

Lenovo ideapad 110

ideapad 110-17ISK

User Guide



Read the safety notices and important tips in the included manuals before using your computer.

Lenovo[™]

Notes

- Before using the product, be sure to read *Lenovo Safety and General Information Guide* first.
- The latest electronic compliance and environmental information are available from the Lenovo compliance information Web sites.
 - To view compliance information go to: <http://www.lenovo.com/compliance>
 - To download environmental information go to: <http://www.lenovo.com/ecodeclaration>
- Some instructions in this guide may assume that you are using Windows® 10. If you are using another Windows operating system, some operations may be slightly different. If you are using other operating systems, some operations may not apply to you.
- The features described in this guide are common to most models. Some features may not be available on your computer or your computer may include features that are not described in this user guide.
- The illustrations in this manual may differ from the actual product. Please refer to the actual product.

Regulatory Notice

- For details, refer to **Guides & Manuals** at <http://support.lenovo.com>.

First Edition (November 2016)

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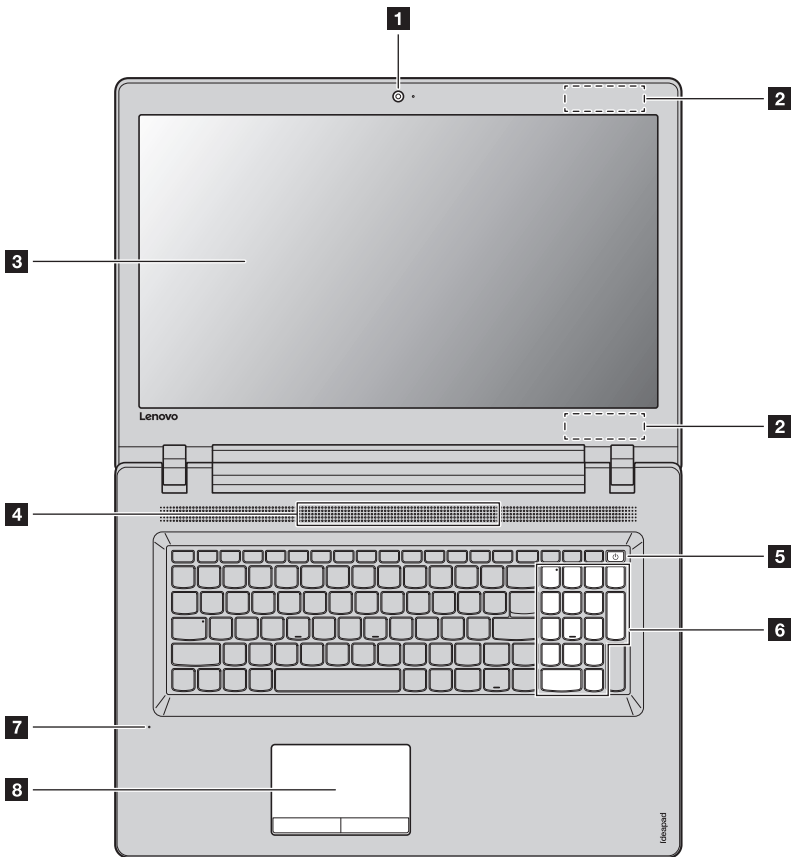
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Chapter 1. Getting to know your computer

■ ■ Top view




Note: The dashed areas indicate parts that are not visible externally.

⦿ **Attention:**

- Do *not* open the display panel beyond 180 degrees. When closing the display panel, be careful *not* to leave pens or any other objects in between the display panel and the keyboard. Otherwise, the display panel may be damaged.

Chapter 1. Getting to know your computer

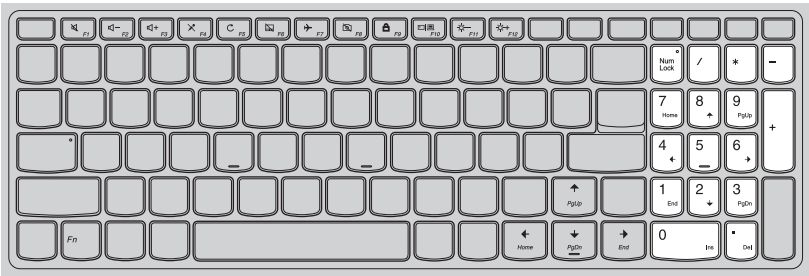
- | | |
|--------------------------------|---|
| 1 Integrated camera | Use the camera for video communication. |
| 2 Wireless LAN antennas | Connect to a wireless LAN adapter to send and receive wireless radio signals. |
| 3 Computer display | Provides brilliant visual output. |
| 4 Speaker | Provides audio output. |
| 5 Power button | Press this button to turn on the computer. |
| 6 Numeric keypad | |
| 7 Built-in microphone | Captures sound which can be used for video conferencing, voice narration, or audio recording. |
| 8 Touchpad | <p>The touchpad functions as a conventional mouse.</p> <p>Touchpad: To move the pointer on the screen, slide your fingertip over the pad in the direction in which you want the pointer to move.</p> <p>Touchpad buttons: The functions of the left/right side correspond to that of the left/right mouse button on a conventional mouse.</p> |

Note: You can enable/disable the touchpad by pressing **F6** ().

