



HP 10 Plus 2201 Tablet and HP 10 2101 Tablet

Maintenance and Service Guide

IMPORTANT! This document is intended for
HP authorized service providers only.

© Copyright 2014 Hewlett-Packard
Development Company, L.P.

Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. SD Logo is a trademark of its proprietor.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

First Edition: June 2014

Document Part Number: 778902-001

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).

Table of contents

1 Product description	1
2 External component identification	3
3 Illustrated parts catalog	4
Locating the tablet part number and serial number	4
Tablet major components	5
Miscellaneous parts	7
Sequential part number listing	8
4 Removal and replacement preliminary requirements	10
Tools required	10
Service considerations	10
Plastic parts	10
Cables and connectors	10
Drive handling	11
Grounding guidelines	11
Electrostatic discharge damage	11
Packaging and transporting guidelines	13
Workstation guidelines	13
Equipment guidelines	14
5 Removal and replacement procedures	15
Back cover	15
Battery	16
Speakers	18
Wifi antenna	19
GPS antenna	21
Rear-facing webcam	23
Front-facing webcam	25
Microphone	28

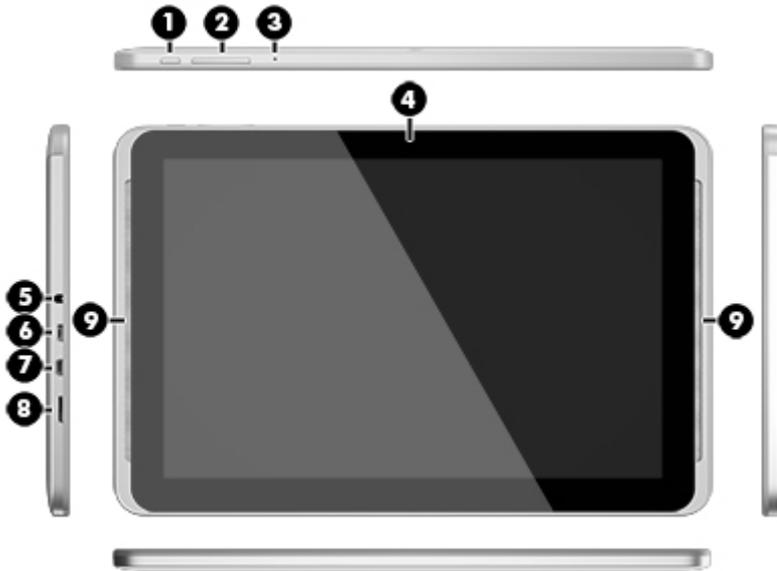
Display panel cable	29
System board	32
6 Power cord set requirements	36
Requirements for all countries	36
Requirements for specific countries and regions	36
7 Recycling	38
Index	39

1 Product description

Category	Description	HP 10 Plus 2201 Tablet	HP 10 2101 Tablet
Product Name	HP 10 Plus 2201 Tablet	×	
	HP 10 2101 Tablet		×
Chipset/processor	Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor	×	×
Graphics	Mali400 MP2	×	×
Panel	10.1-in, 1920×1200, full high-definition (FHD), antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, light-emitting diode (LED) backlight, display panel	×	
	10.1-in, 1280×800, in-plane switching (IPS), antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, light-emitting diode (LED) backlight, display panel		×
Memory	Supports 2 GB, DDR3L, 1600-MHz system memory, integrated onto system board	×	
	Supports 1 GB, DDR3L, 1600-MHz system memory, integrated onto system board		×
Storage	Supports 16 GB eMMC storage, integrated onto system board	×	×
	Supports external Micro SD up to 32 GB		
Audio and video	2.0-MP, fixed-focus, VGA, front-facing webcam	×	×
	5.0-MP, HDR auto-focus, HD, rear-facing webcam		
	One microphone		
	Integrated stereo speakers (2)		

Category	Description	HP 10 Plus 2201 Tablet	HP 10 2101 Tablet
Sensors	<ul style="list-style-type: none"> • Accelerometer • G-sensor • GPS 	×	×
Wireless	WLAN: 802.11 b/g/n, Miracast-compatible	×	×
Ports	<ul style="list-style-type: none"> • Micro USB 2.0 with OTG support • Micro SD Card Reader slot • Micro SIM slot • Audio jack: 3.5-mm with microphone • HDMI port 	×	×
Power requirements	<p>Supports a 2-cell, 7700-mAh, USB-charging battery</p> <p>Supports a 5-V/3-A USB cable AC adapter</p>	×	×
Operating system	Preinstalled: Android 4.4.2	×	×
Serviceability	End user replaceable parts: AC adapter and USB cable	×	×

2 External component identification

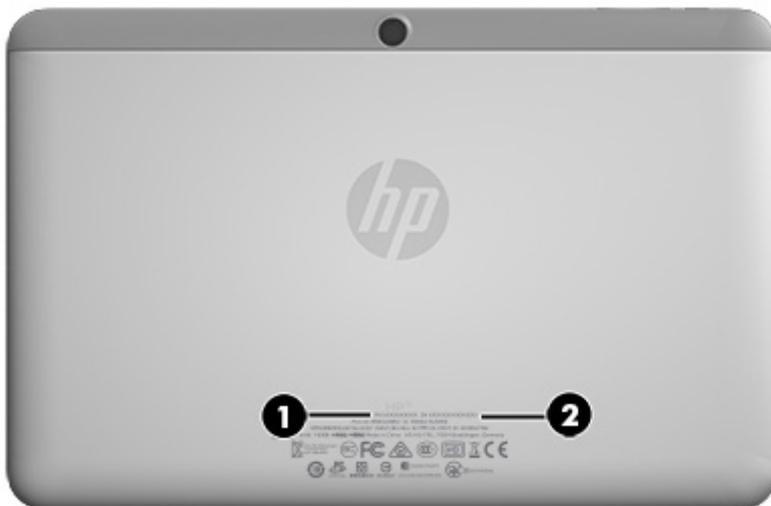


Item	Component	Item	Component
(1)	Power button	(6)	Micro USB port
(2)	Volume control buttons	(7)	Micro HDMI port
(3)	Microphone	(8)	Micro SD Card Reader slot
(4)	Front-facing webcam	(9)	Speakers
(5)	Audio-out (headphone)/Audio-in (microphone) jack		

