

# ESPRIMO Mobiles V5535/V5555



## Are there ...

... any technical questions or problems?

Please contact:

- our Hotline/Help Desk (refer to the enclosed Help Desk List or go to: "[www.pc-ap.fujitsu.com](http://www.pc-ap.fujitsu.com)")
- your sales partner
- your sales office

Additional information is contained in the Help Desk list and the "Warranty" manual. The "Warranty" manual can be found on the "Drivers & Utilities" CD/DVD.

Latest information about our products, useful tips, updates etc. are available from our website: "[www.pc-ap.fujitsu.com](http://www.pc-ap.fujitsu.com)"



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# **ESPRIMO Mobiles V5535/V5555**

## **EasyGuide**

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# Your ESPRIMO Mobile

...offers you innovative technology and ergonomic design. This makes your notebook a reliable, convenient mobile PC.

Your notebook 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 Windows operating system is already pre-installed and optimally configured. That means you're ready to start when you switch on your notebook for the first time.

Your notebook features the very latest technology so that you get the best performance from your computing experience. Depending on which model you own, you have access to:

- up to 4 GB of main memory (RAM)
- a CD/DVD burner-DVD for watching DVD movies and writing your own CDs and DVDs
- several USB ports which provide easy expansion with webcams, game pads, printers and more
- an internal modem for connecting to the Internet (optional)
- an ExpressCard slot for operating an ExpressCard/34 or ExpressCard/54
- a SIM card slot that can be used to operate a SIM card (depending on model)
- an onboard sound card and two stereo speakers for your listening pleasure. You can even connect a microphone and external speakers for even better performance.

With the user-friendly *BIOS-Setup* you can control the hardware of your notebook and protect your system better against unauthorised access by using the powerful password features.

This operating manual describes how to get your notebook up and running and how to use it.

## Notational conventions

|  |  |
|--|--|
|  | Pay particular attention to text marked with this symbol. Failure to observe this warning will endanger your life, will damage the device or lead to loss of data. The warranty will be invalidated if you cause defects in the device through failure to take notice of this warning  |
|  | indicates important information that is required to use the device properly.   |
|  | indicates an activity that must be performed in the order shown  |
|  | indicates a result   |
| <b>This style</b>  | flags data entered using the keyboard in a program dialog or command line, e.g. your password ( <b>Name123</b> ) or a command to launch a program ( <b>start.exe</b> )   |
| This style   | refers to information displayed by a program on the screen, e.g.:<br>Installation is completed   |
| <i>This style</i>  | is for <ul style="list-style-type: none"> <li>terms and texts in a software user interface, e.g.: Click <i>Save</i>.</li> <li>names of programs or files, e.g. <i>Windows</i> or <i>setup.exe</i>.</li> </ul>  |
| "This style"   | is for <ul style="list-style-type: none"> <li>cross-references to another section, e.g. "Safety information"</li> <li>Cross-references to an external source, e.g. a web address: For more information, go to <a href="http://www.pc-ap.fujitsu.com">www.pc-ap.fujitsu.com</a></li> <li>indicates names of CDs and DVDs as well as names and titles of other materials, e.g.: "CD/DVD Drivers &amp; Utilities" or "Safety" manual</li> </ul> |
|  | refers to a key on the keyboard, e.g.:    |
| <b>This style</b>  | flags concepts and text that are emphasised or highlighted, e.g.: <b>Do not switch off device</b>  |

