

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

NEC

PART NO. 599910588

SERVICE MANUAL

COLOR MONITOR **MultiSync® LCD1550V**

MODELS LCD1550V-1 (B)/-BK(B)

This model changed a LCD panel (manufactured by Hannstar) from the original model. Use the applicable service manual which surely confirms the model number of the NAME PLATE, INSTRUCTION.

Refer to the page which the point of view of the model number is mentioned in.

- Model number : LA-15R02 / LA-15R02-BK
  Maintenance is performed by the original service manual (Part No. 599910571).
- Model number : LA-15R02-1 / LA-15R02-1-BK
  Maintenance is performed using this service manual.

NEC-MITSUBISHI ELECTRIC VISUAL SYSTEMS CORPORATION

JUNE 2002

200206
08109741
08109742

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.

Point of view of the model number

NAME PLATE, INSTRUCTION (White model)



Model number

Original model: LA-15R02

Hannstar LCD model: LA-15R02-1

NAME PLATE, INSTRUCTION (Black model)



Model number

Original model: LA-15R02-BK

Hannstar LCD model: LA-15R02-1-BK

CONTENTS

Page No.

USER'S MANUAL ---------- 1-1

SERIAL NUMBER INFORMATION ---------- 2-1

DISASSEMBLY ---------- 3-1

ADJUSTMENT PROCEDURES ---------- 4-1

INSPECTION ---------- 5-1

TROUBLE SHOOTING ---------- 6-1

CIRCUIT DESCRIPTION ---------- 7-1

REPLACEMENT PARTS LIST ---------- 8-1

BLOCK DIAGRAM ---------- 9-1

SCHEMATIC DIAGRAMS ---------- 10-1

USER'S MANUAL

MultiSync LCD1550V

User's Manual

Uživatelská příručka

Bedienerhandbuch

Οδηγίες Χρήσης

Manual del usuario

Manuel Utilisateur

Manuale utente

Gebruikershandleiding

Podręcznik użytkownika

Руководство пользователя

Kullanıcı Klavuzu

NEC

Declaration

Declaration of the Manufacturer

We hereby certify that the colour monitor
MultiSync LCD1550V (LA-15R02)
MultiSync LCD1550V (LA-15R02-BK)
MultiSync LCD1550V (LA-15R02-1)
MultiSync LCD1550V (LA-15R02-1-BK)
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, Corp.
MS Shibaura Bldg., 13-23,
Shibaura 4-chome,
Minato-Ku, Tokyo 108-0023, Japan

TCO’99

MultiSync LCD1550V White Model (LA-15R02 and LA-15R02-1)

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 Bioaccumulative.

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.tco-info.com/

TCO’95

MultiSync LCD1550V Black Model (LA-15R02-BK and LA-15R02-1-BK)

Congratulations! You have just purchased a TCO’95 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’95 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), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

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.

TCO'95 is a co-operative project between TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

Environmental Requirements

Brominated flame retardants

Brominated 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. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fisheating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

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'95 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'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colourgenerating layers of display screens must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays, switches, and back-light systems, Mercury damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit, except the back-light system.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. 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'95 requirement; Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

* Bio-accumulative is defined as substances which accumulate within living organisms.

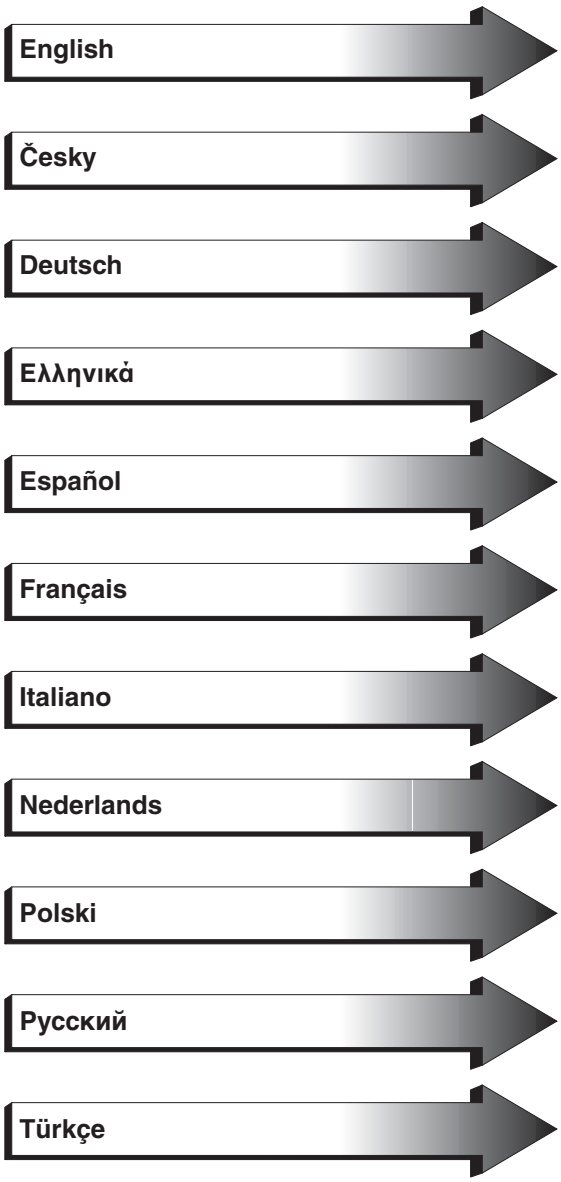
** Lead, Cadmium and Mercury are heavy metals which are Bioaccumulative.

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'95 approved and labelled products by visiting their website at:
http://www.tco-info.com/


English
Česky
Deutsch
Ελληνικά
Español
Français
Italiano
Nederlands
Polski
Русский
Türkçe

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.
REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

RISK OF ELECTRIC SHOCK • DO NOT OPEN

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.

This symbol alerts the user 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.

Caution:

When operating the MultiSync LCD1550V with a 220-240V AC power source in Europe, use the power cord provided with the monitor.

In the UK, a BS approved power cord with a moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cord is not supplied with this equipment please contact your supplier.

When operating the MultiSync LCD1550V with a 220-240V AC power source in Australia, use the power cord provided with the monitor.

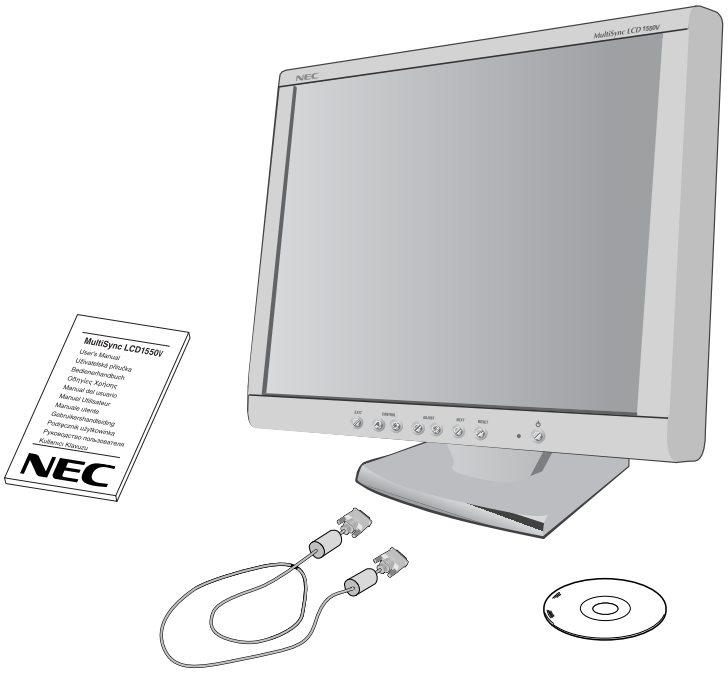
For all other cases, use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.

ENERGYSTAR is a U.S. trademark.
As an ENERGYSTAR® Partner, NEC-Mitsubishi Electronics Display of America, Inc. has determined that this product meets the ENERGYSTAR guidelines for energy efficiency.
The ENERGYSTAR emblem does not represent EPA endorsement of any product or service.
IBM PC/XT/AT, PS/2, MCGA, VGA, 8514/A and XGA are registered trademarks of International Business Machines Corporation.
Apple and Macintosh are registered trademarks of Apple Computer Inc.
Microsoft and Windows are registered trademarks of the Microsoft Corporation.
NEC is a registered trademark of NEC Corporation.
All other trademarks or registered trademarks are property of their respective owners.

Contents

Your new NEC MultiSync LCD monitor box* should contain the following:

- MultiSync LCD1550V monitor with tilt base
- Power Cord(s)
- Video Signal Cable
- User's Manual
- CD ROM (includes complete User's Manual in PDF format). To see the User's Manual, Acrobat Reader 4.0 must be installed on your PC.



** Remember to save your original box and packing material to transport or ship the monitor.*

Quick Start

To attach the MultiSync LCD monitor to your system, follow these instructions:

1. Turn off the power to your computer.
2. Remove connector cover and cable cover.
3. **For PC:** Connect the 15-pin mini D-SUB of the appropriate signal cable to the connector for the display card in your system (**Figure A.1**). Tighten all screws.

   For Mac: Connect the MultiSync LCD1550V Macintosh cable adapter to the computer (**Figure B.1**). Attach the 15-pin mini D-SUB end of the appropriate signal cable to the MultiSync LCD1550V Macintosh cable adapter (**Figure B.1**). Tighten all screws.
4. Connect the 15-pin mini D-SUB of the video signal cable to the appropriate connector on the back of the monitor (**Figure C.1**). Place the Video Signal Cable under Clip B.
5. Connect one end of the power cord to the MultiSync LCD Series monitor and the other end to the power outlet. Place the video signal cable and AC power cord under the clips (**Figure C.1**). Replace connector cover and cable cover.

NOTE: Adjust the position of the cable under the clips to avoid damage for cable or monitor.

NOTE: Please refer to Caution section of this manual for proper selection of AC power cord.

6. The Vacation Switch on the right side of the monitor must be turned on (**Figure D.1**). Turn on the monitor with the Power Button and the computer.

NOTE: The Vacation Switch is a true on/off switch. If this switch is on the OFF position, the monitor cannot be turned on using the front button DO NOT switch on/off repeatedly.

7. No-touch auto adjust automatically adjusts the monitor to optimal settings upon initial setup for most timings. For further adjustments, use the following OSM controls:
   - Auto Adjust Contrast
   - Auto Adjust

Refer to the **Controls** section of this User's Manual for a full description of these OSM controls.

NOTE: If you have any problems, please refer to the **Troubleshooting** section of this User's Manual.

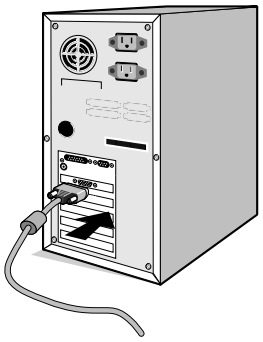


Figure A.1

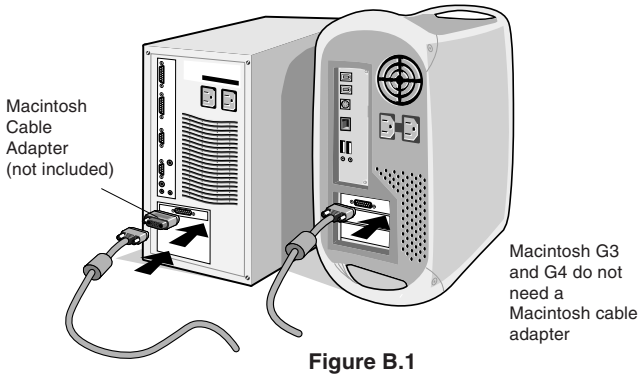


Figure B.1

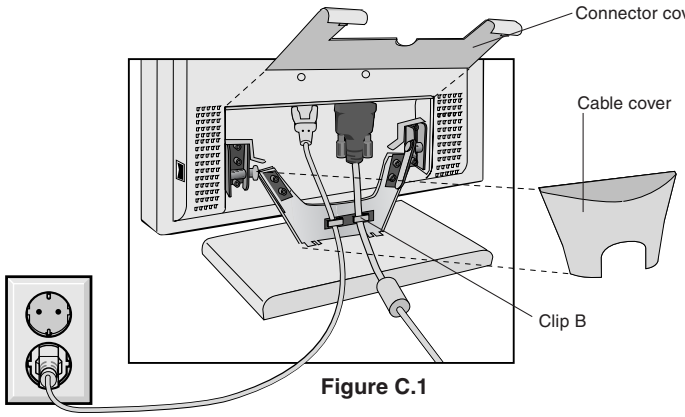


Figure C.1

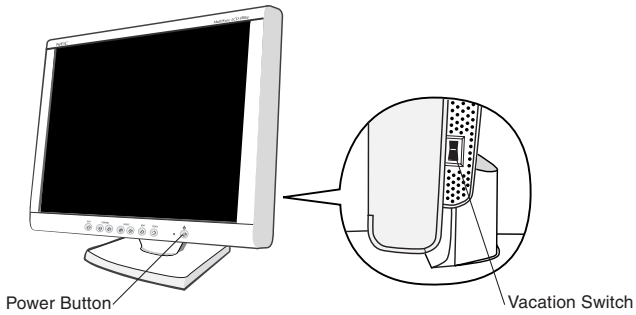


Figure D.1

Tilt

Grasp both sides of the monitor screen with your hands and adjust the tilt as desired (**Figure TS.1**).

Remove Monitor Stand for Mounting

To prepare the monitor for alternate mounting purposes:

1. Remove the connector cover and cable cover (**Figure R.1**).
2. Disconnect all cables.
3. Place monitor face down on a non-abrasive surface (**Figure R.2**).

4. Remove the 4 screws connecting the monitor to the stand and lift off the stand assembly (**Figure R.2**) the monitor is now ready for mounting in an alternate manner.
5. Connect the AC cord and signal cable to the back of the monitor (**Figure R.3**).
6. Reverse this process to reattach stand.

NOTE: Use only VESA-compatible alternative mounting method.

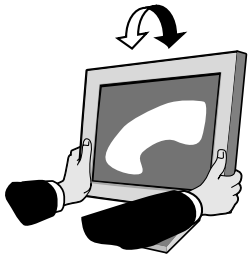


Figure TS.1

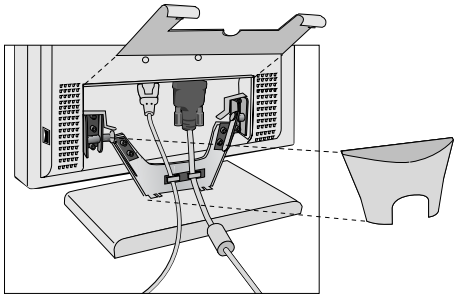
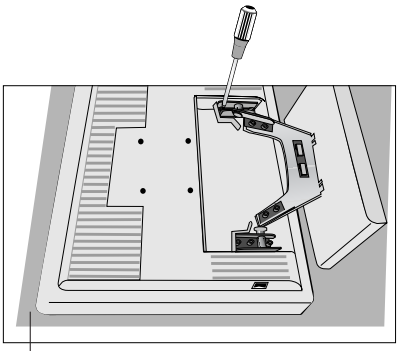


Figure R.1



Non-abrasive surface

Figure R.2

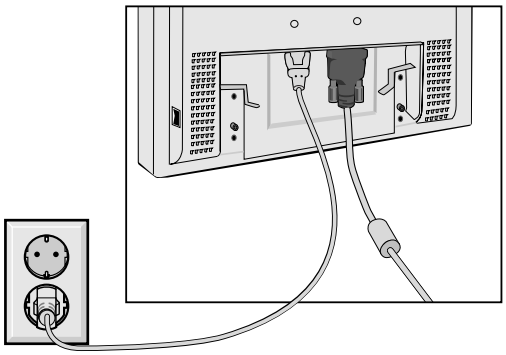
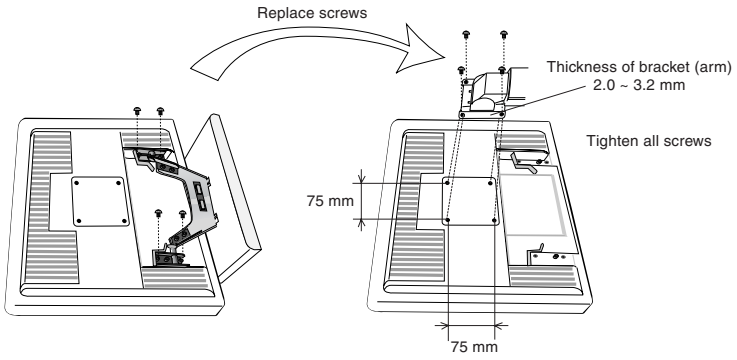
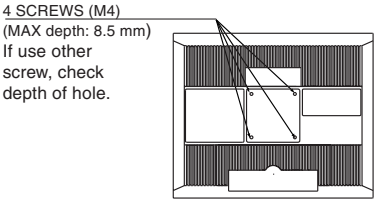


Figure R.3

7. This LCD monitor is designed for use with a flexible arm. Please use the attached screws (4pcs) when mounting. To meet the safety requirements the monitor must be mounted to an arm which guaranties 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).





Weight of LCD assembly: 3.2kg (MAX)

Controls

OSM (On-Screen-Manager) Controls

The OSM controls on the front of the monitor function as follows:
To access OSM press any of the control buttons (◄, ►, **-**, **+**, **NEXT**).

Control	Menu
EXIT	Exits the OSM controls. Exits to the OSM main menu.
CONTROL ◄/►	Moves the highlighted area left/right to select control menus. Moves the highlighted area up/down to select one of the controls.
ADJUST -/+	Moves the bar left/right to increase or decrease the adjustment. Activates Auto Adjust function. Enter the sub menu.
NEXT	Moves the highlighted area of main menu right to select one of the controls.
RESET	Resets the highlighted control to the factory setting.

NOTE: When RESET is pressed in the main and sub-menu, a warning window will appear allowing you to cancel the RESET function by pressing the EXIT button.

☼◑ Brightness/Contrast Controls

☼ **BRIGHTNESS**
Adjusts the overall image and background screen brightness.

◑ **CONTRAST**
Adjusts the image brightness in relation to the background.

AUTO **AUTO ADJUST**
Adjusts the image displayed for non-standard video inputs.

AUTO Auto Adjust

Automatically adjusts the Image Position, the H. Size and Fine setting.

Position Controls

LEFT/RIGHT

Controls Horizontal Image Position within the display area of the LCD.

DOWN/UP

Controls Vertical Image Position within the display area of the LCD.

H. SIZE

Adjusts the horizontal size by increasing or decreasing this setting.

FINE

Improves focus, clarity and image stability by increasing or decreasing this setting.

RGB Colour Control Systems

Five colour presets select the desired colour setting. Each colour setting is adjusted at the factory.

R,G,B

Increases or decreases Red, Green or Blue colour depending upon which is selected. The change in colour will appear on screen and the direction (increase or decrease) will be shown by the bars.

Tools

OSM POSITION

You can choose where you would like the OSM control image to appear on your screen. Selecting OSM Location allows you to manually adjust the position of the OSM control menu left, right, down or up.

OSM TURN OFF

The OSM control menu will stay on as long as it is use. In the OSM Turn Off submenu, you can select how long the monitor waits after the last touch of a button to shut off the OSM control menu. The preset choices are 10, 20, 30, 45, 60 and 120 seconds.

OSM LOCK OUT

This control completely locks out access to all OSM control functions. When attempting to activate OSM controls while in the Lock Out mode, a screen will appear indicating the OSM controls are locked out.
To activate the OSM Lock Out function, press ◄, then ► and hold down simultaneously. To de-activate the OSM Lock Out, press ◄, then ► and hold down simultaneously.

RESOLUTION NOTIFIER

This optimal resolution is 1024 x 768. If ON is selected, a message will appear on the screen after 30 seconds, notifying you that the resolution is not at 1024 x 768.

FACTORY PRESET

Selecting Factory Preset allows you to reset all OSM control settings back to the factory settings. The RESET button will need to be held down for several seconds to take effect. Individual settings can be reset by highlighting the control to be reset and pressing the RESET button.

Information

DISPLAY MODE

Indicates the current display resolution and frequency setting of the monitor.

MONITOR INFO.

Indicates the model and serial numbers of your monitor.

OSM Warning

OSM Warning menus disappear with Exit button.

NO SIGNAL: This function gives a warning when there is no signal present. After power is turned on or when there is a change of input signal or video is inactive, the **No Signal** window will appear.

RESOLUTION NOTIFIER: This function gives a warning of use with optimized resolution. After power is turned on or when there is a change of input signal or the video signal doesn't have proper resolution, the **Resolution Notifier** window will open. This function can be disabled in the TOOL menu.

OUT OF RANGE: This function gives a recommendation of the optimized resolution and refresh rate. After the power is turned on or there is a change of input signal or the video signal doesn't have proper timing, the **Out Of Range** menu will appear.

CHECK CABLE: This function will advise you to check all Video Inputs on the monitor and computer to make sure they are properly connected.

Recommended Use

Safety Precautions and Maintenance



FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE MULTISYNC LCD COLOUR 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.

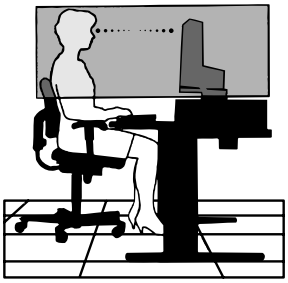
Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- 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.
- Do not cover vent on monitor.
- If monitor is broken, do not come in contact with the liquid crystal.
- If glass is broken. Handle with care.

CAUTION

- 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.

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 53 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 antiglare 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:

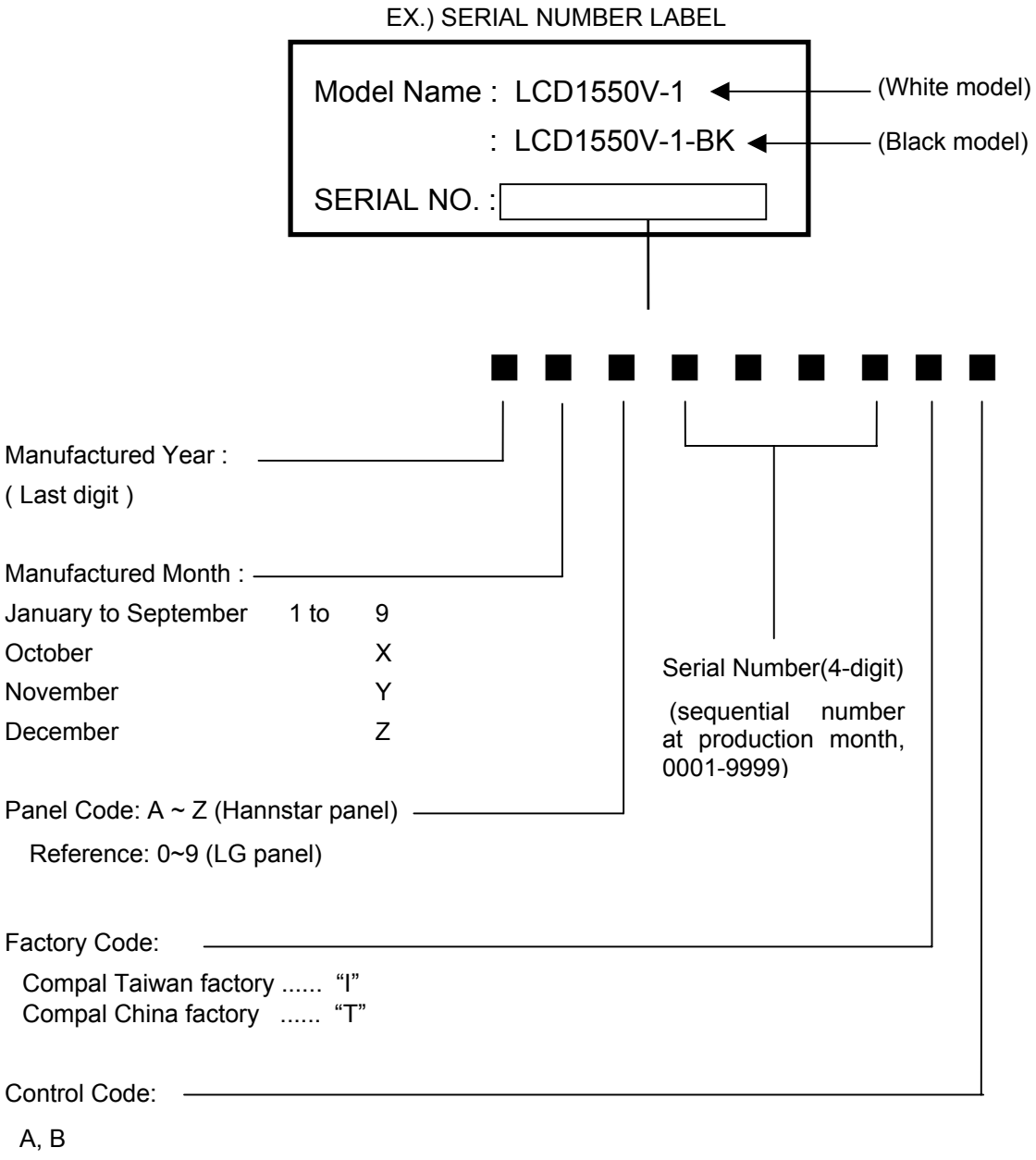
- Use the preset Size and Position controls with standard signals.
- Use the preset Colour Setting.
- Use non-interlaced signals with a vertical refresh rate between 60-75 Hz.
- Do not use primary colour blue on a dark background, as it is difficult to see and may produce eye fatigue to insufficient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

NEC

Printed in Taiwan
HD67NM55101

Serial Number Information

Refer to the serial number information shown below.