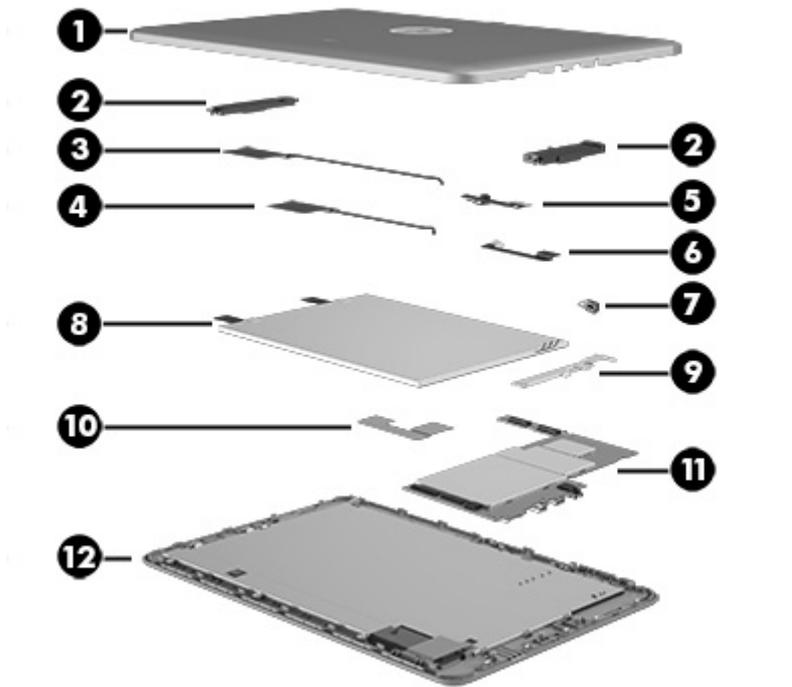
3 Illustrated parts catalog

Locating the tablet part number and serial number

The tablet part number **(1)** and serial number **(2)** are located on the tablet back cover. This information may be needed when travelling internationally or when contacting support.



Tablet major components



Item	Component	Spare part number
(1)	Back cover (includes rear-facing webcam lens)	782396-001
(2)	Speaker Kit (includes left and right speakers and cables)	784328-001
	Antenna Kit , includes:	784327-001
(3)	Wifi antenna cable and transceiver (includes double-sided adhesive)	
(4)	GPS antenna cable and transceiver (includes double-sided adhesive)	
(5)	5.0-MP, HDR auto-focus, HD rear-facing webcam (includes cable and double-sided adhesive)	782649-001
(6)	2.0-MP, fixed-focus, HD front-facing webcam (includes cable and double-sided adhesive)	782648-001
(7)	Microphone (includes cable and double-sided adhesive)	756038-001
(8)	Battery , 2-cell, 7700-mAh, USB-charging (includes cable and double-sided adhesive)	784326-001
(9)	I/O bracket	784324-001
(10)	Display panel cable:	
	For use only on HP 10 Plus 2201 Tablet models	782650-001
	For use only on HP 10 2101 Tablet models	782647-001
(11)	System board equipped 16-GB eMMC system storage	

Item	Component	Spare part number
	Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 2.0-GB of system memory for use only on HP 10 Plus 2201 Tablet models	791104-001
	Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 2.0-GB of system memory for use on all tablet models	784330-001
	Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 1.0-GB of system memory for use only on HP 10 2101 Tablet models	791103-001
(12)	Display panel assembly (includes TouchScreen cable):	
	10.1-in, 1920×1200, FHD, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel assembly for use only on HP 10 Plus 2201 Tablet models	782399-001
	10.1-in, 1280×800, IPS, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel assembly for use only on HP 10 2101 Tablet models	782397-001

Miscellaneous parts

Component	Spare part number
5-V/3-A AC adapter:	
For use in Argentina on all tablet models	757042-001
For use in Australia on all tablet models	757043-001
For use in the People's Republic of China on all tablet models	757280-001
For use in Europe only on HP 10 Plus 2201 Tablet models	747779-001
For use in India on all tablet models	757282-001
For use in North America on all tablet models	745229-001
For use in the United Kingdom on all tablet models	747780-001
Tablet:	
HP 10 Plus 2201 Tablet equipped with a 10.1-in, 1920×1200, FHD, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel; an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor; 2.0-GB of system memory, 16-GB eMMC system storage, and a 1-cell, 7700-mAh, lithium-polymer, USB-charging battery	780486-001
HP 10 2101 Tablet equipped with a 10.1-in, 1280×800, IPS, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel; an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor; 1.0-GB of system memory, 16-GB eMMC system storage, and a 1-cell, 7700-mAh, lithium-polymer, USB-charging battery	780485-001
Screw Kit	784325-001
USB extension cable	745230-001

Sequential part number listing

Spare part number	Description
745229-001	5-V/3-A AC adapter for use in North America on all tablet models
745230-001	USB extension cable
747779-001	5-V/3-A AC adapter for use in Europe only on HP 10 Plus 2201 Tablet models
747780-001	5-V/3-A AC adapter for use in the United Kingdom on all tablet models
756038-001	Microphone
757042-001	5-V/3-A AC adapter for use in Argentina on all tablet models
757043-001	5-V/3-A AC adapter for use in Australia on all tablet models
757280-001	5-V/3-A AC adapter for use in the People's Republic of China on all tablet models
757282-001	5-V/3-A AC adapter for use in India on all tablet models
780485-001	HP 10 2101 Tablet equipped with a 10.1-in, 1280×800, IPS, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel; an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor; 1.0-GB of system memory, 16-GB eMMC system storage, and a 1-cell, 7700-mAh, lithium-polymer, USB-charging battery
780486-001	HP 10 Plus 2201 Tablet equipped with a 10.1-in, 1920×1200, FHD, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel; an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor; 2.0-GB of system memory, 16-GB eMMC system storage, and a 1-cell, 7700-mAh, lithium-polymer, USB-charging battery
782396-001	Back cover (includes rear-facing webcam lens)
782397-001	10.1-in, 1280×800, IPS, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel assembly for use only on HP 10 2101 Tablet models (includes TouchScreen cable)
782399-001	10.1-in, 1920×1200, FHD, antiglare, 10-point MultiTouch, diagonal capacitive, wide-viewing angle, auto-rotate (selectable), tempered glass, LED backlight, display panel assembly for use only on HP 10 Plus 2201 Tablet models (includes TouchScreen cable)
782647-001	Display panel cable for use only on HP 10 2101 Tablet models
782648-001	2.0-MP, fixed-focus, HD front-facing webcam (includes cable and double-sided adhesive)
782649-001	5.0-MP, HDR auto-focus, HD rear-facing webcam (includes cable and double-sided adhesive)
782650-001	Display panel cable for use only on HP 10 Plus 2201 Tablet models
784324-001	I/O bracket
784325-001	Screw Kit
784326-001	Battery, 2-cell, 7700-mAh, USB-charging (includes cable and double-sided adhesive)
784327-001	Antenna Kit (includes GPS antenna cable and transceiver and Wifi antenna cable and transceiver)
784328-001	Speaker Kit (includes left and right speakers and cables)

Spare part number	Description
784330-001	System board equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, 2.0-GB of system memory, and 16-GB eMMC system storage for use on all tablet models
791103-001	System board equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, 1.0-GB of system memory, and 16-GB eMMC system storage for use only on HP 10 2101 Tablet models
791104-001	System board equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, 2.0-GB of system memory, and 16-GB eMMC system storage for use only on HP 10 Plus 2201 Tablet models

4 Removal and replacement preliminary requirements

Tools required

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

- Flat-bladed screw driver
- Magnetic screw driver
- Phillips PO screw driver
- Phillips P00 screw driver

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.

