

User Guide



Lenovo

Lenovo Googlebook 15

Read this first

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

- *Safety and Warranty Guide*
- *Setup Guide*
- *[Generic Safety and Compliance Notices](#)*

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Discover your Googlebook

Thank you for choosing a Lenovo® Googlebook™! We are dedicated to delivering the best solution to you.

Before starting your tour, please read the following information:

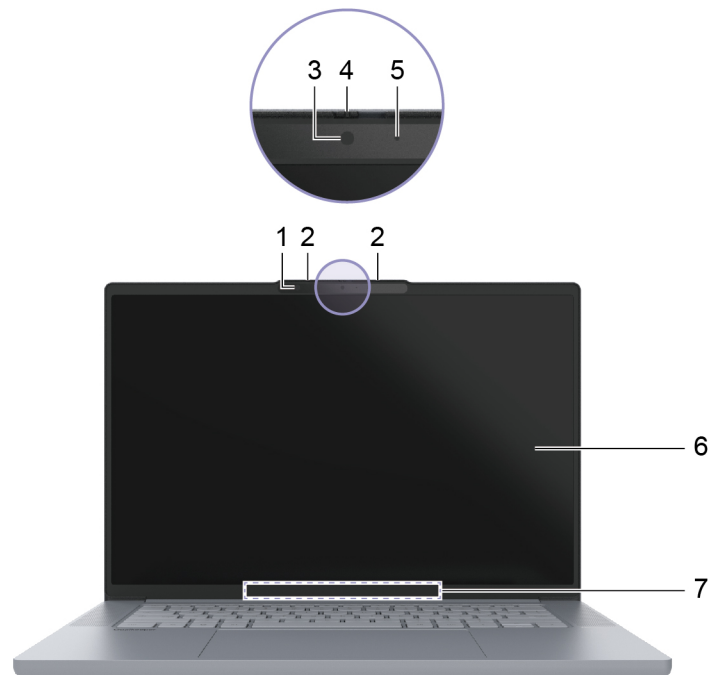
- This guide applies to Lenovo product model(s) listed below. Illustrations in this guide may look slightly different from your product model.

Model name	Machine type (MT)
Lenovo GB 15IPH12	83W6

- 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, software programs, and user interface instructions might not be applicable to your Googlebook.
- Documentation content is subject to change without notice. To get the latest documentation, go to <https://pcsupport.lenovo.com>.

Chapter 1 Meet your Googlebook

Front

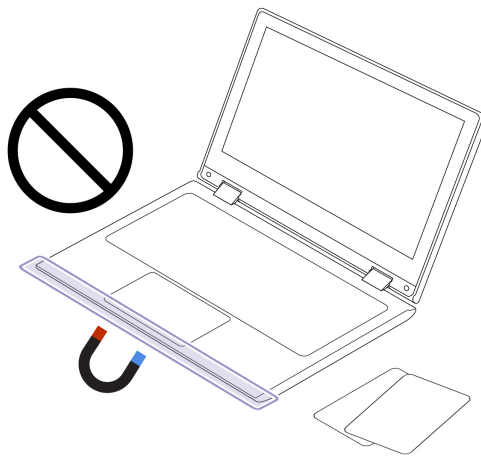


No.	Description
1. Ambient light sensor (ALS)	Detect the surrounding light intensity and adjust the brightness of the built-in screen accordingly.
2. Microphones	Capture or record sound and voice.
3. Camera	Capture still and moving images for taking photos, recording videos, and video chatting.
4. Camera cover	Cover or uncover the camera lens.  Note: The camera cover helps you better protect your privacy.
5. Camera light	If the light is on, the camera is in use.
6. Screen	Display text, graphics, and videos. Support multi-touch function.

No.	Description
7. Antennas	Send and receive radio waves for the built-in wireless local area network (LAN) and Bluetooth module. Note: The antennas are not visible from the outside of the Googlebook.

Important information

Your Googlebook contains magnets. Keep a safe distance away from devices and objects that might be affected by magnets, such as credit cards.



Base



No.	Description
1. Fingerprint reader	Enroll and read your fingerprint for user authentication.
2. Speakers	Produce sound.
3. Keyboard	Enter characters and interact with programs.  Note: The keyboard also includes function keys and key combinations for changing settings and performing tasks quickly.
4. Haptic touchpad	Perform finger touch and all the functions of a traditional mouse.  Note: The haptic touchpad also supports multi-touch function.