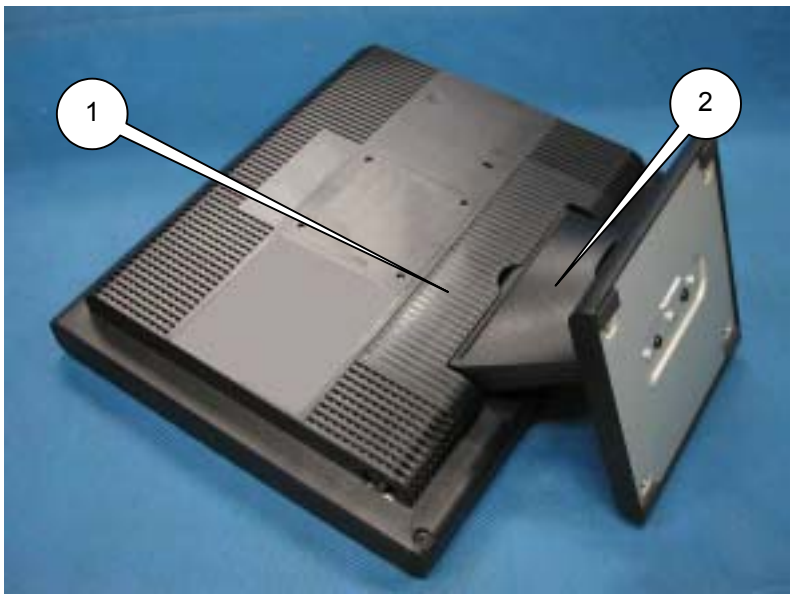
DISASSEMBLY

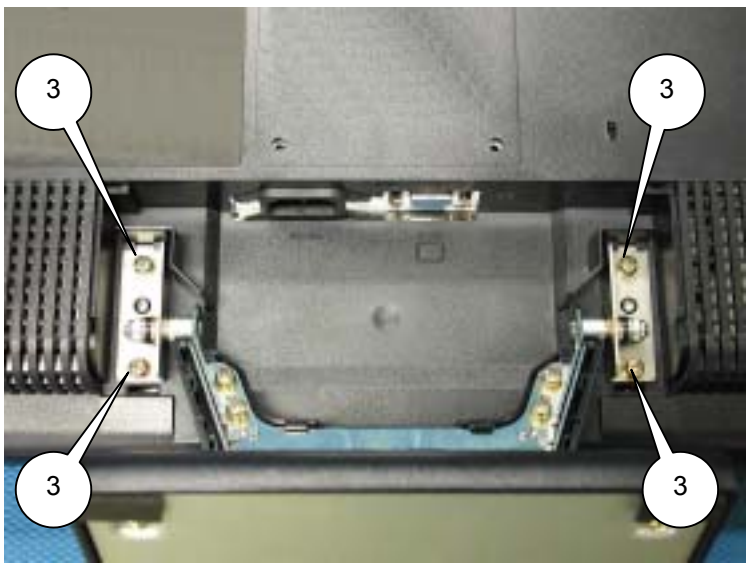
■ Before you disassemble the set, turn off power and pull out the power plug.

■ Use the proper screwdriver. If oversize or undersize screwdriver is used, screws may be damaged.

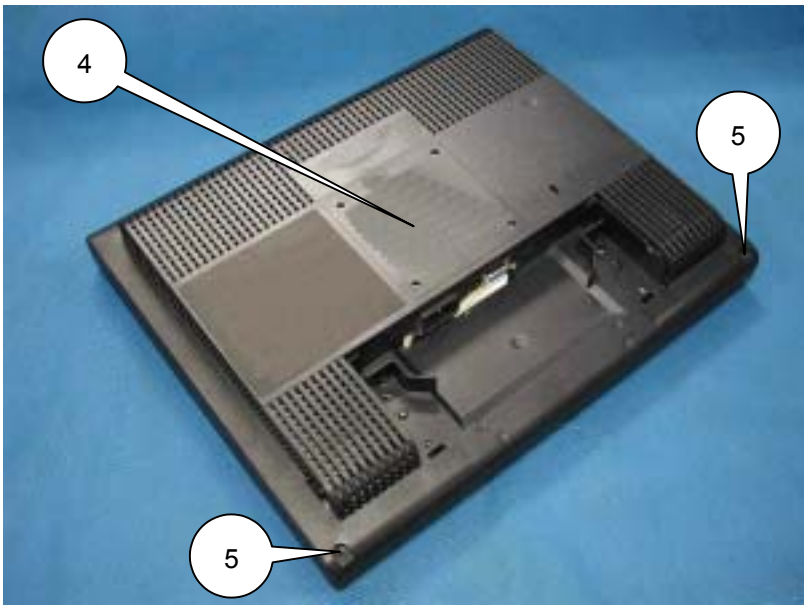
■ Assembly is the opposite process of disassembly.

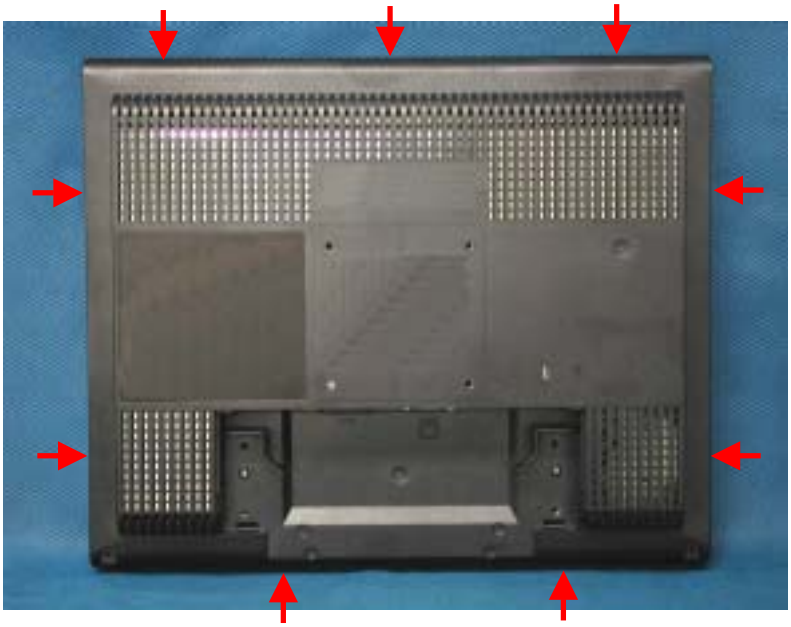
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION	CABINET COLOR
1	FANM5522100	79PP0619	CONNECTOR COVER NM5522 AB	White
1	FANM5522200	79PP0694	CONNECTOR COVER NM5522 AB	Black
2	FANM5524100	79PP0589	CABLE COVER	White
2	FANM5524200	79PP0607	CABLE COVER ASSY(BK-A)	Black
3	---	---	SL-CPIMS*4*12*15BF	---



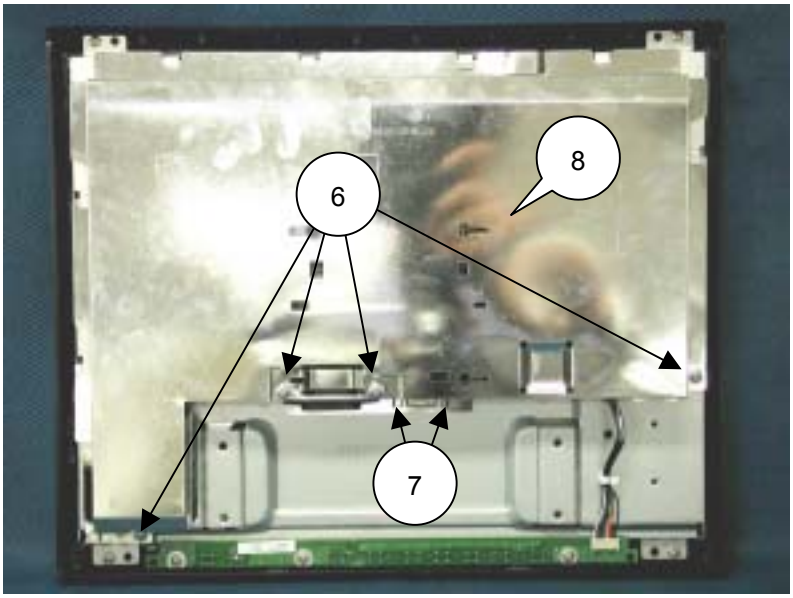


SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION	CABINET COLOR
4	FANM5516100	79PP0587	CABINET BACK ASSY	White
4	FANM5516200	79PP0606	CABINET COVER ASSY(BK-A)	Black
5	---	---	#2CPITS*3*12*3AF	White
5	---	---	#2CPITS*3*12*3KF	Black

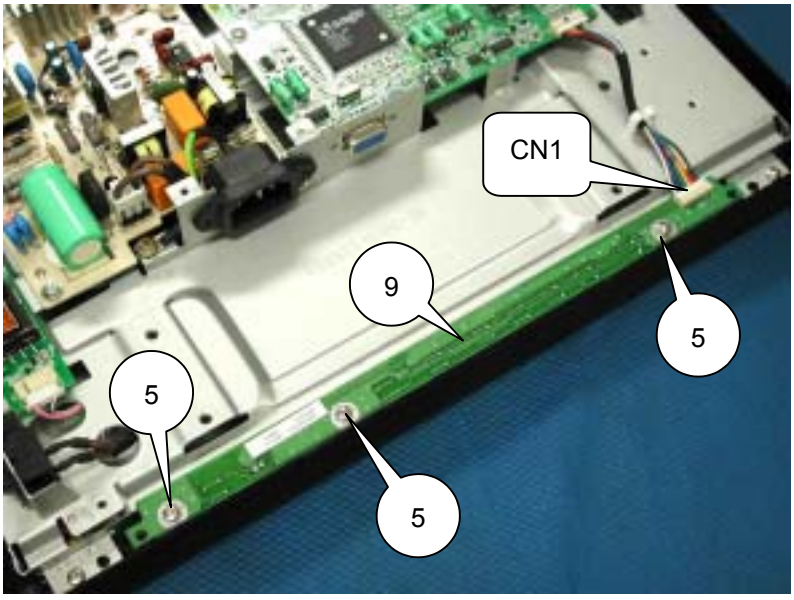




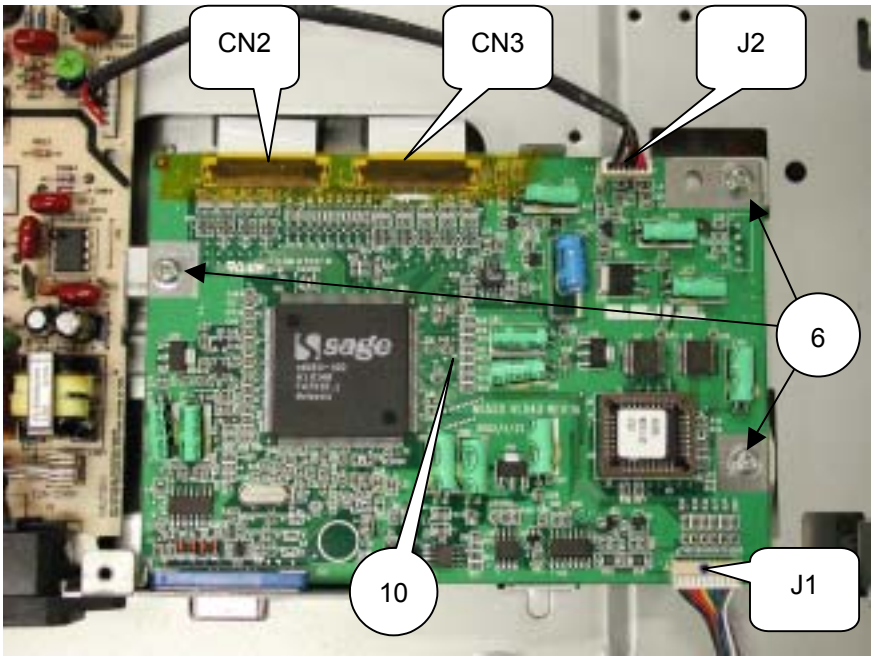
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION
6	---	---	CPIMS(CUP)*3*6*3AF
7	---	---	SCREW SPECIAL
8	---	---	SHIELD PCB ASSY



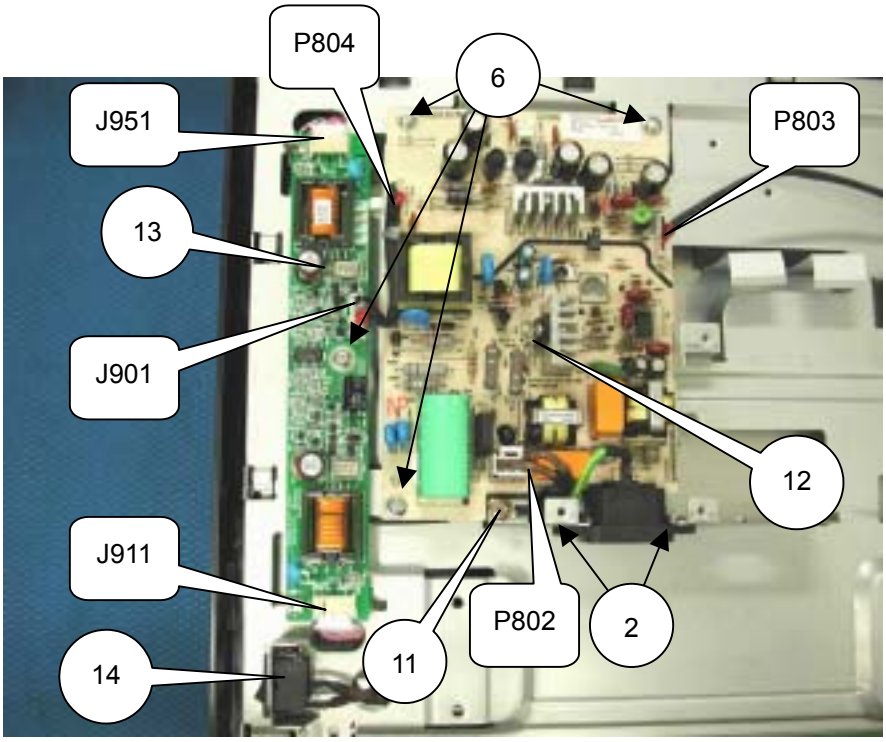
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION
5	---	---	#2CPITS*3*12*3AF
9	454A5267001	79PP0584	PCBA KEY/B VK-530 LNM555G



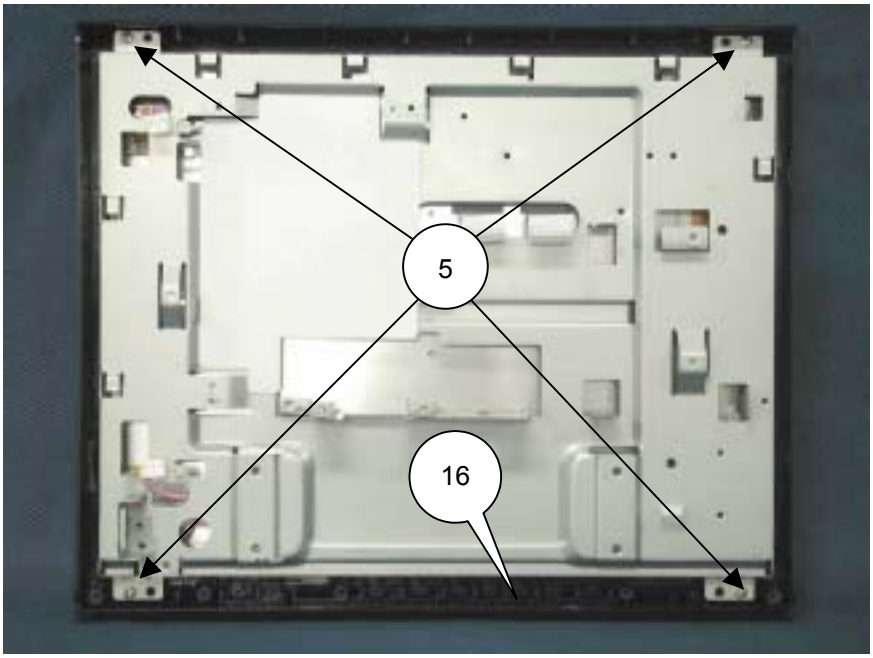
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION	CABINET COLOR
6	---	---	CPIMS(CUP)*3*6*3AF	---
10	461A7367004	79PP0860	FIRMWARE CTRL/B VL-543 LN	White
10	461A7367005	79PP0868	FIRMWARE CTRL/B VL-543 LN	Black



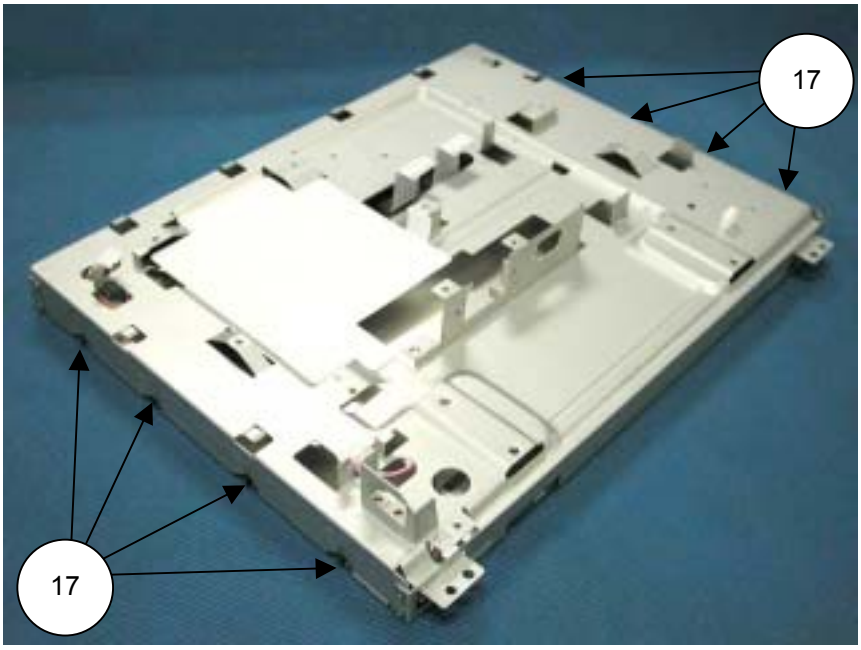
SYMBOL	CODE(Compal)	CODE	DESCRIPTION	CABINET COLOR
6	---	---	CPIMS(CUP)*3*6*3AF	---
11	---	---	SPECIAL WASHER 4*8*15BF	---
26	---	---	CFIMS*3*6*3KF	---
12	453A7367001	79PP0801	PCBA POWER/B VP-543 LNS55	---
13	453A7567001	79PP0802	PCBA INVERTER/B VI-543 LN	---
14	DC020149900	79PP0806	H-CON SET NS555 P802-SW	White
14	DC020150000	79PP0855	H-CON SET NS555 P802-SW B	Black



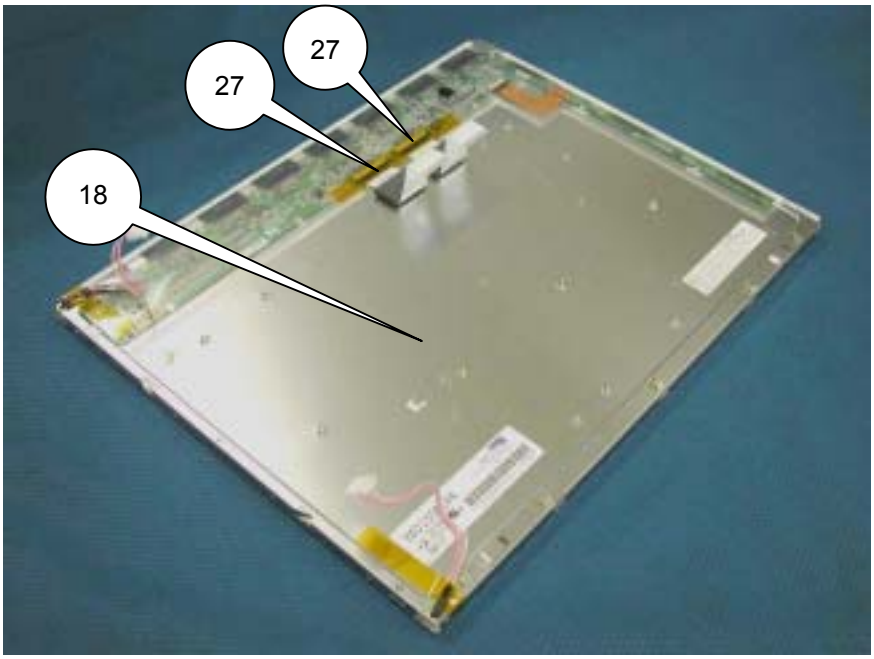
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION	CABINET COLOR
5	---	---	#2CPITS*3*12*3AF	---
16	FANM5515100	79PP0586	CABINET FRONT ASSY	White
16	FANM5515200	79PP0605	CABINET FRONT ASSY(BK-A)	Black



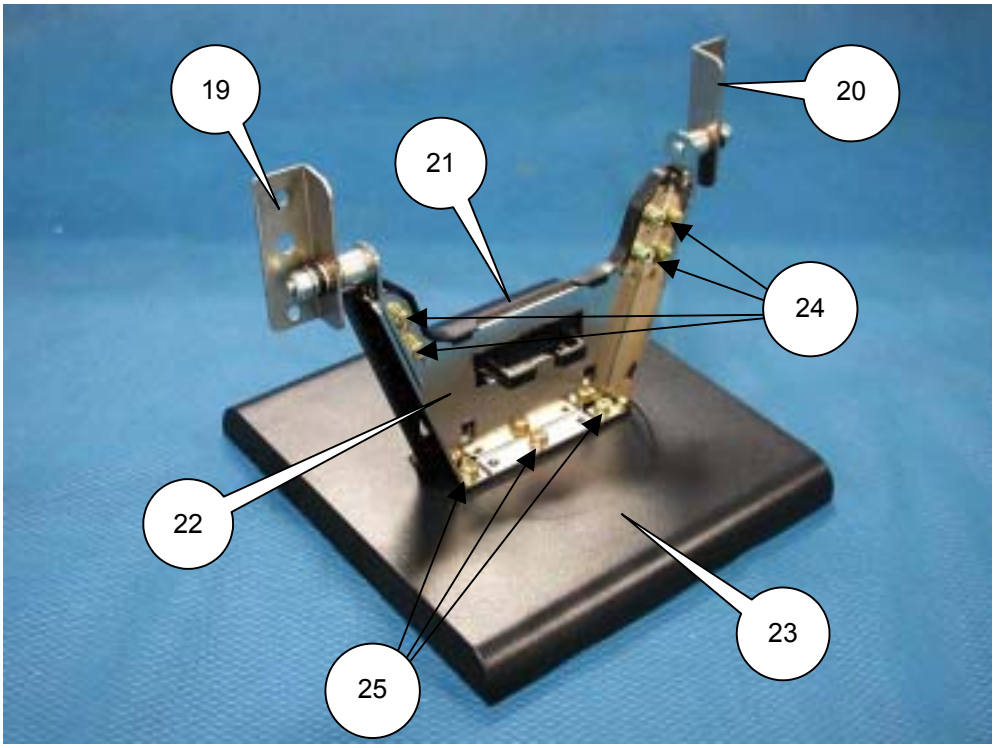
SYMBOL	CODE(Compal)	CODE(NMV)	DESCRIPTION
17	---	---	CPIMS*2.5**4*3AF



SYMBOL	CODE(Compal)	CODE	DESCRIPTION
18	AC600022900	79PP0804	LCD HSD150SX84-B 15" HANNSTAR
27	NBX40000300	79PP0808	FFC 40P G P0.5 PAD=0.5 71



SYMBOL	CODE(Compal)	CODE	DESCRIPTION	CABINET COLOR
19	---	---	HINGE L	---
20	---	---	HINGE R	---
21	FANM5523100	79PP0620	STAND FRONT NM5523 ABS+PC	White
21	FANM5523200	79PP0695	STAND FRONT NM5523 ABS+PC	Black
22	---	---	BRACKET HINGE	---
23	FANM5517100	79PP0618	BASE ASSY NM5517 ABS+PC M	White
23	FANM5517200	79PP0693	BASE ASSY-NEC NM5517 ABS+	Black
24	---	---	SL-CPIMS*4*8*15BF	---
25	---	----	SL-CPIMS*4*16*15BF	---



ADJUSTMENT PROCEDURES

TABLE OF CONTENTS

Page

1. Application ---------- 2-2

2. Adjustment conditions ---------- 2-2
2.1 Time for adjustment ---------- 2-2
2.2 Measuring instruments, jigs, and tools ---------- 2-2
2.3 Power-supply voltage ---------- 2-2
2.4 Aging ---------- 2-2

3. Set adjustments ---------- 2-3
3.1 Power ON ---------- 2-3
3.2 Factory mode ---------- 2-4
3.3 Factory reset and auto contrast ---------- 2-8

4. VG-829 Setting Method ---------- 2-10

1. Application

This adjustment specification shall be applied to the adjustment of the LCD1550V (LA-15R02-1) / LCD1550V-BK (LA-15R02-1-BK).

2. Adjustment conditions

2.1 Time for adjustment

Adjustment of a unit to be adjusted shall be carried out only at the time of the adjustment of the set as a whole.

2.2 Measuring instruments, jigs, and tools

The measuring instruments, jigs, and tools required at the time of the adjustment of the unit to be adjusted shall be as specified below.

a. A signal generator that can generate an output of signal timing produced by the adjusted (*) VG-829 or specified in [4. Setting method for the VG-829.] In this case, however, this signal generator shall be capable of displaying all white and all black as a screen display pattern.

* The word “adjusted” shall mean that the amplitude of each signal R, G, B, which is output from the signal generator, is maintained at 0.7Vp-p ± 0.05V when a load of 75Ω is connected.

b. D-SUB 15-pin signal cable

c. Video signal cable

2.3 Power-supply voltage

INPUT : 100Vac ~ 240Vac ±10%, 47~63Hz

2.4 Aging

Not required.

3. Set adjustments

3.1 Power ON

1) Insert the AC power cable in a wall outlet, or press the POWER key ⏻ thereafter. Confirm that the LED is lit in amber (or that an OSM of [NO SIGNAL] is displayed).

