

iMac (24-inch, M1, 2021, Two ports)

Repair Manual

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Introduction

This manual includes technical instructions for replacing genuine Apple parts in Mac and is intended for individual technicians with the knowledge, experience, and tools required to repair electronic devices.

Important

- Read the entire manual first. If you're not comfortable performing the repairs as instructed in this manual, don't proceed.
- Always use the latest version of this document available at support.apple.com/en_US/manuals/ macdesktops.



Warning

Failure to follow the repair instructions or to use genuine Apple parts or proper tools may cause electric shock or other safety issues and lead to personal injury or death.



(1) Caution

Failure to follow the repair instructions or to use genuine Apple parts or proper tools may damage the Mac, parts, or other property, or compromise the device's functionality.

Warranty information

Damage caused by repairs performed outside of Apple or the Apple Authorized Service Provider network is not covered by Apple's warranty or AppleCare plans. Such damage may cause future repairs to be subject to out-of-warranty costs or render the device ineligible for future repairs by Apple or Apple Authorized Service Providers.

Tools and parts

Ordering tools and parts

You can learn how to order genuine Apple parts and tools at support.apple.com/self-service-repair. During the purchase process, enter the manual ID LVHLQJ to indicate that you've read this manual in its entirety and agree that you have the knowledge and experience to perform your intended repair.

Software tools

Apple Diagnostics can check your Mac for hardware issues.

A System Configuration step may be required at the end of your repair. System Configuration is a postrepair software tool that completes the repair for genuine Apple parts. Running System Configuration has a number of purposes that vary based on the part replaced.

What System Configuration does	Why it's important
Updates replacement logic board with device serial number	Replacement logic boards must be updated with your device's serial number to ensure that Apple Pay, FaceTime, iMessage, and iCloud services, such as Find My, can communicate safely and securely with your device.
Transfers factory calibration values	Certain parts like displays, cameras, and ambient light sensors have calibration values that are customized to each individual part during manufacturing. Transferring these values ensures maximum performance and quality after a repair.
Links Secure Enclave and biometric authentication parts	After repair of a logic board or a biometric authentication part (Touch ID), linking the biometric sensors to the Secure Enclave on the logic board is required to ensure device security.
Ensures repair integrity	After a hardware repair, software checks are performed to ensure repair integrity. Repair integrity means that a genuine Apple part has been correctly installed.
Assigns wireless region	To comply with regional communications regulations, a wireless region must be assigned to your logic board.
Updates firmware	Keeping firmware up to date ensures that the device has all the latest security and performance features.

System Configuration requires a strong Wi-Fi network capable of 1.0 Mbps download and upload speeds, with less than 400 ms latency and less than 2% packet loss. Estimated data usage to run System Configuration is 6–22 MB.

The device must be running the latest version of macOS and not a beta version.

Learn how to initiate the System Configuration process at support.apple.com/self-service-repair.

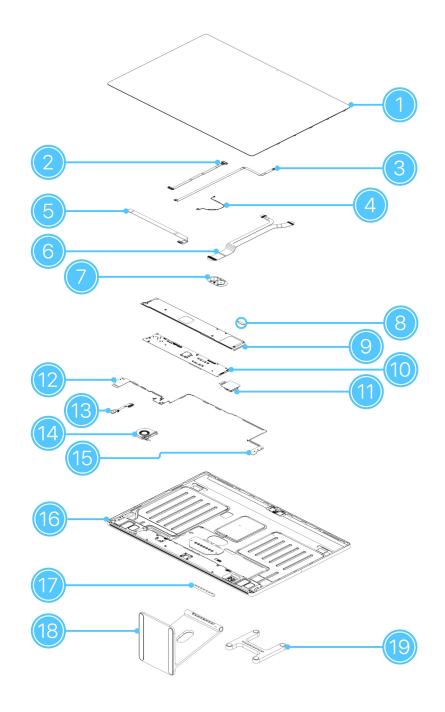
Alerts

Failure to follow alerts could result in electric shock, injury, data loss, or damage to the device, parts, or other property.

Danger	Instructions for reducing risk of electric shock and electrocution
Warning	Instructions for reducing risk of personal injury
Caution	Instructions for reducing risk of data loss or device hardware damage
Important	Supplemental information for successfully completing procedures; neither a Warning nor a Caution

Exploded View and Orderable Parts

This section shows parts, part names, and part numbers for iMac (24-inch, M1, 2021, Two ports).



Part Name	Number
1. Display	661-16565, silver
	661-16569, green
	661-16571, blue
	661-16573, pink
2. Display backlight flex cable	923-05587
3. Microphone flex cable	923-05155
4. Battery board cable	923-05589
5. Audio board flex cable	923-05677
6. Camera and embedded DisplayPort flex cable	923-05586
7. Battery board	923-05182
8. USB-C board cowling	923-05567
9. Logic board cover	923-05134
10. Logic board	661-16557, 8-core CPU, 7-core GPU, 8 GB, 256 GB 661-16558, 8-core CPU, 7-core GPU, 8 GB, 512 GB 661-16559, 8-core CPU, 7-core GPU, 8 GB, 1 TB 661-16560, 8-core CPU, 7-core GPU, 16 GB, 256 GB 661-16561, 8-core CPU, 7-core GPU, 16 GB, 512 GB 661-16564, 8-core CPU, 7-core GPU, 16 GB, 1 TB
11. USB-C board	923-05575, silver 923-05583, green 923-05584, blue 923-05585, pink
12. Wi-Fi and Bluetooth antenna	923-05136
13. Audio board	923-05138, silver 923-05140, green 923-05673, blue 923-05674, pink
14. Fan	923-05162
15. Wi-Fi antenna	923-05137
16. Housing	923-05546, silver 923-05547, green 923-05548, blue 923-05549, pink

Part Name	Number
17. Flange	923-05175, silver
	923-05177, green
	923-05178, blue
	923-05179, pink
18. Stand	923-05190, silver
	923-05191, green
	923-05192, blue
	923-05193, pink
19. VESA mount adapter	923-05189
Part Name (Not Shown)	Number
143W power adapter	661-18535, silver
	661-02203, green
	661-02206, blue
	661-02207, pink
143W power adapter with Ethernet	661-18536, silver
	661-18538, green
	661-18539, blue
	661-18540, pink
Battery board adhesive	923-05154
Power cord	923-05141

Note: Read the Important alert to ensure that you order the correct power cord.

Important

The English (US) power cord part number begins with 923. Other regional power cord part numbers also begin with 923 but include a regional prefix. For example, the power cord part number for Italy begins with CI923. Identify the correct regional prefix from the list below:

- В United Kingdom
- CI
- Belgium/Luxembourg, France, Germany, Poland, Spain, Sweden

Screws



Caution

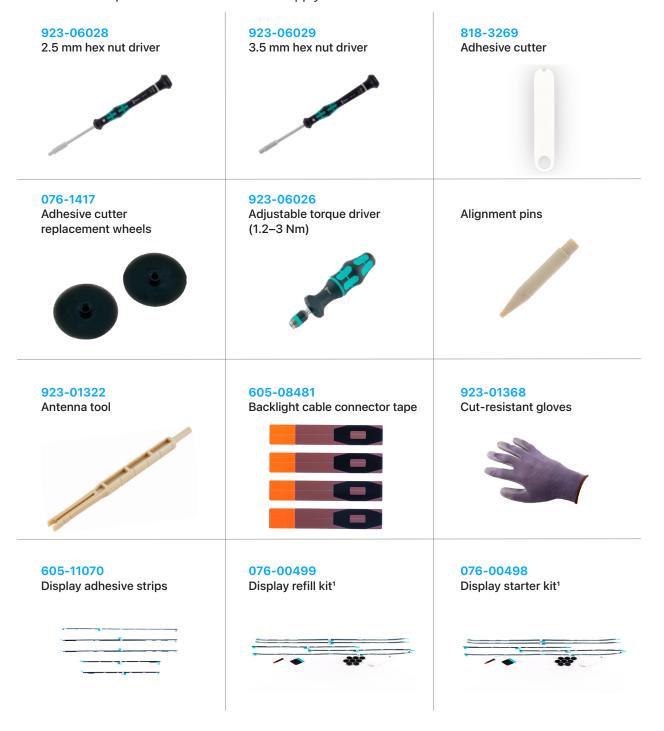
- Save undamaged screws and cowlings for reassembly.
- Note the location of screws and cowlings during removal. Then organize them to ensure that you reinstall them in the correct location.
- Both overtightened screws and loose screws can damage parts.

923-05173	923-05174	923-05554 Torx Plus 10IP Stand (5) VESA mount adapter (7)	923-05555
Torx® T3	Torx T3		Torx T3
Antenna ground clip (2)	Antenna ground clip (3)		USB-C board (2)
	E Jun		2
923-05556	923-05557	923-05558	923-05559
2.5 mm hex nut	Torx T3	Torx T3	Torx T3
Logic board (4)	Logic board cover (14)	Fan (1)	Adapter board connector cowling, low-speed flex cable (5)
923-05560	923-05561	923-05562	923-05573
Torx T3	Torx T3	Torx T3	2.5 mm hex nut
Adapter board (5)	Logic board connector cowling, low-speed flex cable (3)	USB-C board cowling (2)	Logic board (6)

923-05574 Torx T3 Bluetooth and Wi-Fi antenna (3) Wi-Fi antenna (3)	923-05668 Torx T3 Audio board to antenna (1)	923-05669 Torx T3 Audio board (1)	923-05670 Torx T3 Audio board flex cable (1)
923-05671 3.5 mm hex nut Audio board (1)	923-06114 Torx Plus 10IP Stand (2)	_	_

Tools

Tools with part numbers are available for purchase from the Self Service Repair Store. Tools without part numbers can be purchased from electronics supply retailers.



