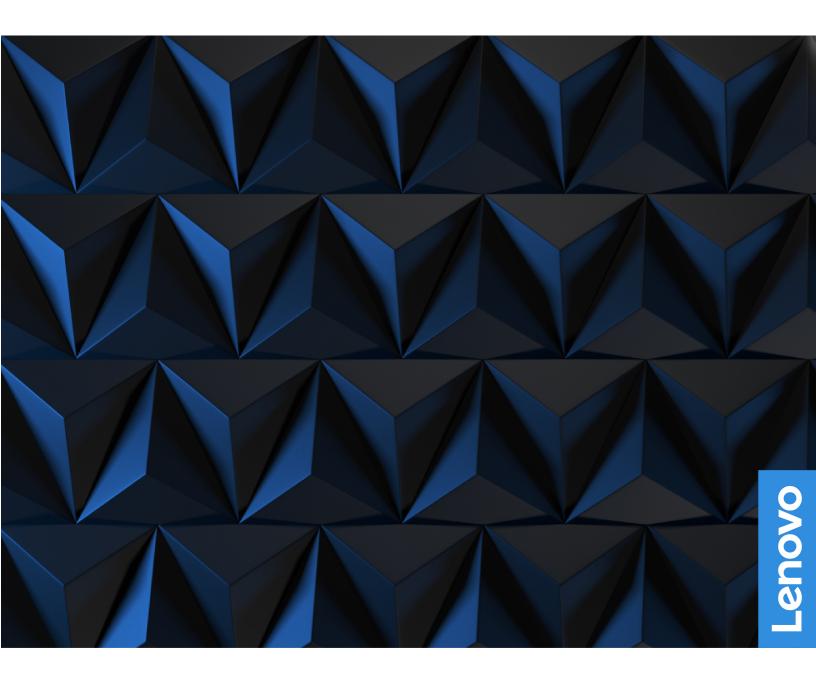


User Guide



Lenovo Legion Tower 7i (34L, 7)

Read this first

Before using this documentation and the product it supports, ensure that you read and understand the following:

- Safety and Warranty Guide
- Generic Safety and Compliance Notices
- Setup Guide

First Edition (August 2021)

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About this documentation

• This guide applies to the Lenovo product models listed below. Illustrations in this guide may look slightly different from your product model.

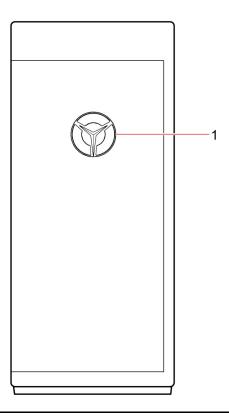
Model name	Machine types (MT)
Legion T7 34IAZ7	90S1, 90S2, 90S3, 90S4

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at https://pcsupport.lenovo.com/docs/generic_notices.
- Depending on the model, some optional accessories, features, and software programs might not be available on your computer.
- Depending on the version of the operating systems and programs, some user interface instructions might not be applicable to your computer.
- Documentation content is subject to change without notice. Lenovo makes constant improvements to the
 documentation of your computer, including this *User Guide*. To get the latest documentation, go to https://pcsupport.lenovo.com.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, some information in this documentation might become outdated. Refer to Microsoft resources for the latest information.

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Chapter 1. Meet your computer

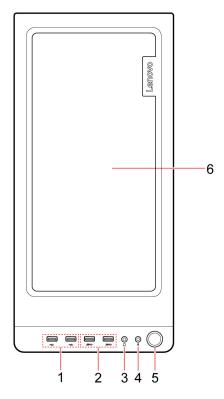
Front



1. Lenovo Legion logo

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Тор

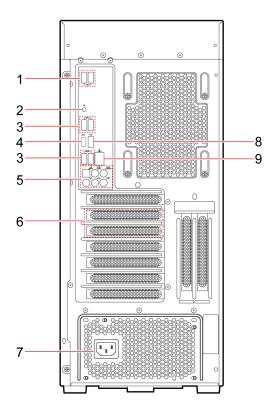


1. USB 2.0 connectors (2)	2. USB 3.2 connectors Gen 1 (2)
3. Headphone connector	4. Microphone connector
5. Power button	6. Dust Screen

Related topics

"USB specifications" on page 4.

Rear



1. USB 2.0 connectors (2)	2. Lighting switch
3. USB 3.2 connectors Gen 1 (4)	4. USB-C [®] (3.2 Gen 2 x 2) connector
5. Audio connectors (6)	6. PCI-Express card area
7. Power cord connector	8. USB 3.2 connector Gen 2
9. Ethernet connector (2.5G)	

Related topics

- "USB specifications" on page 4.
- "Work with Windows" on page 7.

Features and specifications

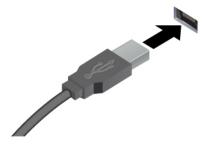
For detailed specifications of your computer, go to https://psref.lenovo.com.