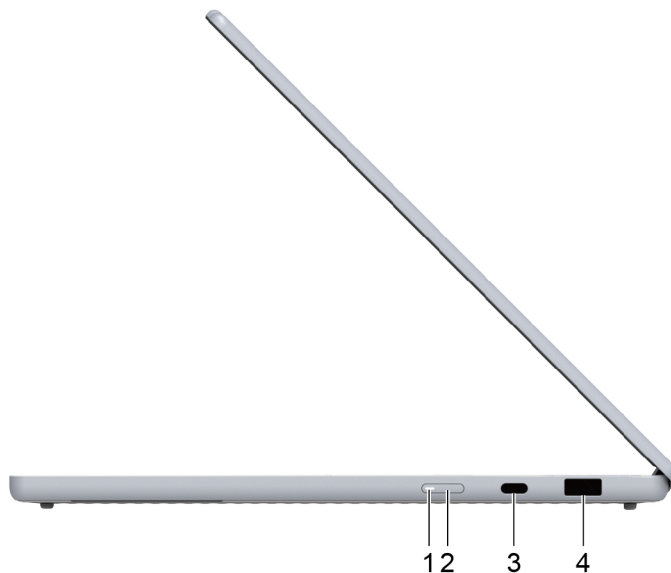
Left



No.	Description
1. HDMI™ connector	Connect to a compatible digital audio device or video monitor, such as an HDTV.
2. Charging light	Indicate the ac power status and the battery status. See AC power status indicator behavior on page 13.
3. Multi-purpose USB Type-C® connector	This USB Type-C connector is the Googlebook’s power input connector. Use the included power adapter and this connector to supply power to the Googlebook. Note: This multi-purpose USB Type-C connector complies with the USB Power Delivery specification. If your Googlebook is sold without an included ac power adapter, you can reuse an existing USB Power Delivery-capable charger or purchase one separately. Refer to the specifications section in this publication for the minimum and maximum negotiable power levels supported by this connector. When this connector is not used by the included power adapter, it can also be used to connect: - Storage or peripheral devices that follow the universal serial bus (USB) specification for data transfer and device interconnection - Display devices

No.	Description
	<i>i</i> Note: When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device. Thunderbolt™-enabled docks or devices
4. Combo audio jack	Connect headphones or headsets with a 3.5 mm (0.14 inch), 4-pole plug. <i>i</i> Note: This jack does not support standalone external microphones. If you use headsets, choose one with a single plug.

Right



No.	Description
1. Power light	- On: the Googlebook is turned on. - Off: the Googlebook is turned off or in hibernation mode. - Blinking: the Googlebook is in sleep mode.

No.	Description
2. Power button	Press the button to turn on the Googlebook or put the Googlebook into sleep mode. Note: When you finish working with your Googlebook, shut it down to save power. - Click  in the system tray. - Press the power button.
3. Multi-purpose USB Type-C connector	This USB Type-C connector is the Googlebook's power input connector. Use the included power adapter and this connector to supply power to the Googlebook. Note: This multi-purpose USB Type-C connector complies with the USB Power Delivery specification. If your Googlebook is sold without an included ac power adapter, you can reuse an existing USB Power Delivery-capable charger or purchase one separately. Refer to the specifications section in this publication for the minimum and maximum negotiable power levels supported by this connector. When this connector is not used by the included power adapter, it can also be used to connect: - Storage or peripheral devices that follow the universal serial bus (USB) specification for data transfer and device interconnection - Display devices Note: When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device. - Thunderbolt-enabled docks or devices
4. USB (3.2 Gen 1) Type-A connector	Connect a USB-compatible device, such as a USB keyboard, a USB mouse, a USB storage device, or a USB printer.

Top



No.	Description
1. Glowbar	Indicate the power and battery status of your Googlebook. • Off: - Googlebook is off - The battery is less than 20% - Charge error • Solid white: Googlebook is connected to a power source or the battery level is no less than 20%. i Note: The brightness level of the glowbar decreases or increases along with screen brightness.

Bottom



No.	Description
1. Speakers	Produce sound.

Specifications

Dimensions

Item	Value or specification
Width	341 mm (13.43 inches)
Depth	236 mm (9.3 inches)
Thickness	15.95 mm (0.63 inches)

ac power adapter

Item	Value or specification
Input	100 V ac–240 V ac, 50 Hz–60 Hz
Output voltage	20 V
Maximum current	3.25 A
Maximum power	65 W



Note:

The Googlebook is available in certain countries or regions without an included ac power adapter.

Rechargeable battery pack

Item	Value or specification
Capacity	70 Wh
Cell type	Rechargeable Li-ion Battery
Number of cells	4

Memory

Item	Value or specification
Type	On-board low power double data rate 5 (LPDDR5)
Installation	On-board

Mass storage device

Item	Value or specification
Type	Solid-state drive
Slot interface	M.2

Display

Item	Value or specification
Size	388.6 mm (15.3 inches)
Resolution	2880 × 1800 pixels
Maximum refresh rate	120 Hz
Screen type	OLED

Connectors and slots

Item	Value or specification
USB Standard-A connector	• Quantity: 1 • Power level (output) - Voltage: 5 V - Maximum current: 0.9 A • Data protocol - USB 2.0 480 Mbps - SuperSpeed USB 5 Gbps

Item	Value or specification
Multi-purpose USB Type-C connector	• Quantity: 2 • Power level - Output - Voltage: 5 V - Maximum current: 3 A - Input (USB Power Delivery) - Minimum: 45 W (20 V, 2.25 A) - Maximum: 65 W (20 V, 3.25 A) i Note: The minimum power represents the lowest acceptable power level to keep the Googlebook operational and initiate charging of the internal battery, while the maximum power allows for the fastest charging speed. Both power levels are negotiated according to the protocols specified in the <i>USB Power Delivery Specification</i>. • Data protocol - USB 2.0 480 Mbps - SuperSpeed USB 5 Gbps - SuperSpeed USB 10 Gbps - USB4® 20 Gbps - USB4 40 Gbps - Thunderbolt 4 41.25 Gbps - DisplayPort - Maximum output resolution : 7680 × 4320 @ 60 Hz
HDMI connector	• Data protocol: Transition minimized differential signaling (TMDS) • Maximum output resolution: - 3840 × 2160 @ 60 Hz
Audio jack	• Diameter: 3.5 mm • Supported plug: - 3-pole, TRS - 4-pole, TRRS (CTIA and OMTP)

i Note:

Data transmission rates are presented as maximum theoretical values in compliance with applicable specifications. The actual data transmission rates depend on various factors, including the performance of the connected devices and the quality of the cables being used. These rates are typically slower than the maximum theoretical values listed.

