



iPod Nano 7th Generation Logic Board Assembly Replacement

The 7th Generation iPod Nano has quite a few...

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INTRODUCTION

The 7th Generation iPod Nano has quite a few components soldered directly to the logic board, this assembly contains: the battery, headphone jack, sleep/power button, volume control button assembly, and Lightning connector. Use this guide to remove or replace the entire unit in your Nano.

TOOLS:

[iOpener](#) (1)

[Phillips #000 Screwdriver](#) (1)

[Metal Spudger](#) (1)

[iFixit Opening Tool](#) (1)

[Spudger](#) (1)

[Tweezers](#) (1)

Step 1 — iOpener Heating



 We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.

- Place the iOpener in the center of the microwave.

 **For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.**

Step 2



- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst. Do not attempt to heat over 100°C (212°F).

⚠ Never touch the iOpener if it appears swollen.

⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.

Step 3



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.

⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

Step 4 — Alternate iOpener heating method



i If you don't have a microwave, follow this step to heat your iOpener in boiling water.

- Fill a pot or pan with enough water to fully submerge an iOpener.
- Heat the water to a boil. **Turn off the heat.**
- Place an iOpener into the hot water for 2-3 minutes. Make sure the iOpener is fully submerged in the water.
- Use tongs to extract the heated iOpener from the hot water.
- Thoroughly dry the iOpener with a towel.
⚠ The iOpener will be very hot, so be careful to hold it only by the end tabs.
- Your iOpener is ready for use! If you need to reheat the iOpener, heat the water to a boil, turn off the heat, and place the iOpener in the water for 2-3 minutes.

Step 5 — Front Panel Assembly



- Lay the iOpener over the plastic tab to loosen the adhesive. Let the bag sit on the device for approximately 90 seconds before attempting to open the panel.

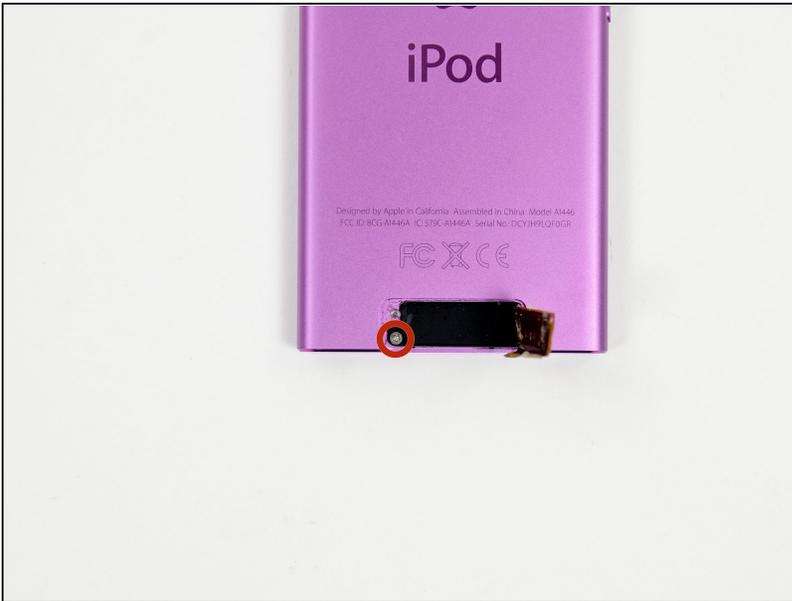
Step 6



- Use a plastic opening tool to pull the rear plastic cover away from the device until there is enough room to insert a spudger.
- Insert a spudger under the cover, then pry it up and away from the device.
- Remove the rear plastic cover from the iPod.

⚠ Be very careful in removing the plastic cover as the bluetooth antenna is adhered to it.