■ Using the keyboard

Numeric keypad

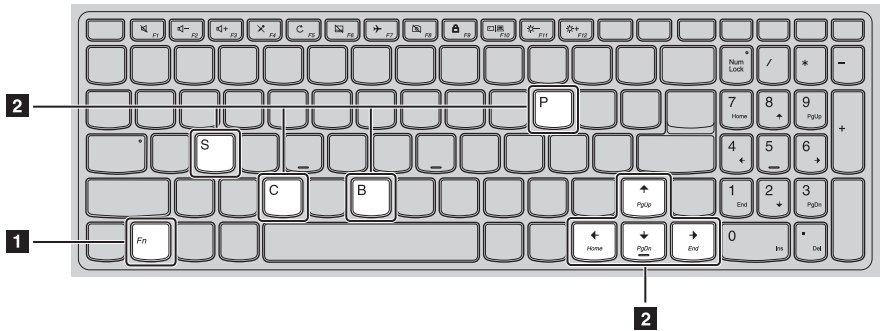
The keyboard has a separate numeric keypad. To enable or disable the numeric keypad, press the **Num Lock** key.



Chapter 1. Getting to know your computer

Function key combinations

Through the use of the function keys, you can change operational features instantly. To use this function, press and hold **Fn** **1**; then press one of the function keys **2**.

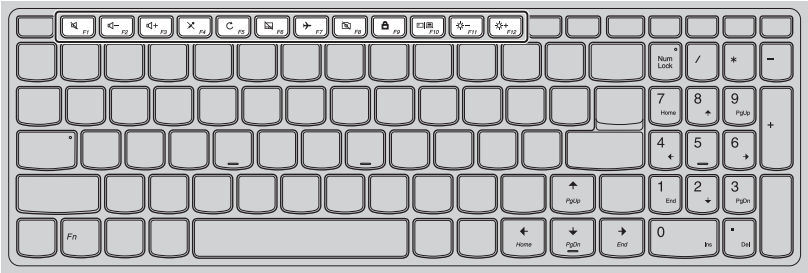














The following describes the features of each function key.

Fn + B:	Activates the break function.
Fn + P:	Activates the pause function.
Fn + C:	Enables/disables the scroll lock.
Fn + S:	Activates the system request.
Fn + ↑:	Activates the Pgup key function.
Fn + ↓:	Activates the Pgdn key function.
Fn + ←:	Activates the home key function.
Fn + →:	Activates the end key function.

Hotkeys

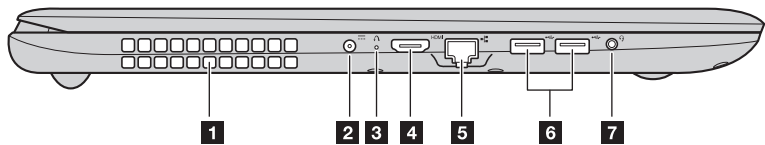
You can access certain system settings quickly by pressing the appropriate hotkeys.



	: Mutes/unmutes the sound.		: Enables/disables Airplane mode.
	: Decreases the volume level.		: Enables/disables the integrated camera.
	: Increases the volume level.		: Locks the screen.
	: Enables/disables the microphone.		: Toggles the display between the computer and an external device.
	: Refreshes the desktop or the currently active window.		: Decreases the display brightness.
	: Enables/disables the touchpad.		: Increases the display brightness.

Note: You can use the Lenovo Setting to enable/disable the hotkey function.

■ ■ Left-side view



- 1

Ventilation slots

Dissipate internal heat.

Note: Make sure that the ventilation slots are not blocked or else the computer may overheat.
- 2

AC power adapter jack

Connects to the AC power adapter.
- 3

Novo button

When the computer is off, press this button to start the recovery system or the BIOS setup utility, or to enter the boot menu.

Notes:
 - You can use the tip of an unfolded paper clip (or similar object without a sharp tip) to gently press the Novo button.
 - For details, see “Recovery system” on page 19.
- 4

HDMI port

Connects to devices with HDMI input such as a TV or an external display.
- 5

RJ-45 port

Connects the computer to an Ethernet network.

Note: For details, see “Connecting network cables” on page 7.
- 6

USB ports

Connect to USB devices.

Note: For details, see “Connecting USB device” on page 8.
- 7

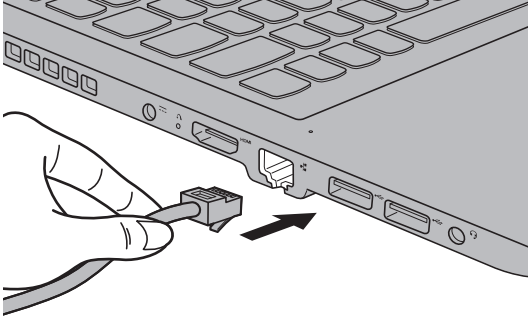
Combo audio jack

Connects to headsets.

