



HP Pro Slate 8 Tablet

Maintenance and Service Guide
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authorized service providers only.

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Product notice

This guide describes features that are common to most models. Some features may not be available on your tablet.

Software terms

By installing, copying, downloading, or otherwise using any software product preinstalled on this tablet, you agree to be bound by the terms of the HP End User License Agreement (EULA). If you do not accept these license terms, your sole remedy is to return the entire unused product (hardware and software) within 14 days for a refund subject to the refund policy of your place of purchase.

For any further information or to request a full refund of the tablet, please contact your local point of sale (the seller).

Safety warning notice

 **WARNING!** To reduce the possibility of heat-related injuries or of overheating the device, do not place the device directly on your lap or obstruct the device air vents. Use the device only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The device and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950-1).

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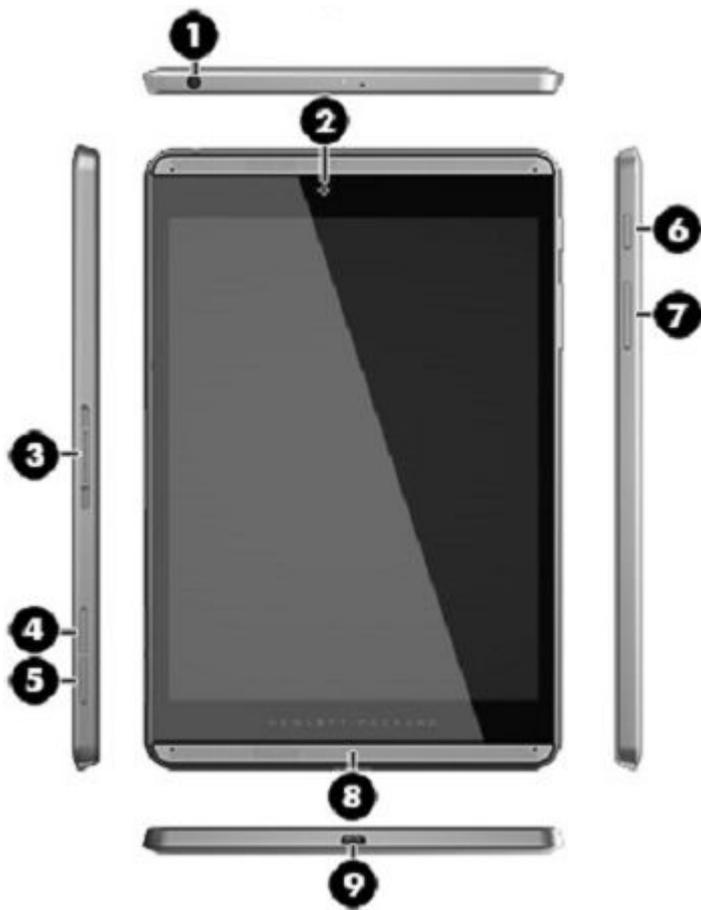
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1 Product description

Category	Description
Product Name	HP Pro Slate 8 Tablet
Processor	Qualcomm Snapdragon APQ8074 Quad core, 2.3 GHz for models without WWAN capability Qualcomm Snapdragon APQ8074 Quad core, 2.3 GHz for models with WWAN capability
Panel	7.8 in display, 2048 x 1536 Full High Definition wide view capacitive; 4:3 Aspect Ratio with 10-point capacitive touch, auto rotate (selectable), tempered glass, anti-smudge TouchScreen display assembly
Memory	2 GB RAM memory, integrated onto system board
Storage	16 GB eMMC, integrated onto system board 32 GB eMMC, integrated onto system board Supports external Micro SD up to 32 GB
Audio and video	Seven microphones Two speakers 8.0 MP full-frame HD video, rear-facing webcam with low-light capability 2.0 MP full-frame HD video, front-facing webcam with low-light capability Supports MP3, Ogg, FLAC, AAC, and AMR audio formats Supports CTIA headset only
Sensor	Accelerometer/G-sensor
Wireless networking	Integrated wireless option: WLAN 802.11 b/g/n (n is select models only) with one antenna Bluetooth®: 4.0+LE with Apt-X and security support required WWAN (select models only) Qualcomm Gobi LTE EU Card ME906E
External expansion	Integrated micro SD Card Reader expandable to 32 GB
Ports	<ul style="list-style-type: none">• Audio: headphone jack, 3.5 mm• Micro SD Card Reader• Micro USB 2.0
Power requirements	5.53 Ah, Li-ion battery, USB charging 10W, 2.0 type-b USB adapter with Micro USB cable and localized cable plug support
Operating system	Preinstalled: Google™ Android™ 4.4 KitKat operating system or Google Android 5.0 Lollipop operating system
Serviceability	End user replaceable parts: <ul style="list-style-type: none">• AC adapter• USB cable

2 External component identification



Item	Component	Item	Component
(1)	Audio-out (headphone)	(6)	Power button
(2)	Front-facing webcam	(7)	Volume control button
(3)	Docking charger	(8)	Speaker
(4)	SIM card slot (select models only)	(9)	USB 2.0 port
(5)	SD card reader		

3 Illustrated parts catalog

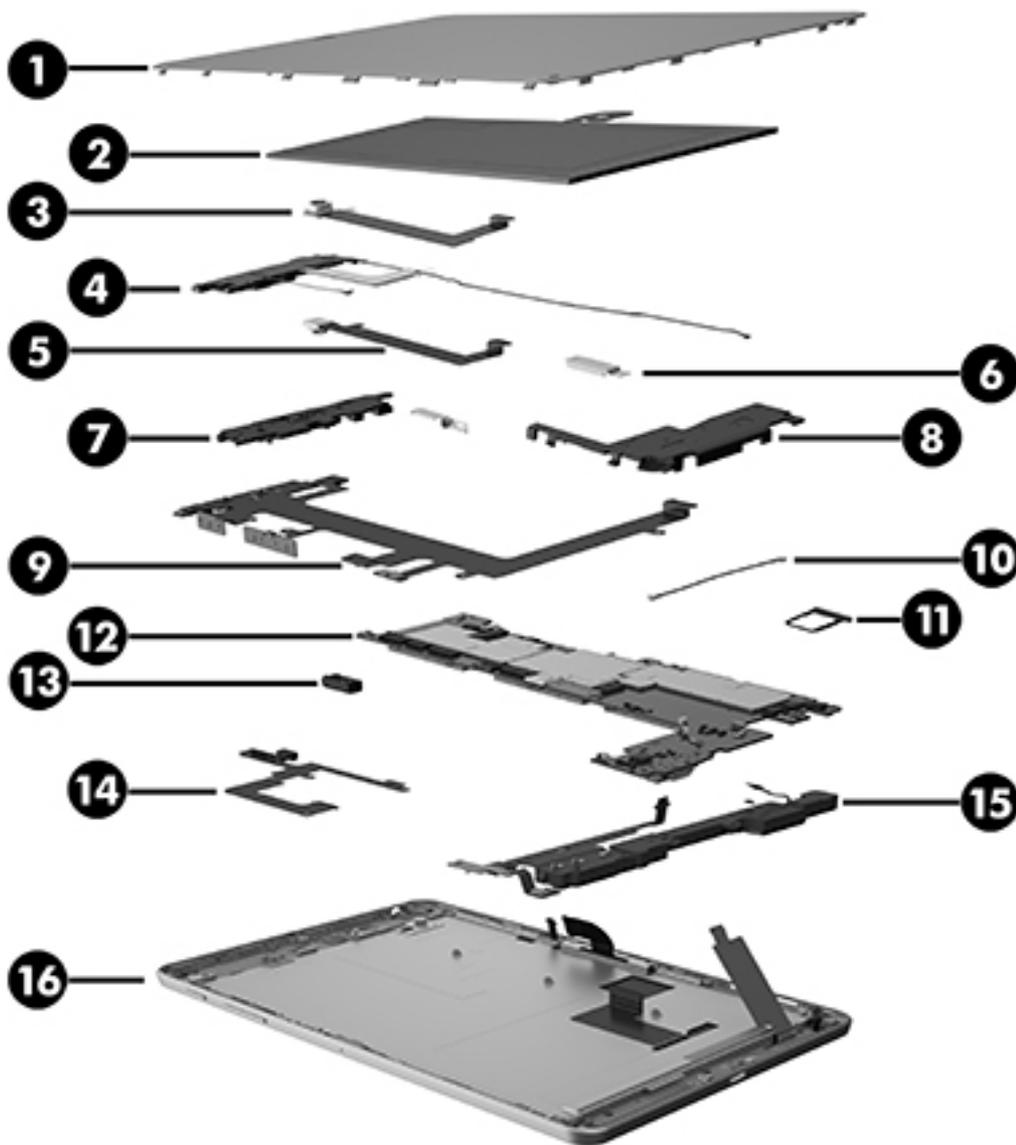
Locating the serial number, product number, and model number

 **NOTE:** HP continually improves and changes product parts. For complete and current information on supported parts for your tablet, go to <http://partsurfer.hp.com>, select your country or region, and then follow the on-screen instructions.

