|                     |     | R904     | 6322TA080AA | TP8D13 DAEWOO +/- 15% 110/2  |
|                     |     | 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% TA52 |
|                     |     | R912     | 0RD1004A609 | 1.0M OHM 1/2 W (7.0) 5% TA52 |
|                     |     | 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 | 2.70K 1/6W 1% 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            |
| △                   |     | 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           |
| △                   |     | P901     | 6620TKB002A | BAE EUN AC UNIVERSAL 3PIN BL |
|                     |     | P903     | 366-164A    | YW396-03AV YEONHO 3P 3.96MM  |
| △                   |     | PC1      | 0ILI817000E | LTV-817M B 4P BK PHOTO COUPL |
| △                   |     | T901     | 6170TMZ125B | EER3016 340UH V-10PIN LB886F |
|                     |     | TH901    | 971-0054    | TIN 50MM TAPING              |

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|---------------------|-----|----------|-------------|------------------------------|
| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
| <b>SOUND BOARD</b>  |     |          |             |                              |
|                     |     | C1       | 0CE108EF618 | 1000UF KMG 16V M FL TP 5     |
|                     |     | C2       | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C3       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C4       | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C5       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C6       | 0CH8106F611 | 10UF 16V M 85STD(CYL) R/TP   |
|                     |     | C7       | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C8       | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C9       | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C10      | 0CH8105K611 | 1UF 50V M 85STD(CYL) R/TP    |
|                     |     | C11      | 0CH8105K611 | 1UF 50V M 85STD(CYL) R/TP    |
|                     |     | C12      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C13      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C15      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C16      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C18      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C21      | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0  |
|                     |     | C22      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C23      | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD)  |
|                     |     | C24      | 0CE477EF638 | 470UF KMG 16V M FM5 TP 5     |
|                     |     | C25      | 0CE477EF638 | 470UF KMG 16V M FM5 TP 5     |
|                     |     | C26      | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                     |     | C29      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C30      | 0CC121CK41A | 120PF 1608 50V 5% R/TP NP0   |
|                     |     | C31      | 0CC121CK41A | 120PF 1608 50V 5% R/TP NP0   |
|                     |     | C32      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C36      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C37      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                     |     | C38      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | C40      | 0CH3105F946 | 1UF 16V Z F 2012 R/TP        |
|                     |     | D1       | 0DS181009AA | KDS181 TP KEC SOT-23 80V 3   |
|                     |     | D2       | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D3       | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D5       | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | D6       | 0DS226009AA | KDS226 TP KEC SOT-23 80V 30  |
|                     |     | ZD2      | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | U2       | 0IXI951100A | X9511WS 8SOP TP PUSH BUTTON  |
|                     |     | U3       | 0ISG749600A | TDA7496L 20DIP BK 2W+2W AMP  |
|                     |     | U4       | 0IKE704200J | KIA7042AF SOT-89 TP 4.2V VOL |
|                     |     | U5       | 0ISS780500H | KA78M05-R 3P,D-PAK TP 5V 0.5 |
|                     |     | U7       | 0IPH401300B | HEF4013BT 14SOP TP DUAL D FL |
|                     |     | Q1       | 0TR162309CA | KSC1623 TP SAMSUNG SOT23 NP  |
|                     |     | Q2       | 0TR162309CA | KSC1623 TP SAMSUNG SOT23 NP  |
|                     |     | Q3       | 0TR162309CA | KSC1623 TP SAMSUNG SOT23 NP  |
|                     |     | R1       | 0RJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/T |
|                     |     | R2       | 0RJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/T |
|                     |     | R3       | 0RJ1000D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R4       | 0RJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/T |
|                     |     | R5       | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R6       | 0RJ2702D677 | 27K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R7       | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R8       | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R9       | 0RJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/T |
|                     |     | R10      | 0RJ1003D677 | 100K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R11      | 0RJ1003D677 | 100K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R12      | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R13      | 0RH0000D622 | 0 1/10W P-TYPE TAPPING       |
|                     |     | R14      | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | R15      | 0RJ1001D677 | 1K OHM 1/10 W 5% 1608 R/TP   |
|                     |     | R16      | 0RJ1003D677 | 100K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R17      | 0RJ0471D677 | 4.7 OHM 1/10 W 5% 1608 R/TP  |



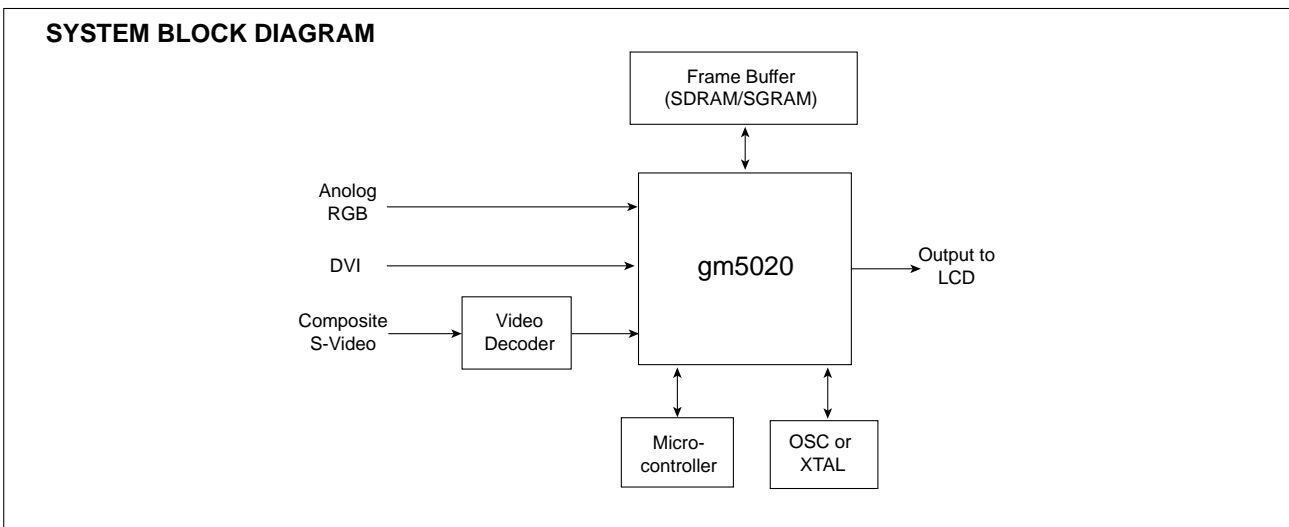
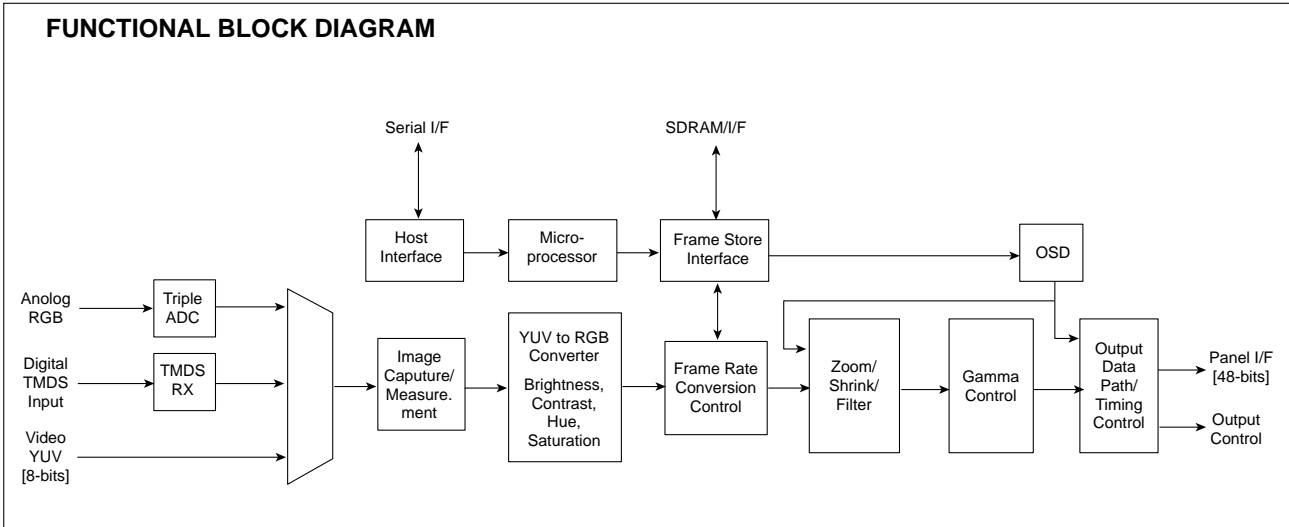
| DATE: 2002. 02. 18.  |     |          |             |                              |
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| *S                   | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
|                      |     | R18      | 0RJ0471D677 | 4.7 OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R19      | 0RJ3002D677 | 30000 OHM 1/10 W 5% 1608 R/T |
|                      |     | R20      | 0RJ3602D677 | 36K OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R21      | 0RH0101D622 | 1.0 1/10W 5 TA               |
|                      |     | R22      | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R23      | 0RJ3602D677 | 36K OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R24      | 0RH0101D622 | 1.0 1/10W 5 TA               |
|                      |     | R26      | 0RJ4702D677 | 47000 OHM 1/10 W 5% 1608 R/T |
|                      |     | R29      | 0RJ1502D677 | 15K OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R30      | 0RJ1502D677 | 15K OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R32      | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R33      | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                      |     | R69      | 0RJ1000D677 | 100 OHM 1/10 W 5% 1608 R/TP  |
|                      |     | J1       | 6612TAH003A | DJ-023 KSD R/ANGLE LB563B    |
|                      |     | J4       | 6612F00001C | DJ-S360LB KSD STERO R/A LIGH |
|                      |     | J6       | 6612F00005D | DJ-SW3P-LM KSD STERO R/A LIM |
|                      |     | L2       | 150-985J    | DR10*12 2MH 0.28MM 220.5T R/ |
|                      |     | LED1     | 0DLLT0130AA | LITEON LTL-4231HNBK BK GREEN |
|                      |     | S1       | 140-058B    | EVQ PB2 05K MATUSHITA NON 12 |
|                      |     | S2       | 140-058B    | EVQ PB2 05K MATUSHITA NON 12 |
|                      |     | S3       | 140-058B    | EVQ PB2 05K MATUSHITA NON 12 |
| <b>CONTROL BOARD</b> |     |          |             |                              |
|                      |     | LED1     | 0DLRH0058AA | ROHM SML-521MYWT86 R/TP GREE |
|                      |     | 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       | 0RH8200D622 | 820 1/10W 5 D.R/TP           |
|                      |     | R4       | 0RH8200D622 | 820 1/10W 5 D.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 |
|                      |     | R10      | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                      |     | R11      | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                      |     | R12      | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                      |     | R13      | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                      |     | R14      | 0RJ0000D677 | 0 OHM 1/10 W 5% 1608 R/TP    |
|                      |     | SW1      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW2      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW3      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW4      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW5      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW6      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW7      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
|                      |     | SW8      | 6600R000002 | SKQRAAE010 J-ALPS 12V DC 50M |
| <b>USB BOARD</b>     |     |          |             |                              |
|                      |     | C1       | 0CH8107F611 | 100UF 16V M 85STD(CYL) R/TP  |
|                      |     | C2       | 0CK103CK51A | 0.01UF 1608 50V 10% R/TP B(Y |
|                      |     | 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(Y |
|                      |     | C31      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |
|                      |     | C32      | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R  |

