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You can read the recommendations in the user guide, the technical guide or the installation guide for FUJITSU SIEMENS SCENIC PRO C5/D5/M5. You'll find the answers to all your questions on the FUJITSU SIEMENS SCENIC PRO C5/D5/M5 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 SCENIC PRO C5/D5/M5
User guide FUJITSU SIEMENS SCENIC PRO C5/D5/M5
Operating instructions FUJITSU SIEMENS SCENIC PRO C5/D5/M5
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Instruction manual FUJITSU SIEMENS SCENIC PRO C5/D5/M5

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SCENIC PS

Operating Manual

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Herausgegeben von/Published by
Siemens Nixdorf Informationssysteme AG
D33094 Paderborn
D81730 München

Bestell-/Order No.: **A26361-K405-Z111-1-7619**
Printed in the Federal Republic of Germany
AG 696 6/96

A26361-K405-Z111-1-7619



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Manual abstract:

@@Contact us for information on consulting, course schedules and selfstudy material Either fax (which is the fastest way): Fax: ++49(89) 636-42945 Or write to: Settings in BIOS Setup Operating Manual Property and data protection Siemens Nixdorf Informationssysteme AG Training Center, Beratungsservice D-81730 München Troubleshooting and tips System expansions Technical data Microsoft, MS, MS-DOS and Windows are registered trademarks of Microsoft Corporation. DPMS and VESA are registered trademarks of Video Electronics Association. Copyright Siemens Nixdorf Informationssysteme AG 1996. Index

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In the BIOS Setup you may set further energy-saving functions for the PC.

Information on energy-saving functions of the BIOS Setup is provided in the Technical Manual of the system board. Using the QuickLock or DeskLock screen saver you can lock the mouse and keyboard so that no input can be made. If the attached monitor supports power management in accordance with VESA (DPMS), it can be switched into powersaving mode at the same time. In addition, you can set further energy saving functions via the Screen saver tab. In the start menu choose Settings - Control Panel - Display - Display Properties - Screen Saver - Energy saving functions for the display.

Do not throw lithium batteries or accumulators into the trashcan. The battery or the real-time clock chip must be disposed of in accordance with local regulations concerning special waste. If you have any questions on disposal, please contact your local office, our service department, or, directly: Siemens Nixdorf Informationssysteme AG Recycling Center D-33094 Paderborn Tel.: ++49 5251 720 810 Fax: ++49 5251 720 815 Energy Star If there is an Energy Star symbol on the device, then: This equipment fulfills the requirements of the US Environmental Protection Agency (EPA) as set down in their regulations and guidelines for energy-efficient computers (US government initiative "EPA Energy Star Computers"). The EPA estimates that computer equipment uses 5 percent of all business electricity and it's growing rapidly.

If all desktop PCs and peripherals enter a lowpower mode when not in use, the overall savings in electricity could amount to \$ 2 billion annually. These savings could also prevent the emission of 20 million tons of carbon dioxide into the atmosphere - the equivalent of 5 million automobiles. The EPA is pursuing the sole goal of promoting the idea of energy-saving. No recommendations of individual companies or products are made. CE certificate If there is a CE symbol on device, then: This device complies with the requirements of the EEC directive 89/336/EEC "Electromagnetic compatibility" and 73/23/EEC "Low voltage directive" with amending directive 93/68/EEC. RFI suppression All other devices connected to this product must have RFI suppression in accordance with EC directive 89/336/EEC. Products meeting these requirements are accompanied by a certificate issued by the manufacturer and carry the CE symbol. A26361-K405-Z111-2-7619 5 6 A26361-K405-Z111-2-7619 Transporting the PC Important notes Important notes Cleaning the PC Transporting the PC Cleaning the mouse Remove the retaining ring on the underside of the mouse and then clean the mouse mechanism and the rotating ball. ! Transport all parts separately, and in their original packaging or in a packaging which protects them from knocks and jolts, to the new site. Do not unpack them until all transport maneuvers are completed.

Never drop the monitor (danger of implosion)! 2 3 4 Cleaning the PC 1 ! Turn off all power and equipment switches and pull the power plug out of the grounded-contact utility power sockets. Do not clean any interior parts yourself, leave this job to a service technician. Do not use any cleaning agents that contain abrasives or may corrode plastic. Ensure that no liquid enters the system. Ensure that the ventilation areas of the system unit and the monitor are free. Using both thumbs exert downward pressure on the notches of the retaining ring and turn the ring anticlockwise (1). Remove the retaining ring and the rotating ball from the mouse (2). Clean the three small wheels in the mouse and the ball with a lint-free cloth. Replace the ball and the retaining ring (3).

Using both thumbs exert downward pressure on the notches of the retaining ring (4) and turn the ring clockwise.

You must feel the ring engage. Wipe the system unit and monitor housing with a dry cloth, or if particularly dirty, use a cloth which has been moistened in mild domestic detergent and then carefully wrung out. Use a cloth for disinfection to clean the keyboard. A26361-K405-Z111-2-7619 7 8

A26361-K405-Z111-2-7619 Cleaning the PC Important notes Important notice concerning power cord selection Class B The following statement applies to the products covered in this manual, unless otherwise specified herein. The statement for other products will appear in the accompanying documentation.

Important notice concerning power cord selection The power cord for this unit has been packed separately and has been selected according to the country of destination. It must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set. The female receptacle of the cord set must meet CEE-22 requirements (see Figure 1). NOTE: This equipment has been tested and found to comply with the limits for a „Class B" digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in strict accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between equipment and the receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. Figure 1 For the United States and Canada Use a UL listed and CSA labelled cord set consisting of a three conductor cord with a maximum length of 15 feet. For units which stand on a desk or table, type SVT or SJT cord sets shall be used. For units which stand on floor, only SJT type cord sets shall be used.

