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You can read the recommendations in the user guide, the technical guide or the installation guide for FUJITSU SIEMENS AMILO PRO V. You'll find the answers to all your questions on the FUJITSU SIEMENS AMILO PRO V in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual FUJITSU SIEMENS AMILO PRO V
User guide FUJITSU SIEMENS AMILO PRO V
Operating instructions FUJITSU SIEMENS AMILO PRO V
Instructions for use FUJITSU SIEMENS AMILO PRO V
Instruction manual FUJITSU SIEMENS AMILO PRO V

Professional Notebook
EasyGuide

English

AMILO Pro V Series



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Manual abstract:

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Notebook views Index AMILO Pro V Series Important notes Using your notebook for the first time Using your notebook Operating Manual Security functions
Connecting external devices Removing and installing components Settings in BIOS Setup Utility Troubleshooting and tips May 2005 edition Microsoft, MS,
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..tebook is available in several different versions. Most of the sections in this manual apply to all models - any differences are pointed out separately. Some of the illustrations and features in this manual may differ from your model and are for guidance only. Your operating system (e.g. Microsoft Windows XP Home Edition) has already been preinstalled and optimally configured so that you can be up and running from the moment you switch on your AMILO for the first time. Your notebook features the very latest technology so that you ge guidance from your local District Council. A lithium battery (button cell) is contained in your notebook: The lithium battery should only be replaced by an authorised technician.

Incorrect handling may lead to a risk of explosion. Only use batteries approved by Fujitsu Siemens Computers. Batteries are harmful to the environment. You should dispose of the lithium battery following guidance from your local District Council. Read the information on the ambient conditions in the chapter "Technical data" and the chapter "Using your notebook for the first time" before putting your notebook into operation and switching it on for the first time. When cleaning the device, please observe the relevant notes in the "Cleaning the notebook" paragraph. Keep this operating manual together with your device. If you pass on the device to third parties, you should include this manual. If you have a notebook with wireless LAN, you must also observe the additional safety precautions for devices with wireless LAN in the "Safety" manual. This notebook complies with the relevant safety regulations for data processing equipment.

If you have questions about using your notebook in a particular area, please contact your sales outlet or our hotline/help desk. A26391-K180-Z120-1-7619, edition 1 5 Important notes Notes on installing and removing components ! Only qualified technicians should repair your notebook. Unauthorised opening or incorrect repair may greatly endanger the user (electric shock, fire risk) and will invalidate your warranty. Switch the notebook off and pull the power plug out of the mains socket. Remove the battery.

Take care when you use the locking mechanisms on the battery and any other component. Never use sharp objects such as screwdrivers, scissors or knives as leverage to remove covers. Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown. When you handle boards fitted with ESDs, you must, under all circumstances, observe the following points: You must statically discharge yourself before working with boards (e.g. by touching a grounded object). The equipment and tools you use must be free of static charges. Remove the power plug from the mains supply before inserting or removing boards containing ESDs. Always hold boards with ESDs by their edges. Never touch pins or conductors on boards fitted with ESDs. 6 A26391-K180-Z120-1-7619, edition 1 Important notes Energy saving If you will not be using your notebook, switch it off. Make use of the device's energy saving functions (see "Using your notebook"). The notebook uses less power when the power management features are enabled. You will then be able to work for longer before having to recharge the battery. Energy saving under Windows If a monitor with energy saving features is connected to your notebook, you can use the Screen Saver tab to activate the energy saving features of the monitor.



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Select a screen saver in the menu Start Control Panel - Appearance and Themes - Display - Screen Saver. You may set further energy saving functions in the menu Start - Control Panel - Performance and Maintenance - Power Options. i There is no need for a screen saver for the LCD panel since the LCD screen is turned off via the energy saving functions. Travelling with your notebook Please follow these guidelines when travelling with your notebook. Before you travel

Back up important data stored on your hard disk. Switch off the radio component (Wireless LAN) for security reasons when you cannot exclude that the transmitted radio waves can negatively affect electrical and electronic devices in your surrounding area. Switch off the radio component (Wireless LAN) for data security reasons. With data traffic via a wireless connection, it is also possible for unauthorised third parties to receive data. i Information on activating data encryption is provided in the documentation for your radio component. If you wish to use your notebook during a flight, first check with the flight attendants if it is OK to do so.

If you are travelling abroad, check that the mains adapter can be operated with the local mains voltage. If this is not the case, obtain the appropriate power adapter for your notebook. Do not use any other voltage converter! Make sure that the rated current of the power adapter is not higher than that of the power system to which you connect the power adapter (see technical data of the power adapter). A26391-K180-Z120-1-7619, edition 1 7 Important notes When travelling in other countries Check whether the local power supply and the specifications of the power cable are compatible. If this is not the case, buy a power cable that matches the local conditions.

Do not use a connection adapter for electrical devices to connect the notebook. Enquire with the corresponding government office of the country you will be travelling in as to whether you may operate the radio component integrated in your notebook there (also see section "CE marking" in chapter "Manufacturer's notes"). If you use the modem, incompatibilities with the local telecommunications system may result. This may result in poor performance, or the modem will not work at all. You may require a country-specific telephone adapter (available as an accessory).

Transporting the notebook Remove all disks (e.g. CD, DVD) from the drives. Switch the notebook off. Unplug the power adapter and all external devices from the power socket. Disconnect the power adapter cable and the data cables for all external devices. Close the LCD screen so that it locks into place. To protect against damaging jolts and bumps, use a notebook carrying case to transport your notebook. Protect the notebook from severe shocks and extreme temperatures (e.g.

direct sunlight in a car). Cleaning the notebook Switch the notebook off. Unplug the mains adapter from the mains socket. Remove the battery. ! Do not clean any interior parts yourself; leave this job to a service technician. Only use cleaning products designed for computers. Normal household cleaners and polishes can damage the markings on the keyboard and the device, the paintwork or the notebook itself. Ensure that no liquid enters the notebook. Wipe the casing with a dry cloth. If particularly dirty, use a cloth which has been moistened in mild domestic detergent and then carefully wrung out.