Hardware	To view the hardware information of your computer, type device manager in the Windows search box and then press Enter.
Power supply	 500-watt automatic voltage-sensing power supply 850-watt automatic voltage-sensing power supply
Microprocessor	To view the microprocessor information of your computer, type system information in the Windows search box and then press Enter.
Memory	Double data rate 5 (DDR5) unbuffered dual in-line memory module (UDIMM)
Storage device	To view the storage drive capacity of your computer, type disk management in the Windows search box and then press Enter.
	Note: The storage drive capacity indicated by the system is less than the nominal capacity.
Expansion	 4 SATA3 Port 4 DDR5 UDIMM slots 3 M.2 solid-state drive slots 2 Storage drive bays (3.5-inch), 4 Storage drive bays (2.5-inch) PCI-Express slots: PCIEx16 (2), PCIEx1 (2)
Network features	BluetoothGigabit Ethernet LANWireless LAN

USB specifications

Note: Depending on the model, some USB connectors might not be available on your computer.

Connector name Description



- USB 2.0 connector
- SS USB 3.2 connector Gen 1
- 10 USB 3.2 connector Gen 2

Connect USB-compatible devices, such as a USB keyboard, USB mouse, USB storage device, or USB printer.



- SSC USB-C (3.2 Gen 1) connector
- ¹0 ← USB-C (3.2 Gen 2) connector
- 20 ← USB-C (3.2 Gen 2 x 2) connector
- Thunderbolt 3 connector (USB-C)
- Thunderbolt 4 connector (USB-C)

- Charge USB-C compatible devices with the output voltage and current of 5 V and 3 A.
- · Connect to an external display:
 - USB-C to VGA: 1900 x 1200 pixels, 60 Hz
 - USB-C to DP: 3840 x 2160 pixels, 60 Hz
- Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to https://www.lenovo.com/accessories.

Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and will be slower than the data rate listed below for each corresponding device.

USB device	Data rate (Gbit/s)
3.2 Gen 1 / 3.1 Gen 1	5
3.2 Gen 2 / 3.1 Gen 2	10
3.2 Gen 2 × 2	20
Thunderbolt 3 (USB-C)	40
Thunderbolt 4 (USB-C)	40

Operating environment

Temperature

- Operating: From 5°C (41°F) to 35°C (95°F)
- Storage or transportation:
 - For common desktop computers: From -40°C (-40°F) to 60°C (140°F)
 - For all-in-one desktop computers: From -20°C (-4°F) to 60°C (140°F)

Relative humidity

- Operating: 20%-80% (non-condensing)
- Storage: 10%–90% (non-condensing)

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

Chapter 2. Get started with your computer

Work with Windows

The following table contains Windows frequently used settings. You can learn the basics and start working with Windows right away.

To configure settings, type the corresponding keywords in the Windows search box and select the best match. Follow the on-screen instructions to customize settings.

Table 1. Basic settings

Functions	Descriptions	Search by keywords
Control Panel	View or change Windows settings, including hardware and software setup and configuration.	Control Panel
Connect to Wi-Fi networks	For models with a wireless LAN module, you can connect your computer to a Wi-Fi® network. Click the network icon in the Windows notification area, and then select a network for connection. Note: The wireless LAN module on your computer may support different standards. For some countries or regions, use of 802.11ax may be disabled according to local regulations.	Wi-Fi
Connect to wired networks	For models with an Ethernet (RJ-45) connector, you can use an Ethernet cable to connect your computer to a wired network.	_
Airplane mode	Airplane mode is a convenient setting to turn all wireless communications of your computer on and off. You may need to turn it on when boarding an airplane.	Airplane mode
Windows Updates	Microsoft periodically releases feature and security updates to the Windows operating system. Updates that are applicable to your Windows version are downloaded automatically when your computer is connected to the Internet. When updates are downloaded, you are prompted to restart the computer to install these updates. You can also manually check if there are available updates for the installed version of Windows. Attention: Only use Windows Update to download and install updates. Updates downloaded from other sources may include security risks.	Windows Updates

Windows help information

If the on-screen instructions cannot solve your problem, refer to the following to get the online Windows help information.

- Type Get Help or Tips in the Windows search box and then press Enter. When the app opens, type the problem description and select the matched result.
- Visit Microsoft support Web site: https://support.microsoft.com. Enter what you are looking for in the search box and get search results.

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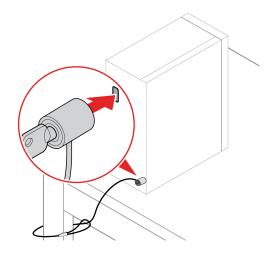
Chapter 3. Explore your computer

Lock the computer

Note: Lenovo makes no comments, judgments, or warranties about the function, quality, or performance of the locking device and security feature. You can purchase computer locks from Lenovo.

Kensington-style cable lock

Lock your computer to a desk, table, or other fixtures through a Kensington-style cable lock.



Lenovo Vantage



The preinstalled Lenovo Vantage is a customized one-stop solution to help you maintain your computer with automated updates and fixes, configure hardware settings, and get personalized support.