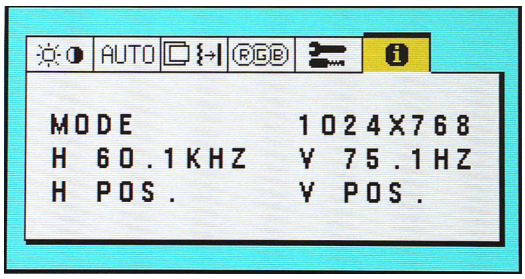
   * The product shall be regarded as an NG item unless the LED is lit in amber even when the AC power cable is inserted in a wall outlet or the POWER key ⏻ is pressed.

2) Enter an input of Signal 20. Confirm that the LED is lit in green.

   * The product shall be regarded as an NG item unless the LED is lit in green at that time.

3) Press the NEXT. ADJUST or Control key, and confirm that an OSM is displayed in the LCD screen.

Information



Supplementary description

The horizontal and vertical frequency values displayed involve the errors of ±2kHz for horizontal and ±2kHz for vertical.

Indicate the Input signal timing mode.

Resolution /Frequency

▸ (right)	: No Function
◂ (left)	: No Function
+ (plus)	: No function
- (minus)	: No function
NEXT	: Change tag to next right direction
RESET	: No function.
EXIT	: Jump to main menu

Press RESET + ◂ + ▸ at the same time under the condition of the above OSM to enter Factory mode.

3.2 Factory mode

Mention the contents of the service menu letter

Warning message



Color of frame

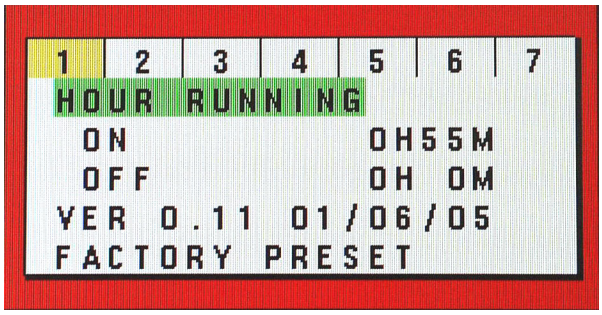
Service: Cyan

How to enter Service mode

1. Open Information menu (Signal information)
2. Press “◀”+”▶”+”RESET”
3. Indicate warning message
4. Press Next then enter Service mode

   Or Press EXIT to close OSM menu

   OSM Flame is CYAN



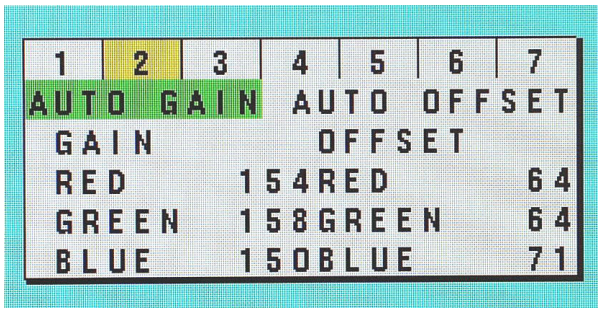
How to use Service mode

Page1:

The page can check user’s HOURS RUNNING and system total’s HOURS RUNNING.

1. Press “NEXT” to move cursor on HOURS RUNNING.
2. Press “◀ (LEFT)” + “RESET” at the same time can check HOURS RUNNING.
3. Press “◀ (LEFT)” or “▶ (RIGHT)” to move cursor on FACTORY PRESET.
4. Press “RESET” + “▶ (RIGHT)” can reset all function to initial (include user’s HOURS RUNNING and AUTO INFORMATION).

Page2:



The page can adjust RGB offset and gain.

1. Press ◂ or ▸ to move cursor on AUTO GAIN or AUTO OFFSET.
2. Press “+” or “-“ can auto balance.

How to exit Service mode

Press exit key and then close OSM menu (Service mode)

When turn off monitor in Service mode, it should exit from Service mode.

If unplug a power cord in Service mode, it should exit from Service mode too.

: Hours Running

Indicate On time and Off mode (power save) time(hours, minutes).

There are two timers.

The one can be cleared and the other cannot be cleared.

Following Key operation changes the timer indication.

Select Hours Running item

RIGHT+ RESET: Indicate timer which can be cleared

LEFT+ RESET: Indicate timer which cannot be cleared

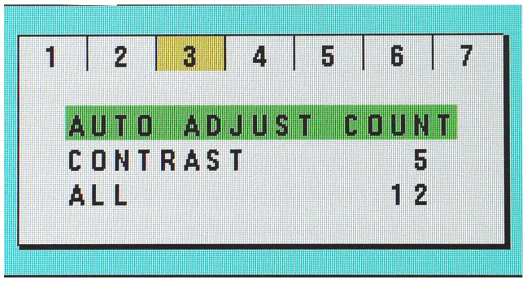
LEFT+RIGHT+RESET : Timer is cleared

The indicated number should be changed every 5minutes.

On mode time xxxH xxM

Off Mode time xxxH xxM

Page 3



: F/W ver Indicate F/W version

: Auto ADJUST COUNT

Indicate total time that Auto Adjustment (Contrast, Auto adjust) is executed.

Value should be cleared by factory reset in Service mode menu.

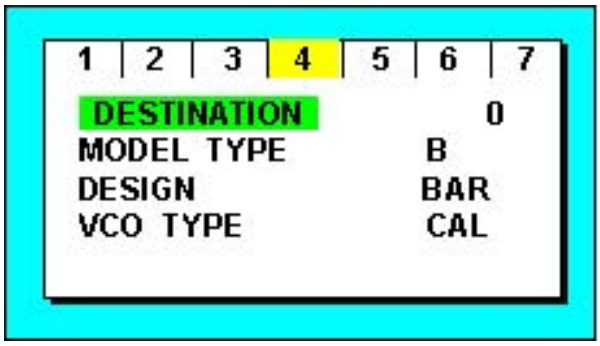
: OSM Menu Change

Bar or Number of User menu should be selected in Factory mode menu.

: Factory Preset in Factory mode

When proceed key is pushed at Factory preset, Hours running and auto count is cleared.

Page 4



In this page, it is possible to modify the display style of the OSM menu.

1) Press the ◀ (left) key or the ▶ (right) key to adjust the cursor to the DESTINATION, MODEL TYPE, DESIGN, or the VCO TYPE.

2) When the + or - key is pressed, each display style is changed.

DESTINATION (The OSM menu for each destination is changed.)

0: Overseas : Shipment setting

1: (Reserve)

2: Domestic

MODEL TYPE (The MODEL name of MONITOR INFO. is changed.)

B : LCD1550V : Shipment setting

BK : LCD1550V BK : Shipment setting

M3X : RDT153X

DESIGN (The adjusting value displayed is modified into a bar or a numeral.)

BAR: The adjusting value is displayed in a bar. : Shipment setting

DBG: The adjusting value is displayed in numerals. (Debug)

VCO TYPE

CAL : Shipment setting

FIX : (For evaluation)

When finishing the factory mode:

1) When the EXIT key is pressed, the OSM menu (factory mode) is closed and the factory mode is finished.

2) If the monitor power supply is turned off in the factory mode, the factory mode is finished.

3) Even when the power cord plug is pulled out of the wall outlet in the factory mode, the factory mode is also finished.

3.3 Factory reset and auto contrast

1) To display information of OSM on LCD screen.

2) Press “RIGHT” + “LEFT” + “RESET” key at same time.

3) LCD screen display warring message.



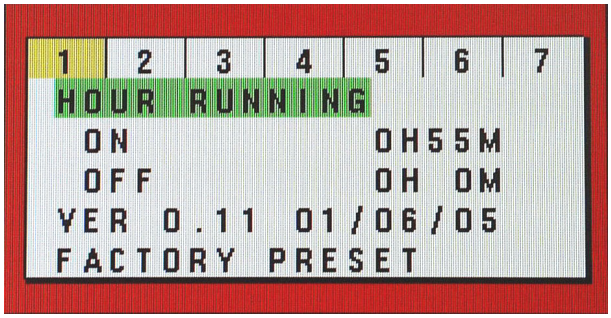
4.1) Press “exit” key will exit factory mode.

4.2) Press “NEXT” key will enter factory mode.



5) When enter factory mode and move make to **FACTORY PRESET.**

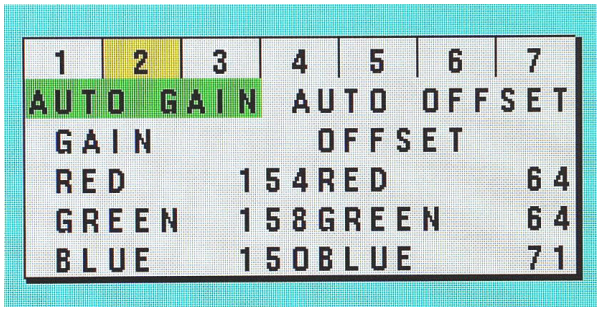
6) Press “PLUS” or “MINUS” key and will clear HOURS RUNNING, AUTO INFORMATION and EEPROM etc.



7) Move make to item 2 and change input video pattern to gray scale.

8) Move make to **AUTO GAIN** and **AUTO OFFSET.**

9) Press “PLUS” or “MINUS” key can adjust RGB offset and gain.



10) Exit factory mode press “exit” key.

4. VG-829 Setting Method

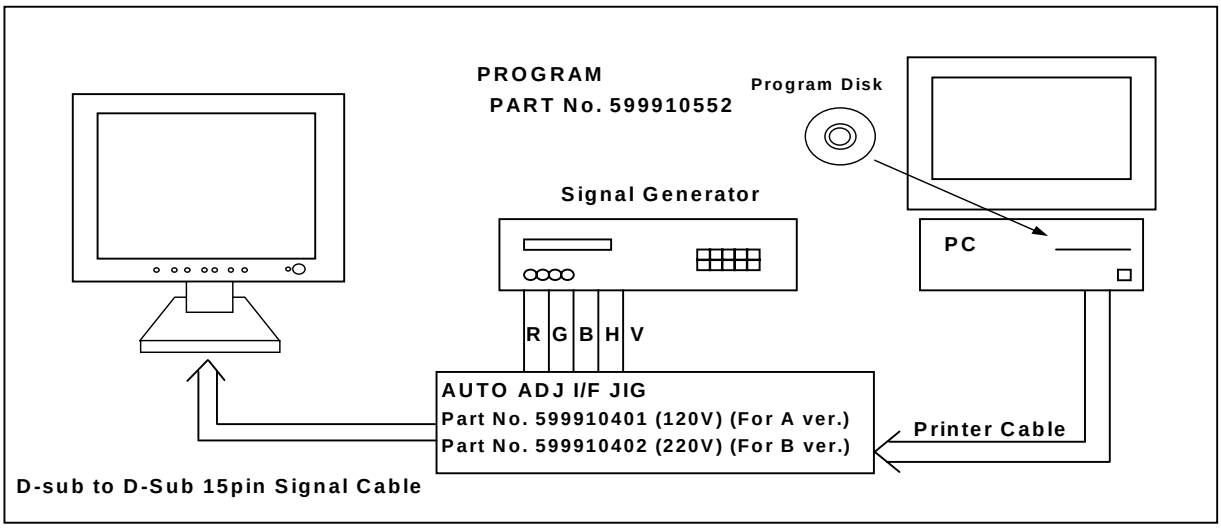
Signal		VG-829				
Mode		20				
H	DOT CLOCK [MHz]	78.75				
	TOTAL [DOT]	1312				
	DISP [DOT]	1024				
	SYNC PULSE [DOT]	96				
	BACK [DOT]	176				
	HDstrat [DOT]	0				
	HDwidth [DOT]	0				
V	INTERLACE	NON				
	TOTAL [H]	800				
	DISP [H]	768				
	SYNC PULSE [H]	3				
	BACK PORCH [H]	28				
	EQPfp [H]	0				
	EQPbp [H]	0				
	SERRATION [H]	OFF				
	EDP [H]	OFF				
	VDs [H]	0				
	VBf [H]	0				
OUTPUT	OUTPUT MODE	ANALOG				
	NRZ/RZ	NRZ				
	CV					
	HS	POS				
	VS	POS				
	CS	NEG				
	HD	NEG				
	VD	NEG				
	RGB	POS				
	HT	POS				
	C	NEG				
	VIDEO	0.70V				
	Set-up	0.00V				
	Sync	0.30V				
PAT SEL		GRAY				
CHARA PATTERN	Format Code Font Cell	1 82 16*16 16*16				
GRAY	Direction:0	L0:0 L1:17 L2:34 L3:51 L4:68 L5:85 L6:102 L7:127 L8:143 L9:159 LA:175 LB:191 LC:207 LD:223 LE:239 LF:255				

INSPECTION

1. Inspection of PLUG & PLAY communication and OSM "MONITOR INFORMATION" for model name/ serial number

1.1 A construction of System

This system should be connected as shown below.



1.2 Input Signal

Horizontal synchronization frequency : No specified.

Vertical synchronization frequency : No specified.

1.3 Programs required

PNP.EXE

PNP.INI

08109741.MDL

EDID550V.TXT

1.4 Operational procedures

1. Start PNP.EXE from DOS mode or DOS pronto of Windows.
2. Operation key assignment
   • Determine the operation mode with the F1 ~ F9 and ESC keys.
   F1: (Select Model) Setting file changeover for respective models.
   F4: (Read) EDID data for reading.
   F5: (Write Input 1) It is not used in this model.
   F8: (Write Input 2) EDID data is written in.
   F9: (Write ALL) It is not used in this model.
   ESC: (EXIT) End of program.
3. Press the F1 key and enter an input of setting file for the related model. Press the Enter key.

File name	Model
08109741	LCD1550V

4. Writing and inspection procedures
   a. Press the F8 key (Write Input 2).
   b. Since the screen is changed over to the one that waits for an input of serial number, examine the serial number of the set, enter it from the keyboard, and press the Enter key.

   The message of the screen:

   Model Name "LCD1550V"
   Input serial number (Enter only: Use previous number)

   c. EDID data writing and inspection

   According to the screen commands, make connections for the connectors and change over the signals.

   The message of the screen:

   Input 1 File 1 set V 42Hz N (Hit any key)

   Notes: This message does not need to be followed. The D-SUB connector is connected and arbitrary signals a received.

   When the Enter key is pressed, the write and inspection of EDID data are performed.

   d. Upon normal completion, a screen display is presented "OK".

   e. Serial number writing for the OSM “MONITOR INFORMATION”.

   * The signal cable of equipment is connected with a signal generator.
   * It goes into the factory mode and returns to the user mode, without carrying out anything.
   * A Display “MONITOR INFORMATION.” of the OSM, and confirm that the model name (LCD1550V or LCD1550V BK) and serial number have been correctly written.

1.5 EDID data file

The EDID data file text is shown below. When you write or inspect EDID for this monitor, the following table can be used.

file name : EDID550V.TXT

	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	C6	65	01	01	01	01
10	25 *1)	0B *2)	01	03	08	1E	17	78	EA	7E	A5	A0	58	4E	96	25
20	1E	50	54	BF	EE	00	01	01	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	C3	1E	00	20	41	00	20	30	10	60
40	13	00	30	E4	10	00	00	1E	00	00	00	FD	00	37	4B	1F
50	3C	08	00	0A	20	20	20	20	20	20	00	00	00	FC	00	4E
60	45	43	20	4C	43	44	31	35	35	30	56	0A	00	00	00	FF
70	00	31 *3)	35	30	30	30	30	31	49	41	0A	20	20	20	00	49 *4)

Table 1.5 Data list

Note 1: address 10h — Week of manufacture = Month of manufacture × 4

Note 2: address 11h — Year of manufacture - 1990

Notes 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.

2. External inspection on the LCD module

Inspection condition is approximately 15-50cm

Viewing angle is normal to the LCD panel.

Ambient temperature is in the room temperature.

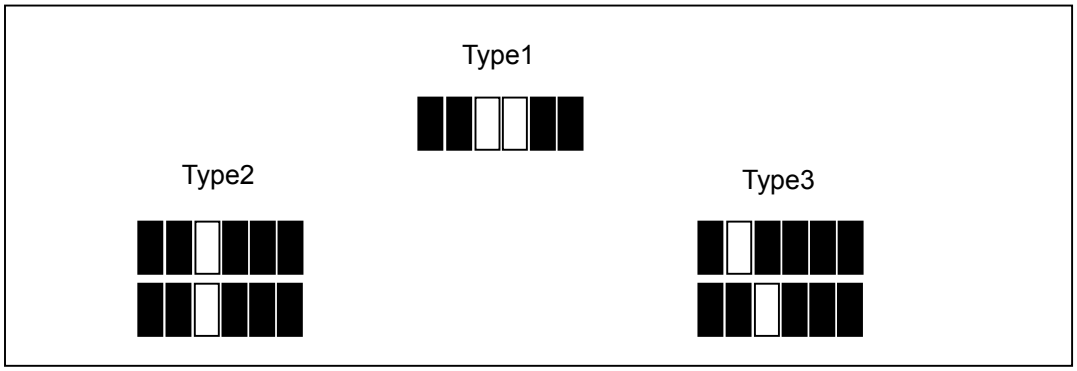
Ambient illumination is 300-500Lux.

Display characteristics

	Defect type	Criteria
Visual defect D: Diameter N: Number W: Horizontal width L: Vertical high	Dark / Bright Spot Circular Foreign Material	0.2mm≤D<0.5mm N≤4
	Bright or Dark Line Foreign Material	0.05mm≤W<0.2mm 0.3mm≤L≤3mm N≤4
	Polarizer / Linear Scratch	0.01mm≤W<0.2mm 1.0mm≤L≤10mm N≤3
	Polarizer – bubble / Peeling	0.15mm≤D<0.25mm N≤4
	Maximum Allowable Defect Count All Types	N≤7
Electrical defect N: Number	Bright Dot Random	N≤4
	Bright Dot 2 Adjacent	N≤2
	Dark Dot Random	N≤4
	Dark Dot 2 Adjacent	N≤3
	Dark Dot 3 or More Adjacent	N=0
	Total Bright and Dark Dots	N≤4
	Minimum Distance Between Bright Dots	≥15mm
	Minimum Distance Between Dark Dots	≥10mm
	Minimum Distance Between Bright Dots and Dark Dots	≥10mm

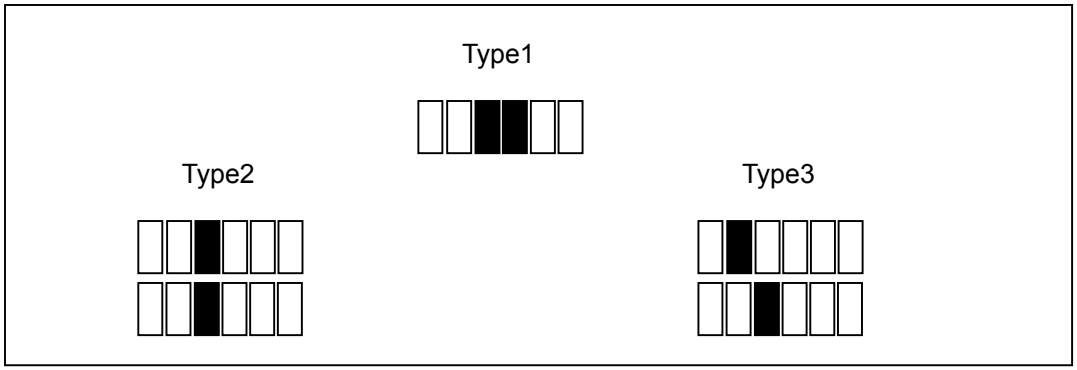
Note(1): Bright dot defect description

Two adjacent



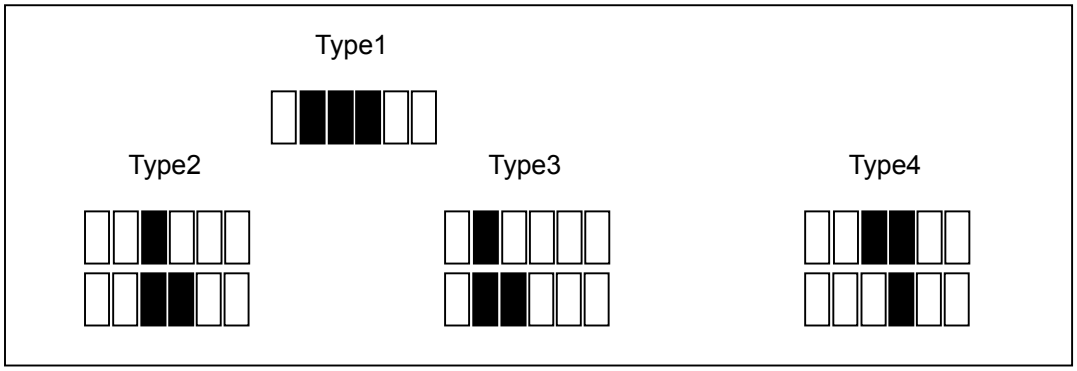
Note(2): Dark dot defect description

Two adjacent



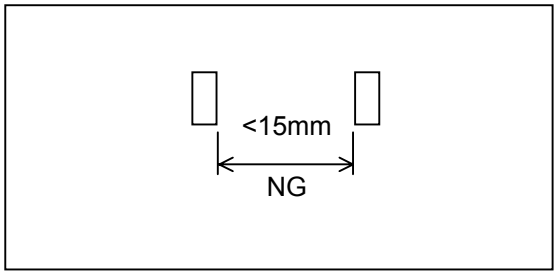
Note(3): Dark dot defect description

Three adjacent

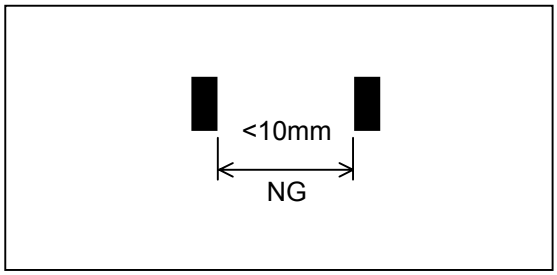


Not(4): Minimum distance between dot defect

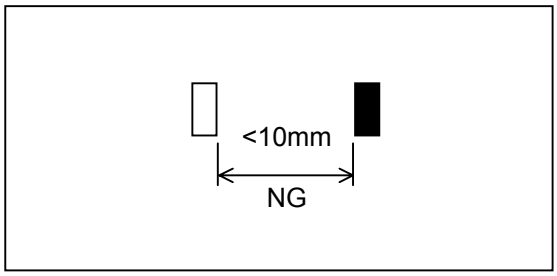
Bright dot to bright dot



Dark dot to dark dot



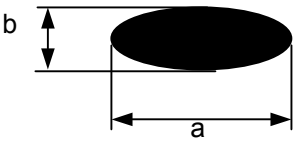
Bright dot to dark dot



Note(5): “Average Diameter” description

Dusts would be judged by “Average Diameter” under vertical high ≥0.1mm and horizontal width ≥0.1mm condition.

Average Diameter D=(a+b)/2



3. Safety Tests

Perform the following inspection tests in accordance with the standards set forth in Common Electrical Safety Inspection Standards for Information Processing Device & Office Equipment (DSQS-009-103).

Destination :	World wide
Applicable Regulations :	UL1950, CSA C22.2 No 950 (C-UL), DHHS, TUV (EN60950), CE, PTB
Classification :	Class I device (with safety ground), movable
Ratings :	AC 100-240V, 50/60Hz,
	Unless otherwise specified, rating voltage is 240V.

3.1 Ground Continuity

(It is applied to the PSU built-in set.)

Perform the test at the points indicated below and make sure that the ground continuity values are within the prescribed range. (This test is to be performed before the electric strength test.)

1) The Ground Line of inlet shall be satisfied indicated below.

a) The color of Ground Line is spiral of green and yellow.

b) The Ground Line is connected at specified point on the chassis base with specified screw.

2) Measurement Point- Between the ground terminal of power supply cord and the chassis Screw

The standard for a decision : Less than 0.1ohm. (Input current 25A)

3.2 Electric Strength

(It is applied to the PSU built-in set.)

Perform the tests at the points indicated below and make sure that there is no dielectric breakdown or flashing.

Measurement Points

Make measurements between the power supply terminals (other than the ground terminal) and each of the following points : (See note below.)

Signal cable connector shell

Chassis base

Note : The two terminals other than the ground terminal (power supply cord) must be shorted out.

The standard for a decision : Less than 10mA. (Input voltage 1500V AC)

3.3 Leakage Current

(It is applied to both the PSU built-in set and the set with AC adapter.)

Perform the tests at the points indicated below and make sure that the leakage current is within the prescribed range. (This test must be performed after the electric strength test.)

Measurement Points

Make measurements between the terminals of AC inlet (other than the ground terminal) and each of the following points :

Signal cable connector shell

Chassis base

Note : Power switch status ; "ON" and "OFF" condition.

The standard for a decision : Less than 1.5 mA. (Input voltage 255V AC (60Hz))

Measurement condition : The leakage ammeter builds in the resistor of 1500 ohm, and uses a thing with the bypass condenser of 0.15uF.

3.4 Insulation Resistance

(It is applied to the PSU built-in set.)

Perform the tests at the points indicated below and make sure that the insulation resistance is within the prescribed range. (This test must be performed after the electric strength test.)

Measurement Points

Make measurements between the power supply terminals (other than the ground terminal) and each of the following points : (See note below.)

Signal cable connector shell

Chassis base

Note : The two terminals other than the ground terminal (Power supply cord) must be shorted out.

