


User's Guide

Learn how to use your Fujitsu
LIFEBOOK T731 Tablet PC

Guide d'utilisation

Découvrez comment utiliser
votre PC Tablette
LIFEBOOK Fujitsu T731


FUJITSU

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your Fujitsu
LIFEBOOK T731
Tablet PC




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B6FJ-7081-02ENZ0-00

WARNING



HANDLING THE CORD ON THIS PRODUCT WILL EXPOSE YOU TO LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

WASH HANDS AFTER HANDLING.

USER GUIDE FOR WIRELESS BROADBAND CONNECTION



IF YOU HAVE THE OPTIONAL WIRELESS WAN (WWAN) DEVICE INSTALLED IN YOUR NOTEBOOK, THE WWAN USER'S GUIDE IS LOCATED AT:

[HTTP://SOLUTIONS.US.FUJITSU.COM/WWW/CONTENT/SUPPORT/MOBILE/SUPPORT_NOTICES](http://solutions.us.fujitsu.com/www/content/support/mobile/support_notices)

PLEASE CLICK "3G MINI-CARD GOBI3000 REGULATORY AND SAFETY INFORMATION" TO OPEN THE FULL USER GUIDE CONTAINING WARNINGS AND PRECAUTIONS ASSOCIATED WITH RF SAFETY WHEN USING THE WWAN DEVICE.



DECLARATION OF CONFORMITY

according to FCC Part 15

Responsible Party Name:	Fujitsu America, Inc.
Address:	1250 E. Arques Avenue, Sunnyvale, CA 94085
Telephone:	(408) 746-6000
Declares that product:	Base Model Configuration: LIFEBOOK T731 Tablet PC

Complies with Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC rules. Operations are subject to the following two conditions: (1) This device may not cause harmful interference, (2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT SAFETY INSTRUCTIONS

This unit requires an AC adapter to operate. Use only UL Listed I.T.E. Class II Adapters with an output rating of 19 VDC, with a current of 4.22 A (80 W).

AC adapter output polarity:



When using your Tablet PC equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- **CAUTION - HOT SURFACE:** The bottom of this Tablet PC computer can become hot when used for long periods of time. When using this Tablet PC, take caution to limit long term or continuous use while resting it on exposed skin, such as the lap.
- **CAUTION - REPLACEABLE BATTERIES:** Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries in accordance with manufacturer's instructions.
- Do not use this product near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For Authorized Repair Technicians Only



DANGER OF EXPLOSION IF LITHIUM (CLOCK) BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTION.



FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE AND RATING FUSE.

Recycling your battery

Over time, the batteries that run your mobile computer will begin to hold a charge for a shorter amount of time; this is a natural occurrence for all batteries. When this occurs, you may want to replace the battery with a fresh one*. If you replace it, it is important that you dispose of the old battery properly because batteries contain materials that could cause environmental damage if disposed of improperly.



Fujitsu is very concerned with environmental protection, and has enlisted the services of the Rechargeable Battery Recycling Corporation (RBRC)**, a non-profit public service organization dedicated to protecting our environment by recycling old batteries at no cost to you.

RBRC has drop-off points at tens of thousands of locations throughout the United States and Canada. To find the location nearest you, go to www.RBRC.org or call 1-800-822-8837.

If there are no convenient RBRC locations near you, you can also go to the EIA Consumer Education Initiative website (<http://EIAE.org/>) and search for a convenient disposal location.

Remember – protecting the environment is a cooperative effort, and you should make every effort to protect it for current and future generations.

- * To order a new battery for your Fujitsu mobile computer, go to the Fujitsu shopping site at www.shopfujitsu.com in the US or www.fujitsu.ca/products/notebooks in Canada.
- ** RBRC is an independent third party to which Fujitsu provides funding for battery recycling; RBRC is in no way affiliated with Fujitsu.



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Preface

About This Guide

The LIFEBOOK T731 Tablet PC from Fujitsu America is a powerful convertible computer. It can be used either as a standard notebook using keyboard input, or in tablet configuration using pen input. It is powered by the new 2nd Generation Intel® Core™ Processor, has a built-in color display with either an active digitizer or optional dual digitizer, and brings the computing power of desktop personal computers to a portable and versatile environment.

This manual explains how to operate your LIFEBOOK T731 Tablet PC's hardware and pre-installed system software.

Conventions Used in the Guide

Keyboard and on-screen keys appear in brackets. Example: [Fn], [F1], [ESC], [ENTER] and [CTRL].

Pages with additional information about a specific topic are cross-referenced within the text. For example: (“See [Installation Procedure on page 43](#)”). Note that all cross-references are linked to the referenced items, so by clicking the link, you will automatically go to the referenced item or page.

On-screen menu items appear in bold. Example: “Click **Fujitsu Menu**, and select your choice”.



THE INFORMATION ICON HIGHLIGHTS INFORMATION THAT WILL ENHANCE YOUR UNDERSTANDING OF THE SUBJECT MATERIAL.



THE CAUTION ICON HIGHLIGHTS INFORMATION THAT IS IMPORTANT TO THE SAFE OPERATION OF YOUR COMPUTER, OR TO THE INTEGRITY OF YOUR FILES. PLEASE READ ALL CAUTION INFORMATION CAREFULLY.



THE WARNING ICON HIGHLIGHTS INFORMATION THAT CAN BE HAZARDOUS TO EITHER YOU, YOUR LIFEBOOK TABLET PC, OR YOUR FILES. PLEASE READ ALL WARNING INFORMATION CAREFULLY.

Fujitsu Contact Information

Service and Support

You can contact Fujitsu Service and Support in the following ways:

- Toll free: 1-800-8Fujitsu (1-800-838-5487)
- Website: <http://www.computers.us.fujitsu.com/support>

Before you place the call, you should have the following information ready so that the customer support representative can provide you with the fastest possible solution:

- Product name
- Product configuration number
- Product serial number
- Purchase date

- Conditions under which the problem occurred
- Any error messages that have occurred
- Type of device connected, if any

Fujitsu Shopping Online

You can go directly to the online store by going to the website at: www.shopfujitsu.com.



YOU MUST HAVE AN ACTIVE INTERNET CONNECTION TO USE THE ONLINE URL LINKS.

Limited Warranty

Your LIFEBOOK T731 Tablet PC is backed by a Fujitsu International Limited Warranty. Check the service kit that came with your Tablet PC for the Limited Warranty period and terms and conditions.

Chapter 1

Getting to Know Your LIFEBOOK

Overview








This section describes the components of your Fujitsu LIFEBOOK T731 Tablet PC. We strongly recommend that you read it before using your Tablet PC – even if you are already familiar with Tablet PC computers.











Figure 1. Fujitsu LIFEBOOK T731 Tablet PC

Locating the Controls and Connectors

Connectors and peripheral interfaces on the LIFEBOOK T731 Tablet PC and the optional port replicator allow you to connect a variety of devices. Specific locations are illustrated in Figures 2 through 6. The table below provides a short description of each icon on the LIFEBOOK T731 Tablet PC and/or optional port replicator. Each of the icons is either molded into or printed on the Tablet PC or port replicator chassis.

Connection	Tablet PC Icon	Purpose
DC in connector		Connect an external power source such as the AC adapter or auto/airline adapter.
Security lock slot		The security slot allows you to secure the Tablet PC using compatible locking devices.
USB 2.0 Ports		Connect Universal Serial Bus 2.0 or 1.1 compliant devices to the USB 2.0 ports. For location of the specific ports, see the left-side and back panel illustrations later in this chapter.
USB 3.0 / Anytime USB Charge Port		Connect Universal Serial Bus 3.0, 2.0 or 1.1 compliant devices to the USB 3.0 port. The USB 3.0 port also has Anytime USB Charge capability, meaning that even when your system is shut down, this port can still be used to provide power to an external device. Note that the USB 3.0 port can also be recognized by the blue “tongue” in the port.
HDMI		The HDMI port allows you to connect compatible digital devices with your computer (such as a high-definition television or AV receiver).
Microphone/Line In Jack		Connect an external microphone. The internal microphone is disabled when you plug in an external microphone.
Headphone/Line Out Jack		Connect stereo headphones or powered external speakers. The internal speaker is disabled when you plug in external headphones or powered speakers.

Connection	Tablet PC Icon	Purpose
SD Card/ Memory Stick Slot		The Secure Digital (SD) card/Memory Stick slot allows you to insert a flash memory card for data storage. Flash memory cards allow you to transfer data to and from a variety of different digital devices.
Dock port		Connect the Tablet PC port replicator or other approved docking device. Refer to documentation accompanying the dock for more information.
Suspend/ Resume button		The Suspend/Resume button allows you to suspend Tablet PC activity without powering off, resume your Tablet PC from suspend mode, and power on the system when it has been shut down from Windows.
Local Area Network (LAN)		The LAN (RJ-45) jack is used to connect the internal 10/100/1000* Base-T/Tx Ethernet to a Local Area Network (LAN) in your office or home, or broadband devices such as a cable modem, DSL, or satellite Internet. *1000 Mbps, commonly referred to as Gigabit Ethernet.
Wireless Device On-Off Switch		The Wireless Device On-Off switch allows you to turn power to the optional wireless devices on and off.
External Video port		The external video port allows you to connect an external monitor or LCD projector to your computer.
Digital Video Interface		The DVI-D port on the optional port replicator allows you to connect a flat-panel LCD monitor or television that is equipped with a DVI-D port for ultra-crisp digital images and graphics.
IEEE1394 port		The IEEE 1394 jack allows you to connect IEEE 1394 (Firewire) devices such as digital video cameras and external hard drives to your Tablet PC.

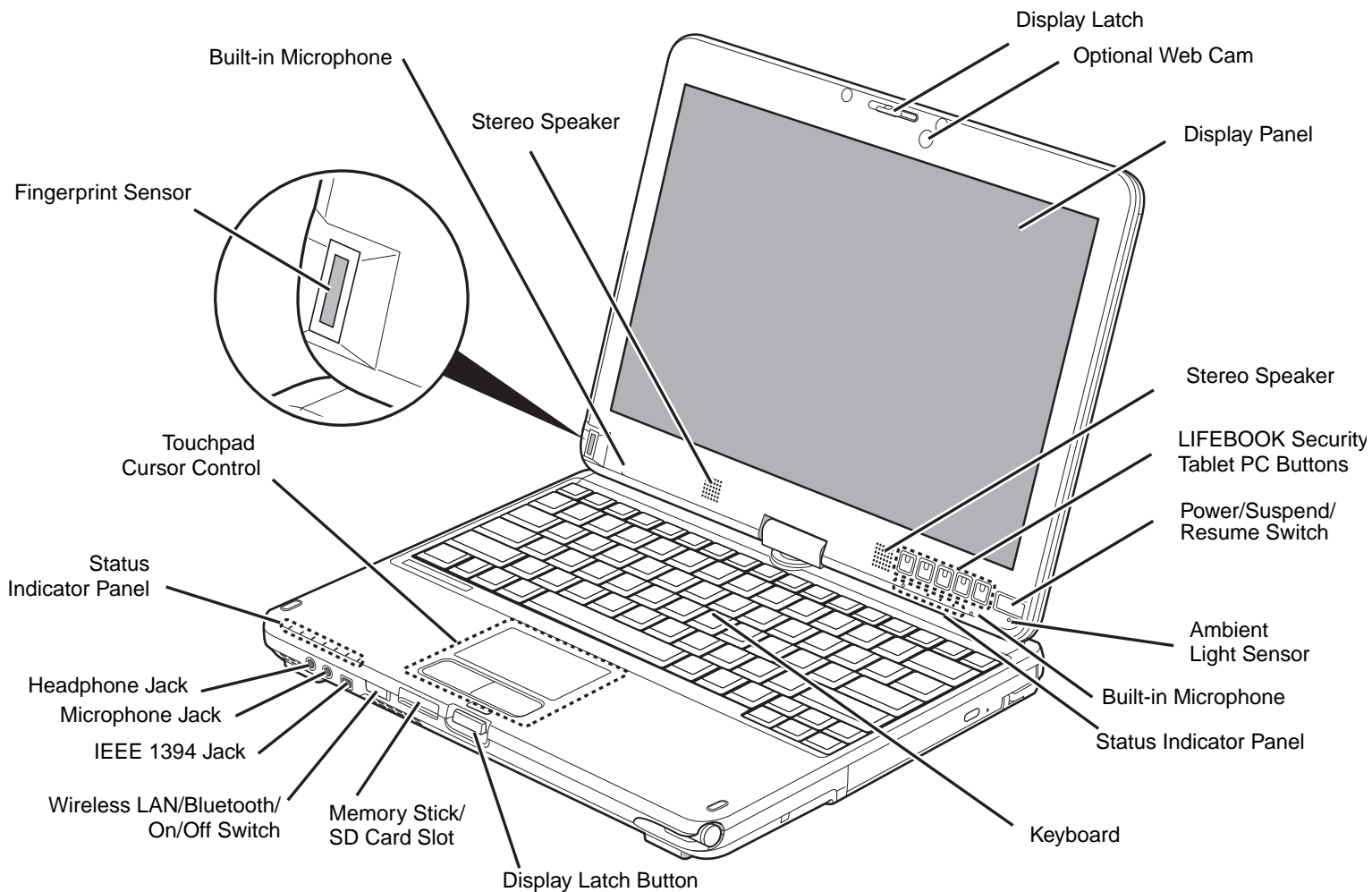


Figure 2. LIFEBOOK Tablet PC with display open

Top Components

The following is a brief description of your LIFEBOOK Tablet PC's top components.

Display Latch

The display latch is used to secure the tablet PC display when it is closed.

Web Camera

The optional 2.0 megapixel web cam can be used to take pictures of yourself to send over the internet.

Display Panel

The display panel is a color LED panel with backlighting for the display of text and graphics. There are two different displays available: an active digitizer that is used with a stylus, and a dual digitizer that can be used with either a stylus or your fingers.

Dual Stereo Speakers

The built-in dual speakers provide stereo sound.

LIFEBOOK Security/Tablet PC Buttons

The LIFEBOOK Security/Tablet PC Buttons provide password security for your system, as well as one-touch application launch capability. See “LIFEBOOK Security/Tablet PC Buttons” on page 57.

Power/Suspend/Resume Switch

The Power/Suspend/Resume switch allows you to suspend Tablet PC activity without powering off, resume your LIFEBOOK Tablet PC from sleep mode, and power on your Tablet PC when it has been shut down from Windows. See “Power/Suspend/Resume Switch” on page 77.

Ambient Light Sensor

The ambient light sensor measures the light in which the computer is operating and automatically adjusts the brightness of the display to suit the lighting conditions. See “Enabling/Disabling Ambient Light Sensor (Windows 7 only)” on page 37.

Status Indicator Panels

The Status Indicator Panels display symbols that correspond to specific components of your Tablet PC. Status indicators are located in two locations: on the left front edge of the system (system status indicators) and below the application buttons (button status indicators). See “Status Indicator Panel” on page 30.

Keyboard

A full-size keyboard with dedicated Windows keys. See “Keyboard” on page 39.

Display Latch Button

The display latch button allows you to unlatch the front of the display from the case.

Memory Stick/SD Card Slot

The Memory Stick/SD card slot allows you to install a Memory Stick or a Secure Digital (SD) card for data storage. This architecture allows you to transfer data from a variety of different digital devices. See “Installing Memory Stick/SD Cards” on page 88.

Wireless LAN/Bluetooth On/Off Switch

The wireless LAN/Bluetooth On/Off switch is used to turn on and off the optional wireless devices. Switching the device off when not in use will help to extend battery life. See “Activating the WLAN Device” on page 172.

IEEE 1394 (4-pin) Jack

The 4-pin 1394 jack is used to connect between your Tablet PC and an IEEE 1394 peripheral such as a digital video camera for fast file transfer. See “IEEE 1394 Port” on page 102.

Microphone Jack

The microphone jack allows you to connect an external mono microphone. See “Microphone Jack” on page 103.

Headphone Jack

The headphone jack allows you to connect headphones. See “Headphone Jack” on page 103.

Touchpad Pointing Device

The Touchpad pointing device is a mouse-like cursor control with a left and right button. See “Touchpad/Active Digitizer/Touchscreen” on page 42.

Fingerprint Sensor

The fingerprint sensor device allows you to log onto your system and password-protected websites and applications by swiping your finger over the sensor. See “Introducing the Fingerprint Sensor Device” on page 180.

Dual Built-in Microphones

The built-in microphones allows you to record voice and annotations.

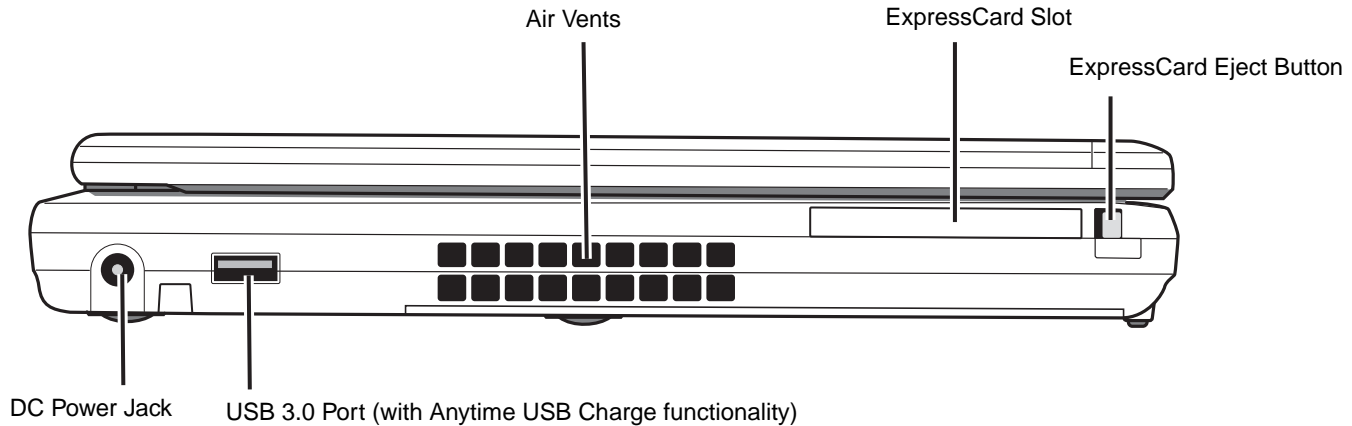


Figure 3. LIFEBOOK Tablet PC left-side panel

Left-Side Panel Components

The following is a brief description of your LIFEBOOK Tablet PC's left-side components.

DC Power Jack

The DC power jack allows you to plug in the AC adapter to power your LIFEBOOK Tablet PC and charge the internal Lithium ion battery.

USB 3.0 Port

The USB 3.0 port (on the left side of the system) allows you to connect Universal Serial Bus (USB) 3.0 devices. USB 3.0 transfers data at up to 5Gbps and is backward-compatible with USB 1.1 and 2.0 devices, which transfer data at up to 12 Mbps and 480 Mbps, respectively. Note that the USB 3.0 port has Anytime Charge capability, meaning you can charge an external device from this port, even when the system is powered down. See “Universal Serial Bus Ports” on page 101.

Air Vents

The air vents are used to cool the system to prevent overheating.



TO PROTECT YOUR TABLET PC FROM DAMAGE AND TO OPTIMIZE PERFORMANCE, BE SURE TO **KEEP ALL AIR VENTS UNOBSTRUCTED, CLEAN, AND CLEAR OF DEBRIS**. THIS MAY REQUIRE PERIODIC CLEANING, DEPENDING UPON THE ENVIRONMENT IN WHICH THE SYSTEM IS USED.

DO NOT OPERATE THE TABLET PC IN AREAS WHERE THE AIR VENTS CAN BE OBSTRUCTED, SUCH AS IN TIGHT ENCLOSURES OR ON SOFT SURFACES LIKE A BED OR CUSHION.

ExpressCard Slot

The ExpressCard Slot allows you to install an ExpressCard. See “ExpressCards” on page 89.

ExpressCard Eject Button

The ExpressCard eject button is used for removing an ExpressCard from the slot.

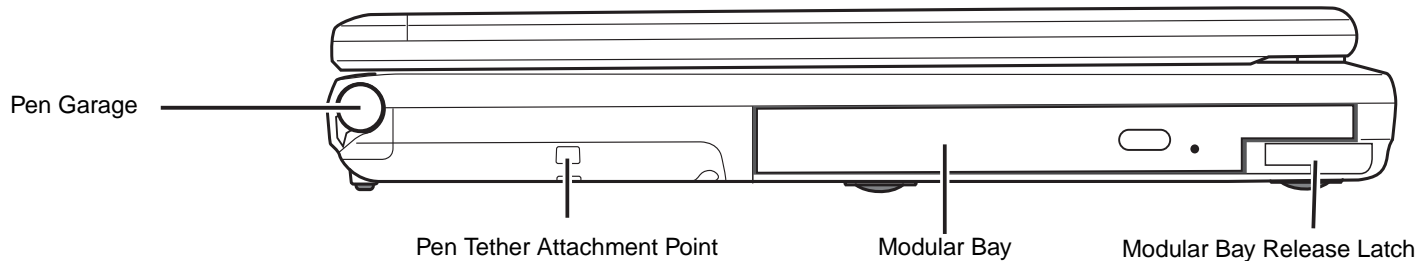


Figure 4. LIFEBOOK Tablet PC right-side panel

Right-Side Panel Components

The following is a brief description of your LIFEBOOK Tablet PC's right-side components.

Pen Garage

The pen garage is used to store the pen (also called a “stylus”) when not in use. The pen is used as the interface with the active digitizer display.

Modular Bay

The modular bay can accommodate one of the following devices. See “Modular Bay Devices” on page 54.

- Modular Dual-Layer Multi-Format DVD Writer
- Modular Blu-ray Triple Writer
- Modular bay battery
- Modular 2nd hard disk drive
- Weight Saver

Modular Bay Release Latch

The modular bay release latch is used to release the modular bay device from the modular bay.

Pen Tether Attachment Point

The pen tether attachment point is used to attach your pen to the system to prevent its loss.

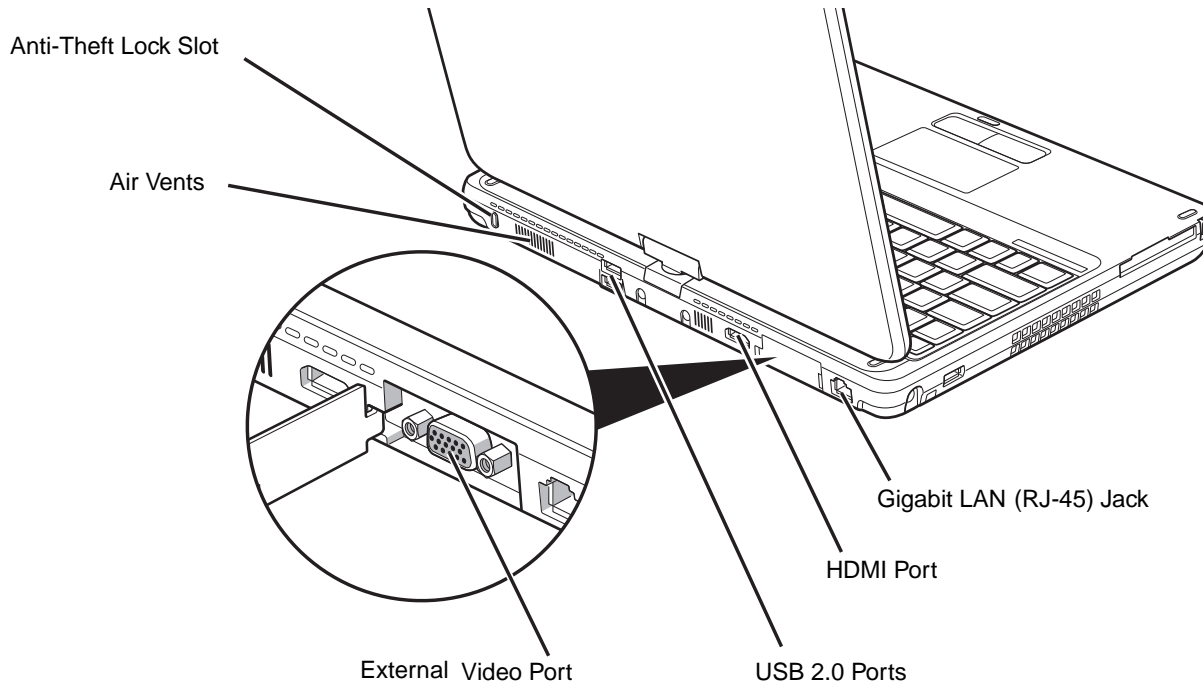


Figure 5. LIFEBOOK Tablet PC back panel

Back Panel Components

Following is a brief description of your LIFEBOOK Tablet PC's back panel components.

Anti-theft Lock Slot

The anti-theft lock slot allows you to attach an optional physical lock down device.

Air Vents

The air vents allow air to circulate through the system to cool down the components.



TO PROTECT YOUR TABLET PC FROM DAMAGE AND TO OPTIMIZE PERFORMANCE, BE SURE TO **KEEP ALL AIR VENTS UNOBSTRUCTED, CLEAN, AND CLEAR OF DEBRIS**. THIS MAY REQUIRE PERIODIC CLEANING, DEPENDING UPON THE ENVIRONMENT IN WHICH THE SYSTEM IS USED.

DO NOT OPERATE THE TABLET PC IN AREAS WHERE THE AIR VENTS CAN BE OBSTRUCTED, SUCH AS IN TIGHT ENCLOSURES OR ON SOFT SURFACES LIKE A BED OR CUSHION.

External Video Port

The external monitor port allows you to connect an external monitor or LCD projector. See “External Video Port” on page 104.

USB 2.0 Ports

The USB 2.0 ports allow you to connect Universal Serial Bus devices. USB 2.0 transfers data at up to 480Mbps and is backward-compatible with USB 1.1 devices, which transfer data at up to 12Mbps. See “Universal Serial Bus Ports” on page 101.