To clean the keyboard and the touchpad, you can use disinfectant wipes. 8 A26391-K180-Z120-1-7619, edition 1 Using your notebook for the first time ! Please read the "Important notes" chapter. Upon delivery, the battery can be found in the battery compartment and is not charged. Before putting the notebook into operation, the battery must be completely charged. Your operating system (e.

g. Windows XP Home Edition) and the hardware drivers have been preinstalled for you. Before you can use your notebook for the first time you need to install the supplied software. When not plugged into a mains outlet, the notebook runs on its built-in battery. You can increase the battery's life by enabling the system's energy saving functions.

When you use your notebook in your home or office, we recommend you use the mains adapter instead of the battery. Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook. Unpacking and checking your notebook Unpack all the individual parts. Check your notebook for damage incurred during transportation. ! i Should you discover damages incurred during transportation, notify your local sales outlet immediately! Do not discard the original packing material of the devices. You may need the packaging in the future if you need to transport your device. A26391-K180-Z120-1-7619, edition 1 9 Using your notebook for the first time Selecting a location ! Select a suitable location for the notebook before setting it up. Consider the following points when looking for a location: Never place the notebook on a soft surface (e.g. carpeting, upholstered furniture, bed).

This can block the air vents and cause overheating and damage. Do not place the notebook on your legs for a longer period of time. The underside of the notebook heats up during normal operation. Longer contact with the skin can become unpleasant or even result in burns. Place the notebook on a stable, flat, non-slippery surface. Please note that the rubber feet may mark certain types of surfaces. Keep other objects 100 mm away from the notebook and its power adapter to ensure adequate ventilation. Never cover the fan intake or exhaust openings of the notebook or the power adapter. Do not expose the notebook to extreme environmental conditions. Protect the notebook from dust, humidity, and heat.

10 A26391-K180-Z120-1-7619, edition 1 Using your notebook for the first time Connecting the power adapter ! Please take note of the information in the section "Safety notes". The power cable supplied conforms to the requirements of the country in which you purchased your notebook. Make sure that the power cable is approved for use in the country in which you intend to use it. The mains adapter's AC cable should only be connected to a mains socket if the notebook is connected to the mains adapter. Do not use the power adapter for other notebooks or devices.

Do not use a power adapter that is not specially intended for this notebook. 1 3 2 Connect the power adapter cable to the DC jack (DC IN) of the notebook (1). Connect the power cable into the power adapter (2). Plug the power cable into a mains outlet (3). of the notebook lights up.

The battery will charge. The power indicator A26391-K180-Z120-1-7619, edition 1 11 Using your notebook for the first time Switching on the notebook for the first time ! When you switch on your notebook for the first time, the supplied software is installed and configured.



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Due to the fact that this installation must not be interrupted, you should set aside enough time for it to be fully completed and connect the notebook to the mains outlet using the power adapter. During installation, the notebook may only be rebooted when you are requested to do so! Your operating system is pre-installed on the hard disk to facilitate the procedure when you use your notebook for the first time. Switch the notebook on (see "Using your notebook" chapter, "Switching on the notebook" section). During installation, follow the instructions on screen. Consult the operating system manual if there is anything unclear about the requested input data. If there is a Windows operating system installed on your notebook the "Drivers & Utilities" CD/DVD is included in the delivery scope. You will find further information on the system, drivers, utilities, updates, manuals etc. on this "Drivers & Utilities" CD/DVD.

12 A26391-K180-Z120-1-7619, edition 1 Using your notebook This chapter describes the basics for operating your notebook. Please see the "Connecting external devices" chapter for instructions on how to connect devices such as a mouse and a printer to the notebook. ! Please take note of the information in the "Important notes" chapter. Switching the notebook on and off Switching on the notebook 2 1 Slide the release button in direction of the arrow (1) and open the LCD screen (2). A26391-K180-Z120-1-7619, edition 1 13 Using your notebook Press the ON/OFF switch to switch the notebook on. The power-on indicator on the notebook is on. i If you have assigned a password, you must enter this when requested to do so, in order to start the operating system password. Switching off the notebook Shut down the operating system properly (e. g. Windows XP Home Edition by clicking Start then Turn off Computer). If the notebook is not switched off automatically, press the ON/OFF switch for approx. five seconds. 14 A26391-K180-Z120-1-7619, edition 1 Using your notebook Close the LCD screen so that it locks into place. A26391-K180-Z120-1-7619, edition 1 15 Using your notebook Status indicators The status indicators provide information about the status of the power supply, the drives and the keyboard functions. A 1 The meanings of the symbols are as follows:

Indicator Wireless LAN The indicator lights up: The wireless LAN module is switched on.

Power-on indicator The indicator lights up: The notebook is on. Energy-saving mode indicator The indicator lights up: The system is in the energy-saving mode. Drive indicator The indicator lights up: one of the drives (e.g. hard disk, CD/DVD) is being accessed.

Battery indicator The indicator lights up: The battery is charging. 16 A26391-K180-Z120-1-7619, edition 1 Using your notebook A 1 i Caps Lock indicator The indicator lights up: the Caps Lock key has been pressed. All the characters you type appear in uppercase. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. Num Lock indicator The indicator lights up: the key combination Fn + Num Lock has been pressed. The numeric keypad is activated. In the case of overlay keys, the character printed on the upper right of the key appears when that key is pressed. Keyboard The keyboard of your notebook is subject to continuous wear due to normal use. The keyboard markings are subjected to particularly high loads. The keyboard markings can wear off in the course of using the notebook.

The keyboard has been designed to provide all the functions of an enhanced keyboard. Some enhanced keyboard functions are mapped with key combinations.

The following description of keys refers to Windows. Additional functions supported by the keys are described in the relevant manuals supplied with your application programmes. The figure below shows how to access the different characters on keys with overlaid functions. The example applies when the Caps Lock indicator is not lit. Fn Num / 7 7 { / 7 7 { / 7 7 / 7 7 { { Alt Gr / 7 7 { Example from a German keyboard Backspace key The Backspace key deletes the character to the left of the cursor. Tab key The Tab key moves the cursor to the next tab stop. A26391-K180-Z120-1-7619, edition 1 17 Using your notebook Enter key (return) The enter key terminates a command line. The command you have entered is executed when you press this key.