923-0416 Display support stand



EarPods with 3.5 mm headphone plug



ESD mat



ESD-safe tweezers



ESD wrist strap with clip or plug



Ethanol wipes²



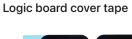
Isopropyl alcohol (IPA) wipes



922-1731 Kapton tape



605-09054





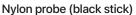
Magnetizer



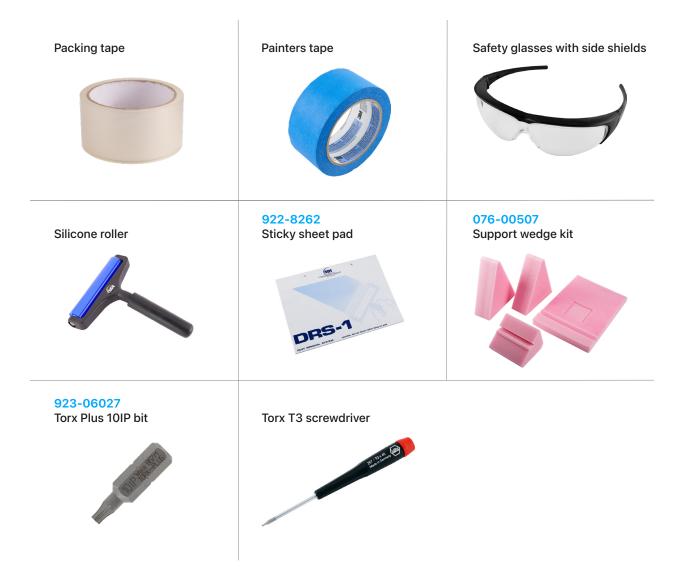
Microterry polishing cloth



922-5065







¹The display starter kit and the display starter kit include the following tools:

- Adhesive cutter
- Adhesive cutter replacement wheels
- Backlight cable connector tape
- Display adhesive strips
- Logic board cover tape

²Ethanol wipes must contain at least 90% ethanol and no additives except isopropyl alcohol

Electrical Safety



The power supply remains powered when the device is plugged in whether or not the device has been turned on. Don't touch the logic board or power supply while the device is plugged into an electrical outlet.

Be aware of the following precautions to avoid electric shock:

- Never remove or install any parts while the device is plugged into an electrical outlet.
- Always wait at least 2 minutes after unplugging the device to allow the logic board or power supply or both to discharge.
- Don't touch the logic board or power supply before the 2-minute discharge wait time has passed.

Broken Glass Safety



The display glass will break into pieces if mishandled. If the display breaks and glass gets in your eye, perform the following steps:

- Immediately seek medical attention.
- Don't rub your eye.
- Don't wash your eye. Washing your eye can move the shard of glass and cause more damage.
- Keep your eye closed or loosely patch it to keep it still.

Tools

- Cut-resistant gloves
- Packing tape
- Safety glasses with side shields

Perform the following steps to secure a display with broken glass:

- 1. Put on safety glasses with side shields and the cut-resistant gloves.
- 2. If the display is broken and is still attached to the housing, secure the broken glass with packing tape and remove the display.
- 3. Lay the display on a smooth, clean work surface.
- 4. Thoroughly cover the broken display with packing tape.



First Steps

Always perform the following steps before starting a repair:

- Back up the Mac.
- If replacing the logic board, turn off Find My Mac. Choose Apple Menu > System Preferences > Apple ID. Select iCloud in the sidebar. Then deselect the Find My Mac checkbox. If you're unable to access the Apple menu, continue performing the following steps.
- Turn off the Mac.
- If you were unable to turn off Find My Mac from the Apple menu, go to iCloud.com/find on a different device. Select All Devices. Select the device you want to remove. Then select Remove from Account.
- Unplug the power cord from both the electrical outlet and the back of the device. Keep the power cord unplugged while the device is being repaired.
- Disconnect all other cables from the device.
- Clear and clean your workspace.
- Put on an ESD wrist strap and attach it to a properly grounded ESD mat.



Caution

ESD (electrostatic discharge, or the release of static electricity) can damage electronic components.

Be aware of the following while performing a repair:

- The manual for this model may show images of other models, but the procedures are the same. Ensure that you use the correct tools for the model you're repairing.
- Take your time. Thoroughly read all instructions and alerts.
- Magnetizing the screwdrivers will make it easier to work with small screws.
- Use only Kapton tape to secure cables and keep them out of the way when removing and reinstalling parts.
- The end of each flex cable must align with its connector. Press the end of each flex cable to its connector until it clicks to ensure that it's secure.

Display

Before You Begin



Danger

Read Electrical Safety before you begin.



Read Broken Display before you begin.

Tools

- Adhesive cutter
- Adhesive cutter replacement wheels
- Display support stand
- Ethanol or isopropyl alcohol (IPA) wipes
- Microterry polishing cloth
- Nylon probe (black stick)
- Painters tape
- Safety glasses with side shields
- Silicone roller
- Sticky sheet pad
- Support wedges





(!) Caution

This procedure requires System Configuration. After you've completed all removal and reassembly steps, learn how to initiate the System Configuration process at support.apple.com/self-service-repair.

Important

This procedure may require replacement tape on the display backlight flex cable connector. Replacement tape is included in the display starter kit and display refill kit. It's not a separate orderable part.

Removal



(!) Caution

The display is attached to the housing with display adhesive strips. Each adhesive strip has one foam layer surrounded by two adhesive layers. To remove the display, use the adhesive cutter to cut the adhesive strips. When you cut the adhesive strips, you are cutting mostly through the foam layer. If a wheel is nicked, you must replace it.





Important

Center the stand support wedge and cover the power port before you begin.

1. Place the stand wedge between the stand and housing, as shown. Ensure that the wedge is centered and the power port is covered.

> Note: If the computer has a VESA mount adapter, stand the computer upright in the display support stand.

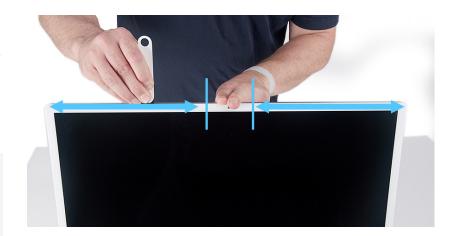


2. Insert the adhesive cutter at a 90-degree angle between the display and the housing. Run the adhesive cutter across the top of the computer, avoiding the 3-inch area surrounding the camera.



Caution

To avoid damaging the camera and display, don't run the adhesive cutter across the camera. Damage to the camera requires a display replacement.



3. Lay the computer on a flat surface with the display faceup. Run the adhesive cutter between the display and the housing on the left and right sides.

> Note: If the computer has a VESA mount adapter, lay the computer flat on the VESA support wedge. The VESA support wedge has a square cutout to accommodate the VESA mount adapter. Position the bottom edge of the display closest to the slot in the wedge.



4. Run the adhesive cutter between the display and housing on the bottom edge of the computer.



5. Run the adhesive cutter back and forth between the display and housing around all four edges of the computer until the wheel moves with minimal resistance.



Caution

To avoid damaging the camera, don't run the adhesive cutter in the 3-inch area surrounding the camera.



6. Insert the flat end of the black stick halfway to its notch between the display and housing. Slide the black stick up and down to cut any remaining adhesive.

Note:

- If you feel resistance, pull the black stick out slightly. Then continue to slide it up and down while you vary the insertion depth at points of resistance.
- If you continue to feel resistance, stop and remove the black stick. Install a new wheel in the adhesive cutter and repeat steps 1 through 5.



Caution

- Don't twist, pry, or insert the black stick past its notch. Forcing the black stick between the display and housing may crack the display.
- To avoid damaging the camera, don't run the adhesive cutter in the 3-inch area surrounding the camera.



7. Rotate the computer so the top edge of the display is closest to you. If fully released, the display will extend slightly over the top edge of the housing.

Important

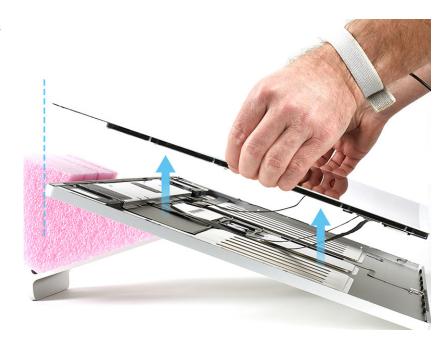
This ensures that the display has disengaged from the display hangers inside the housing.

8. Hold the display by the edges and slowly lift it straight up about 1 to 2 inches.



Caution

Don't strain the flex cables that are connected to the logic board and back of the display.



9. Insert the bottom edge of the display into the slot in the stand support wedge (1) as you slowly tilt up the top edge of the display (2).



10. Insert the two triangle support wedges into the housing as shown.



Note: Use the VESA support slot wedge and two triangle support wedges for models configured with a VESA mount adapter.

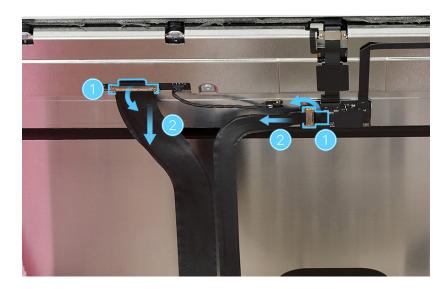


11. Peel the polyester film tape from the display backlight flex cable (1) and save it for reassembly. Pull the end of the display backlight flex cable straight down and out of the connector (2).



12. Flip up the locking levers of the camera and embedded DisplayPort (eDP) flex cable connectors (1). Slide both ends of the eDP flex cable out of their connectors (2).

> Note: The camera and eDP flex cable is a single cable with three ends. The third end connects to the logic board.



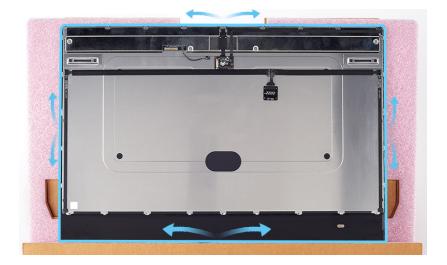
13. Lift the display off the support wedges and set it on the display support stand.

14. Peel the display adhesive from the edges of the display.



!\ Caution

To prevent damage to the polyester film on the display, don't peel residual adhesive from the corners of the display.



