

User Guide

Lenovo
LEGION

Lenovo

Lenovo Legion Tower 5i (30L, Gen10)

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 (December 2024)

© Copyright Lenovo 2024.

LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Contents

About this documentation iii

Chapter 1. Meet your computer 1

Front 1
Top 2
Rear 4
Specifications 5
USB specifications 6
The Vantage app 6

Chapter 2. Get started with your computer 9

Access networks 9
Connect an external display 9
Connect to a Bluetooth device 9
 Conventional pair 9
 Swift pair 10
Set the power plan 10
Security 10
 Lock the computer 10
 Use software security solutions 11

Chapter 3. CRU replacement 13

CRU list 13
Tool-less storage 13
Power cord 14
Left computer cover 14
Right computer cover 15

Inside decoration cover 16
Bottom mesh 17
3.5-inch storage drive (for selected models) 18
M.2 solid-state drive and heatsink (for selected models) 19
PCI-Express card 21
Memory module 24
Power supply assembly 26

Chapter 4. Help and support 31

Find your serial number 31
Diagnose and troubleshoot your computer 31
 Troubleshoot and diagnose at Lenovo
 Support Web site 31
 Hardware scan 32
Recover your Windows operating system 32
Call Lenovo 33
 Before you contact Lenovo 33
Self-help resources 33
Purchase accessories or additional services 33
Accessibility features 34

Appendix A. Notice for USB connector name update 37

Appendix B. Notices and trademarks 39

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.

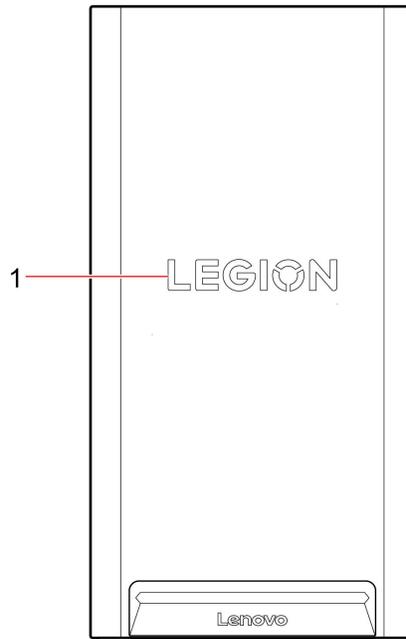
Model name	Machine types (MT)
Legion T5 30IAX10	90YD, 90YE, 90YF, 90YG

- For more compliance information, refer to *Regulatory Notice* at <https://pcsupport.lenovo.com> and *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.

Chapter 1. Meet your computer

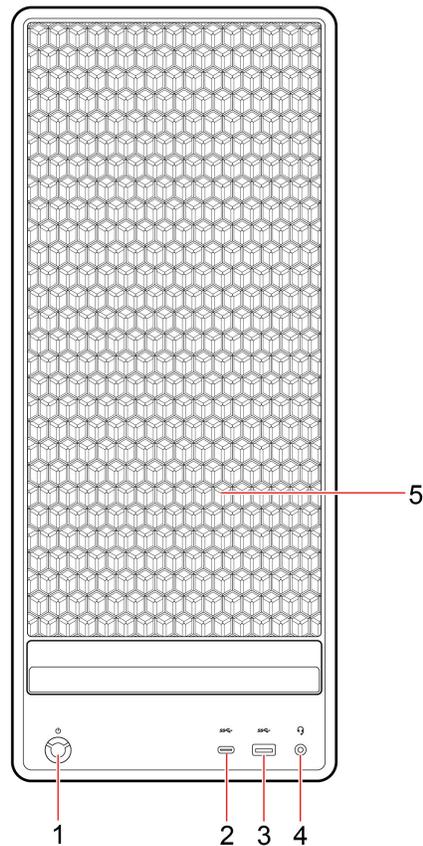
This computer is equipped with an extensive selection of ports, providing convenient connectivity options for multiple devices.

Front



Item	Description
1	Lenovo Legion logo

Top



Item	Description	Item	Description
1	Power button	2	USB-C® connector (USB 5Gbps)
3	USB-A connector (USB 5Gbps)	4	Headset connector
5	Dust screen		

Note: For more information about the USB connector name update, see Appendix A “Notice for USB connector name update” on page 37.

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 in the connector name or below for each corresponding device.

USB device	Data rate (Gbit/s)
Thunderbolt 3	40
Thunderbolt 4	40

Power indicator

Show the system status of your computer.

- **On:** The computer is starting up or working.
- **Off:** The computer is off or in hibernation mode.
- **Blinking slowly:** The computer is in sleep mode.

Headset connector

The headset connector is compatible with:

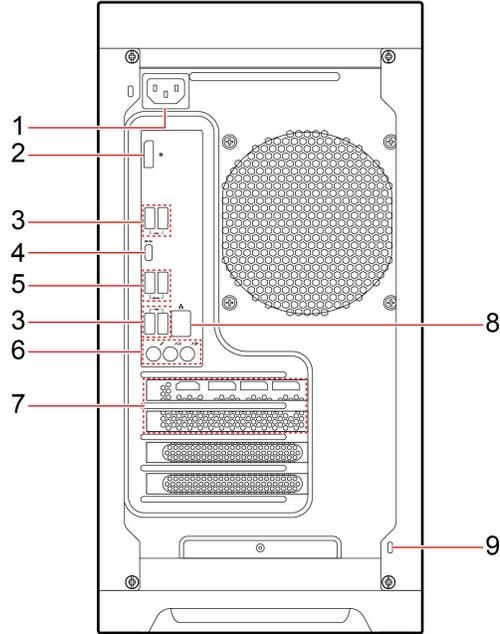
- Headphones or earphones with a 3.5 mm (0.14 inch), TRS (3-pole) plug
- Headsets with a 3.5 mm (0.14 inch), CTIA and OMTP -compliant TRRS (4-pole) plug

Note: This headset connector does not support standalone external microphones with a TRS (3-pole) plug.

Related topics

- “USB specifications” on page 6.

Rear



Item	Description	Item	Description
1	Power cord connector	2	DisplayPort™ out connector
3	USB-A connectors (Hi-Speed USB)	4	USB-C connector (USB 20Gbps)
5	USB-A connectors (USB 5Gbps)	6	Audio connectors
7	PCI-Express card area	8	Ethernet connector (2.5G)
9	Security-lock slot		

Related topics

- “USB specifications” on page 6.
- “Connect an external display” on page 9.
- “Lock the computer” on page 10.