Caps Lock Caps Lock key The Caps Lock key activates uppercase mode (Caps Lock indicator lit). The Caps Lock function causes all the characters you type to appear in uppercase. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. To cancel the Caps Lock function, simply press the Caps Lock key again. Shift key The Shift key causes uppercase characters to appear.

In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed. Alt Gr Alt Gr key The Alt Gr key allows one to type the characters printed on the lower right of the keycaps (e.g. { in the case of the 7 key on the German keyboard). Fn key The Fn key enables the special functions indicated on overlay keys (see "Key combinations").

If the external keyboard does not feature an Fn key, you can simultaneously press the Ctrl + Alt Gr keys or the Ctrl + Alt keys. Cursor keys The cursor keys move the cursor in the direction of the arrow, i.e. up, down, left, or right. Fn Pause Break Pause key The Pause key temporarily suspends display output.

Output will resume when you press any other key. Start key The Start key invokes the Windows Start menu. Menu key The Menu key invokes the menu for the selected item. 18 A26391-K180-Z120-1-7619, edition 1 Using your notebook Virtual numeric keypad The keyboard of your notebook does not have a separate number block. To provide the convenience of a numeric keypad, your keyboard is equipped with a virtual numeric keypad.

The special keys of the virtual numeric keypad are recognisable by the numbers and symbols printed in the upper right corner of each key. If you have switched on the virtual numeric keypad, you can output the characters shown on the upper right of the keys. & 7 U 1 * 8 I K M (9 O L <) 0 P 7 8 9 * 6 4 5 3 J : ; > 2 1 2 + , . . ? / 0 . / 1 = Characters enabled when Num Lock indicator is not lit (see "Status indicators"). 2 = Characters enabled when Num Lock indicator is lit (see "Status indicators"). Key combinations The following description of key combinations refers to functions when using Microsoft Windows. Some of the following key combinations may not function in other operating systems and with some device drivers.



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Other key combinations are described in the relevant manuals supplied with your application programmes.

Key combinations are performed as follows: Press and hold the first key in the combination. While holding the first key down, press the other key or keys in the combination. *i* Fn + If the external keyboard does not feature an Fn key, you can simultaneously press the Ctrl + Alt Gr keys or the Ctrl + Alt keys. F1 Hotkey for help Starts the online help for the application currently active. Power-Saving Mode Switches the notebook into the energy-saving mode.

Fn + F2 A26391-K180-Z120-1-7619, edition 1 19 Using your notebook Fn + F3 Switching between internal and external screen If an external monitor is connected, the monitor on which the output is to be displayed can be selected with this key combination. You can opt to use: just the notebook's LCD screen just the external monitor both the LCD screen and the external monitor Fn + F4 Screen saver This key combination switches the LCD screen off. The next input switches the display on again. Switching the loudspeakers on and off This key combination switches your notebook's loudspeakers off and on. Reducing the volume This key combination reduces the volume of the integrated loudspeakers.

Fn + F5 Fn + F6 Fn + F7 Increasing the volume This key combination raises the volume of the integrated loudspeakers. Decreasing screen brightness This key combination decreases screen brightness. Increasing screen brightness This key combination increases screen brightness. Switching wireless LAN module on and off This key combination switches the wireless LAN module on and off. When the wireless LAN module is switched on, the wireless LAN indicator lights up. Switching between open applications Fn + F8 Fn + F9 Fn + F10 Alt + With this key combination you can switch between several open applications. Backtab (Shift+Tab) + This key combination moves the cursor back to the previous tabular stop. Carrying out a warm boot + Ctrl + Alt Del This key combination triggers a reset and warm-boots the notebook. First hold down the Ctrl and Alt key, and then press the Del key. Under Windows 98, Windows 2000, Windows Me and Windows NT the Task Manager appears first.

Then you must press all three keys again to re-boot. *i* Key combinations with the Windows keys are contained in the manual for your operating system. 20 A26391-K180-Z120-1-7619, edition 1 Using your notebook Country and keyboard settings If you want to change the country and keyboard settings, proceed as follows: Click on Start - Control Panel. Double-click on Regional and Language Options. Select the country settings you want to use. Click on Apply. Click on the Details button in the Languages tab. Click on Add...

to add other keyboard layouts to the selection. Select the keyboard layout you want to use in the Input Language field. Click on Apply and confirm with OK. Restart the notebook. The current settings are displayed in the Regional Options tab.

Touchpad and touchpad buttons ! Keep the touchpad clean. Protect it from dirt, liquids, and grease. Do not use the touchpad if your fingers are dirty. Do not rest heavy objects (e.g.

books) on the touchpad or the touchpad buttons. The touchpad enables you to move the mouse pointer on the screen. The touchpad buttons allow the selection and execution of commands. They correspond to the buttons on a conventional mouse. 1 2 1= Touchpad 2= Touchpad buttons A26391-K180-Z120-1-7619, edition 1 21 Using your notebook Moving the pointer Move your finger on the touchpad. The pointer will move accordingly. Selecting an item Move the pointer to the item you wish to select. Tap the touchpad once or press the left button once. The item will be selected. Executing a command Move the pointer to the field you wish to select.

Tap the touchpad twice or press the left button twice. The command will be executed. Dragging an object Select the desired object. Press and hold the left button and drag the object to the desired position with the finger on the touchpad. The item will be moved. LCD screen Information on LCD monitor High-quality TFT displays are installed in notebooks from Fujitsu Siemens Computers GmbH. For technical reasons, TFT monitors are manufactured for a specific resolution. An optimal, clear picture can only be ensured in the resolution intended for the respective TFT monitor. A monitor resolution which differs from the specification can result in an unclear picture. The monitor resolution is understood to be the number of horizontal and vertical pixels (i. e. picture elements) which make up the monitor display. For example, "UXGA" stands for 1600 x 1200 pixels. Each pixel consists of three so-called subpixels of the colours red, green and blue. As a result, a UXGA monitor consists of $1600 \times 1200 \times 3 = 5.760.000$ subpixels. Frequently used monitor resolutions XGA WXGA WSXGA+ SXGA SXGA+ UXGA Number of pixels 1024 x 768 1280 x 800 1680 x 1050 1280 x 1024 1400 x 1050 1600 x 1200 The correct monitor resolution for your notebook is specified in the corresponding section in the chapter "Technical data". 22 A26391-K180-Z120-1-7619, edition 1 Using your notebook Permanently unlit or lit pixels The standard of production techniques today cannot

guarantee an absolutely fault-free screen display. A few isolated constant lit or unlit pixels may be present.