Access Lenovo Vantage

Type Lenovo Vantage in the search box and then press Enter.

To download the latest version of Lenovo Vantage, go to Microsoft Store and search by the app name.

Key features

Lenovo Vantage enables you to:

- Know the device status easily and customize device settings.
- Download and install UEFI BIOS, firmware and driver updates to keep your computer up-to-date.
- Monitor your computer health, and secure your computer against outside threats.
- Scan your computer hardware and diagnose hardware problems.
- Look up warranty status (online).
- Access User Guide and helpful articles.

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Notes:

- The available features vary depending on the computer model.
- Lenovo Vantage makes periodic updates of the features to keep improving your experience with your computer. The description of features might be different from that on your actual user interface.

Set the power plan

For ENERGY STAR® compliant computers, the following power plan takes effect when your computers have been idle for a specified duration:

- turn off the display: After 10 minutes
- put the computer to sleep: After 25 minutes

To awaken the computer from Sleep mode, press any key on your keyboard.

To change or customize a power plan:

- 1. Type power plan in the Windows search box and then press Enter.
- 2. Customize a power plan of your preference.

Transfer data

Quickly share your files using the built-in Bluetooth technology among devices with the same features. You also can install a disc or media card to transfer data.

Connect to a Bluetooth-enabled device (for selected models)

You can connect all types of Bluetooth-enabled devices to your computer, such as a keyboard, a mouse, a smartphone, or speakers. To ensure that the connection is successful, place the devices 10 meters (33 feet), at most, from the computer.



- 1. Click the action center icon in the Windows notification area. Enable the Bluetooth feature.
- 2. Click the bluetooth options to add a bluetooth device, and then follow the on-screen instructions.

Purchase accessories

Lenovo has a number of hardware accessories and upgrades to help expand the capabilities of your computer. Options include memory modules, storage devices, network cards, power adapters, keyboards, mice, and more.

To shop at Lenovo, go to https://pcsupport.lenovo.com/warrantyupgrade.

Chapter 4. CRU replacement

Customer Replaceable Units (CRUs) are parts that can be upgraded or replaced by the customer. Lenovo computers contain the following types of CRUs:

- Self-service CRUs: Refer to parts that can be installed or replaced easily by customer themselves or by trained service technicians at an additional cost.
- Optional-service CRUs: Refer to parts that can be installed or replaced by customers with a greater skill
 level. Trained service technicians can also provide service to install or replace the parts under the type of
 warranty designated for the customer's machine.

If you intend on installing the CRU, Lenovo will ship the CRU to you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. You might be required to return the defective part that is replaced by the CRU. When return is required: (1) return instructions, a prepaid shipping label, and a container will be included with the replacement CRU; and (2) you might be charged for the replacement CRU if Lenovo does not receive the defective CRU within thirty (30) days of your receipt of the replacement CRU. For full details, see the Lenovo Limited Warranty documentation at:

https://www.lenovo.com/warranty/llw_02

CRU list

The following is the CRU list of your computer.

Self-service CRUs

- Computer cover
- Front bezel
- · Memory module
- 3.5-inch storage drive
- Storage drive bracket converter
- Storage drive tray
- Storage drive rubber
- M.2 solid-state drive
- PCI-Express card
- PCI-Express card holder
- VGA holder kit
- Optical drive *
- Power cord
- Keyboard *
- Mouse *

Optional-service CRUs

- Coin-cell battery
- Heatsink and fan assembly

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^{*} for selected models

- · Power supply assembly
- Water cooling assembly

Note: Replacement of any parts not listed above, including the built-in rechargeable battery, must be done by a Lenovo-authorized repair facility or technician. Go to https://support.lenovo.com/partnerlocation for more information.

Remove or replace a CRU

This section provides instructions on how to remove or replace a CRU.

Power cord

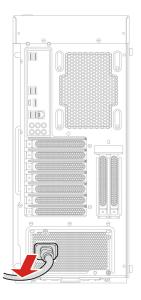
Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

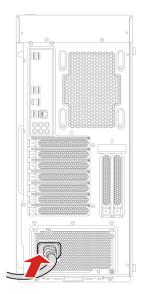
Note: Do not remove the power cord when the computer is connected to ac power. Otherwise, there might be a risk of short circuits.

Replacement procedure

- 1. Turn off the computer and remove all connected peripheral devices and cables.
- 2. Disconnect the power cord from the electrical outlet.
- 3. Disconnect the power cord from the computer.



4. Connect the new power cord to the computer.



5. Reconnect all disconnected cables to the computer.

Left computer cover

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



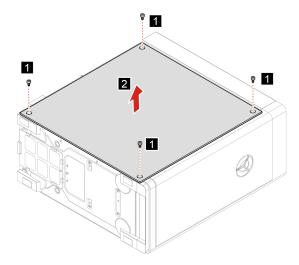
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Replacement procedure

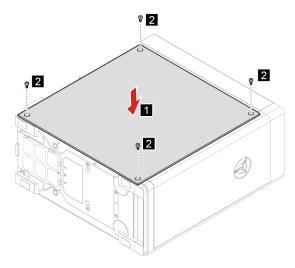
- 1. Turn off the computer and remove all connected devices and cables.
- 2. Hold the sides of the computer and gently lay it down so that the computer cover is facing up.

