

System Upgrades and Repairs LIFEBOOK U7413

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System Upgrades and Repairs



We recommend printing out the relevant sections of this chapter prior to installation as the device for installing/removing hardware components needs to be switched off.

The following illustrations may differ from your device, depending on its configuration and features.

If you have received any further documents with your device, you should read these through carefully.

Please note the following instructions before installing/removing system components:



- The device must be switched off when installing/removing components and it must not be in power-saving mode.
- Disconnect the mains plug before opening the device.
- Press on the power button for approx. 5-10 seconds in order to discharge the remaining power.
- Remove all externally connected cables.
- Take care not to pinch any cables when installing/removing components.
- Please ensure that the installed components that might heat up intensely during operation do not exceed the permitted operating temperature.

Please take note of the target audience addressed in these instructions. Damage to the device incurred as a result of unqualified methods used during repair work as well as the use of unsuitable spare parts or assemblies during the repair work or upgrades of the device may void your warranty claim.



During a system expansion or a hardware upgrade, it is possible that the BIOS must be updated. You can find more information in the technical information provided for your device.

Information on the installation and removal of components

These instructions provide information on disassembling the device in addition to upgrading or exchanging components. The steps in these instructions describe the removal of a component. Installation is carried out in the reverse order. Specifics are separately described after the removal.

Please pay attention to the locking mechanism (indentations and centring pins) when installing hardware components.

Note that some components on the mainboard may be very hot if the device was in use shortly before the case was removed.

Utmost care is required during installation and removal to avoid damaging components. Use a non-slip base.

Never use items with sharp edges (screwdrivers) to lever them out.

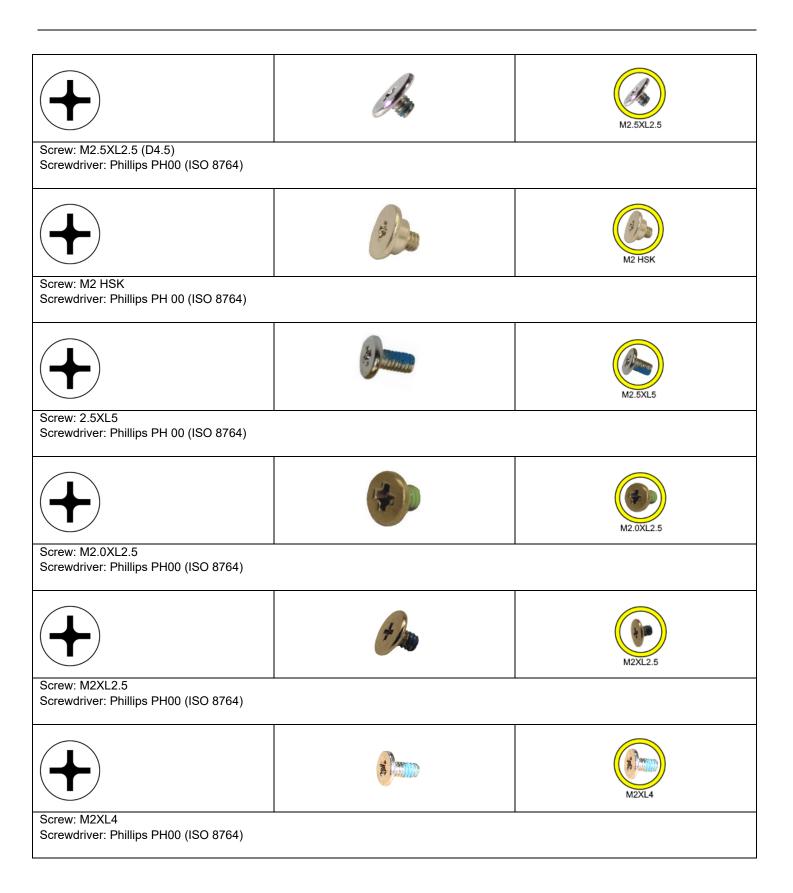
Parts with electrostatically sensitive components (Electrostatic Sensitive Devices (ESD)) are marked accordingly by a label.

When dealing with boards with ESDs, the following points must always be observed:



- Always ensure there is a static discharge (e.g. by touching a grounded object) prior to commencing with the work.
- The devices and tools being used must not be statically charged.
- Only touch the components along the edges or on the areas marked in green (contact points).
- Contacts and electronic components must not touch when handling components equipped with ESD protection.

Screws









Screw: M2.5XL4

Screwdriver: Phillips PH00 (ISO 8764)

Tools

Screwdriver: Phillips PH00 (ISO 8764) Plastic tool (from iFixit: Part # 922-5065) Plastic tool (from iFixit: Part # SKU: EU145335-1) Tweezers (from iFixit: Part # SKU: EU145060-3)



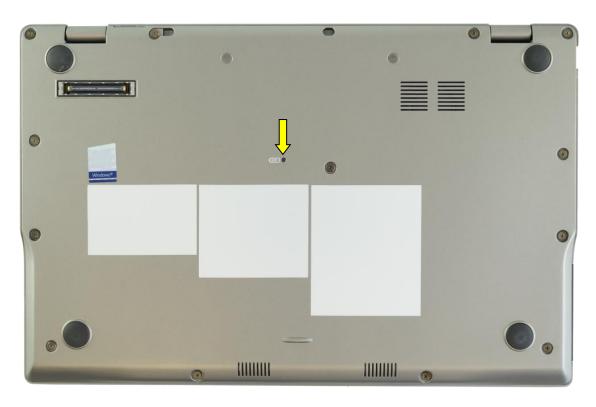
Switch off the battery

Required work steps:

- Close the notebook
- Remove cables and components

Required tools:

e.g. wire or pen



Press the battery reset button for 5 seconds.



► The battery LED will temporarily flash red, then the battery will be switched off.





Remove the SIM card cover

Required work steps:

- Close the notebook
- Remove cables and components

Required tools:

■ none



Open the SIM card cover (1).



Fully pull out the SIM card cover (2).



Remove the SIM card cover (3).





Insert the SIM card cover

Required work steps:

- Close the notebook
- Remove cables and components
- Remove the SIM card cover

Required tools:

■ none





Slide the SIM card cover bracket (1) into the SIM tray opening (2).



Close the SIM card cover (3).