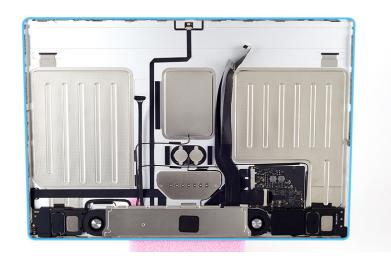
15. Use an ethanol wipe or IPA wipe to remove any remaining display adhesive from the edges of the display. Allow the surfaces to dry for at least 1 minute.



Caution

Don't use ethanol wipes or IPA wipes on the front of the display or to remove anything other than residual display adhesive.

- 16. Peel the display adhesive from the edges of the housing.
- 17. Use an ethanol wipe or IPA wipe to remove any remaining display adhesive from the edges of the housing. Allow the surfaces to dry for at least 1 minute.



18. Use Kapton tape to secure the camera and eDP flex cable and display backlight flex cable to the housing.

Reassembly



(!) Caution

The bottom adhesive strip is model specific. Ensure that you have the correct bottom adhesive strip for the model you're repairing.

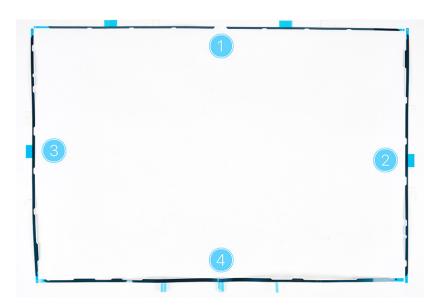
- 1. Place the display adhesive strips on a flat surface and check them for damage and wrinkles.
 - · 946-25206 (1)
 - 946-25207 (2)
 - · 946-25208 (3)
 - 946-19175 (4)



Caution

Damaged strips can cause cosmetic gaps and light leakage. They can also weaken the bond between the display and the housing. If the adhesive strips are damaged or wrinkled, replace them.

Note: The display adhesive strips have two layers of adhesive with a foam layer between them. There is a paper release liner on the underside and a plastic release liner on the top side. The colors of the release liners may vary.





2. Lay the housing flat as shown. Peel off a short section of the paper release liner from one display adhesive strip.

> **Note:** If the computer has a VESA mount adapter, lay the computer flat on the VESA support wedge.

Important

Don't remove the plastic release liners on the display adhesive strips yet.

- 3. Align the display adhesive strip with the corresponding edge of the housing and press the exposed adhesive onto the housing.
- 4. As you continue to align the display adhesive strip, peel off sections of the paper release liner and press the adhesive to the edge of the housing until the entire strip adheres.



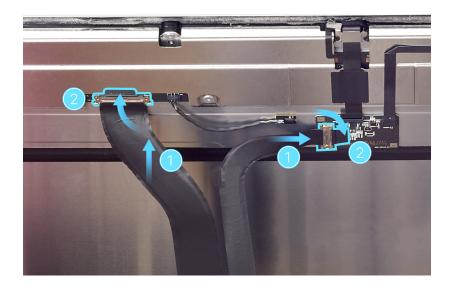
- 5. Repeat steps 2 through 4 to install the remaining display adhesive strips. Then continue to step 6.
- 6. Inspect the alignment of the display adhesive strips. Ensure that there are no wrinkles or air pockets.
- 7. Rotate the housing so the top edge is closest to you. Position the support wedges in the housing as shown.
- 8. Peel the Kapton tape from the camera and eDP flex cable and display backlight flex cable.



9. Insert the bottom edge of the display into the slot in the stand support wedge. Rest the display on the triangle support wedges.



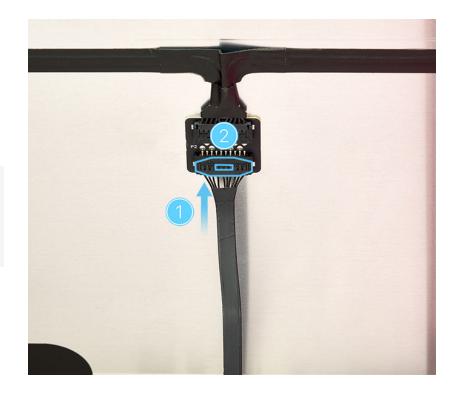
10. Slide the two ends of the eDP and camera flex cable into the connectors (1) on the back of the display. Then flip down the locking levers (2).



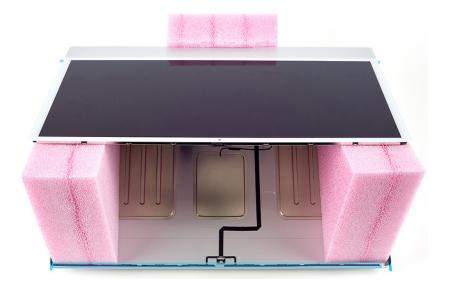
- 11. Slide the end of the display backlight flex cable into the connector on the back of the display (1).
- 12. Adhere the tape onto the display backlight flex cable connector (2).

Important

If the tape was damaged during removal, discard it and use replacement tape.



13. Slightly lift the top edge of the display. Remove the two triangle support wedges from the housing.



Display | Reassembly

14. Slowly pull the display out of the slot in the stand support wedge (1). Then lower the top edge of the display toward the housing (2).



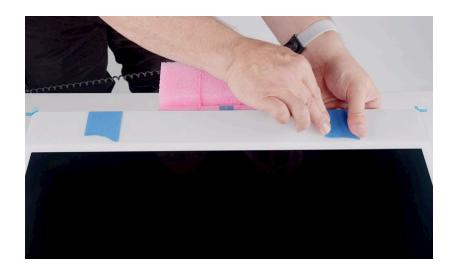
Don't strain the flex cables as you move the display.



15. Position the display flat on the housing. The top edge of the display should hang just over the top edge of the housing.



16. Apply two strips of painters tape to the bottom of the computer to temporarily secure the display to the housing.



17. Hold the display flush against the housing as you carefully stand up the computer. The display will shift slightly as it hooks onto the display hangers and aligns with the edges of the housing.

> Note: If your computer has a VESA mount adapter, stand the computer upright in the display support stand.



/!\ Caution

The display is only partially held in place by the display hangers in the housing. Hold the display flush against the housing to ensure that the display doesn't fall off the display hangers.



- 18. Ensure that the display and housing are aligned on all four sides. Then carefully adjust the two strips of painters tape so they fit snugly over the bottom of the computer.
- 19. Separate the display just enough to remove the release liners from the four display adhesive strips on the top half of the computer.



/!\ Caution

If the display separates too much from the housing, the display will unhook from the display hangers and may fall off the housing.

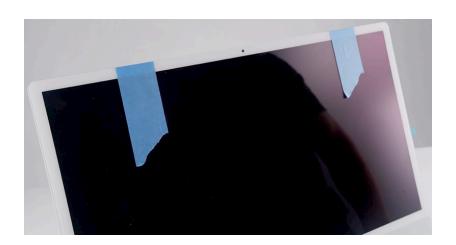




20. Press the top of the display to adhere it to the display adhesive strips on the housing.



21. Apply two strips of painters tape to the top of the computer to temporarily secure the display to the housing.



22. Remove the two strips of painters tape from the bottom of the computer.



23. Separate the display from the housing just enough to remove the release liners from the four display adhesive strips on the bottom half of the computer. Start near the middle and peel the release liners toward the bottom corners of the computer in the order shown.

> **Note:** If the computer has a VESA mount adapter, lay the computer flat on the VESA support wedge.



Caution

If the display separates too much from the housing, the display will unhook from the display hangers and may fall off the housing.







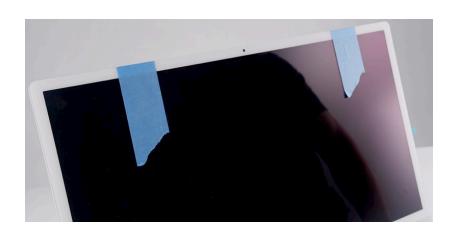
24. Press the bottom of the display to adhere it to the display adhesive strips on the housing.



25. Ensure that the four edges of the display and housing are aligned. If they aren't aligned, repeat the removal and reassembly steps.



26. Remove the two strips of painters tape from the top of the computer.



27. Remove the liner from the sticky sheet pad. Roll the silicone roller back and forth on the sticky sheet pad to clean it.



28. Roll the silicone roller back and forth along all four edges of the display to adhere the display adhesive strips.

> Note: If the computer has a VESA mount adapter, stand the computer upright in the display support stand.





29. Clean the display with the polishing cloth.



30. Remove the stand wedge.





Caution

- After you've completed all removal and reassembly steps, learn how to initiate the System Configuration process at support.apple.com/self-service-repair.
- System Configuration is required if you've installed a replacement display or logic board.
- If you replaced the logic board, the computer will start up in Diagnostics mode until you complete System Configuration.
- If you replaced the display, the display's brightness and True Tone may not function properly until you complete System Configuration.

Battery Board and Batteries

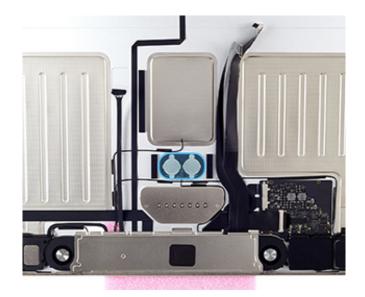
Before You Begin

Remove the following part before you begin:

Display

Tools

- ESD-safe tweezers
- Ethanol wipes or isopropyl alcohol (IPA) wipes
- Nylon probe (black stick)
- Support wedges

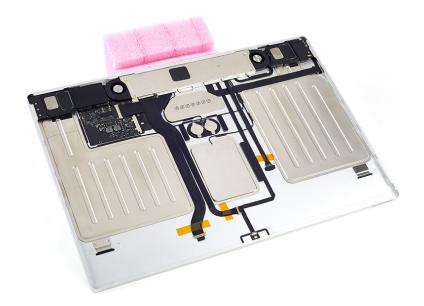


Important

This model requires two CR2016 batteries. Replacement batteries can be purchased from electronics supply retailers.