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| *S                  | *AL | LOC. NO. | PART NO.    | DESCRIPTION / SPECIFICATION  |
|                     |     | 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 3   |
|                     |     | ZD1      | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD4      | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD7      | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD8      | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD11     | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | ZD12     | 0DZ560009DA | UDZ S 5.6B TP ROHM-K SOD323  |
|                     |     | U1       | 0IRH033200A | BA033FP-E2 MOLD-3 TP REGULAT |
|                     |     | U2       | 0IPRPTI007A | TUSB2036 TEXAS INSTRUMENT 32 |
|                     |     | U3       | 0ITI204200B | TPS2042ADR TEXAS INSTRUMENT  |
|                     |     | L4       | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L5       | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L13      | 6210TCE001B | HH-1H3216-500JT CERATEC 3216 |
|                     |     | L14      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L15      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L16      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L17      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L18      | 6210TCE001B | HH-1H3216-500JT CERATEC 3216 |
|                     |     | L19      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | L20      | 6210TCE001P | HB-1S2012-121JT CERATECH 201 |
|                     |     | 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/TP |
|                     |     | 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/TP |
|                     |     | R40      | 0RJ1501D677 | 1.5K OHM 1/10 W 5% 1608 R/TP |
|                     |     | R41      | 0RJ1002D677 | 10K OHM 1/10 W 5% 1608 R/TP  |
|                     |     | X1       | 6202TST001C | SX-1, SUNNY SMD, 6.0MHZ ,50P |

# PIN CONFIGURATION

GM5020

GENESIS 292P

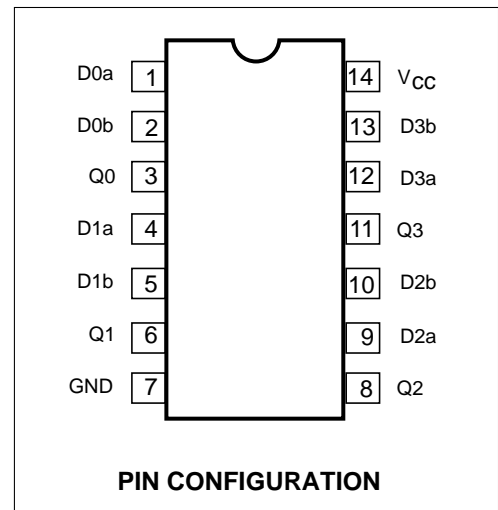


74F08D 14P

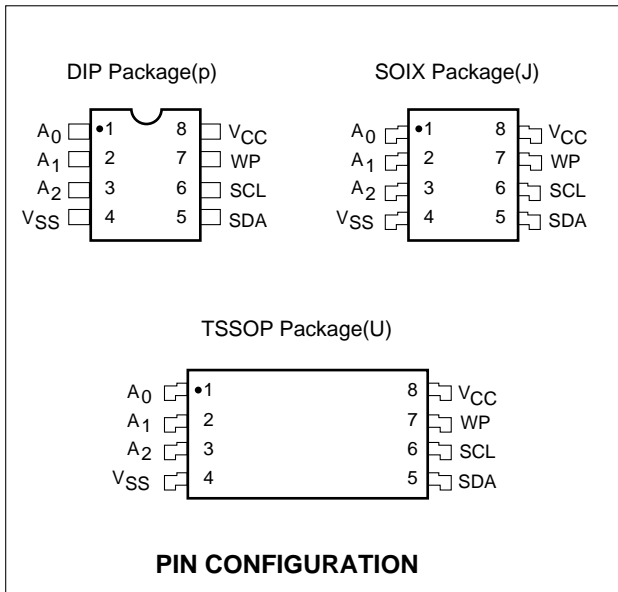
SOP TP QUAD 2-INPUT

### PIN FUNCTION

| INPUT |     | OUTPUT |
|-------|-----|--------|
| Dna   | Dnb | Qn     |
| L     | L   | L      |
| L     | H   | L      |
| H     | L   | L      |
| H     | H   | H      |