Drive handling

⚠ CAUTION: Drives are fragile components that must be handled with care. To prevent damage to the tablet, damage to a drive, or loss of information, observe these precautions:

Before removing or inserting a drive, shut down the tablet. If you are unsure whether the tablet is off or in Hibernation, turn the tablet on, and then shut it down through the operating system.

Before handling a drive, be sure that you are discharged of static electricity. While handling a drive, avoid touching the connector.

Before removing a diskette drive or optical drive, be sure that a diskette or disc is not in the drive and be sure that the optical drive tray is closed.

Handle drives on surfaces covered with at least one inch of shock-proof foam.

Avoid dropping drives from any height onto any surface.

After removing a drive, place it in a static-proof bag.

Avoid exposing a drive to products that have magnetic fields, such as monitors or speakers.

Avoid exposing a drive to temperature extremes or liquids.

If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "FRAGILE."

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 a bench worker	6,000 V	800 V	400 V
Removing DIPS from a plastic tube	2,000 V	700 V	400 V
Removing DIPS from a 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 a 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 non-conductive 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 non-conductive 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
- Non-conductive foam
- Conductive countertop 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
- Non-conductive 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

5 Removal and replacement procedures

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

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

There are as many as 10 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 (includes rear-facing webcam lens)	782396-001

Before disassembling the tablet, follow these steps:

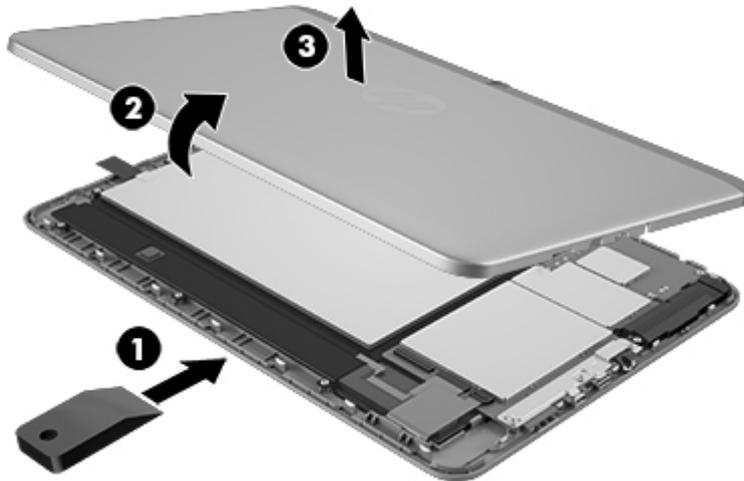
1. Turn off the tablet. If you are unsure whether the tablet is off or in Hibernation, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power cord from the tablet.
3. Disconnect all external devices from the tablet.

Remove the back cover:

CAUTION: Before positioning the tablet with display panel facing 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.

1. Position the tablet with the display panel facing down and the micro USB power connector toward you.
2. Use a case utility tool **(1)** or similar thin, plastic tool to separate the back cover from the display panel assembly.

3. Swing the back cover **(2)** up and back until it completely separates from the display panel assembly.
4. Remove the back cover **(3)**.



Reverse this procedure to install the back cover.

Battery

Description	Spare part number
Battery, 2-cell, 7700-mAh, USB-charging (includes cable and double-sided adhesive)	784326-001

Before removing the battery, follow these steps:

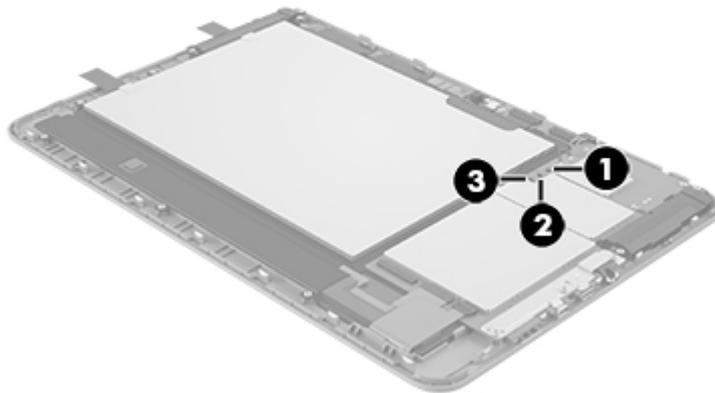
1. Turn off the tablet. If you are unsure whether the tablet is off or in Hibernation, turn the tablet on, and then shut it down through the operating system.
2. Disconnect the power from the tablet by unplugging the power cord from the tablet.
3. Disconnect all external devices from the tablet.
4. Remove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

⚠ 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.

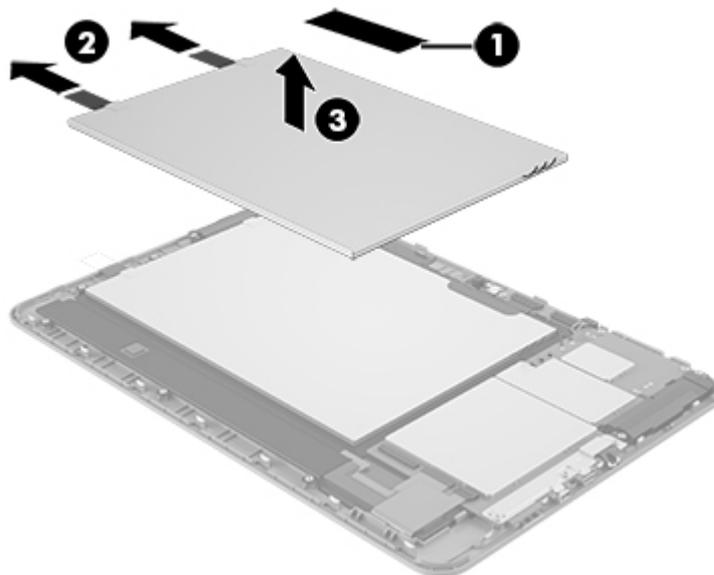
⚠ CAUTION: Removing a battery that is the sole power source for the tablet can cause loss of information. To prevent loss of information, save your work or shut down the tablet through the operating system before removing the battery.

