iPod Nano 2nd Generation Battery Replacement

Written By: iRobot

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INTRODUCTION

Battery not lasting long? Swap it out (requires soldering).

TOOLS:

- iFixit Opening Tools (1)
- Metal Spudger (1)
- Phillips #00 Screwdriver (1)
- Spudger (1)
- Desoldering Braid (1)
- Soldering Iron (1)

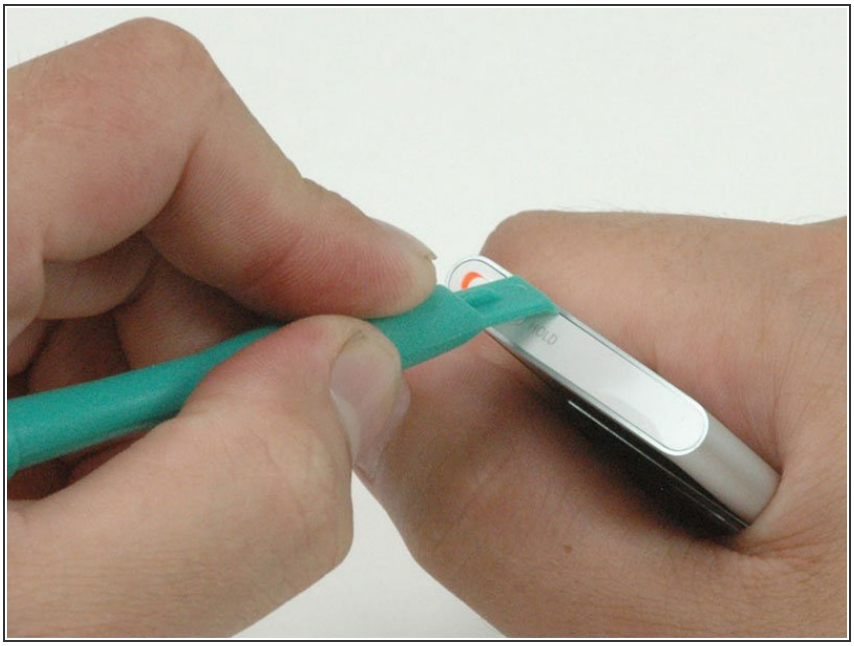
PARTS:

- iPod Nano (2nd Gen) Replacement Battery (1)
  Part Only

Step 1 — Case Assembly

Before opening your iPod, ensure that the hold switch is in the locked position.

Step 2



- Carefully insert an iPod opening tool in the seam between the metal casing and white plastic top.
- Lift the top bezel off the iPod. It's glued on using a mild adhesive, so some force may be required.

Step 3

⚠ When removing the bottom bezel, be sure not to bend the plastic surrounding the dock connector.

- Carefully insert an iPod opening tool in the seam between the metal casing and white plastic bezel.
- Lift the bottom bezel off the iPod. It's glued on using a mild adhesive, so some force may be required.

Step 4

- Remove the following two screws:
  - One #00 Phillips screw with a large head near the headphone jack.
  - One #00 Phillips screw with a smaller head near the side of the iPod. This screw strips easily, so be sure to press down firmly on the screwdriver.

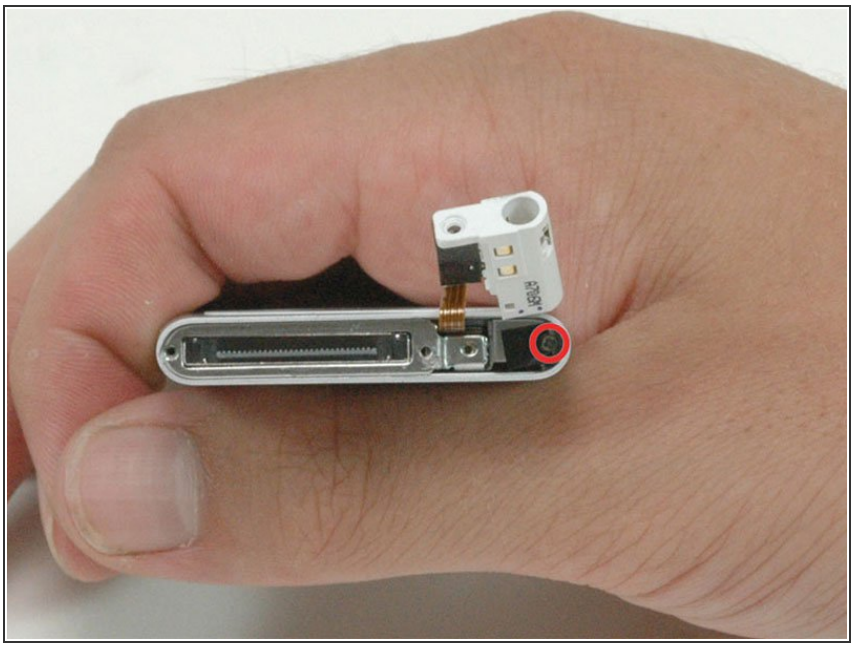
Step 5

- Use a metal spudger to carefully pry the headphone jack out of the casing. DO NOT remove the headphone jack from the iPod entirely, as it is connected via a fragile ribbon connector to the click wheel.