Notes:
 - The combo audio jack does not support conventional microphones.
 - The recording function might not be supported if third-party headphones or headsets are connected, due to different industry standards.

■ Connecting network cables

Wired connections are a reliable and safe way to connect the computer to the Internet. You can connect a network cable to your computer.



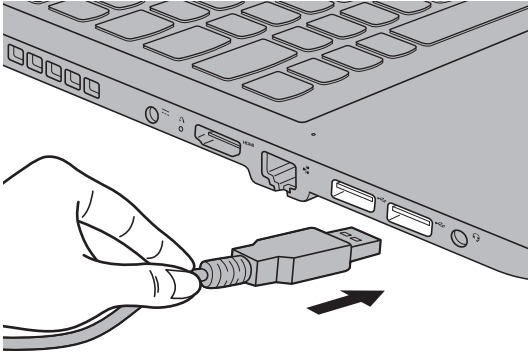
Software configuration

Consult your Internet Service Provider (ISP) for details on how to configure your computer.

Chapter 1. Getting to know your computer

■ Connecting USB device

Your computer comes with two USB ports compatible with USB devices.



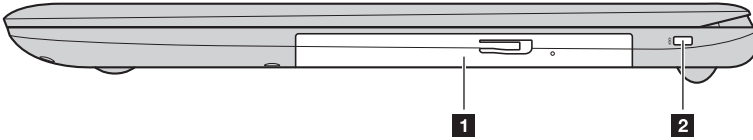
The first time you plug a USB device into a particular USB port on your computer, Windows automatically installs a driver for that device. After the driver has been installed, you can disconnect and reconnect the device without performing any additional steps.

Note: Typically, Windows detects a new device after it has been connected, and then installs the driver automatically. However, some devices may require you to install the driver before connecting. Check the documentation provided by the device's manufacturer before connecting the device.

Before disconnecting a USB storage device, make sure your computer has finished transferring data to that device. Click the **Safely Remove Hardware and Eject Media** icon in the Windows notification area to remove the device before disconnecting.

Note: If your USB device uses a power cord, connect the device to a power source before connecting it. Otherwise, the device may not be recognized.

■ ■ Right-side view



1 Optical drive (on select models)

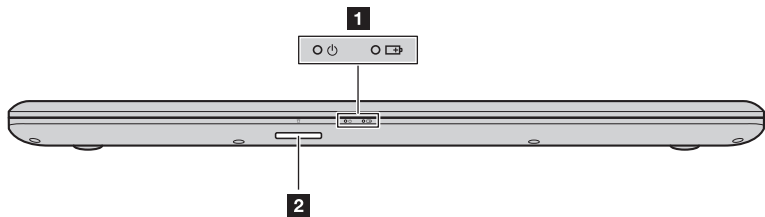
Reads/burns optical discs.

2 Kensington mini security slot

For attaching a Kensington MiniSaver™ Mobile (or compatible) lock.

Note: Lock is not supplied. When purchasing a lock, choose one that utilizes the Cleat™ locking mechanism and verify its compatibility with the slot before purchase. A lock utilizing the T-Bar™ locking mechanism is not compatible with the Kensington mini security slot.



Front view



1 System status indicators

2 Memory card slot Accepts memory cards (not supplied).

Note: For details, see “Using memory cards (not supplied)” on page 11.

Symbol	Indicator	Indicator status	Charge status	Meaning
	Power	On (solid white)	---	The computer is powered on.
		Blinking	---	The computer is in sleep mode.
		Off	---	The computer is powered off.
	Battery	On (solid white)	Charging	The battery has more than 80% charge.
			Discharging	The battery has more than 20% charge.
		On (solid amber)	Discharging	The battery has between 5% and 20% charge.
		Blinking slowly (white)	Charging	The battery has between 20% and 80% charge. When the battery reaches 80% charge, the light will stop blinking. However, charging will continue until the battery is fully charged.
		Blinking slowly (amber)	Charging	The battery has less than 20% charge. When the battery charge reaches 20%, the blinking color will change to white.
		Blinking quickly (amber)	Charging/Discharging	The battery has less than 5% charge.

■ Using memory cards (not supplied)

Your computer supports the following types of memory cards:

- Secure Digital (SD) card
- Secure Digital High Capacity (SDHC) card
- Secure Digital eXtended Capacity (SDXC) card
- MultiMediaCard (MMC)

Notes:

- Insert *only* one card in the slot at a time.
- This card reader does not support SDIO devices (e.g., SDIO Bluetooth, etc.).