HDMI Port

The HDMI port is used to connect compatible digital devices with your computer (such as a high-definition television or AV receiver). See “HDMI Port” on page 104.

Gigabit LAN (RJ-45) Jack

The internal LAN (RJ-45) jack is used for an internal Gigabit (10Base-T/100Base-Tx/1000Base-T) Ethernet LAN connection. See “Internal LAN (RJ-45) Jack” on page 100.

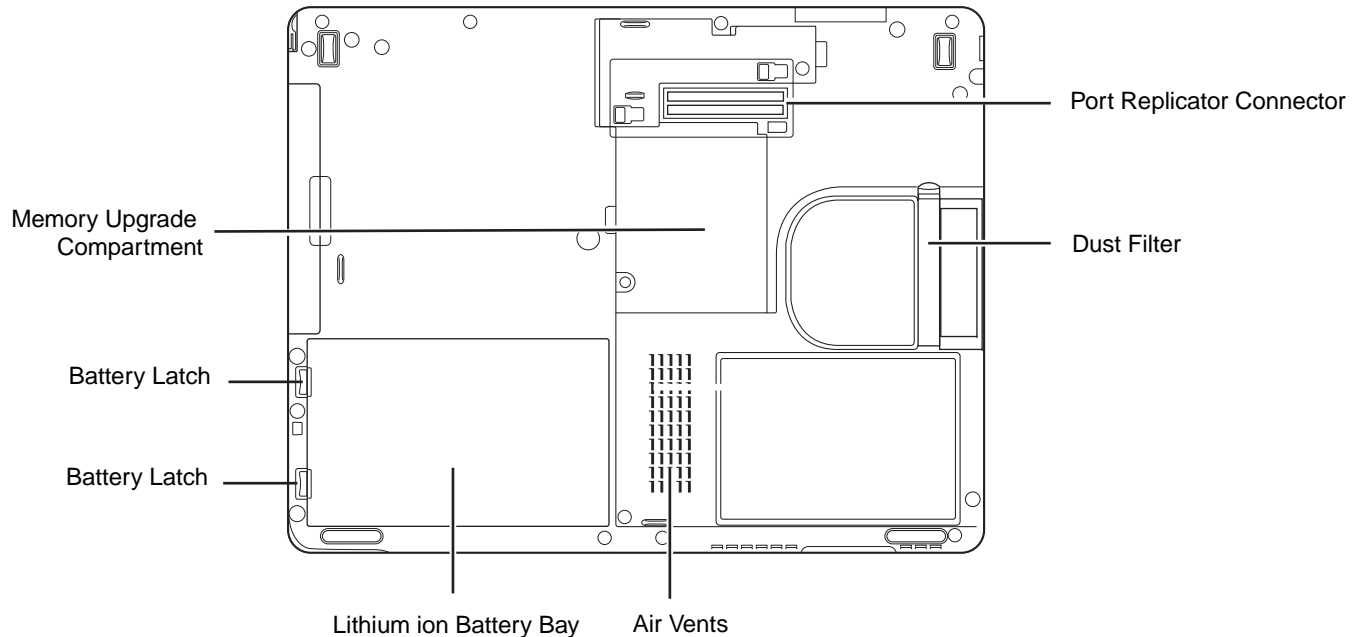


Figure 6. LIFEBOOK Tablet PC bottom panel

Bottom Components

The following is a brief description of your LIFEBOOK Tablet PC's bottom panel components.

Memory Upgrade Compartment

Your Tablet PC comes with high speed Double Data Rate 3 Synchronous Dynamic RAM (DDR3 1333 MHz SDRAM). The memory upgrade compartment allows you to expand the system memory capacity of your Tablet PC, thus improving overall performance. See “Memory Upgrade Module” on page 91. Under normal circumstances, it should not be necessary to open this compartment.

Port Replicator Connector

This connector allows you to connect the optional Port Replicator to your Tablet PC.

Dust Filter

The dust filter is used to help remove dust and dirt from your system. See “Cleaning the dust filter” on page 132.

Air Vents

The air vents allow air to circulate through the system to cool down the components.



TO PROTECT YOUR TABLET PC FROM DAMAGE AND TO OPTIMIZE SYSTEM PERFORMANCE, BE SURE TO **KEEP ALL AIR VENTS UNOBSTRUCTED, CLEAN, AND CLEAR OF DEBRIS.** THIS MAY REQUIRE PERIODIC CLEANING, DEPENDING UPON THE ENVIRONMENT IN WHICH THE SYSTEM IS USED.

DO NOT OPERATE THE TABLET PC IN AREAS WHERE THE AIR VENTS CAN BE OBSTRUCTED, SUCH AS IN TIGHT ENCLOSURES OR ON SOFT SURFACES LIKE A BED OR CUSHION.

Lithium ion Battery Bay

The battery bay contains the internal Lithium ion battery. It can be opened for the removal of the battery when stored over a long period of time or for swapping a discharged battery with a charged Lithium ion battery. See “Lithium ion Battery” on page 82.

Battery Latches

The battery latches are used to secure the Lithium ion battery in the battery bay.

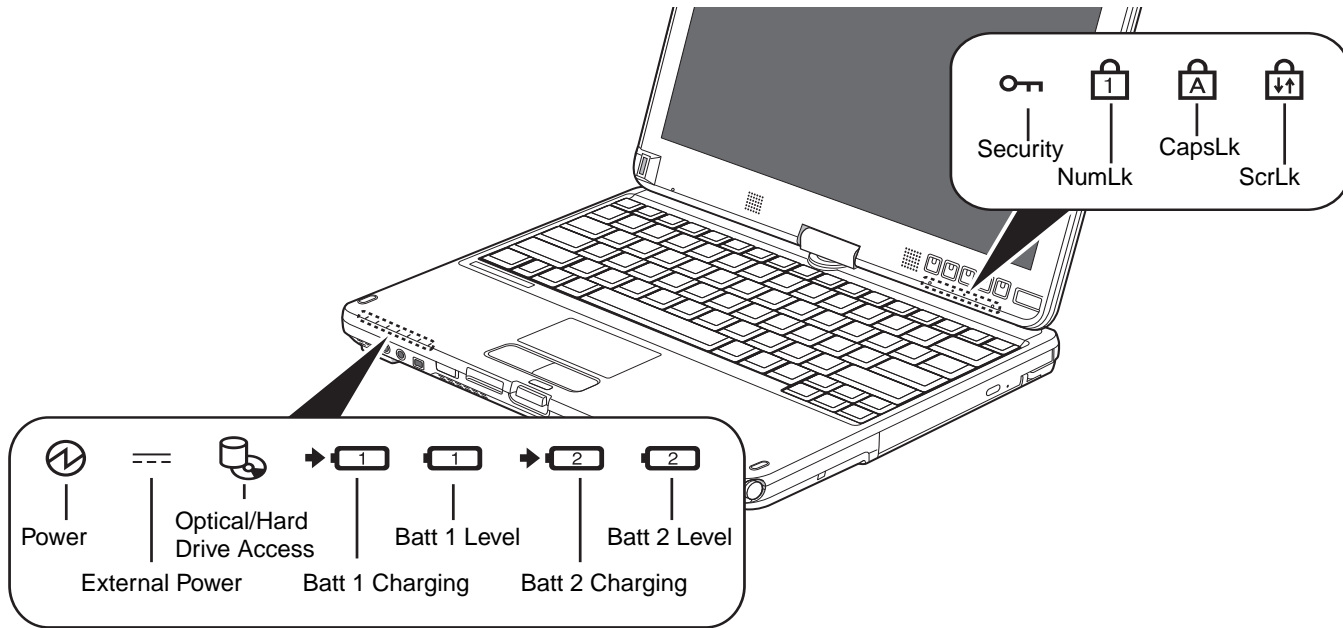


Figure 7. Status Indicator Panel

Status Indicator Panel

The Status Indicator Panel displays symbols and associated LEDs that correspond to specific components of your Tablet PC. These symbols tell you how each of those components is operating. (Figure 7)



Power Indicator

- The Power indicator symbol shows whether your system is operational. It has several different states, each of which tells you what mode your Tablet PC is in at that time.
- **Steady On:** This means that there is power to your Tablet PC and that it is ready for use.
- **Flashing:** This means that your Tablet PC is in Sleep mode.

- **Steady Off:** This means that your system is either in Hibernate mode, or that your Tablet PC has been turned off.

If you are charging your battery, the Power indicator symbol will remain on even if your LIFEBOOK Tablet PC is shut off.

External Power Indicator

The external power indicator shows whether your tablet is operating from the AC adapter, the auto/airline adapter or the batteries. This icon has two different states that can tell you what power source your LIFEBOOK Tablet PC is using.

- **On:** This means that either of the adapters are currently in use.
- **Off:** Power is only coming from the batteries, and you do not have an adapter connected. Even if the system was shut down from Windows, the External Power indicator symbol will remain on if you have an adapter connected.



Hard Drive/Optical Drive Access Indicator

The Hard Drive/Optical Drive Access indicator shows whether your internal hard drive or optical drive is being accessed.

→ **Battery Charging Indicators**

The Battery Charging and Battery Level indicators state whether the Lithium ion battery (Battery 1) or the optional modular battery (Battery 2) are installed and charging.

Battery Level Indicator

The Battery Level indicators display the charge level of the indicated battery pack, as follows:

- **Green, solid:** Battery is between 50% and 100% charged.
- **Orange, solid:** Battery is between 13% and 49% charged.

- **Red, solid:** Battery is between 0% and 12% charged.
- **Orange, blinking:** Blinks during battery status measurement (Four seconds after the battery is installed).
- **Red, blinking:** There is a problem with the battery.
- **Off:** There is no battery installed.



- If the battery pack is installed while the power is turned off, the battery level indicator will display the charge level for five seconds after it blinks orange.
- If the AC adapter is not connected or the battery pack is not fully charged when the computer is switched to sleep mode, the indicator will blink. The LED blinks at the rate of one second on/five seconds off.



- Batteries subjected to shocks, vibration or extreme temperatures can be permanently damaged.
- A shorted battery is damaged and must be replaced.

Security Indicator

The Security Indicator flashes (if a password was set) when the system resumes from Off or Sleep modes. You must enter the password that was set in the Security Panel before your system will resume operation.



NumLk Indicator

The NumLk indicator glows green when the integrated keyboard is set in ten-key numeric keypad mode.



CapsLock Indicator

The CapsLock indicator glows green when your keyboard is set to type in all capital letters.



ScrLk Indicator

The ScrLk indicator glows green when your scroll lock is active.

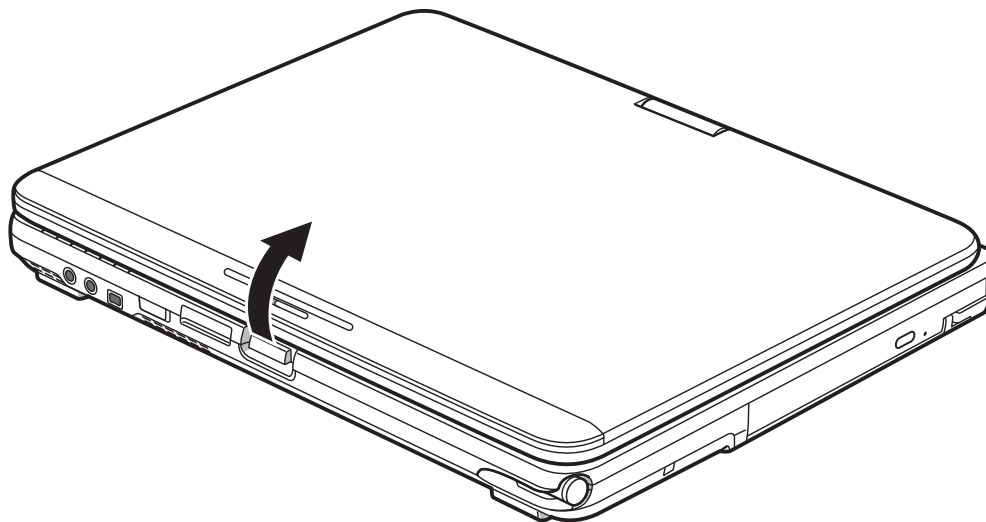


Figure 8. Opening the Display Panel

Display Panel

Your LIFEBOOK T731 Tablet PC contains an LED display panel that is backlit for easier viewing in bright environments. The convertible design of your Tablet PC allows you to open the display fully, rotate it in either direction 180 degrees, and lay it face up on the keyboard. This allows you to use the system as a tablet, much as you would a pad of paper.

Opening the Display Panel

Press the display latch to release it, then lift the display backwards, being careful not to touch the screen with your fingers, until it is at a comfortable viewing angle. (Figure 8)

Using the System as a Tablet

If you would like to use the system as a tablet, perform the following steps.



- The display can be rotated in either direction, but when returning the system to notebook mode, be sure to turn it back to its original position (i.e., the reverse of how you turned it when you opened it. Turning the display in the incorrect direction could cause hinge damage. The screen should rotate easily; if it does not rotate easily, you are probably attempting to turn it in the wrong direction.
- In the following step, be sure to position the display perpendicular to the keyboard, otherwise the keyboard or display cover could get scratched.
- It is important to note that no matter which mode your tablet is in, the latch should always be engaged to prevent damage to it.

- 1** Press the latch button and lift the display until it is perpendicular to the keyboard. (Figure 10).
- 2** When the display is perpendicular to the keyboard, rotate it 180 degrees in either direction (Figure 11) so that it is facing backwards.
- 3** Holding the top edge of the display panel, pull it forward until it is lying nearly atop the keyboard.
- 4** Push the latch towards the display (See “A” in Figure 9). The latch will pivot so the top latch disappears, and the bottom latch appears (See “B” in Figure 9). Holding the latch down, lay the display flush against the system so that the latch engages. You can now use your system as a tablet. (Figure 12)

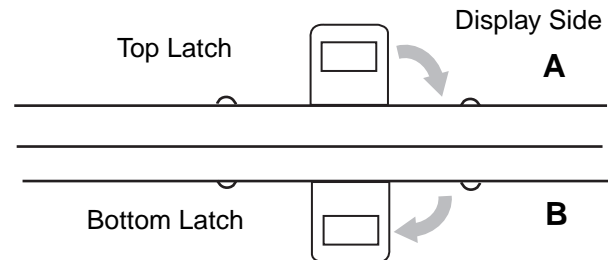


Figure 9. Latching/unlatching

To return the system to notebook configuration:

- 1** Press the latch button and lift the display until it is perpendicular to the keyboard.

- 2 When the display is perpendicular to the keyboard, rotate it 180 degrees in either direction so that it is facing forward.



Figure 10. Fully Open Display

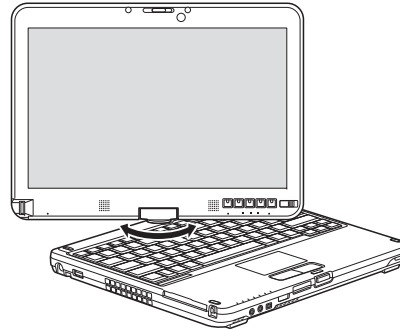


Figure 11. Rotating Display

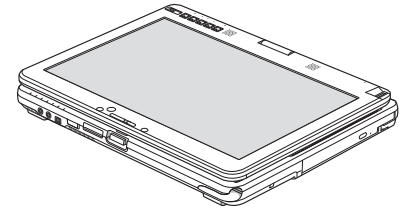


Figure 12. Tablet Mode

Holding the Tablet PC

Your LIFEBOOK T731 Tablet PC can be held in any of four orientations, depending upon how you would like to use it. There are primary and secondary landscape orientations and primary and secondary portrait orientations. When you rotate the system using the Rotation button, the order in which it rotates is illustrated below.

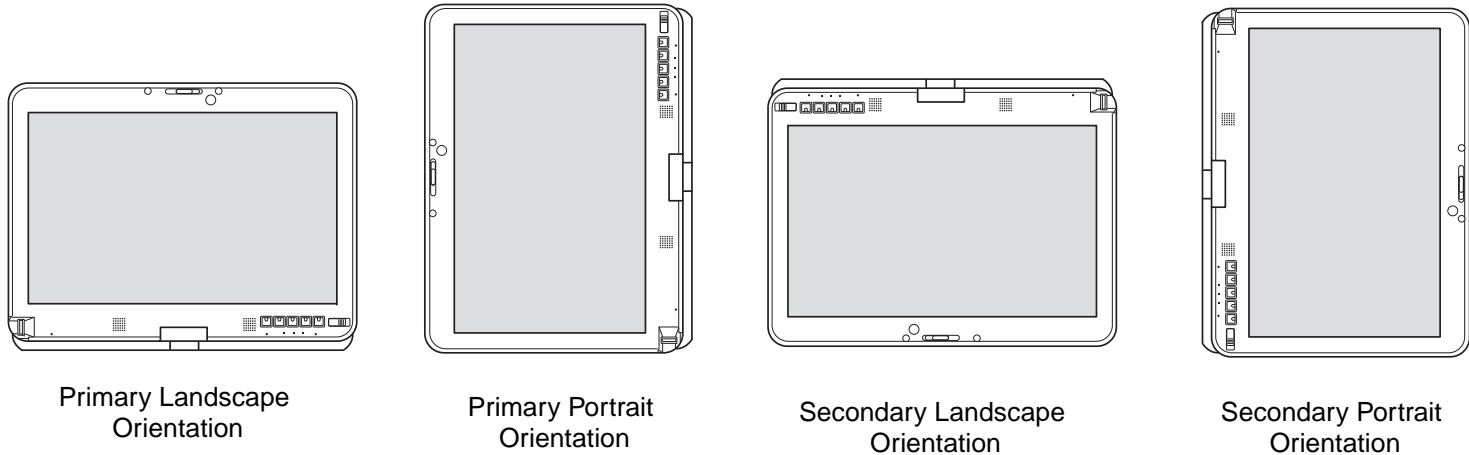


Figure 13. Orientations for Tablet PC in Tablet Mode

Adjusting Display Panel Brightness

Once you have turned on your Tablet PC, you may want to adjust the brightness level of the screen to a more comfortable viewing level. There are three ways to adjust the brightness: keyboard, power management utility, and Fujitsu Menu.

Using Keyboard to Adjust Brightness

Adjusting the brightness using the keyboard changes the system setting (i.e., the settings you make via the function keys automatically changes the brightness settings in the system's Pen and Tablet Settings).

- [Fn+F6]: Pressing repeatedly will lower the brightness of your display.
- [Fn+F7]: Pressing repeatedly will increase the brightness of the display.

Note that changing the brightness with the [Fn] key is temporary. When you resume or restart, you will need to reset them if you used this method.

Using Power Management to Adjust Brightness (Windows 7)

Windows 7: To adjust brightness with the power management utility in Windows 7:

Click Start -> **Control Panel**. In **View by:**, select one of the icon views. Select **Display**, then click **Adjust brightness** in the left pane. Under **Select a power plan**, select the plan settings you want to use. Drag **Screen brightness:** bar to the left or right, depending on your preference.

Using the Fujitsu Menu to Adjust Brightness

To adjust brightness using the Fujitsu menu, click on the Fujitsu Menu icon in the system tray in the lower right corner of the screen. Double-click Windows Mobility Center, then double-click the icon adjacent to **Display brightness**. Set the screen brightness sliders for **On battery** and **Plugged in** scenarios.



IF USING AC POWER, YOUR BRIGHTNESS SETTING IS SET TO ITS HIGHEST LEVEL BY DEFAULT. IF USING BATTERY POWER, YOUR BRIGHTNESS SETTING IS SET TO APPROXIMATELY MID-LEVEL BY DEFAULT.

THE HIGHER THE BRIGHTNESS, THE MORE POWER THE SYSTEM WILL CONSUME AND THE FASTER YOUR BATTERIES WILL DISCHARGE. FOR MAXIMUM BATTERY LIFE, SET THE BRIGHTNESS AS LOW AS POSSIBLE.

Enabling/Disabling Ambient Light Sensor (Windows 7 only)

Systems which are running the Windows 7 operating system have an ambient light sensor (just below the Power/Suspend/Resume switch) that automatically senses the light conditions in which the computer is operating. If the lighting is very bright, the brightness of the LCD will increase to make it easier to see the display. Conversely, if it is used in a darkened room, the display will automatically dim.



NOTE THAT WHEN YOU FIRST START YOUR SYSTEM, THE AMBIENT LIGHT SENSOR IS DISABLED. YOU WILL INITIALLY NEED TO ENABLE IT USING THE FOLLOWING STEPS.

The light sensor can be enabled or disabled from the Control Panel as follows:

- 1** Open the system Control Panel and click in the **View by:** field, select either large or small icons.
- 2** Click on the **Location and Other Sensors** icon.
- 3** To enable or disable the Light Sensor utility, check or uncheck the box in the Enabled column.

- 4 For more information about the light sensor, click on **Light Sensor** icon in the Sensor column to the right of the light sensor icon to open the Sensor Properties window.
- 5 From the Sensor Properties window, you can change the sensor's description, uninstall the sensor, or enable or disable selected users.
 - To change the sensor's description, click the [Change description] button, enter the new description, and click the [OK] button.
 - To limit who can access the sensors, click **Change who can access sensors**, then check or uncheck the box adjacent to the individual you would like to grant or prohibit access.
 - To uninstall the sensor, click **Uninstall this sensor**.

Keyboard

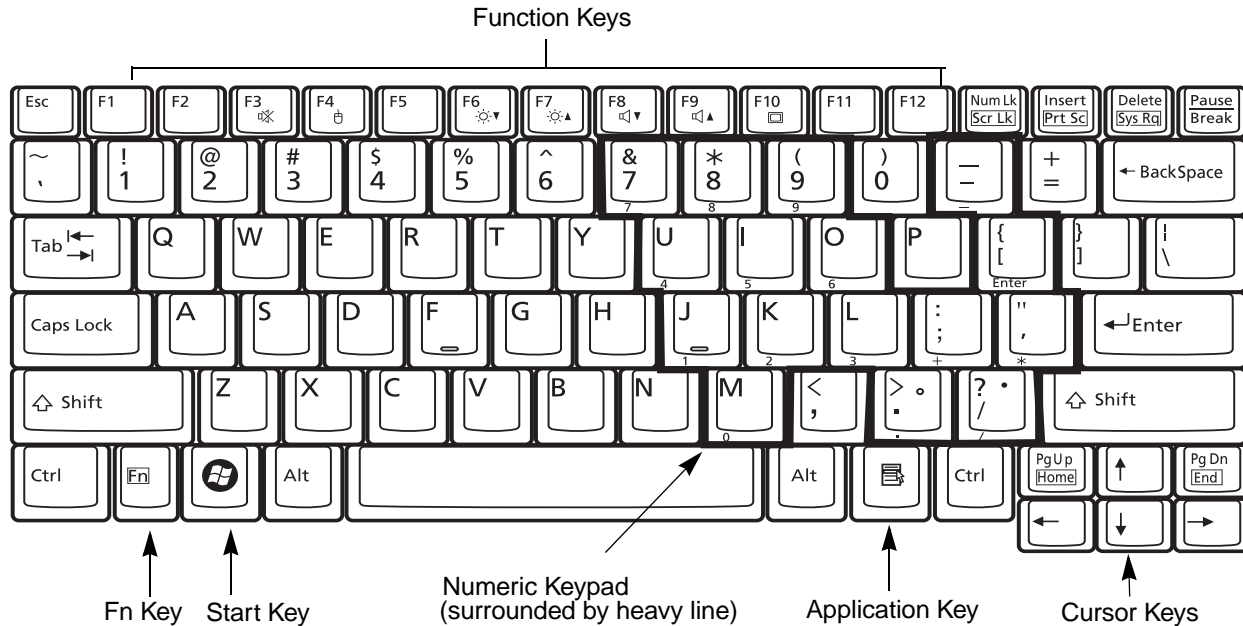


Figure 14. Keyboard

Using the Keyboard

Your Fujitsu LIFEBOOK Tablet PC has an integral anti-microbial 84-key keyboard. The keys perform all the standard functions of a 101-key keyboard, including the Windows keys and other special function keys.



The anti-microbial keyboard used in select models of the Fujitsu LIFEBOOK contains an inorganic silver ion agent that is highly effective in attacking microbes and bacteria and inhibiting their growth. This agent has proven to have a high antimicrobial effect against a wide spectrum of harmful microbes, bacteria, and fungi.

This section describes the following keys (Figure 14):

- **Numeric keypad:** Your Tablet PC allows certain keys to serve dual purposes, both as standard characters and as numeric and mathematical keys. The ability to toggle between the standard character and numerical keys is controlled through the [NumLk] key.
- **Cursor keys:** Your keyboard contains four arrow keys for moving the cursor or insertion point to the right, left, up, or down within windows, applications and documents.
- **Function keys:** The keys labeled [F1] through [F12], are used in conjunction with the [Fn] key to produce special actions that vary depending on what program is running.
- **Windows keys:** These keys work with your Windows operating system and function the same as the onscreen Start menu button, or the right button on your pointing device.

Numeric Keypad

Certain keys on the keyboard perform dual functions as both standard character keys and numeric keypad keys. NumLk can be activated by pressing the [NumLk] keys. Turning off the NumLk feature is done the same way. Once this feature is activated you can enter numerals 0 through 9, perform addition (+), subtraction (-), multiplication (*), or division (/), and enter decimal points (.) using the keys designated as ten-key function keys. The keys in the numeric keypad are marked on the front edge of the key to indicate their secondary functions.

Windows Keys

Your LIFEBOOK Tablet PC has two Windows keys, consisting of a Start key and an Application key. The Start key displays the Start menu. This button functions the same as your onscreen Start menu button. The Application key functions the same as your right mouse button and displays shortcut menus for the selected item. (Please refer to your Windows Help and Support documentation in the Start menu for additional information regarding the Windows keys.)