Specifications

Specification	Description
Hardware	To view the hardware information of your computer, type device manager in the Windows search box and then press Enter.
Power supply	<ul style="list-style-type: none">• 500-watt automatic voltage-sensing power supply• 550-watt (220 V only) 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	<ul style="list-style-type: none">• Double data rate 5 (DDR5) small outline dual in-line memory module (SODIMM)• Double data rate 5 (DDR5) clocked small outline dual in-line memory module (CSODIMM)
Storage device	<ul style="list-style-type: none">• 3.5-inch hard disk drive*• M.2 solid-state drive <p>To view the storage drive capacity of your computer, type disk management in the Windows search box and then press Enter.</p> <p>Note: The storage drive capacity indicated by the system is less than the nominal capacity.</p>
Video features	<ul style="list-style-type: none">• The integrated graphics card supports the following:<ul style="list-style-type: none">– DisplayPort out connector <p>Note: The maximum output resolution for the DisplayPort out connector is 5120 x 2160 with a frame rate of 60 Hz.</p> <ul style="list-style-type: none">• The discrete graphics card supports the following:<ul style="list-style-type: none">– DisplayPort out connectors– HDMI out connector
Expansion	<ul style="list-style-type: none">• Memory slots• M.2 solid-state drive slots• Storage drive bay*• PCI-Express slots
Network features	<ul style="list-style-type: none">• Bluetooth• Ethernet LAN• Wireless LAN

* for selected models

Operating environment

Maximum altitude (without pressurization)

- Operating: From 0 m (0 ft) to 3048 m (10 000 ft)
- Storage: From 0 m (0 ft) to 12192 m (40 000 ft)

Temperature

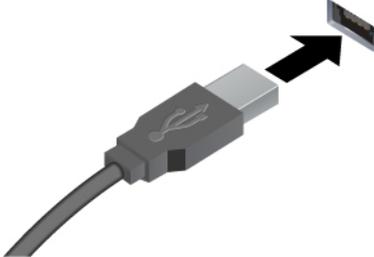
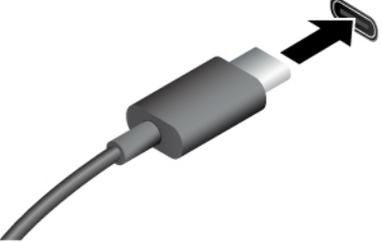
- Operating: From 5°C (41°F) to 35°C (95°F)
- Storage:
 - For common desktop computers: From -40°C (-40°F) to 60°C (140°F)
 - For all-in-one desktop computers: From -20°C (-4°F) to 60°C (140°F)

Relative humidity

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

USB specifications

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

Connector name	Description
 <ul style="list-style-type: none">•  USB-A connector (Hi-Speed USB)•  USB-A connector (USB 5Gbps)	<p>Connect USB-A compatible devices, such as a USB-A keyboard, USB-A mouse, USB-A storage device, or USB-A printer.</p>
 <ul style="list-style-type: none">•  USB-C connector (USB 5Gbps)•  USB-C connector (USB 20Gbps)	<ul style="list-style-type: none">• Charge USB-C compatible devices with the output voltage and current of 5 V and 3 A.• Connect to USB-C accessories to help expand your computer functionality. To purchase USB-C accessories, go to https://www.lenovo.com/accessories.

The Vantage app

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

To access the Vantage app, type Vantage in the Windows search box.

Notes:

- The available features vary depending on the computer model.
- The Vantage app 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. You can download the latest version of Vantage app from Microsoft Store.

The Vantage app enables you to:

- Know the device status easily and customize device settings.
- Download and install UEFI BIOS, firmware, and driver 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.

Chapter 2. Get started with your computer

Access networks

This section helps you connect to a wireless or wired network.

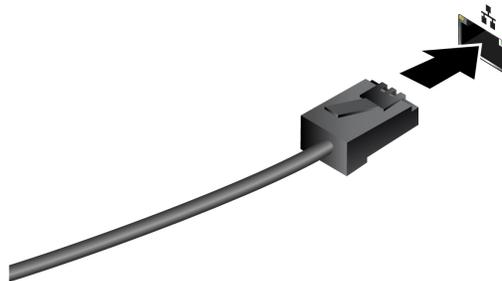
Connect to Wi-Fi networks

Click the network icon  on the bottom right of your display to connect to an available network. Provide required information, if needed.

Note: The wireless LAN module on your computer may support different standards. For some countries or regions, use of 802.11ax and 802.11be may be disabled according to local regulations.

Connect to the wired Ethernet

Connect your computer to a local network through the Ethernet connector on your computer with an Ethernet cable.



Connect an external display

Connect a projector or a monitor to your computer to give presentations or expand your workspace.

Change display settings

1. Right-click a blank area on the desktop and select display settings.
2. Select the display that you want to configure and change display settings of your preference.

Connect to a Bluetooth device

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

Conventional pair

This topic helps you connect to a Bluetooth device by conventional pair.

- Step 1. Type Bluetooth in the Windows search box and then press Enter.
- Step 2. Turn on both the Bluetooth on your computer and the Bluetooth device. Make sure the device is discoverable.

Step 3. Select the device when it is displayed on the **Add a device** list, and then follow the on-screen instructions.

Notes: If the Bluetooth connection failed, do the following:

1. Type Device Manager in the Windows search box and then press Enter.
2. Locate the Bluetooth adapter. Right-click and select **Update driver**.
3. Select **Search automatically for drivers**, and then follow the on-screen instructions.

Swift pair

This topic helps you connect to a Bluetooth device by swift pair.

If your Bluetooth device supports swift pair, do the following:

- Step 1. Enable swift pair notification on Bluetooth settings page.
- Step 2. Turn on both the Bluetooth on your computer and the Bluetooth device. Make sure the device is discoverable.
- Step 3. Click **Connect** when a swift pair notification appears on your computer.

Notes: If the Bluetooth connection failed, do the following:

1. Type Device Manager in the Windows search box and then press Enter.
2. Locate the Bluetooth adapter. Right-click and select **Update driver**.
3. Select **Search automatically for drivers**, and then follow the on-screen instructions.

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 set the power plan:

1. Type **Power Options** in the Windows search box and then press Enter.
2. Choose or customize a power plan of your preference.

Security

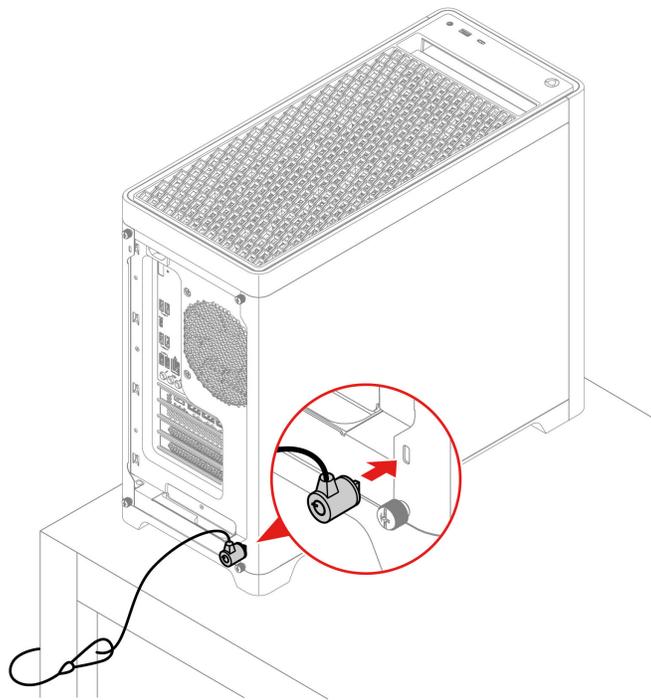
This computer offers a wealth of security measures to protect both the device and data safety.

