NEC

PART NO. 599910618

SERVICE MANUAL

COLOR MONITOR **LCD1711M (UK)/(CE)**

Model Series 872

NEC-MITSUBISHI ELECTRIC VISUAL SYSTEMS CORPORATION

NOVEMBER 2002

200212
08E11ABM
08E12ABM

WARNING

The SERVICE PERSONNEL should have the appropriate technical training, knowledge and experience necessary to:

- Be familiar with specialized test equipment, and
- Be careful to follow all safety procedures to minimize danger to themselves and their coworkers.

To avoid electrical shocks, this equipment should be used with an appropriate power cord.

This equipment utilized a micro-gap power switch. Turn off the set by first pushing power switch. Next, remove the power cord from the AC outlet.

To prevent fire or shock hazards, do not expose this unit to rain or moisture.

This symbol warns the personnel that un-insulated voltage within the unit may have sufficient magnitude to cause electric shock.

This symbol alerts the personnel that important literature concerning the operation and maintenance of this unit has been included.
Therefore, it should be read carefully in order to avoid any problems.

PRODUCT SAFETY CAUTION

1. When parts replacement is required for servicing, always use the manufacturer's specified replacement.
2. When replacing the component, always be certain that all the components are put back in the place.
3. As for a connector, pick and extract housing with fingers properly since a disconnection and improper contacts may occur, when wires of the connector are led.
4. Use a proper screwdriver. If you use screwdriver that does not fit, you may damage the screws.

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Recommended Use

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Safety Precautions and Maintenance

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE LCD COLOR MONITOR:

- **DO NOT OPEN THE MONITOR.** There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks. Refer all servicing to qualified service personnel.
- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- Do not place any objects onto the monitor and do not use the monitor outdoors.
- The inside of the flourescent tube located within the LCD monitor contains mercury. Please follow the bylaws or rules of your municipality to dispose of the tube properly.

Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the monitor.
- If the monitor has been exposed to rain or water.
- If the monitor has been dropped or the cabinet damaged.
- If the monitor does not operate normally by following operating instructions.
- Do not bend power cord.
- Do not use monitor in high temperatured, humid, dusty, or oily areas.

CAUTION

- If monitor or glass is broken, do not come in contact with the liquid crystal and handle with care.
- Allow adequate ventilation around the monitor so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources. Do not put anything on top of monitor.
- The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet which is easily accessible.
- Handle with care when transporting. Save packaging for transporting.

English

- Image Persistence: Image persistence is when a residual or “ghost” image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors’ image persistence is not permanent, but constant images being displayed for a long period of time should be avoided.
  To alleviate image persistence, turn off the monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.
  NOTE: As with all personal display devices, NEC-Mitsubishi Electronics Display-Europe recommends using a moving screen saver at regular intervals whenever the screen is idle or turning off the monitor when not in use.

CORRECT PLACEMENT AND ADJUSTMENT OF THE MONITOR CAN REDUCE EYE, SHOULDER AND NECK FATIGUE. CHECK THE FOLLOWING WHEN YOU POSITION THE MONITOR.

- For optimum performance, allow 20 minutes for warm-up.
- Adjust the monitor height so that the top of the screen is at or slightly below eye level. Your eyes should look slightly downward when viewing the middle of the screen.
- Position your monitor no closer than 40 cm and no further away than 70 cm from your eyes. The optimal distance is 58 cm.
- Rest your eyes periodically by focusing on an object at least 6 m away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections. Adjust the monitor tilt so that ceiling lights do not reflect on your screen.
- If reflected light makes it hard for you to see your screen, use an anti-glare filter.
- Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any cleaning solution or glass cleaner!
- Adjust the monitor ’s brightness and contrast controls to enhance readability.
- Use a document holder placed close to the screen.
- Position whatever you are looking at most of the time (the screen or reference material)directly in front of you to minimize turning your head while you are typing.
- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (after-image effects).
- Get regular eye checkups.

Ergonomics

To realize the maximum ergonomics benefits, we recommend the following:

- Use the preset Size and Position controls with standard signals
- Use the preset Color Setting
- Use non-interlaced signals with a vertical refresh rate between 60 - 75 Hz
- Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue to insufficient contrast

Introduction

English

About the Product

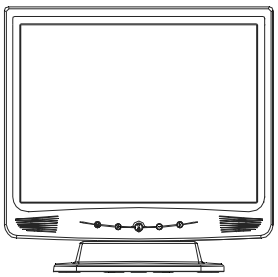
Having a 17” flat panel screen with an active matrix, thin-film transistor (TFT) liquid crystal display (LCD), this product also demonstrates following outstanding features.

- Analog signal input
- Active matrix TFT LCD technology
- 1280 x 1024 addressable pixels
- 17” diagonal screen size
- 31.5 ~ 80 kHz horizontal scan
- 56 ~ 75 Hz refresh rate
- VESA wall mountable
- Auto-adjustment
- Multilingual OSD user controls
- Foldable stand design brings users the conveniences for easy storage and VESA Mounting applications
- VESA DPMS power saving
- Built-in speakers for multimedia application
- Kensington lock capability
- Power Supply: AC 100 - 120 V / 220 - 240 V 50/60 Hz
- Current Rating: 0.8 A @ 100 - 120 V / 0.4 A @ 220 - 240 V
- Weight: 4.9 kg (10.8 lbs)
- Environmental Considerations:

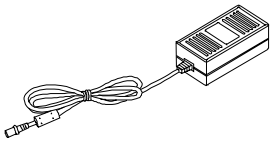
Operating Temperature:	5 °C to 35 °C
Humidity:	30 % to 80 %
Altitude:	0 to 3,050 m
Storage Temperature:	-10 °C to +60 °C
Humidity:	10 % to 85 %
Altitude:	0 to 12,000 m

English

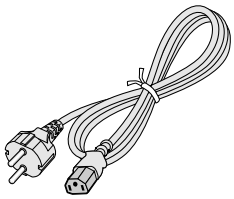
Package Overview



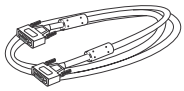
LCD Display



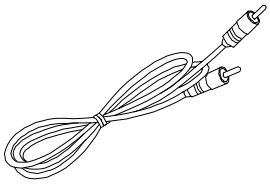
Power Adapter



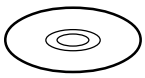
Power Cord



VGA Signal Cable



Audio-In Cable



CD ROM

User's Manual

Declaration of the Manufacturer

We hereby certify that the monitor LCD1711M is in compliance with Council Directive 73/23/EEC:

– EN 60950

Council Directive 89/336/EEC:

– EN 55022
– EN 61000-3-2
– EN 61000-3-3
– EN 55024

and marked with:

CE

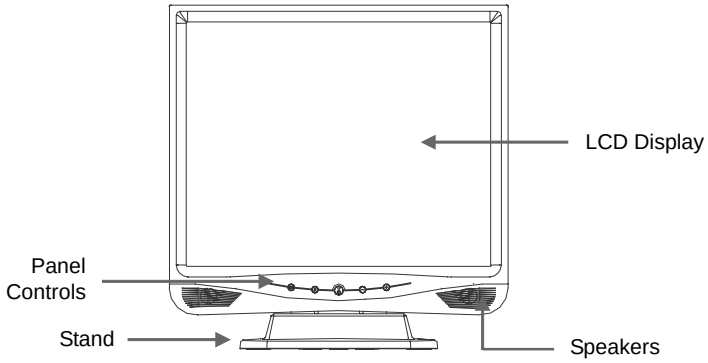
NEC-Mitsubishi Electric Visual Systems Corporation
4-13-23, Shibaura,
Minato-Ku
Tokyo 108-0023, Japan

Installation

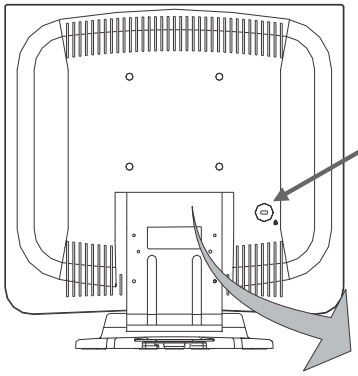
English

Product Overview

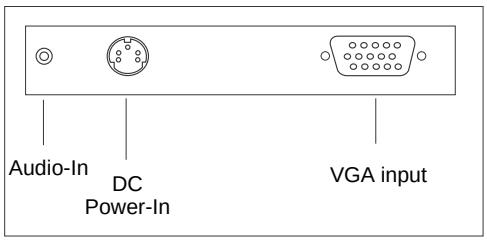
Front View



Rear View



Connector Ports

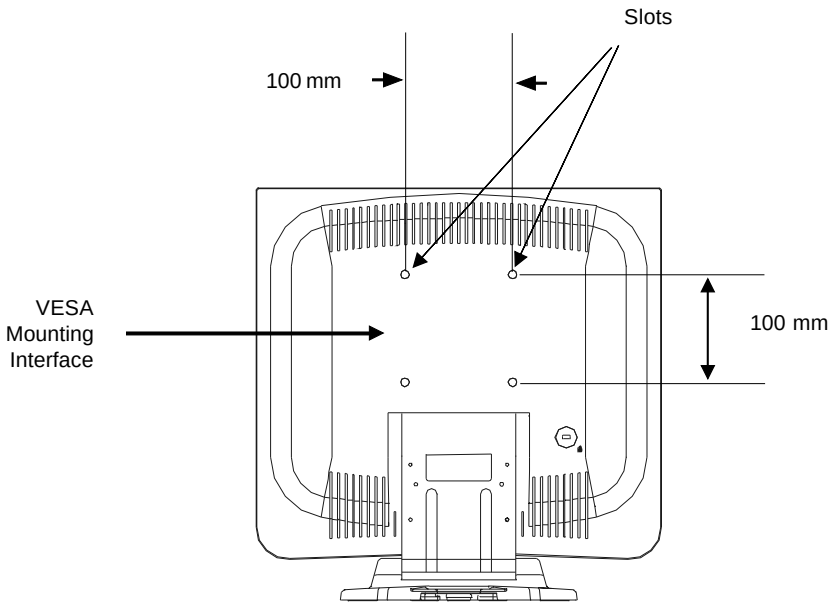


VESA Mount on your monitor

English

This monitor conforms to the VESA Flat Panel Mounting Physical Mounting Interface Standard which defines a physical mounting interface for flat panel monitors, and corresponding standards for flat panel monitor mounting devices, such as wall and table arms. The VESA mounting interface is located on the back of your monitor.

To mount the monitor on a swing arm or other mounting fixture, follow the instruction included with the mounting fixture to be used.



Caution! Please select the proper screws!

The depth from plastic back cover to the bottom of the screw hole is 8 mm. The spec is M4 screw. To fulfil the safety requirements the monitor must be mounted to an arm which guarantees the necessary stability under consideration of the weight of the monitor. The LCD monitor shall only be used with an approved arm (e.g. GS mark).

Connecting the Display (Figure 8.1)

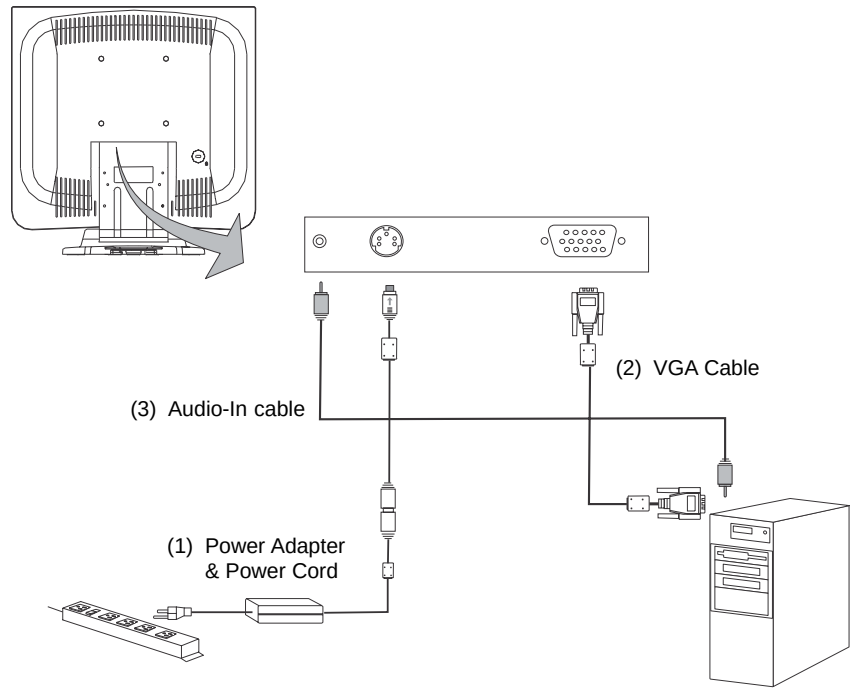
To set up this display, please refer to the following figure and procedures.

1. Be sure all equipments are off.
2. Connect the DC power cord to the power connector; plug one end of the AC power cord into the power adapter, and then the other end into an electrical outlet (1).
3. Connect the VGA signal cable from display VGA input connector to the 15-pin connector of your host computer and tighten the screws (2).
4. Connect the Audio-In cable from audio input port of your display to the Audio-out port of your computer (3).
5. Turn on your computer and display.

Notice: To ensure the LCD display can work well with your computer, please configure the display mode of your graphic card to make it less than or equal to 1280 x 1024 resolution and make sure timing of the display mode is compatible with the LCD display. We have listed the "Compatibility Modes" of this LCD display in appendices for your reference.

English

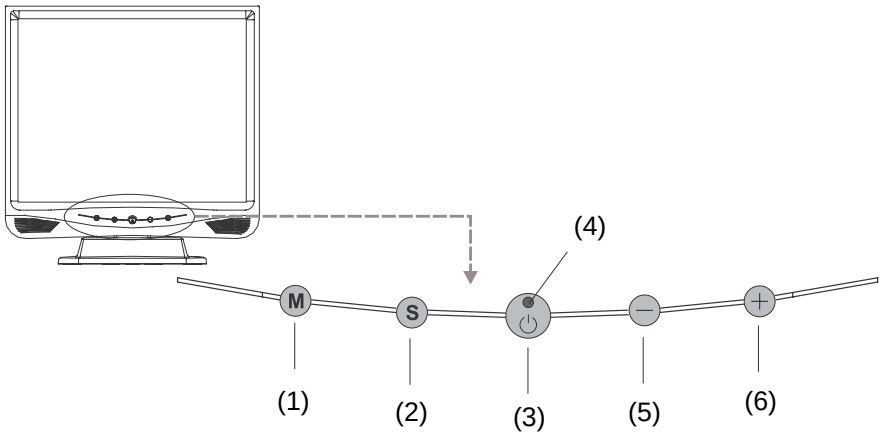
Figure 8.1



User Controls

English

Front Panel Controls



No. / Icon		Control	Function
(1)	**M**	Menu Button	Display the OSD menus.
(2)	**S**	Select /Auto	1. To select the adjustment items from OSD menus. 2. To activate the “Auto Adjustment” function to obtain an optimum image.
(3)	⏻	Power	Switch on/off the power of the LCD display.
(4)		Power LED	1. Green indicates the display is turned on. 2. Amber indicates the display is in power-saving mode.
(5)	**–**	1. Minus / 2. Brightness	1. Decrease value of the adjustments items. 2. Adjust the brightness of image.
(6)	**+**	1. Plus / 2. Mute On/Off	1. Increase value of the adjustment items. 2. Make the volume function Ineffective/effective.

English

1. Press the **"M"** button to display the OSD Menus. Press the **"M"** button to move between the OSD Menus. Press **"S"** to enter the functions to be adjusted and then press **"S"** to move between functions.
2. Adjust the value of the option by pressing **"–"** and **"+"**. Press **"S"** to confirm your choice.
3. To exit the OSD Menus, move to **"Fourth OSD Menu"** and press **"M"**.

On-Screen Display Menus

First OSD Menu:

- **Auto-Adjustment**
  Choose this function to obtain an optimum image.
- **Contrast**
  Adjusts the contrast of the display image.
- **Horizontal Position**
  Changes the horizontal position of the image.
- **Vertical Position**
  Changes the vertical position of the image.
- **Frequency**
  Changes the display data frequency to match the frequency of your graphic card. When you are experiencing vertical flickering bar, use this function to make an adjustment.
- **Tracking**
  Synchronizes the signal timing of the display to that of the graphic card. When you are experiencing unstable to flickering image, use this function to make an adjustment.

Second OSD Menu:

- **Display Mode**
  Selects this function to demonstrate the display resolution, vertical refresh, and horizontal scan of the current mode
- **OSD Off-Time**
  Adjusts the time period for OSD menu disappear.
- **Language**
  Chooses the language you need.
- **Text-Graphic**
  Toggles between VGA text mode (mode M03H) and graphic mode (mode M13H).
- **Sharpness**
  Adjust the sharpness of the image.
  (This function is disabled when input signal is 1280 x 1024.)
- **Reset**
  Returns the display parameters of the current mode to its factory default settings.

Third OSD Menu:

- **Volume**
  It allows you to control the volume sound.
- **Mute**
  It allows you to disable the sound immediately.

Fourth OSD Menu:

- **Color Setting**
  Adjusts the color temperature.
- **Color Adjustment-Red**
  It allows you to adjust the red color of the display.
- **Color Adjustment-Green**
  It allows you to adjust the green color of the display.
- **Color Adjustment-Blue**
  It allows you to adjust the blue color of the display.

Appendix

English

Troubleshooting

If you are experiencing trouble with the LCD display, refer to the following. If the problem persists, please contact your local dealer or our service center.

Problem: No image appears on screen.

- Check that all the I/O and power connectors are correctly and well connected as described in the "Installation" section.
- Make sure the pins of the connectors are not crooked or broken.

Problem: Partial image or incorrectly displayed image.

- Check to see if the resolution of your computer is higher than that of the LCD display.
- Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024.

Problem: Image has vertical flickering line bars.

- Use "Frequency" to make an adjustment.
- Check and reconfigure the display mode of the vertical refresh rate of your graphic card to make it compatible with the LCD display.

Problem: Image is unstable and flickering

- Use "Tracking" to make an adjustment.

Problem: Image is scrolling

- Check and make sure the VGA signal cable (or adapter) is well connected.
- Check and reconfigure the display mode of the vertical refresh rate of your graphic card to make it compatible with the LCD display.

Problem: Vague image (characters and graphics)

- Use "Frequency" to make an adjustment. If this problem still exists, use "Tracking" to make an adjustment.

Warning Signal

Sometimes you probably will see the warning messages from this LCD screen. This means that the LCD display cannot exactly receive the signal from the computer graphic card.

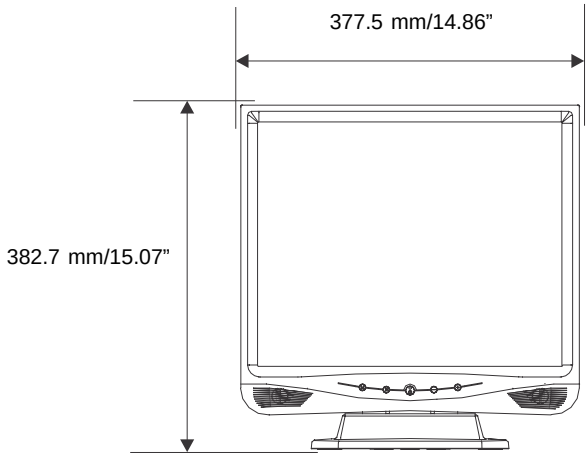
There are three kind of situations that may happen. Please check the connected cables or contact your local dealer for more information.