Networking

Item	Value or specification
Wi-Fi	• 802.11a/b/g • 802.11n • 802.11ac • 802.11ax (Wi-Fi 6) • 802.11be (Wi-Fi 7)  Note: Different Wi-Fi standards may operate on different frequency bands. In some countries or regions, certain frequency bands may be prohibited for unlicensed use or may require specific conditions. Wi-Fi 6E and Wi-Fi 7 on this Googlebook are disabled in some countries or regions in accordance with local regulations.
Bluetooth	Bluetooth 5.4

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)
2.0	0.48
USB 3.2 Gen 1	5
Thunderbolt 4	41.25

Tips for selecting a certified charger

When selecting or reusing a third-party USB Type-C charger for this Googlebook, choose a product that is safety-approved or certified.



Attention:

An uncertified charger may damage your Googlebook or pose an electrical hazard.

In many countries and regions, manufacturers or importers of electric chargers can submit their products to certification authorities or approved and recognized testing laboratories. These products typically bear a mark indicating that they meet the relevant quality and safety standards. In some countries and regions, this certification process is mandatory.

If you live in mainland China, choose a charger with the "CCC" mark. For users in many European countries, select one with the "CE" mark. For users in the United States and Canada, choose a

charger listed by one of the Nationally Recognized Testing Laboratories (for example, the "UL Listed" mark). For people living in other countries or regions, consult a qualified electrical engineer to learn how to select a safety-approved electric charger.

Operating environment

Maximum altitude (without pressurization)

3048 m (10 000 ft)

Temperature

- Operating: 5°C to 35°C (41°F to 95°F)
- Storage: 5°C to 43°C (41°F to 109°F)



Note:

When you charge the battery, its temperature must be no lower than 10°C (50°F).

Relative humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

Chapter 2 Get started with your Googlebook

Charge your Googlebook

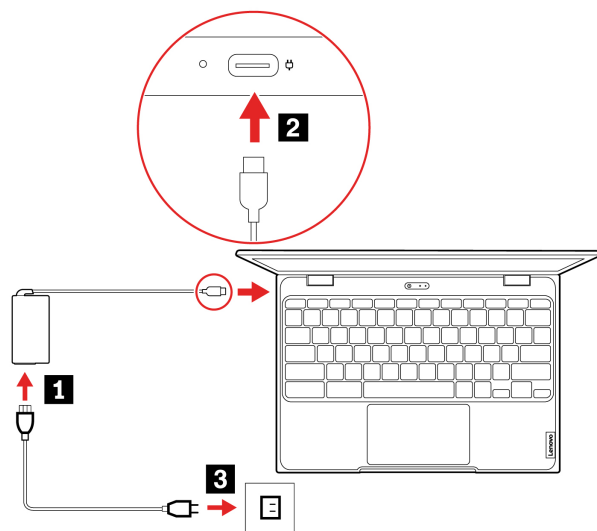
The USB Type-C connector on your Googlebook works as the power connector. Plug in the ac power adapter to charge the built-in battery pack and provide power to the Googlebook.

Connect to ac power



CAUTION:

All plugs must be firmly and securely inserted into receptacles.



1. Connect the power cord to the ac power adapter.
2. Plug the power adapter into the USB Type-C connector of the Googlebook.
3. Plug the power cord into an electrical outlet.

AC power status indicator behavior

The ac power status indicator is next to the USB Type-C connector. The following table shows the indicator behaviors and the indicated power and battery status.

AC power status indicator	Power status	Battery status
on (red)	plugged in	being charged, remaining power is less than 5%
on (amber)	plugged in	being charged, remaining power is between 5% and 97%
on (green)	plugged in	fully charged (97% to 100%)
off	unplugged	discharging

Connect to Wi-Fi

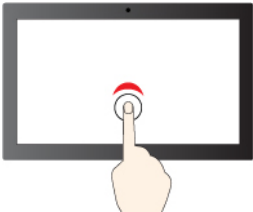
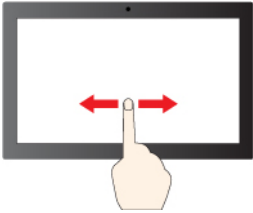
To connect your Googlebook to Wi-Fi:

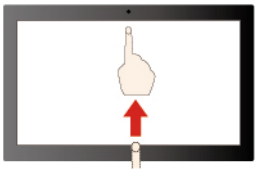
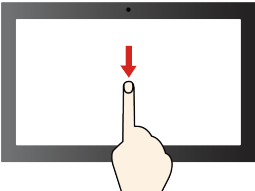
- 1. Click your system tray.
- 2. Click the network icon and turn on the wireless feature.
- 3. Select an available network to connect. Provide required information if needed.

Use the touch screen

If your Googlebook display supports the multi-touch function, you can navigate the screen with simple touch gestures.

 **Note:**
Some gestures might not be available depending on the app you use.

Action	Gestures
	Tap once to single click
	Tap and hold to right-click
	Slide to scroll through items
	Drag

Action	Gestures
	Swipe upwards to unfold the app Launcher
	Swipe downwards to open Overview menu

Maintenance tips:

- Turn off the Googlebook before cleaning the multi-touch screen.
- Use a dry, soft, and lint-free cloth or a piece of absorbent cotton to remove fingerprints or dust from the multi-touch screen. Do not apply solvents to the cloth.
- The multi-touch screen is a glass panel covered with a plastic film. Do not apply pressure or place any metallic object on the screen, which might damage the touch panel or cause it to malfunction.
- Do not use fingernails, gloved fingers, or inanimate objects for input on the screen.
- Regularly calibrate the accuracy of the finger input to avoid a discrepancy.

