Oral-B Vitality Battery Replacement

Electric toothbrushes are powered by a...

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INTRODUCTION

Electric toothbrushes are powered by a rechargeable battery, that enables the reciprocating brushing motion of the bristles. If your electric toothbrush loses power quickly or doesn't hold charge, most likely the rechargeable battery needs to be replaced.

TOOLS:

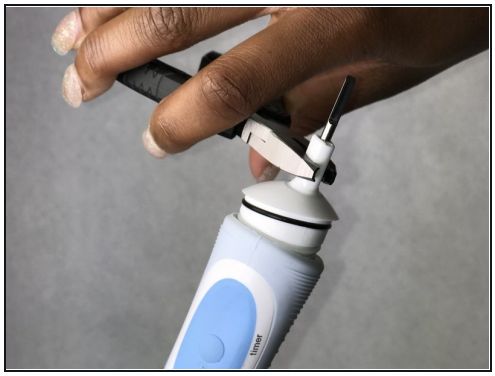
- Slip Joint Pliers (1)
- iFixit Opening Tool (1)
- Soldering Iron (1)
- Lead-Free Solder (1)
- Soldering Tweezers (1)
- Desoldering Braid (1)

PARTS:

- Ni-MH 49mm x 14mm Braun Toothbrush Battery (1)
- Ni-Cd 49mm x 14mm Braun Oral-B Toothbrush Battery (1)

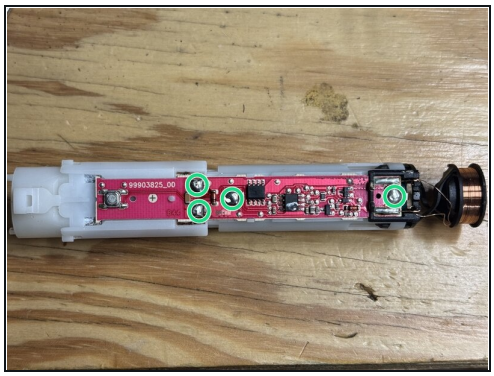
Step 1 — Remove toothbrush head

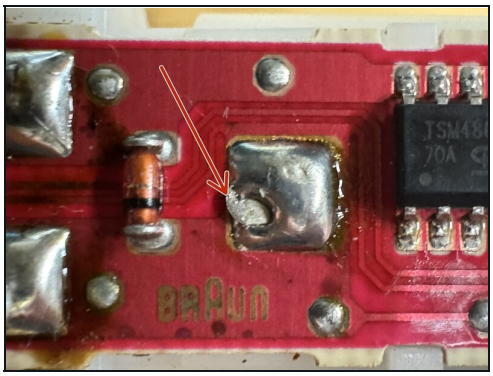


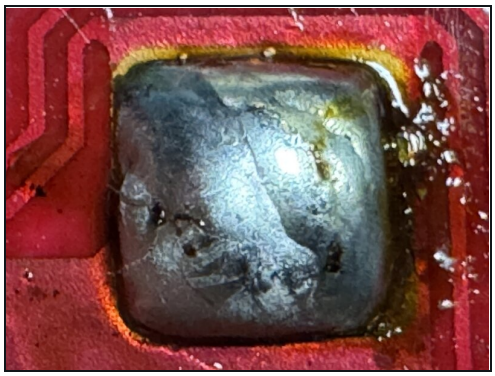


- Pull off head, and use pliers to remove the white cap. Pull out the circuit core.