Note: The side cover is made of glass. Handle with care.

3. Remove the screws and slide the computer cover out of the chassis.



4. Install the new computer cover and secure the cover with the screws.



5. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

Right computer cover

Prerequisite

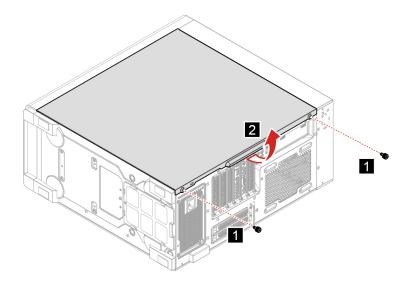
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



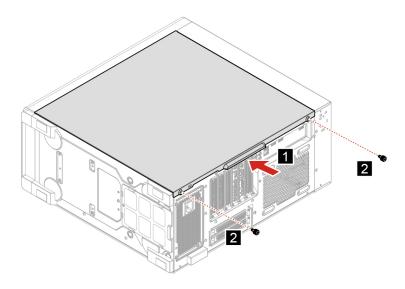
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Replacement procedure

- 1. Turn off the computer and remove all connected devices and cables.
- 2. Place a soft, clean towel or cloth on the desk or surface. Hold the sides of your computer and gently lay it down so that the screen is against the surface and the computer cover is facing up.
- 3. Remove the screws to remove the computer cover.



4. Install the computer cover and secure it with screws.



5. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

Front bezel

Prerequisite

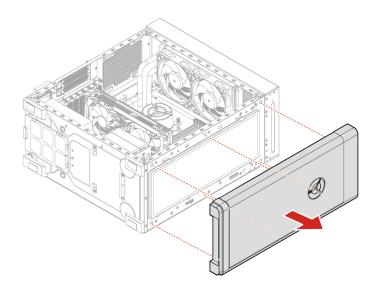
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



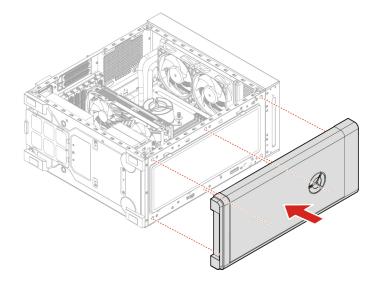
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Replacement procedure

- 1. Turn off the computer and remove all connected devices and cables.
- 2. Remove the power cord. See "Power cord" on page 14.
- 3. Remove the left computer cover. See "Left computer cover" on page 15.
- 4. Disconnect the top USB and audio assembly cable from the system board.
- 5. Remove the front bezel.



6. Install the front bezel.



- 7. Connect the top USB and audio assembly cable to the system board.
- 8. Reinstall all removed parts.
- 9. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

3.5-inch storage drive

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

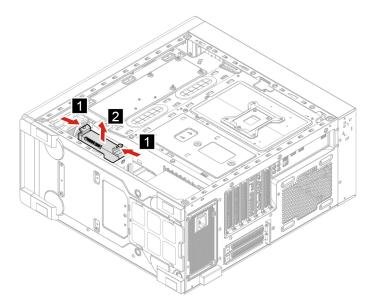
Attention: The internal storage drive is sensitive. Inappropriate handling might cause damage and permanent loss of data. When handling the internal storage drive, observe the following guidelines:

- Replace the internal storage drive only for upgrade or repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- Do not touch the contact edge of the internal storage drive. Otherwise, the internal storage drive might get damaged.
- Do not apply pressure to the internal storage drive.
- Do not make the internal storage drive subject to physical shocks or vibration. Put the internal storage drive on a soft material, such as cloth, to absorb physical shocks.

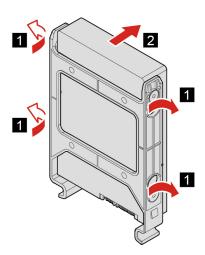
Replacement procedure

- 1. Remove the power cord. See "Power cord" on page 14.
- 2. Remove the left computer cover. See "Left computer cover" on page 15.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Disconnect the signal cable and the power cable from the storage drive.

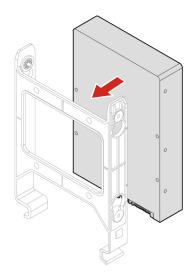
5. Remove the storage drive and the bracket.



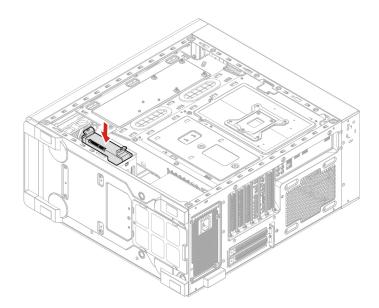
6. Remove the storage drive from the bracket.