The maximum permitted number of pixels faults is stipulated in the stringent international standard ISO 13406-2 (Class II). Example: A 15" LCD screen monitor with a resolution of 1024 x 768 has $1024 \times 768 = 786432$ pixels. Each pixel consists of three subpixels (red, green and blue), so there are almost 2,4 million subpixels in total. According to ISO 13406-2 (Class II), a maximum of 4 pixels and 5 subpixels may be defective, i. e. a total of 17 faulted subpixels. That is approx. 0.0002 % of the entire subpixel! Background lighting TFT screens are operated with background lighting. The luminosity of the background lighting can decrease during the period of use of the notebook.

However, you can set the brightness of your monitor individually. Monitor settings Setting the desktop area The screen resolution of the LCD monitor of your notebook is optimally set at the factory. Changing the LCD screen brightness You can adjust the brightness of your LCD display with the keys Fn and F8 or F9. Changing the font size Under Start - Control Panel - Appearance and Themes - Display - Advanced you can choose between a larger and a smaller font in the Font size field. Synchronising the display on the LCD screen and an external monitor Your notebook supports the simultaneous display on the LCD screen and an external monitor. Pressing the key combination Fn + F3 switches between LCD only, external monitor and LCD and external monitor only.



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The last setting is useful if you would like high resolution and refresh rate on an external monitor. Battery The battery supplies your notebook with the necessary power during mobile use. You can increase battery life by enabling the system's power management features. The life of the battery is dependent on its proper storage, the number of charging/discharging cycles and the operating temperature of the notebook.

A26391-K180-Z120-1-7619, edition 1 23 Using your notebook Charging, caring for and maintaining the battery ! Only use batteries approved by Fujitsu Siemens Computers for your notebook. Take care not to drop the batteries or otherwise damage their casing (fire risk). @Do not touch the contacts of the batteries. Never interconnect the positive and negative terminals of a battery. Batteries are harmful to the environment.

@@@@40°C. @@@@Once the battery is running low you will hear a warning alarm. @@@@30%. @To be able to make use of the optimal charging capacity of the batteries, the battery should be completely discharged and then fully recharged. i If you do not use the batteries for long periods, remove them from the notebook.

Never store the batteries in the unit. Monitoring the battery charging level Windows also has a "Battery status meter" in the taskbar for monitoring the battery capacity. When you place the mouse pointer on the battery symbol, the system displays the battery status. 24 A26391-K180-Z120-1-7619, edition 1 Using your notebook Removing and installing the battery ! Only use batteries approved by Fujitsu Siemens Computers for your notebook. Never use force when inserting or removing a battery. @Close the LCD screen so that it locks into place. Disconnect all cables connected to the notebook. @@@@Push the battery into the battery slot until it engages noticeably. @@@@Never turn off your notebook while it is in an energy saving mode. @Do not disconnect any external devices.

@No memory modules may be removed or installed. @@@@Never use force when inserting or removing a PC card.

@@@@@@@@@@@@@@@@@@@@Help and Support Center under Windows XP). You can push the PC card slot eject button into the notebook casing. Press the eject button until it snaps in. @Select the PC card you want to stop and remove. @The PC card will project further out of the notebook's case. If the eject buttons are pushed in flush with the notebook casing, they must first be snapped out. Press the eject buttons until they snap out. Slide the PC card out (2) of the notebook.

30 A26391-K180-Z120-1-7619, edition 1 Using your notebook Insert the placeholder for the PC card into the slot guide. Gently slide the placeholder for the PC card into the slot until you feel it click into place. Memory cards Your notebook is equipped with a memory card slot. The memory card slot supports the following formats: Secure Digital (SDTM Card) MultiMediaCard (MMC) Memory Stick / Memory Stick pro (Sony®) i Please read the documentation supplied with the memory card for any special instructions. A26391-K180-Z120-1-7619, edition 1 31 Using your notebook Inserting memory card Also press on the edge of the placeholder so that the placeholder is pushed out of the slot somewhat.

Pull the placeholder out of the notebook. Carefully push the memory card into the slot. The label should be facing upward. The memory card may protrude by one to several millimetres (depending on the memory card type). i Keep the placeholder for the memory card in a safe place.

When you remove the memory card again, you should reinsert the memory card placeholder. This prevents foreign matter from getting into the slot. 32

A26391-K180-Z120-1-7619, edition 1 Using your notebook Removing memory card 2 1 Press on the edge of the memory card (1) so that the memory card jumps out of the slot slightly. Slide the memory card out of the notebook (2). Insert the placeholder again into the slot if necessary. Hard disk Your notebook is equipped with a SATA hard disk. The hard disk is the most important storage medium of your notebook. You can work considerably faster and more efficiently if you copy applications and files from floppy or CDs/DVDs to your hard disk. When the hard disk is accessed, the drive indicator lights up .

A26391-K180-Z120-1-7619, edition 1 33 Using your notebook Optical drive ! The optical drive is a Class 1 laser according to IEC 60825-1.

It contains a light emitting diode (LED) which may produce a stronger laser beam than a Class 1 laser. It is dangerous to look directly at this beam. Therefore, do not remove any drive housing parts. Handling CD/DVDs ! Observe the following guidelines when handling CD/DVDs: Avoid touching the surface of a CD/DVD. Hold CDs/DVDs by their edges! Always store CDs/DVDs in their cases. This will protect CD/DVD from dust, scratches and other damage. Protect your CDs/DVDs from dust, mechanical vibration and direct sunlight! Avoid storing a CD/DVD in areas subject to high temperatures or humidity. You may use both 8-cm and 12-cm CDs/DVDs in the optical drive. When using CDs/DVDs of poor quality vibrations and reading errors may occur.