Step 7



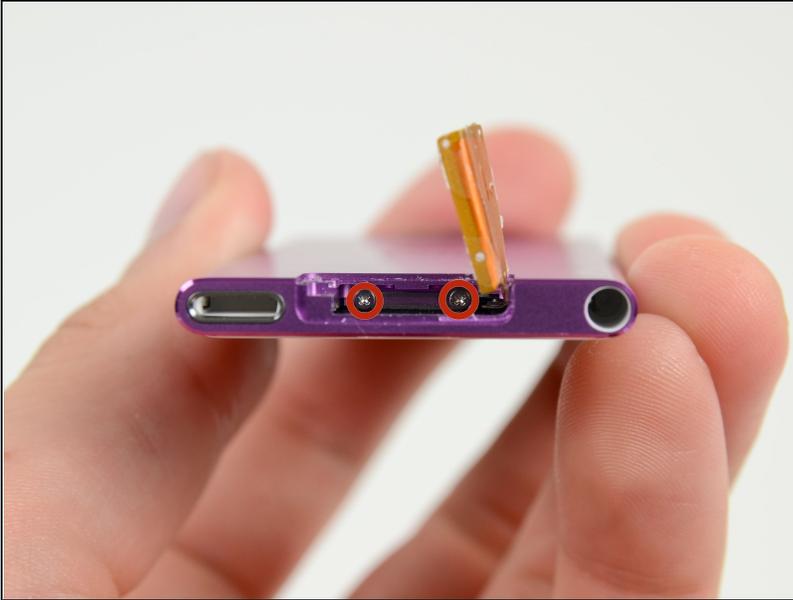
- ① Gently bend the Bluetooth antenna to the right, out of the way of the screws in the bottom of the device.
- Remove the single 1.4 mm Phillips #000 screw from the black plastic spacer.

Step 8



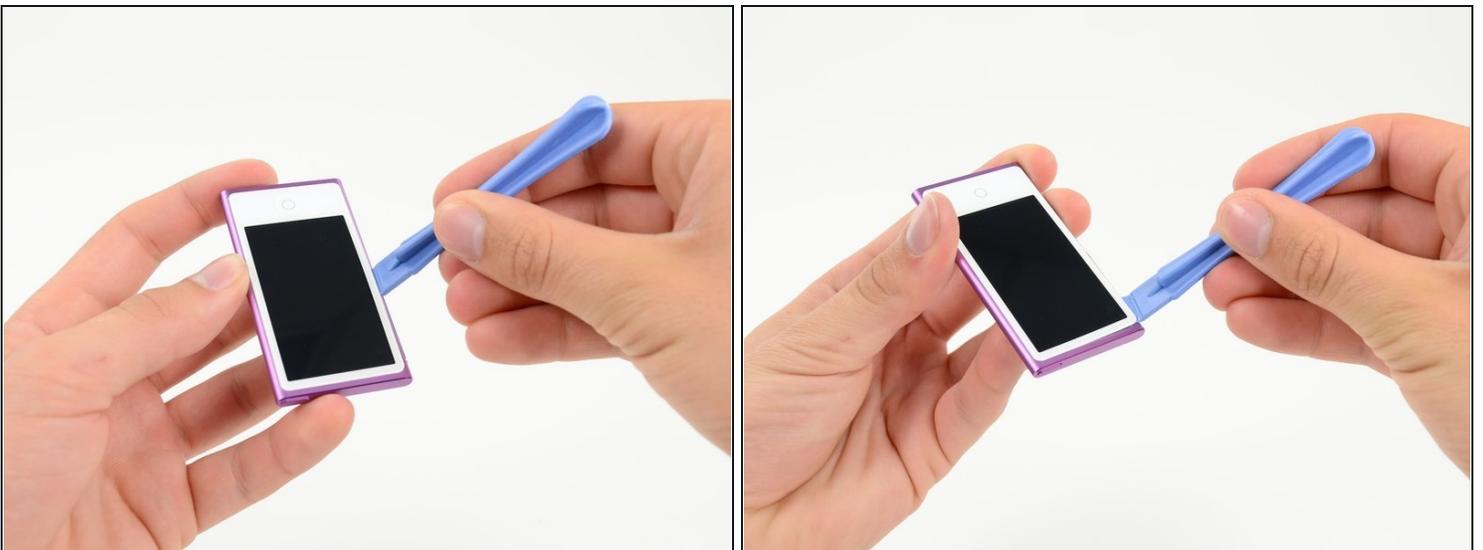
- Use a plastic opening tool to remove the black plastic spacer from the Nano.

