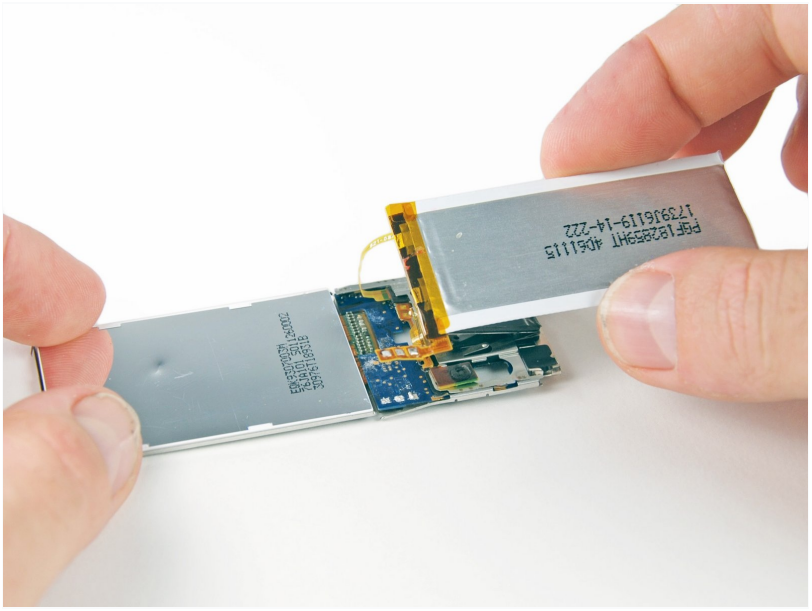
iPod Nano 5th Generation Battery Replacement

Bringing the power back to your 5th generation...

Written By: David Hodson



INTRODUCTION

Bringing the power back to your 5th generation iPod Nano.

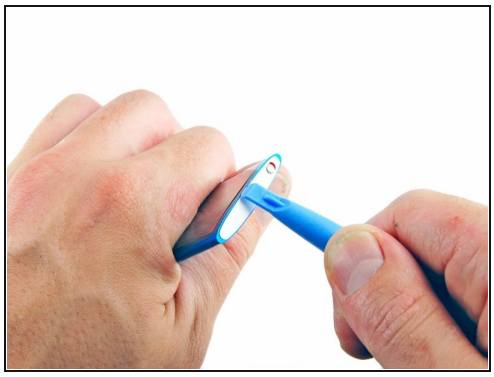
TOOLS:

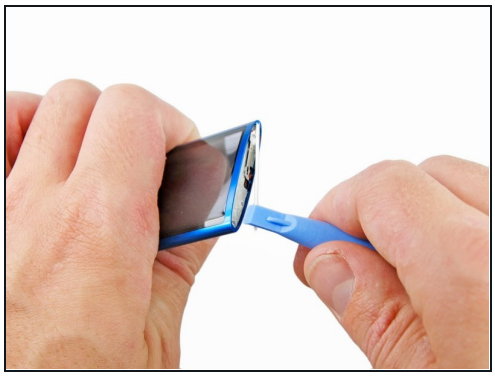
Heat Gun (1)
iFixit Opening Picks (Set of 6) (1)
Metal Spudger (1)
Phillips #00 Screwdriver (1)
Push Pin (1)
Spudger (1)
Tweezers (1)
iFixit Opening Tool (1)
Soldering Iron (1)

PARTS:

iPod nano (5th Gen) Battery (1)