Step 2 — Remove toothbrush head and inspect board, battery, and motor

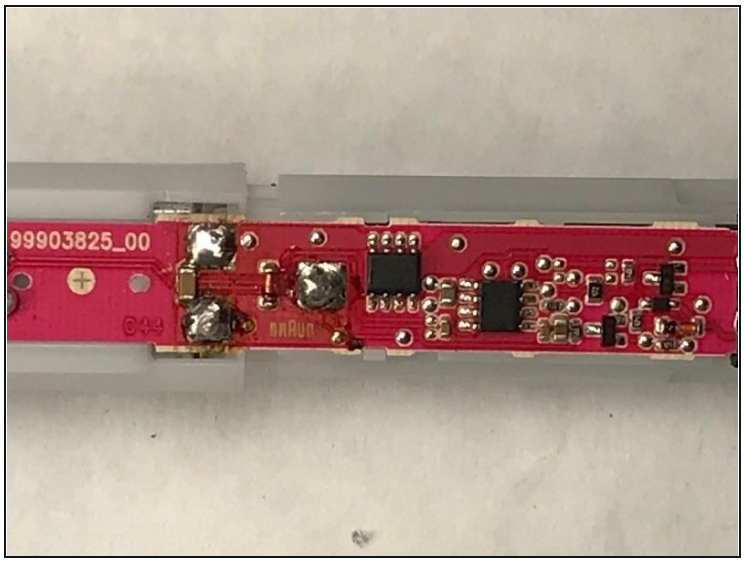


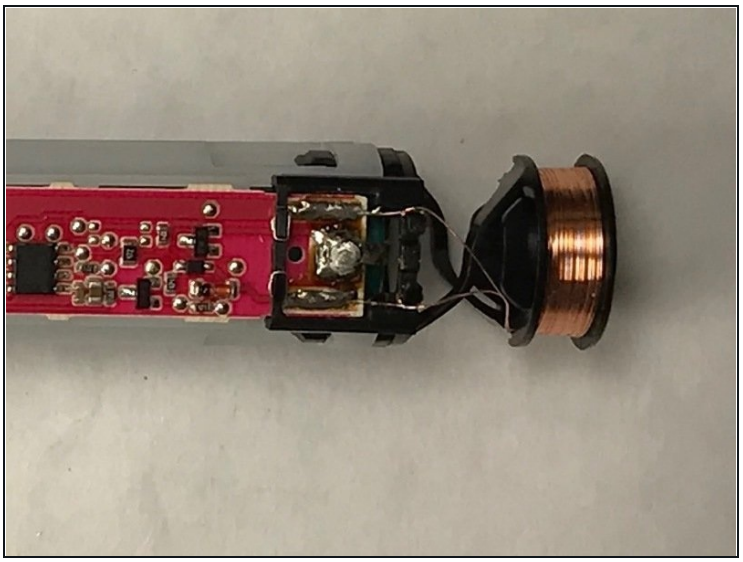




- Inspect four pads with green circles (Picture #1), they should be fully covered in solder.
- Picture #2 shows the center pad missing some solder and not making a good connection.
- Picture #3 shows repaired solder pad. Test toothbrush battery and motor operation without toothbrush head. If toothbrush is now working, there may be no need to replace the battery - if battery is providing between 1.2 and 1.5 volts and motor is actuated by button presses, stop here and reassemble the toothbrush.
- If battery voltage is less than 1.2 volts, consider testing motor operation and button presses with two tests; using a AA battery and a pair of wire leads touch one end of leads to battery ends and the other wire ends to: A) left board pads (to test motor leads) and then B) to right board pads (to test battery leads, center pin is positive).
- If motor doesn't start after Step 2 troubleshooting, continue to Step 3.

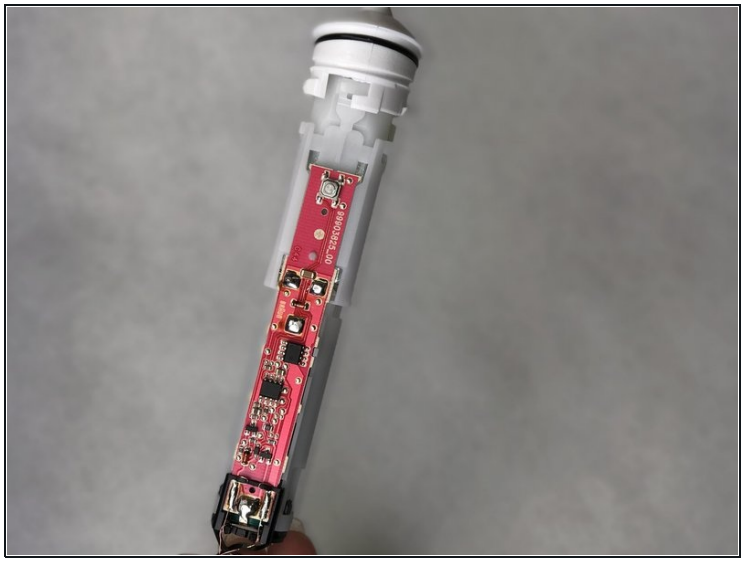
Step 3 — Desolder motor and battery leads