The cord set must be selected according to the current rating for your unit. Please consult Table A for the selection criteria for power cords used in the United States and Canada. Siemens Nixdorf Informationssysteme AG is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Siemens Nixdorf Informationssysteme AG. The correction of interferences caused by such unauthorized modification, substitution or attachment will be responsibility of the user. The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices.



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Failure to do so may violate FCC rules. This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. A26361-K405-Z111-2-7619 9 10 A26361-K405-Z111-2-7619 Important notice concerning power cord selection Table A: Cord Type SJT Size of Conductors in Cord 18 AWG 16 AWG 14 AWG 18 AWG 17 AWG Important notes Important notes WARNING Important notice concerning power cord selection Maximum Current Rating of Unit 10 Amps 12 Amps 10 Amps 12 Amps THIS APPLIANCE MUST BE EARTHED IMPORTANT The wires in this mains lead are coloured in accordance with the following code: Green and Yellow: Blue: Brown: Earth Neutral Live SVT For units set at 115 V: use a parallel blade, grounding type attachment plug rated 15 A, 125 V (Figure 2). For units set at 230 V (domestic use): use a tandem blade, grounding type attachment plug rated 15 A, 250 V (Figure 3). As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured Green or Green and Yellow. The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black. The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red. Figure 2 Figure 3 For units set at 230 V (outside of the United States and Canada): use a cord set consisting of a minimum AWG according to Table A and a grounding type attachment plug rated 15 A, 250 V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed and should be marked HAR.

For the United Kingdom Should the plug on the flexible cord not be of the type for your socket outlets, do not use an adapter but remove the plug from the cord and discard. Carefully prepare the end of the supply cord and fit a suitable plug. 11 12 A26361-K405-Z111-2-7619 A26361-K405-Z111-2-7619 Preparation for use and operation Preparing the PC for use Preparation for use and operation Preparing the PC for use The first setup of the PC includes the connection of the devices and the setup of the supplied software. When you set up the PC for the first time, you should carry out the following steps in the order shown. Unless otherwise specified, the steps are described in this chapter.

! Please take note of the safety information in the chapter "Important notes". Unpacking and checking the delivery It is recommended not to throw away the original packing material! It may be required for reshipment at some later date. 1. 2. 3. 4. Decide where you are going to install the PC. Connect the external devices to the PC. Check the rated voltage and connect the PC to line voltage. Switch the PC on and follow the instructions on the screen.

Unpack all the individual parts. Check the delivery for damage incurred during transport. Check whether the delivery agrees with the details in the delivery note. Check whether all the necessary details have been entered on the first page of the guarantee coupon booklet. i If you want to partition your hard disk, please refer to chapter "Troubleshooting and tips" - "Reinstallation of the hard disk". Should you discover that the equipment has been damaged during transport or that the delivery does not correspond to the delivery note, notify your local sales office immediately. Setting up the PC i If you have received drives or boards with your PC, mount them before installing the PC. The chapter "System expansions" will tell you how to do this. ! When installing your PC, give consideration to the recommendations about an ergonomic video workstation in the "Safety and ergonomics" manual. Install the PC only in the location provided for it.

The points to observe are illustrated on the following pages. We recommend that you place your equipment on a surface with good anti-slip qualities. In view of the multitude of different finishes and varnishes used on furniture, it is possible that the PC's rubber feet will mark the surface it stands on. Do not expose the PC to extreme environmental conditions (see chapter "Technical data"). Protect it from dust, humidity and heat.

Provide at least 200 mm of clearance on the left and behind the ventilator area of the system unit to ensure adequate ventilation. Do not cover the ventilation areas of the monitor and the fan. A26361-K405-Z111-2-7619 13 14 A26361-K405-Z111-2-7619 Connecting devices Preparation for use and operation Preparation for use and operation Connecting devices Connecting devices The power plug must be pulled out! Ports for external devices The ports for external devices are on the rear and on the front of the system unit. Which ports are available on your PC depend on the boards installed. The following figure gives an example of the ports' position.

More details on the port positions are given in the Technical Manuals of the boards. Some ports are indicated by symbols. In order to use the Game/Midi port at the front of the system unit (not available in all systems), you must pull off the port cover in the direction of the arrow. ! Read the documentation about the external device before connecting it. Do not connect or disconnect cables during a thunderstorm. Never unplug a cable by pulling the cable itself. Always take hold of the actual plug body! Connect and disconnect the cables in the order described below. Connecting cables 1 2 Turn off all power and equipment switches. Pull all power plugs out of the grounded-contact utility power sockets. Plug all cables into the system unit and peripherals.

Please observe under all circumstances the information provided in the chapter "Important notes". Plug all data communication cables into the utility sockets. Plug all power cables into the grounded-contact utility power sockets. 1= 2= 3= 4= 5= 6= 34 5 6 78 9 10 11 Disconnecting cables Turn off all power and equipment switches. Pull all power plugs out of the grounded-contact utility power sockets. Unplug all data communication cables from the utility sockets. Disconnect all cables from the system unit and peripherals. Port for infrared receiver (optional) Fax/modem port (if present) Keyboard port PS/2 mouse port Serial port Parallel port 7 = Audio output (Line out) 8 = Audio input (Line in) 9 = Microphone port 10 = Monitor port (15-pin - may also be located elsewhere) 11 = Game/Midi port (optional) A26361-K405-Z111-2-7619 15 16 A26361-K405-Z111-2-7619 Connecting devices Preparation for use and operation Preparation for use and operation Connecting devices Connecting the keyboard Plug the round plug of the keyboard cable into the keyboard port on the system unit.