Use the keyboard shortcuts

The function keys on the keyboard help you work more easily and effectively.

Shortcut	Action
◀	Go to the previous page
○	Reload your current page
□	Hide the tabs and the App Launcher in full-screen mode
▣	Display the current app in full-screen mode
⚙	Decrease the brightness of the Googlebook screen
⚙	Increase the brightness of the Googlebook screen
⚡	Turn on/off the keyboard backlight
🔇	Mute/Unmute the microphones

Shortcut	Action
	Mute/Unmute the speakers
	Decrease the volume
	Increase the volume
	Turn on dictation
	Quickly insert links and files to your context
	Open the App Launcher

Your Googlebook also supports some key combinations.

Shortcut	Action
fn + 	Switch the Caps Lock function
 + l	Lock your Googlebook screen
 + ctrl + s	View all keyboard shortcuts
*alt + 	Turn off the keyboard backlight and decrease the brightness
*alt + 	Turn on the keyboard backlight and increase the brightness

* for selected models

To change the keyboard settings:

1. Click the setting icon in the system tray, and then click **Device > Keyboard**.
2. Follow the on-screen instructions to change the settings as you prefer.

Use the haptic touchpad

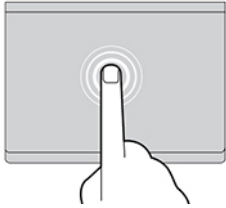
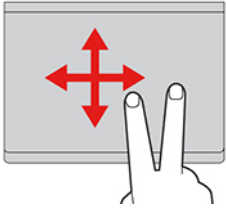
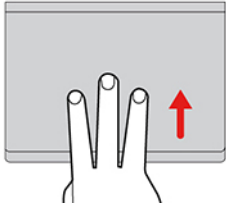
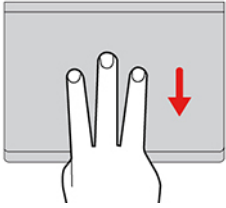
The entire haptic touchpad surface is sensitive to finger touch and movement. You can use the haptic touchpad to perform all the pointing, clicking, and scrolling functions of a traditional mouse.

Use the touch gestures



Note:

- When using two or more fingers, ensure that you position your fingers slightly apart.
- Some gestures are only available when you are using certain apps.
- If the haptic touchpad surface is stained with oil, turn off the Googlebook first. Then, gently wipe the haptic touchpad surface with a soft and lint-free cloth moistened with lukewarm water or Googlebook cleaner.

Gestures	
 Tap once to select or open an item.	 Scroll through items.
 Open the task view.	 Show notifications.

To change the settings:

1. Click the setting icon in the system tray, and then click **Device > Haptic touchpad**.
2. Follow the on-screen instructions to change the settings as you prefer.

If **Tap to click** is turned on, you can tap or press the haptic touchpad. Otherwise, you can only press the haptic touchpad to achieve the clicking function of a traditional mouse.

Use the camera

The built-in camera can be used for video calling or video conferencing. The indicator next to the camera turns on when the camera is activated.

To take photos with the camera:

1. Click the Launcher button.
2. Click **Camera** and take photos.

Use audio

You can connect headphones or a headset with a 3.5-mm (0.14-inch), 4-pole plug to the audio connector to listen to the sound from your Googlebook.

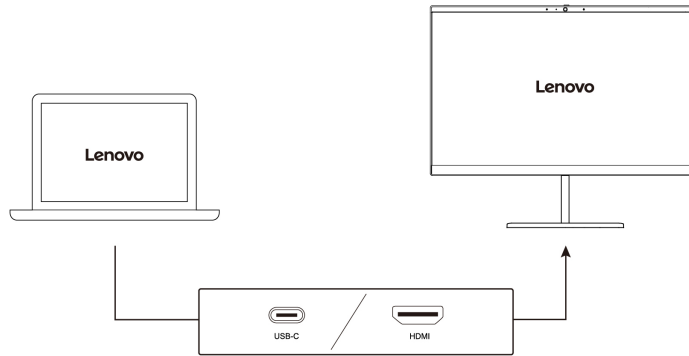
To play a saved audio or video:

1. Click the Launcher button, and then select **Files**.
2. Double-click a file to open it in the media player.

To adjust the volume, click the system tray, and then adjust the volume as you prefer.

Connect to an external display

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



Supported resolution

The following table lists the supported maximum resolution of the external display.

Connect the external display to	Supported resolution
Multi-purpose USB Type-C connector	Up to 3840 x 2160 pixels @ 60 Hz
HDMI connector	Up to 3840 x 2160 pixels @ 60 Hz

To change display settings:

1. Click the setting icon in the system tray, and then click **Device > Display**.
2. Follow the on-screen instructions to change the display settings as you prefer.

Connect to Bluetooth devices

Your Googlebook supports Bluetooth feature. You can connect your Googlebook to a Bluetooth keyboard, mouse, speakers, or other Bluetooth devices.

i Note:

The Bluetooth devices must be within a short distance, usually 10 meters (33 feet), from the Googlebook.

1. Click your system tray, and then click the Bluetooth icon.
2. Turn on **Bluetooth**.
3. Select the device you want to pair and follow the on-screen instructions.