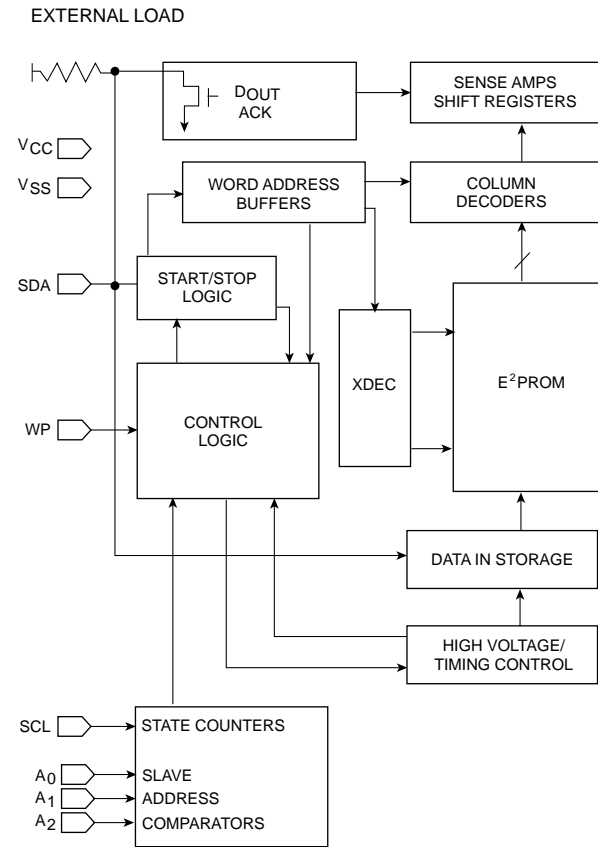
## CAT24WC08J-TE13 8P



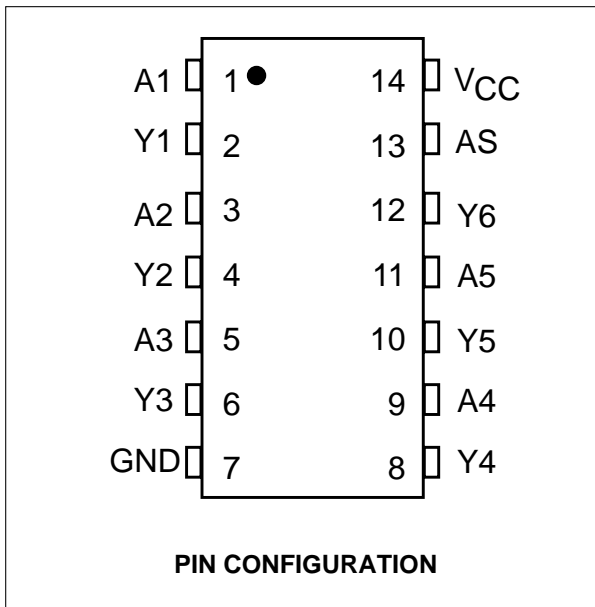
### PIN FUNCTION

| Pin Name                                         | Function                    |
|--------------------------------------------------|-----------------------------|
| A <sub>0</sub> , A <sub>1</sub> , A <sub>2</sub> | Device Address Inputs       |
| SDA                                              | Serial Data/Address         |
| SCL                                              | Serial Clock                |
| WP                                               | Write Protect               |
| V <sub>cc</sub>                                  | +1.8V to +6.0V power Supply |
| V <sub>ss</sub>                                  | Ground                      |

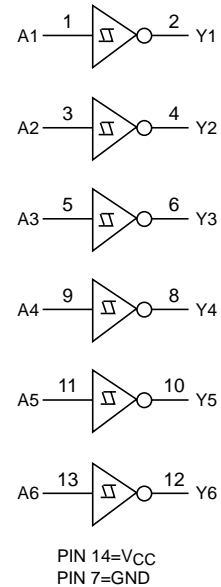
### BLOCK DIAGRAM



## MC74HCT14ADR2 14P

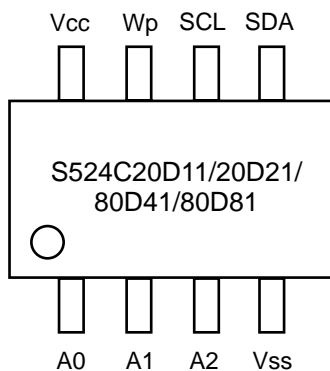


### BLOCK DIAGRAM



## S524C20D11/20D21/80D41/80D81 SERIAL EEPROM

### PIN FUNCTION

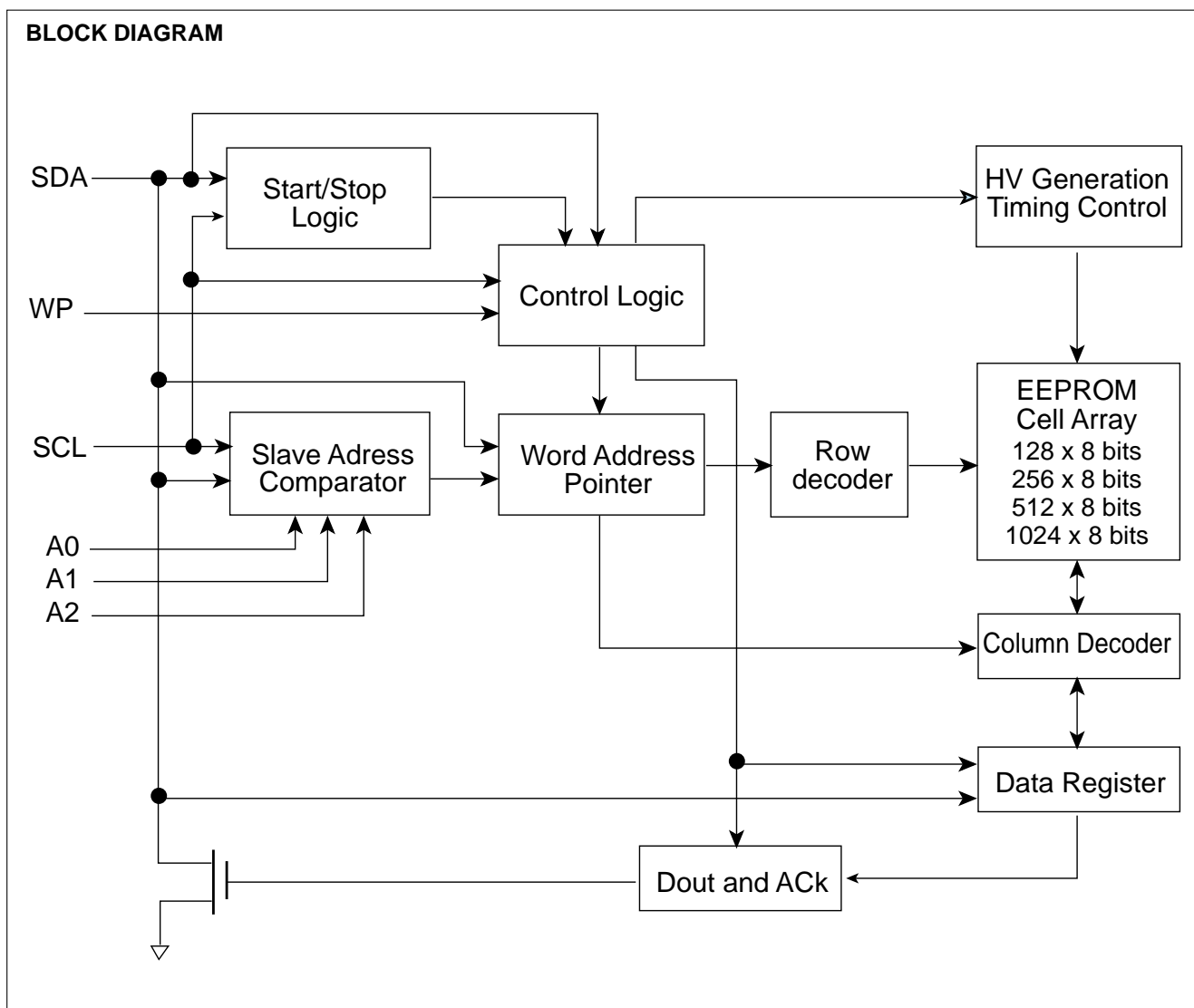


**PIN CONFIGURATION**

| 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 Vcc or Vss of the device.                                                                                                                     | 1            |
| Vss        | -     | Ground pin.                                                                                                                                                                                                                                                 | -            |
| SDA        | I/O   | Bi-directional data pin for the I <sup>2</sup> C-bus serial data interface. Schmitt trigger input and open-drain output. An external pull-up resistor must be connected to Vcc. Typical values for this pull-up resistor are 4.7k (100kHz) and 1k (400kHz). | 3            |
| SCL        | Input | Schmitt trigger input pin for serial clock input.                                                                                                                                                                                                           | 2            |
| SDA        | I/O   | Input pin for hardware write protection control. If you tie this pin to Vcc, the write function is disabled to protect previously written data in the entire memory; if you tie it to Vss, the write function is enabled.                                   | 1            |
| Vcc        | -     | Single power supply.                                                                                                                                                                                                                                        | -            |