# Important notes

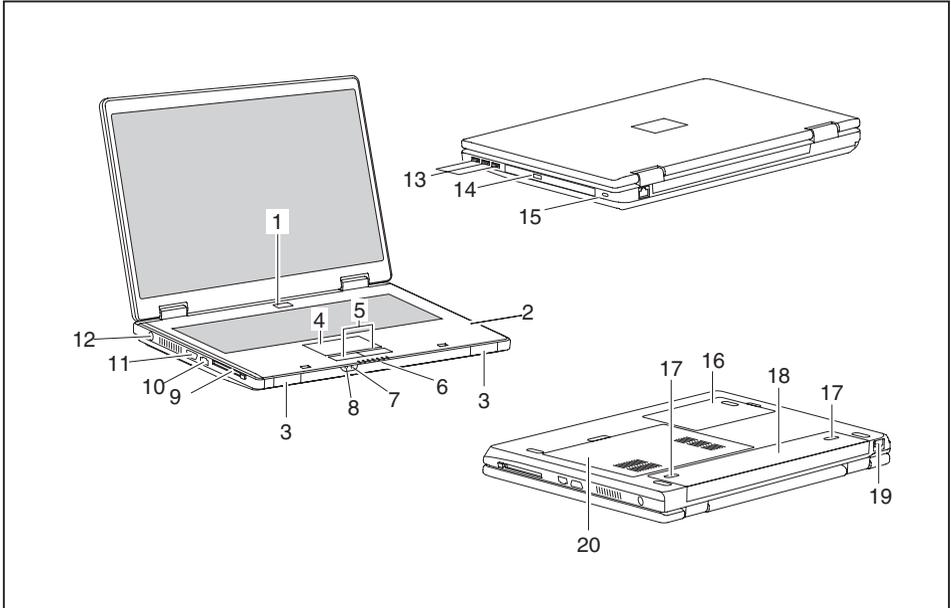


Take note of the safety hints provided in the "Safety" manual, in the "Professional Notebook" operating manual and in this manual.

# Ports and operating elements

This chapter presents the individual hardware components. This will provide you with an overview of the ports and operating elements on the notebook.

Please familiarise yourself with these components before you start to work with your notebook.



1 = ON/OFF switch

2 = Built-in microphone

3 = Loudspeaker

4 = Touchpad

5 = Touchpad buttons

6 = Status indicators

7 = Microphone port

8 = Headphones port/Line Out

9 = PC Card/ExpressCard slot

10 = LAN port

11 = Monitor port

12 = DC input jack (DC IN)

13 = USB ports

14 = Optical drive

15 = Kensington Lock

16 = Hard disk

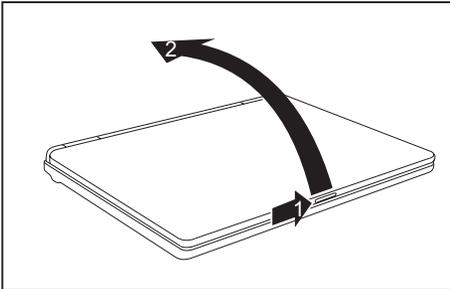
17 = Battery release latch

18 = Battery

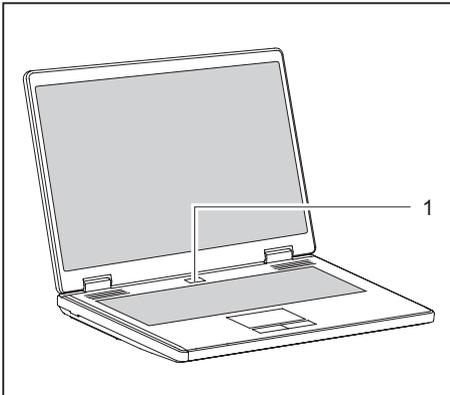
19 = Modem port

20 = Memory modules cover

## Switching on the notebook



- ▶ Slide the release button in direction of the arrow (1) and open the LCD screen (2).



- ▶ Press the ON/OFF switch (1) to switch the notebook on.
- ↳ The power-on indicator is lit.



### Windows XP

You can configure the power button with *Start - (Settings) - Control Panel - Performance and Maintenance - Power Options - Advanced*.

### Windows Vista

You can configure the power button with *Start - (Settings) - Control Panel - Mobile PC - Power Options*.

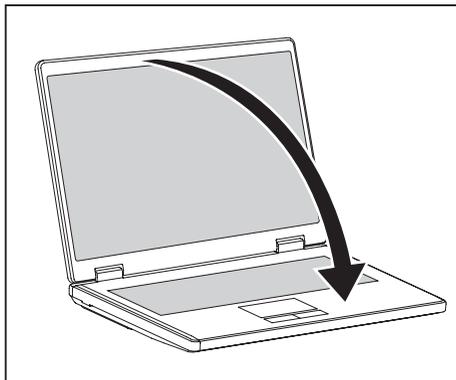
If you have assigned a password, you must enter this when requested to do so, in order to start the operating system. Further information can be found in the "Professional Notebook" operating manual, section entitled "Security functions".

## Switching off the Notebook

- ▶ Close all applications and shut down your operating system (please see operating system manual).