7. Install the storage drive into the bracket.



8. Install the storage drive and the bracket.



- 9. Connect the signal cable and the power cable to the new storage drive.
- 10. Reinstall all removed parts.
- 11. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

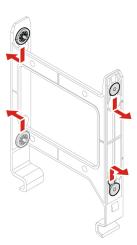
Storage drive rubber

Prerequisite

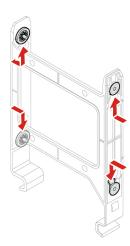
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Replacement procedure

- 1. Remove the power cord. See "Power cord" on page 14.
- 2. Remove the right computer cover. See "Right computer cover" on page 17.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Remove the 3.5-inch storage drive, if any. See "3.5-inch storage drive" on page 20.
- 5. Slide each storage drive rubber and pull away from storage drive bay.



6. Insert each new storage drive rubber and secure into storage drive bay.



7. Reinstall all removed parts. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

2.5-inch storage drive (for selected models)

Prerequisite

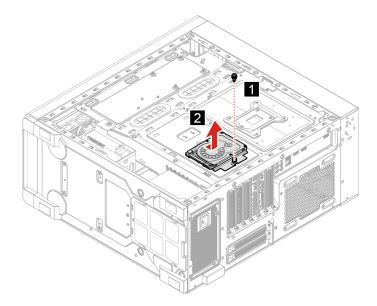
Before you start, read *Generic Safety and Compliance Notices*, and print the following instructions.

Attention: The internal storage drive is sensitive. Inappropriate handling might cause damage and permanent loss of data. When handling the internal storage drive, observe the following guidelines:

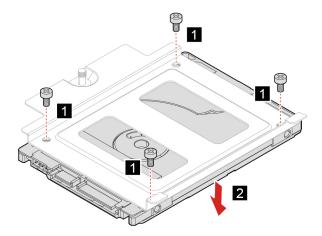
- · Replace the internal storage drive only for upgrade or repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- · Do not touch the contact edge of the internal storage drive. Otherwise, the internal storage drive might get damaged.
- Do not apply pressure to the internal storage drive.
- Do not make the internal storage drive subject to physical shocks or vibration. Put the internal storage drive on a soft material, such as cloth, to absorb physical shocks.

Replacement procedure

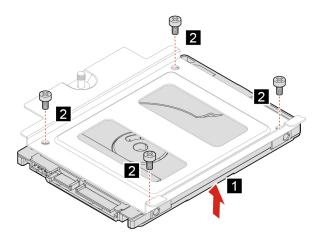
- 1. Remove the power cord. See "Power cord" on page 14.
- 2. Remove the right computer cover. See "Right computer cover" on page 17.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Disconnect the signal cable and the power cable from the storage drive.
- 5. Remove the screw to remove the storage drive and the bracket.



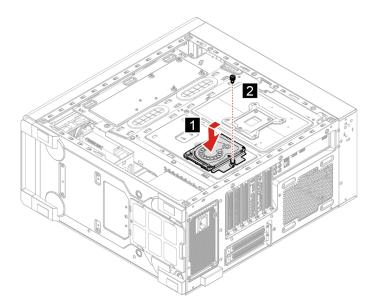
6. Remove four screws to remove the storage drive from the bracket.



7. Install the storage drive into the bracket and secure it with screws.



8. Install the storage drive and secure it with screw.



9. Connect the signal cable and the power cable to the new storage drive.

- 10. Reinstall all removed parts.
- 11. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

M.2 solid-state drive

Prerequisite

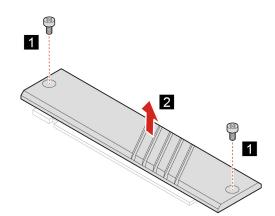
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Attention: The internal storage drive is sensitive. Inappropriate handling might cause damage and permanent loss of data. When handling the internal storage drive, observe the following guidelines:

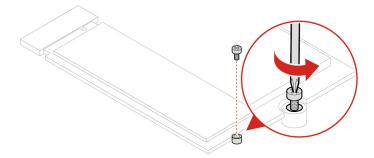
- Replace the internal storage drive only for upgrade or repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- Do not touch the contact edge of the internal storage drive. Otherwise, the internal storage drive might get damaged.

Replacement procedure

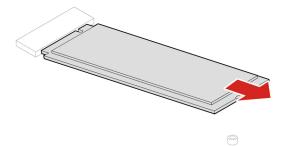
- 1. Turn off the computer and remove all connected devices and cables.
- 2. Remove the power cord. See "Power cord" on page 14.
- 3. Remove the right computer cover. See "Right computer cover" on page 17.
- 4. Remove the front bezel. See "Front bezel" on page 19.
- 5. Remove the screws to remove thermal pad from the M.2 solid-state drive.



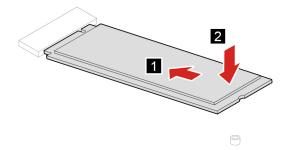
6. Remove the screw from M.2 solid-state drive.