Cursor Keys

The cursor keys are the four arrow keys on the keyboard which allow you to move the cursor up, down, left and right in applications. In programs such as Windows Explorer, it moves the “focus” (selects the next item up, down, left, or right).

Function Keys

Your LIFEBOOK Tablet PC has 12 function keys, F1 through F12. Functions assigned to these keys differ for each application. You should refer to your software documentation to find out how these keys are used.

- The [Fn] key provides extended functions for the Tablet PC and is always used in conjunction with another key.
- [Fn+F3]: Pressing [F3] while holding [Fn] will toggle the Audio Mute on and off.
- [Fn+F4]: Pressing [F4] while holding [Fn] will toggle the Quick Point feature on and off. Note that the [Fn+F4] combination only works if Manual Setting is selected in the BIOS. (See “BIOS Setup Utility” on page 73)
- [Fn+F6]: Pressing [F6] repeatedly while holding [Fn] will lower the brightness of your display.
- [Fn+F7]: Pressing [F7] repeatedly while holding [Fn] will increase the brightness of the display.
- [Fn+F8]: Pressing [F8] repeatedly while holding [Fn] will decrease the volume of your Tablet PC.
- [Fn+F9]: Pressing [F9] repeatedly while holding [Fn] will increase the volume of your Tablet PC.
- [Fn+F10]: Pressing [F10] while holding [Fn] allows you to change your selection of where to send your display video. The order is determined by which type of external video device(s) is connected. Each time you press the key combination, you will step to the next choice.
 - If you only have an external CRT connected, the order is: internal display -> external CRT -> simultaneous display -> internal display.
 - If you only have an HDMI device connected, the order is: internal display -> HDMI display -> simultaneous display -> internal display.
 - If you have external CRT and HDMI devices connected, the order is: internal display -> external CRT -> simultaneous internal and external CRT -> HDMI display - simultaneous internal and HDMI display -> internal display.
 - If you have an external CRT and DVI devices connected to the port replicator, the order is: internal display -> external CRT -> simultaneous internal and external CRT -> DVI display -> simultaneous internal and DVI display. -> internal display.

Touchpad/Active Digitizer/Touchscreen

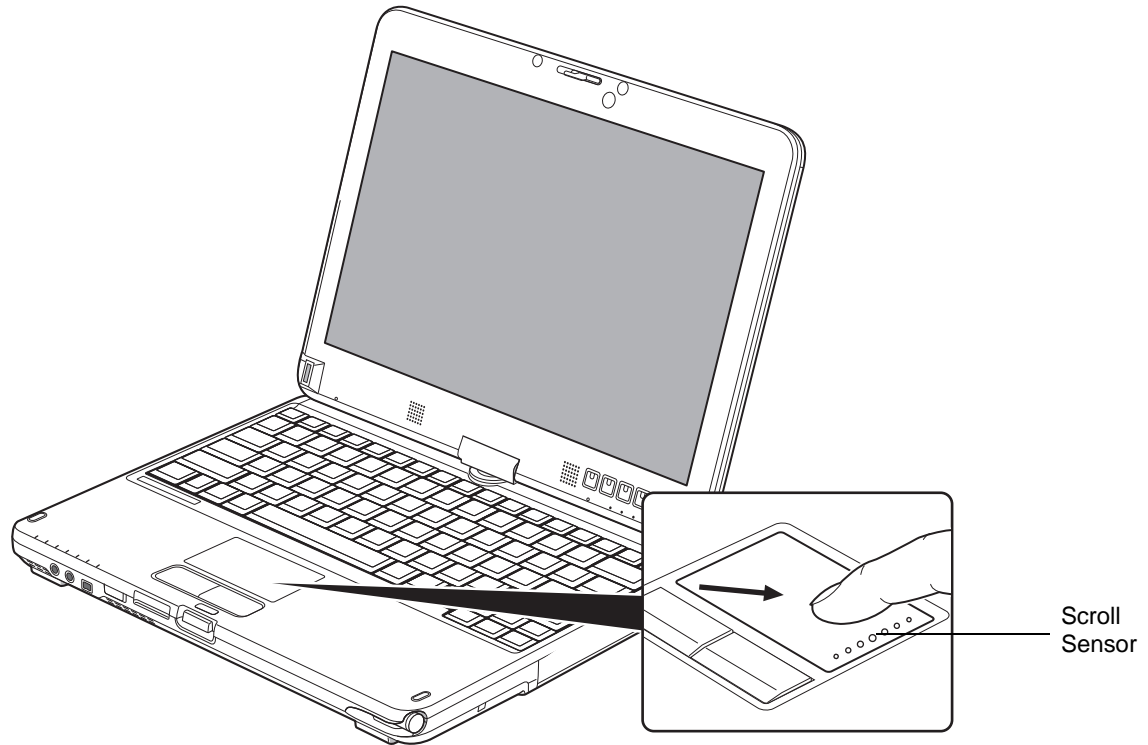


Figure 15. Touchpad pointing device

Using the Touchpad

The touchpad is built into your LIFEBOOK Tablet PC. It is used to control the movement of the cursor to select items on your display panel. The touchpad is composed of a cursor control below the center of the keyboard, two buttons below it, and a scroll sensor on the right edge of the cursor control. The left button functions the same as a left mouse button while the right button has the same function as a right mouse button. When used with the cursor control, the scroll sensor allows you to scroll up and down a screen. The actual functionality of the buttons may vary depending on the application that is being used.

Clicking

Clicking means pushing and releasing a button. To left-click, move the cursor to the item you wish to select, press the left button once, and then immediately release it. To right-click, move the mouse cursor to the item you wish to select, press the right button once, and then immediately release it. You also have the option to perform the clicking operation by tapping lightly on the touchpad once.

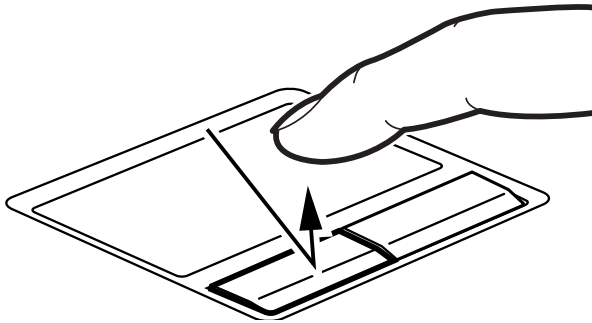


Figure 16. Clicking with button

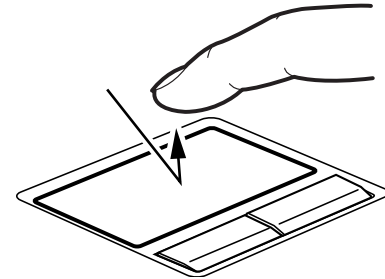


Figure 17. Clicking with Touchpad

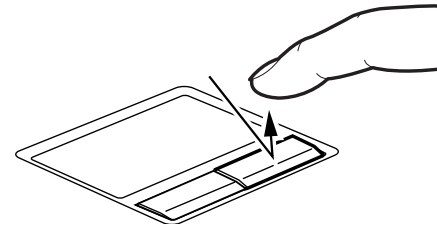


Figure 18. Right-clicking with button

Double-Clicking

Double-clicking means pushing and releasing the left button twice in rapid succession. This procedure does not function with the right button. To double-click, move the cursor to the item you wish to select, press the left button twice, and immediately release it. You can also perform the double-click operation by tapping lightly on the Touchpad twice.

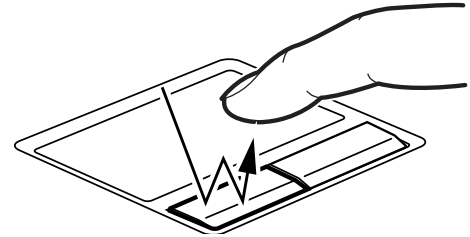


Figure 19. Double-clicking with button

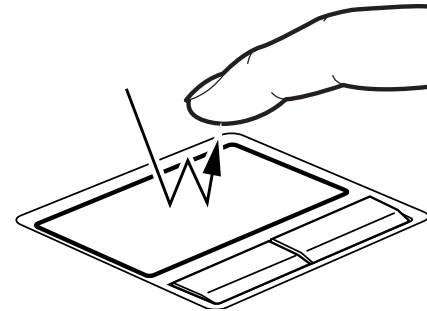


Figure 20. Double-clicking with Touchpad



- IF THE INTERVAL BETWEEN CLICKS IS TOO LONG, THE DOUBLE-CLICK WILL NOT BE EXECUTED.
- PARAMETERS FOR THE TOUCH PAD CAN BE ADJUSTED FROM THE MOUSE DIALOG BOX LOCATED IN THE WINDOWS CONTROL PANEL.

Dragging

Dragging means pressing and holding the left button, while moving the cursor. To drag, move the cursor to the item you wish to move. Press and hold the left button while moving the item to its new location and then release it. Dragging can also be done using the Touchpad. First, tap the Touchpad twice over the item you wish to move making sure to leave your finger on the pad after the final tap. Next, move the object to its new location by moving your finger across the Touchpad, and then release your finger.

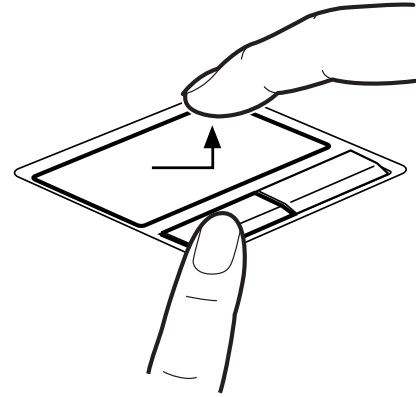


Figure 21. Dragging with button

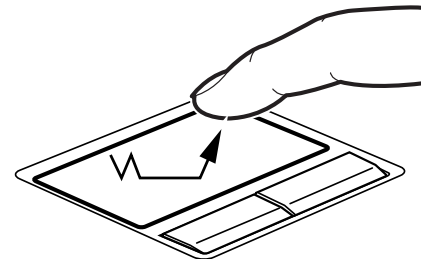


Figure 22. Dragging with Touchpad

Scrolling

Using the scrolling strip allows you to navigate through a document quickly without using the window's scroll bars. This is particularly useful when you are navigating through on-line pages. To scroll, slide your finger up and down the scroll strip on the right side of the cursor control pad.

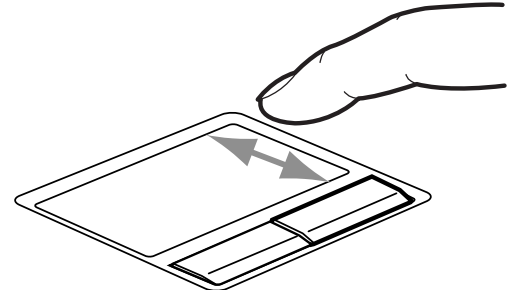


Figure 23. Scrolling with the Scroll Strip

Touchpad Control Adjustment

The Windows Control Panel allows you to customize your touchpad with selections made from within the Mouse Properties dialog box. There are three aspects of operation which you can adjust:

- **Buttons:** This tab lets you set up the buttons for right or left handed operation, in addition to setting up the time interval allowed between clicks in double-clicking.
- **Pointers:** This tab lets you set up the scheme for the cursor depending on its functionality.
- **Pointer Options:** This tab lets you set up a relation between the speed of your finger motion and the speed of the cursor. It also allows you to enable a Pointer Trail for the cursor arrow.

Active Digitizer Display

NOTE: Depending upon your system configuration, in addition to the active digitizer, you may also have a capacitive touch panel that responds to finger touch and touch gestures. (This configuration is called a “Dual Digitizer”.) For more information about the touchscreen, refer to “Using the Optional Capacitive Touchscreen” on page 51.

The integrated active digitizer allows you to use the included stylus as a pointing device. You can use the stylus to click, double-click, drag items and icons, write text, or to draw like a pen or pencil in applications that support this behavior, such as drawing or painting programs. See the documentation that came with your application for details.

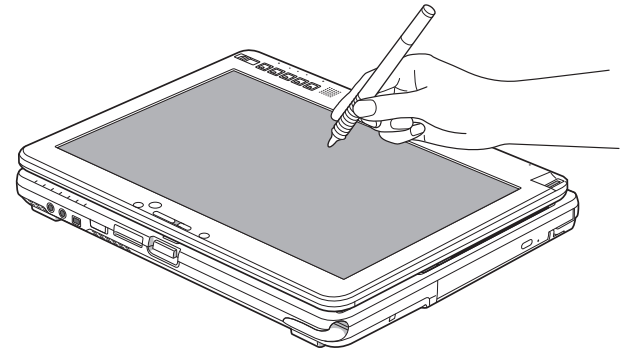


Figure 24. Using the Active Digitizer Display



- **DO NOT USE EXCESSIVE FORCE** WHEN TAPPING OR WRITING ON THE SCREEN WITH THE STYLUS. EXCESSIVE FORCE COULD RESULT IN DAMAGE TO THE LED AND/OR ACTIVE DIGITIZER.
- TO PURCHASE ADDITIONAL OR REPLACEMENT STYLUSES, VISIT FUJITSU’S ACCESSORIES WEBSITE AT: WWW.SHOPFUJITSU.COM.

Clicking on Active Digitizer Display

To left-click, touch the object you wish to select and then lift the stylus tip immediately.

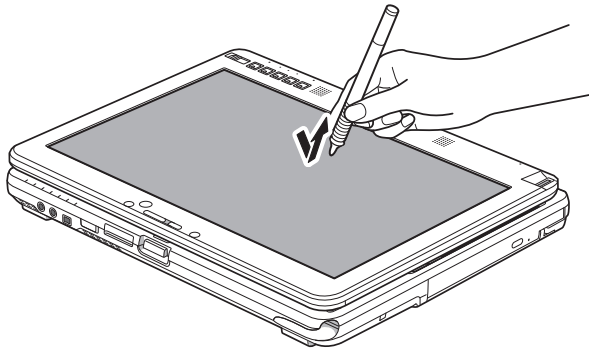
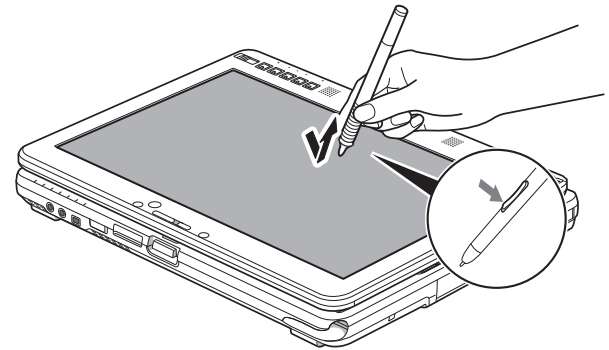


Figure 25. Clicking on the Active Digitizer Display



**Figure 26. Right-clicking Active Digitizer
Right-Clicking on Active Digitizer**

Right-click can be accomplished by holding the front of the toggle button down while tapping on the screen. To change the settings for the right-click feature, go to Start -> Control Panel -> Pen and Touch. In the Pen Options tab, select “Press and Hold” then click the [Settings] button.

Double-Clicking

To double-click, touch the item twice, and then immediately remove the stylus tip.



Figure 27. Double-clicking the Display

Dragging

Dragging means moving an item with the stylus by touching the screen, moving and then lifting the stylus. To drag, touch the Active Digitizer Display with your stylus on the item you wish to move. While continuing to touch the screen with the stylus, drag the item to its new location by moving the stylus across the screen, and then lifting the stylus to release it.

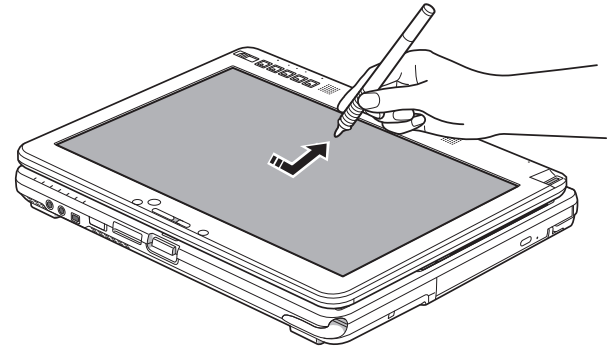


Figure 28. Dragging on the Display

Calibrating the Active Digitizer Display

In order to ensure accurate tracking between the stylus and cursor, you must run the Calibration Utility before you use the system for the first time, or after you change the display resolution.

To run the calibration utility in Windows 7:

- 1 Go to Start -> Control Panel.
- 2 Double-click the Tablet PC Settings icon and select the Display tab
- 3 Click the [Calibrate] button.
- 4 Adjust the display of your Tablet PC to a comfortable angle and find the (+) symbol in the upper-left corner of the display.



DO NOT USE EXCESSIVE FORCE WHEN TAPPING ON THE SCREEN DURING CALIBRATION. USE OF EXCESSIVE FORCE COULD RESULT IN DAMAGE TO THE LED AND/OR TOUCH PANEL.

- 5 Using the stylus, firmly touch the screen directly on the (+) symbol. Lift the stylus from the screen and the target will move to a different location on the screen.
- 6 Repeat step 5 until you have selected all of the (+) symbols.
- 7 Once you have selected all the symbols, press the [OK] button.
- 8 Touch the stylus to various points on the screen to verify that the screen is correctly calibrated. If you are not satisfied with the screen's calibration, press the [Calibrate] button to begin again.

Using the Optional Capacitive Touchscreen

Certain configurations of this Tablet PC have an optional dual digitizer that allows you to use either the stylus or your finger(s) as a pointing device. This type of display also allows you to use “gestures” to perform such actions as scroll, zoom, and rotate.



- GESTURE SUPPORT IS DETERMINED BY THE APPLICATION IN USE.
- THE STYLUS TAKES PRECEDENCE OVER FINGER TOUCH. IF THE STYLUS IS WITHIN ACTIVE RANGE OF THE SCREEN, FINGER TOUCH WILL BE DISABLED.
- WHEN ONE FINGER IS USED ON THE TOUCHSCREEN, IT BEHAVES IN THE SAME MANNER AS A STYLUS.

Right-clicking the touchscreen

To perform a right-click action using two fingers, press the first finger at the location you want to perform a right-click, then quickly tap and release the second finger on the screen.

Gesture Mode

To initiate gesture mode, two fingers must touch the screen within one 10th of a second of each other. If the second finger touches the screen after one 10th of a second has elapsed, the second finger is ignored. Gesture mode ends when both fingers are removed from the screen. Note that if a gesture can't be recognized, no action is taken. In that case, remove both fingers from the screen and try again.

Scrolling Gesture

To scroll through long documents or on a web page, place both fingers on the screen and move them in parallel in the same direction; if only one finger moves, no scrolling will occur. You can scroll vertically or horizontally, depending upon the direction of the gesture.

Zoom Gesture

The zoom gesture is especially helpful when viewing pictures. To zoom in, place two fingers on the item you want to enlarge, then spread them away from each other. To zoom out, place two fingers on the item you want to reduce, then move them towards each other.

Rotate Gesture

To change the orientation of an object on the screen, place two fingers on the image you want to rotate, then move them in opposite directions (as if you were turning a knob). The direction the item turns is dependant upon the direction you move your fingers.

Installing a Pen Tether

To prevent dropping or losing your pen, you should attach it to your system using the pen tether that is included with the system.

To attach the pen tether to your Tablet PC, perform the following steps:

- 1** Attach the end of the pen tether with the smaller loop to your pen. To do so, push the end of the tether through the hole in the pen, then thread the opposite end of the tether through the loop.
- 2** Attach the end of the pen tether with the larger loop to the attachment point on your tablet. To do so, insert the end of the pen tether through the attachment point, then feed the pen through the large loop in the tether.

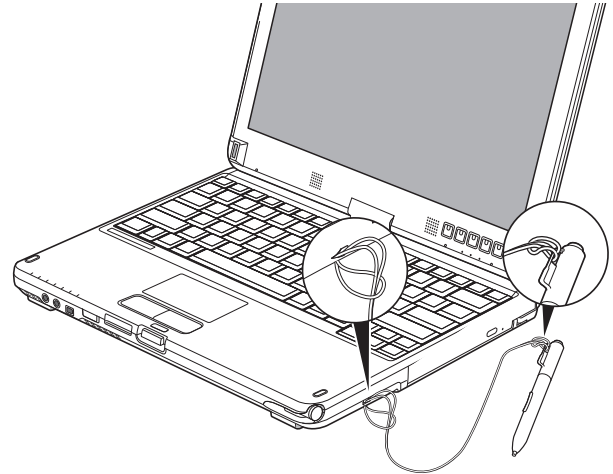


Figure 29. Installing a Pen Tether

Volume Control

Your Fujitsu LIFEBOOK Tablet PC has multiple volume controls which interact with each other.



ANY SOFTWARE THAT CONTAINS AUDIO FILES WILL ALSO CONTAIN A VOLUME CONTROL OF ITS OWN. IF YOU INSTALL AN EXTERNAL AUDIO DEVICE THAT HAS AN INDEPENDENT VOLUME CONTROL, THE HARDWARE VOLUME CONTROL AND THE SOFTWARE VOLUME CONTROL WILL INTERACT WITH EACH OTHER. IT SHOULD BE NOTED THAT IF YOU SET YOUR SOFTWARE VOLUME TO OFF, YOU WILL OVERRIDE THE EXTERNAL VOLUME CONTROL SETTING.

Controlling the Volume

The volume can be controlled in several different ways:

- Volume can be changed or muted from within the Volume Control in the system tray.
- Volume can be controlled with the F8 and F9 functions keys. Pressing [F8] repeatedly while holding [Fn] will decrease the volume of your Tablet PC. Pressing [F9] repeatedly while holding [Fn] will increase the volume of your Tablet PC.
- Volume can be muted by pressing the [F3] key while holding down the [Fn] key. To restore audio, repeat the [Fn+F3] procedure.
- Volume can be controlled by many volume controls that are set within individual applications.
- Certain external audio devices you might connect to your system may have hardware volume controls.

Each source discussed above puts an upper limit on the volume level that must then be followed by the other sources. We recommend that you experiment with the various volume controls to discover the optimal sound level.

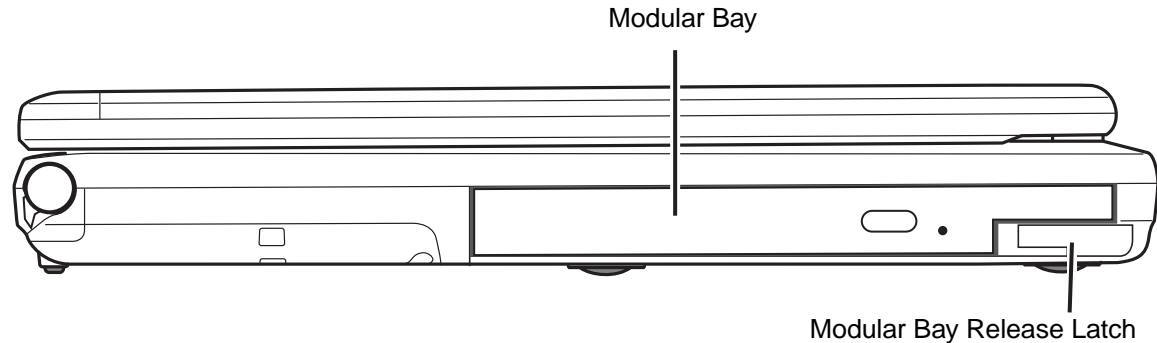


Figure 30. Modular Bay

Modular Bay Devices

Your Fujitsu LIFEBOOK Tablet PC contains a Modular Bay. The Modular Bay can house an optical drive, a Lithium ion battery, a modular second hard disk drive and a weight saver.

Your Modular Bay may have one of the following devices installed.

- **Modular Dual-Layer Multi-Format DVD Writer:** This allows you to access movies, software, and audio DVD/CDs and record to DVD, CD, and DVD-RAM discs.
- **Blu-ray Triple Writer:** The Blu-ray Triple Writer allows you to read and write to CDs, DVDs and Blu-ray discs™. The Triple Writer can store up to 25 GB of data on a single-layer Blu-ray disc. That's the equivalent of 2.5 hours of high-definition or 12 hours of standard definition video.
- **Modular Lithium ion battery:** This is a rechargeable battery that can be used to power your LIFEBOOK Tablet PC when an adapter is not connected.
- **Modular hard drive:** This allows you to increase the storage capacity of your Tablet PC.

- Weight Saver: This is used to fill the bay when no device is needed.



YOU SHOULD NEVER LEAVE YOUR MODULAR BAY EMPTY WHEN THE TABLET PC IS IN OPERATION. IF LEFT EMPTY, DUST OR FOREIGN MATTER MAY ACCUMULATE INSIDE THE TABLET PC.

Removing and Installing Modular Devices

There are two ways to remove and install modular devices in the Modular Bay:

- Cold-swapping: swapping devices while your LIFEBOOK Tablet PC is powered off.

- Hot-swapping: swapping devices while your system is active using the Safely Remove Hardware icon from your system tray.

Cold-swapping

To cold-swap modular devices in your Modular Bay follow these easy steps:

- 1 Close any open files.
- 2 Shut down your LIFEBOOK Tablet PC.
- 3 Press the Modular Bay release latch in the direction shown in Figure 31.
- 4 While holding the latch, slide your device out until it is clear of the bay. This will require light force.
- 5 Slide the device you are installing into your Tablet PC until it clicks into place.
- 6 It is now safe to turn your Tablet PC back on.
- 7 You can now access and use the device.

Your Tablet PC will automatically detect the device and activate it within your system. The drive letters associated with the device will be created and listed under My Computer and Windows Explorer.

Hot-swapping

Hot-swapping is provided through the Safely Remove Hardware utility. The icon for the utility appears in the system tray. Click on the icon and follow the on-screen instructions.