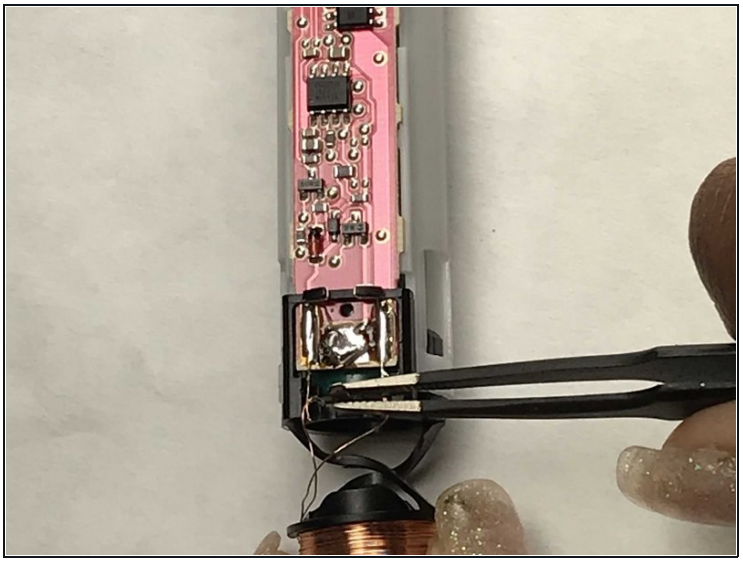




- De-solder in these four (4) locations.
- The two (2) motor connections
- The Positive (+) side of the battery
- The Negative (-) side of the battery

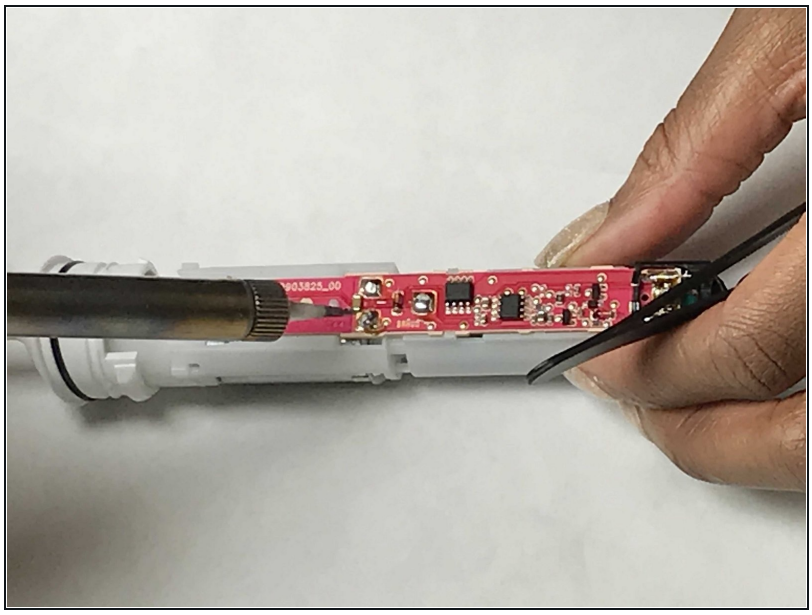
Step 4





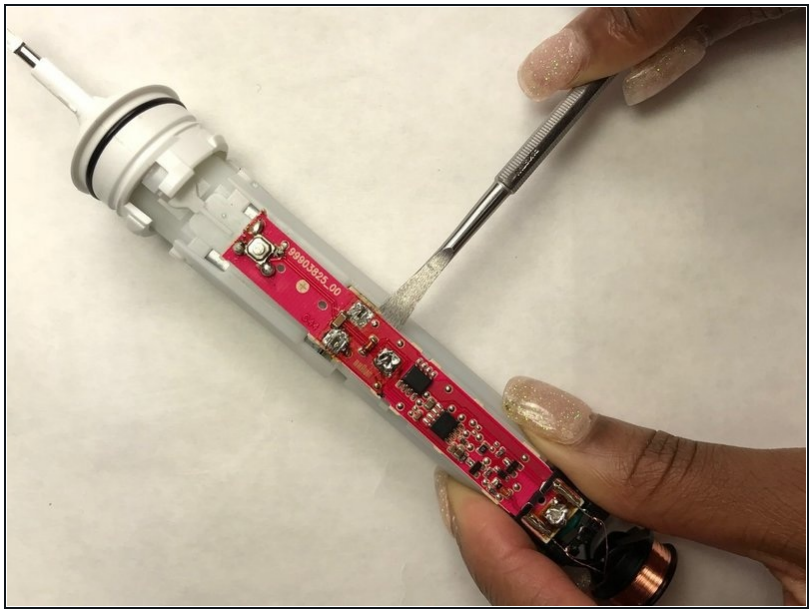
- De-Solder lower battery connection terminal. Bend back battery terminal to clear circuit board.

Step 5



- De-Solder the three (3) upper terminals from the circuit board.