Step 9



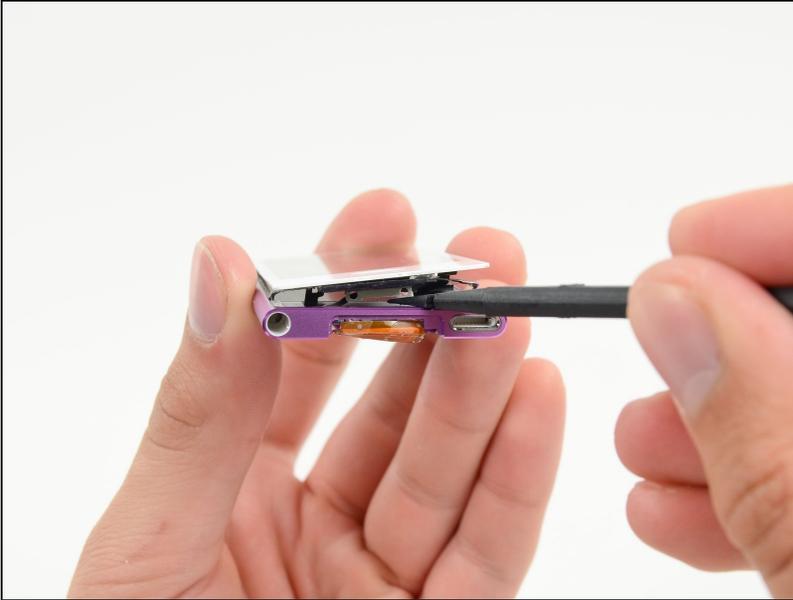
- Remove the two 2 mm Phillips #000 screws from the bottom of the case.

Step 10



- Insert a plastic opening tool into the seam between the white plastic front panel and the rear case.
- Slide the opening tool along the edge of the front panel to free it from clips and adhesive.

Step 11



- Use a spudger to press the midframe screw tab up and out of the rear case.

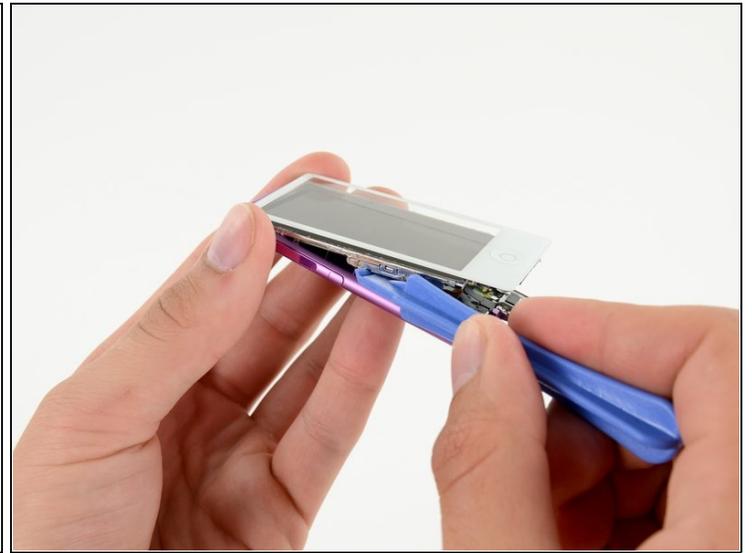
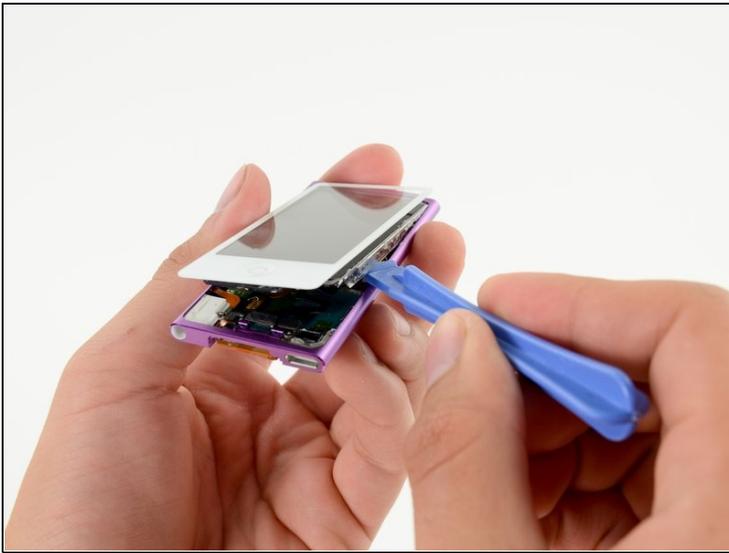
Step 12