The model number (**1**) and serial number of your tablet are located on the back cover of the tablet. You may need the information when you travel internationally or when you contact support.



Tablet major components



Item	Component	Spare part number
(1)	Back cover	793487-001
(2)	Battery, 3000 mAh, USB-charging (includes cable)	798958-001
(3)	Rear-facing webcam (includes cable)	793500-001
(3)	Front-facing webcam (includes cable)	793499-001
(4)	Speaker Kit, top speaker (includes cable)	793496-001
(5)	LCM bracket (spared with the Plastics Kit)	793491-001
(6)	Rear-facing webcam (includes cable)	793500-001
(7)	Antenna board (includes cable and transceiver)	

Item	Component	Spare part number
	For models with WWAN capability	793486-001
	For models without WWAN capability	808433-001
(7) and (8)	Speaker rubber protector	796792-001
(9)	FPC cable (spared with Outer Ring/Metal Sheet)	806365-001
(10)	GPS cable (spared with WWAN module, select models only)	791396-001
(11)	SD card tray (spared with the Plastics Kit)	793491-001
(12)	System board	
	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive	793497-001
	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive	793498-001
	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2 GB RAM memory, and 16 GB eMMC hard drive for models with WWAN capability	800051-001
	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2 GB RAM memory, and 32 GB eMMC hard drive for models with WWAN capability	800052-001
(13)	Audio jack	793489-001
(14)	Audio cable	793489-001
(15)	Speaker Kit, bottom speaker (includes cable)	793495-001
(16)	7.8 in, LED, TouchScreen, display panel assembly	793492-001

Miscellaneous parts

Component	Spare part number
10W, 2.0 type-b USB adapter with Micro USB cable	793486-001-001
10W, 2.0 type-b USB adapter with Micro USB cable and localized cable plug support	
For use only in Latin America	798685-001
For use only in Australia	798685-002
For use only in the United Kingdom	798685-003
For use only in India	798685-005
For use only in the People's Republic of China	798685-006
For use only in North America	798685-008
For use only in Europe	798685-009
For use only in Brazil	795552-012
For use only in S. Korea	798685-014

Component	Spare part number
18W POGO adapter	
For use only in Latin America	795552-001
For use only in Australia	795552-002
For use only in the United Kingdom	795552-003
For use only in India	795552-005
For use only in the People's Republic of China	795552-006
For use only in North America	795552-008
For use only in Europe	795552-009
For use only in Brazil	795552-012
For use only in Brazil	795552-012
For use only in S. Korea	795552-014
For use only in S. Korea	795552-014
Docking charger	808818-001
HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive	793497-001
Not for use in the People's Republic of China	805902-001
For use only in the People's Republic of China	805906-001
For use in North America	809057-001
HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive	793498-001
Not for use in the People's Republic of China	805903-001
For use only in the People's Republic of China	805907-001
For use in North America	809058-001
HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models with WWAN capability	800051-001
Not for use in the People's Republic of China	805904-001
HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models with WWAN capability	800052-001
Not for use in the People's Republic of China	805905-001
Outer ring and metal sheet	
For models with WWAN capability	806365-001
For models without WWAN capability	808085-001
Q-Pen	793490-001
Screw Kit	793494-001
Volume/power button	793488-001
WWAN module, ME906E LT4112 LTE/HPSA+	791396-001

Sequential part number listing

Spare part number	Description
743820-001	10W, 2.0 type-b USB adapter with Micro USB cable
791396-001	WWAN module, ME906E LT4112 LTE/HPSA+
793486-001	Antenna board (includes cable and transceiver) for models with WWAN capability
793487-001	Back cover
793488-001	Volume/power button
793489-001	Audio jack
793490-001	Q-Pen
793491-001	Plastics Kit
793492-001	7.8 in, LED, TouchScreen, display panel assembly
793493-001	Rubber Kit
793494-001	Screw Kit
793495-001	Speaker Kit, Top speaker (includes cable)
793496-001	Speaker Kit, Bottom speaker (includes cable)
793497-001	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive
793498-001	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive
793499-001	Front-facing webcam (includes cable)
793500-001	Rear-facing webcam (includes cable)
795552-001	18W POGO adapter for use only in Latin America
795552-002	18W POGO adapter for use only in Australia
795552-003	18W POGO adapter for use only in the United Kingdom
795552-005	18W POGO adapter for use only in India
795552-006	18W POGO adapter for use only in the People's Republic of China
795552-008	18W POGO adapter for use only in North America
795552-009	18W POGO adapter for use only in Europe
795552-012	18W POGO adapter for use only in Brazil
795552-014	18W POGO adapter for use only in S. Korea
798685-001	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in Latin America
798685-002	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in Australia
798685-003	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in the United Kingdom
798685-005	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in India

Spare part number	Description
798685-006	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in the People's Republic of China
798685-008	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in North America
798685-009	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in Europe
798685-012	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in Brazil
798685-014	10W 2.0 type-b USB adapter with Micro USB cable and localized cable plug support for use in S. Korea
798958-001	Battery, 5.53 Ah, USB-charging (includes cable)
800051-001	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models with WWAN capability
800052-001	System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models with WWAN capability
805902-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models without WWAN capability, only for use in the People's Republic of China
805903-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models without WWAN capability, not for use in the People's Republic of China
805904-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models without WWAN capability, only for use in the People's Republic of China
805905-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models with WWAN capability, not for use in the People's Republic of China
805906-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models with WWAN capability, not for use in the People's Republic of China
805907-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models without WWAN capability, not for use in the People's Republic of China
806365-001	Outer ring and metal sheet for models with WWAN capability
808085-001	Outer ring and metal sheet for models without WWAN capability
808433-001	Antenna board (includes cable and transceiver) for models without WWAN capability
808818-001	Docking charger
809057-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models without WWAN capability, for use in North America
809058-001	HP Pro Slate 8 equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models without WWAN capability, for use in North America

4 HP Touchpoint Manager software

HP Touchpoint Manager (HPTM) is a complete cloud-based solution for managing devices. Select HP Android Slate tablets include persistent anti-theft technology that allows HP Touchpoint Manager to alert an IT administrator that the device might be stolen.

If a supported device is reset to its factory state while the device is enrolled with an HP Touchpoint Manager account, then an IT administrator is alerted that the device may have been stolen.

The IT administrator can then use the Lost Device Protection feature to locate, lock, sound an alarm, or erase data from the device (see <http://www.hptouchpointmanager.com>). If the device is recovered, then the device owner can launch HP Touchpoint Manager and sign in with their user-name and password to authenticate the device and release it from anti-theft mode.

5 Removal and replacement preliminary requirements

Tools required

You will need the following tools to complete the removal and replacement procedures:

- Magnetic screw driver
- Torx 4 screw driver
- Plastic case utility tool

Service considerations

The following sections include some of the considerations that you must keep in mind during disassembly and assembly procedures.

 **NOTE:** As you remove each subassembly from the tablet, place the subassembly (and all accompanying screws) away from the work area to prevent damage.

Plastic parts

 **CAUTION:** Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions.

Cables and connectors

 **CAUTION:** When servicing the tablet, be sure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the tablet.

Cables must be handled with extreme care to avoid damage. Apply only the tension required to unseat or seat the cables during removal and insertion. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing cables. Be sure that cables are routed in such a way that they cannot be caught or snagged by parts being removed or replaced. Handle flex cables with extreme care; these cables tear easily.

Grounding guidelines

Electrostatic discharge damage

Electronic components are sensitive to electrostatic discharge (ESD). Circuitry design and structure determine the degree of sensitivity. Networks built into many integrated circuits provide some protection, but in many cases, ESD contains enough power to alter device parameters or melt silicon junctions.

A discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry. Even if the spark is neither felt nor heard, damage may have occurred.

An electronic device exposed to ESD may not be affected at all and can work perfectly throughout a normal cycle. Or the device may function normally for a while, then degrade in the internal layers, reducing its life expectancy.

CAUTION: To prevent damage to the tablet when you are removing or installing internal components, observe these precautions:

Keep components in their electrostatic-safe containers until you are ready to install them.

Before touching an electronic component, discharge static electricity by using the guidelines described in this section.

Avoid touching pins, leads, and circuitry. Handle electronic components as little as possible.

If you remove a component, place it in an electrostatic-safe container.

The following table shows how humidity affects the electrostatic voltage levels generated by different activities.

CAUTION: A product can be degraded by as little as 700 V.

