

# *SERVICE MANUAL*

*notebook*

M550V / M540V





**Notebook Computer**

**M550V/M540V**

**Service Manual**

### Notice

The company reserves the right to revise this publication or to change its contents without notice. Information contained herein is for reference only and does not constitute a commitment on the part of the manufacturer or any subsequent vendor. They assume no responsibility or liability for any errors or inaccuracies that may appear in this publication nor are they in anyway responsible for any loss or damage resulting from the use (or misuse) of this publication.

This publication and any accompanying software may not, in whole or in part, be reproduced, translated, transmitted or reduced to any machine readable form without prior consent from the vendor, manufacturer or creators of this publication, except for copies kept by the user for backup purposes.

Brand and product names mentioned in this publication may or may not be copyrights and/or registered trademarks of their respective companies. They are mentioned for identification purposes only and are not intended as an endorsement of that product or its manufacturer.

Version 1.0  
September 2005

### Trademarks

**Intel®**, **Pentium®** and **Celeron®** are registered trademarks of Intel Corporation.

**Windows®** is a registered trademark of Microsoft Corporation.

Other brand and product names are trademarks and./or registered trademarks of their respective companies.

## About this Manual

This manual is intended for service personnel who have completed sufficient training to undertake the maintenance and inspection of personal computers.

It is organized to allow you to look up basic information for servicing and/or upgrading components of the *M550V*/*M540V* series notebook PC.

The following information is included:

Chapter 1, Introduction, provides general information about the location of system elements and their specifications.

Chapter 2, Disassembly, provides step-by-step instructions for disassembling parts and subsystems and how to upgrade elements of the system.

Appendix A, Part Lists

Appendix B, Schematic Diagrams

Appendix C, Switches

### IMPORTANT SAFETY INSTRUCTIONS

Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock and injury to persons when using any electrical equipment:

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit (DC Output 20V, 3.25A (**65W**) minimum AC/DC Adapter, **OR** by a DC Output 20V, 4.5A (**90W**) minimum AC/DC Adapter if you are using the **optional port replicator**.

### CAUTION

Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.

**TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER,  
TELECOMMUNICATION LINE CORD**

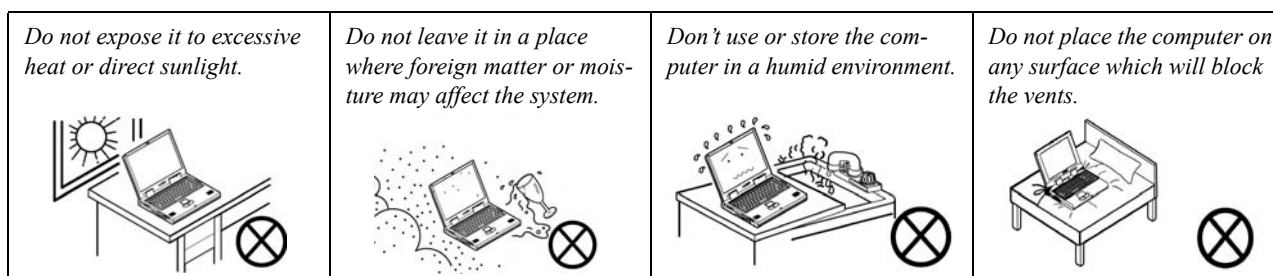
## Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

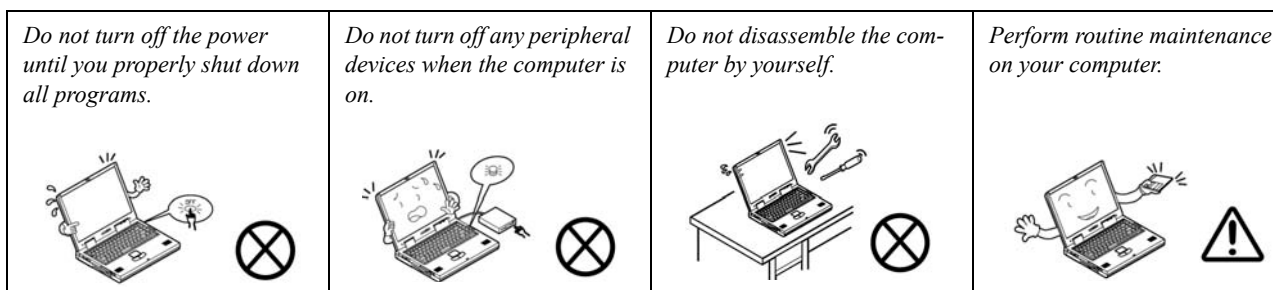
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



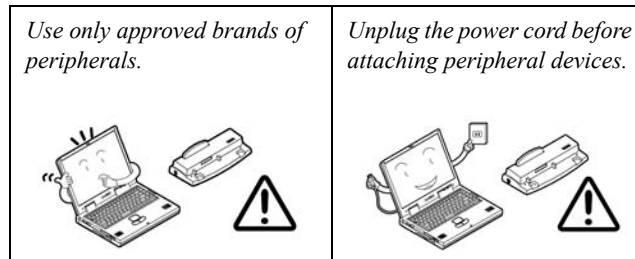
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



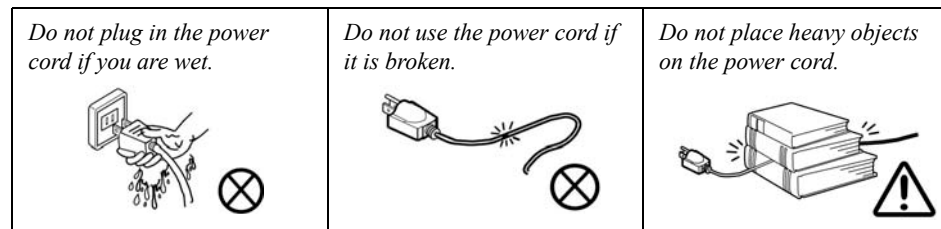
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



## Power Safety

The computer has specific power requirements:

- Only use a power adapter approved for use with this computer.
- Your AC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies.



### Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.



## Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.



### Battery Disposal

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

### Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

### Related Documents

You may also need to consult the following manual for additional information:

#### User's Manual on CD

This describes the notebook PC's features and the procedures for operating the computer and its ROM-based setup program. It also describes the installation and operation of the utility programs provided with the notebook PC.

## Contents

<b>Introduction .....</b>	<b>1-1</b>	<b>Part Lists .....</b>	<b>A-1</b>
Overview .....	1-1	Part List Illustration Location .....	A-2
System Specifications .....	1-2	Top (M550V) .....	A-3
External Locator - Top View with LCD Panel Open .....	1-5	Top (M540V) .....	A-4
External Locator - Front & Right side Views .....	1-6	Bottom (M550V) .....	A-5
External Locator - Left Side & Rear View .....	1-7	Bottom (M540V) .....	A-6
External Locator - Bottom View .....	1-8	LCD (M550V) .....	A-7
M550V Mainboard Overview - Top (Key Parts) .....	1-9	LCD (M540V) .....	A-8
M550V Mainboard Overview - Bottom (Key Parts) .....	1-10	DVD-ROM Drive (M550V/M540V) .....	A-9
M550V Mainboard Overview - Top (Connectors) .....	1-11	Combo Drive (M550V/M540V) .....	A-10
M550V Mainboard Overview - Bottom (Connectors) .....	1-12	DVD-RW Drive (M550V/M540V) .....	A-11
M540V Mainboard Overview - Top (Key Parts) .....	1-13	HDD (M550V) .....	A-12
M540V Mainboard Overview - Bottom (Key Parts) .....	1-14	HDD (M540V) .....	A-13
M540V Mainboard Overview - Top (Connectors) .....	1-15	<b>Schematic Diagrams.....</b>	<b>B-1</b>
M540V Mainboard Overview - Bottom (Connectors) .....	1-16	System Block Diagram .....	B-2
<b>Disassembly .....</b>	<b>2-1</b>	PROCESSOR 1/2 .....	B-3
Overview .....	2-1	PROCESSOR 2/2 .....	B-4
Maintenance Tools .....	2-2	PN800 1/5 .....	B-5
Connections .....	2-2	PN800 2/5 .....	B-6
Maintenance Precautions .....	2-3	PN800 3/5 .....	B-7
Disassembly Steps .....	2-4	PN800 4/5 .....	B-8
Removing the Battery .....	2-5	PN800 5/5 .....	B-9
Removing the Hard Disk Drive .....	2-6	DDR SO-DIMM .....	B-10
Removing the System Memory (RAM) .....	2-8	DDR TERMINATION .....	B-11
Removing the Wireless LAN Module .....	2-10	CLOCK GENERATOR, CCD .....	B-12
Removing the Optical (CD/DVD) Device .....	2-11	PANEL, INVERTER, FAN .....	B-13
Removing the Processor .....	2-12	VIA LVDS VT-1631L .....	B-14
Removing the Keyboard .....	2-14	TV ENCODER .....	B-15
Removing the Modem and Bluetooth Module .....	2-15	VT8237 1/3 .....	B-16

## Preface

---


VT8237 2/3 .....	B-17
VT8237 3/3 .....	B-18
MINI PCI, USB2.0*2 .....	B-19
HDD, CD-ROM, SATA CON .....	B-20
LAN PHY .....	B-21
LPC ROM, TOUCH PAD, LED .....	B-22
IEEE 1934 VT6307S .....	B-23
H8-2111 .....	B-24
MDC, USB BT, PWRGD, DDB CON .....	B-25
AC97 CODEC AL655 .....	B-26
AUDIO AMP, USB2.0*2 .....	B-27
PCMCIA ENE CB714B .....	B-28
PCM SOCKET, 3 IN 1 SOCKET .....	B-29
SYSTEM POWER .....	B-30
+2.5, +1.25V .....	B-31
+VCORE .....	B-32
VCCP, +1.5V .....	B-33
D/D BD (CRT, S-VIDEO, RJ11) .....	B-34
D/D BD (+VDD3, +VDD5, +VDD12) .....	B-35
D/D BD (CHARGER, DC IN) .....	B-36
AUDIO BD (PHONE JACK, USB) .....	B-37
HOT KEY BD (HOT KEY, LED) .....	B-38
LED BOARD .....	B-39
CLICK BOARD .....	B-40
RJ-45 BOARD .....	B-41
USB DANGLE BOARD .....	B-42
<b>Switches.....</b>	<b>C-1</b>

# 1: Introduction

## Overview

This manual covers the information you need to service or upgrade the *M550V/M540V* series notebook computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about drivers (e.g. VGA & audio) is also found in *User's Manual*. That manual is shipped with the computer.

Operating systems (e.g. *DOS*, *Windows 9x*, *Windows NT 4.0*, *Windows 2000*, *Windows XP*, *OS/2 Warp*, *UNIX*, etc.) have their own manuals as do application software (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The *M550V/M540V* series notebook is designed to be upgradeable. See *“Disassembly” on page 2 - 1* for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the “” symbol.

The balance of this chapter reviews the computer's technical specifications and features.

## System Specifications

Feature	Specification	
<b>Processor</b>	Intel Pentium® M Processor (478-pin) Micro-FC-PGA Package Models 730/ 740/ 750/ 760/ 770/ 780	(μ0.09) 0.09 Micron Process Technology 2MB On-die L2 Cache & 533MHz FSB 1.6/ 1.73/ 1.86/ 2/ 2.13/ 2.26 GHz
	Intel Celeron® M Processor (478-pin) Micro-FCPGA Package Models 350/ 360/ 370/ 380/ 390	(μ0.09) 0.09 Micron Process Technology 1MB On-die L2 Cache & 400MHz FSB 1.3/ 1.4/ 1.5/ 1.6/ 1.7 GHz
<b>Core Logic</b>	VIA PN800 + 8235M	
<b>Memory</b>	One 200 Pin SO-DIMM Sockets Supporting <b>DDR</b> 333 / 400 MHz 64-bit Wide DDR Data Channel Memory Expandable up to 1GB (256/ 512/ 1024 MB <b>DDR</b> Modules) ( <b>Note:</b> Do Not Use Other Module Types)	
<b>Security</b>	Security (Kensington® Type) Lock Slot	BIOS Password
<b>BIOS</b>	One 4MB Flash ROM	Phoenix™ BIOS, Plug and Play
<b>LCD</b>	<b>M550V:</b> 15.0" XGA (1024*768) Flat Panel TFT OR 15.0" SXGA+ (1400*1050) Flat Panel TFT	<b>M540V:</b> 14.0" WXGA (1280*768) Flat Panel TFT
<b>Video Adapter</b>	VIA PN800 Integration Shared Memory Architecture of up to <b>64MB</b> of Dynamic Video Memory Allocation Supports Analog Monitor Pixel Resolution up to 1920 * 1400 Integrated 128 bit 3D Graphics Engine Accelerator Supports Dual View for 2 Displays	
<b>Storage</b>	One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive Easy Changeable 2.5" 9.5 mm (h) IDE HDD with PATA (Parallel) Interface Supports ATA 133/ 100/ 66/ 33	

Feature	Specification
<b>Audio</b>	Integrated AC-97 V 2.2 Compliant Interface 3D Stereo Enhanced Sound System Sound-Blaster PRO™ Compatible 2 * Built-In Speakers Built-In Microphone
<b>Keyboard &amp; Pointing Device</b>	Winkey Keyboard Built-In TouchPad with Scrolling Function
<b>PCMCIA</b>	One Type-II PCMCIA CardBus PC Card Slot
<b>Interface</b>	Three USB 2.0 Ports One External Monitor Port (Port Replicator) One Headphone-Out Jack One Microphone-In Jack One Line-In Jack One S/PDIF Output Jack One RJ-11 Jack for Plug & Play Fax/Modem One RJ-45 Jack for 10Mb/ 100Mb Fast Ethernet One DC-in Jack
<b>Card Reader</b>	Embedded 4-in-1 Card Reader (MS/ MS PRO/ SD/ MMC)
<b>Communication</b>	10Mb/ 100Mb Fast Ethernet  ( <b>Optional</b> ) 802.11g Mini-PCI Wireless LAN Module ( <b>Factory Option</b> ) 56K Plug & Play Fax/Modem V.90/ 92 Compliant ( <b>Factory Option</b> ) Bluetooth Module - Version 1.2 ( <b>Factory Option</b> ) 300K or 1.3M PC Camera with USB Interface
<b>Power Management</b>	Supports ACPI 2.0 Power Button as Sleep/Resume Key Supports Hibernate Mode Supports Standby Supports Battery Low Suspend Supports Resume from Modem Ring Supports Wake on LAN
<b>Power</b>	Full Range AC/DC Adapter 20V, 3.25A ( <b>65 Watts</b> ), 100~240V, 47~63Hz Full Range AC/DC Adapter 20V, 4.5A ( <b>90 Watts</b> ), 100~240V, 47~63Hz (If Using the <b>Optional Port Replicator</b> )  6 Cell Smart Lithium-Ion Battery Pack, 4000mAH (44.4W) OR 6 Cell Smart Lithium-Ion Battery Pack, 4400mAH (48.8W)

## Introduction

Feature	Specification	
<b>Environmental Spec</b>	Temperature Operating: 5°C ~ 35°C Non-Operating: -20°C ~ 60°C	Relative Humidity Operating: 20% ~ 80% Non-Operating: 10% ~ 90%
<b>Physical Dimensions &amp; Weight</b>	<u><b>Model A Computers:</b></u> 333mm (w) * 276mm (d) * 24-33mm (h) 2.2 kg Without Battery	<u><b>Model B Computers:</b></u> 333mm (w) * 243mm (d) * 24-33mm (h) 1.9 kg Without Battery
<b>Optional</b>	<b>Optical Drive Module Options:</b> DVD-ROM Drive Module DVD/CD-RW Combo Drive Module DVD-Dual Drive Module  802.11g Wireless LAN Module with Mini-PCI Interface  Charger Box  (Factory Option) 300K or 1.3M PC Camera with USB Interface	(Factory Option) 56K Plug & Play Fax Modem V.90 / V.92 Compliant  Port Replicator (10/100Mb Base-T Ethernet Port, 4 * USB 2.0 Ports, Serial Port, Parallel Port, External Monitor Port, DC-In Jack) (Note: Port Replicator requires the supplied 90W power adapter)  (Factory Option) Bluetooth Module - Version 1.2



## External Locator - Top View with LCD Panel Open

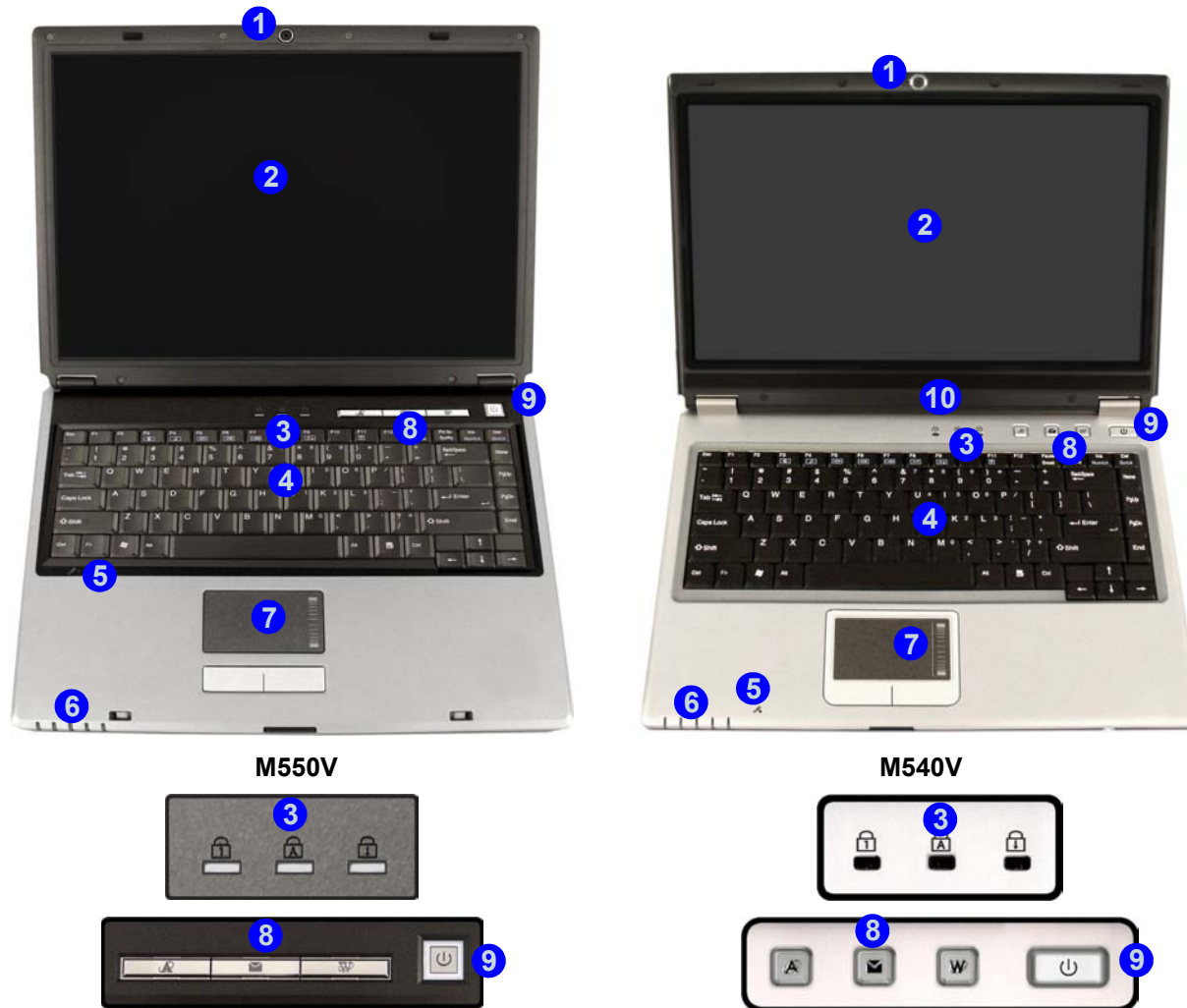


Figure 1  
Top View

1. Optional Built-In PC Camera
2. LCD
3. LED Status Indicators
4. Keyboard
5. Built-In Microphone
6. LED Power & Communication Indicators
7. TouchPad and Buttons
8. Hot-Key Buttons
9. Power Button
10. Speakers

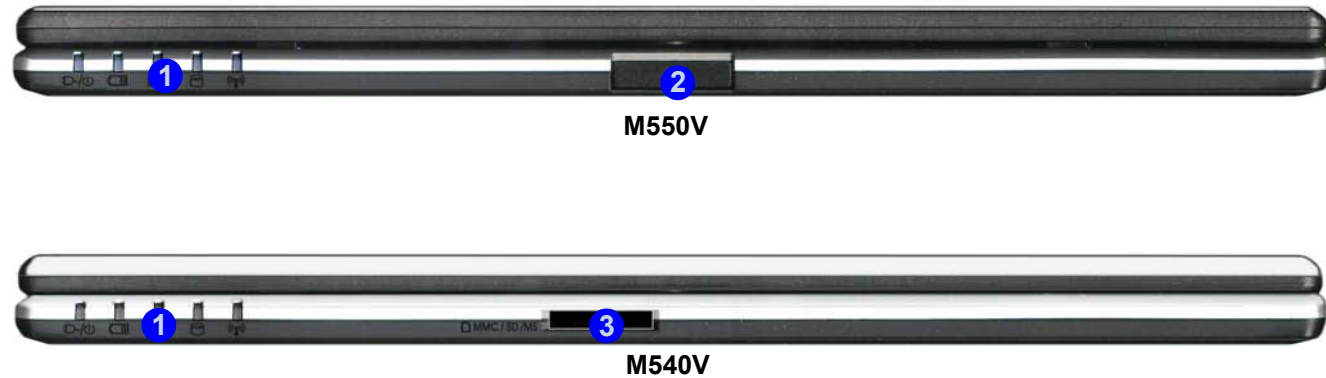
## Introduction

*Figure 2*

### Front Views

1. LED Power & Communication Indicators
2. LCD Latch (**M550V** Only)
3. 4-in-1 Card Reader (**M540V** Only)

## External Locator - Front & Right side Views



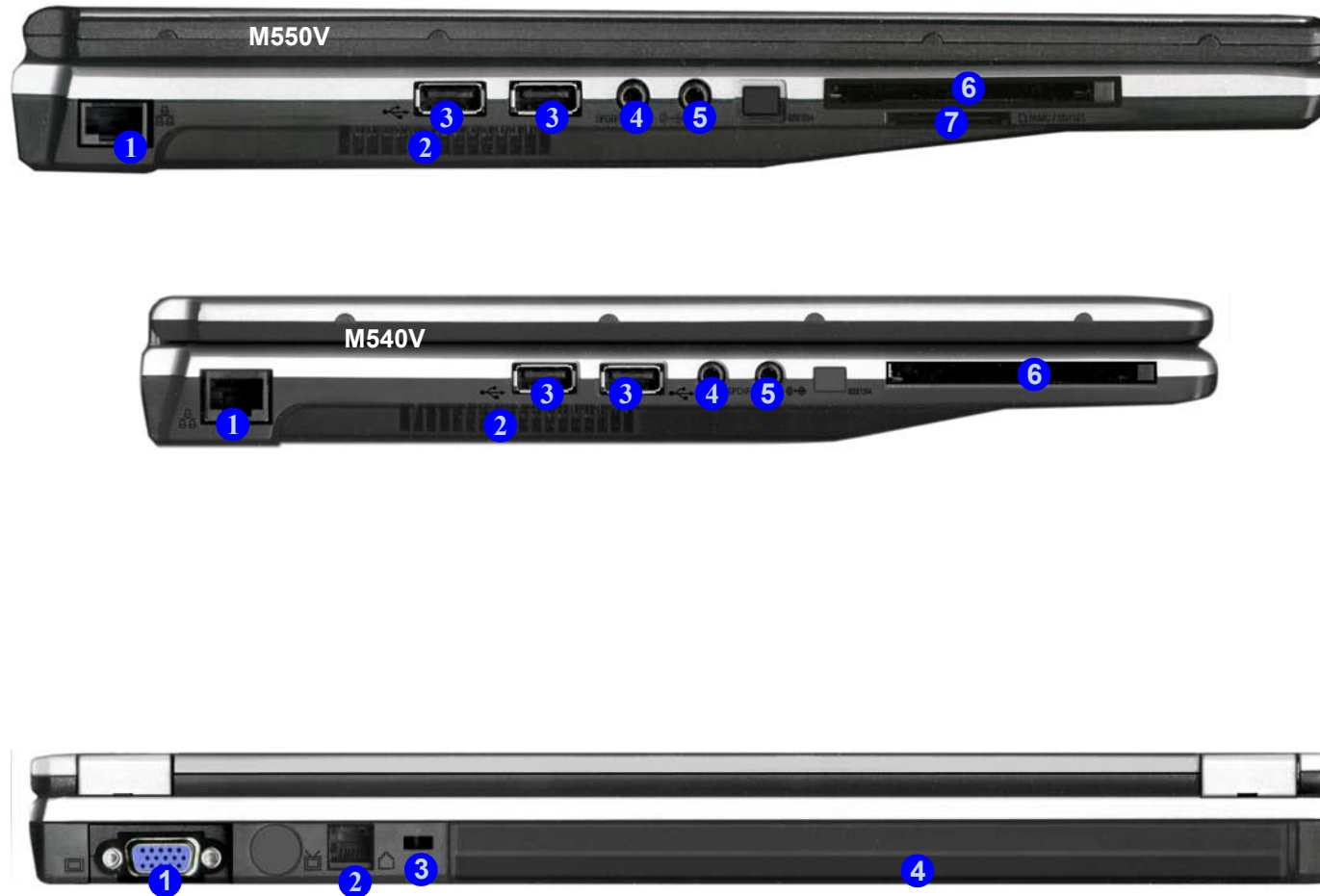
*Figure 3*

### Right Side Views

1. Headphone-Out Jack
2. Microphone-In Jack
3. USB 2.0 Ports
4. Optical Device Drive Bay
5. DC-In Jack



## External Locator - Left Side &amp; Rear View



*Figure 4*  
**Left Side View**

1. RJ-45 LAN Jack
2. Vent/Fan Intake
3. 2 \* USB 2.0 Ports
4. S/PDIF-Out Jack
5. Line-In Jack
6. PC Card Slot
7. 4-in-1 Card Reader (M550V Only)

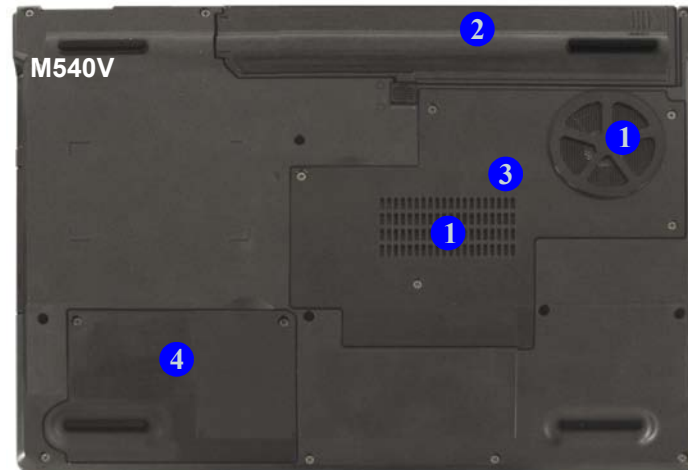
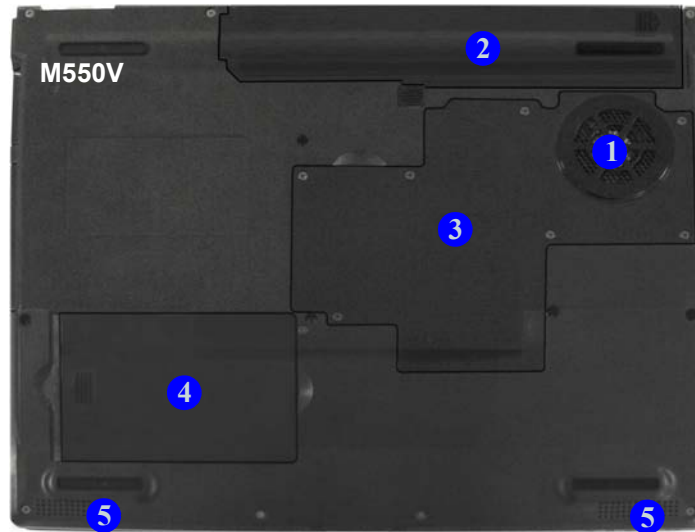
*Figure 5*  
**Rear View**

1. External Monitor Port (Port Replicator)
2. RJ-11 Phone Jack
3. Security Lock Slot
4. Battery

## External Locator - Bottom View

*Figure 6*  
**Bottom View**

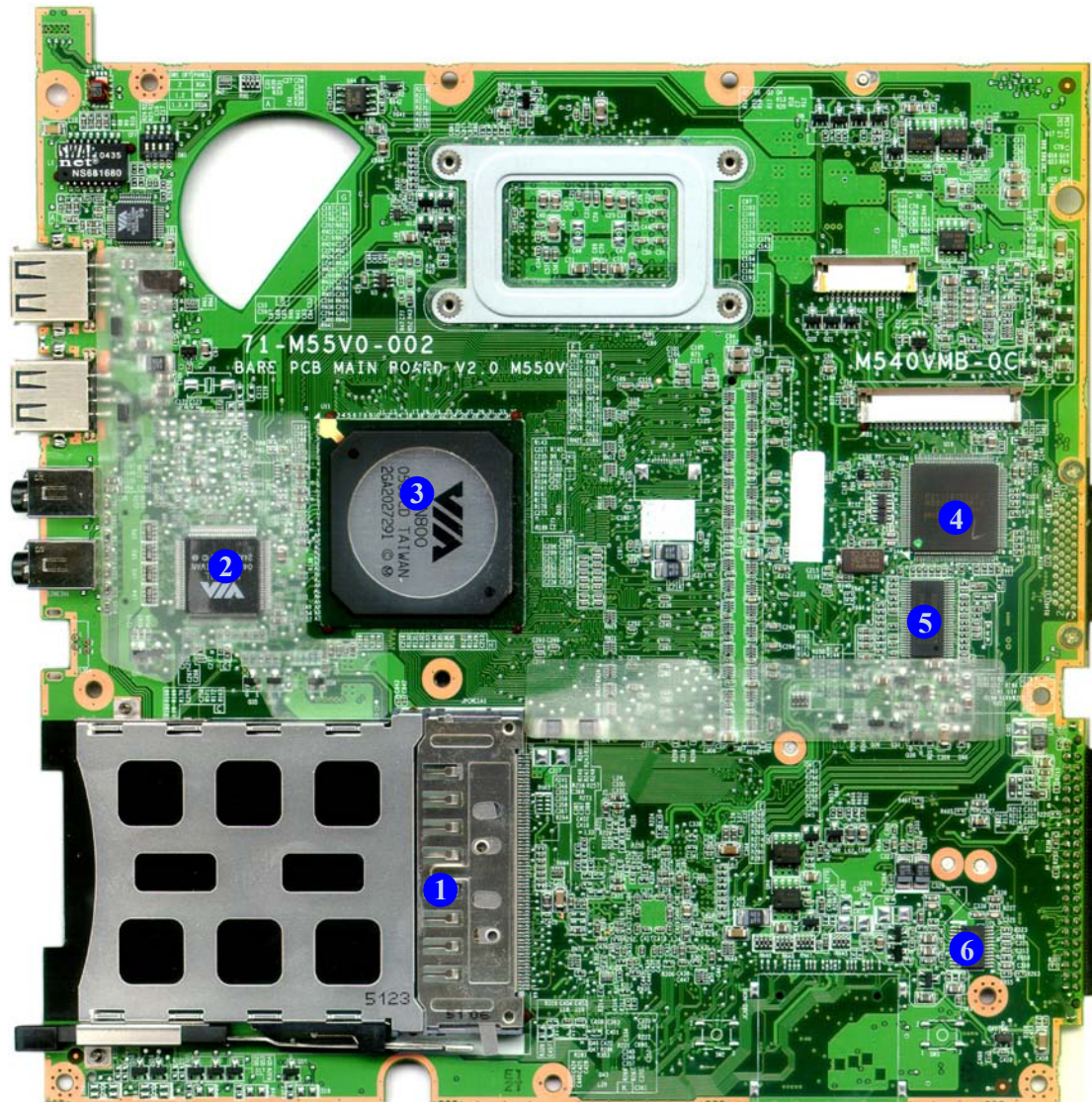
1. Vent/Fan Intake
2. Battery
3. Memory (RAM)/  
WLAN Module/  
CPU Cover
4. Hard Disk Cover
5. Speakers (M550V  
Only)



### Overheating

To prevent your computer from overheating make sure nothing blocks the vent/fan intakes while the computer is in use.

## M550V Mainboard Overview - Top (Key Parts)



*Figure 7*  
**Mainboard Top  
Key Parts**

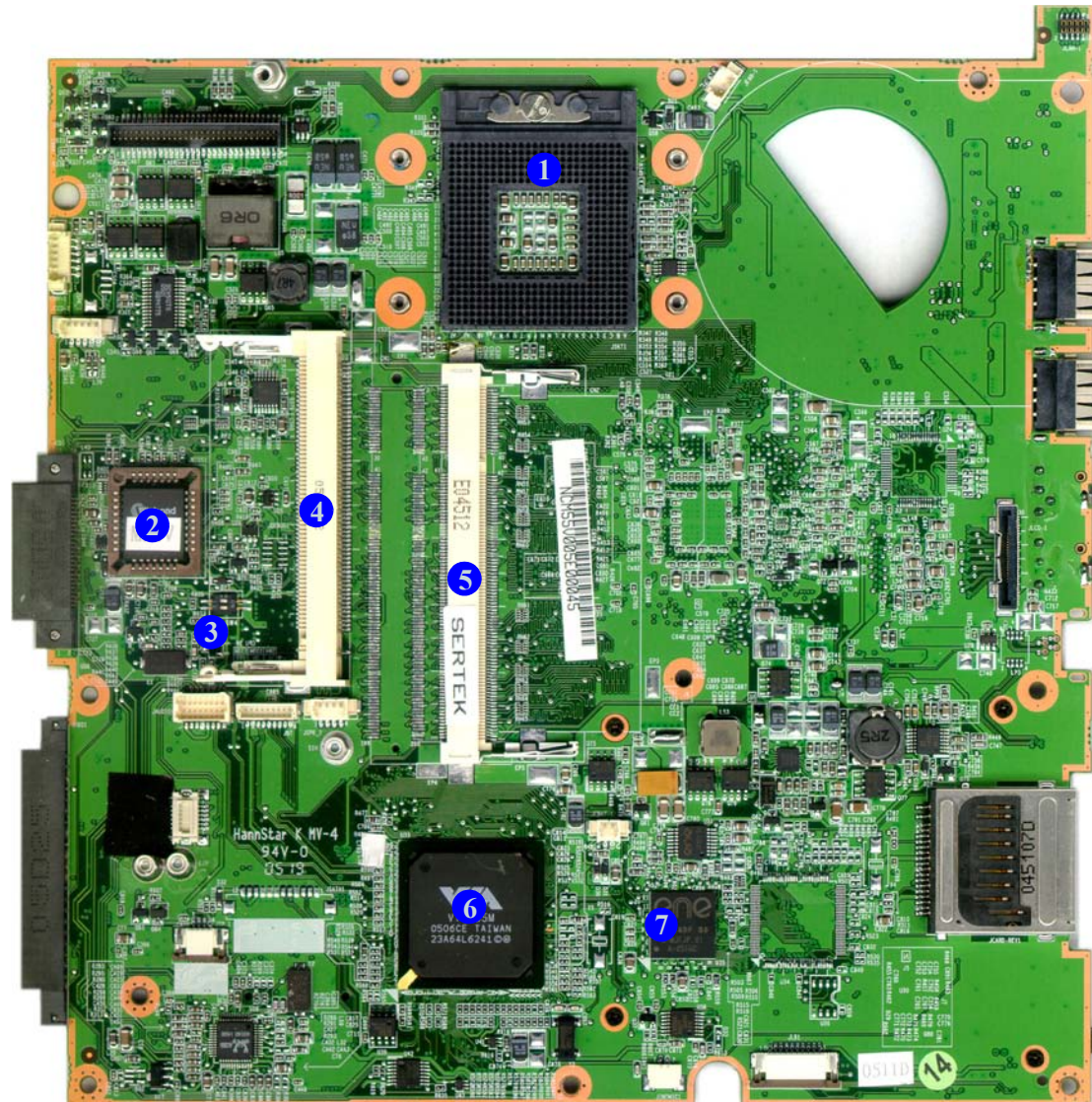
1. PC Card Assembly
2. VIA VT1631L
3. VIA PN800
4. H8/211
5. Clock Generator
6. Audion Amp.