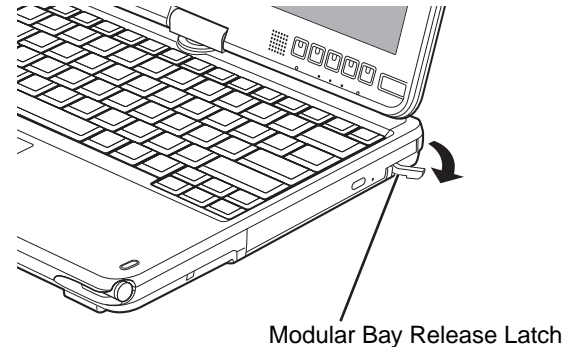
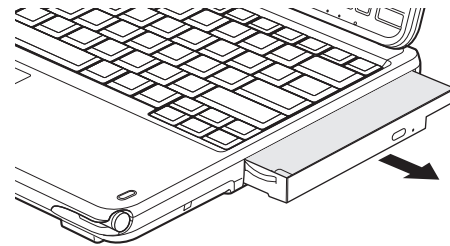


Figure 31. Removing/Installing Modular Bay Device



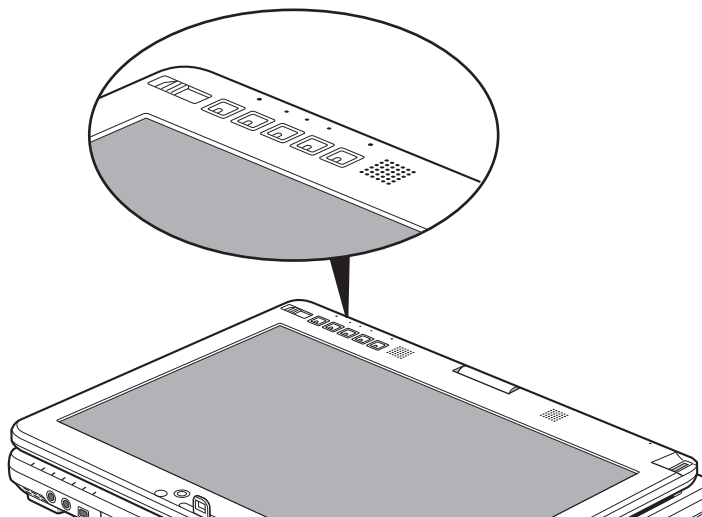


Figure 32. LIFEBOOK T731 Tablet PC Security/Tablet PC Buttons

LIFEBOOK Security/Tablet PC Buttons

A unique feature of your LIFEBOOK T731 Tablet PC is the array of Security and Tablet PC buttons. These buttons allow you to secure your Tablet PC from unauthorized use and to launch specific applications and functions with the touch of a button.

Security Button Functions

If the security system is activated, upon starting your Tablet PC or resuming from Sleep, Hibernate, or shutdown mode, the security system will require you to enter a password code using the security buttons. After you enter the correct password, your system will resume operation.

The five security/Tablet PC buttons are located on the bottom right-hand side of the display when it is configured to be used as a notebook.

All five buttons are used when implementing security functions. Four of the buttons are used to enter the password, and the fifth is used as an Enter button. See Table 1 for information about each of the buttons.





Button Icon	System State	Security Panel Function
	System is pre-boot or resuming from suspend	Security Button 1
		Security Button 2
		Security Button 3
Fn		Security Button 4
		Security Enter Button

Table 1. Security Panel Button Functions

Pre-logon button functions

All five buttons can be used before logging on to Windows (i.e., when the Windows logon screen is displayed). Three of the buttons have secondary functions. See Table 2 for information about the pre-logon functions.

<Tab>/<Shift><Tab>

When you press the [Page Down] button when the system is pre-logon, each press of the button will act as if you had pressed the [Tab] key.

When you press the [Fn] button then press and release the [Page Down] button, each press of the button will act as if you had pressed the [Shift]+[Tab] key combination.

<Enter>/<Escape>

When you press the [Page Up] button when the system is pre-logout, each press of the button will act as if you had pressed the [Enter] key.





Button Icon	System State	Tablet PC Function	Secondary Functions (Fn + Button)
	System is pre-logout (Windows logon screen is displayed)	<Tab>	<Shift><Tab>
		<Enter>	<Escape>
		Rotate screen	None
Fn		Used to invoke secondary function	None
		Ctl+Alt+Del Button	None

Table 2. Pre-logout Tablet PC Button Functions

When you press the [Fn] button then press and release the [Page Up] button, each press of the button will act as if you had pressed the [Escape] key.

Screen Rotation

The screen rotation feature would normally be used when the system is configured as a tablet. When you would like to use the tablet as an eBook, for example, you would use the portrait orientation; when accessing spreadsheets or using the system as a notebook, you would more typically use landscape orientation.

When the system is changed to tablet configuration, the orientation automatically changes to portrait mode by default.



THE SCREEN ORIENTATION DEFAULT CAN BE CHANGED BY GOING TO THE CONTROL PANEL AND DOUBLE-CLICKING ON TABLET PC SETTINGS AND THEN CLICKING ON THE GO TO ORIENTATION ICON AND SELECTING THE DESIRED SETTINGS IN THE DISPLAY PROPERTIES. AFTER CHANGING THE SETTINGS, SAVE THEM IN FUJITSU TABLET CONTROLS.

When you press the [Screen Rotation] button when the system is in pre-boot, the system screen orientation changes from portrait (vertical) to landscape (horizontal) or from landscape to portrait.

Function / Fujitsu Menu Utility Button

The [Function] button works in conjunction with the other application buttons to provide additional functionality for the buttons. Refer to specific details above.

Post-logon button functions

All five buttons can be used after logging on to Windows. Four of the buttons have secondary functions. See Table 3 for information about each of the post-logon functions.

Page Down / Application A Button

When you press the [Page Down] button when the system is running, each press of the button will scroll the screen down one frame. This allows you to navigate quickly through large documents.

When you press the [Fn] button then press and release the [Page Down/Application A] button, you will automatically start whichever program is assigned to the button. The default application for this button is Calculator. See “Changing Tablet PC Button Functions” on page 62 to select a different application for this button.

Page Up / Application B Button

When you press the [Page Up] button when the system is running, each press of the button will scroll the screen up one frame. This allows you to navigate quickly through large documents.

When you press the [Fn] button then press and release the [Page Up/Application B] button, you will automatically start whichever program is assigned to the button. The default application for this button is Microsoft Journal. See “Changing Tablet PC Button Functions” on page 62 to select a different application for this button.





Button Icon	System State	Primary Tablet PC Function	Secondary Functions (Fn + Button)
	System is post-logout (Windows desktop is displayed)	Page Down	User-defined Application A (Default = Calculator)
		Page Up	User-Defined Application B (Default = MS Journal)
		Screen Rotation	Display Switching: 1. Internal Display only 2. CRT only 3. Dual Display
Fn		Secondary Function Selection	Fujitsu Menu Utility
		Ctrl+Alt+Del Button	None

Table 3. Post-logout Tablet PC Button Functions

Screen Rotation /Display Switching Button

The screen rotation feature would normally be used only when the system is configured as a tablet. If you would like to use the tablet as an eBook, for example, you would use portrait orientation; when accessing spreadsheets or using the system as a notebook, you would more typically use landscape orientation.

When the system is changed to tablet configuration, the orientation automatically changes to portrait mode by default. You can pause or resume the auto-rotate utility by going to Start > All Programs > Auto Rotation Utility and selecting the desired functionality.



THE SCREEN ORIENTATION DEFAULT CAN BE CHANGED BY GOING TO THE CONTROL PANEL AND DOUBLE-CLICKING ON TABLET PC SETTINGS AND THEN CLICKING ON THE GO TO ORIENTATION ICON AND SELECTING THE DESIRED SETTINGS IN THE DISPLAY TAB. AFTER CHANGING THE SETTINGS, SAVE THEM IN FUJITSU TABLET CONTROLS.

When you press the [Screen Rotation /Display Switching] button, the system screen orientation changes from portrait (vertical) to landscape (horizontal) or from landscape to portrait.

Pressing the [Fn] button while pressing the [Screen Rotation] button will switch the display output in the following order: built-in display only, external display only, dual display.

Function / Fujitsu Menu Utility Button

The [Function] button works in conjunction with the other application buttons to provide additional functionality for the buttons. Refer to specific details above.

Pressing the [Fn] button twice in succession causes the Fujitsu Menu Utility to appear on your screen, allowing you to modify certain system settings.

Ctl+Alt+Del Button

Pressing and holding the [Ctl-Alt-Del] button for up to 8 seconds launches the Logon screen or the Windows Task Manager.

Changing Tablet PC Button Functions

The Application A and B buttons can be changed to launch a program or perform an action you select. By default, the Application A button launches the Calculator, and the Application B button launches MS Journal.

To launch different applications or cause the Application A or B buttons to perform a specific action:

- 1** Click on the Tablet PC Settings icon in the Control Panel.

- 2 Select the **Buttons** tab and select the button you would like to change from the list.
- 3 Click [Change] and open the drop down list in the **Press:** field.
- 4 Select the action you would like the button to perform. If you want to launch a program, click on **Launch an Application** then browse to the location of the program.
- 5 Click [OK], then click [OK] again. The buttons will now perform the actions you have assigned to them.

Setting up LIFEBOOK Security Panel

When you receive your Tablet PC, the security panel application is pre-installed without any passwords. The following sections provide detailed information on your security panel, how to set, change or remove passwords.

Numbered Buttons

Use these buttons to enter your password.

Enter Button

After entering the button strokes, push this button to enter the password into the Tablet PC.

Passwords

The user and supervisor password may be set on this Tablet PC. A supervisor password is typically the same for all tablets and notebooks in a work group, office, or company to allow for system management. Individual computers in a group environment should not use a common password. A password consists of one to five button strokes plus the enter button. A valid stroke consists of pushing one or up to four buttons simultaneously.

The following are valid button strokes:

- Pushing [4] by itself
- Pushing [2] and [3] at the same time
- Pushing [1], [2], and [4] at the same time
- Pushing [1], [2], [3], and [4] at the same time

The following are valid passwords. The numbers within braces ({ }) are button strokes using more than one button.

- {[2]+[3]}, [1], [Enter]
- [4], [enter]
- {[1]+[3]}, {[2]+[3]+[4]}, [1], [4], [2], [Enter]

Setting Passwords

When shipped from the factory, no passwords are set. You have a choice of having no password or setting a supervisor and user password. You must set the supervisor password before the user password.



- THE PURPOSE OF SUPERVISOR PASSWORD IS TO BE ABLE TO BYPASS THE USER PASSWORD IN CASE THE USER PASSWORD IS FORGOTTEN. THE SUPERVISOR PASSWORD ALONE WILL NOT LOCK THE SYSTEM.
- YOU MUST SET THE SUPERVISOR **AND** USER PASSWORDS FOR THE SECURITY PANEL TO WORK.

Setting Supervisor Password

You must have set a supervisor password before setting any user passwords. The supervisor password can bypass the user password.

- 1 Go to the **Start** menu.
- 2 Click on **Run**.
- 3 Type in: **C:\Program Files\Fujitsu\Security Panel Application\Supervisor\FJSECS.EXE**, then press [Enter]
- 4 Follow the on-screen instructions to set the Supervisor password.

Setting User Password

- 1 Go to the **Start** menu.
- 2 Click on **All Programs**.
- 3 Click on **Security Panel Application -> Security Panel Application**.
- 4 Follow the on-screen instructions to set the user password.



YOU MAY CHANGE OR REMOVE THE SUPERVISOR OR USER PASSWORD BY REPEATING THE STEPS DEFINED ABOVE.

Using Your LIFEBOOK Security Panel

The security lock feature is in effect both when the system resumes from Off, Sleep, or Hibernation state. You always need to push the Security Panel buttons to input the user password. Your system will not begin the boot sequence until you enter your supervisor/user password.

From Off State

- 1 Turn on your system.
- 2 When the Security Indicator flashes, enter the password and press Enter button (e.g., if the password is 22222, first press Button 2 five times, then press the Enter button). The Tablet PC will boot to normal operation.

From Hibernation State

- 1 Press your Suspend/Resume button.
- 2 When the Security Indicator flashes, enter the password and press Enter button. The Tablet PC should resume normal operation.

Incorrect Password Entry

If an invalid supervisor or user password is entered three times in succession, the system will “beep” for about one minute. If a valid password is entered within a minute (while system beeps), the beeping will stop and the Tablet PC will resume normal operation. If no password is entered or an invalid password is entered while the system beeps, the system will return to its previous locked state (sleep or off) and the Security Indicator will go off. To reactivate the Tablet PC after a password failure, you must press the Suspend/Resume button, then enter a correct password.



REMEMBER THE USER PASSWORD YOU SPECIFIED ON THE SECURITY PANEL APPLICATION. IF YOU FORGET THE PASSWORD YOU WILL NOT BE ABLE TO USE YOUR COMPUTER. THE SUPERVISOR PASSWORD CAN OVERRIDE THE USER PASSWORD.

Precautions

Opening and Closing the Cover

By default, closing the cover automatically places your system into Sleep mode.

To change the default when the cover is closed:

- 1 Open the system Control Panel and select Power Options.
- 2 Click **Choose what closing the lid does** in the left pane.
- 3 Select the desired action for **When I close the lid**, then click the [Save changes] or [Apply] button (depending upon your operating system).

Low Battery Operations

If your Tablet PC has a low battery, pushing the suspend/resume button only turns on the Security Indicator. Your Tablet PC does not unlock, the Security Indicator turns off after one minute. To resume normal operation, first attach a power supply to the Tablet PC. Then you may unlock the Tablet PC.

Uninstalling/Re-installing the Security Panel Application

You have two options when uninstalling the security panel application:

- Remove passwords and uninstall the security panel application software. This will disable all security features.
- Uninstall the security panel application with password still active. This will not allow any changes to the password.

Uninstalling the Security Panel Application Software

Remove passwords when User wants no password protection whatsoever and doesn't want to give anybody the utility to set a password on their computer. In this case, if passwords (supervisor, user, or both) are set, the passwords must first be cleared BEFORE removing the application. To clear passwords, follow same procedure in SETTING PASSWORD CODES except this time, select REMOVE, enter current password then click **Next**. When asked to confirm select **Yes**.

Removing Security Panel Application with Passwords Still Active

Using this feature will not allow any changes to the password.



REMOVING THE APPLICATIONS DOES NOT REMOVE THE PASSWORD. IT SIMPLY REMOVES THE ABILITY TO CHANGE/ADD/REMOVE PASSWORDS. TO CHANGE YOUR PASSWORD YOU MUST REINSTALL THE APPLICATION.

User:

- 1 Go to Start -> Control Panel.
- 2 Open **Programs and Features** in the Control Panel.
- 3 Select **Security Panel for User** in the list, and click **Uninstall/Change**.
- 4 When User Account Control box appears, click **Continue**.

Supervisor:

- 1 Go to Start -> Control Panel.
- 2 Open **Add or Remove Programs Properties** in the Control Panel.
- 3 Select the **Security Panel for Supervisor** in the list, and click **Uninstall/Change**.
- 4 When User Account Control box appears, click **Continue**.

Reinstalling the Security Panel Application

To reinstall supervisor or user security application, you will need your Drivers and Applications CD. The **Utilities\Security Panel Application** folder contains two separate folders: **Supervisor** and **User**. The setup files for supervisor and user security applications are contained in those folders.

- 1** Go to the **Utilities\Security Panel Application\Supervisor** folder on the CD and double-click the **setup.exe** file. The Installing Security Panel Application window will appear. Follow the instructions on the screen.
- 2** Go to the **Utilities\Security Panel Application\User** folder on the CD and double-click the **setup.exe** file. The Installing Security Panel Application window will appear. Follow the instructions on the screen.

Supervisor and user passwords can be set via Windows software using the FJSECS.exe and FJSECU.exe files, respectively. FJSECU.exe for the user password cannot run without first setting a supervisor password. You need to run FJSECS.exe first to set the supervisor password. Follow instructions under Setting Passwords on page 64.

If you forget both passwords, please contact Fujitsu America Service and Support at 1-800-8FUJITSU (1-800-838-5487). Fujitsu America charges a service fee for unlocking a password-restricted Tablet PC. When calling please have a valid credit card and provide proof of ownership. You will then be given instructions on where to ship your Tablet PC.



Chapter 2

Getting Started with Your LIFEBOOK

Power Sources

Your Fujitsu LIFEBOOK Tablet PC has three possible power sources: a primary Lithium ion battery, an AC adapter or an optional Auto/Airline adapter.

Connecting the Power Adapters

The AC adapter or optional Auto/Airline adapter provides power for operating your Tablet PC and charging the batteries.

Connecting the AC Adapter

- 1 Plug the DC output cable into the DC power jack of your LIFEBOOK Tablet PC.
- 2 Plug the AC adapter into an AC electrical outlet.

Connecting the Optional Auto/Airline Adapter

- 1 Plug the DC output cable into the DC power jack on your Tablet PC.
- 2 Plug the Auto/Airline adapter into the cigarette lighter of an automobile, or,
- 3 Plug the Auto/Airline adapter into the DC power jack on an airplane seat.

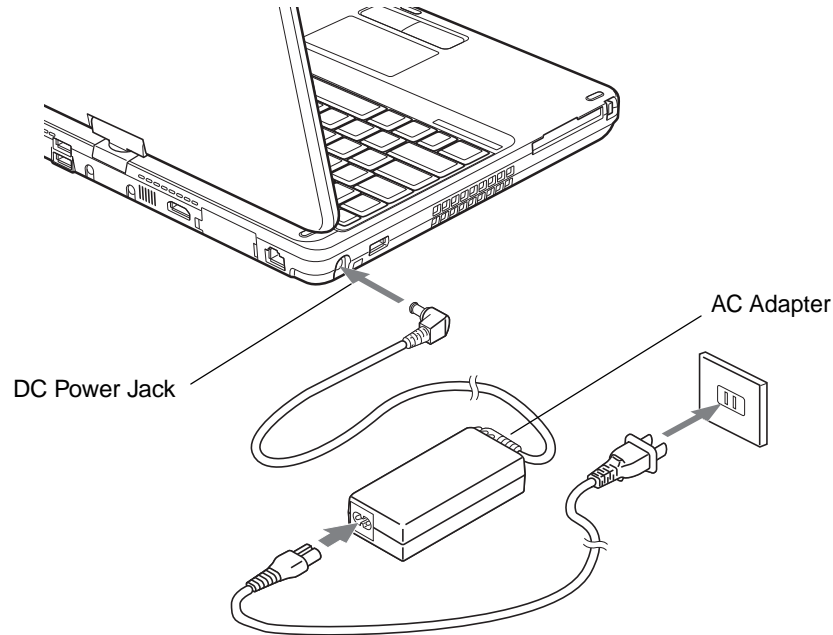


Figure 33. Connecting the AC Adapter

Switching from AC Adapter Power or the Auto/Airline Adapter to Battery Power

- 1** Be sure that you have at least one charged battery installed.
- 2** Remove the AC adapter or the Auto/Airline adapter.



THE LITHIUM ION BATTERY IS NOT CHARGED UPON PURCHASE. INITIALLY, YOU WILL NEED TO CONNECT EITHER THE AC ADAPTER OR THE AUTO/AIRLINE ADAPTER TO USE YOUR TABLET PC.

Starting Your LIFEBOOK Tablet PC

Power On

Power/Suspend/Resume Switch

The Power/Suspend/Resume switch is used to turn on your LIFEBOOK Tablet PC from its off state. Once you have connected your AC adapter or charged the internal Lithium ion battery, you can power on your LIFEBOOK Tablet PC.



WHEN YOU TURN ON YOUR LIFEBOOK TABLET PC BE SURE YOU HAVE A POWER SOURCE. THIS MEANS THAT AT LEAST ONE BATTERY IS INSTALLED AND CHARGED, OR THAT THE AC OR AUTO/AIRLINE ADAPTER IS CONNECTED AND HAS POWER.

To turn on your LIFEBOOK Tablet PC from its off state, slide the Power/Suspend/Resume switch, located above the keyboard to the right. When you are done working you can either leave your Tablet PC in Suspend mode or you can turn it off. See “Sleep Mode” on page 77 and “Powering Off” on page 80.

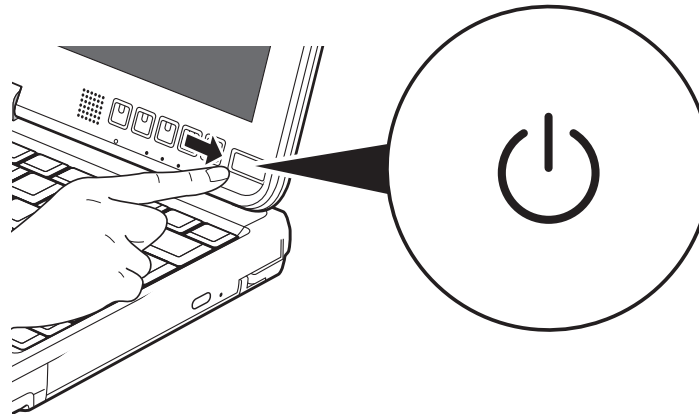


Figure 34. Power/Suspend/Resume Switch



DO NOT CARRY YOUR LIFEBOOK TABLET PC AROUND WITH THE POWER ON OR SUBJECT IT TO SHOCKS OR VIBRATION, AS YOU RISK DAMAGING YOUR TABLET PC.

When you power on your LIFEBOOK, it will perform a Power On Self Test (POST) to check the internal parts and configuration for correct functionality. If a fault is found, your LIFEBOOK Tablet PC will emit an audio warning and/or an error message will be displayed. See “Power On Self Test Messages” on page 118. Depending on the nature of the problem, you may be able to continue by starting the operating system or by entering the BIOS setup utility and revising the settings.

After satisfactory completion of the POST, your Tablet PC will load your operating system.



NEVER TURN OFF YOUR LIFEBOOK TABLET PC DURING THE POWER ON SELF TEST (POST) OR IT WILL CAUSE AN ERROR MESSAGE TO BE DISPLAYED WHEN YOU TURN YOUR LIFEBOOK TABLET PC ON THE NEXT TIME. See “Power On Self Test Messages” on page 118.

Boot Sequence

The procedure for starting-up your Tablet PC is termed the Bootup sequence and involves your Tablet PC’s BIOS. When your LIFEBOOK Tablet PC is first turned on, the main system memory is empty, and it needs to find instructions to start up your Tablet PC. This information is in the BIOS program. Each time you power up or restart your Tablet PC, it goes through a boot sequence which displays a Fujitsu logo until your operating system is loaded. During booting, your Tablet PC is performing a standard boot sequence including a Power On Self Test (POST). When the boot sequence is completed without a failure and without a request for the BIOS Setup Utility, the system displays the operating system’s opening screen.

The boot sequence is executed when:

- You turn on the power to your LIFEBOOK Tablet PC.
- You restart your Tablet PC from the Windows Shut Down dialog box.
- The software initiates a system restart. Example: When you install a new application.

Hard Disk Drive Passwords

To provide additional security for your data, you can assign passwords to your hard disk drive(s). This feature is managed in the system BIOS Setup Utility. See *BIOS Setup Utility* below for information about accessing the utility.



REMEMBER YOUR PASSWORDS. IF YOU SET AND FORGET YOUR USER AND MASTER HARD DISK PASSWORDS, FUJITSU WILL NOT BE ABLE TO RESET IT. YOU MAY LOSE DATA AND HAVE TO REPLACE YOUR SYSTEM BOARD OR HARD DISK DRIVE.

BIOS Setup Utility

The BIOS Setup Utility is a program that sets up the operating environment for your LIFEBOOK Tablet PC. Your BIOS is set at the factory for normal operating conditions, therefore there is no need to set or change the BIOS' environment to operate your Tablet PC.

The BIOS Setup Utility configures:

- Device control feature parameters, such as changing I/O addresses and boot devices.
- System Data Security feature parameters, such as passwords.

Entering the BIOS Setup Utility

To enter the setup utility, do the following:

- 1** Turn on or restart your LIFEBOOK Tablet PC.
- 2** To enter the BIOS Setup Utility, press the [F2] key once the Fujitsu logo appears on the screen. This will open the main menu of the BIOS Setup Utility with the current settings displayed.

- 3 Press the [RIGHT ARROW] or [LEFT ARROW] key to scroll through the other setup menus to review or alter the current settings.

The Boot Menu can also be invoked by pressing the [F12] key when the Fujitsu logo appears on the screen.

BIOS Guide

A guide to your Tablet PC's BIOS is available online. Please visit our service and support website at <http://www.computers.us.fujitsu.com/support>, then select User's Guides under Online Support. Select your Product, Series, and Model, then click [Go]. Under the Manuals tab, select the BIOS Guide.

Booting the System

We strongly recommend that you not attach any external devices until you have gone through the initial power on sequence.

When you turn on your Tablet PC for the first time, it will display a Fujitsu logo on the screen. If you do nothing the system will load the operating system, and then the Windows Welcome will begin.

Starting Windows the first time



THE FIRST TIME YOU INITIALIZE YOUR WINDOWS SYSTEM, THE SCREEN WILL BE BLANK FOR APPROXIMATELY TWO MINUTES. THIS IS NORMAL. AFTER INITIALIZATION, A "SET UP WINDOWS" DIALOG BOX WILL APPEAR.

IMPORTANT: DURING THE SETUP PROCEDURE, DO NOT DISCONNECT THE POWER SUPPLY, PRESS ANY BUTTONS, OR USE ANY PERIPHERAL DEVICES SUCH AS A MOUSE, KEYBOARD, OR REMOTE CONTROL.

In order to ensure that you receive the most benefits from the Windows operating system, it should be registered the first time you use it.

1 First of all, you will need to read and accept the End User License Agreements (EULAs).



- IF YOU REJECT THE TERMS OF THE LICENSE AGREEMENTS YOU WILL BE ASKED TO REVIEW THE LICENSE AGREEMENTS FOR INFORMATION ON RETURNING WINDOWS OR TO SHUT DOWN YOUR LIFEBOOK TABLET PC.
- YOU CANNOT USE YOUR TABLET PC UNTIL YOU HAVE ACCEPTED THE LICENSE AGREEMENTS. IF YOU STOP THE PROCESS YOUR TABLET PC WILL RETURN TO THE BEGINNING OF THE WINDOWS WELCOME PROCESS, EVEN IF YOU SHUT YOUR TABLET PC DOWN AND START IT UP AGAIN.

