

Acer TravelMate C200 Series

Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to <http://csd.acer.com.tw>

PRINTED IN TAIWAN

Revision History

Please refer to the table below for the updates made on TravelMate C200 service guide.

| Date | Chapter | Updates |
|------|---------|---------|
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Conventions

The following conventions are used in this manual:

| | |
|------------------------|--|
| SCREEN MESSAGES | Denotes actual messages that appear on screen. |
| NOTE | Gives bits and pieces of additional information related to the current topic. |
| WARNING | Alerts you to any damage that might result from doing or not doing specific actions. |
| CAUTION | Gives precautionary measures to avoid possible hardware or software problems. |
| IMPORTANT | Reminds you to do specific actions relevant to the accomplishment of procedures. |

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

System Specifications

Features

This computer was designed with the user in mind. Here are just a few of its many features:

Performance

- ☐ Intel® Pentium® M processor 725/730/740/750/760/770 (2MB L2 cache, 1.60/1.73/1.86/2/2.13 GHz, 533 MHz FSB)
- ☐ Intel® Celeron® M processor 350/360/370/380 (1MB L2 cache, 1.30/1.40/1.50/1.60 GHz, 400 Mhz FSB)
- ☐ Intel® 915PM/915GM/910GML+ICH6-M (north bridge+south bridge)
- ☐ Wireless solution: integrated Intel PRO/Wireless 2915ABG network connection (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology
- ☐ DVD/CD-RW combo or DVD-dual drive
- ☐ High-capacity Enhanced-IDE hard disk
- ☐ Advanced Configuration Power Interface (ACPI) power management system

Display

- ☐ 12.1" XGA Thin-Film Transistor (TFT) liquid-crystal display (LCD) supporting pen-based input, with 16.7 million color at 1024X768 resolution
- ☐ LCD slides to convert from notebook to tablet mode
- ☐ Graphic controller: NVIDIA® NV44M-V (NVIDIA® GeForce™ Go 6200) with 32MB of VRAM, supporting NVIDIA® TurboCache™ technology up to 128 MB, PCI Express™ and Microsoft® DirectX® 9.0
- ☐ DualView™ support

Communication

- ☐ Modem: 56K ITU V.92 with PTT approval; Wake-on-Ring ready
- ☐ LAN: gigabit Ethernet; Wake-on-LAN ready
- ☐ WLAN: Intel® PRO/Wireless 2915ABG network connection (802.11b/g or 802.11a/b/g) Wi-Fi CERTIFIED™ solution, supporting Acer SignalUp™ wireless technology
- ☐ WPAN: integrated Bluetooth®

Input devices

- ☐ 84-/85-key keyboard with inverted "T" cursor layout
- ☐ Built-in trackpoint with two buttons
- ☐ 12 function keys, four cursor keys, two Windows® key, hotkey controls, embedded numeric keypad, international language support
- ☐ Four easy-launch buttons: Internet, email, Empowering Key, user-programmable button
- ☐ Four tablet-mode buttons: Windows Security, Screen Rotate, Function, Escape
- ☐ 3-way scroll wheel (up/down/enter)
- ☐ Electromagnetic Resonance (EMR) pen with eraser

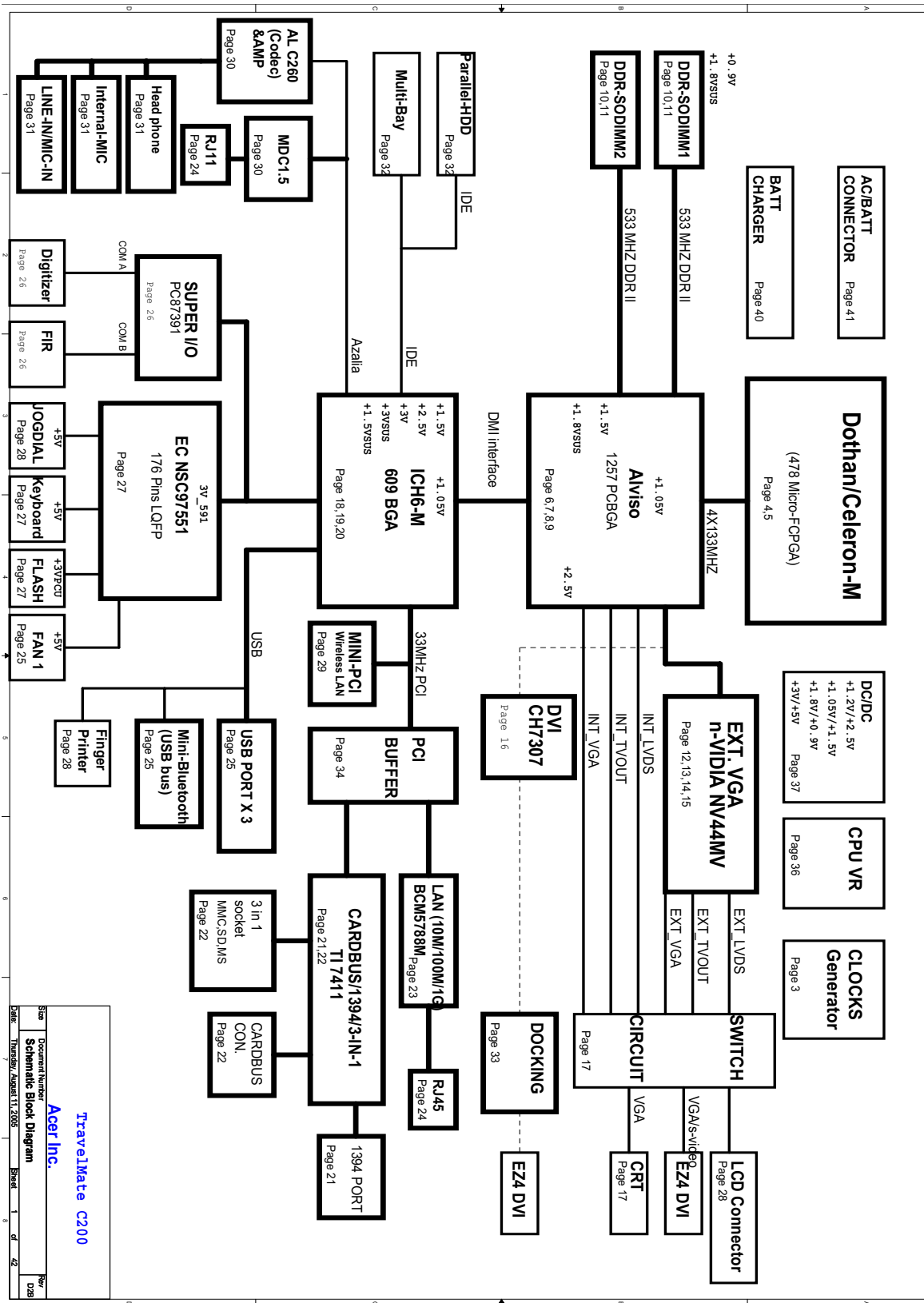
Audio

- ☐ Audio system with one built-in speaker and microphone
- ☐ Sound Blaster Pro™ and MS-Sound compatible

I/O interface

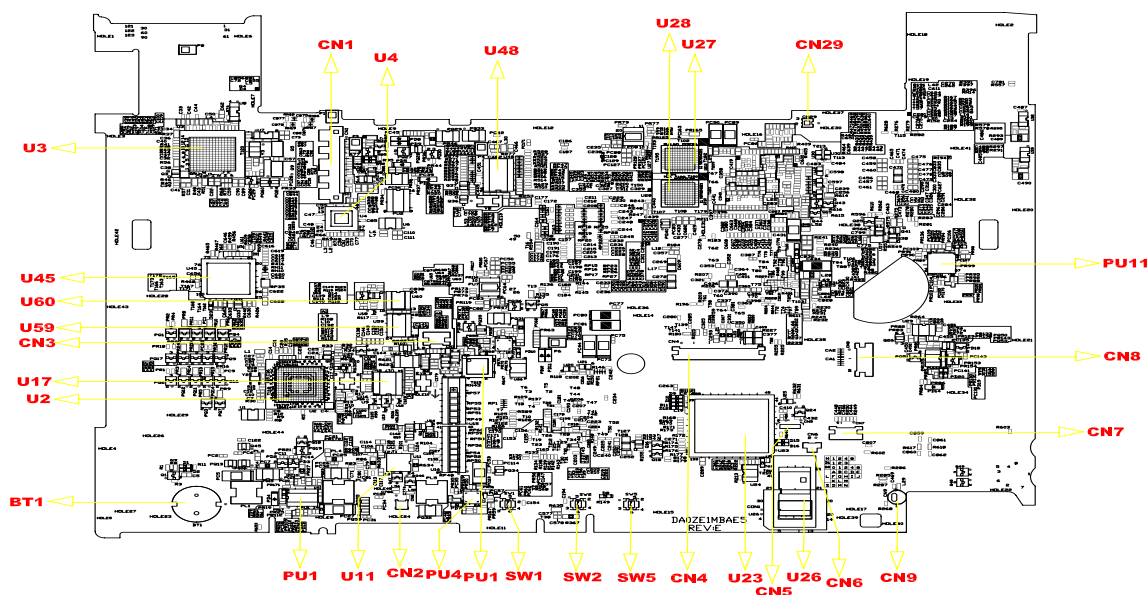
- ☐ 124-pin Acer ezDock connector
- ☐ Three USB 2.0 ports
- ☐ 4-in-1 card reader (MS/MS PRO/MMC/SD)
- ☐ PC Card slot (Type II)
- ☐ IEEE 1394 port
- ☐ Fast infrared (FIR) port
- ☐ External display (VGA) port
- ☐ Ethernet (RJ-45) port
- ☐ Modem (RJ-11) port
- ☐ Microphone/line-in jack
- ☐ Headphones/speaker/line-out jack
- ☐ DC-in jack for AC adapter

System Block Diagram



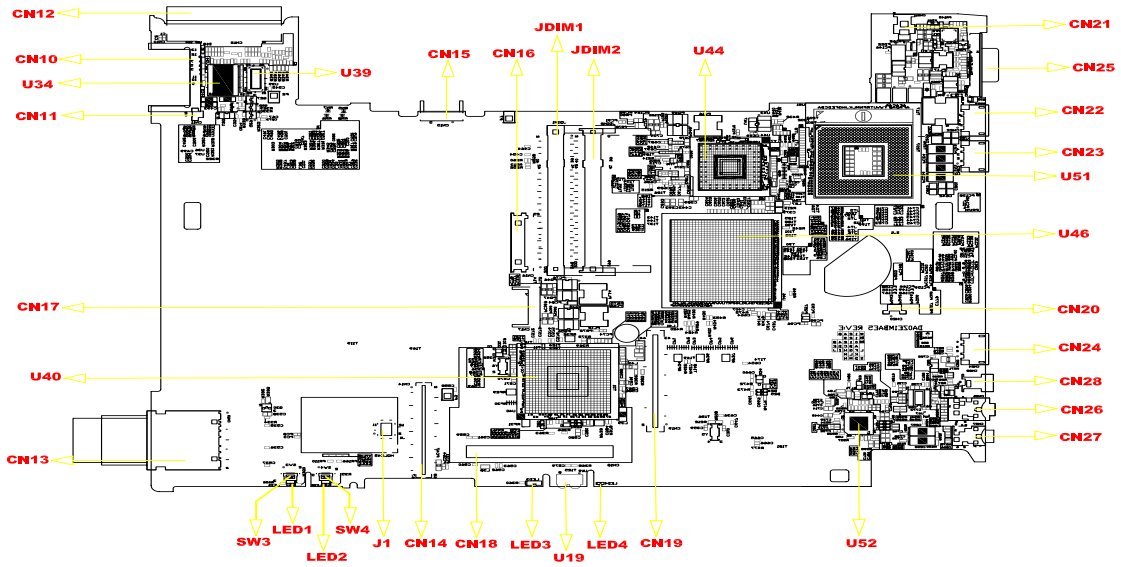
Board Layout

Top View



| | | | |
|------|-----------------------|-----|-----------------------|
| CN1 | LCD connector | SW2 | Touchpad Switch |
| U4 | DVI Transfer IC | SW1 | Touchpad Switch |
| U48 | Clock Generator IC | PU1 | System PWR IC |
| U28 | Video RAM | PU4 | Speaker Connector |
| U27 | Video RAM | U11 | CardBus PWR IC |
| CN29 | Lid-Switch | PU1 | System PWR IC |
| PU11 | CPU PWR IC | BT1 | RTC Battery Connector |
| CN8 | Quick Board Connector | U2 | CardBus IC |
| CN7 | Jogdial Connector | U17 | Track Point IC |
| CN9 | Microphone Connector | CN3 | Track Point Connector |
| CN6 | Pen-Sensor | U59 | ODD Switch IC |
| U26 | BIOS | U60 | ODD Switch IC |
| CN5 | Bluetooth Connector | U45 | Super I/O IC |
| U23 | Keyboard Control IC | U3 | GigaLAN IC |
| CN4 | Keyboard Connector | | |
| SW5 | Power-On Switch | | |

Bottom View



| | | | |
|-------|--------------------|------|-------------------------------|
| CN15 | Battery Connector | LED4 | HDD LED (Green) |
| CN16 | ODD Connector | U19 | FIR |
| JDIM1 | 9.2H DDR2 | LED3 | Power LED (Green/Amber) |
| JDIM2 | 5.2H DDR2 | CN18 | Mini PCI Connector |
| U44 | Graphic Chip | CN14 | PCMCIA Slot (Main Board Side) |
| CN21 | DC-in Jack | J1 | MDC Connector |
| CN25 | CRT | SW4 | Wireless Switch |
| CN22 | USB Port | LED2 | Wireless LED (Amber) |
| CN23 | USB Port | LED1 | Bluetooth LED (Blue) |
| U51 | CPU Socket | SW3 | Bluetooth Switch |
| U46 | North Bridge | CN13 | 3-in-1 Card Reader Slot |
| CN20 | FAN Connector | U40 | South Bridge |
| CN24 | USB Port | CN17 | 2nd-Battery Connector |
| CN28 | 1394 Connector | CN11 | Modem |
| CN26 | Audio Jack (Blue) | U34 | LAN Transfermer |
| CN27 | Audio Jack (Green) | CN10 | RJ45-RJ11 |
| U52 | Audio Codec | CN12 | Docking Port |
| CN19 | HDD Connector | U39 | LAN Switch IC |

A TravelMate Tour

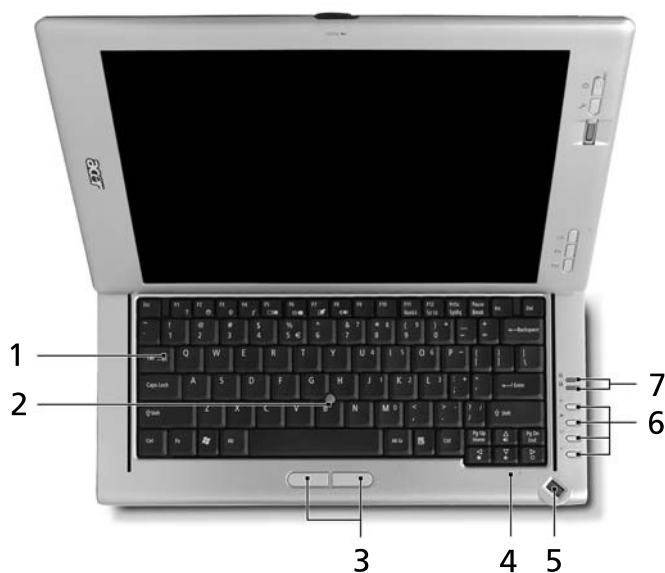
Now let us show you around the new TravelMate computer.