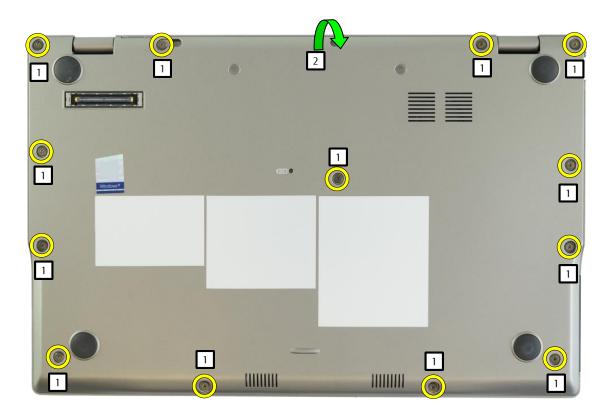
Remove the lower assy

Required work steps:

- Close the notebook
- Remove cables and components
- Switch off the battery

Required tools:

■ Screwdriver: Phillips PH00



- ▶ Undo the screws (1).
- Remove the lower assy (2).



Please note that the screws are firmly anchored to the lower assy and cannot be removed.



Remove the battery

Required work steps:

- Switch off the battery
- Remove the lower assy

Required tools:

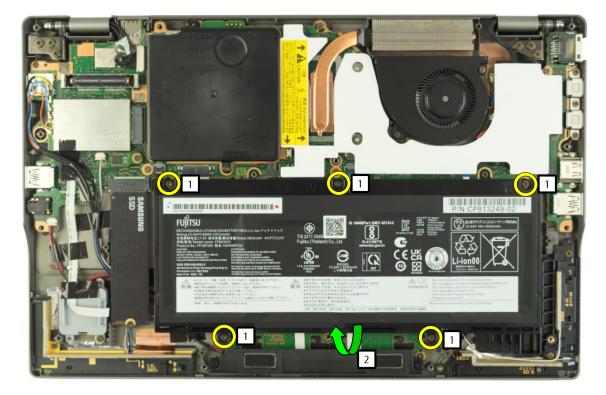
■ Screwdriver: Phillips PH00



The improper exchanging of the lithium battery can result in a danger of explosions!

The lithium battery may be replaced only by a battery recommended by the manufacturer.

Do not dispose of lithium batteries in the household waste. They must be disposed of in accordance with the local regulations, as hazardous waste.



- Undo the screws (1).
- Remove the battery (2).



Please note that the screws are firmly anchored to the battery and cannot be removed.

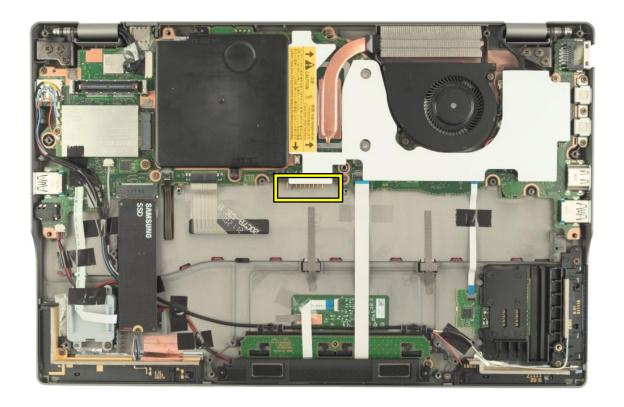


Insert the battery

Required work steps:

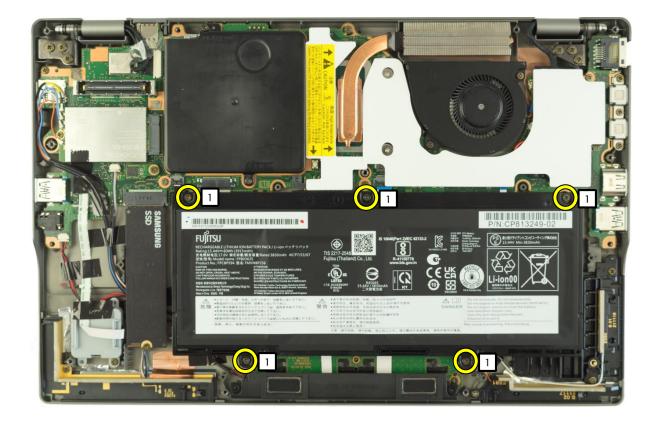
- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00





Slide the battery in the direction of the arrow in the connector.



► Tighten the screws (1).



Once the battery has been replaced, the AC adapter needs to be connected to the device so the battery is once again ready for use.



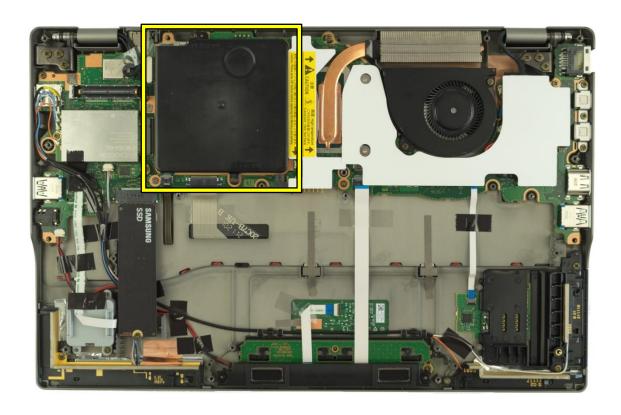
Remove the memory door

Required work steps:

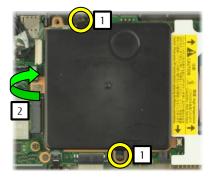
- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

■ Screwdriver: Phillips PH00



- Undo the screws (1)
- ► Remove the memory cover (2).





Please note that the screws are firmly anchored to the memory cover and cannot be removed.

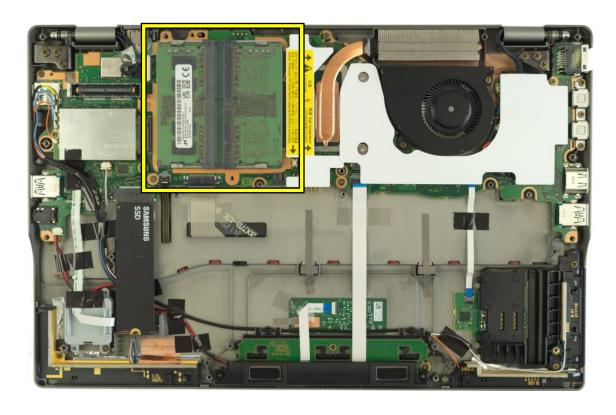


Insert the memory cover

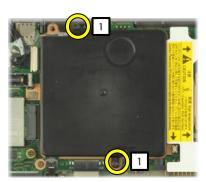
Required work steps:

- Switch off the batteryRemove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00



Tighten the screws (1).