Step 6

- Slide the headphone jack out until the white plastic housing is no longer held in place by the metal casing.

Step 7



- Remove the newly-revealed Phillips #00 screw from beneath the headphone jack. Be careful, this screw is easily stripped.

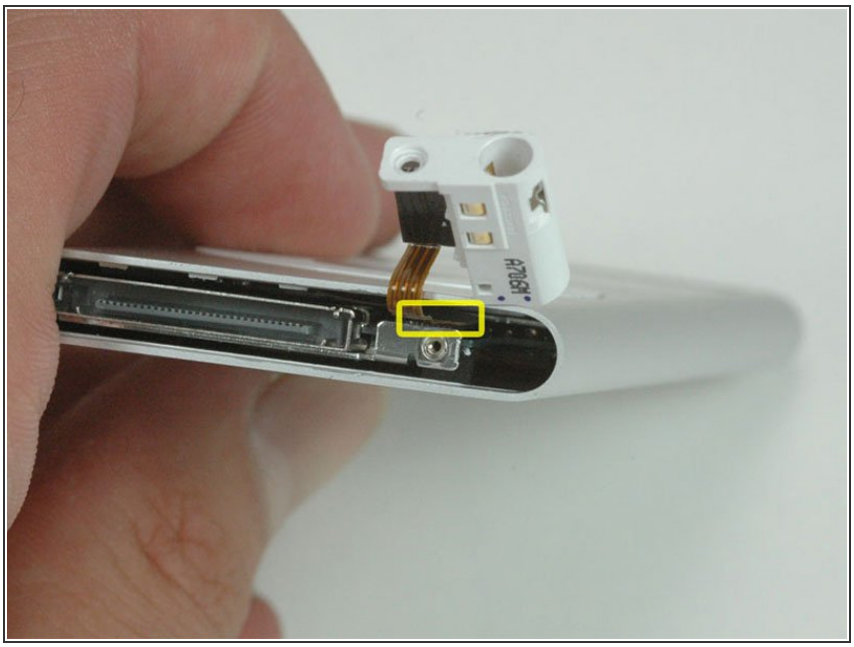
Step 8

- Lift the bottom bezel bracket out of the iPod.

Step 9

- Remove the two Phillips #00 screws from the top of the iPod.

Step 10



The highlighted connector attaches the click wheel and headphone jack to the logic board. This cable must be disconnected from the logic board before continuing.

Step 11

- Use a spudger to disconnect the headphone jack cable from the logic board. You need to gently pry the connector toward (or up, if you like, the connector is like LEGO® building blocks) the front of the iPod until it comes loose from the logic board.

- Special hint for the reassembly: Push the connector inside until it is over the corresponding connector of the logic board. Then insert a thin tool over the connector and push it down onto the logic boards connector.

Step 12

- Use a spudger to push the logic board through the iPod out of the casing. The click wheel and headphone jack should remain in the iPod.

⚠ Be careful not to catch the headphone jack and click wheel on the logic board as you remove the logic board and display.