Remove the battery:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



2. Release the tape (1) that secures the speaker and antenna cables to the battery.
3. Pull the battery adhesive release tabs (2) as far as they will go.
4. Remove the battery (3).



Reverse this procedure to install the battery.

Speakers

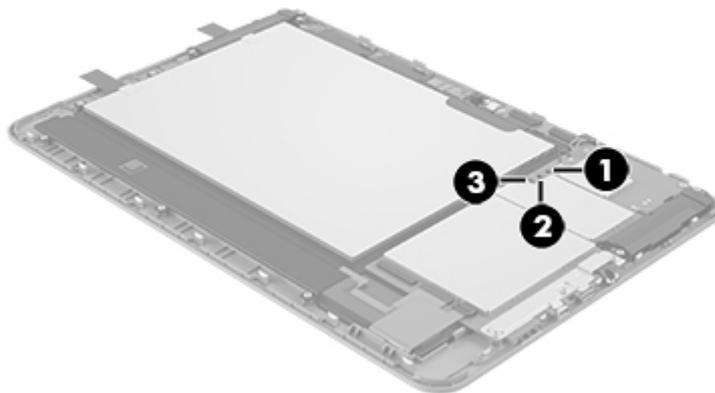
Description	Spare part number
Speaker Kit (includes left and right speakers and cables)	784328-001

Before removing the speakers, follow these steps:

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

Remove the speakers:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable

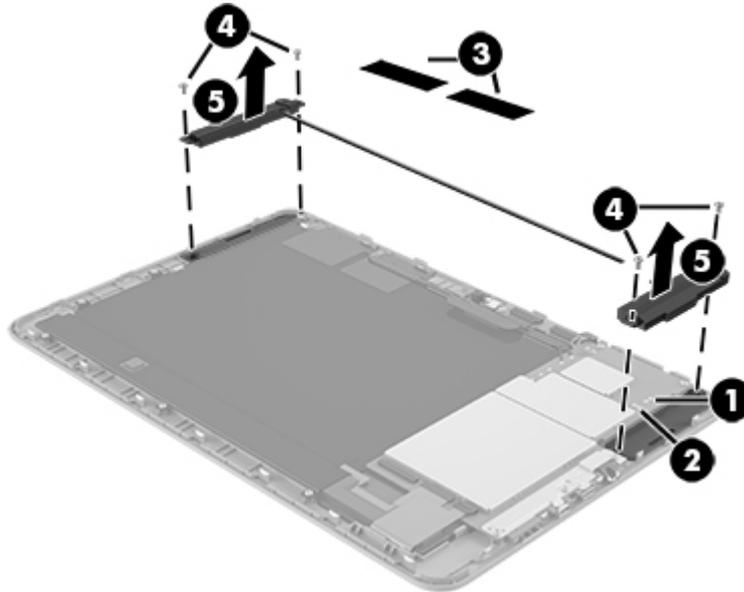


2. Unsolder the left speaker cables (1) from the contact points on the system board.

3. Unsolder the right speaker cables **(2)** from the contact points on the system board.

 **NOTE:** When installing the speakers, the right speaker red cable and the left speaker white cable should be soldered to the system board “positive” terminals. The right and left speaker black cables should be soldered to the system board “negative” terminals.

4. Release the tape **(3)** that secures the speaker cables to the battery.
5. Remove the four Phillips PM1 .6×4.1 screws **(4)** that secure the speakers to the display panel assembly.
6. Remove the speakers **(5)**.



Reverse this procedure to install the speakers.

Wifi antenna

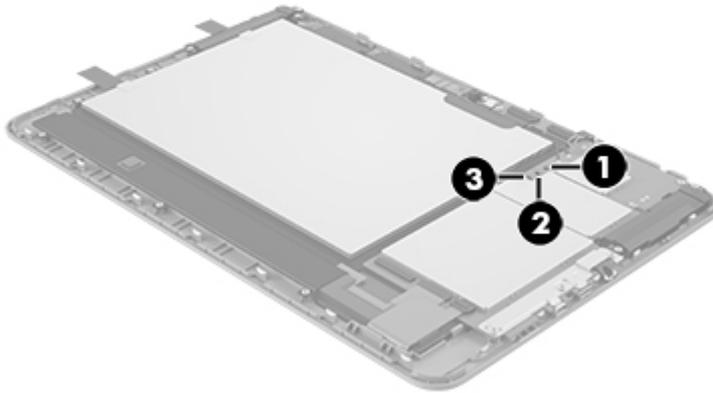
 **NOTE:** The Wifi antenna is included in the Antenna Kit, spare part number 784327-001.

Before removing the Wifi antenna, follow these steps:

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

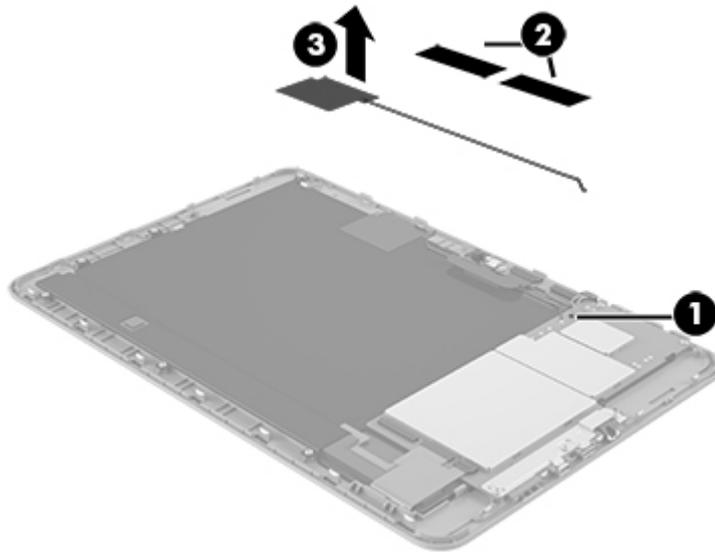
Remove the Wifi antenna:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



2. Unsolder the Wifi antenna cable (1) from the contact point on the system board.
3. Release the tape (2) that secures the Wifi antenna cable to the battery.

4. Detach the Wifi antenna transceiver **(3)** from the display panel assembly. (The Wifi antenna transceiver is attached to the display panel assembly with double-sided adhesive.)



5. Remove the Wifi antenna cable and transceiver.

Reverse this procedure to install the Wifi antenna.