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.

Security lock

Lock your computer to a desk, table, or other fixtures through a security lock.



Use software security solutions

The following software solutions help secure your computer and information.

- **Windows Security**

Windows Security is a software built-in to the operating system. It continually scans for malicious software, viruses, and other security threats. Besides, Windows updates are downloaded automatically to help keep your computer safe. Windows Security also enables you to manage tools including firewall, account protection, application and browser control, and so on.

- **Antivirus programs**

Lenovo preinstalls a full-version antivirus software on selected models of computer. It helps defend the computer against viruses, safeguard your identity, and keep your personal information secured.

Note: For more information about how to use these software solutions, refer to their help systems respectively.

Chapter 3. CRU replacement

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

- **Self-service CRUs:** Refer to parts that can be replaced easily by customer themselves or by trained service technicians at an additional cost.
- **Optional-service CRUs:** Refer to parts that can be replaced by customers with a greater skill level. Trained service technicians can also provide service to 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

- Bottom mesh
- Computer cover
- Inside decoration cover
- Keyboard*
- Memory module
- Mouse*
- Power cord
- 3.5-inch storage drive*
- 3.5-inch storage drive tray*

Optional-service CRUs

- M.2 solid-state drive
- PCI-Express card
- Power supply assembly
- Solid-state drive heatsink*
- Solid-state drive mylar*

* for selected models

Tool-less storage

You can remove or replace the storage devices of this computer without tools.

Related topics

- “3.5-inch storage drive” on page 18.

Power cord

Prerequisite

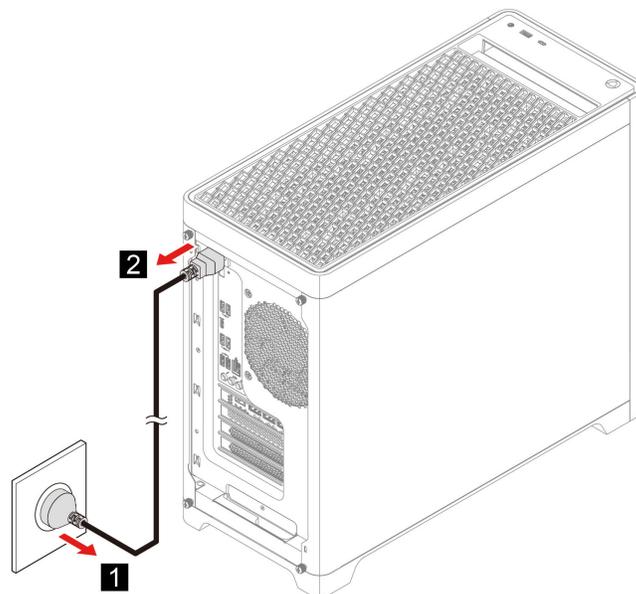
Before you start, read *Generic Safety and Compliance Notices*, and print the following instructions.

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

For access, do the following:

1. Turn off the computer and remove all connected devices and cables.

Removal steps



Left computer cover

Prerequisite

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



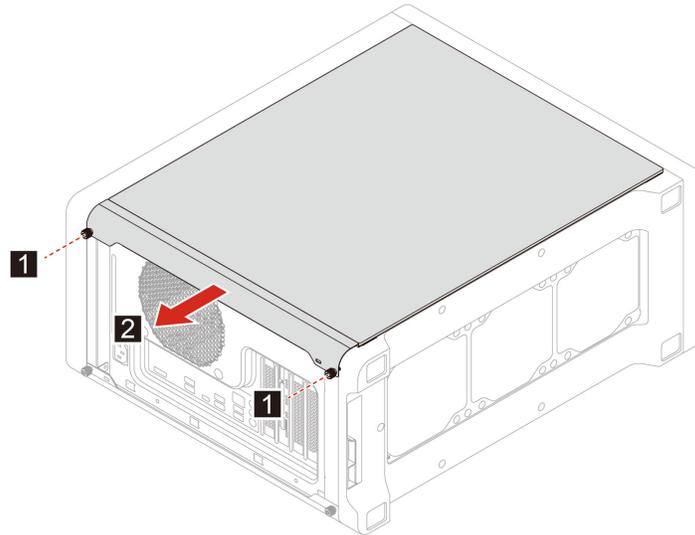
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, do the following:

1. Turn off the computer and remove all connected devices and cables.
2. Unlock any locking device that secures the computer cover.
3. Remove the power cord. See “Power cord” on page 14.

4. Lay down the computer to place the left computer cover facing up.

Removal steps



Screw (quantity)	Color	Torque
6-32 x 4 mm, Zn coated (2)	Black	5.5-6.0 kgf.cm

Right computer cover

Prerequisite

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

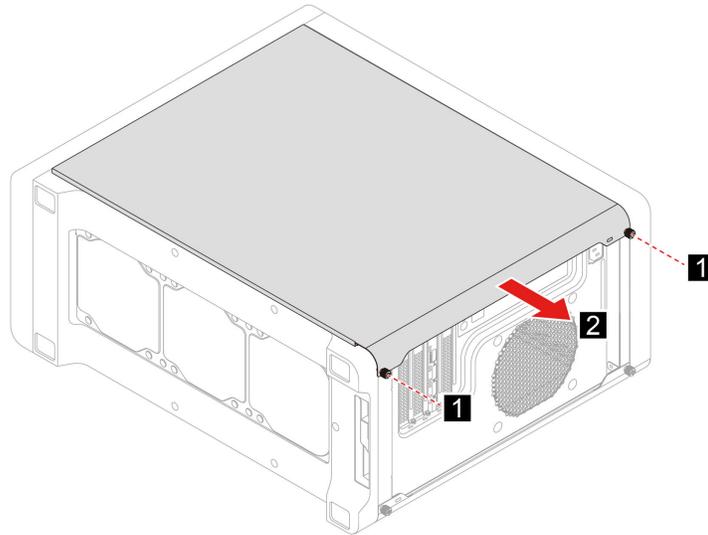


Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, do the following:

1. Turn off the computer and remove all connected devices and cables.
2. Unlock any locking device that secures the computer cover.
3. Remove the power cord. See “Power cord” on page 14.
4. Lay down the computer to place the right computer cover facing up.