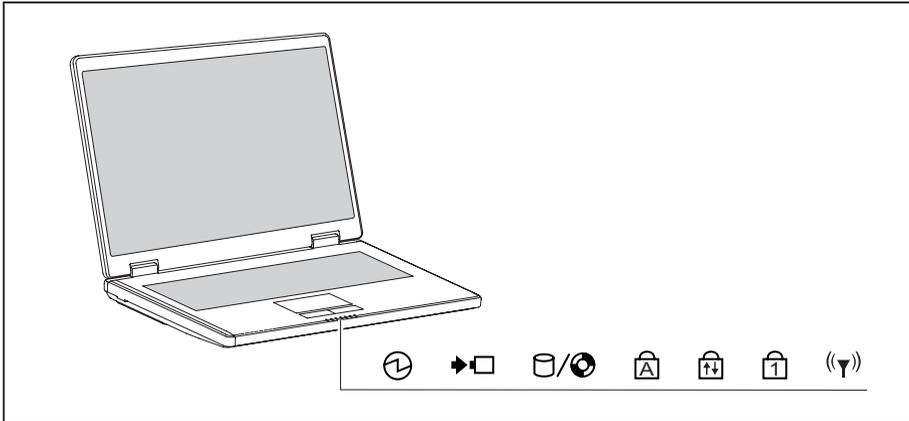
If the notebook cannot be shut down properly, press and hold the ON/OFF button for approximately four seconds. The notebook will switch off. Any unsaved data may be lost.



- ▶ Close the LCD screen so that it locks into place.

## Status indicators

The status indicators provide information about the status of the power supply, the drives and the keyboard functions.



Power indicator



Battery charging indicator



Drive indicator



Radio components indicator



Caps Lock indicator



Scroll Lock indicator



Num Lock indicator

The meanings of the symbols are as follows:



### Power-on indicator – mains operation

- Indicator lights up green: the notebook is being powered from the mains.
- Indicator flashes green: the notebook is in standby mode.



### Power-on indicator – battery operation

- Indicator lights up green: the notebook is being powered from the battery.
- Indicator flashes green: the notebook is in standby mode.
- The indicator lights up orange: the battery is nearly empty.
- Indicator flashes orange: the notebook is in standby mode and the battery is empty.
- The indicator flashes yellow: the notebook is in standby mode and the battery is almost empty.
- The indicator lights up red: the battery is flat.



### Battery charging indicator

Indicator lights up: the battery is charging.



### Drive indicator

Indicator lights up: one of the drives (e.g. hard disk, CD/DVD) is being accessed.



### Caps Lock indicator

Indicator lights up: the Caps Lock key has been pressed.

All the characters you type appear in upper case. In the case of overlay keys, the character printed on the upper left of the key appears when that key is pressed.



### Scroll Lock indicator

Indicator lights up: the key combination **Fn** + **Scroll Lock** has been pressed.

The effect this key has varies from programme to programme.



### Num Lock indicator

Indicator lights up: the key combination **Fn** + **Num** 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.



### Radio components indicator

Indicator is illuminated: The key combination **Fn** + **F1** has been pressed. One or more radio components are switched on.

## Key combinations

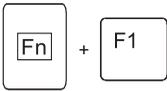
The key combinations described below apply when using Microsoft Windows operating systems. Some of the following key combinations may not function in other operating systems and with some device drivers.

Key combinations are entered 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.



The key combination **Ctrl** + **Alt Gr** or **Ctrl** + **Alt** can be used on external keyboards that do not feature a **Fn** key.

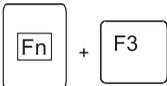


### Switching the radio components on/off

Use this key combination to start *WirelessSelector*. The radio components that have been activated in *BIOS Setup* can be switched on and off individually.

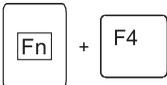


The key combination **Fn** + **F1** can only be used if the *WirelessSelector* software is installed on your device.



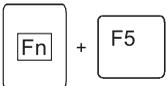
### Switch loudspeakers ON/OFF

This key combination switches your notebook's loudspeakers off and on.



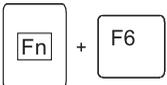
### Decrease volume

This key combination reduces the volume of the integrated loudspeakers.



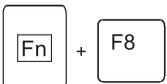
### Increases volume

This key combination increases the volume of the integrated loudspeakers.