Set the power plan

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

Table 1: Default power plan (when plugged into ac power)

Default power plan (when plugged into ac power)
• Turn off the display: After one minute • Put the Googlebook into sleep: After one minute

To reset the power plan to achieve the best balance between performance and power saving:

1. Click the setting icon in the system tray, and then click **Device > Display > Screen timeout**.
2. Follow the on-screen instructions to change the settings as you prefer.

Data erasure for reusing or recycling a Googlebook

It is advisable to reuse or recycle your Googlebook when it is no longer needed. Options include selling, donating, or using a reputable recycling service. Proper reuse and recycling of a Googlebook can help minimize its environmental impact.

When reusing or recycling a Googlebook, data security is a major concern due to the potential storage of personal and sensitive information. Before selling, donating, or recycling your Googlebook, it is essential to erase all personal data from its storage device to protect your privacy and prevent security breaches.

Data may be stored in the following media:

- Solid-state drive
- Hard disk drive
- eMMC
- nano-SIM card
- UFS (Universal flash storage)
- NAND Flash
- Trusted Platform Module (TPM)
- Wireless WAN card

Reset Googlebook

On your Googlebook, navigate to **Settings > System > Reset options**.

Reset Bluetooth and Wi-Fi

Select this option to reset all Wi-Fi and Bluetooth settings. You cannot undo this action.

Reset app preferences

This will reset all preferences for:

- Disabled apps
- Disabled app notifications
- Default applications for actions
- Background data restrictions for apps
- Any permission restrictions
- Battery usage settings

Erase all data (factory reset)

A factory reset erases all user data on your Googlebook's hard drive, including all the files in the Downloads folder. Before you reset, make sure to back up your files and data.

Chapter 3 CRU replacement

Customer Replaceable Units (CRUs) are parts that can be replaced by the customer. The Googlebooks 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 a 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.

What are CRUs

Refer to the following CRU list for your Googlebook.

Self-service CRUs

- Power adapter*

Optional-service CRUs

- Base cover assembly
- Battery
- Speaker

* for selected models

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.

CRU replacement

Customer Replaceable Units (CRUs) are parts that can be replaced by the customer. The Googlebooks 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 a 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.

Replace a CRU

Follow the replacement procedure to replace a CRU.

Base cover assembly

Prerequisite

Before you start, read [Generic Safety and Compliance Notices](#) and print the following instructions.

Note:

Do not remove the base cover assembly when your Googlebook is connected to ac power.

For access, do the following:

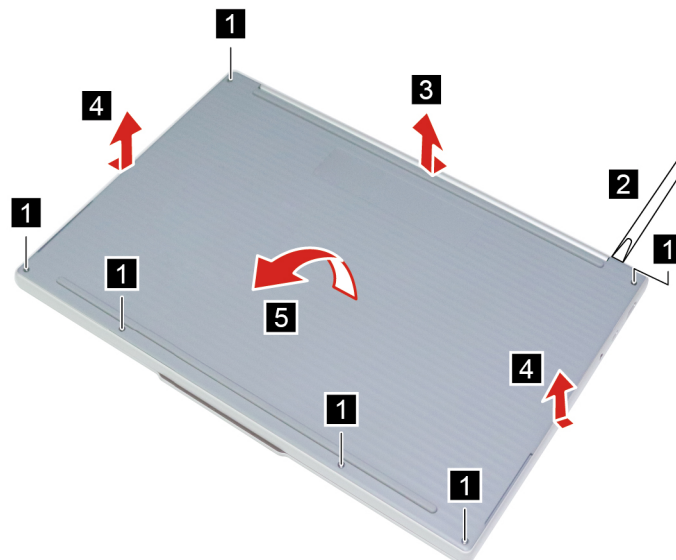
1. Disable the built-in battery. Press  together with the power button for about five seconds, and at the same time detach the ac power adapter from the Googlebook.

Note:

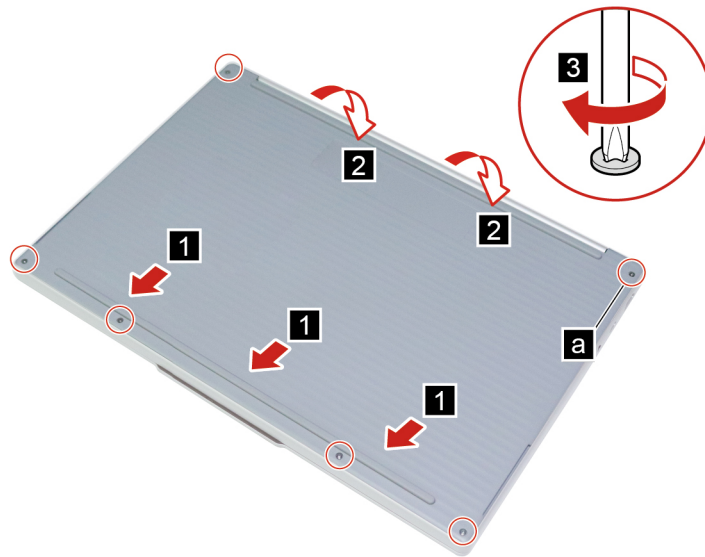
Power supply from the built-in battery will resume after you reconnect the Googlebook to the ac power adapter.

2. Close the Googlebook display and turn over the Googlebook.

Removal procedures



Installation procedures



Note:

When you tighten the screw **a**, the gap will be closed. Do not push down the screw **a**, otherwise it might be damaged.