- **No Signal**
  This message means that the LCD display has been powered on but it cannot receive any signal from the computer graphic card. Check all the power switches, power cables, and VGA signal cable.
- **Going to Sleep**
  This message means that the LCD display is under the power saving mode. In addition, the LCD display will go to this sleeping mode when experiencing a sudden signal disconnecting problem.
- **Out of range**
  This message means that the signal of the computer graphic card is not compatible with the LCD display. When the signal is not included in the compatibility mode we have listed in the Appendices of this manual, the LCD will display this message.

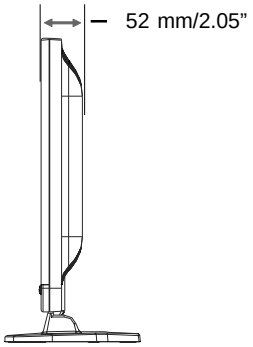
English

Product Dimensions

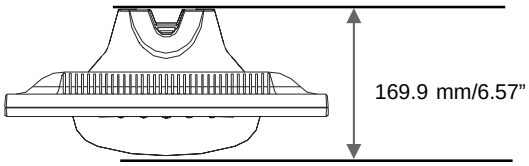
Front View



Side View



Top View



Compatibility Modes

English

Mode	Resolution	V. Frequency (Hz)	H. Frequency (kHz)
VGA	640 x 350	70	31.5
VGA	640 x 400	70	31.5
VGA	640 x 480	60	31.5
VGA	720 x 400	70	31.5
VESA VGA	640 x 480	72	37.9
VESA VGA	640 x 480	75	37.5
VESA SVGA	800 x 600	56	35.2
VESA SVGA	800 x 600	60	37.9
VESA SVGA	800 x 600	72	48.1
VESA SVGA	800 x 600	75	46.9
VESA XGA	1024 x 768	60	48.4
VESA XGA	1024 x 768	70	56.5
VESA XGA	1280 x 1024	60	64
VESA SXGA	1280 x 1024	60	64
VESA SXGA	1280 x 1024	75	80
Apple Mac LC	640 x 480	67	34.9
Apple Mac IT	640 x 480	67	35.0
Apple Mac	832 x 624	75	49.7
Apple Mac	1024 x 768	75	60.2

FCC Information

1. Use the attached specified cable with the LCD1711M color monitor so as not to interfere with radio and television reception.
   (1) Please use the supplied power cord or equivalent to ensure FCC compliance
   (2) Please use the supplied AC Adapter.
   (3) Please use the supplied Audio Cable.
   (4) Please use the supplied VGA Cable.
   Use of other cables and adapters may cause interference with radio and television receiption.
2. This equipment has been tested and found to comply with thie limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installtion. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
   - Reorient or relocate the receiving antenna.
   - Increase the separation between the equipment and receiver.
   - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   - Consult your dealer or an experienced radio/TV technician for help.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

DECLARATION OF CONFORMITY

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cuase harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

U.S. Responsible Party:	NEC-Mitsubishi Electronics Display of America, Inc.
Address:	1250 North Arlington Heights Road, Suite 500 Itasca, Illinois 60143-1248
Tel. No.:	(630) 467-3000
Type of Product:	Display Monitor
Equipment Classification:	Class B peripheral
Model:	LCD1711M

FC *we hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules.*

As an ENERGY STAR® partner, NEC-Mitsubishi Electronics Display of America has determined that this product meets the Energy Star guidelenes for energy efficiency. The ENERGY STAR emblem does not represent EPA endorsement of any product or service.

TCO’99

LCD1711M

Congratulations! You have just purchased a TCO’99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during the manufacturing. Since it has not been possible for the majority of electronics equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.
There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (Internal) and natural (external) environments. Since all methods of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.), it is vital to conserve energy. Electronics equipment in offices consume an enormous amount of energy since they are often left running continuously.

What does labelling involve?

This product meets the requirements for the TCO’99 scheme which provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).
The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.
The environmental demands concern restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan which must be adhered to in each country where the company implements its operational policy. The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.
Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Environmental Requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride and these are related to another group of environmental toxins, PCBs, which are suspected to give rise to severe health effects, including reproductive damage in fisheating birds and mammals, due to the bioaccumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.
TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound chlorine and bromine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.
TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

Cadmium**

Cadmium is present in rechargeable batteries and in the colourgenerating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.
TCO'99 requirement states that batteries, the colourgenerating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches, Mercury damages the nervous system and is toxic in high doses.
TCO'99 requirement states that batteries may not contain any Mercury. It also demands that no mercury is present in any of the electrical or electronics components associated with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma).
The relevant TCO'99 requirement; Neither CFCs nor HCFCs may be used during the manufacturing and assembly of the product or its packaging.

* Bio-accumulative is defined as substances which accumulate within living organisms.
** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

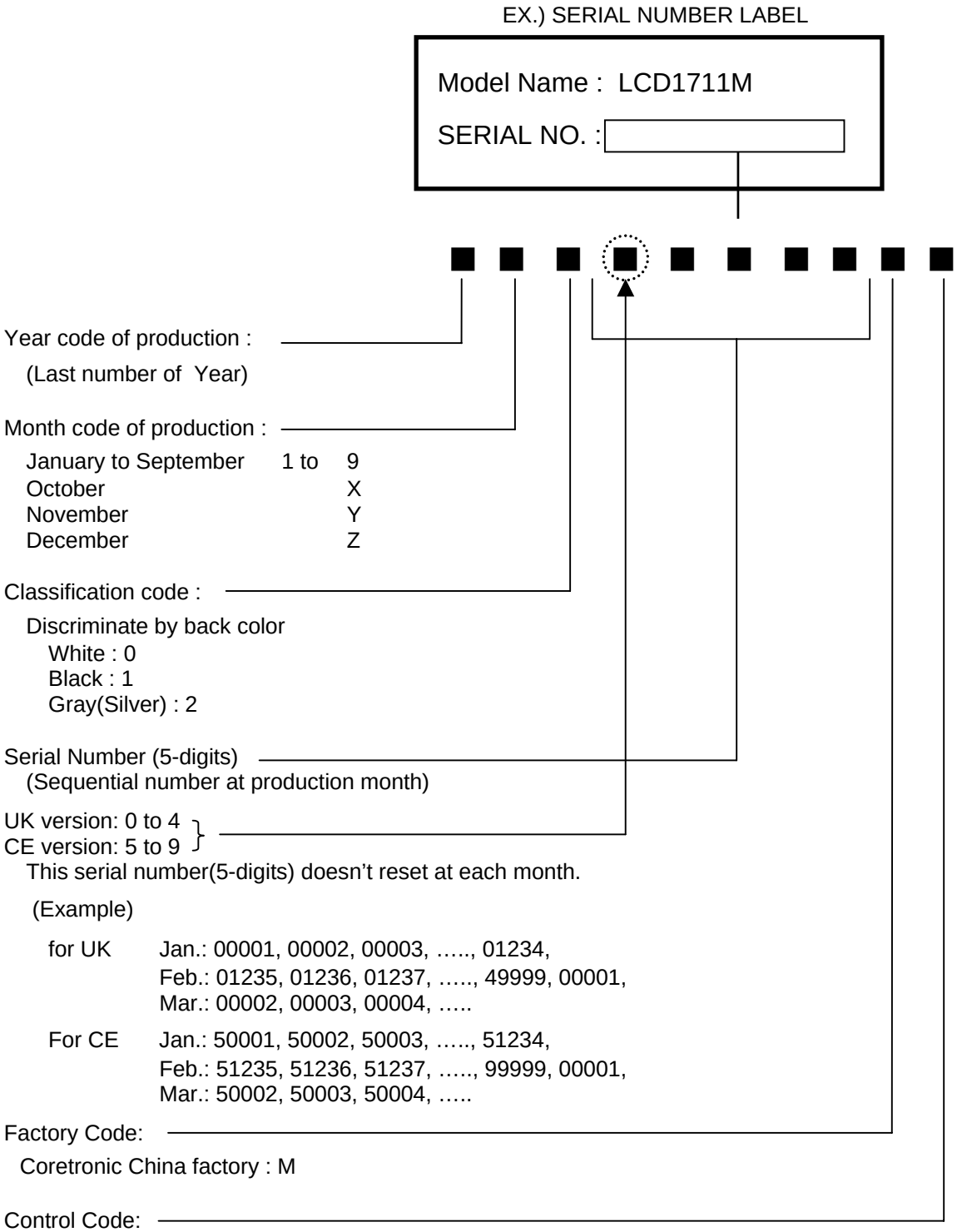
To obtain complete information on the environmental criteria document, order from:

TCO Development Unit
SE-114 94 Stockholm
SWEDEN
FAX Number: +46 8 782 92 07
E-mail (Internet): development@tco.se

You may also obtain current information on TCO'99 approved and labelled products by visiting their website at: http://www.tcodevelopment.com

Serial Number Information

Refer to the serial number information shown below.



Year code of production :

(Last number of Year)

Month code of production :

January to September	1 to	9
October		X
November		Y
December		Z

Classification code :

Discriminate by back color

White : 0
Black : 1
Gray(Silver) : 2

Serial Number (5-digits)

(Sequential number at production month)

UK version: 0 to 4
CE version: 5 to 9

This serial number(5-digits) doesn't reset at each month.

(Example)

for UK Jan.: 00001, 00002, 00003, ….., 01234,
Feb.: 01235, 01236, 01237, ….., 49999, 00001,
Mar.: 00002, 00003, 00004, …..

For CE Jan.: 50001, 50002, 50003, ….., 51234,
Feb.: 51235, 51236, 51237, ….., 99999, 00001,
Mar.: 50002, 50003, 50004, …..

Factory Code:

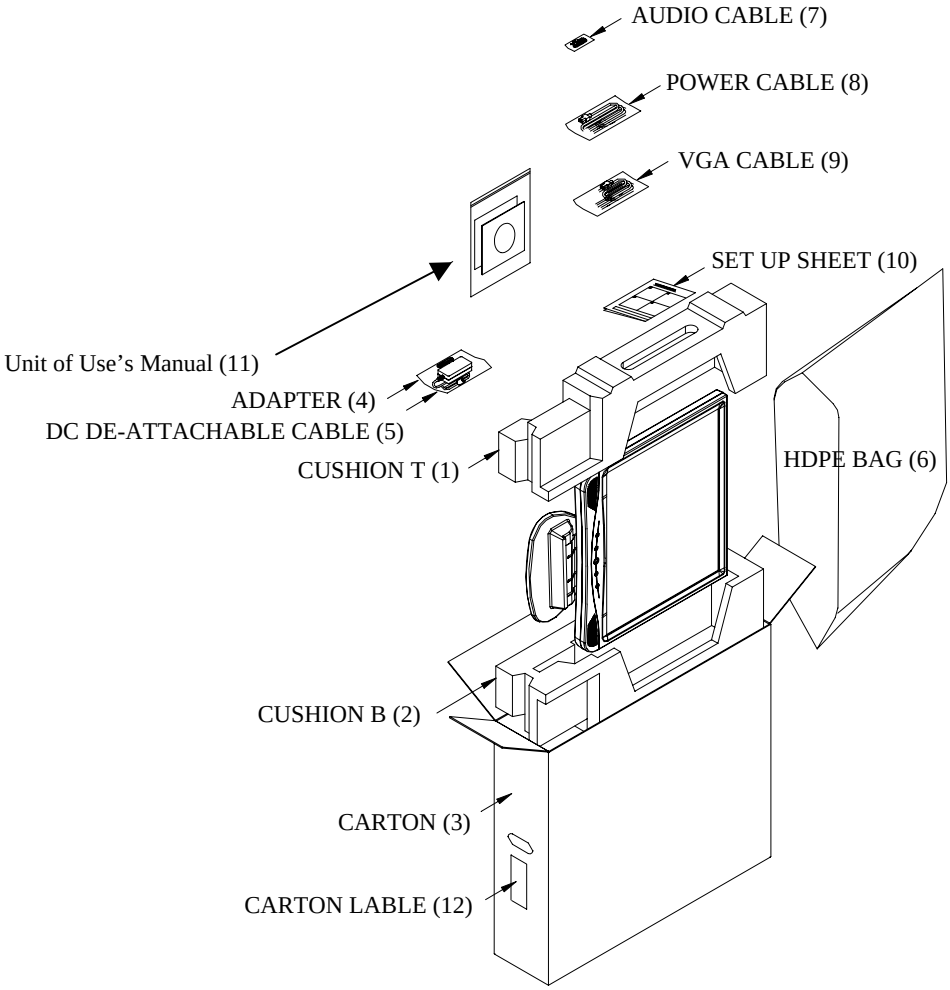
Coretronic China factory : M

Control Code:

A: A ver. (for U.S.A.), B: B ver. (for Europe, Asia and Pacific), C: C ver. (China)

Mechanical Construction

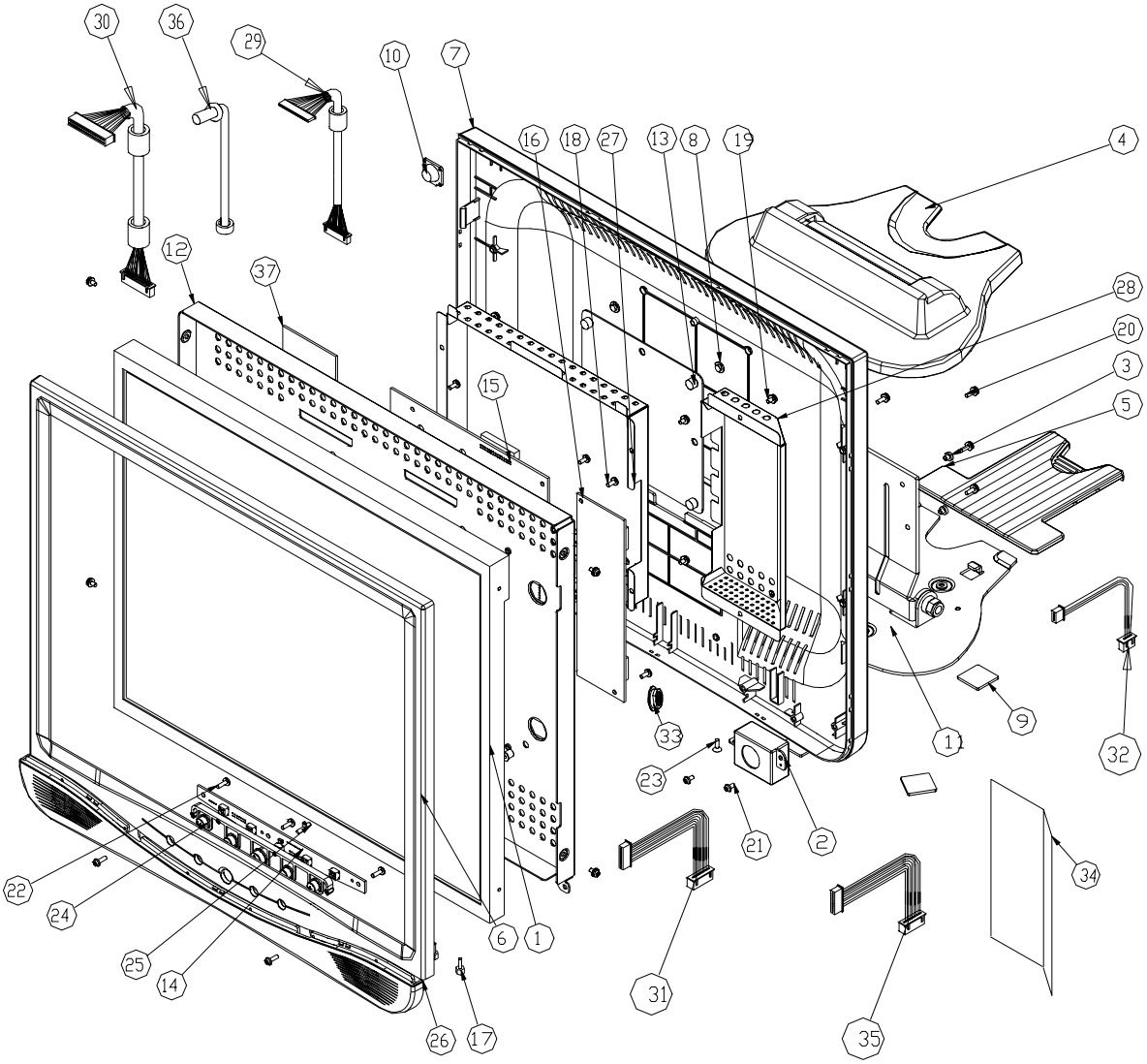
1. Package overview



1.1 Replacement Part List

Item	P/N	Description
1	56.59304.001	CUSHION T EPS PV872A
2	56.59303.001	CUSHION B EPS PV872A
3	55.59305.001	CARTON AB-18 528*123*455 LCD1711M
4	47.59301.001	ADAPTER IN:100-240V OUT:12V/3.33A;FOR NMV;"
5	42.56707.002	CABLE DC DE-ATTACHABLE CABLE BLACK 4PIN MOL
6	51.59307.001	PE BAG HDPE 745*530*0.04t PV872 "NMV"
7	42.59903.002	CABLE AUDIO 1.8M FOR PC99+MARK
8	42.53506.001	CABLE POWER-CORD AC SP60+AS14 1.8M BLACK PV (UK ver Only)
8	42.50112.001	CABLE POWER CORD 1830mm SP-023+IS14 EUR. (CE ver Only)
9	42.59901.003	CABLE VGA 15P 1800mm 2 CORE VX Series
10	36.59306.001	SET UP SHEET LCD1711M
11	36.59307.002	USER'S MANUAL LCD1711M(CD-ROM),UK(W/WARRANT (UK ver Only)
11	36.59307.003	USER'S MANUAL LCD1711M(CD-ROM),EUROPE,W/SAL (CE ver Only)
12	35.59102.001	SHIPPING LABEL LCD1511M

2. Exploded Overview



2.1 Replacement Part List

Item	P/N	Description
1	48.59301.001	TFT LCD 17.0" 1280*1024 SAMSUNG LTM 170 EU
2	49.59901.004	ASSY SPEAKER PV872CS
3	51.59902.002	TRANSITOR WASHER GL-SW06501 PBT+G61B
4	51.59111.003	BASE PC+ABS-CP02 PV758A
5	51.59112.003	DRAW PLATE PC+ABS-CP02 PV758A
6	75.59301.011	ASSY FRONT COVER PC+ABS VS07A LCD1711M
7	51.59302.005	REAR COVER PC+ABS-CP02 LCD1711M
8	52.00004.001	RUBBER PAD
9	52.56101.001	RUBBER FOOT PG-GF-20A-R1B 20*20*1.5t
10	61.00042.001	LOCK BRKT+CAP SECC 0.8t
11	61.59111.004	ASSY HINGE TILT PV872A
12	61.59301.006	SUPPORT BRACKET FOR SAMSUNG PANEL/PV870 SEC
13	61.59304.001	VESA BRKT SECC PV872A
14	80.59302.001	PCBA CTRL BD PV872A
15	80.59306.001	PCBA MB PV872ASG "GM5020"
16	44.59303.001	PCBA INVERTER PLCD2417414E-REV1 FOR NMV
17	85.005AG.075	SCREW HEX I/O #4-40*H5*L7.5 Ni NYLOK
18	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni
19	85.AA123.030	SCREW PAN TAPPING M3*3 Ni
20	85.1F323.120	SCREW PAN MECH W/SF M3*12 BLACK TFT450
21	85.UA123.060	SCREW PAN TAP M3*6 Ni
22	85.UA123.080	DOUBLE THREADS SCREW PAN TAP M3*8 Ni
23	85.YA123.080	SCREW FLAT TAP M3*8 Ni
24	51.56504.001	SELECT KNOB PC+ABS\VS07 PV920
25	51.56505.001	LED LENS PMMA PV920
26	51.59303.002	SPEAKER COVER PC+ABS-CP02 PV872A
27	61.59302.002	BRKT FOR PCB/PV870 TIN PV872CS
28	61.59303.002	BRKT FOR INVERTER/PV870 TIN PV872CS
29	42.56901.002	W.A. 30P UL20276 #28 180mm PV872CS (PANEL)
30	42.59303.001	W.A. 8/14P UL1571 #28 260mm PV872CS(MB TO C

31	42.56902.003	W.A. 12/6P UL1007 #24 300mm PV872CS(INV)
32	42.59305.001	W.A. 4P UL1571 #28 240mm PV872CS(SPEAKER)
33	52.59301.001	RUBBER DECORATION PV872A
34	51.59305.001	INSULATION MYLAR FOR PV872
35	42.59306.001	W.A. 8P UL1571 #28 100mm PV872CS,Audio
36	42.59304.001	W.A. 3P AUDIO 260mm PV872CS
37	80.59305.001	PCBA AUDIO BD W/O EARPHONE PV872CS

DISASSEMBLY

This section provides disassembly procedures for 17" Flat Panel Monitor with SXGA resolution (1280x1024) TFT LCD. Before you begin any of these procedures, be sure to turn off the power, computer system, and other attached devices; then disconnect the power cable from the electronically outlet. Moreover, when you disassemble the monitor, be sure to put the screws in a safe place and separate them according to grouping.