Inserting a memory card

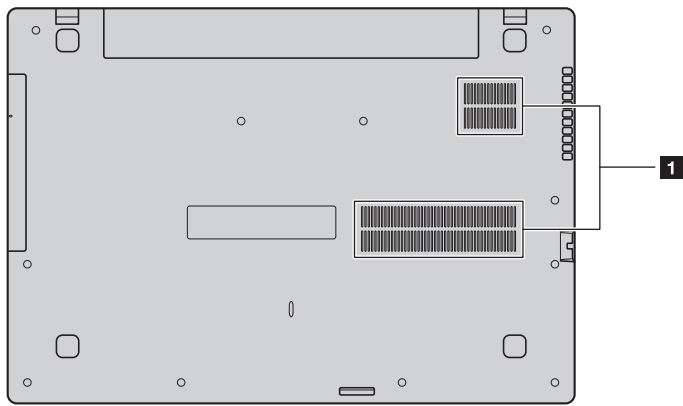
Insert the memory card until it touches the bottom of the slot.

Removing a memory card

Gently pull the memory card out of the memory card slot.

Note: Before removing the memory card, disable it by using the Windows safely remove hardware and eject media utility to avoid data corruption.

■ ■ Bottom view



1 Louvers

Allow air to enter the computer for cooling.

Chapter 2. Starting to use Windows 10

Note: Windows® 10 has an updated version. If you are using the updated version, some operations may be different. Please refer to the actual product.



■ ■ Configuring the operating system for the first time

You may need to configure the operating system when it is first used. The configuration process may include the procedures below:

- Accepting the end user license agreement
- Configuring the Internet connection
- Registering the operating system
- Creating a user account

■ ■ Operating system interface

Windows 10 comes with a powerful and useful start menu. To open the start menu, do one of the following:

- Press the Windows key  on the keyboard.
- Select **Start**  on the lower-left corner of the desktop.



- 1 Get Started app
- 2 Settings button
- 3 Power button


- 4 Start button
- 5 Search box
- 6 Task view button

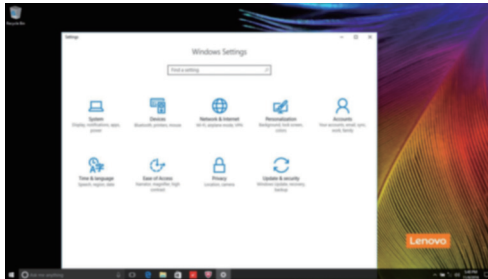
Chapter 2. Starting to use Windows 10

■ Settings

Settings lets you perform basic tasks. You can also search for more settings with the settings search box in the upper-right corner.

To open the settings, do the following:

- Open the start menu, and then select **Settings** .

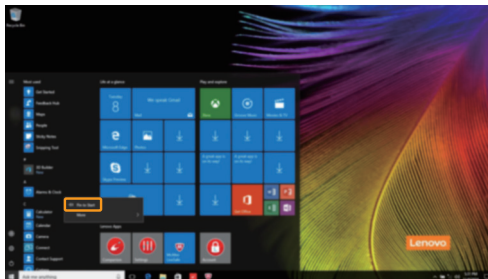


■ Personalize the start menu

You can personalize the start menu with your favorite apps.

To personalize the start menu, do the following:

- ❶ Open the start menu and find the apps list on the left.
- ❷ Right click the app you want to add to the start menu, and then select **Pin to Start**.



Note: You can also drag apps from the apps list to add them to the start menu.


■ ■ Putting the computer to sleep or shutting it down

When you have finished working with your computer, you can put it to sleep or shut it down.

■ Putting your computer to sleep

If you will be away from your computer for only a short time, put the computer to sleep. When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

To put the computer to sleep, do one of the following:

- Close the display lid.
- Press the Power button.
- Open the start menu, and then select **Power**  → **Sleep**.

Note: Wait until the power indicator light starts blinking (indicating that the computer is in sleep mode) before you move your computer. Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data.


To wake the computer, do one of the following:

- Press any key on the keyboard.
- Press the Power button.

Chapter 2. Starting to use Windows 10

■ Shutting down the computer

If you are not going to use your computer for a long time, shut it down. To shut down the computer, do one of the following:

- Open the start menu, and then select **Power**  → **Shut down**.



- Right-click the **Start** button in the lower-left corner and select **Shut down or sign out** → **Shut down**.

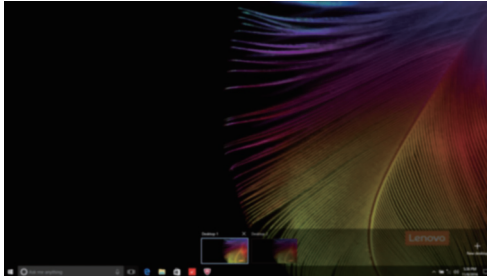


■ ■ Task and desktop management

■ Task view


To open the task view, do one of the following:

- Select the Task view button  on the task bar.
- Press the Windows key  + Tab.






■ Virtual desktop management

Windows 10 supports the ability to create, manage and switch between virtual desktops. To create a new virtual desktop, do one of the following:

- Open the task view, and then select **New desktop**.
- Press the Windows key  + Ctrl + D.