Removal steps



Screw (quantity)	Color	Torque
6-32 x 4 mm, Zn coated (2)	Black	5.5-6.0 kgf.cm

Inside decoration cover

Prerequisite

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

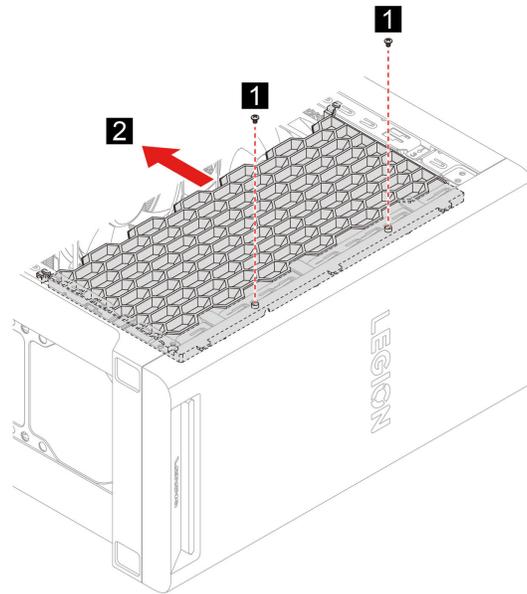


Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, remove the following parts in order:

- “Power cord” on page 14.
- “Left computer cover” on page 14.

Removal steps



Screw (quantity)	Color	Torque
M3 × 8 mm, Zn coated (2)	Black	5.5-6.0 kgf.cm

Bottom mesh

Prerequisite

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

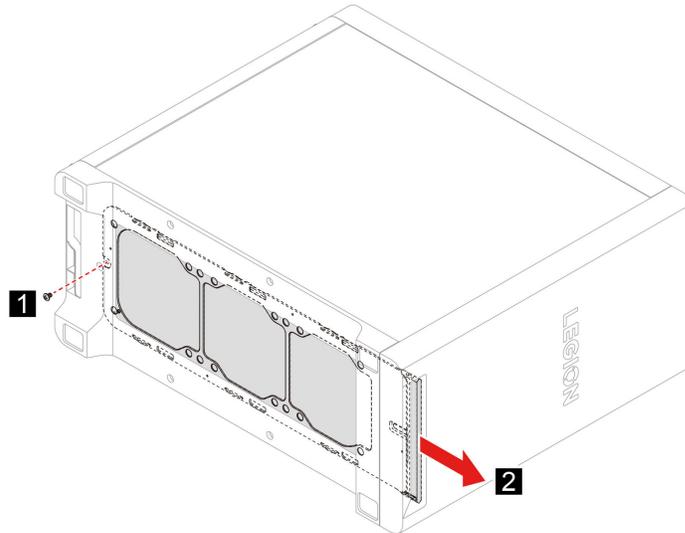


Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, do the following:

1. Turn off the computer and remove all connected devices and cables.
2. Remove the power cord. See “Power cord” on page 14.
3. Lay down the computer.

Removal steps



Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (1)	Black	5.5-6.0 kgf.cm

3.5-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:

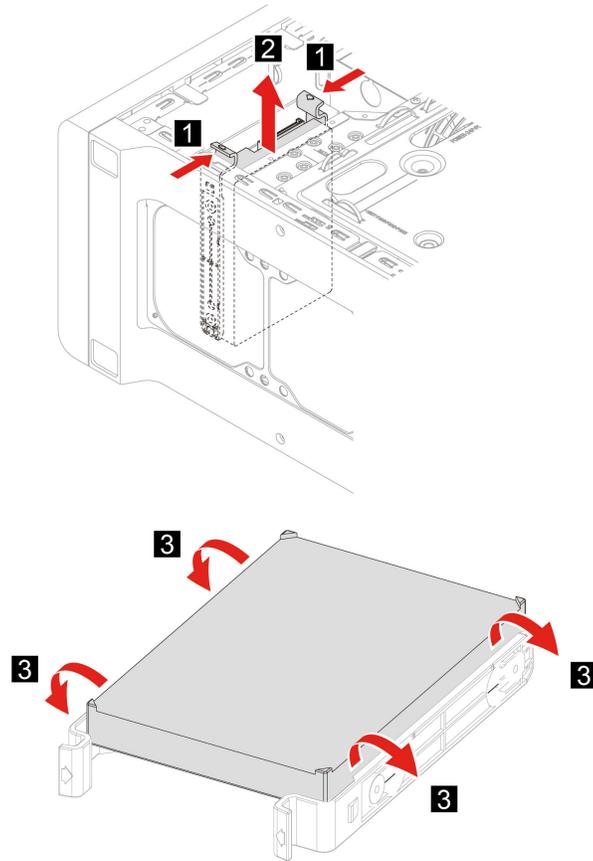
- Replace the internal storage drive only for upgrade or repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- Do not touch the contact edge of the internal storage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

For access, do the following:

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 15.
4. Disconnect the signal cable and the power cable from the storage drive if available.

Note: 3.5-inch storage drive or tray might not provide on all product models.

Removal steps



M.2 solid-state drive and heatsink (for selected models)

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.

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:

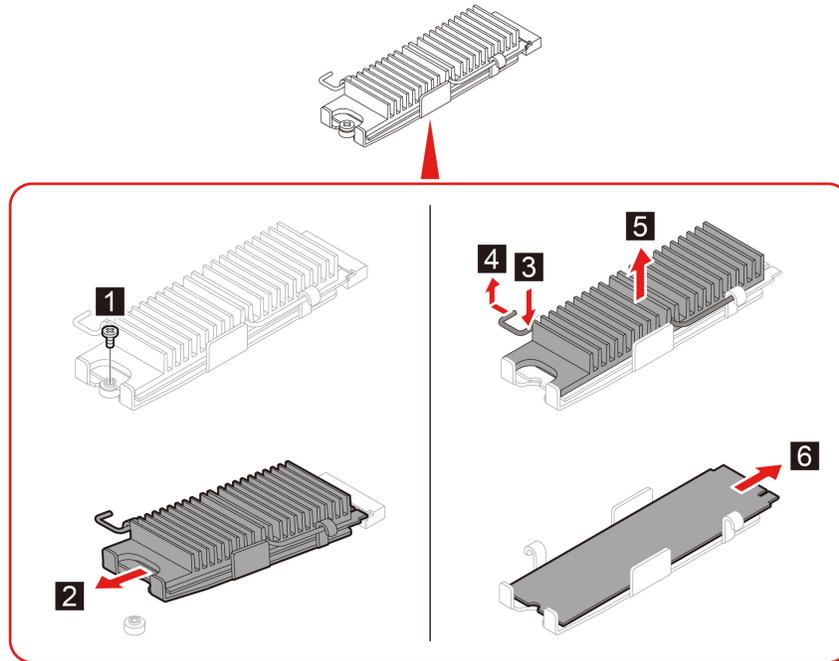
- Replace the internal storage drive only for repair. The internal storage drive is not designed for frequent changes or replacement.
- Before replacing the internal storage drive, make a backup copy of all the data that you want to keep.
- Do not touch the contact edge of the internal storage drive.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

For access, do the following:

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 14.
4. Remove the PCI-Express card (if needed). See “PCI-Express card” on page 21.