1 Disassembly of Stand Unit from Monitor

1. Make **LCD1711M** face down as figure 1, and put your hands to lift the stand up as figure 2.
2. Unscrew the four screws of Stand unit.*(Figure 3)*

Figure 1

Figure 2

Figure 3

4. Remove the Stand Unit *(Figure 4)* carefully.

Figure 4

2 Disassembly of Hinge Tilt and Base

1. Unscrew the two screws of Hinge Tilt *(Figure 5)*.
2. Open the join to separate Base and Hinge Tilt *(Figure 6)*.

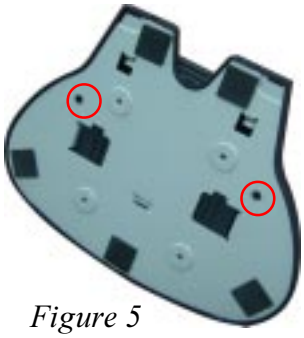


Figure 5

Figure 6

3. Draw Plate, Hinge Tilt and Base are as figure 7, 8, 9.

Figure 7

Figure 8

Figure 9

3 Disassembly of Front Cover, Rear Cover, Control and Audio Boards

1. Press the Speaker Cover and pull the latches out between Speaker and Rear Cover. *(Figure 10)*
2. Unscrw the two screws. *(Figure 10)*
3. Pull the latches out between Front Cover and Rear Cover to lift up the Front Cover. *(Figure 11)*.

Figure 10

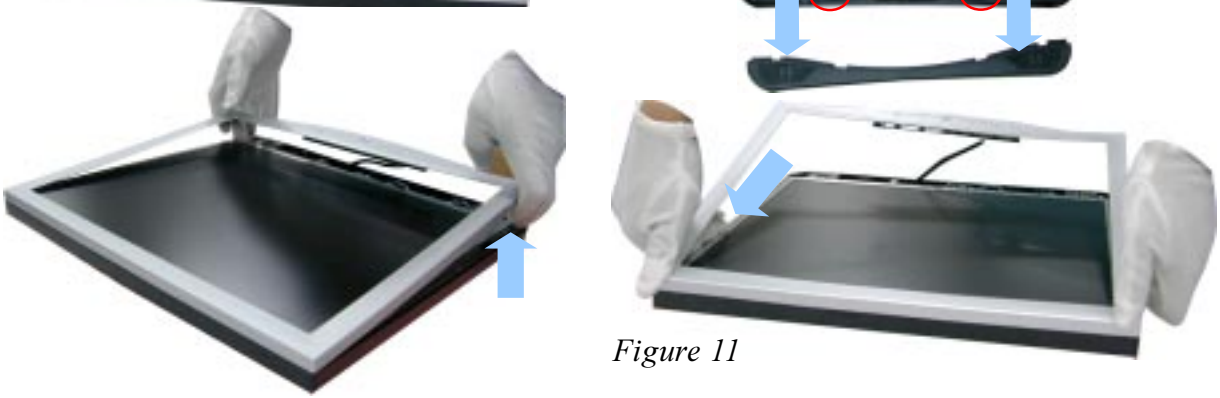


Figure 11

4. Unplug Control wire *(Figure 12)*, and then unscrew the three screws to remove Control Board and Front Cover.*(Figure 13)*
5. Unscrew the two screws and tear off the tape. *(Figure 12)*

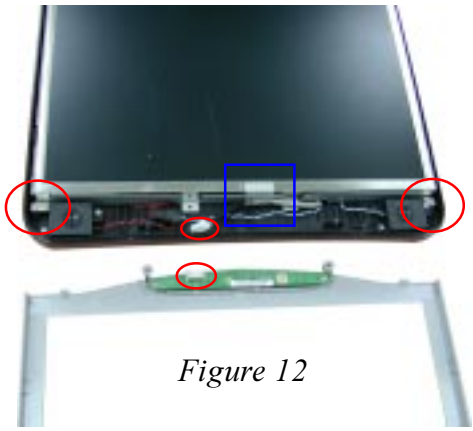


Figure 12

Figure 13

4 Disassembly of LCD Panel, Speakers

1. Use phillip screw driver to detach the LCD panel and Rear cover *(Figure 15)*. Unplug speaker wires, audio wire and Connector wire and then unscrew the two screws and unplug another speaker wire to tear off Audio board. *(Figure 16)* Unscrew the four screw to take off speaker.*(Figure 16)*

Figure 15

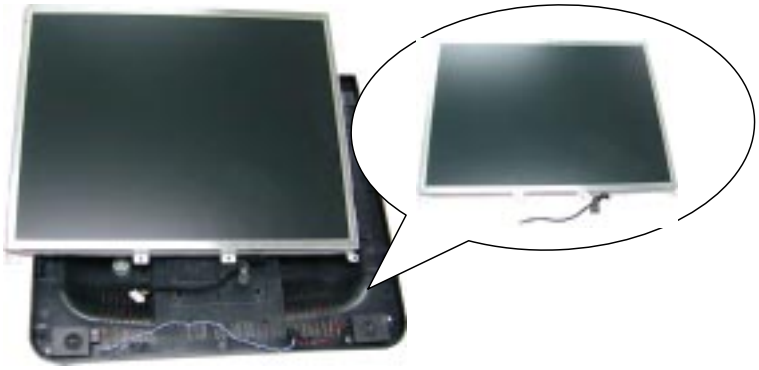
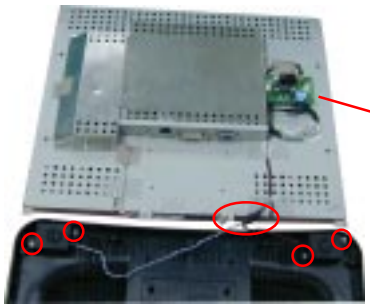
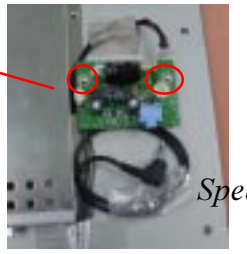


Figure 16





Speakers wire

Speakers

2. Tear off the tape first and unscrew the two screws of Inverter Bracket Mylar to remove it *(Figure 17)* and then unplug panel wires and unscrew the two screws, unplug connector to remove the Inverter Board.*(Figure 18)*

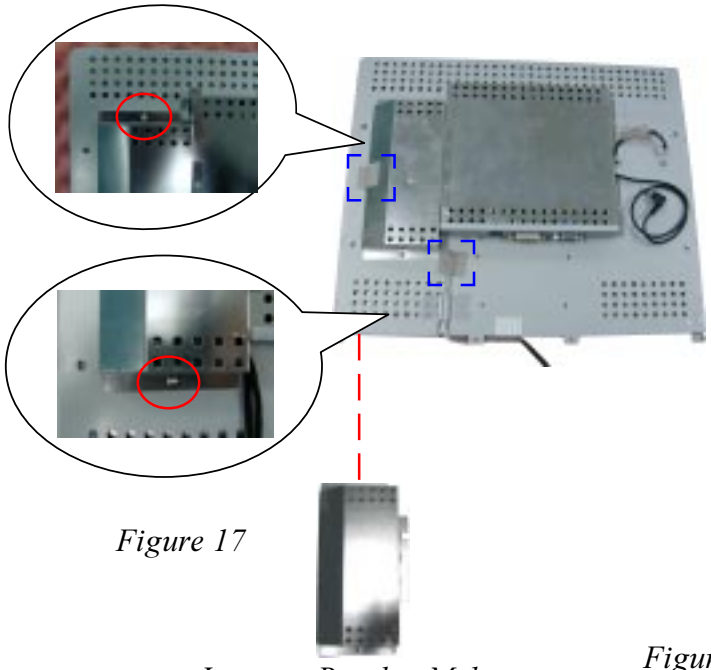
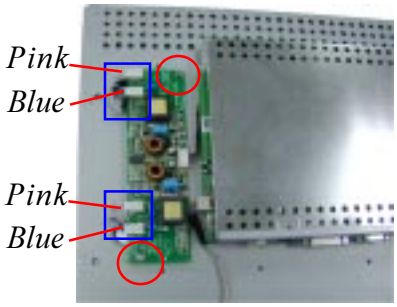


Figure 17

Inverter Bracket Mylar



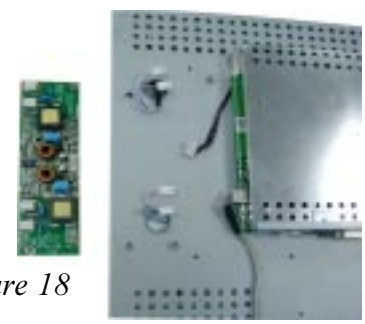


Figure 18

5 Disassembly of Main Board and all wires

1. Unscrew the two screws to remove the Bracket *(Figure 19)*, unplug all connectors unscrew the four hex screws of Main Board and the four screws to remove the Main Board.*(Figure 20)*

2. Unscrew the four screws and remove Support Bracket.*(Figure 20)*

Figure 19

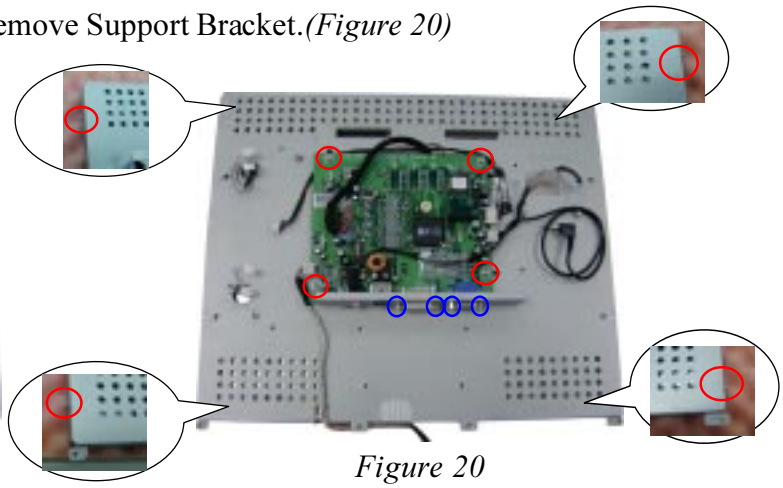


Figure 20

3. Tear off the tape and unplug the interface cable *(Figure 21)* tear off the tape to take off cables. *(Figure 22)*.Unplug all wires from Support Bracket. *(Figure 23)*

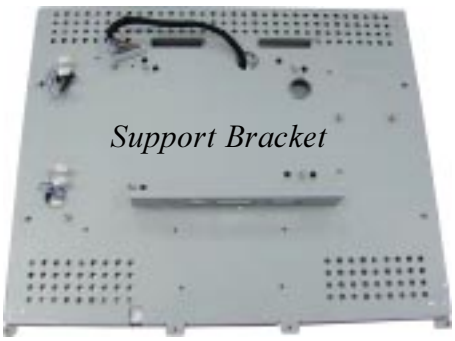


Figure 22

Figure 21

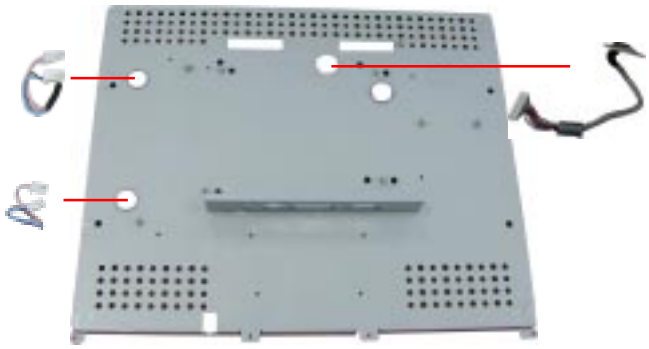


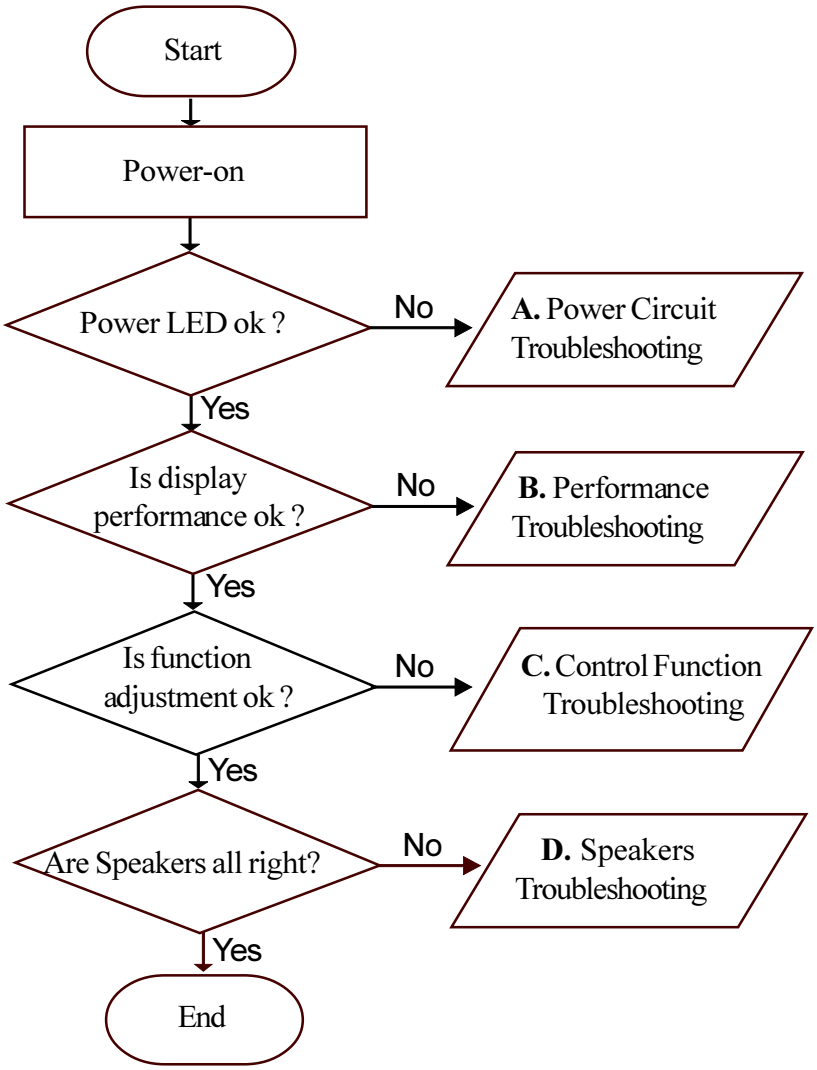
Figure 23

TROUBLESHOOTING

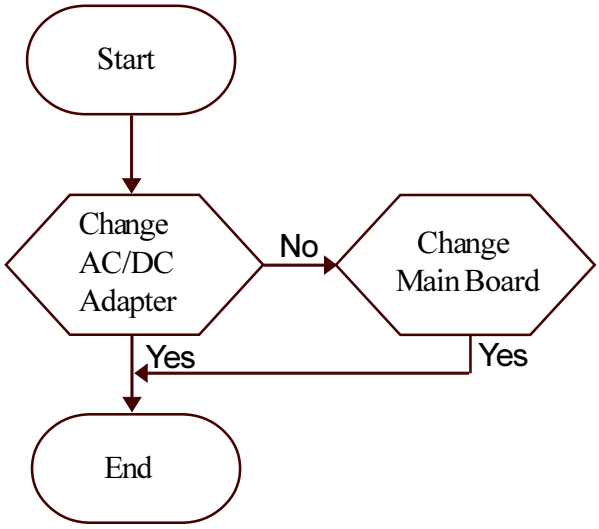
1 Equipment Needed

- **LCD1711M Monitor**
- Philips Screw Driver #101 and #107, Hex Screw Driver
- PC*(Personal Computer)* with SXGA resolution and Sound Card

