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Xiaomi Redmi Note 7 Battery Replacement

How to replace a worn-out or dead battery in your Xiaomi Redmi Note 7.

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This document was generated on 2022-05-24 03:10:47 PM (MST).

INTRODUCTION

Use this guide to replace a worn-out or dead battery in your Xiaomi Redmi Note 7.

It is possible to remove the battery without removing the loudspeaker and the main flex cable first. However for easier handling during the battery removal we highly recommend to remove both.

If your battery is swollen, take appropriate precautions. For your safety, **discharge your battery below 25%** before disassembling your phone. This reduces the risk of a dangerous thermal event if the battery is accidentally damaged during the repair.

You'll need replacement adhesive to reattach components when reassembling the device.

TOOLS:

- iOpener (1)
- Suction Handle (1)
- iFixit Opening Picks (Set of 6) (1)
- Tweezers (1)
- Spudger (1)
- Phillips #00 Screwdriver (1)
- ESD Safe Tweezers Blunt Nose (1)

PARTS:

- Precut Adhesive Card (1)
- iFixit Adhesive Remover (for Battery, Screen, and Glass Adhesive) (1)

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## Step 1 — Loosen the rear glass adhesive

- Apply a [heated iOpener](#) to the rear glass to loosen the adhesive underneath. Apply the iOpener for at least two minutes.

Step 2 — Insert an opening pick

- Secure a suction handle to the bottom edge of the rear glass, as close to the edge as possible.

  - ⓘ If your rear glass is badly cracked, covering it with a layer of clear packing tape may allow the suction cup to adhere. Alternatively, very strong tape may be used instead of the suction cup. If all else fails, you can superglue the suction cup to the rear glass.

- Lift the rear glass with the suction handle to create a small gap between the glass and the frame.

  - ⓘ In case you have trouble creating a gap, apply more heat to further soften the adhesive. Follow the iOpener instructions to avoid overheating.

- Insert an opening pick into the gap.

- Slide the opening pick to the bottom right corner to slice the adhesive.

Step 3 — Slice the bottom edge adhesive
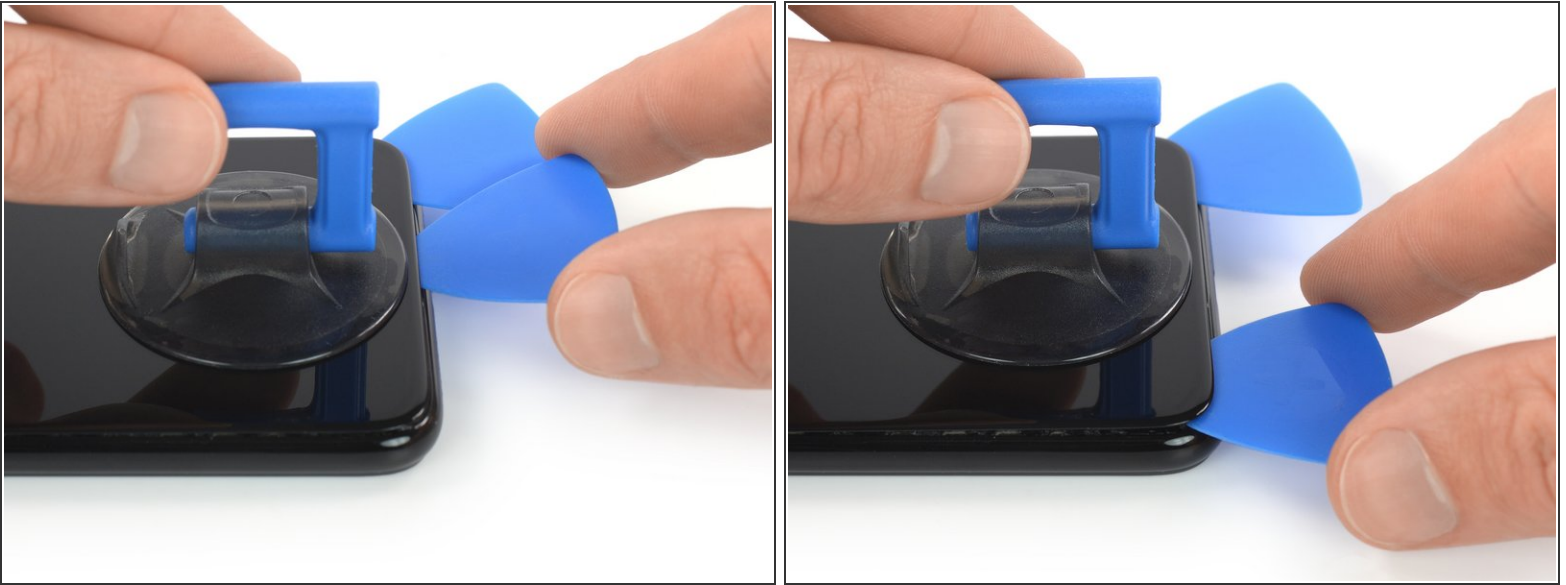
- Insert a second opening pick and slide it to the bottom left corner to slice the adhesive.
  - Leave the opening picks in place to prevent the adhesive from resealing.