2 You will be prompted to enter your User Name and Password and you will be given a chance to select an icon for your account.

3 The next screen asks for a Computer Name and allows you to choose a desktop background.

4 You will next see a "Help protect Windows automatically" screen in which the default choice is "Use recommended settings". The other two choices are "Install important updates only" and "Ask me later". Select from the three choices.

5 On the next screen set your time and date settings.

6 You will next see the "Select your computer's current location" screen. Make your selection from Home, Work (Default), and Public location.

7 The "Thank you" screen follows and an offer for free Norton Internet Security is extended. Following are several screens while Windows checks the system performance.

8 Windows will then boot up for the first time. As noted above, the first time you initialize your system, the screen will be blank for approximately two minutes. This is normal. During this period, do not disconnect the power supply, press any buttons, or use any peripheral devices such as mouse, keyboard, or remote control.

Registering Windows with Microsoft

1 After Windows has booted up for the first time, the Control Panel Welcome Center will appear. If the Register Windows Online icon is not seen in the window, click on "Show all xx items" (where "xx" is the number of topics in the Welcome Center).

2 Click on Register Windows Online and follow the instructions that appear to register your copy of Windows.

Registering Your LIFEBOOK Tablet PC with Fujitsu

You can register your LIFEBOOK by going to our website at: <http://solutions.us.fujitsu.com/>. You will need to be set up with an Internet Service Provider (ISP) to register online.



Installing ClickMe!



BEFORE INSTALLING THE CLICKME! UTILITY, BE SURE THE WIRELESS LAN SWITCH IS TURNED ON.

The first time you boot up your system, you will see a “Primary Settings for the PC” window. This window explains the installations which will be performed by the Click Me! utility. If you click [Execute], ClickMe! will begin installing. If after clicking the button you receive a “User Account Control” window, you will be asked for your permission to continue. Click [Continue] to continue. If you cancel the operation, the ClickMe! icon will appear on your desktop for later installation.



THERE MAY BE SOME THIRD-PARTY APPLICATIONS THAT DO NOT GET INSTALLED USING THE CLICKME! UTILITY. FOR MORE INFORMATION, REFER TO YOUR GETTING STARTED GUIDE.



Fujitsu Driver Update Utility

Your system has a tool called the Fujitsu Driver Update (FDU) utility. With FDU, you can choose to automatically or manually go to the Fujitsu site to check for new updates for your system. For more information about the FDU utility, refer to “Automatically Downloading Driver Updates” on page 128.

Power Management

Your Fujitsu LIFEBOOK Tablet PC has many options and features for conserving battery power. Some of these features are automatic and need no user intervention. However, others depend on the parameters you set to best suit your operating conditions, such as those for the display brightness. Internal power management for your Tablet PC may be controlled from settings made in your operating system, pre-bundled power management application, or from settings made in BIOS setup utility.

Besides the options available for conserving battery power, there are also some things that you can do to prevent your battery from running down as quickly. For example, you can create an appropriate power saving profile, put your Tablet PC into Sleep mode when it is not performing an operation, and you can limit the use of high power devices. As with all mobile, battery powered computers, there is a trade-off between performance and power savings.

Power/Suspend/Resume Switch

When your Tablet PC is active, the Power/Suspend/Resume switch can be used to manually put the Tablet PC into Sleep mode. Push the Power/Suspend/Resume switch when the Tablet PC is active, but not actively accessing anything, and immediately release the button.

If your Tablet PC is suspended, pushing the Power/Suspend/Resume switch returns it to active operation. You can tell whether the system is Suspended by looking at the Power indicator. If the indicator is visible and not flashing, your Tablet PC is fully operational. If the indicator is visible *and* flashing, the Tablet PC is in Sleep mode. If the indicator is not visible, the power is off or your Tablet PC is in Hibernation mode.

Sleep Mode

Sleep mode in Windows saves the contents of your system memory during periods of inactivity by maintaining power to critical parts. This mode turns off the CPU, display, hard drive, and all other internal components except those necessary to maintain system memory and for restarting.

Your Tablet PC can be put in sleep mode by:

- Pressing the Power/Suspend/Resume switch when your system is turned on.

- Selecting “Sleep” after clicking [Start] then clicking the small arrow at the bottom right of the window.
- Timing out from lack of activity.
- Allowing the battery to reach the Dead Battery Warning condition.

Your Tablet PC’s system memory typically stores the file on which you are working, open application information, and any other data required to support operations in progress. When you resume operation from Sleep mode, your Tablet PC will return to the point where it left off. You must use the Power/Suspend/Resume switch to resume operation, and there must be an adequate power source available, or your Tablet PC will not resume.



- IF RUNNING YOUR TABLET PC ON BATTERY POWER, BE AWARE THAT THE BATTERY CONTINUES TO DISCHARGE WHILE YOUR TABLET PC IS IN SLEEP MODE, THOUGH NOT AS QUICKLY AS WHEN FULLY OPERATIONAL.
- DISABLING THE POWER/SUSPEND/RESUME SWITCH PREVENTS IT FROM BEING USED TO PUT THE TABLET PC INTO SLEEP OR HIBERNATION (SAVE-TO-DISK) MODE. THE BUTTON RESUME FUNCTION CANNOT BE DISABLED.
- THE SLEEP OR HIBERNATION MODE SHOULD NOT BE USED WITH CERTAIN EXPRESSCARDS. CHECK YOUR EXPRESSCARD DOCUMENTATION FOR MORE INFORMATION. WHEN EXPRESSCARDS OR EXTERNAL DEVICES ARE IN USE, HIBERNATION MODE CANNOT RETURN TO THE EXACT STATE PRIOR TO SUSPENSION, BECAUSE ALL OF THE PERIPHERAL DEVICES WILL BE RE-INITIALIZED WHEN THE SYSTEM RESTARTS.
- IF YOUR TABLET PC IS ACTIVELY ACCESSING INFORMATION WHEN YOU ENTER THE SLEEP OR HIBERNATION MODE, CHANGES TO OPEN FILES ARE NOT LOST. THE FILES ARE LEFT OPEN AND MEMORY IS KEPT ACTIVE DURING SLEEP MODE OR THE MEMORY IS TRANSFERRED TO THE INTERNAL HARD DRIVE DURING HIBERNATION MODE.

THE MAIN ADVANTAGE OF USING HIBERNATION IS THAT POWER IS NOT REQUIRED TO MAINTAIN YOUR DATA. THIS IS PARTICULARLY IMPORTANT IF YOU WILL BE LEAVING YOUR TABLET PC IN A SUSPENDED STATE FOR A PROLONGED PERIOD OF TIME. THE DRAWBACK OF USING HIBERNATION MODE IS THAT IT LENGTHENS THE POWER DOWN AND POWER UP SEQUENCES AND RESETS PERIPHERAL DEVICES.

Hibernation (Save-to-Disk) Feature

The Hibernation feature saves the contents of your Tablet PC's system memory to the hard drive as a part of the Suspend/Resume mode. You can enable or disable this feature.

Enable or Disable the Hibernation Feature

The default settings are not enabled. To enable or disable the Hibernation feature follow these steps:

- 1 From the Start menu, select Control Panel, then select the Power Options icon.
- 2 Select "Choose what the power button does" or "Choose what closing the lid does", then make your selections (Do Nothing, Sleep, Hibernate, or Shut Down).

Windows Power Management

The Power Options icon located in the Windows Control Panel allows you to configure some of the power management settings. For example, you can use the Power Options to set the timeout values for turning off the display and hard disks whether you are running the Tablet PC on battery power or one of the adapters.

Restarting the System

If your system is on and you need to restart it, be sure that you use the following procedure.

- 1 Click the [Start] button, and then move the mouse over the small arrow at the bottom right of the right-hand pane.
- 2 Select **Restart** from the list.



TURNING OFF YOUR LIFEBOOK TABLET PC WITHOUT EXITING WINDOWS OR TURNING ON YOUR TABLET PC WITHIN 10 SECONDS OF THE SYSTEM BEING SHUT OFF MAY CAUSE AN ERROR WHEN YOU START THE NEXT TIME.

Powering Off

Before turning off the power, check that the hard drive/optical drive access indicator is off. If you turn off the power while accessing a disk there is a risk of data loss. To ensure that your Tablet PC shuts down without error, use the Windows shut down procedure.



BE SURE TO CLOSE ALL FILES, EXIT ALL APPLICATIONS, AND SHUT DOWN YOUR OPERATING SYSTEM PRIOR TO TURNING OFF THE POWER. IF FILES ARE OPEN WHEN YOU TURN THE POWER OFF, YOU WILL LOSE ANY CHANGES THAT HAVE NOT BEEN SAVED, AND MAY CAUSE DISK ERRORS.

Using the correct procedure to shut down from Windows allows your Tablet PC to complete its operations and turn off power in the proper sequence to avoid errors. The proper sequence is:

- 1 Click the [Start] button, and then move the mouse over the small arrow at the bottom right of the right-hand pane.
- 2 Select **Shut Down** from the list.

If you are going to store your Tablet PC for a month or more, see Care and Maintenance Section.

ENERGY STAR® Compliance



Your Fujitsu system is an ENERGY STAR® qualified mobile PC. By choosing a computer with the latest energy-saving technology, you're helping to preserve our environment for future generations.

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency, U.S. Department of Energy, Natural Resources Canada, and other governments around the world helping us save money while protecting the environment through energy efficient products and practices. With energy costs and global warming top-of-mind for consumers, Fujitsu is committed to offering solutions that help consumers conserve energy and improve the quality of our environment.

Sleep Mode:

You will notice that your computer is initially set so that the display turns off after 15 minutes of user inactivity, and the computer goes into Sleep mode after 20 minutes of user inactivity. When going into Sleep mode, the computer also reduces the speed of any active Ethernet network links. To “wake” the computer from Sleep mode, press the Suspend/Resume Button.

Energy saving benefits:

Fujitsu ENERGY STAR qualified mobile PCs use about half as much electricity as standard equipment – saving half in utility costs. But more than that, ENERGY STAR also makes a difference for the environment. Did you know that the average house can be responsible for twice the greenhouse gas emissions as the average car? That’s because every time you flip on a light switch, run your dishwasher, or turn on your PC, you use energy, which means more greenhouse gas emissions from power plants. So the more energy we can save through energy efficiency, the more we help to reduce greenhouse gases and the risks of global warming.

To learn more about the important ENERGY STAR program, visit: **www.energystar.gov**.

To read about how Fujitsu is supporting Sustainable Management along with several other environmental activities, visit the Fujitsu Corporate Citizenship page at:

<http://www.computers.us.fujitsu.com/www/content/aboutus/environmental/environment.php>

Chapter 3

User-Installable Features

Lithium ion Battery

Your LIFEBOOK Tablet PC has a Lithium ion battery that provides power for operating your Tablet PC when no external power source is available. The battery is durable and long lasting, but should not be exposed to extreme temperatures, high voltages, chemicals or other hazards.

The Lithium ion battery operating time may become shorter if it is used under the following conditions:

- When used at temperatures that exceed a low of 5°C or a high of 35°C (41° to 95° F). Extreme temperatures not only reduce charging efficiency, but can also cause battery deterioration. The Charging icon on the Status Indicator panel will flash when you try to charge a battery that is outside its operating temperature range.
- When using a high current device such as a modem, external optical drive, or the hard drive, using the AC adapter will conserve your battery life.



DO NOT LEAVE A FAULTY BATTERY IN YOUR TABLET PC. IT MAY DAMAGE YOUR AC ADAPTER, OPTIONAL AUTO/AIRLINE ADAPTER, ANOTHER BATTERY OR YOUR TABLET PC ITSELF. IT MAY ALSO PREVENT OPERATION OF YOUR TABLET PC BY DRAINING ALL AVAILABLE CURRENT INTO THE BAD BATTERY.



- ACTUAL BATTERY LIFE WILL VARY BASED ON SCREEN BRIGHTNESS, APPLICATIONS, FEATURES, POWER MANAGEMENT SETTINGS, BATTERY CONDITION AND OTHER CUSTOMER PREFERENCES. OPTICAL DRIVE OR HARD DRIVE USAGE MAY ALSO HAVE A SIGNIFICANT IMPACT ON BATTERY LIFE. THE BATTERY CHARGING CAPACITY IS REDUCED AS THE BATTERY AGES. IF YOUR BATTERY IS RUNNING LOW QUICKLY, YOU SHOULD REPLACE IT WITH A NEW ONE.
- UNDER FEDERAL, STATE, OR LOCAL LAW IT MAY BE ILLEGAL TO DISPOSE OF BATTERIES BY PUTTING THEM IN THE TRASH. PLEASE TAKE CARE OF OUR ENVIRONMENT AND DISPOSE OF BATTERIES PROPERLY. CHECK WITH YOUR LOCAL GOVERNMENT AUTHORITY FOR DETAILS REGARDING RECYCLING OR DISPOSING OF OLD BATTERIES. IF YOU CANNOT FIND THIS INFORMATION ELSEWHERE, CONTACT YOUR SUPPORT REPRESENTATIVE AT 1-800-8FUJITSU (1-800-838-5487)

Recharging the Batteries

If you want to know the condition of the primary Lithium ion battery, check the Battery Level indicator located on the Status Indicator panel. The indicator changes as the battery level changes.

The Lithium ion battery is recharged internally using the AC adapter or Auto/Airline adapter. To recharge the battery make sure the battery that needs to be charged is installed in your LIFEBOOK Tablet PC and connect the AC or Auto/Airline adapter.



MAKE SURE THAT THE PERCENTAGE CHARGE IS INDICATED BY THE BATTERY CHARGING INDICATOR ON THE STATUS INDICATOR PANEL.

There is no memory effect on the Lithium ion battery therefore you do not need to discharge the battery completely before recharging. The charge times will be significantly longer if your Tablet PC is in use while the battery is charging. If you want to charge the battery more quickly, put your Tablet PC into Sleep mode, or turn it off while the adapter is charging the battery. *(See Power Management on page 77 for more information on Sleep mode and shutdown procedure)*



USING HEAVY CURRENT DEVICES OR FREQUENT EXTERNAL OPTICAL DRIVE ACCESSES MAY PREVENT CHARGING COMPLETELY.

Low Battery State

When the battery is running low, a low battery notification message will appear. If you do not respond to the low battery message, the batteries will continue to discharge until they are too low to operate. When this happens, your Tablet PC will go into Sleep mode. There is no guarantee that your data will be saved once the Tablet PC reaches this point.



- ONCE THE LOW BATTERY NOTIFICATION MESSAGE APPEARS, YOU NEED TO SAVE ALL YOUR ACTIVE DATA AND PUT YOUR LIFEBOOK TABLET PC INTO SLEEP MODE UNTIL YOU CAN PROVIDE A NEW POWER SOURCE. YOU SHOULD PROVIDE A CHARGED BATTERY, AN AC POWER ADAPTER, OR AUTO/AIRLINE ADAPTER AS SOON AS POSSIBLE.
- WHEN YOU ARE IN SLEEP MODE THERE MUST ALWAYS BE AT LEAST ONE POWER SOURCE ACTIVE. IF YOU REMOVE ALL POWER SOURCES WHILE YOUR LIFEBOOK TABLET PC IS IN SLEEP MODE, ANY DATA THAT HAS NOT BEEN SAVED TO THE HARD DRIVE WILL BE LOST.

Dead Battery Suspend mode shows on the Status indicator just like the normal Sleep mode. Once your Tablet PC goes into Dead Battery Suspend mode you will be unable to resume operation until you provide a source of power either from an adapter, or a charged battery. Once you have provided power, you will need to press the Power/Suspend/Resume switch to resume operation.

In the Dead Battery Suspend mode, your data can be maintained for some time, but if a power source is not provided promptly, the Power indicator will stop flashing and go out, meaning that you have lost the data that was not stored. Once you provide power, you can continue to use your Tablet PC while an adapter is charging the battery.

Shorted Batteries

The Status Indicator panel indicator associated with the Battery Level indicator displays the operating level available in that battery. If this display shows a flashing red LED, it means the battery is damaged and must be replaced so it does not damage other parts of your LIFEBOOK Tablet PC.

Replacing the Battery

With the purchase of an additional battery, you can have a fully charged spare to swap with one that is not charged. There are two ways to swap batteries, cold-swapping and hot-swapping:

Cold-swapping Batteries

To cold-swap batteries in your battery bay, follow these easy steps (Figure 35):

- 1 Have a charged battery ready to install.
- 2 Shut down your Tablet PC and disconnect the AC adapter.
- 3 While pushing the battery bay release latches towards each other, slide the battery out of the bay.
- 4 Insert a new battery into the bay, and press it in firmly so that the latches click into place.
- 5 Plug in the AC adapter and turn the power on.

Hot-swapping Batteries

To hot-swap batteries in your battery bay follow these easy steps:



BE SURE TO PLUG IN AN AC ADAPTER PRIOR TO REMOVING THE BATTERY. THERE IS NO BRIDGE BATTERY PRESENT TO SUPPORT THE SYSTEM WHILE THE BATTERY IS BEING REPLACED. IF YOU DO NOT USE AN AC ADAPTER YOU WILL LOSE ANY UNSAVED FILES.

- 1 Plug an AC Adapter into the system and connect it to a power outlet.

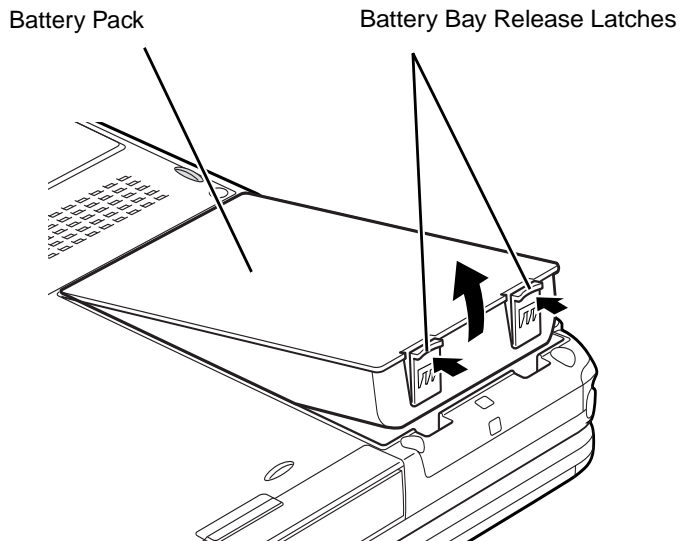


Figure 35. Removing a Battery

- 2** Follow steps 3 through 5 in “Cold Swapping Batteries”.



IF THE LITHIUM ION BATTERY CONNECTOR IS NOT FULLY SEATED, YOU MAY NOT BE ABLE TO USE YOUR TABLET PC OR CHARGE YOUR BATTERY.

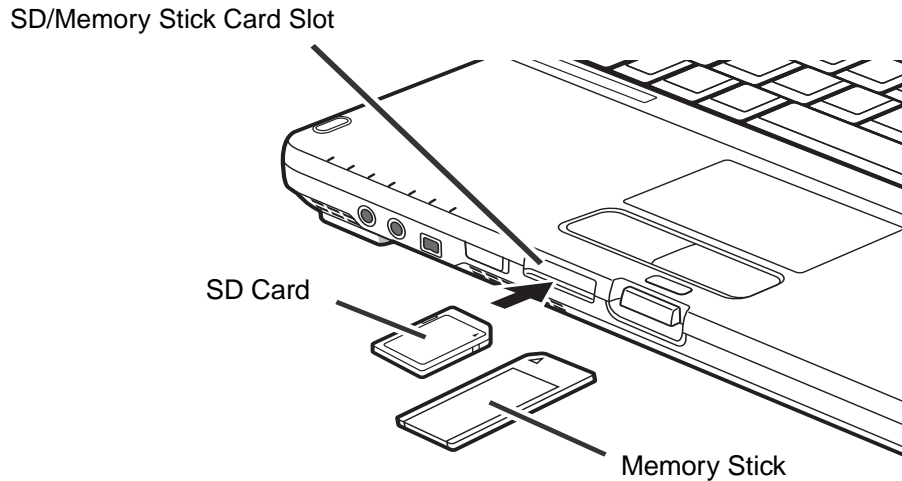


Figure 36. Installing a Memory Stick or SD Card

Memory Stick/Secure Digital Cards

Your LIFEBOOK Tablet PC supports Memory Sticks and Secure Digital (SD) cards, on which you can store and transfer data to and from a variety of digital devices. These cards use flash memory architecture, which means they don't need a power source to retain data.

Memory Stick is a flash memory technology that allows you to record, transfer and share digital content, such as digital pictures, movies, music, voice, and computer data and applications.

Secure Digital (SD) Cards are very similar to Memory Sticks. Like Memory Sticks, SD Cards allow portable storage among a variety of devices, such as cell phones, GPS systems, digital cameras, and PDAs. SD Cards transfer data quickly, with low battery consumption. Like the memory stick, it uses flash memory architecture.

Installing Memory Stick/SD Cards

Memory Stick and SD Cards are installed in the Memory Stick/SD Card slot. To install a Memory Stick or SD Card, follow these steps:



INSTALLING OR REMOVING A MEMORY STICK OR SD CARD DURING YOUR LIFEBOOK TABLET PC'S SHUTDOWN OR BOOTUP PROCESS MAY DAMAGE THE CARD AND/OR YOUR LIFEBOOK TABLET PC.

DO NOT INSERT A CARD INTO A SLOT IF THERE IS WATER OR ANY OTHER SUBSTANCE ON THE CARD AS YOU MAY PERMANENTLY DAMAGE THE CARD, YOUR LIFEBOOK TABLET PC, OR BOTH.

- 1 See your specific card manual for instructions on the installation of your card. Some cards may require that your Tablet PC is off while installing them.
- 2 Make sure there is no card currently in the slot. If there is, see Removing a Memory Stick/SD Card.
- 3 Insert your card into the slot with the product label facing up.
- 4 Push the card firmly into the slot until it is seated in the connector.

Removing A Memory Stick/SD Card

To remove a Memory Stick or SD Card, follow these easy steps:



SEE YOUR CARD MANUAL FOR SPECIFIC INSTRUCTIONS ON THE REMOVAL OF YOUR CARD. SOME CARDS MAY REQUIRE YOUR LIFEBOOK TABLET PC TO BE IN SLEEP MODE OR OFF WHILE REMOVING THEM.

- 1 Select Safely Remove Hardware from the System Tray. Highlight the card in the list, then click [Stop].
- 2 Push the Memory Stick or SD Card in until it unlatches. It will then eject from the slot for removal.

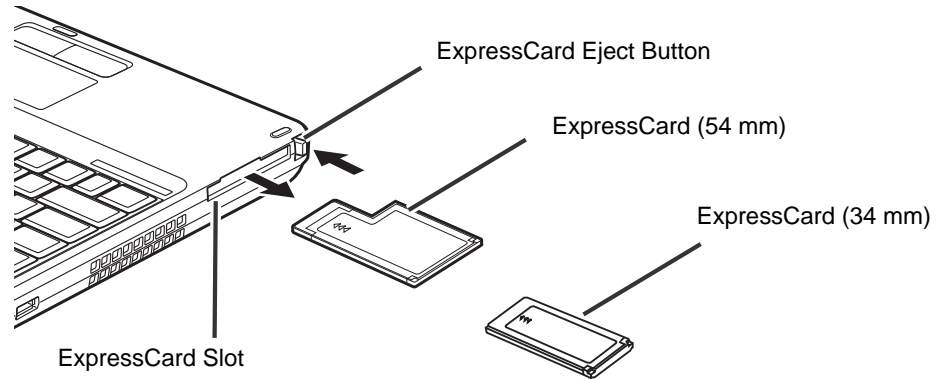


Figure 37. Installing/Removing an ExpressCard

ExpressCards

Your LIFEBOOK supports ExpressCards™ which can perform a variety of functions depending on which type of card you install.

There are two different width ExpressCards: 34 mm and 54 mm. The connector inside the slot is located on the left-hand side of the slot. If you insert a 34 mm card, be sure to align it with the left side of the slot when inserting it.

For further information, refer to the instructions supplied with your card(s).

Installing ExpressCards

ExpressCards are installed in the ExpressCard slot on the left-hand side of the system.



- INSTALLING OR REMOVING AN EXPRESSCARD DURING YOUR Tablet PC'S SHUTDOWN OR BOOTUP PROCESS MAY DAMAGE THE CARD AND/OR YOUR Tablet PC.
- DO NOT INSERT AN EXPRESSCARD INTO A SLOT IF THERE IS WATER OR ANY OTHER SUBSTANCE ON THE CARD AS YOU MAY PERMANENTLY DAMAGE THE CARD, YOUR Tablet PC, OR BOTH.



YOU MAY BE REQUIRED TO LOG ON AS ADMINISTRATOR OR A MEMBER OF THE ADMINISTRATOR'S GROUP TO COMPLETE THIS PROCEDURE. IF YOUR COMPUTER IS CONNECTED TO A NETWORK, NETWORK POLICY SETTINGS MAY ALSO PREVENT YOU FROM COMPLETING THIS PROCEDURE.

See your ExpressCard manual for instructions on the installation of your card. Some cards may require that your Tablet PC is off while installing them.

To install an ExpressCard, follow these steps (see Figure 37):

- 1** Make sure there is no ExpressCard currently in the slot. If there is, see Removing ExpressCards.
- 2** If the eject button is extended, press it in until it clicks.
- 3** Insert your ExpressCard into the slot with the product label facing up. If you are inserting a 34 mm card, be sure to align it with the left side of the slot when inserting it.
- 4** Push the card firmly into the slot until it is seated in the connector.