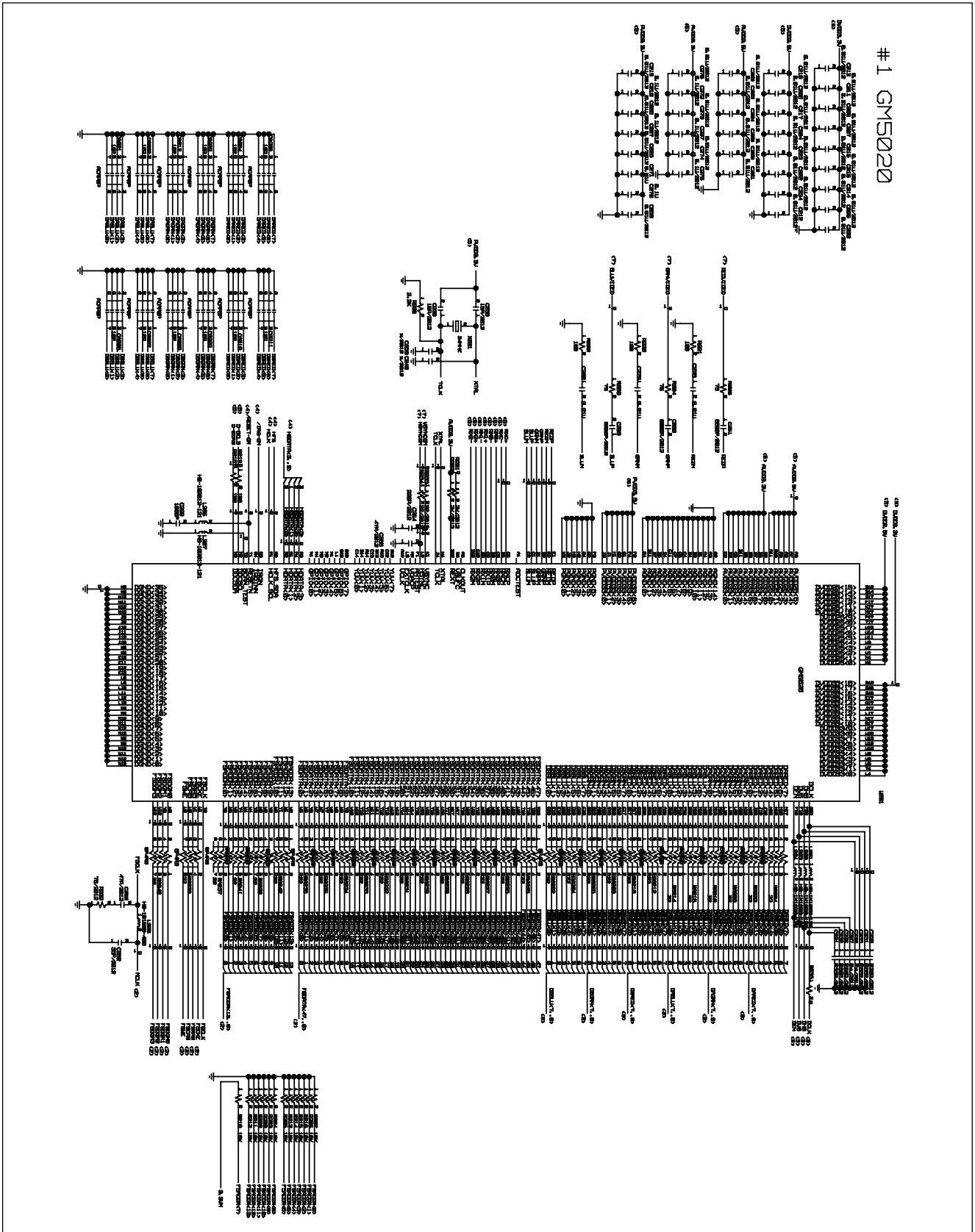
**NOTE:** See following page for diagrams of pin circuit types 1, 2 and 3.