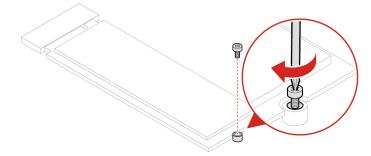
7. Slide the M.2 solid-state drive out.



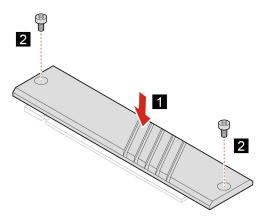
8. Install the M.2 solid-state drive in.



9. Secure the M.2 solid-state drive with the screw.



10. Secure the thermal pad with screws to the M.2 solid-state drive.



- 11. Reinstall all removed parts.
- 12. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

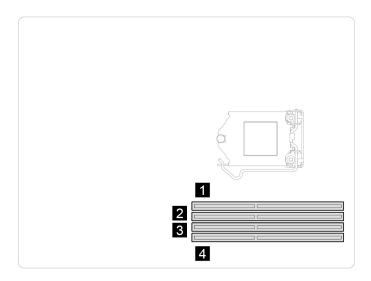
Note: If a locking device is available, use it to lock the computer.

Memory module

Prerequisite

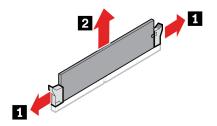
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Ensure that you follow the installation order for memory modules shown in the following illustration.

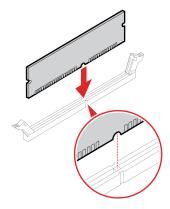


Replacement procedure

- 1. Remove the power cord. See "Power cord" on page 14.
- 2. Remove the right computer cover. See "Right computer cover" on page 17.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Disengage the latches and remove the memory module.



5. Install the new memory module and secure the memory module with the latches.



- 6. Reinstall all removed parts.
- 7. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

Heat sink and fan assembly

Prerequisite

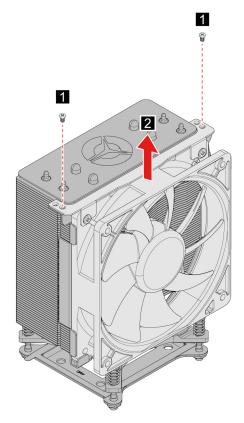
Before you start, read *Generic Safety and Compliance Notices*, and print the following instructions.



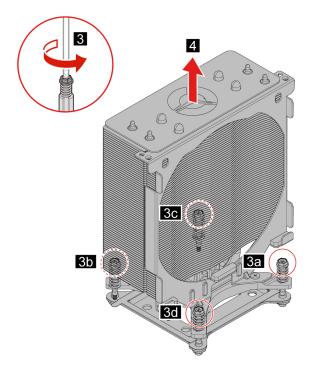
The heat sink might be very hot. Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

Replacement procedure

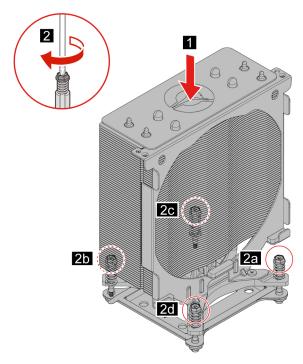
- 1. Remove the power cord. See "Power cord" on page 14
- 2. Remove the right computer cover. See "Right computer cover" on page 17.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Remove the fan power cable from the system board.
- 5. Remove the screws to remove the fan.



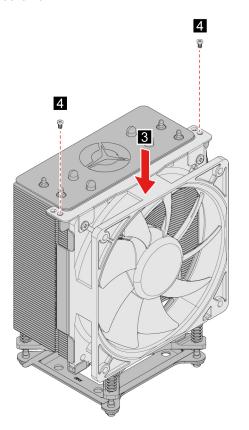
6. Remove the screws to remove the heat sink.



7. Install the heat sink and secure it with screws.



8. Install the fan and secure it with screws.



- 9. Reinstall all removed parts.
- 10. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

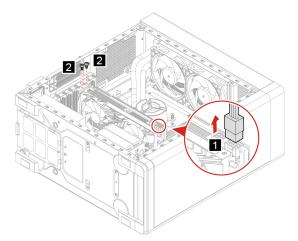
PCI-Express card and card holder

Prerequisite

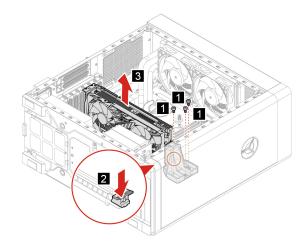
Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Replacement procedure

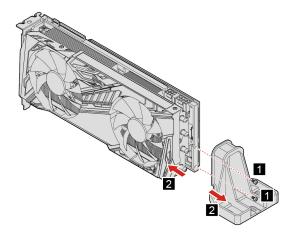
- 1. Turn off the computer and remove all connected devices and cables.
- 2. Remove the left computer cover. See "Left computer cover" on page 15.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Remove PCI-Express card connector cable, then remove two screws.