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Connecting the mouse to the PS/2 or serial port You should connect a mouse with a round PS/2 connector to the PS/2 mouse port, or a serial mouse to the serial port of the system unit. It may be necessary to select a specific mouse driver in the operating system (see operating system documentation).

i Only one mouse may be connected to the PC (keyboard and system unit). You may not operate two mouse devices simultaneously. If you attach a serial mouse, you can disable the mouse controller in the BIOS Setup in order to free the IRQ12 for a different application. If the mouse controller is disabled, you will not be able to operate either the supplied mouse nor a mouse connected to the PS/2 mouse port. Depending on the keyboard type, plug the other connector of the keyboard cable into the socket on the underside (left) of the keyboard or into the righthand socket on the rear of the keyboard (right).

Connecting devices with serial or parallel ports Connect the data cable to the external device. Connect the data cable of the external device to the appropriate port on the system unit. Connecting the mouse to the keyboard i If your mouse has an angular connector, it must be connected to the keyboard. i Most devices that you connect to the serial or parallel port require special drivers. MS-Windows already includes many drivers but if the driver you need is not on the hard disk please install it from the floppy disk supplied with the device or with the application program.

If you need to change the default settings of the serial or parallel port (e. g. address, interrupt), you can do so in the BIOS Setup. The default settings of the ports are given in the Technical Manual for the system board. Plug the connector of the mouse cable into the left-hand socket on the rear of the keyboard. Fit the mouse cable into the corresponding guide on the underside of the keyboard. In the mouse device connected to the keyboard the upper part (hand support with buttons) can be swivelled to the left or right. Adjust it so that your hand is in a comfortable relaxed position when using the mouse.

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Connecting devices Connecting loudspeakers, a microphone and audio devices Plug the data cable of the monitor into the monitor port (15-pin) of the system unit. If the system unit has two CRT controllers, connect the data cable to the second controller.

i Only on a system unit with audio functionality. 2 Only active loudspeakers may be used. The external microphone must be a dynamic microphone or a condenser microphone. Connect the cable of the external loudspeakers to the audio output of the system unit. Connect the cable of the external microphone to the microphone port of the system unit. Connect the audio output of the external audio device (e. g. mixer, stereo system) to the audio input of the system unit.

1 Connecting a joystick Connect the data cable of the joystick to the Game/Midi port of the system unit. Depending on the connector, plug the monitor's power cable into either the system unit (1) or the power outlet (2).

! Connecting the monitor i On systems with audio functionality and a SCENIC monitor: If you attach a monitor other than a SCENIC monitor, you must not plug the monitor power cable into the monitor port unless the rated current of the monitor is less than 1.5 A (230 V) or 3 A (115 V). The rated current for the monitor is also given on the monitor itself and in the Operating Manual for the monitor. Attach the optional loudspeakers to the SCENIC monitor (see the Operating Manual of the monitor). Plug the MIC plug on the data cable of the monitor into the microphone port on the system unit (MIC plug and microphone port are marked with the same symbol).

Plug the AUX plug on the data cable of the monitor into the audio output on the system unit (AUX plug and audio output are marked with the same symbol). You can adjust the volume with the audio software or with the volume button of the monitor (see the documentation for the audio software and the Operating Manual of the monitor). A26361-K405-Z111-2-7619 19 20 A26361-K405-Z111-2-7619 Connecting the system unit Preparation for use and operation

Preparation for use and operation Switching the PC on and off Connecting the system unit Switching the PC on and off 0 1 2 1 1 Plug the system unit's power cable into the system unit (1). @@@@After approx. @@@@Connect the Game/MIDI port to the MIDI interface box.

@@@@Save the MIDI file with File - Save. Playing back a MIDI file Press the Play button. You must now also change the basic configuration of your system accordingly. Enable the MIDI interface with: Start - Settings - Control Panel - System icon Device-Manager index tab. Select the Resources index tab under Sound, video and game controllers for the setting Creative Labs Sound Blaster 16 or AWE 32. Disable the setting Use automatic settings. Select Basic Configuration 6 in the list box Setting based on. Confirm with OK and select Yes in the following dialog box. Restart the system with Start - Shut down - Restart Windows. Start your MIDI Recording Session program.

Disable the setting Disable MIDI input (empty checkbox) in the menu item Setup - MIDI drivers. Enable the menu item Options - MIDI Thru. This enables you to listen to the MIDI data sent during the transfer procedure. Give it a try. Changing MIDI settings As standard, MIDI files are converted into corresponding sounds by the integrated synthesizer. If you use a Wavetable board or an external synthesizer as the sound generator, you must change the standard setting as follows. Enable the MIDI interface with: Start - Settings - Control Panel - Multimedia icon - MIDI index tab. Select the entry External MIDI Port in the field Single instrument. A26361-K405-Z111-2-7619 25 26 A26361-K405-Z111-2-7619 Displays on the system unit Preparation for use and operation Preparation for use and operation Working with floppy disks Displays on the system unit Working with floppy disks ! 1 2 3 Follow the instructions supplied by the vendor of the floppy disks. Never clean the PC's floppy disk drives with cleaning disks.

Even just one attempt would destroy the read/write head in the disk drive within 20 seconds. 5 4 4 1 = Floppy disk drive display 2 = CD-ROM drive display 3 = Power ON display 4 = Hard disk drive display 1 2 3 6 7 1 - Floppy disk drive display The display lights up when the floppy disk drive of the system unit is accessed. 1= 2= 3= 4= 2 - CD-ROM drive display (optional) The display lights up when the CD-ROM drive of the system unit is accessed. Insertion direction Label area Write-protect slider Hole for recognition of 1.