GPS antenna

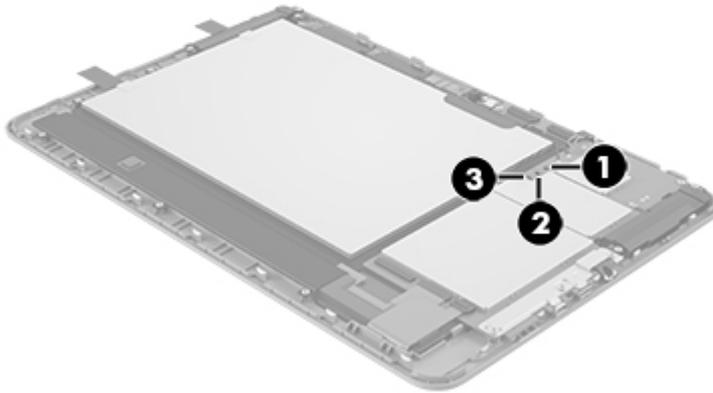
 **NOTE:** The GPS antenna is included in the Antenna Kit, spare part number 784327-001.

Before removing the GPS antenna, follow these steps:

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

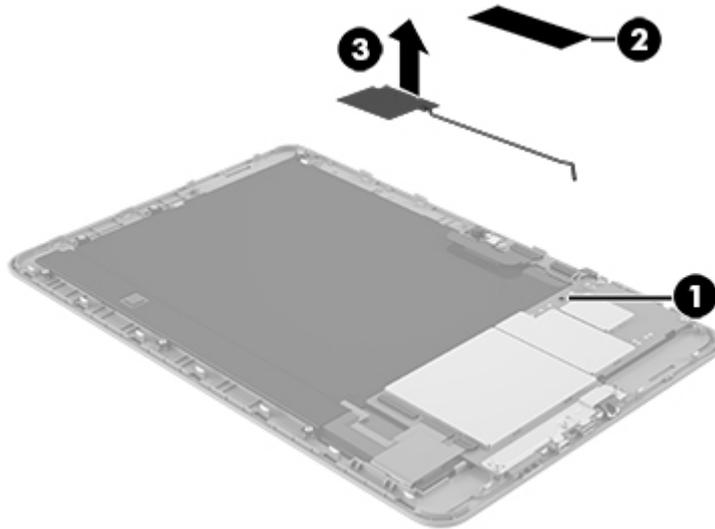
Remove the GPS antenna:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



2. Unsolder the GPS antenna cable (1) from the contact point on the system board.
3. Release the tape (2) that secures the GPS antenna cable to the battery.

4. Detach the GPS antenna transceiver **(3)** from the display panel assembly. (The GPS antenna transceiver is attached to the display panel assembly with double-sided adhesive.)



5. Remove the GPS antenna cable and transceiver.

Reverse this procedure to install the GPS antenna.

Rear-facing webcam

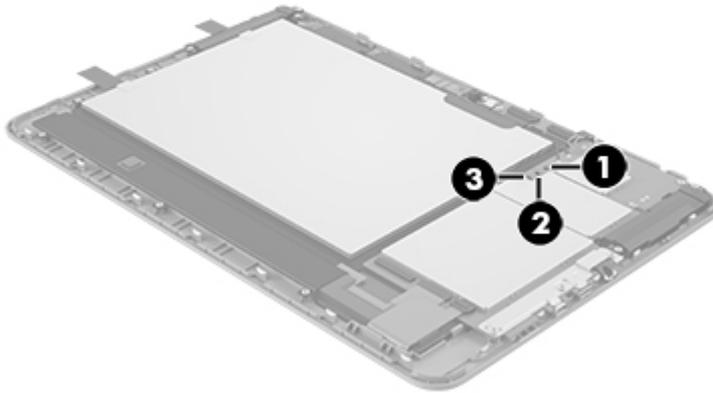
Description	Spare part number
5.0-MP, HDR auto-focus, HD rear-facing webcam (includes cable and double-sided adhesive)	782649-001

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

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

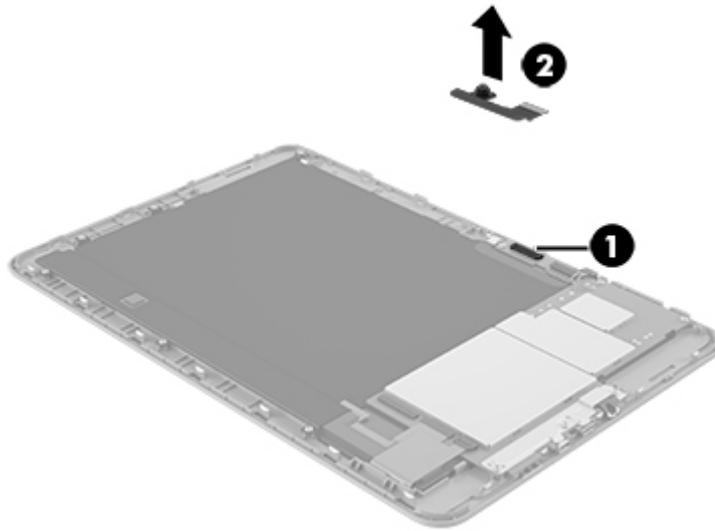
Remove the rear-facing webcam:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



2. Release the zero insertion force (ZIF) connector **(1)** to which the rear-facing webcam cable is attached, and then disconnect the rear-facing webcam cable from the system board.

3. Detach the rear-facing webcam (2) from the display panel assembly. (The rear-facing webcam is attached to the display panel assembly with double-sided adhesive.)



4. Remove the rear-facing webcam and cable.

Reverse this procedure to install the rear-facing webcam.

Front-facing webcam

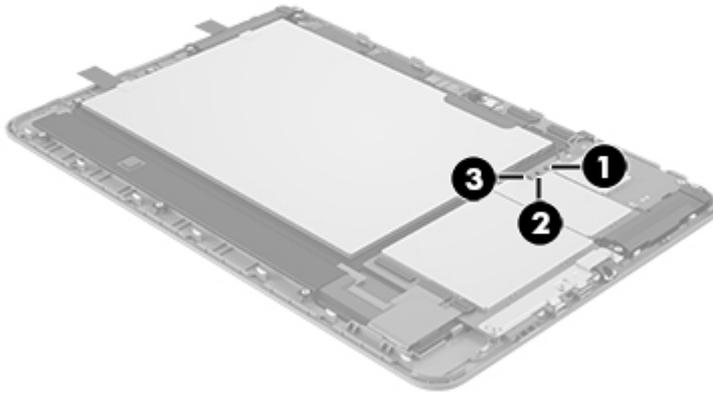
Description	Spare part number
2.0-MP, fixed-focus, HD front-facing webcam (includes cable and double-sided adhesive)	782648-001