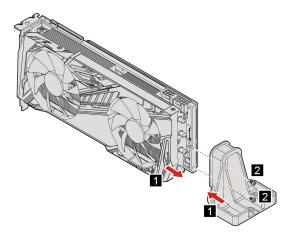
5. Remove three screws and disengage the latch. Then, remove the PCI-Express card and the holder from the computer.



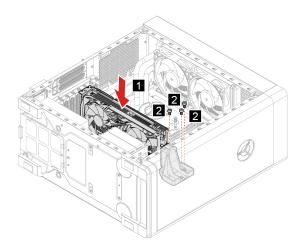
6. Remove two screws, then remove the holder from PCI-Express card.



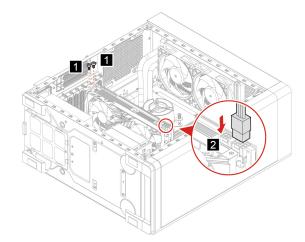
7. Install the holder to PCI-Express card.



- 8. Reinstall all removed parts.
- 9. Install the PCI-Express card and the holder to the computer.



10. Secure the PCI-Express card with the screws. Then, connect the PCI-Express card connector cable.



11. Reconnect all disconnected cables to the computer and reconnect the power cord to the electrical outlet.

Note: If a locking device is available, use it to lock the computer.

Coin-cell battery

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.



If the coin-cell battery is incorrectly replaced, there is danger of an explosion. The coin-cell battery contains a small amount of harmful substance. To avoid possible injury:

- Replace only with a battery of the type recommended by Lenovo.
- · Keep the battery away from fire.
- Do not expose it to excessive heat.
- Do not expose it to water or rain.
- Do not short-circuit it.
- Do not drop, crush, puncture the battery, or make it subject to strong forces. Battery abuse or mishandling can cause the battery to overheat, which can cause gasses or flame to "vent" from the battery or coin-cell battery.

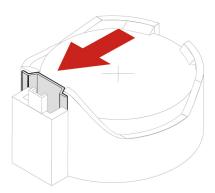
Note: To dispose of the coin-cell battery, refer to "Lithium coin-cell battery notice" in the *Safety and Warranty Guide*.

Your computer has a special type of memory that maintains the date, time, and settings for built-in features, such as parallel connector assignments (configurations). A coin-cell battery keeps this information active when you turn off the computer.

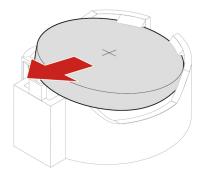
The coin-cell battery normally requires no charging or maintenance throughout its life; however, no coin-cell battery lasts forever. If the coin-cell battery fails, the date and time information is lost. An error message is displayed when you turn on the computer.

Replacement procedure

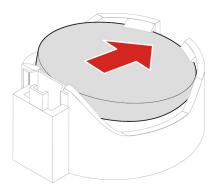
- 1. Remove the right computer cover. See "Right computer cover" on page 17.
- 2. Disengage the latch.



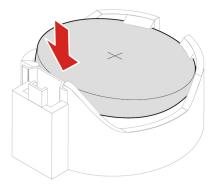
3. Remove the coin-cell battery.



4. Install the coin-cell battery.



5. Secure the coin-cell battery with the latch.



- 6. Reinstall all removed parts.
- 7. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

Power supply assembly

Prerequisite

Before you start, read Generic Safety and Compliance Notices, and print the following instructions.

Attention: Do not open your computer or attempt any repairs before reading the Important Product Information Guide.

Although there are no moving parts in your computer after the power cord has been disconnected, the following warnings are required for your safety and proper Underwriters Laboratories (UL) certification.

CAUTION:



Hazardous moving parts. Keep fingers and other body parts away.

Never remove the cover on a power supply or any part that has the following label attached.

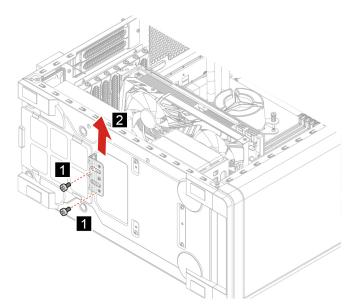


Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.

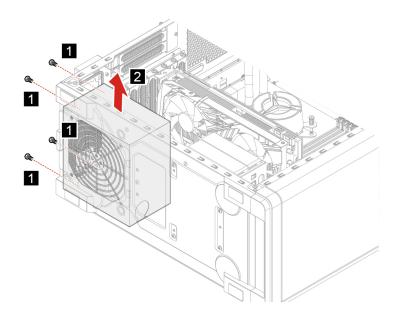
Replacement procedure

- 1. Turn off the computer and remove all connected devices and cables.
- 2. Remove the right computer cover. See "Right computer cover" on page 17.
- 3. Remove the front bezel. See "Front bezel" on page 19.
- 4. Disconnect the power supply cables from the system board.

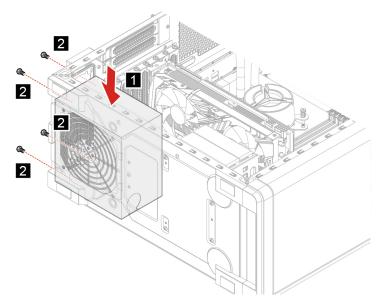
5. Remove the power supply assembly mounting screw from the rear of the chassis.