To switch between different desktops, do one of the following:

- Open the task view and select the desktop you want active.
- Press the Windows key  + Ctrl +  /  to scroll through the desktops you've created.

Chapter 3. Recovery system

■ ■ Lenovo OneKey Recovery System

The Lenovo OneKey Recovery System is software designed to back up and restore your computer. You can use it to restore the system partition to its original status in case of a system failure. You can also create user backups for easy restoration as required.

Notes:

- If your computer is preinstalled with a GNU/Linux operating system, OneKey Recovery System is not available.
- To utilize the features of the OneKey Recovery System, your hard disk already includes a hidden partition by default to store the system image file and the OneKey Recovery System program files. This default partition is hidden for security reasons, which explains why the available disk space is less than the stated capacity.

■ Backing up the system partition

You can back up the system partition to an image file. This image file can be used to restore the system partition. To back up the system partition:

- ❶ In Windows, press the Novo button or double-click OneKey Recovery icon to start the Lenovo OneKey Recovery System.
- ❷ Click **System Backup**.
- ❸ Select a back-up location and click **Next** to start the backup.

Notes:

- You can choose a back-up location on the local hard disk drive or an external storage device.
- Remove the removable hard disk drive before starting the Lenovo OneKey Recovery System. Otherwise, data from the removable hard disk drive might be lost.
- The back-up process may take a while.
- The back-up process is only available when Windows can be started normally.

■ Restoring

You can choose to restore the system partition to its original status or to a previously created back-up point. To restore the system partition:

- ❶ In Windows, press the Novo button or double-click OneKey Recovery icon to start the Lenovo OneKey Recovery System.
- ❷ Click **System Recovery**. The computer will restart to the recovery environment.
- ❸ Follow the on-screen instructions to restore the system partition to its original status or to a previously created back-up point.

Notes:

- The recovery process is irreversible. Make sure to back up any data you wish to save on the system partition before starting the recovery process.
- The recovery process may take a while. So be sure to connect the AC power adapter to your computer during the recovery process.
- The above instructions should be followed when Windows can be started normally.

Chapter 3. Recovery system

If Windows cannot be started, then follow the steps below to start the Lenovo OneKey Recovery System:

- ❶ Shut down the computer.
- ❷ Press the Novo button. From **Novo Button Menu**, select **System Recovery** and press Enter.

Notes:

- The Lenovo OneKey Recovery System may not be available on some Lenovo computers with preinstalled Windows. To check your computer, go to **Control Panel** → **Programs** and check whether Lenovo OneKey Recovery is included in the installed programs list.
- If your computer is not preinstalled with Lenovo OneKey Recovery System, see “Reset this PC” on page 20.

■ ■ Reset this PC

■ Introduction

Reset this PC is a built-in recovery tool that enables users to restore their operating system to its original state. This preserves their data and important customizations, without the need to back up their data in advance.

The following **Reset this PC** features are available to users from multiple locations within Windows:

Keep my files

Fixes software problems by reinstalling the factory default configuration. This preserves personal files, and deletes apps and settings.

Remove everything

Prepares the computer for recycling or transfer of ownership. This reinstalls the factory default configuration and returns all user data and applications to the state of their original Out-of-Box Experience (OOBE).

■ Using Reset this PC

Reset this PC can be launched using one of the following methods:

- Novo Menu:
 - Press the Novo button to open the Novo Menu, then select **System Recovery** → **Troubleshoot** → **Reset this PC**.
- Windows PC settings:
 - Windows PC settings → **Update & security** → **Recovery** → **Reset this PC** → select **Start**.

For more instructions, see the Windows Help and Support file on your computer.

Note: If your computer is preinstalled with Lenovo OneKey Recovery System, see “Lenovo OneKey Recovery System” on page 19.

Chapter 4. Troubleshooting

■ ■ Frequently asked questions

This section lists frequently asked questions by category.

■ Finding information

What safety precautions should I follow when using my computer?

Read and follow all safety precautions included in *Lenovo Safety and General Information Guide*.

Note: To view *Lenovo Safety and General Information Guide*, select the **Companion** (or **Lenovo PC Manager**) icon on the taskbar. You can also download it from the Lenovo Support Web site.

What is the address of the Lenovo support Web site?

<http://support.lenovo.com>

Where can I find warranty information?

Visit the Lenovo Support Web site and type the serial number for your computer to look up warranty information.

■ Lenovo preinstalled operating system and software

What is the Lenovo preinstalled operating system?

Some Lenovo computers come with copies of the operating system installed at factory. Lenovo provides computers with preinstalled operating system for your convenience. If you purchased such a computer, you can use your computer out of the box and do not need to install a separate operating system.

What is Lenovo preinstalled software?

This is software (developed by Lenovo or other software vendors) installed and licensed at factory for your convenience. The license for some preinstalled software may be for trial versions. When the trial period expires, you may need to purchase a license if you want to continue to use the software.