### BLOCK DIAGRAM



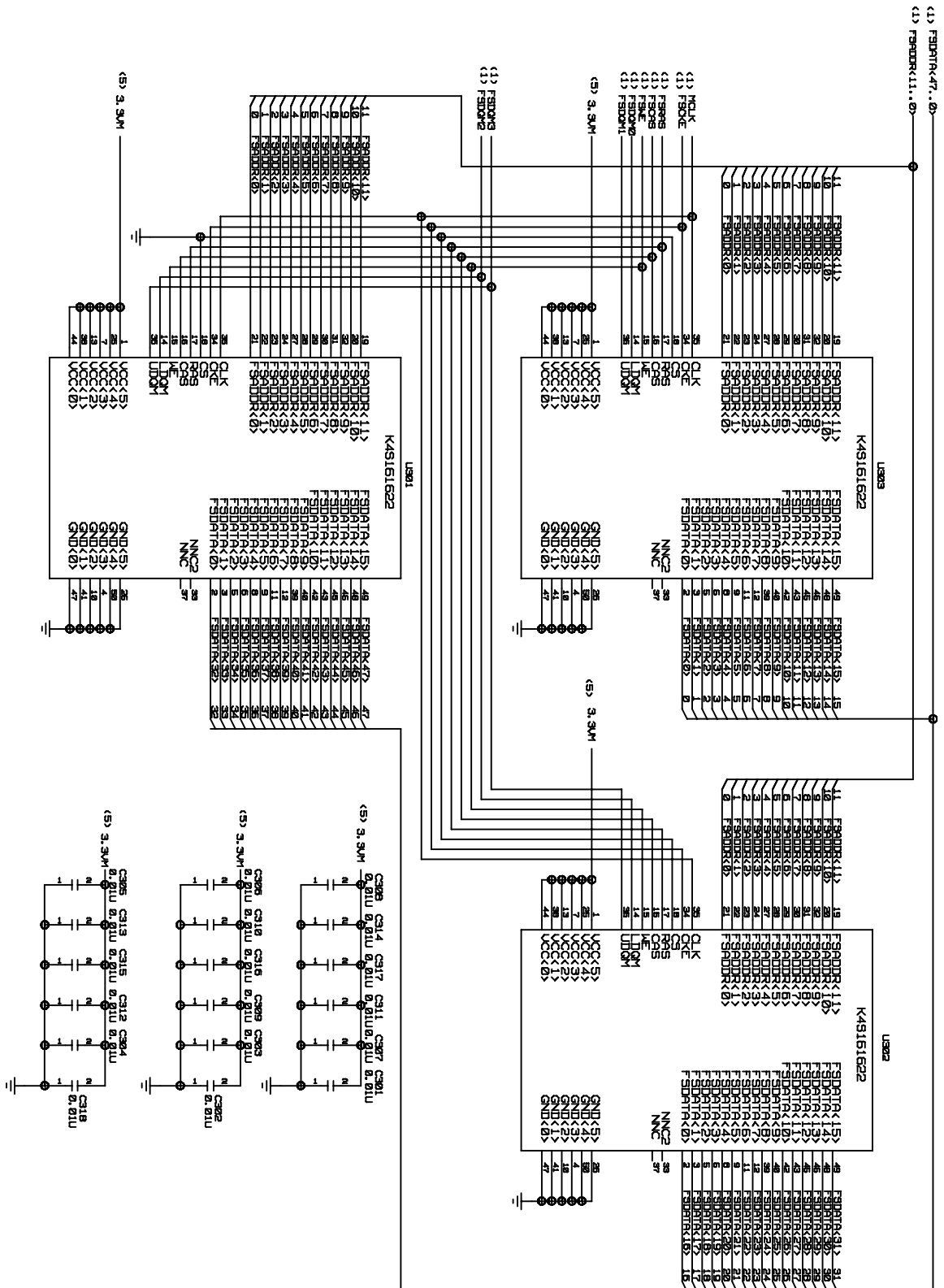
# SCHEMATIC DIAGRAM

## 1. GM5020



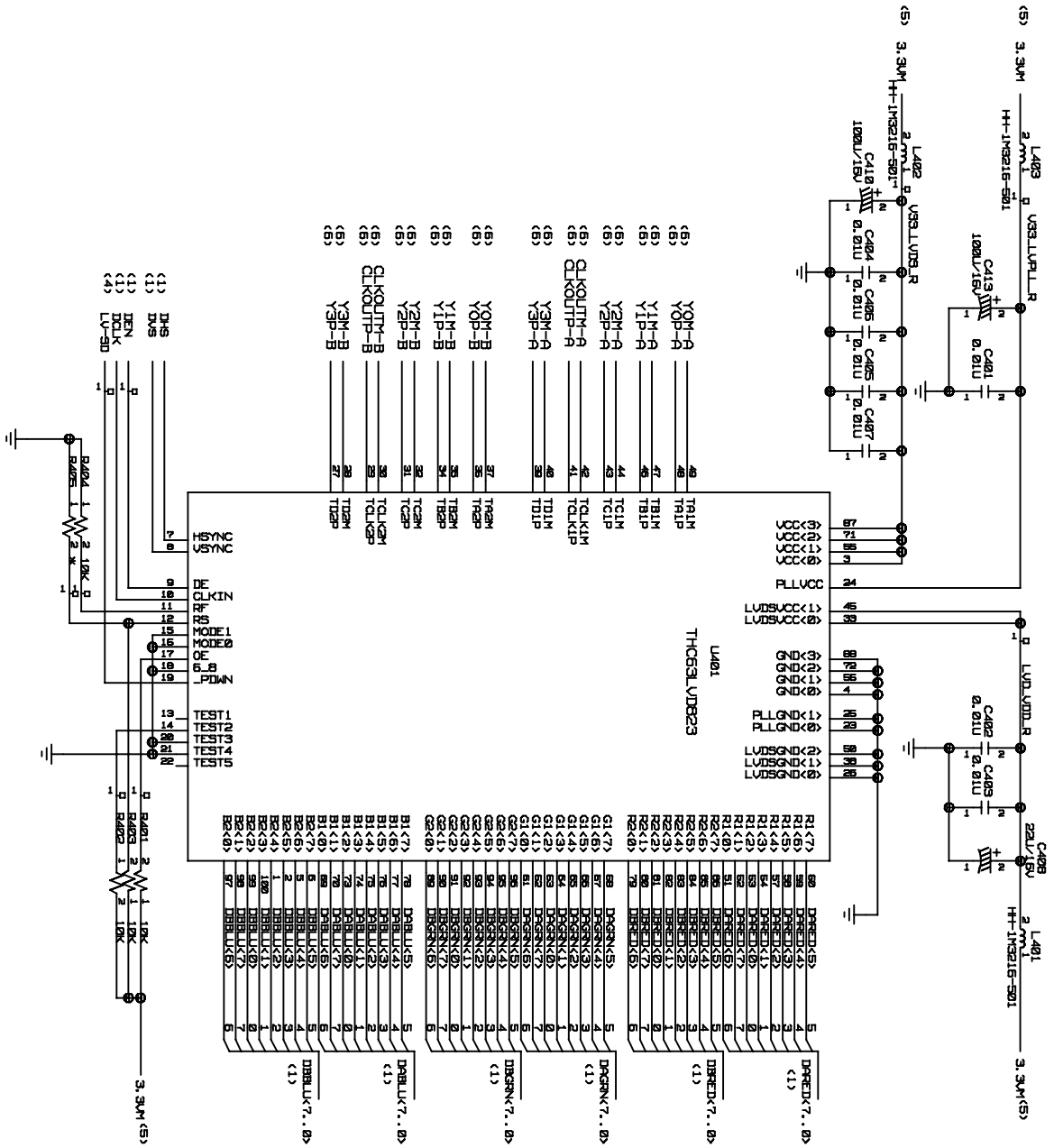
## 2. MEMORY

### #2 MEMORY



### 3. LVDS

## #3 LVDS

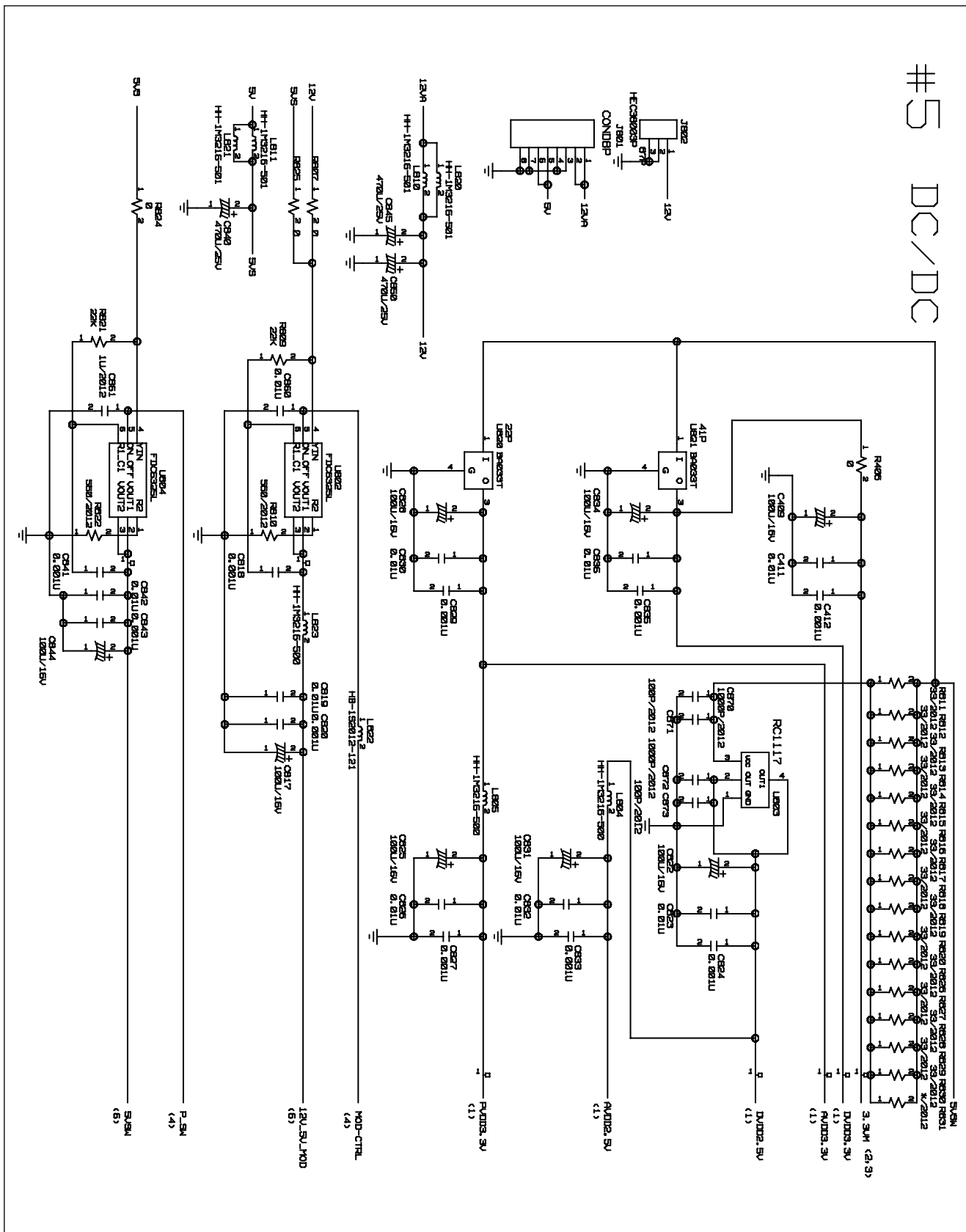