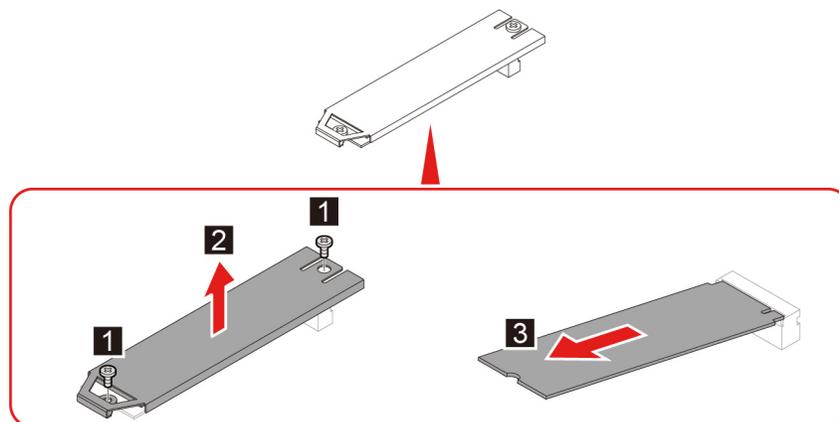
Removal steps

- Type 1



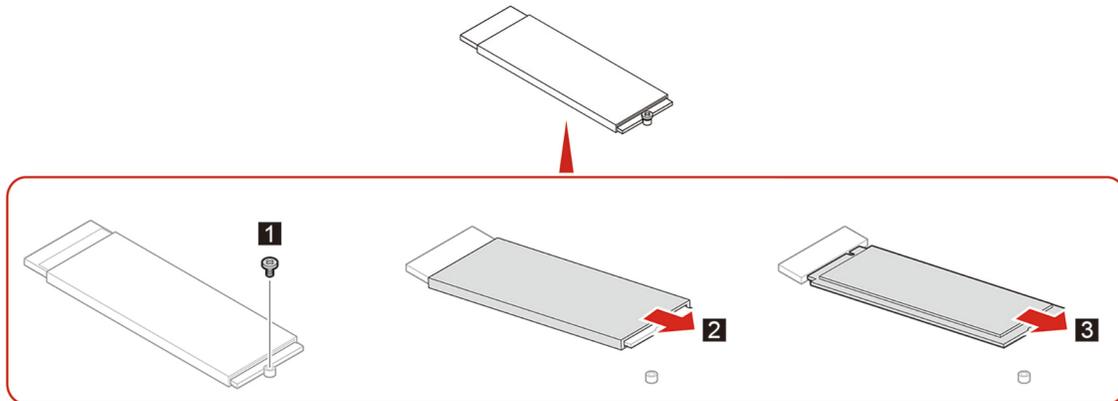
Screw (quantity)	Color	Torque
M2 × 3.5 mm, Ni coated (1)	Black	3.0-3.5 kgf.cm

- Type 2



Screw (quantity)	Color	Torque
M2 × 3.5 mm, Ni coated (2)	Black	3.0-3.5 kgf.cm

- Type 3



Screw (quantity)	Color	Torque
M2 × 3.5 mm, Ni coated (1)	Black	3.0-3.5 kgf.cm

PCI-Express card

Prerequisite

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



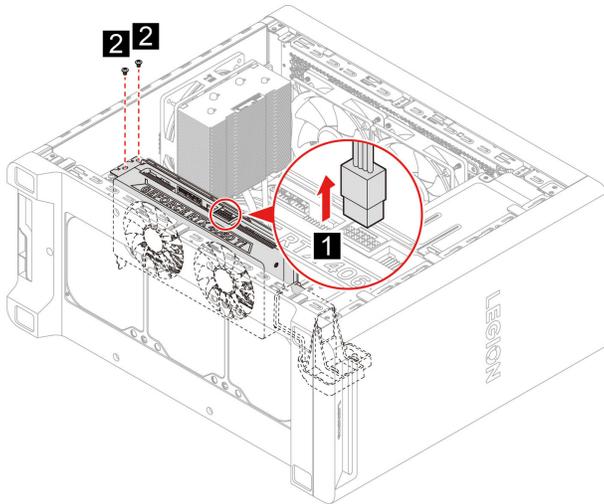
Before you open the computer cover, turn off the computer and wait several minutes until the computer is cool.

For access, do the following:

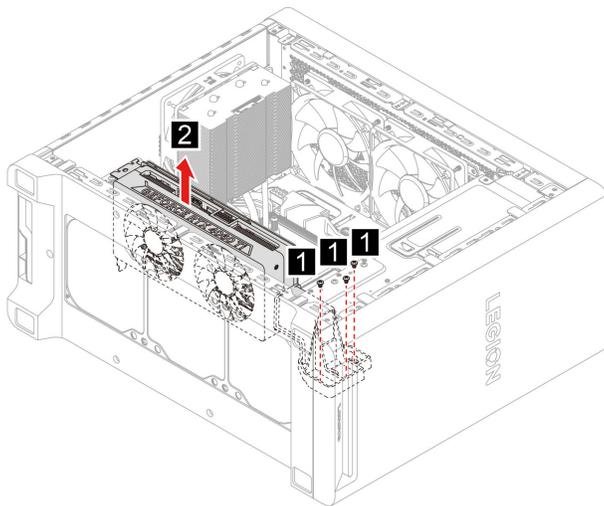
1. Turn off the computer and remove all connected devices and cables.
2. Remove these parts, if any:
 - Remove the power cord. See “Power cord” on page 14.
 - Remove the left computer cover. See “Left computer cover” on page 14.
 - Remove the inside decoration cover. See “Inside decoration cover” on page 16.
3. Remove the PCI-Express card connector cable.