Note: If a license agreement is displayed when you first start the software, read the agreement carefully. If you don't accept the terms of the agreement, do not use the software.

When I purchased my computer, it included a copy of Windows. How can I determine whether the copy of Windows is preinstalled by Lenovo?

On the outside of the sales package of your computer, you should find a label containing configuration information for your computer. Check the printed string next to **OS**. If it contains **Windows** or **WIN**, the copy of Windows was preinstalled by Lenovo.

Chapter 4. Troubleshooting

What is the Recovery Partition?

If your computer is preinstalled with any version of Windows 10, the storage device of your computer contains a Recovery Partition. This partition contains the image file of the preinstalled Windows operating system. In cases of system failure, you can use the Lenovo OneKey Recovery System or the Windows Reset feature to restore the operating system to its factory status.

Note: The Recovery Partition is not assigned a drive letter and cannot be accessed through Windows File Explorer.

I uninstalled a preinstalled software, but there is no significant increase in the free drive space.

The copy of Windows running on your computer may be Compact-enabled. For computers with Compact-enabled Windows, the majority of files needed for preinstalled software are installed on the Recovery Partition and won't be deleted through normal uninstallation.

What happens if I attempt to delete or modify the Recovery Partition?

Attention: Do *not* delete or modify the Recovery Partition on a Compact-enabled computer. If the Recovery Partition is deleted or modified, you may not be able to restore Windows to the factory status. For computer models on which Compact is enabled, deleting the Recovery Partition may cause Windows to fail to start.

How can I determine whether the Windows running on my computer is Compact enabled?

Compact technology is normally enabled on copies of Windows 10 Update running on SSD (or eMMC) -only computer models. To check your computer,

- 1 Right-click the Start button in the lower-left corner and select **Disk Management**.
- 2 The Disk Management program starts.

If **Compact** is labeled on the Windows partition, Compact is enabled on your copy of Windows.

Where can I find drivers for the various hardware devices of my computer?

If your computer is preinstalled with a Windows operating system, first check the installation program on the C partition of your hard disk. If you cannot find the drivers for all the hardware devices that you need there, download the drivers from the Lenovo consumer support website.

Note: The Lenovo support Web site contains the latest drivers.

■ Lenovo OneKey Recovery System

Where are the recovery discs?

Your computer did not come with recovery discs. Use the Lenovo OneKey Recovery System if you need to restore the system to its factory status.

What can I do if the back-up process fails?

If you can start the backup but it fails during the back-up process, try the following steps:

- 1 Close all open programs, and then restart the back-up process.
- 2 Check to see if the destination media is damaged. Select another path and then try again.

When do I need to restore the system to its factory status?

Use this feature when the operating system fails to start up. If there is critical data on the system partition, back it up before starting recovery.

When the operating system is running, I press the Novo Button, but the Lenovo OneKey Recovery System is not started.

The Lenovo OneKey Recovery System is not preinstalled on your computer or it has been uninstalled.

Is the Lenovo OneKey Recovery System preinstalled on all Lenovo notebook computers?

No. Lenovo OneKey Recovery System is available only on computers preinstalled with Windows.

Note: The Lenovo OneKey Recovery System may not be available on some Lenovo computers with preinstalled Windows. To check your computer, go to **Control Panel** → **Programs** and check whether Lenovo OneKey Recovery is included in the installed programs list.

■ BIOS setup utility

What is the BIOS setup utility?

The BIOS setup utility is ROM-based software. It communicates basic computer information and provides options for setting boot devices, security, hardware mode, and other preferences.

How can I start the BIOS setup utility?

To start the BIOS setup utility:

- ❶ Shut down the computer.
- ❷ Press the Novo button and then select **BIOS Setup**.

How can I change the boot mode? (on select models)

There are two boot modes: **UEFI First** and **Legacy Support**. To change the boot mode, start the BIOS setup utility and set boot mode to **UEFI First** or **Legacy Support** on the boot menu.

When do I need to change the boot mode? (on select models)

The default boot mode for your computer is **UEFI First** mode. If you need to install a legacy Windows operating system on your computer, you must change the boot mode to **Legacy Support**. The legacy Windows operating system cannot be installed if you don't change the boot mode.

■ Getting help

How can I contact the customer support center?

See “Chapter 3. Getting help and service” of *Lenovo Safety and General Information Guide*.

■ ■ Troubleshooting

Display problems

When I turn on the computer, nothing appears on the screen.

- If the screen is blank, make sure that:
 - The AC power adapter is connected to the computer, and plugged into a working electrical outlet.
 - The computer power is on. (Press the Power button again for confirmation.)
- If these items are properly set, and the screen remains blank, have the computer serviced.

When I turn on the computer, only a white cursor appears on a blank screen.

- Restore backed-up files to your Windows environment or the entire contents of your hard disk to its original factory contents using the recovery system. If you still see only the cursor on the screen, have the computer serviced.

The screen goes blank while the computer is on.