- Use a metal spudger to carefully pry near the Lightning connector and under **all** parts of the front panel assembly: the front glass/digitizer, the LCD display and the metal midframe.

- ⓘ The adhesive under the metal midframe/display assembly is quite strong and the components are fragile, so go slowly and gently. Make sure you do not bend the LCD screen.

Step 13



- Continue prying along the edges under the front panel assembly, releasing the clips and adhesive along the sides of the device.

Step 14



- Pull the front panel assembly slightly down and partially out of the device.
- ⓘ You only need to open the device enough to gain access to the display cable connectors near the sleep/power button.

⚠ Do not separate the two halves entirely, they are still connected by several cables.

Step 15



- Use a spudger to release the digitizer cable and display data cable connectors.

Step 16



- Gently unfold the two halves of the device to access the internal components.

⚠ Do not try to completely separate the two sections, yet, as they are still attached via a soldered cable.

Step 17



- Pull up on the battery pull tab to free the battery from its adhesive.
- ⓘ Flip the battery over into the rear case for safekeeping.

Step 18



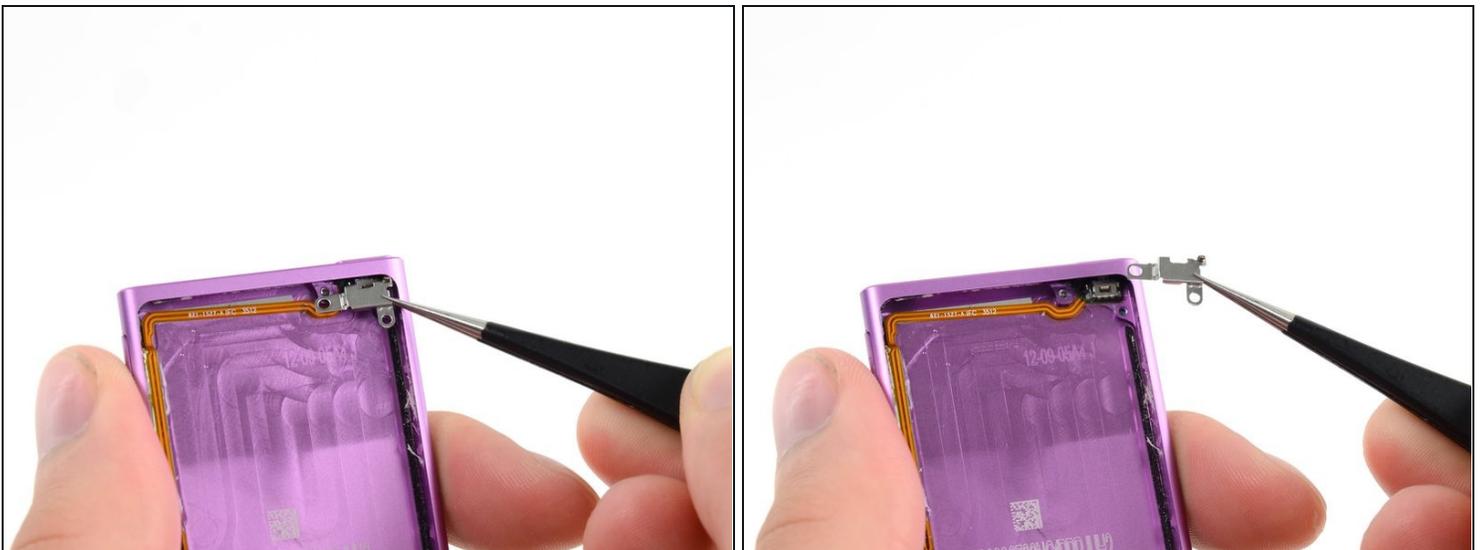
- Completely separate the front panel assembly from the rest of the device.