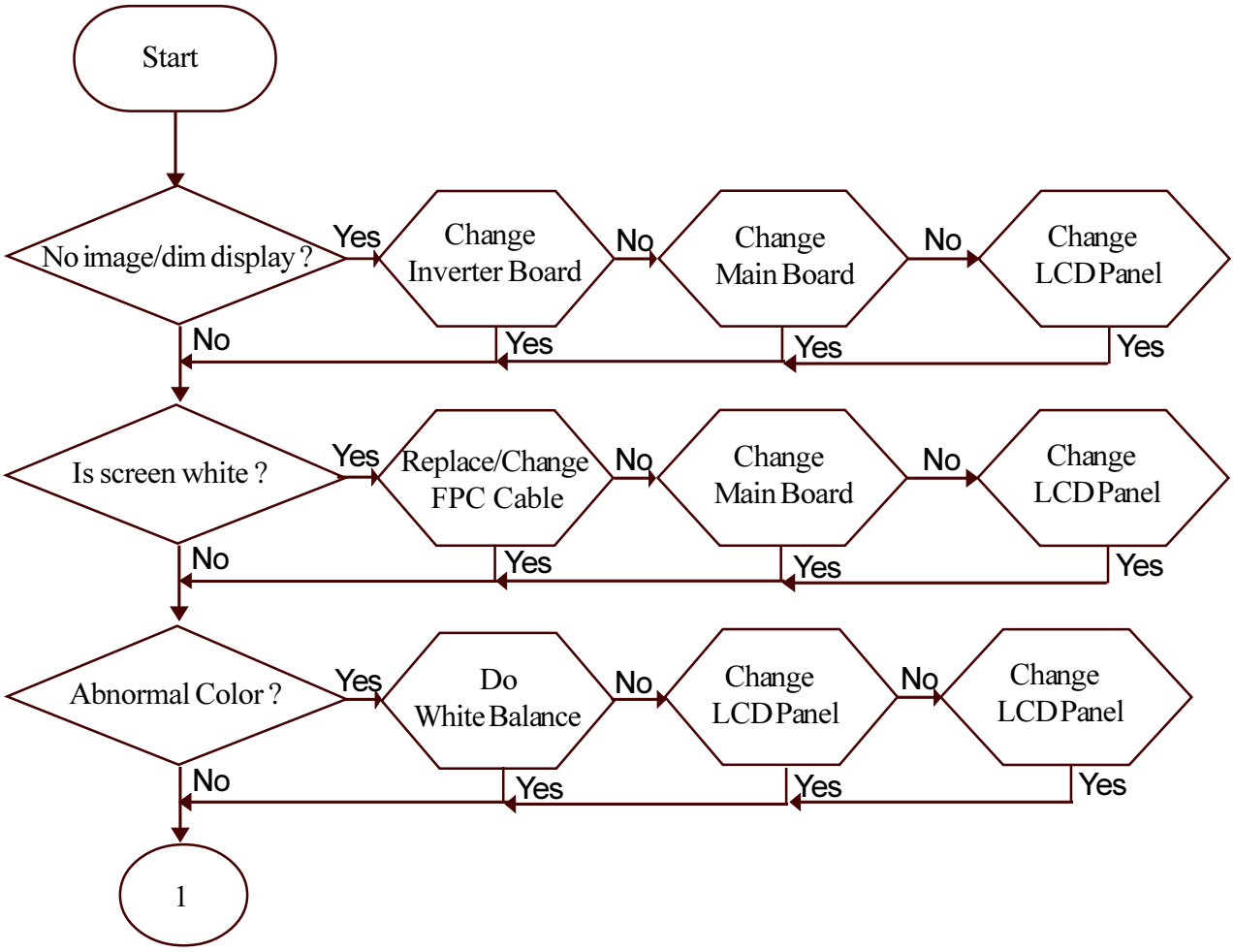
2 Main Procedure

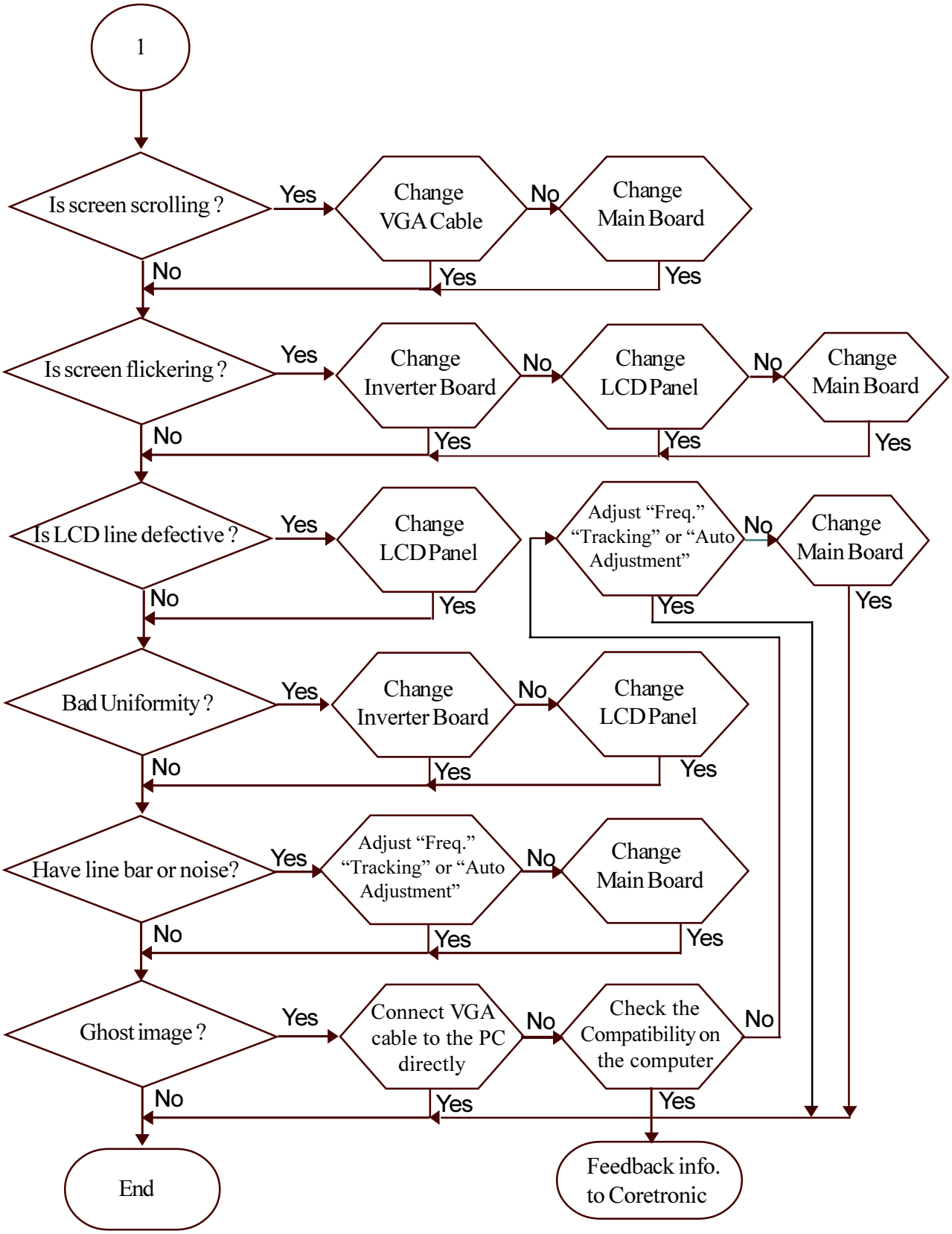


2.1 A. Power Circuit Troubleshooting

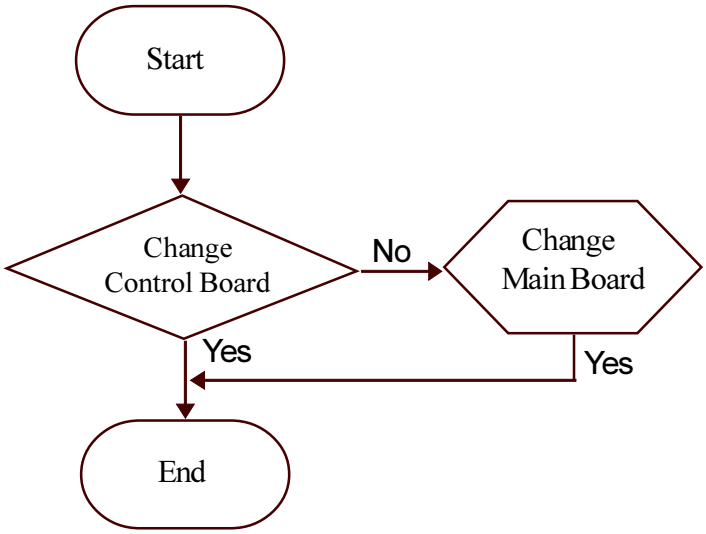


2.2 B. Performance Troubleshooting

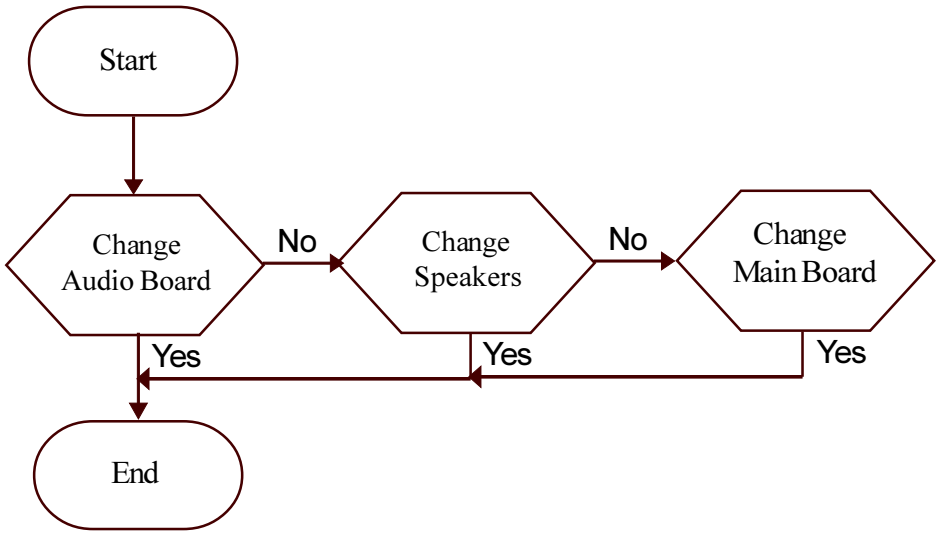



1
Is screen scrolling ?
Yes
Change VGA Cable
No
Change Main Board
Yes
Yes
No
Is screen flickering ?
Yes
Change Inverter Board
No
Change LCD Panel
No
Change Main Board
Yes
Yes
Yes
No
Is LCD line defective ?
Yes
Change LCD Panel
Yes
No
Adjust “Freq.” “Tracking” or “Auto Adjustment”
No
Change Main Board
Yes
Yes
No
Bad Uniformity ?
Yes
Change Inverter Board
No
Change LCD Panel
Yes
Yes
No
Have line bar or noise?
Yes
Adjust “Freq.” “Tracking” or “Auto Adjustment”
No
Change Main Board
Yes
Yes
No
Ghost image ?
Yes
Connect VGA cable to the PC directly
No
Check the Compatibility on the computer
No
Yes
Yes
No
End
Feedback info. to Coretronic

2.3 C. Contorl Function Troubleshooting



2.4 D. Speakers Troubleshooting



Function Test & Alignment Procedure

1 Product

- ❑ 17” LCD Monitor

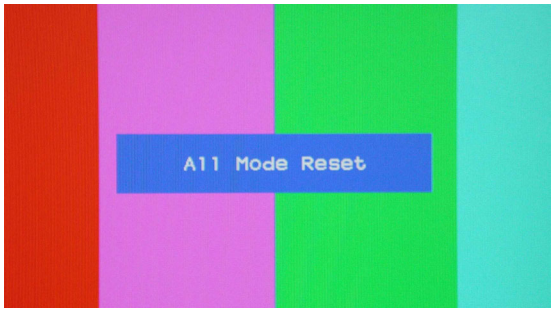
2 Test Equipment:

- ❑ Color Video Signal & Pattern (or PC with **SXGA** resolution)
- ❑ PC with Sound Card

3 Hot Key:

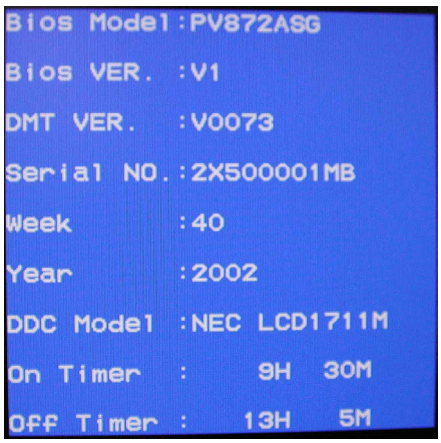
- ❑ White Balance:
  Set pure black and white pattern, no other color.
  OSD is displayed and cursor is moved to Display Mode.
  Press "Menu" and "-" simultaneously for 5 seconds.

- ❑ All Mode Reset:
  Press “+”, “-” buttons simultaneously and “Power on” *with signal*, hold on for 3 seconds. Then the screen will show “All Mode Reset”.



❑ Burn In Mode:

Press “+”, “-” buttons simultaneously and “Power on” *without signal*, hold on for 3 seconds. Then the screen will show “Burn In Mode”. Press any button besides “Power” button, you can find the information about this monitor.



4 Test Condition:

Before function test and alignment, each LCD Monitor should be run-in and warmed-up for at least 2 hours with the following conditions:

a). In room temperature,
b). With full-white screen, R.G.B. Black
c). With cycled display modes,

640*480 (H=37.5kHz, V=75Hz) 800*600 (H=46.9kHz, V=75Hz)
1024*768 (H=60.0kHz, V=75Hz) 1280*1024 (H=80kHz, V=75Hz)

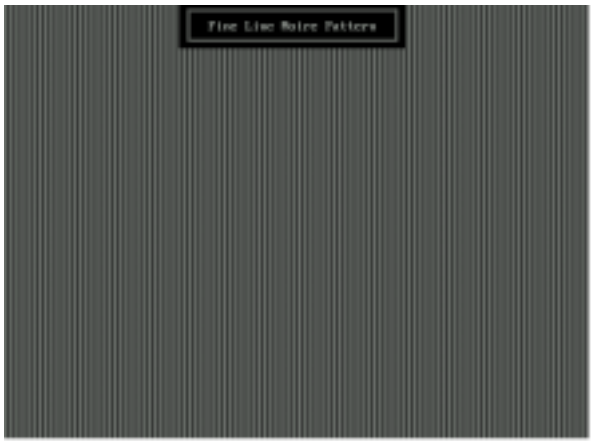
5 Test Display Modes & Pattern

5.1 Compatible Modes

Standard	Resolution	Vertical Refresh(Hz)	Horizontal Scan(kHz)
IBM VGA	640*350	70	31.5
IBM VGA	640*400	70	31.5
IBM VGA	720*400	70	31.5
IBM VGA	640*480	60	31.5
VESA VGA	640x480	72	37.9
VESA VGA	640x480	75	37.5
VESA SVGA	800x600	56	35.2
VESA SVGA	800x600	60	37.9
VESA SVGA	800x600	72	48.1
VESA SVGA	800x600	75	46.9
VESA XGA	1024x768	60	48.4
VESA XGA	1024x768	70	56.5
VESA XGA	1024x768	75	60.0
VESA SXGA	1280x1024	60	64.0
VESA SXGA	1280x1024	75	80.0
Apple Mac LC	640x480	67	34.9
Apple Mac II	640x480	67	35.0

5.2 Function Test Display Pattern

Item	Test Content	Pattern	Specification	Remark
1	Frequency & Tracking	Fine Line Moire	Eliminate visual wavy noise.	Figure 1
2	Contrast/Brightness	16 Gray Scale	16 gray levels should be distinguishable.	Figure 2
3	Boundary	Horizontal & Vertical Thickness	Horz. and Vert. position of video shuld be adjustable to be within the screen frame.	Figure 3
4	R,G,B, Color Performance	R.G.B Color Intensities	Contrast of each R,G,B, color should be normal.	Figure 4,5,6
5	Screen Uniformity & Flicker	Full White	Should be compliant with the spec.	Fgure 7
6	Dead Pixel/Line	White Screen Dark Screen	The numbers of dead pixels should be compliant with the spec.	Figure 8
7	White Balance	White & Black Pattern	The screen must have the pure white and black pattern, no other color.	Figure 9



Fine Line Morie Pattern (Figure 1)

Gray Scale Pattern (Figure 2)

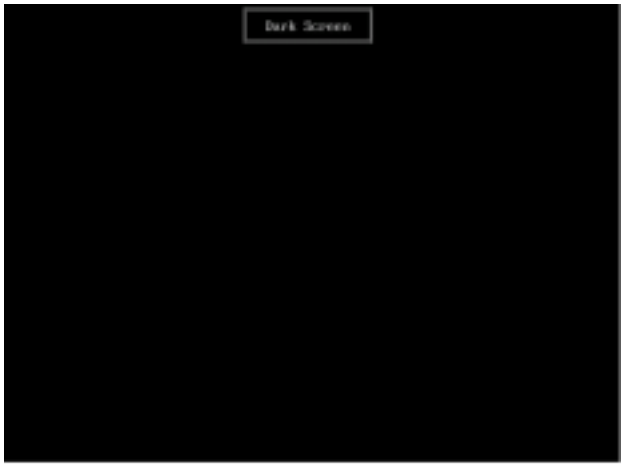
Horizontal & Vertical Thickness Pattern (Figure 3)

R. Color Pattern (Figure 4)

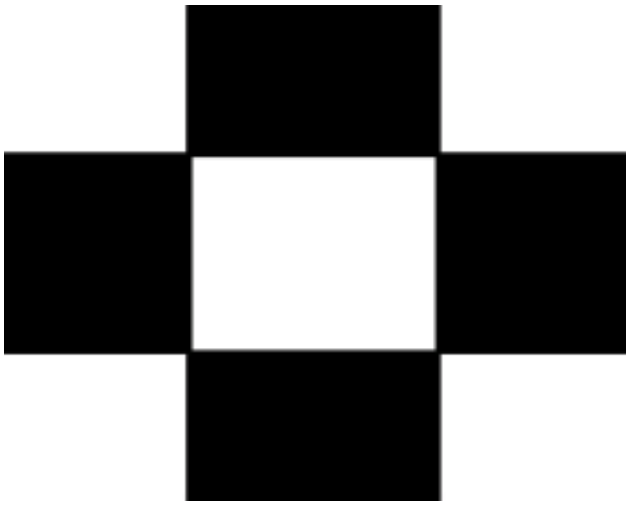
G. Color Pattern (Figure 5)

B. Color Pattern (Figure 6)

Full White Pattern (Figure 7)



Dark Screen Pattern (Figure 8)



Black-White Pattern (Figure 9)

6 Function Test and Alignment Procedure

6.1 All Modes Reset

You should do "All Mode Reset" *(Refer to Chapter 3)* first.
This action will allow you to erase all end-user's settings and restore the factory defaults.

6.2 Auto Adjustment

Please select and enter *"**Auto Adjustment**"* function on Main Menu or press "Auto" button on the select knob to see if it is workable. The *"**Auto Adjustment**"* function is aimed to offer a better screen quality by built-in ASIC. For optimum screen quality, the user has to adjust each function manually.

6.3 Firmware and DDC

Test Pattern: Burn In Mode *(Refer to Chapter 3)*

- ❖ Make sure the S/N is the same as the Spec. label.
- ❖ Make sure the model name is correct.

6.4 Tracking and Frequency

Test Signal: 1280x1024@75Hz
Test Pattern: Line Moire Pattern

- ❖ Check and see if the image has noise and focus performs well.
  eliminate visual line bar.
- ❖ If not, readjust by the following steps :

  *(a) Select and enter "**Tracking**" function on "**Image Screen**" to adjust the image to eliminate visual wavy noise.*

  *(b) Then, select and enter "**Frequency**" function to adjust the image to eliminate visual line bar.*

6.5 Boundary

Test Signal : 1280x1024@75Hz
Test Pattern : Horizontal & Vertical Line Thickness Pattern

- ❖ Check and see if the image boundary is within the screen frame.
- ❖ If not, readjust by the following steps :

  *(a) Select and enter "**Image screen**" function on OSD Main Menu.*

  *(b) Then, select and enter "**Horizontal Position**" and "**Vertical Position**" function to adjust the video boundary to be full scanned and within screen frame.*

6.6 White Balance

Test Signal : 1280x1024@60Hz

Test Pattern: Full White and Black Pattern

- ❖ Refer to Chapter 3
- ❖ The value of R.G.B. offset should be 75-95.

6.7 R,G,B, Colors Contrast

Test Signal: 1280x1024@75Hz

Test Pattern: R,G,B Color Intensities Pattern and 16 Gray Scale Pattern

- ❖ Check and see if each color is normal and distinguishable.
- ❖ If not, please return the unit to repair area.

6.8 Screen Uniformity and Flicker

Test Signal: 1280x1024@75Hz

Test Pattern: Full White Pattern

- ❖ Check and see if it is in normal condition.

6.9 Dead Pixel and Line

Test Signal: 1280x1024@75Hz

Test Pattern: Dark and White Screen Pattern

- ❖ Check and see if there are dead pixels on LCD panel.
- ❖ The total numbers and distance of dead pixels should be compliant with the spec. (Refer to Chapter 8)

6.10 Audio

Test Signal: Voice signal

Test Pattern: liberty

- ❖ Make sure that Audio function is working without noise.

6.11 Check for Secondary Display Modes

Test Signal: 640*350@70Hz; 640*480@60/72/75Hz;
720*400@70Hz; 800*600@56/60/72/75Hz;
1024*768@60/70/75Hz; 1280x1024@60/75Hz

- ❖ Normally when the primary mode 1280x1024@75Hz is well adjusted and compliant with the specification, the secondary display modes will be great

possibile to be compliant with the spec. But we still have to check with the **general test pattern** to make sure every secondary is compliant with the specification.

6.12 All Modes Reset

After final QC step, we have to erase all saved changes again and restore the factory defaults. You should do "All Mode Reset" *(Refer to Chapter 3)* again.