Removal

1. Position the housing with the back facedown and the top closest to you.



2. Position the pointed end of the black stick underneath the battery cable and close to the connector. Hold the battery cable in place against the black stick and lift the end of the battery cable off the connector.



3. Use ESD-safe tweezers to grasp the battery adhesive tab and gently peel it from the battery board.



4. Use ESD-safe tweezers to grasp the battery adhesive tab. Keep the tweezers close and parallel to the housing. Then slowly twist the tweezers to wrap the adhesive around them.



Caution

Don't pull up the battery adhesive strip.



5. Pull the tweezers down. As the battery adhesive strip stretches, continue to slowly pull and twist the tweezers until you have removed the entire strip.

> **Note:** Hold the battery board in place as it loosens.



(!) Caution

If the battery adhesive strip breaks and can't be retrieved, don't forcibly pry the battery board. Stop the repair and reassemble the computer. For service, visit support. apple.com/repair.



- 6. Remove the battery board from the housing and place it on an ESD-safe surface.
- 7. Turn over the battery board. Peel up any remaining adhesive. Use an ethanol wipe or IPA wipe to clean any adhesive residue from the back of the battery board.
- 8. Use a black stick to gently push the batteries outward to remove the batteries from the battery board.



Reassembly



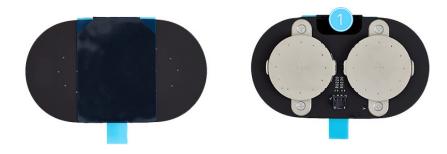
Warning

Install only a CR2016 battery. There is a risk of explosion if the battery is installed incorrectly or replaced with an incorrect type of battery. Dispose of used batteries according to local environmental laws and guidelines.

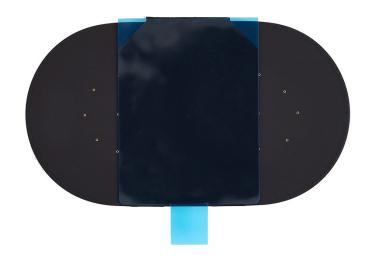
1. If you removed the batteries or are installing new batteries, slide the positive (+) side of the batteries up into the battery compartments on the battery board



2. If you're reinstalling the same battery board, apply a new adhesive strip to the back of the battery board as shown. Fold down the adhesive tab (1) between the batteries.



3. Peel the large blue release liner from the back of the battery board to expose the battery board adhesive.



- 4. Align the top edge of the battery board with the cutout in the housing. Then lay down the battery board.
- 5. Press and hold the battery board for 15 seconds in the areas shown in blue to adhere it to the housing.



Caution

Don't press on the battery compartments.



6. Press the end of the battery cable to the connector.



Reinstall the following part to complete reassembly:

Display

Logic Board Cover

Before You Begin

Remove the following part before you begin:

Display

Tools

- Support wedges
- Torx T3 screwdriver



- This procedure may require replacement pieces of tape, which are not separate orderable parts.
- The tape for the opening over the USB-C board (1) is included with a replacement logic board cover.
- The tape for the middle of the logic board cover (2) is included in the display starter kit and the display refill kit.





Removal

1. Position the housing. with the back facedown and the top closest to you.



2. Peel the tape off the middle of the logic board cover. Save the tape for reassembly.



3. Use the T3 screwdriver to remove the 14 T3 screws (923-05557) from the logic board cover.



4. Tilt up the logic board cover. Then pull it toward you to remove it from the housing.



Don't touch the logic board with the logic board cover.



Reassembly

- 1. Look for foam on the underside of the logic board cover where the speaker cables connect to the logic board.
 - If the logic board cover has foam, don't adhere foam over the speaker cable connectors on the logic board.
 - If the logic board cover doesn't have foam, adhere foam over the speaker cable connectors on the logic board.
- 2. Slide the logic board cover into the housing and lay it flat over the logic board.



Caution

Don't touch the logic board with the logic board cover.



3. Use the T3 screwdriver to reinstall the 14 T3 screws (923-05557) into the logic board cover.



4. Adhere the tape onto the middle of the logic board cover.

Important

If the tape was damaged during removal, discard it and use replacement tape.



Important

If you replaced the logic board cover, adhere the replacement tape onto the logic board cover over the USB-C board.



Reinstall the following part to complete reassembly:

Display

Stand

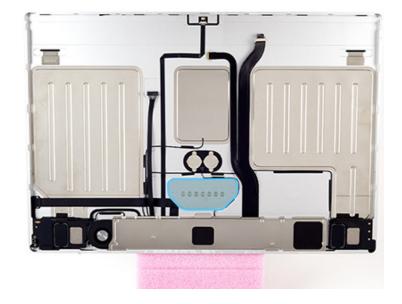
Before You Begin

Remove the following part before you begin:

Display

Tools

- Adjustable torque driver (1.2–3 Nm)
- Support wedges
- Torx Plus 10IP bit



Important

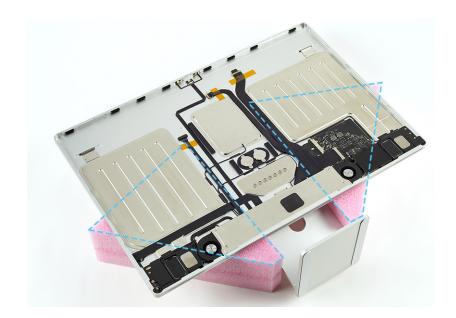
This procedure requires alignment pins, which only come with a new stand. They aren't separate orderable parts.

Removal

1. Remove the stand support slot wedge from the stand.



2. Lay the triangle support wedges used for display removal on their sides. Then place the housing on top of them as shown with the back of the housing facing down and the stand positioned between the triangle support wedges.



- 3. Insert the Torx Plus 10IP bit into the 1.2–3 Nm adjustable torque driver.
- 4. Use the adjustable torque driver and Torx Plus 10IP bit to remove the seven 10IP screws in the order shown.

Note: The left two screws (4, 6) are shorter than the other five (1-3, 5, 7).

- · (923-05554) (1-3, 5, 7)
- · (923-06114) (4, 6)

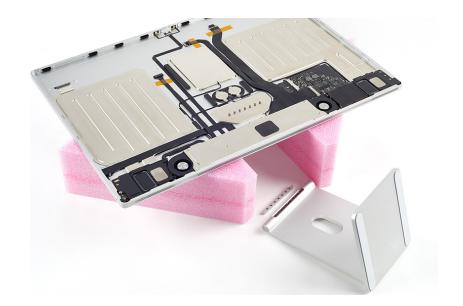


Push down firmly when removing the screws to avoid stripping the screw heads.





4. Remove the flange and stand from under the housing.



Reassembly

Note: If you're swapping a stand for a VESA mount adapter, follow the reassembly steps in the VESA mount adapter reassembly procedure.

- 1. Position the stand upright.
- 2. Firmly press the two alignment pins into the outer screws holes of the stand.



3. Install the flange over the alignment pins.



- 4. Lift the housing. Then position the housing so the alignment pins line up with the outer screw holes of the housing.
- 5. Move the housing so the alignment pins insert into the two outer screw holes of the housing.



- 6. Insert the Torx Plus 10IP bit into the 1.2–3 Nm adjustable torque driver. Set the torque value to 1.4 Nm.
- 7. Use the adjustable torque driver and Torx Plus 10IP bit to partially reinstall five 10IP screws in the order shown.

Note: One of the screws (4) is shorter than the other screws.

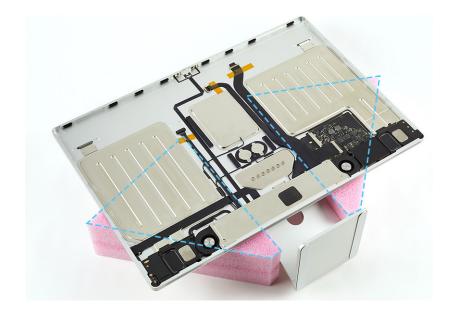
- · (923-05554) (1-3, 5)
- · (923-06114) (4)



8. Remove the alignment pins by rotating them counterclockwise and pulling them out of the housing.



9. Lay the triangle support wedges on their sides. Then place the housing on top of them as shown with the back of the housing facing down and the stand positioned between the triangle support wedges.



10. Use the adjustable torque driver and Torx Plus 10IP bit to partially reinstall the remaining two 10IP screws in the outer screw holes.

> Note: One screw (6) is shorter than the other screw.

- · (923-06114) (6)
- · (923-05554) (7)



11. Keep the Torx Plus 10IP bit in the 1.2–3 Nm adjustable torque driver. Ensure that the torque value is still set to 1.4 Nm.

12. Use the adjustable torque driver and Torx Plus 10IP bit to fully reinstall the seven 10IP screws in the order shown.



Caution

Push down firmly when tightening the screws to avoid stripping the screw heads.





13. Place the computer upright. Hold the top and bottom edges of the housing. Then gently push the housing back and forth to ensure that it tilts back and forth smoothly.



Reinstall the following part to complete reassembly:

Display

VESA Mount Adapter

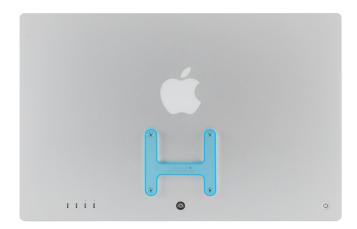
Before You Begin

Remove the following part before you begin:

Display

Tools

- Adjustable torque driver (1.2–3 Nm)
- Support wedges
- Torx Plus 10IP bit



Important

This procedure requires alignment pins, which only come with a new VESA mount adapter. They aren't separate orderable parts.

Removal

- 1. Lay the computer flat in the VESA support slot wedge with the back of the housing facing down and the logic board closest to you.
- 2. Insert the Torx Plus 10IP bit into the 1.2-3 Nm adjustable torque driver.
- 3. Use the adjustable torque driver and Torx Plus 10IP bit to remove the seven 10IP screws (923-05554) in the order shown.



Caution

Push down firmly when removing the screws to avoid stripping the screw heads.