Step 19 — Logic Board Assembly



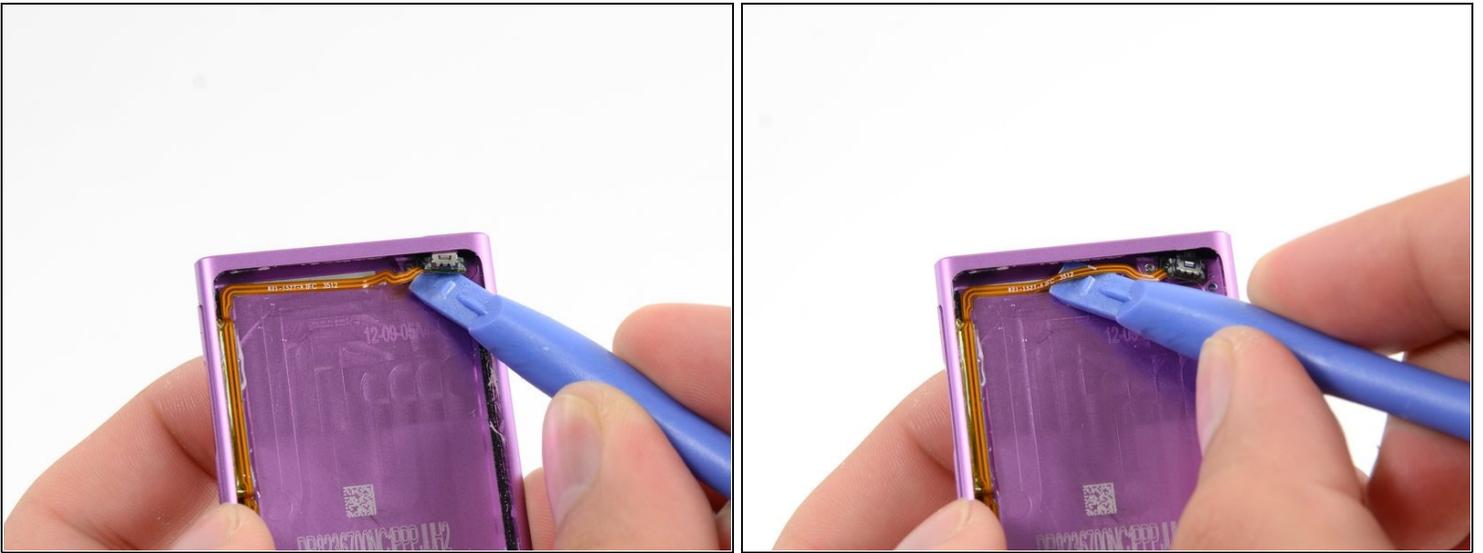
- ① Flip the battery down over the logic board to gain access to the sleep/power button assembly.
- Remove the two 1.4 mm Phillips #000 screws from the sleep/power button bracket.

Step 20



- Remove the sleep/power button bracket from the rear case.

Step 21



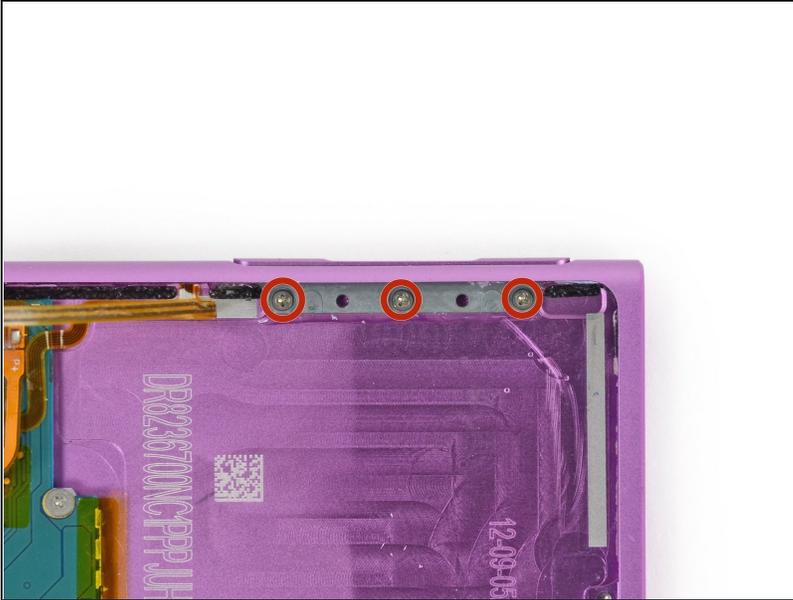
- Insert a plastic opening tool under the sleep/power button, and gently pry upwards to free it from its adhesive.
- Slide the plastic opening tool along the underside of the sleep/power button ribbon cable.
- ⓘ Continue freeing the ribbon cable until you can access the volume buttons on the left side of the rear case.