Typical electrostatic voltage levels			
Event	Relative humidity		
	10%	40%	55%
Walking across carpet	35,000 V	15,000 V	7,500 V
Walking across vinyl floor	12,000 V	5,000 V	3,000 V
Motions of bench worker	6,000 V	800 V	400 V
Removing DIPs from plastic tube	2,000 V	700 V	400 V
Removing DIPs from vinyl tray	11,500 V	4,000 V	2,000 V
Removing DIPs from Styrofoam	14,500 V	5,000 V	3,500 V
Removing bubble pack from PCB	26,500 V	20,000 V	7,000 V
Packing PCBs in foam-lined box	21,000 V	11,000 V	5,000 V

Packaging and transporting guidelines

Follow these grounding guidelines when packaging and transporting equipment:

- To avoid hand contact, transport products in static-safe tubes, bags, or boxes.
- Protect ESD-sensitive parts and assemblies with conductive or approved containers or packaging.
- Keep ESD-sensitive parts in their containers until the parts arrive at static-free workstations.
- Place items on a grounded surface before removing items from their containers.
- Always be properly grounded when touching a component or assembly.
- Store reusable ESD-sensitive parts from assemblies in protective packaging or nonconductive foam.
- Use transporters and conveyors made of antistatic belts and roller bushings. Be sure that mechanized equipment used for moving materials is wired to ground and that proper materials are selected to avoid static charging. When grounding is not possible, use an ionizer to dissipate electric charges.

Workstation guidelines

Follow these grounding workstation guidelines:

- Cover the workstation with approved static-shielding material.
- Use a wrist strap connected to a properly grounded work surface and use properly grounded tools and equipment.
- Use conductive field service tools, such as cutters, screw drivers, and vacuums.
- When fixtures must directly contact dissipative surfaces, use fixtures made only of static-safe materials.
- Keep the work area free of nonconductive materials, such as ordinary plastic assembly aids and Styrofoam.
- Handle ESD-sensitive components, parts, and assemblies by the case or PCM laminate. Handle these items only at static-free workstations.
- Avoid contact with pins, leads, or circuitry.
- Turn off power and input signals before inserting or removing connectors or test equipment.

Equipment guidelines

Grounding equipment must include either a wrist strap or a foot strap at a grounded workstation.

- When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a minimum of one megohm $\pm 10\%$ resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times. On grounded mats with banana-plug connectors, use alligator clips to connect a wrist strap.
- When standing, use foot straps and a grounded floor mat. Foot straps (heel, toe, or boot straps) can be used at standing workstations and are compatible with most types of shoes or boots. On conductive floors or dissipative floor mats, use foot straps on both feet with a minimum of one megohm resistance between the operator and ground. To be effective, the conductive must be worn in contact with the skin.

The following grounding equipment is recommended to prevent electrostatic damage:

- Antistatic tape
- Antistatic smocks, aprons, and sleeve protectors
- Conductive bins and other assembly or soldering aids
- Nonconductive foam
- Conductive tabletop workstations with ground cords of one megohm resistance
- Static-dissipative tables or floor mats with hard ties to the ground
- Field service kits
- Static awareness labels
- Material-handling packages
- Nonconductive plastic bags, tubes, or boxes
- Metal tote boxes
- Electrostatic voltage levels and protective materials

The following table lists the shielding protection provided by antistatic bags and floor mats.

Material	Use	Voltage protection level
Antistatic plastics	Bags	1,500 V
Carbon-loaded plastic	Floor mats	7,500 V
Metallized laminate	Floor mats	5,000 V

6 Removal and replacement procedures

Tablet component replacement procedures

 **CAUTION:** Tablet components described in this chapter should only be accessed by an authorized service provider. Accessing these parts can damage the tablet and void the warranty.

 **NOTE:** HP continually improves and changes product parts. For complete and current information on supported parts for your tablet, go to <http://partsurfer.hp.com>, select your country or region, and then follow the on-screen instructions.

This chapter provides removal and replacement procedures for authorized service provider only parts.

There are as many as 15 screws that must be removed, replaced, and/or loosened when servicing the tablet. Make special note of each screw size and location during removal and replacement.

Back cover

Description	Spare part number
Back cover	793487-001
7.8 in, HD, LED, TouchScreen, display panel assembly	793492-001

Before disassembling the tablet, follow these steps:

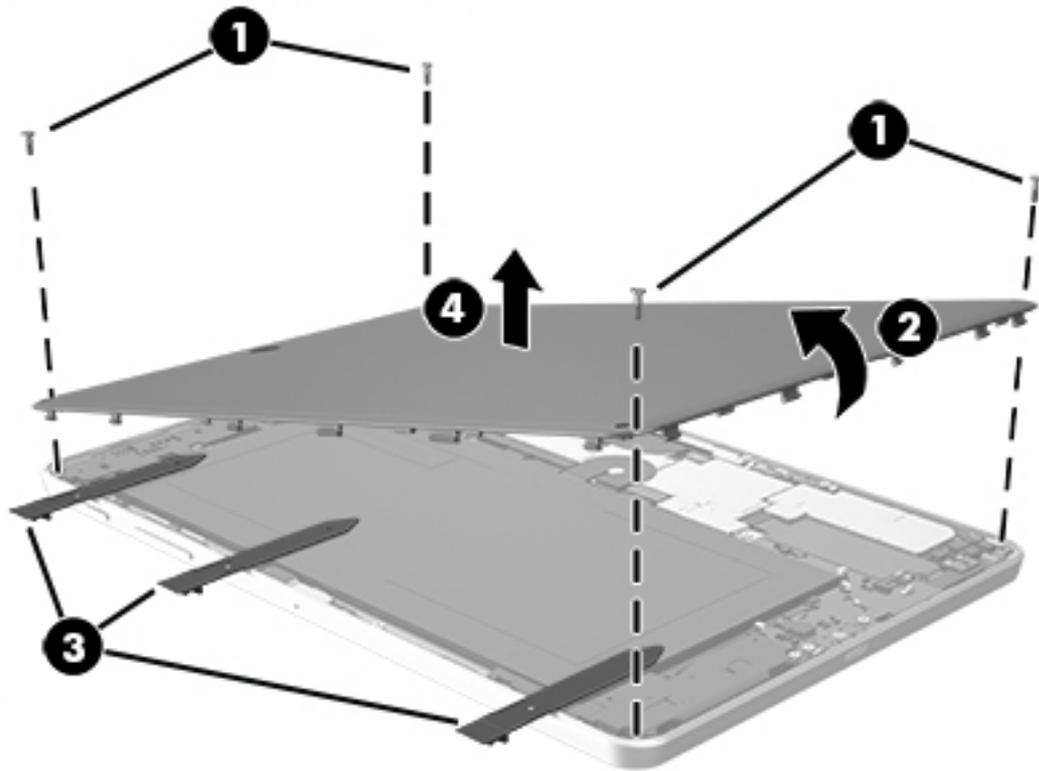
1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.

Remove the back cover:

 **CAUTION:** Before turning the display panel assembly upside down, make sure the work surface is clear of tools, screws, and any other foreign objects. Failure to follow this caution can result in damage to the display panel assembly.

1. Place the tablet on a flat surface, display panel side down, with the SD card slot and volume control buttons toward you.
2. Remove four Torx 4 screws **(1)** to release the bottom edge of the back cover **(2)** from the display panel assembly.

3. Remove the tape that secures the battery to the back cover (3), and then remove the cover (4).



Reverse this procedure to install the back cover.

Battery

Description	Spare part number
Battery, 5.53 Ah, USB-charging (includes cable)	798958-001

Before removing the battery, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).

WARNING! To reduce potential safety issues, use only the battery provided with the tablet, a replacement battery provided by HP, or a compatible battery purchased from HP.

CAUTION: Removing a battery that is the sole power source for the tablet can cause loss of information. To prevent loss of information, save your work or shut down the tablet through the operating system before disconnecting and removing the battery.

Remove the battery:

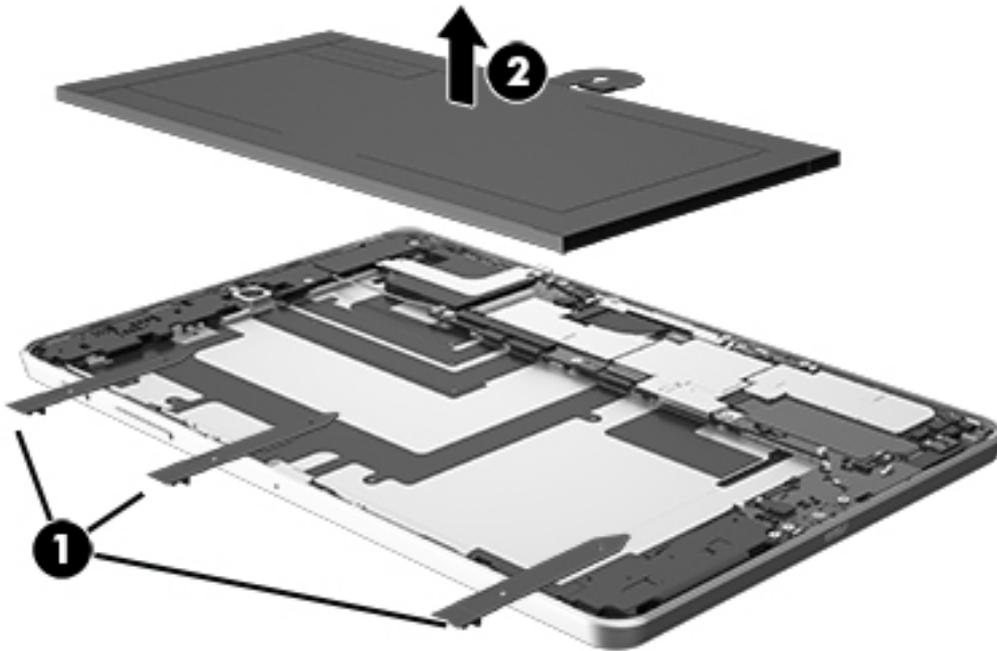


NOTE: Disconnect the battery cable carefully; pulling too hard can break the system board connector.