Step 1 — Glass Panel

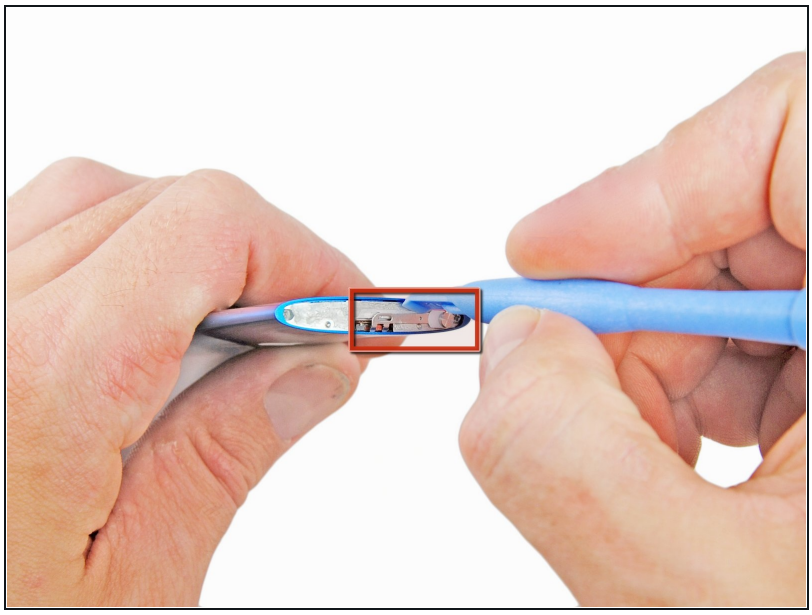




- Insert an iPod opening tool between the outer case and top bezel near the screen.
- Lifting up on the iPod opening tool, gently pry the top panel off of the device.

ⓘ The bezel is attached with adhesive, and may require some force to remove.

Step 2



- Use an iPod opening tool to pry the hold switch button off of the hold switch plate.

Step 3



- Remove the two 3.2 mm screws.

ⓘ These screws are angled toward the outer case and are also very small. Use a sharp screwdriver and be careful not to strip the screws.

Step 4

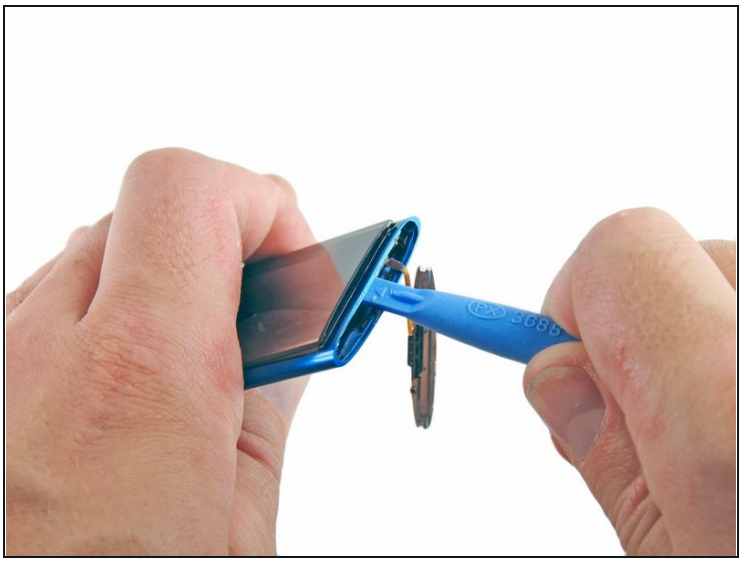


- Insert an iPod opening tool between the outer case and the metal hold switch plate near the top of the screen .
- While slightly lifting up on the iPod opening tool, pull the hold switch plate out of the iPod.

⚠ The hold switch plate is still attached to iPod by a very thin, very fragile ribbon cable. Be careful not to break it.

Step 5





ⓘ The glass panel is held in place by adhesive on all four sides. In the following steps, work carefully to avoid cracking the glass.

- Insert an iPod opening tool between the display and the glass panel at the top of the device.
- Rotate the iPod opening tool towards the rear of the device, slightly lifting the top of the glass out of the outer case.

⚠ The glass panel does not raise very far. Do not attempt to completely remove the panel yet, or you are likely to break the display screen.

Step 6



- While lifting the screen up with one iPod opening tool, insert a second iPod opening tool in between the outer case and the top left edge of the glass panel.
- Remove the first iPod opening tool from between the glass and LCD in the top of the device.