4. Lift the computer off the support stand.

> Note: The VESA mount adapter and VESA flange will remain in the VESA support slot wedge.



Reassembly

Note: If you're swapping a VESA mount adapter for a stand, follow the reassembly steps in the stand reassembly procedure.

1. Firmly press the two alignment pins into the outer screw holes in the middle of the VESA mount adapter.



2. Install the flange over the alignment pins and onto the VESA mount adapter.



3. Lift the housing. Then align the housing so the screw holes line up with the alignment pins.



4. Slide the housing onto the alignment pins. Ensure the alignment pins enter the outer screw holes of the housing.



- 5. Insert the Torx Plus 10IP bit in the 1.2–3 Nm adjustable torque driver. Set the torque value 1.4 Nm.
- 6. Use the adjustable torque driver and Torx Plus 10IP bit to partially reinstall the seven 10IP screws (923-05554) in the order shown.



7. Use the adjustable torque driver and Torx Plus 10IP bit to fully reinstall the seven 10IP screws in the order shown.



Push down firmly when installing the screws to avoid stripping the screw heads.





Reinstall the following part to complete reassembly:

Display

Audio Board

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- 3.5 mm hex nut driver
- EarPods with 3.5 mm headphone plug
- ESD-safe tweezers
- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver



Important

The power button flex cable connects to the audio board. Damage to the power button flex cable requires a replacement housing.

Removal

- 1. Partially peel up the audio board flex cable (1) to access the connector near the edge of the housing.
- 2. Use the flat end of the black stick to press and hold the "PUSH" button on the audio board zero-insertion force (ZIF) connector (2). Use ESD-safe tweezers to grasp the end of the flex cable and slide it out of the connector (3).



3. Use the T3 screwdriver to remove the upper three T3 screws (923-05574) and the lower T3 screw (923-05668) from the Wi-Fi and Bluetooth antenna.

> **Note:** The bottom screw has a larger head than the top three screws.



- 4. Gently move aside the Wi-Fi and Bluetooth antenna to access the power button flex cable underneath.
- 5. Flip up the locking lever of the power button flex cable connector. Then use ESD-safe tweezers to slide the end of the power button flex cable out of the connector on the audio board.



Caution

The power button flex cable is a nonremovable part. If the flex cable is damaged, you must replace the housing.



6. Use the T3 screwdriver to remove the upper T3 screw (923-05670) and the lower T3 screw (923-05669) from the audio board.



7. Use the 3.5 mm hex nut driver to remove the 3.5 mm hex screw (923-05671) from the audio board.



8. Insert the flat end of the black stick under the audio board to loosen the adhesive in the areas shown (1, 2). Then use ESD-safe tweezers to gently peel up the audio board and remove it from the housing.



Reassembly

1. Align the screw holes in the audio board with the screw holes in the housing.



2. Use the T3 screwdriver to partially reinstall the upper T3 screw (923-05670) and the lower T3 screw (923-05669) into the audio board.



3. Use the 3.5 mm hex nut driver to partially reinstall the 3.5 mm hex screw (923-05671).



4. Plug the EarPods into the 3.5 mm headphone jack to ensure audio board alignment. Adjust the alignment of the audio board until the plug is easy to insert and remove.



- 5. Use the T3 screwdriver to fully reinstall the T3 screws. Then use the 3.5 mm hex nut driver to fully reinstall the 3.5 mm hex screw.
- 6. Unplug the EarPods.

7. Readhere the top portion of the audio board to the housing.

> Note: If you're installing a replacement part, remove the adhesive backing from the top portion of the audio board, then adhere it to the housing.



8. Slide the end of the audio board flex cable into the ZIF connector.



Caution

Ensure that the audio board flex cable is fully inserted into the ZIF connector. A partially connected flex cable may prevent the computer from turning on.



9. Slide the end of the power button cable into the connector on the audio board. Then flip down the locking lever.



- 10. Position the Wi-Fi and Bluetooth antenna in the housing.
- 11. Use the T3 screwdriver to reinstall the upper three T3 screws (923-05574) and the lower T3 screw (923-05668) into the Wi-Fi and Bluetooth antenna.

Important

Reinstall the T3 screw with the larger head into the bottom screw hole on the Wi-Fi and Bluetooth antenna.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Audio Board Flex Cable

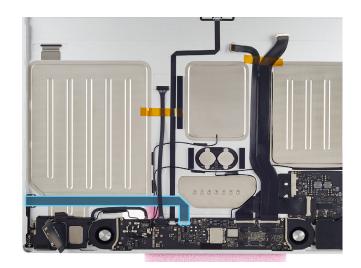
Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- ESD-safe tweezers
- Nylon probe (black stick)
- Support wedges



Removal

1. Use the flat end of the black stick to press and hold the "PUSH" button on the audio board flex cable ZIF connector on the logic board. Then slide the end of the audio board flex cable out of the connector.



- 2. Peel up the audio board flex cable from the housing (1) to access the ZIF connector near the edge of the housing.
- 3. Use the flat end of the black stick to press and hold the "PUSH" button on the audio board ZIF connector (2) on the housing. Use ESD-safe tweezers to grasp the end of the flex cable and slide it out of the connector (3).



Reassembly

- 1. Position the replacement audio board flex cable in the housing.
- 2. Use the flat end of the black stick to press and hold the "PUSH" button on the audio board flex cable ZIF connector on the housing. Then use ESD-safe tweezers to slide the end of the flex cable into the connector.
- 3. Use the flat end of the black stick to press the "PUSH" button on the audio board flex cable ZIF connector on the logic board. Then slide the end of the flex cable into the connector.



4. Remove the adhesive backing from the audio board flex cable. Then press along the length of the audio board flex cable to adhere it to the housing.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Battery Board Cable

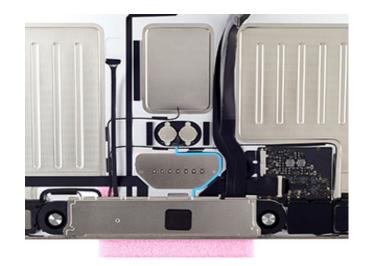
Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- Nylon probe (black stick)
- Support wedges

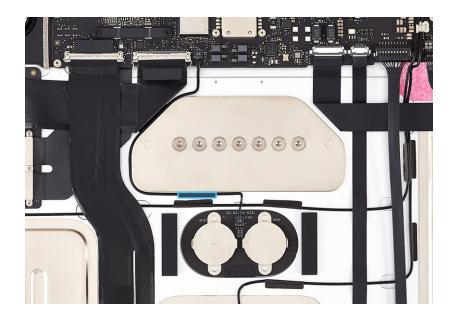


Removal

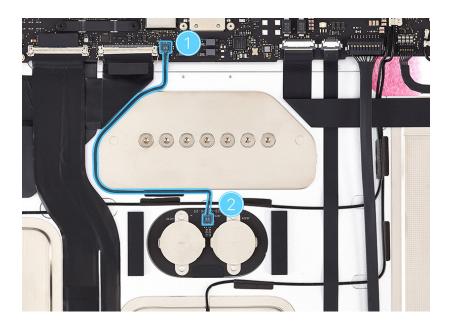
1. Position the housing with the back facedown and the top closest to you.



2. Gently peel up the polyester film tape attached to the housing in the area shown. Don't remove the tape from the battery board cable. Remove the cable from the housing.

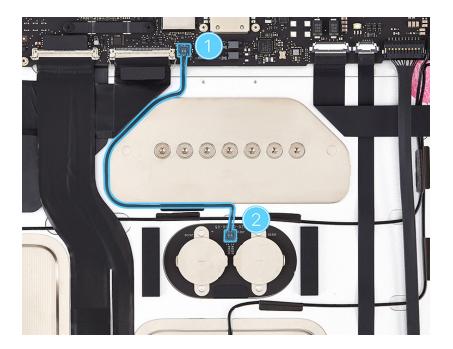


3. Use the black stick to lift the end of the battery board cable off the connector on the logic board (1). Then lift the other end of the battery board cable off the connector on the battery board (2).



Reassembly

1. Position the battery board cable in the housing as shown. Press one end of the battery board cable to the connector on the logic board (1). Then press the other end of the cable to the battery board (2).



2. Adhere the polyester film tape to the battery board cable and housing as shown.

Important

If you're installing a replacement battery board cable, peel the adhesive backing off the tape before you adhere it to the housing.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Camera and Embedded DisplayPort Flex Cable

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

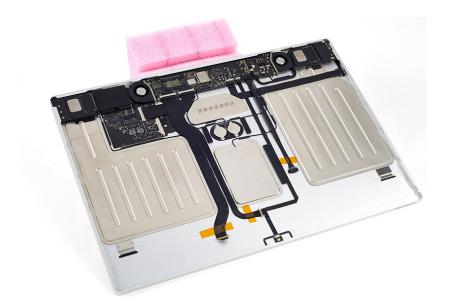
Tools

- Nylon probe (black stick)
- Support wedges

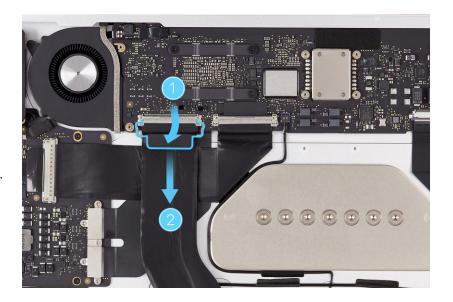


Removal

1. Position the housing with the back facedown and the top closest to you.

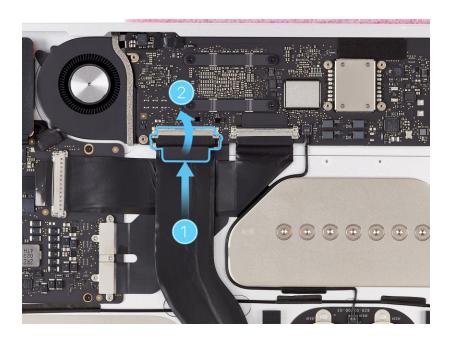


- 2. Pull the tab to flip up the locking bar on the camera and embedded DisplayPort (eDP) flex cable (1).
- 3. Slide the end of the camera and eDP flex cable straight out of the connector to remove it from the housing (2).