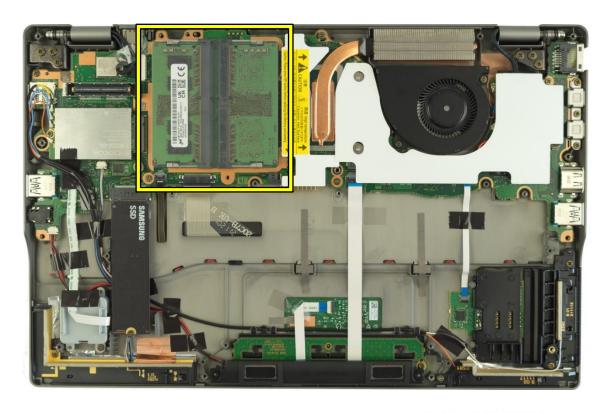
Remove the memory

Required work steps:

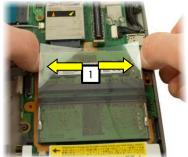
- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the memory door

Required tools:

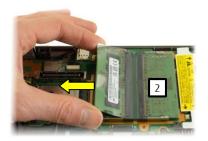
■ none



Lift the foil and press the catches in the direction of the arrow (1).



Remove the memory (2).





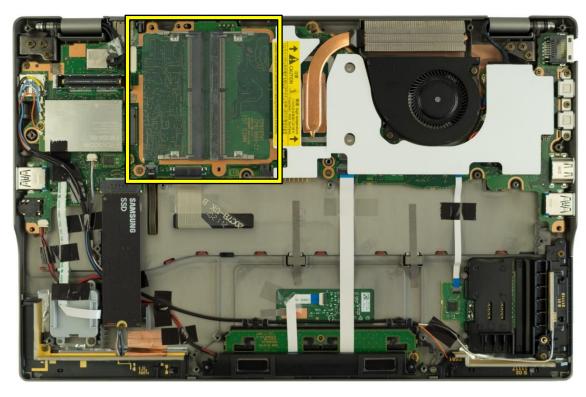
Insert the memory

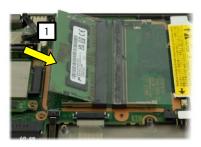
Required work steps:

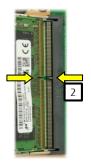
- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the memory door
- Remove the memory

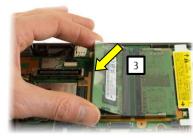
Required tools:

■ none









- ▶ Insert the memory into the socket (1).
- ▶ Due to mechanical coding, the module only fits into the socket (2) in one direction.
- Press the memory down until it clicks into, place (3).



The module is initiated after insertion and the scroll lock LED will flash.

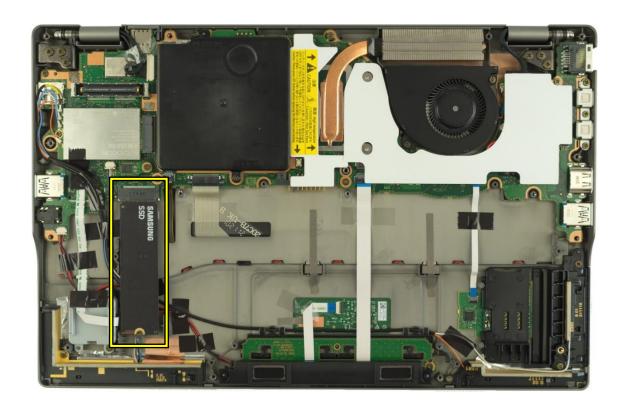


Remove the M.2 module

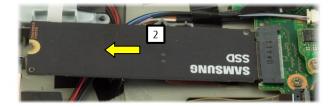
Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00







- Remove the screw (1).
- Remove the module (2).



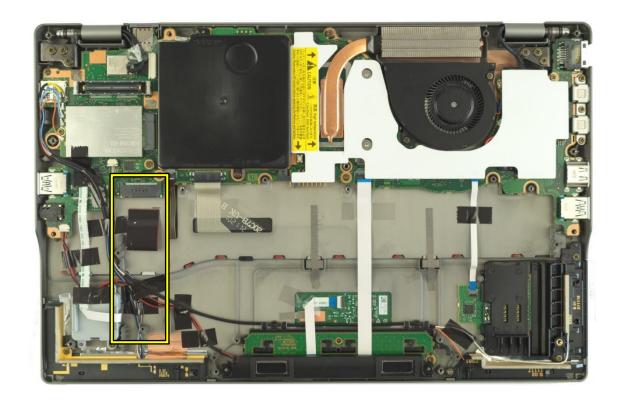
Insert the M.2 module

Required work steps:

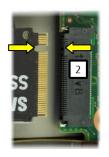
- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the M.2 module

Required tools:

■ Screwdriver: Phillips PH00









- ▶ Insert the module into the socket (1).
- ▶ Due to mechanical coding, the module only fits into the socket (2) in one direction.
- Tighten the screw (3).





Mandatory Support Bulletins



SB-M-10030

Minimum requirements to properly finalise hardware repairs on mobile systems

<u>SB-M-15007</u>

WIN8x & WIN10 - Spare product key for repaired devices





For any information about ESD, please refer to the web-based training course "<u>ESD in</u> electronics"

SB-M-22005
Creating a new Maintenance USB Stick FjAHDT.





SB-M-22009

Instructions for using the FjAHDT tool.

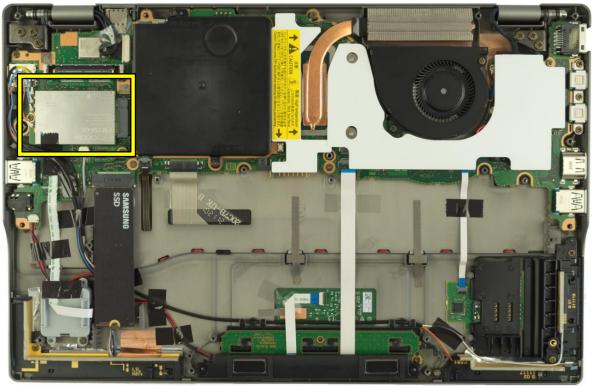
Remove the WWAN module

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery

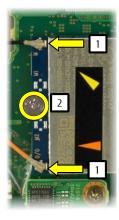
Required tools:

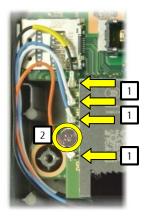
- Screwdriver: Phillips PH00
- Plastic tool

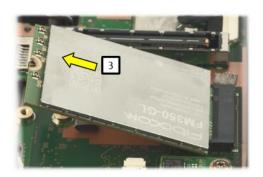


(Example picture for 4G WWAN)

(Example picture for 5G WWAN)







- Remove the cables (1). Remove the screw (2).
- Remove the module (3).