Step 7





- Prying up slightly on the iPod opening tool, insert a second iPod opening tool in between the front glass and the outer case, on the right side of the screen.
- Slide the second iPod opening tool along the right edge of the panel to remove the adhesive.

Step 8





- With one iPod opening tool still between the glass and outer case, insert a second iPod opening tool in between the front glass and outer case, on the left side.
- Slide the second iPod opening tool toward the bottom of the device to remove the adhesive.

Step 9



- Lifting the glass from the side nearest the top of the iPod, remove the glass panel from the Nano.

Step 10 — Click Wheel





- Use a heat gun to soften the adhesive underneath the plastic bezel at the bottom of the iPod.

⚠ Use a low heat setting and do not hold the heat gun in place for too long to avoid melting the plastic bezel.

- Use a plastic opening tool to pry the bezel from the case of the iPod and remove it.

Step 11





- Unscrew three screws from the bottom of the iPod:
  - Two 4.4 mm angled Phillips screws
  - One 5.4 mm Phillips screw.

ⓘ These screws may not come out on their own, so be sure not to lose them when removing the retainer.

- Use a plastic opening tool to pry the metal retainer out from the bottom of the iPod and remove it.

Step 12





- Insert a metal spudger into the slot at the bottom of the iPod just above the dock connector.
- Use the metal spudger to pry up the bottom edge of the click wheel.

Step 13

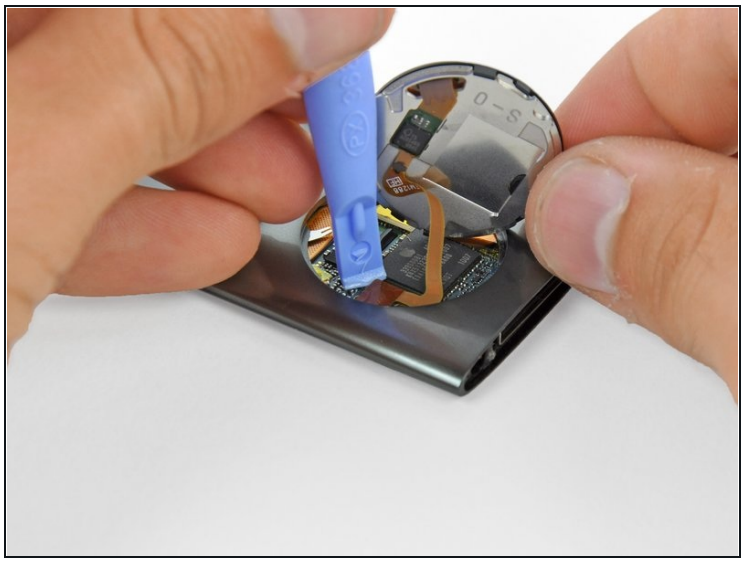




- Place a guitar pick between the click wheel and the case of the Nano and remove the metal spudger.
- Pry up the edges of the click wheel with the guitar pick until the click wheel comes free from the case.

⚠ Do not try to completely remove the click wheel yet, as it is still held in place by a ribbon cable.

Step 14

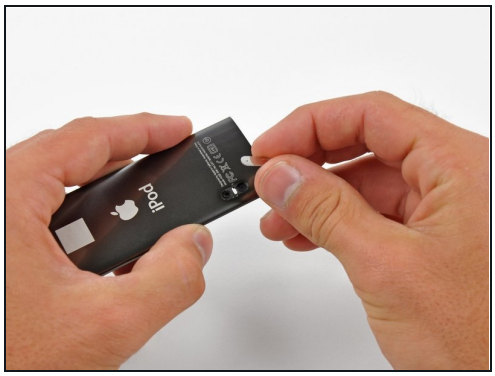




- Lift the click wheel out of the way with one hand and use a plastic opening tool to pry the click wheel ribbon cable connector off its socket on the logic board.
- Remove the click wheel.

Step 15 — Logic Board Assembly





- Use a heat gun to soften the adhesive underneath the camera/microphone cover.
- Pry the camera/microphone cover off the case with a metal spudger and remove it.