The standard for a decision : More than 30Mohm. (Input voltage 500V DC)

TROUBLE SHOOTING

TABLE OF CONTENTS

Page

1. No display of screen (Screen is black, color of LED is amber) ---------- 6-2

2. Nothing displays on screen (Screen is black, color of LED is green) ---------- 6-3

3. Checking the back light unit ---------- 6-6

4. Abnormal screen ---------- 6-7

5. No OSM display ---------- 6-9

6. Abnormal Auto adjustment ---------- 6-10

7. Abnormal plug and play operation ---------- 6-11

7.1 Abnormal DDC2 ---------- 6-11

8. Checking the interface circuit of sync signal ---------- 6-12

8.1 Checking the control circuit of horizontal sync pulse ---------- 6-12

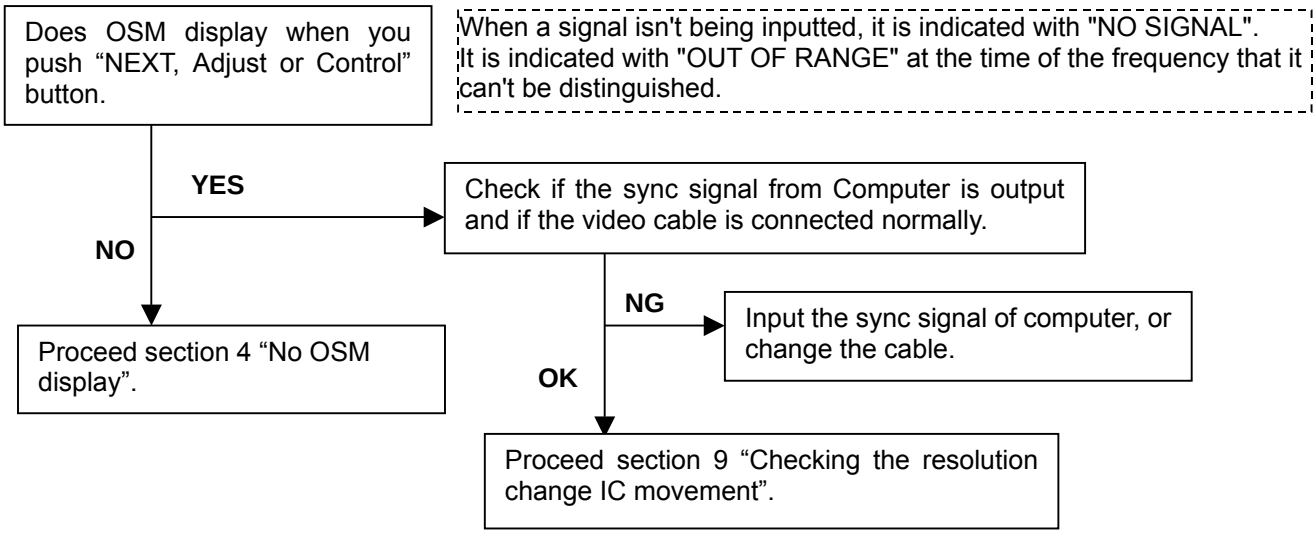
8.2 Checking the control circuit of vertical sync pulse ---------- 6-13

9. Checking the resolution change IC movement ---------- 6-14

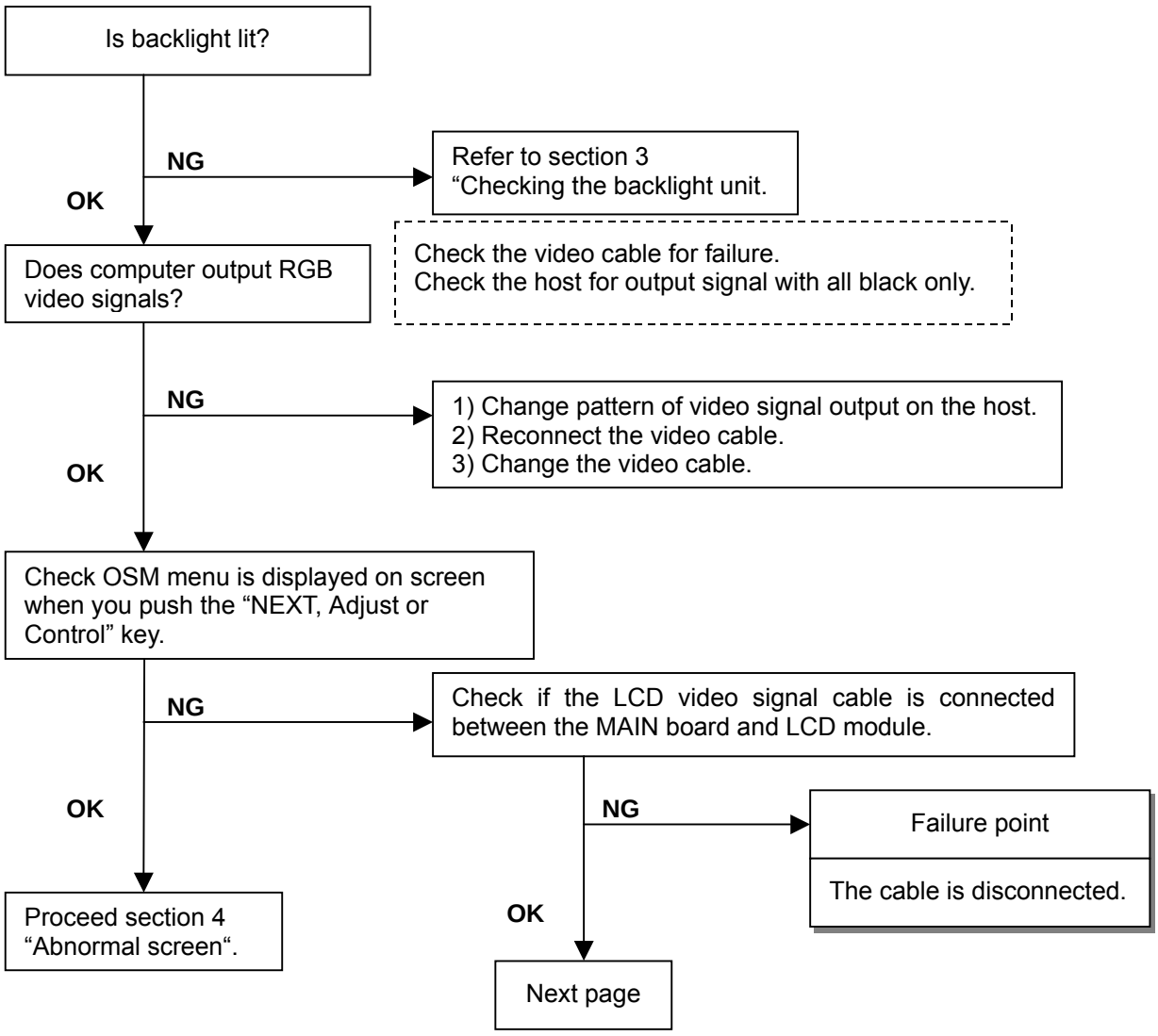
10. No power on ---------- 6-15

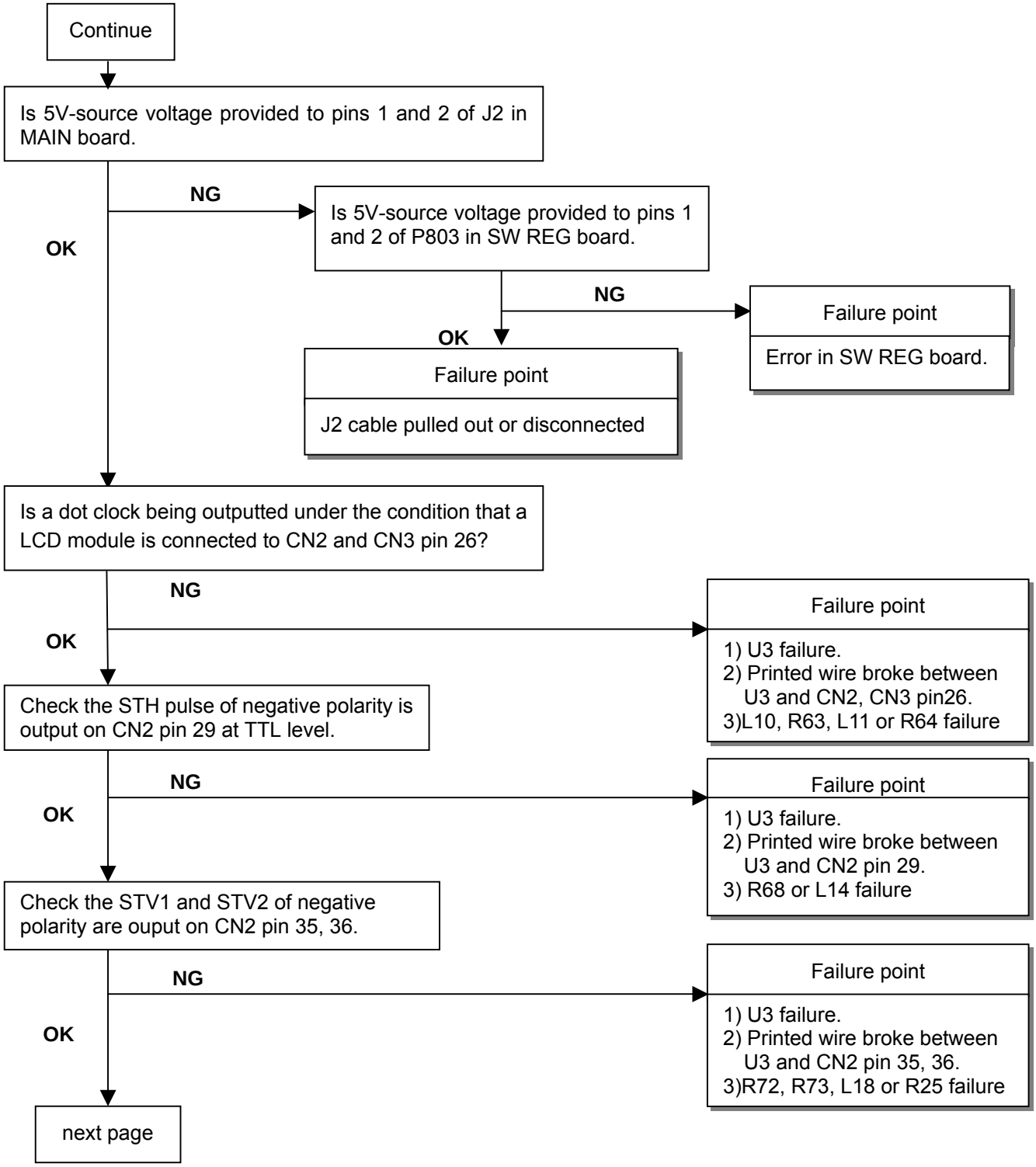
11. Checking the operation of CPU ---------- 6-16

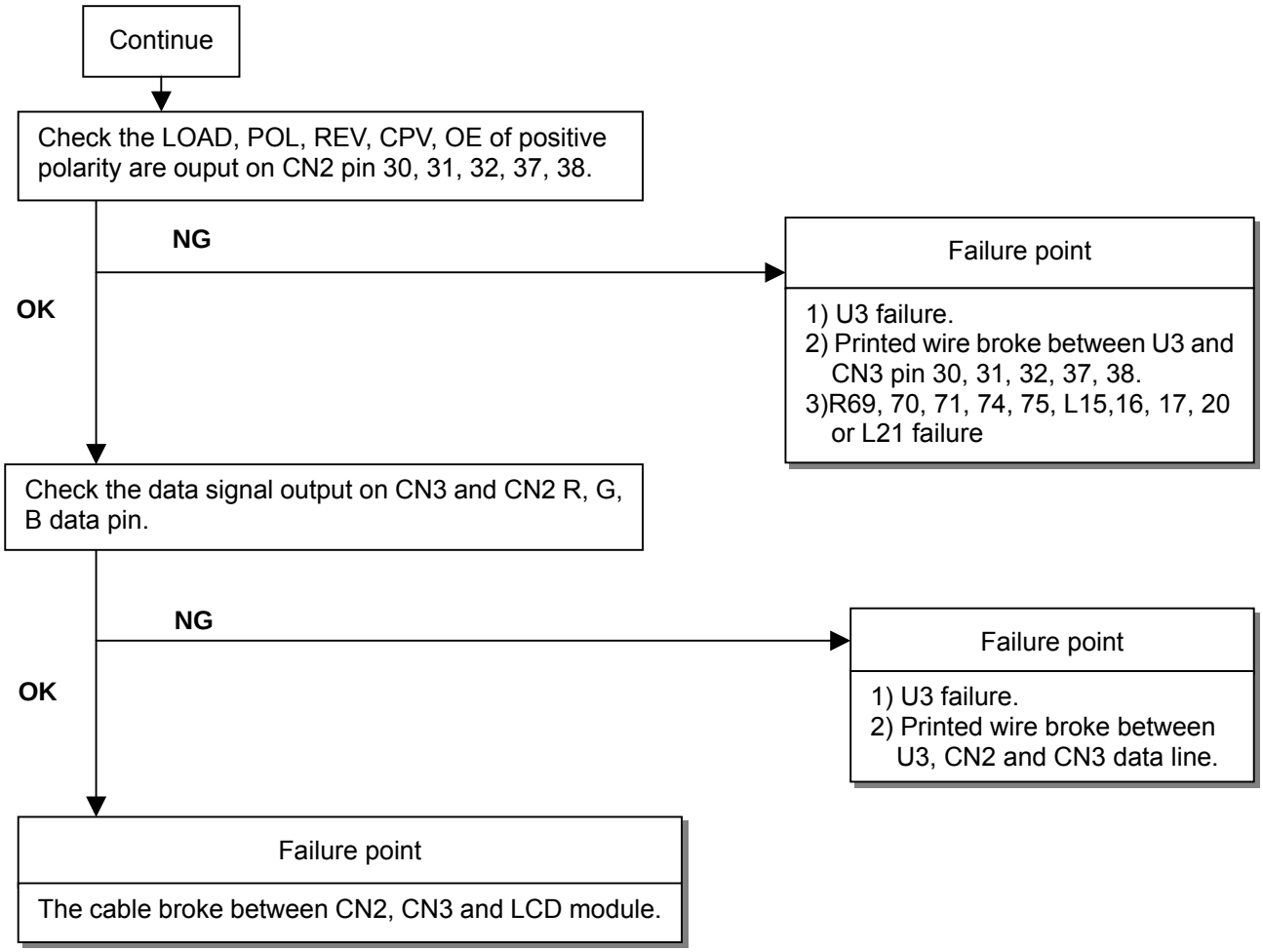
1. No display of screen (Screen is black, color of LED is amber)



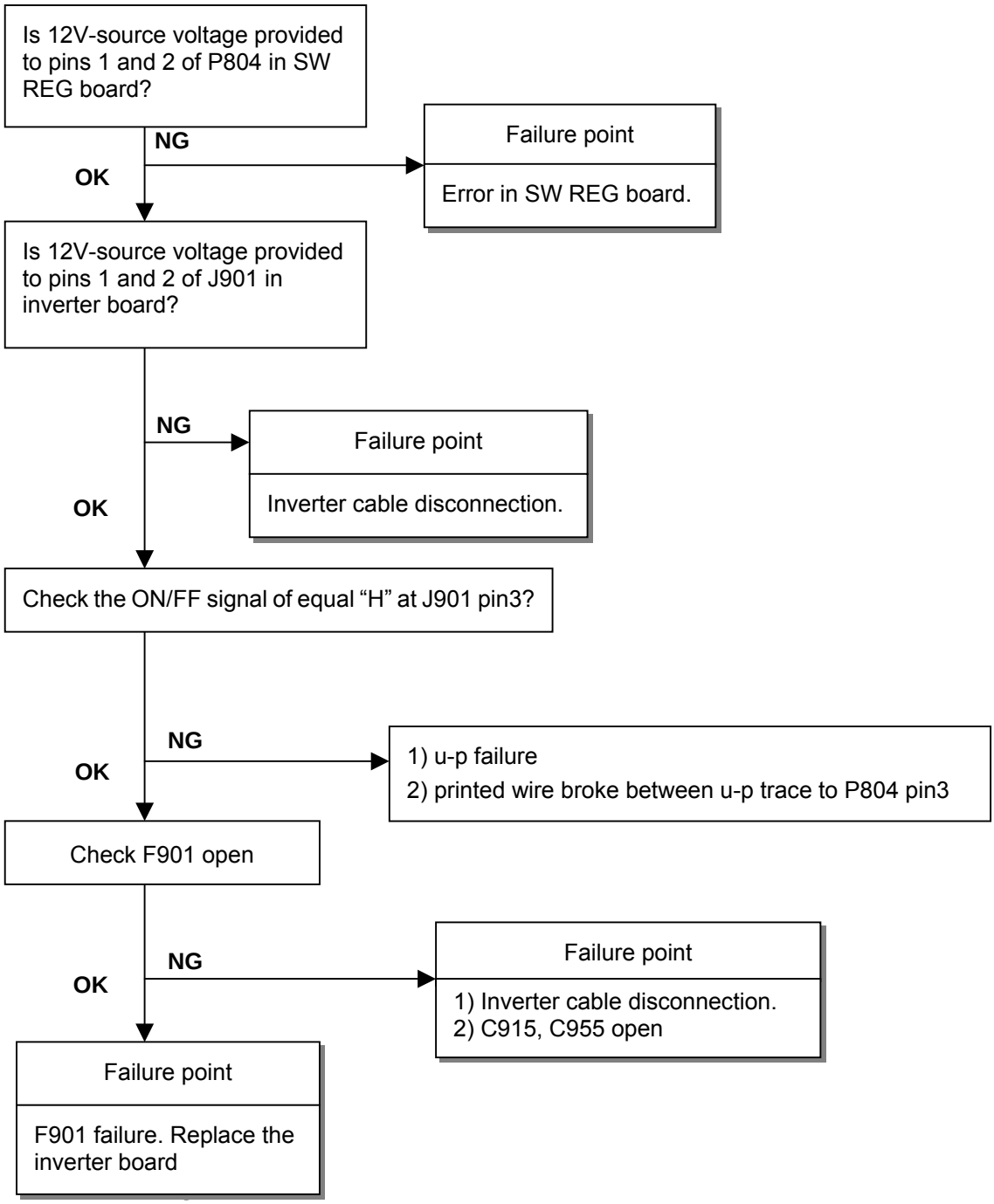
2. Nothing displays on screen (Screen is black, color of LED is green)



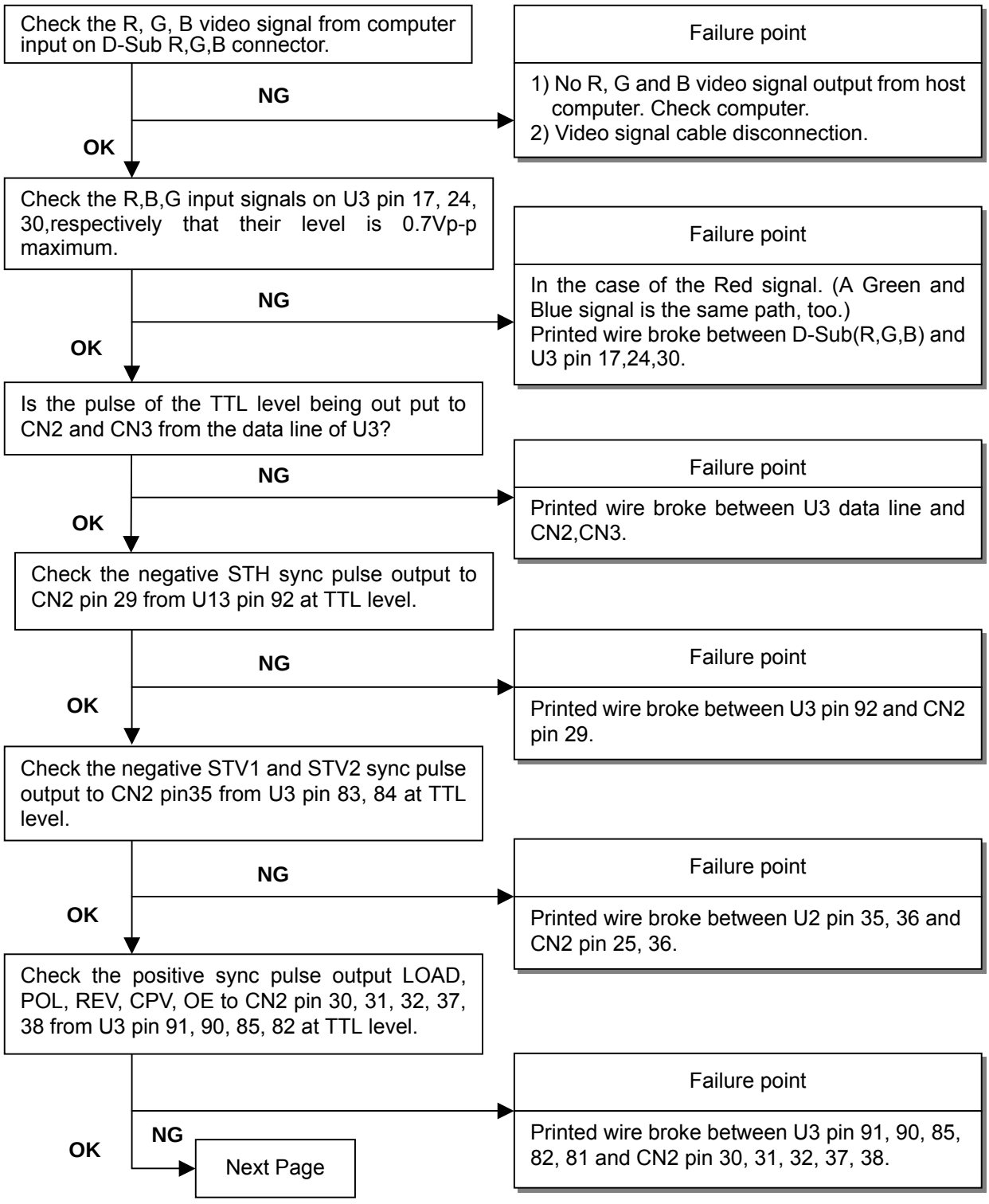

Continue
Is 5V-source voltage provided to pins 1 and 2 of J2 in MAIN board.
NG
OK
Is 5V-source voltage provided to pins 1 and 2 of P803 in SW REG board.
NG
OK
Failure point
Error in SW REG board.
Failure point
J2 cable pulled out or disconnected
Is a dot clock being outputted under the condition that a LCD module is connected to CN2 and CN3 pin 26?
NG
OK
Failure point
1) U3 failure.
2) Printed wire broke between U3 and CN2, CN3 pin26.
3)L10, R63, L11 or R64 failure
Check the STH pulse of negative polarity is output on CN2 pin 29 at TTL level.
NG
OK
Failure point
1) U3 failure.
2) Printed wire broke between U3 and CN2 pin 29.
3) R68 or L14 failure
Check the STV1 and STV2 of negative polarity are ouput on CN2 pin 35, 36.
NG
OK
Failure point
1) U3 failure.
2) Printed wire broke between U3 and CN2 pin 35, 36.
3)R72, R73, L18 or R25 failure
next page

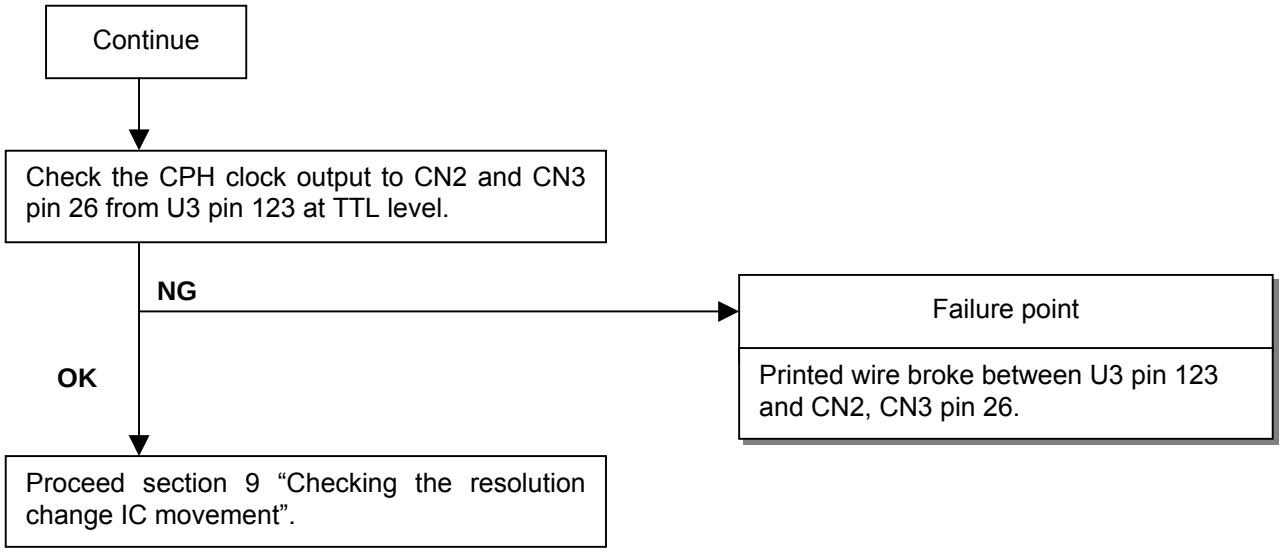

Continue
Check the LOAD, POL, REV, CPV, OE of positive polarity are ouput on CN2 pin 30, 31, 32, 37, 38.
NG
OK
Failure point
1) U3 failure.
2) Printed wire broke between U3 and CN3 pin 30, 31, 32, 37, 38.
3)R69, 70, 71, 74, 75, L15,16, 17, 20 or L21 failure
Check the data signal output on CN3 and CN2 R, G, B data pin.
NG
OK
Failure point
1) U3 failure.
2) Printed wire broke between U3, CN2 and CN3 data line.
Failure point
The cable broke between CN2, CN3 and LCD module.