Step 4 — Slice the lefthand-side adhesive

- (i) If the adhesive becomes hard to cut, it has most likely cooled down. Use your iOpener to reheat it.

- Insert a third opening pick at the bottom left corner.

- Slide the opening pick along the left edge of the phone to slice the rear glass adhesive.

- Leave the opening pick in its place at the top left corner to prevent the adhesive from resealing.

Step 5 — Slice the top edge adhesive

- Insert a fourth opening pick under the top left corner of the rear glass.

- Slide the opening pick along the top edge of the phone to slice the rear glass adhesive.

- Leave the opening pick in the top right corner to prevent the adhesive from resealing.

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Step 6 — Slice the righthand-side adhesive

- Insert a fifth opening pick at the top right corner of the phone.

- Slide the opening pick along the right edge to slice the remaining adhesive.

⚠ Don't try to remove the rear glass all the way yet. The fingerprint sensor is still connected to the motherboard.
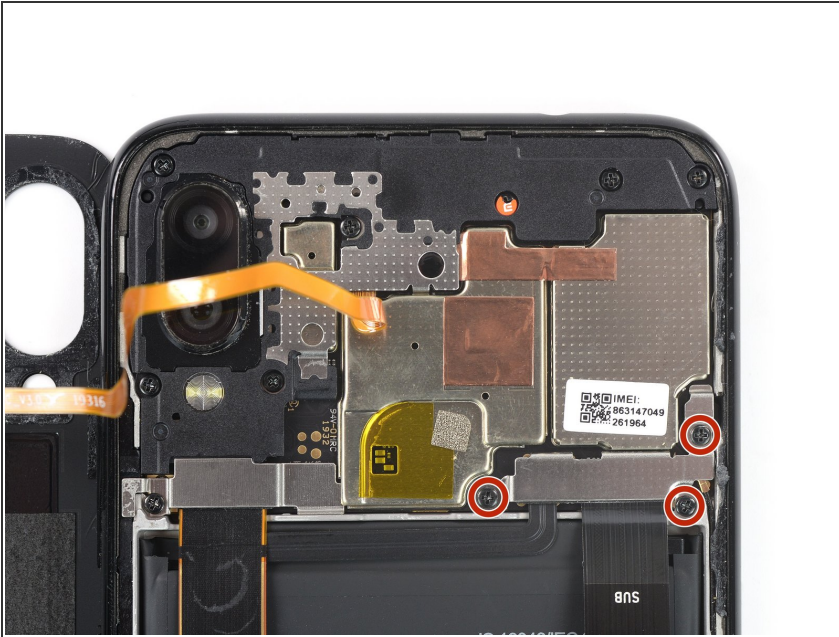
Step 7 — Open up the phone assembly

- Carefully fold the rear glass to the left side of the phone assembly like you'd open the front cover of a book.