Antenna colour	4G	5G
yellow	MAIN	MAIN
orange	AUX	AUX or D/G
white		M1
blue		M2





Remove the WLAN module

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

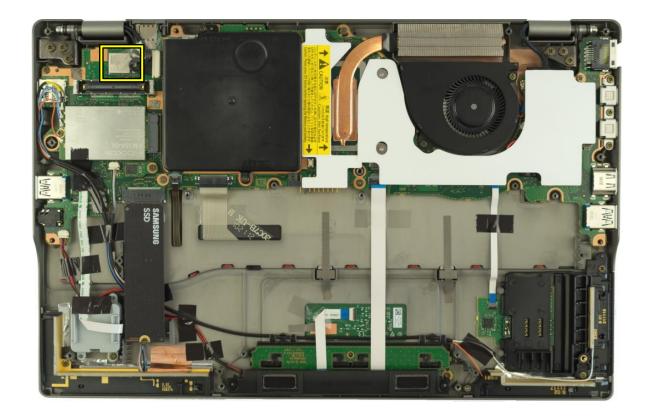
■ Plastic tool



With the LIFEBOOK U7413, the WLAN module is soldered onto the mainboard and can therefore not be replaced individually.

In case of repair in connection with the WLAN module, the mainboard must therefore be replaced.

->Remove the mainboard



Remove the antenna cables.



Antenna colour	Connector
gray	MAIN
black	AUX

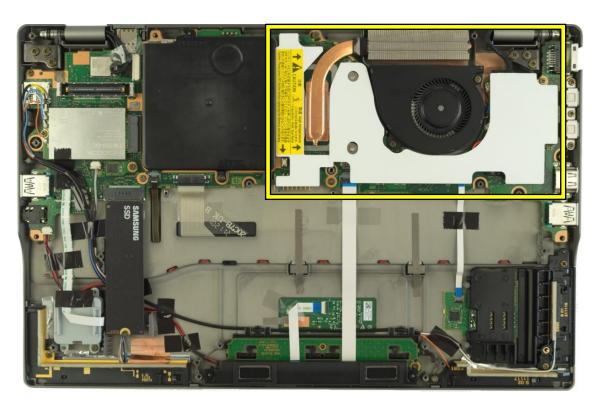


Remove the protective foil

Required work steps:

- Switch off the batteryRemove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00





Remove the foil (1).



The foil is glued.

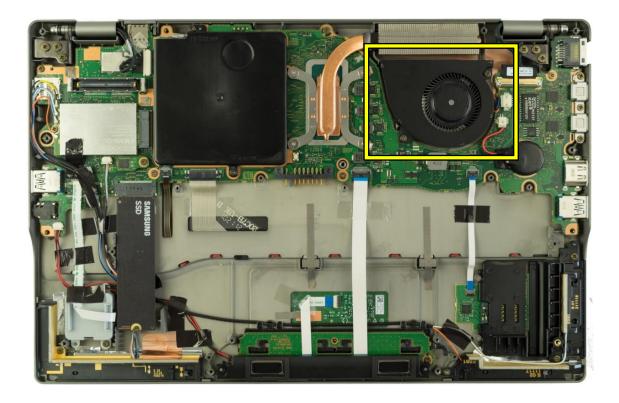


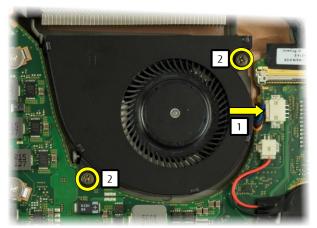
Remove the fan

Required work steps:

- Switch off the batteryRemove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00





- Remove the cable (1).
- Remove the screws (2).





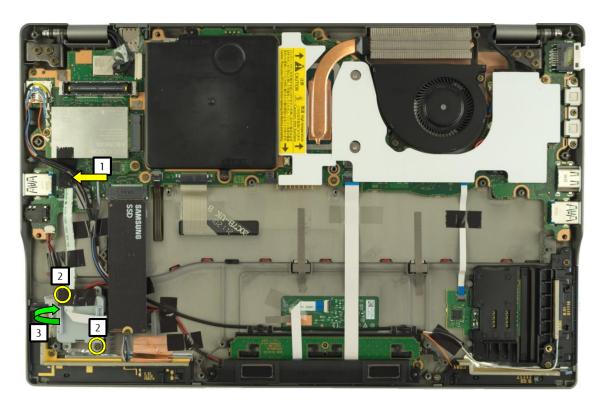
Remove the palm vein sensor

Required work steps:

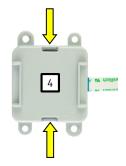
- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

■ Screwdriver: Phillips PH00



- Remove the cable (1).
- Remove the screws (2).
- ▶ Remove the palm vein bracket with the module (3).







- Disconnect the module from the palm vein bracket at the plastic latch (4).
- Remove the cable (5).



The LIFEBOOK may be equipped with a palm vein sensor or with a fingerprint sensor.



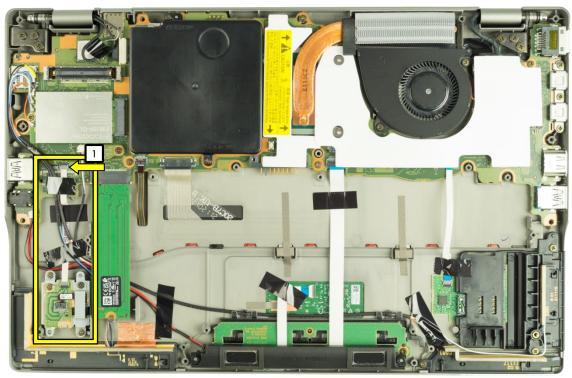
Remove the fingerprint sensor

Required work steps:

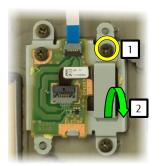
- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

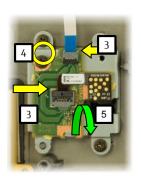
■ Screwdriver: Phillips PH00



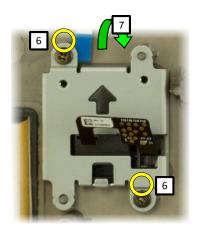
- ▶ Open the connector lock and remove the cable (1).
- Remove the screw (1).
- Remove the fingerprint bracket (2).