## Introduction

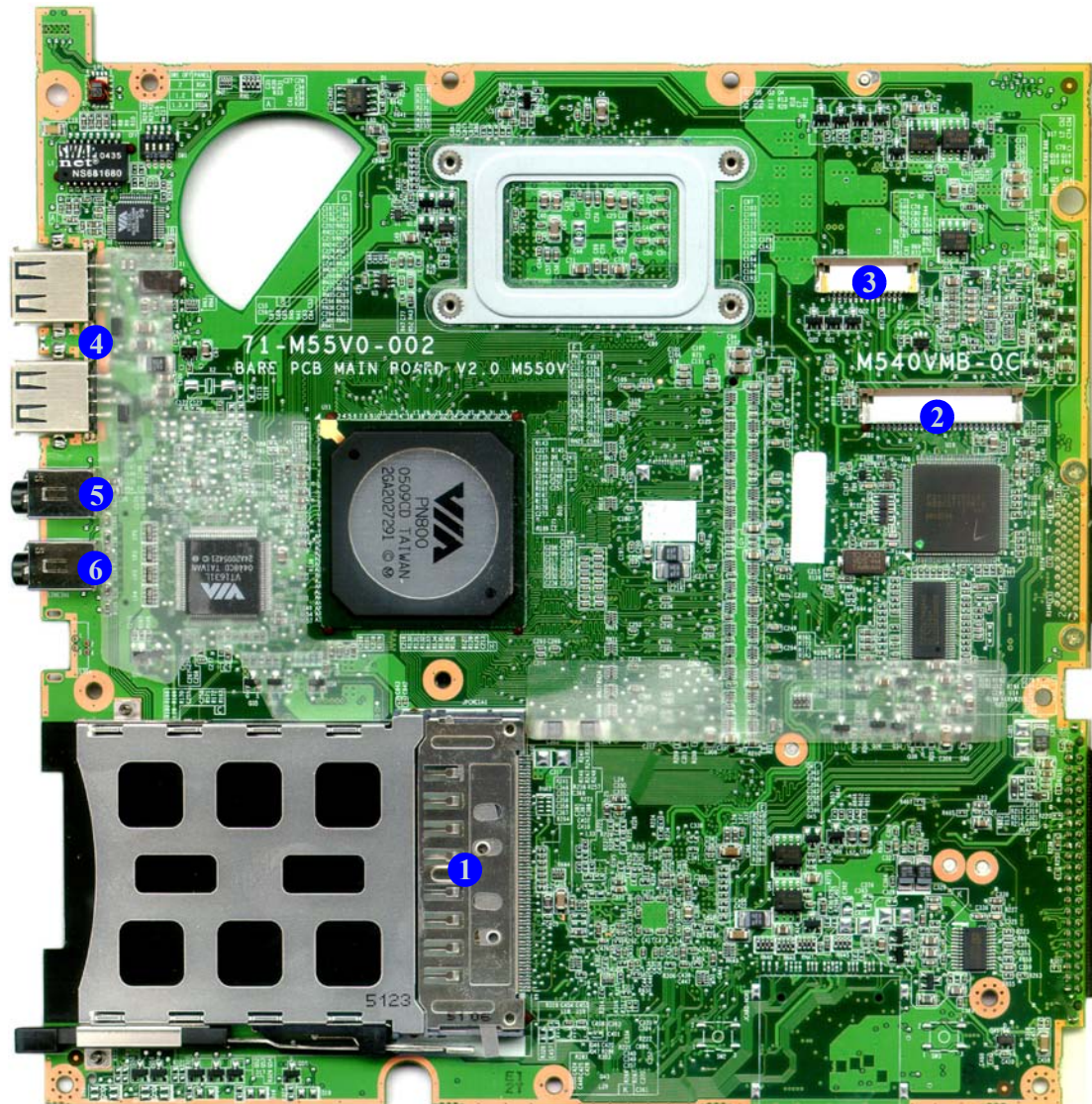
# M550V Mainboard Overview - Bottom (Key Parts)

*Figure 8*  
**Mainboard Bottom  
Key Parts**

1. CPU Socket (no CPU installed)
2. Flash BIOS ROM
3. CPU Frequency Switch
4. Mini-PCI (Wireless Lan Module Connector)
5. Memory Slots DDR So-DIMM
6. Southbridge-VIA VT8235M
7. ENE PCMCIA & Card Control



## M550V Mainboard Overview - Top (Connectors)



*Figure 9*  
**Mainboard Top  
Connectors**

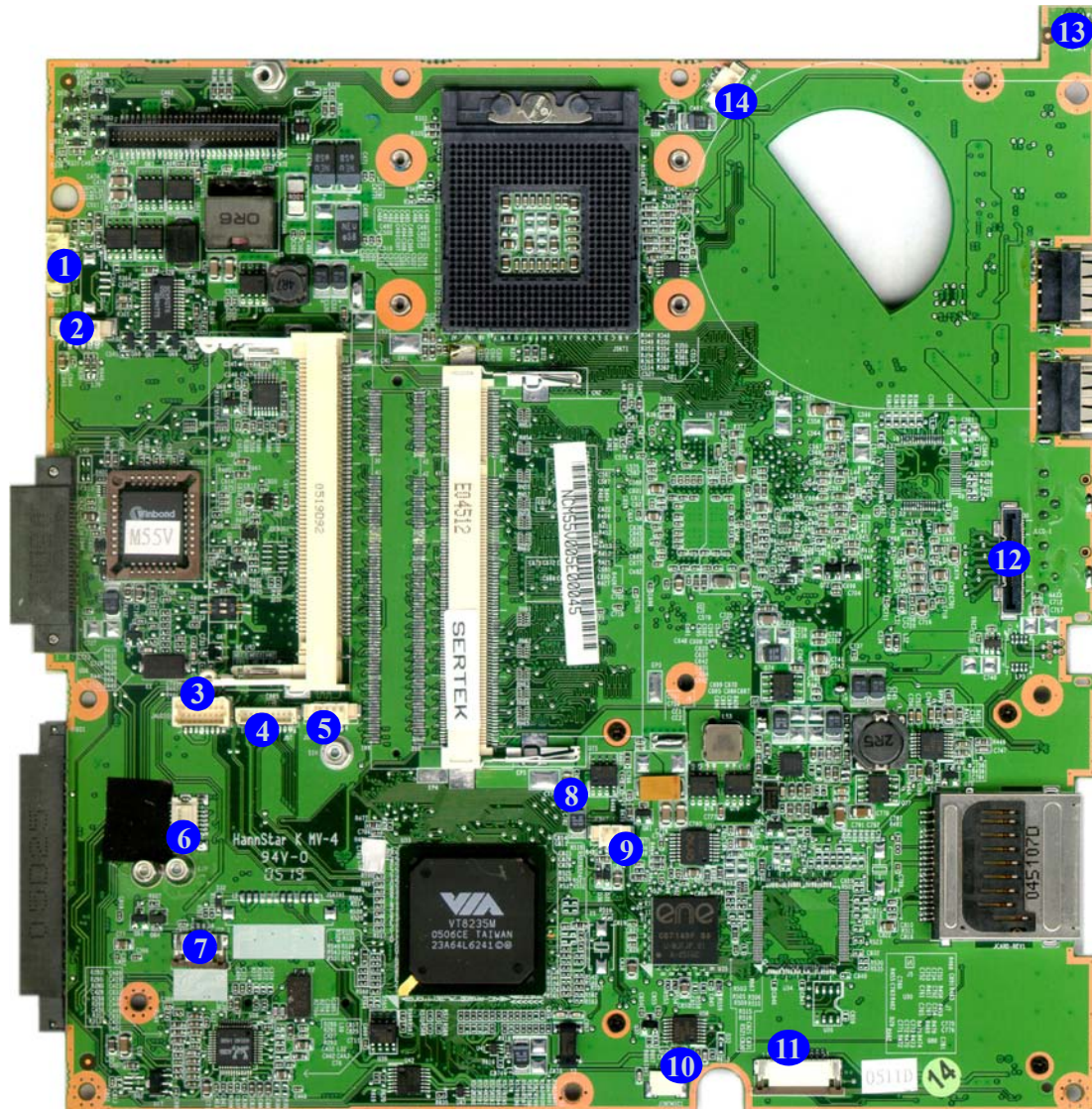
1. PCMCIA Socket
2. Keyboard Connector
3. Hot key board Connector
4. USB Port
5. S/PDIF-Out Jack
6. Line-In Jack

## Introduction

# M550V Mainboard Overview - Bottom (Connectors)

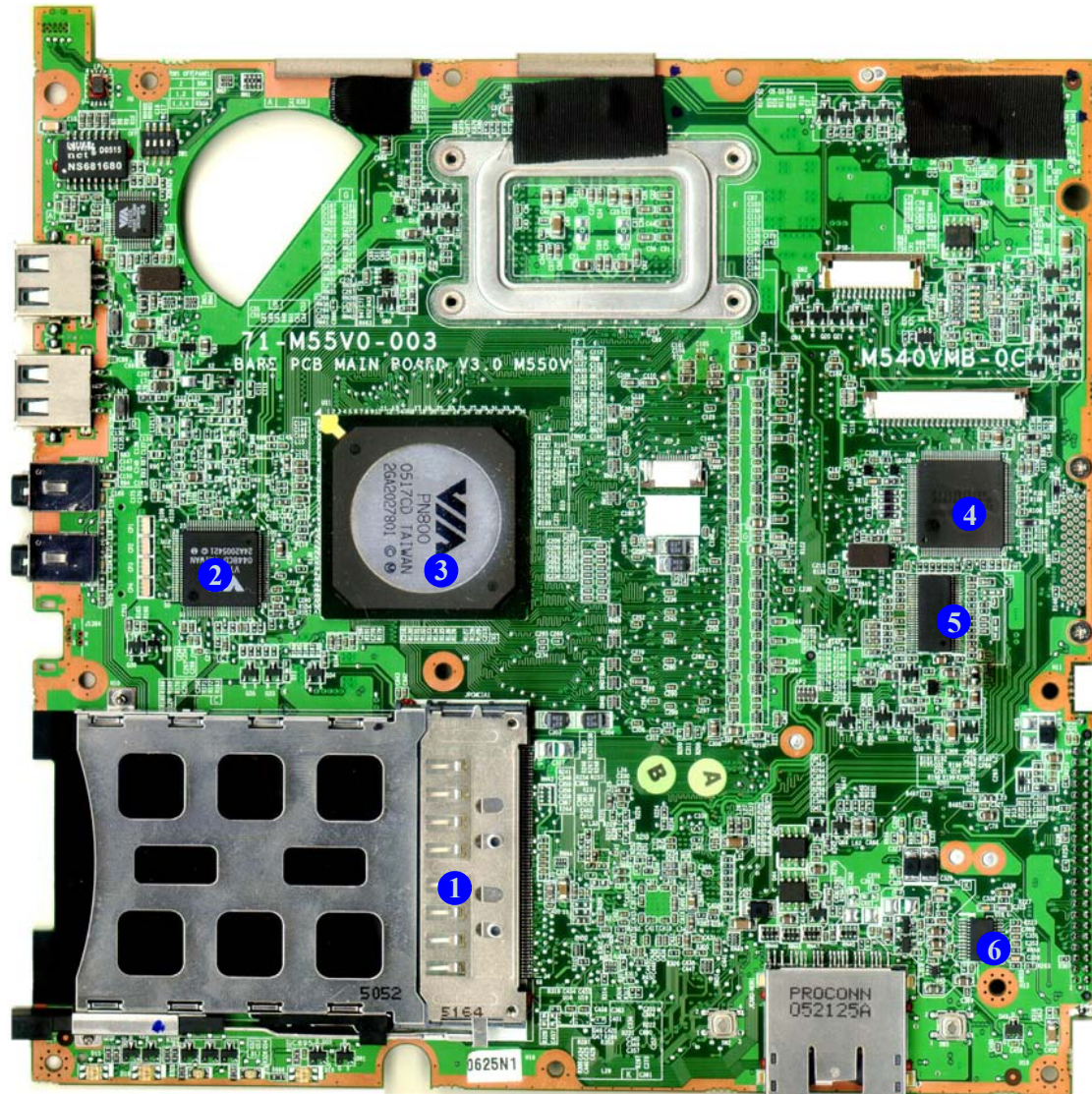
Figure 10  
Mainboard Bottom  
Connectors

1. Inverter Board Connector
2. CCD Cable Connector
3. Audio Board Connector
4. BT Connector
5. Speaker Cable Connector
6. Modem Module Connector
7. Touch Pad Connector
8. Clear CMOS.
9. CMOS Bat. Connector
10. Microphone Cable Connector
11. LED Board
12. LCD Connector
13. LAN Board Connector
14. Fan CPU Cable Connector





## M540V Mainboard Overview - Top (Key Parts)



*Figure 11*  
**Mainboard Top  
Key Parts**

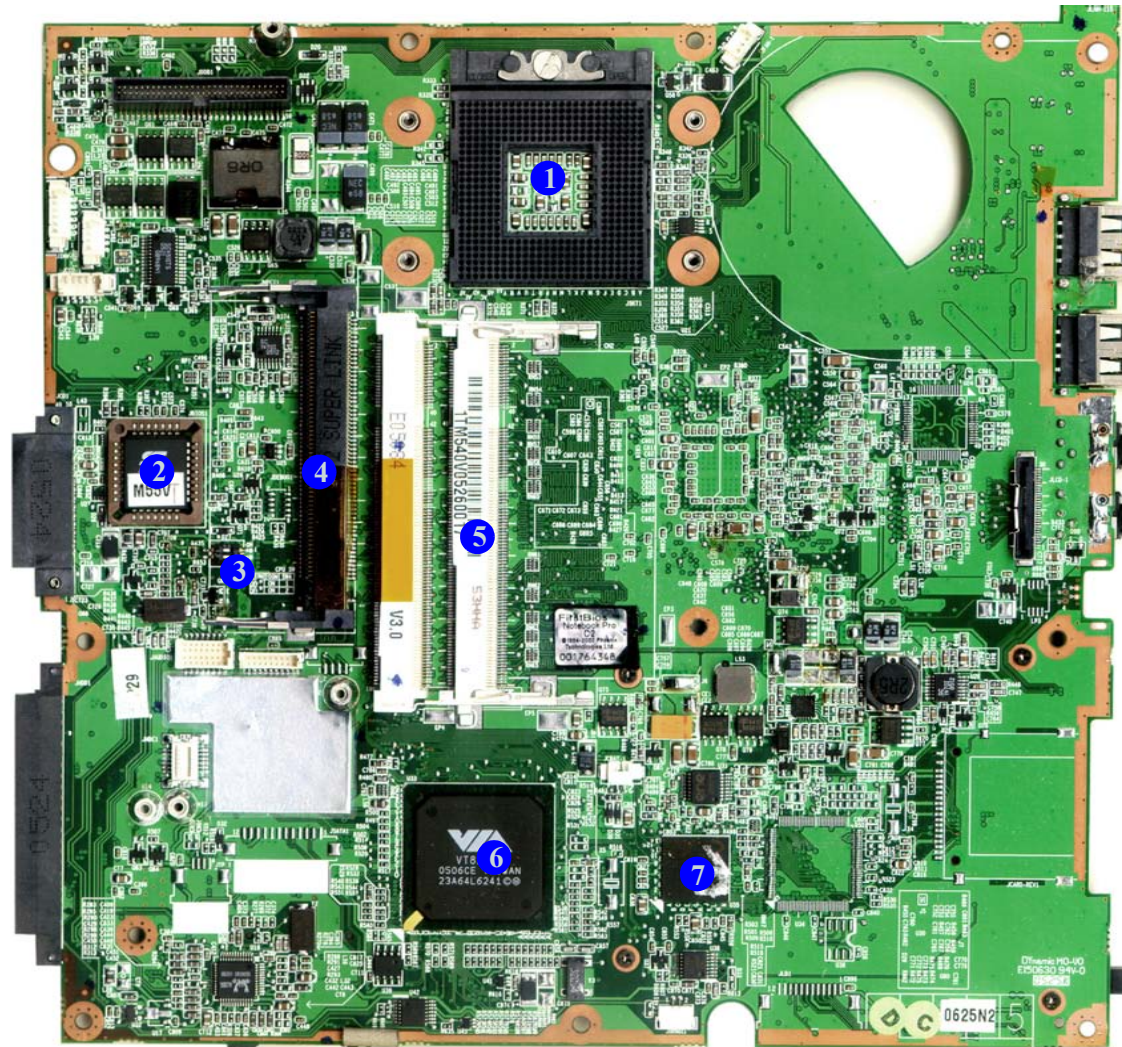
1. PC Card Assembly
2. VIA VT1631L
3. VIA PN800
4. H8/211
5. Clock Generator
6. Audio Apm.

## Introduction

# M540V Mainboard Overview - Bottom (Key Parts)

Figure 12  
Mainboard Bottom  
Key Parts

1. CPU Socket (no CPU installed)
2. Flash BIOS ROM
3. CPU Frequency Switch
4. Mini-PCI (Wireless Lan Module) Connector
5. Memory Slots DDR So-DIMM
6. Southbridge-VIA VT8235M
7. ENE PCMCIA & Card Control



## M540V Mainboard Overview - Top (Connectors)

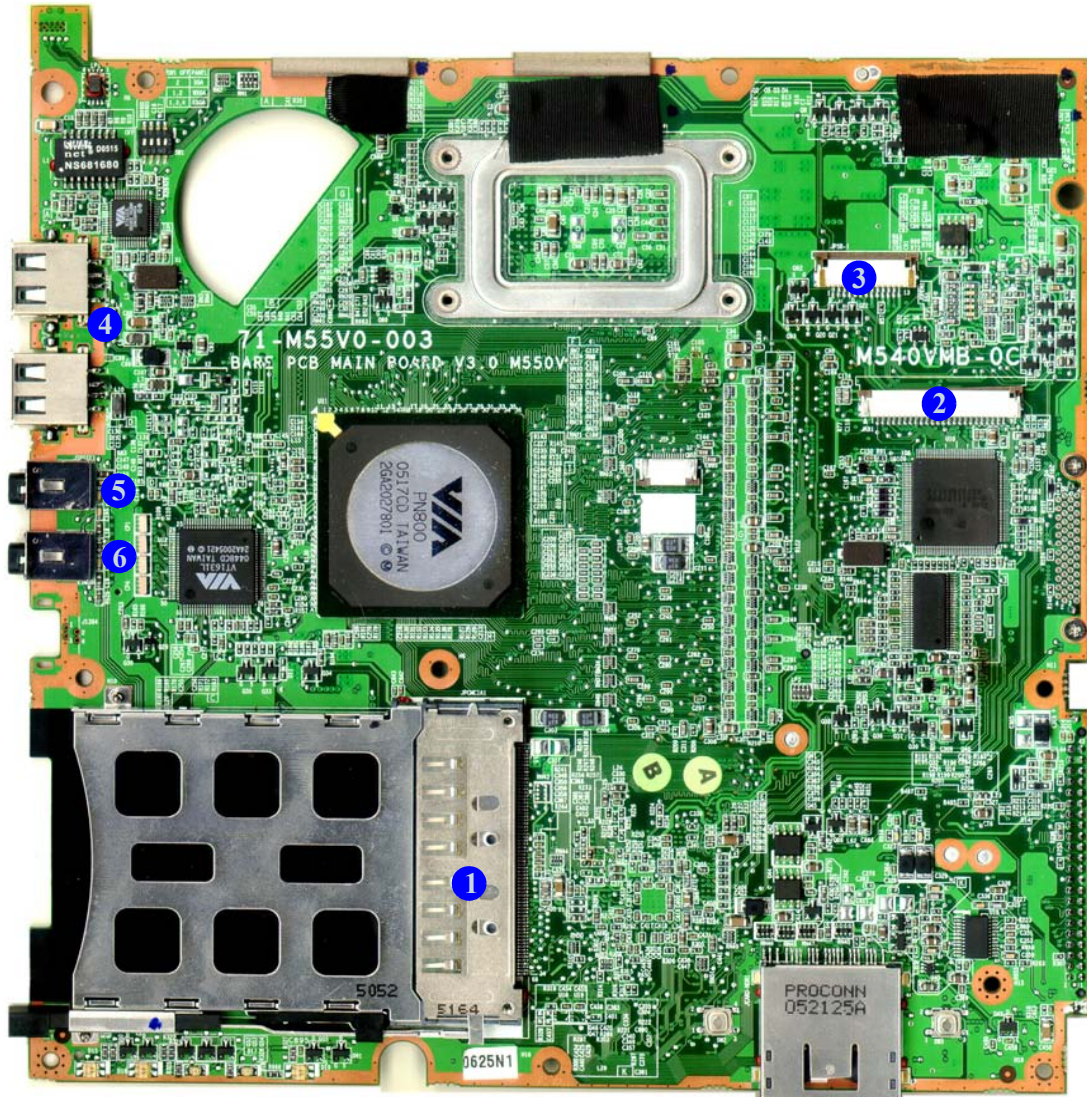


Figure 13  
Mainboard Top  
Connectors

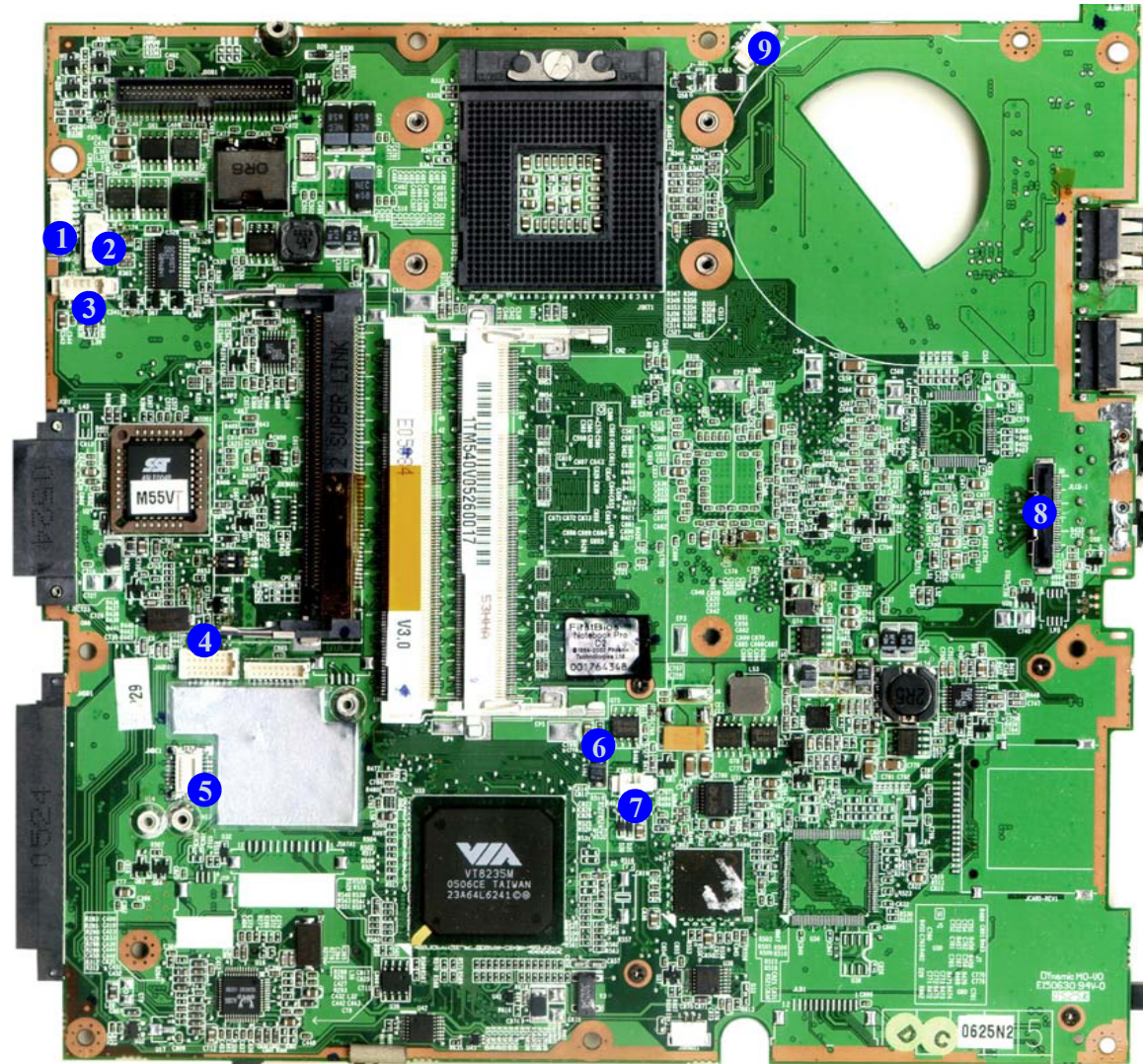
1. PCMCIA Socket
2. Keyboard Connector
3. Hot key board Connector
4. USB Port
5. S/PDIF-Out Jack
6. Line-In Jack

## Introduction

# M540V Mainboard Overview - Bottom (Connectors)

Figure 14  
Mainboard Bottom  
Connectors

1. Inverter Board Connector
2. Speaker Cable connector
3. CCD Cable Connector
4. Audio Board Connector
5. Modem Module Connector
6. Clear CMOS.
7. CMOS Bat. Connector
8. LCD Connector
9. Fan CPU Cable Connector




# 2: Disassembly



## Overview

This chapter provides step-by-step instructions for disassembling the *M550V/M540V* series notebook's parts and sub-systems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

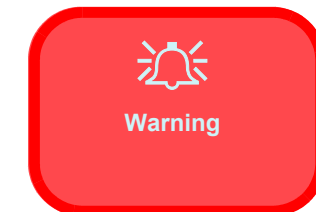
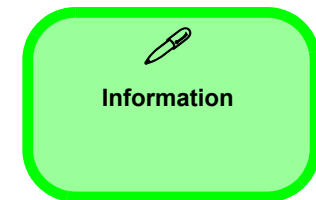
We suggest you completely review any procedure before you take the computer apart.

Procedures such as upgrading/replacing the RAM, CD device and hard disk are included in the User's Manual but are repeated here for your convenience.

To make the disassembly process easier each section may have a box in the page margin. Information contained under the figure # will give a synopsis of the sequence of procedures involved in the disassembly procedure. A box with a  lists the relevant parts you will have after the disassembly process is complete. **Note:** The parts listed will be for the disassembly procedure listed ONLY, and not any previous disassembly step(s) required. Refer to the part list for the previous disassembly procedure. The amount of screws you should be left with will be listed here also.

A box with a  will also provide any possible helpful information. A box with a  contains warnings.

An example of these types of boxes are shown in the sidebar.



## Disassembly

---

**NOTE:** All disassembly procedures assume that the system is turned **OFF**, and disconnected from any power supply (the battery is removed too).

### Maintenance Tools

The following tools are recommended when working on the notebook PC:

- M3 Philips-head screwdriver
- M2.5 Philips-head screwdriver (magnetized)
- M2 Philips-head screwdriver
- Small flat-head screwdriver
- Pair of needle-nose pliers
- Anti-static wrist-strap

### Connections

Connections within the computer are one of four types:

Locking collar sockets for ribbon connectors	To release these connectors, use a small flat-head screwdriver to gently pry the locking collar away from its base. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Pressure sockets for multi-wire connectors	To release this connector type, grasp it at its head and gently rock it from side to side as you pull it out. Do not pull on the wires themselves. When replacing the connection, do not try to force it. The socket only fits one way.
Pressure sockets for ribbon connectors	To release these connectors, use a small pair of needle-nose pliers to gently lift the connector away from its socket. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Board-to-board or multi-pin sockets	To separate the boards, gently rock them from side to side as you pull them apart. If the connection is very tight, use a small flat-head screwdriver - use just enough force to start.

## Maintenance Precautions

The following precautions are a reminder. To avoid personal injury or damage to the computer while performing a removal and/or replacement job, take the following precautions:

1. **Don't drop it.** Perform your repairs and/or upgrades on a stable surface. If the computer falls, the case and other components could be damaged.
2. **Don't overheat it.** Note the proximity of any heating elements. Keep the computer out of direct sunlight.
3. **Avoid interference.** Note the proximity of any high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage components and/or data. You should also monitor the position of magnetized tools (i.e. screwdrivers).
4. **Keep it dry.** This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
5. **Be careful with power.** Avoid accidental shocks, discharges or explosions.
  - Before removing or servicing any part from the computer, turn the computer off and detach any power supplies.
  - When you want to unplug the power cord or any cable/wire, be sure to disconnect it by the plug head. Do not pull on the wire.
6. **Peripherals** – Turn off and detach any peripherals.
7. **Beware of static discharge.** ICs, such as the CPU and main support chips, are vulnerable to static electricity. Before handling any part in the computer, discharge any static electricity inside the computer. When handling a printed circuit board, do not use gloves or other materials which allow static electricity buildup. We suggest that you use an anti-static wrist strap instead.
8. **Beware of corrosion.** As you perform your job, avoid touching any connector leads. Even the cleanest hands produce oils which can attract corrosive elements.
9. **Keep your work environment clean.** Tobacco smoke, dust or other air-borne particulate matter is often attracted to charged surfaces, reducing performance.
10. **Keep track of the components.** When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

## Cleaning

Do not apply cleaner directly to the computer, use a soft clean cloth.

Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.



### Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

### Disassembly Steps

The following table lists the disassembly steps, and on which page to find the related information. **PLEASE PERFORM THE DISASSEMBLY STEPS IN THE ORDER INDICATED.**

#### To remove the Battery:

1. Remove the battery [page 2 - 5](#)

#### To remove the HDD:

1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)

#### To remove the System Memory:

1. Remove the battery [page 2 - 5](#)
2. Remove the system memory [page 2 - 8](#)

#### To remove the Wireless LAN Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the wireless LAN [page 2 - 10](#)

#### To remove the System Memory:

1. Remove the battery [page 2 - 5](#)
2. Remove the system memory [page 2 - 8](#)

#### To remove the Optical Device:

1. Remove the battery [page 2 - 5](#)
2. Remove the Optical device [page 2 - 11](#)

#### To remove the Processor:

1. Remove the battery [page 2 - 5](#)
2. Remove the processor [page 2 - 12](#)

#### To remove the Keyboard:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 14](#)

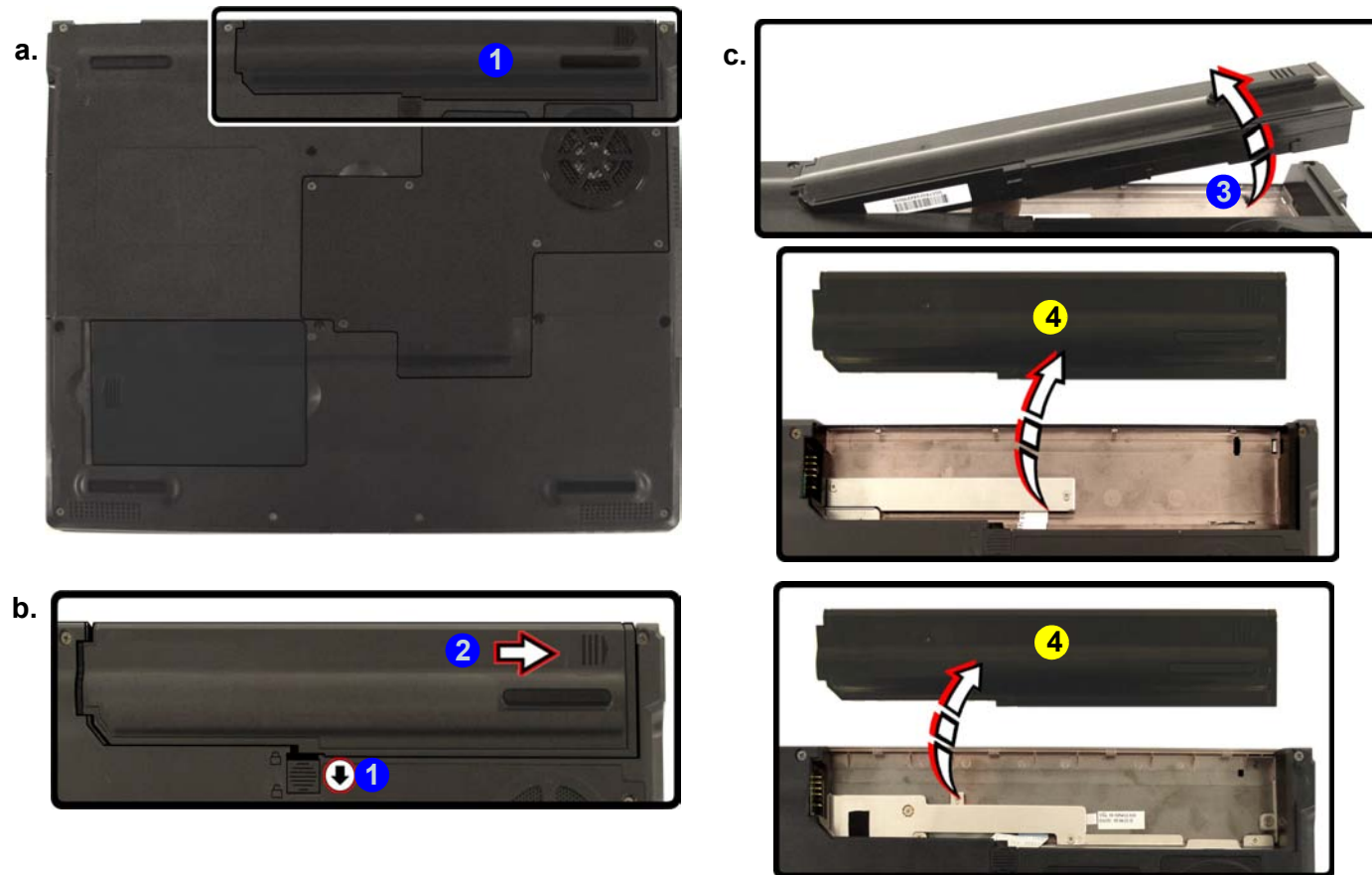
#### To remove the Modem and Bluetooth Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)
3. Remove the Optical device [page 2 - 11](#)
4. Remove the CPU heat sink [page 2 - 12](#)
5. Remove the keyboard [page 2 - 14](#)
6. Remove the modem and bluetooth [page 2 - 15](#)



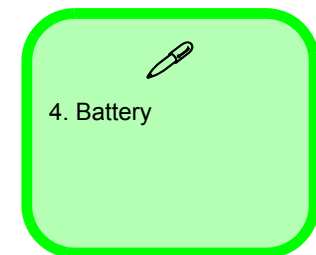
## Removing the Battery

1. Turn the computer **off**, and turn it over.
2. Locate the battery bay at point **1** (*Figure 1a*).
3. Slide the latch **1** in the direction of the arrow, and hold it in place.
4. Slide the battery in the direction of the arrow **2**
5. Lift the battery out in the direction of the arrow **3** then lift the battery **4** out.