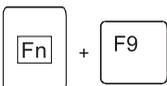
### Switch touchpad ON/OFF

This key combination switches your notebook's touchpad off and on.



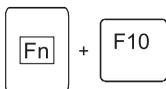
### Decrease screen brightness

This key combination decreases the brightness of the screen.



### Increase screen brightness

This key combination increases the brightness of the screen.

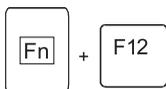


### Toggle output screen

Use this key combination to select which screen(s) is/are used for display if an external monitor is connected.

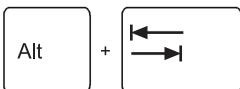
You can opt to use:

- just the notebook's LCD screen
- just the external monitor
- both the LCD screen and the external monitor



### Sleep mode

Use this key combination to activate the currently configured energy saving mode.



### Switching between open applications

Use this key combination to switch between several open applications.



### Perform warm reboot

This key combination restarts the notebook. First, press and hold both the **Ctrl** and **Alt** keys, then press the **Del** key. First, the Task Manager will be displayed. You must then press all three keys again to reboot.



### Back tab

This key combination moves the cursor back to the previous tabular stop.



Key combinations using the Windows keys are detailed in the manual for your operating system.

## Removing and installing the battery



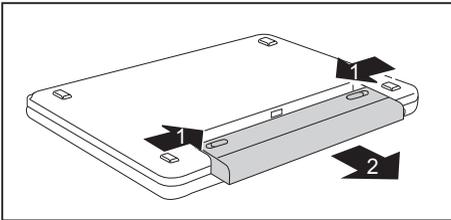
Only use batteries approved by Fujitsu PC Asia Pacific Pte Ltd. for your notebook.

Never use force when inserting or removing a battery.

Make sure that no foreign bodies get into the battery connections.

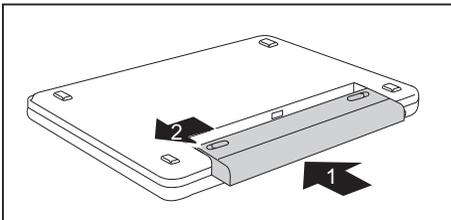
### Removing the battery

- ▶ Switch the notebook off and pull the power plug out of the mains socket.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn your notebook over and place it on a stable, sturdy, flat surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.



- ▶ Slide the battery locks in the direction of the arrow (1) as far as possible and hold in place.
- ▶ Pull the battery out of the casing in the direction of the arrow (2).

### Installing the battery



- ▶ Push the battery into the battery compartment until it engages (1).

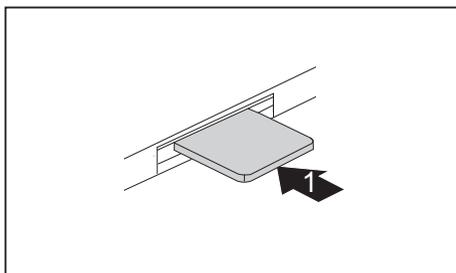
## SIM card (depending on your computer)



Follow the instructions supplied by the provider of the SIM card.

### Inserting the SIM card

- ▶ Switch the notebook off and pull the power plug out of the mains socket.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ▶ Remove the battery (see Section ["Removing the battery", Page 11](#)).

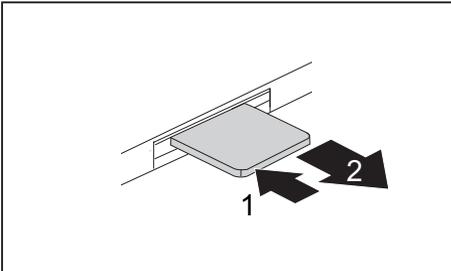


- ▶ Insert the SIM card into the slot as shown on the underside of the notebook (1). Make sure you hear the SIM card click into place.

- ▶ Reinstall the battery (see ["Installing the battery", Page 11](#)).
- ▶ Turn the notebook the right way up and place it on a flat surface.
- ▶ Reconnect the cables that you disconnected previously.

## Removing a SIM card

- ▶ 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 stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ▶ Remove the battery (see Section ["Removing the battery", Page 11](#)).



- ▶ Push the SIM card inwards slightly to eject it from the slot (1).
- ▶ Pull the SIM card out of the slot in the direction of the arrow (2).