Troubleshooting

If the Googlebook does not start up after you reinstall the base cover assembly, disconnect the ac power adapter and then reconnect it to the Googlebook.

Battery

Prerequisite

Before you start, read [Generic Safety and Compliance Notices](#) and print the following instructions.

Note:

Do not remove the base cover assembly when your Googlebook is connected to ac power.

For access, do the following:

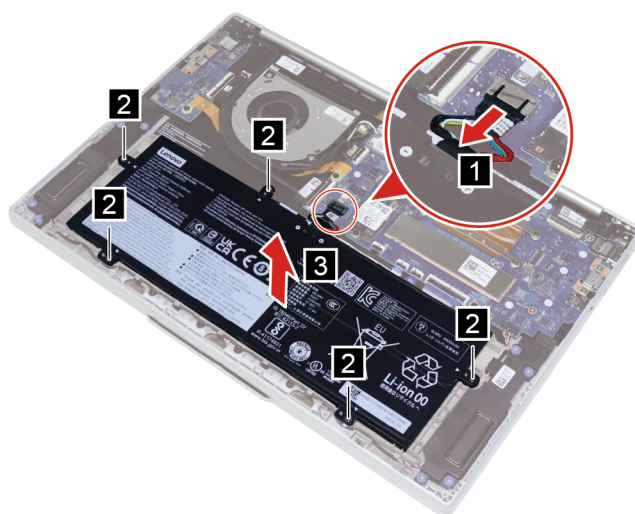
1. Disable the built-in battery. Press **⌘** together with the power button for about five seconds, and at the same time detach the ac power adapter from the Googlebook.

Note:

Power supply from the built-in battery will resume after you reconnect the Googlebook to the ac power adapter.

2. Close the Googlebook display and turn over the Googlebook.
3. Remove the base cover assembly. See [Base cover assembly](#) on page 22.

Removal procedures



Troubleshooting

If the Googlebook does not start up after you reinstall the base cover assembly, disconnect the ac power adapter and then reconnect it to the Googlebook.

Speaker

Prerequisite

Before you start, read [Generic Safety and Compliance Notices](#) and print the following instructions.

Note:

Do not remove the base cover assembly when your Googlebook is connected to ac power.

For access, do the following:

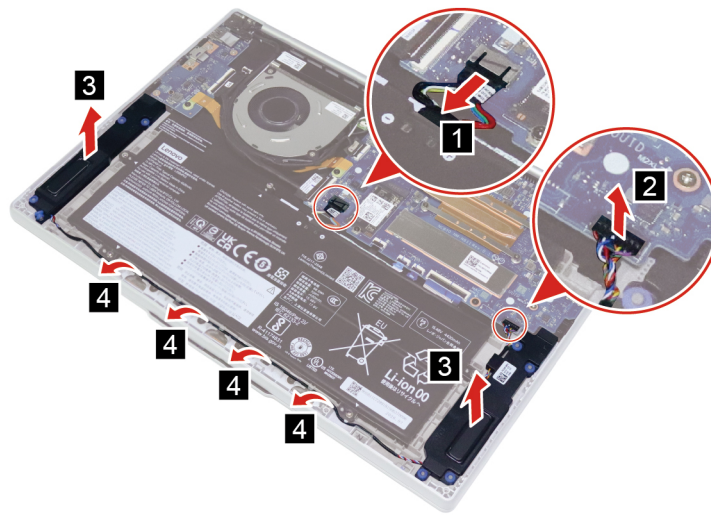
1. Disable the built-in battery. Press **C** together with the power button for about five seconds, and at the same time detach the ac power adapter from the Googlebook.

Note:

Power supply from the built-in battery will resume after you reconnect the Googlebook to the ac power adapter.

2. Close the Googlebook display and turn over the Googlebook.
3. Remove the base cover assembly. See [Base cover assembly](#) on page 22.

Removal procedures



Troubleshooting

If the Googlebook does not start up after you reinstall the base cover assembly, disconnect the ac power adapter and then reconnect it to the Googlebook.

Chapter 4 Help and support

Frequently asked questions

Question	Solution
What do I do if my Googlebook stops responding?	1. Press and hold the power button until the Googlebook turns off. Then, restart the Googlebook. 2. If step 1 does not work: • For models with an emergency reset hole: Insert a straightened paper clip into the emergency reset hole to cut off power supply temporarily. Then, restart the Googlebook with ac power connected. • For models without an emergency reset hole: - For models with the removable battery, remove the removable battery and disconnect all power sources. Then, reconnect to ac power and restart the Googlebook. - For models with the built-in battery, disconnect all power sources. Press and hold the power button for about seven seconds. Then, reconnect to ac power and restart the Googlebook.
What do I do if I spill liquid on the Googlebook?	1. Carefully unplug the ac power adapter and turn off the Googlebook immediately. The more quickly you stop the current from passing through the Googlebook the more likely you will reduce damage from short circuits.  Attention: Although you might lose some data or work by turning off the Googlebook immediately, leaving the Googlebook on might make your Googlebook unusable. 2. Do not try to drain out the liquid by turning over the Googlebook. If your Googlebook has keyboard drainage holes on the bottom, the liquid will be drained out through the holes. 3. Wait until you are certain that all the liquid is dry before turning on your Googlebook.
How do I disinfect my Googlebook?	1. Squeeze out excess liquid from wipe or disinfecting cloth before using. Recommended wipes are hydrogen peroxide wipes and alcohol based wipes. Do not use wipes containing sodium hypochlorite (bleach). 2. Gently wipe the Googlebook thoroughly, being careful to ensure no liquid drips into the Googlebook. Do not wipe on connector pins. 3. After disinfecting, follow the cleaning procedure from the wipe supplier to minimize chemical buildup of disinfectant residue.