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

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

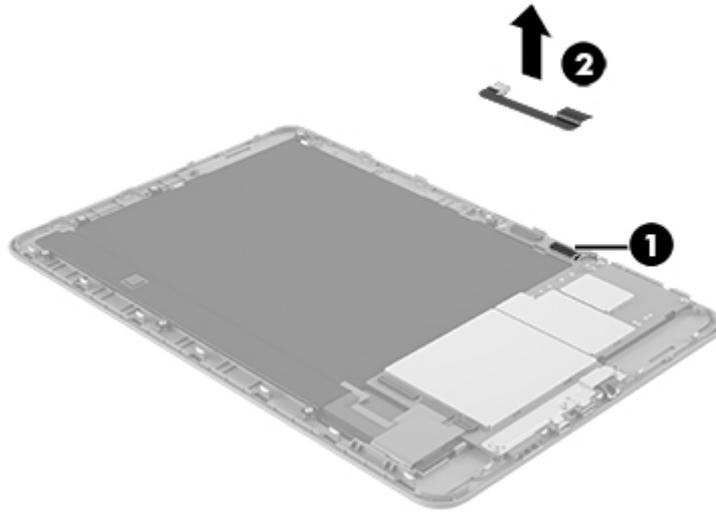
Remove the front-facing webcam:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



2. Release the ZIF connector **(1)** to which the front-facing webcam cable is attached, and then disconnect the front-facing webcam cable from the system board.

3. Detach the front-facing webcam (**2**) from the display panel assembly. (The front-facing webcam is attached to the display panel assembly with double-sided adhesive.)



4. Remove the front-facing webcam and cable.

Reverse this procedure to install the front-facing webcam.

Microphone

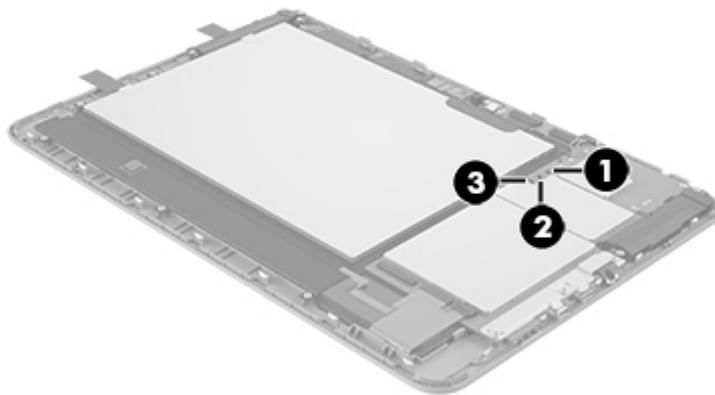
Description	Spare part number
Microphone (includes cable and double-sided adhesive)	756038-001

Before removing the microphone, follow these steps:

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

Remove the microphone:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable

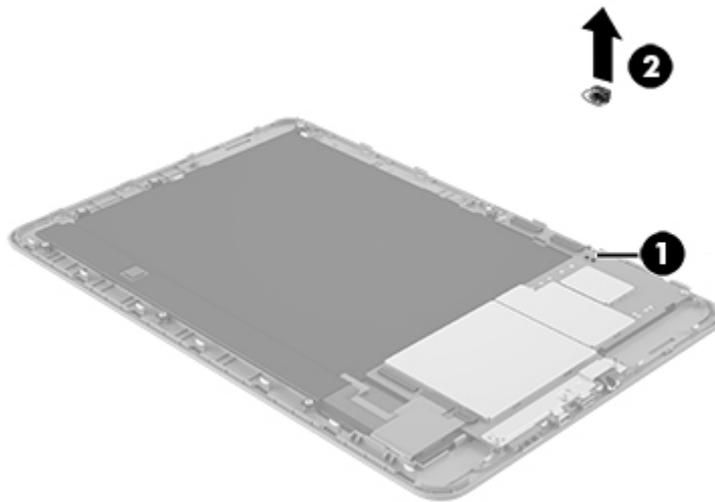


2. Unsolder the microphone cables (1) from the contact points on the system board.



NOTE: When installing the microphone, the red microphone cable should be soldered to the system board “positive” terminal. The black microphone cable should be soldered to the system board “negative” terminal.

3. Detach the microphone **(2)** from the display panel assembly. (The microphone is attached to the display panel assembly with double-sided adhesive.)



4. Remove the microphone and cable.

Reverse this procedure to install the microphone.

Display panel cable

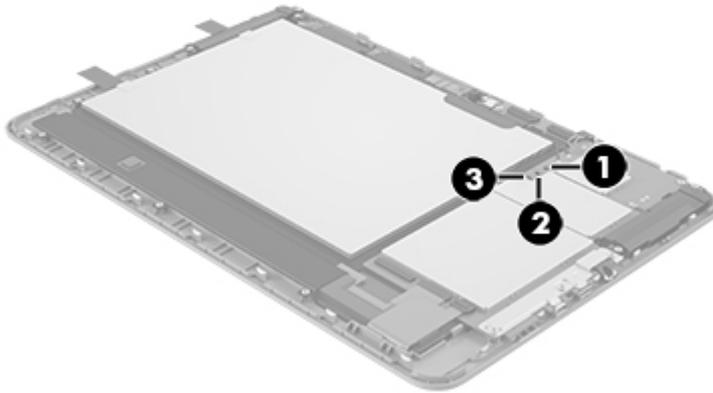
Description	Spare part number
For use only on HP 10 Plus 2201 Tablet models	782650-001
For use only on HP 10 2101 Tablet models	782647-001

Before removing the display panel cable, follow these steps:

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

Remove the display panel cable:

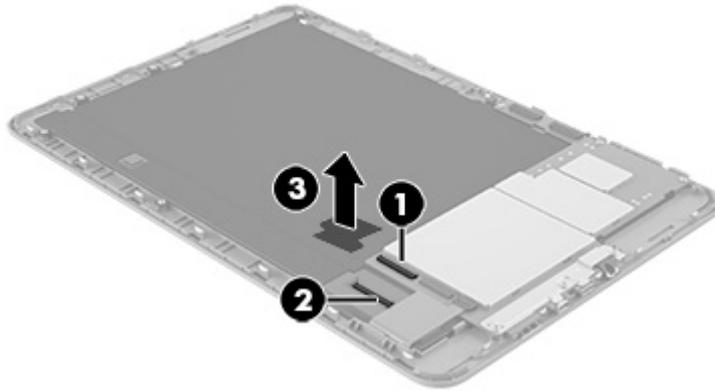
1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable



 **NOTE:** Steps 2 and 3 apply to HP 10 Plus 2201 Tablet models. See steps 4 and 5 for display panel cable removal instructions for and HP 10 2101 Tablet models.