Step 22



- Peel back and remove any tape covering the volume control button assembly.

Step 23



- Remove the three 1.4 mm Phillips #000 screws securing the volume control button assembly to the rear case.

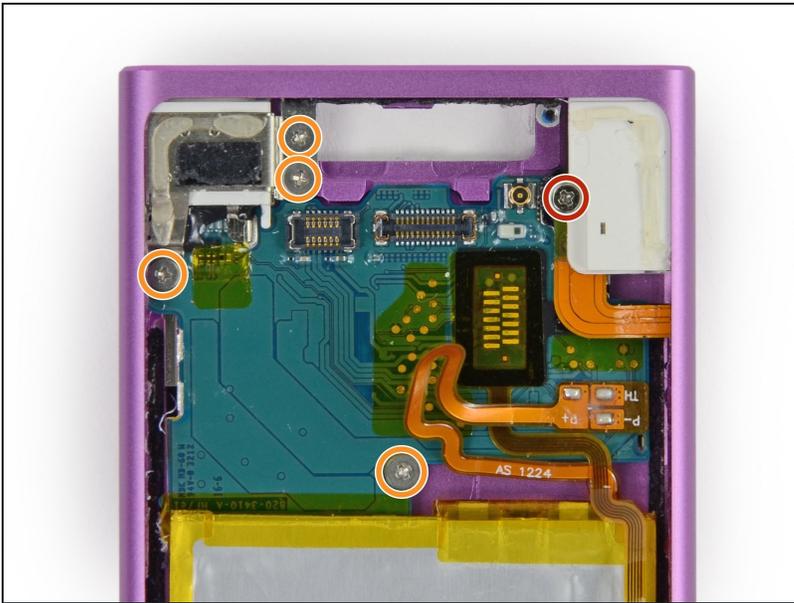
Step 24



- Use the pointed end of a spudger to pry the volume control button assembly away from the edge of the case.