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44 Mbyte disks 5 = Eject button for inserted floppy disks 6 = Floppy disk is write protected 7 = Floppy disk is not write protected To insert a floppy disk, push it into the drive in the insertion direction (1) until it engages.

The label area (2) should be facing upward. To remove the floppy disk, press the eject button (5). 3 - Power ON display dark = System unit is switched off. green = System unit is switched on. orange = System unit is ready-to-operate, consumes a minimum of energy and can be switched on with the ON/OFF switch.

If the remote on functionality is enabled in the BIOS Setup, the system unit can be switched on by an incoming message (e. g. fax, telephone call). The write-protect slider enables you to protect the data on the floppy disk from inadvertent overwriting or deletion. To protect the data on the floppy disk from being overwritten, push the writeprotect slider to position (6). The hole is now visible. To remove write protection, push the slider to position (7). The hole is now covered. 4 - Hard disk drive display The display lights up when the hard disk drive of the system unit is accessed. A26361-K405-Z111-2-7619 27 28

A26361-K405-Z111-2-7619 Keyboard Preparation for use and operation Preparation for use and operation Keyboard Keyboard 1 Num Lock Num Lock key By pressing the Num Lock key you switch between the upper- and lower-case levels of the calculator keypad.

At lower-case level (Num Lock lamp not lit) the cursor control functions are active in the calculator keypad. At upper-case level (Num Lock lamp lit) the digit and comma keys are active. Ctrl key starts key combination actions. Del Ctrl Ctrl Alt 2 1 = Function keys 2 = Alphanumeric keypad 3 4 3 = Cursor control keys 4 = Calculator keypad (numeric keypad) Warm boot resets and restarts your PC. First hold down the and key, and then press the key. Important key combinations The following description of keys and key combinations refers to MS-Windows. Details of other keys and key combinations can be found in the documentation of the relevant application program. Enter key confirms or starts the marked selection. This key is also referred to as the "Return" key or "Carriage Return". Start key invokes the START menu of MS-Windows.

Menu key invokes the menu for the marked object. Shift key enables upper-case letters and the upper key symbols to be displayed. Alt Gr Alt Gr key (e. g. German keyboard) Produces a character shown on the right-hand side of a key (e.

g. the character "\n" on the key). A26361-K405-Z111-2-7619 29 30 A26361-K405-Z111-2-7619 Settings in BIOS Setup Calling BIOS Setup Settings in BIOS Setup Phoenix BIOS Setup Copyright 1985-95 Phoenix Technologies Ltd. In BIOS Setup you can set the system functions and the hardware configuration of the PC. When the PC is delivered, the default entries are valid (see Technical Manual for the system board).

You can customize these settings to your requirements in BIOS Setup. If you want to change settings in BIOS Setup, you must: call BIOS Setup select the relevant menu select the field for the entry you want to change change the entry make other settings, if required save the settings and exit BIOS Setup This section shows you how to call and operate BIOS Setup. The menus and setting options provided by BIOS Setup are described in detail in the Technical Manual for the system board. 1 2 Main Advanced Security Power Exit Item Specific Help System Time: System Date: Diskette A: Diskette B: Hard Hard Hard Hard Disk Disk Disk Disk 1: 2: 3: 4: [19:47:37] [04/08/1995] [1.4M] [None] 850 Mbyte None None None 3 Boot Options Video Display: Base Memory: Extended Memory: [EGA/VGA] 640K 7M 4 F1 Help ESC Exit Select Item Select Menu -/+ Change Values Enter Execute Command F9 Setup Defaults F7 Previous Values Example of the Main menu of the BIOS Setup 1 = Menu bar 2 = Working area 3 = Information area 4 = Operations bar Calling BIOS Setup Reboot the PC. One of the following messages will be displayed at the bottom of the screen: Press <F2> to enter Setup Press <F1> to resume, <F2> to Setup The BIOS Setup screen is divided into the following areas: Menu bar (1) In the menu bar, you can select the different BIOS Setup menus. Working area (2) The working area displays the setting options (fields) of the selected menus. You can set the entries in the displayed fields according to your requirements. indicates fields which open further submenus. You can change entries in these submenus.

Information area (3) The information area displays brief information on the selected field. Operations bar (4) The operations bar indicates which keys you can use to operate BIOS Setup. You can display more information on the functions of the keys by pressing . Press function key F2 . i If you have assigned a setup password, you must now enter this password and confirm it with the Enter key. The Main menu of BIOS Setup is displayed on the screen. i

A26361-K405-Z111-2-7619 31 32 A26361-K405-Z111-2-7619 Operating BIOS Setup Settings in BIOS Setup Settings in BIOS Setup Exiting BIOS Setup Operating BIOS Setup If you want to exit BIOS Setup without saving the new settings: 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.

Press the Esc key to enter the Exit menu. Select the option Discard Changes & Exit. Press the Enter key Save Changes & Exit This option saves the current settings in the menus and exits BIOS Setup. The PC part is rebooted and the new settings come into effect. Changing settings ou To select the required menu in the menu bar, use the cursor keys , .

The selected field is select the required field, use the cursor keys outlined. To Discard Changes & Exit This option discards the changes you have made. The settings which were in force when BIOS Setup was called remain effective. BIOS Setup is terminated and the PC part is rebooted. To display a submenu, select the corresponding field (marked with), and press the Enter key.

Press the to return from the submenu to its superior menu. To change the entry for the selected field, use the numerical keypad. or keys on the Get Default Values This option reverts all the menus of BIOS Setup to the default entries. If you want to exit BIOS Setup with these settings, select Save Changes & Exit.

To set the default entries for the selected menu, press the function key F9 . To revert the fields of the selected menu to the entries that were in effect when BIOS Setup was called, press the function key . Saving settings To save changed settings without exiting BIOS Setup, select Save Changes in the Exit menu.