⚠ It is extremely difficult, if not impossible, to avoid damaging the iPod case near the camera. While this will not affect the iPod's functionality, it will hurt its cosmetic appearance.

ⓘ You can try this alternative method for removing the cover:

- Use a hot glue gun to apply a bead of glue across the cover.
- Move the nozzle in the glue for 20 seconds to heat the lens adhesive holding the lens in place.
- Press a spudger into the hot glue and hold it in place until the glue cools and hardens.
- Pull on the spudger with firm steady force, while using a fingernail to pry on the cover edge.

Step 16



- From the top of the iPod, insert a metal spudger between the outer case and the battery to remove the adhesive that holds the battery in place.

⚠ Be extremely careful not to poke or puncture the battery itself, as this may cause the battery to combust.

Step 17



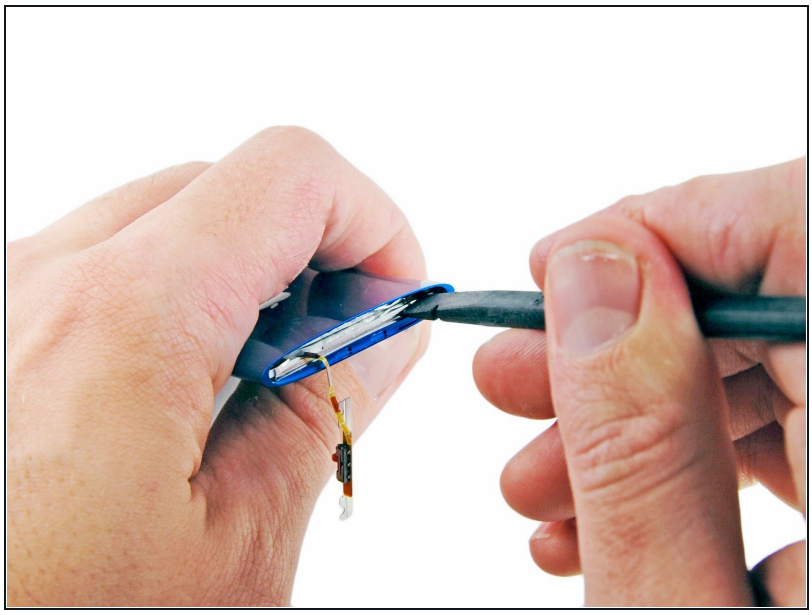




ⓘ There is a small white retainer between the camera and microphone that keeps the inner components from sliding around.

- Insert a push pin into the hole at the corner of the retainer and lift it out of the case.

Step 18



Once the retainer has been pushed past its hole in the outer case, the spudger used to depress it is no longer necessary.

- Using gentle but steady force, push on the top of the LCD to slide the logic board assembly out of the bottom of the iPod.

Do not push on the battery, as this may puncture it and cause it to combust.

Constantly mind the hold switch plate, making sure it doesn't snag on an edge and tear the ribbon cable.

Step 19



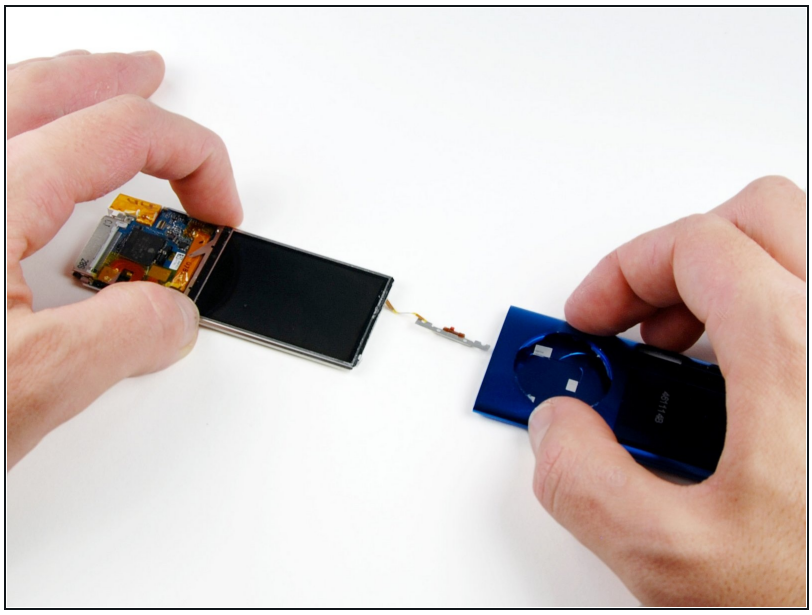


- Continue to push the logic board assembly through the outer case of the iPod with a spudger.