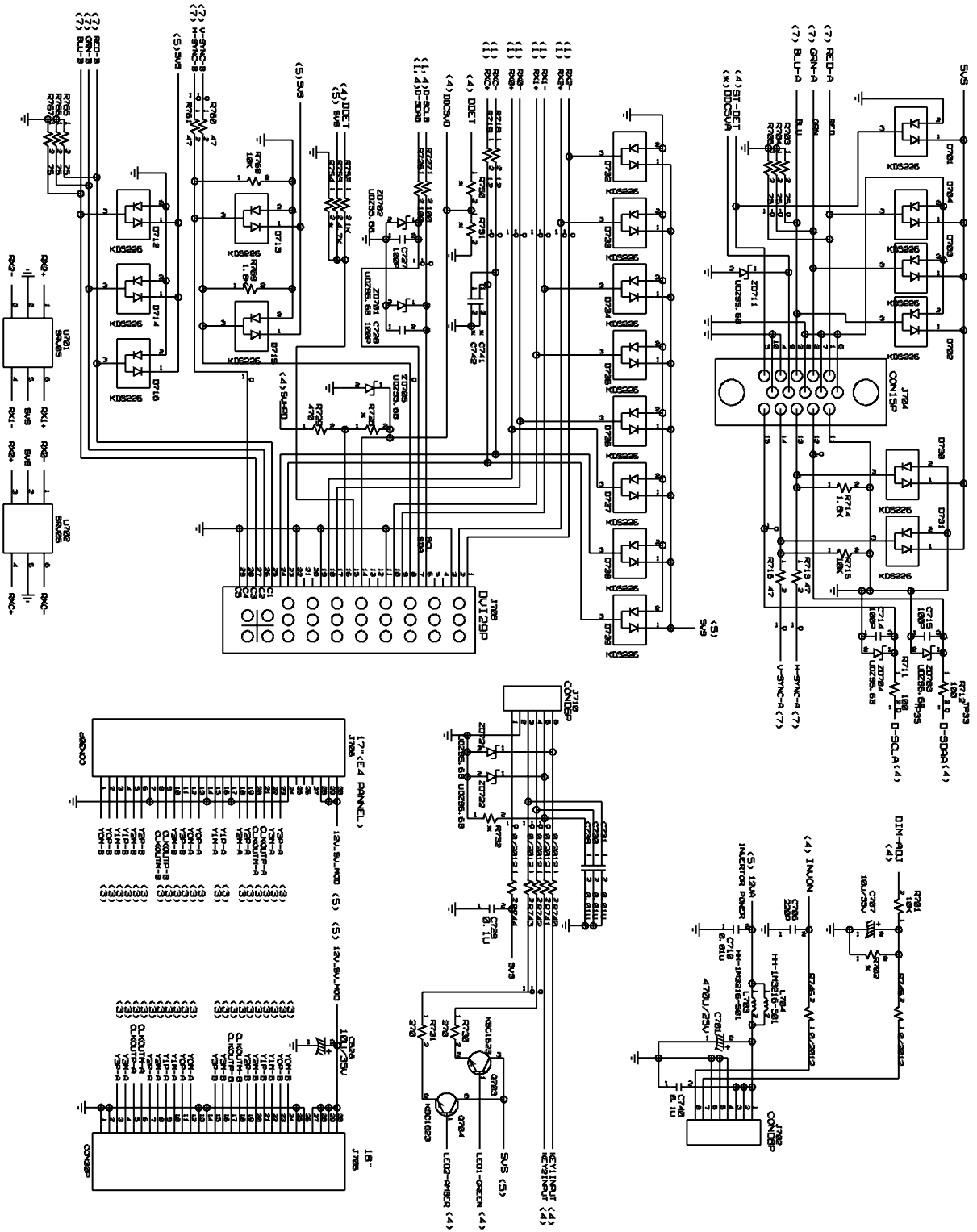
# 5. DC/DC

## #5 DC/DC



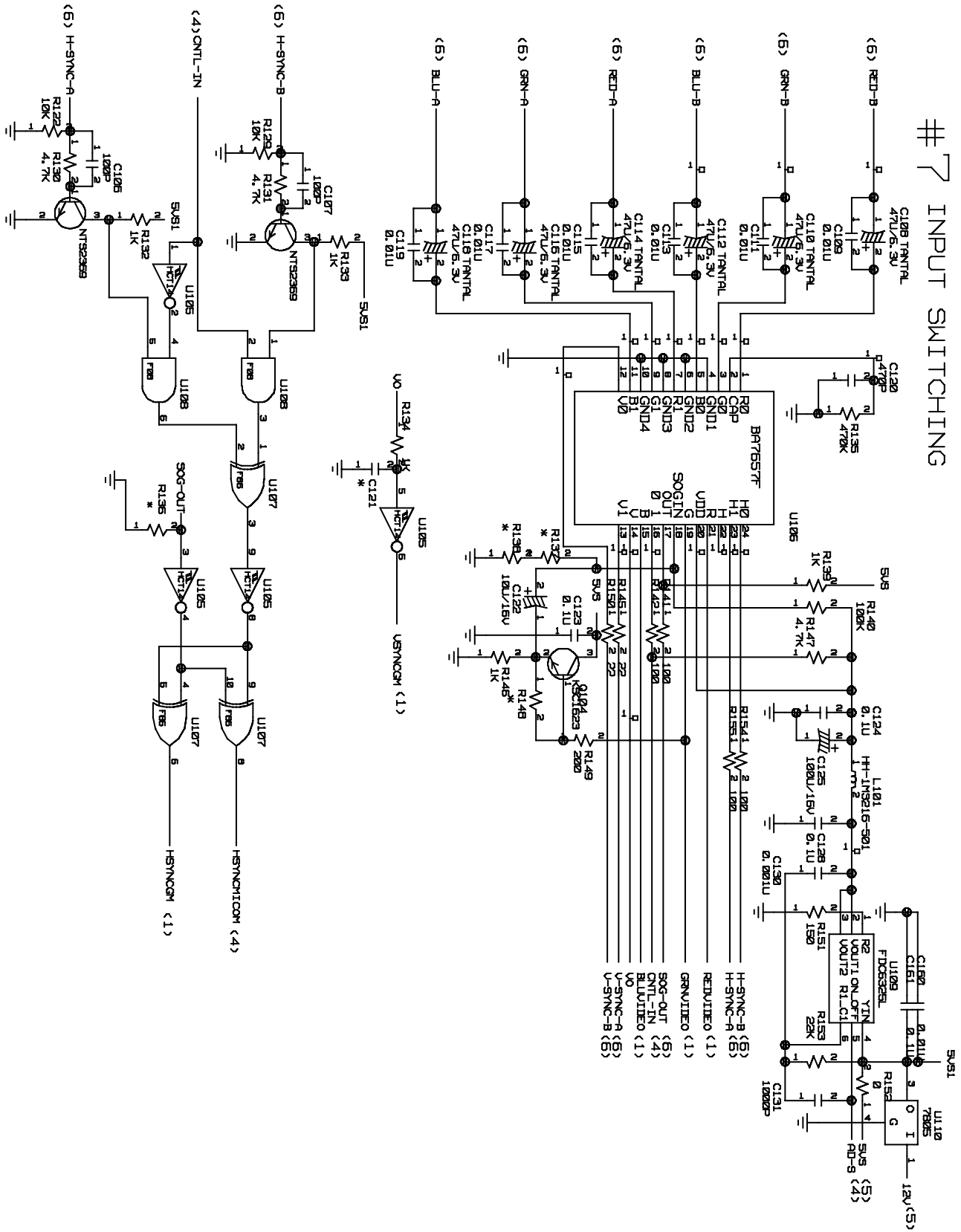
# 6. CONNECTOR

## #6 CONNECTOR

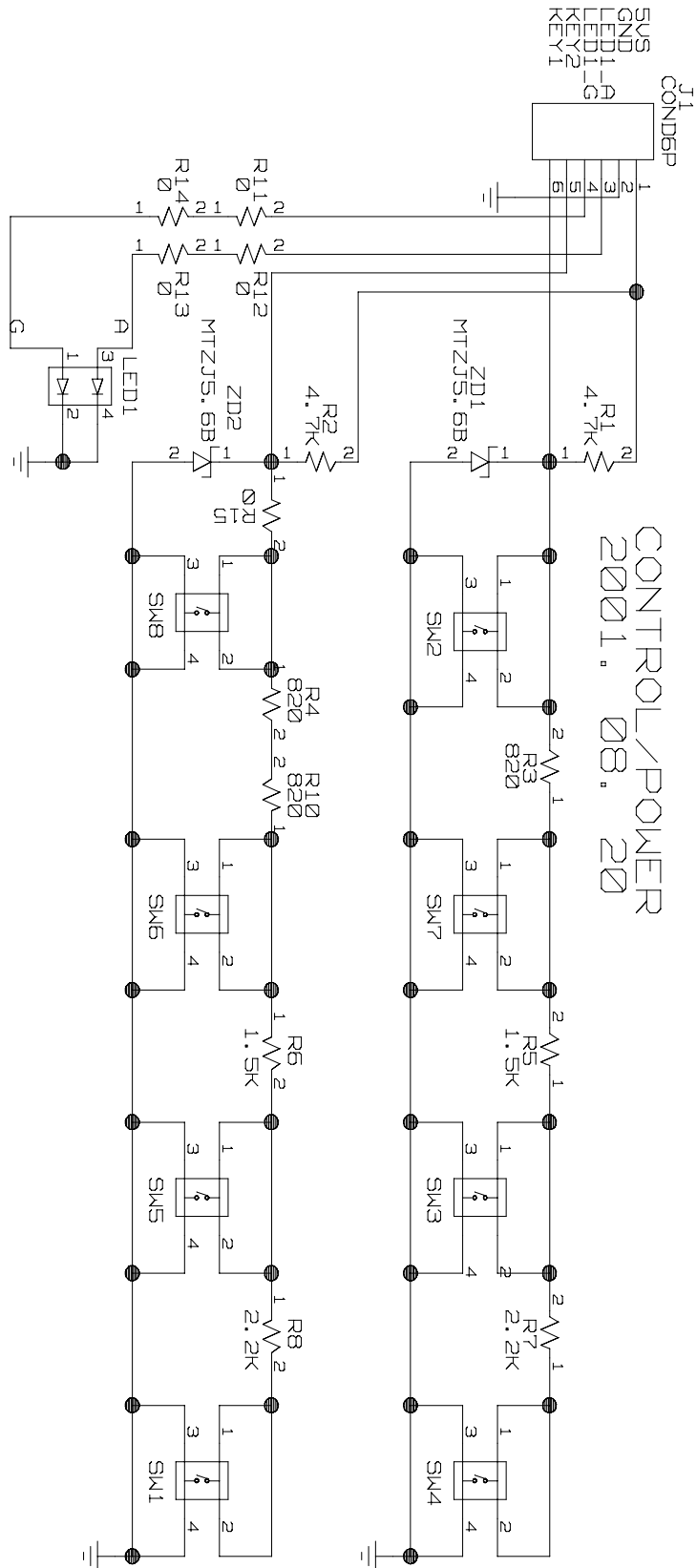