6.13 Power off monitor

Turn off monitor by pressing "Power" button.

7 Cleaning

Please use non-alcohol cleanser to clean LCD panel and cosmetics material with soft cotton.

8 Inspection Standard

A. Visual Inspection

Defect Type	Count (mm)	Reject (mm)
Dark/Bright Spot (Foreign material, Stain, Dust)	0.1<D<=0.8 N<=4	D>0.8
Bright line (light lint), or Dark line (dark lint/hair)	0.01<W<=0.08 0.3<L<=2.0 N<=4	W>0.08 L>2.0
Polarizer Scratch	0.1<W<=0.1 0.3<L<=5.0 N<=3	W>0.1 L>5.0
Polarizer Dent/bubble	D<=0.8 N<=6	D>0.8
Maximum allowable Number of defects	N<=10	N>10

B. Electrical Inspection

Defect Type	Count (mm)	Reject (mm)
Bright dot (Figure 1) Random Two Adjacent Three Adjacent	 N<=4 (Green<=2) N<=1 N<=0	 N>4 (Green>2) N>1 N>0
Dark dot (Figure 2) Random Two adjacent Three adjacent	 N<=7 N<=2 N<=1	 N>7 N>2 N>1
Maximum Allowable number of dot defect	N<=10	N>10
Minimum distance between defects (Figure 3) Bright dot- to – bright dot Dark dot- to – dark dot	 L=>15mm L=>5mm	 L<15mm L<5mm

(L:Length, N: Count)

Definitions/Notes;

-A brgith dot any red, Green, or blue pixel suck in the 'On" mode.

-A dark dot ant Red, Green, or Blue pixel duck in the "off" mode.

Figure 1: Bright dot defect description (Two Adjacent)

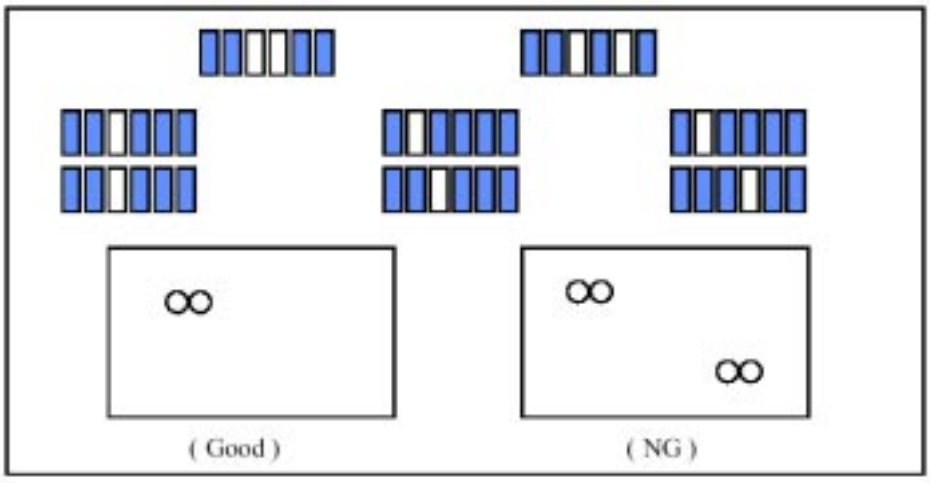


Figure 2: Dark dot defect description (Two Adjacent)

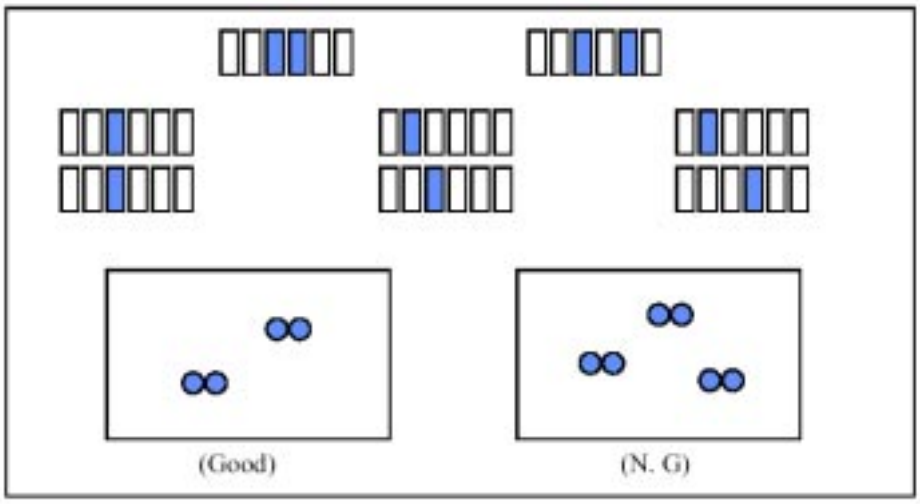


Figure 3: Dark dot defect description (Three Adjacent)

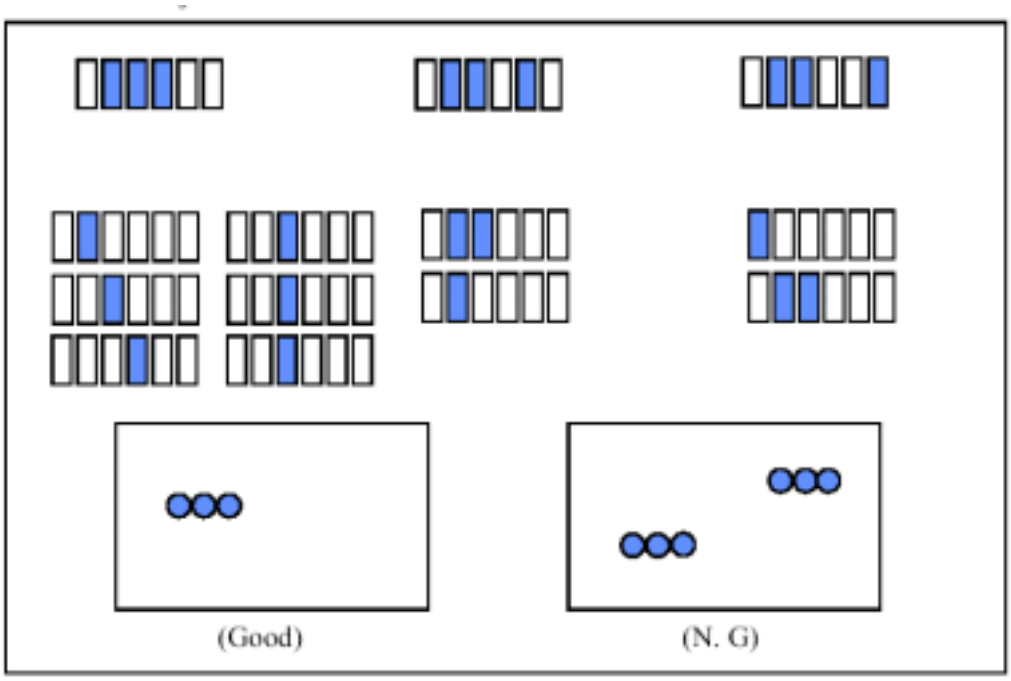


Figure 3: Minimum distance between dot defects

(bright dot- to -bright dot)

(dark dot- to -dark dot)

B. Appearance Inpsection: (Scratches/Abrasions)

(PS: for refurbish or like new)

a.) Mechanical:

Face A: Not Acceptance

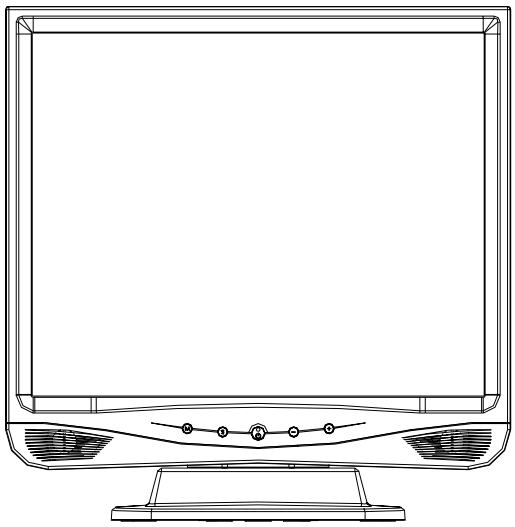


Figure 1: Face A View

Face B: Length:12.7mm, Width: 0.25mm (2 lines,scrapes)

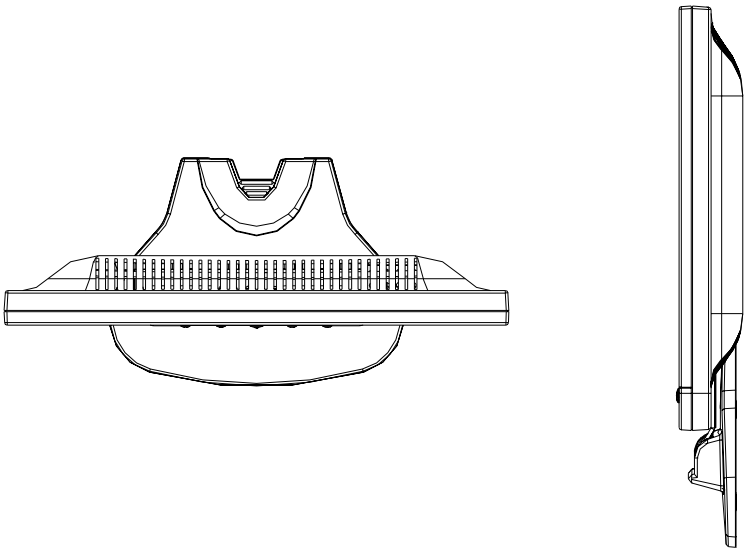


Figure 2: Face B View

Face C: Length:76mm Width:0.76mm (2 lines,scrapes)

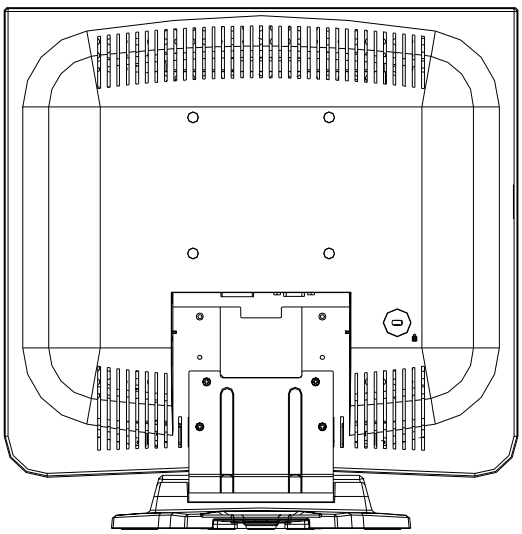


Figure 3: Face C View

Face D: Length:89mm Width:0.76mm (2 lines,scrapes)

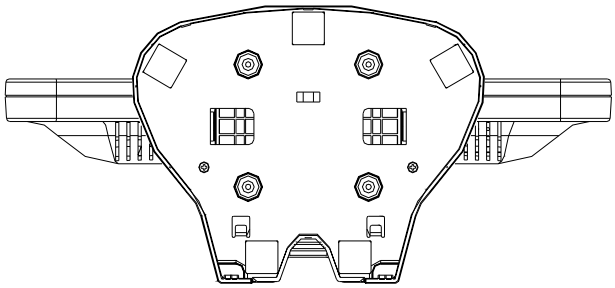
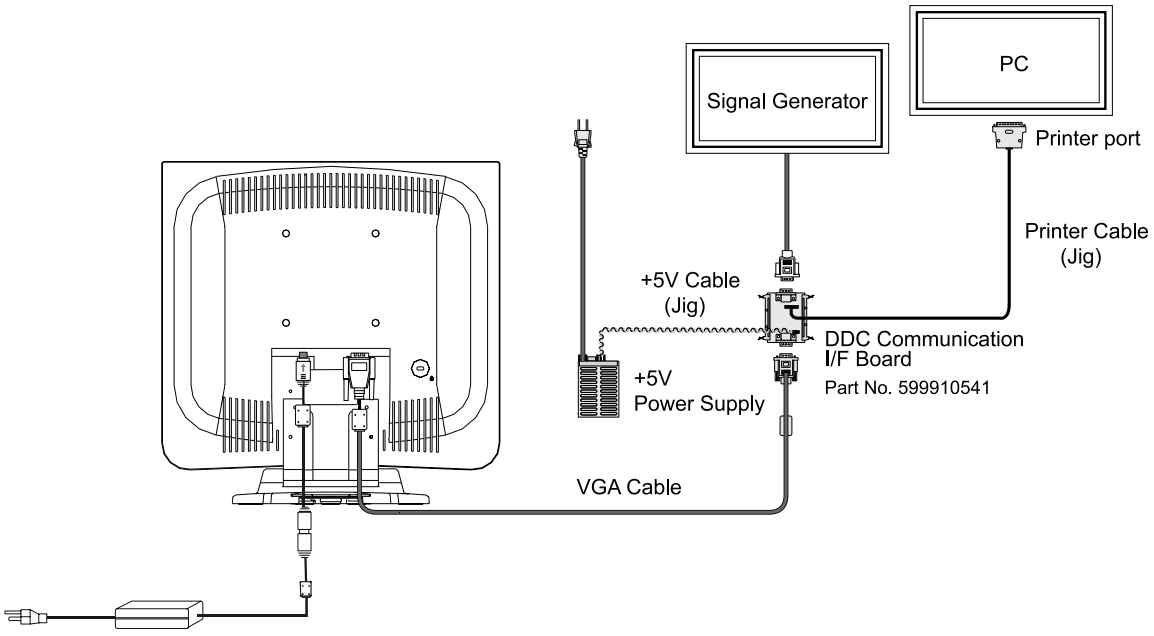


Figure 4: Face D View

DDC Key-in Procedure

1. System connection

This system should be connected as shown below.



DDC Communication I/F BOARD

2. Input signal

Horizontal synchronization frequency : Not specified.

Vertical synchronization frequency : Not specified.

3. Program

Service tool Ver. 3.14 (Parameter ver. 2.0-S5) (Part No. 599910612)

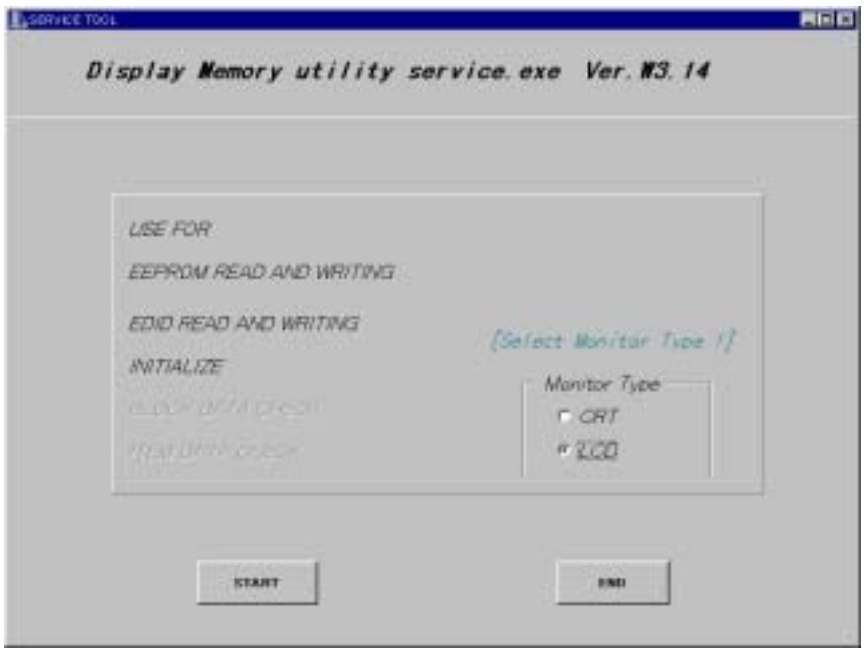
4. Operation

1) Connect the EDID data writing unit with jigs, etc.

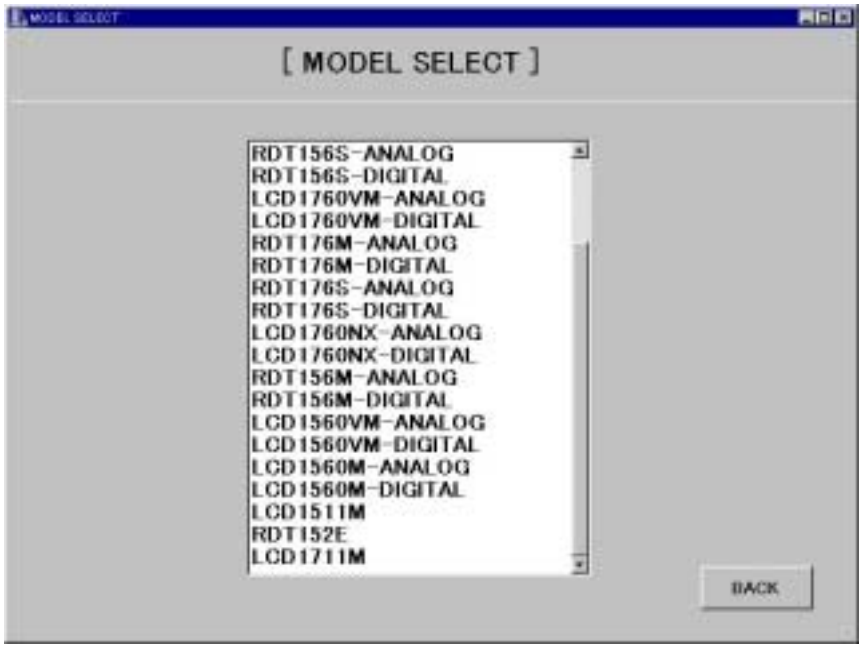
2) Copy all the files of the service tool Ver. 3.14 (Parameter ver. 2.0-S5) in a proper directory.

3) Start [Service2.EXE] of the service tool Ver. 3.14.

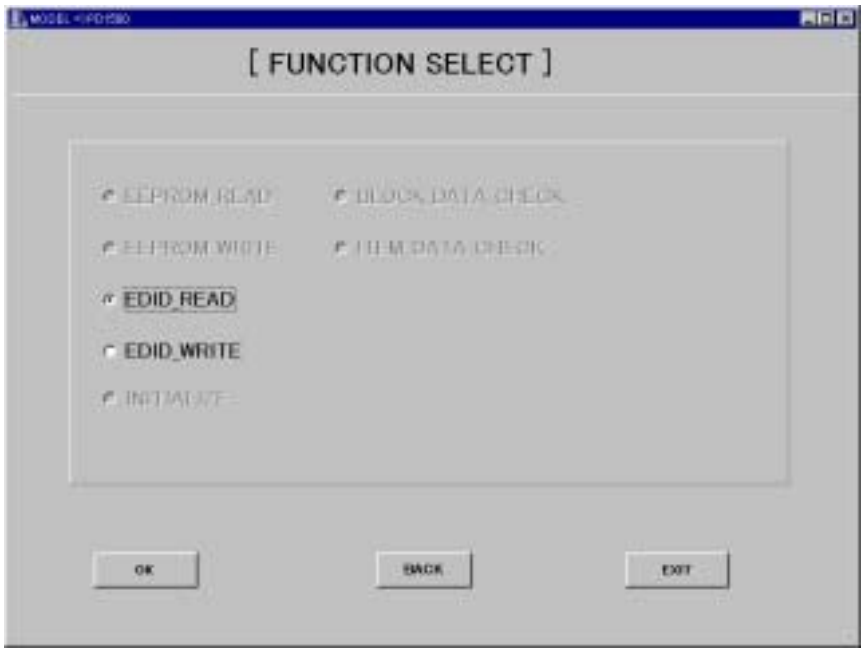
4) When the screen as shown below appears, give a check to [LCD] of [Monitor Type] and press the [START] button.