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Load Previous Values This option reverts all the menus of BIOS Setup to the default entries. If you want to exit BIOS Setup with these settings, select *Save Changes & Exit*. i If you change entries in BIOS Setup, make a note of the changed entries (e.

g. in the technical manual for the system board), or print out the changed screen page. You can print the current screen page using the key combination + if a printer is connected to the PC's parallel port. *Save Changes* This option saves settings without exiting BIOS Setup. A26361-K405-Z111-2-7619 33 34 A26361-K405-Z111-2-7619 Property and data protection BIOS Setup security functions Property and data protection For protecting your system and personal data from unauthorized access, you can use the MS-Windows and/or the BIOS Setup security functions. Preventing unauthorized access to the settings of boards with their own BIOS You can activate this protection by selecting the value *Extended* for *Setup Password Lock* field in the *Security* menu. Preventing system boots from the diskette drive Security functions under MS-Windows Under MS-Windows you can activate a screen saver and protect it with a password. Only those users who know the password can deactivate the screen saver and access any open files. Detailed information on screen savers under MS-Windows is provided by the associated help function. The *QuickLock* or *DeskLock* program enables you to activate the screen saver using a short-cut. Detailed information on this program is also provided by the associated help function. You can activate this protection by selecting the value *Diskette Lock* for the *System Load:* field in the *Security* menu. Activating virus warnings You can have a warning output if the boot sector has been modified. To activate this warning, select the value *Enabled* for the *Virus Warning* field in the *Security* menu. Preventing unauthorized writing of diskettes BIOS Setup security functions The *Security* menu in BIOS Setup offers you various options for protecting your system and personal data from unauthorized access.

By combining these options, you can achieve optimum protection for your system. To activate this protection, select the value *Disabled* for the *Diskette Write* field in the *Security* menu. Protecting BIOS from overwriting To activate this protection, select the value *Disabled* for the *Flash Write* field in the *Security* menu. i Detailed information of the *Security* menu can be found in the *Technical Manual* for the system board. The sections "Setting the setup password" and "Setting the system password" describe how you set up passwords.

Protecting PC from being switched on by an external device To activate this protection select the value *Disabled* for the *Remote Power On* field in the *Security* menu. Preventing unauthorized BIOS Setup calls You can activate this protection by setting a setup password in the *Security* menu. In addition, you can suppress the *Press F2 for Setup* message when the system is booted. Preventing unauthorized system access You can activate this protection by setting a system password in the *Security* menu. A26361-K405-Z111-2-7619 35 36 A26361-K405-Z111-2-7619 BIOS Setup security functions Property and data protection Property and data protection Cancelling setup password BIOS Setup security functions Setting the setup password The setup password prevents unauthorized callup of BIOS Setup. BIOS Setup can be called only by those who know the setup password. i If you cancel the setup password, you automatically deactivate the system password. i The password must be four to eight characters in length. All alphanumeric characters can be used; no differentiation is made between upper case and lower case. Passwords are not displayed as they are entered.

If you have forgotten your passwords, please contact your technical customer service. To cancel the setup password (without setting a new password): Call BIOS Setup and select the *Security* menu (see "Settings in BIOS Setup"). Mark the *Set Setup Password* field and press the *Enter* key. You are asked to enter a password: *Enter new Password:* To set or change the setup password, proceed as follows: Press the *Enter* key twice. Select option *Save Changes & Exit* in the *Exit* menu. Call BIOS Setup and select the *Security* menu (see "Settings in BIOS Setup"). Mark the *Set Setup Password* field and press the *Enter* key. The PC is rebooted and the setup password is cancelled. You are asked to enter the password: *Enter new Password:* Enter the setup password and press the *Enter* key.

You are asked to confirm the password: *Re-enter new Password:* Enter the setup password again and press the *Enter* key.

The new password is saved. Changes have been saved [Continue] You can now choose whether you want the setup password to prevent calling of the BIOS Setup only or in addition lock the settings of installed boards with their own BIOS. To prevent calling of the BIOS Setup only, mark the *Setup Password Lock* field and select the value *Standard*. To lock the settings of installed boards with their own BIOS in addition to prevent calling of the BIOS Setup, mark the *Setup Password Lock* field and select the value *Extended*. If you do not want to change any other settings, you can exit BIOS Setup.

Select option *Save Changes & Exit* in the *Exit* menu. The PC is rebooted and the new setup password is effective. A26361-K405-Z111-2-7619 37 38 A26361-K405-Z111-2-7619 BIOS Setup security functions Property and data protection Property and data protection Cancelling system password BIOS Setup security functions Setting the system password The system password prevents unauthorized access to your PC. It can either prevent booting of the operating system or lock the keyboard. The system can be accessed only by those who know the system password.

You must also set a setup password to make the system password effective. To cancel the system password (without setting a new password): Call BIOS Setup and select the *Security* menu (see "Settings in BIOS Setup"). Mark the *Set System Password* field and press the *Enter* key. You are asked to enter a password:

Enter new Password: i The password must be four to eight characters in length. All alphanumeric characters can be used; no differentiation is made between upper case and lower case. Passwords are not displayed as they are entered. If you have forgotten your passwords, please contact your technical customer service. Press the *Enter* key twice. Select option *Save Changes & Exit* in the *Exit* menu. The PC is rebooted and the system password is cancelled.

To set or change the system password, proceed as follows: Call BIOS Setup and select the *Security* menu (see "Settings in BIOS Setup"). Mark the *Set System Password* field and press the *Enter* key.