# 7. INPUT SWITCHING

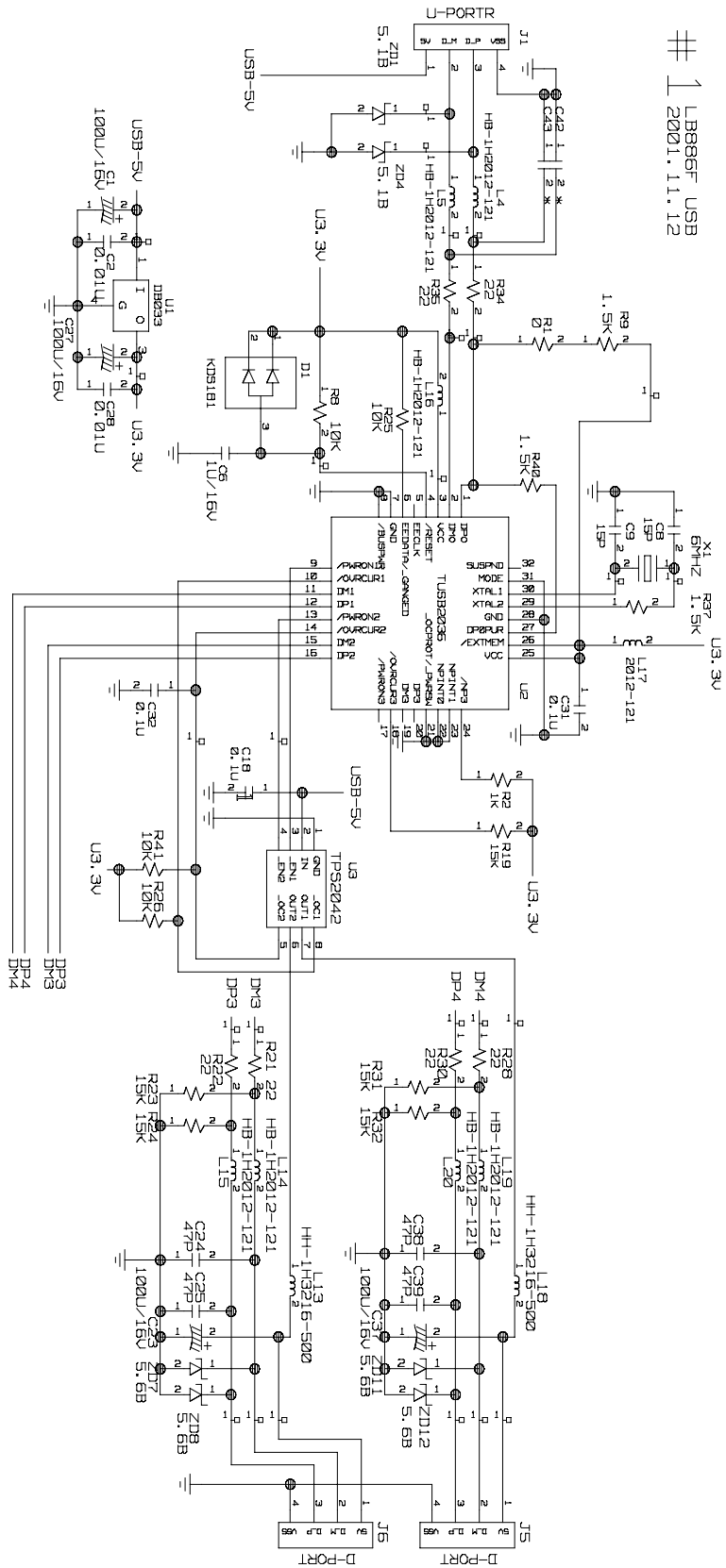
## #7 INPUT SWITCHING



## 8. CONTROL KEY



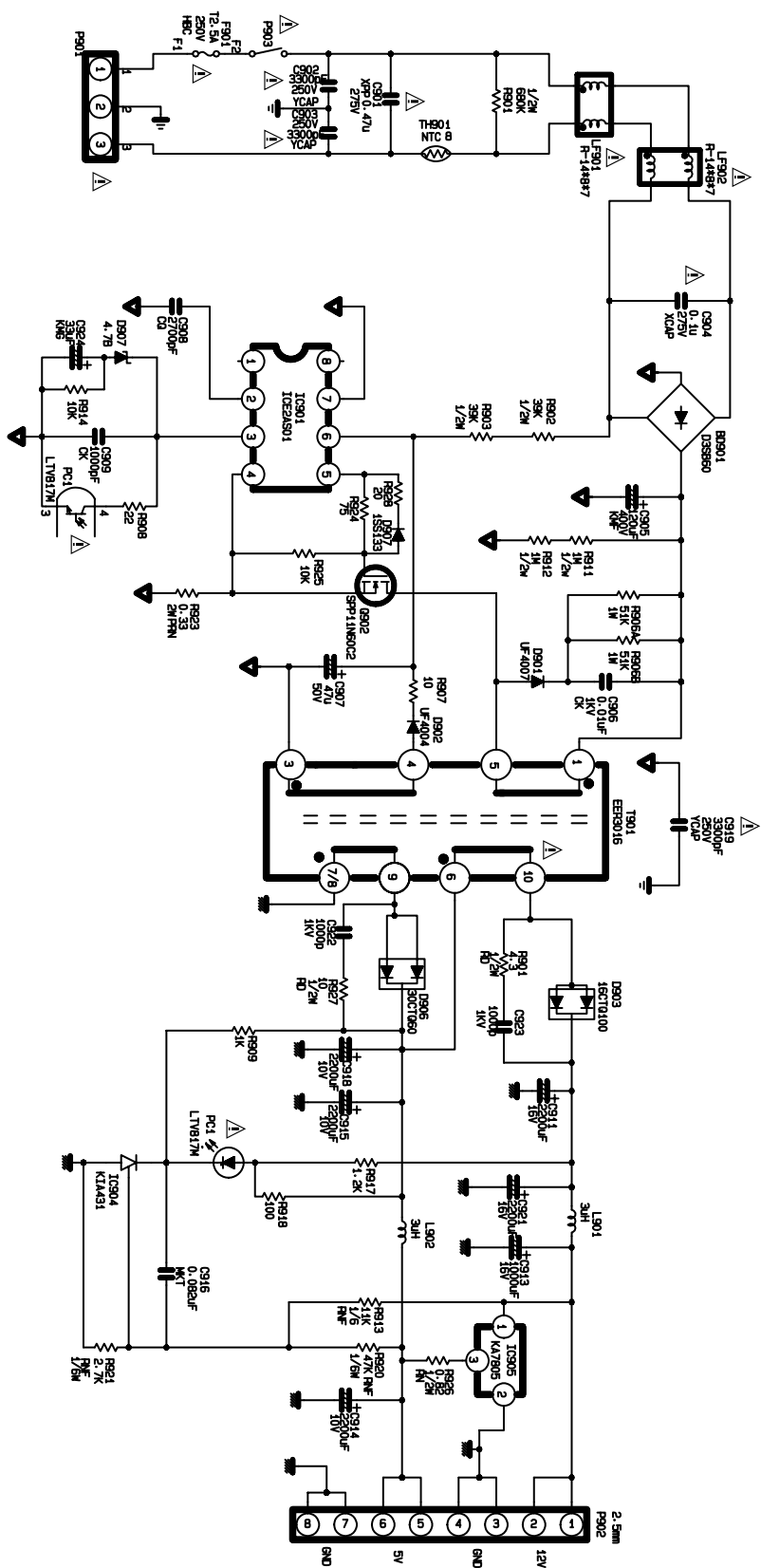
# 9.USB



# 10. POWER

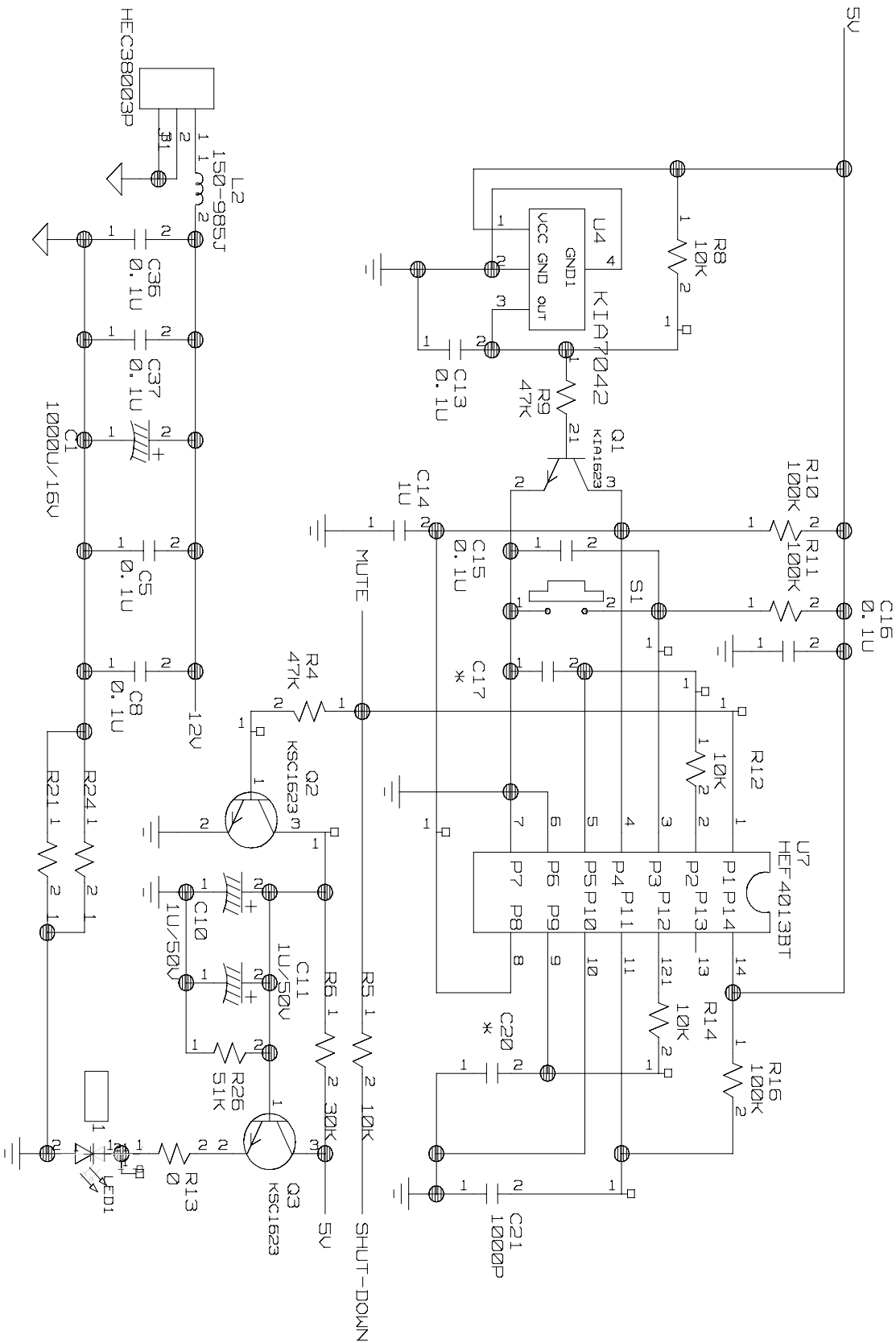
LB886F Internal Power Circuit