*Figure 1*  
**Battery Removal**

- a. Locate the battery release latch.
- b. Slide the latch and hold in place, and slide the battery in the direction of the arrow.
- c. Lift the battery out.



# Removing the Hard Disk Drive

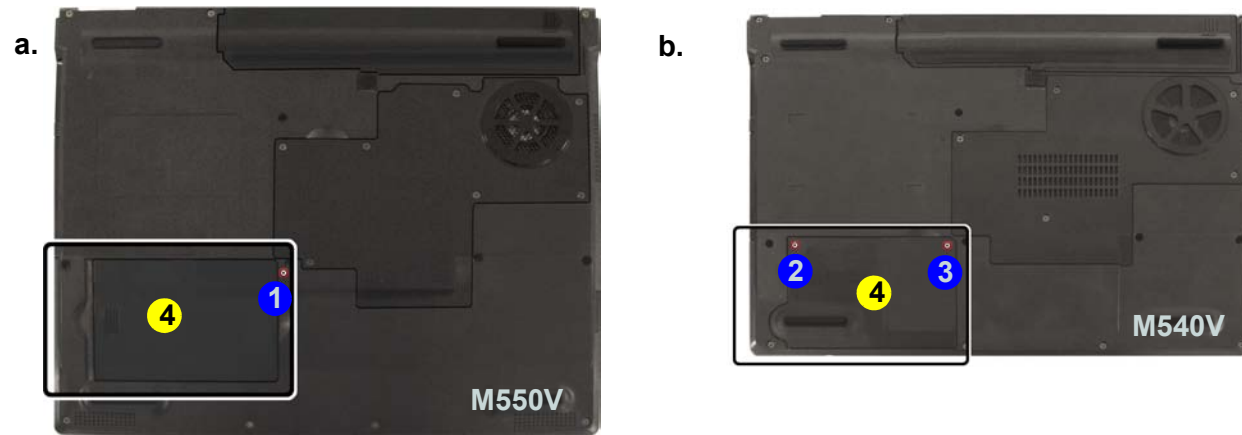
The hard disk drive is mounted in a removable case and can be taken out to accommodate other 2.5" IDE hard disk drives with a height of 9.5mm (h). Follow your operating system's installation instructions, and install all necessary drivers and utilities (as outlined in **Chapter 4 of the User's Manual**) when setting up a new hard disk.

*Figure 2*  
**HDD Assembly Removal**

- a. Locate the HDD bay cover.
- b. Remove the screws.

## Hard Disk Upgrade Process

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Locate the hard disk bay cover **4** and remove screw **1** **M550V**, OR screws **2** - **3** **M540V**



### 4. HDD Bay Cover

- 1 Screw (M550V)
- 2 Screws (M540V)



### HDD System Warning

New HDD's are blank. Before you begin make sure:

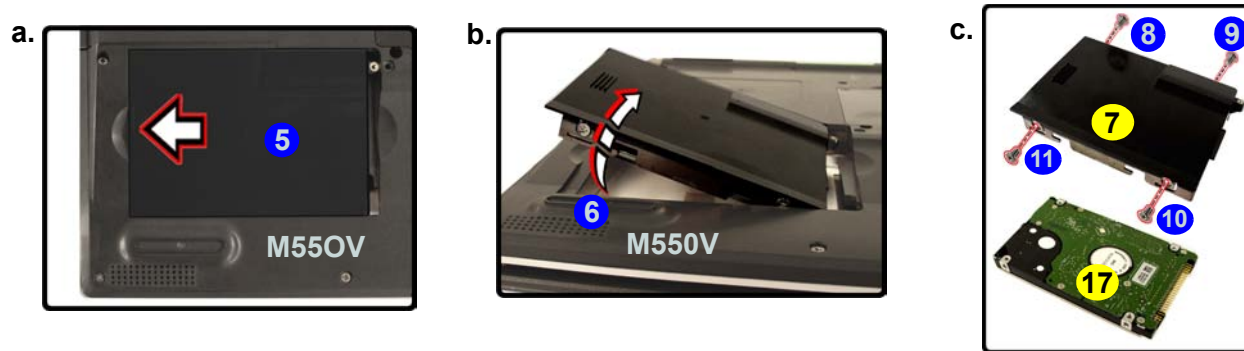
You have backed up any data you want to keep from your old HDD.

You have all the CD-ROMs and FDDs required to install your operating system and programs.

If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

For **M550V** computers:

3. Slide the hard disk and cover assembly in the direction of arrow **5**.
4. Lift the hard disk and cover assembly up in the direction of arrow **6**.
5. Remove the hard disk and cover assembly **7**.
6. Remove screws **8** - **11** to release the hard disk from the assembly cover, and reverse the process to install any new hard disk.

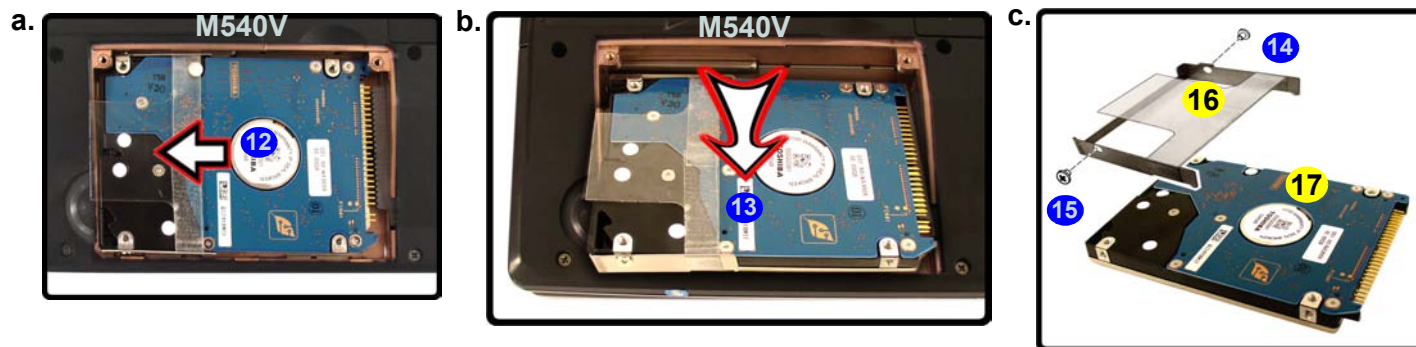


*Figure 3*  
**HDD & Case Assembly Removal**

- a. Slide out the HDD assembly.
- b. Lift the HDD assembly out of the bay.
- c. Remove the screws and separate the cover and HDD.

For **M540V** computers:

7. Pull the tab to slide the hard disk and case assembly in the direction of arrow **12**.
8. Lift the hard disk and case assembly out of the bay in the direction of arrow **13**.
9. Remove screws **14** - **15** to release the hard disk **17** from the case **16**, and reverse the process to install any new hard disk.





7. HDD Case  
16. HDD Case  
17. HDD

- 5 Screws (M550V)
- 4 Screws (M540V)

## Disassembly

*Figure 4*  
**RAM Module  
Removal**

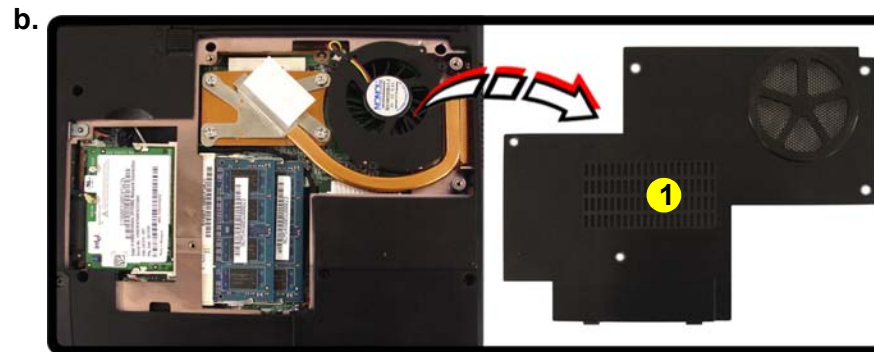
- Remove the screws.
- Remove the cover.

## Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDR 333/400MHz**. The main memory can be expanded up to 1GB. The SO-DIMM modules supported are 256MB, 512MB and 1024MB **DDR** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

### Memory Upgrade Process

- Turn **off** the computer, remove the battery ([page 2 - 5](#)).
- Locate the RAM bay cover **1**, and remove screws **2 - 8** (for **M550V**) OR screws **2 - 6** (for **M540V**).
- Remove the bay cover **1**.



### Contact Warning

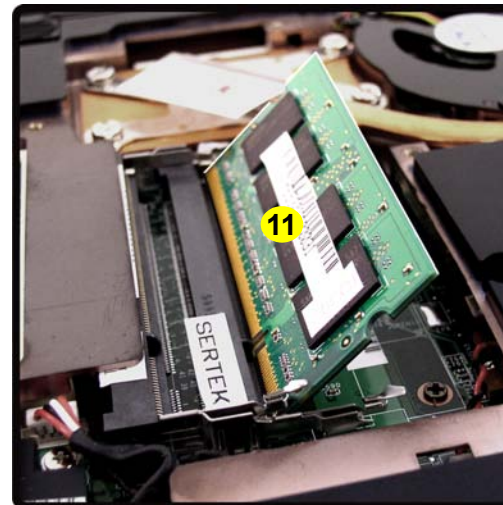
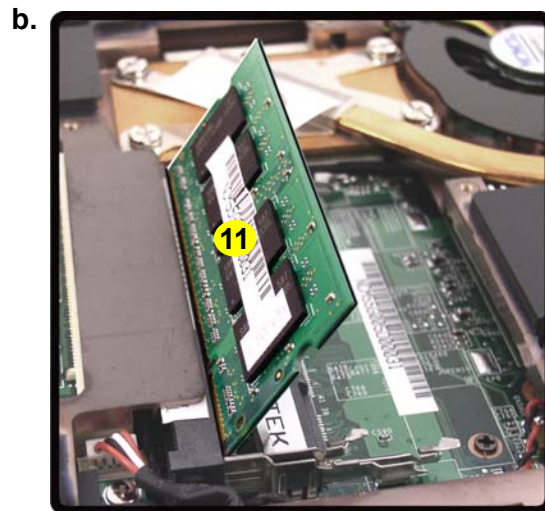
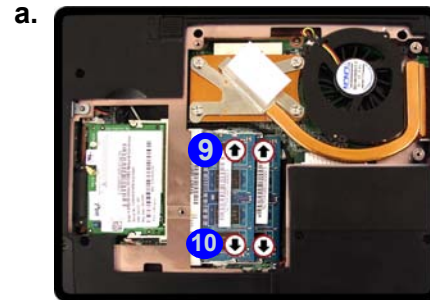
Be careful not to touch the metal pins on the module's connecting edge. Even the cleanest hands have oils which can attract particles, and degrade the module's performance.



### 1. RAM Bay Cover

- 7 Screws (M550V)
- 5 Screws (M540V)

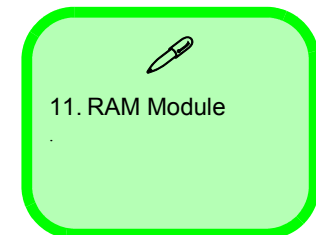
- Gently pull the two release latches (9 & 10) on the sides of the memory socket in the direction indicated by the arrows (**Figure 7a**).
- The RAM module(s) 11 will pop-up (**Figure 7b**), and you can then remove it.



*Figure 5*  
**Memory Removal Sequence**

- Pull the release latch(es).
- Remove the module(s).

- Pull the latches to release the second module if necessary.
- Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
- The module will only fit one way as defined by its pin alignment. Make sure the module is seated as far into the slot as it will go. **DO NOT FORCE IT**; it should fit without much pressure.
- Press the module down towards the mainboard until the slot levers click into place to secure the module.
- Replace the memory socket cover and the screws (see [page 2 - 8](#)).
- Restart the computer to allow the BIOS to register the new memory configuration as it starts up.



## Disassembly

*Figure 6*  
**Wireless LAN  
 Module Removal**

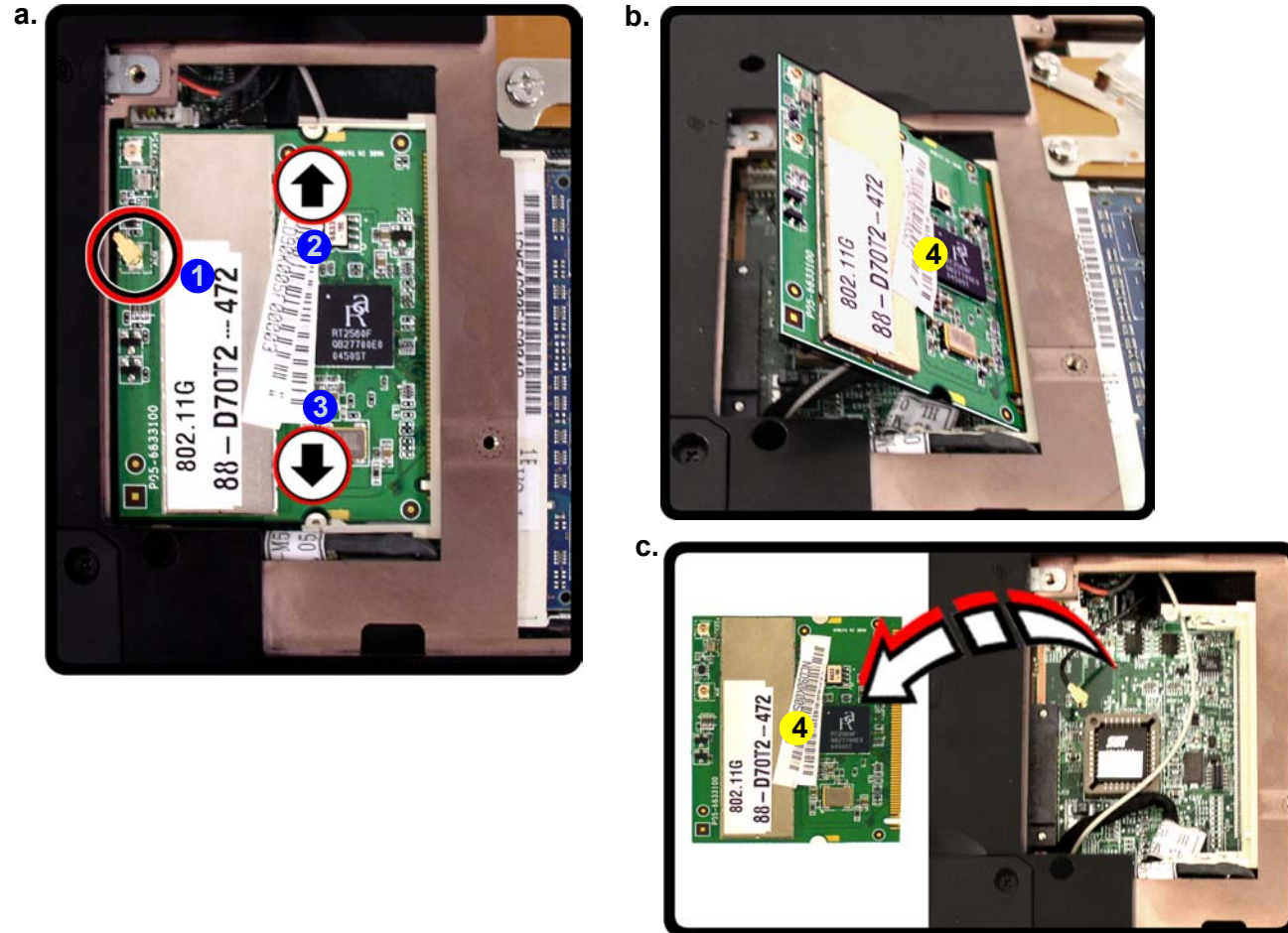
- Disconnect the cable and pull the release latches.
- The WLAN module will pop up.
- Remove the wireless LAN module.

Note: Make sure you re-connect the antenna cable to the "Main" socket (*Figure 6a*).

4. Wireless LAN Module

## Removing the Wireless LAN Module

- Turn **off** the computer, remove the battery (*page 2 - 5*) and the RAM bay cover (*page 2 - 8*).
- Carefully disconnect cable **1**, then gently pull the two release latches (**2** - **3**) on the sides of the module socket.
- The Wireless LAN Module **4** (*Figure 6b*) will pop-up, and you can remove it.

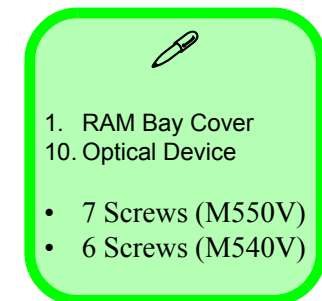
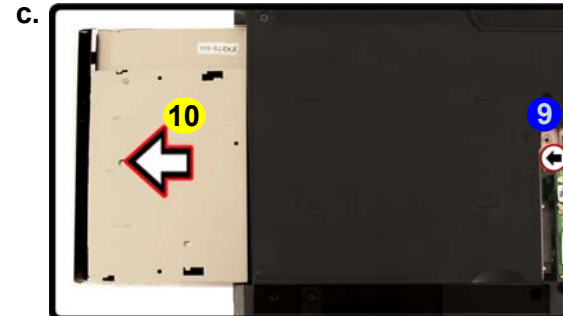
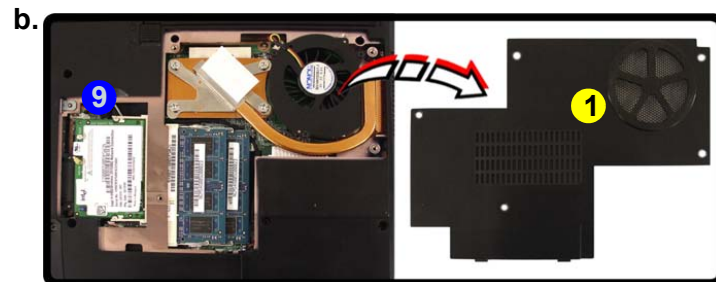
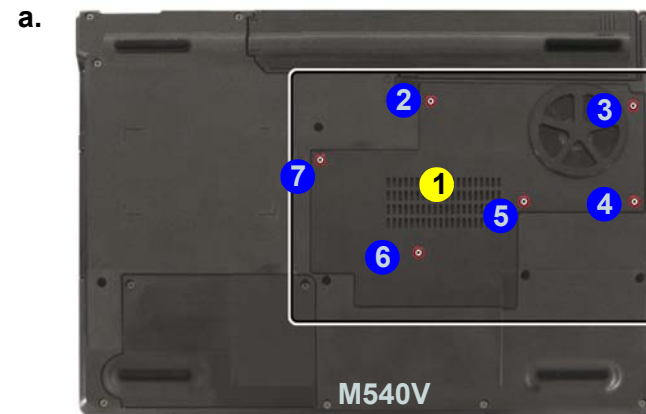
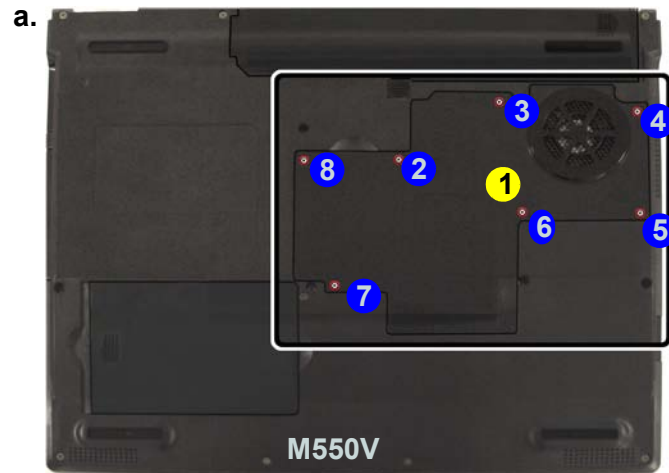


## Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#))
2. Locate the RAM bay cover **1**, and remove screws **2** - **8** (for **M550V**) OR screws **2** - **7** (for **M540V**).
3. Remove the bay cover **1**.
4. Use a screwdriver to carefully push out the optical device **10** at point **9**.
5. Insert the new device and carefully slide it into the computer (the device only fits one way. DO NOT FORCE IT; The screw holes should line up.
6. Restart the computer to allow it to automatically detect the new device.

*Figure 7*  
**Optical Device Removal**

- a. Remove the screws.
- b. Remove the cover.
- c. Push the optical device out off the computer at point 9.



## Disassembly

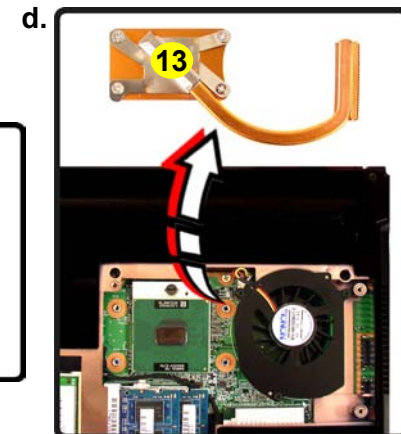
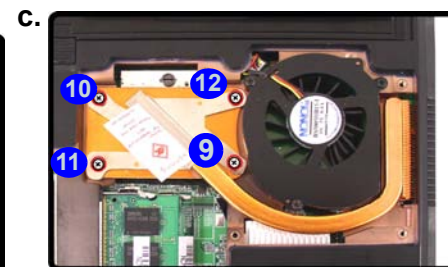
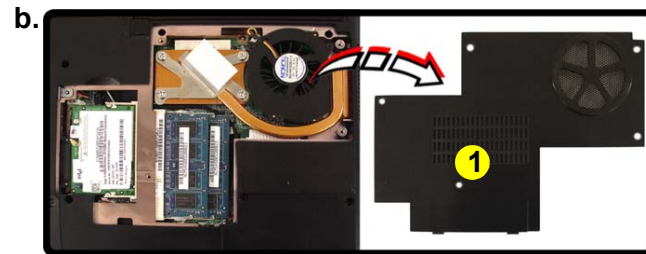
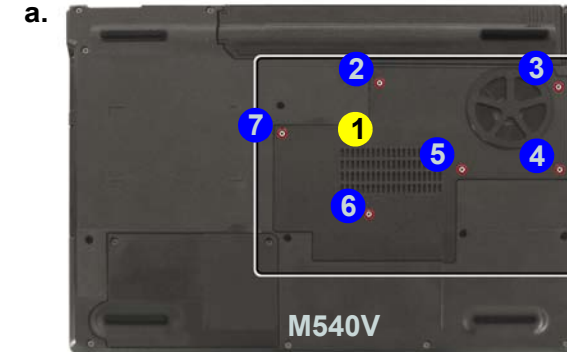
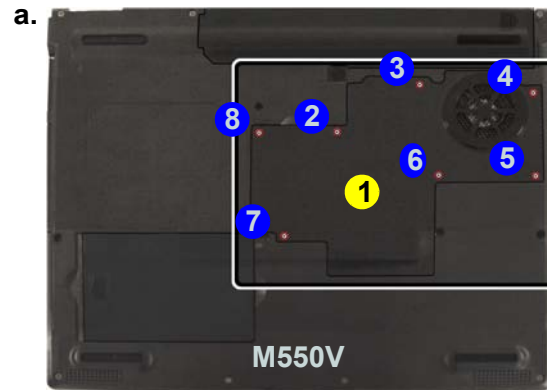
### Removing the Processor

Figure 8

#### Processor Removal

- Remove the screws.
- Carefully lift the cover off the computer.
- Remove the screws in the order indicated.
- Remove the heat sink.


- Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
- Locate the CPU bay cover **1**, and remove screws **2 - 8** (for **M550V**) OR screws **2 - 7** (for **M540V**).
- Carefully lift up the CPU cover **1** off the computer.
- Remove screws **9 - 12** ([Figure 8c](#)) from the heat sink in the order indicated.
- Carefully lift up the heat sink **13** ([Figure 8c](#)) off the computer.

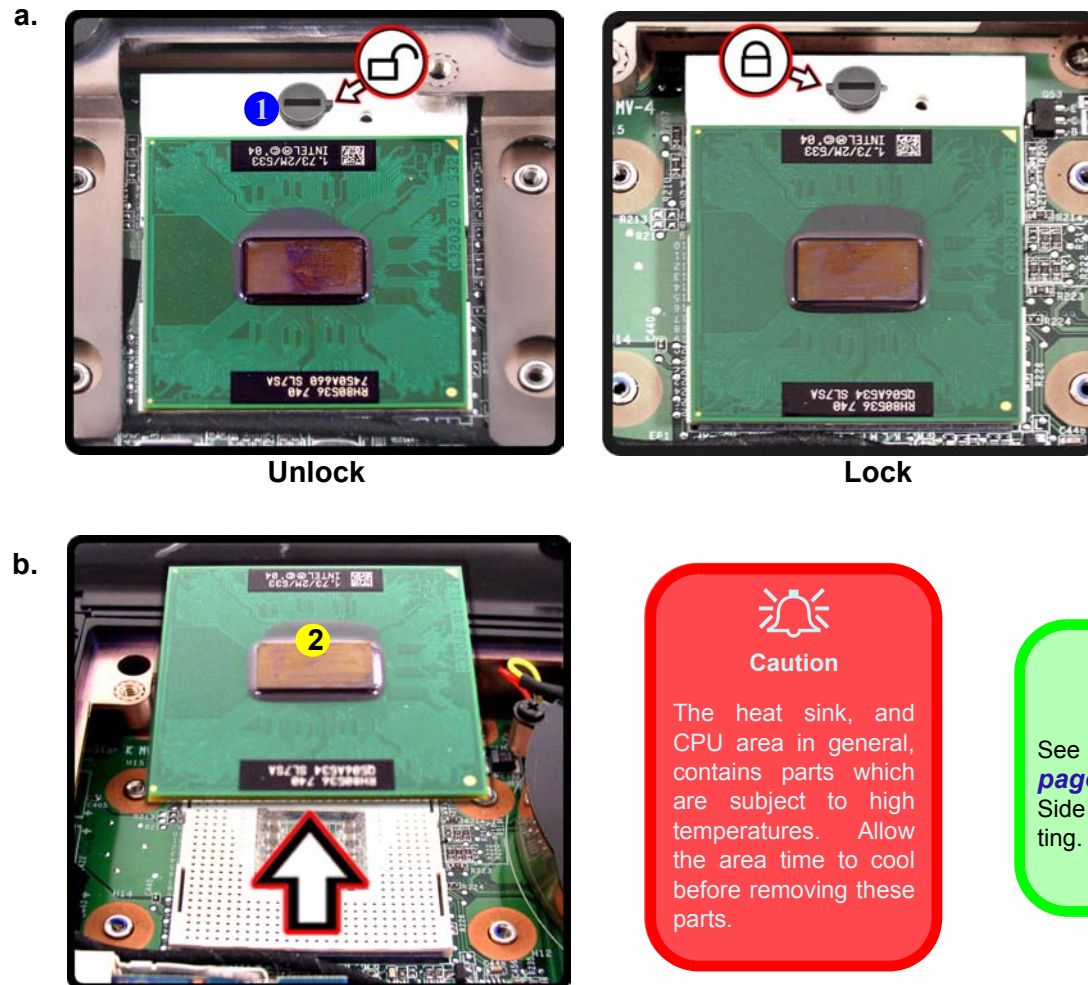


- 1. CPU Cover
- 13. Heat Sink

- 11 Screws (M550V)
- 10 Screws (M540V)



6. Turn the release latch **1** towards the unlock symbol , to release the CPU (*Figure 9a*).
7. Carefully (it may be hot) lift the CPU **2** up out of the socket (*Figure 9b*).
8. Reverse the process to install a new CPU.
9. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).



*Figure 9*  
**Processor Removal**  
 (cont'd)

- a. Turn the release latch to unlock the CPU.
- b. Lift the CPU out of the socket.

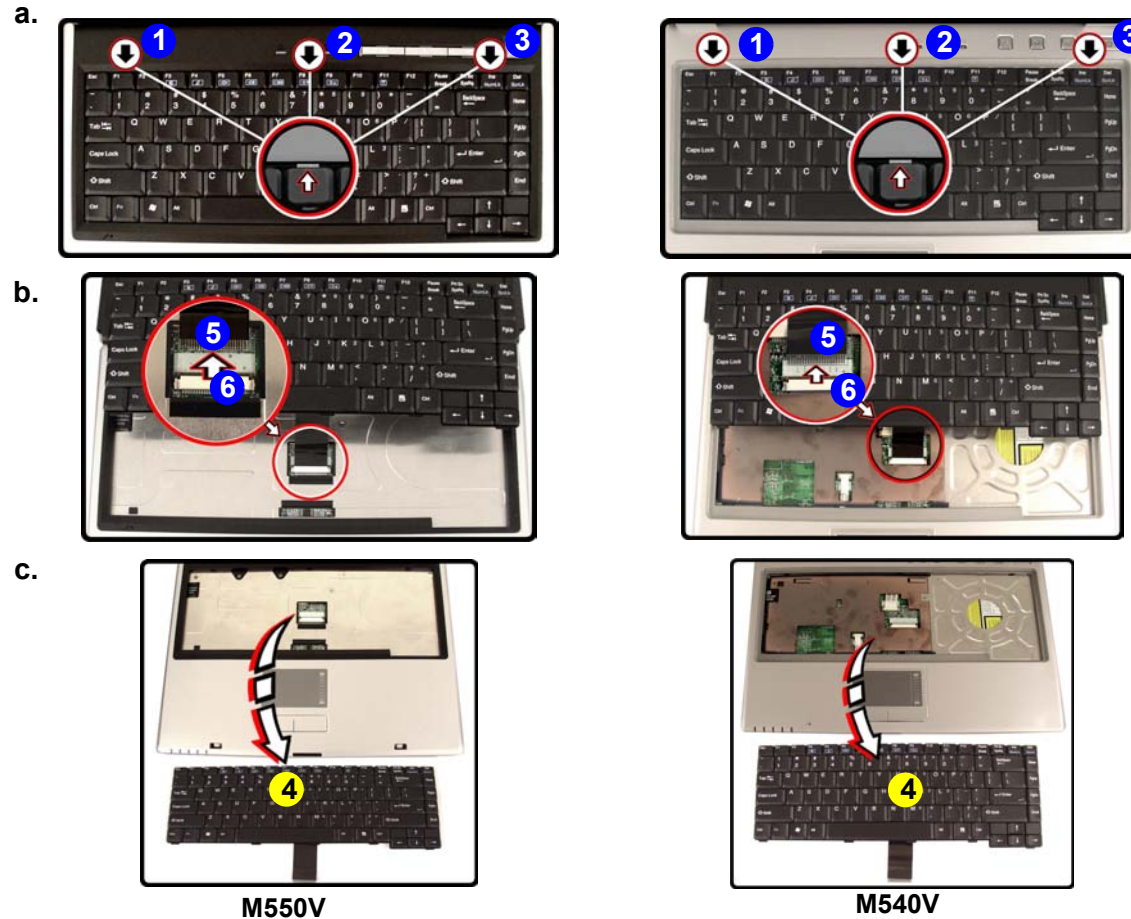
### Removing the Keyboard

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Press the **three** keyboard latches at the top of the keyboard to elevate the keyboard from its normal position (you may need to use a small screwdriver to do this).
3. Carefully lift the keyboard **4** up, being careful not to bend the keyboard ribbon cable **5** ([Figure 10b](#)).
4. Disconnect the keyboard ribbon cable **5** from the locking collar socket **6**.

Figure 10

#### Keyboard Removal

- a. Press the three latches to release the keyboard.
- b. Lift the keyboard up.
- c. Disconnect the cable from the locking collar.
- d. Remove the keyboard.



#### Re-Inserting the Keyboard

When re-inserting the keyboard firstly align the **five** keyboard tabs at the bottom of the keyboard with the slots in the case.



4. Keyboard

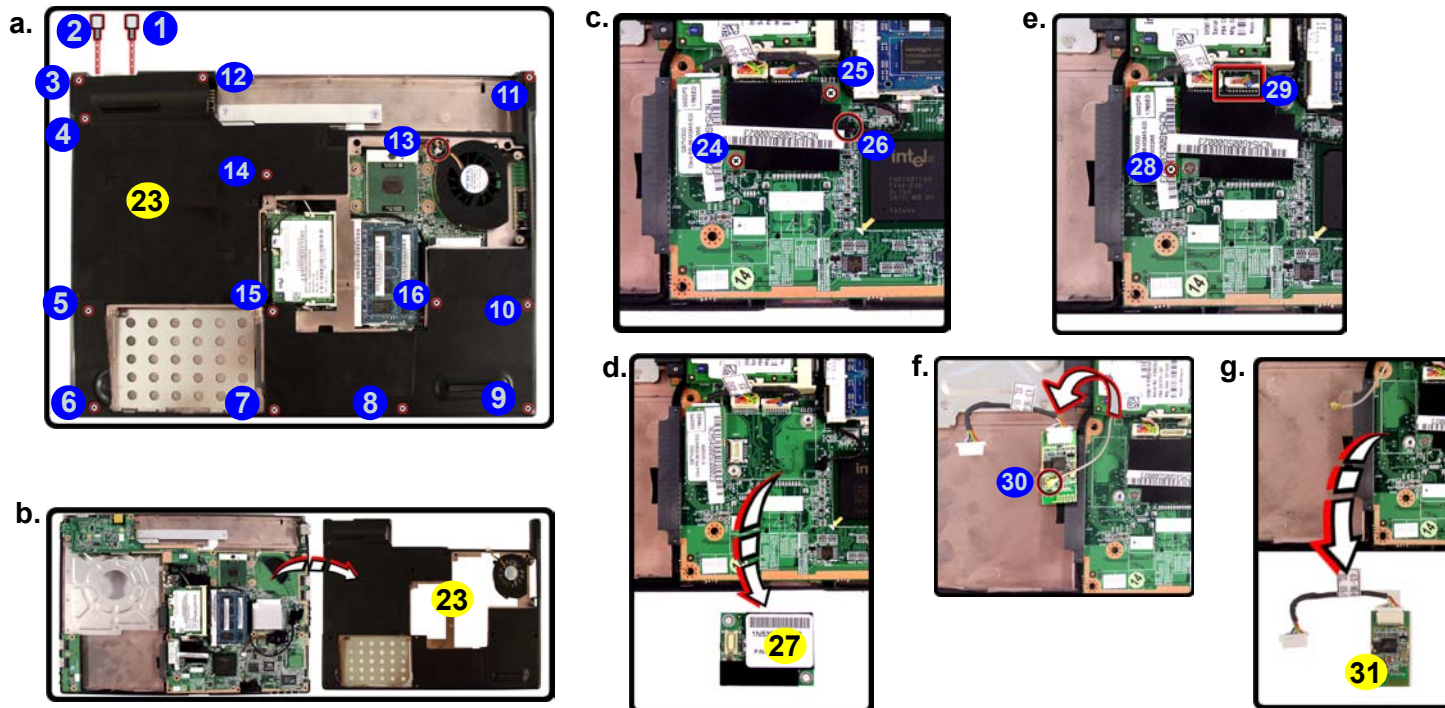
## Removing the Modem and Bluetooth Module


For M540V computers:

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), the optical device ([page 2 - 11](#)), the hard disk drive ([page 2 - 6](#)), the CPU heat sink ([page 2 - 12](#)) and the RAM bay cover([page 2 - 8](#)).
2. Remove screws **1** - **16** ([Figure 11a](#)) from the bottom case **23** .
3. Carefully lift up the bottom case **23** off the computer.
4. Remove screws **24** - **25** ([Figure 11c](#)), disconnect cable **26** and carefully separate the modem from the connector.
5. Lift the modem **27** ([Figure 11d](#)) up and off the computer.
6. Remove screw **28** ([Figure 11e](#)), carefully separate the Bluetooth Module from the connector **29** and disconnect cable **30**.
7. Lift the Bluetooth Module **31** ([Figure 11g](#)) up and off the computer.