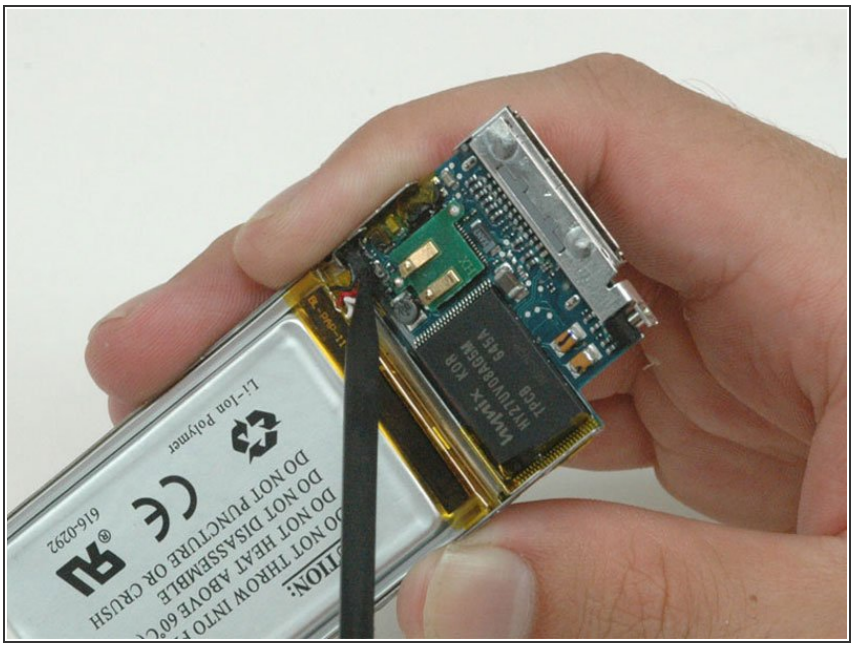
Step 13

- When removing the logic board, place the tip of the spudger into the hole where you removed the screw and gently push it out. The crevice will keep it in place and decrease the chance of you damaging your board.

Step 14

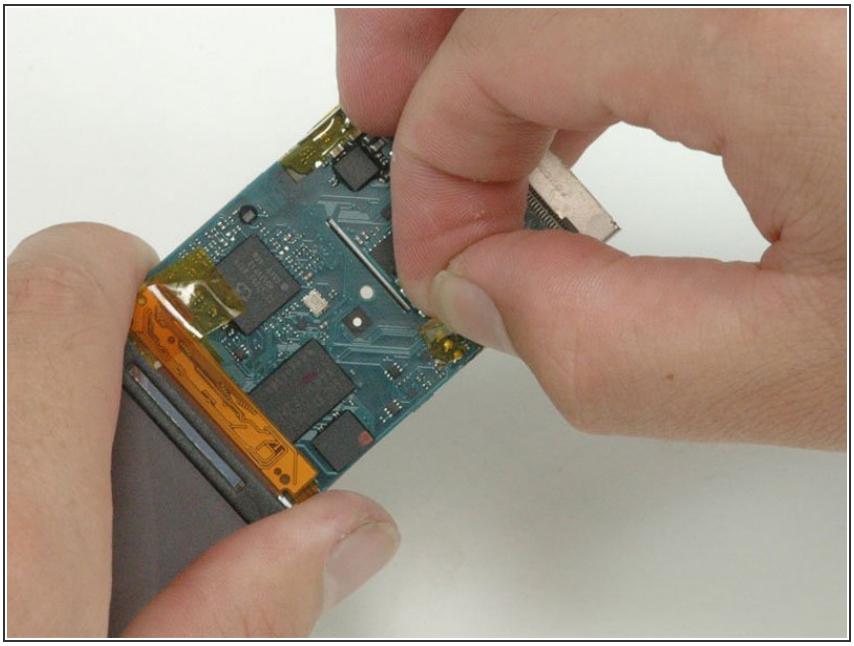
- Completely remove the display and logic board from the metal casing.
- When reassembling, ensure that the battery is well seated. If the fit is too tight, the edge of the display will score the inside of the screen window.

Step 15 — Battery



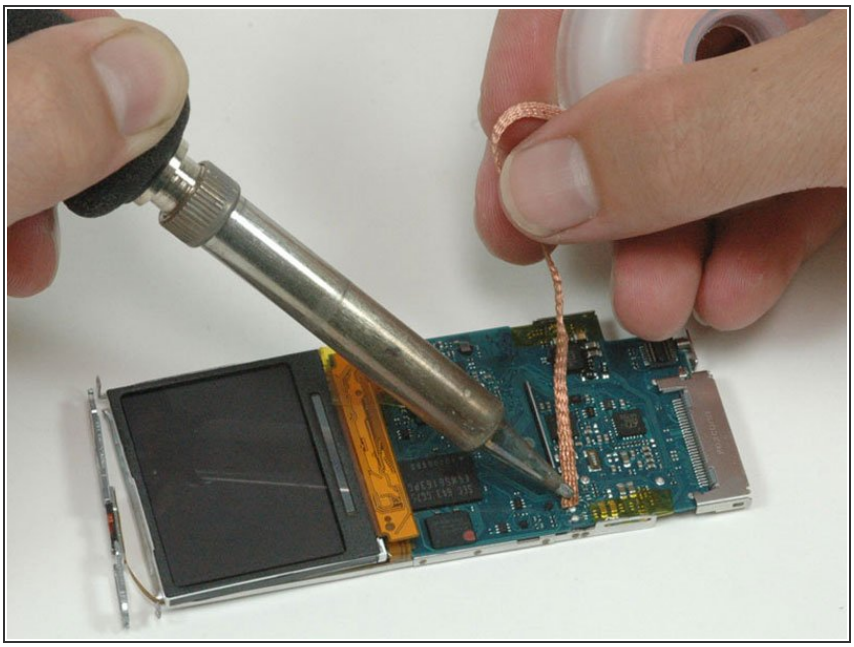
- Use a spudger to scrape away the black glue covering the three battery wires.