3. Checking the back light unit

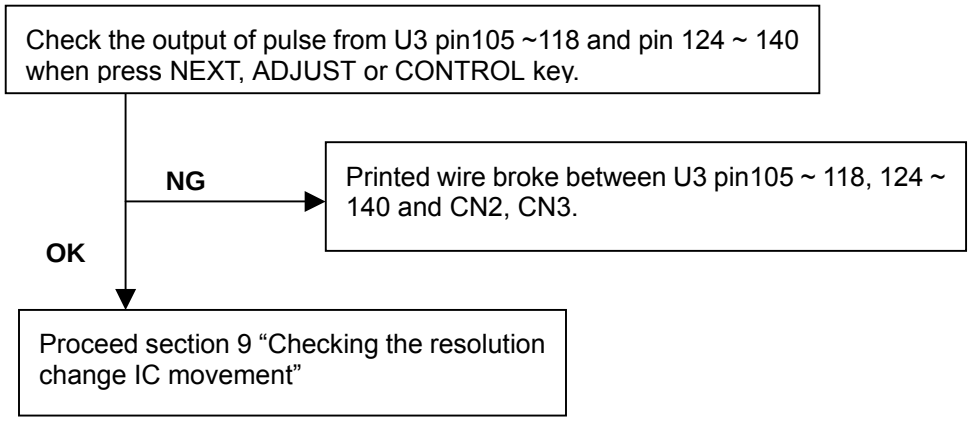


4. Abnormal screen

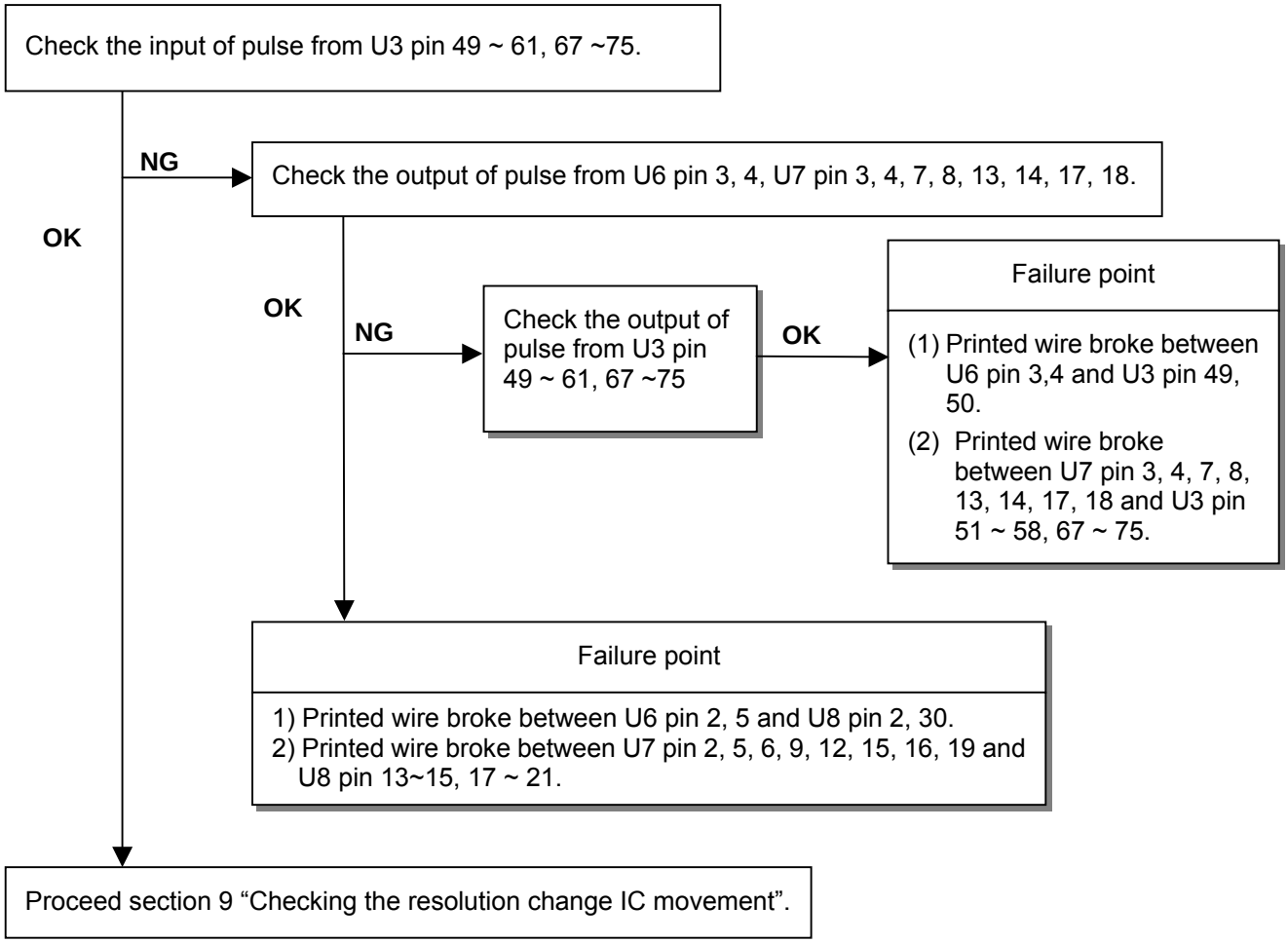



Continue
Check the CPH clock output to CN2 and CN3 pin 26 from U3 pin 123 at TTL level.
NG
OK
Failure point
Printed wire broke between U3 pin 123 and CN2, CN3 pin 26.
Proceed section 9 “Checking the resolution change IC movement”.

5. No OSM display

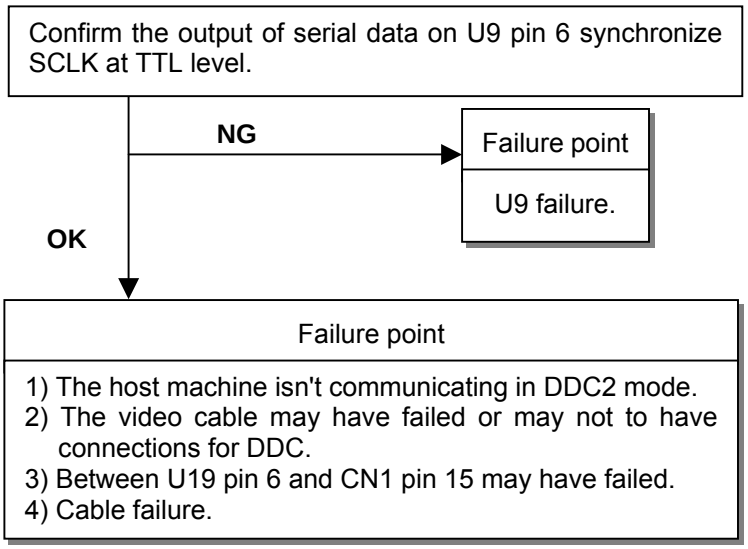


6. Abnormal Auto adjustment



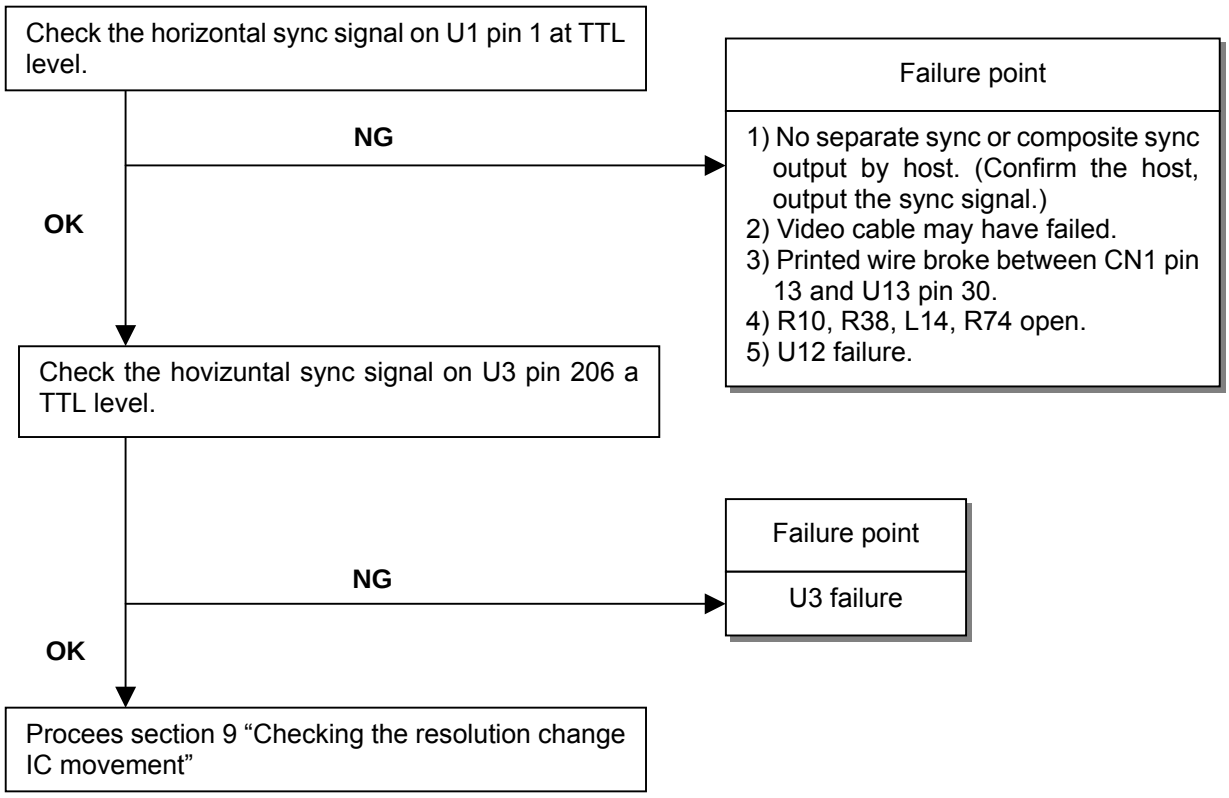
7. Abnormal plug and play operation

7.1 Abnormal DDC2

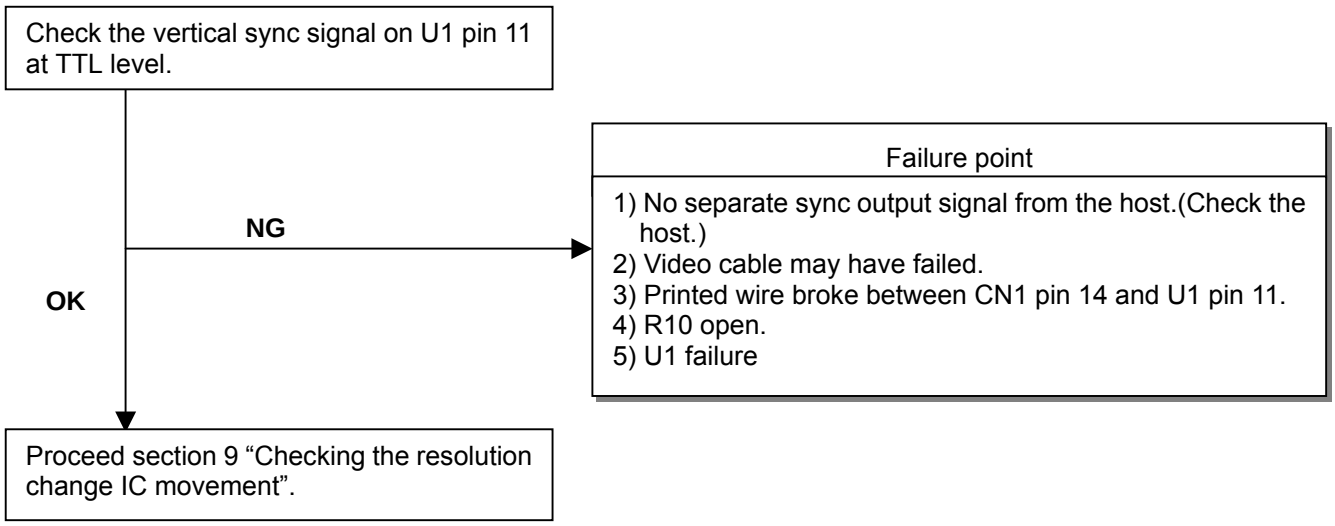


8. Checking the interface circuit of sync signal

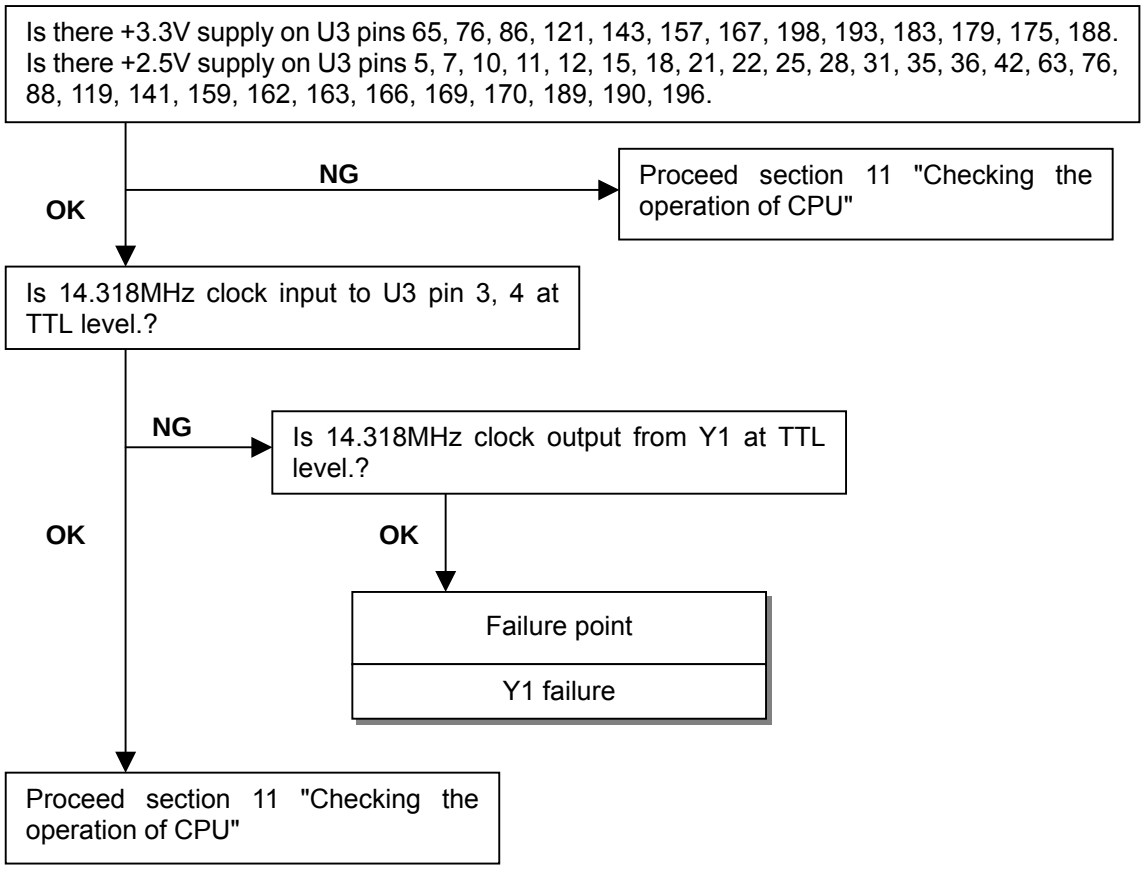
8.1 Checking the control circuit of horizontal sync pulse



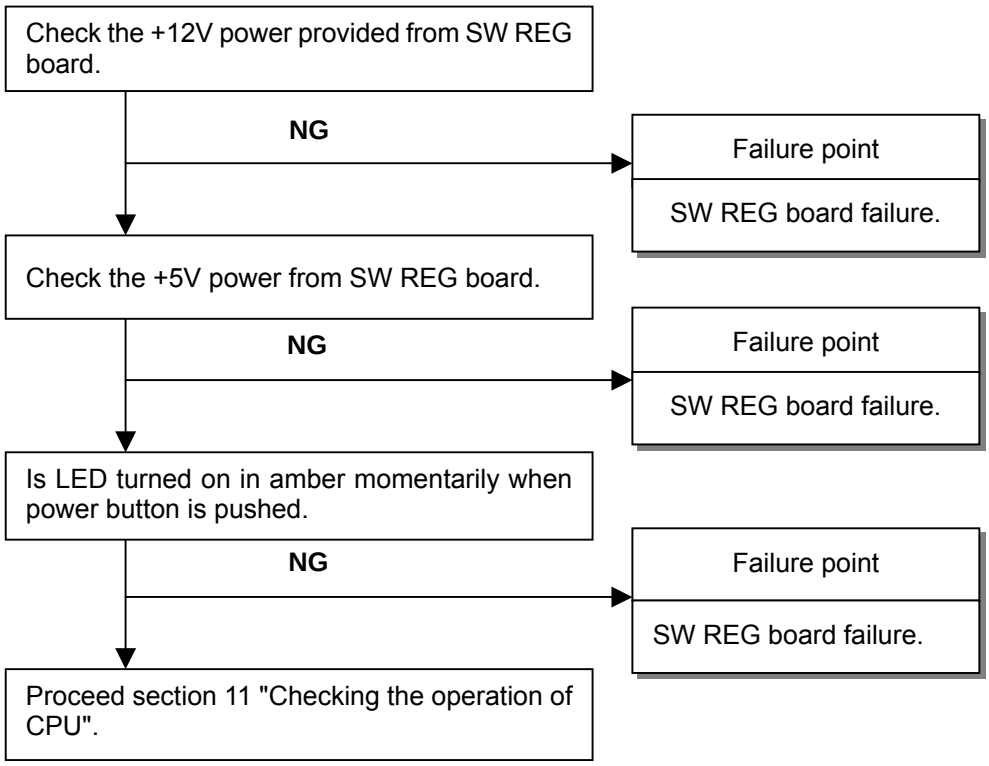
8.2 Checking the control circuit of vertical sync pulse



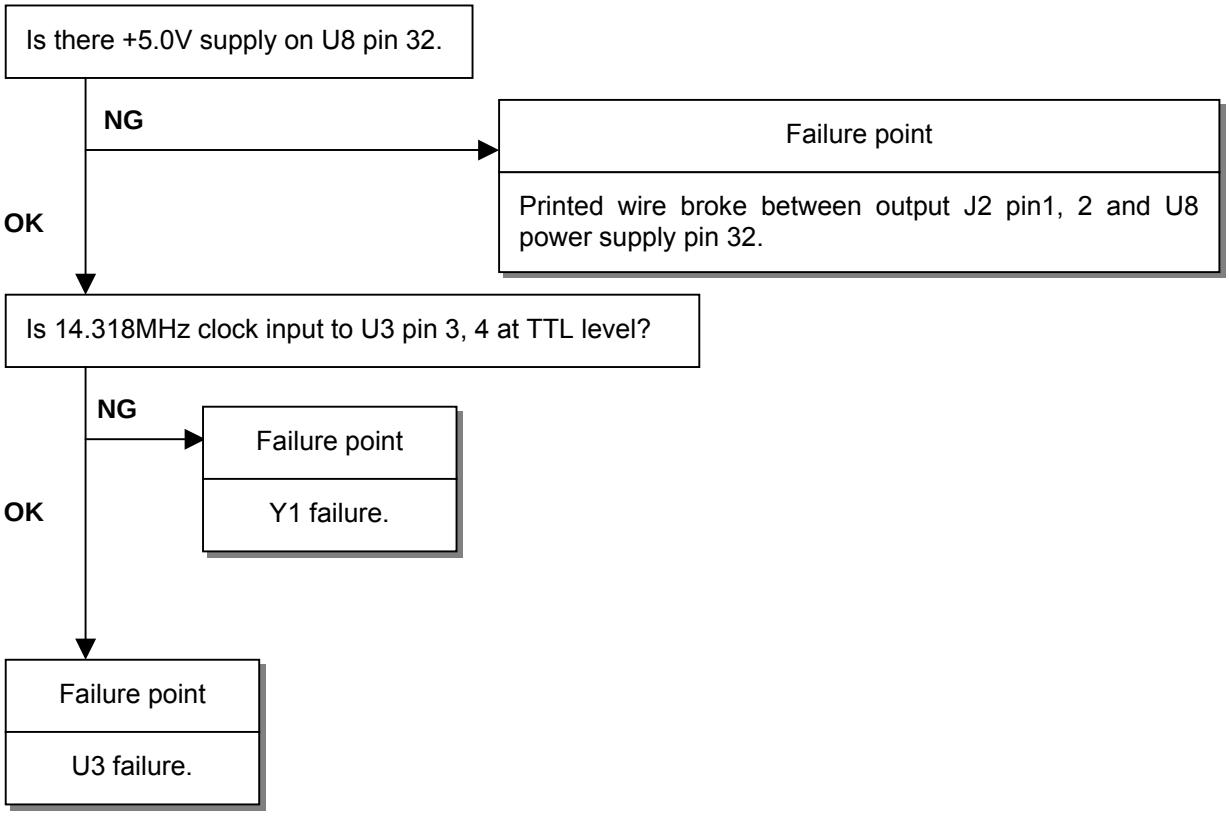
9. Checking the resolution change IC movement



10. No power on



11. Checking the operation of CPU



CIRCUIT DESCRIPTION

TABLE OF CONTENTS

Page

1. Power Circuit ---------- 7-2
1.1 Power input block ---------- 7-2
1.2 Power control block ---------- 7-2

2. Microcomputer Control Circuit ---------- 7-2
2.1 Clock circuit ---------- 7-2
2.2 Microcomputer port circuit ---------- 7-2
2.3 PIO (General-purpose port) ---------- 7-2

3. Input Image Enlargement Display Circuit ---------- 7-3
3.1 Jag-D ---------- 7-3

4. EEPROM Control Circuit ---------- 7-3
4.1 Data memory ---------- 7-3

5. Auto-adjuster circuit control ---------- 7-3
5.1 Video level adjusting function ---------- 7-3

1. Power Circuit

1.1 Power input block (Circuit diagram: SW REG board)

A power supply for internal 12V and 5V are gained from the power connector through the voltage supervisory circuit.

1.2 Power control block

1.2.1 Basic power control (Circuit diagram: MAIN Board)

SW REG board is used to generate the system power. It have built in PWM controllers to provide two voltage output, one is provided for microprocessor or other TTL level IC (+5V) etc., the other one is provided for the power of inverter (+12V). These two supply power used the same oscillation frequency, the same start-up circuit, and the same protection circuit, so they can avoid the interference each other.

1.2.2 3.3V power control (Circuit diagram: MAIN Board P.4/5)

The U11,U10 are DC converter for the 3.3V power system. It output fixed 3.3V. The U16 is a DC converter for 2.5V power system. It out fixed 2.5V.

3.3V power are fed to S9050,and panel. 2.5V power is only fed to S9050.

1.2.3 LCD panel 3.3V power control (Circuit diagram: MAIN Board P.5/5)

Panel power control used Q6 and U15 from S9050(pin_94) PENVDD.

When the PENVDD stays at the high level, the Panel voltage is 3.3V .

When the PENVDD stays at the low level, the Panel voltage is 0V .

2. Microcomputer Control Circuit

2.1 Clock circuit (Circuit diagram: MAIN Board P.3/5)

The Y1 is a crystal the microcomputer. It generates an output of 14.318MHz.

2.2 Microcomputer port circuit (Circuit diagram: MAIN Board P.3/5 and P.1/5)

S9050 has an embedded Microcontroller link to U8 Flash Rom.

2.2.1 I^2C buses

U3 (PIN40) (GPIO2) SDDAT Serial data
U3 (PIN39) (GPIO1) SDCLK Serial clock

This is an I^2C serial communication bus and is used for R or W data communication of U2 and U9.

2.2.2 S9050 and Flash ROM communication buses

U3 (PIN75) MCAD0
U3 (PIN74) MCAD1
U3 (PIN73) MCAD2
U3 (PIN72) MCAD3
U3 (PIN71) MCAD4
U3 (PIN70) MCAD5
U3 (PIN69) MCAD6
U3 (PIN68) MCAD7
U3 (PIN67) MCA8
U3 (PIN57) MCA9
U3 (PIN56) MCA10
U3 (PIN55) MCA11
U3 (PIN54) MCA12
U3 (PIN53) MCA13
U3 (PIN52) MCA14
U3 (PIN51) MCA15
U3 (PIN50) MCAD16
U3 (PIN49) MCAD17
U3 (PIN61) CS0#
U3 (PIN60) MCWR#
U3 (PIN59) MCRD#

2.3 PIO (General-purpose port) (Circuit diagram: MAIN Board P.3/5)

2.3.1 Key scan status

U3 GPIO20 (pin 203) Key2-1 and GPIO 17 (pin 80) Key1-2 output pulses continuously. If Keys are pressed, microcomputer will detect U3 signal to judge which key is pressed.

2.3.2 D-sub cable status signal

U3 GPIO5 (PIN96) CABLE-DETECT

This is an IN/OUT supervisory signal for the D-sub cable.

It is set at the low level when the cable is connected.

2.3.3 LED control

U3 GPIO3 (PIN41) LEDY
U3 GPIO19 (PIN78) LEDG

These signals are used for the LED lighting control.

When GPIO3 is high the LEDY lit and GPIO19 is low the LEDG lit.

3. Input Image Enlargement Display Circuit

3.1 S9050 (Circuit diagram: MAIN Board P.1/5)

The S9050 (U3) is controlled through the internal microcomputer.

The S9050 is provided with the analog interface D-SUB (CN1) and the digital interface.

4. EEPROM Control Circuit

4.1 Data memory (Circuit diagram: MAIN Board P.3/5)

The display control data are held by the EEPROM (U9). These display control data are accessed through the IIC bus of the microcomputer.

5. Auto-adjuster circuit control

5.1 Video level adjusting function

Functions of VIDEO RAM are also used for the automatic contrast adjustment (video level adjustment).

For the microcomputer, a maximum value of the entered one screen or the level data in the specified area can be used.

This readout value is used for the black level setting and white level setting (contrast setting) for the VIDEO amplifier.