*Figure 11*  
**Modem and Bluetooth Removal for M540V**

- a. Remove the screws.
- b. Remove the bottom case.
- c. Remove the screws and disconnect the cable from the modem.
- d. Lift the modem out.
- e. Remove the screw and disconnect the cable.
- f. Disconnect the antenna cable from the Bluetooth module.
- g. Lift the Bluetooth module out.





23. Bottom case  
27. Modem Module  
31. Bluetooth Module

- 19 Screws (M540V)

## Disassembly

### Figure 12 Modem and Bluetooth Removal for M550V

- Remove the screws on the keyboard bracket.
- Remove the screws on the bottom case.
- Remove the bottom case.
- Remove the screws and disconnect the cables from the modem.
- Lift the modem out.
- Remove the screw and disconnect the cable.
- Disconnect the antenna cable from the Bluetooth module.
- Lift the Bluetooth module out.

22. Bottom case

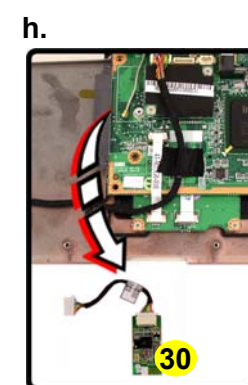
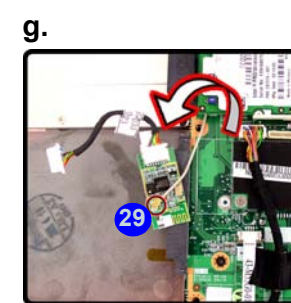
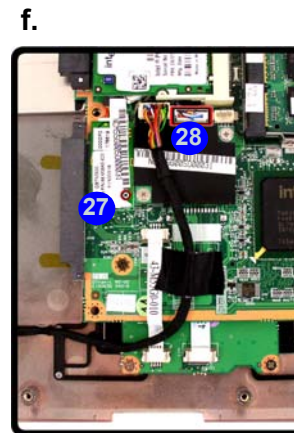
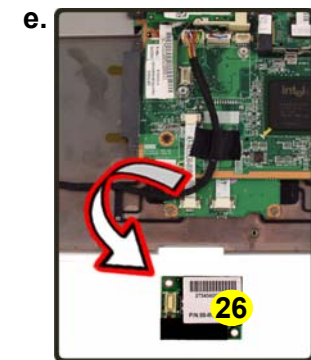
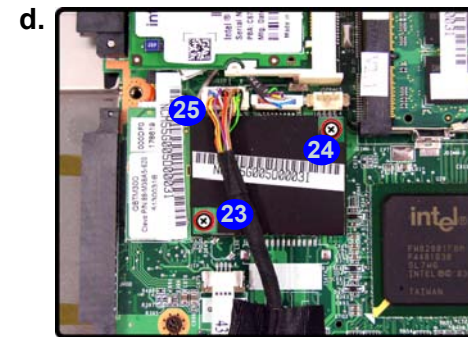
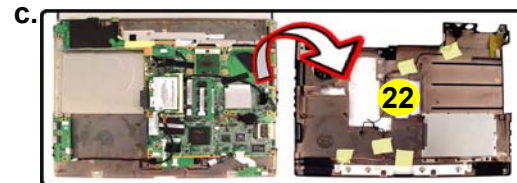
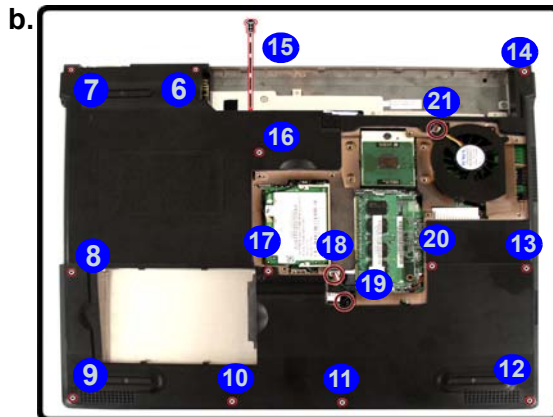
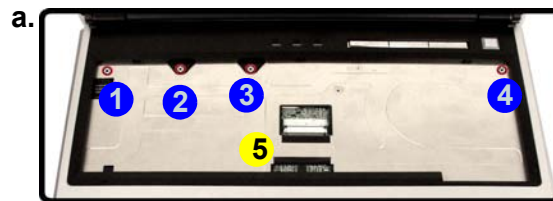
26. Modem module

30. Bluetooth module

- 23 Screws (M550V)

For **M550V** computers:

- Turn **off** the computer, remove the battery ([page 2 - 5](#)), the optical device ([page 2 - 11](#)), the hard disk drive ([page 2 - 6](#)), RAM bay cover ([page 2 - 8](#)), the CPU heat sink ([page 2 - 12](#)) and the keyboard ([page 2 - 14](#)).
- Remove screws **1 - 4**, from the keyboard bracket **5** and turn the computer over.
- Remove screws **6 - 21** ([Figure 12a](#)) from the bottom case **22**.
- Carefully lift up the bottom case **22** off the computer.
- Remove screws **23 - 24** ([Figure 12d](#)), and carefully separate the modem from the connector **25**.
- Lift the modem **26** ([Figure 12e](#)) up and off the computer.
- Remove screw **27**, carefully separate the Bluetooth module from the connector **28**, and disconnect cable **29**.
- Lift the Bluetooth module **30** ([Figure 12h](#)) up and off the computer.



# Appendix A:Part Lists

This appendix breaks down the *M550V/M540V* series notebook's construction into a series of illustrations. The component part numbers are indicated in the tables opposite the drawings.

**Note:** This section indicates the *manufacturer's* part numbers. Your organization may use a different system, so be sure to cross-check any relevant documentation.

**Note:** Some assemblies may have parts in common (especially screws). However, the part lists DO NOT indicate the total number of duplicated parts used.

**Note:** Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

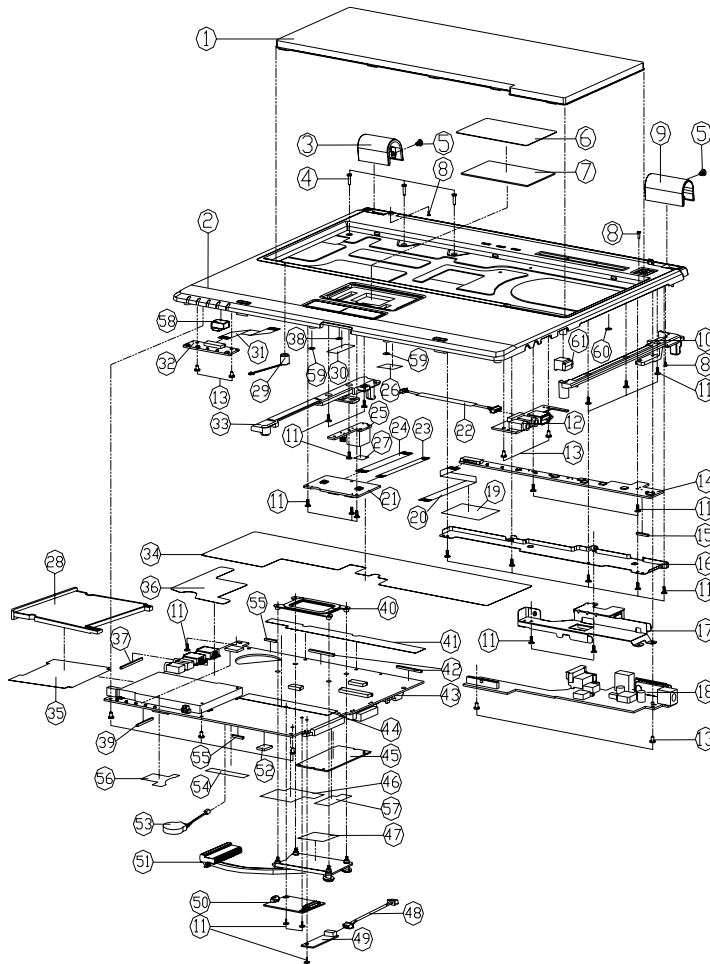
## Part List Illustration Location

The following table indicates where to find the appropriate part list illustration.

*Table A - 1*  
**Part List Illustration  
Location**

Part	M550V/M540V
Top - (M550V)	<i>page A - 3</i>
Top - (M540V)	<i>page A - 4</i>
Bottom - (M550V)	<i>page A - 5</i>
Bottom - (M540V)	<i>page A - 6</i>
LCD - (M550V)	<i>page A - 7</i>
LCD - (M540V)	<i>page A - 8</i>
DVD-ROM Drive - (M550V/M540V)	<i>page A - 9</i>
Combo Drive - (M550V/M540V)	<i>page A - 10</i>
DVD-RW Drive - (M550V/M540V)	<i>page A - 11</i>
HDD - (M550V)	<i>page A - 12</i>
HDD - (M540V)	<i>page A - 13</i>

# Top (M550V)



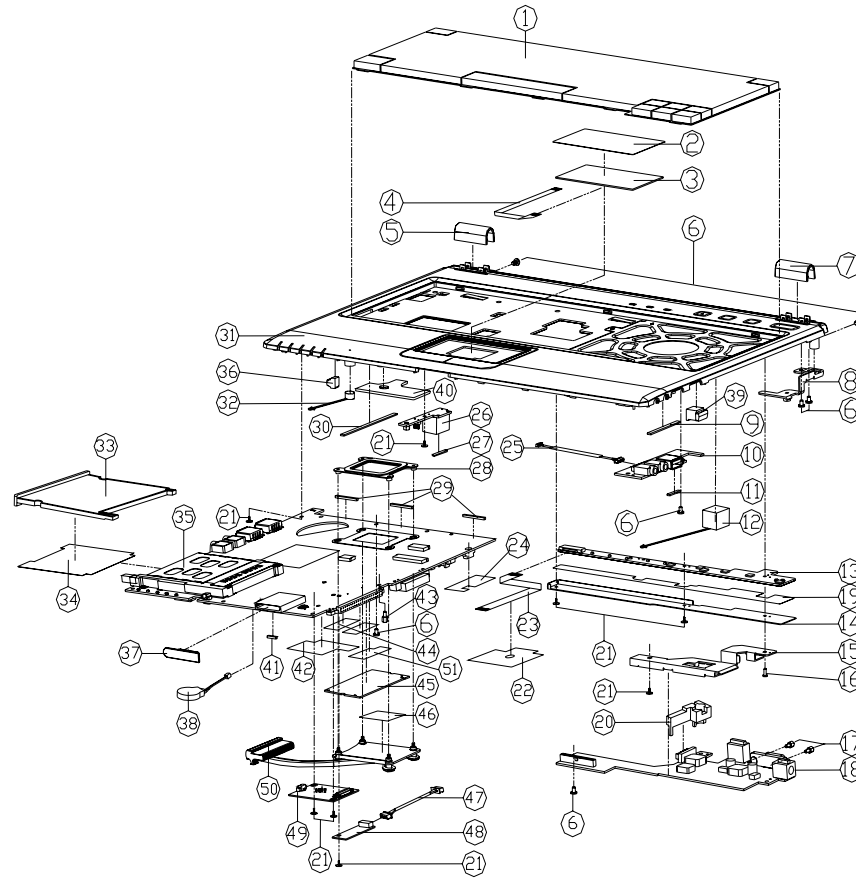
ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M550G	80-M55G0-011-1	
2	TOP CASE MODULE M550G	39-M55G2-013	
3	HINGE COVER (L) PC-M550M M550G	42-M55G1-020	
4	SCREW M5*8L KI BK/Z ICT NY #80	35-B6125-9RA	
5	SCREW M5*8L KI BK/Z ICT NY #85 L-8D #80	35-B6120-3RE	
6	TRACKPAD PAD MYLAR-B625 M550G	40-M55G2-021	
7	TOUCH PAD B00409-5103 M550G	49-M55G2-010	
8	SCREW M5*8L KI BK/Z ICT NY#85 L-8L0	35-B6120-6RB	
9	HINGE COVER (R) PC-M550M M550G	42-M55G1-010	
10	TOP CASE BECASTING(A) M550G	33-M55G2-011	
11	SCREW M5*8L KI NI ICT G1Y-PATCH #80	35-B1120-3RE	
12	AUDIO BOARD V4.0 M550V	77-M55V8-004	
13	SCREW M5*8L KI BK/Z ICT NY #80	35-B6125-5RA	
14	HOT KEY BOARD V3.0 M550G	77-M55G5-003	
15	GASKET (M) M550G FOR HOTKEY M550G	47-00190-115	
16	HOTKEY BRACKET AL M550G	33-M55G2-041	
17	CHARGER BRACKET AL M550G	33-M55G2-031	
18	DC/DC BOARD V5.0 M550V	77-M55V0-005	
19	HOTKEY CABLE MYLAR M550G	40-M55G2-060	
20	FFC CABLE FOR HOTKEY TO M/B L-145MM TYP M	43-M55G0-040	
21	CLICK BOARD V3.0 M550G	77-M55G2-003	
22	WIRE CABLE FOR PENE HOOK TO M/B L-250MM	43-M55G0-030	
23	FFC CABLE FOR CLICK TO M/B M550G	43-M55G0-010	
24	FFC CABLE FOR CLICK TO TOUCH PAD M550G	43-M55G2-010	
25	LAN BOARD V3.0 M550G	77-M55G2-003	
26	TOUCH PAD GROUND N. FOLIO (M) FOR DRUM	47-M55G2-010	
27	GASKET (M) M550G FOR LAN M550G	47-00190-093	
28	PCMCIA DUMMY CARD	42-M308P-010	
29	PCMCIA (M) M550G M550G FOR M/B BY 22X	23-E M55G-010	
30	TOUCH PAD GROUND N. FOLIO (M) FOR DRUM	47-M55G2-020	
31	FFC CABLE FOR LED TO M/B TOP M550G	43-M55G0-021	
32	LED BOARD V3.0 M550G	77-M55G4-003	
33	TOP CASE BECASTING(A) M550G	33-M55G2-021	
34	TOP CASE (M) MYLAR M550G	40-M55G2-070	
35	MYLAR FOR PCMCIA M540G	40-M54GP-010	
36	M/B TOP MYLAR (M) M550G M550G	40-M55VS-010	
37	GASKET (L) 30*40*3MM L-297P #80	47-00190-30C	
38	WASHER (M) M550G FOR M/B TOP M550G	37-02000-606	
39	GASKET (M) M550G FOR M/B CARD READER M	47-00190-25K	
40	CPU SUPPORT BRACKET (M) M550G	33-M54GS-011	
41	M/B TOP MYLAR (M) M550G M550G	40-M55VS-020	
42	GASKET (M) M550G FOR M/B CARD READER M	47-00190-30P	
43	MAIN BOARD V3.0 M550V	77-M55V0-003	
44	M/B TOP MYLAR MYLAR (M) M550G	40-M55G5-050	
45	WLAN BECASTING M/B PCI 30 INTEL 2958G	88-M40A2-424	
46	WLAN BECASTING M/B PCI 30 M550G + G11	88-D7012-472	
47	MYLAR FOR M/B M540G	47-M54GS-010	
48	BEFORE PAD FOR HEATING WIRE (M) M550G	47-0012N-0C0	
49	WIRE CABLE FOR BLUETOOTH TO M/B M550G	43-M55G0-070	
50	AUTOM KEY (M) M550G FOR M/B CARD READER M	88-M38A5-623	
51	AUTOM KEY (M) M550G FOR M/B CARD READER M	88-M55V1-530	
52	AUTOM KEY (M) M550G FOR M/B CARD READER M	88-M55V1-390	
53	CPU THERMAL MIDDLE M550G	31-M55GN-101	
54	FODRIN 16X6X2 FOR 15" CPT 4200	47-42091-040	
55	BAL ZUM 2X 220MH V-CABLE 50MM (E) 802	23-22015-P80	
56	M/B BOTTOM MYLAR (M) M550G M550G	40-M55G5-060	
57	GASKET (L) M550G FOR M/B M550G	47-00190-15K	
58	M/B BOTTOM MYLAR (M) M550G M550G	40-M55G5-080	
59	MYLAR FOR BLUETOOTH M550G	40-M54GS-070	
60	1394 RUBBER (S) L-100M M550V	47-M55VP-010	
61	WASHER (M) M550G FOR M/B CARD READER M	37-02000-603	
62	MYLAR (M) M550G FOR M/B CARD READER M	40-1145J-020	
63	USB RUBBER M540V	47-M54VZ-010	

Figure A - 1  
Top (M550V)

A. Part Lists

# Top (M540V)

Figure A - 2  
Top (M540V)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M5X0G	80-M55G0-011-1	
2	TOUCH PAD MYLAR T+0.22 M540G	40-M54G2-020	
3	TOUCH PAD 800409-5103 M550G	49-M55G2-010	
4	ITC CABLE FOR TOUCH PAD TO MB OF M54G	43-M54G0-011	
5	HINGE COVER (L)M3600H M540G	42-M54GY-020	
6	SCREW M2.5x4L F NI ICT NY	35-21125-4R0	
7	HINGE COVER (R)M3600H M540G	42-M54GY-010	
8	TOP CASE SUPPORT (0.305 F)M54G	33-M54G2-030	
9	GASKET (L)M540G FOR AUDIO BOARD M54G	47-00190-40B	
10	AUDIO BOARD V4.0 M550V	77-M55V8-004	
11	GASKET (L)M540G FOR USB M54G	47-00190-13A	
12	MYR CABLE FOR KEYBOARD TO MB OF M540G	43-M54G0-011	
13	MOI KEY BOARD V3.0 M54G	77-M54GS-003	
14	MOIKEY SHIELDING T105 M54G	33-M54G2-020	
15	CABLE SUPPORT BRACKET M54G	33-M54G2-010	
16	SCREW M2x4L KI ICT (M45 T-04)	35-80120-4R0	
17	HEX STUD SLIM22 NI-PL 10mm	34-96002-000	
18	DC/DC BOARD V5.0 M540V	77-M54VC-005	
19	MOIKEY MYLAR T+0.05 M540G	40-M54G2-010	
20	RUBBER FOR BATTERY CON M540G	47-M54G2-011	
21	SCREW N5x4L KI NI ICT G11-PATCH	35-81120-3RE	
22	MOIKEY CABLE MYLAR M540G	40-M54G2-070	
23	ITC CABLE FOR MOIKEY BOARD TO MB M54G	43-M54G0-041	
24	TOP CASE MYLAR FOR I/O (L)M540G	40-M54G2-060	
25	MYR CABLE FOR AUDIO BOARD TO MB OF V3.0	43-M54G0-021	
26	LAN BOARD V3.0 M550G	77-M55GZ-003	
27	GASKET (L)M540G FOR LAN BOARD M54G	47-00190-145	
28	CPU SUPPORT BRACKET (SUS301) M54G	33-M54GS-011	
29	GASKET (L)M540G FOR MB MOTOR M54G	47-00190-25G	
30	GASKET (S)M540G FOR AUDIO BOARD M54G	47-00190-006	
31	TOP CASE MODULE M540G	39-M54G2-013	
32	MC (M550G)F0-0 2Y-0V 22K V10A	23-E54G-011	
33	PCMCIA DUMMY CARD	42-M300P-010	
34	MYLAR FOR PCMCIA M540G	40-M54GP-010	
35	MAIN BOARD V3.0 M540V	77-M54V0-003	
36	1394 RUBBER M540G	47-M54GP-010	
37	RUBBER COVER FOR CARD READER	47-M40A1-040	
38	BAT 20M 3V 230mAh V-CABLE SSM CR2032	23-22015-P80	
39	USB RUBBER M540V	47-M54V2-010	
40	WASHER SPRING 1x25 FOR TOP CASE	47-M54G2-030	
41	GASKET (L)M540G FOR MB COVER-2 M54G	47-00190-10Y	
42	MYLAR FOR MB M540G	47-M54GS-010	
43	STUD (S)M540G FOR MB M54G	34-M54GS-020	
44	WASHER SPRING FOR MB M54G	40-M54GS-030	
45	WASHER SPRING (M) FOR MB M54G	88-M40A2-424	
46	WASHER SPRING (S) FOR MB M54G	88-D70T2-472	
47	MYR CABLE FOR KEYBOARD TO MB OF M540G	43-M55G0-003	
48	WASHER SPRING FOR MB OF M54G	43-M55G0-070	
49	WASHER SPRING FOR MB OF M54G	88-M36AS-623	
49	WASHER SPRING FOR MB OF M54G	88-M55V1-390	
49	WASHER SPRING FOR MB OF M54G	88-M55V1-530	
50	CPU THERMAL MODULE M550G	31-M55GN-101	
51	MYLAR FOR BULLET HOLES M540G	40-M54GS-070	



# Bottom (M550V)

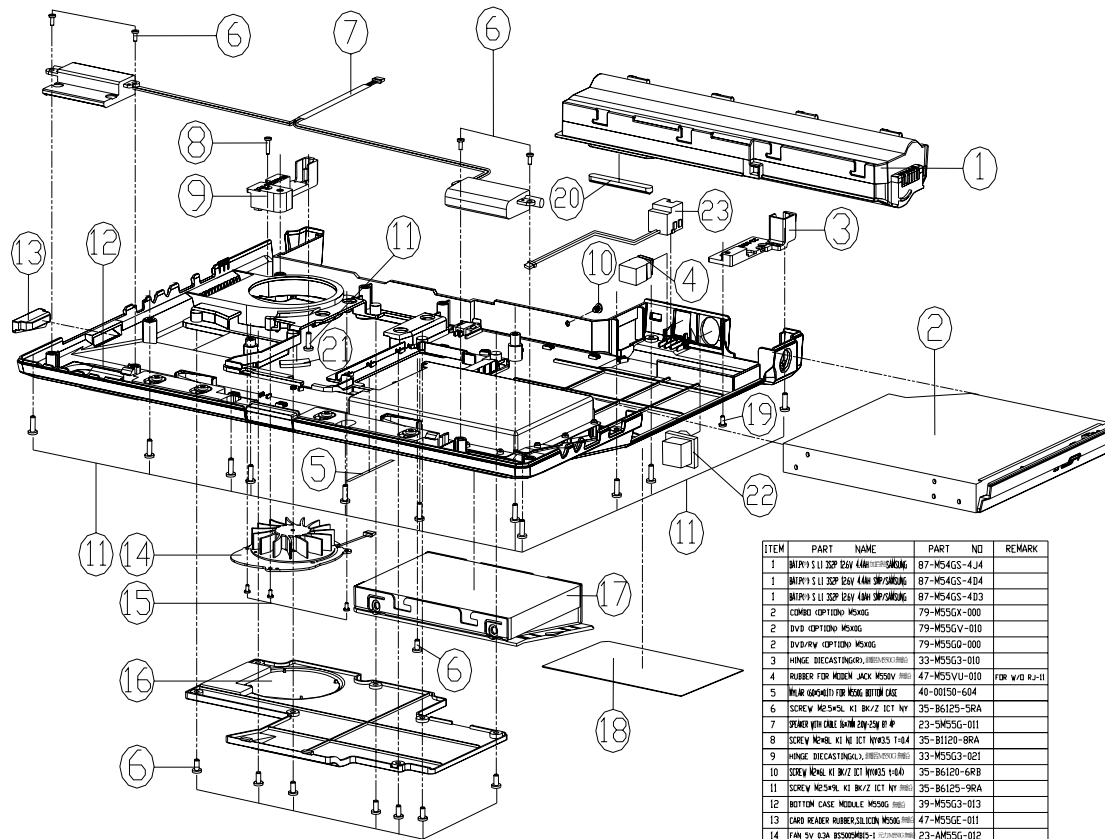


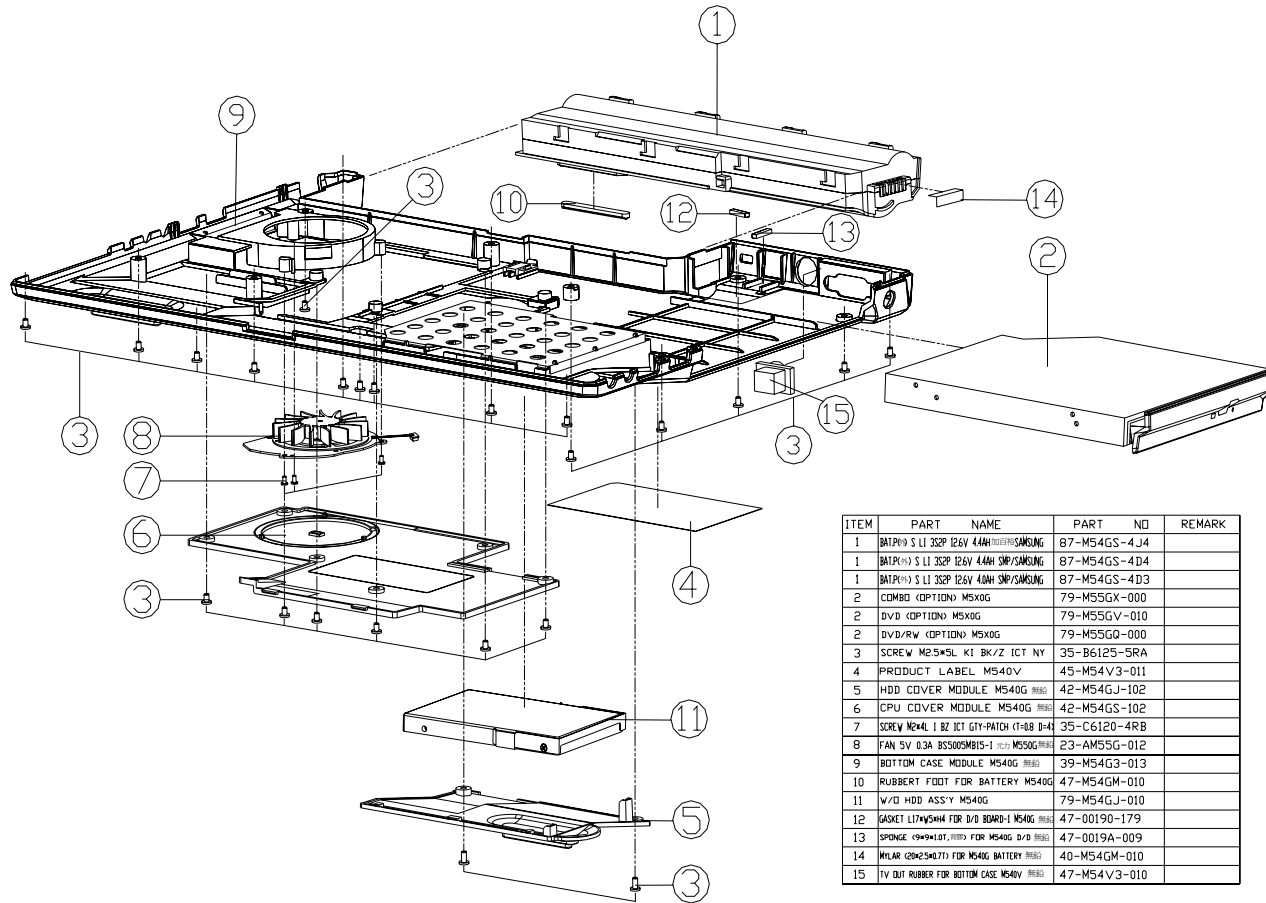
Figure A - 3  
Bottom (M550V)

ITEM	PART	NAME	PART NO	REMARK
1	BAU'S S LI ZCP	RAY 4MM SH/SMDNG	87-M54GS-4J4	
1	BAU'S S LI ZCP	RAY 4MM SH/SMDNG	87-M54GS-4D4	
1	BAU'S S LI ZCP	RAY 4MM SH/SMDNG	87-M54GS-4D3	
2	COMBO	OPTICDR M550G	79-M55GX-000	
2	DVD	OPTICDR M550G	79-M55GV-010	
2	DVD/RW	OPTICDR M550G	79-M55G0-000	
3	HINGE	DISCASTINGAL, HINGE(S)C	33-M55G3-010	
4	RUBBER	FOR MEDIA JACK M550V	47-M55VU-010	FOR V/D RJ-11
5	W/WR	WASHER FOR RWG	40-00150-604	
6	SCREW	M2.5xSL K1 BK/2 ICT NY	35-B6125-SRA	
7	SPACER	W/TH CABLE BATT	23-5M55G-011	
8	SCREW	M2.5xSL K1 NI ICT NYW35 1-6.4	35-B1120-BRA	
9	HINGE	DISCASTINGAL, HINGE(S)C	33-M55G3-021	
10	SCREW	M2.5xSL K1 BK/2 ICT NYW35 1-6.4	35-B6120-GRB	
11	SCREW	M2.5xSL K1 BK/2 ICT NY	35-B6125-SRA	
12	BOTTOM	CASE MODULE M550G	39-M55G3-013	
13	CARD	READER RUBBER/SILICONE	47-M55GE-011	
14	FAN	5V 0.3A B5200M55-1	23-AM55G-012	
15	SCREW	M2.5xSL K1 BK/2 ICT NYW35 1-6.4	35-C6120-4RB	
16	CPU	COVER MODULE M550G	42-M55GS-101	
17	HDD	HOUSING MODULE M550G	42-M55GJ-101	
18	PRODUCT	LABEL FOR M550V	45-M55V3-011	
19	SCREW	M2.5xSL K1 BK/2 ICT NYW35 1-6.4	35-B6120-2RB	
20	FOOT	RUBBER OASILICONE M550G	47-M55G3-011	
21	FAN	RUBBER/SILICONE M550V	47-M55V3-010	
22	TV	OUT RUBBER FOR BOTTOM CASE M54V	47-M54V3-010	
23	WIRE	CABLE FOR RJ-11 TO NIC 2P RWG	43-M55GU-012	

A.Part Lists

# Bottom (M540V)

Figure A - 4  
Bottom (M540V)



ITEM	PART NAME	PART NO	REMARK
1	BATPR9 S LI 32P 126V 44M S/P/SAMSUNG	87-M54GS-4J4	
1	BATPR10 S LI 32P 126V 44M S/P/SAMSUNG	87-M54GS-4D4	
1	BATPR11 S LI 32P 126V 44M S/P/SAMSUNG	87-M54GS-4D3	
2	COMBO (OPTION) M5X0G	79-M55GX-000	
2	DVD (OPTION) M5X0G	79-M55GV-010	
2	DVD/RW (OPTION) M5X0G	79-M55GQ-000	
3	SCREW M2.5*SL K1 BK/Z ICT NY	35-B6125-5RA	
4	PRODUCT LABEL M540V	45-M54V3-011	
5	HDD COVER MODULE M540G	42-M54GJ-102	
6	CPU COVER MODULE M540G	42-M54GS-102	
7	SCREW NICAL 1 BZ ICT G1Y-PATCH (1-88 B=4	35-C6120-4RB	
8	FAN 5V 0.3A B55003MB15-1	23-AM55G-012	
9	BOTTOM CASE MODULE M540G	39-M54G3-013	
10	RUBBER FOOT FOR BATTERY M540G	47-M54GM-010	
11	W/O HDD ASS'Y M540G	79-M54GJ-010	
12	GASKET L17*5MM FOR D/D BOARD-1 M540G	47-00190-179	
13	SPRING C9*9*1.0T FOR M540G D/D	47-0019A-009	
14	MILAR C20*25*0.71 FOR M540G BATTERY	40-M54GM-010	
15	TV OUT RUBBER FOR BOTTOM CASE M540V	47-M54V3-010	

# LCD (M550V)

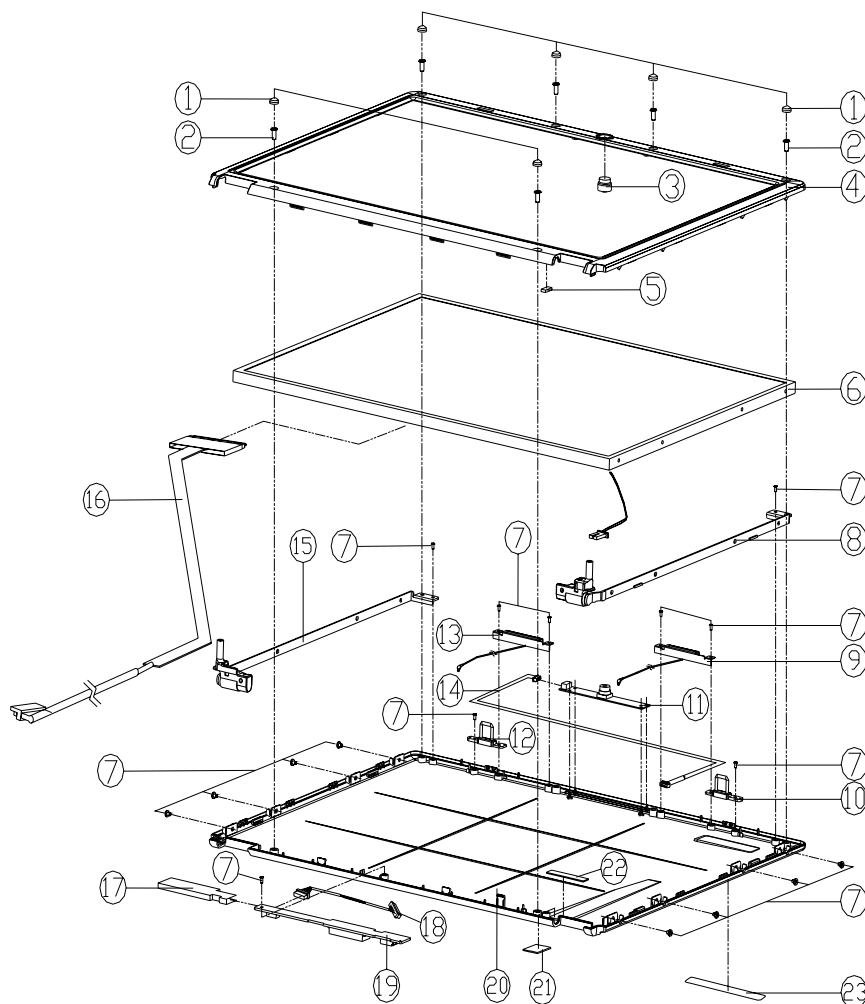


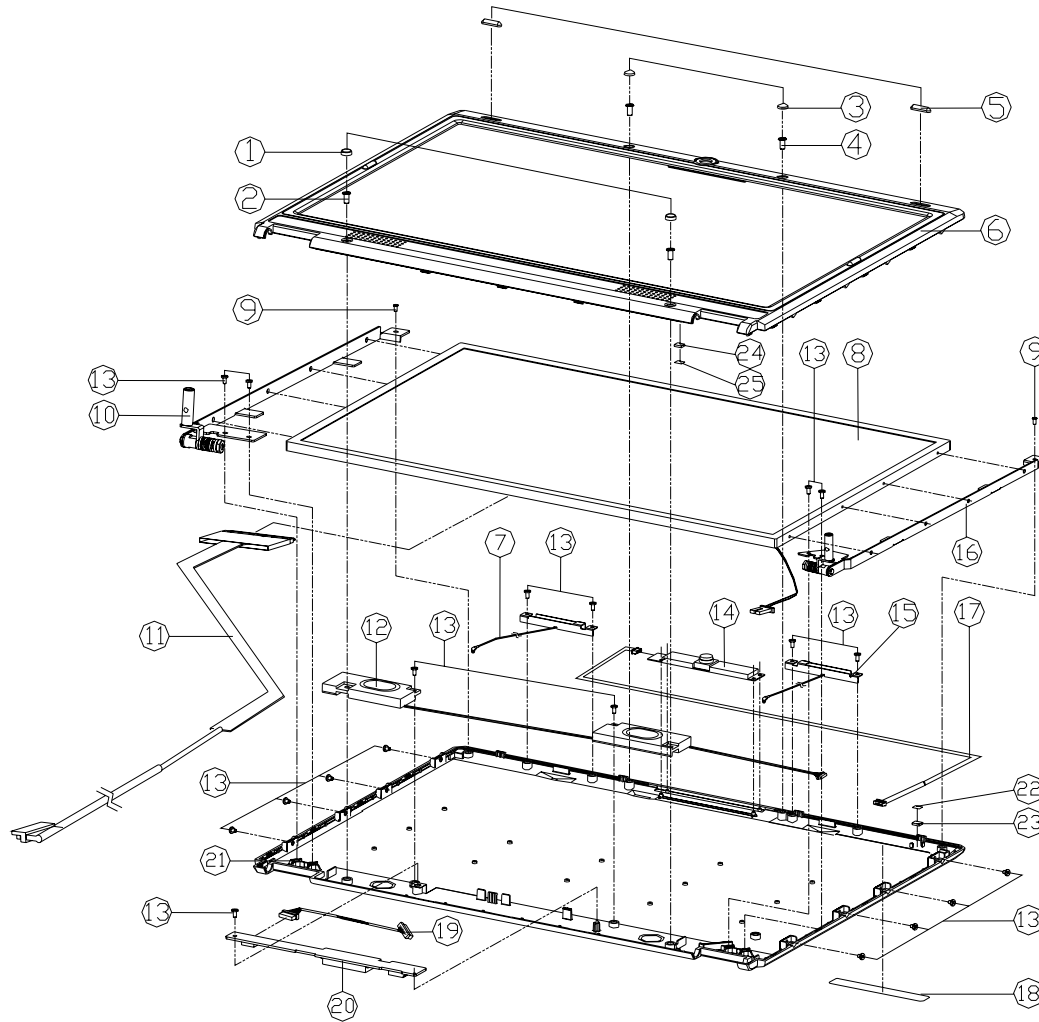
Figure A - 5  
LCD (M550V)