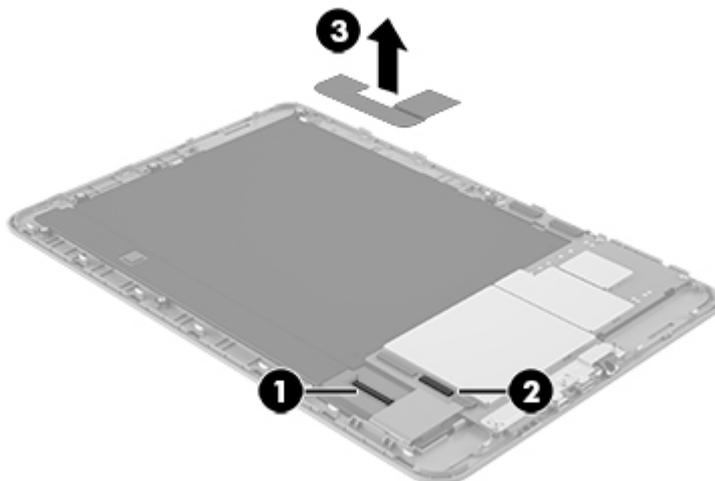
2. Release the system board ZIF connector **(1)** to which the display panel cable is attached, and then disconnect the display panel cable from the system board.
3. Release the display panel assembly ZIF connector **(2)** to which the display panel cable is attached, and then disconnect the display panel cable from the display panel assembly.

4. Remove the display panel cable **(3)**.



 **NOTE:** Steps 4 and 5 apply to HP 10 2101 Tablet models. See steps 2 and 3 for display panel cable removal instructions for HP 10 Plus 2201 Tablet models.

5. Release the system board ZIF connector **(1)** to which the display panel cable is attached, and then disconnect the display panel cable from the system board.
6. Release the display panel assembly ZIF connector **(2)** to which the display panel cable is attached, and then disconnect the display panel cable from the display panel assembly.
7. Remove the display panel cable **(3)**.



Reverse this procedure to install the display panel cable.

System board

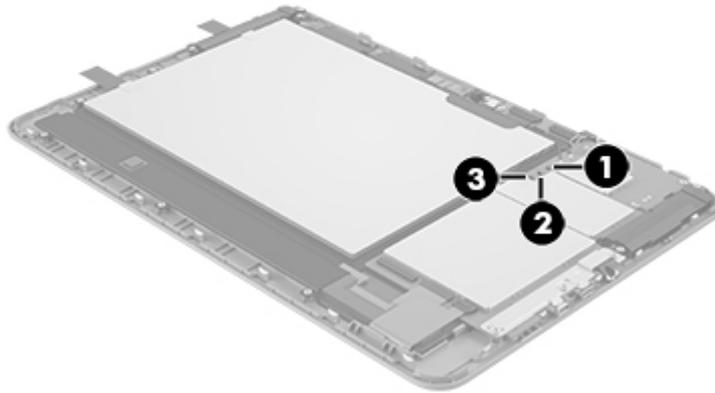
Description	Spare part number
System board equipped 16-GB eMMC system storage	
Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 2.0-GB of system memory for use only on HP 10 Plus 2201 Tablet models	791104-001
Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 2.0-GB of system memory for use on all tablet models	784330-001
Equipped with an Allwinner A31 ARM Cortex-A7 quad core 1.0-GHz processor, and 1.0-GB of system memory for use only on HP 10 2101 Tablet models	791103-001

Before removing the system board, follow these steps:

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

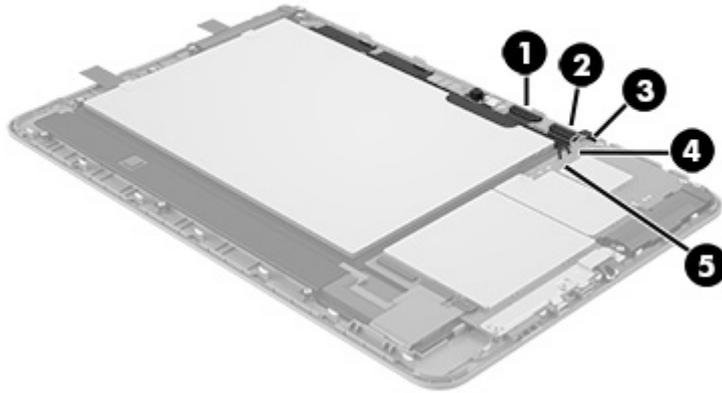
Remove the system board:

1. Unsolder the battery cables from the system board in the following sequence:
 - (1) Black battery cable
 - (2) White battery cable
 - (3) Red battery cable

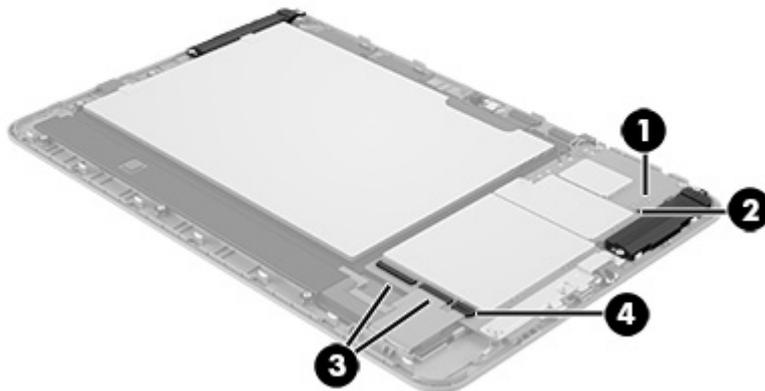


2. Disconnect the rear-facing webcam cable (1) from the system board.
3. Disconnect the front-facing webcam cable (2) from the system board.
4. Unsolder the microphone cables (3) from the contact points on the system board.
5. Unsolder the GPS antenna cable (4) from the contact point on the system board.

6. Unsolder the Wifi antenna cable **(5)** from the contact point on the system board.



7. Unsolder the left speaker cables **(1)** from the contact points on the system board.
8. Unsolder the right speaker cables **(2)** from the contact points on the system board.
9. Release the system board ZIF connector **(3)** (varying by tablet model) to which the display panel cable is attached, and then disconnect the display panel cable from the system board.
10. Release the system board ZIF connector **(4)** to which the TouchScreen cable is attached, and then disconnect the TouchScreen cable from the system board.