REPLACEMENT PARTS LIST

The components specified for Model LCD1550V-1(B)

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
*** ICS ***			
U1	SA074140400	79PP0843	S IC SN74LVC14 SOP-14 INV
U10	SA011170300	79PP0842	S IC APL1117-33VC-TR SOT-
U11	SA010840200	79PP0841	S IC AIC1084-33CE TO252-3
U12	SA744066000	79PP0484	SM IC 74HC4066D SOP-14 AN
U13	SA011170200	79PP0626	IC APL1117-25 SOT-223 2.5
U14	SA011170200	79PP0626	IC APL1117-25 SOT-223 2.5
U15	SB923050000	79PP0846	S TR SI2305DS-T1 1P SOT-2
U2	SA024210300	79PP0627	IC EE 128X8 SOP-8 24LC21A
U3	SA090500000	79PP0844	S IC S9050-100 QFP-208
U4	SA007810010	79PP0840	FS781 BZB SOP-8 SPREAD CL
U5	SA008100300	79PP0625	IC LM810M3X-4.38 SOT-23
U6	SA7437382T2	79PP0845	S IC 74HCT373 (SSOP-20)
U7	SA7437382T2	79PP0845	S IC 74HCT373 (SSOP-20)
U8	SA002610000	79PP0839	S IC EPROM PLCC-32 MX26C1
U800	AB008170000	79PP5290	IC LTV-817M-B DIP-4 PHOTO
U801	AB038420404	79PP5021	IC KA3842A DIP-8 PWM
U802	AB0043101T3	79PP5289	IC KA431Z TO-92 REGULATOR
U9	SA024160008	79PP0359	IC EE 16K SO-8 C
U901	SA097410000	79PP0632	IC BA9741F SOP-16 PWM
*** TRANSISTORS ***			
Q1	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q2	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q3	SB7700200T5	79PP0189	TR 2N7002
Q4	SB1103600T3	79PP0055	TR 2SA1036K (SOT-23)
Q5	SB7700200T5	79PP0189	TR 2N7002
Q6	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q801	BB527610001	79PP5310	TRANSISTOR 2SK2761-01MR 1
Q802	BB3014500T7	79PP0735	TR HTL145 NPN TO-92
Q803	BB30945P1T5	79PP5028	TRANSISTOR 2SC945-P
Q804	BC9T169D0T7	79PP5323	SCR BT169D TO-92
Q901	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q902	SB8A12400T1	79PP0635	TR DTA124EK (SM)
Q911	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q912	SB8A12400T1	79PP0635	TR DTA124EK (SM)
Q913	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q914	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q915	SB7700200T5	79PP0189	TR 2N7002
Q916	SB934570000	79PP0636	TR SI3457DV-T1 1P TSOP-6
Q951	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q952	SB8A12400T1	79PP0635	TR DTA124EK (SM)

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
Q953	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q954	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q955	SB7700200T5	79PP0189	TR 2N7002
Q956	SB934570000	79PP0636	TR SI3457DV-T1 1P TSOP-6

*** DIODES ***

BD801	BC3BP08M100	79PP0814	DIO (BR) 2KBP08M PANJIT
D1	SC10QS041T4	79PP0061	DIODE EC10QS04
D2	SC10QS041T4	79PP0061	DIODE EC10QS04
D3	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D4	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D5	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D6	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D801	BC1PS1010T0	79PP0832	DIO PS1010R DO-41 PANJIT
D802	BC1PS1040T0	79PP0833	DIO PS104R DO-41 PANJIT
D803	BC11N4148T8	79PP0258	DIODE 1N4148
D804	BC11N4148T8	79PP0258	DIODE 1N4148
D805	BC11N4148T8	79PP0258	DIODE 1N4148
D806	BC11N4148T8	79PP0258	DIODE 1N4148
D841	BC1ER100200	79PP0736	DIODE ER1002F T0-220F
D842	BC1SB5600N0	79PP0813	DIO SB560-F17 DO-201AD P2
D901	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D910	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D911	SC10QS042T4	79PP0825	S DIO EC10QS04
D912	SC6BAV99100	79PP0826	S DIO ROW BAV99(JE) 2P SO
D950	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D951	SC10QS042T4	79PP0825	S DIO EC10QS04
D952	SC6BAV99100	79PP0826	S DIO ROW BAV99(JE) 2P SO
LED401	BC5G2093000	79PP0331	LED LYG2093 YEL/GRN 3D
ZD1	SC1LC208000	79PP0376	DIODE DALC208SC6 SOT23-6
ZD801	BC4HZ2020T7	79PP0834	ZEN DIO HZ20-2

*** TRANSFORMERS ***

T801	DG100015100	79PP0771	X'FORMER NM555 POWER EFD2
T911	SP051006200	79PP0831	S X'FORM NS555 EFD20 POWE
T951	SP051006200	79PP0831	S X'FORM NS555 EFD20 POWE

*** VARIABLE RESISTORS ***

VR801	CF210010201	79PP5233	VR 1/10W 1KB VZ068TL1-B1K

*** RELAYS & SWITCHES ***

SW1	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW2	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW3	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW4	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW5	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW6	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW7	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
SW8	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720

*** PWB ASSYS ***

CTRLBD	461A7367004	79PP0860	FIRMWARE CTRL/B VL-543 LN
INVBD	453A7567001	79PP0802	PCBA INVERTER/B VI-543 LN
KEYBD	454A5267001	79PP0584	PCBA KEY/B VK-530 LNM555G
POWBD	453A7367001	79PP0801	PCBA POWER/B VP-543 LNS55

*** COILS & FILTERS ***

CORE	DC150010200	79PP0807	CORE KC K5B FS 25.5X4.5X
L1	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L12	SM060000500	79PP0668	SUPPRE NWE STC222B
L13	SM010006300	79PP0447	CHIP MURATA BLM21P300S
L2	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L22	SM010007200	79PP0136	COIL BLM21P221SG
L3	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L4	SM010007200	79PP0136	COIL BLM21P221SG
L5	SM010007200	79PP0136	COIL BLM21P221SG
L6	SM010007200	79PP0136	COIL BLM21P221SG
L7	SM010007200	79PP0136	COIL BLM21P221SG
L8	SM010007200	79PP0136	COIL BLM21P221SG
L801	CL900006805	79PP0769	LINE FILT BJ350 5MH 1.2A
L802	CL900006805	79PP0769	LINE FILT BJ350 5MH 1.2A
L803	DC1510009T0	79PP5278	BEAD NWE W5 3.5X6X1.0+T
L841	CL300003600	79PP0768	CHOK COIL NM555 2.9UH +-3
L842	CL300003600	79PP0768	CHOK COIL NM555 2.9UH +-3
L9	SM010006300	79PP0447	CHIP MURATA BLM21P300S
L911	CL310011600	79PP0613	CHOK COIL NM555 245UH K
L951	CL310011600	79PP0613	CHOK COIL NM555 245UH K

*** ELECTRICAL PARTS & MISCELLANEOUS PARTS ***

CABLAS	DC190020600	79PP0614	CB ASY NM555 20276/2CORE
CABLCT	DC020145400	79PP0699	H-CON SET NM555 CTRL-KEY
CABLSW	DC020149900	79PP0806	H-CON SET NS555 P802-SW
CN2	SP02E002100	79PP0670	W-CONN E&T 98210-4011 40P
CN3	SP02E002100	79PP0670	W-CONN E&T 98210-4011 40P
F801	DX202P02135	79PP0772	FUSE 2AH 250V S UL/SENKO/
F901	SP0402P3000	79PP0830	S FUSE 2.3A 50V UL/CSA FA
FFC	NBX40000300	79PP0808	FFC 40P G P0.5 PAD=0.5 71
P801	DC040011700	79PP0791	SOCKET POWER SA-4S-066
PWRC	GA020000160	79PP0674	PWR CORD SP022X2.0MXIS14
VA801	DC350001700	79PP0770	ABSORBER PANASONIC ERVZ07
Y1	BD114P3M010	79PP0610	CRYSTAL 14.31818MHZ HC-49
LCD	AC600022900	79PP0804	LCD HSD150SX84-B 15" HANNSTAR

*** APPEARANCE PARTS ***

BASE	FANM5517100	79PP0618	BASE ASSY NM5517 ABS+PC M
CABB	FANM5516100	79PP0587	CABINET BACK ASSY

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
CABCV	FANM5524100	79PP0589	CABLE COVER
CABF	FANM5515100	79PP0586	CABINET FRONT ASSY
CONCV	FANM5522100	79PP0619	CONNECTOR COVER NM5522 AB
STAF	FANM5523100	79PP0620	STAND FRONT NM5523 ABS+PC
CHASS	EENS5518100	79PP0817	CHASSIS BASE ASSY NM5518

*** PRINTED & PACKING MATERIALS ***

CART	HB4NM555810	79PP0863	CARTON C-NM555-J67 FOR B/
CAUTI	HF6NM555500	79PP0678	CAUTION SHEET F-NM555-J67
CDD	LC55NM55A10	79PP0865	CD DISK NM555-J67 FOR B/B
MANU	HD67NM55110	79PP0862	USER'S MANUAL U-NM555-J67
PEBAG	HK3NJ350000	79PP0295	PE BAG
RAT	EJ4NS550200	79PP0861	RATING NP N-NS555-J67 TCO
SALES	HF6NJ350120	79PP0864	SALES OFFICE LIST F-NJ350
SETUP	HF6NM555100	79PP0677	SET UP SHEET F-NM555-J67
SPB	FJNM5515400	79PP0716	SPACER B
SPT	FJNM5515300	79PP0715	SPACER T

*** RESISTORS ***

L10	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
L11	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
L14	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L15	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L16	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L17	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L18	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L19	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L20	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L21	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R1	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R10	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R11	SD0132201T1	79PP0100	R,CHIP 2.2K 1/16W +-5%
R12	SD0132201T1	79PP0100	R,CHIP 2.2K 1/16W +-5%
R13	SD013270202	79PP0394	CHIP RES 1/16W 27K +-5%
R14	SD0134702T5	79PP0102	R,CHIP 47K 1/16W +-5%
R15	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R16	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R17	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R18	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R19	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R2	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R20	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R21	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R22	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R23	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R24	SD013470A07	79PP0849	S RES 1/16W 47 +-5% 0603
R25	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R26	SD013100AT9	79PP0098	R,CHIP 10H 1/16W +-5%

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
R27	SD013100AT9	79PP0098	R,CHIP 10H 1/16W +-5%
R28	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R29	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R3	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R30	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R31	SD0133301T1	79PP0395	CHIP RES 1/16W 3.3K +-5%
R33	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R34	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R35	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R36	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R37	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R38	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R39	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R4	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R40	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R41	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R42	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R43	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R44	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R45	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R46	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R47	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R48	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R5	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R50	SD0011800T0	79PP0847	S RES 1/8W 180 +-5% 1206
R51	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R52	SD0011800T0	79PP0847	S RES 1/8W 180 +-5% 1206
R53	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R54	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R57	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R58	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R59	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R6	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R60	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R61	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R62	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R63	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R64	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R65	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R66	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R67	SD0131003T1	79PP0097	R,CHIP 100K 1/16W +-5%
R68	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R69	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R7	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R70	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R71	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R72	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R73	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
R74	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R75	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R8	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R800	CC002A471T2	79PP5133	RES(FUSE)1W 0.2 +-5%
R801	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R802	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R803	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R804	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R805	CC3302491T1	79PP5209	RES(MOF) 1W 33K +-5%
R806	CC1003591N0	79PP0758	RES MOF 2W 100K +-5%
R807	CC0100011T8	79PP0753	RES 1/2W 10 +-5%
R808	SD0114703T5	79PP0823	S RES 1/4W 470K +-5% 1206
R809	CC1004211T6	79PP5387	RESISTOR 1/8W 1M +-5%
R810	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R811	CC4701211T7	79PP5419	RESISTOR 1/8W 4.7K +-5%
R812	CC3161225T0	79PP0836	RES MF 1/8W 3.16K +-1%
R814	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R815	CC0220211T9	79PP0756	RES 1/8W 22 +-5%
R816	CC0240171T0	79PP0757	RES FUSE 1/4W 24 +-5%
R817	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R818	CC1001171T0	79PP5167	RES(FUSE)1/4W 1K +-5%
R819	CC013AL91M0	79PP0755	RES MOF 3W 1.3 +-5% S
R820	CC013AL91M0	79PP0755	RES MOF 3W 1.3 +-5% S
R821	CC0240171T0	79PP0757	RES FUSE 1/4W 24 +-5%
R823	CC2002211T9	79PP5190	RES 1/8W 20K +-5%
R824	SD0114703T5	79PP0823	S RES 1/4W 470K +-5% 1206
R841	CC1000071T5	79PP5383	RESISTOR(FUSE) 1/2W 100 +
R842	CC0100071T6	79PP0754	RES(FUSE) 1/2W 10 +-5%
R843	CC4700491T4	79PP0763	RES MOF 1W 470 +-5%
R846	CC5600211T1	79PP0764	RES 1/8W 560 +-5%
R847	CC2201211T0	79PP0760	RES 1/8W 2.2K +-5%
R848	CC3651225T0	79PP0762	RES MF 1/8W 3.65K +-1%
R849	CC6342225T0	79PP0765	RES MF 1/8W 63.4K +-1%
R850	CC0470211T2	79PP5376	RESISTOR 1/8W 47 +-5%
R851	CC2201211T0	79PP0760	RES 1/8W 2.2K +-5%
R9	SD013120006	79PP0848	S RES 1/16W 120 +-5% 0603
R901	SD014243306	79PP0646	RES 1/16W 243K +-1%
R902	SD014681206	79PP0650	RES 1/16W 68.1K +-1%
R903	SD014750101	79PP0651	RES 1/16W 7.5K +-1%
R904	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R910	SD014316300	79PP0647	RES 1/16W 316K +-1%
R911	SD014442300	79PP0648	RES 1/16W 442K +-1%
R912	SD014549201	79PP0649	RES 1/16W 54.9K +-1%
R913	SD013510106	79PP0642	RES 1/16W 5.1K +-5%
R914	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R915	SD014130300	79PP0644	RES 1/16W 130K +-1%
R916	SD0111001T9	79PP0384	CHIP RES 1/4W 1K +-5%
R917	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
R918	SD013200409	79PP0639	RES 1/16W 2M +-5%
R919	SD0114700T3	79PP0091	R,CHIP 470H 1/4W +-5%
R920	SD0112000T6	79PP0638	RES 1/4W 200 +-5%
R921	SD014210000	79PP0645	RES 1/16W 210 +-1%
R950	SD014316300	79PP0647	RES 1/16W 316K +-1%
R951	SD014442300	79PP0648	RES 1/16W 442K +-1%
R952	SD014549201	79PP0649	RES 1/16W 54.9K +-1%
R953	SD013510106	79PP0642	RES 1/16W 5.1K +-5%
R954	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R955	SD014130300	79PP0644	RES 1/16W 130K +-1%
R956	SD0111001T9	79PP0384	CHIP RES 1/4W 1K +-5%
R957	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R958	SD013200409	79PP0639	RES 1/16W 2M +-5%
R959	SD0114700T3	79PP0091	R,CHIP 470H 1/4W +-5%
R960	SD0112000T6	79PP0638	RES 1/4W 200 +-5%
R961	SD014210000	79PP0645	RES 1/16W 210 +-1%
RP1	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP2	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP3	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP4	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP5	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP6	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP7	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP8	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP9	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RT801	CC008086700	79PP0752	RES NTC 5A 8 +-15% SCK-08

*** CAPACITORS ***

C10	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C100	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C101	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C102	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C103	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C104	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C105	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C11	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C12	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C13	SE024220JT7	79PP0116	C,CERAMIC 22P 50V +-5%
C14	SE024220JT7	79PP0116	C,CERAMIC 22P 50V +-5%
C15	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C16	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C17	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C18	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C19	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C20	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C21	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C22	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C23	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
C24	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C25	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C26	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C27	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C28	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C29	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C30	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C31	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C32	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C33	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C34	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C35	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C36	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C37	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C38	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C39	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C4	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C40	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C41	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C42	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C43	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C44	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C45	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C46	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C47	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C48	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C49	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C5	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C50	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C51	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C52	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C53	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C54	SE024471JT0	79PP0429	C,CERAMIC 470P 50V +-5% N
C56	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C57	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C58	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C59	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C6	SE024820JT4	79PP0554	S CER CAP 82P 50V +-5%
C60	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C61	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C62	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C63	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C64	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C65	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C66	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C67	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C68	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C69	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
C7	SE024820JT4	79PP0554	S CER CAP 82P 50V +-5%
C71	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C72	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C73	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C74	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C75	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C77	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C78	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C79	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C8	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C80	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C800	CA022DBMYH0	79PP0745	CER CAP 2200P 250VAC M E
C801	CJ033BXMXN0	79PP0767	FILM CAP 0.33U 275V AC M
C802	CJ033BXMXN0	79PP0767	FILM CAP 0.33U 275V AC M
C803	CA010DBMY00	79PP5088	CAP(Y1)1000P 250VAC M Z5U
C804	CA010DBMY00	79PP5088	CAP(Y1)1000P 250VAC M Z5U
C805	CB1000FM1R0	79PP0749	ELE CAP 100U 400V M B P7.
C806	CA010CEZ000	79PP0744	CER CAP 0.01U 1KV Z E P7.
C808	CB02204M0TH	79PP0747	ELE CAP 22U 25V M B P5(TM
C809	CB10004M3T0	79PP0748	ELE CAP 100U 25V M B P5 L
C81	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C810	CA010C6ZHT0	79PP0743	CER CAP 0.01U 50V Z Y5V P
C811	CB01006M1T0	79PP5344	ELE CAP 10U 50V M B P5
C812	CJ010C6JNT1	79PP5439	FILM CAP 0.01U 50V J PPN
C813	CJ010C6JNT1	79PP5439	FILM CAP 0.01U 50V J PPN
C814	CJ010D6JNT1	79PP0766	FILM CAP 0.001U 50V J PEN
C815	CA022E601T4	79PP0746	CER CAP 220P 50V +-5% NPO
C816	CB02204M0TH	79PP0747	ELE CAP 22U 25V M B P5(TM
C817	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C818	CA010CEZ000	79PP0744	CER CAP 0.01U 1KV Z E P7.
C82	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C83	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C84	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C841	CA010DEK0T0	79PP5329	CERAMIC CAP. 1000P 1KV K
C842	CA010C6ZHT0	79PP0743	CER CAP 0.01U 50V Z Y5V P
C843	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C844	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C845	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C846	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C847	CB10012M4T0	79PP0750	ELE CAP 1000U 10V M B P5
C848	CB10012M4T0	79PP0750	ELE CAP 1000U 10V M B P5
C849	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C85	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C850	CJ022B6JNT0	79PP5445	FILM CAP 0.22U 50V J MEF
C852	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C853	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C86	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C87	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105

SYMBOL	Part No for Compal	Part No forNMV	DESCRIPTION
C88	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C89	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C9	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C90	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C901	CB220034204	79PP0612	ELE CAP 220U 16V M B P3.5
C902	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C903	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C904	SE001471JH0	79PP0653	CER CAP 470P 50V J NPO
C905	SE080474K00	79PP0441	CER CAP 0.47U 10V K X7R
C906	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C91	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C910	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C911	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C912	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C913	SE043104K05	79PP0659	CER CAP 0.1U 25V K X7R
C914	SK1515BAK00	79PP0663	FIL CAP 0.15U 100V K PPS
C915	CA033FWJ000	79PP0815	CERAMIC 33P 6.3KV +-5% P1
C916	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C92	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C93	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C94	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C95	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C950	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C951	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C952	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C953	SE043104K05	79PP0659	CER CAP 0.1U 25V K X7R
C954	SK1515BAK00	79PP0663	FIL CAP 0.15U 100V K PPS
C955	CA033FWJ000	79PP0815	CERAMIC 33P 6.3KV +-5% P1
C956	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C96	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C97	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C98	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C99	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
CP1	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP2	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP3	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP4	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP5	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP6	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP7	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP8	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP9	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120

REPLACEMENT PARTS LIST

The components specified for Model LCD1550V-1-BK(B)

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
*** ICS ***			
U1	SA074140400	79PP0843	S IC SN74LVC14 SOP-14 INV
U10	SA011170300	79PP0842	S IC APL1117-33VC-TR SOT-
U11	SA010840200	79PP0841	S IC AIC1084-33CE TO252-3
U12	SA744066000	79PP0484	SM IC 74HC4066D SOP-14 AN
U13	SA011170200	79PP0626	IC APL1117-25 SOT-223 2.5
U14	SA011170200	79PP0626	IC APL1117-25 SOT-223 2.5
U15	SB923050000	79PP0846	S TR SI2305DS-T1 1P SOT-2
U2	SA024210300	79PP0627	IC EE 128X8 SOP-8 24LC21A
U3	SA090500000	79PP0844	S IC S9050-100 QFP-208
U4	SA007810010	79PP0840	FS781 BZB SOP-8 SPREAD CL
U5	SA008100300	79PP0625	IC LM810M3X-4.38 SOT-23
U6	SA7437382T2	79PP0845	S IC 74HCT373 (SSOP-20)
U7	SA7437382T2	79PP0845	S IC 74HCT373 (SSOP-20)
U8	SA002610000	79PP0839	S IC EPROM PLCC-32 MX26C1
U800	AB008170000	79PP5290	IC LTV-817M-B DIP-4 PHOTO
U801	AB038420404	79PP5021	IC KA3842A DIP-8 PWM
U802	AB0043101T3	79PP5289	IC KA431Z TO-92 REGULATOR
U9	SA024160008	79PP0359	IC EE 16K SO-8 C
U901	SA097410000	79PP0632	IC BA9741F SOP-16 PWM
*** TRANSISTORS ***			
Q1	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q2	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q3	SB7700200T5	79PP0189	TR 2N7002
Q4	SB1103600T3	79PP0055	TR 2SA1036K (SOT-23)
Q5	SB7700200T5	79PP0189	TR 2N7002
Q6	SBX012400T0	79PP0058	TR DTC124EK (SOT-23)
Q801	BB527610001	79PP5310	TRANSISTOR 2SK2761-01MR 1
Q802	BB3014500T7	79PP0735	TR HTL145 NPN TO-92
Q803	BB30945P1T5	79PP5028	TRANSISTOR 2SC945-P
Q804	BC9T169D0T7	79PP5323	SCR BT169D TO-92
Q901	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q902	SB8A12400T1	79PP0635	TR DTA124EK (SM)
Q911	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q912	SB8A12400T1	79PP0635	TR DTA124EK (SM)
Q913	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q914	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q915	SB7700200T5	79PP0189	TR 2N7002
Q916	SB934570000	79PP0636	TR SI3457DV-T1 1P TSOP-6
Q951	SB3241100T8	79PP0057	TR 2SC2411K (SOT-23)
Q952	SB8A12400T1	79PP0635	TR DTA124EK (SM)

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
Q953	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q954	SB3467200T3	79PP0634	TR 2SC4672 (SOT-89)
Q955	SB7700200T5	79PP0189	TR 2N7002
Q956	SB934570000	79PP0636	TR SI3457DV-T1 1P TSOP-6

*** DIODES ***

BD801	BC3BP08M100	79PP0814	DIO (BR) 2KBP08M PANJIT
D1	SC10QS041T4	79PP0061	DIODE EC10QS04
D2	SC10QS041T4	79PP0061	DIODE EC10QS04
D3	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D4	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D5	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D6	SC4LZ56B0T5	79PP0380	ZENER DIODE RLZ5.6B(LL-34
D801	BC1PS1010T0	79PP0832	DIO PS1010R DO-41 PANJIT
D802	BC1PS1040T0	79PP0833	DIO PS104R DO-41 PANJIT
D803	BC11N4148T8	79PP0258	DIODE 1N4148
D804	BC11N4148T8	79PP0258	DIODE 1N4148
D805	BC11N4148T8	79PP0258	DIODE 1N4148
D806	BC11N4148T8	79PP0258	DIODE 1N4148
D841	BC1ER100200	79PP0736	DIODE ER1002F T0-220F
D842	BC1SB5600N0	79PP0813	DIO SB560-F17 DO-201AD P2
D901	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D910	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D911	SC10QS042T4	79PP0825	S DIO EC10QS04
D912	SC6BAV99100	79PP0826	S DIO ROW BAV99(JE) 2P SO
D950	SC11N4148T8	79PP0062	DIODE 1N4148 (SM)
D951	SC10QS042T4	79PP0825	S DIO EC10QS04
D952	SC6BAV99100	79PP0826	S DIO ROW BAV99(JE) 2P SO
LED401	BC5G2093000	79PP0331	LED LYG2093 YEL/GRN 3D
ZD1	SC1LC208000	79PP0376	DIODE DALC208SC6 SOT23-6
ZD801	BC4HZ2020T7	79PP0834	ZEN DIO HZ20-2

*** TRANSFORMERS ***

T801	DG100015100	79PP0771	X'FORMER NM555 POWER EFD2
T911	SP051006200	79PP0831	S X'FORM NS555 EFD20 POWE
T951	SP051006200	79PP0831	S X'FORM NS555 EFD20 POWE

*** VARIABLE RESISTORS ***

VR801	CF210010201	79PP5233	VR 1/10W 1KB VZ068TL1-B1K

*** RELAYS & SWITCHES ***

SW1	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW2	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW3	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW4	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW5	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW6	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720
SW7	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
SW8	DE611001500	79PP0615	TACT SW NM555 SKHHBW2720

*** PWB ASSYS ***

CTRLBD	461A7367005	79PP0868	FIRMWARE CTRL/B VL-543 LN
INV	453A7567001	79PP0802	PCBA INVERTER/B VI-543 LN
KEYBD	454A5267001	79PP0584	PCBA KEY/B VK-530 LNM555G
POWBD	453A7367001	79PP0801	PCBA POWER/B VP-543 LNS55

*** COILS & FILTERS ***

CORE	DC150010200	79PP0807	CORE KC K5B FS 25.5X4.5X
L1	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L12	SM060000500	79PP0668	SUPPRE NWE STC222B
L13	SM010006300	79PP0447	CHIP MURATA BLM21P300S
L2	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L22	SM010007200	79PP0136	COIL BLM21P221SG
L3	SM010014200	79PP0491	SSUPPRE KC FBM-L11-160808
L4	SM010007200	79PP0136	COIL BLM21P221SG
L5	SM010007200	79PP0136	COIL BLM21P221SG
L6	SM010007200	79PP0136	COIL BLM21P221SG
L7	SM010007200	79PP0136	COIL BLM21P221SG
L8	SM010007200	79PP0136	COIL BLM21P221SG
L801	CL900006805	79PP0769	LINE FILT BJ350 5MH 1.2A
L802	CL900006805	79PP0769	LINE FILT BJ350 5MH 1.2A
L803	DC1510009T0	79PP5278	BEAD NWE W5 3.5X6X1.0+T
L841	CL300003600	79PP0768	CHOK COIL NM555 2.9UH +-3
L842	CL300003600	79PP0768	CHOK COIL NM555 2.9UH +-3
L9	SM010006300	79PP0447	CHIP MURATA BLM21P300S
L911	CL310011600	79PP0613	CHOK COIL NM555 245UH K
L951	CL310011600	79PP0613	CHOK COIL NM555 245UH K