Drive indicator The drive indicator flashes when a CD/DVD is inserted.

The indicator goes out when the drive is ready for reading. The indicator lights up when the drive is being accessed. You may only remove the CD/DVD when the indicator is dark. i If the drive indicator does not go out after inserting a CD/DVD, but instead continues to flash, the drive cannot access the data carrier. Either the CD/DVD is damaged or dirty or you are using a data carrier that the drive cannot read.

34 A26391-K180-Z120-1-7619, edition 1 Using your notebook Inserting or removing a CD/DVD The notebook must be switched on. 1 2 3 or Push the insert/eject button (1). Gently pull the drive tray completely out. Place the CD/DVD in the drive tray with the label facing upwards. Take out an inserted CD/DVD.

Push in the drive tray until you feel it lock into place (3). The drive tray will open (2). A26391-K180-Z120-1-7619, edition 1 35 Using your notebook Manual removal (emergency removal) In the event of a power failure or damage to the drive it may be necessary to manually remove the CD/DVD. @paperclip into the opening. The drive tray is ejected. @@@@Proceed as follows: Click on the Start menu. Click on My computer. Select the CD / DVD icon you want to change and click it with the right-hand mouse or touchpad button. Click on Properties. Click on the AutoPlay tab.

Adjust the AutoPlay function to meet your needs. The My Computer window will appear. A context menu appears. i Please note that you must select the desired action and confirm it with Apply for each individual CD/DVD content type. A26391-K180-Z120-1-7619, edition 1 37 Using your notebook Adjusting the volume or To adjust the volume use the Windows volume control from the Start menu - Programs Accessories - Multimedia - Volume Control.



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Set the desired volume with the key combination Fn + F6 or Fn + F7. Integrated 56k modem The integrated 56k modem supports all data communication applications, such as: Modem operation: High-speed downloads at up to 56,000 bit/s (V.9x). Downward-compatible to V.34 modems.

Fax mode: Transmitting and receiving at up to 14,400 bit/s Simple country adaptation with programme The modem complies with the EU Directive 91/263/EEC (Telecommunications terminal equipment directive) and has been checked in agreement with the guideline TBR-21. The modem can be operated in the following countries: Multifrequency (MFC) dialling Belgium, Denmark, Germany, Finland, France, Greece, Great Britain, Holland, Ireland, Iceland, Italy, Luxembourg, Norway, Austria, Portugal, Sweden, Switzerland and Spain. Pulse dialling: Belgium, France, Holland and Italy. Also in: Poland, Slovenia, South Africa and Hungary. 38 A26391-K180-Z120-1-7619, edition 1 Using your notebook Connecting notebook modem to telephone connection 2 1 Connect the modem cable to the country-specific telephone adapter.

Connect the modem cable to the modem port of the notebook (1). Connect the modem cable to your telephone wall socket (2). i Please note that the telephone line is busy and that you cannot use your telephone if the modem cable is plugged into the telephone wall socket. Pull the modem cable out of the telephone socket after you have finished your internet session or the fax mode and reconnect the telephone cable. A26391-K180-Z120-1-7619, edition 1 39 Using your notebook Ethernet and LAN The internal LAN module of your notebook supports Ethernet-LAN (10/100/1000 Mbps).

With the LAN module you can establish a connection to a local network (LAN = Local Area Network). 1 2 Connect the LAN cable to the notebook's LAN connector (1). Connect the LAN cable to your network connector (2). i Your network administrator can help you to configure and use the LAN-connections. 40 A26391-K180-Z120-1-7619, edition 1 Using your notebook Wireless LAN! The installation of a wireless LAN module not approved by Fujitsu Siemens Computers GmbH voids the permits (CE!, FCC) issued for this device. A wireless LAN is integrated in your notebook. Switching wireless LAN module on and off i The wireless LAN module is switched off as standard, if you switch on the notebook or if you quit the energy-saving-mode. Press the key combination Fn + F10 to switch the wireless LAN module on or off. light, if the wireless LAN modulw is switched on. The indicator wireless LAN i Pay attention to the additional safety precautions for devices with wireless LAN provided in the "Safety" manual.

Detailed information can be found in the online help file and PDF document for your wireless LAN software. The "Wireless LAN" manual can be found on the "Drivers & Utilities" CD/DVD. A26391-K180-Z120-1-7619, edition 1 41 Security functions Your notebook has several security features that you can use to secure your system from unauthorised access. This chapter will explain how to use each function, and what the benefits are. ! Please remember that in some cases, for example, forgetting your password, you can be locked out and unable to access your data. Please note therefore the following hints: Make regular backups to external storage devices such as external hard drives, CD or DVD disks. Some security functions need you to choose a password. Make a note of the passwords and keep them in a safe place. If you forget your passwords you will need to contact the help desk. Passwords are not covered by your warranty and a charge will be made for assistance.

Overview of all security functions The following sections explain the security features that are supplied with your notebook as standard. Kensington Lock With the Kensington MicroSaver, a sturdy steel cable, you can help protect your notebook from theft. For this reason your notebook is equipped with a device for the Kensington MicroSaver. The Kensington MicroSaver is available as an accessory. BIOS password protection You can protect you personal data from unauthorised access with various passwords.

By combining these different options, you can achieve maximum protection for your system. Password protection for the BIOS setup With the Supervisor password you prevent unauthorised opening of the BIOS Setup, and with it access to important system settings. In the BIOS Setup you can also activate protection for the operating system and your hard disk. Password protection for the operating system With corresponding settings in the BIOS Setup you can block starting of the operating system. Only those who know the supervisor or user password can access the system.

Password protection for your hard disk By activating the hard disk protection in the BIOS Setup you prevent unauthorised access to the hard disk drive. The hard disk password is checked internally during each system start-up and ensures that the hard disk can only be used in conjunction with the related device.