Removal steps

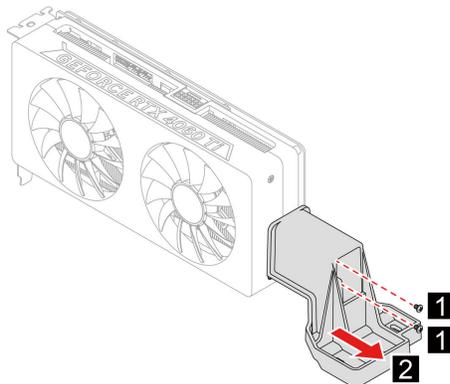
- Type 1



Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (2)	Black	8.0-8.5 kgf.cm

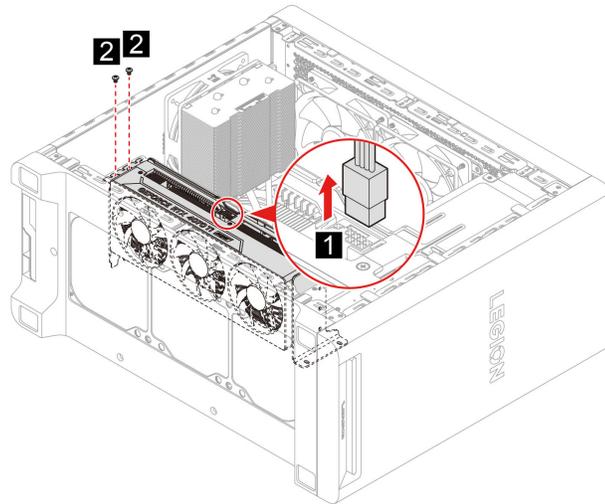


Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (3)	Black	8.0-8.5 kgf.cm

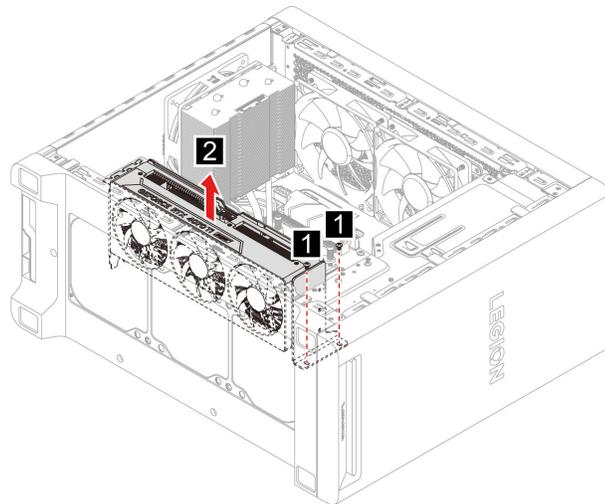


Screw (quantity)	Color	Torque
M3 × 5 mm, Zn coated (2)	Black	3.0-3.5 kgf.cm

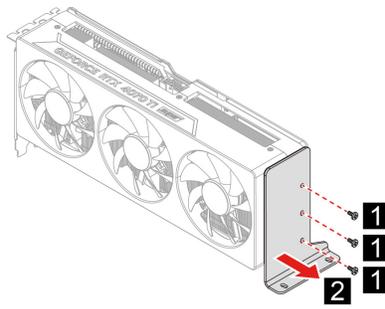
- Type 2



Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (2)	Black	8.0-8.5 kgf.cm

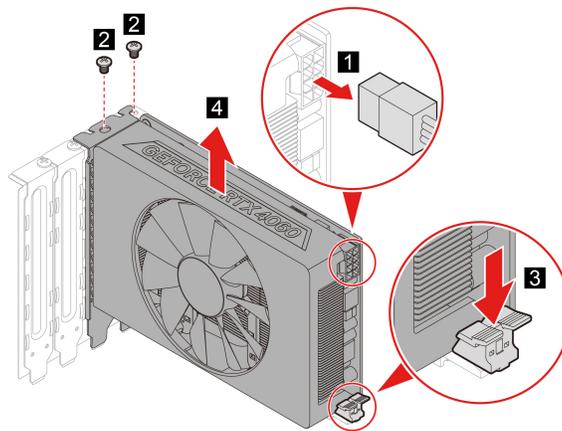


Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (2)	Black	8.0-8.5 kgf.cm



Screw (quantity)	Color	Torque
M3 × 5 mm, Zn coated (3)	Black	3.0-3.5 kgf.cm

- Type 3



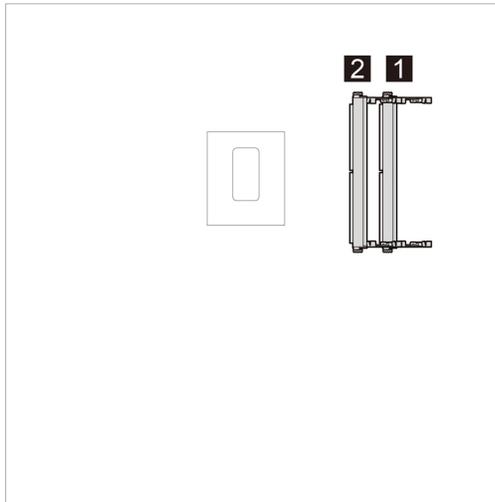
Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (2)	Black	8.0-8.5 kgf.cm

Memory module

Prerequisite

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

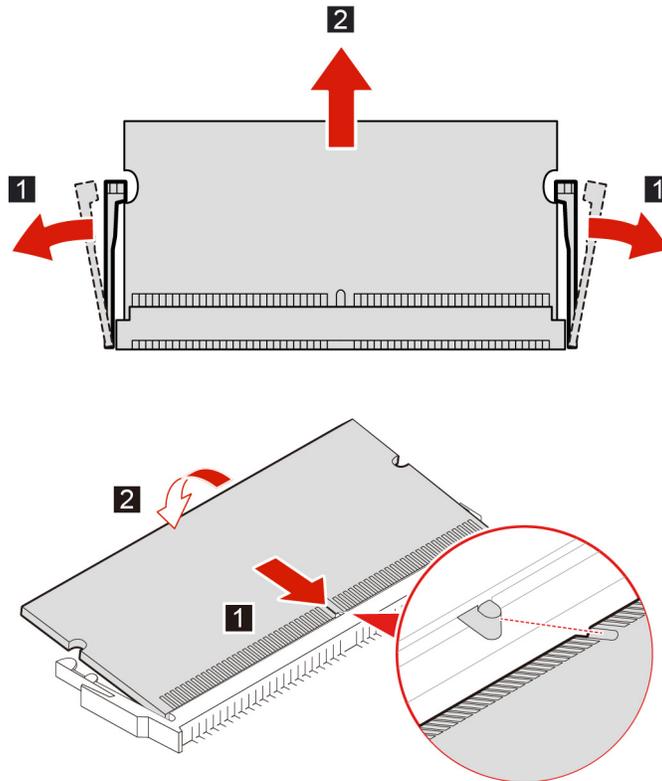
Note: Ensure that you follow the installation order for memory modules shown in the following illustration.



For access, remove the following parts in order:

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 14.

Replacement procedure



Power supply assembly

Prerequisite

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

Although there are no moving parts in the computer after the power cord has been disconnected, the following warnings are required for your safety.



Keep fingers and other parts of your body away from hazardous, moving parts. If you suffer an injury, seek medical care immediately. Never remove the cover on a power supply or any part that has the following label attached.



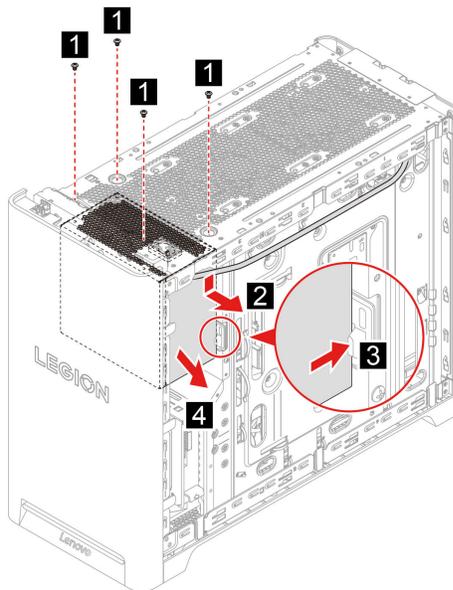
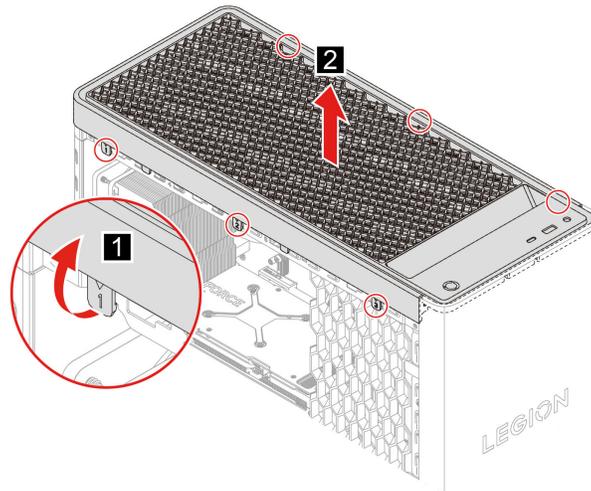
Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.