2001.11.21



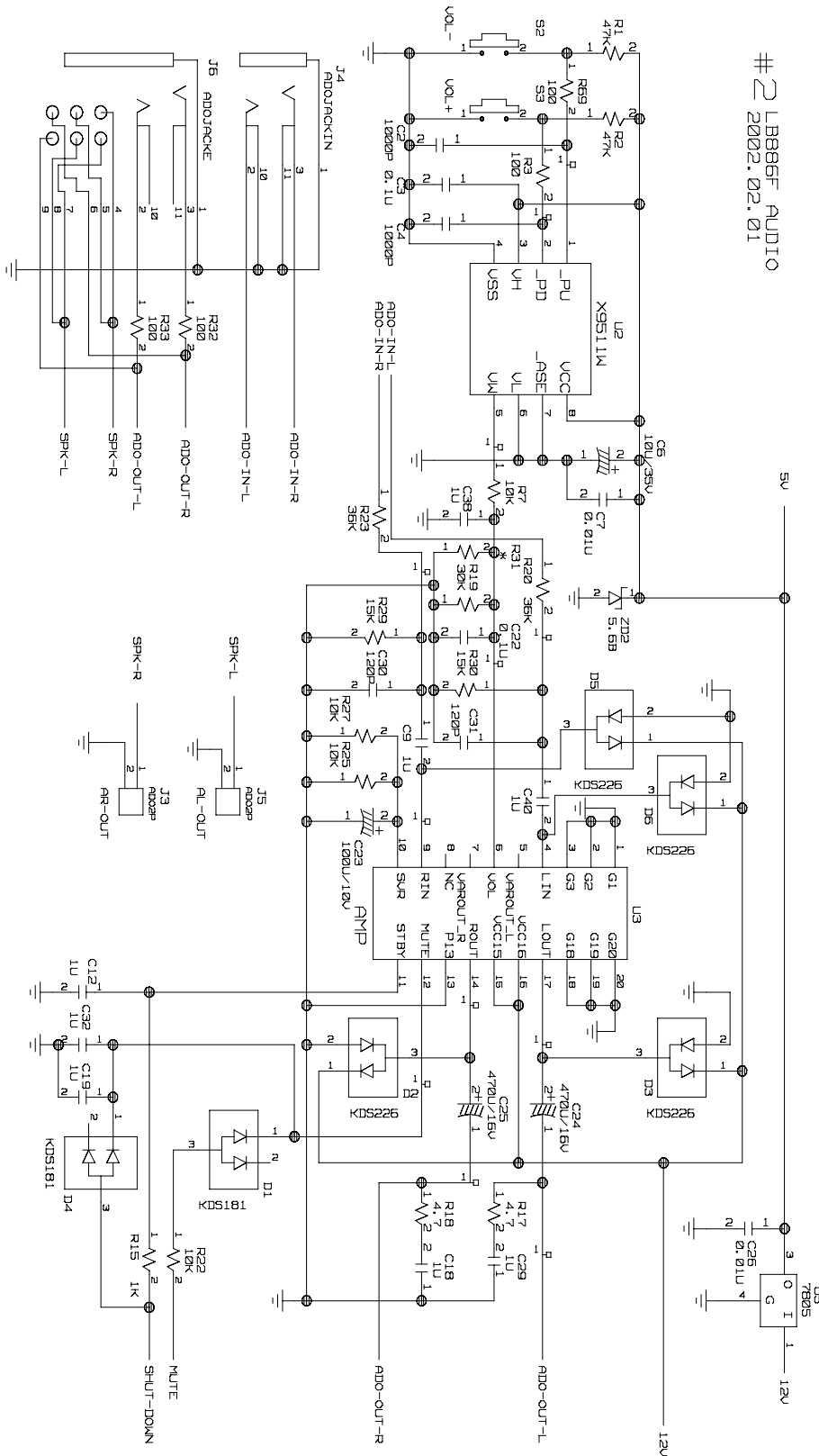
# 11. AUDIO

# 1 LB886F AUDIO  
# 2002.02.01



# 12. AUDIO

#2 LB886F AUDIO  
2002.02.01







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