Question	Solution
	4. Always allow the Googlebook to completely dry prior to any use. For more information about cleaning and disinfecting, go to https://support.lenovo.com/in/en/solutions/ht035676.
How do I find accessibility information?	https://www.lenovo.com/accessibility

Lenovo Customer Support Center

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

Before you contact Lenovo

Record product information and problem details before you contact Lenovo.

Product information	Problem symptoms and details
- Product name - Machine type and serial number	- 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?

Note:

The product name and serial number can usually be found on the bottom of the Googlebook, either printed on a label or etched on the cover.

Telephone numbers

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

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, go to:

- https://www.lenovo.com/warranty/llw_02
- <https://pcsupport.lenovo.com/warrantylookup>

Tips from Google

After signing in to your Googlebook, start Tips from the App Launcher. The Tips app provides comprehensive instructions on using your Googlebook.

In addition, if you are interested in visiting the Googlebook Help Center and Community, go to <http://support.google.com/Googlebook>.

Chapter 5 Googlebook and accessibility

With a Googlebook, you can access information, connect with friends, pursue education, conduct research, and complete work tasks. This reliance extends to individuals with vision, hearing, cognitive, or mobility impairments, as well as to those whose abilities may decline due to illness or aging.

This chapter explores the accessibility features available on your Lenovo Googlebook, including both hardware components and those offered by the pre-installed operating system. By gaining a comprehensive understanding of the available accessibility features and how to activate and configure them, you can enhance your Googlebook's usability for individuals with disabilities.

Accessibility features of the Googlebook hardware

Lenovo Googlebooks are designed with accessibility in mind. Throughout the design process, special considerations are prioritized for individuals with disabilities and best industry practices are implemented in hardware design.

USB connectors for connecting assistive technology devices

Several types of assistive technology devices are available on the market that can be connected to a Googlebook to enhance its accessibility. For example, a refreshable braille display is an assistive technology device that enables individuals who are both deaf and blind to use a Googlebook. When connected to a Googlebook, a refreshable braille display can work in conjunction with a compatible screen reader to provide tactile output in braille characters. Blind individuals who have been trained to read braille can run their fingers over the display to comprehend the information presented on the Googlebook.

Many assistive technology devices utilize USB technology for connectivity. Most Lenovo Googlebooks are equipped with at least one USB connector that adheres to the relevant USB specifications and is backward compatible. A Lenovo Googlebook may feature a USB Standard-A connector, a USB Type-C connector, or both. If the plug type of the assistive technology device does not match the USB connector on your Googlebook, you can easily purchase and use a USB adapter to resolve the issue.

Keyboard accessibility

The keyboard serves as the primary input device for many Googlebook users. Googlebook keyboards are designed and manufactured with accessibility in mind. This section highlights the accessibility features of the keyboards that benefit all users, including those with disabilities.

Keyboard layout

The alphabetic keys on a Googlebook keyboard are arranged in a qwerty layout, which is standard for input devices featuring alphabetic keys. The f and j keys have bumps that make them tactilely distinguishable from other keys. This feature serves as an orientation aid for skilled typists, allowing them to rest their index fingers without looking at the keys. Some Googlebook keyboards include a separate numeric keypad. The numeric keys are organized in four rows and three columns, arranging in ascending order from left to right and bottom to top. Additionally, the 5 key features a bump to make it tactilely distinguishable.

Standard modifier keys

Googlebook keyboards are equipped with standard modifier keys, including:

- the Alt key
- the Ctrl key
- the Shift key
- the Action key

These keys are extensively used as the modifier key for shortcuts by the operating system and other applications.

The Tab key

The Tab key is located in the leftmost column of the keyboard. For operating systems, applications, and web documents that are designed with accessibility in mind, users can press Tab and Shift + Tab (in reverse order) to cycle through the interactive elements.

Hotkeys

Many Lenovo Googlebook keyboards feature hotkeys in the top row, offering convenient access to frequently used settings.

The fn key

The fn key, short form for function, is a modifier key. It can be used with the top-row dual-function keys to switch their functionalities. It can also be used with several other keys to access defined settings.

Keyboard backlight

Many Googlebook keyboards are equipped with backlights to help you use the keyboard in dark lighting conditions. The backlights can be controlled by pressing the backlight key on the top row of the keyboard.

Biometric devices

Some Lenovo Googlebooks are equipped with biometric devices that facilitate easy and secure identity authentication. If your Googlebook includes a fingerprint sensor, you can use your fingerprint for authentication. Biometric identity authentication can be particularly beneficial for users who find it difficult typing passwords.

Note:

When biometric devices are used for device authentication, they are not the only available method for this purpose. If biometric authentication fails, you can use a password or PIN to sign in.

Accessibility features

An operating system is a crucial piece of software installed on a Googlebook. It plays a vital role in the Googlebook's basic functionality by providing a user interface, various tools for system management, and a foundation upon which additional specialized applications can be installed.

Googlebook offers a rich set of accessibility features designed for individuals with diverse disabilities. This section outlines the accessibility features available in Googlebook, explains how to activate them, and discusses the benefits they provide.

i Note:

The following accessibility features have been tested and confirmed to deliver their essential functionalities on Googlebooks that come pre-installed with an operating system.