A26391-K180-Z120-1-7619, edition 1 43 Security functions Brief overview of the security functions Security function Kensington Lock BIOS password protection Type of protection Mechanical Password protection for BIOS Setup, operating system and hard disk with Supervisor and User password. The passwords consist of a maximum of eight alphanumeric characters. Preparation Mount and lock Kensington MicroSaver (accessory) Specify at least one Supervisor password in the BIOS Setup and activate the password protection for the operating system and hard disk as desired. Using Kensington Lock With the Kensington MicroSaver, a sturdy steel cable, you can help protect your notebook from theft. For this reason your notebook is equipped with a device for the Kensington MicroSaver. The Kensington MicroSaver is available as an accessory. 1 Fit the Kensington MicroSaver on the device (1) on your notebook. Configuring password protection in BIOS Setup ! Before using the various options of password protection for your data security in the BIOS Setup, please note the following hints: Please keep in mind your passwords in any case, as you will not be able to access your BIOS Setup and/or your system any longer, if you forget both the user password and the supervisor password.

Passwords are not covered by your warranty and a charge will be made for assistance. Back up your data on external data carriers at regular intervals. i

Passwords can be up to eight characters long. You can use all alphanumeric characters and need not distinguish between uppercase and lowercase characters. 44 A26391-K180-Z120-1-7619, edition 1 Security functions Password protection for BIOS Setup (supervisor and user password) We recommend that you print out the following instructions, as these cannot be displayed while setting the password.



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You prevent unauthorised opening of the BIOS Setup with both the supervisor and the user password. With the supervisor password you have access to all functions of the BIOS Setup, and with the user password only to part of the functions. You can only set a user password if a supervisor password has already been assigned. i Please refer to section "Settings in BIOS Setup" for a description of calling and operating the BIOS Setup. Set the supervisor and user password Call BIOS Setup and select the Security menu.

Mark the Set Supervisor Password field and press the Enter key. Enter the password and press the Enter key. Enter the password again and press the Enter key. With Enter new Password: you are then requested to enter a password. With Confirm new Password you are asked to confirm the password.

With Notice: Changes have been saved you receive a confirmation that the new password has been saved. To assign the user password, mark the field Set User Password and proceed exactly as when configuring the supervisor password. Select the Exit Saving Changes option in the Exit menu. If you do not want to make any other settings, you can exit BIOS Setup. The notebook is rebooted and the new password is effective.

If you now want to open the BIOS Setup, you must first enter your supervisor or user password. Please note that you only have access to a few BIOS settings with the user password. Changing supervisor or user password Recall BIOS Setup and select the Security menu. When changing the password, proceed exactly as for password assignment. You can only change the supervisor password when you have logged into the BIOS Setup with the supervisor password. A26391-K180-Z120-1-7619, edition 1 45 Security functions Cancelling passwords To cancel a password (without setting a new password) run the following steps: Call BIOS Setup and select the Security menu. Mark the Set User Password or Set Supervisor Password field and press the Enter key. Press the Enter key twice. Select the Exit Saving Changes option in the Exit menu. With Enter new Password you will then be asked to enter a password.

Your notebook will now restart and the password is cancelled. With the supervisor password you simultaneously deactivate the user password. Password protection for starting the operating system i With the supervisor password or the user password, you have assigned in the BIOS Setup (see section "Set the supervisor and user password"), you can also prevent booting of the operating system. Activating system protection Call BIOS Setup and select the Security menu. If you have not assigned BIOS passwords yet, define the supervisor and the user password now, if desired (see "Set the supervisor and user password" section). Mark the Password on Boot field and press the Enter key. Select the Every Boot entry and press the Enter key. Select the Exit Saving Changes option in the Exit menu. If you do not want to make any other settings, you can exit BIOS Setup. The notebook reboots and you are asked to enter your password (the supervisor or user password).

Deactivating system protection Call BIOS Setup and select the Security menu. Mark the Password on Boot field and press the Enter key. Select Disabled and press the Enter key. Select the Exit Saving Changes option in the Exit menu. If you do not want to make any other settings, you can exit BIOS Setup.

The notebook reboots and there is no longer any password protection for the operating system. 46 A26391-K180-Z120-1-7619, edition 1 Security functions Password protection for hard disk i The hard disk password prevents unauthorised access to the hard disk drives and is checked internally each time the system is booted. The condition for this is that you have assigned at least the supervisor password. Activating hard disk protection Call BIOS Setup and select the Security menu. If you have not assigned BIOS passwords yet, define the supervisor and the user password now, if desired (see "Set the supervisor and user password" section).

Mark the Primary Hard Disk Password field and press the Enter key. Enter the password and press the Enter key. Enter the password again and press the Enter key. With Enter new Password: you are then requested to enter a password. With Confirm new Password you are asked to confirm the password. With Notice: Changes have been saved you receive a confirmation that the new password has been saved. If you do not want to make any other settings, you can exit BIOS Setup. Select the Exit Saving Changes option in the Exit menu. The notebook reboots and your hard disk is now protected with a password. The password request becomes active as soon as the hard disk is installed in another computer and the computer is started.

Deactivating hard disk protection To cancel a password (without setting a new password) run the following steps: Call BIOS Setup and select the Security menu. Mark the Primary Hard Disk Password field and press the Enter key. Press the Enter key twice. Select the Exit Saving Changes option in the Exit menu. With Enter new Password you will then be asked to enter a password. If you do not want to make any other settings, you can exit BIOS Setup. The notebook reboots and there is no longer any password protection for the hard disk. A26391-K180-Z120-1-7619, edition 1 47 Connecting external devices ! Before you connect or disconnect any devices from your notebook please read the safety notes in the "Important notes" chapter. Always read the documentation supplied with the device you wish to connect. Never connect, or disconnect cables during a thunderstorm.

Never pull on a cable when disconnecting it. Always hold the plug. Follow the steps below in order, when connecting or disconnecting devices to your notebook: Connecting devices to notebook 1. 2. 3.

4. Turn off your notebook and all external devices. Unplug your notebook and all devices from the mains sockets. Connect the cables for your external devices following the supplied instructions. Plug all power cables into the mains sockets.