- ▶ Reinstall the battery (see ["Installing the battery", Page 11](#)).
- ▶ Turn the notebook the right way up and place it on a flat surface.
- ▶ Reconnect the cables that you disconnected previously.

## Radio components: Wireless LAN/ Bluetooth/UMTS (optional)



The installation of a wireless LAN module not approved by Fujitsu PC Asia Pacific Pte Ltd. voids the permits issued for this device (see chapter ["Technical data", Page 22](#)).

Depending on the device variant, wireless LAN, Bluetooth and/or UMTS may be integrated in your notebook. On delivery, WLAN components are switched on, Bluetooth components off.

### Switching the radio components on and off

Start the *WirelessSelector* using the key combination **[Fn] + [F1]**.

The *WirelessSelector* enables you to switch the radio components activated in *BIOS Setup* on and off individually.

- ▶ Press the key combination **[Fn] + [F1]** to start the *WirelessSelector*.
- ↳ The radio component indicator will be illuminated when one or more radio components is switched on.



If you switch off the radio components, the Bluetooth module, UMTS and wireless LAN transmission unit (antenna) will also be switched off.

You can enable or disable the radio components individually.

*BIOS Setup* allows you to specify which radio components can be switched on and off using the key combination **[Fn] + [F1]**. Only those components that have been activated in *BIOS Setup* can be switched on and off using the key combination **[Fn] + [F1]**. Conversely, components that are deactivated in *BIOS setup* cannot be controlled using the key combination.

You can also activate and deactivate the radio components individually in the *BIOS Setup*.

You must have assigned the supervisor password in order for this function to be available.

Pay attention to the additional safety notes for devices with radio components provided in the "Safety" manual.

Details on using Wireless LAN can be found in the online help system included in the Wireless LAN software.

You can find more information on how to use Bluetooth on the CD you received with your Bluetooth software.

You can obtain more information on UMTS from your service provider.

# Removing and installing components during servicing



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.

## Notes on installing and removing boards and components

- 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 marked with the label shown.

When handling boards fitted with ESDs, you must always observe the following points:

- You must always discharge static build up (e.g. by touching a grounded object) before working.
- 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.

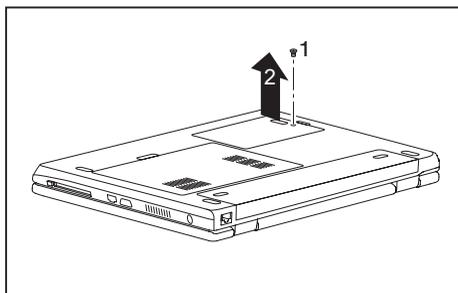
## Hard disk

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 CDs to your hard disk.

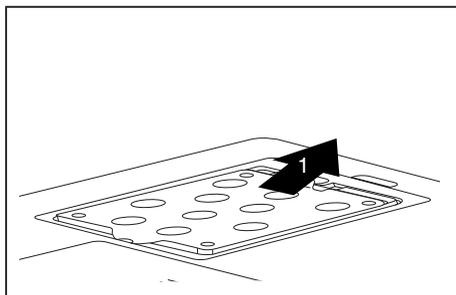
When the hard disk is accessed, the hard disk indicator lights up in the status indicator panel.

### Removing the hard disk

- ▶ Switch the notebook off and pull the power plug out of the mains socket.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn your notebook over and place it on a stable, sturdy, flat surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ▶ Remove the battery (see ["Removing the battery", Page 11](#)).

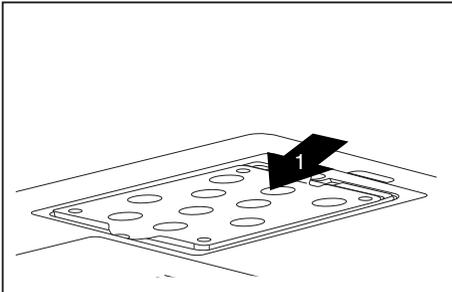


- ▶ Remove the screw (1).
- ▶ Lift off the hard disk cover (2).

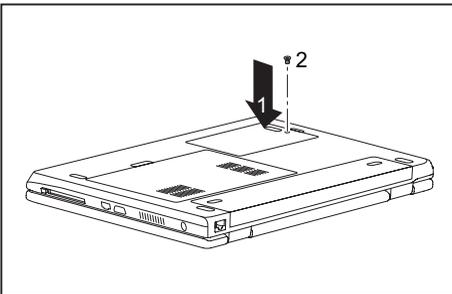


- ▶ Use the pulling aid to pull the hard disk out of the bay in the direction of the arrow (1).

