



Garmin Fenix 3 Motherboard Replacement

Use this guide to replace an old or faulty motherboard in your Garmin Fenix 3 smartwatch.

Written By: Adam Estabrook



INTRODUCTION

Even the best electronics die out over time, especially devices used in harsh conditions. This guide will show how to replace the motherboard of your Garmin Fenix 3 if the electronics are showing signs of failure. You will need a T6 Torx screwdriver, a T5 Torx screwdriver, and a spudger.

TOOLS:

- [T6 Torx Screwdriver](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)

Step 1 — Display Assembly



- Use a T6 screwdriver to remove the five 1.7 mm screws from the watch face.

Step 2



- Carefully lift the face off the watch base.

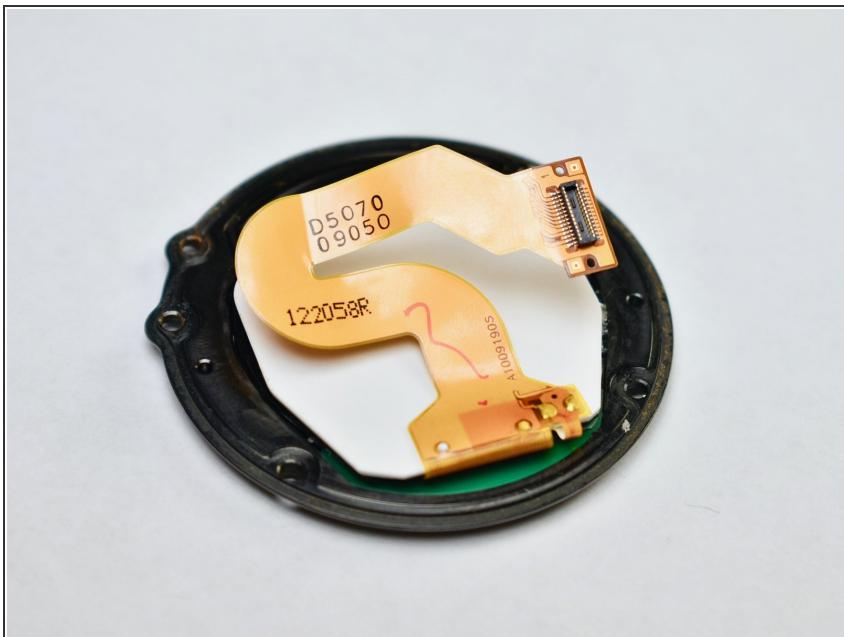
⚠ Do not yank the face. A ribbon connector connects the face and the motherboard, and yanking could result in damage to the motherboard or ribbon.

Step 3



- Use a spudger to lift up and free the screen ribbon cable's press-fit connector from the motherboard.

Step 4



- Set the watch face aside.

Step 5 — GPS Antenna



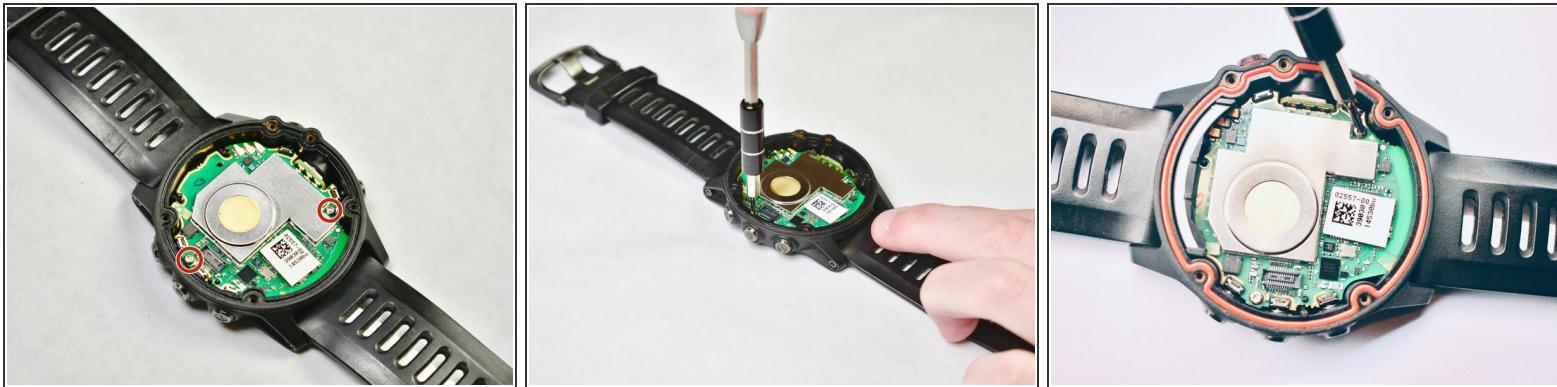
- Locate the antenna, which is located on the motherboard.