Disconnecting devices from notebook 1. 2. 3. Turn off your notebook and all external devices. Unplug your notebook and all devices from the mains sockets. Disconnect the cables for your external devices following the supplied instructions. i Some of the external devices require special drivers (see the operating system and external device documentation). A26391-K180-Z120-1-7619, edition 1 49 Connecting external devices Ports 3 21 11 10 4 76 5 98 1= 2= 3= 4= 5= 6= Headphone port/SPDIF Line-In Microphone jack FireWire port USB ports Modem port 7= 8= 9= 10 = 11 = LAN port Monitor port S Video out socket DC jack (DC IN) USB ports Connecting an external monitor An external monitor can be connected to the notebook. Using the Fn + F3 key combination you can switch back and forth between the external monitor and the LCD screen.



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If your notebook is equipped with a TFT monitor, you can display the same picture on the external monitor and the LCD screen simultaneously.

Switch off the notebook and the external monitor. Connect the external monitor to the monitor port on your notebook. Switch your monitor on. Switch the notebook on. Setting the refresh rate for your external monitor The refresh rate must be correctly set so that the image does not flicker. Select the monitor type in the menu Start - Control Panel - Appearance and Themes - Display Settings - Advanced - Display. Now select the Adapter tab. Adjust the refresh rate. 50 A26391-K180-Z120-1-7619, edition 1 Connecting external devices Click on Apply. ! If the refresh rate set is too high, the monitor may be damaged.

Please see the documentation included with your monitor for the maximum possible refresh rate. Connecting USB devices On the USB ports you can connect external devices that also have a USB port (e.g. a printer, a scanner or a modem). i USB devices are hot-pluggable.

This means you can connect and disconnect devices while your notebook is running. USB 1.x has a maximum data transfer rate of 12 Mbit / s. USB 2.x has a data transfer rate of up to 480 Mbit/s.

Additional information can be found in the documentation for the USB devices. Connect the data cable to the external device. Connect the data cable to a USB port of the notebook. i Device drivers Some USB devices will be automatically recognised and installed by your operating system. However, newer devices will need to be installed using the supplied CD / DVD. Always follow the instructions supplied with the device to complete the installation. Connecting external audio devices Line-In Via the Line In port you can connect audio devices with an analogue output to your notebook. Headphones port Via the headphone port you can connect either headphones or external loudspeakers to your notebook. Microphone jack Via the microphone port you can connect an external microphone to your notebook. Adjusting the volume Or To adjust the volume use the Windows volume control from the Start menu - All Programs Accessories - Multimedia - Volume Control.

Set the desired volume with the key combination Fn + F6 or Fn + F7. A26391-K180-Z120-1-7619, edition 1 51 Connecting external devices Connecting FireWire devices External devices such as digital audio/video devices or other high-speed devices can be connected to the FireWire port. The FireWire port operates at a speed of 400 Mbit per second. i FireWire devices are hot-pluggable. Therefore, the cables of FireWire devices can be connected and disconnected with the notebook switched on. Additional information is provided in the documentation of the FireWire devices. Connect this data cable of the external devices to the FireWire port of the notebook. Plug the power cable of the external device into the mains socket. Connecting an external device to S-Video Out You can connect an external device (e.g.

a TV) to the S-Video Out socket of your notebook to view films from DVDs, photos or presentations etc. Using the Fn + F3 key combination you can switch back and forth between the external device and the LCD screen. Switch off the notebook and the external device. Connect the external device to the S-Video Out socket of your notebook. Switch the external device on.

Switch the notebook on. Activating external device Select the monitor type in the menu Start - Control Panel - Appearance and Themes - Display Settings - Advanced - Displays. Click on Apply. 52 A26391-K180-Z120-1-7619, edition 1 Removing and installing components when performing service ! Only qualified technicians should repair your notebook. Unauthorised opening or incorrect repair may greatly endanger the user (electric shock, fire risk) and will invalidate your warranty.

You may remove and install the components described in this chapter yourself after consulting the Hotline/Help Desk. ! If you remove and install components without consulting the Hotline/Help Desk, then the warranty of your notebook will be voided. Removing and installing SATA hard disk If you are asked by the Hotline/Help Desk to remove and install the SATA hard disk yourself, proceed as follows: Switch the notebook off and pull the power plug out of the mains socket. Close the LCD screen so that it locks into place. Disconnect all cables connected to the notebook. Turn your notebook over and place it on a sturdy, flat surface. Remove the battery (see "Removing battery"). Removing cover 1 2 Remove the screw (1). Pull the cover off the notebook (2).

A26391-K180-Z120-1-7619, edition 1 53 Removing and installing components when performing service Removing SATA hard disk 1 1 2 Remove the two screws (1).

Grasp the hard disk by the pulling aid and slide the hard disk in the direction of the arrow to unplug the hard disk (2). 2 1 Grasp the hard disk by the pulling aid (1) and remove the hard disk from the notebook (2). 1 2 1 Remove the two screws (1). Slide the hard disk out of the hard disk carrier (2) in the direction of the arrow. 54 A26391-K180-Z120-1-7619, edition 1 Removing and installing components when performing service Installing SATA hard disk 2 1 2 Slide the hard disk into the hard disk carrier in the direction of the arrow (1). Fasten the two screws (2). 2 1 Position the hard disk at a slight angle with the tab of the hard disk carrier first (1). Tilt the hard disk into the hard disk compartment (2). 2 2 1 Slide the hard disk in the direction of the arrow to insert the hard disk (1). Fasten the two screws (2).

A26391-K180-Z120-1-7619, edition 1 55 Removing and installing components when performing service Mounting the cover 2 1 Place the cover on its mounting location (1). Fasten the cover with the screw (2). Replace the battery (see "Inserting battery "). Turn the notebook over and place it on a flat surface. Reconnect the cables that you disconnected before.