ITEM	PART NAME	PART NO	REMARK
1	LCD RUBBER PAD	47-D7011-0C0	
2	SCREW M5X0.8 KI ANI DCT GY-PATCH	35-B9125-5RB	
3	W/O CCD RUBBER RUBBER M550G	47-M55G1-020	FOR W/O CCD
4	LCD FRONT COVER MODULE M550G	39-M55G1-012	
5	MAGNET COVER WITH MAGNET M550G	25-90002-010	
6	LED T AU RESIN GRAY V235-GRAND 15' XGA 60	50-L2265-C00	FOR AU
6	LED T AU RESIN GRAY V235-GRAND 15' XGA 60	50-L2260-C03	FOR AU
6	LED T CPT (LAUS)GRAND 15' XGA	50-L2260-C00	FOR CPT
7	SCREW M5X1.8 KI DCT GY-PATCH (1-88 B-0)	35-C6120-4RB	
8	LCD BRACKET (R),SUS M550G	33-M55G1-011	
9	ANTENNA BLUETOOTH DUAL BAND PIFA COAX BLACK	23-7M55G1-012	
10	LCD LATCH (R),ZINC M550G	33-M55G1-050	
11	CRS VIDEO CAMERA (R)-FHD0-H 30M PIXEL	88-M55G1-611	(OPTION)
11	CRS VIDEO CAMERA (R)-FHD0-H 30M PIXEL	88-M55G1-610	(OPTION)
12	LCD LATCH (L),ZINC M550G	33-M55G1-060	
13	ANTENNA BLUETOOTH DUAL BAND PIFA COAX GRN	23-7M55G1-022	(OPTION)
14	WIRE CABLE FOR CCD TO M550G	43-M55G1-052	
15	LCD BRACKET (L),SUS M550G	33-M55G1-021	
16	COAXIAL CABLE FOR AV(M550G)	43-M55G1-021	
16	COAXIAL CABLE FOR OPT(M550G)	43-M55G1-011	
17	INVERTER BOARD MYLAR MYLAR M550G	40-M55G1-010	
18	WIRE CABLE FOR INVERTER BOARD TO M550G	43-M55G1-062	
19	INVERTER MODULE M550G (EPS)	76-M55G1-010	
20	LCD BACK COVER MODULE M550G	39-M55G1-022	
21	PC MYLAR (4046.5411) FOR M550G	40-00150-270	
22	PC MYLAR (4046.5411) FOR M550G	40-00150-409	
23	FOR M550G LOGO STYLE-NOTE	45-M55G1-020	

A.Part Lists

# LCD (M540V)

Figure A - 6  
LCD (M540V)



ITEM	PART NAME	PART NO	REMARK
1	RUBBER FOR LCD FRONT COVER (CIRCLE) #888	M54 47-M54G1-030	
2	SCREW M2.5*SL K1 BK/2 ICT NY	35-B6125-5RA	
3	RUBBER FOR LCD FRONT COVER (CIRCLE) #888	M54 47-M54G1-041	
4	SCREW M2*SL 1 BZ ICT	35-C6120-5R0	
5	RUBBER FOR LCD FRONT COVER (ELLIPSE) #540G	47-M54G1-052	
6	LCD FRONT COVER MODULE M540G #888	39-M54G1-013	
7	ANTENNA BLUETOOTH DUAL BAND PIFA 630MM GRN	23-7M54G-021	(OPTION)
8	LCD 14" TFT AU 846V07 V0 VGA 57MM	50-JC257-G00	FOR AU
8	LCD 14" TFT SAMSUNG LTN140M1-L01 VGA 53M	50-JC255-M00	FOR SAMSUNG
9	SCREW M2*SL 1 NH(YD)4.5 T+0.8 #888	35-C1120-2R0	
10	HINGE (L) M540G #888	33-M54G1-023	
11	COAXIAL CABLE FOR AUR846V07 M540G #888	43-M54G1-022	
12	SPEAKER 2510MM Ø 15W 4P (TG-25M532) M5	23-SM54G-011	
13	SCREW M2*SL 1 NH ICT NY #888(CAN) #888(SAN) #888	35-C1120-3RB	
14	CMOS VIBED CAMERA BNC-P0030-D 30K PIXEL	88-M55GC-611	(OPTION)
14	CMOS VIBED CAMERA BNC-DV9650-D-50IG 1.3M	88-M55GC-610	(OPTION)
15	ANTENNA WLAN DUAL BAND PIFA 470MM BLACK	23-7M54G-011	
16	HINGE (R) M540G #888	33-M54G1-013	
17	WIRE CABLE FOR CCD TO M/B M540G #888	43-M54G0-051	
18	M540G #888 LOGO STYLE-NOTE	45-M54G1-020	
19	WIRE CABLE FOR INVERTER TO M/B M540G #888	43-M54G0-061	
20	INVERTER MODULE M550G (EPS)	76-M55GR-011	
21	LCD BACK COVER MODULE M540G #888	39-M54G1-023	
22	LCD MAGNET MYLAR M540G	40-M54G1-020	
23	MAGNET 84x33MM FOR LCD BACK COVER M540G	25-90002-013	
24	MAGNET 84x33MM FOR LCD BACK COVER M540G	25-90002-012	
25	LCD FRONT COVER MAGNET MYLAR M540G	40-M55G1-020	

## DVD-ROM Drive (M550V/M540V)

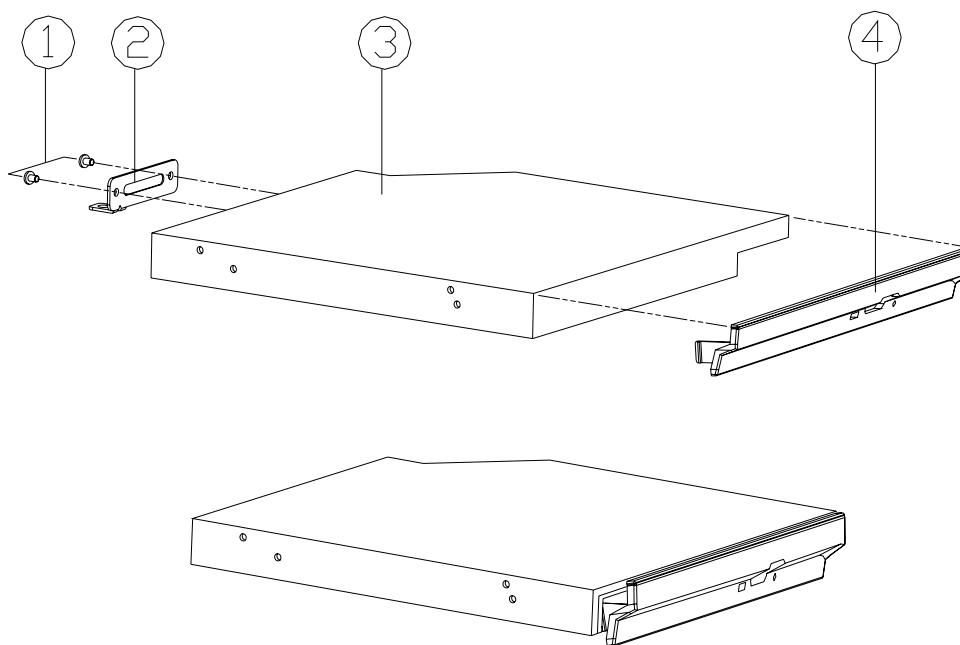
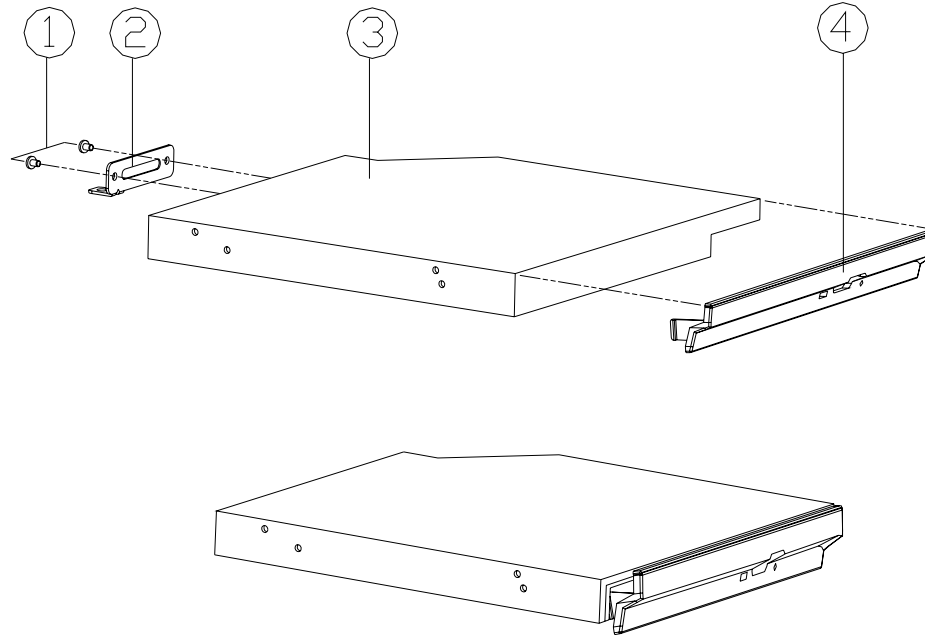


Figure A - 7  
DVD-ROM Drive  
(M550V/M540V)

ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L K1 NI ICT GTY-PATCH	35-B1120-3RE	
2	CD-ROM LOCK BRACKET,SECC M550G	33-M55GZ-011	
3	DVD 5 1/4" 8X 12.7MM SD-C2732 TOSHIBA	85-7078X-T06	
4	DVD BEZEL MODULE M550G	42-M55GV-103	

## Combo Drive (M550V/M540V)

Figure A - 8  
Combo Drive  
(M550V/M540V)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L K1 NI ICT GTY-PATCH	35-B1120-3RE	
2	CD-RDM LOCK BRACKET,SECC M550G	33-M55GZ-011	
3	CD-RW/DVD 5 1/4" 24X 12.7MM TS-L462A TOSHI	85-907□X-T01	
3	CD-RW/DVD 5 1/4" 24X 12.7MM SCB5265 PHILIP	85-907PX-C00	
4	COMBO BEZEL MODULE M550G	42-M55GX-103	

## DVD-RW Drive (M550V/M540V)

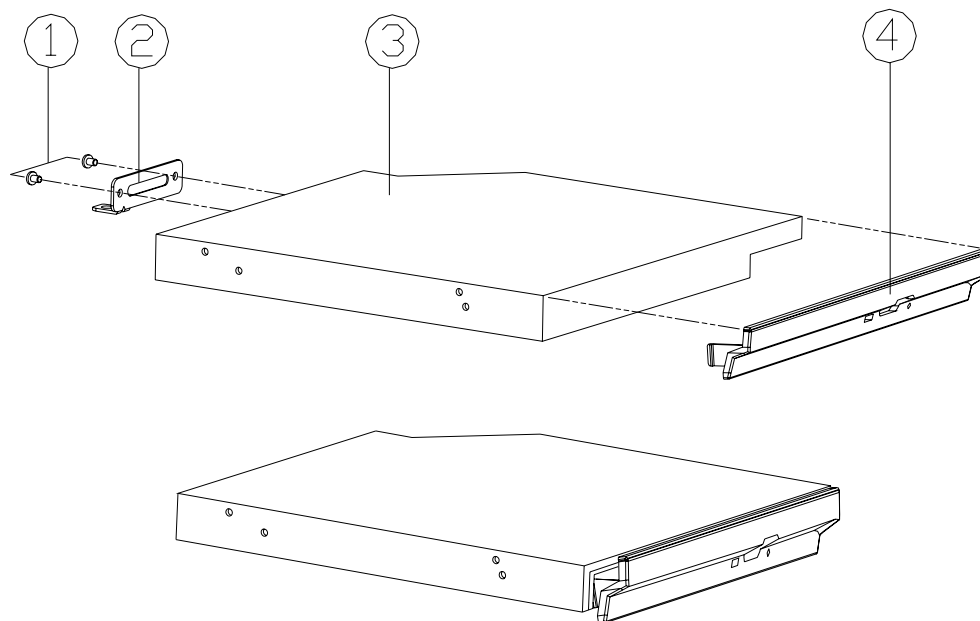
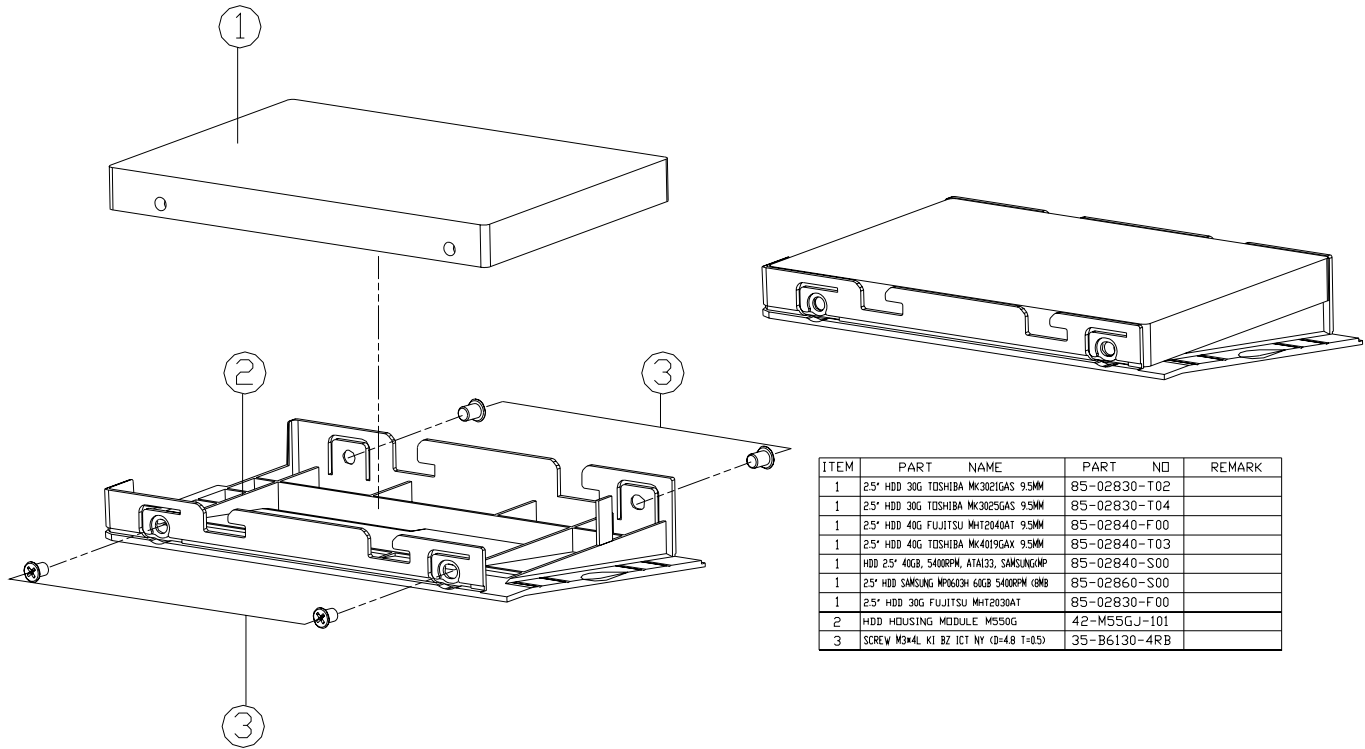


Figure A - 9  
DVD-RW Drive  
(M550V/M540V)

ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L K1 NI ICT GTY-PATCH	35-B1120-3RE	
2	CD-ROM LOCK BRACKET,SECC M550G	33-M55GZ-011	
3	DVD/DUAL RW 5 1/4" 8X 12.7MM DVR-K15RA F/W	85-A078X-B02	
3	DVD/DUAL RW 5 1/4" 8X 12.7MM TS-L532A TOSH	85-A078X-T00	
4	DUAL DVD BEZEL MODULE M550G	42-M55GV-203	

# HDD (M550V)

Figure A - 10  
HDD (M550V)



ITEM	PART NAME	PART NO	REMARK
1	2.5" HDD 30G TOSHIBA Mk3021GAS 9.5MM	85-02830-T02	
1	2.5" HDD 30G TOSHIBA Mk3025GAS 9.5MM	85-02830-T04	
1	2.5" HDD 40G FUJITSU MHT2040AT 9.5MM	85-02840-F00	
1	2.5" HDD 40G TOSHIBA Mk4019GAX 9.5MM	85-02840-T03	
1	HDD 2.5" 40GB, 5400RPM, ATA133, SAMSUNGMP	85-02840-S00	
1	2.5" HDD SAMSUNG MP0603H 60GB 5400RPM GEMB	85-02860-S00	
1	2.5" HDD 30G FUJITSU MHT2030AT	85-02830-F00	
2	HDD HOUSING MODULE M550G	42-M550J-101	
3	SCREW M3x4L KI BZ ICT NY (D=4.8 T=0.5)	35-B6130-4RB	



# HDD (M540V)

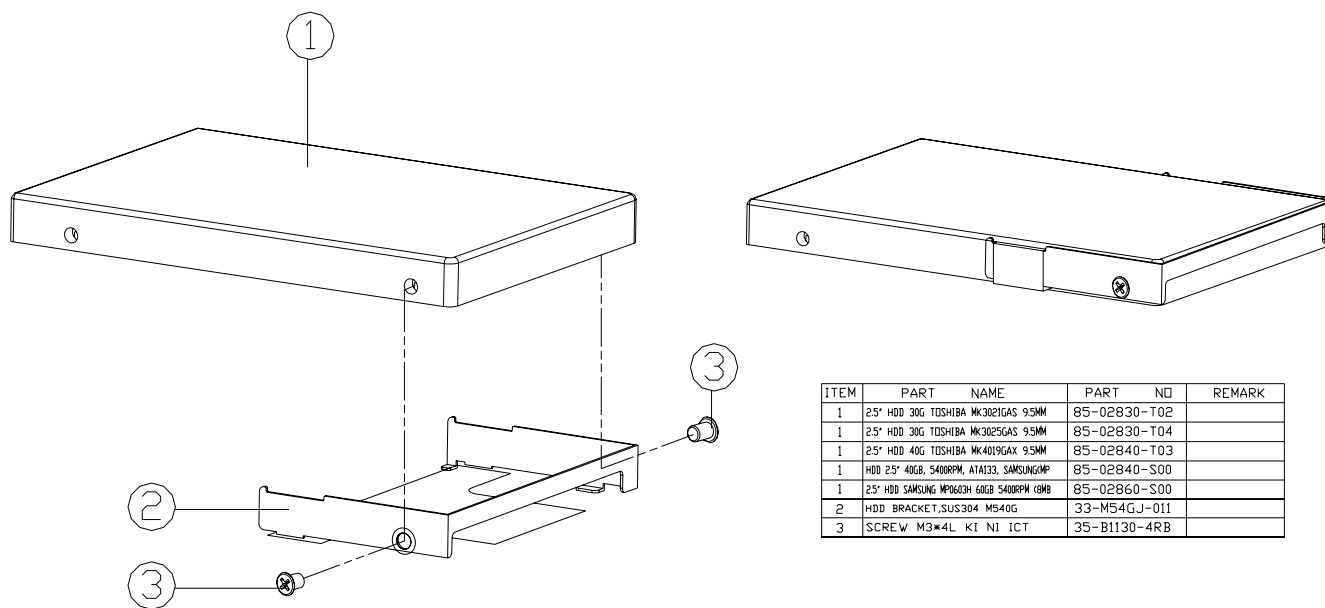


Figure A - 11  
HDD (M540V)

ITEM	PART	NAME	PART NO	REMARK
1	25" HDD 30G	TOSHIBA MK3021GAS 9.5MM	85-02830-T02	
1	25" HDD 30G	TOSHIBA MK3025GAS 9.5MM	85-02830-T04	
1	25" HDD 40G	TOSHIBA MK4019GAX 9.5MM	85-02840-T03	
1	HDD 25" 40GB, 5400RPM, ATA133, SAMSUNGMP		85-02840-S00	
1	25" HDD SAMSUNG MP0603H 60GB 5400RPM 9.5MM		85-02860-S00	
2	HDD BRACKET,SUS304 M540G		33-M54GJ-011	
3	SCREW M3*4L KI NI ICT		35-B1130-4RB	

A.Part Lists



# Appendix B:Schematic Diagrams

This appendix has circuit diagrams of the *M550V/M540V* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>VT8237 1/3 - Page B - 16</i>	<i>SYSTEM POWER - Page B - 30</i>
<i>PROCESSOR 1/2 - Page B - 3</i>	<i>VT8237 2/3 - Page B - 17</i>	<i>+2.5, +1.25V - Page B - 31</i>
<i>PROCESSOR 2/2 - Page B - 4</i>	<i>VT8237 3/3 - Page B - 18</i>	<i>+VCORE - Page B - 32</i>
<i>PN800 1/5 - Page B - 5</i>	<i>MINI PCI, USB2.0*2 - Page B - 19</i>	<i>VCCP, +1.5V - Page B - 33</i>
<i>PN800 2/5 - Page B - 6</i>	<i>HDD, CD-ROM, SATA CON - Page B - 20</i>	<i>D/D BD (CRT, S-VIDEO, RJ11) - Page B - 34</i>
<i>PN800 3/5 - Page B - 7</i>	<i>LAN PHY - Page B - 21</i>	<i>D/D BD (+VDD3, +VDD5, +VDD12) - Page B - 35</i>
<i>PN800 4/5 - Page B - 8</i>	<i>LPC ROM, TOUCH PAD, LED - Page B - 22</i>	<i>D/D BD (CHARGER, DC IN) - Page B - 36</i>
<i>PN800 5/5 - Page B - 9</i>	<i>IEEE 1934 VT6307S - Page B - 23</i>	<i>AUDIO BD (PHONE JACK, USB) - Page B - 37</i>
<i>DDR SO-DIMM - Page B - 10</i>	<i>H8-2111 - Page B - 24</i>	<i>HOT KEY BD (HOT KEY, LED) - Page B - 38</i>
<i>DDR TERMINATION - Page B - 11</i>	<i>MDC, USB BT, PWRGD, DDB CON - Page B - 25</i>	<i>LED BOARD - Page B - 39</i>
<i>CLOCK GENERATOR, CCD - Page B - 12</i>	<i>AC97 CODEC AL655 - Page B - 26</i>	<i>CLICK BOARD - Page B - 40</i>
<i>PANEL, INVERTER, FAN - Page B - 13</i>	<i>AUDIO AMP, USB2.0*2 - Page B - 27</i>	<i>RJ-45 BOARD - Page B - 41</i>
<i>VIA LVDS VT-1631L - Page B - 14</i>	<i>PCMCIA ENE CB714B - Page B - 28</i>	<i>USB DANGLE BOARD - Page B - 42</i>
<i>TV ENCODER - Page B - 15</i>	<i>PCM SOCKET, 3 IN 1 SOCKET - Page B - 29</i>	

*Table B - 1*  
**Schematic Diagrams**

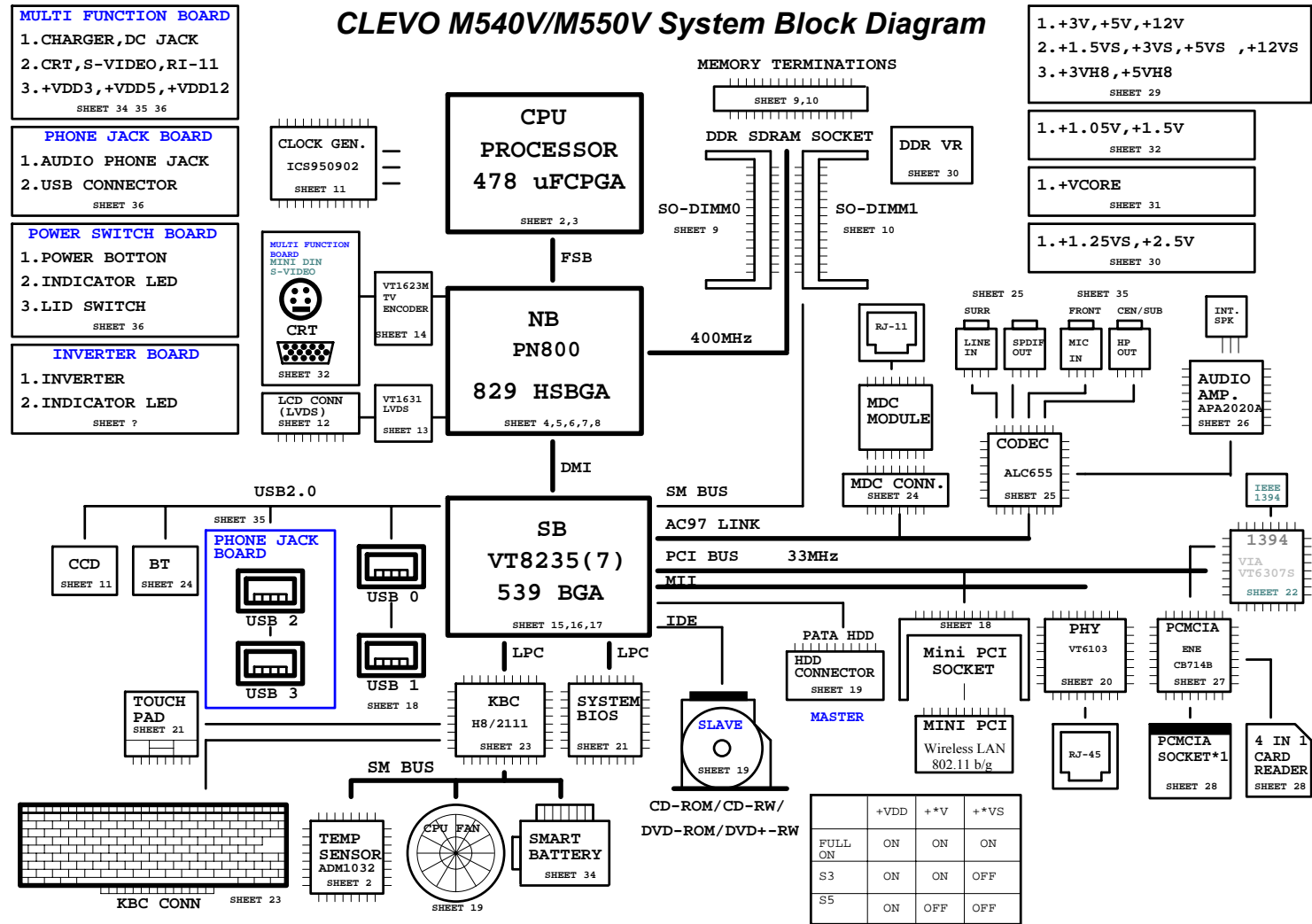


### Version Note

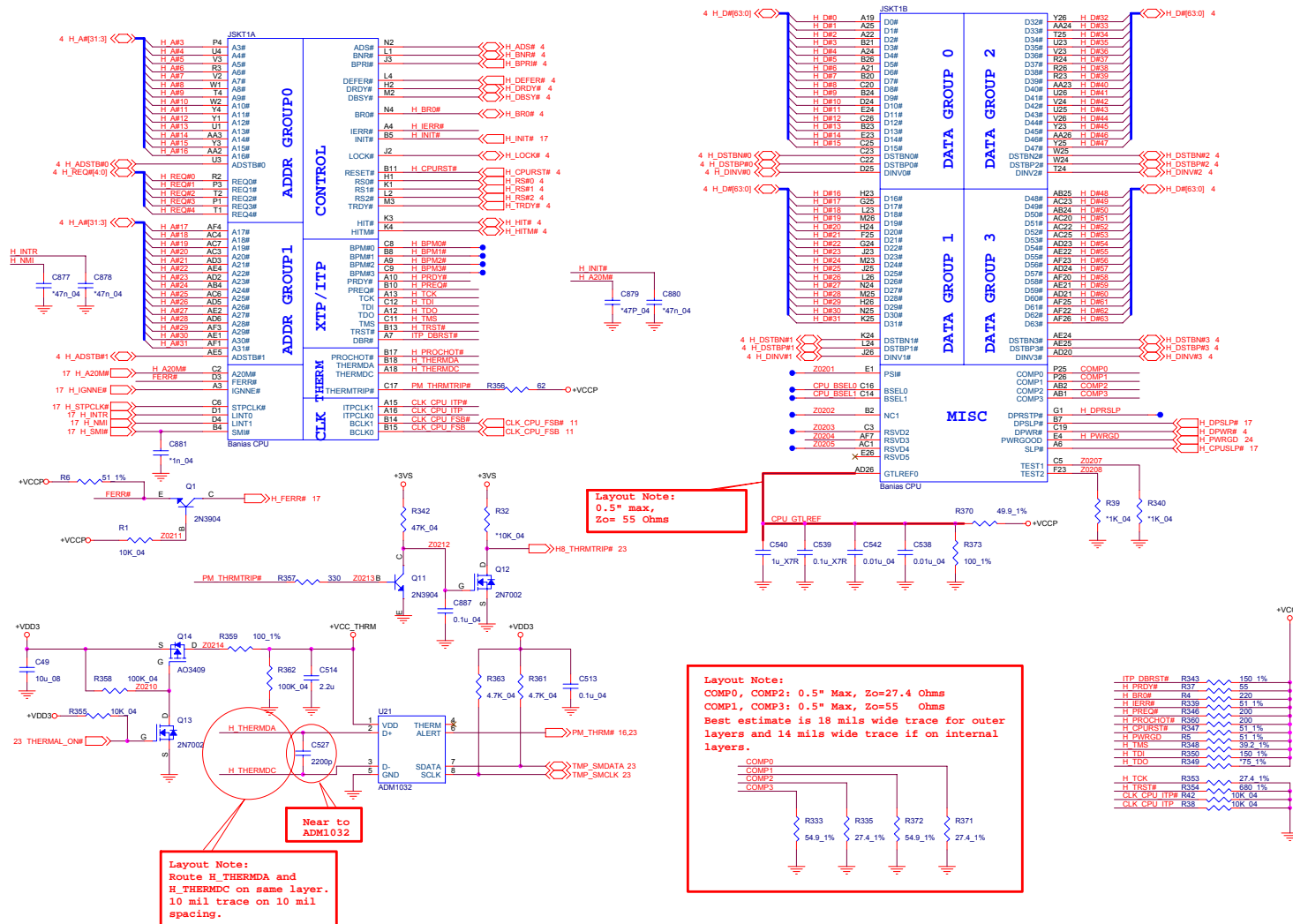
The schematic diagrams in this chapter are based upon version **71-M55V0-003**. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