ⓘ Tolerances inside the Nano are extremely tight. Be very patient and go slowly when removing the logic board assembly, and make sure no components or ribbon cables get caught on the case.

ⓘ To make sure that the hold switch plate does not catch on the housing of the iPod and tear the cable, feed the switch straight down the center of the device, where the opening is the widest.

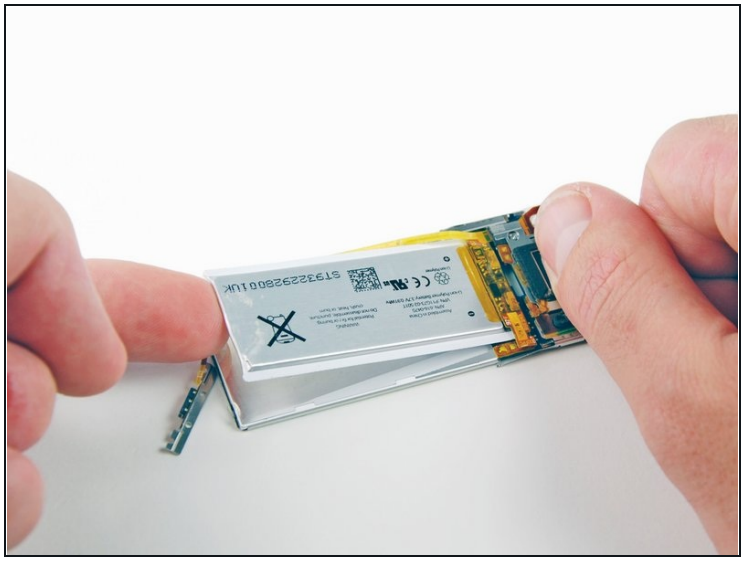
Step 20

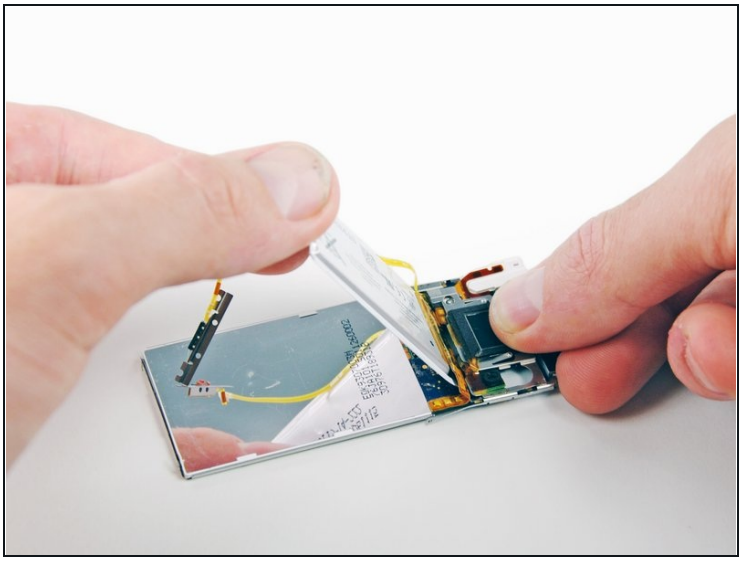


- Once the top of the LCD has cleared the bottom edge of the outer case, remove the logic board assembly from the body of the iPod.

ⓘ Again, be sure to mind the hold switch plate, that it doesn't catch on the bottom of the click wheel hole.