5) When the screen as shown below appears, adjust the cursor to [LCD1711M] and make a double click.

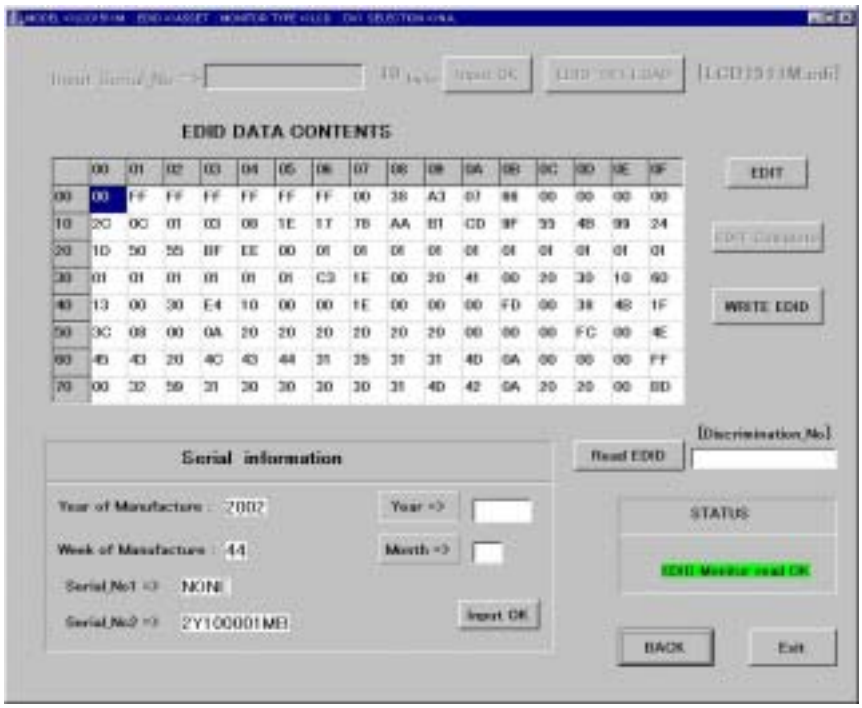


6) When the screen as shown below appears, give a check to [EDID_READ] and press the [OK] button.



7) When the screen as shown below appears, confirm that the correct data are displayed in the columns of EDID DATA CONTENTS and Serial information.

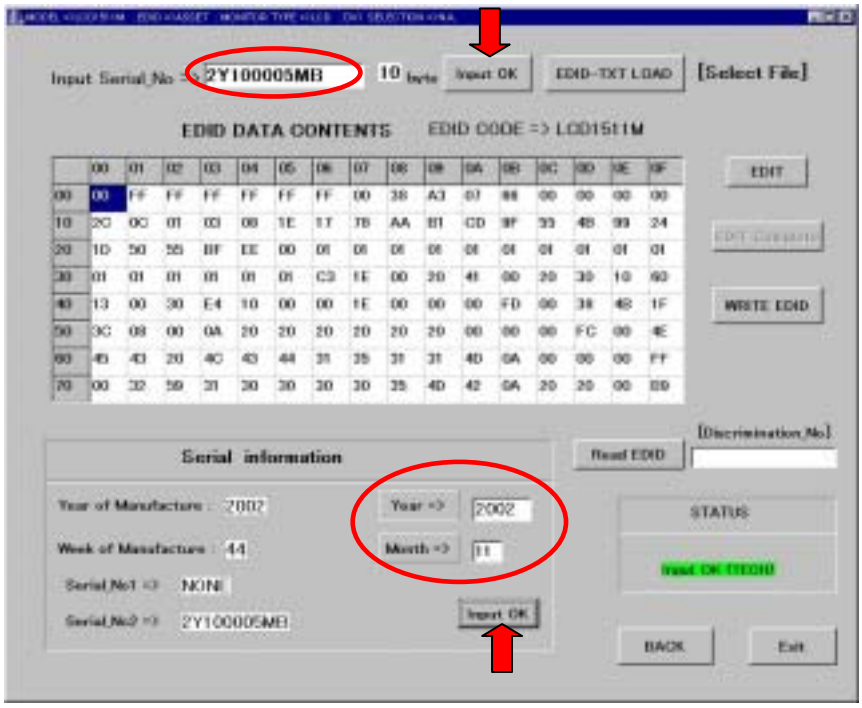
If all the displayed data are [FF] or the like, or if the serial number is different from that of the corresponding unit, then EDID data writing should be carried out.



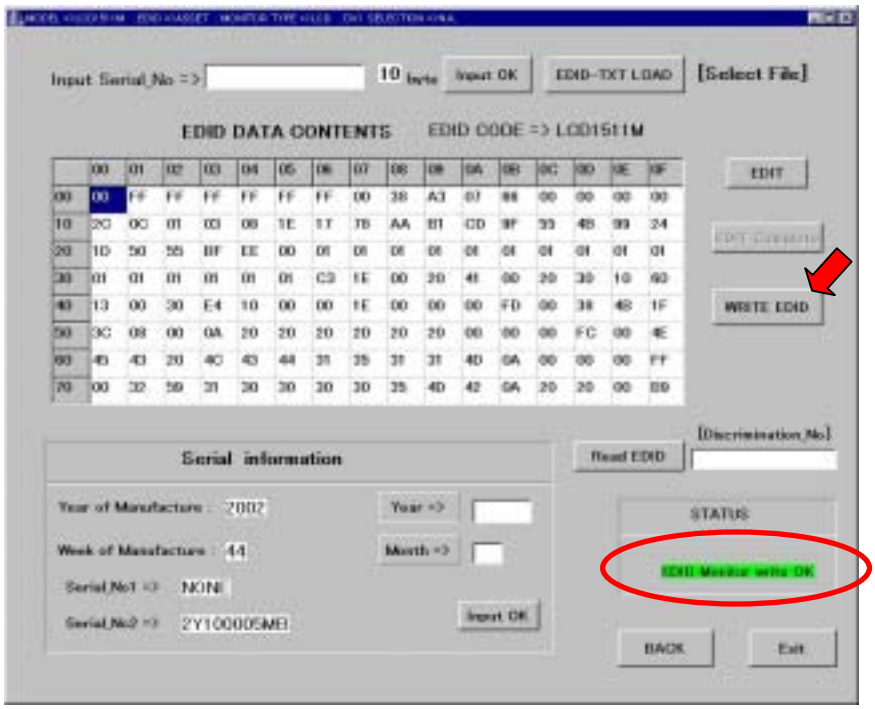
8) When a screen of Item 6 is displayed by pressing the [BACK] button, give a check to [EDID_WRITE] and press the [OK] button.

9) When the screen as shown below appears, examine the serial number of the unit, enter an input in the column of [Input Serial No.] through the keyboard, and press the [Input OK] button.

Enter an input in the column of [.Year=>] in manufactured year(A.D. four digits) and [Month=>] in manufactured month through the keyboard, and press the [Input OK] button.



10) When the [WRITE EDID] button is pressed, writing of the EDID data only is carried out. Upon the completion of correct writing, a display of [EDID Monitor Write OK] is presented in the column of [STATUS].



11) Upon the normal completion of EDID data writing, press the [Exit] button to close the program.

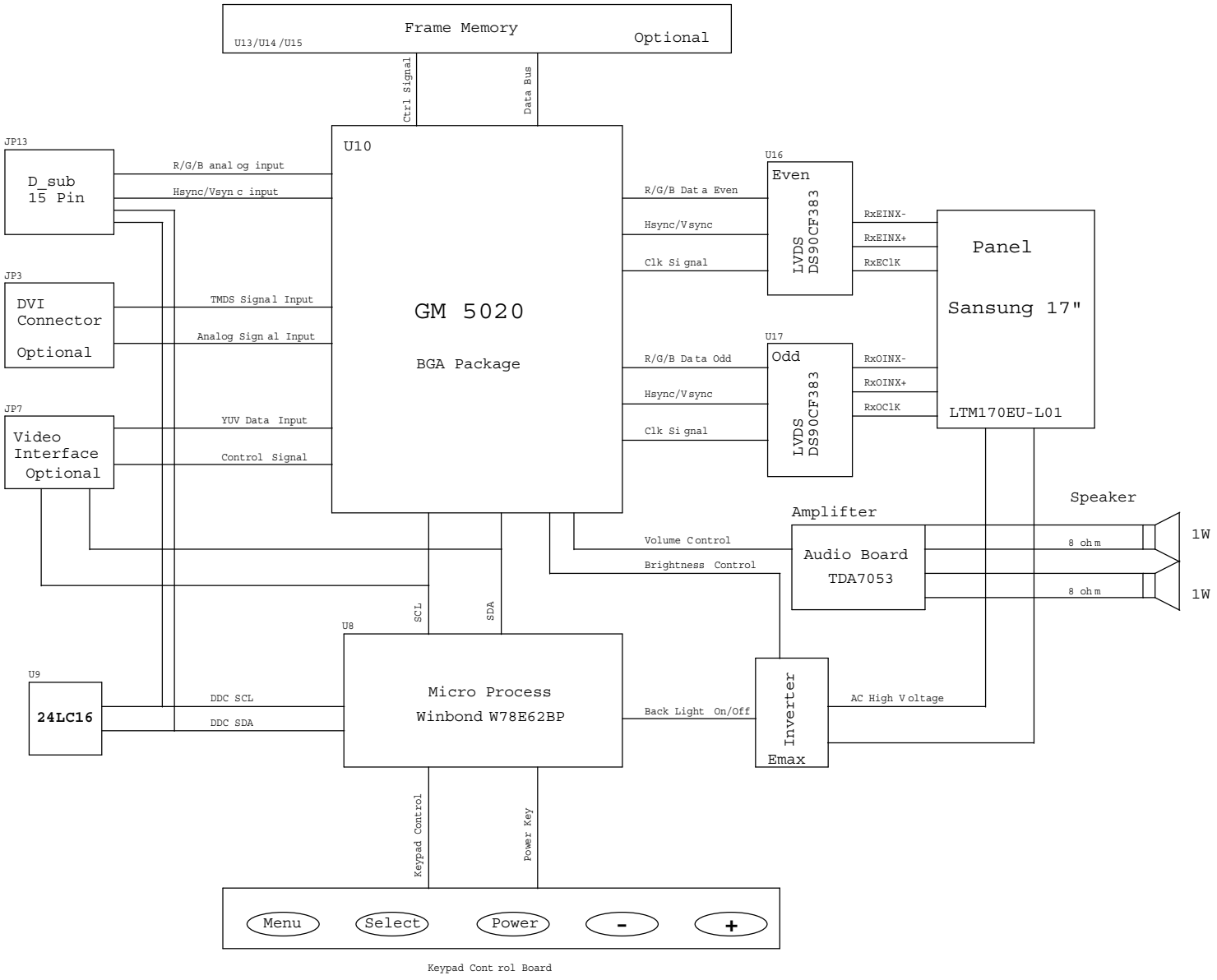
5. EDID data file

EDID date: LCD1711M.edi

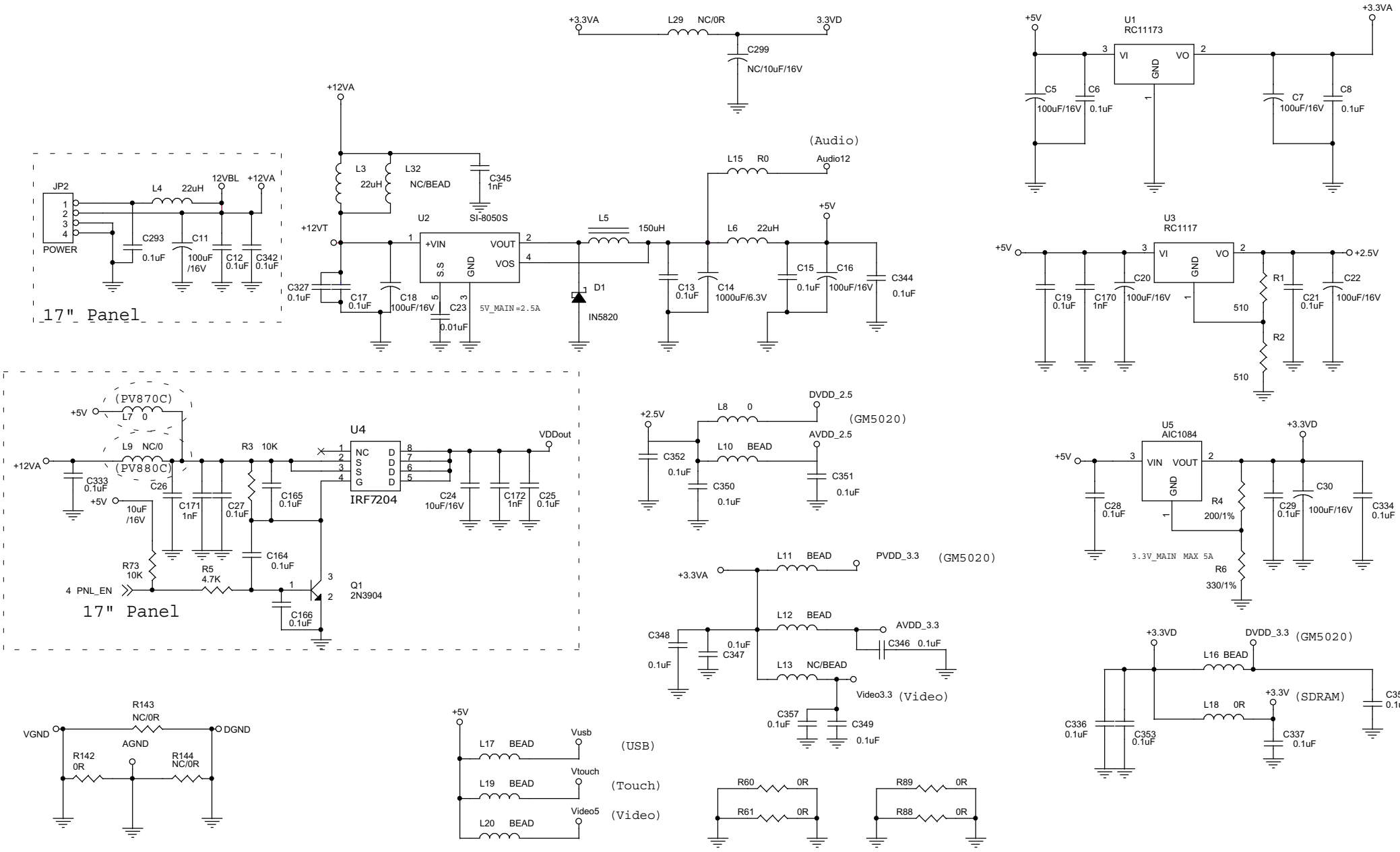
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	38	A3	06	66	00	00	00	00
10	28	0C	01	03	08	22	1B	78	AA	36	A1	A2	59	4C	97	24
20	17	51	56	BF	EF	80	81	80	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	30	2A	00	98	51	00	2A	40	30	70
40	13	00	52	0F	11	00	00	1E	00	00	00	FD	00	38	4B	1F
50	52	0E	00	0A	20	20	20	20	20	20	00	00	00	FC	00	4E
60	45	43	20	4C	43	44	31	37	31	31	4D	0A	00	00	00	FF
70	00	32	58	31	30	30	30	30	31	4D	42	0A	20	20	00	29

Note 1: address 10h	Week of manufacture = Month of manufacture × 4
Note 2: address 11h	Year of manufacture - 1990
Note 3: address 71h ~ 7Dh	Serial Number (ASCII coded)
	If less than 13 char, terminate with 0Ah and fill the rests with 20h.
Note 4: address 7Fh	Checksum
	The sum of entire 128 byte shall be equal to 00h.