# System Block Diagram

Sheet 1 of 41  
System Block  
Diagram



# PROCESSOR 1/2

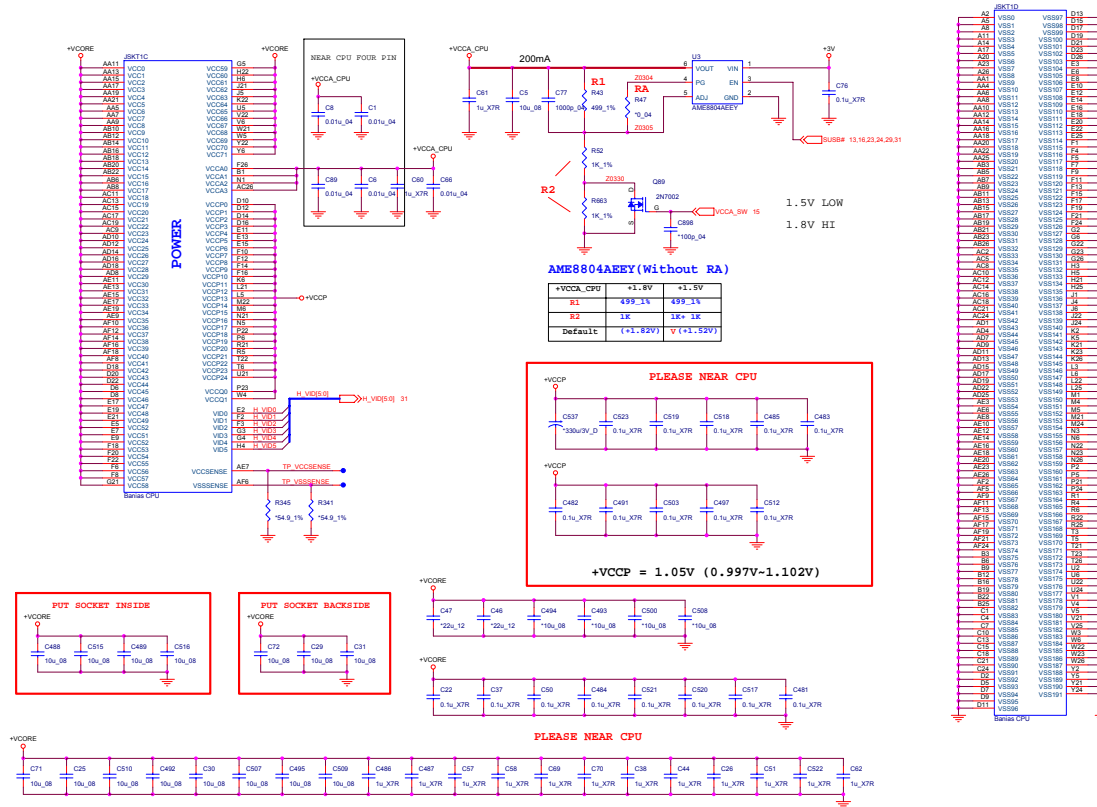


Sheet 2 of 41  
PROCESSOR 1/2

B.Schematic Diagrams

# PROCESSOR 2/2

Sheet 3 of 41  
PROCESSOR 2/2

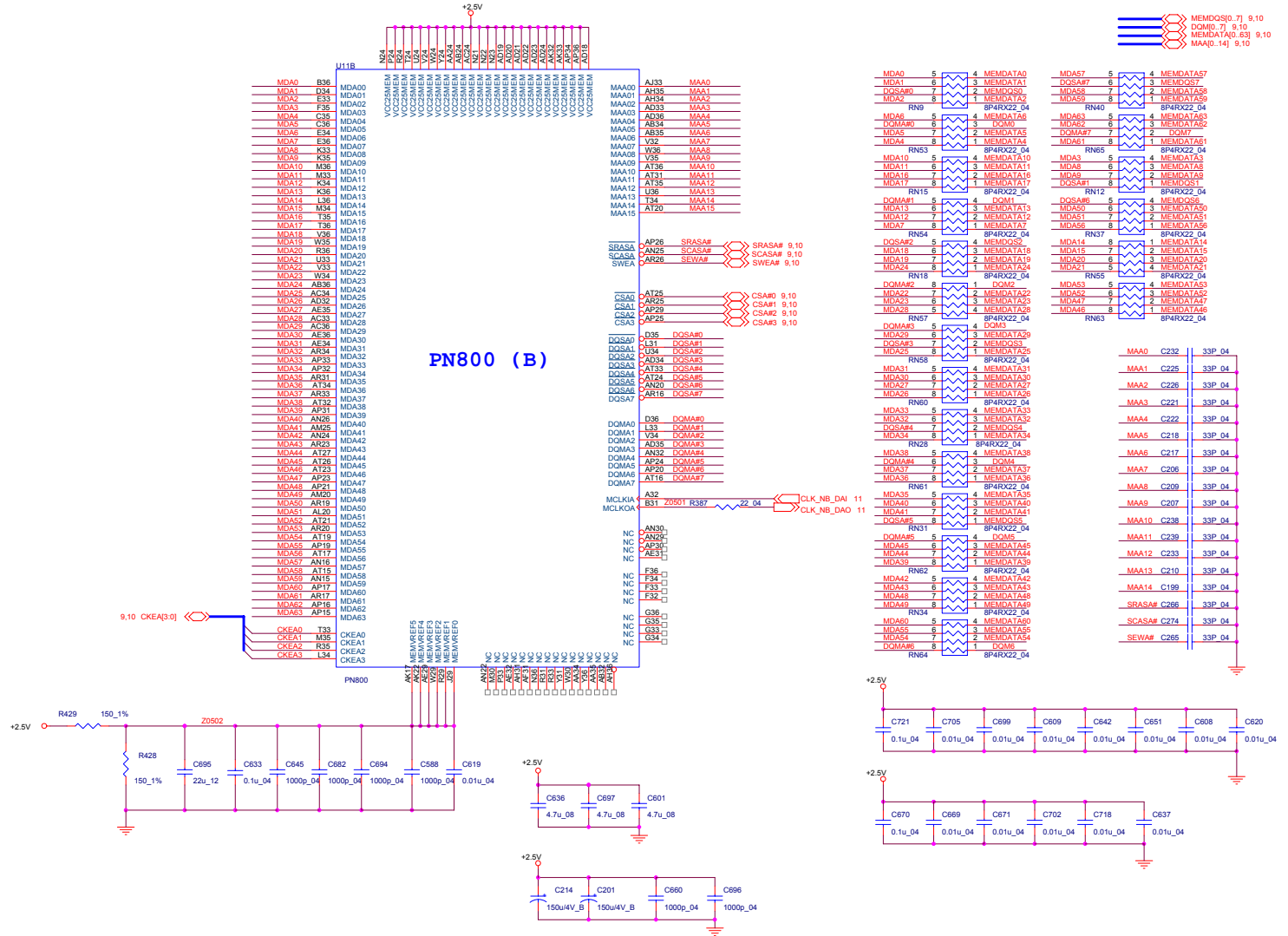




# PN800 2/5

Sheet 5 of 41  
PN800 2/5

## PN800 (B)

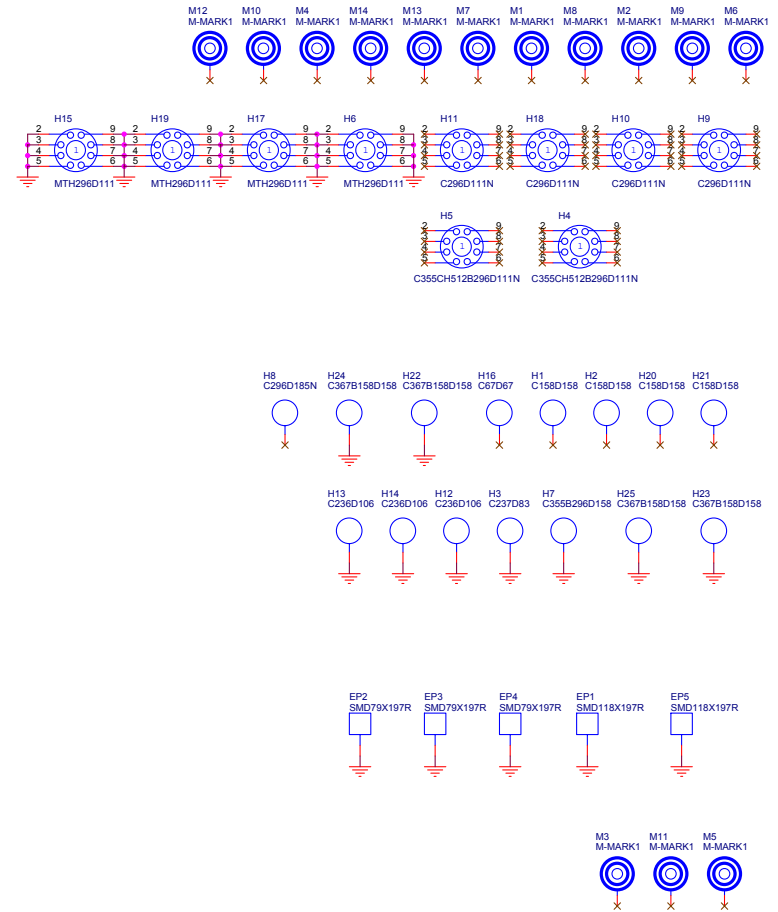
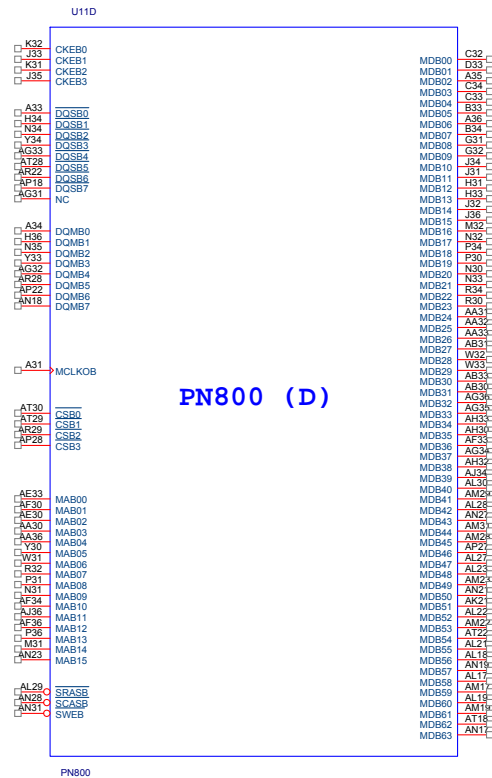




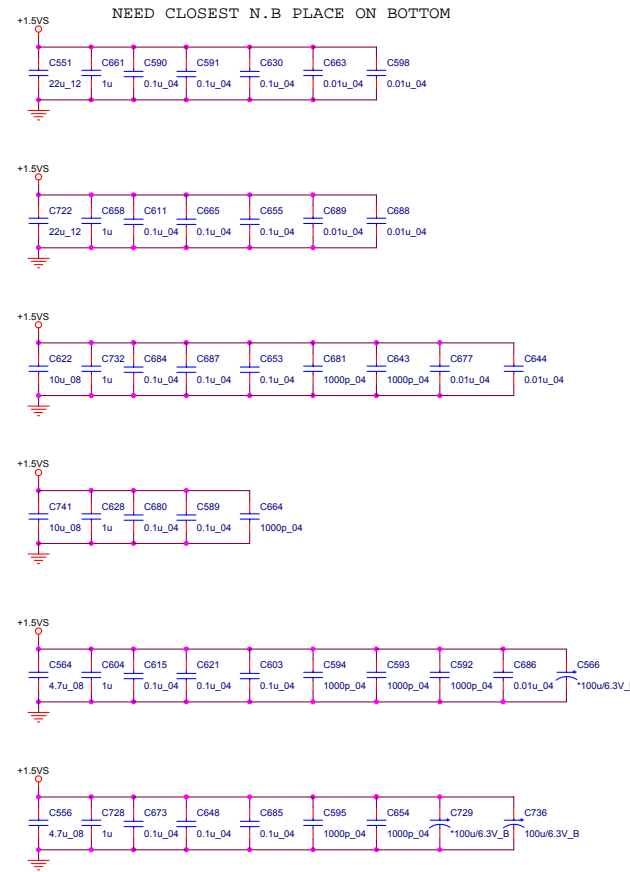
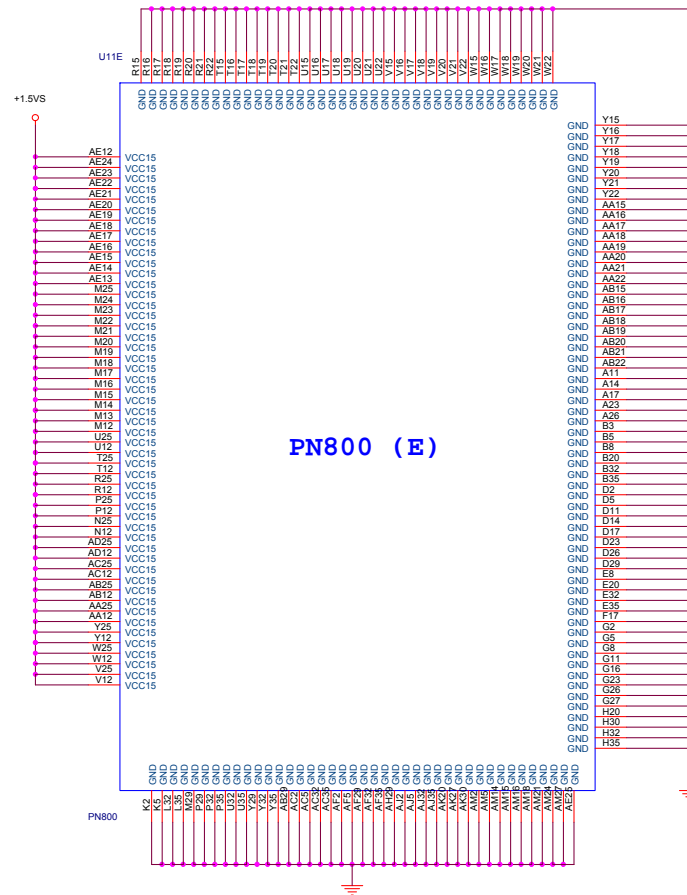


# PN800 4/5

Sheet 7 of 41  
PN800 4/5



# PN800 5/5



Decoupling capactors

Sheet 8 of 41  
PN800 5/5

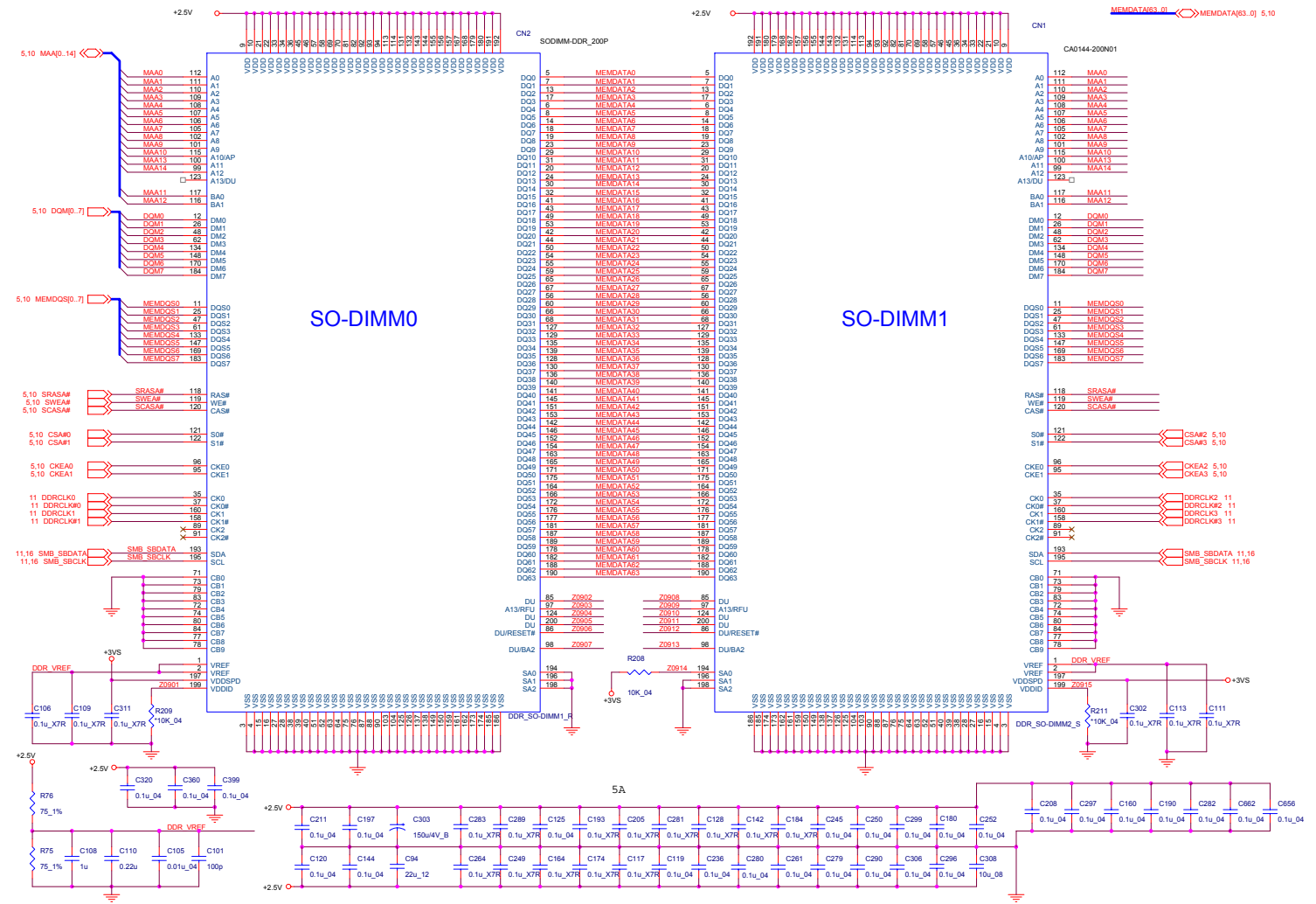
B. Schematic Diagrams

# Schematic Diagrams

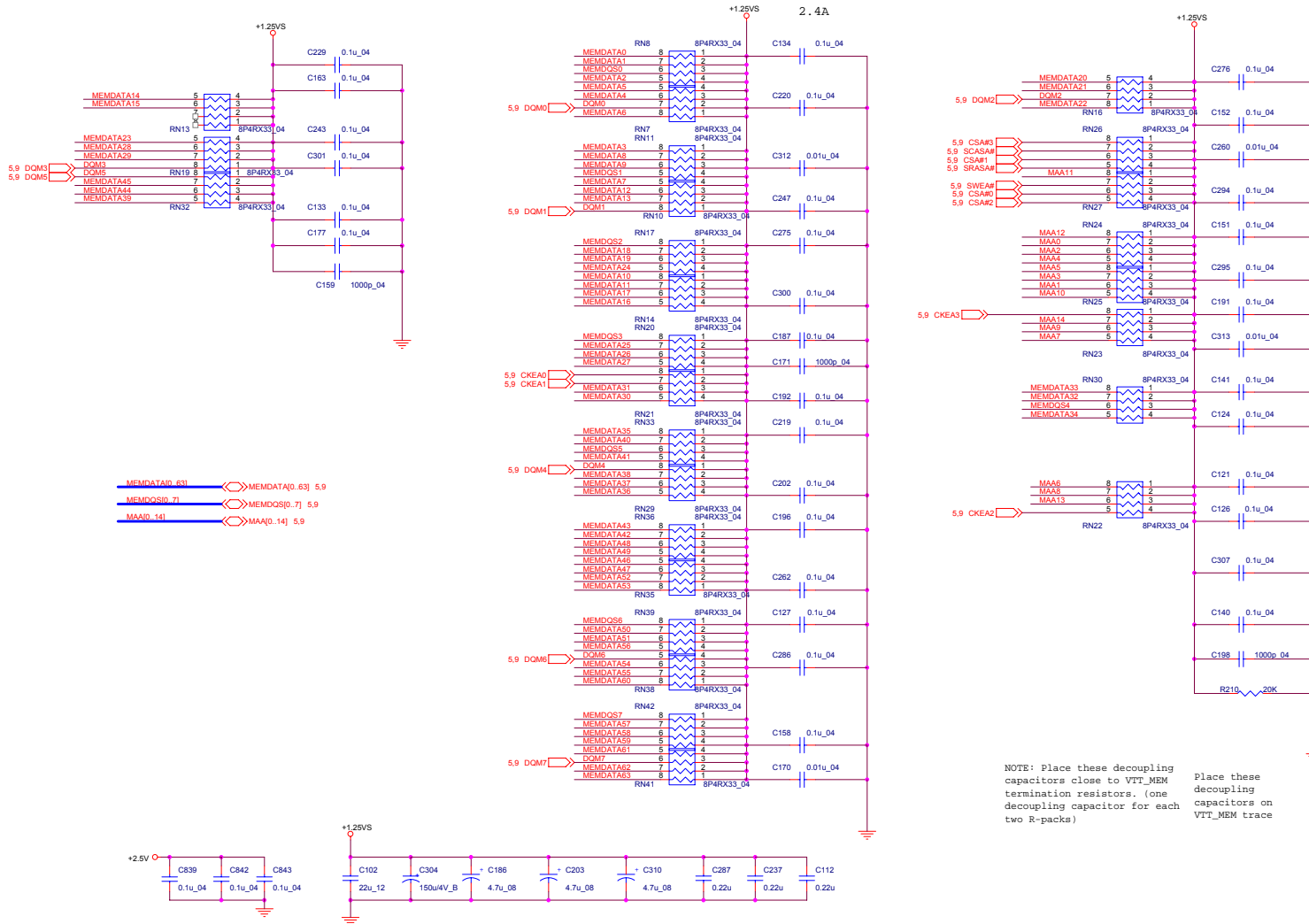
## DDR SO-DIMM

B.Schematic Diagrams

Sheet 9 of 41  
DDR SO-DIMM



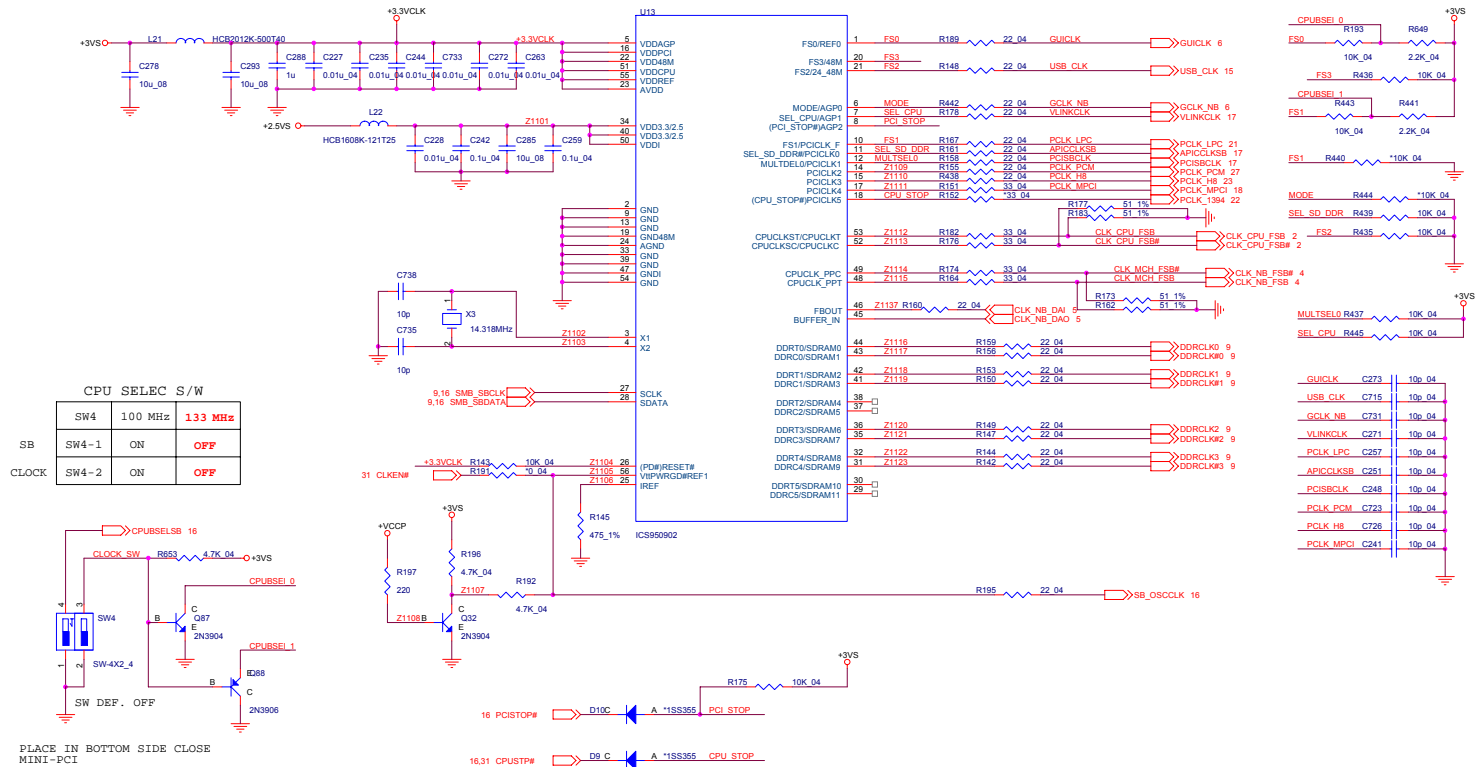
# DDR TERMINATION



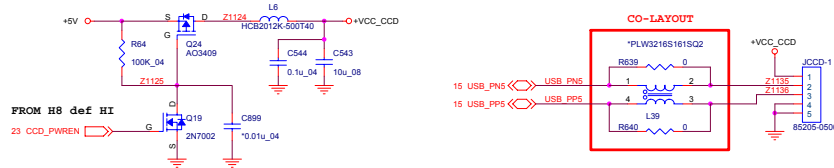
Sheet 10 of 41  
DDR  
TERMINATION

# CLOCK GENERATOR, CCD

## CLOCK GENERATOR

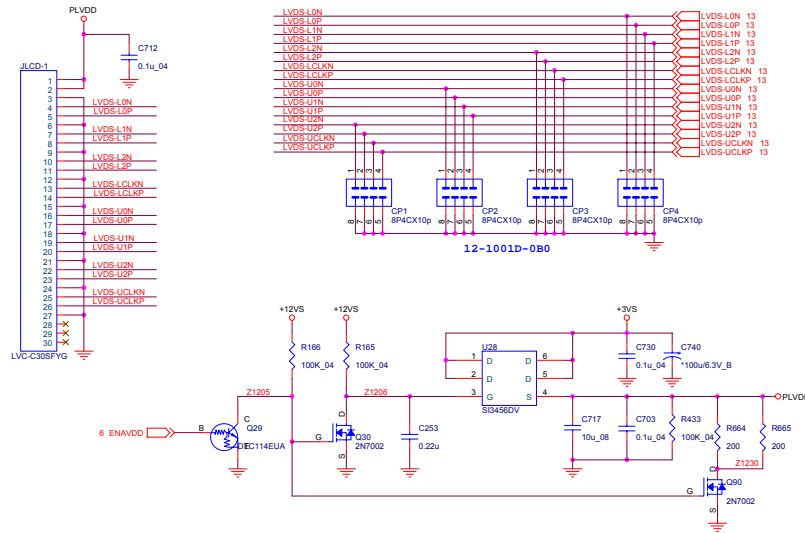


## CCD



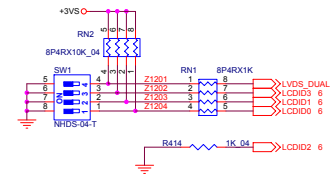
# PANEL, INVERTER, FAN

## PANEL



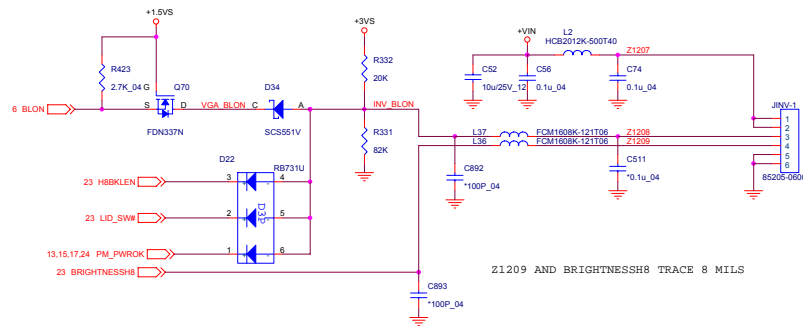
## PANLE ID SELECTOR

PANEL TYPE	PANEL ID	SW1-4	SW1-3	SW1-2	SW1-1	Resolution	CH
1.5 XGA	2	0	0	1	0	1024X768	1
1.4 WXGA	3	0	0	1	1	1280X768	1
	7	0	1	1	1	1280X800	1
	4	1	1	0	0	1280x1024	2
1.5 SXGA+	5	1	1	0	1	1400x1050	2
	6	1	1	1	0	1600x1200	2