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You are asked to enter a password: Enter new Password: Enter the system password and press the Enter key. You are asked to confirm the password Re-enter new Password: Enter the system password again and press the Enter key. The new password is saved. Changes have been saved [Continue] To prevent booting of the operating system, mark the System Password Mode field and select the value System. ! To lock the keyboard and the mouse use the security functions of your operating system instead of the Keyboard entry. If you do not want to change any other settings, you can exit BIOS Setup. Select option Save Changes & Exit in the Exit menu. The PC is rebooted and the new system password is effective.

A26361-K405-Z111-2-7619 39 40 A26361-K405-Z111-2-7619 Troubleshooting and tips Screen has been blanked Troubleshooting and tips Press any key on the keyboard. or Deactivate screen blanking (screen saver) by entering the relevant password. ! Take note of the safety hints in the manual "Safety and Ergonomics" and in the chapter "Preparation for use and operation", when you connect or disconnect cables. If a fault occurs, try to correct it as described: in this chapter in the documentation of the connected devices in the help systems of the software used. If you fail to correct the problem, proceed as follows:

Brightness control is set to dark Set the brightness control to light.

For detailed information, please refer to the Operating Manual supplied with your monitor. Switch off the PC. Make a note of the steps and the circumstances that led to the fault. Also make a note of any error messages displayed. Contact your sales office or customer service.

Power cable or data cable of the monitor not connected Switch off the monitor and the system unit. Check whether the monitor power cable is properly connected to the monitor and system unit or to the power outlet. Check whether the monitor data cable is properly connected to the system unit and monitor (if it is plugged in with a connector). If the system unit has two CRT controllers, connect the data cable to the second controller. Switch on the monitor and the system unit. Power ON display remains dark after you have switched on your PC Check whether the power cable is plugged properly into the system unit and power outlet. Use the main switch to switch on your PC. Wrong monitor has been set Restart your PC. If the message Starting Windows95 appears, press function key . The Windows 95 start menu appears.

The screen stays blank If your screen remains blank this may have the following reasons: Select the option Save mode or Save mode with network support. Using the Refrate program set the correct values for the attached monitor. Monitor is switched off Switch your monitor on. A26361-K405-Z111-2-7619 41 42 A26361-K405-Z111-2-7619 Troubleshooting and tips Troubleshooting and tips No screen display or display drifts The wrong line frequency and/or resolution has been selected for the monitor or for the application program. Select the option Save mode, and press the Enter key. Set the correct monitor (see documentation for MS-Windows). If the correct monitor is already set, try the Standard VGA setting for your application. Terminate the application program with + If the error persists after the program has been terminated, switch the monitor off, wait at least three minutes, and then switch the monitor on again.

Restart your PC. If the message Starting Windows95 appears, press function key Select the option Save mode, and press the Enter key.

Set the correct monitor (see documentation for MS-Windows). If the correct monitor is already set, try the Standard VGA setting for your application. No mouse pointer displayed on the screen Switch your PC off. Check whether the mouse cable is properly connected to the system unit. If you use an adapter or extension lead with the mouse cable, check the connector.

Make sure, that only one mouse is connected. Switch your PC on. Check in the BIOS Setup whether the mouse controller is enabled. Check whether the mouse driver is properly installed and is present when the application program is started. .

Flickering stripes on the monitor screen ! Switch off the PC immediately! Detailed information can be found in the User Guides of the mouse or application program. The flickering stripes are caused either by an old-type screen that does not support the line frequency of 47 kHz, or by an incorrect monitor selection under MS-Windows. The default screen values are as follows: 800x600 pixels at 75 Hz and for 64K colors. The floppy disk cannot be read or written Check whether the write protection of the floppy disk or the floppy disk drive is activated (refer also to the Technical Manual of the system board). Check the relevant entries for Diskette A: and Diskette B: in the Main menu of the BIOS Setup. Check whether the floppy disk drive controller is enabled (refer also to the Technical Manual of the system board) Check whether the lines of the floppy disk drive are properly connected (refer to chapter „System expansions“). Find out the line frequency (also known as horizontal frequency) of your monitor by referring to the Operating Manual for the monitor. Restart your PC. If the message Starting Windows95 appears, press function key . The Windows 95 start menu appears.

Select the option Save mode or Save mode with network support. Using the Refrate program set the correct values for the attached monitor. Restart your PC.

If the message Starting Windows95 appears, press function key . 43 44 A26361-K405-Z111-2-7619 A26361-K405-Z111-2-7619 Troubleshooting and tips Troubleshooting and tips Time and/or date is not correct Set the time and/or date. You can do this in the BIOS Setup, in "Home Office" (with the digital clock) or under MS-Windows (Start - Settings - Control Panel). Volume of loudspeakers attached to the SCENIC monitor cannot be adjusted The loudspeakers on the monitor are always set to 50% of maximum volume when the PC is switched on. If you can hear no sound at the loudspeakers, they are either switched off (at the mute button on the monitor or in the Audio Mixer) or the volume adjustment is too low (volume button on the monitor or in the Audio Mixer). i If the time and date are repeatedly wrong when you switch on your PC, the battery is flat. Change the lithium battery as described in the Technical Manual of the system board.

Check the loudspeaker volume control of the audio software (e. g. Audio Mixer). On the monitor check if the volume control has been set to minimum or if the mute button has been pressed. Check whether the loudspeaker connector of the SCENIC monitor data cable is plugged into the audio output of the system unit.



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Check whether the loudspeakers are correctly installed. BIOS settings in power management do not become active The Windows Auto insert notification setting may be active for the CD-ROM drive. This setting causes Windows 95 to inquire about any modifications on the drive at regular intervals, and the timer for the idle time cannot time out. To activate power management, proceed as follows: In Windows, select Start - Control panel - System - Device manager - CD-ROM. Select the installed CD-ROM drive from the list.