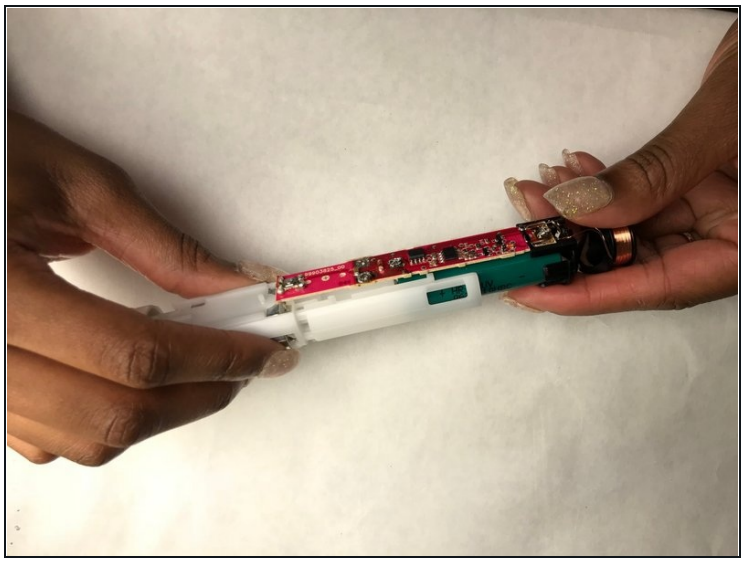
Step 6

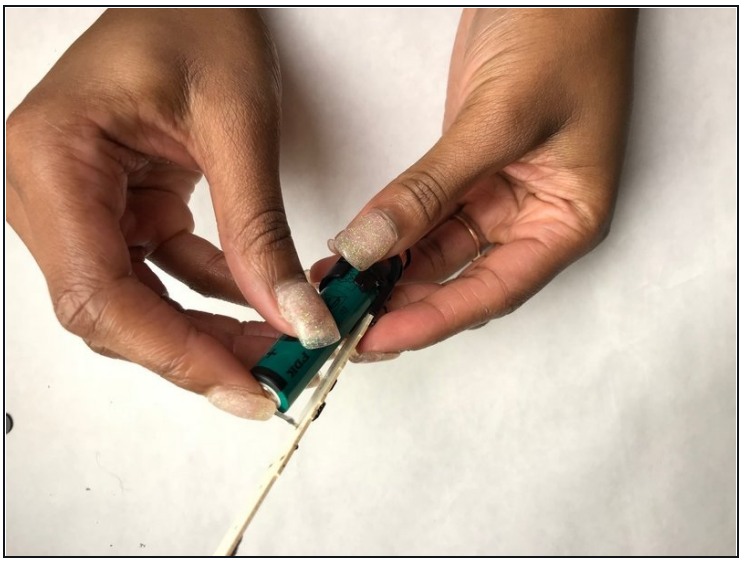


- Use plastic prying tools to carefully pry off the circuit board. (Utilize metal spedger as a last resort)

⚠ There is a white tab that goes through the board, be careful when removing the circuit board.

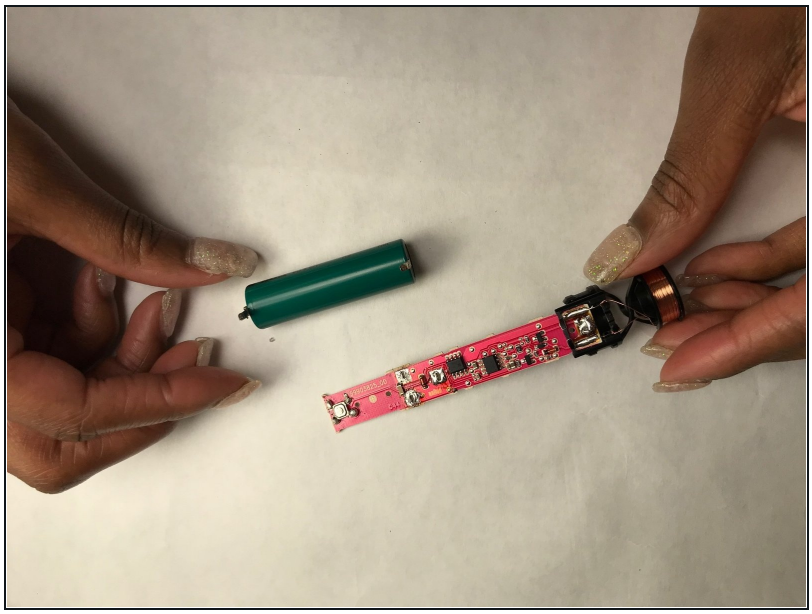
Step 7





- Pull the circuit board and battery assembly out. Then proceed to remove the battery from the circuit board

Step 8



- When re-installing battery, remember to bend down lower terminal. And the negative (-) terminal is closest to the copper wires

- **Ensure you recharge the toothbrush after the repair.** Even if the replacement battery is already fully charged, the toothbrush will fail to power on if you don't recharge the toothbrush.

To reassemble your device, follow these instructions in reverse order. Remember to apply just enough solder to re-attach the terminals.