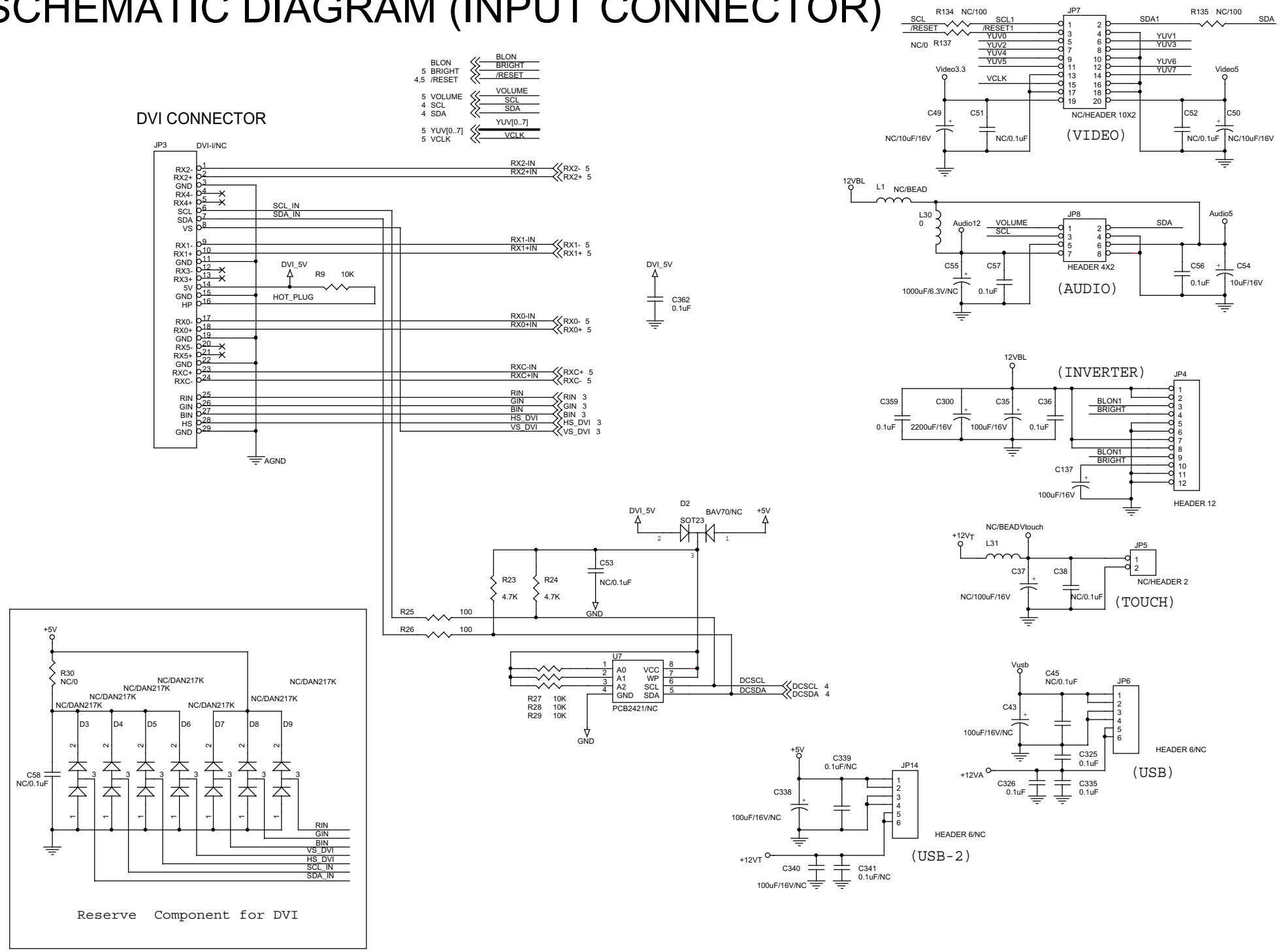
BLOCK DIAGRAM



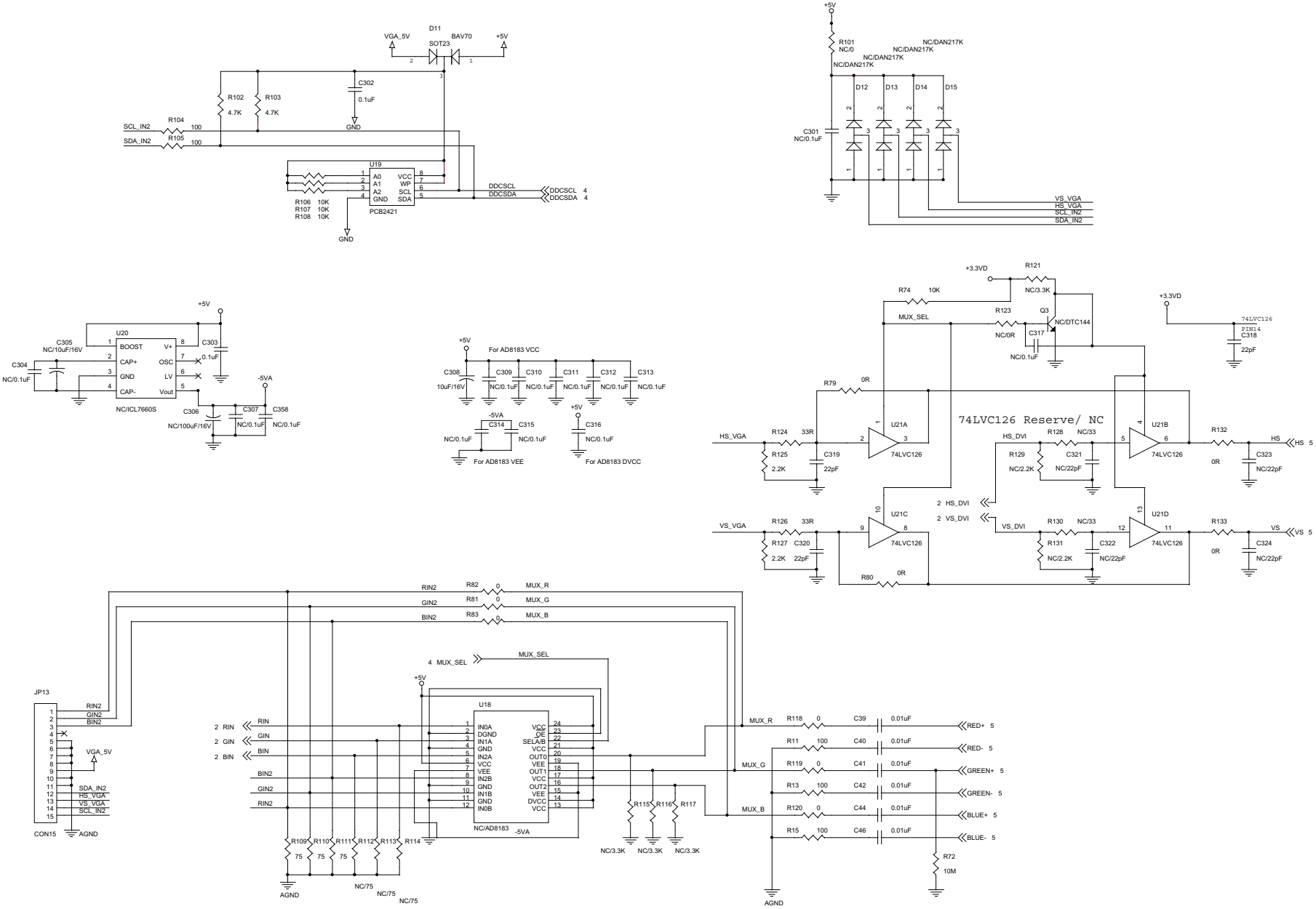
SCHEMATIC DIAGRAM (POWER CIRCUIT)



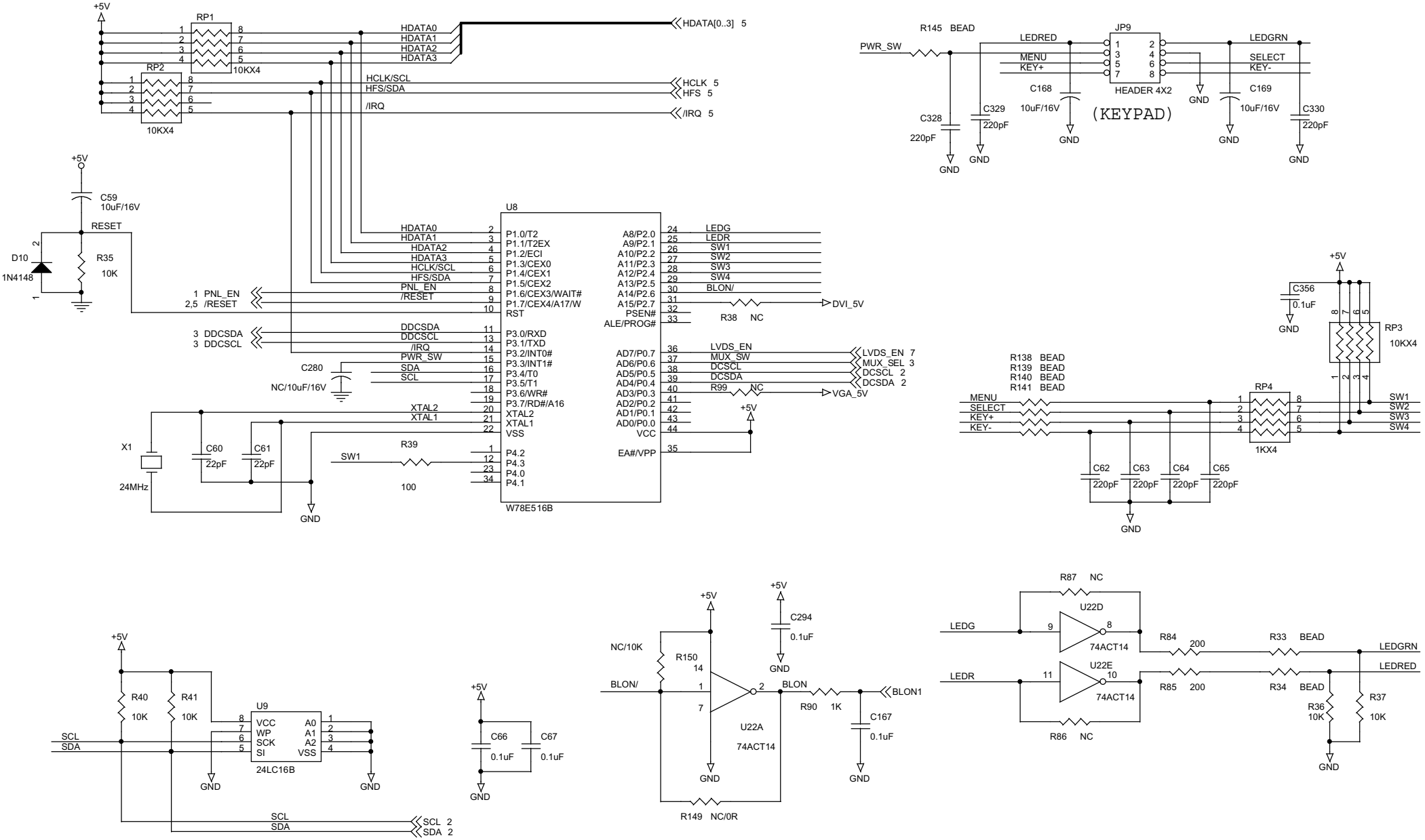
SCHEMATIC DIAGRAM (INPUT CONNECTOR)



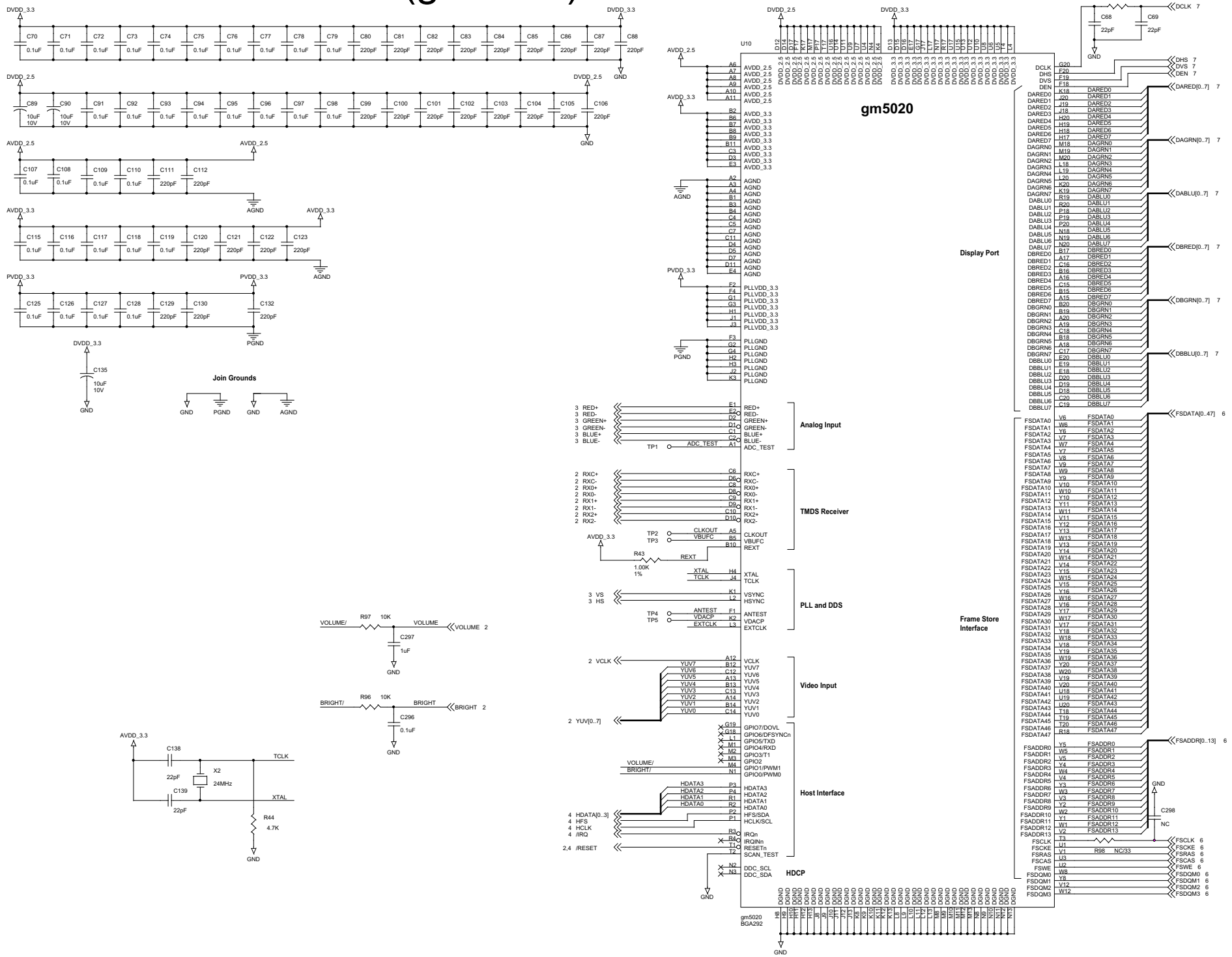
SCHEMATIC DIAGRAM (D-SUB CNNT & MUX)



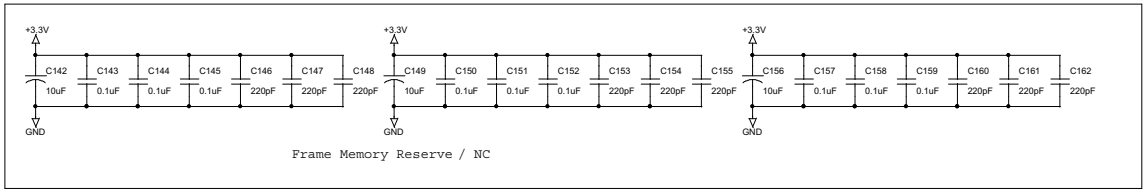
SCHEMATIC DIAGRAM (u-Processor)



SCHEMATIC DIAGRAM (gm5020)

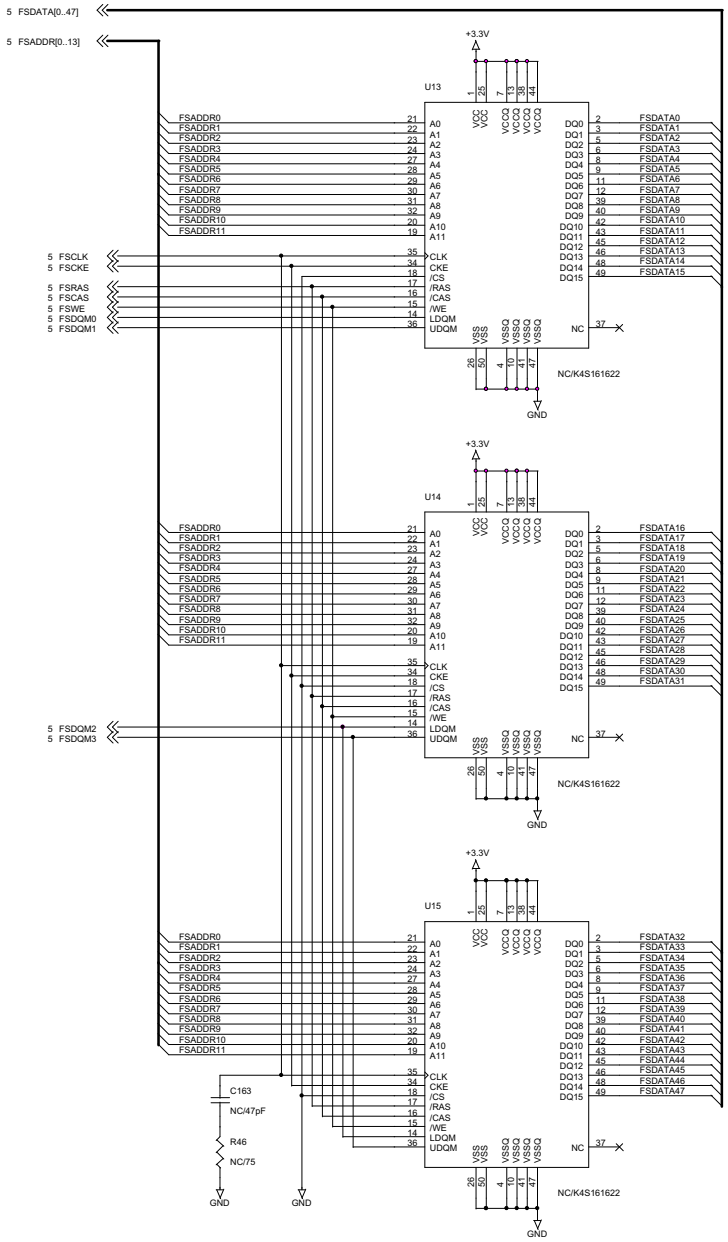


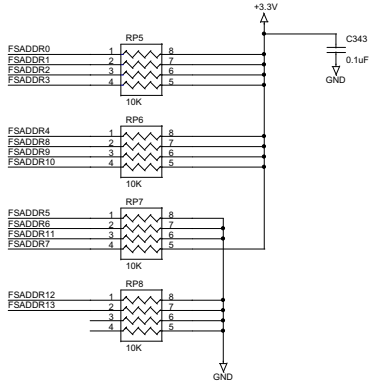
SCHEMATIC DIAGRAM (MEMORY STORE)



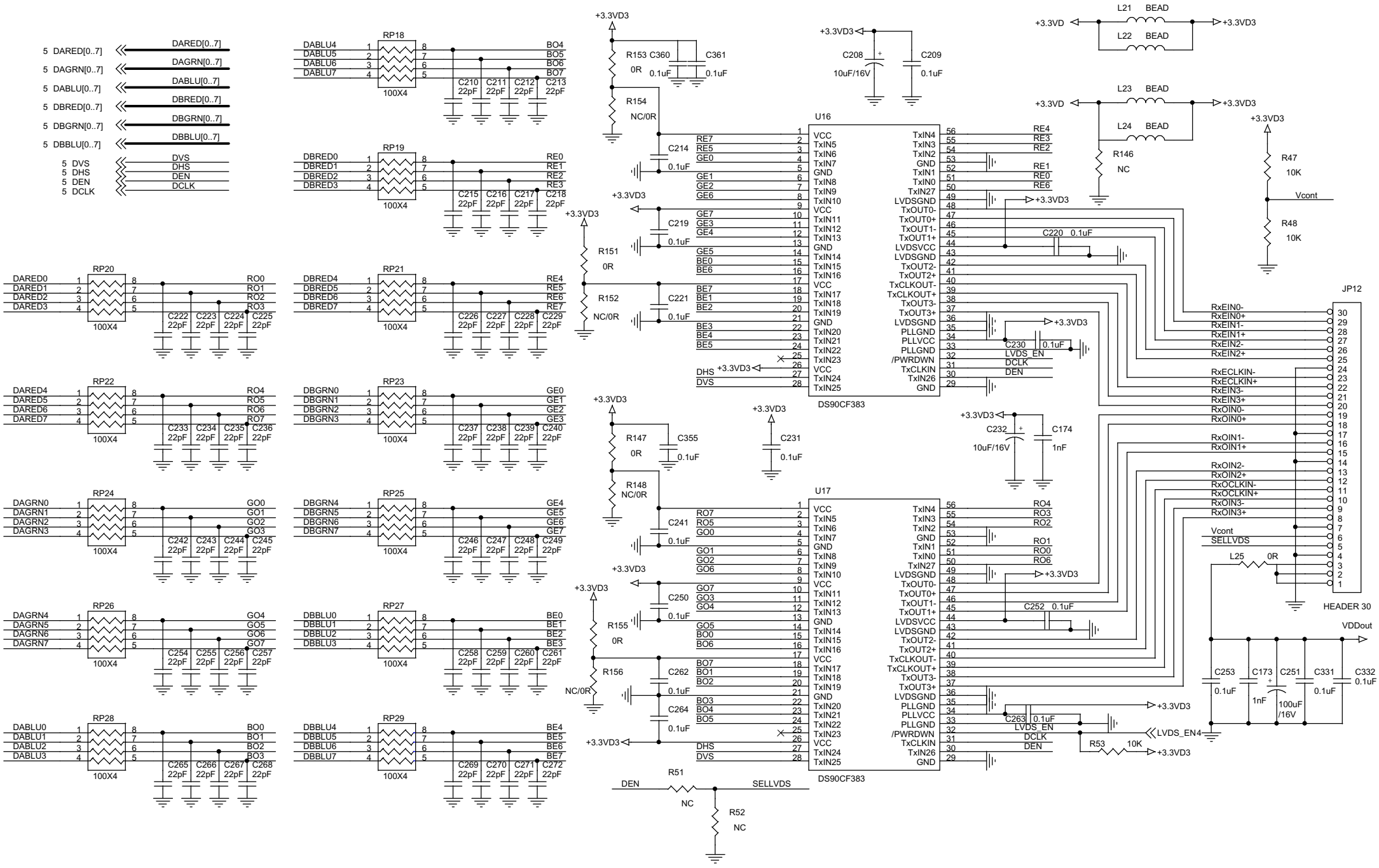
SDRAM SELECTION

15"/17" Panel	Devices
17" Panel	3 @ 1M x 16 SDRAM
15" Panel	No Frame Buffer





SCHEMATIC DIAGRAM (Output Interface)



REPLACEMENT PARTS LIST

The components specified for Model LCD1711M (UK ver)
The components specified for Model LCD1711M (CE ver)