Select Settings. Deactivate the Auto insert notification box. Microphone does not function A microphone is built into the center of the top edge of the SCENIC monitor. It is always switched off when you switch on your PC. You can switch it on using the Audio Mixer (e. g. in the hifi tower of the "Home Office"). You can make recordings using the Wave Recorder (e. g. in the hifi tower of the "Home Office").

Always speak in the direction of the microphone. No Home Office Depending on the configuration of your PC, you are placed in the "Home Office" or the Windows 95 interface when your PC has completed its startup routine. Error messages on the screen Error messages are listed in the Technical Manual of the system board and in the documentation of the installed software. A26361-K405-Z111-2-7619 45 46 A26361-K405-Z111-2-7619 Troubleshooting and tips Troubleshooting and tips Reinstallation of the hard disk If your PC is equipped with a CD-ROM drive you can use the Recovery CD to restore the entire hard disk to the as-supplied status (reinstallation). If your PC is not equipped with a CD-ROM drive you can use the backup diskettes that you created after the installation of Windows 95 to restore the hard disk to the as-supplied status. Tips If you have too many applications running at once, you may experience problems due to a lack of system resources. If this happens, you should close applications you do not require or call the applications in a different order. If your PC was supplied with a TDS diskette and instructions (leaflet), you can obtain information and help if a fault occurs on your PC. However, you must have installed a modem and this must be operational. The audio controller on the system board is set by default to the interrupt IRQ10.

However, some games require interrupt IRQ5. If you change the interrupt assignments, please refer to the interrupt table in the chapter "Technical data". Restoring the hard disk contents from CD Insert the recovery boot diskette for your PC into the floppy disk drive and switch on the system unit. Insert the recovery CD into the CD-ROM drive. Follow the instructions on the screen.

i Detailed PC knowledge is required for customized partitioning. Remove the recovery boot diskette from the floppy disk drive when you are prompted to do so and restart the PC. Restoring the hard disk contents using the backup diskettes Insert the first backup disk and follow the instructions on the screen. Install the drivers and utilities in the C:\PROGSDISKS directory using your driver and utility disks. A26361-K405-Z111-2-7619 47 48 A26361-K405-Z111-2-7619

System expansions Assembling the system unit System expansions This chapter describes all the activities required to modify your PC hardware (e. g. installing boards or drives). Memory and processor upgrading and replacement of the lithium battery are described in the Technical Manual for the system board. 2 4 1 3 1 3 Opening the system unit Release the upper part of the housing on both sides, taking care to apply pressure in the direction shown by the arrow (1) Lift up the top cover slightly at the rear edge (2). Push the casing part forcefully (with a jolt) in the direction of the arrow (3). In doing so, do not press down on the front part of the system unit. Lift off the top cover completely in the direction of the arrow (4). ! Pay attention to the information provided in chapter "Important notes". Switch the PC off. Pull out the power plug! If any cables attached to the system unit are obstructing you, pull out the connectors on the system unit.

Place the system unit in a convenient working position. Read the supplied documentation before installing new drives and/or boards. Refer to the Technical Manual for the system board before making any extensions on the system board. Assembling the system unit 2 1 Position the top cover on the system unit in the direction of the arrow (1). Push the top cover in the direction of the arrow (2) until it engages. Return the system unit to its original position. If you have disconnected cables, reconnect them now. A26361-K405-Z111-2-7619 49 50 A26361-K405-Z111-2-7619 Changing boards System expansions System expansions Changing boards Changing boards Installing a board Remove the top cover (see "Opening the system unit"). ! Pay attention to the relevant safety notes for boards provided in the chapter "Important notes". The system board may already include other boards when shipped.

2 Slot board The system board has two slots for further boards. You can install either an ISA board or a PCI board in the upper slot. 1 1 2 3 4 Press down on the locking lever in the direction of the arrow (1). Remove the rear slot cover plate from the slot (2). ! Do not dispose of the rear slot cover plate.

If you remove the board and do not replace it, you must refit the rear slot cover plate for cooling, protection against fire and in order to comply with EMC regulations Take your board out of its packaging. Make the appropriate settings for the board. 1 = Slot for ISA or PCI board 2 = Slot for ISA board 3 = Slot for PCI board (upper one), slot for ISA board (lower one) 4 = Slot for ISA board Boards in slots with the number 3 use the same mounting location. a Push the board horizontally into the slot. Ensure that the end of the board without angle bracket fits into the corresponding guide of the system unit.

Ensure also that the point of the angle bracket slots into guide (a). Press the board into the slot so that it engages and the locking lever locks in the board. A26361-K405-Z111-2-7619 51 52 A26361-K405-Z111-2-7619 Changing boards System expansions System expansions Changing boards If necessary, connect any cables to the board. Install the top cover (see "Assembling the system unit"). Removing a board Remove the top cover (see "Opening the system unit"). Remove cables attached to the board. i If you have installed or removed a PCI board, please check in the BIOS Setup the settings for the relevant PCI slot.

Further information is provided in the documentation for the PCI board. 2 1 Press down on the locking lever in the direction of the arrow (1).



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Remove the board from the system unit (2).

Place the board into an appropriate packaging. ! For cooling, protection against fire and in order to comply with EMC regulations, you must refit the rear slot cover plate Push the board horizontally into the slot until it engages. Install the top cover (see "Assembling the system unit"). A26361-K405-Z111-2-7619 53 54 A26361-K405-Z111-2-7619 Changing boards System expansions System expansions Changing boards Installing and removing drives The system unit has space for three drives. You should always connect IDE hard disk drives to the IDE interface 1, and slower IDE drives (e. g. CD-ROM drives) to the IDE interface 2 (see also the Technical Manual for the system board). You must remove the slot board and the drive carrier before you can remove the floppy disk drive and the hard disk drive. This is not necessary when removing the CD-ROM drive. Fasten the screw (1).