- ▶ Open the connector locks and remove the cables (3).
- Remove the screw (4).
- Remove the sub board (5).









- Remove the screws (6).
- Remove the fingerprint bracket (7).
- Remove the fingerprint sensor (8).



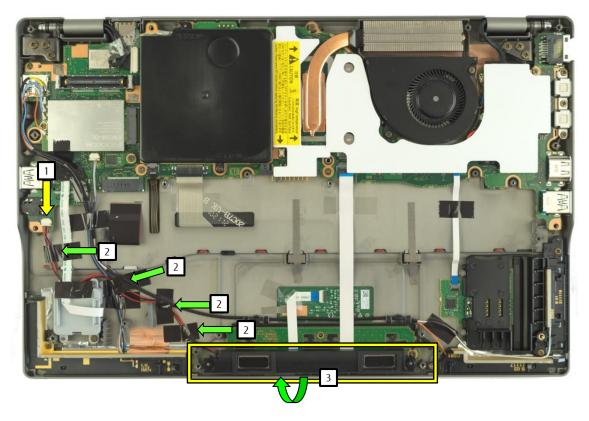
The LIFEBOOK may be equipped with a palm vein sensor or with a fingerprint sensor.

Remove the speaker

Required work steps:

- Switch off the batteryRemove the lower assy
- Remove the battery
- Remove the M.2 module

Required tools: Plastic tool



- Remove the cable (1).
- Remove the adhesive tape (2).
- Remove the speaker (3).

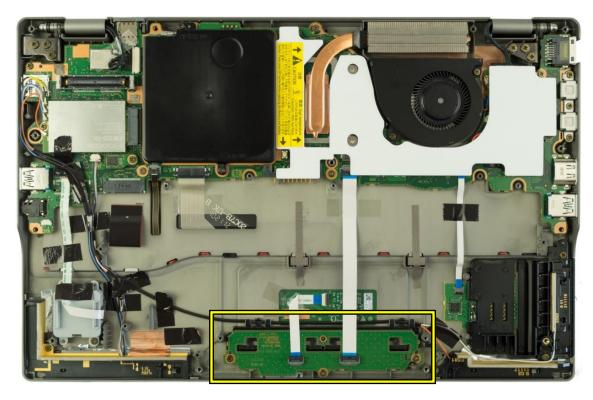
Remove the touchpad buttons sub board

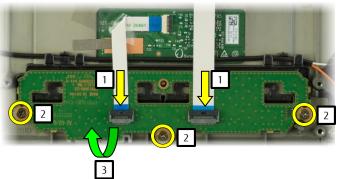
Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the M.2 module
- Remove the speaker

Required tools:

■ Screwdriver: Phillips PH00





- ▶ Open the connector locks and remove the cables (1).
- Remove the screws (2).
- Remove the sub board (3).





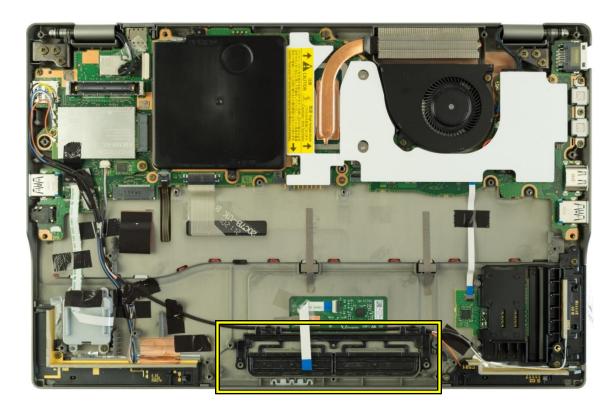
Remove the touchpad buttons

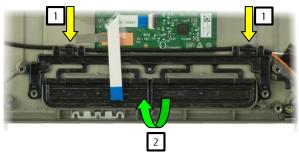
Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the M.2 module
- Remove the speaker
- Remove the touchpad buttons sub board

Required tools:

■ none





- Remove the cable from the guides (1).
- Remove the touchpad buttons (2).



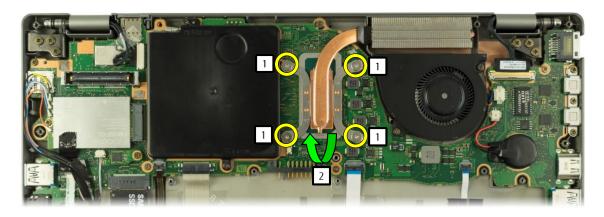
Remove the heatsink

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the protective foil

Required tools:

■ Screwdriver: Phillips PH00





- Remove the screws (1).
- Remove the heatsink (2).



If necessary, replace the thermal grease when exchanging the heatsink.



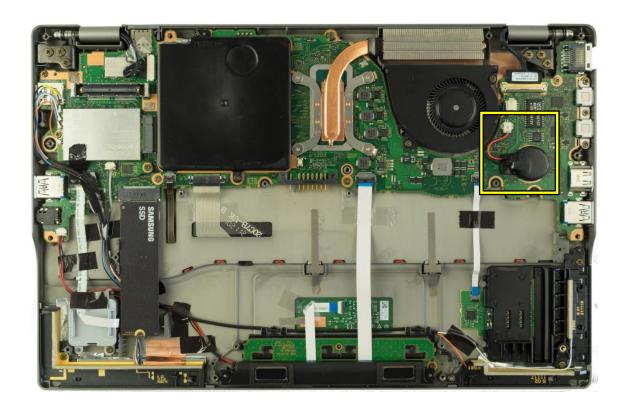
Remove the CMOS battery

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

■ none



- Remove the cable (1).
- Remove the battery (2).



The battery is glued to the mainboard.