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
	47.59301.001	ADAPTER IN:100-240V OUT:12V/3.33A;FOR NMV;"	
	51.59902.002	TRANSITOR WASHER GL-SW06501 PBT+G61B	
	52.00004.001	RUBBER PAD	
	52.59301.001	RUBBER DECORATION PV872A	
	51.59111.003	BASE PC+ABS-CP02 PV758A	
	51.59112.003	DRAW PLATE PC+ABS-CP02 PV758A	
	52.56101.001	RUBBER FOOT PG-GF-20A-R1B 20*20*1.5t	
	61.59111.004	ASSY HINGE TILT PV872A	
P.B-C.B*2	85.YA123.080	SCREW FLAT TAP M3*8 Ni	
	35.00010.002	LABEL CAUTION HIGH VOLTAGE 25.4*19mm	
	35.59306.001	RATING LABEL LCD1711M	
	35.59307.001	AUDIO IN LABEL LCD1711M	
	39.59307.001	DDC RECORDER LCD1711M "GM5020"	
	41.53614.001	EMI Tape (80560) 30*40mm	
	41.54612.001	EMI Tape (80560) 25*30mm	
	41.55202.001	EMI GASKET 773GT 5*5.5*10mm	
	41.59301.001	EMI SPRING CI-0025Ni 18mm	
	42.56901.002	W.A. 30P UL20276 #28 180mm PV872CS (PANEL)	
	42.56902.003	W.A. 12/6P UL1007 #24 300mm PV872CS(INV)	
	42.59303.001	W.A. 8/14P UL1571 #28 260mm PV872CS(MB TO C	
	42.59304.001	W.A. 3P AUDIO 260mm PV872CS	
	42.59305.001	W.A. 4P UL1571 #28 240mm PV872CS(SPEAKER)	
	42.59306.001	W.A. 8P UL1571 #28 100mm PV872CS,Audio	
	44.59303.001	PCBA INVERTER PLCD2417414E-REV1 FOR NMV	
	48.59301.001	TFT LCD 17.0" 1280*1024 SAMSUNG LTM 170 EU	
	49.59901.004	ASSY SPEAKER PV872CS	
	51.00014.002	FILAMENT TAPE 3M NO.8915 25mm*55M	
	51.59303.002	SPEAKER COVER PC+ABS-CP02 PV872A	
	51.59305.001	INSULATION MYLAR FOR PV872	
	51.59308.001	PC PLATE FOR SAMSUNG PANEL PV872 15*5*0.8t	
	61.59301.006	SUPPORT BRACKET FOR SAMSUNG PANEL/PV870	
	61.59302.002	BRKT FOR PCB/PV870 TIN PV872CS	
	61.59303.002	BRKT FOR INVERTER/PV870 TIN PV872CS	
	75.59301.011	ASSY FRONT COVER PC+ABS VS07A LCD1711M	
	51.56504.001	SELECT KNOB PC+ABS\VS07 PV920	
	51.56505.001	LED LENS PMMA PV920	
	51.59301.011	FRONT COVER PC+ABS-VS07A LCD1711M	
	75.59302.005	ASSY REAR COVER PC+ABS-CP02 LCD1711M	
	51.59302.005	REAR COVER PC+ABS-CP02 LCD1711M	
	61.00042.001	LOCK BRKT+CAP SECC 0.8t	
	61.59304.001	VESA BRKT SECC PV872A	
	80.59302.001	PCBA CTRL BD PV872A	
	00.56501.001	BARE PCB L:2 CONTROL BD PV920	
C1	02.10844.201	CAP CK 0.1uF 10% 16V C1608XR1C104K X7R #060	
C2	02.10844.201	CAP CK 0.1uF 10% 16V C1608XR1C104K X7R #060	
C3	02.10844.201	CAP CK 0.1uF 10% 16V C1608XR1C104K X7R #060	
C4	02.10844.201	CAP CK 0.1uF 10% 16V C1608XR1C104K X7R #060	
C5	02.10844.201	CAP CK 0.1uF 10% 16V C1608XR1C104K X7R #060	
D1	09.00000.035	DIODE LED LTST-C155GYKT "LITEON"	
CON1	11.142M2.302	CNNT M 14P 2mm RT/LEAD TU2005WNR 2*7 "TYU"	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
	35.00016.001	LABEL BARCODE 6*38mm BLANK	
SW1	43.52102.002	SWITCH PUSH PT-002-B2 DC12V 50mA	
SW2	43.52102.002	SWITCH PUSH PT-002-B2 DC12V 50mA	
SW3	43.52102.002	SWITCH PUSH PT-002-B2 DC12V 50mA	
SW4	43.52102.002	SWITCH PUSH PT-002-B2 DC12V 50mA	
SW5	43.52102.002	SWITCH PUSH PT-002-B2 DC12V 50mA	
	80.59305.001	PCBA AUDIO BD W/O EARPHONE PV872CS	
	00.59301.001	BARE PCB L:2 Audio BD PV872CS	
R12	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R13	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R14	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R15	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R1	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R10	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R11	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R3	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R4	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R6	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
C5	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C11	02.10977.201	CAP CK 1uF +80%-20% 16V Y5V CHIP #0805	
C12	02.10977.201	CAP CK 1uF +80%-20% 16V Y5V CHIP #0805	
C8	02.10977.201	CAP CK 1uF +80%-20% 16V Y5V CHIP #0805	
C9	02.10977.201	CAP CK 1uF +80%-20% 16V Y5V CHIP #0805	
C3	02.22274.401	CAP CE 2200uF 20% 16V 13*20 105C SEK "TEA	
R5	03.00053.401	INDCTOR BEAD MLB-160808-0100A-N2 SMD ; MAG	
R7	03.00053.401	INDCTOR BEAD MLB-160808-0100A-N2 SMD ; MAG	
J3	11.042M2.306	CNNT M 4P 2mm RT/LEAD TU2001WNR-04 "TYU"	
JP2	11.043M4.001	CNNT 4P 1.25mm 53261-0410 RT/SM ;"MOLEX"	
JP1	11.082M1.305	CNNT M 8P 2mm ST/LEAD TU2005WNV 2*4 "TYU"	
U2	20.TDA70.531	IC TDA7053A AUDIO AMPLIFIER "PHILIPS"	
	35.00016.001	LABEL BARCODE 6*38mm BLANK	
	80.59306.001	PCBA MB PV872ASG "GM5020"	
	00.59503.001	BARE PCB L:4 MAIN BD PV890C	
R118	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R119	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R120	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R132	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R133	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R142	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R147	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R151	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R153	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R155	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R60	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R61	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R79	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R80	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R81	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R82	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R83	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R88	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
R89	01.00036.502	RES RP 0 5% 1/16W CHIP #0603;"TA-I TECHNOLO	
L15	01.00039.501	RES RP 0 5% 1/10W CHIP #0805	
L18	01.00039.501	RES RP 0 5% 1/10W CHIP #0805	
L30	01.00039.501	RES RP 0 5% 1/10W CHIP #0805	
L7	01.00039.501	RES RP 0 5% 1/10W CHIP #0805	
L8	01.00039.501	RES RP 0 5% 1/10W CHIP #0805	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
R104	01.10136.501	RES RP 100 5% 1/16W #0603	
R105	01.10136.501	RES RP 100 5% 1/16W #0603	
R11	01.10136.501	RES RP 100 5% 1/16W #0603	
R13	01.10136.501	RES RP 100 5% 1/16W #0603	
R15	01.10136.501	RES RP 100 5% 1/16W #0603	
R39	01.10136.501	RES RP 100 5% 1/16W #0603	
RP18	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP19	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP20	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP21	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP22	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP23	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP24	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP25	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP26	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP27	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP28	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
RP29	01.10136.502	RES RP 100 5% 1/16W X4 V8V 8P SMD	
R43	01.10216.501	RES RP 1K 1% 1/16W CHIP #0603	
R90	01.10216.501	RES RP 1K 1% 1/16W CHIP #0603	
RP4	01.10236.501	RES RP 1K 5% 1/16W x4 V8V 8P SMD "PANAS	
RP1	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP2	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP3	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP5	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP6	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP7	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
RP8	01.10336.501	RES RP 10K 5% 1/16W x4 V8V 8P SMD "PANASO	
R106	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R107	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R108	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R3	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R35	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R36	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R37	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R40	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R41	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R47	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R48	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R53	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R73	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R74	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R96	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R97	01.10336.502	RES RP 10K 5% 1/16W CHIP #0603;"TA-I TECHNO	
R72	01.10636.501	RES RP 10M 5% 1/16W CHIP #0603	
R4	01.20116.501	RES RP 200 1% 1/16W CHIP #0603	
R84	01.20116.501	RES RP 200 1% 1/16W CHIP #0603	
R85	01.20116.501	RES RP 200 1% 1/16W CHIP #0603	
R125	01.22236.501	RES RP 2.2K 5% 1/16W CHIP #0603	
R127	01.22236.501	RES RP 2.2K 5% 1/16W CHIP #0603	
R6	01.30116.501	RES RP 330 1% 1/16W CHIP #0603	
R124	01.33036.502	RES RP 33 5% 1/16W CHIP #0603;"TA-I TECHNOL	
R126	01.33036.502	RES RP 33 5% 1/16W CHIP #0603;"TA-I TECHNOL	
R102	01.47236.501	RES RP 4.7K 5% 1/16W CHIP #0603	
R103	01.47236.501	RES RP 4.7K 5% 1/16W CHIP #0603	
R44	01.47236.501	RES RP 4.7K 5% 1/16W CHIP #0603	
R5	01.47236.501	RES RP 4.7K 5% 1/16W CHIP #0603	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
R1	01.51136.501	RES RP 510 5% 1/16W CHIP #0603;"TA-I TECHNO	
R2	01.51136.501	RES RP 510 5% 1/16W CHIP #0603;"TA-I TECHNO	
R109	01.75016.501	RES RP 75 1% 1/16W CHIP #0603;"TA-I TECHNOL	
R110	01.75016.501	RES RP 75 1% 1/16W CHIP #0603;"TA-I TECHNOL	
R111	01.75016.501	RES RP 75 1% 1/16W CHIP #0603;"TA-I TECHNOL	
R42	01.75016.501	RES RP 75 1% 1/16W CHIP #0603;"TA-I TECHNOL	
C135	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C168	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C169	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C208	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C232	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C24	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C26	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C54	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C59	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C89	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C90	02.10074.404	CAP CE 10u 20% 16V 4*7 RADIAL	
C11	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C137	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C16	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C20	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C22	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C251	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C30	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C338	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C35	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C5	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C7	02.10174.404	CAP CE 100u 20% 16V 6.3*11 RADIAL 105 degre	
C14	02.10272.404	CAP CE 1000U 6.3V 20% 8*11.5mm 105° 3Khrs	
C55	02.10272.404	CAP CE 1000U 6.3V 20% 8*11.5mm 105° 3Khrs	
C170	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C171	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C172	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C173	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C174	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C345	02.10647.101	CAP CC 1000pF 10% 50V X7R #0603	
C23	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C39	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C40	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C41	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C42	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C44	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C46	02.10747.101	CAP CC 0.01uF 10% 50V X7R #0603;"YCTC""TEAM	
C106	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C107	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C108	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C109	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C110	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C115	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C116	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C117	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C118	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C119	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C12	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C125	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C126	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C127	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
C128	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C13	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C15	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C164	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C165	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C166	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C167	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C17	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C19	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C209	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C21	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C214	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C219	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C220	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C221	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C230	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C231	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C241	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C25	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C250	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C252	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C253	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C262	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C263	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C264	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C27	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C28	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C29	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C293	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C294	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C296	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C302	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C325	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C326	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C327	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C331	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C332	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C333	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C334	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C335	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C336	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C337	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C339	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C340	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C341	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C342	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C343	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C344	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C346	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C347	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C348	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C349	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C350	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C351	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C352	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C353	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C354	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
C355	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C356	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C357	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C358	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C359	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C36	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C360	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C361	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C362	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C56	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C57	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C6	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C66	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C67	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C70	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C71	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C72	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C73	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C74	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C75	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C76	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C77	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C78	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C79	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C8	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C91	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C92	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C93	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C94	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C95	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C96	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C97	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C98	02.10887.101	CAP CC 0.1uF +80%-20% 50V Y5V #0603; "YCTC"	
C297	02.10987.101	CAP CC 1uF +80%-20% 16V Y5V #0603	
C18	02.12174.401	CAP CE 120uF 20% 16V LOW-ESR TYPE RC=405mA	
C300	02.22272.401	CAP CE 2200uF 20% 16V 13*25 "TEAOP"	
C300	02.22274.404	CAP CE 2200uF 20% 16V 12.5*20mm Low-ESR "TA	
C138	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C139	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C210	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C211	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C212	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C213	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C215	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C216	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C217	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C218	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C222	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C223	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C224	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C225	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C226	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C227	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C228	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C229	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C233	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C234	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
C235	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C236	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C237	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C238	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C239	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C240	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C242	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C243	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C244	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C245	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C246	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C247	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C248	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C249	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C254	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C255	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C256	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C257	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C258	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C259	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C260	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C261	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C265	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C266	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C267	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C268	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C269	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C270	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C271	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C272	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C319	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C60	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C61	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C68	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C69	02.22447.101	CAP CC 22pF 5% 50V NPO #0603; "YCTC","TEAM	
C100	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C101	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C102	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C103	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C104	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C105	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C106	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C111	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C112	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C120	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C121	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C122	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C123	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C129	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C130	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C132	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C328	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C329	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C330	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C62	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C63	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C64	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
C65	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C80	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C81	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C82	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C83	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C84	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C85	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C86	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C87	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C88	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
C99	02.22547.101	CAP CC 220pF 10% 50V X7R #0603	
L10	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L11	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L12	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L16	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L21	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L22	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L23	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L24	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R138	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R139	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R140	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R141	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R145	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R33	03.00072.401	EMI Bead MLB-201209-0300A-N1	
R34	03.00072.401	EMI Bead MLB-201209-0300A-N1	
L5	03.15100.301	INDCTR CHOKE 150uH 20% 3A DIP A0060D1 "ARON	
L3	03.22040.301	INDCTR CHOKE COIL 22u 10% 3A DIP A00601C2 "	
L4	03.22040.301	INDCTR CHOKE COIL 22u 10% 3A DIP A00601C2 "	
L6	03.22040.301	INDCTR CHOKE COIL 22u 10% 3A DIP A00601C2 "	
X1	07.24000.101	XTAL 24MHz HC-49S HALF SIZE "TXC"	
X2	07.24000.101	XTAL 24MHz HC-49S HALF SIZE "TXC"	
Q1	08.2N390.402	TRNSTR NPN GENERAL MMBT3904LT1 SOT-23 "MO	
D10	09.1N414.802	DIODE RLS4148 / PMLL4148L SMD "PHILIPS"	
D1	09.1N582.201	DIODE IN5822 SCHOTTKY RECTIFIER DO201AD	
D11	09.DAN20.2K1	DIODE ARRAY DAN202K SMD; "ROHM"	
JP2	11.049F2.002	CNNT F 4P 2MJ-0402A120 RT/LEAD ;	
JP8	11.082M2.303	CNNT M 8P 2mm RT/LEAD TU2005WNR 2*4 "TYU"	
JP9	11.082M2.303	CNNT M 8P 2mm RT/LEAD TU2005WNR 2*4 "TYU"	
JP4	11.122M2.304	CNNT M 12P 2.0mm RT/DIP TU2005WNR 2*6 "TYU"	
JP13	11.155F2.203	CNNT D-SUB 15P RT/LEAD BLUE PC99 VGA	
JP12	11.302M1.302	CNNT M 30P 2mm ST/LEAD TU2005WNV 2*15 "TYU"	
U1	20.11173.301	IC VOLTAGE REGULATOR LT1117-3.3 800mA SOT-2	
U19	20.24LC2.1A1	IC CMOS 24LC21A EEPROM 128*8 BIT 8SOIC	
U22	20.74F04.D01	IC 74F04D HEX INVERTER 14SO "PHILIP"	
U3	20.AIC10.842	IC AIC1084:(TO252) 5A ADJUSTABLE REGULATOR	
U5	20.AIC10.842	IC AIC1084:(TO252) 5A ADJUSTABLE REGULATOR	
U10	20.GM502.001	IC GM5020 ALL IN ONE SCALLER "160MHz" "Gene	
U4	20.IRF72.041	IC PMOS IRF7204 SWITCHER VOLTAGE 8SO "IRTRO	
U22	20.SI805.0S1	IC SI-8050S(LF1102) Switching Regulator TO2	
U16	20.THC63.LV1	IC THC63LVDM83A 85MHZ LVDS TSSOP	
U17	20.THC63.LV1	IC THC63LVDM83A 85MHZ LVDS TSSOP	
U9	21.24LC1.601	IC EEPROM 24LC16B/SN M 2K*8 BIT IIC BUS 8SO	
U8	21.W78E6.2B1	IC W78E62BP-40 MLU 4KB MTP 64KB ISP FL	
	39.59306.001	FW BIOS SOURCE CODE PV872ASG "GM5020"	
	35.00017.001	LABEL BIOS 13*11mm BLANK	
	35.00018.001	LABEL BARCODE 13*26.5mm BLANK	

SYMBOL	Part No for Coretronic	DESCRIPTION	Remark
B.S-VGA*2	85.005AG.075	SCREW HEX I/O #4-40*H5*L7.5 Ni NYLOK	
B.S-LCD*4	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni	
E.I-B.S*2	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni	
E.M-B.S*4	85.1F123.060	SCREW PAN MECH W/SF M3*6 Ni	
S.I-B.S*2	85.AA123.030	SCREW PAN TAPPING M3*3 Ni	
S.M-B.S*3	85.AA123.030	SCREW PAN TAPPING M3*3 Ni	
B.S-C.R*2	85.UA123.060	SCREW PAN TAP M3*6 Ni	
SPK-B.S*4	85.UA123.060	SCREW PAN TAP M3*6 Ni	
Ct1-C.F*3	85.UA123.080	DOUBLE THREADS SCREW PAN TAP M3*8 Ni	
C.F-C.R*2	85.UA123.100	DOUBLE THREADS SCREW PAN M3*10 Ni	
P.B-H.T*4	85.1F323.120	SCREW PAN MECH W/SF M3*12 BLACK TFT450	
	42.53506.001	CABLE POWER-CORD AC SP60+AS14 1.8M BLACK PV	UK ver Only
	42.50112.001	CABLE POWER CORD 1830mm SP-023+IS14 EUR.	CE ver Only
	42.56707.002	CABLE DC DE-ATTACHABLE CABLE BLACK 4PIN MOL	
	42.59901.003	CABLE VGA 15P 1800mm 2 CORE VX Series	
	42.59903.002	CABLE AUDIO 1.8M FOR PC99+MARK	
	35.59102.001	SHIPPING LABEL LCD1511M	
	36.59306.001	SET UP SHEET LCD1711M	
	36.59307.002	USER'S MANUAL LCD1711M(CD-ROM),UK(W/WARRAN	UK ver Only
	36.59307.003	USER'S MANUAL LCD1711M(CD-ROM),EUROPE,W/SAL	CE ver Only
	51.59307.001	PE BAG HDPE 745*530*0.04t PV872 "NMV"	
	55.56712.001	CORNER BOARD 40*40*5*1480mm	
	55.57202.001	CORNER BOARD 40*40*5*960mm	
	55.59302.001	CONER BOARD 40*40*2000*5mm PV872	
	55.59305.001	CARTON AB-18 528*123*455 LCD1711M	
	56.59303.001	CUSHION B EPS PV872A	
	56.59304.001	CUSHION T EPS PV872A	
	58.59303.001	PLYWOOD PALLET 1144*1096*130 (H) LCD1711M	