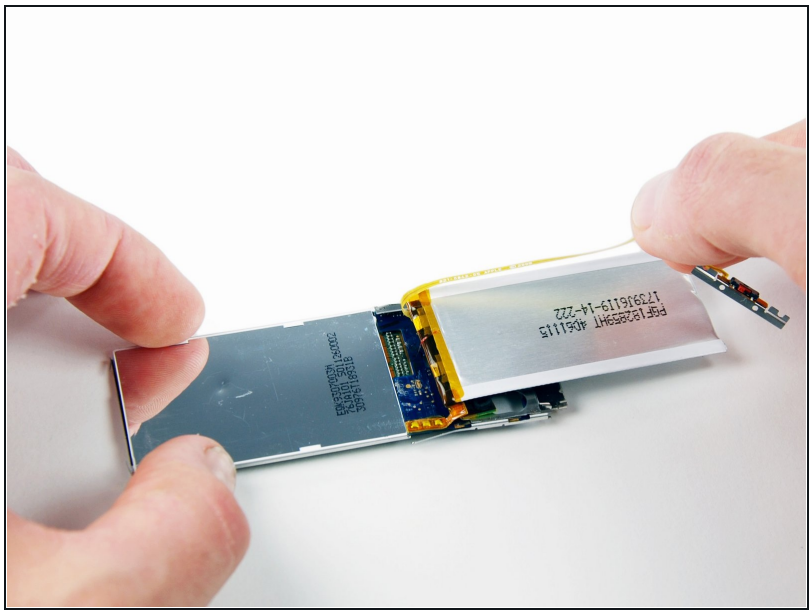
Step 21 — Battery





- Use your fingers to carefully lift the battery off the back of the LCD, starting at the top of the LCD.

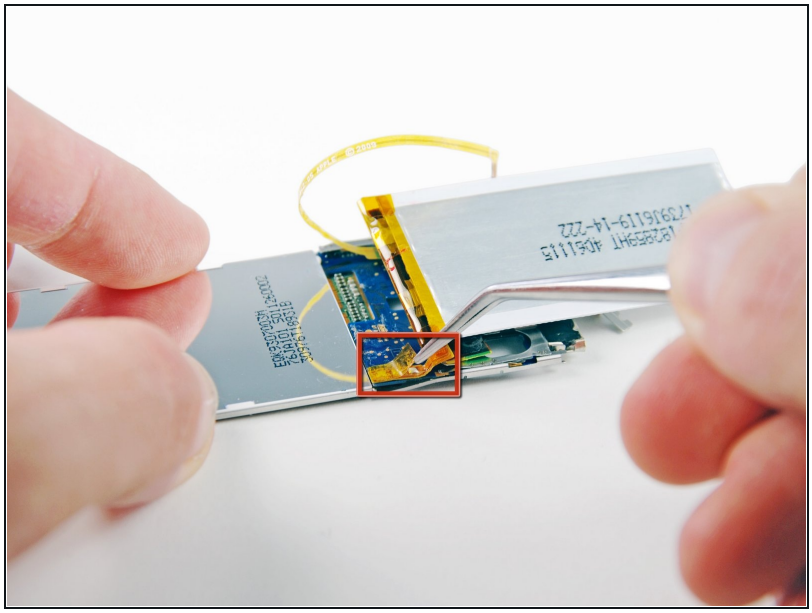
Step 22



- Turn the battery over so the orange hold button ribbon cable is visible along the underside of the battery.
- Peel the hold button ribbon off the battery.