Removing ExpressCards

See your ExpressCard manual for specific instructions on removing your card. Some cards may require your Tablet PC to be in Sleep Mode or Off during removal.



- REMOVE DEVICES USING THE SAFELY REMOVE HARDWARE ICON IN THE SYSTEM TRAY AT THE BOTTOM RIGHT OF YOUR SCREEN.
- IF THE DIALOG BOX STATES THAT THE DEVICE CANNOT BE REMOVED, YOU MUST SAVE ALL OF YOUR OPEN FILES, CLOSE ANY OPEN APPLICATIONS AND SHUT DOWN YOUR Tablet PC.

To remove an ExpressCard, follow these steps:

- 1** Unlock the card from the slot by pressing the eject button to the right of the slot in which the card is located. When pressed, the button will pop out.
- 2** Firmly press the button again until it is flush with the Tablet PC. This will eject the card slightly out of the slot allowing you to remove the card.

Memory Upgrade Module

Your Fujitsu LIFEBOOK Tablet PC comes with a minimum of 1 GB of high speed Double Data Rate Synchronous Dynamic RAM (DDR3-1333 SDRAM) factory installed. To increase your Tablet PC's memory capacity, you may install an additional memory upgrade module. The memory upgrade must be a dual-in-line (DIMM) SDRAM module. To ensure 100% compatibility, purchase the SDRAM module only from the Fujitsu web store at www.shopfujitsu.com.



- DO NOT REMOVE ANY SCREWS FROM THE MEMORY UPGRADE MODULE COMPARTMENT EXCEPT THE ONES SPECIFICALLY SHOWN IN THE DIRECTIONS FOR INSTALLING AND REMOVING THE MEMORY UPGRADE MODULE.
- THE MEMORY UPGRADE MODULE CAN BE SEVERELY DAMAGED BY ELECTROSTATIC DISCHARGE (ESD). TO MINIMIZE RISK TO THE MODULE, OBSERVE THE FOLLOWING PRECAUTIONS:
 - BEFORE HANDLING A MEMORY MODULE, TOUCH A GROUNDED METAL OBJECT TO DISCHARGE STATIC ELECTRICITY BUILT UP IN YOUR BODY.
 - WHEN INSTALLING OR REMOVING A MEMORY MODULE, HOLD IT BY THE EDGE SO AS NOT TO TOUCH ANY CONTACTS OR CHIPS. BE CAREFUL NOT TO TOUCH ANY INTERNAL COMPUTER TERMINALS OR COMPONENTS; THE OIL FROM YOUR FINGERS COULD CAUSE A SHORT TO THE COMPONENTS.
 - BE SURE TO POWER DOWN YOUR SYSTEM BEFORE ADDING OR REMOVING MEMORY MODULES. EVEN IF THE SYSTEM IS IN HIBERNATE OR SLEEP STATES, DATA COULD BE LOST OR THE MEMORY COULD BE DAMAGED IF POWER IS STILL AVAILABLE TO THE SYSTEM.

Installing Memory Upgrade Modules

- 1** Turn off power to your Tablet PC, remove any power adapter (AC or auto/airline). Remove the battery.
- 2** Make sure that all the connector covers are closed.
- 3** Turn the Tablet PC bottom side up, and remove the screws from the memory upgrade module compartment.
- 4** Slide the cover towards the battery compartment slightly, then lift it and remove it (Figure 38).
- 5** Remove the memory upgrade module from the static guarded sleeve.
- 6** Align the memory upgrade module with the part side up. Align the connector edge of the memory upgrade module with the connector slot in the compartment.(Figure 39)

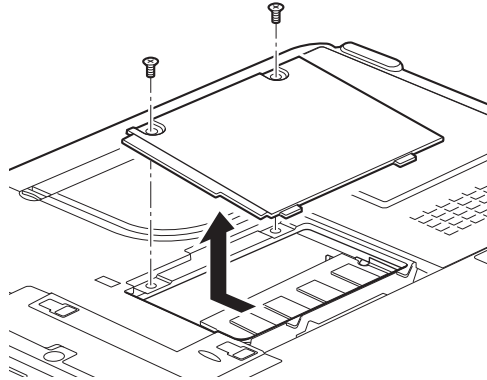


Figure 38. Opening Memory Compartment

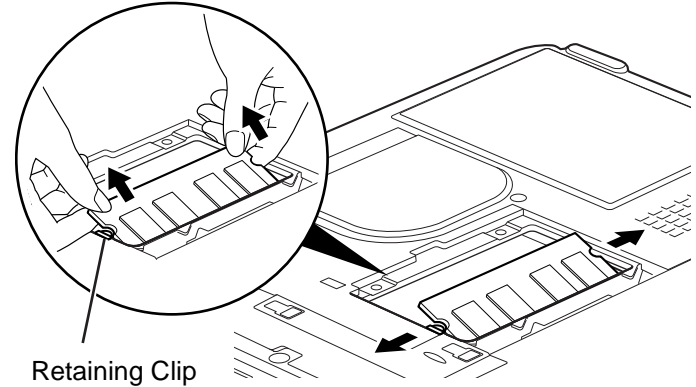


Figure 39. Installing a Second Memory Module

- 7** Insert the memory upgrade module at a 45° angle. Press the connector edge of the module firmly down and into the connector until it lodges under the retaining clip. You'll hear a click when it is properly in place.
- 8** Replace the cover and reinstall the screws.



THE MEMORY UPGRADE MODULE IS NOT SOMETHING YOU ROUTINELY REMOVE FROM YOUR TABLET PC. ONCE IT IS INSTALLED, YOU CAN LEAVE IT IN PLACE UNLESS YOU WANT TO CHANGE SYSTEM MEMORY CAPACITY.

Removing a Memory Upgrade Module

- 1 Perform steps 1 through 4 of Installing a Memory Upgrade Module.
- 2 Pull the clips sideways away from each side of the memory upgrade module at the same time.
- 3 While holding the clips out, remove the module by lifting it up and pulling it away from your Tablet PC.
- 4 Store the memory upgrade module in a static guarded sleeve.

Replace the cover and reinstall the screws.

Checking the Memory Capacity

Once you have changed the system memory capacity by replacing the installed module with a larger one, be sure to check that your Tablet PC has recognized the change.

- If you are in Control Panel Category view, check the memory capacity by clicking [Start] -> Control Panel -> System and Security -> System -> **View amount of RAM and processor speed**. The amount of memory is displayed next to “Memory - RAM:”
- If you are in one of the icon views, check the memory capacity by clicking [Start] -> Control Panel -> System. The amount of memory is displayed next to “Memory - RAM:”

There may be a variation between the actual memory size and what is displayed. This is possible if your system is configured with an integrated Intel Graphics Media Accelerator which dynamically allocates system memory to accelerate graphics performance.



IF THE TOTAL MEMORY DISPLAYED IS INCORRECT, CHECK THAT YOUR MEMORY UPGRADE MODULE IS PROPERLY INSTALLED. (IF THE MODULE IS PROPERLY INSTALLED AND THE CAPACITY IS STILL NOT CORRECTLY RECOGNIZED, SEE TROUBLESHOOTING ON PAGE 106.)

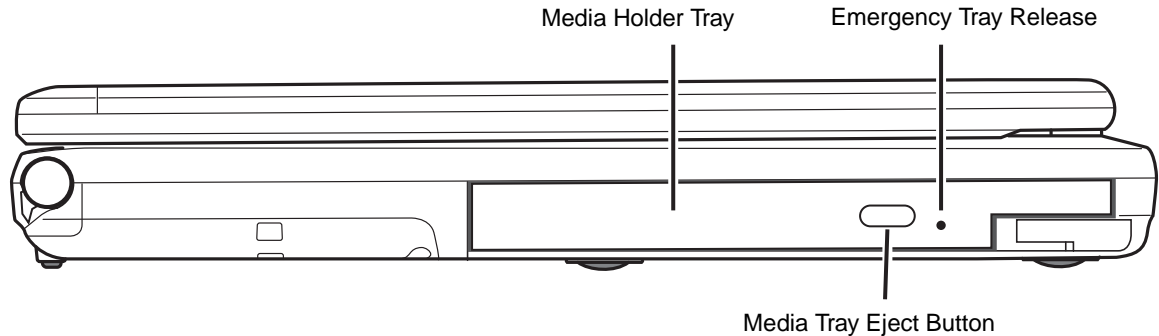


Figure 40. Optical Drive

Optical Drive

There is a variety of media available to use with your Multi-Format DVD Writer or Blu-ray Triple Writer, also known as “optical drives”.

Your system may contain one of the following optical drives:

Dual-Layer Multi-Format DVD Writer: This drive allows you to access movies, software, and audio DVD/CDs as well as to read and write to CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW, and DVD RAM discs. The dual-layer architecture allows you to record up to 8.5 GB of data on DVD+R discs.

Blu-ray Triple Writer: The Blu-ray Triple Writer allows you to read and write to CDs, DVDs and Blu-ray discs™. The Triple Writer can store up to 25 GB of data on a single-layer Blu-ray disc. That’s the equivalent of 2.5 hours of high-definition or 12 hours of standard definition video.

Media Player Software

Depending upon which drive you have, the optical drives and media player software allows you to play DVD and Blu-ray movies and music CDs on your Tablet PC. The media player includes controls which allow you to take full advantage of the features of a movie, as well as standard features such as fast forward, fast reverse, pause, etc. With this drive you can also burn onto recordable DVD-R/RW, DVD+R/RW, CD-R/RW, or BD discs, depending upon which drive you have.



- DO NOT OPERATE YOUR OPTICAL DRIVE UNLESS YOUR LIFEBOOK Tablet PC IS SITTING ON A FLAT SURFACE. USING A DRIVE WHEN THE SYSTEM IS NOT LEVEL MAY DAMAGE THE DRIVE OR PREVENT PROPER OPERATION.
- PROLONGED USE OF THE OPTICAL DRIVE, SUCH AS WATCHING A DVD MOVIE, WILL SUBSTANTIALLY REDUCE YOUR BATTERY LIFE IF NO EXTERNAL POWER SOURCE IS ATTACHED.

Loading Media on Your Drive

To load a disc into your optical drive:

- 1 Push and release the eject button on the front of the optical drive to open the holder tray. The tray will come out of the LIFEBOOK Tablet PC a short distance.
- 2 Gently pull the tray out until a media disc can easily be placed in the tray.



- YOU SHOULD PERIODICALLY CHECK THE FUJITSU WEBSITE AT US.FUJITSU.COM/COMPUTERS FOR THE MOST CURRENT DRIVERS.
- ALL LIFEBOOK DVD PLAYERS ARE SET TO PLAY DVD TITLES WITH REGION CODE NUMBER 1 WHICH IS SPECIFIED FOR THE NORTH AMERICAN MARKET. THE REGION NUMBER IS A REGIONAL RESTRICTION CODE DEFINED BY THE DVD FORUM ACTING ON HOLLYWOOD REQUIREMENTS. DIFFERENT REGION CODES ARE RECORDED ON VIDEO DVD TITLES FOR PUBLICATION IN DIFFERENT AREAS OF THE WORLD. IF THE REGIONAL CODE OF THE DVD PLAYER DOES NOT MATCH THE REGIONAL CODES ON THE TITLES, THEN PLAYBACK IS IMPOSSIBLE.
- YOU CAN CHANGE THE REGION CODE ON THE DVD PLAYER USING THE PROPERTIES MENU OF THE DVD SOFTWARE. NOTE, HOWEVER, THAT **YOU CAN ONLY CHANGE THE REGION CODE UP TO FOUR TIMES**. AFTER THE 4TH CHANGE, THE LAST CODE ENTERED BECOMES PERMANENT, AND CANNOT BE CHANGED.

- 3 Place the media into the tray, label side up, with the hole in the center of the disc. Snap the disc onto the raised circle in the center of the tray, and then gently push the holder tray back in until you hear a click



IF YOU HAVE DISABLED THE AUTO INSERT NOTIFICATION FUNCTION, YOU WILL HAVE TO START THE DRIVE EITHER BY USING MY COMPUTER OR FROM WITHIN WINDOWS EXPLORER, SINCE YOUR Tablet PC WILL NOT AUTOMATICALLY RECOGNIZE THAT MEDIA HAS BEEN LOADED.

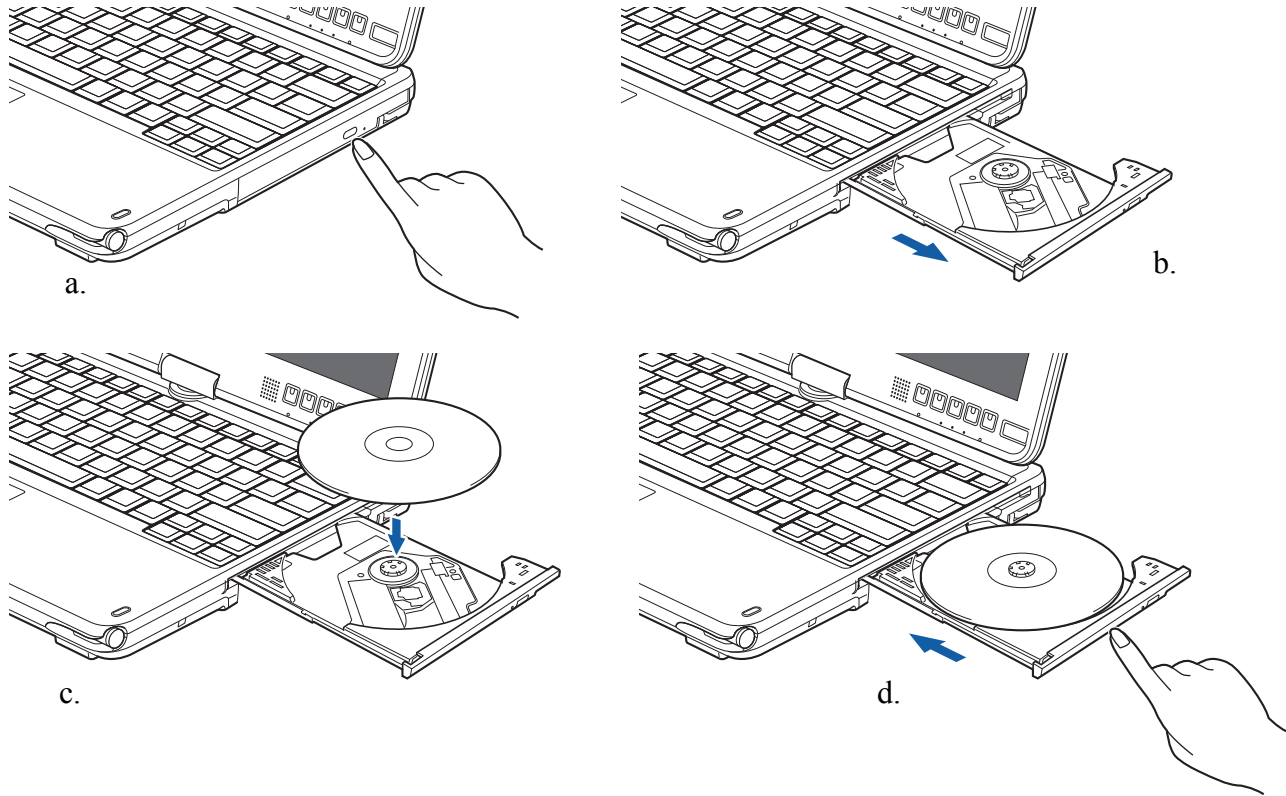


Figure 41. Loading/Ejecting Media

Removing Media

- 1 Push and release the eject button on the front of the optical drive. This will stop the drive and the holder tray will come out of the LIFEBOOK a short distance.
- 2 Gently pull the tray out until the disc can easily be removed from the tray.
- 3 Carefully remove the media disc from the holder tray.
- 4 Gently push the holder tray back in until you hear a click.

Emergency Optical Drive Tray Release

If for some reason the eject button fails, you can open the media tray with a paper clip or similar tool inserted into the eject hole in the right side of the front of the tray. Straighten one side of a paper clip and push it gently into the hole. The tray will pop out.

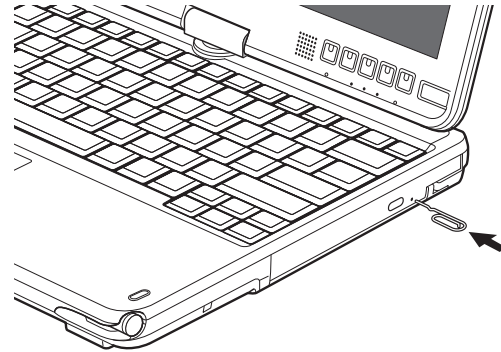


Figure 42. Emergency Tray Release

Using the Media Player Software



DEPENDING UPON ITS CONFIGURATION, YOUR SYSTEM MAY NOT HAVE THE MEDIA PLAYER SOFTWARE PRE-INSTALLED. IF IT IS NOT INSTALLED, REFERENCE THE DOCUMENTATION THAT ACCOMPANIES THE MEDIA APPLICATION.

Starting a DVD or Blu-ray Movie

- 1 Insert the disc into the optical drive of the Tablet PC. If the CD AutoRun feature activates, skip Step 2.
- 2 The first time you insert a movie into the media tray, you will be prompted to select what you want the system to do when discs are inserted (e.g., start automatically or wait for a prompt). Until you make a selection, you will receive the same prompt whenever you insert a disc.
- 3 Click **OK** to close the About DVD Player Performance dialog box and the movie will begin.

Opening the Media Player Control Panel

With most discs, you have the option of altering how the movie should play and what you wish to view. You can do this by using the media player control panel and the mouse.

- 1 Right-click on the movie screen to open a dropdown menu for options.
- 2 Select **View**, then **Player** for all controls available. This will open the control panel at the bottom of the screen.

Using the Media Player Control Panel

The media player software allows you to watch the movie much like a VCR player. You can pause, rewind, fast-forward and stop the movie at any point.

- 1 To pause the movie, click the on-screen **II** button.
- 2 To rewind the movie, click the **◀◀** button to rewind to a specific portion of the movie, or the **◀** button to return to the opening screen.
- 3 To fast-forward the movie, click the **▶▶** button to forward to a specific portion of the movie, or the **▶** button to jump to the ending credits.
- 4 To stop the movie, click the **■** button.

Exiting the Media Player

- 1 Click the **×** located in the upper right corner of the title bar. This will open a media player dialog box.
- 2 Click **Yes** to stop and exit the movie, or **No** to close the media player dialog box and return to the movie.

Using Media Player on Battery Power

Since optical drives consume a lot of power, your overall battery life will be significantly shorter when operating the optical drive continuously (such as watching a DVD or Blu-ray movie) than during standard operation.



- MANY MOVIE RUN-TIMES ARE LONGER THAN YOUR SYSTEM CAN SUPPORT ON A SINGLE BATTERY. IF YOU ARE WATCHING A DVD MOVIE ON BATTERY POWER YOU MAY NEED TO SWAP IN AN ADDITIONAL, CHARGED BATTERY OR ATTACH AC POWER DURING THE MOVIE TO VIEW IT IN ITS ENTIRETY.
- AN ADDITIONAL FULLY-CHARGED BATTERY IS HIGHLY RECOMMENDED IF YOU WILL BE WATCHING DVD MOVIES ON BATTERY POWER. IF YOU DON'T HAVE AN ADDITIONAL BATTERY, YOU MAY PURCHASE ONE EITHER ONLINE AT: [HTTP://WWW.COMPUTERS.US.FUJITSU.COM](http://www.computers.us.fujitsu.com) OR BY CALLING 1-877-372-3473.

To Watch a Movie on Battery Power:

- 1 Have an additional full-charged battery or your AC adapter ready for use.
- 2 Start watching your movie.
- 3 When the low battery warning occurs, immediately stop the movie and exit the media player.



IF YOU DO NOT STOP THE MEDIA PLAYER QUICKLY AND THE LIFEBOOK Tablet PC ATTEMPTS TO AUTO-SUSPEND (CRITICAL BATTERY LOW STATE) THE LIFEBOOK Tablet PC WILL SHUT DOWN IMPROPERLY. IF THIS OCCURS, YOU MAY NEED TO PERFORM A HARD RESET AND FOLLOW THE INSTRUCTIONS, IF ANY, PRESENTED TO YOU BEFORE THE SYSTEM WILL REBOOT.

- 4 Power down your Tablet PC and replace the discharged battery with an additional fully-charged battery. If you do not have an additional battery, you may attach AC power as soon as you see the low battery warning.
- 5 Resume operation by pressing the Suspend button again. This is not required if you attached AC power without entering standby mode.
- 6 Restart your media player, locate and skip to the chapter of the movie you were last watching, then continue watching your movie.



SOME SHORTER MOVIES MAY NOT REQUIRE YOU TO SWAP BATTERIES OR ATTACH AC POWER TO COMPLETE THEM. HOWEVER, IT IS BEST TO BE PREPARED SINCE ACTUAL BATTERY LIFE WHILE OPERATING THE OPTICAL DRIVE CANNOT BE GUARANTEED.

Device Ports

Your Fujitsu LIFEBOOK Tablet PC and the optional Port Replicator come equipped with multiple ports to which you can connect external devices including: disk drives, keyboards, printers, etc.

Internal LAN (RJ-45) Jack

The internal LAN (RJ-45) jack is used for a Gigabit (10Base-T/100Base-Tx/1000Base-T) Ethernet LAN connection. You may need to configure your Tablet PC to work with your particular network. (Please refer to your network administrator for information on your network configuration.) To connect the LAN cable follow these easy steps:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.
- 3 Plug the other end of the cable into a LAN outlet.

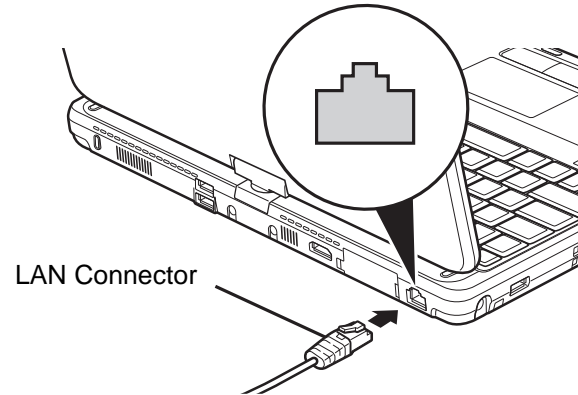


Figure 43. Connecting the LAN

Port Replicator Connector

The port replicator connector located on the bottom of your system is used for the connection of your Tablet PC to an optional port replicator. (See Figure 6 for location). In order to connect your Tablet PC to this device, follow the instructions that came with your port replicator.

Universal Serial Bus Ports

The Universal Serial Bus (USB) ports allow you to connect USB devices such as external game pads, pointing devices, keyboards and/or speakers. There are two USB 2.0 ports and one USB 3.0 port on your Tablet PC: the USB 3.0 port is on the left side and the two USB 2.0 ports are on the rear. Note that the USB 3.0 port is also an Anytime USB Charge port. .

In order to connect a USB device follow these steps:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.

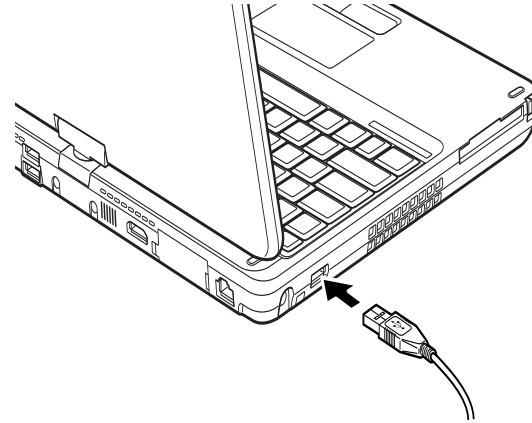


Figure 44. Connecting a USB Device

There are two different types of USB ports on this system: USB 2.0 and USB 3.0 Anytime USB Charge. To differentiate between them, please note the following:



- THE INSIDE OF A USB 3.0 PORT IS BLUE IN COLOR.
- THE ICON ASSOCIATED WITH THE ANYTIME USB CHARGE PORT HAS A PLUG ICON NEXT TO THE USB ICON.

DUE TO THE ONGOING CHANGES IN USB TECHNOLOGY AND STANDARDS, NOT ALL USB DEVICES AND/OR DRIVERS ARE GUARANTEED TO WORK.

IEEE 1394 Port

The 4-pin 1394 port allows you to connect digital devices that are compliant with IEEE 1394 standard. The IEEE 1394 standard is easy to use, connect, and disconnect. This port can allow up to 400 Mbps transfer rate. A third-party application may be required to operate your device with the 1394 port.



THE 1394 PORT USED IN THIS SYSTEM USES A FOUR-PIN CONFIGURATION. IF YOU INTEND TO INTERFACE WITH DEVICES WHICH USE A SIX-PIN CONFIGURATION, YOU WILL NEED TO PURCHASE AN ADAPTER.

In order to connect a 1394 device, follow these steps:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.

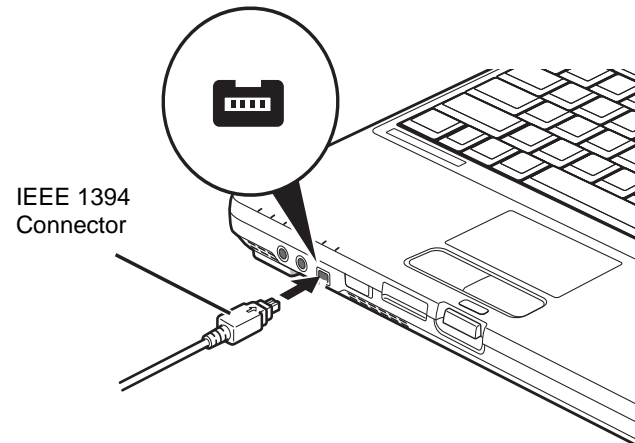


Figure 45. Connecting an IEEE1394 Device

Headphone Jack

The headphone jack allows you to connect headphones or powered external speakers to your Tablet PC. Your headphones or speakers must be equipped with a 1/8" (3.5 mm) stereo mini-plug. In order to connect headphones or speakers follow these easy steps:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.