For access, do the following:

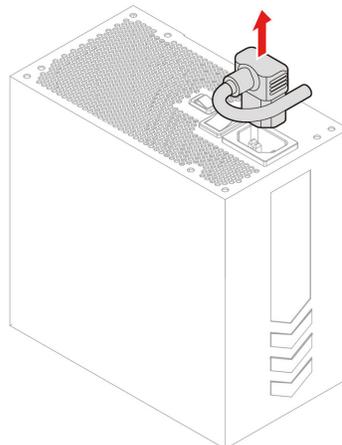
1. Turn off the computer and remove all connected devices and cables.
2. Remove these parts, if any:
 - Remove the power cord. See “Power cord” on page 14.
 - Remove the left computer cover. See “Left computer cover” on page 14.
 - Remove the right computer cover. See “Right computer cover” on page 15.
3. Disconnect the power supply cables from the system board.

Removal steps

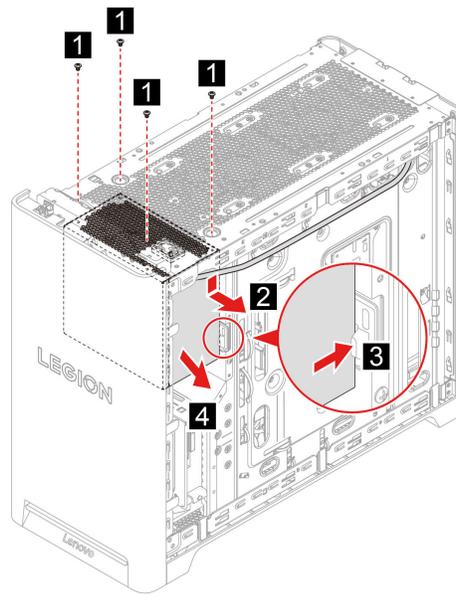
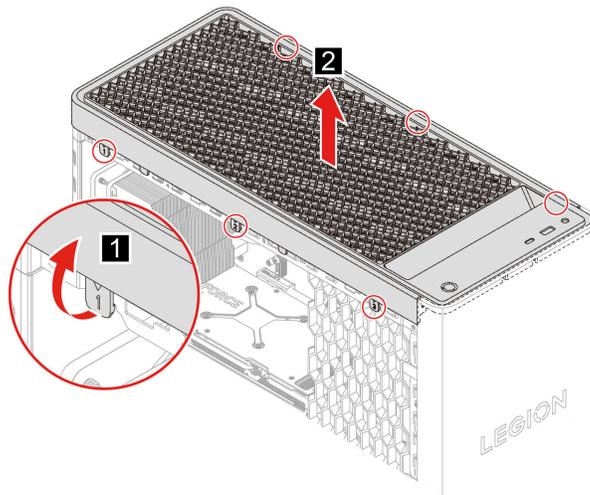
- Type 1



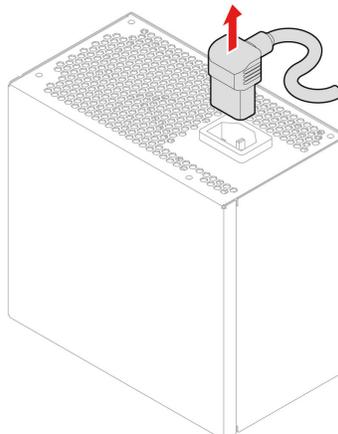
Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (4)	Black	8.0-8.5 kgf.cm



- Type 2



Screw (quantity)	Color	Torque
6-32 × 5 mm, Ni coated (4)	Black	8.0-8.5 kgf.cm



When installing:

- Make sure the power supply assembly fan is facing the inside of the computer chassis.
- Arrange the cable in to the cable guide according to the direction of the power plug.

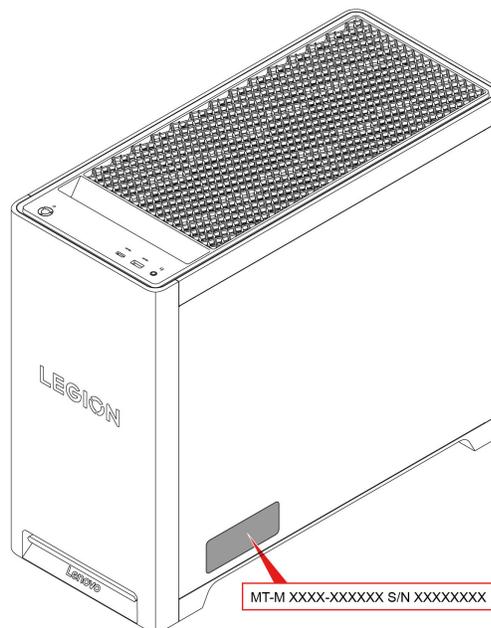
Chapter 4. Help and support

Find your serial number

This topic helps you find computer serial number.

You can find your serial number via:

- **Dashboard** or **Device** in the **Vantage** app
- Serial number and machine type label of your computer (shown as below illustration)



Diagnose and troubleshoot your computer

This section provides introduction to a set of diagnostics and troubleshooting tools at Lenovo Support Web site and the Vantage app. They can help you diagnose common software and hardware issues.

The following table lists these diagnostics tools and the recommended conditions for each tool.

Diagnostics tool	Recommended scenario
Troubleshoot and diagnose at Lenovo Support Web site	You want to have an online troubleshooting or scan of hardware and drivers on your computer.
Hardware scan	<ul style="list-style-type: none">• Your computer is installed with the Vantage app.• You want to perform basic examinations of the hardware components.

Troubleshoot and diagnose at Lenovo Support Web site

Lenovo provides two different diagnosing solutions to help you identify and resolve problems on your computer.

- Step 1. Go to <https://www.pcsupport.lenovo.com/> and enter your product name in the search box.
- Step 2. Click **Troubleshoot & Diagnose** and select the option that fits your need.

Notes:

- Before launching any automatic diagnosing process, a pop-up window will be prompted to install Lenovo Service Bridge. Lenovo Service Bridge helps to connect your computer with Lenovo diagnosing tools.
 - Lenovo Support Web site makes periodic updates of the sections to keep improving your experience with your computer. The Web site interface and descriptions of sections might be different from that on your actual interface.
-
- If you are unaware of what problem your computer goes with, it is recommended that you select **Easy** and follow on-screen instructions to get your firmware updated and obtain the hardware status.
 - If you have identified the problem on your computer, you can select **Custom** and follow on-screen instructions to resolve the problem.