*** ELECTRICAL PARTS & MISCELLANEOUS PARTS ***

CABLE	DC190020700	79PP0691	CB ASY NM555 20276/2CORE
CN2	SP02E002100	79PP0670	W-CONN E&T 98210-4011 40P
CN3	SP02E002100	79PP0670	W-CONN E&T 98210-4011 40P
CONCTR	DC020145400	79PP0699	H-CON SET NM555 CTRL-KEY
CONSW	DC020150000	79PP0855	H-CON SET NS555 P802-SW B
F801	DX202P02135	79PP0772	FUSE 2AH 250V S UL/SENKO/
F901	SP0402P3000	79PP0830	S FUSE 2.3A 50V UL/CSA FA
FFC	NBX40000300	79PP0808	FFC 40P G P0.5 PAD=0.5 71
P801	DC040011700	79PP0791	SOCKET POWER SA-4S-066
POWCOD	GA020000170	79PP0867	PWR CORD SP022X2.0MXIS14
VA801	DC350001700	79PP0770	ABSORBER PANASONIC ERVZ07
Y1	BD114P3M010	79PP0610	CRYSTAL 14.31818MHZ HC-49
LCD	AC600022900	79PP0804	LCD HSD150SX84-B 15" HANNSTAR

*** APPEARANCE PARTS ***

BASE	FANM5517200	79PP0693	BASE ASSY-NEC NM5517 ABS+
CABCV	FANM5516200	79PP0606	CABINET COVER ASSY(BK-A)

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
CABF	FANM5515200	79PP0605	CABINET FRONT ASSY(BK-A)
CABLCV	FANM5524200	79PP0607	CABLE COVER ASSY(BK-A)
CONCV	FANM5522200	79PP0694	CONNECTOR COVER NM5522 AB
STAF	FANM5523200	79PP0695	STAND FRONT NM5523 ABS+PC
CHASS	EENS5518100	79PP0817	CHASSIS BASE ASSY NM5518

*** PRINTED & PACKING MATERIALS ***

SPT	FJNM5515300	79PP0715	SPACER T
SPB	FJNM5515400	79PP0716	SPACER B
CARTN	HB4NM555810	79PP0863	CARTON C-NM555-J67 FOR B/
CAUT	HF6NM555500	79PP0678	CAUTION SHEET F-NM555-J67
CDD	LC55NM55A10	79PP0865	CD DISK NM555-J67 FOR B/B
MANU	HD67NM55110	79PP0862	USER'S MANUAL U-NM555-J67
PEBAG	HK3NJ350000	79PP0295	PE BAG
RATING	EJ4NS550300	79PP0869	RATING NP N-NS555-J67 TCO
SALS	HF6NJ350120	79PP0864	SALES OFFICE LIST F-NJ350
SETUP	HF6NM555100	79PP0677	SET UP SHEET F-NM555-J67

*** RESISTORS ***

L10	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
L11	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
L14	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L15	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L16	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L17	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L18	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L19	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L20	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
L21	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R1	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R10	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R11	SD0132201T1	79PP0100	R,CHIP 2.2K 1/16W +-5%
R12	SD0132201T1	79PP0100	R,CHIP 2.2K 1/16W +-5%
R13	SD013270202	79PP0394	CHIP RES 1/16W 27K +-5%
R14	SD0134702T5	79PP0102	R,CHIP 47K 1/16W +-5%
R15	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R16	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R17	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R18	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R19	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R2	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R20	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R21	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R22	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R23	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R24	SD013470A07	79PP0849	S RES 1/16W 47 +-5% 0603
R25	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R26	SD013100AT9	79PP0098	R,CHIP 10H 1/16W +-5%

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
R27	SD013100AT9	79PP0098	R,CHIP 10H 1/16W +-5%
R28	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R29	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R3	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R30	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R31	SD0133301T1	79PP0395	CHIP RES 1/16W 3.3K +-5%
R33	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R34	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R35	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R36	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R37	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R38	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R39	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R4	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R40	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R41	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R42	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R43	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R44	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R45	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R46	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R47	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R48	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R5	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R50	SD0011800T0	79PP0847	S RES 1/8W 180 +-5% 1206
R51	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R52	SD0011800T0	79PP0847	S RES 1/8W 180 +-5% 1206
R53	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R54	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R57	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R58	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R59	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R6	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R60	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R61	SD0134701T8	79PP0194	CHIP RES 1/16W 4.7K +-5%
R62	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R63	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R64	SD0130000T4	79PP0092	R,CHIP 0H 1/16W +5%
R65	SD0131001T6	79PP0095	R,CHIP 1K 1/16W +-5%
R66	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R67	SD0131003T1	79PP0097	R,CHIP 100K 1/16W +-5%
R68	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R69	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R7	SD014100009	79PP0850	S RES 1/16W 100 +-1% 0603
R70	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R71	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R72	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R73	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
R74	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R75	SD013220AT4	79PP0101	R,CHIP 22H 1/16W +-5%
R8	SD014750A03	79PP0415	CHIP RES 1/16W 75 +-1%
R800	CC002A471T2	79PP5133	RES(FUSE)1W 0.2 +-5%
R801	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R802	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R803	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R804	SD011510300	79PP0824	S RES 1/4W 510K +-5% 1206
R805	CC3302491T1	79PP5209	RES(MOF) 1W 33K +-5%
R806	CC1003591N0	79PP0758	RES MOF 2W 100K +-5%
R807	CC0100011T8	79PP0753	RES 1/2W 10 +-5%
R808	SD0114703T5	79PP0823	S RES 1/4W 470K +-5% 1206
R809	CC1004211T6	79PP5387	RESISTOR 1/8W 1M +-5%
R810	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R811	CC4701211T7	79PP5419	RESISTOR 1/8W 4.7K +-5%
R812	CC3161225T0	79PP0836	RES MF 1/8W 3.16K +-1%
R814	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R815	CC0220211T9	79PP0756	RES 1/8W 22 +-5%
R816	CC0240171T0	79PP0757	RES FUSE 1/4W 24 +-5%
R817	CC1002211T7	79PP5171	RES 1/8W 10K +-5%
R818	CC1001171T0	79PP5167	RES(FUSE)1/4W 1K +-5%
R819	CC013AL91M0	79PP0755	RES MOF 3W 1.3 +-5% S
R820	CC013AL91M0	79PP0755	RES MOF 3W 1.3 +-5% S
R821	CC0240171T0	79PP0757	RES FUSE 1/4W 24 +-5%
R823	CC2002211T9	79PP5190	RES 1/8W 20K +-5%
R824	SD0114703T5	79PP0823	S RES 1/4W 470K +-5% 1206
R841	CC1000071T5	79PP5383	RESISTOR(FUSE) 1/2W 100 +
R842	CC0100071T6	79PP0754	RES(FUSE) 1/2W 10 +-5%
R843	CC4700491T4	79PP0763	RES MOF 1W 470 +-5%
R846	CC5600211T1	79PP0764	RES 1/8W 560 +-5%
R847	CC2201211T0	79PP0760	RES 1/8W 2.2K +-5%
R848	CC3651225T0	79PP0762	RES MF 1/8W 3.65K +-1%
R849	CC6342225T0	79PP0765	RES MF 1/8W 63.4K +-1%
R850	CC0470211T2	79PP5376	RESISTOR 1/8W 47 +-5%
R851	CC2201211T0	79PP0760	RES 1/8W 2.2K +-5%
R9	SD013120006	79PP0848	S RES 1/16W 120 +-5% 0603
R901	SD014243306	79PP0646	RES 1/16W 243K +-1%
R902	SD014681206	79PP0650	RES 1/16W 68.1K +-1%
R903	SD014750101	79PP0651	RES 1/16W 7.5K +-1%
R904	SD0131004T8	79PP0190	CHIP RES 1/16W 1M +-5% 06
R910	SD014316300	79PP0647	RES 1/16W 316K +-1%
R911	SD014442300	79PP0648	RES 1/16W 442K +-1%
R912	SD014549201	79PP0649	RES 1/16W 54.9K +-1%
R913	SD013510106	79PP0642	RES 1/16W 5.1K +-5%
R914	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R915	SD014130300	79PP0644	RES 1/16W 130K +-1%
R916	SD0111001T9	79PP0384	CHIP RES 1/4W 1K +-5%
R917	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%

SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
R918	SD013200409	79PP0639	RES 1/16W 2M +-5%
R919	SD0114700T3	79PP0091	R,CHIP 470H 1/4W +-5%
R920	SD0112000T6	79PP0638	RES 1/4W 200 +-5%
R921	SD014210000	79PP0645	RES 1/16W 210 +-1%
R950	SD014316300	79PP0647	RES 1/16W 316K +-1%
R951	SD014442300	79PP0648	RES 1/16W 442K +-1%
R952	SD014549201	79PP0649	RES 1/16W 54.9K +-1%
R953	SD013510106	79PP0642	RES 1/16W 5.1K +-5%
R954	SD014200208	79PP0198	CHIP RES 1/16W 20K +-1% 0
R955	SD014130300	79PP0644	RES 1/16W 130K +-1%
R956	SD0111001T9	79PP0384	CHIP RES 1/4W 1K +-5%
R957	SD0131002T3	79PP0096	R,CHIP 10K 1/16W +-5%
R958	SD013200409	79PP0639	RES 1/16W 2M +-5%
R959	SD0114700T3	79PP0091	R,CHIP 470H 1/4W +-5%
R960	SD0112000T6	79PP0638	RES 1/4W 200 +-5%
R961	SD014210000	79PP0645	RES 1/16W 210 +-1%
RP1	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP2	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP3	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP4	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP5	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP6	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP7	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP8	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RP9	SD302220A00	79PP0105	R,CHIP 22H 1/16W +-5%
RT801	CC008086700	79PP0752	RES NTC 5A 8 +-15% SCK-08

*** CAPACITORS ***

C10	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C100	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C101	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C102	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C103	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C104	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C105	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C11	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C12	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C13	SE024220JT7	79PP0116	C,CERAMIC 22P 50V +-5%
C14	SE024220JT7	79PP0116	C,CERAMIC 22P 50V +-5%
C15	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C16	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C17	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C18	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C19	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C20	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C21	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C22	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C23	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80

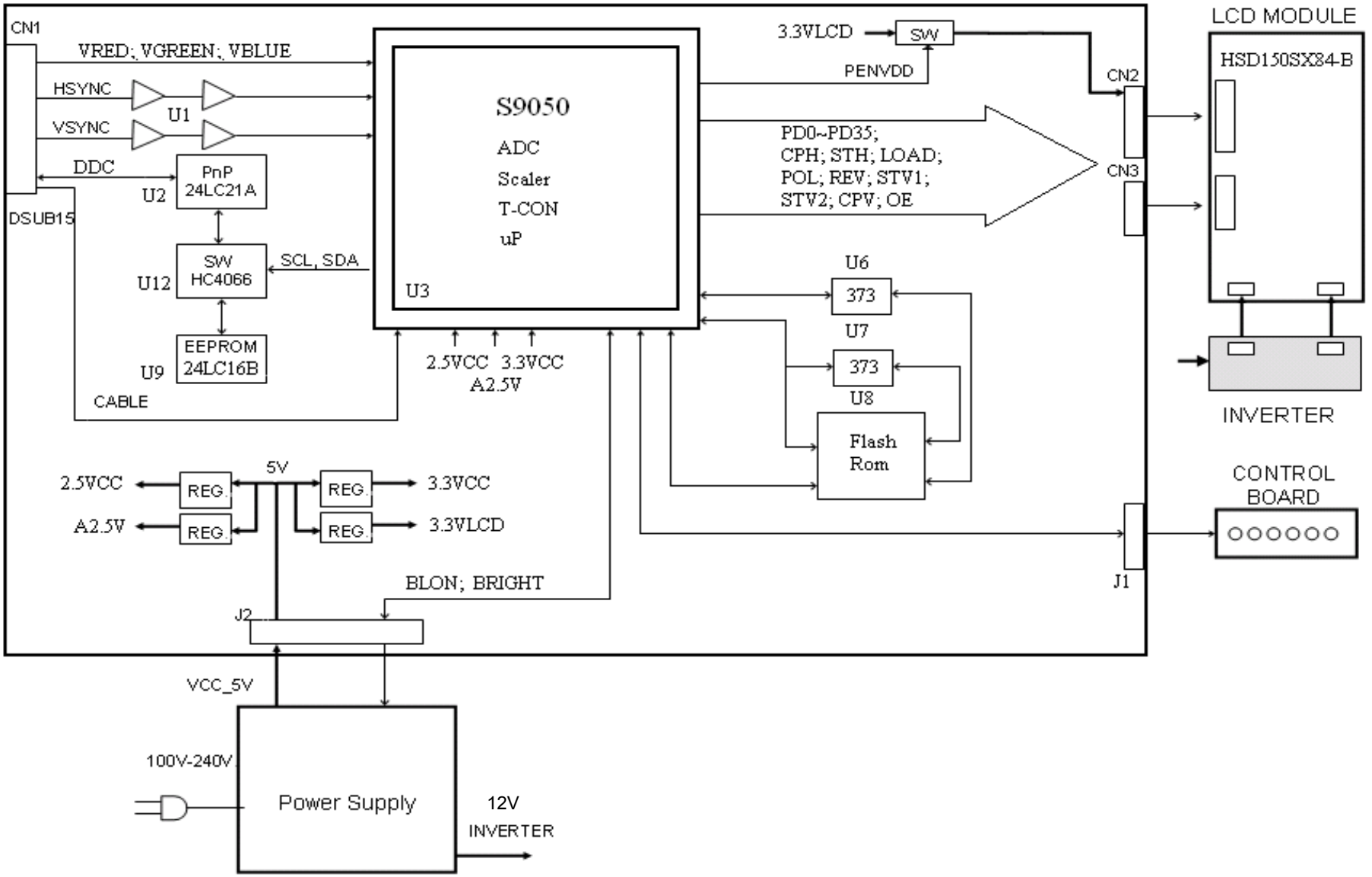
SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
C24	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C25	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C26	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C27	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C28	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C29	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C30	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C31	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C32	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C33	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C34	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C35	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C36	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C37	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C38	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C39	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C4	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C40	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C41	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C42	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C43	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C44	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C45	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C46	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C47	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C48	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C49	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C5	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C50	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C51	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C52	SE053106Z00	79PP0851	S CER CAP 10U 10V Z Y5V 0
C53	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C54	SE024471JT0	79PP0429	C,CERAMIC 470P 50V +-5% N
C56	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C57	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C58	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C59	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C6	SE024820JT4	79PP0554	S CER CAP 82P 50V +-5%
C60	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C61	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C62	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C63	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C64	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C65	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C66	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C67	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C68	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C69	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105

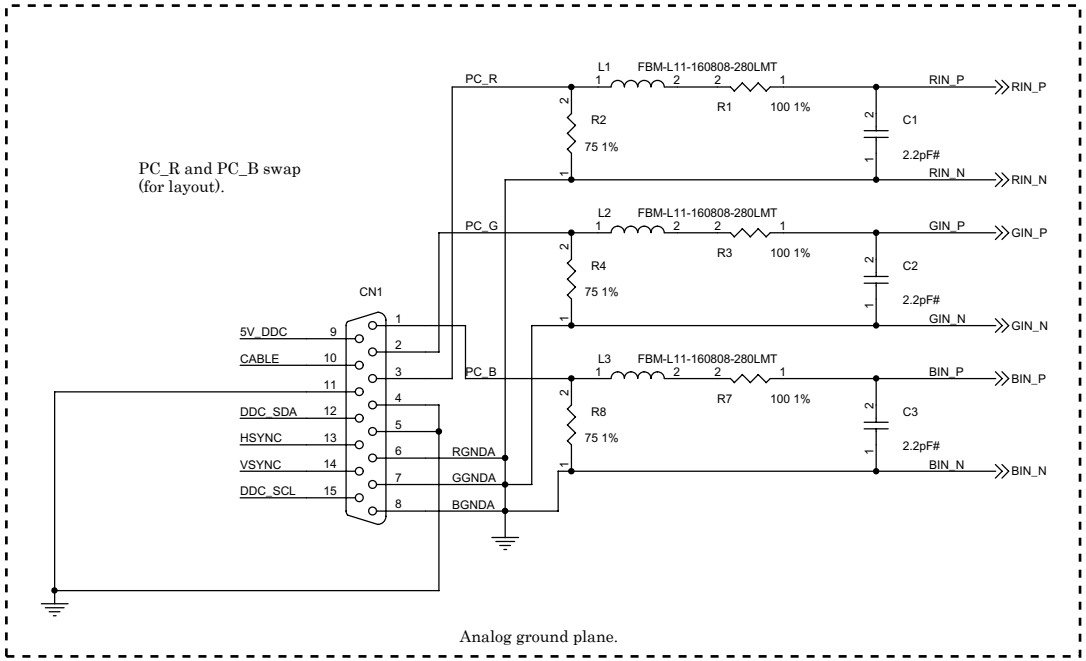
SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
C7	SE024820JT4	79PP0554	S CER CAP 82P 50V +-5%
C71	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C72	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C73	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C74	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C75	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C77	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C78	CB22003M100	79PP0334	ELE CAP 220U 16V M A P2.5
C79	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C8	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C80	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C800	CA022DBMYH0	79PP0745	CER CAP 2200P 250VAC M E
C801	CJ033BXMXN0	79PP0767	FILM CAP 0.33U 275V AC M
C802	CJ033BXMXN0	79PP0767	FILM CAP 0.33U 275V AC M
C803	CA010DBMY00	79PP5088	CAP(Y1)1000P 250VAC M Z5U
C804	CA010DBMY00	79PP5088	CAP(Y1)1000P 250VAC M Z5U
C805	CB1000FM1R0	79PP0749	ELE CAP 100U 400V M B P7.
C806	CA010CEZ000	79PP0744	CER CAP 0.01U 1KV Z E P7.
C808	CB02204M0TH	79PP0747	ELE CAP 22U 25V M B P5(TM
C809	CB10004M3T0	79PP0748	ELE CAP 100U 25V M B P5 L
C81	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C810	CA010C6ZHT0	79PP0743	CER CAP 0.01U 50V Z Y5V P
C811	CB01006M1T0	79PP5344	ELE CAP 10U 50V M B P5
C812	CJ010C6JNT1	79PP5439	FILM CAP 0.01U 50V J PPN
C813	CJ010C6JNT1	79PP5439	FILM CAP 0.01U 50V J PPN
C814	CJ010D6JNT1	79PP0766	FILM CAP 0.001U 50V J PEN
C815	CA022E601T4	79PP0746	CER CAP 220P 50V +-5% NPO
C816	CB02204M0TH	79PP0747	ELE CAP 22U 25V M B P5(TM
C817	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C818	CA010CEZ000	79PP0744	CER CAP 0.01U 1KV Z E P7.
C82	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105
C83	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C84	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C841	CA010DEK0T0	79PP5329	CERAMIC CAP. 1000P 1KV K
C842	CA010C6ZHT0	79PP0743	CER CAP 0.01U 50V Z Y5V P
C843	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C844	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C845	CB47004M2T0	79PP0751	ELE CAP 470U 25V M B P5 L
C846	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C847	CB10012M4T0	79PP0750	ELE CAP 1000U 10V M B P5
C848	CB10012M4T0	79PP0750	ELE CAP 1000U 10V M B P5
C849	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C85	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C850	CJ022B6JNT0	79PP5445	FILM CAP 0.22U 50V J MEF
C852	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C853	CA001A601T8	79PP0277	CERAMIC CAP. 0.1U 50V Z Y
C86	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C87	CB02206M110	79PP0837	ELE CAP 22U 50V +-20% 105

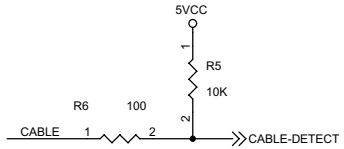
SYMBOL	Part No for Compal	Part No for NMV	DESCRIPTION
C88	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C89	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C9	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C90	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C901	CB220034204	79PP0612	ELE CAP 220U 16V M B P3.5
C902	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C903	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C904	SE001471JH0	79PP0653	CER CAP 470P 50V J NPO
C905	SE080474K00	79PP0441	CER CAP 0.47U 10V K X7R
C906	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C91	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C910	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C911	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C912	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C913	SE043104K05	79PP0659	CER CAP 0.1U 25V K X7R
C914	SK1515BAK00	79PP0663	FIL CAP 0.15U 100V K PPS
C915	CA033FWJ000	79PP0815	CERAMIC 33P 6.3KV +-5% P1
C916	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C92	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C93	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C94	CB10003M110	79PP0866	ELE CAP 100U 16V +-20% 10
C95	SE025102K04	79PP0118	C,CERAMIC 1000P 50V
C950	SE026104K01	79PP0432	C,CERAMIC 0.1U 16V K X7R
C951	SE025103KT4	79PP0203	CHIP CER,CAP. 0.01U 50V +
C952	SE030105K08	79PP0435	C,CERAMIC 1U 16V K X7R
C953	SE043104K05	79PP0659	CER CAP 0.1U 25V K X7R
C954	SK1515BAK00	79PP0663	FIL CAP 0.15U 100V K PPS
C955	CA033FWJ000	79PP0815	CERAMIC 33P 6.3KV +-5% P1
C956	SE056225K01	79PP0660	CER CAP 2.2U 16V K X7R
C96	SE027104NT0	79PP0119	C,CERAMIC 0.1U 16V -20+80
C97	SE024100FT1	79PP0114	C,CERAMIC 10P 50V +-1PF
C98	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
C99	SE024101JT8	79PP0115	C,CARAMIC 100P 50V +-5%
CP1	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP2	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP3	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP4	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP5	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP6	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP7	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP8	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120
CP9	SI102470K40	79PP0852	S ROW CAP 47P 50V NPO 120

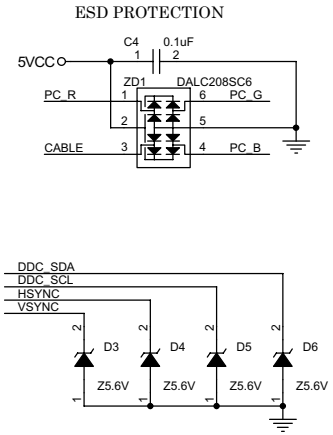
BLOCK DIAGRAM LCD1550V / LCD1550V-BK (LA-15R02-1 / LA-15R02-1-BK)

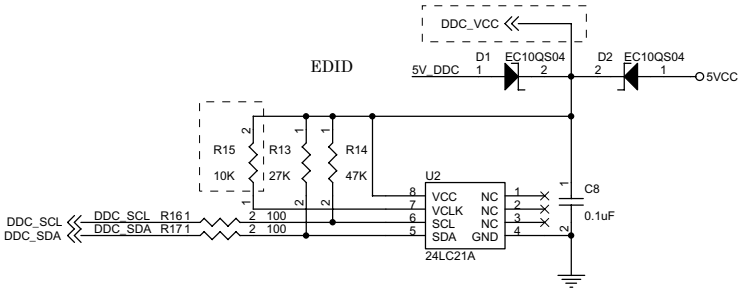
INTERFACE BOARD

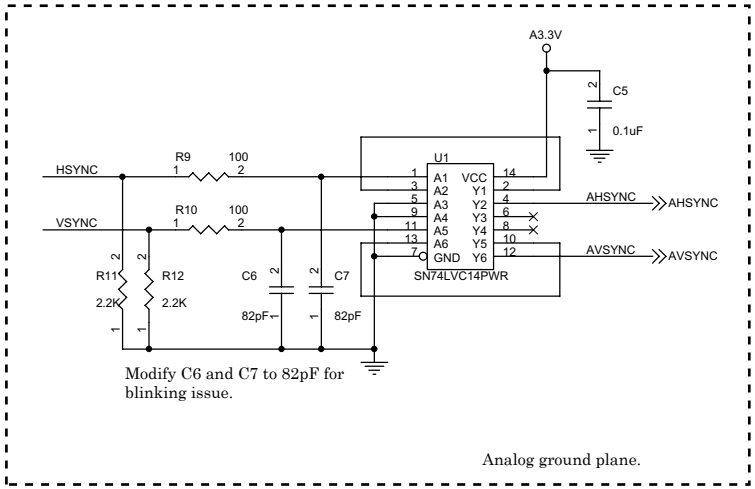



PC_R and PC_B swap
(for layout).
CN1
5V_DDC
CABLE
DDC_SDA
HSYNC
VSYNC
DDC_SCL
PC_R
PC_G
PC_B
L1 FBM-L11-160808-280LMT
L2 FBM-L11-160808-280LMT
L3 FBM-L11-160808-280LMT
R1 100 1%
R2 75 1%
R3 100 1%
R4 75 1%
R7 100 1%
R8 75 1%
C1 2.2pF#
C2 2.2pF#
C3 2.2pF#
RIN_P
RIN_N
GIN_P
GIN_N
BIN_P
BIN_N
RGNDA
GGNDA
BGNDA
Analog ground plane.