## Installing the hard disk



- ▶ Insert the hard disk into the hard disk compartment in the direction of the arrow (1) .



- ▶ Place the hard disk cover over the opening (1).
- ▶ Tighten the screw (2).

- ▶ Install the battery again (see "[Installing the battery](#)", Page 11).
- ▶ Turn the notebook the right way up and place it on a flat surface.
- ▶ Reconnect the cables that you disconnected previously.

## Removing and installing memory modules



Your notebook supports dual-channel DDR2 technology.

The dual-channel DDR2 technology can only be used with two identical memory modules. When two different memory modules are installed, only "single-channel" mode is supported. This reduces the performance of your notebook.

With a memory configuration of 4 Gbytes, the visible and usable main memory may be reduced to 3 Gbytes (depending on notebook configuration).

If you are asked by the Hotline/Help Desk to remove and install the memory modules yourself, proceed as follows:



Pay attention to the relevant safety notes provided in the "Important notes" chapter.

The notebook must be switched off when installing/removing the memory modules, it must not be in Suspend mode.

Only use approved memory expansion modules in your notebook (see Section ["Technical data", Page 22](#)).

Never use force when installing or removing memory modules.

Make sure that foreign objects do not fall into the memory expansion compartment.

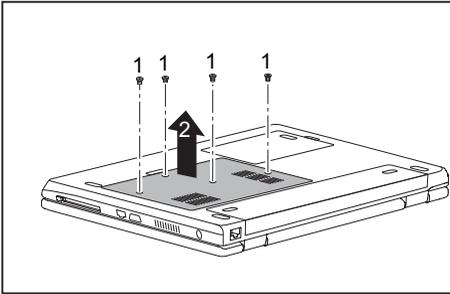


Individual components (e.g. the processor heat sink) can become very hot during operation. Therefore, we recommend that you wait one hour after switching off the notebook before removing or installing the memory modules. Otherwise, there is a risk of suffering burns!

As some non-ESD safe components are exposed, please observe the section ["Notes on installing and removing boards and components", Page 15](#).

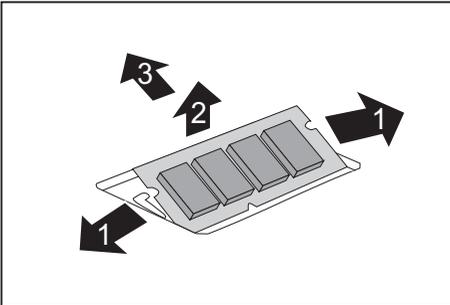
- ▶ Switch your notebook off and unplug the mains adapter from the mains outlet.
- ▶ Close the LCD screen so that it locks into place.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn your notebook over and place it on a stable, flat and clean surface. If necessary, lay an anti-slip cloth on this surface to prevent the notebook from being scratched.
- ▶ Remove the battery (see ["Removing the battery", Page 11](#)).

## Removing the cover



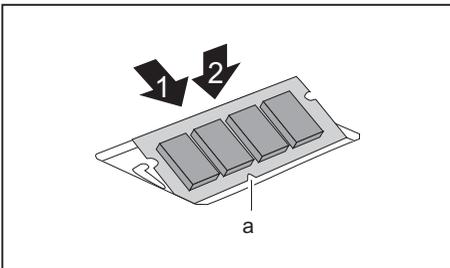
- ▶ Remove the screws (1).
- ▶ Pull the cover off the notebook (2).

## Removing memory modules



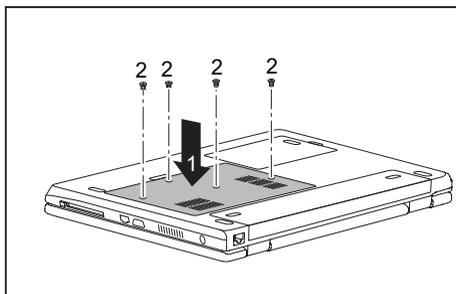
- ▶ Carefully push the two mounting clips outwards (1).
- ↳ The memory module snaps upwards (2).
- ▶ Pull the memory module out of its slot in the direction of the arrow (3).