Reassembly

1. Slide the end of the camera and eDP flex cable into the connector (1). Then flip down the locking bar (2).



Reinstall the following parts to complete reassembly:

- Logic board cover
- **Display**

Display Backlight Flex Cable

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

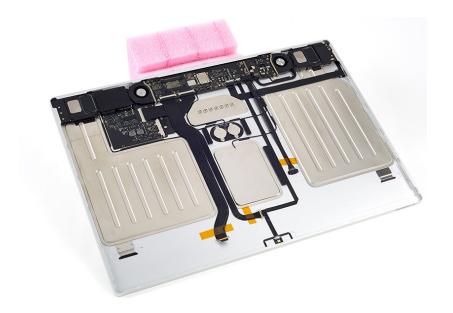
Tools

- Nylon probe (black stick)
- Support wedges



Removal

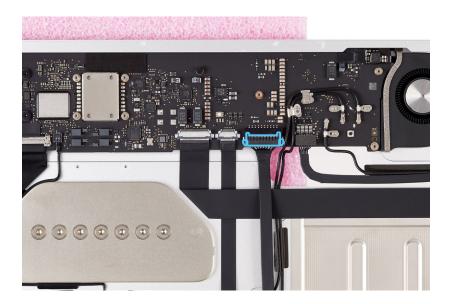
1. Position the housing with the back facedown and the top closest to you.



2. Peel off the polyester film tape from the end of the display backlight flex cable. Save the polyester film tape for reassembly.

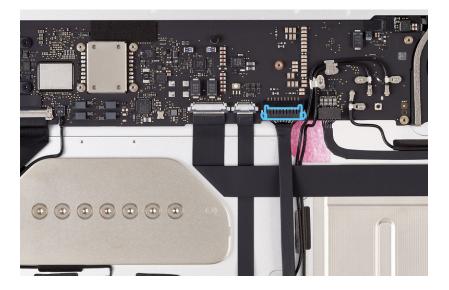


3. Squeeze both sides of the end of the display backlight flex cable and pull it straight out of the connector.



Reassembly

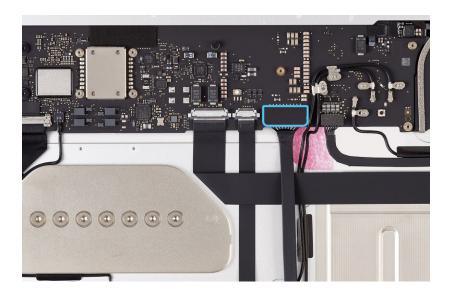
1. Slide the end of the display backlight flex cable into the connector.



2. Reinstall the polyester film tape onto the display backlight flex cable connector.

Important

Install new polyester film tape whenever it is provided with a replacement part.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Fan

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

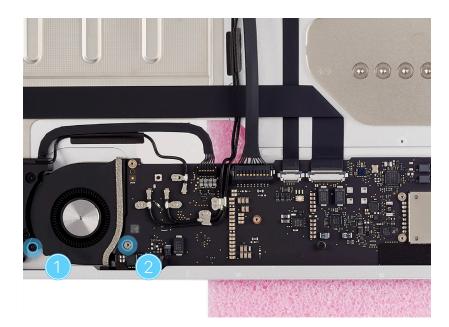
Tools

- 2.5 mm hex nut driver
- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver



Removal

- 1. Use the T3 screwdriver to remove the T3 screw (923-05558) from the fan (1).
- 2. Use the 2.5 mm hex nut driver to remove the 2.5 mm hex nut screw (923-05573) from the logic board (2).



3. Position the housing with the back facedown and the top closest to you.



4. Use ESD-safe tweezers to peel off the polyester film tape on the fan flex cable.



5. Use the black stick to flip up the locking lever on the end of the fan flex cable connectors.



6. Separate the prongs of the ESD-safe tweezers and insert one prong under the fan flex cable. Carefully slide the ESD-safe tweezers toward the fan to loosen the adhesive between the fan flex cable and the logic board.



Caution

Don't touch any of the small components on the logic board. Keep the tweezers parallel with the logic board surface to prevent damage.



7. Position the black stick under the fan flex cable. Then pull the fan flex cable out of the connector.



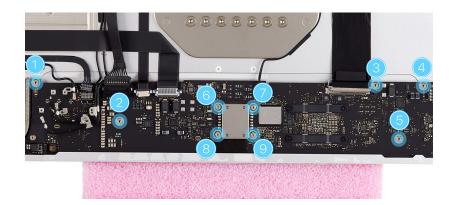
Caution

Don't bend or twist the fan flex cable.

- 8. Stand the housing upright.
- 9. Use the 2.5 mm hex nut driver to remove nine 2.5 mm hex screws from the logic board:

· (1-5): (923-05573)

· (6-9): (923-05556)



10. Slightly tilt the logic board away from the housing as shown (1). Then slide the edge of the fan out from under the logic board to remove the fan from the housing (2).



Caution

Don't bend the logic board as you tilt it.



Reassembly

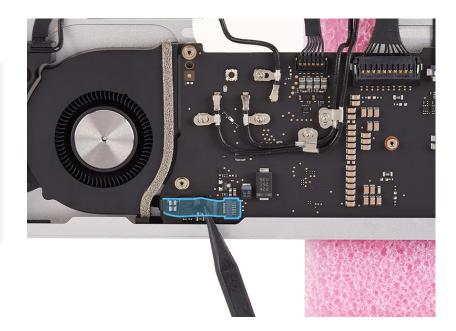
1. Slightly tilt the logic board forward (1). Then slide the edge of the fan under the logic board (2). Ensure that the screw holes in the fan and logic board align with the screw holes in the housing.



- 2. Slide the end of the fan flex cable into the connector. Then flip down the locking lever.
- 3. Press the polyester film tape over the end of the fan flex cable.
- 4. Press the fan flex cable to adhere it to the logic board.

Important

If you're installing a new fan, first connect the fan flex cable to the logic board. Then remove the release liners from the fan flex cable and press the flex cable to adhere it to the logic board.



- 5. Use the T3 screwdriver to reinstall the T3 screw (923-05558) into the fan.
- 6. Use the 2.5 mm hex nut driver to reinstall the 10 2.5 mm hex screws into the logic board:

· (1-6): (923-05573) · (7-10): (923-05556)



Reinstall the following parts to complete reassembly:

- Logic board cover
- **Display**

Logic Board

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- 2.5 mm hex nut driver
- Antenna tool
- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver





(!) Caution

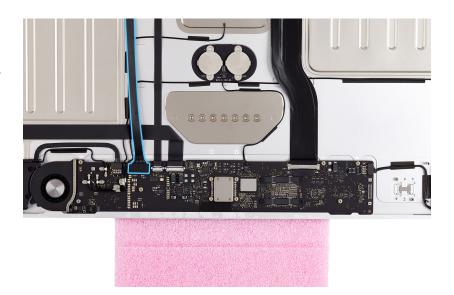
This procedure requires System Configuration. After you've completed all removal and reassembly steps, learn how to initiate the System Configuration process at <u>support.apple.com/self-service-repair</u>.

Removal

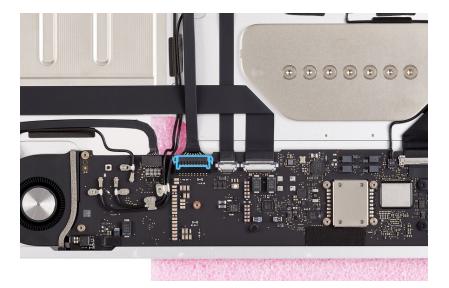
- 1. Peel off the foam pad from the left speaker flex cable connector. Save the foam pad for reassembly.
- 2. Use the black stick to lift the end of the left speaker flex cable off the connector.



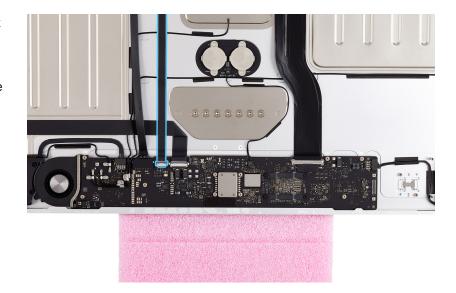
3. Peel off the polyester film tape from the display backlight flex cable connector. Save the polyester film tape for reassembly.



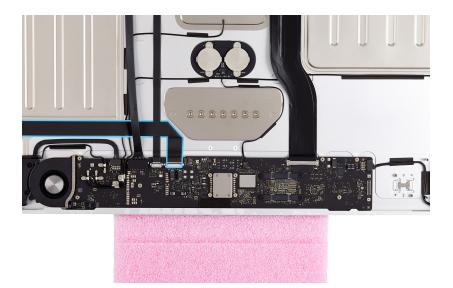
4. Pinch the sides of the end of the display backlight flex cable and slide it out of the connector.



5. Use the flat end of the black stick to press and hold the "PUSH" button on the microphone flex cable ZIF connector. Then gently slide the end of the flex cable out of the connector.



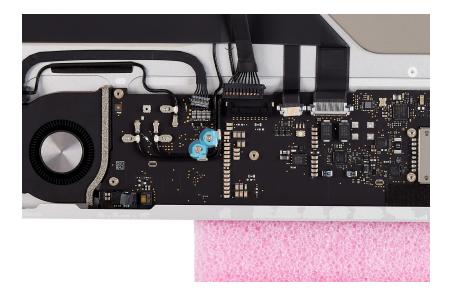
6. Use the flat end of the black stick to press and hold the "PUSH" button on the audio board flex cable ZIF connector. Then gently slide the end of the flex cable out of the connector.