1. Release the tape **(1)** holding the battery.
2. Disconnect the battery cable from the system board, and then remove the battery **(2)**.



NOTE: Be careful not to bend the battery as you lift it.



Reverse this procedure to install the battery.

Rear-facing webcam

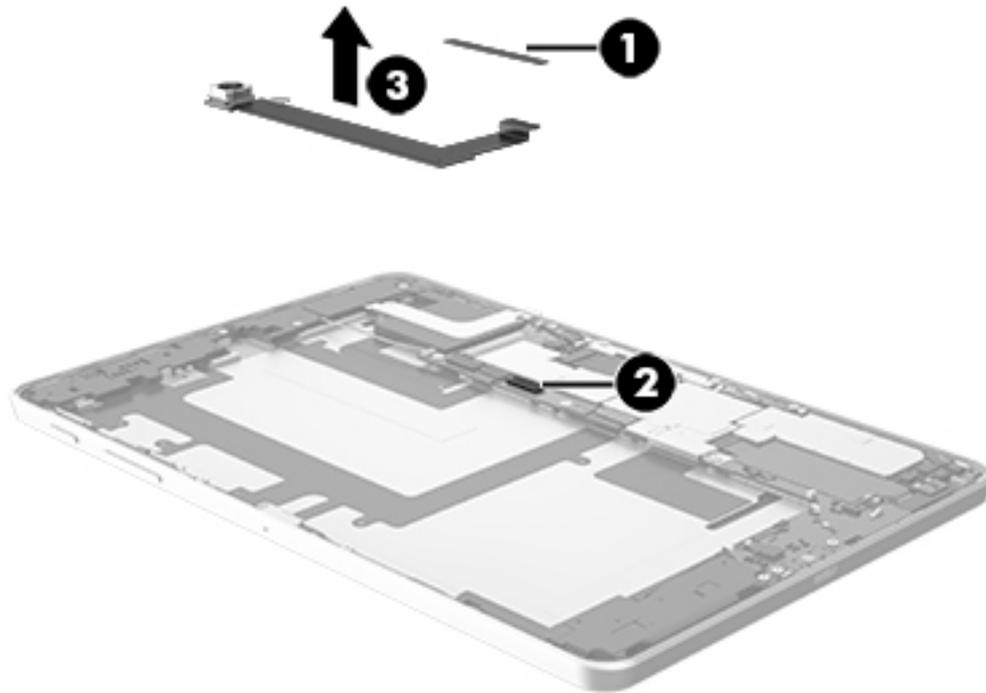
Description	Spare part number
Rear-facing webcam (includes cable)	793500-001

Before removing the rear-facing webcam, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).

Remove the rear-facing webcam:

1. Remove the tape **(1)**, and then release the ZIF connector **(2)** that secures the rear-facing webcam to the system board.
2. Remove the rear-facing webcam **(3)** from the display panel assembly.



Reverse this procedure to install the rear-facing webcam.

Front-facing webcam

Description	Spare part number
Front-facing webcam (includes cable)	793499-001

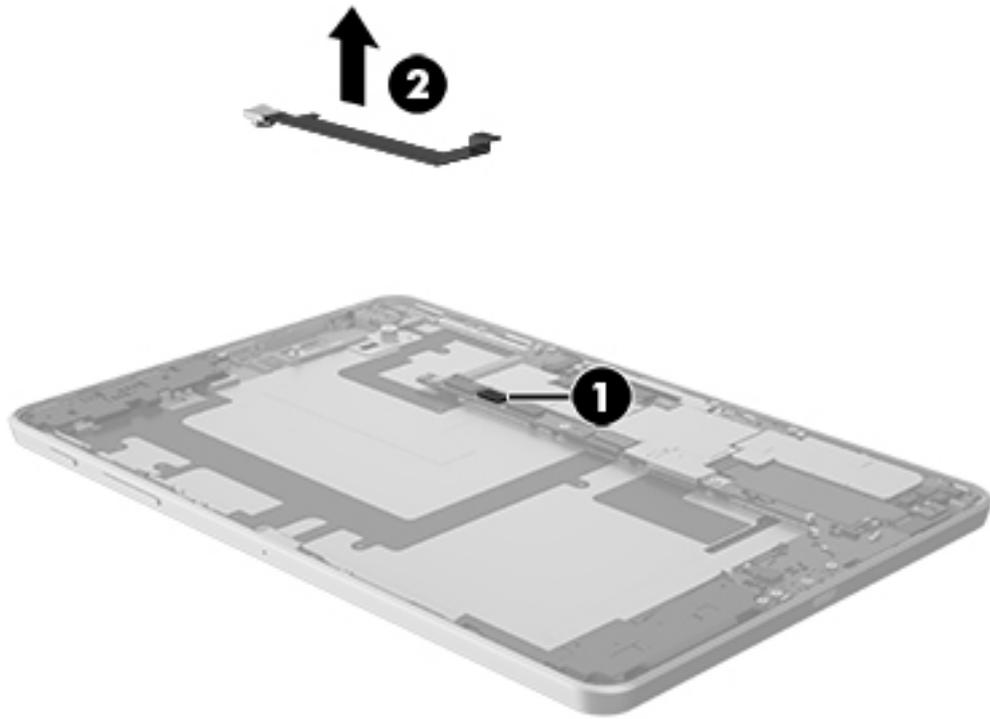
Before removing the front-facing webcam, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).

Remove the front-facing webcam:

1. Release the ZIF connector **(1)** that secures the front-facing webcam cable to the system board.

2. Remove the front-facing webcam (2) from the display panel assembly.



Reverse this procedure to install the front-facing webcam.

Top speaker

Description	Spare part number
Speaker Kit, top speaker (includes cable)	793495-001

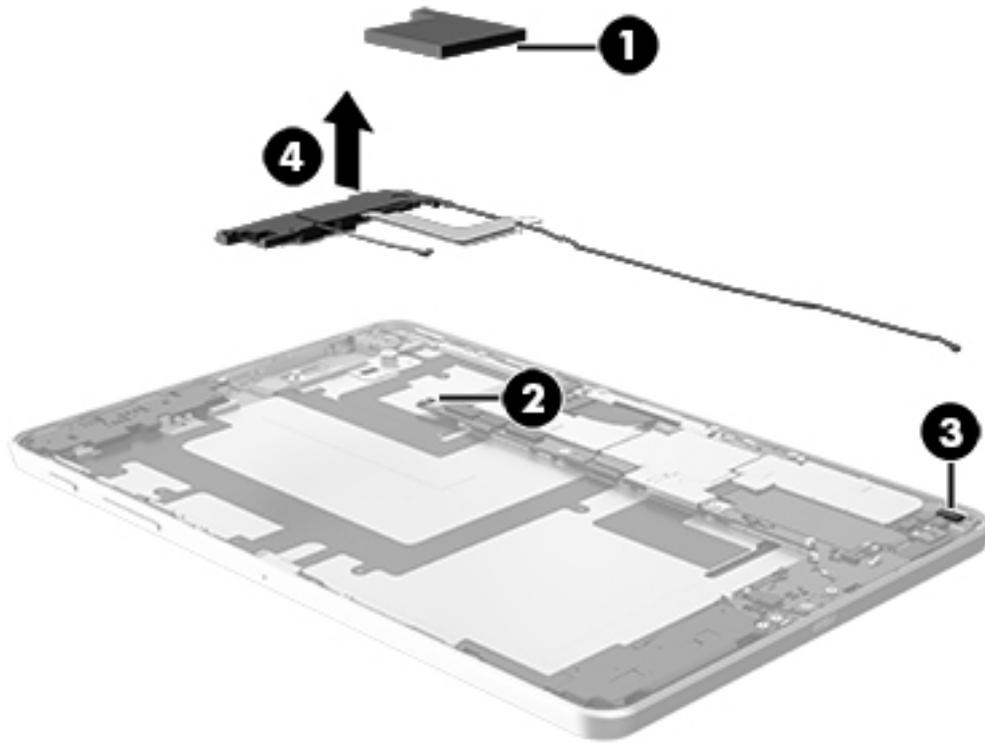
Before removing the top speaker and Wi-Fi auxiliary cable, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).

Remove the top speaker board:

1. Remove the foam pad **(1)** covering the top speaker board.
2. Disconnect the speaker **(2)** from the system board.
3. Disconnect the Wi-Fi auxiliary cable **(3)** from the system board.

4. Detach the top speaker board (4) from the display panel assembly, and then remove the top speaker board and Wi-Fi auxiliary cable.



Reverse this procedure to install the top speaker and Wi-Fi auxiliary cable.