## Installing a memory module



- ▶ Insert the memory module with the contacts and the recess (a) facing the slot (1).
- ▶ Carefully push the memory module downwards until you feel it click into place (2).

## Attaching the cover



- ▶ Place the cover in the correct mounting position (1).
- ▶ Secure the cover with the screws (2).

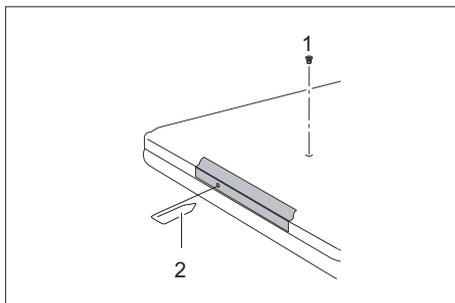
- ▶ Reinstall the battery (see ["Installing the battery", Page 11](#)).
- ▶ Turn the notebook the right way up and place it on a flat surface.
- ▶ Reconnect the cables that you disconnected previously.

## Removing and installing the optical drive

If you are asked by the Hotline/Help Desk to remove and install the optical drive yourself, proceed as follows:

### Removing the optical drive

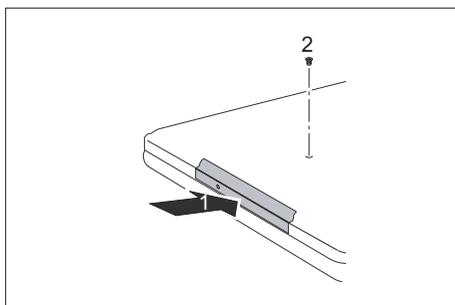
- ▶ Switch off your notebook and disconnect the power plug from the mains socket.
- ▶ Close the LCD screen.
- ▶ Disconnect all cables connected to the notebook.
- ▶ Turn your notebook over and place it on a flat surface.
- ▶ Remove the battery (see Chapter ["Removing the battery", Page 11](#)).



- ▶ Remove the screw (1).
- ▶ Press a metal pin or wire (e.g. paperclip) firmly into the opening (2).
- ↳ The drive tray will be ejected. You can now pull out the drive tray completely.

- ▶ Hold the drive tray firmly on both sides in the centre, and carefully pull the optical drive out of the notebook.
- ▶ Push in the drive tray until you feel it lock into place.

### Installing the optical drive



- ▶ Slide the drive into the notebook in the direction of the arrow (1).
- ▶ Tighten the screw (2).

- ▶ Reinstall the battery (see ["Installing the battery", Page 11](#)).
- ▶ Turn the notebook the right way up and place it on a flat surface.
- ▶ Reconnect the cables that you disconnected previously.

# Technical data

## Notebook

| Environmental conditions |                |
|--------------------------|----------------|
| Environmental class      | 3K2            |
| Temperature              |                |
| Operating (3K2)          | 5°C – 35°C     |
| Transportation (2K2)     | -15 °C – 60 °C |

| Dimensions                          |                            |
|-------------------------------------|----------------------------|
| Width x Depth x Height (front/back) | 360 mm x 260 mm x 22-39 mm |
| Weight (depending on configuration) | Approx. 2.8 kg             |



The data sheet for this notebook contains further technical data. The data sheet can be found on your notebook or on the Internet at ["www.pc-ap.fujitsu.com"](http://www.pc-ap.fujitsu.com) or on the "Drivers & Utilities" CD/DVD.

## Battery

|                | 4-cell rechargeable battery | 6-cell rechargeable battery |
|----------------|-----------------------------|-----------------------------|
| Rated voltage  | 14.8 V                      | 11.1 V                      |
| Rated capacity | depends on configuration    | depends on configuration    |



The operating time depends on the device equipment, the active applications and the energy saving settings.

## Mains adapters

### Mains adapter 65W

Use the mains adapter 65W for the following processors: M5XXX, T2XXX and T5XXX.

| Electrical data    |        |
|--------------------|--------|
| Rated voltage      | 20 V   |
| Max. rated current | 3.25 A |

## Mains adapter 90W

Use the mains adapter 90W for the following processor: T7XXX.

| Electrical data    |       |
|--------------------|-------|
| Rated voltage      | 20 V  |
| Max. rated current | 4.5 A |

An additional mains adapter and power cable can be ordered at any time.

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