Removing and installing optical drive If you are asked by the Hotline/Help Desk to remove and install the optical drive yourself, proceed as follows: Removing optical drive Switch the notebook off and pull the power plug out of the mains socket. Close the LCD screen so that it locks into place. Disconnect all cables connected to the notebook. Turn your notebook over and place it on a sturdy, flat surface. Remove the battery (see "Removing battery"). 1 2 Remove the screw (1). Firmly press a metal pin or wire (e.g. paperclip) into the opening (2). The drive tray is ejected. You can now pull out the drive tray completely. 56 A26391-K180-Z120-1-7619, edition 1 Removing and installing components when performing service a 1 a Handle the drive tray in the position illustrated (a) and pull the optical drive carefully out of the notebook in the direction of the arrow (1).



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Push in the drive tray until you feel it lock into place. Installing optical drive 2 1 Slide the optical drive into the notebook in the direction of the arrow (1). Fasten the screw (2).

Replace the battery (see "Inserting battery "). Turn the notebook over and place it on a flat surface. Reconnect the cables that you disconnected before. A26391-K180-Z120-1-7619, edition 1 57 Removing and installing components when performing service Removing and installing memory modules If you are asked by the Hotline/Help Desk to remove and install the memory modules yourself, proceed as follows: ! Please note the information provided in the "Safety notes" section in the "Important notes" chapter. The notebook must be switched off when installing/removing the memory modules, it must not be in Suspend mode. Use only memory modules which have been approved for your notebook: 256 or 512 Mbyte modules or 1 Gbyte modules of the type DDR2 SO-DIMM.

Do not use force when installing or removing a memory module. Make sure that foreign objects do not fall into the memory module compartment. The memory modules are located in a larger service compartment. You must open the entire service compartment when removing and installing a memory module. Once you have removed the cover, the various components are exposed. These components should be removed and replaced only by authorised specialists.

Therefore, be sure to observe the following: ! Individual components (e.g. the process heat sink) can become very hot during operation.

Therefore, we recommend that you wait one hour after switching off the notebook before removing or installing the memory modules. Otherwise, there is a danger of being burned! As some components with ESDs are exposed, please observe the section "Notes on installing and removing components" in the chapter "Important notes". Switch the notebook off. Close the LCD screen so that it locks into place. Unplug the mains adapter from the mains socket.

Disconnect all cables connected to the notebook. Place the notebook upside down on a flat surface. Remove the battery (see "Removing battery"). 58 A26391-K180-Z120-1-7619, edition 1 Removing and installing components when performing service Removing cover 1 2 a Remove the screws (1). Reach into the recess (a) with one finger and pull the cover off the notebook (2). Removing a memory module 3 2 1 1 Carefully push the two mounting clips outwards (1).

Pull the memory module out of its slot in the direction of the arrow (3). The memory module will flap upward (2). A26391-K180-Z120-1-7619, edition 1 59 Removing and installing components when performing service Installing a memory module 1 2 a Insert the memory module with the contacts and the recess (a) facing the slot (1). Carefully push the memory module downwards until it engages noticeably (2).

Mounting the cover 2 1 Place the cover on its mounting location and flap it into place on the underside of the notebook (1). Fasten the cover with the screws (2). Replace the battery (see "Inserting battery "). Turn the notebook over and place it on a flat surface. Reconnect the cables that you disconnected before. 60 A26391-K180-Z120-1-7619, edition 1 Settings in BIOS Setup In BIOS Setup you can set the system functions and the hardware configuration of the notebook. The settings can only be changed via the keyboard. When it is delivered, the notebook is set to factory default settings. You can change these settings in BIOS Setup. Any changes you make take effect as soon as you save and quit the BIOS Setup.

The BIOS Setup programme contains the following menus: Main: Advanced: Security: Boot: Info: Exit: for system settings as time, date, hard disk and monitor selection for system settings such as ports and keyboard for password settings and safety functions for configuring the boot sequence for displaying the system configuration (e.g. processor and memory configuration) to exit the BIOS Setup Start BIOS Setup Restart the notebook (switching ON/OFF or warm boot). <F12> Boot Menu <F2> BIOS Setup The following display briefly appears on the screen during start-up: <ESC> Diagnostic screen When this message appears, press the function key F2 . i If a password has been assigned: Enter the password and press the Enter key.

If you have forgotten the password, contact your system administrator or contact our hotline/help desk. A26391-K180-Z120-1-7619, edition 1 61 Settings in BIOS Setup Operating BIOS Setup i Press the F1 key to display help on the operation of BIOS Setup. The description of the individual settings is shown in the right-hand window of the BIOS Setup. You can revert to the default settings for the BIOS Setup menu you are currently in, by using the F9 function key. Use the cursor key Press the Enter key.

Use the cursor key or to select the field you wish to change. or to select the menu you wish to access to make changes. The menu is displayed on the screen. Press the Enter key to confirm your selection. Press the ESC key to exit the selected menu. For future reference, make a note of the changes you have made (for example, in this manual). Exiting BIOS Setup To exit BIOS Setup, select the Exit menu from the menu bar. You can then decide which settings you want to save. The Exit menu offers the following options. You must mark the required option and activate it with the Enter key.

Exit Saving Changes Select Exit Saving Changes and Yes to save the current settings and exit the BIOS Setup. The device is rebooted and the new settings come into effect. Exit Discarding Changes Select Exit Discarding Changes and Yes to discard the changes you have made. The settings which were in force when BIOS Setup was called remain effective. BIOS Setup is terminated and the device is rebooted. Load Setup Default To revert all the menus of BIOS Setup to the default entries, select Load Setup Default and Yes. Discard Changes To load the values of all the menus of BIOS Setup that were in effect when BIOS Setup was called, select Discard Changes and Yes. If you want to exit BIOS Setup with these settings, select Exit Saving Changes and Yes. Save Changes To save settings without exiting BIOS Setup, select Save Changes and Yes. 62 A26391-K180-Z120-1-7619, edition 1 Troubleshooting and tips ! Take note of the safety notes in the "Safety" manual, when you connect or disconnect cables.

If a fault occurs, try to correct it as described. If you fail to correct the problem, proceed as follows: Make a note of the steps and the circumstances that led to the fault. Also make a note of any error messages displayed. Switch the notebook off. Please contact the hotline/help desk.

The telephone numbers are contained in the supplied help desk list. Please have the following information ready when you call: The model name and serial number of the notebook.



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