Antenna board

Description	Spare part number
Antenna (includes cable and transceiver) for models with WWAN capability	793486-001
Antenna (includes cable and transceiver) for models without WWAN capability	808433-001

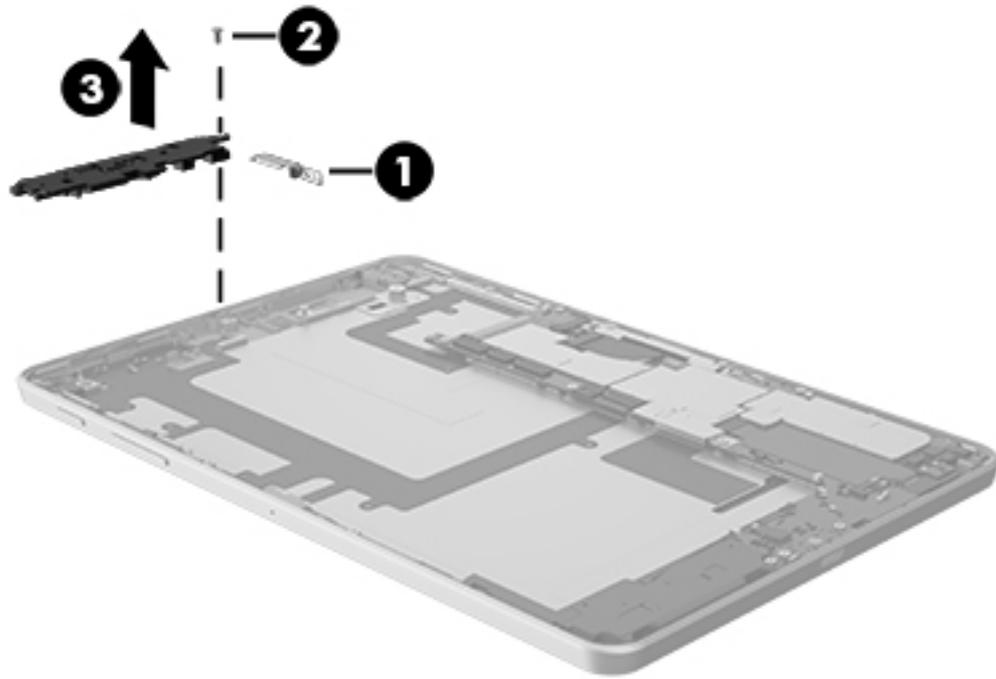
Before removing the antenna board, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).

Remove the antenna board:

1. Remove the ambient light sensor **(1)**.
2. Remove one Torx 4 screw **(2)**.

3. Remove the antenna board (3).



LCM bracket

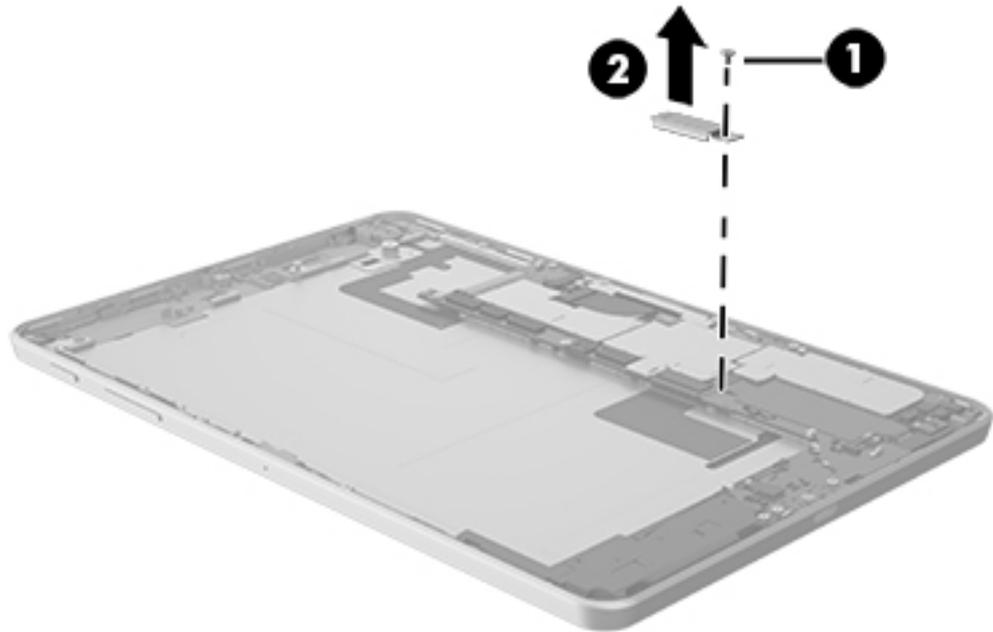
Description	Spare part number
LCM bracket (spared in the Plastics Kit)	793491-001
LCM cable (spared in the Rubber Kit)	793493-001

Before removing the LCM bracket and cable, follow these steps:

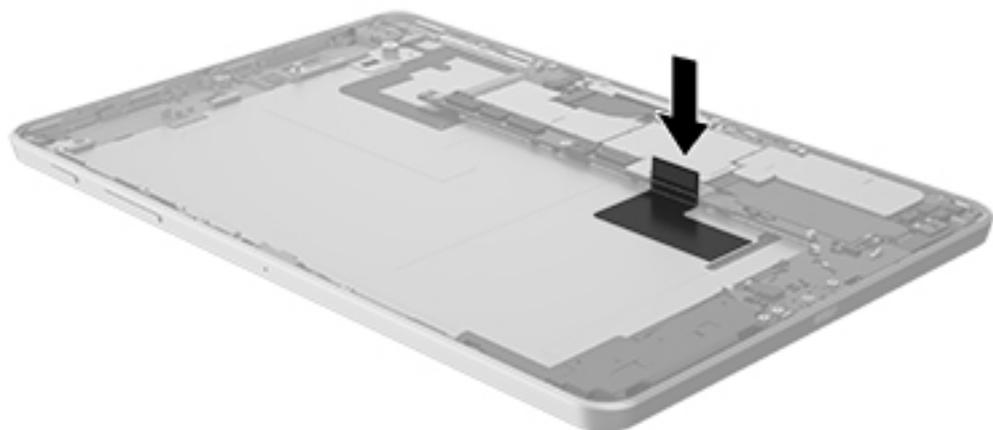
1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).
9. Remove the antenna board (see [Antenna board on page 21](#)).

Remove the LCM bracket and cable:

1. Remove one Torx 4 screw **(1)** that secures the LCM bracket to the system board, and then remove the LCM bracket **(2)**.



2. Disconnect the LCM cable.



Reverse this procedure to install the LCM cable, and the LCM bracket.

Audio jack

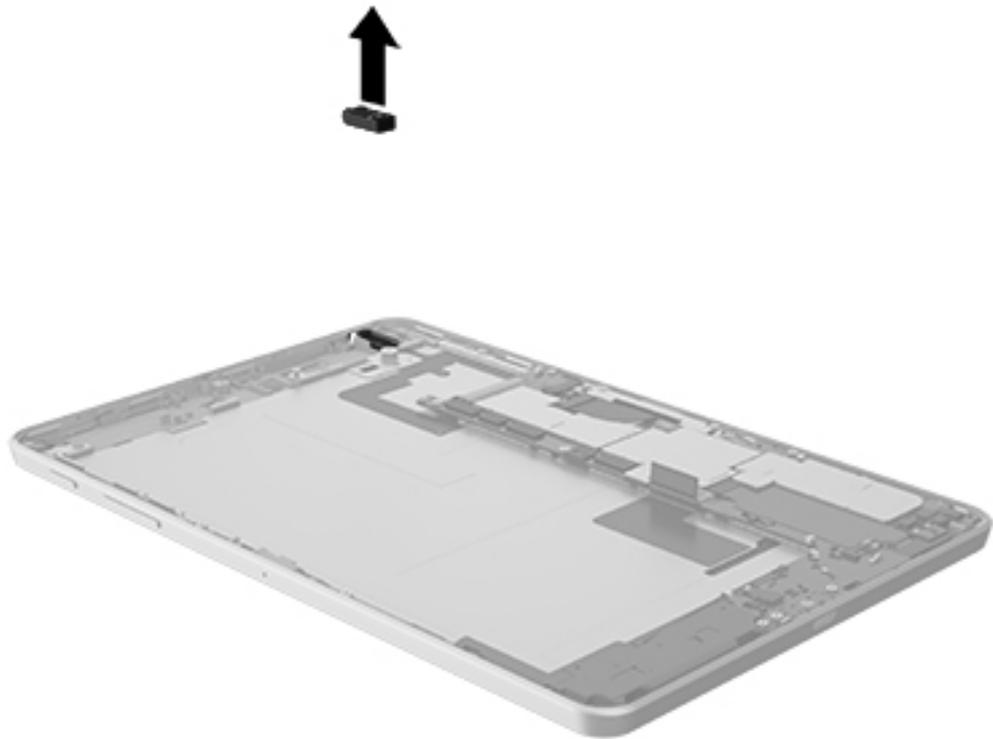
Description	Spare part number
Audio jack	793489-001

Before removing the audio jack, follow these steps:

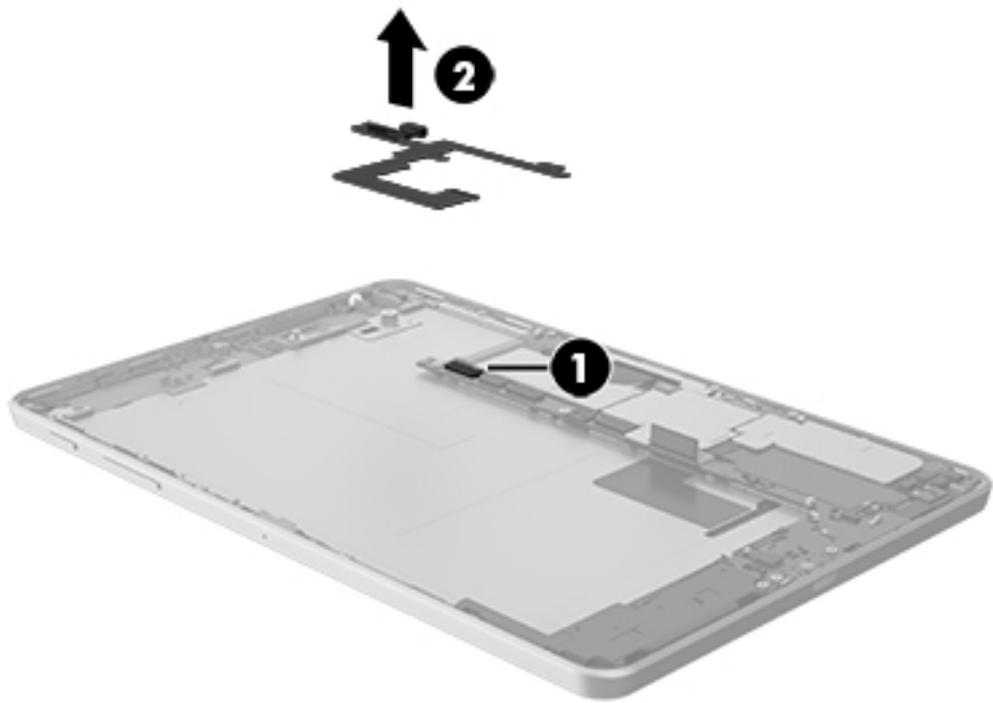
1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).
9. Remove the antenna board (see [Antenna board on page 21](#)).
10. Remove the LCM bracket (see [LCM bracket on page 22](#)).

Remove the audio jack:

1. Remove the audio jack from the display assembly.



2. Disconnect the ZIF connector **(1)** that secures the audio cable to the system board, and then remove the audio cable **(2)**.



Reverse this procedure to install the audio jack and the audio cable.

Docking charger

Description	Spare part number
Docking charger	808818-001

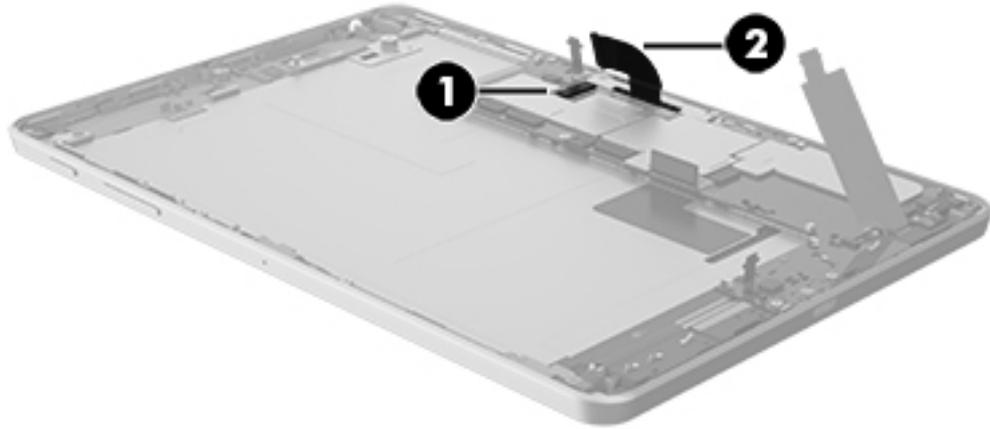
Before removing the docking charger, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).
9. Remove the antenna board (see [Antenna board on page 21](#)).
10. Remove the LCM bracket (see [LCM bracket on page 22](#)).
11. Remove the audio jack (see [Audio jack on page 24](#)).

Remove the docking charger:

1. Release the ZIF connector **(1)** that secures the docking charger to the system board.

2. Remove the docking charger (2).



Reverse this procedure to install the docking charger.

System board

Description	Spare part number
System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive	793497-001
System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive	793498-001
System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 16 GB eMMC hard drive for models with WWAN capability	800051-001
System board equipped with Qualcomm Snapdragon APQ8074 Quad core 2.3GHz Graphics Chipset, 2GB RAM memory, and 32 GB eMMC hard drive for models with WWAN capability	800052-001

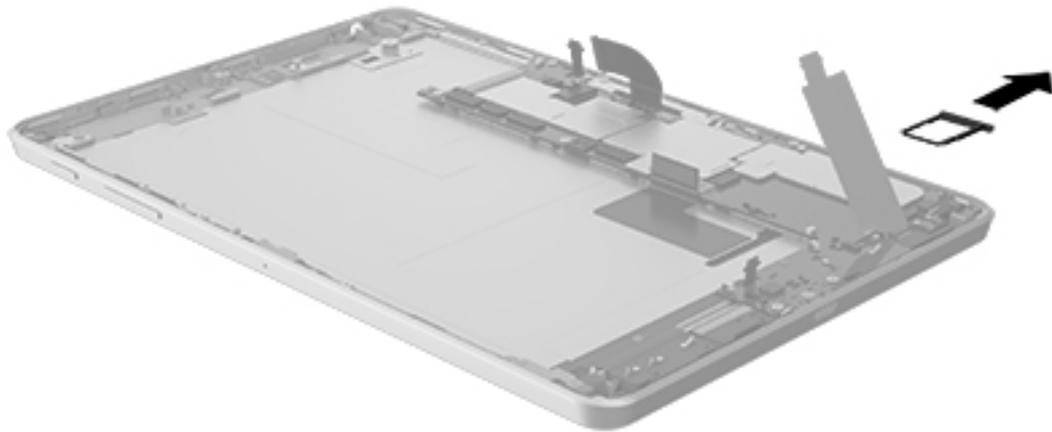
Before removing the system board, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).

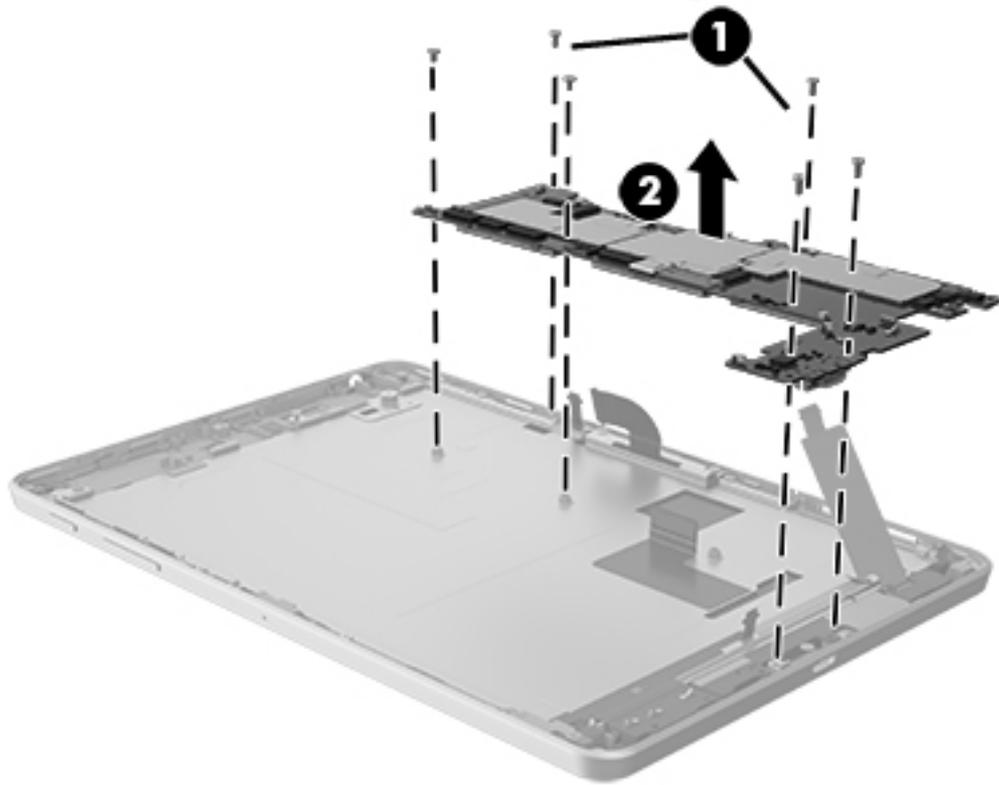
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).
9. Remove the antenna board (see [Antenna board on page 21](#)).
10. Remove the LCM bracket (see [LCM bracket on page 22](#)).
11. Remove the audio jack (see [Audio jack on page 24](#)).
12. Remove the docking charger (see [Docking charger on page 26](#)).