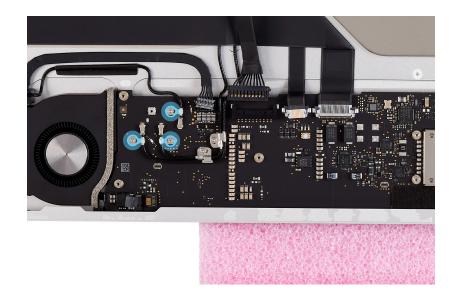
7. Use the black stick to lift the end of the battery board cable off the connector.



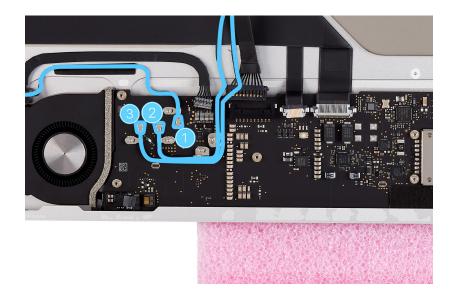
8. Use the T3 screwdriver to remove two long T3 screws (923-05173) from the overlapping antenna grounding clips.



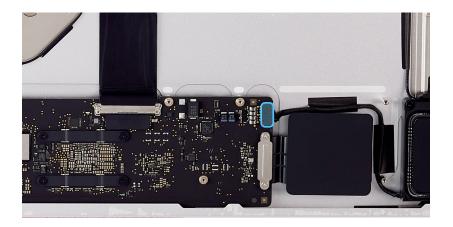
9. Use the T3 screwdriver to remove three short T3 screws (923-05174) from the antenna grounding clips near the ends of the antenna coaxial cables.



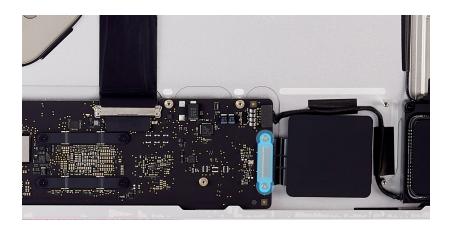
10. Use the antenna tool to lift the ends of the three antenna coaxial cables off the connectors.



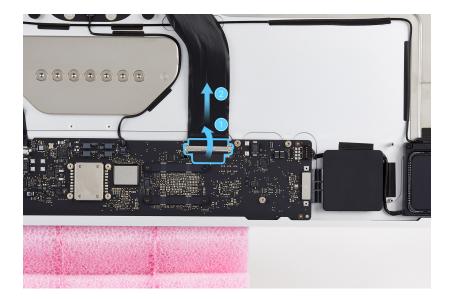
11. Peel off the foam on the right speaker cable connector. Save the foam for reassembly.



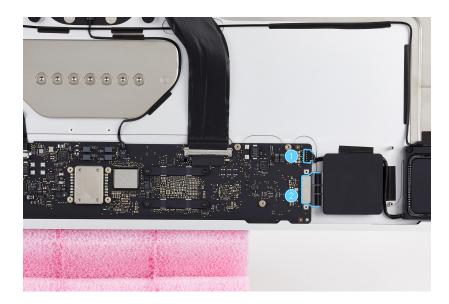
- 12. Use the T3 screwdriver to remove two T3 screws (923-05562) from the USB-C board connector cowling.
- 13. Remove the USB-C board connector cowling and save it for reassembly.



- 14. Pull the tab to flip up the locking bar on the camera and eDP flex cable (1).
- 15. Slide the end of the camera and eDP flex cable straight out of the connector (2).



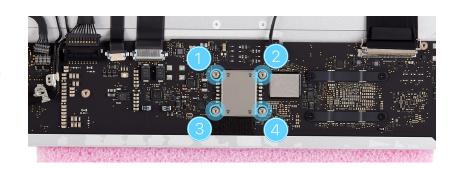
- 16. Use the flat end of the black stick to lift the end of the right speaker flex cable off the connector (1).
- 17. Use the flat end of the black stick to lift the end of the USB-C board flex cable off the connector (2).



18. Use the 2.5 mm hex nut driver to remove six 2.5 mm hexnut screws (923-05573) from the logic board in the order shown.



19. Use the 2.5 mm hex nut driver to remove four 2.5 mm hex nut screws (923-05556) from the logic board in the order shown.



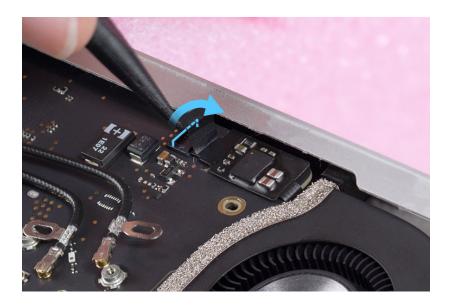
20. Rotate the housing and position it as shown.



21. Use ESD-safe tweezers to peel off the polyester film tape on the fan flex cable.



22. Use the black stick to flip up the locking lever on the fan flex cable connector.



23. Separate the tips of the ESD-safe tweezers and insert one tip under the fan flex cable. Carefully slide the ESD-safe tweezers toward the fan to loosen the adhesive between the fan flex cable and logic board.



Caution

Don't touch any of the small components on the logic board. Keep the tweezers parallel to the logic board surface to prevent damage.



24. Gently slide the fan flex cable out of the connector.



Caution

Don't bend or twist the fan flex cable.

25. Stand up the computer as shown. Tilt the logic board forward (1). Then lift the logic board out of the housing (2).



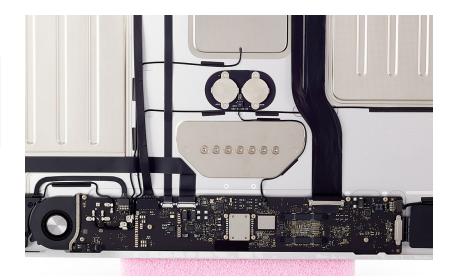
Reassembly

1. Position the logic board in the housing.



(Caution

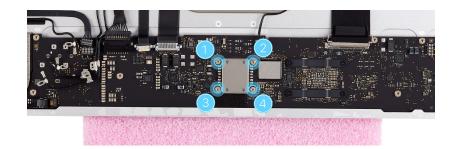
Don't trap any loose cables under the logic board.



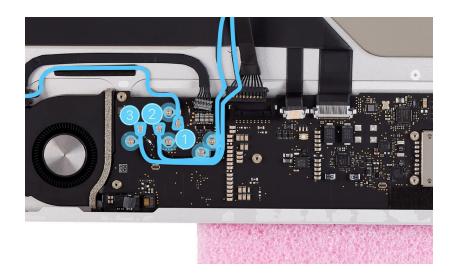
2. Use the 2.5 mm hex nut driver to partially reinstall six 2.5 mm hex nut screws (923-05573) (1-6) into the logic board.



3. Use the 2.5 mm hex nut driver to partially reinstall four 2.5 mm hex nut screws (923-05556) (1-4) into the logic board.



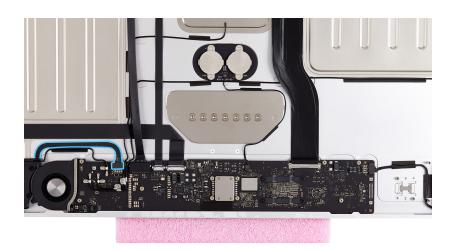
- 4. Ensure that the logic board is aligned in the housing. Then use the 2.5 mm hex nut driver to fully reinstall the six 2.5 mm hex screws.
- 5. Use the 2.5 mm hex nut driver to fully reinstall the four 2.5 mm hex screws.
- 6. Use the blunt end of the antenna tool to press the ends of the three antenna cables to the connectors. Route the shorter antenna cable (2) under the longer antenna cable (3).



- 7. Use the T3 screwdriver to reinstall the three short T3 screws (923-05174) into the antenna grounding springs near the ends of the antenna coaxial cables.
- 8. Use the T3 screwdriver to reinstall the two long T3 screws (923-05173) into the overlapping antenna grounding springs.
- 9. Press the end of the left speaker flex cable to the connector.
- 10. Press the foam pad over the left speaker flex cable connector.

Important

If a foam pad is installed on the logic board cover, don't install a foam pad on the connector.



- 11. Slide the end of the display backlight cable into the connector.
- 12. Press the polyester film tape over the display backlight flex cable connector.



13. Slide the end of the microphone flex cable into the connector.



14. Slide the end of the audio board flex cable into the connector.



15. Press the end of the battery board cable onto the connector.



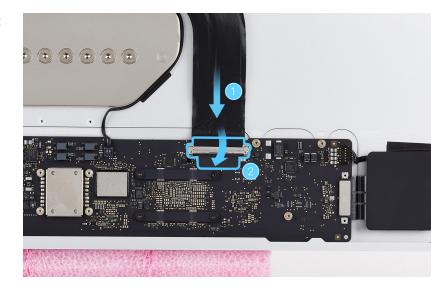
- 16. Slide the end of the fan flex cable into the connector. Then flip down the locking lever.
- 17. Press the polyester film tape over the fan flex cable connector.

Important

If you're installing a replacement fan, remove the release liner from the fan flex cable before adhering the polyester film tape.



18. Slide the camera and eDP flex cable into the connector (1). Then flip down the locking bar (2).

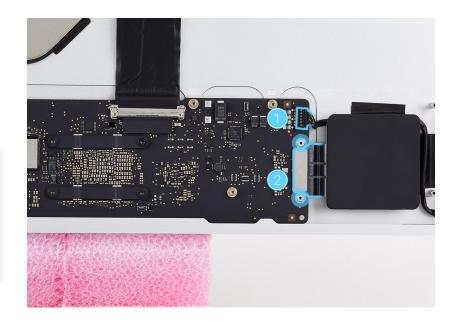


- 19. Press the end of the speaker flex cable to the connector (1).
- 20. Press the foam pad over the right speaker flex cable connector.

Important

If a foam pad is installed on the logic board covered, don't install a foam pad over the right speaker flex cable connector.

- 21. Press the end of the USB-C board flex cable to the connector (2).
- 22. Position the USB-C board connector cowling over the connector. Then use the T3 screwdriver to reinstall two T3 screws (923-05562) into the USB-C board connector cowling.