Microphone Jack

The microphone jack allows you to connect an external microphone. Your microphone must be equipped with a 1/8" (3.5 mm) mono mini-plug in order to fit into the microphone jack of your Tablet PC. In order to connect a microphone follow these easy steps:

- 1 Align the connector with the port opening and push the connector into the port until it is seated.

HDMI Port

The High-Definition Multimedia Interface (HDMI) port is a digital audio/video interface over which uncompressed streams can be transmitted. HDMI is used to connect compatible digital devices with your computer (such as big-screen TVs and video recorders). See the note on the next page regarding the steps for selecting the HDMI device using keyboard shortcuts.

To connect an HDMI device:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.

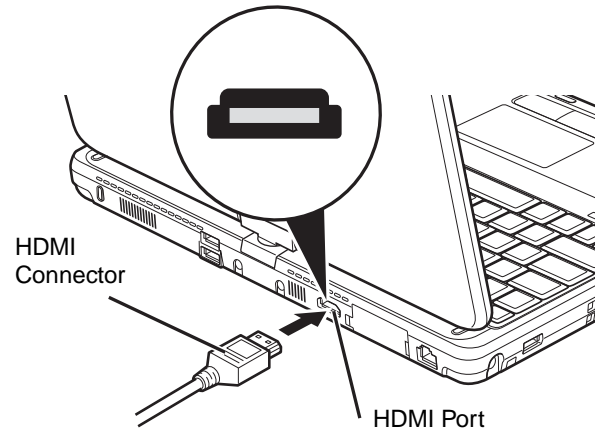


Figure 46. Connecting an HDMI device

External Video Port

The external video port allows you to connect an external monitor or LCD projector. In order to connect an external video device, follow these easy steps:

- 1 Align the connector with the port opening.
- 2 Push the connector into the port until it is seated.
- 3 Tighten the two hold-down screws, located on each end of the connector.



PRESSING THE [FN] + [F10] KEYS ALLOWS YOU TO CHANGE YOUR SELECTION OF WHERE TO SEND YOUR DISPLAY VIDEO. THE ORDER IS DETERMINED BY WHICH TYPE OF EXTERNAL VIDEO DEVICE(S) IS CONNECTED. EACH TIME YOU PRESS THE KEY COMBINATION, YOU WILL STEP TO THE NEXT CHOICE.

IF YOU ONLY HAVE AN EXTERNAL CRT CONNECTED, THE ORDER IS: INTERNAL DISPLAY -> EXTERNAL CRT -> SIMULTANEOUS DISPLAY -> INTERNAL DISPLAY.

IF YOU ONLY HAVE AN HDMI DEVICE CONNECTED, THE ORDER IS: INTERNAL DISPLAY -> HDMI DISPLAY -> SIMULTANEOUS DISPLAY -> INTERNAL DISPLAY.

IF YOU HAVE EXTERNAL CRT AND HDMI DEVICES CONNECTED, THE ORDER IS: INTERNAL DISPLAY -> EXTERNAL CRT -> SIMULTANEOUS INTERNAL AND EXTERNAL CRT -> HDMI DISPLAY - SIMULTANEOUS INTERNAL AND HDMI DISPLAY -> INTERNAL DISPLAY.

IF YOU HAVE AN EXTERNAL CRT AND DVI DEVICES CONNECTED TO THE PORT REPLICATOR, THE ORDER IS: INTERNAL DISPLAY -> EXTERNAL CRT -> SIMULTANEOUS INTERNAL AND EXTERNAL CRT -> DVI DISPLAY -> SIMULTANEOUS INTERNAL AND DVI DISPLAY. -> INTERNAL DISPLAY.

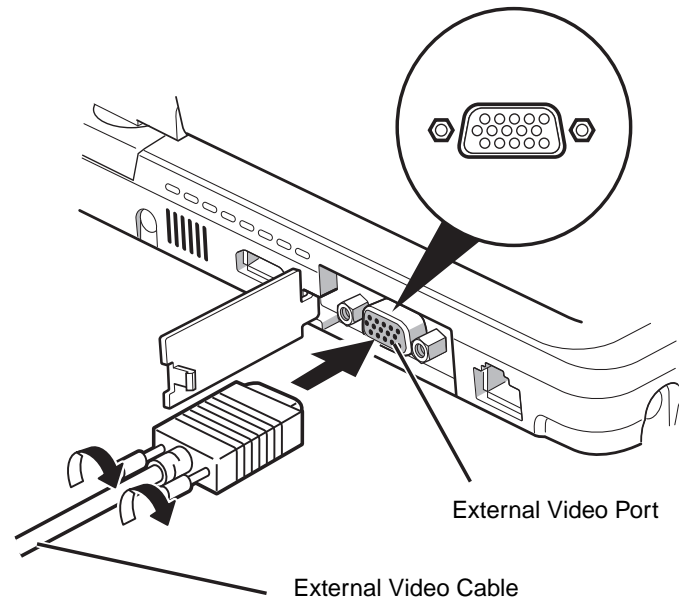


Figure 47. Connecting an External Video Device



Chapter 4

Troubleshooting Your LIFEBOOK

Troubleshooting

There may be occasions when you encounter simple setup or operating problems that you can solve on the spot, or problems with peripheral devices that can be solved by replacing the device. The information in this section helps you isolate and resolve some of these straightforward issues and identify failures that require service.

Identifying the Problem

If you encounter a problem, go through the following procedure before pursuing complex troubleshooting:

- 1 Turn off your LIFEBOOK Tablet PC.
- 2 Make sure the AC adapter is plugged into your Tablet PC and to an active AC power source.
- 3 Make sure that any card installed in the ExpressCard slot is seated properly. You can also remove the card from the slot, thus eliminating it as a possible cause of failure.
- 4 Make sure that any devices connected to the external connectors are plugged in properly. You can also disconnect such devices, thus eliminating them as possible causes of failure.
- 5 Turn on your Tablet PC. Make sure it has been off at least 10 seconds before you turn it back on.
- 6 Go through the boot sequence.

- 7** If the problem has not been resolved, refer to the Troubleshooting Table, that follows, for more detailed troubleshooting information.



IF YOU KEEP NOTES ABOUT WHAT YOU HAVE TRIED, YOUR SUPPORT REPRESENTATIVE MAY BE ABLE TO HELP YOU MORE QUICKLY BY GIVING ADDITIONAL SUGGESTIONS OVER THE PHONE.

- 8** If you have tried the solutions suggested in the Troubleshooting Table without success, contact your support representative:

Toll free: 1-800-8Fujitsu (1-800-838-5487)

E-mail: 8fujitsu@us.fujitsu.com

Web site: <http://www.computers.us.fujitsu.com/support>.

Before you place the call, you should have the following information ready so that the customer support representative can provide you with the fastest possible solution:

- Product name
- Product configuration number
- Product serial number
- Purchase date
- Conditions under which the problem occurred
- Any error messages that have occurred
- Type of device connected, if any

See the Configuration Label on the bottom of your Tablet PC for configuration and serial numbers.

Specific Problems

Using the Troubleshooting Table

When you have problems with your LIFEBOOK Tablet PC, try to find the symptoms under the Problem column of the troubleshooting table for the feature giving you difficulty. You will find a description of common causes for that symptom under the column Possible Cause and what, if anything, you can do to correct the condition under Possible Solutions. All possible causes or solutions may not apply to your Tablet PC.

Troubleshooting Table

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ProblemPage

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Miscellaneous Problems	page 117

Problem	Possible Cause	Possible Solutions
Audio Problems		
There is no sound coming from the built-in speaker.	The volume is turned too low.	Adjust the volume control on your Tablet PC and operating system. Use the [Fn+F9] key combination on your keyboard. Pressing [F9] repeatedly while holding [Fn] will increase the volume of your Tablet PC.
	The software volume control is set too low.	Manually adjusting the volume (i.e., keyboard "hot keys") should dynamically adjust the volume of the operating system (see above). If that doesn't work, adjust the sound volume control settings in your software or application.
	Headphones are plugged into your Tablet PC.	Plugging in headphones disables the built-in speakers. Remove the headphones.
	BIOS audio settings are incorrect.	Set the BIOS setup utility to the default values within the Multimedia Device Configuration menu. See <i>"BIOS Setup Utility"</i> on page 73.
	Software driver is not configured correctly.	The audio driver may be installed or reinstalled using the Drivers and Applications CD that came with your Fujitsu LIFEBOOK. Refer to your application and operating system documentation for help.
	The speakers have been muted using the Volume icon in the system tray.	Click the Volume icon in the system tray on the bottom right of the screen. (It looks like a speaker). If the Mute box has a red circle on it, click on it to unselect it. You can also use the [Fn+F3] key combination to toggle the volume on and off. Pressing [F3] while holding [Fn] will toggle the audio mute.
Optical Drive Problems (optional external device)		
LIFEBOOK Tablet PC fails to recognize DVD/CD-RW/CD-ROM's.	The disc is not pushed down onto raised center circle of the drive.	Open optical drive tray and re-install the disc properly.
	Incorrect DVD Player or no DVD Player software is installed.	Install DVD Player software. (See <i>"Media Player Software"</i> on page 95 for more information.)

Problem	Possible Cause	Possible Solutions
LIFEBOOK Tablet PC fails to recognize DVD/CD-RW/CD-ROM's. (continued)	Optical drive tray is not latched shut.	Push on the front of the optical drive tray until it latches. If that doesn't work, pull out the modular drive latch to remove the device from the bay, then re-insert the drive until it latched; this ensures that the drive is properly seated.
	Wrong drive designator was used for the disc in the application.	Verify the drive designator used by the application is the same as the one used by the operating system. When the operating system is booted from a DVD/CD, drive designations are automatically adjusted. Note that the drive designation can be changed with the Disk Management tool located at Administrative Tools -> Computer Management.
	DVD/CD-RW/CD-ROM is dirty or defective.	Wipe the disc with a non-abrasive CD cleaning cloth and reinsert. If it still will not work try another DVD/CD-RW/CD-ROM in the drive.
The drive access indicator on the Status Indicator Panel blinks regularly with no disc in the tray or the drive is not installed.	The Windows auto insertion function is active and is checking to see if a disc is ready to run.	This is normal. However, you may disable this feature.
Port Replicator Problems		
Note: Be sure to power down your LIFEBOOK Tablet PC before adding a printer to the Port Replicator parallel port.		
Tablet PC does not turn on when installed in the optional Port Replicator	Port Replicator AC adapter is not plugged in.	Provide power to the Port Replicator.
	Tablet PC is not properly seated in the Port Replicator.	Remove and re-dock your LIFEBOOK Tablet PC.
Hard Drive Problems		
You cannot access your hard drive.	The wrong drive designator was used by an application when a bootable disc was used to start the Tablet PC.	Verify drive designator used by application is in use by the operating system. When the operating system is booted from a CD, drive designations are automatically adjusted.

Problem	Possible Cause	Possible Solutions
You cannot access your hard drive. (continued)	Security is set so your operating system cannot be started without a password.	Verify your password and security settings.
Keyboard or Mouse Problems		
The built-in keyboard does not seem to work.	The Tablet PC has gone into Sleep mode.	Push the Power/Suspend/Resume switch.
	Your application has locked out your keyboard.	Try to use your integrated pointing device to restart your system.
You have installed an external keyboard or mouse, and it does not seem to work.	Your external device is not properly installed.	Re-install your device. See <i>“Device Ports” on page 100.</i>
	Your operating system is not set up with correct software driver for that device.	Check your device and operating system documentation and activate the proper driver.
You have connected an external keyboard or a mouse and it seems to be locking up the system.	Your operating system is not setup with correct software driver for that device.	Check your device and operating system documentation and activate the proper driver.
	Your system has crashed.	Try to restart your Tablet PC.
Memory Problems		
Your System screen in the Control Panel does not show the correct amount of installed memory.	Your memory upgrade module is not properly installed.	Remove and re-install your memory upgrade module. See <i>“Memory Upgrade Module” on page 91.</i>
	You have a memory failure.	Check for Power On Self Test (POST) messages. See <i>“Power On Self Test Messages” on page 118.</i>
USB Device Problems		
Your system does not recognize a USB device you have installed, or the device does not seem to work properly.	The device is not properly installed.	Remove and re-install the device. See <i>“Device Ports” on page 100.</i>

Problem	Possible Cause	Possible Solutions
Your system does not recognize a USB device you have installed, or the device does not seem to work properly. (continued)	The device may have been installed while an application was running, so your system is not aware of its installation.	Close the application and restart your Tablet PC.
	Your device may not have the correct software driver active.	See your software documentation and activate the correct driver.
ExpressCard Problems		
A card inserted in the ExpressCard slot does not work or is locking up the system.	Card is not properly installed.	Remove and re-install the card. See <i>“ExpressCards” on page 89.</i>
	Card may have been installed while an application was running, so your Tablet PC is not aware of its installation.	Close the application and restart your Tablet PC.
	Your software may not have the correct driver active.	See your software documentation and activate the correct driver.
Power Failures		
You turn on your LIFE-BOOK Tablet PC and nothing seems to happen.	The installed battery is completely discharged or there is no Power adapter (AC or Auto/Airline) installed.	Check the Status Indicator Panel to determine the presence and condition of the battery. See <i>“Status Indicator Panel” on page 30.</i> Install a charged battery or a Power adapter.
	The battery is installed but is faulty.	Use the Status Indicator panel to verify the presence and condition of the battery. See <i>“Status Indicator Panel” on page 30.</i> If the battery indicates a short, remove it and operate from another power source or replace that battery.
	The battery is low.	Check the Status Indicator Panel to determine the presence and condition of the battery. See <i>“Status Indicator Panel” on page 30.</i> Use a Power adapter to operate until a battery is charged or install a charged battery.

Problem	Possible Cause	Possible Solutions
You turn on your LIFE-BOOK Tablet PC and nothing seems to happen. (continued)	The power adapter (AC or auto/airline) is not plugged in properly.	Verify that your adapter is connected correctly. See <i>“Power Sources”</i> on page 69.
	The power adapter (AC or auto/airline) has no power from the AC outlet, airplane jack, or car cigarette lighter.	Move the AC cord to a different outlet, check for a line switch or tripped circuit breaker for the AC outlet. If you are using an auto/airline adapter in a car make sure the ignition switch is in the On or Accessories position.
	The power adapter (AC or auto/airline) is faulty.	Try a different power adapter.
Your LIFEBOOK Tablet PC turns off all by itself.	The power management parameters are set for auto timeouts which are too short for your operating needs.	Press any button on the keyboard, or move the mouse to restore operation. If that fails, push the Power/Suspend/Resume switch. Check your power management settings, or close your applications and go to the Power Options located in the Control Panel to adjust the timeout values to better suit your needs.
	You ignored a low battery alarm until the battery entered Dead Battery Suspend mode.	Install a power adapter, then push the Power/Suspend/Resume switch. See <i>“Power Sources”</i> on page 69.
	You have a battery failure.	Verify the condition of the battery using the Status Indicator panel. If the battery is shorted, replace or remove it. See <i>“Status Indicator Panel”</i> on page 30.
	Your power adapter has failed or lost its power source.	Make sure the adapter is plugged in and the outlet has power.
Your Tablet PC will not work on battery alone.	The installed battery is dead.	Replace the battery with a charged one or install a power adapter.
	No battery is installed.	Install a charged battery.
	The battery is improperly installed.	Verify that the battery is properly connected by re-installing it.

Problem	Possible Cause	Possible Solutions
Your Tablet PC will not work on battery alone. (continued)	Your installed battery is faulty.	Verify the condition of the battery using the Status Indicator panel and replace or remove any batteries that are shorted. See <i>"Status Indicator Panel"</i> on page 30.
The battery seems to discharge too quickly.	The power savings features may be disabled.	Check the Power Options menu settings and adjust according to your operating needs.
	You're running an application that uses a lot of power due to frequent optical drive access, or use of a LAN ExpressCard, WLAN, or Bluetooth device.	Use a power adapter for this application when at all possible.
	The brightness is turned all the way up.	Turn down the brightness adjustment. The higher the brightness the more power your display uses.
	The battery is very old.	Replace the battery.
	The battery was exposed to high temperatures.	Replace the battery.
	The battery is too hot or too cold.	Restore the Tablet PC to normal operating temperature. Charging icon on the Status Indicator panel will flash when battery is outside of operating range.
Shutdown and Startup Problems		
The Suspend/Resume button does not work.	Suspend/Resume button is disabled.	To enable the button, go to the Control Panel -> Power Options and click on the Advanced tab. In the Power buttons area, select the "Change what the power button does" option.
	There may be application software. conflict	Close all applications and try the button again.
The system powers up and displays power on information, but fails to load the operating system.	You have a secured system requiring a password to load your operating system.	Make sure you have the right password. Enter the setup utility and verify the Security settings and modify them as accordingly. See <i>"BIOS Setup Utility"</i> on page 73.

Problem	Possible Cause	Possible Solutions
<p>The system powers up, and displays power on information, but fails to load the operating system. (continued)</p>	<p>The boot sequence settings of the setup utility are not compatible with your configuration.</p>	<p>Set the operating source by pressing the [ESC] key while the Fujitsu logo is on screen or use the [F2] key and enter the setup utility and adjust the source settings from the Boot menu. See <i>“BIOS Setup Utility” on page 73.</i></p>
	<p>Internal hard drive was not detected.</p>	<p>Use the BIOS setup utility to try to auto detect the internal hard drive.</p>
<p>An error message is displayed on the screen during the boot sequence.</p>	<p>Power On Self Test (POST) has detected a problem.</p>	<p>See the Power On Self Test (POST) messages to determine the meaning and severity of the problem. Not all messages are errors; some are simply status indicators. See <i>“Power On Self Test Messages” on page 118.</i></p>
<p>Your Tablet PC appears to change setup parameters when you start it.</p>	<p>BIOS setup changes were not saved when made and you exited the setup utility.</p>	<p>Make sure you select Save Changes And Exit when exiting the BIOS setup utility.</p>
	<p>The BIOS CMOS hold-up battery has failed.</p>	<p>Contact your support representative for repairs. This is not a user serviceable part but has a normal life of 3 to 5 years.</p>
<p>Your system display won't turn on when the system is turned on or has resumed.</p>	<p>You have installed the LIFEBOOK/Security Application panel.</p>	<p>Check the Status Indicator Panel for presence of the Security icon. If it is visible, enter your password See <i>“Status Indicator Panel” on page 30.</i></p>
<p>Video Problems</p>		
<p>The built-in display is blank when you turn on your LIFEBOOK Tablet PC.</p>	<p>Display angle and brightness settings are not adequate for your lighting conditions.</p>	<p>Move the display and the brightness control until you have adequate visibility. Pressing either the [F6] or [F7] keys while holding down the [Fn] key also allows you to change the brightness level of the display.</p>
	<p>Power management timeouts are set for short intervals and you didn't see the display go on and off again.</p>	<p>Press a keyboard button or move the mouse to restore operation. If that fails, push the Power/Suspend/Resume switch. (The display may be shut off by Sleep mode, Auto Suspend or Video Timeout)</p>

Problem	Possible Cause	Possible Solutions
The built-in display is blank when you turn on your LIFEBOOK Tablet PC. (continued)	The Tablet PC is set for an external monitor only.	Pressing [F10] while holding down the [Fn] key allows you to change your selection of where to send your display video. Each time you press the keys you will step to the next choice. The choices, in order are: built-in display only, external monitor only, both built-in display and external monitor.
The Tablet PC turned on with a series of beeps and the built-in display is blank.	Power On Self Test (POST) has detected a failure which does not allow the display to operate.	Contact your support representative.
The display goes blank by itself after you have been using it.	The Tablet PC has gone into Video timeout, Sleep mode, or Save-to-Disk mode because you have not used it for a period of time.	Press any button on the keyboard, or move the mouse to restore operation. If that fails, push the Power/Suspend/Resume switch. Check your power management settings, or close your applications and go to the Power Savings menu of the setup utility to adjust the timeout values to better suit your operation needs. See <i>“BIOS Setup Utility” on page 73.</i>
	The power management timeouts may be set for very short intervals and you failed to notice the display come on and go off again.	Press any button on the keyboard, or move the mouse to restore operation. If that fails, push the Power/Suspend/Resume switch. (The display may be shut off by Sleep Mode, Auto Suspend or Video Timeout)
Your display won't turn on when the system is turned on or when it has resumed.	The system may be password-protected.	Check the status indicator panel to verify that the Security icon is blinking. If it is blinking, enter your password.
The display does not close.	A foreign object, such as a paper clip, is stuck between the display and keyboard.	Remove all foreign objects from the keyboard.

Problem	Possible Cause	Possible Solutions
The display has bright or dark spots.	If the spots are very tiny and few in number, this is normal for a large LCD display.	This is normal; do nothing.
	If the spots are numerous or large enough to interfere with your operation needs.	Display is faulty; contact your support representative.
The Display is dark when on battery power.	The Power Management utility default is set on low brightness to conserve power.	Press [Fn] + [F7] to increase brightness or click the battery gauge, click on More power options , and select Adjust the display brightness .
You have connected an external monitor and it does not display any information.	Your BIOS setup is not set to enable your external monitor.	Toggle the video destination by pressing [Fn]+ [F10] together, or check your BIOS setup and enable your external monitor. (See the Video Features submenu, located within the Advanced Menu of the BIOS. See “ <i>BIOS Setup Utility</i> ” on page 73.
	Your external monitor is not properly installed.	Reinstall your device. See “ <i>External Video Port</i> ” on page 104.
	Your operating system is not setup with the correct software driver for that device.	Check your device and operating system documentation and activate the proper driver.
You have connected an external monitor and it does not come on.	Your external monitor is not compatible with your LIFE-BOOK Tablet PC.	See your monitor documentation and the External Monitor Support portions of the Specifications section. See “Specifications” on page 137.
Miscellaneous Problems		
Error message is displayed on the screen during the operation of an application.	Application software often has its own set of error message displays.	See your application manual and help displays screens for more information. Not all messages are errors some may simply be status.

Power On Self Test Messages

The following is a list of error-and-status messages that the Phoenix BIOS and/or your operating system can generate and an explanation of each message. Error messages are marked with an *. If an error message is displayed that is not in this list, write it down and check the operating system documentation on screen and in the manual. If you can find no reference to the message, contact a support representative.

***Invalid NVRAM Data**

Problem with NVRAM access. In the unlikely case that you see this message you may have a display problem. You can continue operating but should contact your support representative for more information.

***Keyboard controller error**

The keyboard controller test failed. You may have to replace your keyboard or keyboard controller but may be able to use an external keyboard until then. Contact your support representative.

***Keyboard not detected**

Keyboard not working. You may have to replace your keyboard or keyboard controller but may be able to use an external keyboard until then. Contact your support representative.

***Operating system not found**

Operating system cannot be located on either drive A: or drive C: Enter the setup utility and see if both the fixed disk, and drive A: are properly identified and that the boot sequence is set correctly. Unless you have changed your installation greatly, the operating system should be on drive C:.. If the setup utility is correctly set, your hard drive may be corrupted.

***Press <F1> to resume, <F2> to SETUP**

Displayed after any recoverable error message. Press [F1] key to Continue or [F2] key to Enter Setup.

***Real time clock error - Check date and time settings**

Real-time clock fails BIOS test. May require board repair. Contact your support representative.

***Fan error, system shutdown in 30s. Contact Fujitsu tech support**

Fan error occurred. Please contact your sales representative.

***Fan error occurred during previous boot.**

Fan error occurred during previous boot. Please contact your sales representative.

Restoring Your Pre-installed Software

It is very important that you create DVD copies of your Factory Image before beginning to use your system. To do so, follow the instructions below in the “Saving Your Factory Image” section.

Along with instructions on saving your Factory Image, this document outlines several other important procedures, such as making a system image, restoring your Factory Image and system images, managing your images, and restoring the partitions on a hard drive.



- IN ORDER TO INSTALL APPLICATIONS AND DRIVERS, MAKE COPIES OF FACTORY AND SYSTEM IMAGES, AND BURN DRIVERS AND APPLICATION RESTORE DISCS, APPLICATION MEDIA, AND BOOTABLE DISCS **YOU MUST HAVE AN INTERNAL OR EXTERNALLY CONNECTED WRITABLE DVD DRIVE.**
- **IT IS EXTREMELY IMPORTANT** THAT YOU COPY YOUR FACTORY IMAGE TO REMOVABLE MEDIA (E.G., DVD DISCS). FAILURE TO DO SO COULD RESULT IN AN INABILITY TO RESTORE THE IMAGE AT A FUTURE DATE.
- WE RECOMMEND THAT YOU USE DVD-R OR DVD+R DISCS FOR YOUR BACKUP, BUT SUPPORTED MEDIA* FOR IMAGE BACKUPS INCLUDE:
FOR FACTORY IMAGE, DAR, APPLICATION DATA, AND BOOTABLE DISC: DVD-R/+R.
FOR USER-CREATED BACKUP IMAGE: DVD-R/+R, DVD-RW/+RW, DVD-DL.

* DEPENDING UPON YOUR OPTICAL DRIVE AND MEDIA FORMAT USED, SOME MEDIA TYPES MAY BE INCOMPATIBLE FOR CREATING IMAGE BACKUPS.



DUE TO CERTAIN LICENSING REQUIREMENTS, SOME THIRD-PARTY APPLICATIONS WILL NEED TO BE INSTALLED SEPARATELY USING THE APPLICATION MEDIA BUNDLED WITH YOUR SYSTEM.

Saving your Factory Image

When you purchased your system, a copy of the pre-installed Factory Image was loaded into a hidden partition on your hard disk drive. Having a copy of the original Factory Image available to you means that in the event of system failure, you will be able to restore it to its original state.