- Screen reader
- Display enhancement

Configuring accessibility features in the Settings app

Googlebook provides a centralized location within the Settings app for activating and configuring all accessibility features. You can configure accessibility features through the following ways.

- Press **G** to open the App Launcher and go to **Settings > Accessibility**
- Go to **Quick Settings** and add accessibility options to the panel for easy access.
- Press the accessibility key in the top row of the keyboard.

TalkBack

TalkBack is the screen reader on Googlebook. It can read screen content aloud to users, enabling individuals with visual impairments to navigate effectively within the system, use applications, and browse the web.

Turn on/off TalkBack

You can turn on or turn off TalkBack on your Googlebook through the following ways.

Use device settings

Go to **Settings > Accessibility > TalkBack** and enable **Use TalkBack**.

To turn off TalkBack, disable **Use TalkBack**.

Use a keyboard shortcut

Press Action key + Alt + T to turn on or off TalkBack at any time.

i Note:

When you use TalkBack for the first time, you will see a dialogue window. Follow the on-screen instructions.

Additionally, you can go to **Settings > Accessibility > TalkBack**, click **TalkBack shortcut** to set up.

Customize TalkBack

TalkBack offers a variety of controls, you can customize settings as needed. For example, you can select a preferred voice for TalkBack. Adjust the verbosity level to choose the type of content to be read. All TalkBack settings are located in the centralized Accessibility section of Settings.

Adjusting text sizes, colors, using screen magnification and Select to Speak

For individuals who find it difficult to see text clearly on the screen, Googlebook offers the options of adjusting text sizes, colors, using screen magnification and Select to Speak.

Adjust text sizes

If you find the text on the screen is too small to read, you can scale up the size of text displayed.

1. Press **G** to open the App Launcher. Select **Settings > Accessibility > Display > Display size & text**.
2. Use the slider and the preview pane to select a size that fits your need.

Adjust screen colors

For individuals with low vision, Googlebook offers dark theme and color correction to enhance text readability. You can enable color correction and color inversion on your screen, apply dark theme, remove animations, and adjust the blinking speed of the text cursor.

1. Press **G** to open the App Launcher. Select **Settings > Accessibility > Display > Color & motion**.
2. In the Color & motion menu, select the feature that you want to enable or make adjustments.

Enable screen magnification

You can use the screen magnification to enlarge specific areas or the entire screen, making text and images easier to see.

1. Press **G** to open the App Launcher. Select **Settings > Accessibility > Display > Magnification**.
2. Select the toggle to enable or disable magnification function.
3. Start the screen magnification by clicking the floating button on the side of the screen.

The keyboard shortcuts for enabling and disabling magnification are Action key + Alt + M. When the magnification function is enabled, you can use Action key + plus sign (+) and minus sign (-) to zoom in and zoom out.

Use Select to Speak

You select items on your screen and hear them read or described aloud with Select to Speak.

1. Press **G** to open the App Launcher. Select **Settings > Accessibility > Display > Select to Speak**.
2. Toggle on **Select to Speak shortcut**.
3. Start the Select to Speak by clicking the floating button on the side of the screen.

In the Select to Speak settings, you can adjust the speech rate, voice pitch and preferred language.

Accessible user documentation

Documentation containing instructions for the use of the product, including its accessibility features, is available in accessible formats (such as HTML and PDF) on the Lenovo Support Website. When creating documentation, a series of industry standards and best practices are followed to ensure that the content is useful to as broad an audience as possible. Additionally, automated testing tools are employed to identify issues that may hinder the accessibility of information. These issues are addressed to the extent permitted by commonly available technologies.

Accessibility features of user documentation

By adhering to industry standards and best practices, Lenovo documentation offers numerous features that facilitate the perception and understanding of the content. Additionally, several of these features are specifically designed to ensure that users of assistive technology devices can access information comparable to that available to those who do not rely on such devices.

Perceivable content

Text content is presented using popular and easy-to-read fonts. Text colors are in high contrast with the background. Non-text elements, such as graphics and videos that convey important information,

are accompanied by alternative text descriptions. Users with visual impairments can utilize screen readers to access information comparable to that available to sighted users.

Understandable content

The documentation is presented visually in a well-structured and simple layout. It also includes hidden tags or other markup information that store the content's structure, which can be utilized programmatically by assistive technologies to convey this structure to users.

Operable content

Documentation includes industry-standard tags for sectioning and interactive elements, such as titles, headings, various structural components, links, buttons, and input fields. Screen reader users can utilize standard modifier keys on the keyboard to effectively navigate and interact with the documentation.

Testing documentation accessibility

Before being officially released, Lenovo documentation undergoes testing with automated tools to evaluate its accessibility. HTML documents are assessed for compliance with the success criteria outlined in the *Web Content Accessibility Guidelines (WCAG)*, a widely accepted set of standards designed to enhance web document accessibility. PDF documents are evaluated for accessibility using the accessibility checker in Adobe Acrobat for the same purpose. Automated testing tools help identify elements within a document that may present challenges when rendered by screen readers and other assistive technology devices. Accessibility issues identified by these automated tools are subsequently analyzed manually and corrected as needed.

Appendix A Open source information

Your device may include software made publicly available by Google and other third parties, including software licensed under the General Public License and/or the Lesser General Public License (the “open source software”).

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*Lenovo Legal Department
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8001 Development Dr.
Morrisville, NC 27560*

Please include the model number and build number of this device as part of your request. Be sure to provide a return address.

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Appendix B Important notice for Quebec consumers

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8001 Development Drive

Morrisville, NC 27560

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