Step 16



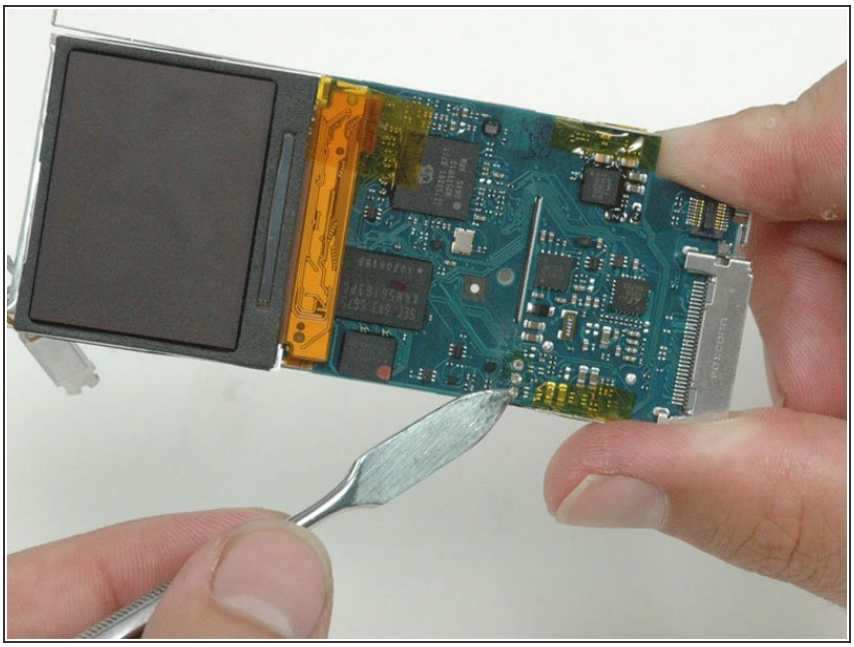
- Peel up the orange tape covering the three solder points on the other side of the logic board.

Step 17



- Place the desoldering wick on top of the existing solder ball.
- Place the soldering iron on top of wick above the existing solder ball.
- Hold the soldering iron in place until the solder melts into the wick.
- Repeat the same procedure on the remaining two connectors.

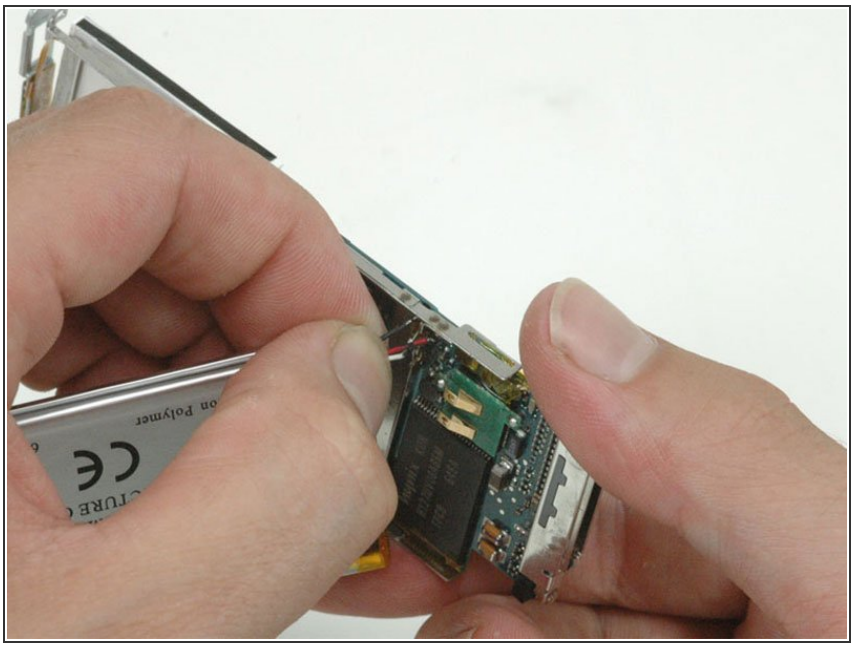
Step 18



⚠ Be careful not to scrape the metal rings surrounding the connectors off the logic board. If you accidentally scrape these off, you won't be able to reconnect the replacement battery.