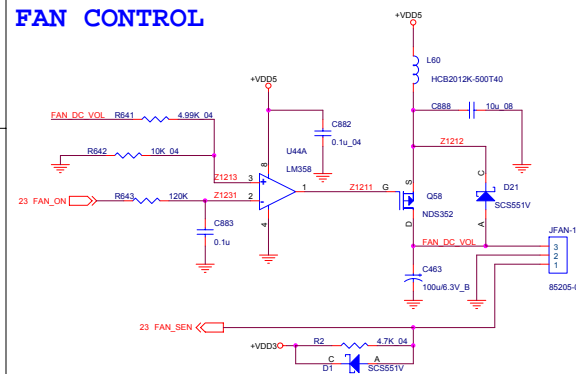


Sheet 12 of 41  
PANEL, INVERTER,  
FAN

## INVERTER CONNECTOR



## FAN CONTROL



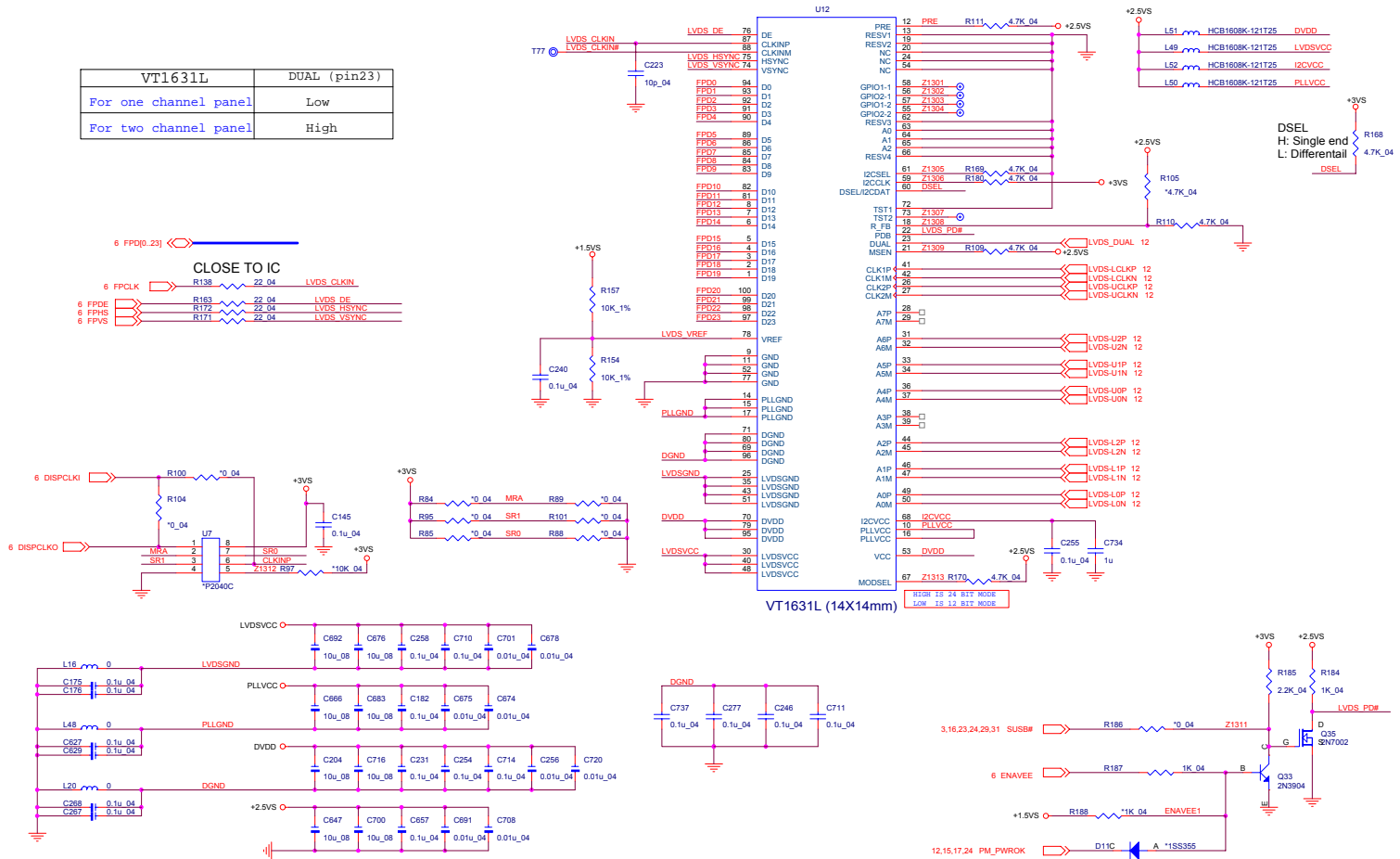
B. Schematic Diagrams

# VIA LVDS VT-1631L

VT1631L	DUAL (pin23)
For one channel panel	Low
For two channel panel	High

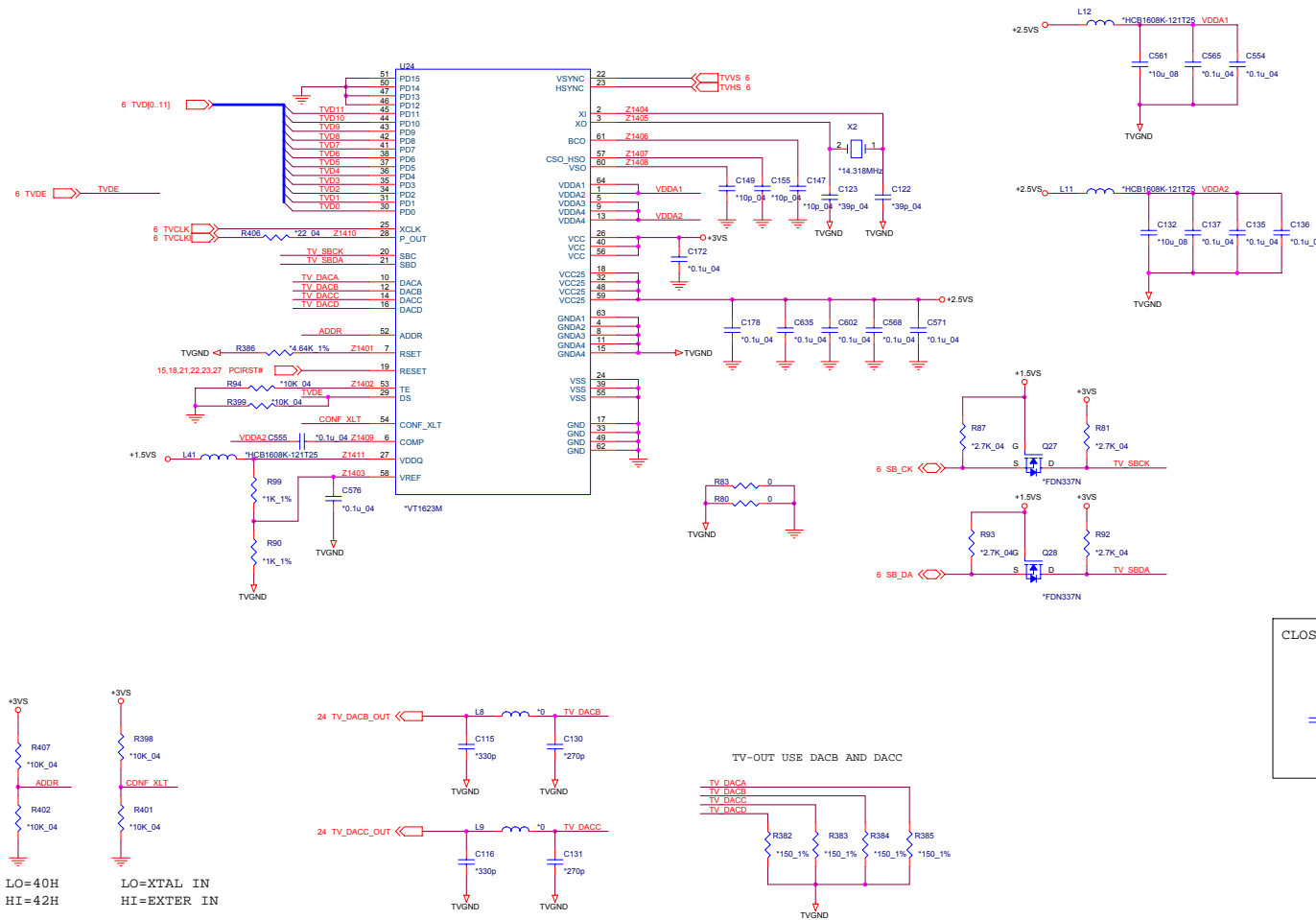
Sheet 13 of 41  
VIA LVDS VT-1631L

B.Schematic Diagrams



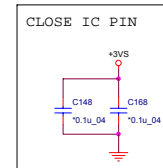


# TV ENCODER



Sheet 14 of 41  
TV ENCODER

B. Schematic Diagrams

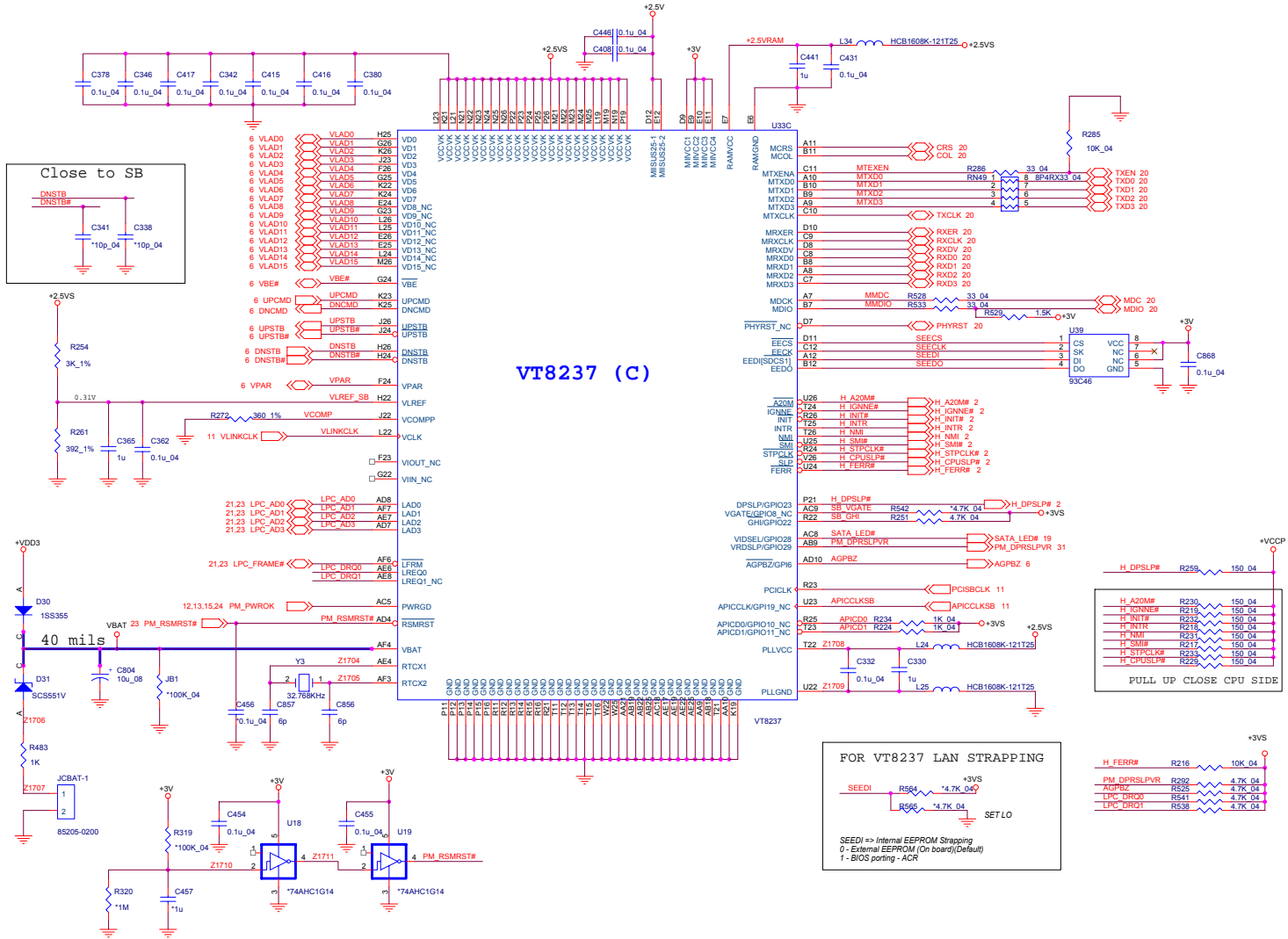






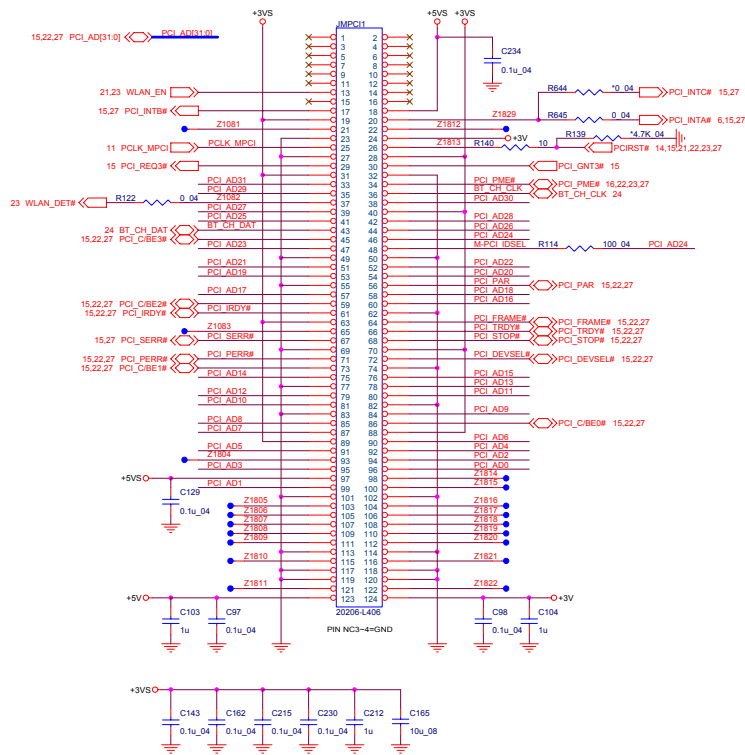
# VT8237 3/3

Sheet 17 of 41  
VT8237 3/3

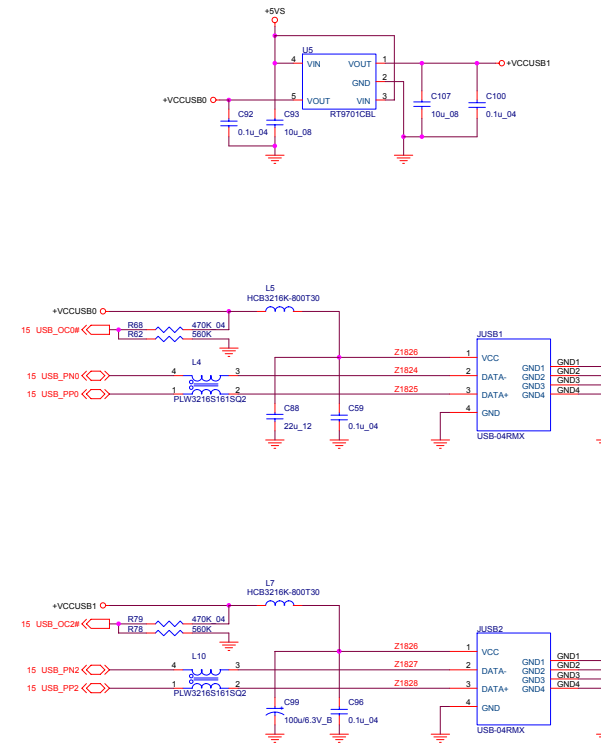


# MINI PCI, USB2.0\*2

## MINI PCI



## USB 2.0

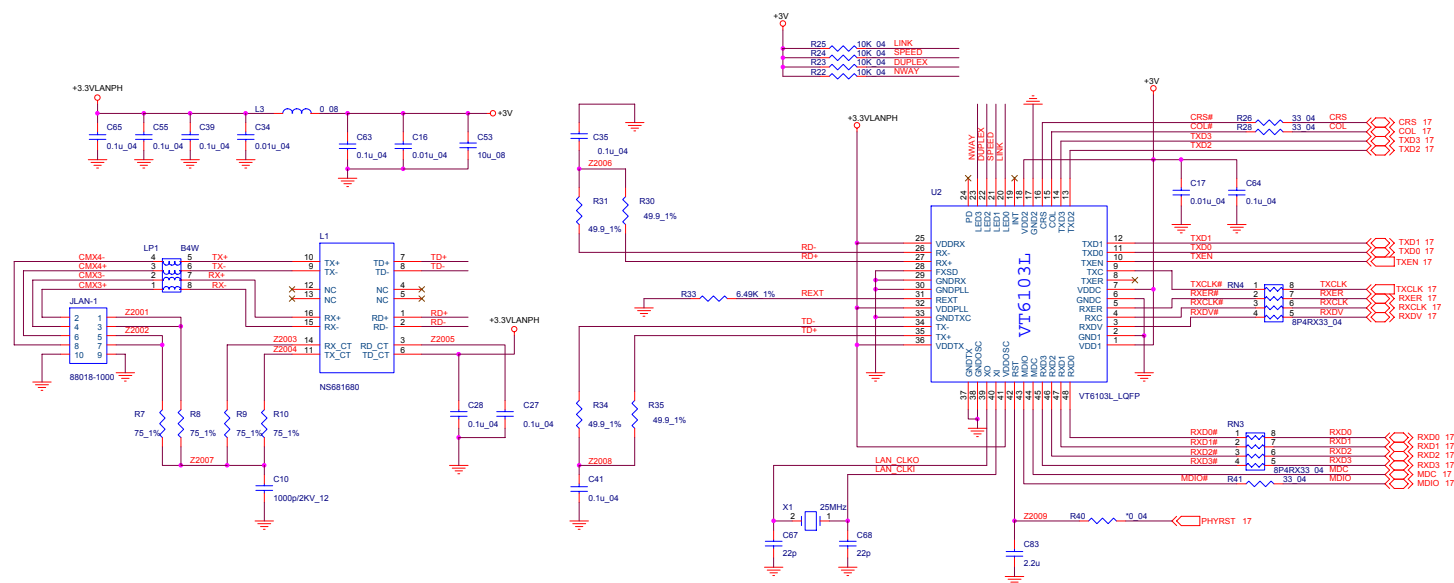


Sheet 18 of 41  
MINI PCI, USB2.0\*2



# LAN PHY

Sheet 20 of 41  
LAN PHY

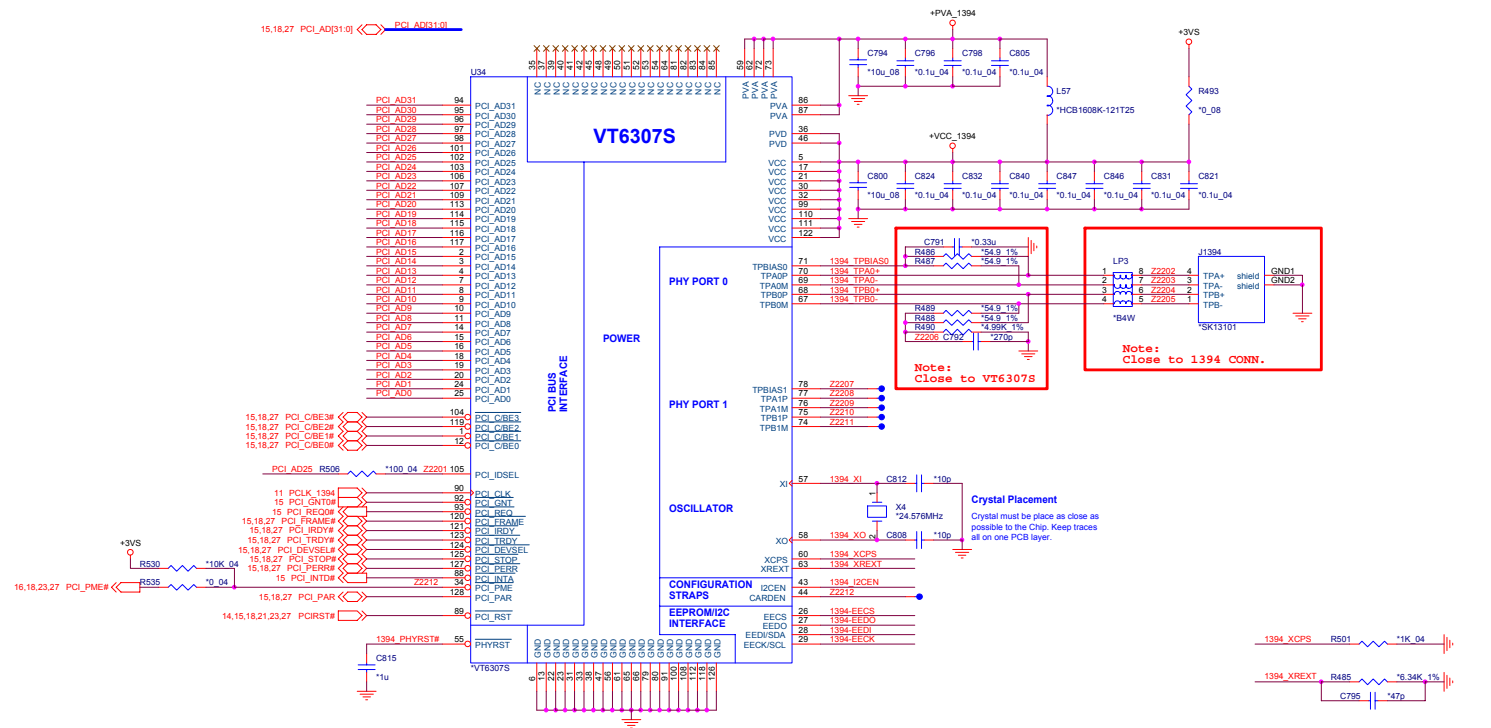






# IEEE 1934 VT6307S

## IEEE1394



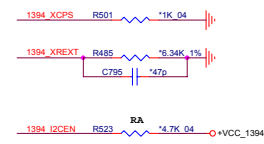
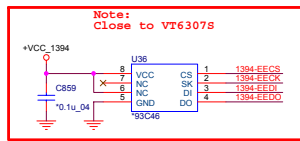
Sheet 22 of 41  
IEEE 1934 VT6307S

B. Schematic Diagrams

**1394\_TPA0+, 1394\_TPA0- & 1394\_TPB0+, 1394\_TPB0- Layout Note:**

1. VT6307S to Connector max length is 7"
2. Differential pair impedance is 110 ohms +- 6 ohms
3. Differential pair trace layout from VT6307S to 1394 connector must be parallel
4. Trace Layout

1394\_TPA0+ > Equal length > -- 50 mils  
 1394\_TPA0- > Equal length > -- 50 mils  
 1394\_TPB0+ > Equal length > -- 50 mils  
 1394\_TPB0- > Equal length > -- 50 mils



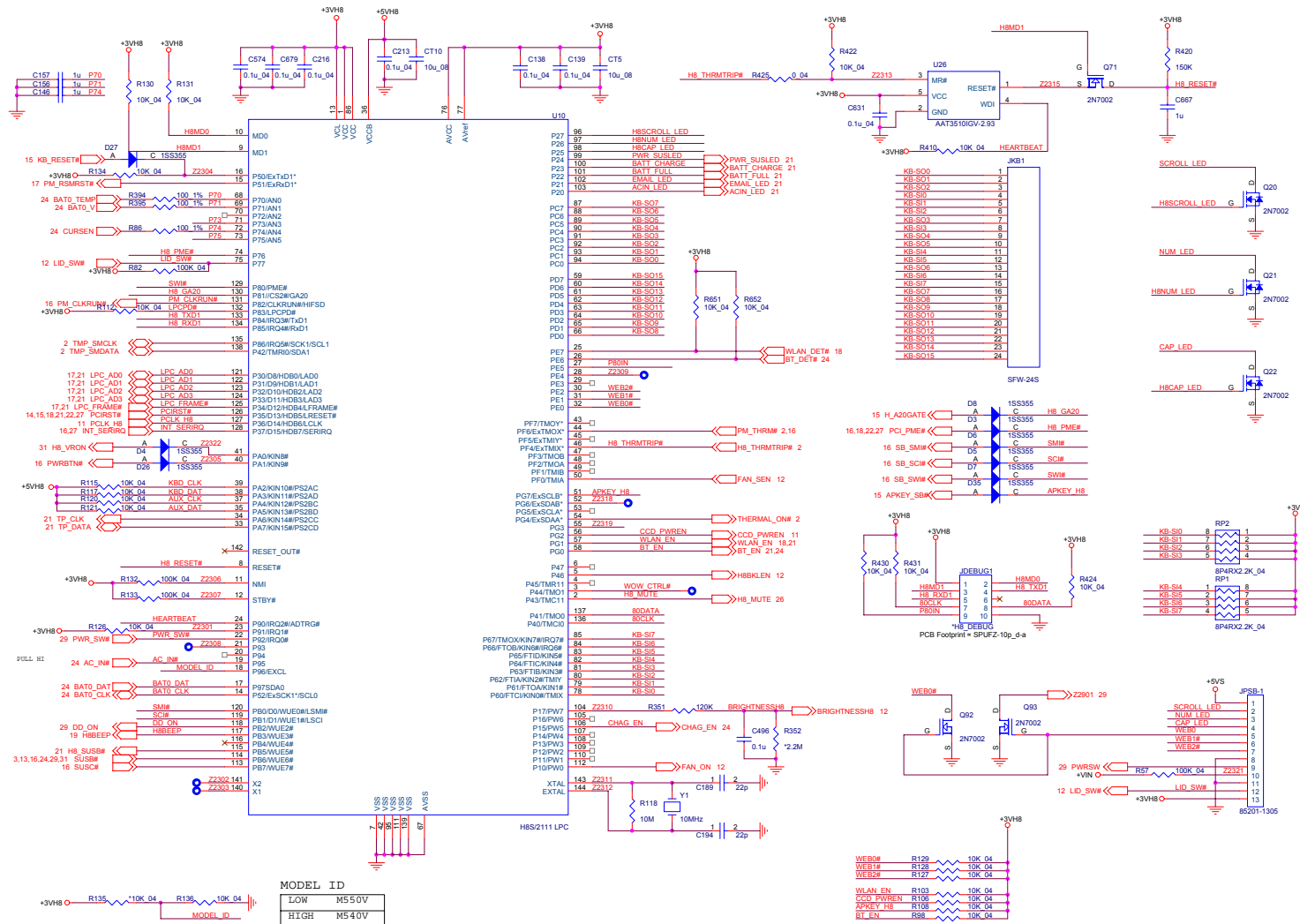
EEPROM	RA
4-Wire	X
I2C	4.7K

# Schematic Diagrams

## H8-2111

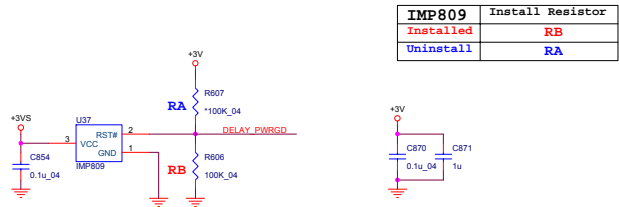
Sheet 23 of 41  
H8-2111

B.Schematic Diagrams

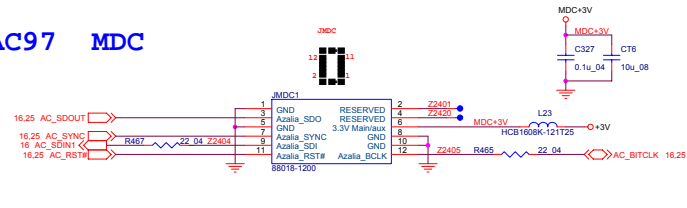


# MDC, USB BT, PWRGD, DDB CON

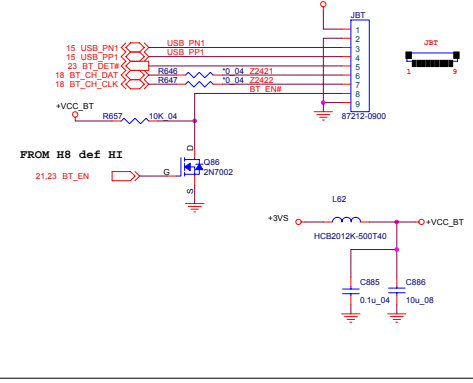
ALL POWER OK TO SB



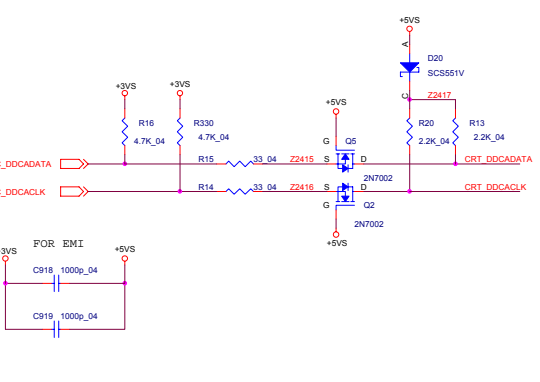
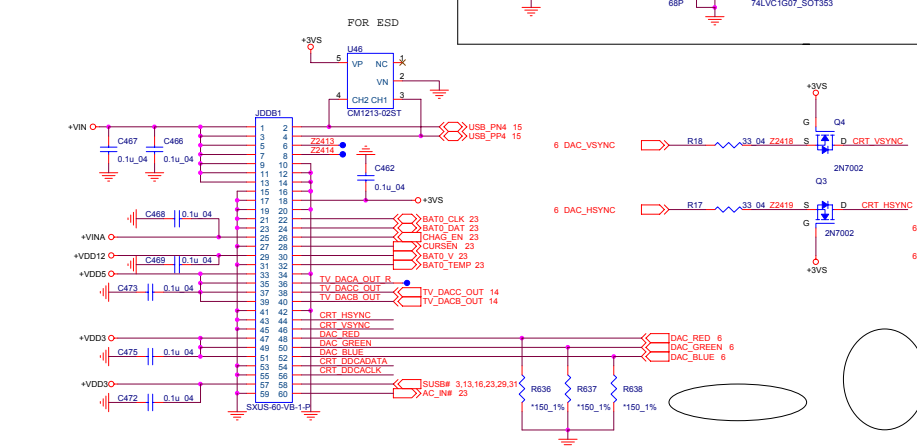
AC97 MDC



USB BLUETOOTH



TO MULTI-FUNCTION BOARD

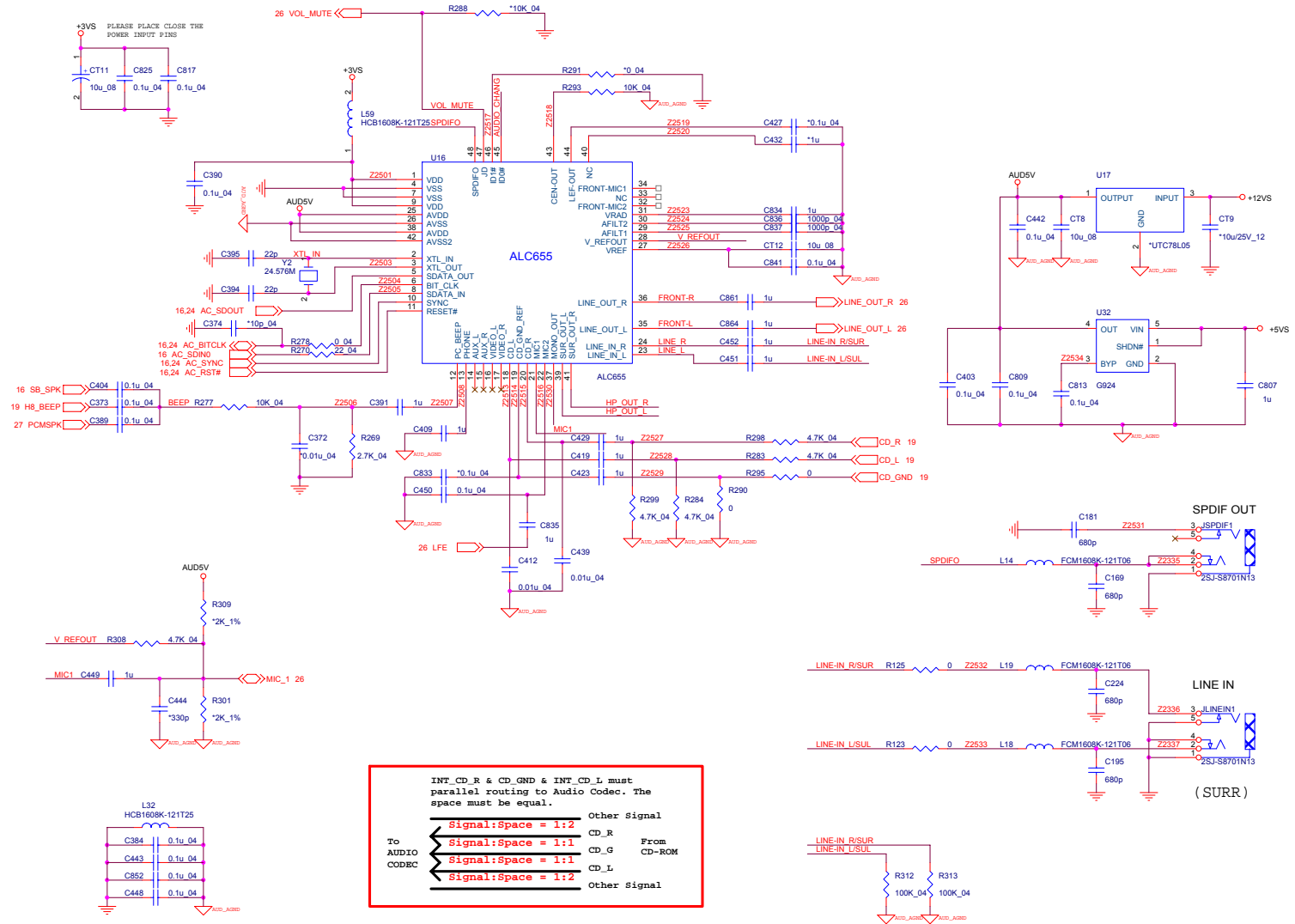


Sheet 24 of 41  
MDC, USB BT,  
PWRGD, DDB CON

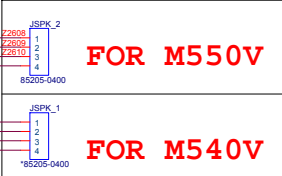
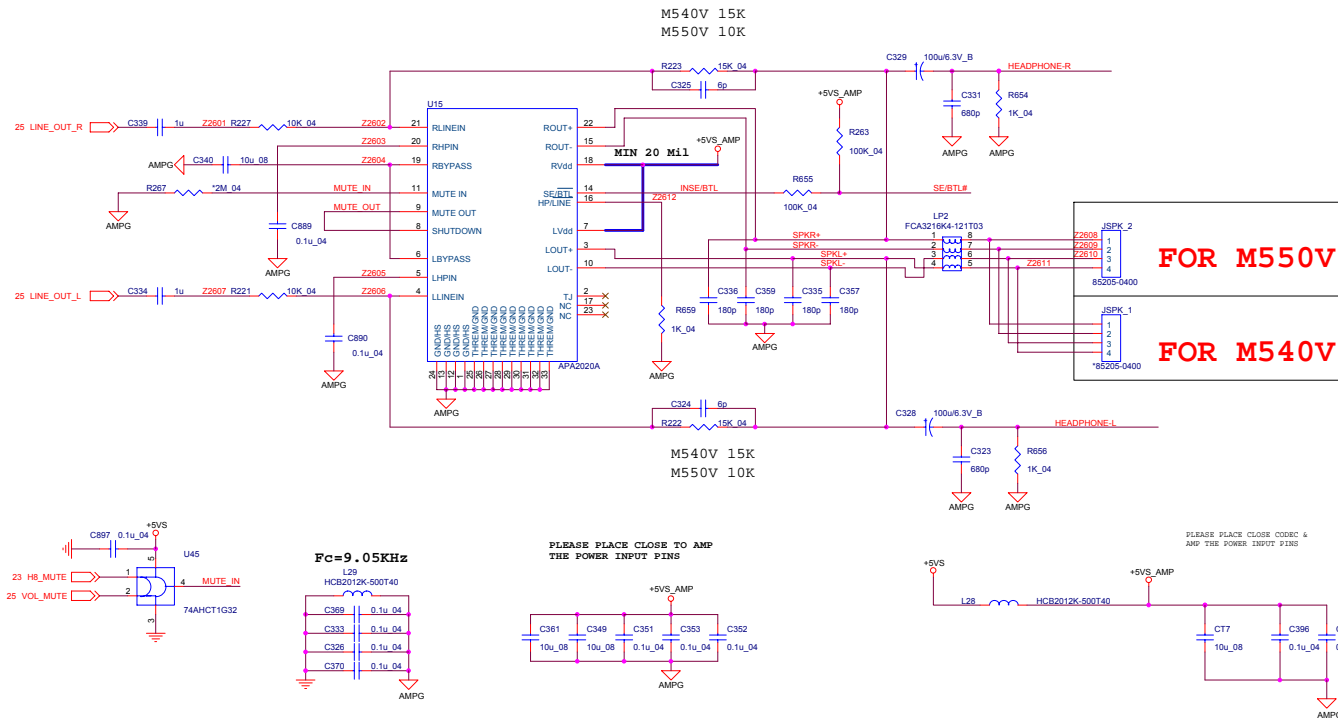
B.Schematic Diagrams

# AC97 CODEC AL655

Sheet 25 of 41  
AC97 CODEC  
ALC655



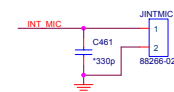
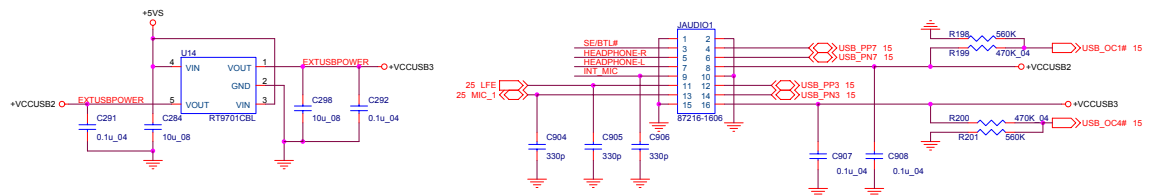
# AUDIO AMP, USB2.0\*2



Sheet 26 of 41  
AUDIO AMP,  
USB2.0\*2

B.Schematic Diagrams

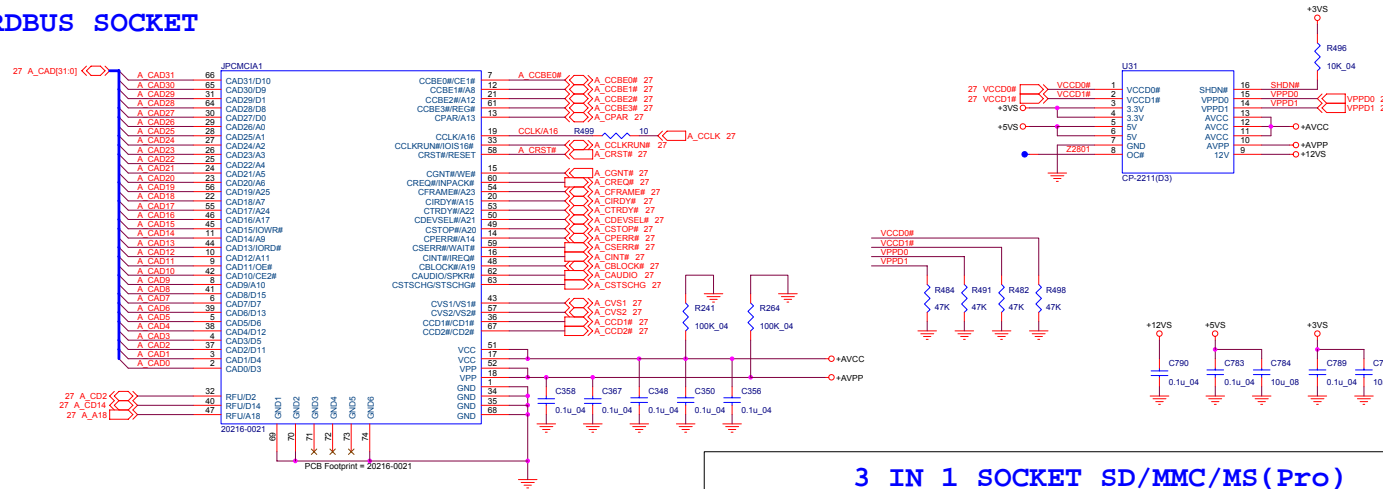
TO PHONE JACK  
B'D USB CONN.