After you launch the ClickMe! utility when you first start up your system, you should make a copy of the Factory Image to DVD discs. You will need several blank discs (DVD-R or DVD+R discs are recommended) in order to create the copy. After creating the copy, be sure to label the discs and keep them in a safe place to ensure they do not get damaged.

Creating Backup Images of Factory Image, DAR, and Discs



SOME CONFIGURATIONS OF CERTAIN LIFEBOOK MODELS DO NOT HAVE APPLICATIONS LOADED ON THE HARD DRIVE; RATHER, THEY ARE LOADED ON THE DAR DISC. PLEASE TAKE THAT INTO ACCOUNT WHEN READING THE FOLLOWING PROCEDURES.

Using the [Manage/Change] button, you can create backup images of the Factory Image, DAR, Application Disc, or Bootable Disc.

- 1 Launch My Recovery from the desktop icon.
- 2 Select [Manage/Create] -> [Backup Images]
The Backup Images menu displays a list from which you can choose which type of disc you want to burn: Bootable Disc, Drivers and Applications Restore Disc, Application Disc, or Recovery Disc.
- 3 Select *Recovery Disc*, then click [Make DVD]
- 4 Confirm that the # box has “2” (Note that in some cases the box may display a larger number for the factory image, depending upon its size.)
- 5 The message “Recovery Disc #1. will be created. Enter your comments and number of media on the DVD”. Click [YES] to burn the Factory Image.



IN THE FOLLOWING STEP, DO NOT USE THE SYSTEM UNTIL THE COPY IS COMPLETE.

- 6 While the copy is being made, a “Writing to the media” screen displays a progress bar. When the copy is complete, a dialog will appear informing you of the successful completion of the backup.

- 7 Repeat the process for the remaining three images on disc (Bootable Disc, Drivers and Applications Restore Disc, and Application Disc). The number of images available may vary depending on your system model; some models do not have the applications loaded on the hard drive.

Recovering Your Factory Image

In the event you need to restore your original Factory Image, perform the following steps. Note that there may be some third-party applications that need to be installed from the application media bundled with your system.



ALL USER-CREATED DATA WILL BE DELETED FROM YOUR SYSTEM WHEN THE FACTORY IMAGE IS RESTORED.

In order to recover your Factory Image, perform the steps outlined in “Running Recovery and Utility from hard disk” on page 3.

Backing Up a System Image

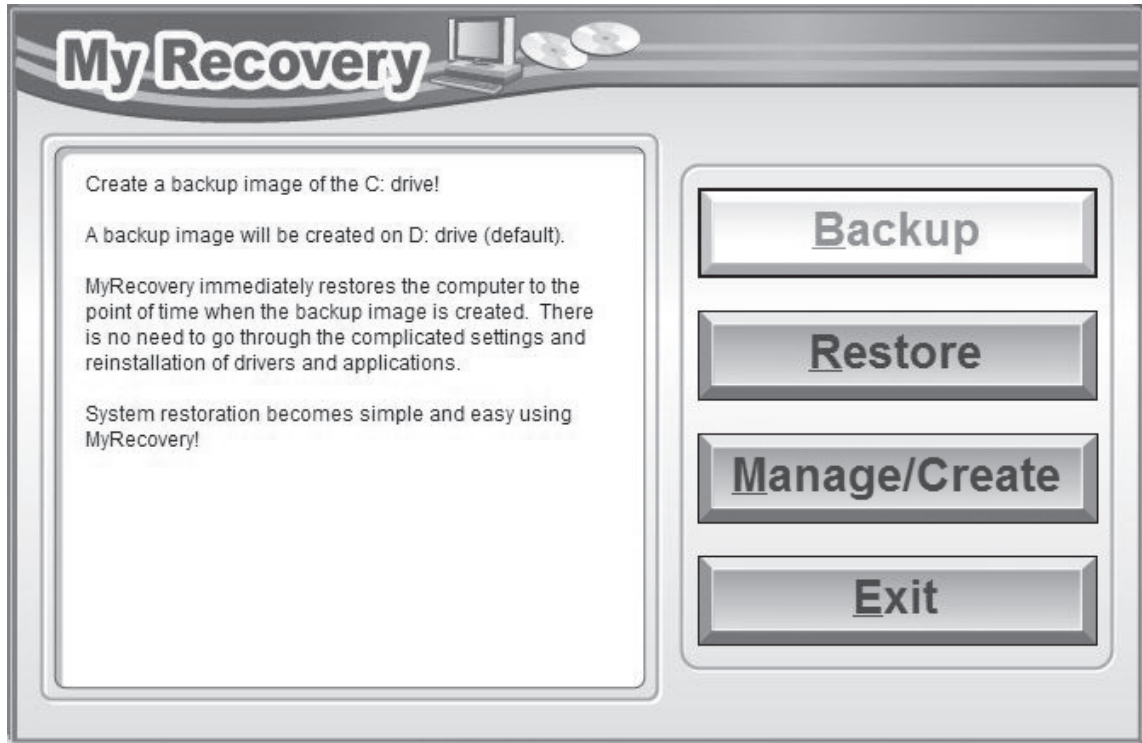
User-Configured System Backups: On your desktop, there is a **[MyRecovery]** icon that allows you to make backups of your current system image either to another location on your hard drive or on removable media. A system image is the configuration of your C: drive at a particular point of time. You may want to make system image backups occasionally in order to have points to which you can return without having to go all the way back to the Factory Image.



By default, system images are saved in the D: drive in the MyRecovery folder. You can also elect to save the image to an external hard drive.

- 1 Click the [MyRecovery] icon on your desktop.
- 2 Click the [Backup] button on the MyRecovery screen.
- 3 On the next screen that appears, you can enter up to 200 characters of information about the backup file. This information will help you to identify the image at a later date.
- 4 Click the [OK] button and the system will reboot.

- 5 After rebooting, the “Creating of the backup image” window appears, in which you can either click [Create the image on D drive] or [Select the drive] if you want to save to an external hard disk drive.
- 6 An image appears showing you graphically how the image will be stored. Click the [Next] button.
- 7 Click [Execute] to start the backup.



Managing Your Backup Images

With the MyRecovery tool you can also make copies of backup images, archive them on DVD, or delete them from your hard drive.

- 1 To begin, click the [MyRecovery] icon on your desktop.
- 2 Click the [Manage/Create] button in the MyRecovery window.
- 3 When the MyRecovery Manager window appears, click [Manage Backup Images].
- 4 In the next window, a list of your backup images appears. Below the list are three buttons allowing you to [Make DVD], [Copy], or [Delete] your backup images.
- 5 Select an image title from the list, then click the action button you would like to perform.
- 6 Note that you need to have an external disk drive connected for the [Copy] button to be enabled. If you elect to copy the image, you will be prompted to enter the destination. If you are ready to copy, click [OK] to proceed. A progress screen appears while the backup copy is being made.
- 7 Note that if you copy an image to an external hard drive, both the original and the copy will appear in the [Backup Images] window with identical names, dates, and file sizes, but with the different drive letter to distinguish them. Before you select [Make DVD], be sure you have a recordable DVD drive connected and blank DVDs available.

Using the Recovery and Utility Tools

The Recovery and Utility tools consist of a variety of tools that will help you recover your Factory Image, recover system images, and delete the data from your hard disk.

Methods for accessing the utilities

Recovery and Utility Tools are preinstalled in a hidden partition by the factory, or they can be accessed by using the bootable disc. Please note that you can delete Recovery and Utility tools from your hard disk drive if you modify the partitions. In this case you will not be able to use the hidden partition for booting to Recovery and Utility Tools, but you will still be able to boot from the disc.

Determining whether Recovery and Utility is pre-loaded

- 1 Turn on or reboot your system. When the Fujitsu logo appears, press [F12] key.

- 2 From the Boot Menu that appears, check whether the <Recovery and Utility> option is present. If it is not present, it means that the utility must be used from the disc. Proceed to “Running Recovery and Utility from the Bootable Disc” if <Recovery and Utility> is unavailable.

Running Recovery and Utility from hard disk

- 1 Turn on or reboot your system. When the Fujitsu logo appears, press [F12] key.
- 2 Cursor down to <Recovery and Utility> and press the [Enter] key.
- 3 While the files are being loaded from the disc, a progress bar will appear at the bottom of the screen.
- 4 When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 5 When the Operating System dialog appears, select “Use recovery tools...”, then click [Next].
- 6 If necessary, enter your password, then click [OK].
- 7 When System Recovery Options window appears, click on Recovery and Utility.
- 8 The Recovery and Utility screen appears on the screen with three tabs: Diagnostics, Recovery and Utility. Please note that Diagnostics tab is not supported on certain LIFEBOOK/Stylistic models when running Recovery and Utility from the hard disk. In order to restore the operating system, please use the middle icon “Restoring the Factory Image (only C:\drive)” under the Recovery tab.

Running Recovery and Utility from the Bootable disc

To verify/change boot-up priority (rather than booting-up from a hard drive or external floppy drive), perform the following steps:



THE BOOTABLE DISC CAN ONLY BE USED WITH THE SYSTEM WITH WHICH IT WAS PURCHASED.

- 1 Power on your system. When the Fujitsu logo appears on the screen. press the [F12] key.
- 2 Select the **Boot Menu** from the menu that appears.
- 3 Highlight the **CD/DVD** option and move it to the top of the list using the up arrow.
- 4 Insert the bootable disc into the drive tray.
- 5 Click [OK]. While the files are being loaded from the disc, a progress bar will appear at the bottom of the screen.

- 6 When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 7 When the Operating System dialog appears, click [Next].
- 8 If necessary, enter your password, then click [OK].
- 9 When System Recovery Options window appears, click on Recovery and Utility.
- 10 When the Recovery and Utility screen appears, three tabs will be present: Diagnostics, Recovery, and Utility.

Recovery and Utility tabs

Diagnostics tab: The Diagnostics tool is designed for use by IT professionals. It is not likely you will need to use this tool. When you select devices from the Diagnosis window then click [Execute], several tests are performed on the selected components.

Recovery tab: The Recovery tab contains three tools: Recovering User-Configured System Backups, Restoring the Factory Image (only C: drive), and Restoring the Factory Image (full hard drive recovery). You can use these tools to restore the Factory Image from the hidden partition, restore backup image(s) you created or images stored on DVD discs, and perform a full hard drive recovery. Refer to instructions above for details on how to create Factory Image Recovery DVDs, user backup DVDs and system image backup.

Utility tab: The Utility tab contains three tools: Hard Disk Data Delete, Restore Recovery and Utility, and Windows Complete PC Restore.

- The **Hard Disk Data Delete** utility is used to delete all data on the hard disk and prevent the data from being reused. **NOTE: Do not use the Hard Disk Data Delete utility unless you are absolutely certain that you want to erase your entire hard disk, including all partitions.**
- **Restore Recovery and Utility** allows you to restore the first hidden partition.
- **Windows Complete PC Restore** utility allows you to restore an image created with Windows Backup and Restore Center. Windows Complete PC Restore will overwrite the data on your hard disk drive.

Recovering your Factory Image using Recovery and Utility (new or non-bootable hard drive)

If you have installed a new hard drive or your hard drive is not bootable, perform the following steps. Note that first you will need to create new partitions on the hard drive, then restore the Factory Image:

- 1 Power on your system. When the Fujitsu logo appears on the screen. press the [F12] key.
- 2 Select the **Boot Menu** from the menu that appears.
- 3 Highlight the **CD/DVD** option and move it to the top of the list using the up arrow..
- 4 Insert the bootable disc in your DVD drive, then click [OK].
- 5 When System Recovery Options window appears, click on <Recovery and Utility>.
- 6 When the System Recovery Options dialog opens, select a new keyboard layout, if necessary, then click [Next].
- 7 When the Operating System dialog appears, click [Next].
- 8 If necessary, enter your password, then click [OK].
- 9 When System Recovery Options window appears, click on <Recovery and Utility>.
- 10 Click the Recovery tab in the Recovery and Utility window, then click <Restoring the Factory Image (full hard drive recovery)> icon.
- 11 Click [Execute].
- 12 Read the precautions, then select “I Agree”.
- 13 Click [Next], then click [Next] to start the recovery process.
- 14 “1. Recovery Disc Check” will be in bold and the rest will be grayed out. Follow the instructions and “Insert the Recovery Disc #1”. In some cases, you may be prompted to “Insert the Recovery Disc #2”, depending upon the size of the Recovery Image
- 15 Click [Next] to begin the check. Click [Next] again when the check is complete.
- 16 “2. Initializing hard disk drive” will be in bold with the message “Please insert the Bootable Disc into your optical drive”. Insert the bootable disc. Click [Next] to proceed. A dialog box appears, with a checking disc message.
- 17 “Warning All DATA on the Hard Disk will be completely erased!!!” will appear. Select [OK]. The partition creation process will begin.

- 18** "3. Restoring Factory Image to hidden partition" will be in bold with the message "Please insert the Recovery Disk#1 into the optical drive". Click [Next] to proceed.
- 19** After completion, the tool will automatically go back to "3.Restoring Factory Image to hidden partition" but will include the note "Please insert your Application Disc(s) starting with #1, then click [OK]. After installation of each disc, insert the next and continue until all have been installed. If you don't have your Application Disc(s) or you have inserted all your application discs. Please click [Cancel] to continue." At this point, you can either:
- Insert Application Disc(s) to restore back to hidden partition, or,
 - Click [Cancel] to skip restoring Application disc(s) and continue with restore.
- 20** If you select to insert Application Disc, after copying of application disc(s) to hidden partition is completed, the message will appear again. Repeat inserting application disc(s) until all discs have been copied, then click [Cancel] to continue with Restore.
- 21** After clicking [Cancel], a confirmation message will appear "If you want to skip copying or copy has been finished, click [OK]. Click [Cancel] to return to Restoring Factory Image to hidden partition."
- 22** Click [OK] and Restoring Factory Image will begin.
- 23** When restoration is complete, you will see the message "Restoration has been completed. Click [OK] to reboot the computer." Click [OK].

Automatically Downloading Driver Updates

Your system has a convenient tool called the Fujitsu Driver Update (FDU) utility. With FDU, you can choose to automatically or manually go to the Fujitsu site to check for new updates for your system.

The FDU icon should appear in the system tray at the bottom right of your screen (roll the cursor over the icons to find the correct one). If the icon does not appear in the system tray, go to [Start] -> All Programs, and click on Fujitsu Driver Update; this will create the icon automatically.

To invoke the FDU menu, right-click on the FDU icon. The menu contains the following items:

Check for updates now

Allows for manual driver update search. The first time it is used, you are prompted to agree to a user agreement. After you click the icon, FDU automatically connects with the Fujitsu site to check for updates and downloads them. While downloading, the icon has a red bar through it, indicating that it cannot be used while the download is in process. When the update is complete, a message appears informing you.

Enable Automatic Update Notifications

Automatically searches for new updates on a regular basis (approximately every 3 days).

Show update history

Brings up a screen that displays a history of updates that have been made via the FDU.

About Fujitsu Driver Update

Displays the FDU version number and copyright information.

Fujitsu Driver Update Readme

Displays the FDU readme.

Chapter 5

Care and Maintenance

Caring for your LIFEBOOK Tablet PC

If you use your Fujitsu LIFEBOOK Tablet PC carefully, you will increase its life and reliability. This section provides some tips for looking after the Tablet PC and its devices.

THE SYSTEM CONTAINS COMPONENTS THAT CAN BE SEVERELY DAMAGED BY ELECTROSTATIC DISCHARGE (ESD). TO MINIMIZE RISK TO THE COMPONENTS, OBSERVE THE FOLLOWING PRECAUTIONS:



- BEFORE DOCKING OR UNDOCKING YOUR LIFEBOOK TABLET PC (WHEN USING A PORT REPLICATOR), IT IS A GOOD PRACTICE TO ALWAYS TOUCH A GROUNDED METAL OBJECT TO DISCHARGE STATIC ELECTRICITY BUILT UP IN YOUR BODY.
- BE SURE TO POWER DOWN YOUR SYSTEM BEFORE ADDING OR REMOVING SYSTEM COMPONENTS. EVEN IF THE SYSTEM IS IN HIBERNATE OR SLEEP STATES, DATA COULD BE LOST OR MEMORY COULD BE DAMAGED IF POWER IS STILL AVAILABLE TO THE SYSTEM.
- WHEN INSTALLING OR REMOVING A MEMORY MODULE, HOLD IT BY THE EDGE SO AS NOT TO TOUCH ANY CONTACTS OR CHIPS. BE CAREFUL NOT TO TOUCH ANY INTERNAL COMPUTER TERMINALS OR COMPONENTS; THE OIL FROM YOUR FINGERS COULD CAUSE A SHORT TO THE COMPONENTS.
- ELECTRICAL EQUIPMENT MAY BE HAZARDOUS IF MISUSED. OPERATIONS OF THIS PRODUCT OR SIMILAR PRODUCTS, MUST ALWAYS BE SUPERVISED BY AN ADULT. DO NOT ALLOW CHILDREN ACCESS TO THE INTERIOR OF ANY ELECTRICAL PRODUCTS AND DO NOT PERMIT THEM TO HANDLE ANY CABLES.

- Your LIFEBOOK Tablet PC is a durable but sensitive electronic device. Treat it with respect and care.
- Make a habit of transporting it in a suitable carrying case.
- Do not attempt to service the computer yourself. Always follow installation instructions closely.
- Keep it away from food and beverages.
- To protect your Tablet PC from damage and to optimize system performance, be sure to **keep all air vents unobstructed, clean, and clear of debris**. This may require periodic cleaning, depending upon the environment in which the system is used.
- Do not operate the Tablet PC in areas where the air vents can be obstructed, such as in tight enclosures or on soft surfaces like a bed or cushion.
- If you accidentally spill liquid on your LIFEBOOK Tablet PC:
 - 1 Turn it off.
 - 2 Position it so that the liquid can run out.
 - 3 Let it dry out for 24 hours, or longer if needed.
 - 4 If your Tablet PC will not boot after it has dried out, call your support representative.
- Do not use your Fujitsu LIFEBOOK Tablet PC in a wet environment (near a bathtub, swimming pool).
- Always use the AC adapter and batteries that are approved for your Tablet PC.
- Avoid exposure to sand, dust and other environmental hazards.
- Do not expose your Tablet PC to direct sunlight for long periods of time as temperatures above 140° F (60° C) may damage your Tablet PC.
- Keep the covers closed on the connectors and slots when they are not in use.
- Do not put heavy or sharp objects on the computer.
- If you are carrying your LIFEBOOK Tablet PC in a briefcase, or any other carrying case, make sure that there are no objects in the case pressing on the lid.
- Never position your Tablet PC such that the optical drive is supporting the weight of the Tablet PC.

Cleaning your LIFEBOOK Tablet PC

- Always disconnect the power plug. (Pull the plug, not the cord.)
- Clean your LIFEBOOK Tablet PC with a damp, lint-free cloth. Do not use abrasives or solvents.
- Use a soft cloth to remove dust from the screen. Never use glass cleaners.
- Always shut down the computer, unplug the power adapter, and remove the battery when cleaning or disinfecting the computer exterior, keyboard or LCD display.

NOTE: Avoid wetting the thermal suede in all cases.

Cleaning guidelines using recommended off-the-shelf cleaners

Computer exterior, computer keyboard

To clean the exterior and keyboard, use one of the following off-the-shelf products:

- Office Depot® #154-616 Notebook Cleaning Kit
- Meridrew Enterprises Klear Screen® Wipes
- 3M CL563 Cleaner Wipes

Note: After cleaning with one of these products, gently polish with a dry, soft, lint-free cloth until the solution is no longer visible.

Disinfecting LIFEBOOK computers

Wipe the surface with a soft cloth wipe and a 50% ethanol solution or use another ethanol-based germicide which has been registered as a hospital disinfectant by the EPA.



- USE OF INCORRECT CLEANERS CAN RESULT IN OPTICAL IMPAIRMENT OF THE LCD AND/OR DAMAGE TO THE COMPUTER. ALWAYS REFER TO THE CLEANER MANUFACTURER'S GUIDELINES AND MATERIAL SAFETY DATA SHEETS FOR PROPER HANDLING AND USE OF THE PRODUCTS.
- NEVER USE AMMONIA, ACIDIC, OR ALKALINE CLEANERS OR ORGANIC CHEMICALS SUCH AS PAINT THINNER, ACETONE, PROPYL OR ISOPROPYL ALCOHOL, OR KEROSENE. IT MAY DAMAGE SURFACE FINISHES AND THE COATING OF THE LCD SCREEN.
- NEVER USE COMPRESSED AIR FOR CLEANING STYLISTIC AND LIFEBOOK PCs.

Cleaning the dust filter

Your LIFEBOOK is equipped with fans to make air flow inside by pulling in outside air to cool the inside of the system. Depending on the environment in which the system is used, dust and dirt may be pulled in along with the air. Accumulated dust and dirt could impair the function of the system.



- **REMOVE AC ADAPTER:** BEFORE REMOVING THE FILTER, TURN OFF THE SYSTEM AND PERIPHERALS AND DISCONNECT THE AC ADAPTER.
- **CLEANING THE FILTER:**
 - DO NOT USE DETERGENT
 - AVOID DAMAGING THE FILTER; DAMAGE TO THE FILTER IS NOT COVERED BY WARRANTY.
 - USE PLASTIC TOOLS TO CLEAN THE FILTER. METAL OR WOODEN TOOLS COULD DAMAGE THE FILTER.
- **ESD:** BEFORE CLEANING THE FILTER, TOUCH A METAL OBJECT TO DISCHARGE STATIC ELECTRICITY.
- ALWAYS BE SURE THE DUST FILTER IS INSTALLED WHEN RUNNING YOUR SYSTEM. NOT USING THE FILTER COULD CAUSE CONTAMINATION AND POSSIBLE DAMAGE TO THE SYSTEM.

- 1 Turn off your computer and disconnect the AC adapter.
- 2 Close the display panel and turn the system upside down.
- 3 Remove the dust filter by pressing the latch towards the filter and lifting it out (Figure 48).
- 4 Carefully clean the dust filter and the cooling duct.
- 5 Put back the dust filter by inserting the end without latch first and pushing in the filter until it latches.

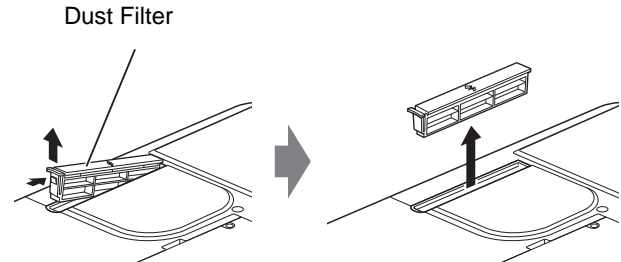


Figure 48. Removing the dust filter

Storing your LIFEBOOK Tablet PC

- If storing your Tablet PC for a month or longer, turn your LIFEBOOK Tablet PC off, fully charge the battery, then remove and store all Lithium ion batteries.
- Store your Fujitsu LIFEBOOK in a cool, dry location. Temperatures should remain between 13°F (-25°C) and 140°F (60°C).

- Store your Tablet PC and batteries separately. If you store your LIFEBOOK with a battery installed, the battery will discharge, and battery life will be reduced. In addition, a faulty battery might damage your LIFEBOOK.

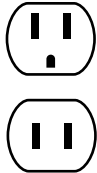





- ALWAYS POWER OFF THE COMPUTER BEFORE TRANSPORTING AND/OR PACKAGING IT. AFTER SHUTTING DOWN THE SYSTEM, WAIT UNTIL THE STATUS LED PANEL INDICATES POWER OFF CONDITION (I.E., NO LIGHTS ARE ILLUMINATED).
- IT IS POSSIBLE THAT THE UNIT MAY NOT AUTOMATICALLY GO TO POWER OFF OR HIBERNATE MODE WHEN YOU CLOSE THE LID. THIS SITUATION MAY OCCUR DUE TO PRE-OS BOOT PASSWORD SECURITY SETTINGS OR SOME OTHER APPLICATION RUNNING ON THE COMPUTER.
- ATTEMPTING TO TRANSPORT THE COMPUTER WHILE POWER IS ON MAY DAMAGE THE TABLET PC DUE TO SHOCK OR OVERHEATING SINCE THE AIR VENTS MAY BE BLOCKED OR RESTRICTED.

Traveling with your LIFEBOOK Tablet PC

- Do not transport your Tablet PC while it is turned on.
- It is recommended that you carry your Tablet PC with you while traveling, rather than checking it in as baggage.
- Never put your Tablet PC through a metal detector. Have your Tablet PC hand-inspected by security personnel. You can however, put your Tablet PC through a properly tuned X-ray machine. To avoid problems, place your Tablet PC close to the entrance of the machine and remove it as soon as possible or have your Tablet PC hand-inspected by security personnel. Security officials may require you to turn your Tablet PC on, so make sure you have a charged battery on hand.

- Take the necessary plug adapters if you're traveling overseas. Check the following diagram to determine which plug adapter you'll need or ask your travel agent.

Outlet Type	Location	Outlet Type	Location
	United States, Canada, parts of Latin America, Mexico, Japan, Korea, the Philippines, Taiwan		United Kingdom, Ireland, Malaysia, Singapore, parts of Africa
	Russia and the Commonwealth of Independent States (CIS), most of Europe, parts of Latin America, the Middle East, parts of Africa, Hong Kong, India, most of South Asia		China, Australia, New Zealand

Batteries

Caring for your Batteries

- Always handle batteries carefully.
- Do not short-circuit the battery terminals (that is, do not touch both terminals with a metal object). Do not carry loose batteries in a pocket or purse where they may mix with coins, keys, or other metal objects. Doing so may cause an explosion or fire.
- Do not drop, puncture, disassemble, mutilate or incinerate the battery.
- Recharge batteries only as described in this manual and only in ventilated areas.
- Do not leave batteries in hot locations for more than a day or two. Intense heat can shorten the life of your battery.
- Do not leave a battery in storage for longer than 6 months without recharging it.