- Your screen saver or power management may be enabled. Do one of the following to exit from the screen saver or to resume from sleep mode:
 - Touch the touchpad.
 - Press any key on the keyboard.
 - Press the Power button.

BIOS password problems

I forgot my password.

- If you forget your user password, ask the system administrator to clear your user password.
- If you forget your hard disk drive password, a Lenovo authorized servicer cannot reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the hard disk drive replaced. Proof of purchase is required, and a fee will be charged for parts and service.
- If you forget your administrator password, a Lenovo authorized servicer cannot reset your password. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the system board replaced. Proof of purchase is required, and a fee will be charged for parts and service.

Sleep problems

The critical low-battery error message appears, and the computer immediately turns off.

- The battery power is getting low. Connect the AC power adapter to the computer.

The computer enters sleep mode immediately after Power-on self-test (POST).

- Make sure that:
 - The battery pack is charged.
 - The operating temperature is within the acceptable range. See “Chapter 2. Use and care Information” in the *Lenovo Safety and General Information Guide*.


Note: If the battery pack is charged and the temperature is within range, have the computer serviced.

The computer does not return from sleep mode, and the computer does not work.

- If your computer is in sleep mode, connect the AC power adapter to the computer, then press any key or the Power button.
- If the system still does not return from sleep mode, stops responding, or cannot be turned off, reset the computer. Unsaved data may be lost. To reset the computer, press and hold the Power button for four seconds or more. If the computer is still not reset, remove the AC power adapter.

Display panel problems

The screen is blank.

- Do the following:
 - If you are using the AC power adapter or the battery pack, and the battery status indicator is on, press **F12** () to make the screen brighter.
 - If the power indicator is blinking, press the Power button to resume from sleep mode.
 - If the problem persists, follow the solution in the next problem “The screen is unreadable or distorted.”

The screen is unreadable or distorted.

- Make sure that:
 - The display device driver is installed correctly.
 - The screen resolution and color quality are correctly set.
 - The monitor type is correct.

Incorrect characters appear on the screen.

- Is the operating system or programs installed correctly? If they are installed and configured correctly, have the computer serviced.

Chapter 4. Troubleshooting

Sound problems

No sound can be heard from the speaker even when the volume is turned up.

- Make sure that:
 - The Mute function is off.
 - The combo audio jack is not being used.
 - Speakers are selected as the playback device.

Battery pack problems

Your computer shuts down before the battery status indicator shows empty.

-or-

Your computer operates after the battery status indicator shows empty.

The computer does not operate with a fully charged battery pack.

- Discharge and recharge the battery pack.
- The surge protector in the battery pack might be active. Turn off the computer for one minute to reset the protector; then turn on the computer again.

A hard disk drive problem

The hard disk drive does not work.

- Make sure that the hard disk drive is included in the **Boot** menu in the BIOS setup utility correctly.

Recovery System problems

Failure to restore system partition to factory default.

- The system partition (e.g. the partition size or the drive capacity of C) has been modified.

Other problems

Your computer does not respond.

- To turn off your computer, press and hold the Power button for four seconds or more. If the computer still does not respond, remove the AC power adapter.
- Your computer might lock when it enters sleep mode during a communication operation. Disable the sleep timer when you are working on the network.

The computer does not start from a device you want.

- See the **Boot** menu of the BIOS setup utility. Make sure that the BIOS setup utility is set so that the computer starts from the device you want.
- Also make sure that the device from which the computer starts is enabled. Make sure that the device is included in the **Boot** menu in the BIOS setup utility correctly.
- While turned off, press the Novo button to select the device you want the computer to start from.

The connected external device does not work.

- Do *not* connect or disconnect any external device cables other than USB while the computer power is on. Otherwise, you might damage your computer.
- When using high power consumption external devices such as an external USB optical disk drive, use an external device power adapter. Otherwise, the device may not be recognized, or the system may shut down as a result.

Appendix A. CRU instructions

Note: The CRU service is only applicable to certain countries.

CAUTION:

Set the built-in battery in Ship Mode before replacing a CRU or sending your computer for service.

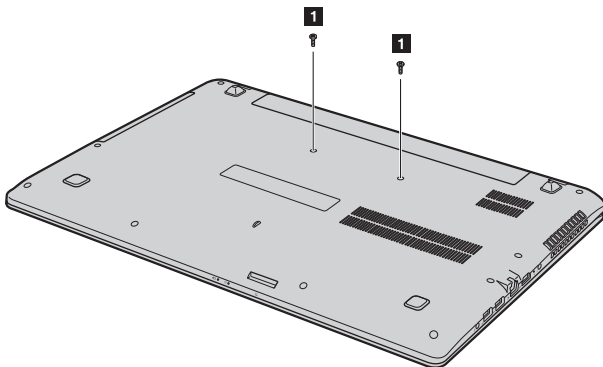
- ❶ Turn off the computer and disconnect the AC adapter.
- ❷ Press **Fn + S + V**.
- ❸ Press the Power button to verify if Ship Mode has been set.