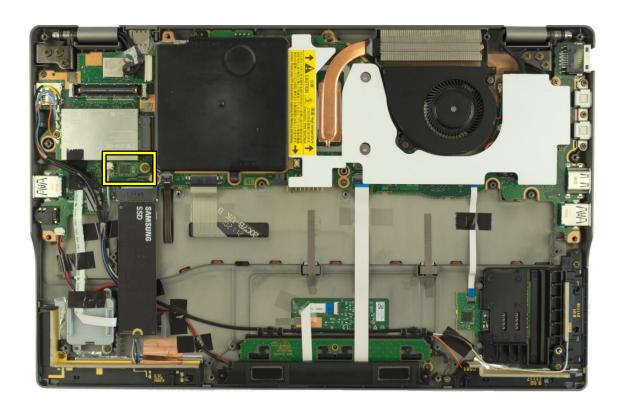


Remove the TPM module

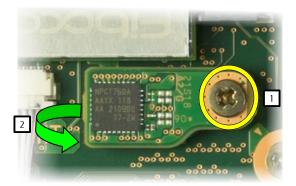
Required work steps:

- Switch off the batteryRemove the lower assy
- Remove the battery

Required tools:
Screwdriver: Phillips PH00



- Remove the screw (1).
- Remove the module (2).







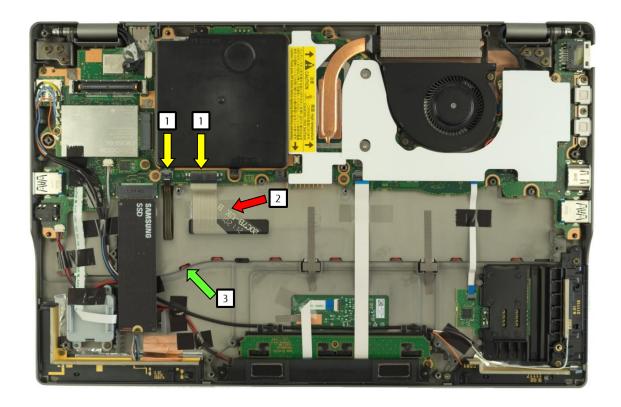
Remove the keyboard

Required work steps:

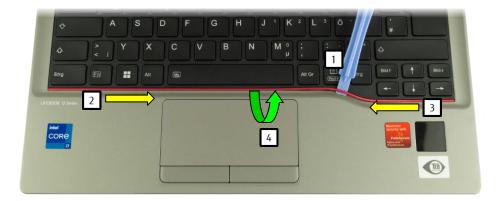
- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

■ Plastic tool



- ▶ Open the connector locks and remove the cables (1).
- Remove the adhesive tape from the cable (2).
- Press the latch in the direction of the arrow (3)
- Turn the device over.



- Lift the plastic strip (1).
- Carefully slide the strip in the direction of the arrow (2, 3).
- Remove the plastic strip (4).



- Slide the keyboard in the direction of the arrow (5).
- Remove the keyboard (6).

Insert the plastic strip of the keyboard

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the keyboard

Required tools:

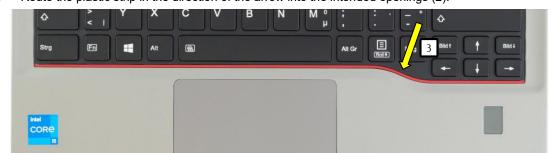
■ none







- ▶ Route the plastic strip in the direction of the arrow into the intended openings (1).
- ▶ Route the plastic strip in the direction of the arrow into the intended openings (2).



Push down on the plastic strip in the direction of the arrow until it locks into position (3).



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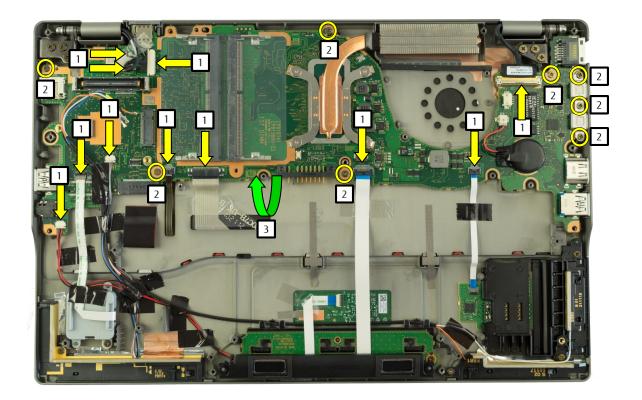
Remove the mainboard

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the memory door
- Remove the memory
- Remove the M.2 module
- Remove the WWAN module
- Remove the protective foil
- Remove the TPM module
- Remove the fan

Required tools:

- Screwdriver: Phillips PH00
- Plastic tool



- ▶ Open the connector locks and remove the cables (1).
- Remove the screws (2).
- Remove the mainboard (3).



Please observe the information in SB-M-22009.



Remove the LCD assy

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery

Required tools:

- Screwdriver: Phillips PH00
- Plastic tool





- Remove the screws (1).
- Remove the cables (2).
- Open the connector lock and remove the cable (3).



Lift the upper assy (4) until you can disconnect the LCD assy from the upper assy (5).



Remove the upper assy

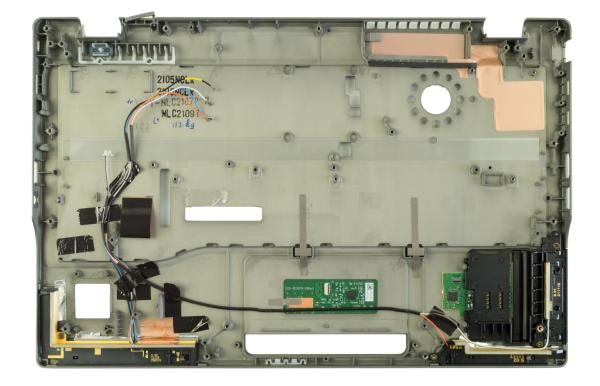
Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the memory door
- Remove the memory
- Remove the M.2 module
- Remove the WWAN module
- Remove the protective foil
- Remove the TPM module
- Remove the fan
- Remove the mainboard
- Remove the palm vein sensor
- Remove the fingerprint sensor
- Remove the speaker
- Remove the touchpad buttons sub board
- Remove the touchpad buttons
- Remove the LCD assy

Required tools:

■ Screwdriver: Phillips PH00

■ Plastic tool





The touchpad and the SmartCard reader as well as the antennas are part of the case's upper assy.