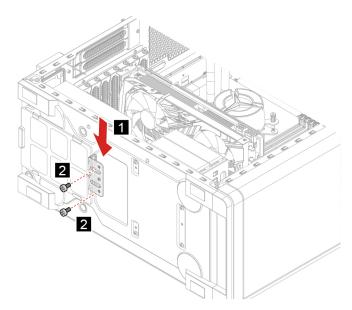
6. Remove the power supply assembly.



7. Install the power supply assembly and secure it with screws.



8. Install the power supply assembly mounting screw from the rear of the chassis.



- 9. Connect the power supply assembly cable into the system board.
- 10. Reinstall all removed parts.
- 11. Place the computer in an upright position. Then, reconnect the power cord and all disconnected cables to the computer.

Note: If a locking device is available, use it to lock the computer.

Chapter 5. Help and support

Fred	iuently	asked	questions
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How do I partition my storage drive?	Refer to https://support.lenovo.com/solutions/ht503851 Press and hold the power button until the computer turns off. Then restart the computer.		
What should I do if my computer stops responding.			
	Carefully unplug the ac power adapter and turn off the computer immediately. The more quickly you stop the current from passing through the computer the more likely you will reduce damage from short circuits.		
What should I do if I spill liquid on	Attention: Although you might lose some data or work by turning off the computer immediately, leaving the computer on might make your computer unusable.		
the computer?	Wait until you are certain that all the liquid is dry before turning on your computer.		
	CAUTION: Do not try to drain out the liquid by turning over the computer. If your computer has keyboard drainage holes on the bottom, the liquid will be drained out through the holes.		
Where can I get the latest device	Lenovo Vantage or Lenovo PC Manager		
drivers and UEFI/BIOS?	Lenovo Support Web site at https://support.lenovo.com		

Self-help resources

Use the following self-help resources to learn more about the computer and troubleshoot problems.

Resources	How to access?		
Troubleshooting and frequently asked questions	https://www.lenovo.com/tipshttps://forums.lenovo.com		
Accessibility information	https://www.lenovo.com/accessibility		
Reset or restore Windows	 Use Lenovo recovery options. Go to https://support.lenovo.com/ HowToCreateLenovoRecovery. Follow the on-screen instructions. Use Windows recovery options. Go to https://pcsupport.lenovo.com. Detect your computer or manually select your computer model. Click Diagnostics → Operating System Diagnostics and then follow the on-screen instructions. 		

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Resources	How to access?		
Use Lenovo Vantage to:			
Configure device settings.	Type Lenovo Vantage in the search box and then press		
 Download and install UEFI BIOS, drivers and firmware updates. 			
Secure you computer from outside threats.	Enter.		
Diagnose hardware problems.			
Check the computer warranty status.			
Access User Guide and helpful articles.			
Product documentation:			
Generic Safety and Compliance Notices	Go to https://pcsupport.lenovo.com . Then, follow the onscreen instructions to filter out the documentation you want.		
Safety and Warranty Guide			
Setup Guide			
This User Guide			
Regulatory Notice			
Lenovo Support Web site with the latest support information of the following:			
Drivers and software			
Diagnostic solutions	Go to https://support.lenovo.com.		
Product and service warranty			
Product and parts details			
Knowledge base and frequently asked questions			
Windows help information	Use Get Help or Tips. Use Windows Search or the Cortana® personal		
	 assistant. Go to Microsoft support Web site: https://support.microsoft.com. 		

Call Lenovo

If you have tried to correct the problem yourself and still need help, you can call Lenovo Customer Support Center.

Before you contact Lenovo

Prepare the following before you contact Lenovo:

- 1. Record the problem symptoms and details:
 - What is the problem? Is it continuous or intermittent?
 - Any error message or error code?
 - What operating system are you using? Which version?
 - Which software applications were running at the time of the problem?
 - Can the problem be reproduced? If so, how?
- 2. Record the system information:
 - Product name
 - Machine type and serial number
 The following illustration shows where to find the machine type and serial number of your computer.



Lenovo Customer Support Center

During the warranty period, you can call Lenovo Customer Support Center for help.

Telephone numbers

For a list of the Lenovo Support phone numbers for your country or region, go to: https://pcsupport.lenovo.com/supportphonelist

Note: Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

Services available during the warranty period

- Problem determination Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

Services not covered

- Replacement or use of parts not manufactured for or by Lenovo or nonwarranted parts
- Identification of software problem sources
- Configuration of UEFI BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

For the terms and conditions of the Lenovo Limited Warranty that apply to your Lenovo hardware product, see "Warranty information" in the Safety and Warranty Guide that comes with your computer.

Purchase additional services

During and after the warranty period, you can purchase additional services from Lenovo at: https://pcsupport.lenovo.com/warrantyupgrade

Service availability and service name might vary by country or region.

Appendix A. Notices and trademarks

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