Note: When set in Ship Mode, the battery does not supply power to the computer. To awake the battery from Ship Mode, connect the AC adapter to your computer.

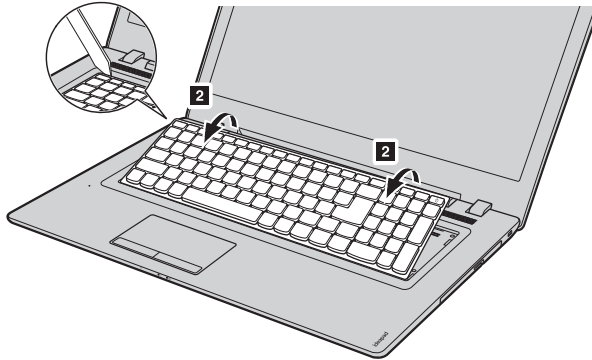
■ ■ Replacing the keyboard

To replace the keyboard, do the following:

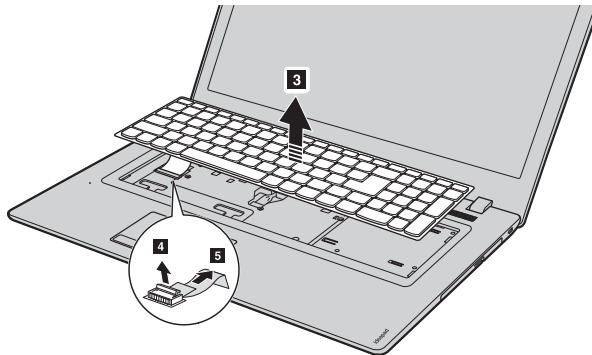
- ❶ Turn off the computer; then disconnect the AC power adapter and all cables from the computer.
- ❷ Close the computer display, and then turn the computer over.
- ❸ Remove the screws that secure the keyboard ❶.



- ④ Loosen the keyboard with a prying tool ②.



- ⑤ Lift the keyboard slightly ③. Disconnect the keyboard connector in the direction shown by arrows ④ and ⑤. Then remove the keyboard.



- ⑥ Reconnect the keyboard connector and install the new keyboard. Push the keyboard in gently until it clicks into place.

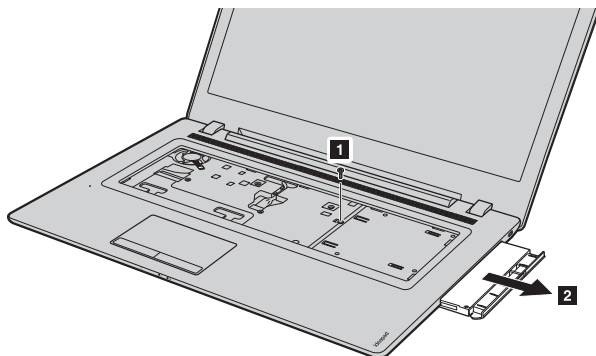
Note: Make sure that the keyboard connector is attached firmly.

- ⑦ Close the computer display and turn the computer over.
- ⑧ Reinstall and tighten the screws.
- ⑨ Reinstall the compartment cover and tighten the screws.
- ⑩ Turn the computer over again.
- ⑪ Connect the AC power adapter and the cables to the computer.

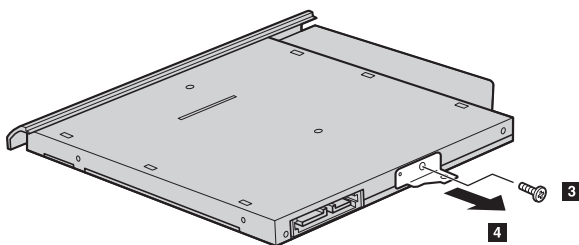
■ ■ Removing the optical drive

To remove the optical drive, do the following:

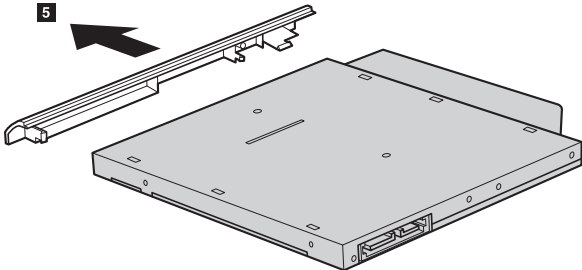
- ❶ Remove the keyboard. For details, see “Replacing the keyboard” on page 28.
- ❷ Remove the screw shown in the illustration **❶**.
- ❸ Gently pull the optical drive out **❷**.



- ❹ Remove the screw **❸**, then remove the optical drive bracket in the direction shown by arrow **❹**.



- 5 Carefully remove the optical drive bezel in the direction shown by arrow 5.



The following table provides a list of CRUs (Customer Replaceable Units) for your computer and informs you of where to find replacement instructions.

	Safety, Warranty, and Setup Guide	User Guide
AC power adapter	O	
Keyboard		O
Optical drive		O

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