Remove the system board:

1. Remove the SD card tray and the SIM card tray (select models only).



2. Remove the six Torx 4 screws **(1)** that secure the system board to the display panel assembly.



3. Remove the system board **(2)**.
Reverse this procedure to install the system board.

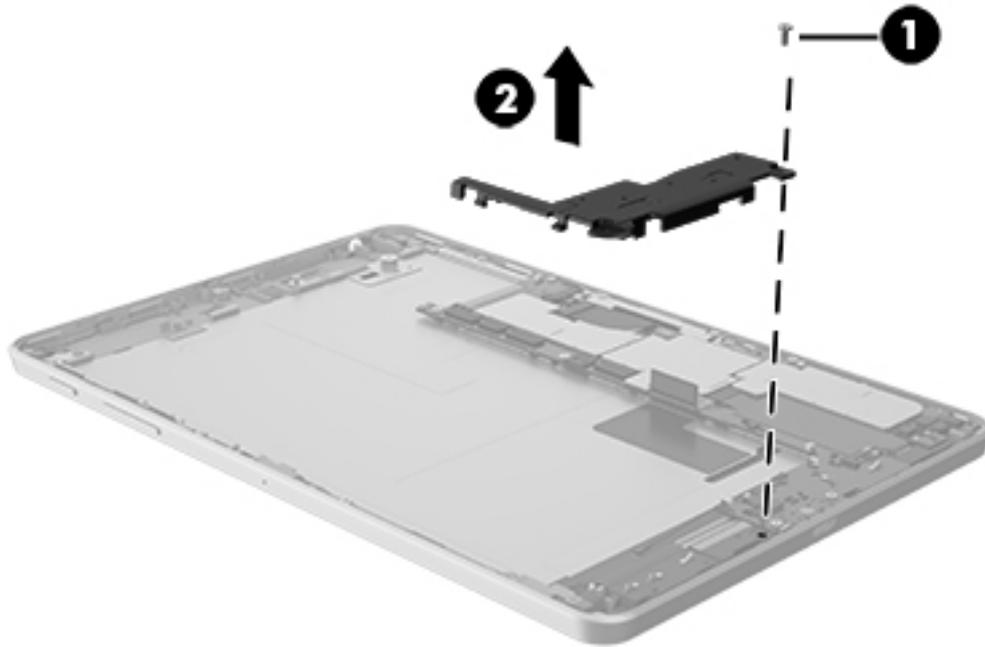
Bottom speaker

Description	Spare part number
Speaker Kit, bottom speaker (includes cable)	793496-001

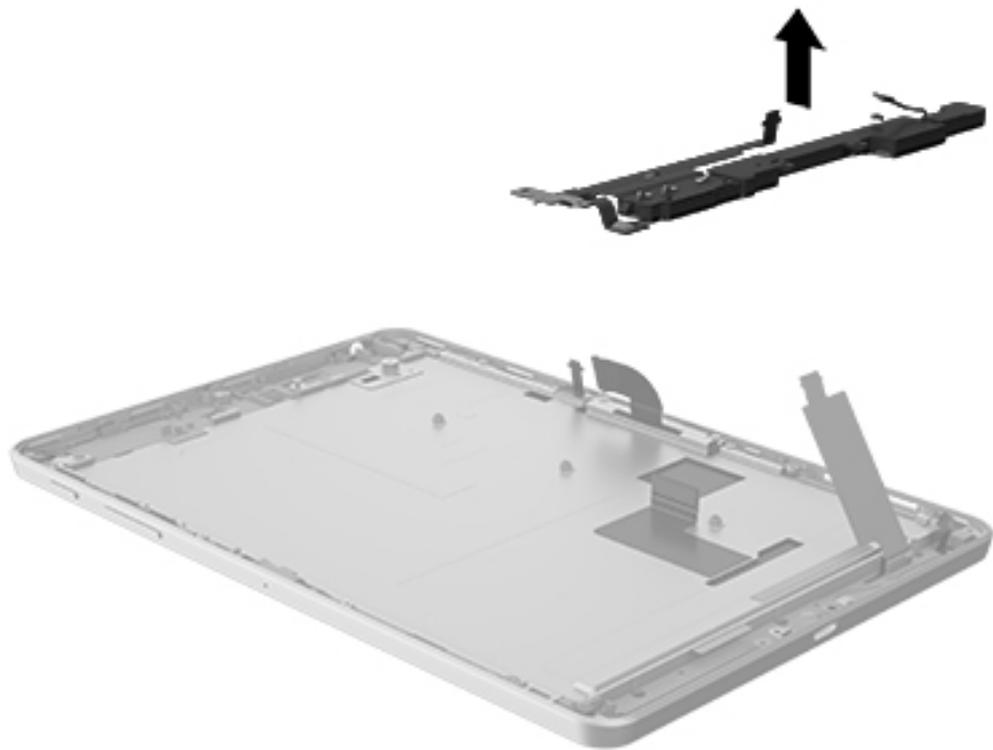
Before removing the bottom speaker, follow these steps:

1. Turn off the tablet. If you are unsure whether the tablet is off, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power adapter cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove the back cover (see [Back cover on page 14](#)).
5. Remove the battery (see [Battery on page 15](#)).
6. Remove the rear-facing webcam (see [Rear-facing webcam on page 16](#)).
7. Remove the front-facing webcam (see [Front-facing webcam on page 17](#)).
8. Remove the top speaker (see [Top speaker on page 19](#)).

9. Remove the antenna board (see [Antenna board on page 21](#)).
10. Remove the LCM bracket (see [LCM bracket on page 22](#)).
11. Remove the audio jack (see [Audio jack on page 24](#)).
12. Remove the docking charger (see [Docking charger on page 26](#)).
13. Remove the system board (see [System board on page 27](#)).
1. Remove one Torx 4 screw **(1)**, and then remove the plastic bracket **(2)**.



2. Remove the bottom speaker.



Reverse this procedure to install the bottom speaker.

7 Specifications

	Metric	U.S.
Dimensions (portrait orientation)		
Height	11.07 cm	4.36 in
Width	19.27 cm	7.59 in
Depth	0.99 cm	0.37 in
Weight (lowest weight configuration)	0.36 kg	0.79 lb
Input power		
The tablet operates on DC power, which can be supplied by an AC or a DC power source. The AC power source must be rated at 100-240 V, 50/60 Hz, 0.3-1.0 A.		
NOTE: The tablet can operate on DC power using an industry-standard micro-B USB cable. The HP 5V 2A adapter included with your tablet is recommended for charging the tablet.		
Temperature		
Operating	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (non-condensing)		
Operating	10% to 90%	
Nonoperating	5% to 95%	
Maximum altitude (unpressurized)		
Operating	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating	-15 m to 12,192 m	-50 ft to 40,000 ft
NOTE: Applicable product safety standards specify thermal limits for plastic surfaces. The device operates well within this range of temperatures.		

8 Backing up and recovering your data using Android KitKat

Updating apps, widgets, and the operating system

HP recommends that you update your apps, widgets, and the operating system on a regular basis to the latest versions. Updates can resolve issues and bring new features and options to your tablet. Technology is always changing, and updating apps, widgets, and the operating system allows your tablet to run the latest technology available. For example, older apps and widgets might not work well with the most recent operating system.

If you download the latest versions of HP and third-party apps and widgets, the operating system will download system updates automatically and notify you when it is ready to install these updates. If you want to update the operating system manually, go to <http://www.hp.com/support>.

Back up and reset

HP strongly encourages that you periodically back up your personal data on your tablet to another computer, a dedicated storage device, or to the cloud using one of several commercially available solutions.

You can select preferences for backing up and restoring your data in case of loss.

1. Touch .
2. Under **PERSONAL**, touch **Back up & reset**.
3. Under **BACKUP & RESTORE**, select one or more of the following:
 - **Back up my data**—Select the check box to enable backing up app data, wireless passwords, and other settings to Internet servers, or clear the check box to disable this feature.
 - **Backup account**—Select an email account for backing up data.
 - **Automatic restore**—Select the check box to enable backed up settings and data to be restored when an app is reinstalled, or clear the check box to disable this feature.

Factory data reset

Resetting with the tablet turned on

If the tablet starts normally, and if you are able to sign in to the owner account (the first account added to the device), follow the steps in this section.

To reset all settings and delete all data on the device:

1. Touch .
2. Under **PERSONAL**, touch **Back up & reset**.
3. Under **PERSONAL DATA**, select **Factory data reset**.

 **CAUTION:** All data saved on your device is deleted when you perform a factory reset. All apps are uninstalled. It may be possible to restore data in your email account. Back up all important files with an external storage device or to the cloud using one of several commercially available solutions, before resetting the tablet.