Top View



| # | Item | Description |
|---|------------------------------|--|
| 1 | Display screen | Also called LCD (liquid-crystal display), displays computer output. Electromagnetic resonate (EMR) stylus is used to input data in tablet mode. Use only an EMR-compatible stylus to input data on the screen. |
| 2 | Tablet-mode button | Escape button for use in tablet PC mode. |
| 3 | Tablet-mode button | Function button for use in tablet PC mode. |
| 4 | Tablet-mode button | Screen rotate button for use in tablet PC mode. |
| 5 | Biometric fingerprint reader | Provides fingerprint-verified access to operating system applications. |
| 6 | Windows Security lock button | A tablet-mode button, it functions like CLT-ALT-DEL to lock the access to the operating system. |
| 7 | Power switch | Turns the computer on and off. |






Open front view



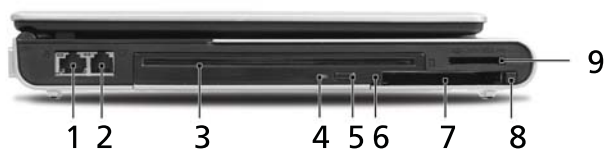
| # | Item | Description |
|---|--------------------------------|--|
| 1 | Keyboard | For entering data in notebook PC mode. |
| 2 | Built-in trackpoint | Touch-sensitive pointing device which functions like a computer mouse when used together with the click buttons. |
| 3 | Click buttons (left and right) | Function like the left and right mouse buttons when used together with the center-keyboard trackpoint. |
| 4 | Built-in microphone | Internal microphone for sound recording. |
| 5 | Scroll wheel | For up, down and one-touch accelerated scrolling. |
| 6 | Easy-launch buttons | Buttons for launching frequently used programs. |
| 7 | Indicator lights | Light up when Caps Lock or Num Lock are activated. |








Closed front view



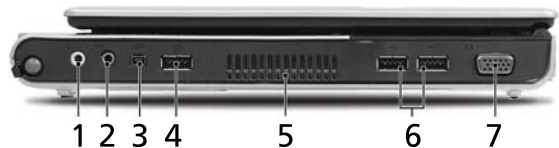
| # | Icon | Item | Description |
|---|---|---|--|
| 1 |  | Wireless communication button/indicator | Press to enable/disable the wireless function. Lights to indicated the status of wireless LAN communication. |
| 2 |  | Bluetooth communication button/indicator | Press to enable/disable Bluetooth functions. Lights to indicated the status of Bluetooth communications. |
| 3 | | Speaker | Provides sound. |
| 4 |  | Battery indicator | Lights up when battery is being charged. |
| 5 |  | Fast infrared (FIR) port | Interfaces with infrared printers, computers and other FIR-aware devices. |
| 6 |  | HDD indicator | Indicates when the hard disk drive is active. |
| 7 | | Electromagnetic resonance (EMR) pen with eraser | For entering data in tablet PC mode. |







Left view



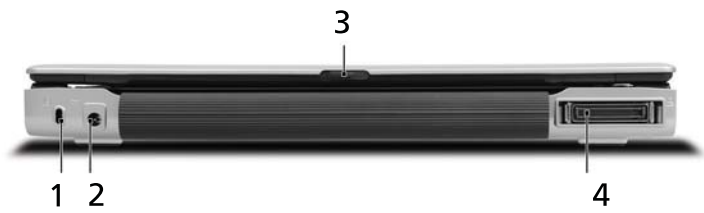
| # | Icon | Item | Description |
|---|--|----------------------------|---|
| 1 |  | Ethernet (RJ-45) port | Connects to a gigabit Ethernet network. |
| 2 |  | Modem (RJ-11) port | Connects to a phone line. |
| 3 | | Optical drive | Accepts recordable DVDs and CDs, depending on the drive type. |
| 4 | | LED indicator | Lights up when the optical drive is active. |
| 5 | | Optical drive eject button | Ejects the optical drive tray. |
| 6 | | Emergency eject hole | Ejects the optical drive tray when the computer is turned off. Lights up when computer is off. |
| 7 |  | PC Card slot | Accepts one Type II PC Card. |
| 8 | | PC Card slot eject button | Eject the PC Card from the slot. |
| 9 |  PRO    | 4-in-1 card reader | Accepts Memory Stick, Memory Stick Pro, MultiMediaCard (MMC), Secure Digital (SD). Note: Only one card can operate at any given time. |




Right view



| # | Icon | Item | Description |
|---|---|----------------------------------|---|
| 1 |  | Headphone/speakers line-out jack | Connects to audio line-out devices. |
| 2 |  | Microphone/line-in jack | Accepts audio line-in devices (e.g. microphone or audio CD player). |
| 3 |  | IEEE 1394 port | Connects to IEEE 1394 devices. |
| 4 |  | USB 2.0 port | Connects to USB 2.0 devices (e.g. USB mouse or camera). |
| 5 | | Ventilation slots | Keep computer cool during use. |
| 6 |  | USB 2.0 port | Connects to USB 2.0 devices (e.g. USB mouse or camera). |
| 7 |  | External display (VGA) port | Connects to a display device (e.g. monitor or projector). |

Rear view



| # | Icon | Item | Description |
|---|---|----------------------|---|
| 1 |  | Kensington lock slot | Connects to a Kensington-compatible computer security lock. |
| 2 |  | DC-in jack | Connects to an AC adapter. |
| 3 | | Latch | Locks and release the LCD unit to convert from tablet to notebook mode. |
| 4 |  | Acer ezDock port | Connects to an Acer ezDock (optional). |

Base view









| # | Item | Description |
|---|-----------------------------|--|
| 1 | Battery bay | Houses the computer's battery pack. |
| 2 | Battery lock latch | Locks the battery in place. |
| 3 | Memory compartment | Houses the computer's main memory (secured with two screws). |
| 4 | Cooling fan | Cools computer during use. Note: Do not cover or obstruct the opening of the fan. |
| 5 | Hard disk bay | Houses the computer's hard disk (secured with two screws). |
| 6 | Optical drive | Internal optical drive (hot -swappable Acer MediaBay drive moudel is optional). |
| 7 | Optical drive release latch | Release the optical drive module fo removal. |
| 8 | Battery lock latch | Locks the battery in place. |

Indicators

The computer has two easy-to-read status indicators to the right of the keyboard, and four on the front panel.



The power, media, Bluetooth and wireless communication status indicators are visible even when the LCD display is closed.


| Icon | Function | Description |
|---|----------------|---|
|  | Caps Lock | Lights up when Caps Lock is activated. |
|  | Num Lock | Lights up when Num Lock is activated. |
|  | Media activity | Indicates when the hard disk or optical drive is active. |
|  | Bluetooth | Indicates the status of Bluetooth communication. |
|  | Wireless LAN | Indicates the status of wireless LAN communication. |
|  | Power | Lights up when the computer is on. 1. Charging: The lights shows amber when the battery is charging. 2. Fully charged: The light shows green when in AC mode. |

Easy-launch buttons

Located to the right of the keyboard are four buttons. These buttons are called easy-launch buttons. They are: mail, Web browser, Acer Empowering Key < *e* > and one user-programmable button.

Press < *e* > to run the Acer Empowering Technology. The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable buttons, run the Acer Launch Manager.



| Easy-launch button | Default application |
|---|--|
| P | User-programmable |
| <i>e</i> | Acer Empowering Technology (user-programmable) |
|  | Internet browser (user-programmable) |
| Mail | Email application (user-programmable) |

Trackpoint and click buttons

The built-in trackpoint is a pointing device that senses movement on its surface. This means the cursor responds as you use your finger to move the trackpoint. Its central location on the move your finger on the surface of the touchpad. The central location on the palmrest provides optimal comfort and support.



NOTE: If you are using an external USB mouse, you can press **Fn-F7** to disable the touchpad.

Trackpoint basics

The following items show you how to use the trackpoint and click buttons:

- ☐ Using your finger, apply light, steady pressure on the trackpoint (1) to move the cursor.
- ☐ Press the left (2) and right (3) buttons located below the keyboard to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse.

Scrolling basics

The 3-way scroll wheel is enabled for tablet-and keyboard-mode use.

- ☐ Use the job wheel (4) to scroll up or down on a page. A click on the job wheel executes the Enter function, similar to clicking the left click button or the left button of a mouse.

| Function | Left Button | Right Button | Scroll Wheel |
|---------------------|---|--------------|--|
| Execute | Quickly click twice | | Click on the job wheel. |
| Select | Click once | | |
| Drag | Click and hold, then use finger on the trackpoint to drag the cursor. | | |
| Access context menu | | Click once | |
| Scroll | | | Use finger to roll scroll wheel lightly up or down in tablet or notebook mode. |

NOTE: When using these inputs, keep them - and your fingers - dry and and clean. The scroll wheel is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping harder will not increase click button responsiveness.

Using the keyboard

Lock keys and embedded numeric keypad

The keyboard has full-sized keys with an embedded numeric keypad, as well as separate lock, cursor and Windows keys, and hotkey controls.












| Lock Key | Description |
|-----------------------------|--|
| Caps Lock | When Caps Lock is on, all alphabetic characters typed are in uppercase. |
| Num Lock <Fn> + <F11> | When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. Another solution would be connect an external keypad. |
| Scroll Lock <Fn> + <F12> | When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications. |

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbol are not printed on the keys.

| Desired access | Num Lock on | Num Lock off |
|--|--|--|
| Number keys on embedded keypad | Type numbers in a normal manner. | |
| Cursor-control keys on embedded keypad | Hold <Shift> while using cursor-control keys. | Hold <Fn> while using cursor-control keys. |
| Main keyboard keys | Hold <Fn> while typing letters on embedded keypad. | Type the letters in a normal manner. |

Windows Keys

The keyboard has two keys that perform Windows-specific functions.


| Key | Icon | Description |
|-----------------|---|--|
| Windows key |  | Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provides a variety of functions:  + <Tab>: Activates the next taskbar button  + <E>: Opens the My Computer window.  + <F1>: Opens Help and Support Center.  + <F>: Opens the Search Results window.  + <R>: Opens the Run dialog box.  + <M>: Minimizes all windows. <Shift> +  + <M>: Undoes the minimize all windows action. |
| Application key |  | This key has the same effect as clicking the right mouse button; it opens the application's context menu. |











Hot Keys

The computer employs hotkeys or key combinations to access many computer controls, including screen brightness, volume output and the BIOS utility.

To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



| Hot Key | Icon | Function | Description |
|-------------|---|----------------|--|
| <Fn> + <F1> | ? | Hotkey help | Displays help on hotkeys. |
| <Fn> + <F2> |  | Acer eSettings | Launches Acer eSettings in Acer Empowering Technology. |

| Hot Key | Icon | Function | Description |
|-------------|---|--|--|
| <Fn> + <F3> |  | Acer ePower Management or Power management | Display the Power Options Properties used by the computer (function available if supported by operating system). See "Power management" on page 25. |
| <Fn> + <F4> |  | Sleep | Puts the computer in Sleep mode. See "Power management" on page 25. |
| <Fn> + <F5> |  | Display toggle | Switches display output between the display screen, external monitor (if connected) and both the display screen and external monitor. |
| <Fn> + <F6> |  | Screen blank | Turns the display screen backlight off to save power. Press any key to return. |
| <Fn> + <F7> |  | Touchpad toggle | Turns the internal touchpad on and off. |
| <Fn> + <F8> |  | Speaker toggle | Turns the speakers on and off. |
| <Fn>+< ↑ > |  | Volume up | Increases the speaker volume. |
| <Fn>+< ↓ > |  | Volume down | Decreases the speaker volume. |
| <Fn>+< → > |  | Brightness up | Increases the screen brightness. |
| <Fn>+< ← > |  | Brightness down | Decreases the screen brightness |

Special keys

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard.



The Euro symbol

1. Open a text editor or word processor.
2. Either press <€> at the bottom-right of the keyboard, or hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

NOTE: Some fonts and software do not support the Euro symbol. Please refer to www.microsoft.com/typography/faq/faq12.htm for more information.

3.

The US dollar sign

1. Open a text editor or word processor.
2. Either press <\$> at the bottom-right of the keyboard, or hold <shift> and then press the <4> key at the upper-center of the keyboard.

NOTE: This function varies according to the language settings.

Hardware Specifications and Configurations

Processor

| Item | Specification |
|------------------|--|
| CPU type | Intel® Pentium® M processor 725/730/740/750/760/770 (2MB L2 cache, 1.60/1.73/1.86/2/2.13 GHz, 533 MHz FSB) Intel® Celeron® M processor 350/360/370/380 (1MB L2 cache, 1.30/1.40/1.50/1.60 GHz, 400 Mhz FSB) |
| CPU package | Intel 479-ball Micro-FCBGA |
| CPU core voltage | 1.340V (highest frequency mode) to 0.988V (low frequency mode) |

BIOS

| Item | Specification |
|-----------------------|--|
| BIOS vendor | Phoenix |
| BIOS Version | V1.00 |
| BIOS ROM type | Flash ROM (SST SST39VF080) |
| BIOS ROM size | 1Mbytes |
| BIOS package | TSOP |
| Supported protocols | ACPI 1.0b, PC Card 95, SM BIOS 2.3, EPP/IEEE 1284, ECP/IEEE 1284 1.7 & 1.9, PCI 2.2, PnP 1.0a, DMI 2.0, PS/2 keyboard and mouse, USB 2.0, VGA BIOS, CD-ROM bootable, IEEE 1394 |
| BIOS password control | Set by setup manual |

Second Level Cache

| Item | Specification |
|-------------------------|--|
| Cache controller | Built-in CPU |
| Cache size | 2MB for Intel® Pentium® M processor 1MB for Intel® Celeron® M processor |
| 1st level cache control | Always enabled |
| 2nd level cache control | Always enabled |
| Cache scheme control | Fixed in write-back |

System Memory

| Item | Specification |
|---------------------------------|--|
| Memory controller | Intel 915GM/915PM/910GML+ ICH6-M |
| Memory size | 0MB (no on-board memory) |
| DIMM socket number | 2 sockets |
| Supports memory size per socket | 256MB, 512MB and 1024MB |
| Supports maximum memory size | 2048MB (by two 1024MB DDR RAM module) |
| Supports DIMM type | soSODIMM |
| Supports DIMM Speed | 400/533 MHz |
| Supports DIMM voltage | 1.8V and 0.9V |
| Supports DIMM package | 200-pin soDIMM |
| Memory module combinations | You can install memory modules in any combinations as long as they match the above specifications. |

Memory Combinations

| Slot 1 | Slot 2 | Total Memory |
|--------|--------|--------------|
| 0MB | 256MB | 256MB |
| 0MB | 512MB | 512MB |
| 0MB | 1024MB | 1024MB |
| 256MB | 0MB | 256MB |
| 256MB | 256MB | 512MB |
| 256MB | 512MB | 768MB |
| 256MB | 1024MB | 1280MB |
| 512MB | 0MB | 512MB |
| 512MB | 256MB | 768MB |
| 512MB | 512MB | 1024MB |
| 512MB | 1024MB | 1536MB |
| 1024MB | 0MB | 1024MB |
| 1024MB | 256MB | 1280MB |
| 1024MB | 512MB | 1536MB |
| 1024MB | 1024MB | 2048MB |

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

Modem Interface

| Item | Specification |
|---------------------------------|---------------|
| Data modem data baud rate (bps) | 56K |
| Supports modem protocol | V92 MDC |
| Modem connector type | RJ11 |
| Modem connector location | Right panel |

LAN Interface

| Item | Specification |
|------------------------|-------------------|
| Chipset | BroadCom BCM5788M |
| Supports LAN protocol | 10/100/1000 Mbps |
| LAN connector type | RJ45 |
| LAN connector location | Right panel |

Bluetooth-MODEM Interface

| Item | Specification |
|-----------------|---------------------------------------|
| Chipset | CSR BC02/Agere Scorpio solution |
| Data throughput | 200k bps (Blue-tooth)/56K bps (MODEM) |
| Protocol | Blue-tooth 1.1 |
| Interface | USB 1.1+MDC |
| Connector type | RJ11 (MODEM) |

Wireless Module 802.11b

| Item | Specification |
|---------|---------------|
| Chipset | Intel Claxico |

Wireless Module 802.11b

| Item | Specification |
|---------------------|-------------------|
| Data throughput | up to 11M bps |
| Protocol | 802.11b |
| Interface | Mini-PCI type II |
| Connector interface | 124-pin connector |

Four-in-One Card Reader

| Item | Specification |
|-----------------|--|
| Chipset | Intetrated on TI PC7411 |
| Data throughput | USB 1.1 |
| Protocol | Memory Stick (MS), MS PRO, MultiMediaCard, Secure Digital (SD) |

Hard Disk Drive Interface

| Item | Specification | | | |
|---|--|--|--|---|
| Vendor & Model Name | HGST IC25N030ATMR04 TOSHIBA MK3021GAS | HGST IC25N040ATMR04 TOSHIBA MK4021GAS | HGST IC25N060ATMR04 HGST TS548060M9AT00 TOSHIBA MK6021GAS | HGST IC25N080ATMR04 TOSHIBA MK8025GAS KA023A |
| Capacity (GB) | 30 | 40 | 60 | 80 |
| Bytes per sector | 512 | 512 | 512 | 512 |
| Data heads | 2 | 2/3 | 3/4 for Toshiba | 4 |
| Logical heads | 16 | 16 | 16 | 16 |
| Logical sectors | 63 | 63 | 63 | 63 |
| Drive Format | | | | |
| Disks | 1 | 1/2 | 2/3 for Toshiba | 2 |
| Logical cylinders | 16383 | 16383 | 16383 | 16383 |
| Spindle speed (RPM) | 4200 RPM | 4200 RPM | 4200 RPM/5400 RPM for HGST TS548060M9AT00 | 5400 RPM/4200 RPM for Toshiba |
| Performance Specifications | | | | |
| Buffer size | 2MB | 2MB | 8MB/2MB for Toshiba | 8MB |
| AT Interface | ATA/ATAPI-6 ATA-5 for Toshiba | ATA/ATAPI-6 ATA-5 for Toshiba | ATA/ATAPI-6 ATA-5 for Toshiba | ATA/ATAPI-6 |
| Data transfer rate (buffer to/ from media Mbytes/s) | 350 | 350 | 350/450 | 350 |
| Data transfer rate (host~buffer, Mbytes/s) | 100 MB/Sec. Ultra DMA mode-5 | 100 MB/Sec. Ultra DMA mode-5 | 100 MB/Sec. Ultra DMA mode-5 | 100 MB/Sec. Ultra DMA mode-5 |
| DC Power Requirements | | | | |
| Voltage tolerance | 5V(DC) +/- 5% | 5V(DC) +/- 5% | 5V(DC) +/- 5% | 5V(DC) +/- 5% |

DVD/CDRW Interface

| Item | Specification | |
|-----------------------------------|---|----------------------------------|
| Vendor & model name | DVD/CDRW COMBO MODULE QSI SBW-242 DVD/CDRW COMBO MODULE SONY CRX830E C | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (KB/sec) | Sustained: Max 3.6Mbytes/sec | Sustained: Max 10.8Mbytes/sec |
| Data Buffer Capacity | 128 KBytes | |
| Interface | IDE/ATAPI (ATA/ATAPI-5) | |
| Applicable disc format (for SONY) | DVD: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD+R, DVD-RW, DVD+RW, CD: CD Digital Audio and CD Extra, CD-ROM (mode 1), CD-ROM XA (Mode 2, Form 1 and Form 2) and CD-I Ready and CD-I Bridge, Photo CD, (Single and Multi session), Video CD, CD-TEXT, CD-R, CD-RW, CD Layer of Hybrid SACD | |
| Applicable disc format (for QSI) | DVD: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM (optional) CD: CD-DA, CD-ROM/XA, CD-i, Karaoke CD, Video CD, Multi-session Photo CD, Enhanced CD, itrax CD, CD extra, CD Plus, CD-Text, CD-R and CD-RW discs | |
| Loading mechanism | Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release | |
| Power Requirement | | |
| Input Voltage | 5 V +/- 5 % (Operating) | |

DVD-RW Interface

| Item | Specification | |
|---------------------------|---|----------------------------------|
| Vendor & model name | DVD-RW MODULE PIONEER DVR-K12D | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (KB/sec) | Sustained: Max 3.6Mbytes/sec | Sustained: Max 10.8Mbytes/sec |
| Data Buffer Capacity | 128 KBytes | |
| ATAPI Interface | SFF-8020i, SFF8090 Ver5 | |
| Applicable disc format | Supports KODAK Photo CD single and Multi-session Supports CD Extra (CD PLUS) Supports Mixed CD Supports Video CD Supports to read/write CD-R discs Supports to read/write CD-RW discs Supports CD text data read/write Supports to read DVD-ROM Supports to read/write DVD-R Ver. 2.00 for General Supports to read/write DVD-RW Ver.1.0 & 1.1 | |
| Loading mechanism | Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release | |
| Power Requirement | | |
| Input Voltage | 5 V +/- 5 % (Operating) | |

DVD Interface

| Item | Specification | |
|---------------------------|--|-----------------------------------|
| Vendor & model name | DVD-ROM MODULE MKE SR8177 | |
| Performance Specification | With CD Diskette | With DVD Diskette |
| Transfer rate (KB/sec) | Sustained: Max 3.6Mbytes/sec | Sustained: Max 11.08Mbytes/sec |
| Data Buffer Capacity | 256 KBytes | |
| ATAPI Interface | SFF8090 Ver 0.99 | |
| Applicable disc format | DVD: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R (3.95G/4.7G), DVD-RW, DVD-RAM (2.6G/4.7G) CD: CD-Audio, CD-ROM (mode 1 and mode 2), CD-ROM XA (mode 2, form 1 and form 2), CD-I (mode 2, form 1 and form 2), CD-I Ready, CD-I Bridge, CD-WO, CD-RW, Photo CD, Video CD, Enhanced Music CD (CD Plus), CD-TEXT | |
| Loading mechanism | Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release | |
| Power Requirement | | |
| Input Voltage | 5 V +/- 5 % (Operating) | |

Speaker

| Item | Specification |
|-------------------|--|
| Number of speaker | 1 |
| Rated input | 1W |
| Connector type | Headphone out, microphone in and line-in |

Video Interface

| Item | Specification |
|---------------------------------|--|
| Chipset | Intel 915GM (UMA) or Nvidia NV44M-V (NVIDIA® GeForce™ Go 6200) |
| Interface | PCI-E |
| Supports ZV (Zoomed Video) port | No |
| Maximum resolution LCD | 1600X1200 (UXGA) |
| Maximum resolution CRT | 2048X1536@75HZ |

Audio Interface

| Item | Specification |
|---------------------------|---|
| Audio Codec | Realtek ALC260 |
| Audio Amplifier | APA2030 |
| Audio onboard or optional | Built-in |
| Mono or Stereo | Stereo |
| Resolution | 20 bit stereo Digital to analog converter 18 bit stereo Analog to Ditial converter |
| Compatibility | HD audio interface |

Audio Interface

| Item | Specification |
|-----------------------------|--|
| Mixed sound source | Line-in, CD |
| Voice channel | 8/16-bit, mono/stereo |
| Sampling rate | 44,1 KHz (48K byte for AC97 interface) |
| Internal microphone | Yes |
| Internal speaker / Quantity | Yes/1 |
| Supports PnP IRQ | IRQ10 |

Video Resolutions Mode (for both LCD and CRT)

| Resolution | 16 bits (High color) | 32 bits (True color) |
|--------------------------------|-------------------------|-------------------------|
| 480x600 | Yes | Yes |
| 800x600 | Yes | Yes |
| 1024x768 | Yes | Yes |
| 1152x864 | Yes | Yes |
| 1280x1024 | Yes | Yes |
| 1400x1050 (SXGA+panel only) | Yes | Yes |

Video Memory

| Item | Specification |
|----------------------|---|
| Fixed or Upgradeable | Fixed for UMA Upgradeable for NVIDIA® NV44M-V (NVIDIA® GeForce™ Go 6200) |
| Vendor | Intel/NVIDIA® |
| Memory size | UMA: Default 32MB (Adjust via BIOS) NVIDIA: up to 128MB |
| Interface | PCI-E |

USB Port

| Item | Specification |
|------------------------------|------------------------------|
| Chipset | ICH6-M intergrated |
| USB Compliancy Level | 2.0 |
| EHCI | USB 2.0 |
| Number of USB port | 3 |
| Location | Right side |
| Serial port function control | Enable/Disable by BIOS Setup |

IEEE 1394 Port

| Item | Specification |
|-------------------------------|---------------|
| Chipset | TI 7411 |
| InterfaceUSB Compliancy Level | IEEE 1394 1.0 |
| Number of IEEE 1394 port | 1 |
| Location | Right side |

IEEE 1394 Port

| Item | Specification |
|----------------|---------------|
| Connector type | IEEE 1394 |

PCMCIA Port

| Item | Specification |
|---------------------------------|---------------|
| PCMCIA controller | TI PC7411 |
| Supports card type | Type-II |
| Number of slots | One type-II |
| Access location | Left panel |
| Supports ZV (Zoomed Video) port | No ZV support |
| Supports 32 bit CardBus | Yes (IRQ10) |

System Board Major Chips

| Item | Controller |
|-------------------------|---|
| Core logic | Intel 915GM/915PM/910GM (Sonoma-GM)+ ICH6-M |
| VGA | Intel 915GM/910GM (UMA) NVIDIA® NV44M-V (NVIDIA® GeForce™ Go 6200) |
| LAN | Broad Com 5788M |
| IEEE 1394 | TI PC7411 |
| USB 2.0 | ICH6-M intergrated |
| Super I/O controller | PC 87391 |
| MODEM | Intel Montara GM+ and ICH4-M |
| Blue tooth | CSR BC02/Agere Scorpio solution |
| Wireless 802.11 b | Intel Claxico |
| PCMCIA | TI PC7411 |
| Audio | Intel ICH6-M intergrated/Audio Codec: Realtek ALC260 |
| Four-in-one card reader | TI PC7411 |
| Trackpoint | ALPS 3DA3DT362A or Sentech SH1202 |

Keyboard

| Item | Specification |
|--|--|
| Keyboard controller | NS 87391 |
| Keyboard vendor & model name | DARFON |
| Total number of keypads | 84/85/88 |
| Windows logo key | Yes |
| Internal & external keyboard work simultaneously | No Note: Internal and external keyboard can not work simultaneously by software specification. |

Battery

| Item | Specification |
|---------------------|---------------|
| Vendor & model name | SANYO |
| Battery Type | Li-ion |
| Pack capacity | 4400 Ah |

Battery

| Item | Specification |
|------------------------|---|
| Cell voltage | 3.7V/cell |
| Number of battery cell | 8 |
| Package configuration | 4 cells in series, 2 series in parallel |
| Package voltage | 14.8V |

LCD

| Item | Specification |
|------------------------------------|---|
| Vendor & model name | AU B141XG08 CHIME N141X9-L01 |
| Mechanical Specifications | |
| LCD display area (diagonal, inch) | 14.1 |
| Display technology | TFT |
| Resolution | XGA (1024x768) |
| Supports colors | 262K |
| Optical Specification | |
| Brightness control | keyboard hotkey |
| Contrast control | No |
| Typical White Luminance | 200 (5 points average) 180 for CHIME |
| Contrast ratio | 300 (Min.), 500 (Typ.) for CHIME |
| | 250 (Min.), 300 (Typ.) for AU |
| Response time (msec) | TR: 6 (Typ.), 10 (Max.) TF: 17 (Typ.), 25 (Max.) for CHIME |
| | 25 (Typ.) for AU |
| Electrical Specification | |
| Supply voltage for LCD display (V) | 3.0 (Min.), 3.3 (Typ.), 3.6 (Max.) |

LCD Inverter

| Item | Specification |
|---------------------------------|---------------------|
| Vendor & model name | Ambit |
| Brightness conditions | Vadj=3.3V |
| Input voltage (V) | 7 (Min.), 14 (Max.) |
| Input current (A) | 0.6 (Min.) |
| Output voltage (V, rms) | 650 |
| Output current (mA, rms) | 5.5~6.5 |
| Output voltage frequency (k Hz) | 40~60 Hz |

AC Adaptor

| Item | Specification |
|--------------|--------------------------------|
| Model number | DELTA ADP-65DB 19V 65W (3 PIN) |

AC Adaptor

| Item | Specification |
|--------------|-----------------------|
| AC input | 90~264V, 47Hz to 63Hz |
| Output power | 65W, 19V@3.42V |

System Power Management

| ACPI mode | Power Management |
|---------------------|--|
| Mech. Off (G3) | All devices in the system are turned off completely. |
| Soft Off (G2/S5) | OS initiated shutdown. All devices in the system are turned off completely. |
| Working (G0/S0) | Individual devices such as the CPU and hard disk may be power managed in this state. |
| Suspend to RAM (S3) | CPU set power down VGA Suspend PCMCIA Suspend |

Memory Address Map

| Memory Address | Size | Function |
|----------------------|--------|---------------------|
| 00100000h-000F0000h | 512 KB | System BIOS |
| 000CFFFFh-000C0000h | | VGA BIOS |
| 00009FFFFh-00000000h | 640KB | Conventional memory |

I/O Address Map

| I/O Address | Function |
|---|--|
| 0000-001F, 0081-008F, 0090-0091, 0093-009F, 00C0-00DF, 040B, 04D6 | DMA controller |
| 0D00-FFFF | PCI bus |
| 0020-0021, 0024-0025, 0028-0029, 002C-002D, 0030-0031, 0034-0035, 0038-0039, 003C-003D, 00A0-00A1, 00A4-00A5, 00A8-00A9, 00AC-00AD, 00B0-00B1, 00B4-00B5, 00B8-00B9, 00BC-00BD, 00C0-00DF | Programmable interrupt controller |
| 0040-0043, 0050-0053 | System timer |
| 0060, 0064 | Acer Tablet PC Keyboard Buttons (101/102 key) |
| 002E-002F, 004E-004F, 0061, 0063, 0065, 0067, 0080, 0092, 00B2-00B3, 0200-020F, 0600-060F, 0700-070F, 0800-080F, 1000-107F, 1180-11BF, | Main board resources |
| 0066 | Microsoft ACPI-Compliant Embedded Controller |
| 0070-0077 | System CMOS/real time clock |
| 00F0 | Numeric data processor |
| 0170-0177, 0376 | Secondary IDE Channel |
| 01F0-01F7, 03F6 | Primary IDE Channel |
| 0274-0277, 0279, 0A79, | ISAPNP Read Data Port |
| 0378-037F, 0778-077B | Printer Port (LPT1) |
| 03B0-03BB, 03C0-03DF, 1800-1807, | Intel (R) 82852/82855 GM/GME Graphics Controller |
| 06F8-06FF | Wacom Serial Pen Tablet |
| 1810-181F | Intel (R) 82801DBM Ultra ATA Storage Controller-24CA |

I/O Address Map

| I/O Address | Function |
|--|--|
| 1820-183F | Intel (R) 82801DB/DBM USB Universal Host Controller-24C2 |
| 1840-185F | Intel (R) 82801DB/DBM USB Universal Host Controller-24C4 |
| 1860-187F | Intel (R) 82801DB/DBM USB Universal Host Controller-24C7 |
| 1880-189F | Intel (R) 82801DB/DBM SMBus Controller-24C3 |
| 18C0-18FF, 1C00-1CFF | Cystal WDM AC97 Driver for ICH4 |
| 2000-207F, 2400-24FF | Agere System AC97 Modem |
| FB00-FBFE | O2Micro SmartCardBus Reader |
| FC00-FCFF, FD00-FDFF, FE00-FEFF, FF00-FFFF | Generic Cardbus Controller |

IRQ Assignment Map

| Interrupt Channel | System timer |
|-------------------|---|
| IRQ00 | System time |
| IRQ01 | Keyboard |
| IRQ02 | Programmable Interrupt Controller |
| IRQ03 | FIR |
| IRQ04 | Communications Port (COM1) |
| IRQ05 | Free |
| IRQ06 | Wacom Serial Pen Tablet/Standard Floppy Disk Controller |
| IRQ07 | ECP Printer Port (LPT1)/O2Micro Smart CardBus Reader |
| IRQ08 | Real Time Clock |
| IRQ09 | SCI |
| IRQ10 | PCI Device (LAN, Audio, Modem...) |
| IRQ11 | USB 1.1, USB 2.0, VGA |
| IRQ12 | PS/2 Mouse |
| IRQ13 | Numeric data processor |
| IRQ14 | 1st EIDE device (hard disk) |
| IRQ15 | 2nd EIDE device (optical drive) |

DMA Channel Assignment

| Item | Specification |
|------|---------------------------------|
| 00 | PnP Audio System CODEC |
| 01 | Free |
| 02 | Standard Floppy Disk Controller |
| 03 | ECP Printer Port |

System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **F2** to enter setup. Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

Navigating the BIOS Utility

There are six menu options: Information, Main, Advanced, Security, Boot, and Exit.

Follow these instructions:

- ❑ To choose a menu, use the cursor left/right keys (← →).
- ❑ To choose a parameter, use the cursor up/down keys (↑ ↓).
- ❑ To change the value of a parameter, press F5 or F6.
- ❑ A plus sign (+) indicates the item has sub-items. Press ENTER to expand this item.
- ❑ Press ESC while you are in any of the menu options to go to the Exit menu.
- ❑ In any menu, you can load default settings by pressing F9. You can also press F10 to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values.

This menu provides you the information of the system.

Information

| Parameter | Description |
|-----------------|--|
| IDE1 Model Name | Shows the Model name of HDD installed on Primary IDE master. The hard disk model name is automatically detected by the system. If there is no hard disk present or unknown type, " None " should be shown on this field. |
| IDE1 Serial # | This field display the Serial number of HDD installed on Primary IDE master. If no Hard disk or other devices are installed on Primary IDE master, then it will display a blank line. |
| IDE2 Model Name | This item will show the Model name of device installed on Secondary IDE master. The hard disk or CD-ROM model name is automatically detected by the system. If there is no hard disk or CD-ROM present or unknown type, " None " should be shown on this field. |
| IDE2 Serial # | This item will show the Serial number of HDD installed on Secondary IDE master. If no hard disk or other devices are installed on Primary IDE master, then it will display a blank line. |
| Serial Number | This field displays the serial number of this unit. |
| UUID Number | UUID=32bytes |

Main

The Main screen displays a summary of your computer hardware information, and also includes basic setup parameters. It allows the user to specify standard IBM PC AT system parameters.

NOTE: The screen above is for reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Format/Option |
|---|---|---|
| System Time | Sets the system time. | Format: HH:MM:SS (hour:minute:second) System Time |
| System Date | Sets the system date. | Format MM/DD/YYYY (month/day/ year) System Date |
| System Memory | This field reports the memory size of the system. Memory size is fixed to 640MB | |
| Extended Memory | This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB | |
| VGA Memory | Shows the VGA memory size. The default value is set to 8MB. Note: 8MB is VGA memory size under DOS mode. Dynamic video memory allocation up to 64MB in Windows mode. | |
| Quiet Boot | Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled. | Option: Enabled or Disabled |
| Power on display | Auto: During power process, the system will detect if any display device is connected on external video port. If any external display device is connected, the power on display will be in CRT (or projector) only mode. Otherwise it will be in LCD only mode. Both: Simultaneously enable both the integrated LCD screen and the system's external video port (for an external CRT or projector). | Option: Auto or Both |
| LCD Auto Dim | Determines if the system will automatically dim the LCD brightness in order to save power when AC is not present. | Option: Enabled or Disabled |
| PXE (Preboot Execution Environment) Boot From LAN | Indicates that whether the notebook can boot from LAN or not. | Option: Enabled or Disabled |
| F12 Boot Menu | Determines if the OEM POST screen will have "Press <F12> Change Boot Device" or not during user's quite boot. | Option: Enabled or Disabled |

NOTE: The sub-items under each device will not be shown if the device control is set to disable or auto. This is because the user is not allowed to control the settings in these cases.

Advanced

The Advanced menu screen contains parameters involving your hardware devices. It also provides advanced settings of the system.

PhoenixBIOS Setup Utility

InformationMainAdvancedSecurityBootExit

Infrared/Serial port: :[Disabled]

Item Specific Help

F1 Help

↑ ↓ Select Item

F5/F6 Change Values

F9 Setup Defaults

Esc Exit

← → Select Menu

Enter Select ▶ Sub-Menu

F10 Save and Exit

The table below describes the parameters in the screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Options |
|----------------------|---|--------------------------|
| Infrared/Serial port | Enables, disables the infrared/serial port. | Enabled /Disabled |

Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.

| PhoenixBIOS Setup Utility | | | | | |
|--|------|----------|----------|--|------|
| Information | Main | Advanced | Security | Boot | Exit |
| <div>User Password is<div>Clear</div></div> <div>Supervisor Password is<div>Clear</div></div> <div>Set User Password<div>[Enter]</div></div> <div>Set Supervisor Password<div>[Enter]</div></div> <div>Password on boot:<div>[Enabled]</div></div> | | | | Item Specific Help | |
| | | | | <div>Supervisor Password controls accesses of the whole setup utility. It can be used to boot up when Password on boot is enabled.</div> | |
| <div>F1 Help<div>↑ ↓ Select Item</div></div> <div>Esc Exit<div>← → Select Menu</div></div> <div>F5/F6 Change Values<div>Enter Select<div>▶ Sub-Menu</div></div></div> <div>F9 Setup Defaults<div>F10 Save and Exit</div></div> | | | | | |




The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter | Description | Option |
|-------------------------|--|----------------------------|
| User Password is | Shows the setting of the uer password. | Clear or Set |
| Supervisor Password is | Shows the setting of the Supervisor password | Clear or Set |
| Set User Password | Press Enter to set the user password. When set, this password protects the BIOS Setup Utility from unauthorized access. | |
| Set Supervisor Password | Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. | |
| Password on Boot | Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup. | Disabled or Enabled |

NOTE: When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

Setting a Password



Follow these steps as you set the user or the supervisor password:

1. Use the  and  keys to highlight the Set Supervisor Password parameter and press the  key. The Set Supervisor Password box appears:

| Set Supervisor Password | |
|-------------------------|-----|
| Enter New Password | [] |
| Confirm New Password | [] |




2. Type a password in the “Enter New Password” field. The password length can not exceeds 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the “Confirm New Password” field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.




3. Press .
After setting the password, the computer sets the User Password parameter to “Set”.
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press  to save the changes and exit the BIOS Setup Utility.

Removing a Password




Follow these steps:

1. Use the  and  keys to highlight the Set Supervisor Password parameter and press the  key. The Set Password box appears:

| Set Supervisor Password | |
|-------------------------|-----|
| Enter current password | [] |
| Enter New Password | [] |
| Confirm New Password | [] |

2. Type the current password in the Enter Current Password field and press .
3. Press  twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. When you have changed the settings, press  to save the changes and exit the BIOS Setup Utility.

Changing a Password

1. Use the  and  keys to highlight the Set Supervisor Password parameter and press the  key. The Set Password box appears:

| | | |
|-------------------------|---|---|
| Set Supervisor Password | | |
| Enter current password | [|] |
| Enter New Password | [|] |
| Confirm New Password | [|] |

2. Type the current password in the Enter Current Password field and press **ENTER**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **ENTER**. After setting the password, the computer sets the User Password parameter to "Set".
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press **F10** to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

| |
|--------------------------|
| Setup Notice |
| Changes have been saved. |
| [continue] |

The password setting is complete after the user presses **F10**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

| |
|-------------------|
| Setup Warning |
| Invalid password |
| Re-enter Password |
| [continue] |

If the new password and confirm new password strings do not match, the screen will display the following message.

| |
|-----------------------|
| Setup Warning |
| Password do not match |
| Re-enter Password |

Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the distette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.

| PhoenixBIOS Setup Utility | | | | | |
|---|----------------|-------------------------|-------------------|--|------|
| Information | Main | Advanced | Security | Boot | Exit |
| <div>Hard Drive</div> <div>Removable Device</div> <div>CD-ROM Drive</div> | | | | Item Specific Help | |
| | | | | <div>Keys used to view or configure devices: <Enter> expnads or Collapses Devices with a + or -</div> <div><Ctrl+Enter> expnads all</div> <div><Shift + 1> enables or disables a device.</div> <div><+> and <-> moves the device up or down.</div> <div><n> May move removable device between Hard Disk or Removable Disk.</div> <div><d> Remove a device that is not installed.</div> | |
| F1 Help | ↑↓ Select Item | F5/F6 Change Values | F9 Setup Defaults | | |
| Esc Exit | ←→ Select Menu | Enter Select ▶ Sub-Menu | F10 Save and Exit | | |

Exit

The Exit screen contains parameters that help safeguard and protect your computer from unauthorized use.

PhoenixBIOS Setup Utility

InformationMainAdvancedSecurityBootExit

Exit Saving Changes

Exit Discarding Changes

Load Setup Defaults

Discard Changes

Save Changes

Item Specific Help

Exit System Setup and save your changes to CMOS.

F1 Help

↑↓ Select Item

F5/F6 Change Values

F9 Setup Defaults

Esc Exit

←→ Select Menu

Enter Select ▶ Sub-Menu

F10 Save and Exit

The table below describes the parameters in this screen.

| Parameter | Description |
|-------------------------|---|
| Exit Saving Changes | Exit System Setup and save your changes to CMOS. |
| Exit Discarding Changes | Exit utility without saving setup data to CMOS. |
| Load Setup Default | Load default values for all SETUP item. |
| Discard Changes | Load previous values from CMOS for all SETUP items. |
| Save Changes | Save Setup Data to CMOS. |

BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- ☐ New versions of system programs
- ☐ New features or options
- ☐ Restore a BIOS when it becomes corrupted.

Use the Phlash utility to update the system BIOS flash ROM.

NOTE: If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Phlash utility.

NOTE: Do not install memory-related drivers (XMS, EMS, DPML) when you use the Phlash.

NOTE: Please use the AC adaptor power supply when you run the Phlash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

Follow the steps below to run the Phlash.

1. Prepare a bootable diskette.
2. Copy the Phlash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The Phlash utility has auto-execution function.

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

To disassemble the computer, you need the following tools:

- ☐ Wrist grounding strap and conductive mat for preventing electrostatic discharge
- ☐ Philips screw drivers
- ☐ Flat head screwdriver

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the middle cover, please be careful not to scrape the cover.

General Information

Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

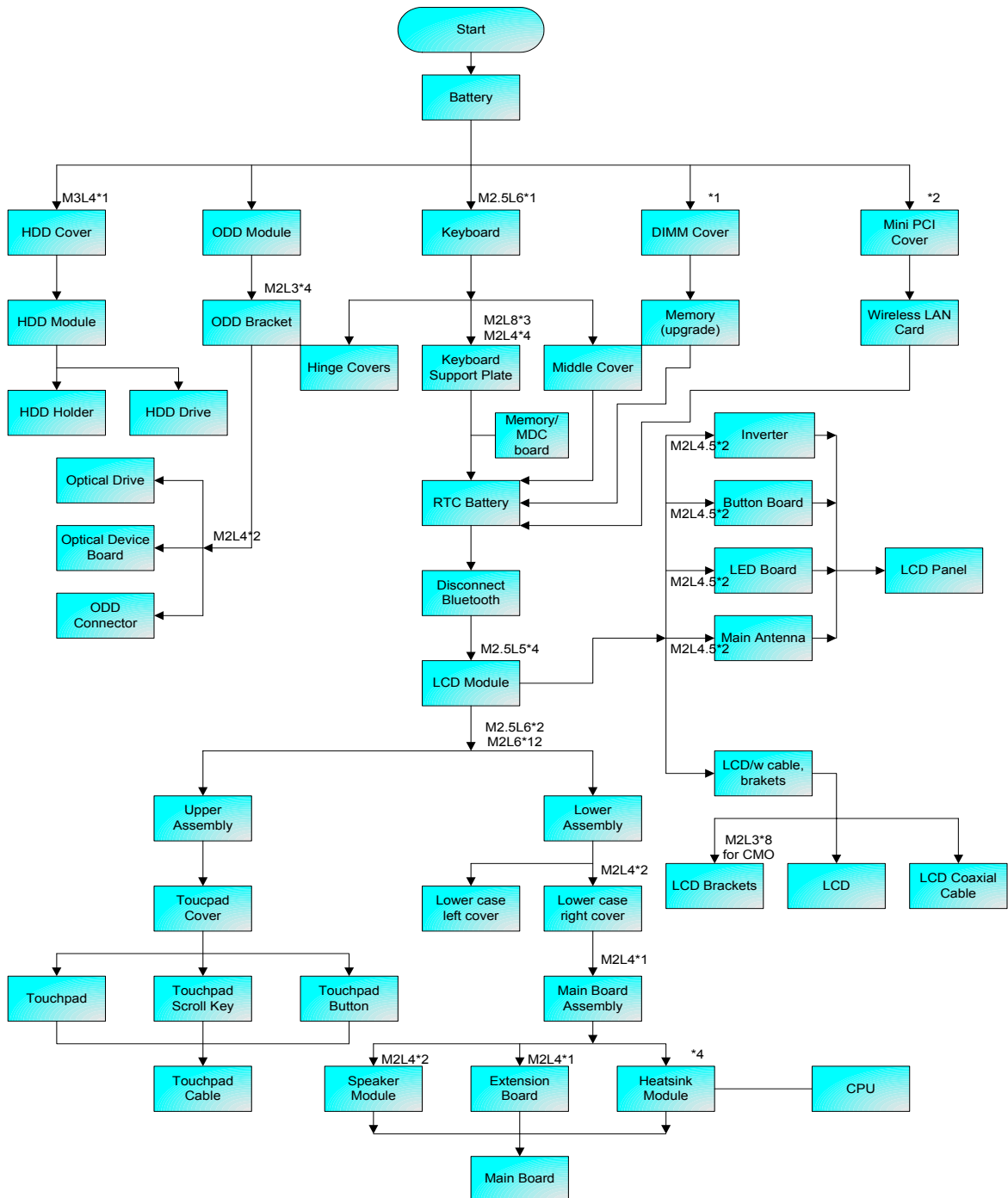
1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.
3. Remove the battery pack.

NOTE: TravelMate C200 series product uses tape to fasten the antenna/cable, you may need to tear the tape before you remove the antenna.

NOTE: The disassembly is based on an engineering sample, therefore, the number of the screws and the color of the system may differ from a finish-good unit.

Disassembly Procedure Flowchart

The flowchart on the succeeding page gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the system board, you must first remove the then disassemble the inside assembly frame in that order.



Removing the Battery Pack

1. Release the battery lock.
2. Slide the battery latch then remove the battery.



Removing the HDD Module/ODD Module/Memory/Wireless LAN Card/LCD Module and the Keyboard

Removing the Hard Disk Drive Module

1. Remove the two screws fastening the HDD cover.
2. Detach the HDD cover from the notebook.
3. Pull out the hard disk drive then detach it from the main unit.



Removing the Optical Disk Drive Module

1. Slide the ODD latch then remove the ODD module from the main unit carefully.



Removing the Memory

1. Remove the two screws that fasten the DIMM door.
2. Detach the DIMM door.
3. Pop out the memory then remove it.



Removing the Wireless LAN Card

1. Remove the two screws holding the wireless LAN cover.
2. Detach the wireless cover.



3. Disconnect wireless main and auxiliary antenna.
4. Pop out the wireless LAN card then remove it.



Removing the LCD Module

1. Remove two screws holding the left and the right hinge cover.
2. Remove the right hinge cover.



3. Remove the left hinge cover.
4. Turn over the entire LCD module as shown.
5. Disconnect the six screws fastening the middle cover.



6. Detach the middle cover carefully.
7. Then disconnect the LCD cable.



8. Disconnect the wireless LAN antenna.
9. Remove the four screws fastening the LCD module to the main unit.
10. Detach the LCD module from the main unit.



Removing the Keyboard

1. Remove the screw fastening the keyboard on the bottom.
2. Disconnect the trackpoint cable.
3. Disconnect the keyboard cable then remove the keyobar.



Disassembling the Main Unit

Separating the Main Unit into the Upper Case And the Lower Case Assembly

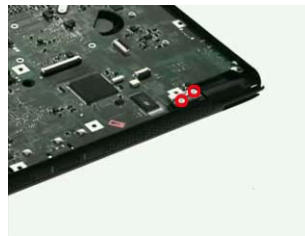
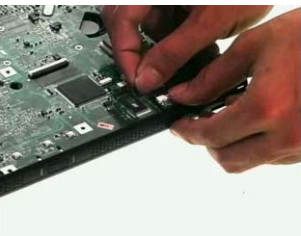
1. Remove the 11 screws fastening the upper case and the lower case assembly.
2. Then remove the 10 screws holding the upper case and the lower case assembly on bottom side.
3. Disconnect the launch board FFC.



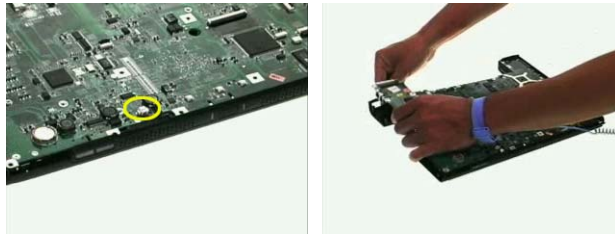
4. Disconnect the joystick board FFC as shown.
5. Disconnect the bluetooth cable from the main board as shown.
6. Tear off the capton fastening the wireless LAN antenna set then pull out the wireless LAN antenna set.



7. Detach the upper case assembly carefully.
8. Disconnect the dynamic board cable from the main board then remove it.
9. Remove the two screws fastening the dynamic board then detach the dynamic board from the main board.

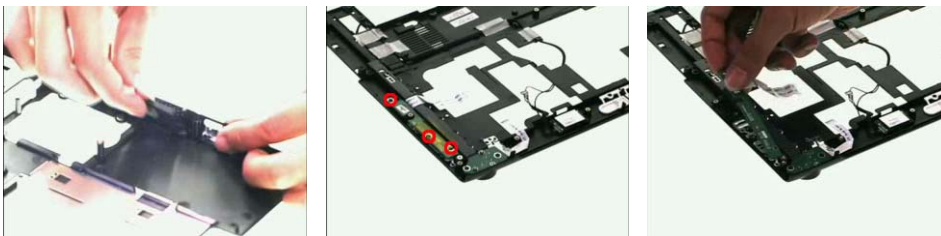


10. Disconnect the speaker cable from the main board.
11. Detach the main board assembly from the lower case carefully.



Disassembling the Upper Case, the Lower Case and the Main Board Assembly

1. Remove the speaker from the lower case.
2. Remove the three screws fastening the launch board.
3. Then detach the launch board from the lower case.



4. Disconnect the launch board FFC.
5. Remove the two screws fastening the joystick board.
6. Remove the joystick board assembly from the lower case.

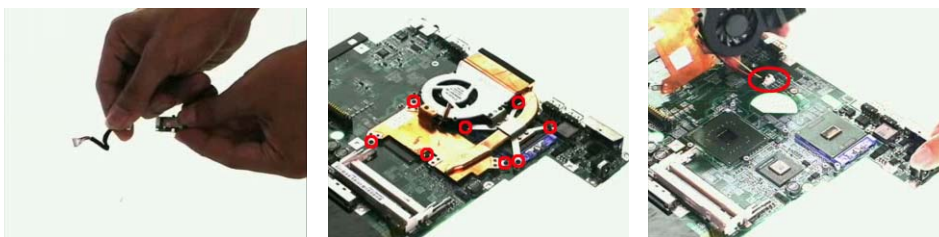


7. Disconnect the joystick board FFC.
8. Remove the two screws fastening the Bluetooth module.
9. Remove the Bluetooth module from the lower case carefully.



10. Disconnect the Bluetooth cable from the Bluetooth module.
11. Remove the eight screws fastening the thermal module.

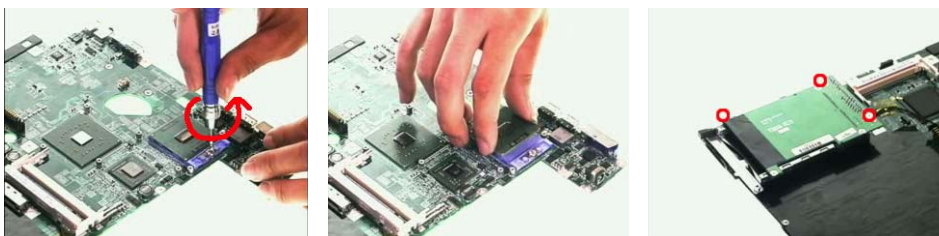
-
- 12.** Detach the thermal module from the main board and disconnect the fan cable then remove the thermal module.



- 13.** Use a flat-headed screwdriver to release the CPU lock.

- 14.** Remove the CPU from the socket carefully.

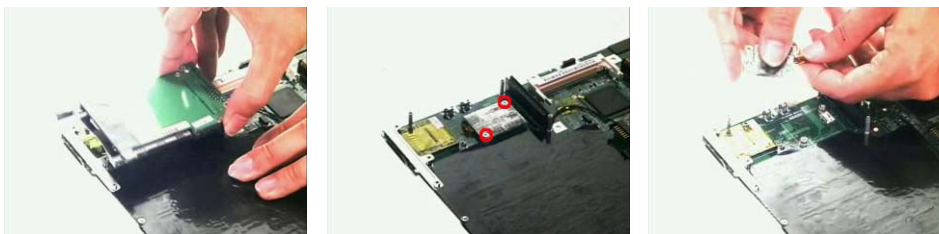
- 15.** Remove the three screws fastening the PCMCIA slot.



- 16.** Detach the PCMCIA slot from the main board.

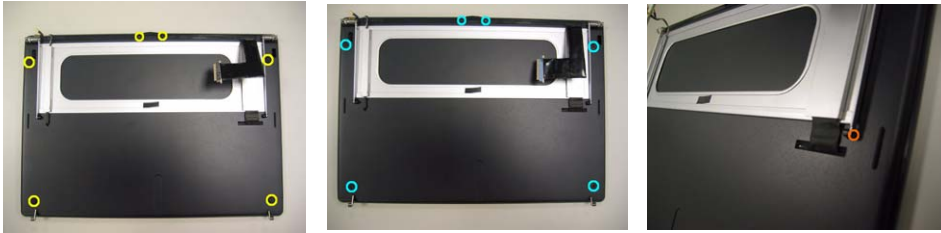
- 17.** Remove the two screws fastening the modem board.

- 18.** Disconnect the modem board from then main board and disconnect the modem board cable then remove the board.



Disassembling the LCD Module

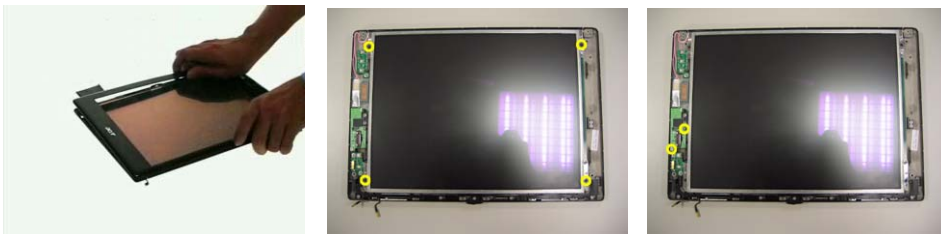
1. Remove the four LCD screw caps.
2. Then remove the six screws fastening the LCD bezel.
3. Remove one screw holding the LCD support on one side.



4. Remove another screw holding the LCD support on the other side as shown.
5. Open the cover as shown.
6. Open the other cover protecting antenna set as shown then remove the LCD support.



7. Detach the LCD bezel from the LCD module carefully.
8. Remove the four screws fastening the LCD assembly.
9. Remove the two screws fastening the finger board.



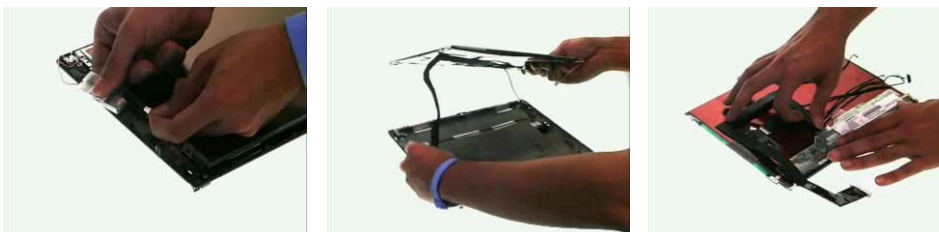
10. Turn over the finger board and disconnect the cable then remove the finger board.
11. Remove the two screws fastening the power board.
12. Lift the LCD as shown to take out the power board.



13. Turn over the power board and disconnect the cable then remove the board.
14. Remove the two screws fastening the launch board.
15. Disconnect the launch board cable then remove the launch board.



16. Disconnect the inverter cable then remove the inverter.
17. Take out LCD assembly from the LCD panel (The LCD support has been removed in step 3 to step 6).
18. Disconnect the LCD cable from the LCD then remove the cable.



19. Remove the three screws fastening the digitizer.
20. Then detach the digitizer as shown.



Disassembling the External Modules

Disassembling the HDD Module

1. Remove two screws fastening the HDD bracket on one side.
2. Remove another two screws holding the HDD bracket on another side.
3. Then remove the last screws fastening the HDD bracket.



4. Detach the HDD from the HDD bracket carefully.
5. Disconnect the HDD connector as shown.

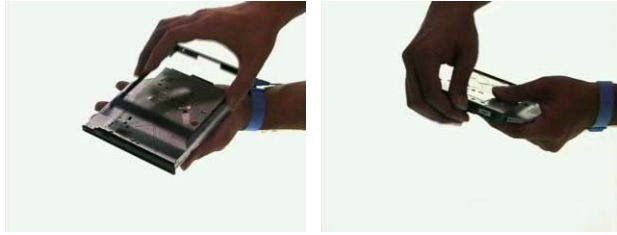


Disassembling the Optical Disc Drive Module

1. Remove two screws fastening the ODD holder on one side.
2. Remove another two screws holding the ODD holder on its rear side.
3. Then remove the last screws fastening the ODD holder.



4. Remove the ODD holder from the ODD.
5. Disconnect the ODD connector from the ODD.



Troubleshooting

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test this model. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. If any problem occurs, you can perform visual inspection before you follow this chapter's instructions. You can check the following:
 - power cords are properly connected and secured;
 - there are no obvious shorts or opens;
 - there are no obviously burned or heated components;
 - all components appear normal.
5. Use the following table with the verified symptom to determine which page to go to.

| Symptoms (Verified) | Go To |
|---|---|
| Power failure. (The power indicator does not go on or stay on.) | "Power System Check" on page 59. |
| POST does not complete. No beep or error codes are indicated. | "Power-On Self-Test (POST) Error Message" on page 61 "Undetermined Problems" on page 73 |
| POST detects an error and displayed messages on screen. | "Error Message List" on page 62 |
| Other symptoms (i.e. LCD display problems or others). | "Power-On Self-Test (POST) Error Message" on page 61 |
| Symptoms cannot be re-created (intermittent problems). | Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 61 "Intermittent Problems" on page 72 "Undetermined Problems" on page 73 |

System Check Procedures

External Diskette Drive Check

Do the following to isolate the problem to a controller, driver, or diskette. A write-enabled, diagnostic diskette is required.

NOTE: Make sure that the diskette does not have more than one label attached to it. Multiple labels can cause damage to the drive or cause the drive to fail.

Do the following to select the test device.

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if FDD Test is passed as the program runs to FDD Test.
3. Follow the instructions in the message window.

If an error occurs with the internal diskette drive, reconnect the diskette connector on the system board.

If the error still remains:

1. Reconnect the external diskette drive/DVD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

External CD-ROM Drive Check

Do the following to isolate the problem to a controller, drive, or CD-ROM. Make sure that the CD-ROM does not have any label attached to it. The label can cause damage to the drive or can cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if CD-ROM Test is passed when the program runs to CD-ROM Test.
3. Follow the instructions in the message window.

If an error occurs, reconnect the connector on the System board. If the error still remains:

1. Reconnect the external diskette drive/CD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

Keyboard or Auxiliary Input Device Check

Remove the external keyboard if the internal keyboard is to be tested.

If the internal keyboard does not work or an unexpected character appears, make sure that the flexible cable extending from the keyboard is correctly seated in the connector on the system board.

If the keyboard cable connection is correct, run the Keyboard Test.

If the tests detect a keyboard problem, do the following one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the keyboard cables.
2. Replace the keyboard.
3. Replace the main board.

The following auxiliary input devices are supported by this computer:

- ☐ Numeric keypad
- ☐ External keyboard

If any of these devices do not work, reconnect the cable connector and repeat the failing operation.

Memory check

Memory errors might stop system operations, show error messages on the screen, or hang the system.

1. Boot from the diagnostics diskette and start the doagmpstotics program (please refer to main board).
2. Go to the diagnostic memory in the test items.
3. Press F2 in the test items.
4. Follow the instructions in the message window.

NOTE: Make sure that the DIMM is fully installed into the connector. A loose connection can cause an error.

Power System Check

To verify the symptom of the problem, power on the computer using each of the following power sources:

1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

If you suspect a power problem, see the appropriate power supply check in the following list:

- ☐ "Check the Battery Pack" on page 60

Check the Battery Pack

To check the battery pack, do the following:

From Software:

1. Check out the Power Management in control Panel
2. In Power Meter, confirm that if the parameters shown in the screen for Current Power Source and Total Battery Power Remaining are correct.
3. Repeat the steps 1 and 2, for both battery and adapter.
4. This helps you identify first the problem is on recharging or discharging.

From Hardware:

1. Power off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1(+) and 6(ground). See the following figure
3. If the voltage is still less than 7.5 Vdc after recharging, replace the battery.

To check the battery charge operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

If the battery status indicator does not light up, remove the battery pack and let it return to room temperature. Re-install the battery pack.

If the charge indicator still does not light up, replace the battery pack. If the charge indicator still does not light up, replace the DC/DC charger board.

Touchpad check

If the touchpad doesn't work, do the following actions one at a time to correct the problem. Do not replace a non-defective FRU:

1. After rebooting, run Tracking Pad PS2 Mode Driver. For example, run Syn touch driver.
2. Run utility with the PS/2 mouse function and check if the mouse is working.
3. If the the PS/2 mouse does not work, then check if the main board to switch board FPC is connected O.K.
4. If the main board to switch board FPC is connected well, then check if the FCC on touch pad PCB connects properly.
5. If the FFC on touch pad PCB connects properly, then check if LS851 JP1 Pin6=5V are pulse. If yes, then replace switch board. If no, then go to next step.
6. Replace touch pad PCB.
7. If the touch pad still does not work, then replace FPC on Track Pad PCB.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement can occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No service actions are necessary if the pointer movement stops in a short period of time.

Power-On Self-Test (POST) Error Message

The POST error message index lists the error message and their possible causes. The most likely cause is listed first.

NOTE: Perform the FRU replacement or actions in the sequence shown in FRU/Action column, if the FRU replacement does not solve the problem, put the original part back in the computer. Do not replace a non-defective FRU.

This index can also help you determine the next possible FRU to be replaced when servicing a computer.

If the symptom is not listed, see “Undetermined Problems” on page 73.

The following lists the error messages that the BIOS displays on the screen and the error symptoms classified by function.

NOTE: Most of the error messages occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured.

NOTE: If the system fails after you make changes in the BIOS Setup Utility menus, reset the computer, enter Setup and install Setup defaults or correct the error.

Index of Error Messages

Error Message List

| Error Messages | FRU/Action in Sequence |
|---|---|
| Struck Key | See “Keyboard or Auxiliary Input Device Check” on page 58 |
| System CMOS checksum bad - Default configuration used | RTC battery Run BIOS Setup Utility to reconfigure system, then reboot system. |
| Real time clock error | RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. Main board |
| Previous boot incomplete - Default configuration used | “Load Default Settings” in BIOS Setup Utility. RTC batter Main board. |
| Invalid System Configuration Data | “Load Default Settings” in BIOS Setup Utility. Main board. |
| Operating system not found | Enter Setup and see if fixed disk and drive A are properly identified. Dikette drive Hard disk drive Main board. |

Error Message List

| No beep Error Messages | FRU/Action in Sequence |
|---|--|
| Power-on indicator turns off and LCD is blank. | Power source (battery pack and power adapter.) See "Power System Check" on page 59 Ensure every connector is connected tightly and correctly. Reconnect the DIMM. Main board. |
| Power-on indicator turns on and LCD is blank. | Power source (battery pack and power adapter.) See "Power System Check" on page 59 Reconnect the LCD connector Hard disk drive LCD cable LCD inverter LCD Main board |
| Power-on indicator turns on and LCD is blank. But you can see POST on an external CRT. | Reconnect the LCD connectors. LCD cable LCD inverter LCD Main board |
| Power-on indicator turns on and a blinking cursor shown on LCD during POST. | Ensure every connector is connected tightly and correctly. Main board |

POST Codes

| Code | Beeps | POST Routine Description |
|------|---------|--|
| 02h | | Verify Real Mode |
| 03h | | Disable Non-Maskable Interrupt (NMI) |
| 04h | | Get CPU type |
| 06h | | Initialize system hardware |
| 08h | | Initialize chipset with initial POST values |
| 09h | | Set IN POST flag |
| 0Ah | | Initialize CPU registers |
| 0Bh | | Enable CPU cache |
| 0Ch | | Initialize caches to initial POST values |
| 0Eh | | Initialize I/O component |
| 0Fh | | Initialize the local bus IDE |
| 10h | | Initialize Power Management |
| 11h | | Load alternate registers with initial POST values |
| 12h | | Restore CPU control word during warm boot |
| 13h | | Initialize PCI Bus Mastering devices |
| 14h | | Initialize keyboard controller |
| 16h | 1-2-2-3 | BIOS ROM checksum |
| 17h | | Initialize cache before memory autosize |
| 18h | | 8254 timer initialization |
| 1Ah | | 8237 DMA controller initialization |
| 1Ch | | Reset Programmable Interrupt Controller |
| 20h | 1-3-1-1 | Test DRAM refresh |
| 22h | 1-3-1-3 | Test 8742 Keyboard Controller |
| 24h | | Set ES segment register to 4 GB |
| 26h | | Enable A20 line |
| 28h | | Autosize DRAM |
| 29h | | Initialize POST Memory Manager |
| 2Ah | | Clear 215 KB base RAM |
| 2Ch | 1-3-4-1 | RAM failure on address line xxxx |
| 2Eh | 1-3-4-3 | RAM failure on data bits xxxx of low byte of memory bus |
| 2Fh | | Enable cache before system BIOS shadow |
| 30h | 1-4-1-1 | RAM failure on data bits xxxx of high byte of memory bus |
| 32h | | Test CPU bus-clock frequency |
| 33h | | Initialize Phoenix Dispatch Manager |
| 36h | | Warm start shut down |
| 38h | | Shadow system BIOS ROM |
| 3Ah | | Autosize cache |
| 3Ch | | Advanced configuration of chipset registers |
| 3Dh | | Load alternate registers with CMOS values |
| 42h | | Initialize interrupt vectors |
| 45h | | POST device initialization |
| 46h | 2-1-2-3 | Check ROM copyright notice |

| Code | Beeps | POST Routine Description |
|------|---------|---|
| 48h | | Check video configuration against CMOS |
| 49h | | Initialize PCI bus and devices |
| 4Ah | | Initialize all video adapters in system |
| 4Bh | | QuietBoot start (optional) |
| 4Ch | | Shadow video BIOS ROM |
| 4Eh | | Display BIOS copyright notice |
| 50h | | Display CPU type and speed |
| 51h | | Initialize EISA board |
| 52h | | Test keyboard |
| 54h | | Set key click if enabled |
| 58h | 2-2-3-1 | Test for unexpected interrupts |
| 59h | | Initialize POST display service |
| 5Ah | | Display prompt "Press F2 to enter SETUP" |
| 5Bh | | Disable CPU cache |
| 5Ch | | Test RAM between 512 and 640 KB |
| 60h | | Test extended memory |
| 62h | | Test extended memory address lines |
| 64h | | Jump to User Patch1 |
| 66h | | Configure advanced cache registers |
| 67h | | Initialize Multi Processor APIC |
| 68h | | Enable external and CPU caches |
| 69h | | Setup System Management Mode (SMM) area |
| 6Ah | | Display external L2 cache size |
| 6Bh | | Load custom defaults (optional) |
| 6Ch | | Display shadow-area message |
| 6Eh | | Display possible high address for UMB recovery |
| 70h | | Display error messages |
| 72h | | Check for configuration errors |
| 76h | | Check for keyboard errors |
| 7Ch | | Set up hardware interrupt vectors |
| 7Eh | | Initialize coprocessor if present |
| 80h | | Disable onboard Super I/O ports and IRQs |
| 81h | | Late POST device initialization |
| 82h | | Detect and install external RS232 ports |
| 83h | | Configure non-MCD IDE controllers |
| 84h | | Detect and install external parallel ports |
| 85h | | Initialize PC-compatible PnP ISA devices |
| 86h | | Re-initialize onboard I/O ports |
| 87h | | Configure Motherboard Configurable Devices (optional) |
| 88h | | Initialize BIOS Area |
| 89h | | Enable Non-Maskable Interrupts (NMIs) |
| 8Ah | | Initialize Extended BIOS Data Area |
| 8Bh | | Test and initialize PS/2 mouse |
| 8Ch | | Initialize floppy controller |

| Code | Beeps | POST Routine Description |
|------|-------|--|
| 8Fh | | Determine number of ATA drives (optional) |
| 90h | | Initialize hard-disk controllers |
| 91h | | Initialize local-bus hard-disk controllers |
| 92h | | Jump to UserPatch2 |
| 93h | | Build MPTABLE for multi-processor boards |
| 95h | | Install CD ROM for boot |
| 96h | | Clear huge ES segment register |
| 97h | | Fixup Multi Processor table |
| 98h | 1-2 | Search for option ROMs. One long, two short beeps on checksum failure. |
| 99h | | Check for SMART drive (optional) |
| 9Ah | | Shadow option ROMs |
| 9Ch | | Set up Power Management |
| 9Dh | | Initialize security engine (optional) |
| 9Eh | | Enable hardware interrupts |
| 9Fh | | Determine number of ATA and SCSI drives |
| A0h | | Set time of day |
| A2h | | Check key lock |
| A4h | | Initialize Typematic rate |
| A8h | | Erase F2 prompt |
| AAh | | Scan for F2 key stroke |
| ACh | | Enter SETUP |
| A Eh | | Clear Boot flag |
| B0h | | Check for errors |
| B2h | | POST done- prepare to boot operating system |
| B4h | 1 | One short beep before boot |
| B5h | | Terminate QuietBoot (optional) |
| B6h | | Check password (optional) |
| B9h | | Prepare Boot |
| BAh | | Initialize DMI parameters |
| BBh | | Initialize PnP Option ROMs |
| BCh | | Clear parity checkers |
| BDh | | Display MultiBoot menu |
| BEh | | Clear screen (optional) |
| BFh | | Check virus and backup reminders |
| C0h | | Try to boot with INT 19 |
| C1h | | Initialize POST Error Manager (PEM) |
| C2h | | Initialize error logging |
| C3h | | Initialize error display function |
| C4h | | Initialize system error handler |
| C5h | | PnPnd dual CMOS (optional) |
| C6h | | Initialize notebook docking (optional) |
| C7h | | Initialize notebook docking late |
| C8h | | Force check (optional) |
| C9h | | Extended checksum (optional) |
| D2h | | Unknown interrupt |

| Code | Beeps | For Boot Block in Flash ROM |
|------|-------|-----------------------------------|
| E0h | | Initialize the chipset |
| E1h | | Initialize the bridge |
| E2h | | Initialize the CPU |
| E3h | | Initialize the system timer |
| E4h | | Initialize system I/O |
| E5h | | Check force recovery boot |
| E6h | | Checksum BIOS ROM |
| E7h | | Go to BIOS |
| E8h | | Set Huge Segment |
| E9h | | Initialize Multi Processor |
| EAh | | Initialize OEM special code |
| EBh | | Initialize PIC and DMA |
| ECh | | Initialize Memory type |
| EDh | | Initialize Memory size |
| EEh | | Shadow Boot Block |
| EFh | | System memory test |
| F0h | | Initialize interrupt vectors |
| F1h | | Initialize Run Time Clock |
| F2h | | Initialize video |
| F3h | | Initialize System Management Mode |
| F4h | 1 | Output one beep before boot |
| F5h | | Boot to Mini DOS |
| F6h | | Clear Huge Segment |
| F7h | | Boot to Full DOS |

Index of Symptom-to-FRU Error Message

LCD-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| LCD backlight doesn't work | First, plug a monitor to CRT port. Next, enter BIOS utility to running "Load Default Settings" then reboot the system. Reconnect the LCD connectors. Keyboard (if the brightness function key doesn't work). LCD cable LCD inverter LCD Main board |
| LCD is too dark LCD brightness cannot be adjusted | Enter BIOS Utility to execute "Load Setup Default Settings", then reboot system. Reconnect the LCD connectors. Keyboard (if the brightness function key doesn't work). LCD cable LCD inverter LCD Main board |
| Unreadable LCD screen Missing pels in characters Abnormal screen Wrong color displayed LCD has extra horizontal or vertical lines displayed. | Reconnect the LCD cable LCD cable LCD Main board |

Indicator-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| Indicator incorrectly remains off or on, but system runs correctly | Main board |
| HDD/CD-ROM active indicators cannot work | HDD/CD-ROM drive Device driver Main board |

Power-Related Symptoms

| Symptom / Error | Action in Sequence |
|-----------------------------------|--|
| Power shuts down during operation | Power source (battery pack and power adapter). See "Power System Check" on page 59. Battery pack AC adapter See if the thermal module is overheat (Heat sink or fan). Main board |
| The system cannot power-on. | Power source (battery pack and power adapter). See "Power System Check" on page 59. Battery pack Power adapter CPU Main board |
| The system cannot power-off. | In Windows XP operating system, hold and press the power switch for more than 4 seconds. If the system can power off, then the main board is OK. Verify OS in the HDD. Main board |

Power-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| Battery can't be charged or discharged | See "Check the Battery Pack" on page 60. Battery pack Main board |
| System hang during POST | ODD/HDD/FDD/RAM module Main board |

PCMCIA-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|---|
| System cannot detect the PC Card (PCMCIA) | PCMCIA slot assembly Main board |
| PCMCIA slot pin is damaged. | PCMCIA slot assembly |
| PC Card cannot be inserted or ejected | Check if the PCMCIA slot is blocked Main board |

Memory-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| Memory count (size) appears different from actual size. | Enter BIOS Setup Utility to execute "Load Default Settings" then reboot system. RAM module Main board Check BIOS revision |
| System can power on, but you hear two long beeps: "B--, B--" and the LCD is blank. | Reinsert DIMM DIMM Main board |

Speaker-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|--|
| In Windows, multimedia programs, no sound comes from the computer. | OS volume control Audio driver Speaker Main board |
| Internal speakers make noise or emit no sound. | Speaker Main board |
| Microphone cannot work | Audio driver Volume control in Windows XP Main board |

Power Management-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|---|
| The system will not enter hibernation mode | Power option in Windows XP Hard disk drive Main board |
| The system doesn't enter standby mode after closing the lid of the portable computer. | Driver of Power Option Properties Lid close switch in upper case Main board |

Power Management-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|---|
| The system doesn't resume from hibernation/standby mode. | Connect AC adapter then check if the system resumes from Standby/Hibernation mode. Check if the battery is low. Hard disk drive Main board |
| The system doesn't resume from standby mode after opening the lid of the portable computer. | LCD cover switch Main board |
| Battery fuel gauge in Windows doesn't go higher than 90%. | Refresh battery (continue use battery until power off, then charge battery). Battery pack Main board |
| System hangs intermittently. | Reconnect hard disk/CD-ROM drives. Main board |

Peripheral-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| System configuration does not match the installed devices. | Enter BIOS Setup Utility to execute "Load Setup defaults", then reboot system. Reconnect hard disk/CD-ROM drives/FDD or other peripherals. Main board |
| External display does not work correctly. | Press Fn+F5, LCD/CRT/Both display switching Keyboard Main board |
| USB does not work correctly | Main board |
| Print problems. | Enter BIOS Setup Utility to execute "Load Default Settings" then reboot the system. Run printer self-test. Printer driver Printer cable Printer Main board |
| Parallel port device problems | Enter BIOS Setup Utility to execute "Load Default Settings" then reboot the system. Device driver Device cable Device Main board |

Keyboard/Touchpad-Related Symptoms

| Symptom / Error | Action in Sequence |
|--|---|
| Keyboard (one or more keys) does not work. | Reconnect the keyboard cable. Keyboard Main board |
| Touchpad does not work. | Reconnect touchpad cable. Touchpad board Main board |

Modem/LAN-Related Symptoms

| Symptom / Error | Action in Sequence |
|---|--|
| Internal modem does not work correctly. | Phone cable Driver Reconnect the Internal modem cable to the main board tightly. Main board |
| Internal LAN does not work correctly | Lan cable Driver Main board |

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 73.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

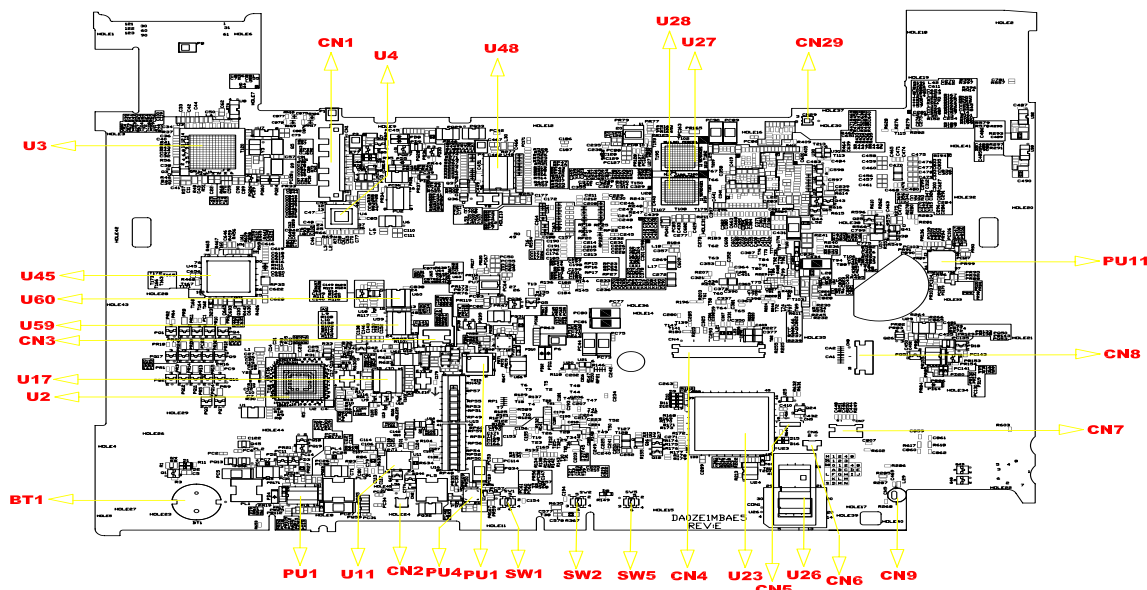
NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power System Check” on page 59):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
 - ☐ Non-Acer devices
 - ☐ Printer, mouse, and other external devices
 - ☐ Battery pack
 - ☐ Hard disk drive
 - ☐ DIMM
 - ☐ PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
 - ☐ System board
 - ☐ LCD assembly

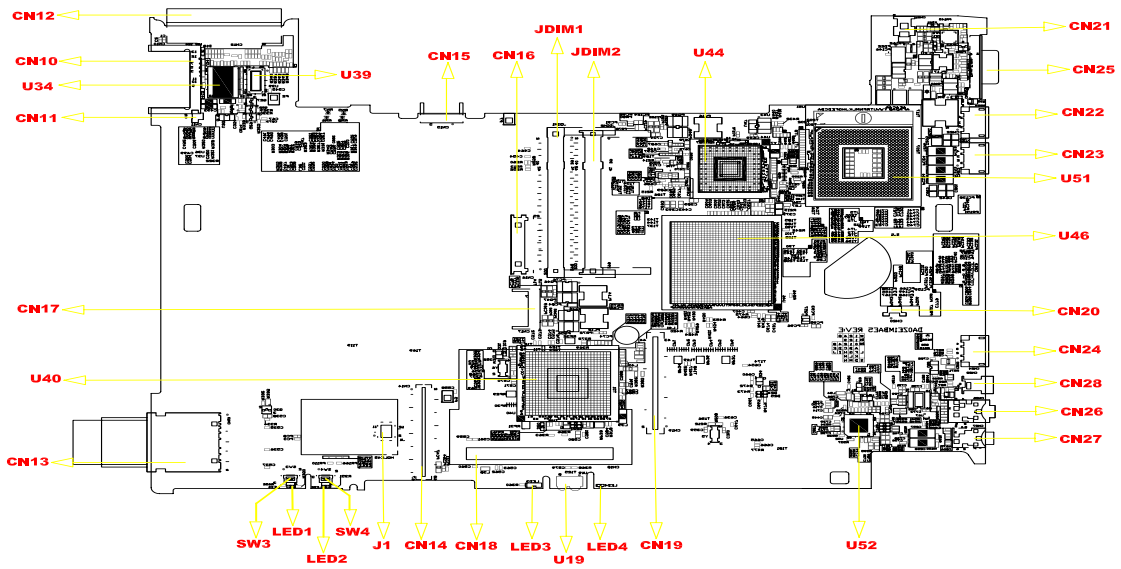
Jumper and Connector Locations

Top View



| | | | |
|------|-----------------------|-----|-----------------------|
| CN1 | LCD connector | SW2 | Touchpad Switch |
| U4 | DVI Transfer IC | SW1 | Touchpad Switch |
| U48 | Clock Generator IC | PU1 | System PWR IC |
| U28 | Video RAM | PU4 | Speaker Connector |
| U27 | Video RAM | U11 | CardBus PWR IC |
| CN29 | Lid-Switch | PU1 | System PWR IC |
| PU11 | CPU PWR IC | BT1 | RTC Battery Connector |
| CN8 | Quick Board Connector | U2 | CardBus IC |
| CN7 | Jogdial Connector | U17 | Track Point IC |
| CN9 | Microphone Connector | CN3 | Track Point Connector |
| CN6 | Pen-Sensor | U59 | ODD Switch IC |
| U26 | BIOS | U60 | ODD Switch IC |
| CN5 | Bluetooth Connector | U45 | Super I/O IC |
| U23 | Keyboard Control IC | U3 | GigaLAN IC |
| CN4 | Keyboard Connector | | |
| SW5 | Power-On Switch | | |

Bottom View



CN15 Battery Connector

CN16 ODD Connector

JDIM1 9.2H DDR2

JDIM2 5.2H DDR2

U44 Graphic Chip

CN21 DC-in Jack

CN25 CRT

CN22 USB Port

CN23 USB Port

U51 CPU Socket

U46 North Bridge

CN20 FAN Connector

CN24 USB Port

CN28 1394 Connector

CN26 Audio Jack (Blue)

CN27 Audio Jack (Green)

U52 Audio Codec

CN19 HDD Connector

LED4 HDD LED (Green)

U19 FIR

LED3 Power LED (Green/Amber)

CN18 Mini PCI Connector

CN14 PCMCIA Slot (Main Board Side)

J1 MDC Connector

SW4 Wireless Switch

LED2 Wireless LED (Amber)

LED1 Bluetooth LED (Blue)

SW3 Bluetooth Switch

CN13 3-in-1 Card Reader Slot

U40 South Bridge

CN17 2nd-Battery Connector

CN11 Modem

U34 LAN Transfermer

CN10 RJ45-RJ11

CN12 Docking Port

U39 LAN Switch IC

FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of TravelMate C200 series products. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

Exploded Diagram

NOTE: The exploded diagram is not ready as the service guide released. We will update the section later.

NOTE: The photos below are taken from an engineering sample. The cover of the engineering sample's case is not what you would see on the finish-good shipping product.





TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|--|--------------|
| Adapter | | | |
|  | | LITE-ON NB ADAPTER PA-1650-02QR, 19V, 3 PINS, 65W | AP.06503.010 |
| | | LSE NB ADAPTER SLS0335A19A57LF 19V 3 PINS 65W | AP.06506.002 |
| Battery | | | |
|  | | LI-ION SANYO 3S1P 2.0AH high rate W/O IND (W/Z SANYO PACK CELLS) | BT.00303.003 |
| | | LI-ION SANYO 3S2P 4.8AH W/O IND (W/Z SANYO PACK CELLS) | BT.T4803.001 |
| | | LI-ION SANYO 3S3P 4.8AH W/O IND (W/Z SANYO PACK CELLS) | BT.00903.001 |
| | | | |
|  | | MODEM BOARD | 54.TAKV7.001 |
|  | | BLUETOOTH MODULE W/ANTENNA | 54.TADV7.001 |
|  | | WIRELESS LAN BOARD (802.11b+g) INTEL | KI.CAX01.008 |
| | | WIRELESS LAN BOARD (802.11a/b/g) INTEL EU | KI.CAX01.010 |
| | | WIRELESS LAN BOARD (802.11a/b/g) INTEL NA | KI.CAX01.009 |
| | | WIRELESS LAN BOARD (802.11a/b/g) INTEL RW | KI.CAX01.011 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---------------------------|--------------|
|  | | JOYSTICK BOARD | 55.TADV7.001 |
|  | | PCMCIA SLOT MODULE | 55.TADV7.002 |
|  | | LAUNCH BOARD | 55.TADV7.003 |
|  | | PEN SENSOR BOARD | 55.TADV7.004 |
| | | | |
|  | | PEN SENSOR BOARD CABLE | 50.TADV7.001 |
|  | | FFC- JOYSTICK BOARD TO MB | 50.TADV7.002 |
|  | | FFC - LAUNCH BOARD TO MB | 50.TADV7.003 |
|  | | BLUETOOTH CABLE | 50.TADV7.004 |
| | | MODEM CABLE LEAD FREE | 50.TADV7.005 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|-------------------------------|--------------|
|  | | POWER CORD AF (3 PIN) | 27.T48V7.001 |
| | | POWER CORD DANISH (3 PIN) | 27.A03V7.006 |
| | | POWER CORD AU W/LABEL (3 PIN) | 27.A50V7.003 |
| | | POWER CORD AF-S (INDIA) | 27.A50V7.001 |
| | | POWER CORD UK (3 PIN) | 27.A03V7.004 |
| | | POWER CORD PRC (3 PIN) | 27.A03V7.003 |
| | | POWER CORD US (3 PIN) | 27.A03V7.001 |
| | | POWER CORD KOERA (Pin) | 27.T23V7.006 |
| | | POWER CORD EU (3 PIN) | 27.A03V7.002 |
| | | POWER CORD ITALIAN (3 PIN) | 27.A03V7.005 |
| | | POWER CORD- SWISS | 27.A03V7.007 |
| | | POWER CORD ISRAEL (3 PIN) | 27.A50V7.002 |
| | | | |
|  | | MIDDLE COVER | 42.TADV7.001 |
|  | | HINGE COVER R | 42.TADV7.002 |
|  | | HINGE COVER L | 42.TADV7.003 |
|  | | UPPER CASE W/ ANTENNA | 60.TADV7.001 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|--------------|
|  | | LOWER CASE W/ SPEAKER | 60.TADV7.002 |
|  | | PCI DOOR | 42.TADV7.004 |
|  | | RAM DOOR | 42.TADV7.005 |
|  | | PCMCIA SUPPORT BRACKET | 33.TDAV7.001 |
| | | ZE1 PCMCIA DUMMY Card | 42.TADV7.006 |
| CPU | | | |
|  | | Celeron M 350 (1.3G 1M) C0 | KC.NC001.350 |
| | | Celeron M 360 (1.4G 1M) C0 | KC.NC001.360 |
| | | Celeron M 370 (1.5G 1M) C0 | KC.NC001.370 |
| | | CELERON M 380 (1.6G 1M) C0 | KC.NC001.380 |
| | | Pentium M 725 (1.6G 2M 400FSB) | KC.N0001.725 |
| | | Pentium M 730 (1.6G 2M 533FSB) | KC.N0001.730 |
| | | Pentium M 740 (1.73G 2M 533FSB) | KC.N0001.740 |
| | | Pentium M 750 (1.87G 2M 533FSB) | KC.N0001.750 |
| | | Pentium M 760 (2.0G 2M 533FSB) | KC.N0001.760 |
| | | Pentium M 770 (2.13G 2M 533FSB) | KC.N0001.770 |
|  | | DVD CDRW COMBO ASSY(PANASONIC)STNB/S | 6M.TADV7.001 |




TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|--------------|
|  | | DVD/CDRW (COMBO) UJDA770AC-A | KO.02406.013 |
|  | | ODD CONNECTOR BOARD | 55.TADV7.005 |
|  | | ODD HOLDER | 42.TADV7.007 |
|  | | DVD COMBO BEZEL ASSY | 42.TADV7.008 |
|  | | | 6M.TADV7.002 |
|  | | DVD DUAL(DL), LITEON SOLW-831S, SLOT-IN, F/W:WRT9 | KU.00804.016 |
|  | | ODD CONNECTOR BOARD | 55.TADV7.005 |
|  | | ODD HOLDER | 42.TADV7.007 |









TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|--------------|
|  | | DVD DUAL LITE-ON SLOT IN BEZEL ASSY | 42.TADV7.009 |
| | | | |
|  | | 100G SEAGATE 2.5' 4200RPM N2.2ST9100825A F/W:3.04 | KH.10001.003 |
| | | 100G TOSHIBA 2.5' 4200RPM ARES MK1031GAS (ROHS) F/W AA204A | KH.10004.001 |
| | | 100G HGST 2.5' 4200RPM HAKONE-A F/ W:A70G | KH.10007.002 |
| | | 40G TOSHIBA 2.5' 4200RPM PLUTO MK4025GAS (ROHS) F/W KA100A | KH.04004.005 |
| | | 40G HGST 2.5' 4200RPM HAKONA-A F/W :A70G | KH.04007.013 |
| | | 60G SEAGATE 2.5' 4200RPM N2.2ST960812A F/W:3.04 | KH.06001.003 |
| | | 60G HGST 2.5' 4200RPM HAKONE-A F/W :A70G | KH.06007.009 |
| | | 80G SEAGATE 2.5' 4200RPM N2.2ST980829A F/W:3.04 | KH.08001.013 |
| | | 80G HGST 2.5' 4200RPM HAKONE-A F/ W:A70G | KH.08007.011 |
| | | | |
| | | 40G SEAGATE 2.5 IN. 4200RPM N2.1ST9402113A F/W:3.01 | KH.04001.016 |
| | | 60G TOSHIBA 2.5 IN. 4200RPM PLUTO MK6025GAS CZK(ROHS) F/W:KA200A | KH.06004.004 |
| | | 80G TOSHIBA 2.5 IN. 4200RPM PLUTO MK8025GAS (ROHS) F/W:KA023A | KH.08004.003 |
|  | | HDD CONNECTOR | 55.TADV7.006 |
|  | | HDD COVER | 42.TADV7.010 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|---------------|
|  | | HDD BRACKET | 33.TADV7.002 |
| Keyboard | | | |
|  | | TMC200 KEYBOARD DARFON US International | KB.TAD07.001 |
| | | TMC200 KEYBOARD DARFON Chinese | KB.TAD07.002 |
| | | TMC200 KEYBOARD DARFON Thai | KB.TAD07.004 |
| | | TMC200 KEYBOARD DARFON Czech | KB.TAD07.016 |
| | | TMC200 KEYBOARD DARFON Brazilian Protugese | KB.TAD07.005 |
| | | TMC200 KEYBOARD DARFON Russian | KB.TAD07.025 |
| | | TMC200 KEYBOARD DARFON Turkish | KB.TAD07.020 |
| | | TMC200 KEYBOARD DARFON Belgium | KB. TAD07.014 |
| | | TMC200 KEYBOARD DARFON Sweden | KB.TAD07.015 |
| | | TMC200 KEYBOARD DARFON UK | KB.TAD07.007 |
| | | TMC200 KEYBOARD DARFON French | KB.TAD07.010 |
| | | TMC200 KEYBOARD DARFON German | KB.TAD07.008 |
| | | TMC200 KEYBOARD DARFON Italian | KB.TAD07.009 |
| | | TMC200 KEYBOARD DARFON Japanese | KB.TAD07.022 |
| | | TMC200 KEYBOARD DARFON Danish | KB.TAD07.019 |
| | | TMC200 KEYBOARD DARFON Spanish | KB.TAD07.003 |
| | | TMC200 KEYBOARD DARFON Arabic | KB.TAD07.013 |
| | | TMC200 KEYBOARD DARFON Swiss/G | KB.TAD07.011 |
| | | TMC200 KEYBOARD DARFON Portuguese | KB.TAD07.012 |
| | | TMC200 KEYBOARD DARFON Norway | KB.TAD07.018 |
| | | TMC200 KEYBOARD DARFON Korea | KB.TAD07.006 |
| | | TMC200 KEYBOARD DARFON Hungaian | KB.TAD07.017 |
| | | TMC200 KEYBOARD DARFON Canadian French | KB.TAD07.021 |
| | | TMC200 KEYBOARD DARFON Hebrew | KB.TAD07.024 |
| | | TMC200 KEYBOARD DARFON Greek | KB.TAD07.023 |
|  | | ZE1 LCD 12.1 IN. XGA ASSY HYDIS HT12X21 | 6M.TADV7.011 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|--|--------------|
|  | | LCD(TFT) 12.1 IN. HYDIS HT12X21-220(XGA) LF W/PROTECT COVER | 56.TADV7.001 |
|  | | INVERTER BOARD LF | 19.TADV7.001 |
|  | | POWER BUTTON/B ASSY | 55.TADV7.007 |
|  | | TABLET BUTTON/B ASSY | 55.TADV7.008 |
|  | | FINGER PRINT BOARD | 55.TADV7.009 |
|  | | CABLE ASSY - FINGER12.1(50/55P,1A)LF | 50.TADV7.006 |
|  | | LCD STAND | 33.TADV7.003 |
|  | | LCD BEZEL | 60.TADV7.003 |




TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|--------------|
|  | | LCD COVER W/ANTENNA - HYDIS | 60.TADV7.004 |
|  | | DIGITIZER PANEL -WACOM SU-1201E-02X | 56.TADV7.002 |
| | | | |
| | | ZE1 LCD 12.1 IN. XGA ASSY HYDIS HT12X21 W/O FINGER | 6M.TADV7.021 |
| | | LCD(TFT) 12.1 IN. HYDIS HT12X21-220(XGA) LF W/PROTECT COVER | 56.TADV7.001 |
| | | INVERTER BOARD LF | 19.TADV7.001 |
| | | POWER BUTTON/B ASSY | 55.TADV7.007 |
| | | TABLET BUTTON/B ASSY | 55.TADV7.008 |
| | | CABLE ASSY - W/O FINGER12.1(50/55P,1A)LF | 50.TADV7.007 |
| | | LCD STAND | 33.TADV7.003 |
| | | LCD BEZEL W/O FINGER | 60.TADV7.008 |
| | | LCD COVER W/ANTENNA - HYDIS | 60.TADV7.004 |
| | | DIGITIZER PANEL -WACOM SU-1201E-02X | 56.TADV7.002 |
| | | | |
| | | ZE1 LCD 12.1 IN. XGA ASSY TOSHIBA LTD121KA0Q | 6M.TADV7.012 |
| | | LCD(TFT)12.1 IN. TOSHIBA LTD121KA0Q LF W/PROTECT COVER | 56.TADV7.002 |
| | | INVERTER BOARD LF | 19.TADV7.001 |
| | | POWER BUTTON/B ASSY | 55.TADV7.007 |
| | | TABLET BUTTON/B ASSY | 55.TADV7.008 |
| | | FINGER PRINT BOARD | 55.TADV7.009 |
| | | CABLE ASSY - FINGER12.1(50/55P,1A)LF | 50.TADV7.006 |
| | | LCD STAND | 33.TADV7.003 |
| | | LCD BEZEL | 60.TADV7.003 |
| | | LCD COVER W/ANTENNA - TOSHIBA | 60.TADV7.009 |
| | | DIGITIZER PANEL -WACOM SU-1201E-02X | 56.TADV7.002 |
| | | | |
| | | ZE1 LCD 12.1 IN. XGA ASSY TOSHIBA LTD121KA0Q W/O FINGER | 6M.TADV7.022 |
| | | LCD(TFT)12.1 IN. TOSHIBA LTD121KA0Q LF W/PROTECT COVER | 56.TADV7.002 |
| | | INVERTER BOARD LF | 19.TADV7.001 |
| | | POWER BUTTON/B ASSY | 55.TADV7.007 |
| | | TABLET BUTTON/B ASSY | 55.TADV7.008 |
| | | CABLE ASSY - W/O FINGER12.1(50/55P,1A)LF | 50.TADV7.007 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|---|--------------|
| | | LCD STAND | 33.TADV7.003 |
| | | LCD BEZEL W/O FINGER | 60.TADV7.008 |
| | | LCD COVER W/ANTENNA - TOSHIBA | 60.TADV7.009 |
| | | DIGITIZER PANEL -WACOM SU-1201E-02X | 56.TADV7.002 |
| | | | |
|  | | MAINBOARD UMA W/MODEM CABLE, 4 IN 1 W/O CPU MEMORY | LB.TAD06.001 |
| | | MAINBOARD NVIDIA NV44M64 W/MODEM CABLE, 4 IN 1 W/O CPU MEMORY | LB.TAU06.001 |
| | | RTC BATTERY - ML1220 | 23.T42V7.001 |
| | | | |
|  | | MEMORY INFINEON DDRII533256M HYS64T32000HDL-3.7-A 32X64 CL4 | KN.25602.023 |
| | | SO-DIMM DDRII533 256MB NT256T64UH4A0FN-37B LF | KN.25603.020 |
| | | SO-DIMM DDRII533 256MB MT8HTF3264HDY-53EB3 LF | KN.25604.023 |
| | | MEMORY DDRII 533 256MB M470T3354CZ3-CD5 (PB-FREE), SAMSUNG | KN.2560B.016 |
| | | SO-DIMM DDRII533 256MB HYMP532S64P6-C4 LF | KN.2560G.006 |
| | | MEMORY SO-DIMM DDRII 533 256MB HYMP532S64P6-C4, HYNIX | KN.51202.021 |
| | | MEMORY SO-DIMM DDRII 533 512MB NT512T64UH8A0FN-37B, NANYA | KN.51203.018 |
| | | SO-DIMM DDRII533 512MB M470T6554CZ3-CD500 LF | KN.5120B.015 |
| | | SO-DIMM DDRII533 512MB HYMP564S64P6-C4 LF | KN.5120G.005 |
| | | | |
| | | SPEAKER SET | 23.TADV7.001 |
|  | | THERMAL MODULE | 60.TADV7.005 |
|  | | STYLUS | 60.TADV7.006 |

TravelMate C200 FRU List

| Picture | No. | Partname And Description | Part Number |
|---|-----|--|--------------|
| | | LATCH RUBBER | 47.TADV7.001 |
|  | | LCD RUBBER Note: Larger one is LCD rubber. | 47.TADV7.002 |
|  | | LCD RUBBER MID Note: Smaller one is LCD rubber mid. | 47.TADV7.003 |
|  | | LOWER CASE RUBBER FOOT | 47.TADV7.004 |
| | | | |
| | | WEIGHT SAVER | |
| | | | |
| | | SCREW M2.0*2.5-I(NI)(NYLOK) | |
| | | SCREW M2.0*5-I(NI)(NYLOK) | |
| | | SCREW M2.5*4.0-I(NI)(NYLOK) | |
| | | SCREW M2.0*6 I-BNI | |
| | | SCREW M2.5*3-I(NI,NYLOK) | |
| | | SCREW M2*5-I(BNI)(NYLOK)(D3H0.3)LF | |

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