Remove the LCD hinge covers

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the LCD assy

Required tools:

■ none







Remove the hinge covers in the direction of the arrow.





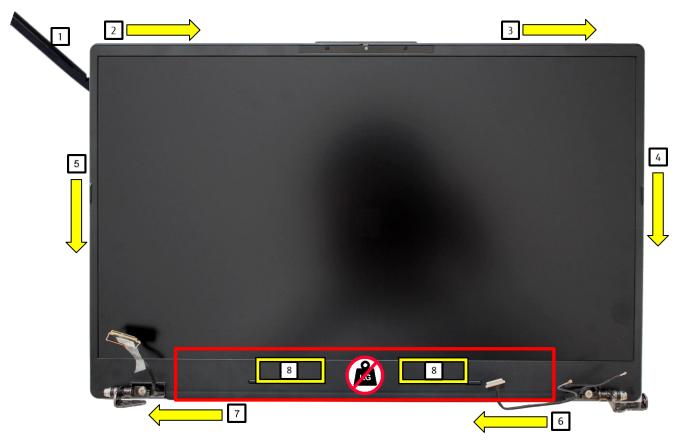
Remove the LCD front cover

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the LCD assy
- Remove the LCD hinge covers

Required tools:

■ Plastic tool



- ▶ Start at the top left side (1).
- Disconnect the screen covers along the frame in the direction of the arrows (2-7).



The LCD front cover is fixed to the LCD panel in the area of the markings (8) with double-sided adhesive tape. Be especially careful while disconnecting the screen covers to avoid damage.

It is essential to avoid tension and pressure on the LCF front cover in the area of the red frame.



Do not use a hot air gun to remove the LCD front cover.





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Remove the LCD hinges

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the LCD assy
- Remove the LCD hinge covers
- Remove the LCD front cover

Required tools:

■ Screwdriver: Phillips PH00



- Remove the screws (1, 2).
- Remove the hinges (3).







Remove the LCD panel

Required work steps:

- Switch off the battery
- Remove the lower assy
- Remove the battery
- Remove the LCD assy
- Remove the LCD hinge covers
- Remove the LCD front cover

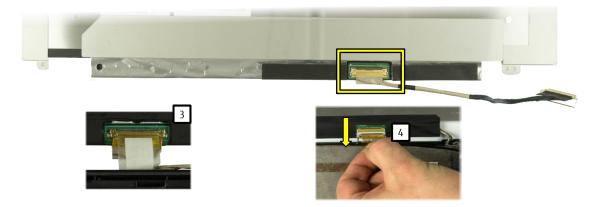
Required tools:

■ Screwdriver: Phillips PH00

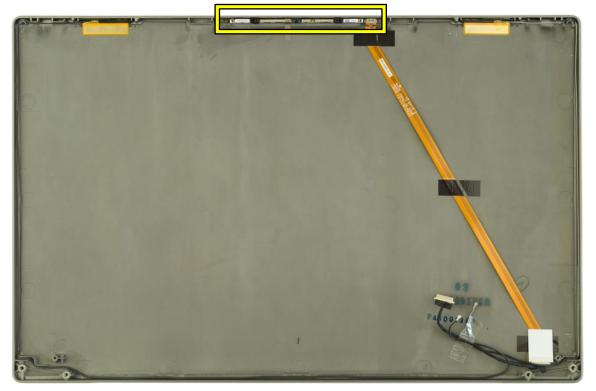


- ► Remove the screws (1).
- Remove the LCD panel (2).

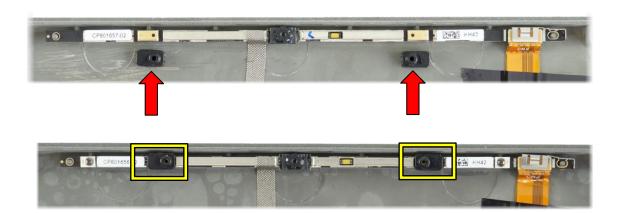




▶ Open the connector lock (3) and remove the cable in the direction of the arrow (4).



The camera with camera cable is part of the LCD back cover.



Pay attention to the microphone covers.