4. Touch **Reset tablet**.
5. If you set a lock screen password for your tablet, enter your password when prompted.
6. Touch **Erase everything** to begin the reset.

The tablet turns off. When the reset is complete, the tablet starts.

Resetting with the tablet turned off

If the tablet does not start normally, or if you do not remember the lock screen password, you can reset the tablet without turning it on.

 **CAUTION:** All data saved on your device is deleted when you perform a factory reset. All apps are uninstalled, but it may be possible to restore data in your email account. Back up all important files with an external storage device or to the cloud using one of several commercially available solutions, before resetting the tablet.

 **NOTE:** The touch screen is disabled when the device is in recovery mode. Use the volume up (+) and volume down (-) buttons to navigate up or down in the recovery menu.

1. Charge the tablet for at least half an hour, and then disconnect the AC adapter from the tablet.
2. If a micro SD card is installed in the tablet, remove the memory card before resetting the tablet.
3. With the tablet turned off, press and hold the power button, and then press the volume up (+) button at the same time.
4. Press and hold the power button and the volume up (+) button for several seconds.
5. When the Select Boot Mode appears, press the volume up (+) button to highlight **Recovery**, and then press the power button to select **Recovery**.
6. Press and hold the power button, and then press the volume up (+) button once to enter Recovery mode.
7. Press the volume down (-) button to highlight **wipe data/factory reset**, and then press the power button to begin the reset.
8. Press the volume down (-) button to select **Yes –delete all user data**”, and then press the power button.
A recovery system screen shows the reset process.
9. When the screen displays the message **Data wipe complete**, press the volume down (-) button to highlight **Reboot system now**, and then press the power button to select.

The tablet will restart.

9 Backing up and recovering your data using Android Lollipop

Automatically updating apps

Some online marketplaces update your apps automatically. Some keep a record of your purchases as well as your last synched settings. If you should need to perform a recovery on your tablet, this record will be available to retrieve all of your settings, favorites, and apps.



NOTE: The auto-update feature is a setting in the online marketplace, not on your tablet. The online marketplace available to you will vary based on your tablet and country.

Manually updating apps, widgets, and the operating system

HP recommends that you update your apps, widgets, and the operating system on a regular basis to the latest versions. Updates can resolve issues and bring new features and options to your tablet. Technology is always changing, and updating apps, widgets, and the operating system allows your tablet to run the latest technology available. For example, older apps and widgets might not work well with the most recent operating system.

If you download the latest versions of HP and third-party apps and widgets, the operating system will download updates automatically and notify you when it is ready to install these updates. For more information:

1. Go to <http://www.hp.com/support>, and follow the on-screen instructions to select your country and your product.
2. Follow the on-screen instructions to access your Android operating system software.

Back up and reset

HP strongly encourages that you periodically back up your personal data on your tablet to another computer, a dedicated storage device, or to the cloud using one of several commercially available solutions.

You can select preferences for backing up and restoring your data in case of loss.

1. Swipe down twice from the top edge, and then touch the **Settings** icon .
2. Under **Personal**, touch **Back up & reset**.
3. Under **Backup & restore**, select one or more of the following:
 - **Back up my data**—Slide the switch to the right to enable backing up app data, Wi-Fi passwords, and other settings to Internet servers.
 - **Backup account**—Select an email account for backing up data.
 - **Automatic restore**—Slide the switch to the right to enable backed up settings and data to be restored when an app is reinstalled.

Factory data reset

Resetting with your tablet turned on

If your tablet starts normally, and if you are able to sign in to the owner account (the first account added to the tablet), follow the steps in this section.

To reset all settings and delete all data on your tablet:

1. Swipe down twice from the top edge, and then touch the **Settings** icon .
2. Under **Personal**, touch **Back up & reset**.
3. Under **Personal data**, touch **Factory data reset**.

 **CAUTION:** All data saved on your tablet is deleted when you perform a factory reset. All apps are uninstalled. It may be possible to restore data in your email account. Back up all important files with an external storage device or to the cloud using one of several commercially available solutions, before resetting your tablet.

4. Touch **RESET TABLET**.
5. If you set a lock screen password for your tablet, enter your password when prompted.
6. Touch **ERASE EVERYTHING** to begin the reset.

The tablet turns off. When the reset is complete, the tablet starts.

Resetting with your tablet turned off

If your tablet does not start normally, or if you do not remember the lock screen password, you can reset the tablet without turning it on.

 **CAUTION:** All data saved on your tablet is deleted when you perform a factory reset. All apps are uninstalled, but it may be possible to restore data in your email account. Back up all important files with an external storage device or to the cloud using one of several commercially available solutions, before resetting the tablet.

 **NOTE:** The touch screen is disabled when the tablet is in recovery mode. Use the volume up (+) and volume down (-) buttons to navigate up or down in the Recovery menu.

1. Charge the tablet for at least half an hour, and then disconnect the AC adapter from the tablet.
2. If a microSD card is installed in the tablet, remove the card before resetting the tablet.
3. With the tablet turned off, press and hold the power button and the volume up (+) button at the same time.
4. When the Recovery menu appears, use the volume up (+) and volume down (-) buttons to highlight **wipe data/factory reset**.
5. Press the power button to select.
The screen displays **Confirm wipe of all user data? THIS CAN NOT BE UNDONE**.
6. Use the volume up (+) and volume down (-) buttons to highlight **Yes -- delete all user data**.

7. Press the power button to begin the reset.
A recovery system screen shows the reset process.
8. When the screen displays the message **Data wipe complete**, use the volume up (+) and volume down (-) buttons to highlight **Reboot system now**, and then press the power button to select.
The tablet will restart.

Starting your tablet using the Recovery menu

If your tablet is unable to boot into the operating system, you can perform a system recovery by directly accessing the Recovery menu.

1. Turn off your tablet, and then plug in the AC adapter.
2. To boot into the Recovery menu, press and hold the volume up (+) button and the power button at the same time until the HP logo is displayed.
3. When the Recovery menu appears, use the volume up (+) and volume down (-) buttons to highlight **wipe data/factory reset**, and then press the power button to confirm the selection.
4. Use the volume up (+) and volume down (-) buttons to highlight **Yes — delete all user data**, and then press the power button to confirm the selection.
5. Use the volume up (+) and volume down (-) buttons to highlight **reboot system now**, and then press the power button to confirm the selection.

Updating your tablet using an over-the-air (OTA) update

1. Turn off your tablet, and then connect it to AC power.
2. Turn on your tablet, and then connect to the Internet.
3. Swipe down twice from the top edge, and then touch the **Settings** icon .
4. Touch **About tablet**, touch **System updates**, and then touch **CHECK FOR UPDATE**.
5. Follow the on-screen instructions to finish the process. Your tablet may restart as updates are applied.

Updating your tablet using a file-based update



NOTE: Before performing the following procedure, connect your tablet to AC power.

1. Download the latest operating system restore image for your tablet.
 - a. Go to <http://www.hp.com/support>, and follow the on-screen instructions to select your country and your product.
 - b. Follow the on-screen instructions to access and download your Android operating system software.
2. Locate **update.zip** and copy it to a microSD card.
3. Turn off your tablet, and then insert the microSD card containing the **update.zip** file.
4. To power on your tablet, press and hold the volume up (+) button and the power button.
5. Select **apply update from sdcard**.
6. Follow the on-screen instructions to finish the process and restart your tablet.

10 Power adapter requirements

The wide-range input feature of the tablet permits it to operate from any line voltage from 100 to 120 volts AC, or from 220 to 240 volts AC.

The 2-conductor power adapter included with the tablet meets the requirements for use in the country or region where the equipment is purchased.

Power adapters for use in other countries and regions must meet the requirements of the country or region where the tablet is used.

Requirements for all countries

The following requirements are applicable to all countries and regions:

- The length of the adapter cord set must be at least **1.0 m** (3.3 ft) and no more than **2.0 m** (6.5 ft).
- All power adapters must be approved by an acceptable accredited agency responsible for evaluation in the country or region where the adapter will be used.

Requirements for specific countries and regions

Country/region	Accredited agency
Argentina	IRAM
Australia	SAA
Austria	OVE
Belgium	CEBEC
Brazil	ABNT
Canada	CSA
Chile	IMQ
Denmark	DEMKO
Finland	FIMKO
France	UTE
Germany	VDE
India	ISI
Israel	SII
Italy	IMQ
Japan	JIS
The Netherlands	KEMA
New Zealand	SANZ

Country/region	Accredited agency
Norway	NEMKO
The People's Republic of China	CCC
Saudi Arabia	SASO
Singapore	PSB
South Africa	SABS
South Korea	KTL
Sweden	SEMKO
Switzerland	SEV
Taiwan	BSMI
Thailand	TISI
The United Kingdom	ASTA
The United States	UL

11 Recycling

When a non-rechargeable or rechargeable battery has reached the end of its useful life, do not dispose of the battery in general household waste. Follow the local laws and regulations in your area for battery disposal.

HP encourages customers to recycle used electronic hardware, HP original print cartridges, and rechargeable batteries. For more information about recycling programs, see the HP Web site at <http://www.hp.com/recycle>.

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