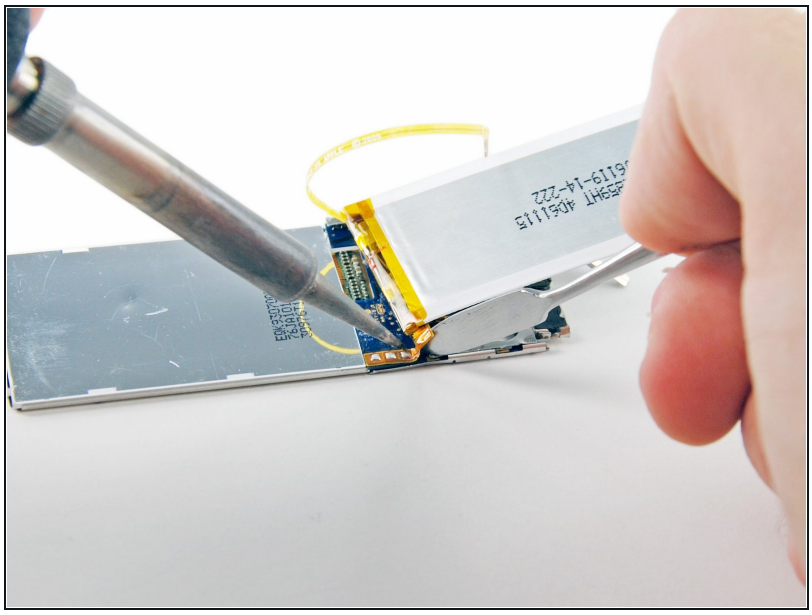
ⓘ The delicate ribbon cable is held in place by adhesive. Work slowly, taking care not to tear the ribbon.

Step 23



- Use a pair of tweezers to remove the orange tape that covers the three solder connections for the battery.

Step 24



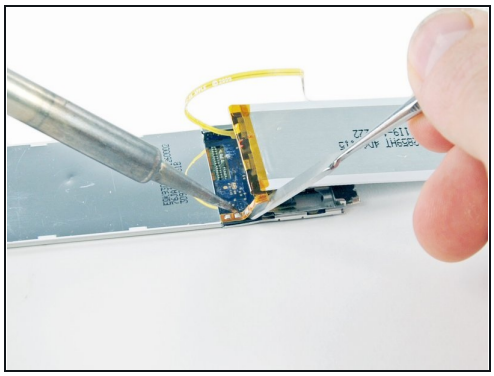
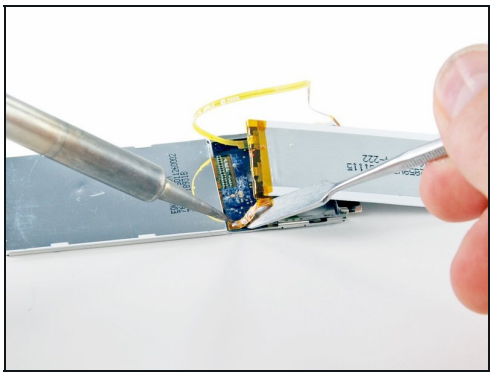
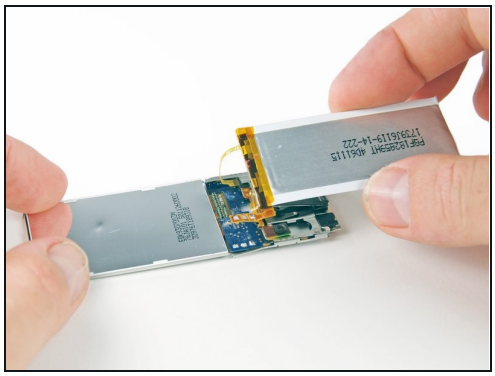
The battery on the Nano is attached via solder pads with small holes that go through the battery ribbon cable and attach to flat pads on the face of the logic board. In this step, you will heat each solder pad individually while using a metal spudger to pry it up from the logic board.

DO NOT bridge the connection between the solder pads both on the board and on the ribbon cable with your spudger. Shorts have the potential to ruin the logic board.

Beware of overheating the board and the cable. Only hold the tip of the iron against the pad long enough to let the solder melt. Excess heat buildup has the potential to ruin the logic board or melt the ribbon cable.

- Start working from the right side of the battery ribbon cable. Heat the rightmost solder pad while gently prying up from under the ribbon cable to free it from the board.

Step 25

- Repeat the previous step for the two remaining solder pads, working from right to left.
- Once the three connections have been desoldered, lift the old battery off the logic board.

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