Spare parts LIFEBOOK U7413

Spare part	Internal designation	Replaceable parts		able	əle
		Customer	Service Partner	Upgradea	Repairable
Mechanical parts:					
- Rubber foot	Rubber foot	Х			
- SIM slot cover	Depending on the	х			
- Memory door	Cover main memory		х		
- Hinge cover	Cover hinge		х		
- Hinges	Hinges		х		
Case:					
- Lower assy	lower assy	Х			
- Upper assy	upper Assy		х		
- LCD back cover	LCD back cover assy		х		
- LCD front cover	LCD front cover		х		
Palm vein bracket	palm vein frame		х		
External AC adapter		Х			
Battery		Х			
Memory	Depending on the device configuration	х		х	
Storage media (SSD, M.2 modules)	Depending on the device configuration	х		х	
Cooling:					
- Heatsink			х		
- Fans			х		
Mainboard	Depending on the device configuration		х	х	х
WWAN module	Depending on the		х		
TPM module			х		
Palm vein sensor	Depending on the device configuration		х		
Fingerprint sensor	Depending on the		х		
LCD display	Depending on the		х	х	
Keyboard	Depending on the device configuration		х	х	
CMOS battery			х		
Speaker			х		
Touchpad buttons	Click assy		х		
Sub board (e.g. fingerprint, touchpad buttons, SmartCard,)	Depending on the device configuration		х		
Cables, flexprint cables, antennas	Depending on the device configuration		х		
	- Rubber foot - SIM slot cover - Memory door - Hinge cover - Hinges Case: - Lower assy - Upper assy - LCD back cover - LCD front cover Palm vein bracket External AC adapter Battery Memory Storage media (SSD, M.2 modules) Cooling: - Heatsink - Fans Mainboard WWAN module TPM module Palm vein sensor Fingerprint sensor LCD display Keyboard CMOS battery Speaker Touchpad buttons Sub board (e.g. fingerprint, touchpad buttons, SmartCard,)	Mechanical parts: - Rubber foot - SIM slot cover - Memory door - Hinge cover - Hinges Case: - Lower assy - Upper assy - LCD back cover - LCD front cover - Palm vein bracket - Battery Memory Storage media (SSD, M.2 modules) Cooling: - Heatsink - Fans Mainboard WWAN module Palm vein sensor LCD display Meyoration LCD display Keyboard CMOS battery Speaker Touchpad buttons Suid baard (e.g. fingerprint, touchpad buttons, SmartCard, smartcard, so and configuration device configuration device configuration device configuration device configuration College flavories each on the device configuration Clock assy Click assy Sub board (e.g. fingerprint, touchpad buttons, SmartCard, spartones) College flavories each on the device configuration device configuration device configuration Depending on the device configuration	Mechanical parts: - Rubber foot Rubber foot x - SIM slot cover Depending on the device configuration - Memory door Cover main memory - Hinge cover Cover hinge - Hinges Hinges Case: - Lower assy Iower assy x - Upper assy Upper Assy - LCD back cover LCD back cover assy - LCD front cover LCD front cover Palm vein bracket palm vein frame External AC adapter x Battery Depending on the device configuration Storage media (SSD, M.2 modules) Cooling: - Heatsink - Fans Mainboard Depending on the device configuration WWAN module Palm vein sensor Depending on the device configuration TPM module Palm vein sensor Depending on the device configuration Fingerprint sensor Depending on the device configuration COOligy: LCD display Depending on the device configuration Depending on the device configuration COOligy Depending on the device configuration COOligy Depending on the device configuration Depending on the device configuration COOLIGY Depending on the device configuration COMOS battery Speaker Touchpad buttons COOLIGY Depending on the device configuration Depending on the De	Mechanical parts: - Rubber foot Rubber foot x - SIM slot cover Depending on the device configuration - Memory door Cover hinge x - Hinge cover Cover hinge x - Hinges Hinges X - Lover assy lower assy x - Loper assy upper Assy x - LCD back cover LCD back cover assy x - LCD back cover LCD front cover x - LCD front co	Mechanical parts: - Rubber foot Rubber foot X - SIM slot cover Depending on the device configuration - Hinge cover Cover hinge X - Hinges Hinges X - Lower assy Iower assy X - Loper assy Uuper Assy X - LCD back cover LCD back cover X - LCD front cover LCD front cover X - Palm vein bracket Palm vein frame X External AC adapter X Battery X Memory Depending on the device configuration X - Fans Depending on the device configuration X - Fans Depending on the device configuration X - Fans Depending on the device configuration X - Fingerprint sensor Depending on the device configuration X - Fingerprint sensor Depending on the device configuration X - Fans Depending on the device configuration X - Fingerprint sensor Depending on the device configuration X - Fans Depending on the Depending on t

Webcam: To change it, replace the LCD pack cover
NLAN module: only by replacing the nainboard
Processor - only by replacing the mainboard
Graphics card: integrated in the main processor - only by replacing the mainboard

Additional information LIFEBOOK U7413

Spare part availability:

5 years after end of product life

Spare parts can be purchased through our authorised and certified service partners: Spare Parts - Fujitsu Technical Support pages from Fujitsu EMEA

The exploded diagram is available at the following link:

Exploded diagram - Fujitsu Technical Support pages from Fujitsu EMEA

Disposal information for recycling companies

These instructions are for the complete dismantling of a Fujitsu product. All materials can thereby be disposed of according to their provision in the EC directive 2012/19/EC (Waste Electrical and Electronic Equipment (WEEE)).

Product group: Mobile PC

Model: LIFEBOOK U7413

Designation	Remarks	Quantity
Printed circuit boards with a surface area greater than 10 cm ²	Mainboard AC adapter LCD SSD Memory Touch Pad	1 1 1 1 1-2 1
	Depending on system configuration: WWAN Port replicator Mouse	1 1 1
Batteries	Lithium-ion battery - Method of attachment: Detachable - How to remove: Open the cover - Special tool for removal: None	1
	Lithium button batteries CR2032 - Included on the mainboard	1
Components containing mercury	Not contained	
Liquid crystal displays (if applicable, together with the casing) with a surface area greater than 100 square centimetres and backlit displays with gas discharge lamps	> 100 cm2 display: Yes, for its display Gas discharge lamps: No	1
Cathode ray tubes	Not contained	
Capacitors containing PCBs (PolyChlorinated Biphenyls)	Not contained	
Electrolytic capacitors which contain critical substances (height > 25 mm; diameter: > 25 mm or proportional similar volumes).	Not contained	0
External electrical cables	AC adapter cable	1
Gas discharge lamps	Not contained	
Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)	Not contained	

Materials which must be disposed of in a sp		O
Designation	Remarks	Quantity
Plastics which contain brominated flame retardant	This product may contain plastic parts with Brominated flame retardants but to the best of	
retardant	our knowledge we provide this information to	
	sort them out. Plastic parts location can be	
	visually identified by their typical design	
	function for the product (also shown in the	
	disassembly manual).	
	Many of these parts (Greater than 25 grams)	
	are bromine free.	
	Regardless, these parts are labelled (usually moulded directly into the plastic) per ISO	
	11469.	
	A typical label would look like:	
	> Polymer Abbreviation - FR(xx) <	
	i.e. > PC+ABS FR(40) <	
	Flame retardant codes (FR(xx)) are given in	
	ISO 1043-4. Codes for some Brominated flame	
	retardants: 14 aliphatic/alicyclic Brominated compounds	
	15 aliphatic/alicyclic Brominated compounds in	
	combination with antimony compounds	
	16 aromatic Brominated compounds (excluding	
	Brominated diphenyl ether and biphenyls)	
	17 aromatic Brominated compounds (excluding	
	Brominated diphenyl ether and biphenyls) in	
	combination with antimony compounds	
	22 aliphatic/alicyclic chlorinated and Brominated compounds	
	42 Brominated organic phosphorus	
	compounds	
	- Plastics parts weighing less than 25 grams	
	may or may not contain brominated flame	
	retardants. These smaller plastics parts may to	
	be finding all over the PC system. It may	
	especially include: fan, speaker.	
Toner cartridges, liquid and paste-like, and	Not contained	
colour toner		
Asbestos waste and components which contain	Not contained	
asbestos		
Components which contain fire-proof ceramic	Not contained	
fibres	I NOT CONTAINED	
	No. of the second	
Components which contain radioactive	Not contained	
substances		
Mass storage device(s)		
Does the product contain mass storage	Mass storage devices are contained, and they	1
devices? If so, is any of them soldered to a	are not soldered to a circuit board.	
circuit board?		
Demuired tools	<u> </u>	
Required tools		
Philips Screwdriver		

Version history

Version	Date	Name	Change
1.0	25.04.2023	Ramona Beyer	Final version