Reinstall the following parts to complete reassembly:

- Logic board cover
- **Display**



After you've completed all removal and reassembly steps, learn how to initiate the System Configuration process at support.apple.com/self-service-repair.

USB-C Board

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver



1. Peel the polyester film tape from the USB-C board. Save it for reassembly.



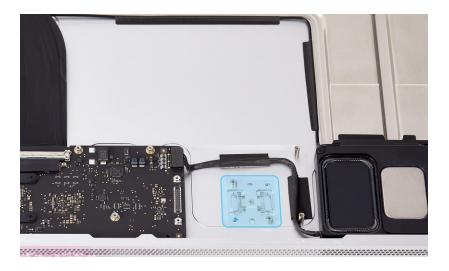
2. Use the T3 screwdriver to remove the two T3 screws (923-05555) from the USB-C board.



- 3. Use the T3 screwdriver to remove two T3 screws (923-05562) from the USB-C board connector cowling.
- 4. Remove the USB-C board connector cowling and save it for reassembly.

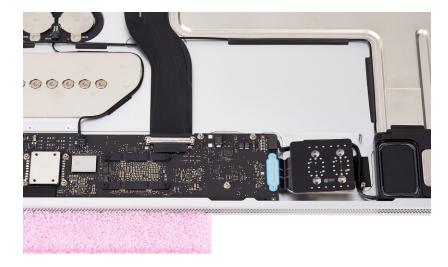


5. Use the black stick to lift the end of the USB-C board flex cable off the connector. Then remove the USB-C board from the housing.



Reassembly

- 1. Position the USB-C board in the housing.
- 2. Use the flat end of the black stick to gently press the end of the USB-C board flex cable to the connector.
- 3. Position the USB-C board connector cowling over the end of the USB-C board flex cable. Then use the T3 screwdriver to reinstall the two T3 screws (923-05562) into the logic board.

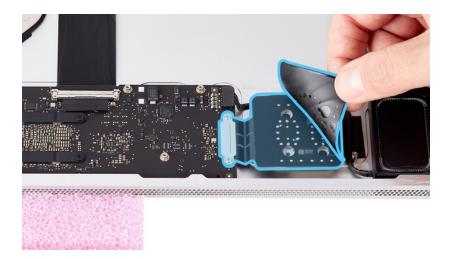


4. Align the screw holes in the USB-C board with the pins on the rear housing. Then use the T3 screwdriver to partially install the two T3 screws (923-05555) into the USB-C board.



5. Reinstall the polyester film tape over the USB-C board.

> Note: If you're installing a replacement part, use the included replacement polyester film tape instead of the existing polyester film tape.



Reinstall the following parts to complete reassembly:

- Logic board cover
- **Display**

Wi-Fi Antenna

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- Antenna tool
- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver



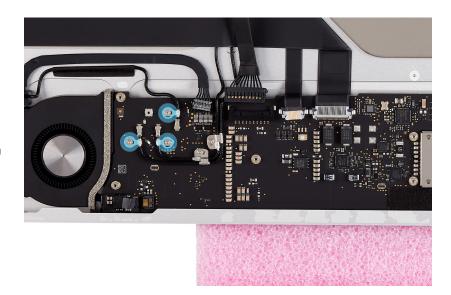
1. Use the T3 screwdriver to remove the three T3 screws (923-05574) from the Wi-Fi antenna.



- 2. Use the T3 screwdriver to remove the three T3 screws from the antenna grounding clips on the logic board.
- 3. Use the antenna tool to lift the end of the Wi-Fi antenna cable from the connector on the logic board.

Note: The T3 screw (923-05174) (1) closest to the connector is shorter than the other two T3 screws.

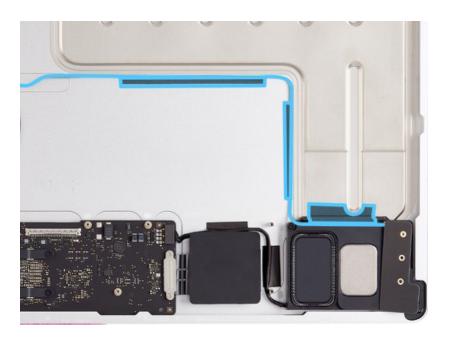
- · (923-05174) (1)
- · (923-05173) (2)



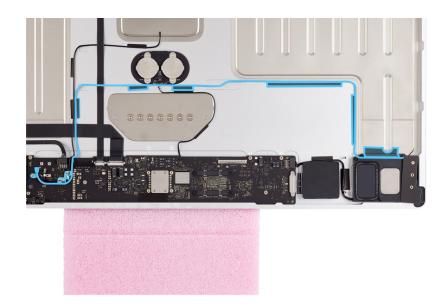
4. Use the black stick to peel the antenna cable tape from the housing.



5. Carefully lift the cable out of the channel in the speaker.



6. Remove the Wi-Fi antenna from the housing.



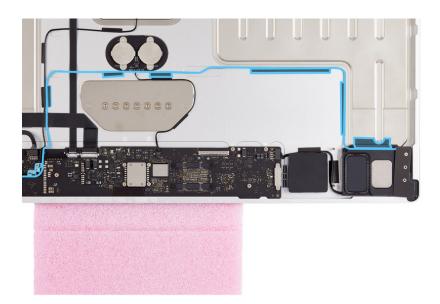
Reassembly

1. Route the Wi-Fi antenna cable as shown. Then press along the length of the antenna cable tape to adhere it to the housing.

Important

Ensure the antenna cable tape covers the etched areas on the housing as shown.

2. Route the Wi-Fi antenna cable through the channel in the speaker.

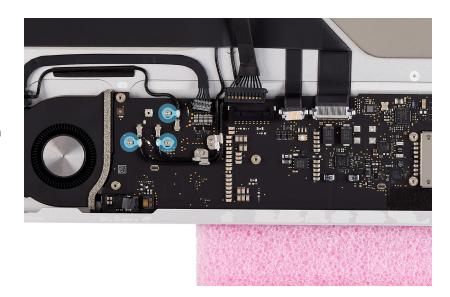


3. Use the flat end of the antenna tool to press the end of the Wi-Fi antenna cable to the connector to the logic board

4. Use the T3 screwdriver to reinstall the three T3 screws into the antenna grounding clips on the logic board.

> Note: The T3 screw (923-05174) (1) closest to the connector is shorter than the other two T3 screws.

- · (923-05174) (1)
- · (923-05173) (2)



5. Use the T3 screwdriver to reinstall three T3 screws (923-05574) into the Wi-Fi antenna.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Wi-Fi and Bluetooth Antenna

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover

Tools

- Antenna tool
- Nylon probe (black stick)
- Support wedges
- Torx T3 screwdriver

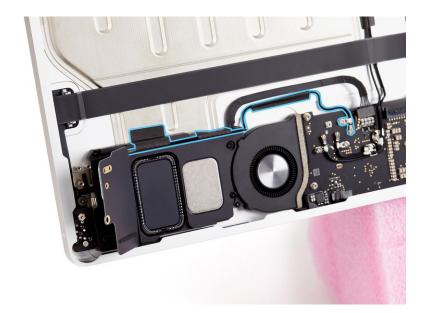


1. Use the T3 screwdriver to remove the upper three T3 screws (923-05574) and the lower T3 screw (923-05668) from the Wi-Fi and Bluetooth antenna.

> Note: The bottom screw has a larger head than the top three screws.



- 2. Use the T3 screwdriver to remove the T3 screw (923-05174) from the antenna ground clip on the logic board.
- 3. Use the antenna tool to lift the end of the Wi-Fi and Bluetooth antenna from the logic board.

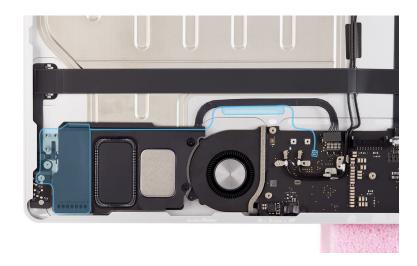


- 4. Use the black stick to peel the Wi-Fi and Bluetooth antenna cable tape from the speaker and housing.
- 5. Carefully lift the cable out of the channel in the speaker.



Reassembly

- 1. Position the Wi-Fi and Bluetooth antenna in the bottom left of the housing as shown.
- 2. Route the Wi-Fi and Bluetooth antenna cable through the channel in the speaker.



- 3. Use the flat end of the antenna tool to press the end of the Wi-Fi and Bluetooth antenna to the logic board.
- 4. Use the T3 screwdriver to reinstall the T3 screw (923-05174) in the antenna grounding clip.



5. Press the antenna cable tape back onto the speaker and housing.

Important

If you're installing a replacement Wi-Fi and Bluetooth antenna, peel off the adhesive release liners from the tape before adhering it to the speaker and housing.

6. Use the T3 screwdriver to reinstall the upper three T3 screws (923-05574) and the lower T3 screw (923-05668) into the Wi-Fi and Bluetooth antenna.

Important

Reinstall the T3 screw with the larger head into the bottom screw hole on the Wi-Fi and Bluetooth antenna.



Reinstall the following parts to complete reassembly:

- Logic board cover
- Display

Housing

Before You Begin

Remove the following parts before you begin:

- **Display**
- Logic board cover
- Camera and embedded DisplayPort flex cable
- Display backlight cable
- Logic board
- Fan
- **USB-C** board
- Stand or VESA mount adapter



Tools

No tools are required for this procedure.

There are no additional removal steps. The housing includes the following removable parts:

- Audio board
- · Audio board flex cable
- Microphone flex cable
- · Wi-Fi and Bluetooth antenna
- · Wi-Fi antenna

The housing includes the following nonremovable parts:

- Center Wi-Fi antenna
- Display hangers
- Microphone
- Power button and power button flex cable
- Speakers
- Speaker back volumes

Reassembly

Reinstall the following parts to complete reassembly:

- Stand or VESA mount adapter
- **USB-C** board
- Fan
- Logic board
- Display backlight cable
- Camera and embedded DisplayPort flex cable
- Logic board cover
- **Display**

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