# PCM SOCKET, 3 IN 1 SOCKET

## CARDBUS SOCKET

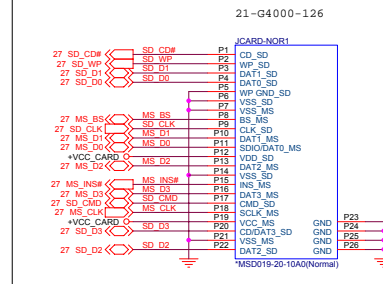


Sheet 28 of 41  
PCM SOCKET, 3 IN 1 SOCKET

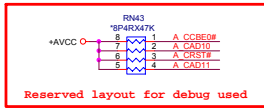
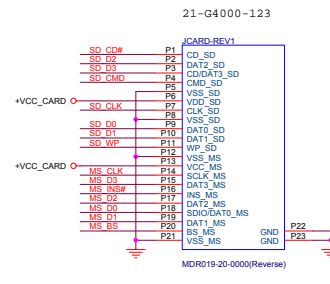
B.Schematic Diagrams

## 3 IN 1 SOCKET SD/MMC/MS (Pro)

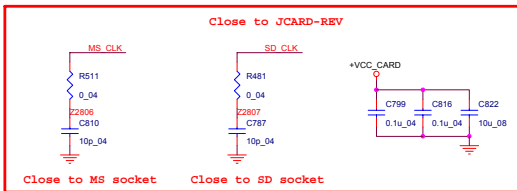
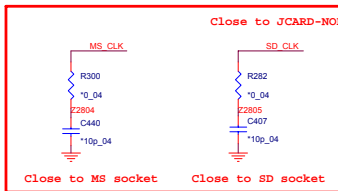
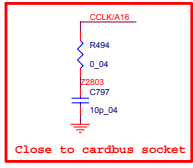
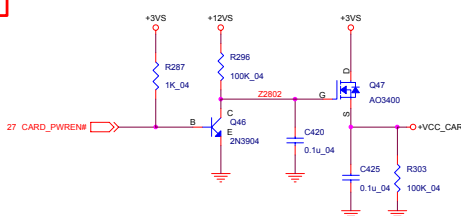
### INSTALL FOR M540V



### INSTALL FOR M550V

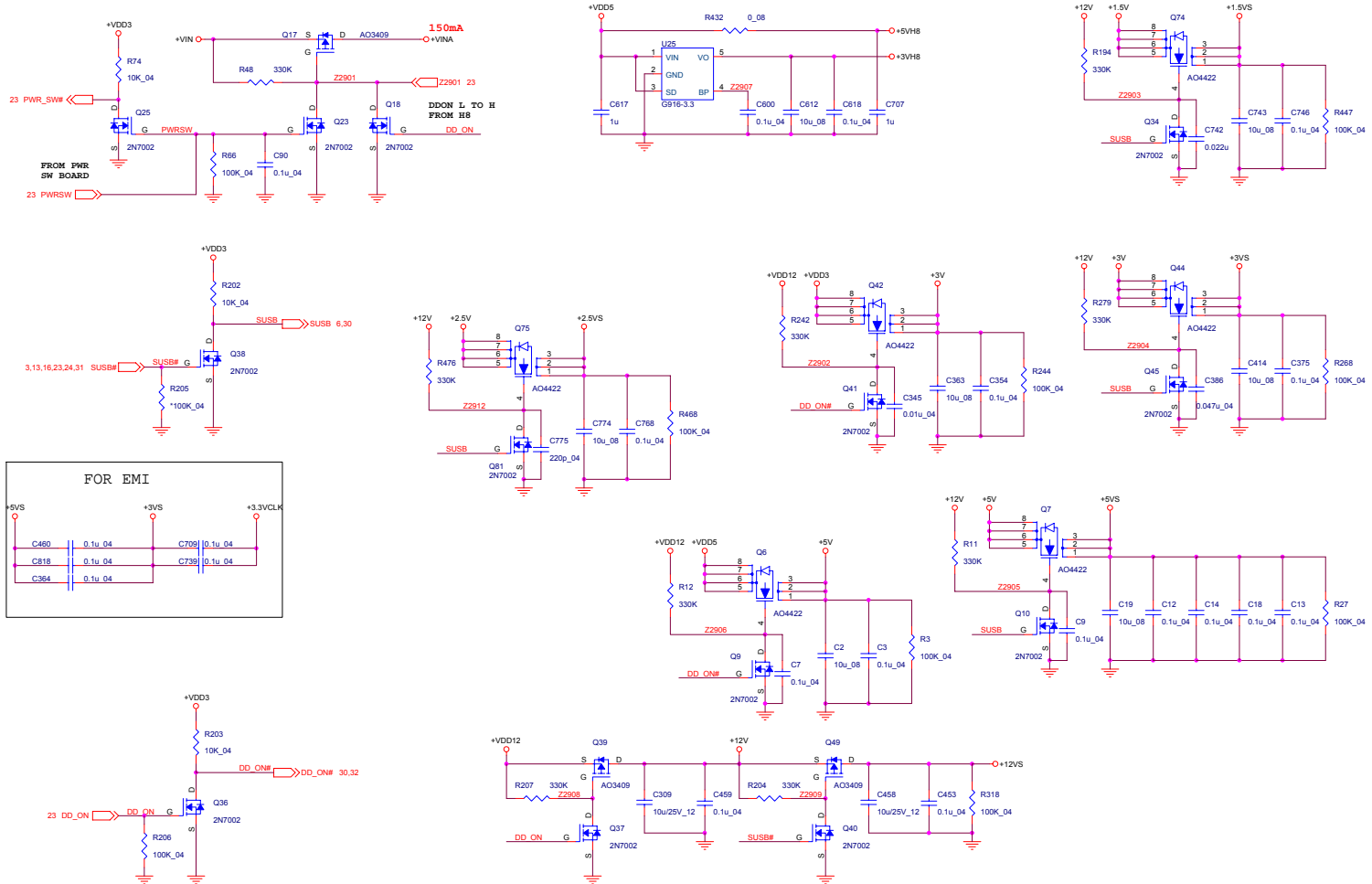


### Card Reader Power



# SYSTEM POWER

Sheet 29 of 41  
SYSTEM POWER

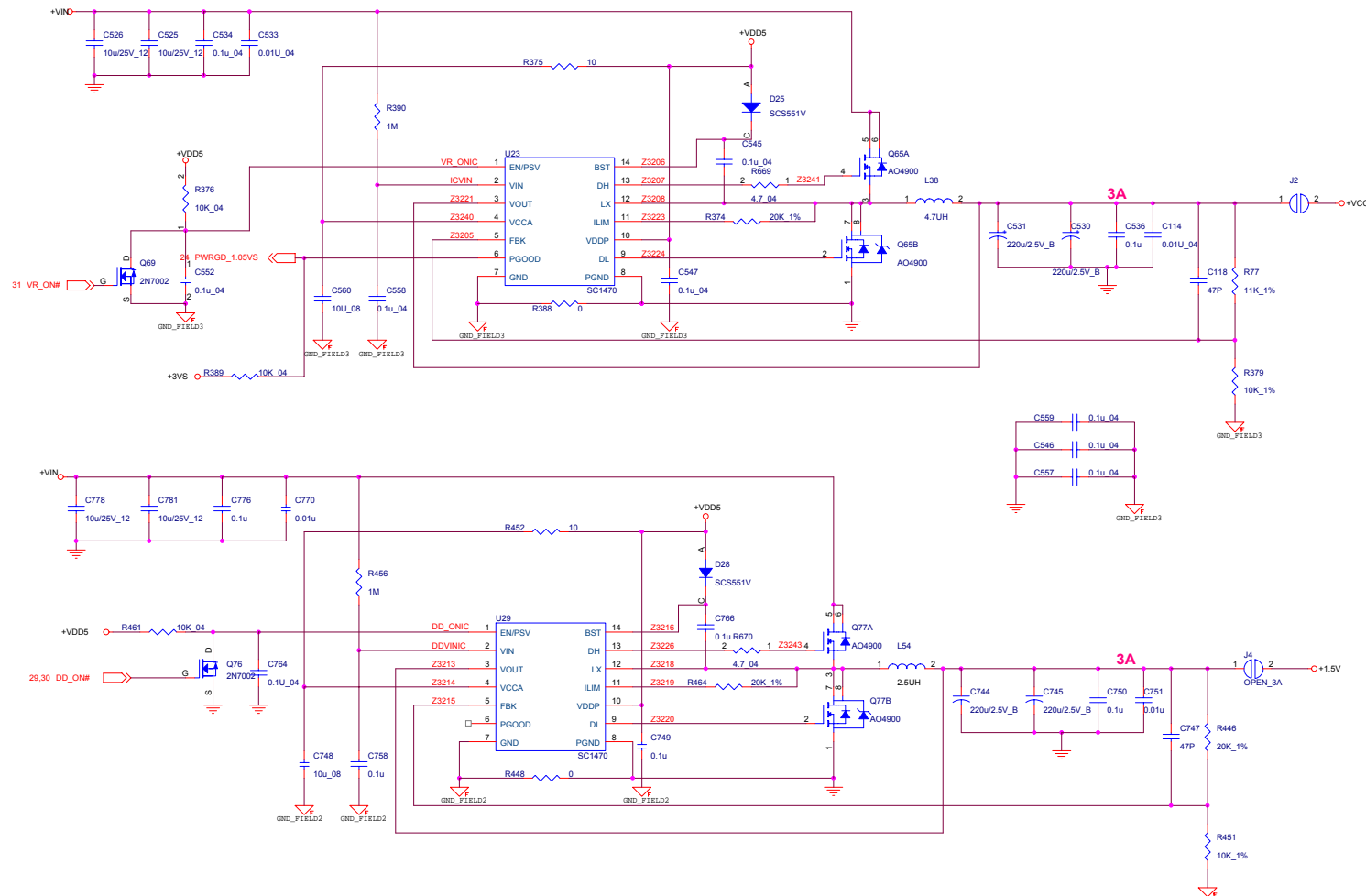








# VCCP, +1.5V

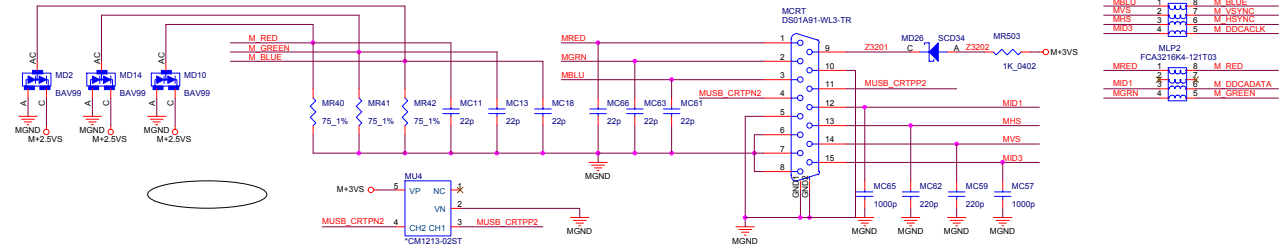


Sheet 32 of 41  
VCCP, +1.5V

# Schematic Diagrams

## D/D BD (CRT, S-VIDEO, RJ11)

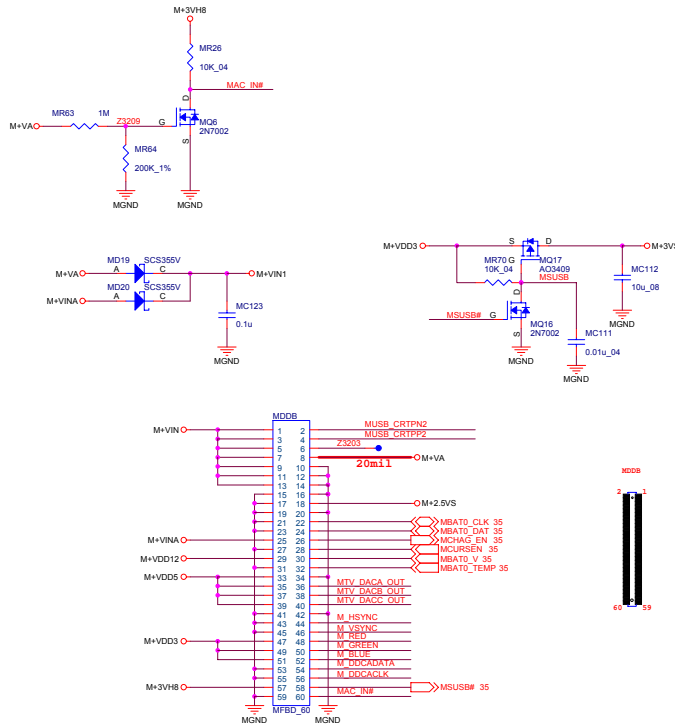
### CRT



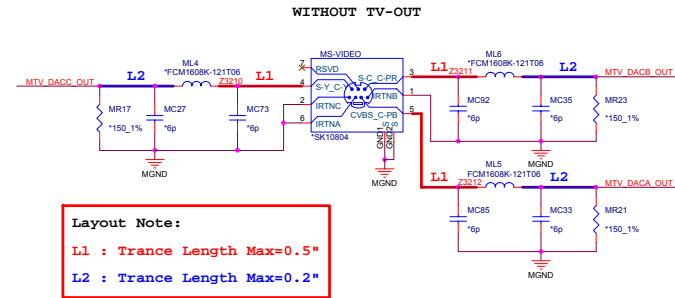
MLP1 FCA3216K4-121T03		MLP2 FCA3216K4-121T03	
MBLU	1	8	M_BLUE
MHS	2	7	M_VSYNC
MHS	3	6	M_HSYNC
MBS	4	5	M_DDCACLK
MRED	1	8	M_RED
MD1	2	7	M_DDCADATA
MGRN	3	6	M_GREEN

B.Schematic Diagrams

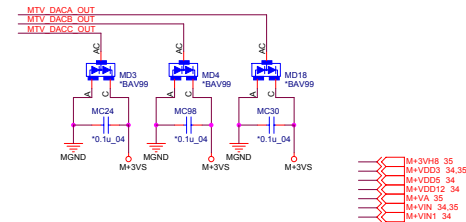
Sheet 33 of 41  
D/D BD (CHARGER,  
DC IN)



### S-VIDEO



**Layout Note:**  
L1 : Trance Length Max=0.5"  
L2 : Trance Length Max=0.2"

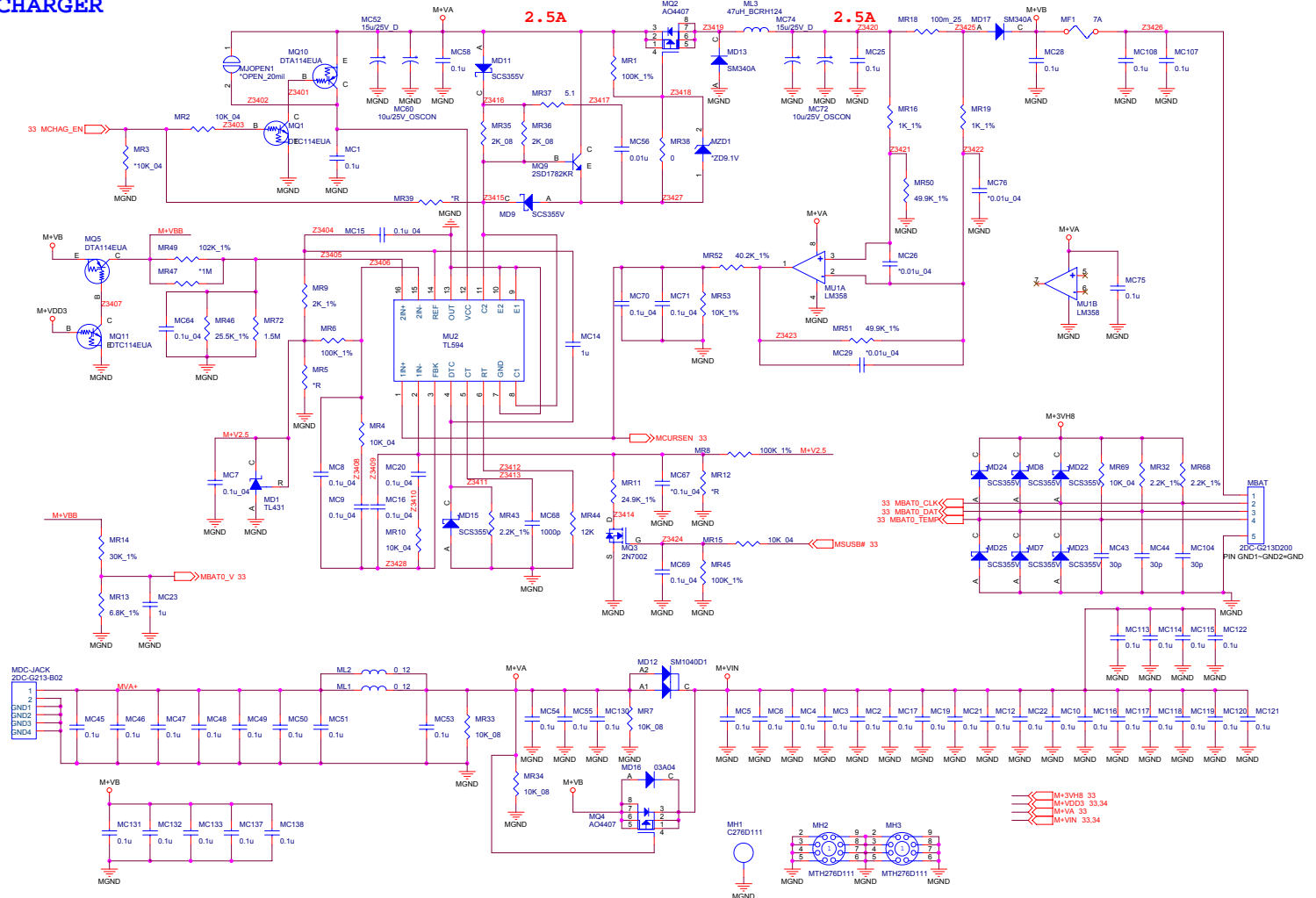


M+3VH8	35
M+VDD3	34,35
M+VDD5	34
M+VDD12	34
M+VA	35
M+VIN	34,35
M+VIN1	34



# D/D BD (CHARGER, DC IN)

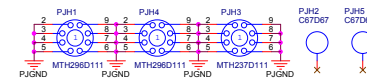
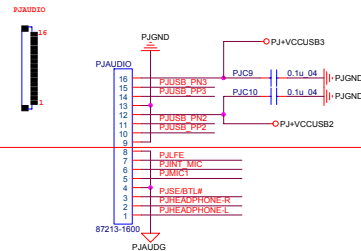
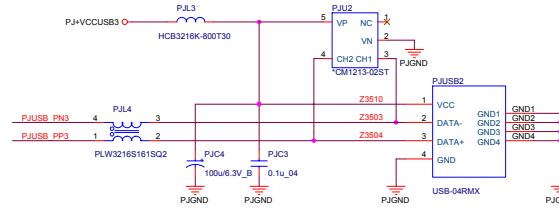
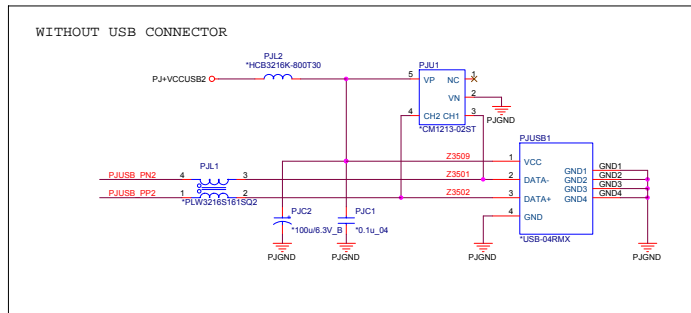
## CHARGER



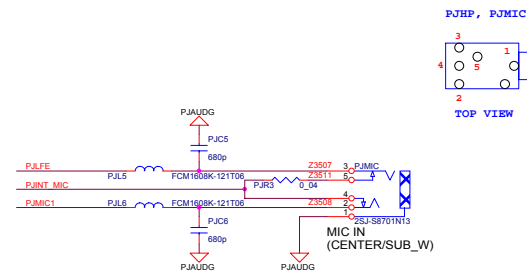
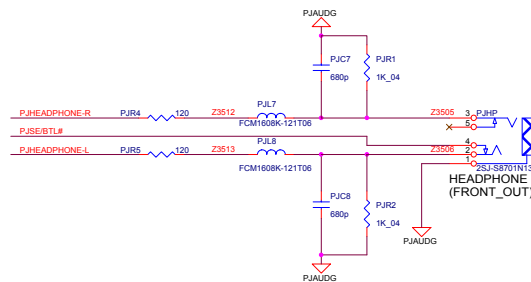
Sheet 35 of 41  
D/D BD (CHARGER, DC IN)

# AUDIO BD (PHONE JACK, USB)

## DIGITAL PLANE

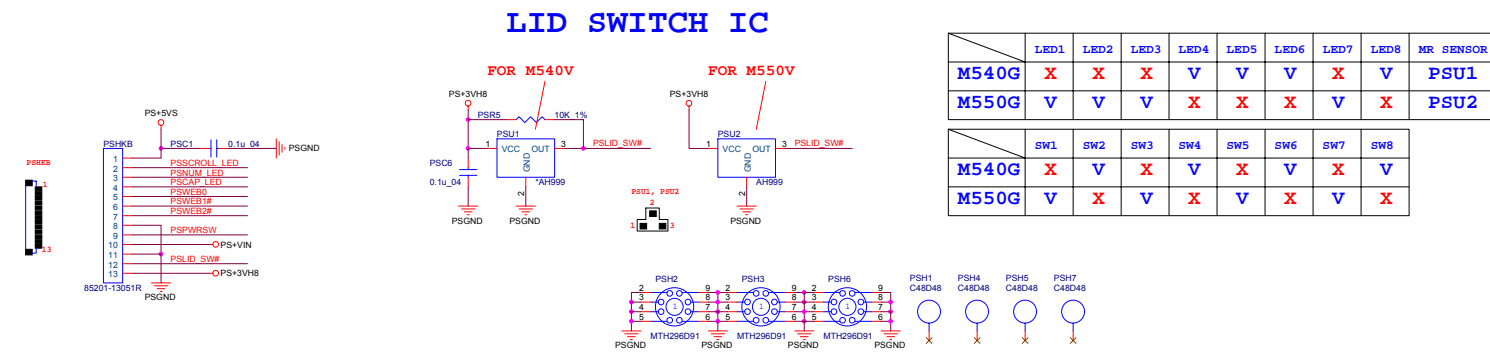
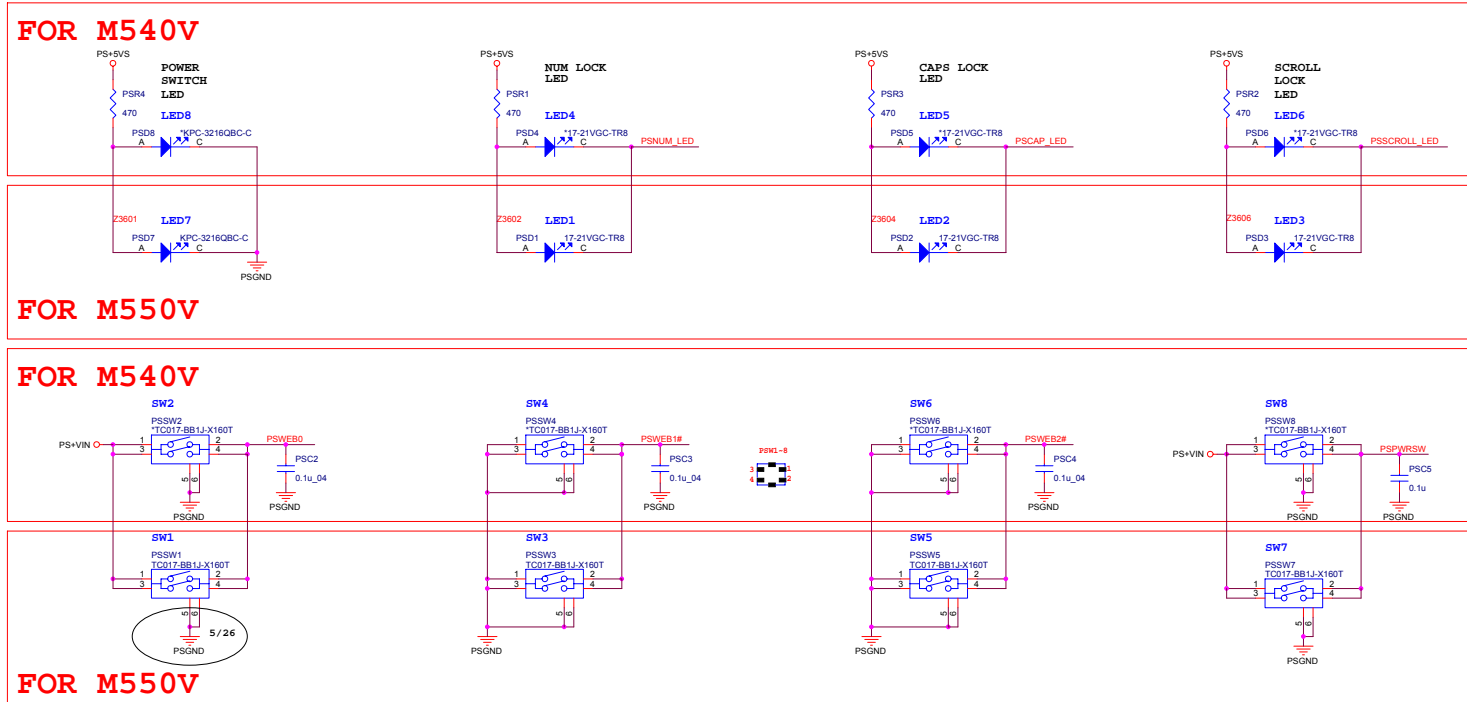


## ANALOG PLANE



Sheet 36 of 41  
AUDIO BD (PHONE JACK, USB)

# HOT KEY BD (HOT KEY, LED)

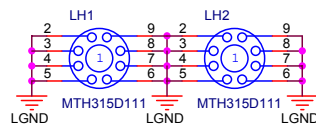
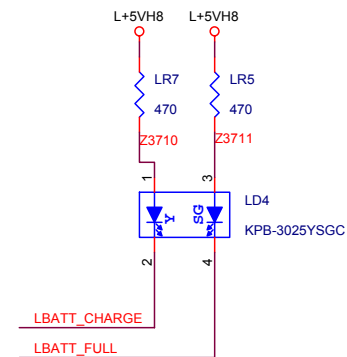
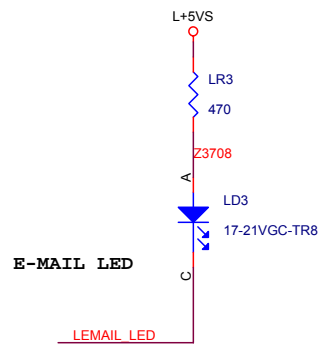
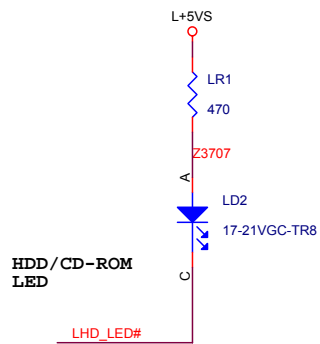
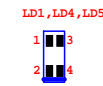
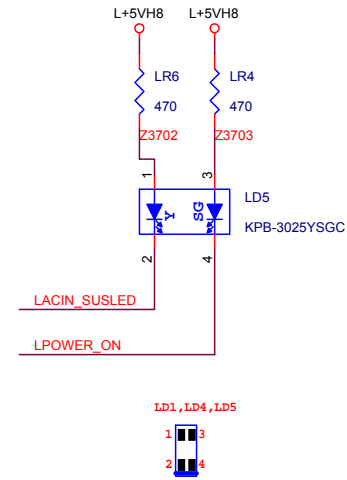
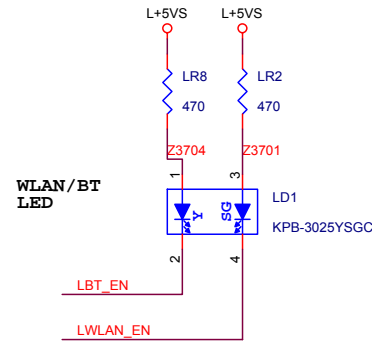
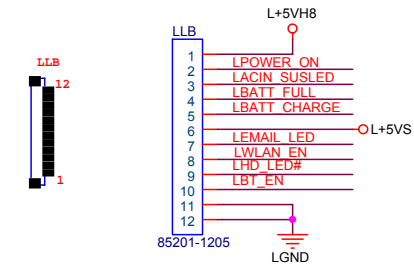


B.Schematic Diagrams

Sheet 37 of 41  
HOT KEY BD (HOT KEY, LED)



# LED BOARD FOR M550V

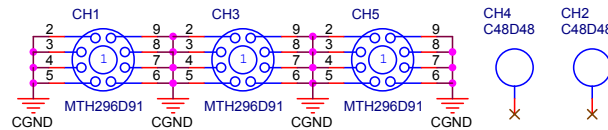
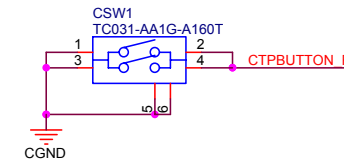
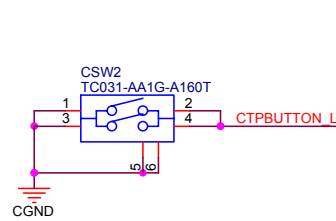
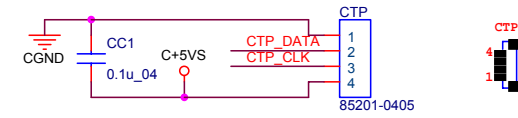
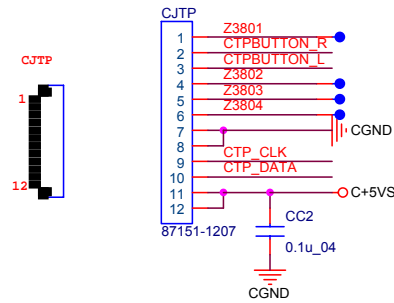


Sheet 38 of 41  
LED BOARD

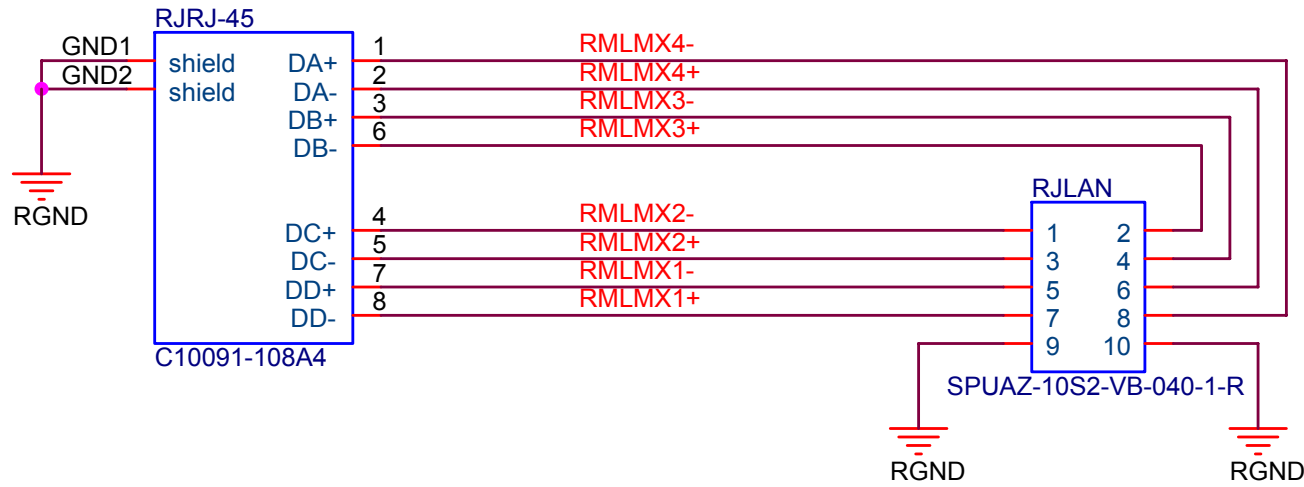
# CLICK BOARD FOR M550V

VENDOR	PART NUMBER
Synaptics	
E-LAN	800409-5102

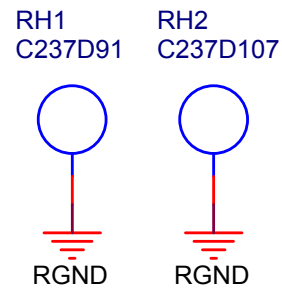
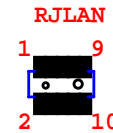
Sheet 39 of 41  
CLICK BOARD



# RJ-45 BOARD



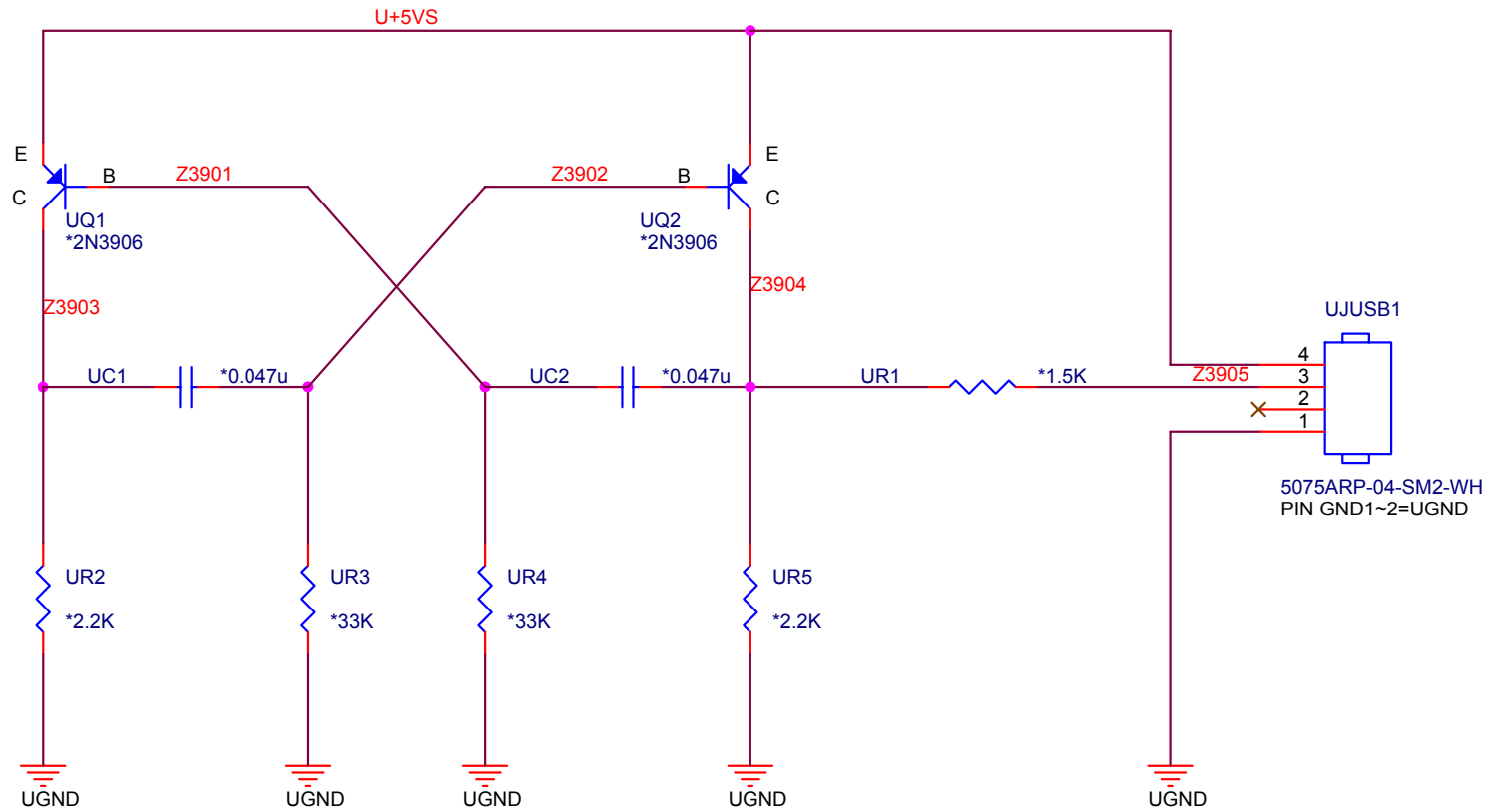
Sheet 40 of 41  
RJ-45 BOARD



# USB DANGLE BOARD

## USB DANGLE BOARD

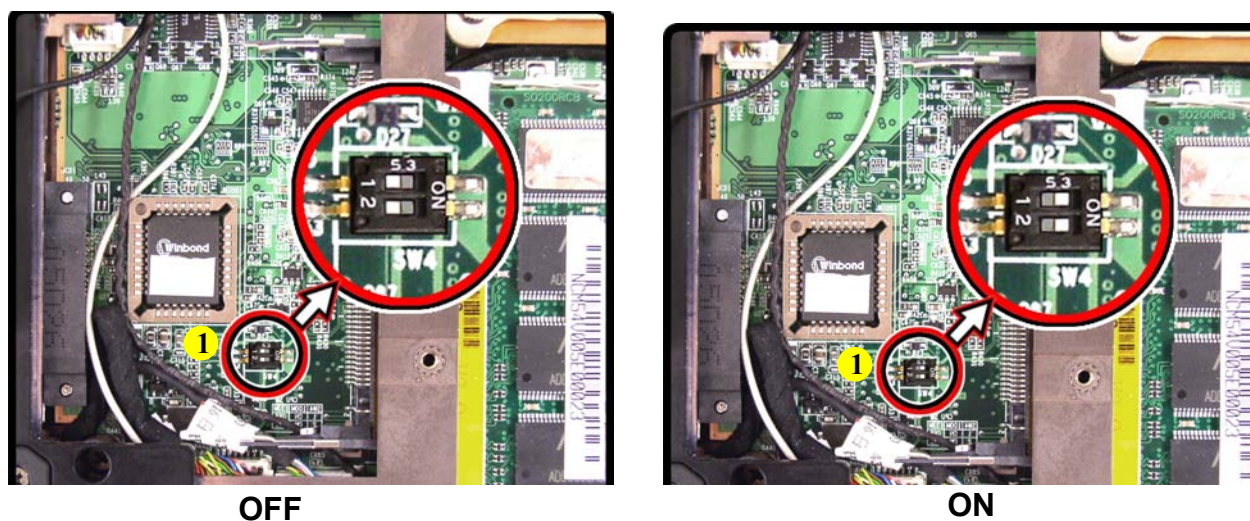
Sheet 41 of 41  
CLICK BOARD



## Appendix C: Switches

This appendix is about the system's switch settings.

The following figure shows the location of the DIP Switch used for setting the CPU Clock Front Side Bus Speed. You can access the switch by removing the Wireless LAN Module. Be sure to turn OFF the system before you perform any maintenance/upgarde procedure.



*Figure C - 1*  
Mainboard Switch  
and Jumper  
Location

1. SW4

### Settings

#### CPU Clock Setup (Switch SW4)

SW4	1	2
FSB 100	ON	ON
FSB 133	OFF	OFF



[www.s-manuals.com](http://www.s-manuals.com)