If solutions can not resolve problems on your computer, you can follow on-screen instructions to submit an e-ticket or contact Lenovo for professional assistance.

Hardware scan

Hardware scan is an effective hardware testing tool to help you identify existing hardware issues.

To run the Hardware scan:

- Step 1. Type **Vantage** in the Windows search box and then press Enter.
- Step 2. Click **Hardware scan** or **Support → Hardware scan**.
- Step 3. Select **QUICK SCAN** or **CUSTOMIZE** and then follow the on-screen instructions to run the hardware scan.

Notes:

- The Quick Scan tool contains a pre-selected suite of tests that performs basic examinations of the hardware components found in the system. The Customize tool enables you to select one or several hardware components to perform the examinations.
 - Before selecting **QUICK SCAN**, click **Refresh Modules** to ensure that the list of hardware components is the components currently available for the computer.
- Step 4. If any hardware failure is detected, the result varies depending on the warranty status and varies by country or region. Follow the on-screen instructions to resolve the issue.

Recover your Windows operating system

When you encounter some unexpected issues with your operating system, you can choose to recover your operating system by yourself or call Lenovo Customer Support Center.

Note: Microsoft constantly makes updates to the Windows operating system. Before installing a particular Windows version, check the compatibility list for the Windows version. For details, go to <https://support.lenovo.com/us/en/solutions/ht512575>.

To recover your operating system to...	See.
Factory defaults	Refer to the instructions in https://support.lenovo.com/HowToCreateLenovoRecovery
A previous system point	Refer to the instructions in Popular Topics: https://support.lenovo.com/solutions/ht118590

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 needed information 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.

Self-help resources

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

Resources	How to access?
Lenovo Support Web Site	https://pcsupport.lenovo.com
Tips	https://www.lenovo.com/tips
Lenovo Community	https://forums.lenovo.com
Accessibility information	https://www.lenovo.com/accessibility
Windows help information	<ul style="list-style-type: none"> • Open the Start menu and click Get Help or Tips. • Use Windows Search. • Microsoft support Web site: https://support.microsoft.com

Purchase accessories or additional services

This topic provides instructions on how to purchase accessories or additional services.

Accessories

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

To shop at Lenovo, go to <https://www.lenovo.com/accessories>.

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 names might vary by country or region.

Accessibility features

Lenovo is committed to making information technology accessible to everyone, including those with hearing, vision, or mobility limitations. Lenovo supports accessibility features in the following ways to help all users better engage with Lenovo products.

Accessible documentation

Lenovo documentation is designed to meet users' accessibility needs. Users can read the documentation with assistance as needed. For example:

- Text and images are in high contrast. Color contrast can enhance the visual experience. In this mode, all contents are highlighted to be more visible.
- Text is logical and readable. Images are also readable with alternative text provided. A screen reader can enhance the hearing or listening experience. In this mode, all contents are clearer and easier to understand.
- Text is large and clear, making it easier to read. A magnifier can enlarge the text to improve readability.

For more information, watch the video at:

https://support.lenovo.com/docs/pc_pub_accessibility

Accessible product design

Lenovo product design also supports accessibility features.

Note: The accessibility features vary by product. Depending on the product model, some accessibility features listed below might not be applicable to the product. To get the most up-to-date accessibility information for the product, go to <https://www.lenovo.com/accessibility>. For additional support from Lenovo, users can find phone numbers for their country or region from <https://support.lenovo.com/supportphonenumber>.

- **Keyboards**

Lenovo keyboards support various accessibility features. For example:

- Consistent layout of keyboards for easier use
- Tactile markings on some keys for easier identification
- Appropriate spacing between keys for typing efficiency
- Sufficient contrast of keys, controls, and labels for better visibility
- On-screen notification or lighted notification for some keys for ease of use
- Keys and controls that can be reached and operated using one hand and require minimal dexterity for ease of use

- **Industry-standard connectors**

The industry-standard connectors on Lenovo products enable better compatibility with peripheral devices.

- **Operating systems**

The accessibility features of the operating systems can be configured to assist users in the following ways:

- Vision features, such as text size and visual effect settings, make the screen contents easier to see.
- Hearing features, such as audio and caption settings, make the screen contents easier to hear.
- Interaction features, such as speech and eye-control settings, make the product easier to control.

To access the accessibility features of the Windows 11 operating system, go to **Start → Settings → Accessibility**.

Appendix A. Notice for USB connector name update

The USB Implementers Forum published a revision of the guideline for USB connector names in September, 2022. Lenovo follows the revised guideline and updates USB connector names accordingly. You can refer to the table below for naming update details.

Current name	Previous name
USB-A connector (Hi-Speed USB)	USB-A 2.0 connector
USB-A connector (USB 5Gbps)	USB-A 3.2 Gen 1 connector
USB-A connector (USB 10Gbps)	USB-A 3.2 Gen 2 connector
USB-A connector (USB 5Gbps, Always On USB)	Always on USB-A 3.2 Gen 1 connector
USB-A connector (USB 10Gbps, Always On USB)	Always on USB-A 3.2 Gen 2 connector
USB-C connector (USB 5Gbps)	USB-C (3.2 Gen 1) connector
USB-C connector (USB 10Gbps)	USB-C (3.2 Gen 2) connector
USB-C connector (USB 20Gbps)	USB 3.2 Gen 2x2
USB-C connector (USB4 20Gbps)	USB 4 Gen 2x2
USB-C connector (USB4 40Gbps)	USB-C (USB 4) connector
USB-C connector (Thunderbolt 3)	USB-C (Thunderbolt 3) connector
USB-C connector (Thunderbolt 4)	USB-C (Thunderbolt 4) connector

Appendix B. Notices and trademarks

Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent programs covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

*Lenovo (United States), Inc.
8001 Development Drive
Morrisville, NC 27560
U.S.A.
Attention: Lenovo Director of Licensing*

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

Changes are made periodically to the information herein; these changes will be incorporated in new editions of the publication. To provide better service, Lenovo reserves the right to improve and/or modify the products and software programs described in the manuals included with your computer, and the content of the manual, at any time without additional notice.

The software interface and function and hardware configuration described in the manuals included with your computer might not match exactly the actual configuration of the computer that you purchase. For the configuration of the product, refer to the related contract (if any) or product packing list, or consult the distributor for the product sales. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

This document is copyrighted by Lenovo and is not covered by any open source license, including any Linux® agreement(s) which may accompany software included with this product. Lenovo may update this document at any time without notice.

For the latest information or any questions or comments, contact or visit the Lenovo Web site:

<https://pcsupport.lenovo.com>

Trademarks

Lenovo, Lenovo logo, Lenovo Legion and Lenovo LEGION logo are trademarks of Lenovo. Intel and Thunderbolt are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. Microsoft and Windows are trademarks of the Microsoft group of companies. DisplayPort is a trademark of the Video Electronics Standards Association. The terms HDMI and HDMI High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. USB4 and USB-C are registered trademarks of USB Implementers Forum. Wi-Fi is a registered trademark of Wi-Fi Alliance. All other trademarks are the property of their respective owners.

Lenovo