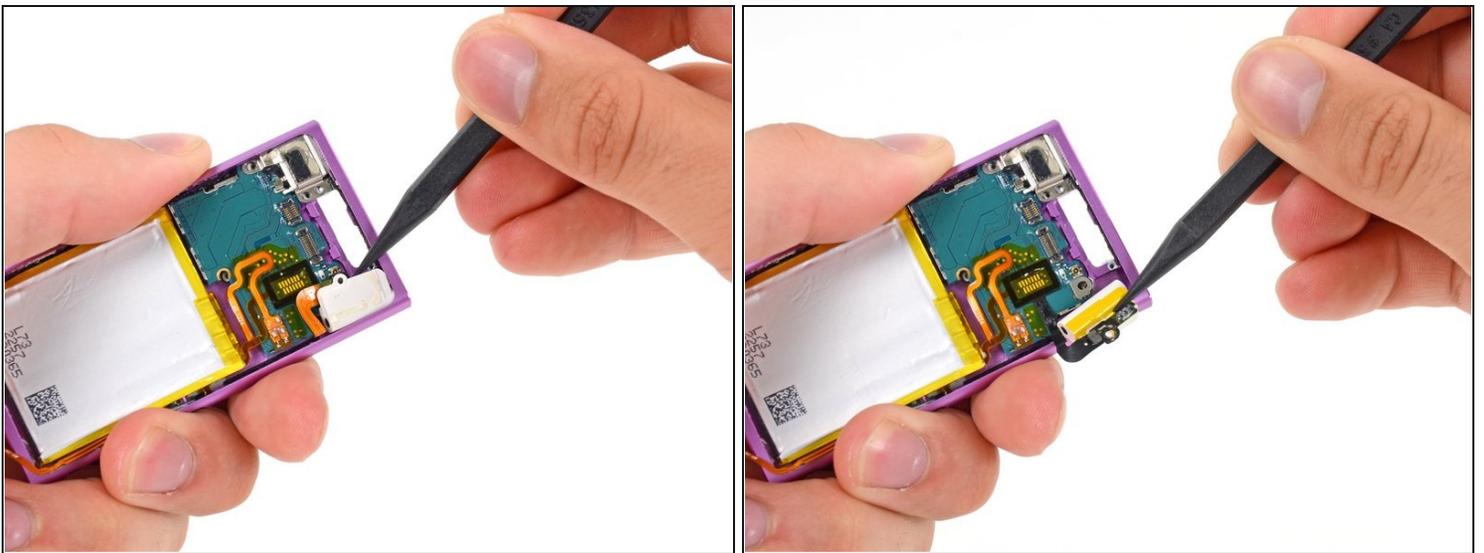
⚠ Do not remove the volume control button assembly from the device entirely; it is still connected to the logic board assembly by a soldered cable.

Step 25



- ① Flip the battery back into its recess to expose the headphone jack.
- Remove the single 2.8 mm Phillips #000 screw from the headphone jack.
- Remove the 4 Phillips #000 screws from the lightning connector and logic board.

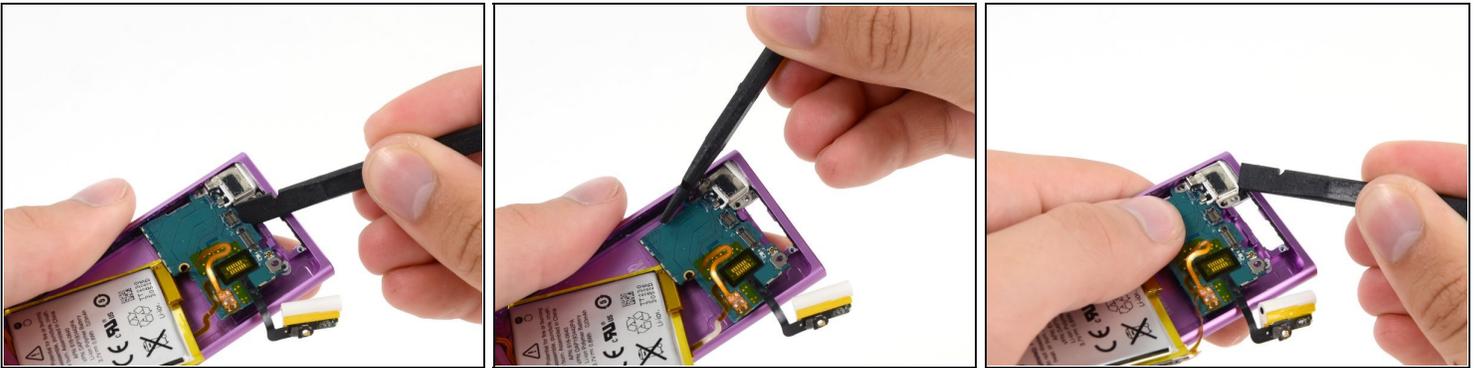
Step 26



- Use a spudger to pry the headphone jack off of the adhesive holding it to the rear case.

⚠ Do not remove the headphone jack entirely; its ribbon cable is still soldered to the logic board assembly.

Step 27



- Use the flat end of a spudger to push the logic board away from the edges of the rear case to free the Lightning connector.
- Once the Lightning connector has been loosened, push gently between it and the case to further free it.

Step 28



- Gently pull the logic board assembly out of the rear case.
- ⚠ If there is any resistance, there may still be adhesive securing the cables or components. Do not attempt to remove the assembly without further gentle spudgering.**

To reassemble your device, follow these instructions in reverse order.