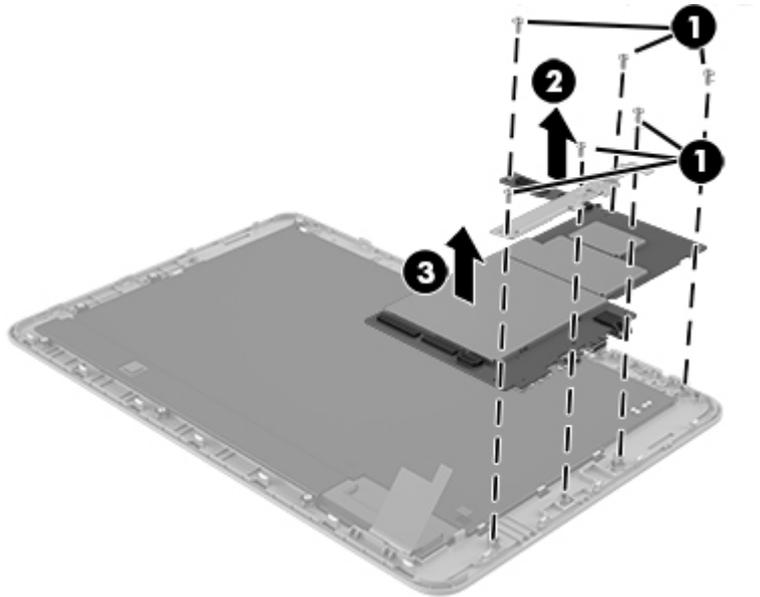


11. Remove the six Phillips PM1.6×4.1 screws **(1)** that secure the system board to the display panel assembly.

12. Remove the I/O bracket **(2)**.

The I/O bracket is available using spare part number 784324-001.

13. Remove the system board **(3)**.



Reverse this procedure to install the system board.

6 Power cord set 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 3-conductor power cord set included with the tablet meets the requirements for use in the country or region where the equipment is purchased.

Power cord sets 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 power cord set must be at least 1.0 m (3.3 ft) and no more than 2.0 m (6.5 ft).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country or region where the power cord set will be used.
- The power cord sets must have a minimum current capacity of 10 amps and a nominal voltage rating of 125 or 250 V AC, as required by the power system of each country or region.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C13 connector for mating with the appliance inlet on the back of the tablet.

Requirements for specific countries and regions

Country/region	Accredited agency	Applicable note number
Australia	EANSW	1
Austria	OVE	1
Belgium	CEBC	1
Canada	CSA	2
Denmark	DEMKO	1
Finland	FIMKO	1
France	UTE	1

Country/region	Accredited agency	Applicable note number
Germany	VDE	1
Italy	IMQ	1
Japan	METI	3
The Netherlands	KEMA	1
Norway	NEMKO	1
The People's Republic of China	COC	5
South Korea	EK	4
Sweden	CEMKO	1
Switzerland	SEV	1
Taiwan	BSMI	4
The United Kingdom	BSI	1
The United States	UL	2

1. The flexible cord must be Type HO5VV-F, 3-conductor, 1.0-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.
2. The flexible cord must be Type SPT-3 or equivalent, No. 18 AWG, 3-conductor. The wall plug must be a two-pole grounding type with a NEMA 5-15P (15 A, 125 V) or NEMA 6-15P (15 A, 250 V) configuration.
3. The appliance coupler, flexible cord, and wall plug must bear a "T" mark and registration number in accordance with the Japanese Dentori Law. The flexible cord must be Type VCT or VCTF, 3-conductor, 1.00-mm² conductor size. The wall plug must be a two-pole grounding type with a Japanese Industrial Standard C8303 (7 A, 125 V) configuration.
4. The flexible cord must be Type RVV, 3-conductor, 0.75-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.
5. The flexible cord must be Type VCTF, 3-conductor, 0.75-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.

7 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>.

Index

A

- AC adapter, spare part numbers 7, 8
- antenna
 - removal 19, 21
 - spare part number 5, 8, 19, 21
- Antenna Kit, spare part number 5, 8, 19, 21
- audio, product description 1
- audio-in jack 3
- audio-out jack 3

B

- back cover
 - removal 15
 - spare part number 5, 8, 15
- battery
 - removal 16
 - spare part number 5, 8, 16
- buttons
 - power 3
 - volume control 3

C

- cables, service considerations 10
- chipset, product description 1
- connectors, service considerations 10

D

- display panel assembly, spare part numbers 6, 8
- display panel cable
 - removal 29
 - spare part numbers 5, 8, 29
- display panel, product description 1

drives

- precautions 11
- preventing damage 11

E

- electrostatic discharge 11
- equipment guidelines 14

F

- front-facing webcam
 - location 3
 - removal 25
 - spare part number 5, 8, 25

G

- GPS antenna
 - removal 21
 - spare part number 5, 8, 21
- graphics, product description 1
- grounding guidelines 11
- guidelines
 - equipment 14
 - grounding 11
 - packaging 13
 - transporting 13
 - workstation 13

H

- HDMI port 3
- headphone jack 3

I

- I/O bracket
 - removal 35
 - spare part number 5, 8, 35

J

- jacks
 - audio-in 3

- audio-out 3
- headphone 3
- microphone 3

M

- memory, product description 1
- microphone
 - location 3
 - product description 1
 - removal 28
 - spare part number 5, 8, 28
- microphone jack 3
- model name 1

O

- operating system, product description 2

P

- packaging guidelines 13
- plastic parts, service considerations 10
- ports
 - HDMI 3
 - product description 2
 - USB 3
- power button 3
- power cord, set requirements 36
- power requirements, product description 2
- processor, product description 1
- product description
 - audio 1
 - chipset 1
 - display panel 1
 - graphics 1
 - memory 1
 - microphone 1
 - operating system 2

- ports 2
- power requirements 2
- processors 1
- product name 1
- sensors 2
- serviceability 2
- storage 1
- video 1
- wireless 2
- product name 1

R

- rear-facing webcam
 - removal 23
 - spare part number 5, 8, 23

S

- Screw Kit, spare part number 7, 8
- SD Card Reader slot 3
- sensors, product description 2
- service considerations
 - cables 10
 - connectors 10
 - plastic parts 10
- serviceability, product description 2
- Speaker Kit, spare part number 5, 8, 18
- speakers
 - location 3
 - removal 18
 - spare part number 5, 8, 18
- storage, product description 1
- system board
 - removal 32
 - spare part numbers 5, 9, 32

T

- tablet
 - major components 5
 - spare part numbers 7, 8
- transporting guidelines 13

U

- USB extension cable, spare part number 7, 8
- USB port 3

V

- video, product description 1
- volume control button 3

W

- webcam
 - removal 23, 25
 - spare part numbers 5, 8, 23, 25
- Wifi antenna
 - removal 19
 - spare part number 5, 8, 19
- wireless, product description 2
- workstation guidelines 13