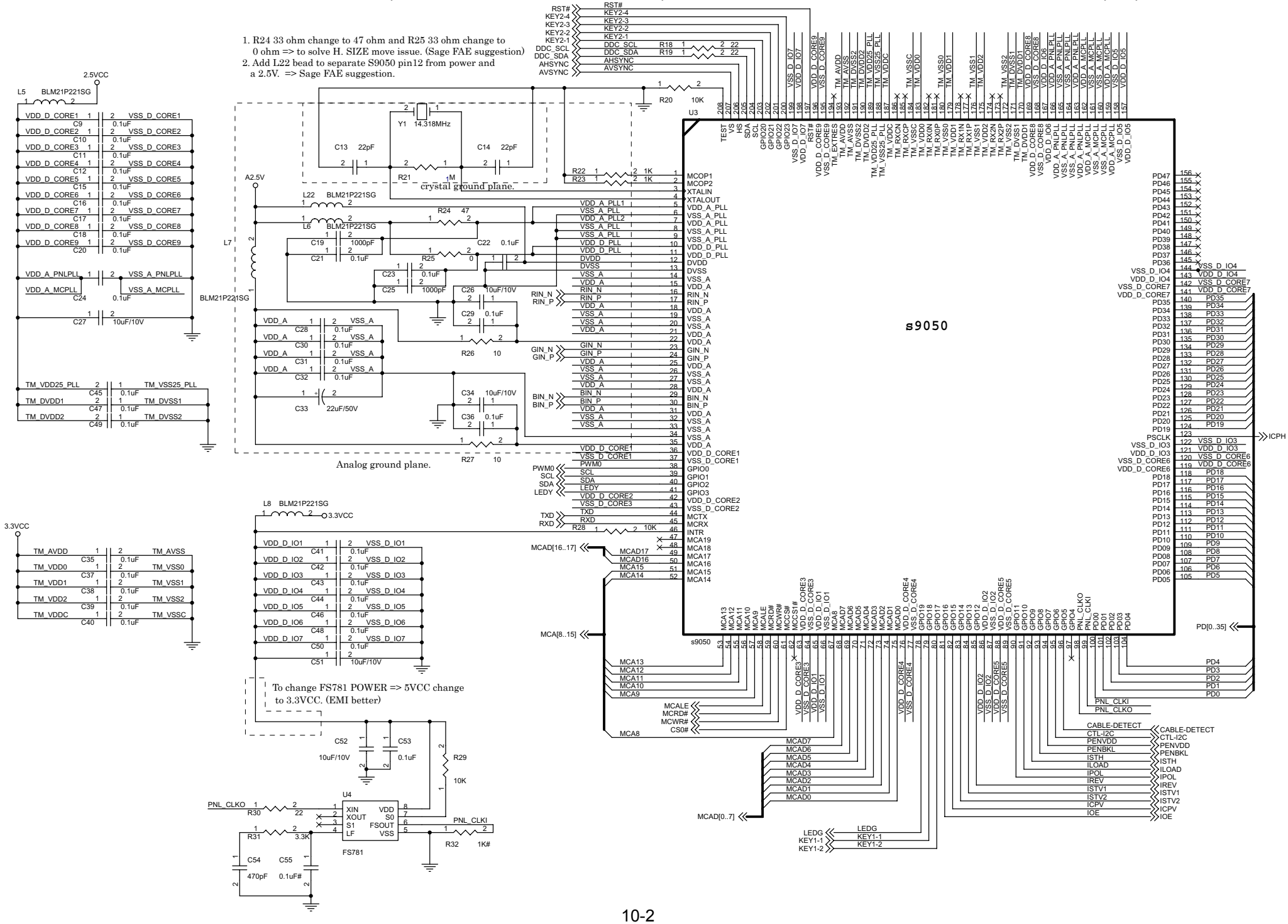

5VCC
R5
10K
R6 100
CABLE
CABLE-DETECT
L4 BLM21P221SG
A3.3V
3.3VCC


ESD PROTECTION
5VCC
C4 0.1uF
ZD1 DALC208SC6
PC_R
PC_G
CABLE
PC_B
DDC_SDA
DDC_SCL
HSYNC
VSYNC
D3 Z5.6V
D4 Z5.6V
D5 Z5.6V
D6 Z5.6V

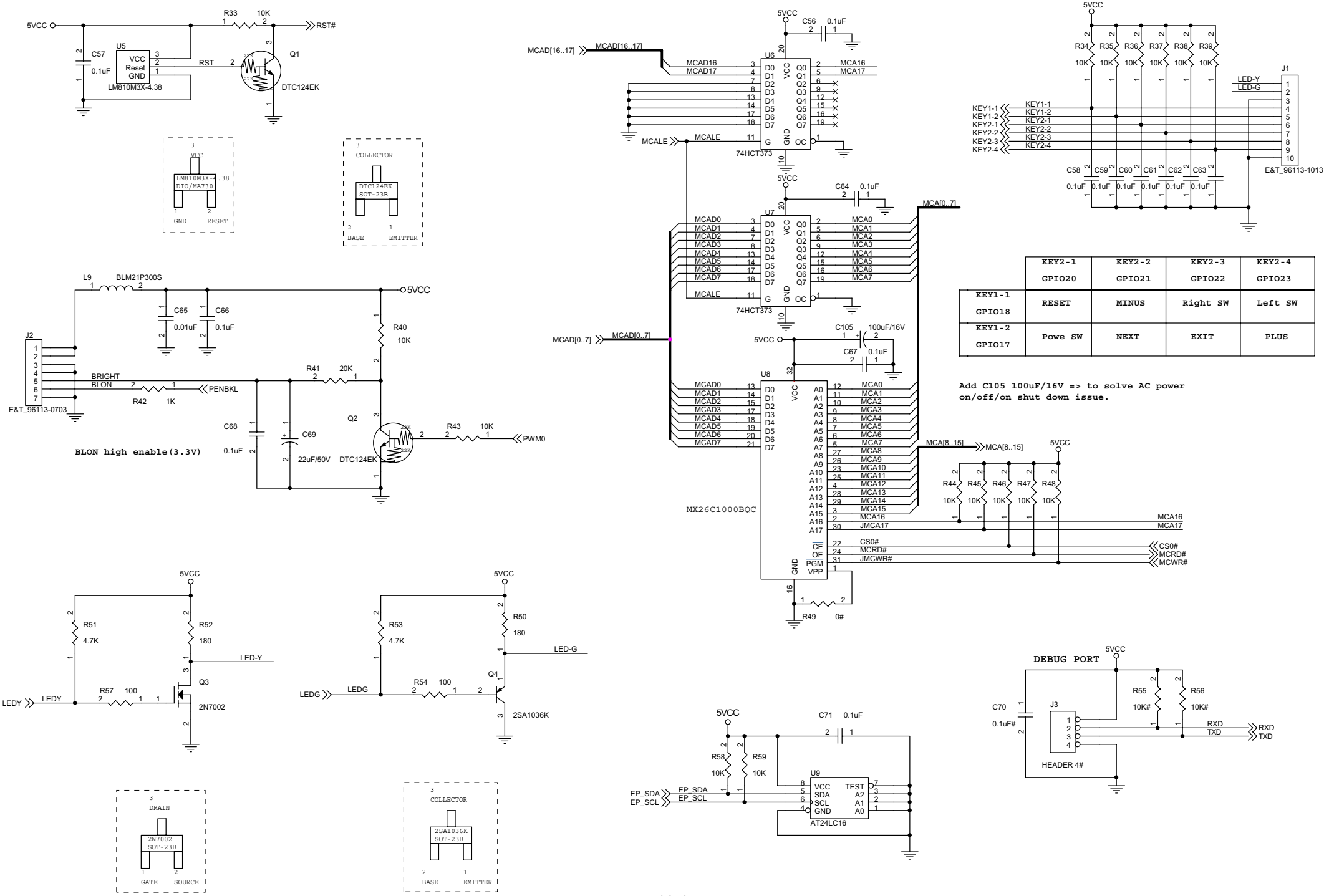

EDID
DDC_VCC
5V_DDC
D1 EC10QS04
D2 EC10QS04
5VCC
R15 10K
R13 27K
R14 47K
DDC_SCL R161 100
DDC_SDA R171 100
U2
VCC NC
VCLK NC
SCL NC
SDA GND
24LC21A
C8 0.1uF

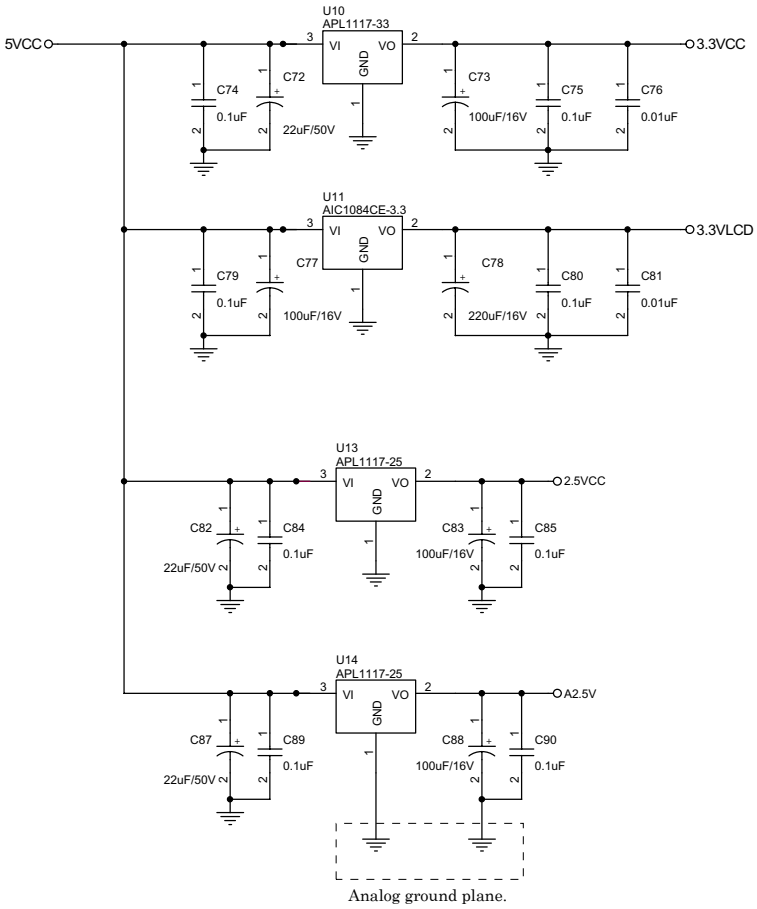

A3.3V
C5 0.1uF
HSYNC
VSYNC
R9 100
R10 100
R11 2.2K
R12 2.2K
C6 82pF
C7 82pF
U1
SN74LVC14PWR
AHSYNC
AVSYNC
Modify C6 and C7 to 82pF for blinking issue.
Analog ground plane.

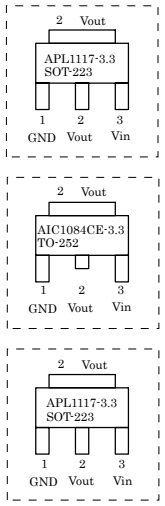
MODEL LCD1550V-1 / LCD1550V-1-BK (LA-15R02-1 / LA-15R02-1-BK) FIRMWARE CTRL/B SCHEMATIC DIAGRAM (2/5)

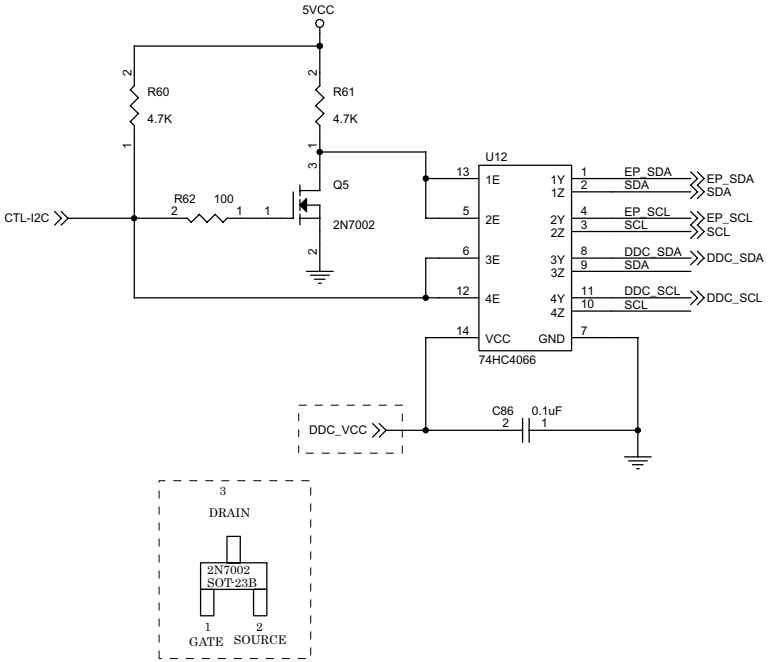


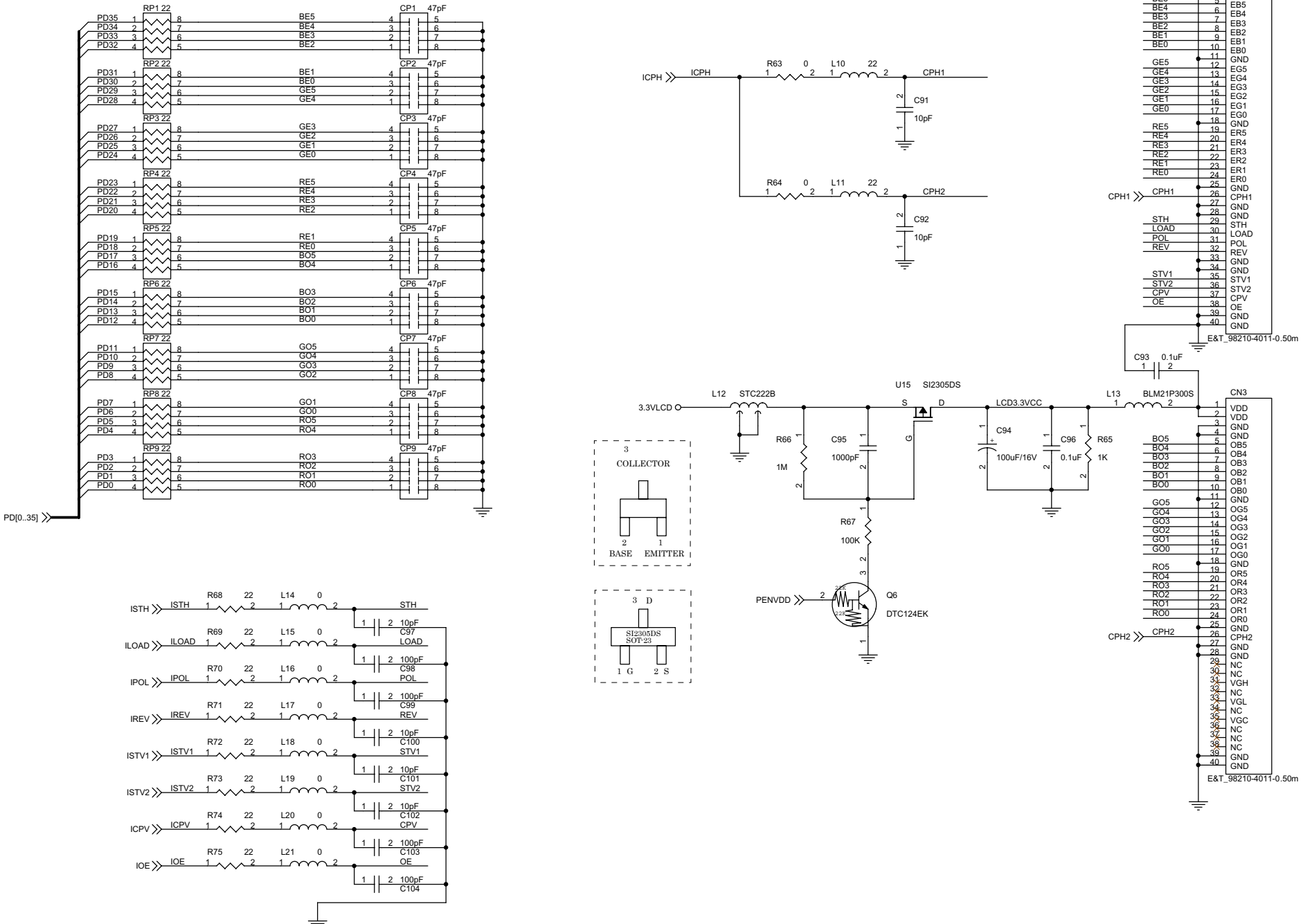
MODEL LCD1550V-1 / LCD1550V-1-BK (LA-15R02-1 / LA-15R02-1-BK) FIRMWARE CTRL/B SCHEMATIC DIAGRAM (3/5)



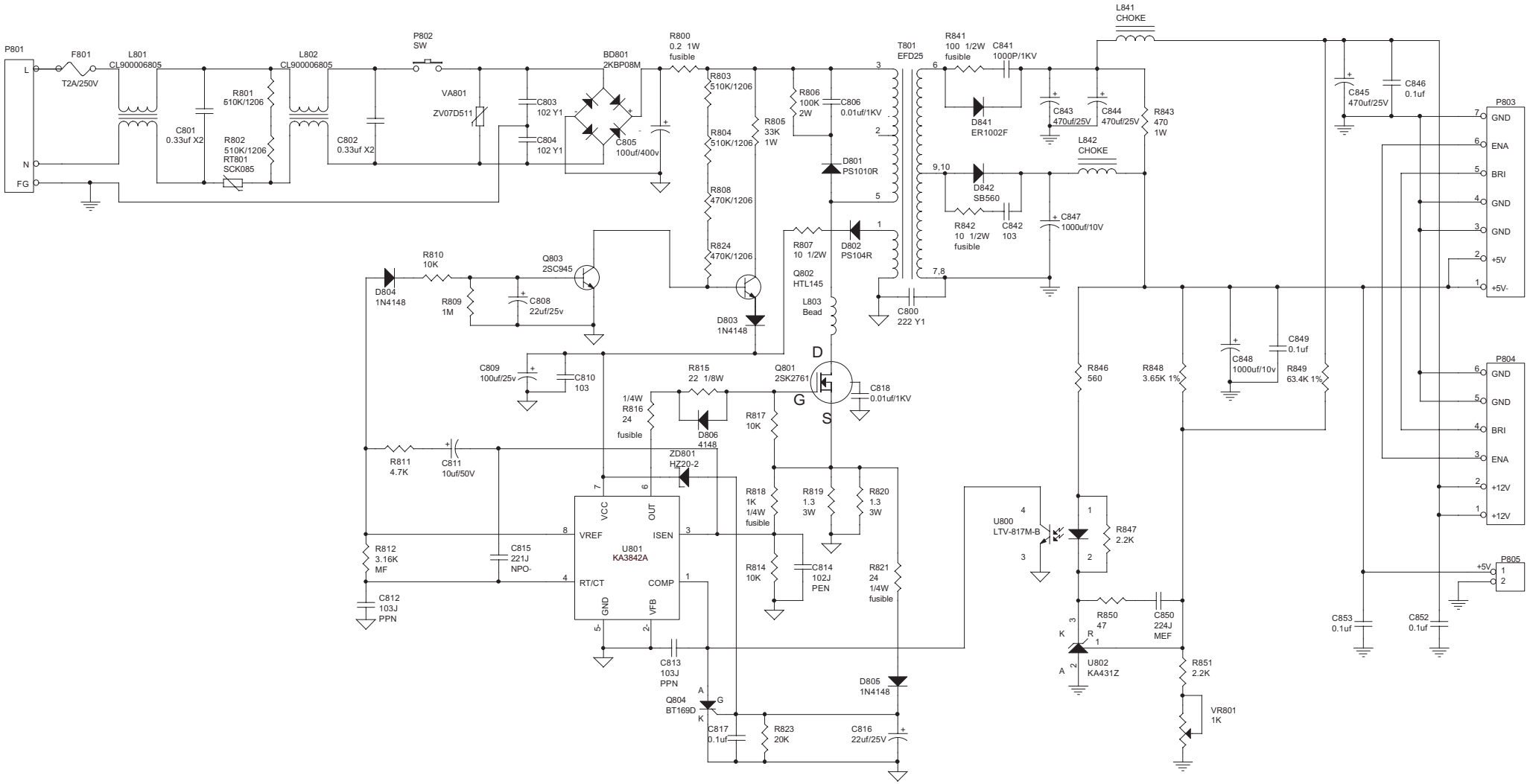

U10
APL1117-33
5VCC
3.3VCC
C74
0.1uF
C72
22uF/50V
C73
100uF/16V
C75
0.1uF
C76
0.01uF
U11
AIC1084CE-3.3
3.3VLCD
C79
0.1uF
C77
100uF/16V
C78
220uF/16V
C80
0.1uF
C81
0.01uF
U13
APL1117-25
2.5VCC
C82
22uF/50V
C84
0.1uF
C83
100uF/16V
C85
0.1uF
U14
APL1117-25
A2.5V
C87
22uF/50V
C89
0.1uF
C88
100uF/16V
C90
0.1uF
Analog ground plane.


Vout
APL1117-3.3
SOT-223
GND Vout Vin
Vout
AIC1084CE-3.3
TO-252
GND Vout Vin
Vout
APL1117-3.3
SOT-223
GND Vout Vin

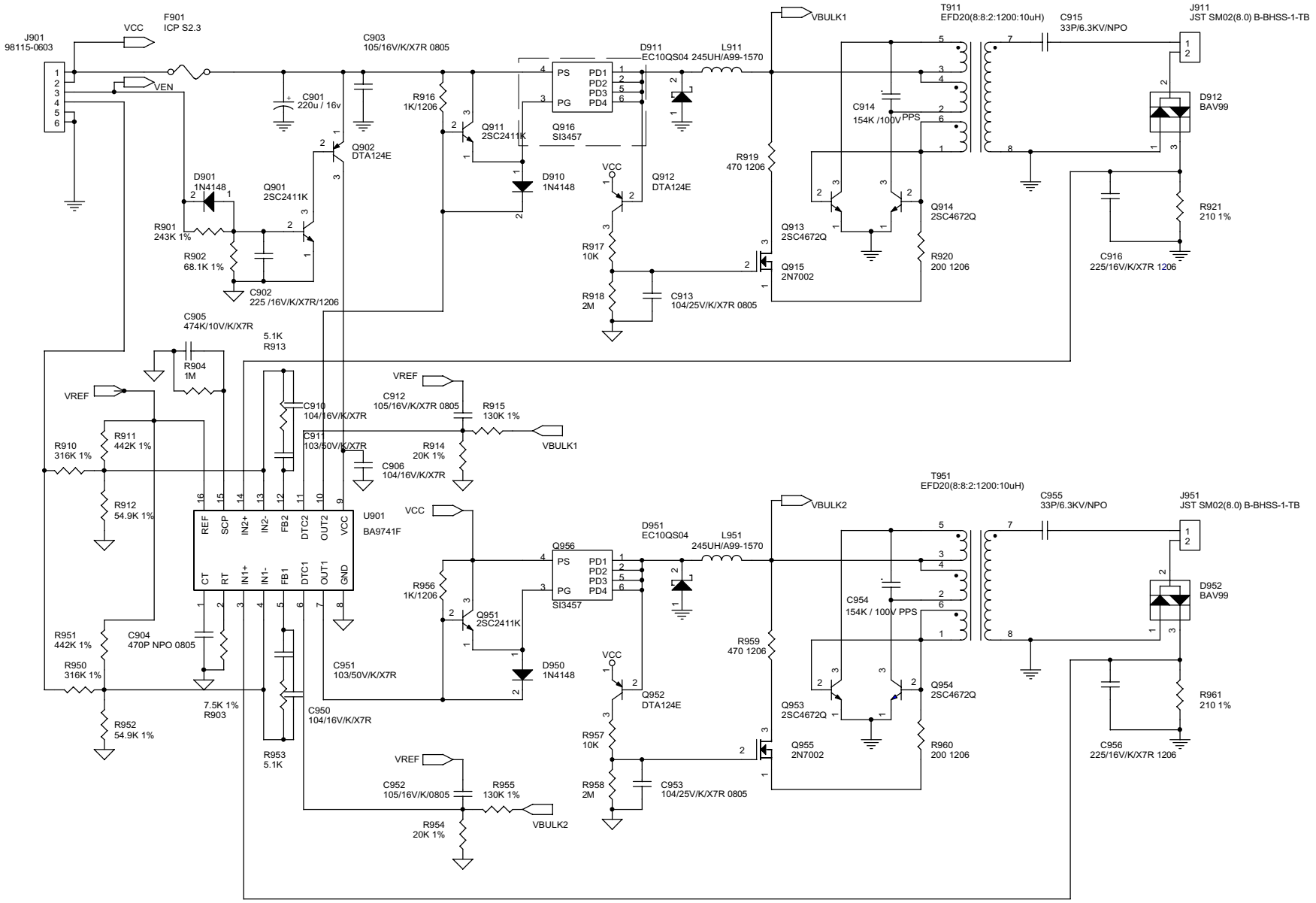

5VCC
R60
4.7K
R61
4.7K
Q5
2N7002
R62
100
CTL-I2C
U12
74HC4066
EP_SDA
SDA
EP_SCL
SCL
DDC_SDA
DDC_SCL
C86
0.1uF
DDC_VCC
DRAIN
2N7002
SOT-23B
GATE SOURCE


RP1 22
RP2 22
RP3 22
RP4 22
RP5 22
RP6 22
RP7 22
RP8 22
RP9 22
CP1 47pF
CP2 47pF
CP3 47pF
CP4 47pF
CP5 47pF
CP6 47pF
CP7 47pF
CP8 47pF
CP9 47pF
PD[0..35]
BE5
BE4
BE3
BE2
BE1
BE0
GE5
GE4
GE3
GE2
GE1
GE0
RE5
RE4
RE3
RE2
RE1
RE0
BO5
BO4
BO3
BO2
BO1
BO0
GO5
GO4
GO3
GO2
GO1
GO0
RO5
RO4
RO3
RO2
RO1
RO0
ICPH
R63 0 L10 22
CPH1
C91 10pF
R64 0 L11 22
CPH2
C92 10pF
CN2
E&T_98210-4011-0.50m
C93 0.1uF
3.3VLCD
L12 STC222B
U15 SI2305DS
LCD3.3VCC
L13 BLM21P300S
CN3
R66 1M
C95 1000pF
C94 100uF/16V
C96 0.1uF
R65 1K
R67 100K
PENVDD
Q6
DTC124EK
COLLECTOR
BASE
EMITTER
SI2305DS
SOT-23
ISTH
ILOAD
IPOL
IREV
ISTV1
ISTV2
ICPV
IOE
R68 22 L14 0
R69 22 L15 0
R70 22 L16 0
R71 22 L17 0
R72 22 L18 0
R73 22 L19 0
R74 22 L20 0
R75 22 L21 0
STH
LOAD
POL
REV
STV1
STV2
CPV
OE
C97 100pF
C98 100pF
C99 100pF
C100 10pF
C101 10pF
C102 10pF
C103 100pF
C104 100pF

MODEL LCD1550V-1 / LCD1550V-1-BK (LA-15R02-1 / LA-15R02-1-BK) POWER SCHEMATIC DIAGRAM (1/1)



MODEL LCD1550V-1 / LCD1550V-1-BK (LA-15R02-1 / LA-15R02-1-BK) INVERTER SCHEMATIC DIAGRAM (1/1)



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP