TOSHIBA

Toshiba NB205 Series User Manual

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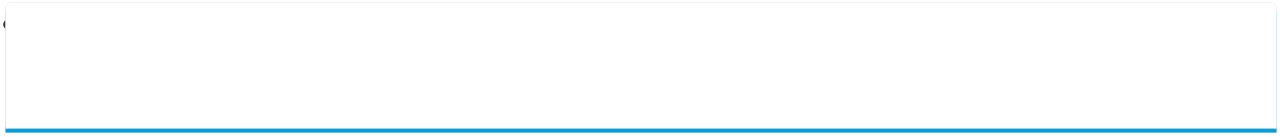

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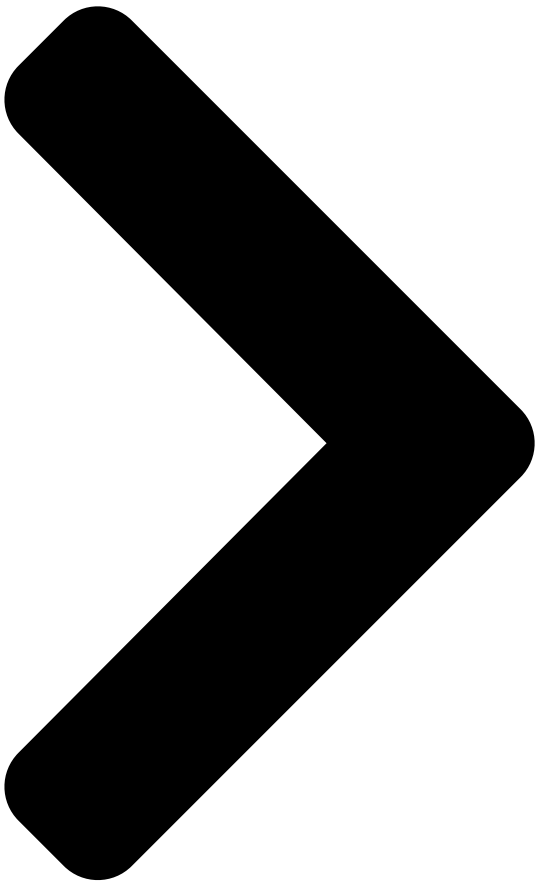

TOSHIBA NB200/ NB205 series User's Manual

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Related Manuals for Toshiba NB205 Series

Laptop Toshiba NB205-N210 Specifications

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Laptop Toshiba NB205-N310 Specifications

Toshiba nb205-n310: specifications (4 pages)

Laptop Toshiba NB205-N311 Specifications

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Laptop Toshiba NB205-N312 Specifications

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Laptop Toshiba NB205-N313 Specifications

Toshiba nb205-n313: specifications (4 pages)

Netbook Toshiba Mini NB305 Series User Manual

Keyboard (silver colored) removal guide (3 pages)

Laptop Toshiba NB205-N230 User Manual

Nb205-n230 user's guide (210 pages)

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Laptop Toshiba NB200-SP2904A Manual Del Usuario

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Summary of Contents for Toshiba NB205 Series

Page 1 TOSHIBA NB200/ NB205 series User's Manual...

Page 2: Copyright

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Page 3: Fcc Information

Only peripherals complying with the FCC class B limits may be attached to this equipment.

Operation with non-compliant peripherals or peripherals not recommended by TOSHIBA is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices and the computer’s external monitor port, Universal Serial Bus...

Page 4: Eu Declaration Of Comformity

"CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC and/or R&TTE Directive 1999/5/EC. Responsible for CE marking: TOSHIBA EUROPE GMBH, Hamfel damm 8, 41460 Neuss, Germany. Manufacturer: Toshiba Corporation, 1-1 Shibaura 1- chome, Minato-ku, Tokyo, 105-8001, Japan.

Page 5: Following Information Is Only For Eu-Member States

For more detailed information about the collection and recycling programmes available in your country, please visit our website (http://eu.computers.toshiba-europe.com) or contact your local city office or the shop where you purchased the product. Disposal of batteries and/or accumulators The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

Page 6

ENERGY STAR logo on the computer and the following information applies. TOSHIBA is a partner in the ENERGY STAR Program and has designed this computer to meet the latest ENERGY STAR guidelines for energy efficiency.

Page 7: Table Of Contents

Table of Contents Copyright.....ii Disclaimer .

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Front with the display open .... 2-8 AC adaptor .....2-11 Getting Started Chapter 3 Connecting the AC adaptor .

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TOSHIBA support .....

Page 10: Preface

This manual tells how to set up and begin using your TOSHIBA NB200 computer. It also provides detailed information on configuring your computer, basic operations and care, using optional devices and troubleshooting.

Page 11: Conventions

Preface Chapter 5, Keyboard, describes special keyboard functions including the keypad overlay and hot keys. Chapter 6, Power and Power-up Modes, gives details on the computer’s power resources and battery save modes. Chapter 7, BIOS Setup and Passwords, explains how to configure the computer using the BIOS Setup program.

Page 12

Preface When procedures require an action such as clicking an icon or entering text, the icon's name or the text you are to type in is represented in the typeface you see to the left. Display Names of windows or icons or text generated by the computer that appear on its display screen are presented in the type face you see to the left.

Page 13: General Precautions

General Precautions TOSHIBA computers are designed to optimize safety, minimize strain and withstand the rigors of portability. However, certain precautions should be observed to further reduce the risk of personal injury or damage to the computer. Be certain to read the general precautions below and to note the cautions included in the text of the manual.

Page 14: Heat Injury

General Precautions Heat injury ■ Avoid prolonged physical contact with the computer. If the computer is used for long periods, its surface can become very warm. While the temperature will not feel hot to the touch, if you maintain physical contact with the computer for a long time, for example if you rest the computer on your lap or if you keep your hands on the palm rest, your skin might suffer a low-heat injury.

Page 15: Introduction

Some of the features described in this manual may not function properly if you use an operating system that was not pre-installed by TOSHIBA. Equipment checklist Carefully unpack your computer, taking care to save the box and packaging materials for future use.

Page 16: Features

Online Manual ■ TOSHIBA NB200 User's Manual (This manual) SD Memory Card Format Utility and other SD functions are packaged into TOSHIBA SD Memory Utilities. When uninstalling the SD utilities, click Start Control Panel Uninstall a program, and select TOSHIBA SD Memory Utilities.

Page 17 Built-in Your computer is equipped with one processor and processor type varies depending on model. To check which type of processor is included in your model, open the TOSHIBA PC Diagnostic Tool Utility by clicking Start All programs TOSHIBA Utilities TOSHIBA PC diagnostic Tool.

Page 18 Introduction Keyboard Built-in The internal keyboard provides the embedded numeric overlay keys, dedicated cursor control overlay keys, Keys. The keyboard ® is compatible with the IBM enhanced keyboard. Refer to Chapter 5, Keyboard, for details. Pointing Device Built-in Touch Pad The integrated Touch Pad and control buttons in the palm rest allow control of the on-screen pointer and support functions such as the...

Page 19 Introduction Multimedia Sound system The integrated sound system provides support for the computer's internal speakers and microphone, also allowing an external microphone and headphones to be connected via the appropriate jacks. Web Camera Web Camera is a device that allows you to record video or take photographs with your computer.

Page 20: Special Features

Special features The following features are either unique to TOSHIBA computers or are advanced features which make the computer more convenient to use. Access each function using the following procedures. *1 To access the Power Options, click Start...

Page 21 Introduction Display automatic This feature automatically cuts off power to the computer's display panel when there is no power off keyboard input for a specified time, with power being restored the next time a key is pressed. This can be specified in the Power Options. HDD automatic This feature automatically cuts off power to the hard disk drive when it is not accessed for a...

Page 22: Utilities And Applications

To start the utility, click the Windows Start button, point to All Programs, click TOSHIBA, click Utilities, and select BIOS Setup icon. TOSHIBA ConfigFree TOSHIBA ConfigFree is a suite of utilities that improve the ease and control of communication devices and network connections, help in the...

Page 23 Video. It has an on-screen interface and functions. Click Start All Programs TOSHIBA WinDVD PLAYER. Frame dropping, audio skipping or out of synch audio and video may occur during playback of some DVD Video titles. Make sure to connect the computer's AC adaptor when playing a DVD Video.

Page 24: Options

Introduction Options You can add a number of options to make your computer even more powerful and convenient to use. The following options are available: Memory expansion 1,024MB or 2,048MB memory module (DDR2-533) can easily be installed in the computer. Battery Pack An additional battery pack can be purchased for use as either a spare or replacement.

Page 25: Chapter 2 The Grand Tour

Chapter 2 The Grand Tour This chapter identifies the various components of your computer. Become familiar with each component before you operate the computer. Front with the display closed The following figure shows the computer's front with its display panel in the closed position.

Page 26: System Indicators

The Grand Tour System indicators The LED system indicators for specific computer operations glow when those operations are in progress. Figure 2-2 System indicators Wireless The Wireless/Bluetooth indicator glows amber communication when the computer is enable to connect wireless LAN, Bluetooth or wireless WAN. Wireless WAN The Wireless WAN indicator glows blue when communication...

Page 27: Left Side

The Grand Tour Arrow Lock When the Arrow indicator lights green, you can use the dark gray labeled keys on the keypad overlay as cursor keys. Numeric Lock This indicator glows green, you can use the keypad overlay (light gray labeled keys) for numeric input.

Page 28 The Grand Tour Microphone jack A standard 3.5 mm mini microphone jack enables connection of a microphone or other device for audio input. Headphone jack A standard 3.5 mm mini headphone jack enables connection of a stereo headphone (16 ohm minimum) or other device for audio output.

Page 29: Right Side

The Grand Tour Right side The following figure shows the computer's right side. 1. Universal Serial Bus (USB 2.0) port 2. DC IN 19V jack 3. Security lock slot Figure 2-4 The right side of the computer Universal Serial Bus Two Universal Serial Bus ports, which comply (USB 2.0) port with the USB 2.0 standard, are provided on the...

Page 30: Back Side

The Grand Tour Back side Figure 2-5 shows the computer's back side. Figure 2-5 The computer's back side. Underside The following figure shows the underside of the computer. You should ensure that the display is closed before the computer is turned over to avoid causing any damage.

Page 31 The Grand Tour Memory module The memory module slots are located here. The slots memory module slots allow for the installation, replacement and removal of additional memory modules. Please refer to the Additional memory module section in Chapter 8, Optional Devices for more information.

Page 32: Front With The Display Open

The Grand Tour Front with the display open This section shows the computer with the display panel open. In order to open the display, lift the display panel up and position it at a comfortable viewing angle for you. 1. Web Camera LED 2.

Page 33 The Grand Tour Web Camera LED The Web Camera LED glows when the Web Camera is operating. Please remove the protective plastic-film before using the Web Camera. Web Camera Web Camera is a device that allows you to record video or take photographs with your computer.

Page 34 The Grand Tour Keyboard indicators When the CAPS LOCK indicator glows, the keyboard will produce capitals when any letter is typed. Figure 2-8 Keypad indicators CAPS LOCK This indicator glows green when letter keys are locked into their uppercase format. User's Manual 2-10...

Page 35: Ac Adaptor

Always use the TOSHIBA AC adaptor that was included with your computer, or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor could cause fire or damage to the computer possibly resulting in serious injury.

Page 36: Chapter 3 Getting Started

Chapter 3 Getting Started This chapter provides basic information to start using your computer. It covers the following topics: ■ If the battery pack is not pre-installed in the computer that you purchased, please install the battery pack before you start using the computer.

Page 37 Getting Started ■ Use a anti-virus software and make sure it is updated regularly. ■

Never format storage media without checking its content - formatting destroys all stored data. ■ It is a good idea to periodically back up the internal hard disk drive or other main storage device to external media.

Page 38: Connecting The Ac Adaptor

■ Always use the TOSHIBA AC adaptor that was included with your computer or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor could cause fire or damage to the computer possibly resulting in serious injury.

Page 39 Getting Started 1. Connect the power cord to the AC adaptor. Figure 3-1 Connecting the power cord to the AC adaptor (2-pin plug) Figure 3-2 Connecting the power cord to the AC adaptor (3-pin plug) Either a 2-pin or 3-pin adaptor/cord will be included with the computer depending on the model.

Page 40: Opening The Display

Getting Started Opening the display The display panel can be opened to a wide range of angles for optimal viewing. While holding down the palm rest with one hand so that the main body of the computer is not raised, slowly lift the display panel - this will allow the angle of the display panel to be adjusted to provide optimum clarity.

Page 41 Getting Started ■ As the display panel cannot be flipped to180 degrees, please be careful of the angle when flipping open the display panel. ■ Be careful not to open the display panel too far as this could put stress on the display panel’s hinges and cause damage.

Page 42: Turning On The Power

■ Volume cannot be adjusted during Windows Setup. 1. Open the computer's display panel. 2. Press the computer's power button. TOSHIBA 1. Power button Figure 3-5 Turning on the power Starting up for the first time The Microsoft Windows XP Startup Screen will be the first screen displayed when you turn on the power.

Page 43: Turning Off The Power

Getting Started Turning off the power The power can be turned off in one of three modes, either Shut Down Mode, Hibernation Mode or Standby Mode. Shut Down Mode When you turn off the power in Shut Down Mode no data will be saved and the computer will boot to the operating system's main screen the next time it is turned on.

Page 44 Getting Started ■ Saves data to the hard disk drive when the computer automatically shuts down because of a low battery condition. ■ You can return to your previous working environment immediately when you turn on the computer. ■ Saves power by shutting down the system when the computer receives no input or hardware access for the time period set by the System Hibernate feature.

Page 45 Getting Started Turning Off Your Computer where Electronic Devices are Regulated or Controlled. When you have to turn off your computer aboard an aircraft or in places where electronic devices are regulated or controlled, always shut down the computer completely or put the computer into Hibernation mode instead of allowing it to go into Standby mode, and turn off any wireless communication switches or devices, while in Standby mode, the computer operating system may reactivate itself to run pre-programmed tasks or to...

Page 46: Restarting The Computer

System Recovery Options You can use TOSHIBA Disc Creator when you connect External ODD. Create optical recovery discs A recovery image of your computer is stored on the hard disk. You may use this image to create CD or DVD recovery discs using the following steps: 1.

Page 47: Restoring The Preinstalled Software From The Recovery Hdd

1. Load the Recovery Media in the optional optical disc drive and turn off the computer's power. 2. Turn on the power. When TOSHIBA Leading Innovation>>> appears, press the F12 key. 3. Use the up or down cursor key to select CD/DVD in the display menu.

Page 48 Getting Started When drivers Utilities are installed, you can setup the respective drivers and utilities from the following folder. C: \ TOSAPINS*** . When removing pre-installed

drivers/utilities or when installing, you can setup the respective drivers/utilities from the following folder. C:\TOSAPINS*** User's Manual 3-13...

Page 49: Chapter 4 Operating Basics

Chapter 4 Operating Basics This chapter describes the basic operations of your computer, highlights the precautions that should be taken when using it. Using the Touch Pad To use the Touch Pad, simply touch and move your fingertip across it in the direction you want the on-screen pointer to go.

Page 50: Usb Sleep And Charge Function

Operating Basics You can also tap the Touch Pad to perform functions similar to those of the left button on a standard mouse. Click: Tap once Double-click: Tap twice Drag and drop: Tap to select the item(s) you want to move, leave your finger on the Touch Pad after the second tap and then move the item(s) to their new destination.

Page 51 Menu. Please refer to the USB Sleep and Charge function in Chapter 7. TOSHIBA Disc Creator You can use TOSHIBA Disc Creator when you connect External ODD. Please be aware of the following limitations when you use the TOSHIBA Disc Creator: ■...

Page 52 Operating Basics ■ Do not use the 'Disc Backup' function of TOSHIBA Disc Creator in order to copy DVD Video or DVD-ROM material that has copyright protection. ■ DVD-RAM discs cannot be backed up using the 'Disc Backup' function of TOSHIBA Disc Creator.

Page 53 4. Select File Open or Full Compare mode. 5. Click the OK button. How to learn more about TOSHIBA Disc Creator Please refer to the Help files for additional TOSHIBA Disc Creator information. ■ Opening the TOSHIBA Disc Creator Manua...

Page 54: Using The Web Camera

Operating Basics Using the web camera Built-in web camera is provided with some models.This section describes the bundled webcam utility, which can capture still and video images. The web camera will auto-run when Windows starts. Please unstick the protective plastic-film before using the Web Camera. 1.

Page 55: Using The Software

Operating Basics Using the software If you need to restart the web camera software, go to Start Programs TOSHIBA Utilities Web Camera Application. 1. Photo/ Video 2. Settings Figure 4-3 Using the Software Photo/ Video Settings Using the microphone You can use the built-in or an external microphone that connects to the microphone jack to record monaural sounds into your applications.

Page 56: Wireless Communications

■ TOSHIBA is not liable for the loss of data due to eavesdropping or illegal access through the wireless LAN and the damage thereof. Bluetooth wireless technology Bluetooth™...

Page 57 Operating Basics Worldwide operation The Bluetooth radio transmitter and receiver operate in the 2.4GHz band, which is license-free and compatible with radio systems in most countries in the world. Radio links You can easily establish links between two or more devices, with these links being maintained even if the devices are not within a line-of-sight of each other.

Page 58: Lan

Operating Basics Wireless communication indicator The wireless communication indicator shows the status of the computer's wireless communication functions. Indicator status Indication Indicator off The wireless communication is set to off - no wireless functionality is available. Indicator glows Wireless communication is set to on. Wireless LAN or Bluetooth is turned on by an application.

Page 59 Operating Basics Connecting the LAN cable To connect the LAN cable, follow the steps as detailed below: ■ Connect the AC adaptor before connecting the LAN cable. The AC adaptor must remain connected during LAN use. If you disconnect the AC Adaptor while the computer is accessing a LAN, the system may hang up.

Page 60: Cleaning The Computer

Operating Basics Make sure the LAN Active indicator (amber LED) is out before you disconnect the computer from the LAN. 1. Pinch the lever on the connector in the computer’s LAN jack and pull out the connector. 2. Disconnect the cable from the LAN hub or router in the same manner. Check with your LAN administrator and hardware or software vendor before disconnecting from the hub.

Page 61: Moving The Computer

Operating Basics Moving the computer While the computer is designed for rugged durability you should exercise a few simple precautions when moving it in order to help ensure trouble-free operation. ■ Make sure all disk activity has ended before moving the computer - check that the HDD and other indicators on the front of the computer are off.

Page 62 Operating Basics User’s Manual 4-14...

Page 63: Chapter 5 The Keyboard

Chapter 5 The Keyboard The computer's keyboard layouts are compatible with a 104/105-key enhanced keyboard - by pressing some keys in combination, all of the 104/105-key enhanced keyboard functions can be performed on the computer. The number of keys available on your keyboard will depend on which country/region your computer is configured for, with keyboards being available for numerous languages.

Page 64: Function Keys: F1

Soft keys: FN key combinations The FN (function) is unique to TOSHIBA computers and is used in combination with other keys to form soft keys. Soft keys are key combinations that enable, disable or configure specific features.

Page 65: Hot Keys

The Keyboard Press FN + F10 or FN + F11 to access the computer's integrated keypad. When activated, the keys with grey markings on their bottom edge become either numeric keypad keys (FN + F11) or cursor control keys (FN + F10). Please refer to the Keypad overlay section in this chapter for more...

Page 66 The Keyboard Sleep: Pressing FN + F3 switches the system to Standby mode. Hibernate: Pressing FN + F4 switches the system to Hibernate mode. Output: Pressing FN + F5 changes the active display device. Brightness (Down): Pressing FN + F6 decreases the computer's display panel brightness in individual steps.

Page 67: Windows Special Keys

Volume up: Pressing FN + 4 to increase the volume in increment. FN Sticky key You can use the TOSHIBA Accessibility Utility to make the FN key sticky, that is, you can press it once, release it, and then press an "F Number"...

Page 68: Keypad Overlay

The Keyboard This key has the same function as the secondary (right) mouse button. Keypad overlay Your computer's keyboard does not have a separate numeric keypad but includes a numeric keypad overlay which functions like one - this is located in the center of the keyboard with the relevant keys having grey letters at their front edge.

Page 69: Generating Ascii Characters

The Keyboard Temporarily using normal keyboard (overlay on) While using the overlay, you can temporarily access the normal keyboard functions without having to turn the overlay off: 1. Hold FN and press any other key - this key will operate as if the overlay were off.

Page 70: Chapter 6 Power And Power-Up Modes

Chapter 6 Power and Power-up Modes The computer's power resources include the AC adaptor and internal batteries. This chapter gives details on making the most effective use of these resources including charging and changing batteries, tips for saving battery power, and power-up modes. Power conditions The computer's operating capability and battery charge status are affected by different power conditions, including whether an AC adaptor is...

Page 71: Power Indicators

Power and Power-up Modes Table 6-1 Power conditions continued Power on Power off (no operation) Battery charge • Operates adaptor is above low • LED: Battery amber battery trigger DC IN off connected point Battery charge • Operates is below low •...

Page 72: Battery Types

Power and Power-up Modes DC IN indicator Check the DC IN indicator to determine the power status with the AC adaptor connected - the following indicator conditions should be noted: Indicates the AC adaptor is connected and is Green correctly supplying power to the computer. Under any other conditions, the indicator does not No light light.

Page 73

Press <F1> to resume, <F2> to Setup. The computer's RTC battery is a lithium battery and should be replaced only by your dealer or by a TOSHIBA service representative. The battery can explode if not properly replaced, used, handled or disposed of.

Page 74: Care And Use Of The Battery Pack

The battery pack is lithium ion battery, which can explode if not replaced, used, handled or disposed of properly. Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. ■ Charge the battery pack only in an ambient temperature between 5 and 35 degrees Celsius.

Page 75

Power and Power-up Modes Use only the computer connected to an AC power source or the optional TOSHIBA Battery charger to charge the battery pack. Never attempt to charge the battery pack with any other charger. Time The following table shows the approximate time required to fully charge a discharged battery.

Page 76

Power and Power-up Modes Repeat these steps two or three times until the battery recovers normal capacity. Monitoring battery capacity Remaining battery power can be monitored in Power Options. ■ You should wait at least 16 seconds after turning on the computer before trying to monitor the remaining operating time.

Page 77

Power and Power-up Modes Retaining data with power off When you turn off your computer with fully charged batteries, the batteries retain data for the following approximate time periods. Retention Time Battery type State and Retention Time Battery pack 1 day for 6 cell, 0.5 day for 3 cell (Standby mode) 30 days for 3 cell / 6 cell (shut down mode)

Page 78: Replacing The Battery Pack

Power and Power-up Modes Replacing the battery pack Please be aware that the battery pack is classified as a consumable item. The operating life of the battery pack will gradually reduce through repeated charging and discharging, and will need to be replaced when it reaches the end of its operating life.

Page 79

Power and Power-up Modes 5. Slide the battery safety lock towards the release ( ) position to make the battery release latch movable. 1. Battery Pack 2. Battery safety lock Figure 6-1 Releasing the battery pack (1) 6. Slide and hold the battery release latch (1) to disengage the battery pack and then remove it from the computer (2).

Page 80

Power and Power-up Modes To install a battery, follow the steps as detailed below: 1. Insert the battery pack as far as it will go into the computer (1). 2. Ensure that the battery pack is securely in place and the battery safety lock (2) is in its position.

Page 81: Power-Up Modes

Power and Power-up Modes Power-up modes The computer has three power-up modes: ■ Boot: Computer shuts down without saving data. Always save your work before you turn the computer off in boot mode. ■ Hibernation: Data in memory is saved to the hard disk. ■...

Page 82: Chapter 7 Bios Setup And Passwords

Chapter 7 BIOS Setup and Passwords This chapter explains how to use BIOS to set up user and supervisor passwords. Accessing BIOS Setup Menu To start the utility, please press 'F2' to enter the BIOS Setup Menu when boot up the computer. BIOS Setup Menu When enter BIOS Setup Menu, please choice Security item then you can change or modify the User Password or

Supervisor Password.

Page 83 BIOS Setup and Passwords Password User Password / Supervisor Password Select Set User Password / Set Supervisor Password and press Enter, then the following message is shown: Set User Password Enter New Password Confirm New Password If there is an old password then setup will prompt with following window instead and a current password will be required to be entered at first: Set User Password Enter Current Password...

Page 84 BIOS Setup and Passwords To change the boot drive, follow the steps below. 1. Hold down F12 and boot the computer. 2. Use the up/down cursor keys to select boot device you want and press ENTER. ■ If a supervisor password is set, the menu above does not appear when you use the user password to start the computer.

Page 85 BIOS Setup and Passwords ■ When "USB Sleep and Charge function" is set to [Enabled], USB bus power (DC5V) will be supplied to compatible ports even when the power of the computer is turned OFF. USB bus power (DC5V) is similarly supplied to the external devices which are connected to the compatible ports.

Page 86 BIOS Setup and Passwords Enabled Enables the Wake-up on LAN.(Default) Disabled Disables the Wake-up on LAN. Do not install or remove an optional memory module while Wake-up on LAN is enabled. Wake-up on LAN does not work without the AC adaptor. Leave it connected, if you are using this feature.

Page 87: Chapter 8 Optional Devices

Chapter 8 Optional Devices Optional devices can expand the computer's capabilities and its versatility. This chapter describes the connection or installation of the following devices: To connect optional devices (such as USB device or External monitor) to the computer, be sure to check the shape and orientation of the connector before connecting.

Page 88: Bridge Media Slot

Optional Devices Bridge media slot The computer is equipped with a Bridge media slot that can accommodate some kinds of memory media with various memory capacities so that you can easily transfer data from devices, such as digital cameras and Personal Digital Assistants.

Page 89: Additional Memory Module

Optional Devices ■ The SD memory card logo is (■ The SDHC memory card logo is (■ The maximum capacity of SD memory cards is 2GB. The maximum capacity of SDHC memory cards is 16G. Card Type Capacities 8MB, 16MB, 32MB, 64MB, 128MB, 256MB, 512MB, 1GB, 2GB SDHC...

Page 90 Optional Devices ■ Use only memory modules approved by TOSHIBA. ■ Do not try to install or remove a memory module under the following conditions. a. The computer is turned on. b. The computer was shut down in either Sleep or Hibernation Mode.

Page 91 Optional Devices 3. Turn the computer upside down and remove one screw securing the RAM door. 1. RAM door Figure 8-2 Removing the memory module cover 4. Align the notch of the memory module with that of the memory module slot and gently insert the module into the slot at about a 45 degree angle before holding it down until the latches on either side snap into place.

Page 92 Optional Devices ■ Never allow metal objects, such as screws, staples and paper clips, to enter the computer or keyboard. Foreign metal objects can create a short circuit, which can cause computer damage and fire, possibly resulting in serious injury. ■...

Page 93: Battery Packs

Optional Devices 2. Turn the computer upside down and remove the battery pack (refer to Chapter 6, Power and Power-up Modes.) 3. Remove one screw securing the RAM door. 4. Lift off the RAM door. 5. Push the latches outward and the memory module will pop up. 6.

Page 94: External Monitor

Optional Devices External monitor An external analog monitor can be connected to the computer's external monitor port, with the computer supporting WSVGA video mode. In order to

connect a monitor, follow the steps as detailed below: 1. Connect the monitor cable to the external monitor port and tighten the screws on the left and right hand side of the connector as required.

Page 95 Optional Devices Connecting the security lock In order to connect a security cable to the computer, follow the steps as detailed below: 1. Turn the computer so its right hand side faces you. 2. Align the security cable with the 'lock hole' and secure it in place. 1.

Page 96: Troubleshooting

Chapter 9 Troubleshooting TOSHIBA designed the computer for durability. However, should problems occur, following the procedures in this chapter can help to determine the cause. All readers should become familiar with this chapter. Knowing what might go wrong can help prevent problems from occurring.

Page 97 Troubleshooting Preliminary checklist Consider the simplest solution first. The items in this checklist are easy to fix and yet can cause what appears to be a serious problem. ■ Make sure you turn on all peripheral devices before you turn on the computer.

Page 98: Hardware And System Checklist

When the computer starts up, the self-test will be run automatically, and the following will be displayed: TOSHIBA Leading Innovation>>> This message remains on the screen for a few seconds. If the self test is successful, the computer tries to load the operating system.

Page 99 Troubleshooting If any of the following conditions are present, the self test failed: ■ The computer stops and does not proceed to display information or messages. ■ Random characters appear on the screen, and the system does not function normally. ■...

Page 100 Troubleshooting Battery If you suspect a problem with the battery, check the DC IN connect and the battery indicator. For information on indicators and battery operation see Chapter 6, Power and Power-up Modes. Problem Procedure Battery doesn’t power The battery may be discharged - connect the AC the computer adaptor to recharge the battery.

Page 101 Troubleshooting Password Problem Procedure Cannot enter Refer to the Password section in Chapter 7, password BIOS Setup and Passwords. Keyboard Keyboard problems can be caused by your setup configuration. For more information refer to Chapter 5, The Keyboard Chapter 7, BIOS Setup and Passwords.

Page 102 Troubleshooting Hard disk drive Problem Procedure Computer does not Check if a diskette is in the diskette drive or a boot from hard disk CD/DVD is in the optical disc drive. Remove any drive diskette and/or CD/DVD and check Boot priority. Refer to Chapter 7, Boot Priority section.

Page 103 Troubleshooting Problem Procedure The mouse pointer Try changing the speed setting in the mouse moves too fast or too control utility. slow 1. Open the Control Panel and Printers and Other Hardware, select the Mouse icon and press Enter. 2. Click the Pointer Options tab. 3.

Page 104 Troubleshooting Problem Procedure 1. Open the Control Panel and Printers and Other Hardware, select the Mouse icon and press Enter. 2. Click the Buttons tab. 3. Set the double-click speed as instructed and click OK. The mouse pointer Try changing the speed setting in the mouse moves too fast or too control utility.

Page 105 Troubleshooting External Monitor Refer also to Chapter 8, Optional Devices, and to your monitor’s documentation. Problem Procedure Monitor does not turn Make sure that the external monitor’s power switch is on. Confirm that the external monitor’s power cable is plugged into a working power outlet.

Page 106 Troubleshooting Refer also to your USB device’s documentation. Problem Procedure USB device does not Check for a firm cable connection between the work USB ports on the computer and the USB device. Make sure the USB device drivers are properly installed.

Page 107 Troubleshooting Wireless LAN If the following procedures do not restore LAN access, consult your LAN administrator. For more information on wireless communication, refer

to Chapter 4, Operating Basics. Problem Procedure Cannot access Make sure the computer's wireless Wireless LAN communication service is turned on. If problems persist, consult your LAN administrator.

Page 108: Toshiba Support

Troubleshooting TOSHIBA support If you require any additional help using your computer or if you are having problems operating the computer, you may need to contact TOSHIBA for additional technical assistance. Before you call Some problems you experience may be related to software or the operating system so it is important that you investigate other sources of assistance first.

Page 109 Troubleshooting Where to write If you are still unable to solve theproblem and suspect that it is hardware related, write to TOSHIBA at the nearest location listed on the below. Outside of Europe Europe Australia Germany & Austria TOSHIBA Australia Pty. Ltd.

Page 110: Cpu

5°C to 30°C (41°F to 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model - please refer to your PC documentation or visit the Toshiba website at www.pcsupport.toshiba.com for details).

Page 111: Memory (Main System)

This is a normal phenomenon for all batteries. To purchase a new battery pack, see the accessories information that is shipped with your computer, or visit the Toshiba web site at www.pcsupport.toshiba.com. HDD drive capacity 1 Gigabyte (GB) means 10 = 1,000,000,000 bytes using powers of 10.

Page 112: Lcd

Disclaimers Over a period of time, and depending on the usage of the computer, the brightness of the LCD screen will deteriorate. This is an intrinsic characteristic of LCD technology. Graphics Processor Unit (GPU) Graphics processor unit (GPU) performance may vary depending on product model, design configuration, applications, power management settings and features utilized.

Page 113 Appendixes Table of Contents Specifications.....A-1 Appendix A Display Controller..... B-1 Appendix B Wireless LAN..... C-1 Appendix C AC Power Cord and Connectors.....D-1 Appendix D User's Manual Appendixes-1...

Page 114: Appendix A Specifications

Appendix A Specifications This appendix summarizes the computer's technical specifications. Physical Dimensions Size With Battery 263.0(w) x 192.3(d) X 18.5(front) x 25.4(Rear) millimeters (not including parts that extend beyond the main body) Without Battery 263.0(w) x 192.3(d) X 18.5(front) x 30.75(Rear) millimeters (not including parts that extend beyond the main body) Environmental requirements...

Page 115 Power Requirements AC adaptor 90-264 volts AC 50 or 60 hertz (cycles per second) Computer 19V DC User's Manual...

Page 116: Appendix B Display Controller

Appendix B Display Controller Display controller The display controller interprets software commands into hardware com- mands that turn particular pixels on or off. The controller is an advanced Video Graphics Array (VGA) that provides Super VGA (SVGA) and Extended Graphics Array (XGA) support for the internal LCD and external monitors.

Page 117: Appendix C Wireless Lan

Appendix C Wireless LAN This appendix is intended to help you get your Wireless LAN network up and running, with a minimum of parameters. Card Specifications ■ Mini Card Form Factor ■ IEEE 802.11 Standard for Wireless LANS Compatibility ■ Wi-Fi (Wireless Fidelity) certified by the Wi-Fi Alliance.

Page 118: Supported Frequency Sub-Bands

Subject to the radio regulations that apply in your country/region, your Wireless LAN card may

support a different set of 2.4 GHz channels. Consult your Authorized Wireless LAN or TOSHIBA Sales office for infor- mation about the radio regulations that apply in your country/region.

Page 119 Table Wireless IEEE 802.11 Channels Sets (Revision B and G) Frequency Range Channel ID 2400-2483.5 MHz 2412 2417 2422 2427 2432 2437 2442 2447 2452 2457* 2462 2467* 2472* When installing Wireless LAN cards, the channel configuration is managed as follows: ■...

Page 120: Appendix Dac Power Cord And Connectors

Appendix D AC Power Cord and Connectors The AC input plug of power cord must be compatible with various interna- tional AC power outlets. Power cords need to meet the local standards and the specifications listed as below: Length: Minimum 1.7 meters Wire size: Minimum 0.75 mm Current rating:...

Page 121: Certification Agencies

Certification agencies Europe: Austria: Italy: Belgium: CEBEC The Netherlands: KEMA Denmark: DEMKO Norway: NEMKO Finland: FIMKO Sweden: SEMKO France: LCIE Switzerland: Germany: United Kingdom: Outside of Europe: U.S. and Canada: UL listed and CSA certified No. 18 AWG, Type SVT or SPT-2 China: CCC, CQC India:...

Page 122 United Kingdom UL approved UL approved Australia Europe AS approved Approved by the appropriate agency Canada China AS approved CCC approved User’s Manual...

Page 123: Glossary

Glossary The terms in this glossary cover topics related to this manual. Alternate naming is included for reference. Abbreviations AACS: advanced access content system AC: Alternating current ACPI: Advanced Configuration and Power Interface ASCII: American Standard Code for Information Interchange BIOS: basic input/output system bps: bits per second CD: compact disc...

Page 124 Glossary IDE: integrated drive electronics IEEE: Institute of Electrical and Electronics Engineers I/O: input/output IrDA: Infrared Data Association IRQ: interrupt request KB: kilobyte LAN: local area network LCD: liquid crystal display LED: light emitting diode MB: megabyte MMC: multi media card OCR: optical character recognition (reader) PCB: printed circuit board PCI: peripheral component interconnect...

Page 125 Glossary analog signal: A signal whose characteristics such as amplitude and frequency vary in proportion to (are an analog of) the value to be transmitted. Voice communications are analog signals. application: A group of programs that together are used for a specific task such as accounting, financial planning, spreadsheets, word processing and games.

Page 126 Glossary byte: The representation of a single character. A sequence of eight bits treated as a single unit; also the smallest addressable unit within the system. cache memory: A section of very fast memory in which frequently used information is duplicated for quick access. Accessing data from cache is faster than accessing it from the computer's main memory.

Page 127 Glossary components: Elements or parts (of a system) which make up the whole (system). Composite Video (YUV): A standard video signal used to transmit images, e.g. from a VCR to a TV. computer program: A set of instructions written for a computer that enable it to achieve a desired result.

Page 128 Glossary Digital Audio: An audio compression standard that enables high-quality transmission and real-time playback of sound files. disk drive: The device that randomly accesses information on a disk and copies it to the computer°¶s memory. It also writes data from memory to the disk.

Page 129 (FDD): An electromechanical device that reads and writes to floppy diskettes. Fn-esse: A TOSHIBA utility that lets you assign functions to hot keys. folder: An icon in Windows used to store documents or other folders. format: The process of readying a blank disk for its first use. Formatting establishes the structure of the disk that the operating system expects before it writes files or programs onto the disk.

Page 130 Glossary gigabyte (GB): A unit of data storage equal to 1024 megabytes. See also megabyte. graphics: Drawings, pictures, or other images, such as charts or graphs, to present information. hard disk: A storage device composed of a rigid platter or platters that can be magnetically coded with data.

Page 131 Glossary I/O: Input/output. Refers to acceptance and transfer of data to and from a computer. I/O devices: Equipment used to communicate with the computer and transfer data to and from it. IrDA 1.1: An industry standard that enables cableless infrared serial data transfer at speeds of up to 4 Mbps.

Page 132 Glossary memory: Typically refers to the computer's main memory, where programs are run and data is temporarily stored and processed. Memory can be volatile and hold data temporarily, such as RAM, or it can be nonvolatile and hold data permanently, such as ROM. A computer's main memory is RAM.

Page 133 The electrical connection through which the computer sends and receives data to and from devices or other computers. Power Saver: A TOSHIBA utility that lets you set the parameters for various power-saving functions. program: A set of instructions a computer can execute that enables it to achieve a desired result.

Page 134 A Class A device is sufficient for office use. Class B provides a more stringent classification for home equipment use. TOSHIBA portable computers comply with Class B computing device regulations. Random Access Memory (RAM): Volatile memory that can be written to as well as read.

Page 135 TFT display: A liquid crystal display (LCD) made from an array of liquid crystal cells using active-matrix technology with thin film transistor (TFT) to drive each cell. Touch Pad: A pointing device integrated into the TOSHIBA computer palm rest. USB: Universal Serial Bus. This serial interface lets you communicate with several devices connected in a chain to a single port on the computer.

Page 136 Glossary window: A portion of the screen that can display its own application, document or dialog box. Often used to mean a Microsoft Windows window. Wireless LAN: Local Area Network (LAN) through wireless communication. write protection: A method for protecting a floppy diskette from accidental erasure.

Page 137: Index

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Page 139 Soft keys emulating keys on enhanced keyboard, 5-2 ENTER, 5-3 ScrLock, 5-3 Sound system, 1-5 Headphone (S/PDIF) jack, 1-5, 2-4 microphone, 2-9 microphone jack, 1-5, 2-4 TOSHIBA ConfigFree, 1-8 TOSHIBA Disc Creator, 1-9, 4-3 TOSHIBA support, 9-13 User’s Manual Index-3...

This manual is also suitable for:

Nb200 series