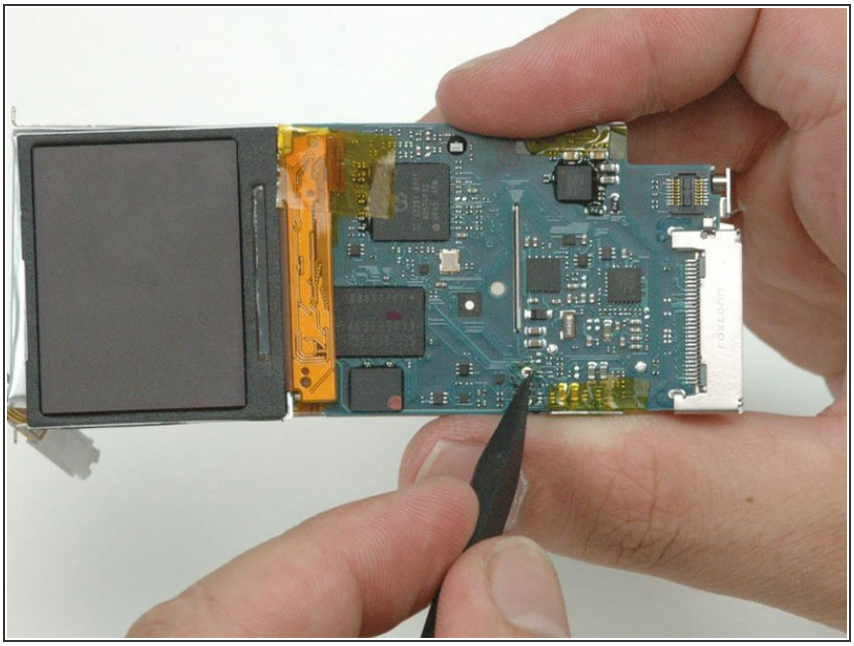
- Use a metal spudger to carefully straighten the battery wires. Be sure to only touch one contact at a time.

Step 19



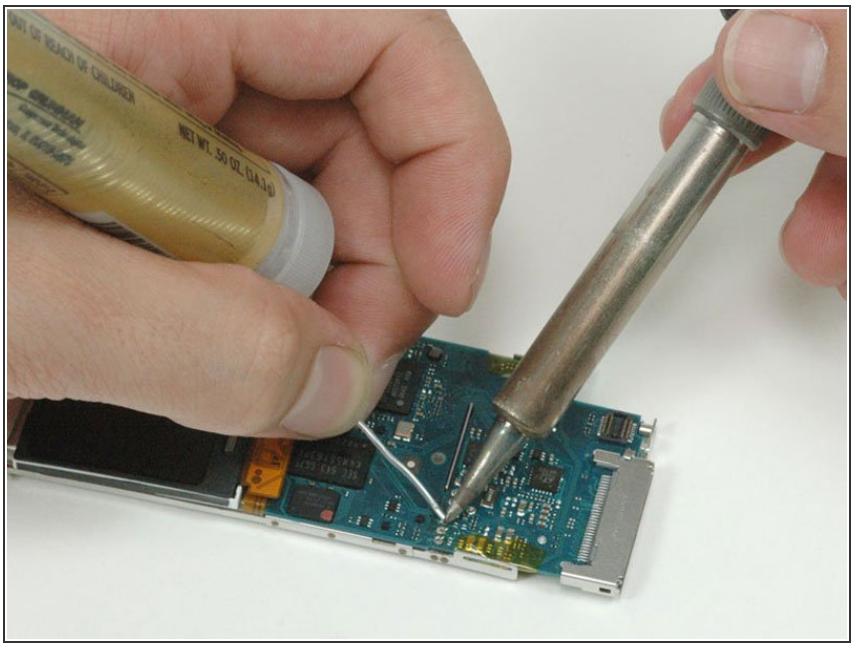
- Pull the battery wires through the logic board to free the battery. If the wires don't easily come free, make sure the wires are straight and all the solder has been removed.
- Slide the three wires of the replacement battery through the holes in the logic board. Going from the edge of the iPod, the order of wires is black, red, white.

Step 20



- Bend the wires over to prevent them from sliding out of the logic board.

Step 21



- Place the soldering iron onto the battery wire and metal connector for one to two seconds to heat them up.
- Add the solder wire and wait for the solder to melt onto the wire. Once a small bead has formed around the wire, lift the solder away first and then remove the soldering iron.
- Continue with the other two connections the same way, taking special care not to solder two of the connectors together.

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