1 3 2 1 Remove the screw (1). Pull the drive carrier out of the device (2) and put it on ist side (3). Remove the two screws (1). Removing the drive carrier 1 2 Unplug the connectors from the floppy disk drive and from the hard disk drive. Loosen the screw (1).

@@@ Plug the data and the power supply connectors into the hard disk drive. 2 2 1 1 Push the hard disk drive into the drive carrier (1) and fasten it with the four screws (2). Place the drive carrier into the system unit at a slanting angle (1) and tilt it downward. Fasten the screw (2).

A26361-K405-Z111-2-7619 59 60 A26361-K405-Z111-2-7619 Changing boards System expansions System expansions Replacing the CD-ROM drive Replacing the CD-ROM drive 1 Remove the top cover (see "Opening the system unit").

2 Loosen the screw (1). Push the floppy disk drive forward (2). Fasten the screw (1). 2 Pull the data and power supply connectors from the CD-ROM drive. 1 Fasten the drive carrier with the two screws. Install the top cover (see "Assembling the system unit"). Remove the two screws (1) and pull the CD-ROM drive out of the system unit (2). Take the new CD-ROM drive out of its packaging. Settings in BIOS Setup If you have installed or removed a hard disk drive, you must make the appropriate setting for Hard Disk. If you have installed or removed a floppy disk drive, you must make the appropriate setting for Diskette.

If you have installed or removed a PCI board, please check in the BIOS Setup the settings for the relevant PCI slot. Further information is provided in the documentation for the PCI board. 61 62 A26361-K405-Z111-2-7619 A26361-K405-Z111-2-7619 Replacing the CD-ROM drive System expansions System expansions Memory, processor, lithium battery Memory, processor, lithium battery 1 Memory and processor upgrading and replacement of the lithium battery are described in the Technical Manual for the system board. Below the necessary steps are described to enable you to work on the system board. 2 Remove the top cover (see "Opening the system unit"). Upgrading main memory Push the new CD-ROM drive into the system unit (1) and fasten it with the two screws (2). Remove the slot board and the drive carrier (see "Changing boards"). You do not need to pull the cables from the drive carrier. You have free access to the memory banks. Upgrade the memory as it is described in the Technical Manual for the system board.

Install the drive carrier and the slot board (see "Changing boards"). Install the top cover (see "Assembling the system unit"). Upgrading video memory, second-level cache, lithium battery or processor Plug the data and power supply connectors into the CD-ROM drive. Install the top cover (see "Assembling the system unit"). If a board is installed above the system board, you may have to remove it (see "Changing boards").

You have free access to the locations. Upgrade the video memory, the second-level cache, the lithium battery or the processor as it is described in the Technical Manual for the system board. If you have removed a board, install it now (see "Changing boards"). Install the top cover (see "Assembling the system unit"). A26361-K405-Z111-2-7619 63 64 A26361-K405-Z111-2-7619 Technical data Environmental conditions Environment class 3K2 Environment class 3M2 Temperature: Operating (3K2) Transport (2K2) 100 V - 240 V 50 Hz - 60 Hz 100 - 240 V / 0.

4 A -0.2 A 100 V - 240 V / 2 A -1 A 100 V - 240 V / 5 A -2.5 A 100 V - 240 V / 3 A -1.5 A I EN 60950 / VDE 0805 Surface-average sound pressure level LpA: Dimensions Width: Depth: Height: Weight: 418 mm 412 mm 95.5 mm (including feet) appr. 7 kg (68.7 N) in basic configuration DIN IEC 721 part 3-3 DIN IEC 721 part 3-2 15 °C

32° C -25 °C 60° C System unit Technical data System unit Electrical data Rated voltage range: (selectable) Frequency: Rated current in basic configuration: System unit without monitor socket Max. rated current: System unit without monitor socket Condensation in operating must be avoided. Clearance required to ensure adequate ventilation: min. 200 mm left-hand side min. 200 mm rear Noise level Sound power level LWAd (ISO 9296): Sound pressure level at operator position LpAm (ISO 9296): < 35 dB < 32 dB < 4.7 B System unit with monitor socket Monitor socket Protection class: Regulations complied with: A26361-K405-Z111-2-7619 65 66 A26361-K405-Z111-2-7619 Interrupt table Technical data Technical data DMA channels DMA channel assigned as shipped Interrupt table Interrupt table Address Keyboard COM2 dispatcher or Serial port COM2 Serial port COM1 Fax/modem Floppy disk drive controller Parallel port LPT1 RTC Framegrabber or Wavetable Audio controller Joystick: 0200-0207 base address: 0220-022F 0230-0233 MPU 401: 0330-0331 synthesizer: 0338-038B MPEG1 Mouse controller Numeric processor IDE controller 1 IDE controller 2 IRQ11 IRQ12 IRQ13 IRQ14 IRQ15 IRQ10/free IRQ3, IRQ4, IRQ5, IRQ7, IRQ10 IRQ5, IRQ7, IRQ9 02F8 03F8 03E8 Assigned IRQ Possible IRQ IRQ1 IRQ4 IRQ5/free IRQ6 IRQ7 IRQ8 IRQ9/free IRQ10 to IRQ15 IRQ3, IRQ4, IRQ7 Floppy disk controller Free/ECP mode DMA channel cascading DMA2 DMA3 DMA4 „Assigned IRQ" = interrupts assigned as shipped „Possible IRQ" = these interrupts can be used for your particular application i Please note that an interrupt cannot be used by two applications at the same time.

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