⚠ Avoid tensioning the fingerprint flex cable during this process.

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Step 8 — Unfasten the screws

- Use a Phillips screw driver to remove the three 3.3 mm-long screws securing the connector cover to the midframe.

Step 9 — Remove the connector cover

- Use a pair of tweezers to remove the connector cover.

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Step 10 — Disconnect the battery

- Use the flat end of a spudger to pry up and disconnect the battery flex cable from the motherboard.

Step 11 — Peel the protective foil off

- ⓘ For easier handling during repairs we highly recommend to separate the back cover including the fingerprint sensor from the phone assembly.

- Use a pair of tweezers to carefully peel the yellow protective foil off the ZIF connector.

Step 12 — Open the ZIF connector

- Use the pointed end of a spudger to open the ZIF connector by bringing its black flap in an upright position.

Step 13 — Disconnect the fingerprint flex cable

- Disconnect the fingerprint flex cable by pulling it straight out off the ZIF connector using a pair of tweezers.

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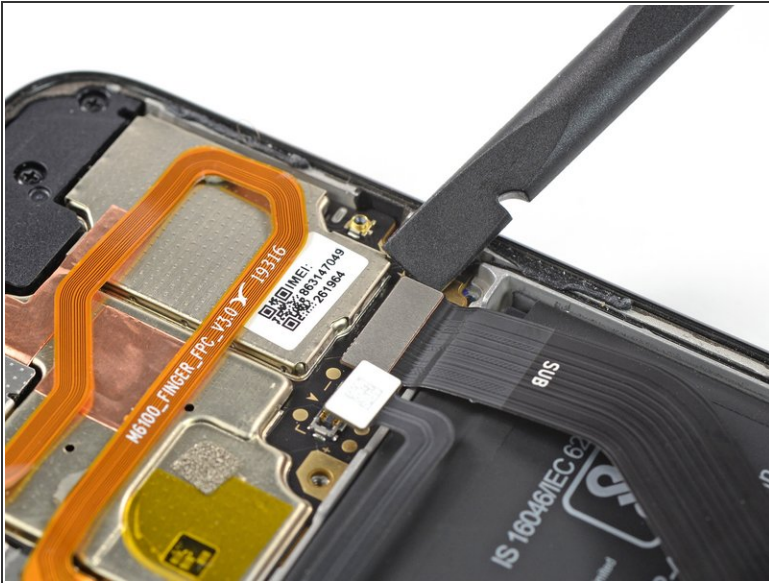
Step 14 — Unfasten the screws

- Use a Phillips screw driver to remove the eight 3.3 mm-long screws securing the loudspeaker assembly.

Step 15 — Remove the loudspeaker assembly

- Slide an opening pick underneath the right edge of the loudspeaker assembly.

- Use the opening pick to pry up the loudspeaker assembly.

- Remove the loudspeaker assembly.

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Step 16 — Disconnect the main flex cable

- Use the flat end of a spudger to pry up and disconnect the main flex cable.

Step 17 — Unfasten the screw

- Use a Phillips screw driver to remove the 3.3 mm-long screw securing the display connector cover to the midframe.

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Step 18 — Remove the display connector cover

- Use a pair of tweezers to remove the display connector cover.
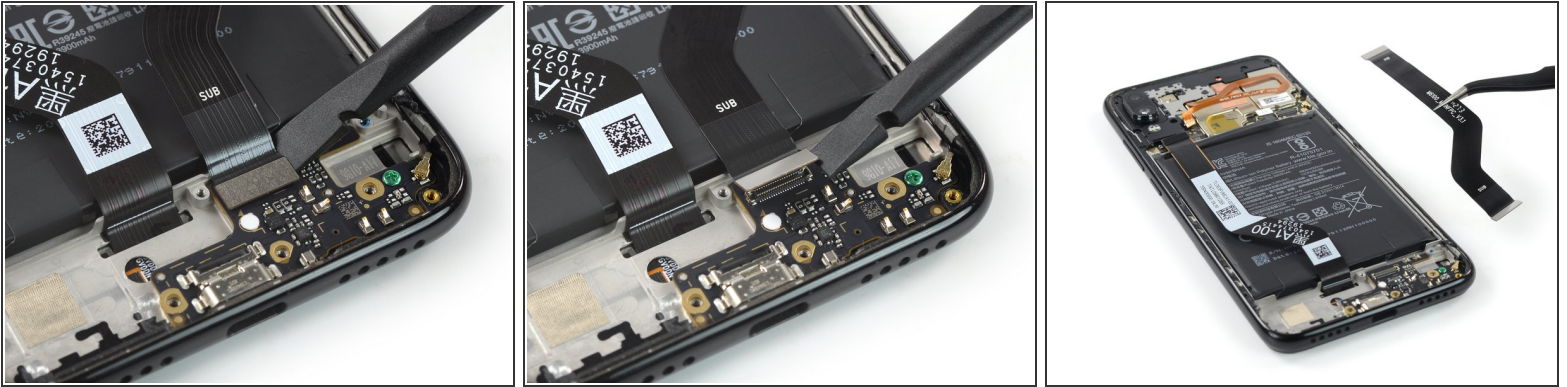
Step 19 — Disconnect the display flex cable

- Use the flat end of a spudger to pry up and disconnect the display flex cable.

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Step 20 — Remove the main flex cable

- Use the flat end of a a spudger to pry up and disconnect the main flex cable.

- Remove the main flex cable.

Step 21 — Fold back the display flex cable

- Fold the display flex cable towards the bottom edge of the phone and secure it to your working surface with a small piece of tape.

⚠️ Take care not to puncture or bend the battery with your tool in the following steps —a punctured or bent battery may leak dangerous chemicals or cause a thermal event.

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Step 22 — Remove the pull tabs

- Use a pair of blunt nose tweezers to peel the black colored end of the left pull tab off the battery.

- Grab the pull tab with your tweezers and slowly pull it away from the battery, toward the bottom of the Redmi Note 7.

  - Pull hard enough to maintain tension on the strip, but don't force it. Give it plenty of time to stretch and detach from the battery.

  - Don't press down on the battery. Hold the Redmi Note 7 firmly by its sides.

  - (i) Keep the strip flat and unwrinkled. Try to pull evenly on the whole strip, rather than pulling mainly in the middle or on one side.

  - Pull at a low angle so the strip doesn't snag on the edge of the battery.

  - (i) A good way to get this done is to pull out the adhesive strip about 3 cm and then roll it up on your tweezers.

- If the adhesive strip breaks off, try to retrieve it using your fingers or blunt tweezers, and continue pulling—but do not pry under the battery.

Step 23

- Use a pair of blunt nose tweezers to peel the black colored end of the right pull tab off the battery.

- Grab the pull tab with your tweezers and slowly pull it away from the battery, toward the bottom of the Redmi Note 7.

Step 24 — Remove the battery

- Remove the battery.

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If possible, turn on your device and test your repair before installing new adhesive and resealing.

[Secure the new battery with pre-cut adhesive](#) or double-sided adhesive tape. In order to position it correctly, apply the new adhesive into the device at the places where the old adhesive was located, not directly onto the battery. Press the new battery firmly into place.

To reassemble your device, follow the above steps in reverse order. Apply new adhesive where necessary after cleaning the relevant areas with isopropyl alcohol (>90%).

For optimal performance, after completing this guide, [calibrate](#) your newly installed battery.

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Answers community](#) for help.

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