Step 6



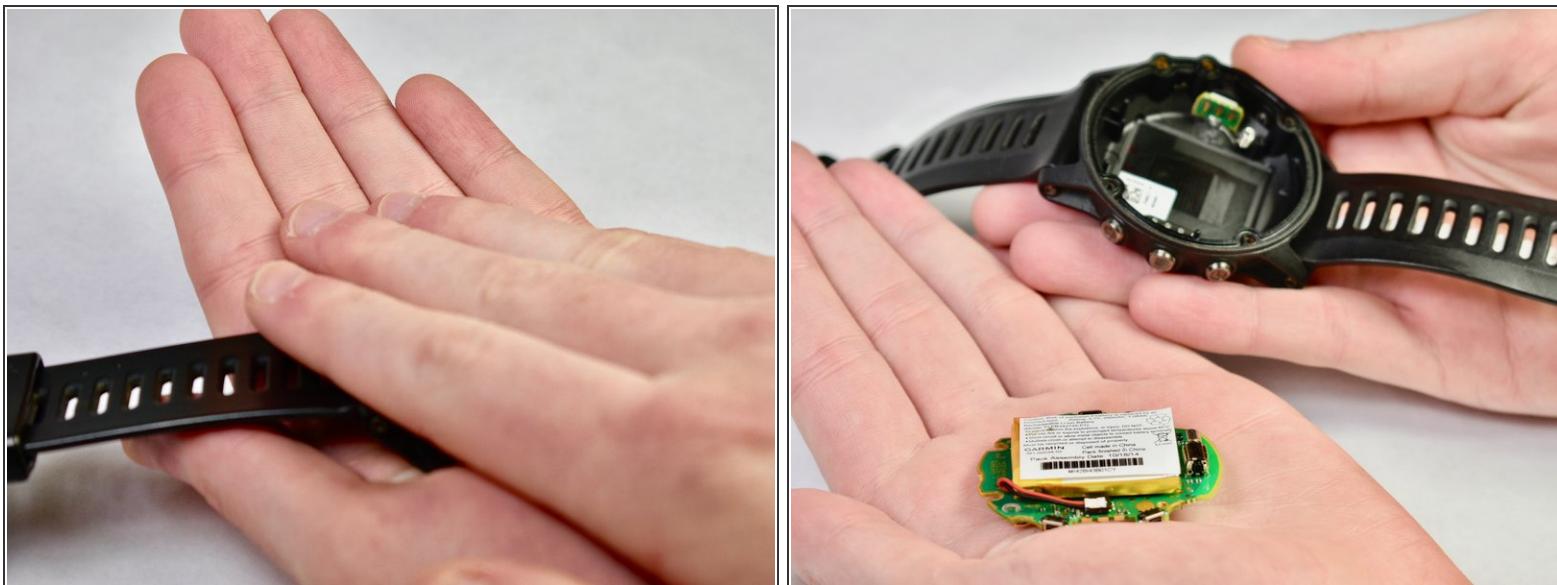
- Carefully remove the antenna, and set it aside.

Step 7 — Motherboard



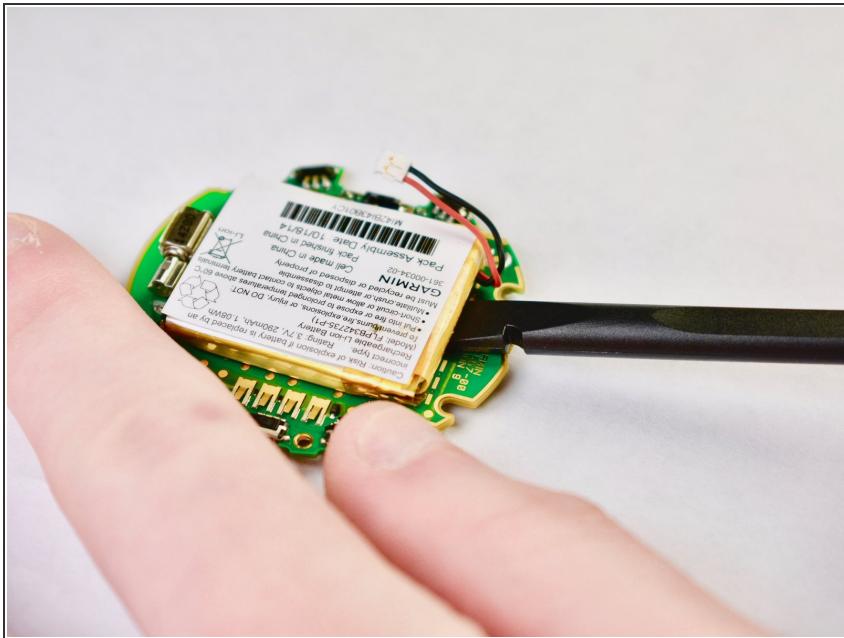
- Locate the two silver 1.4 mm T5 screws, and carefully unscrew them.
- ⓘ To avoid losing or dropping the screws once they are loose, use tweezers to extract them.

Step 8



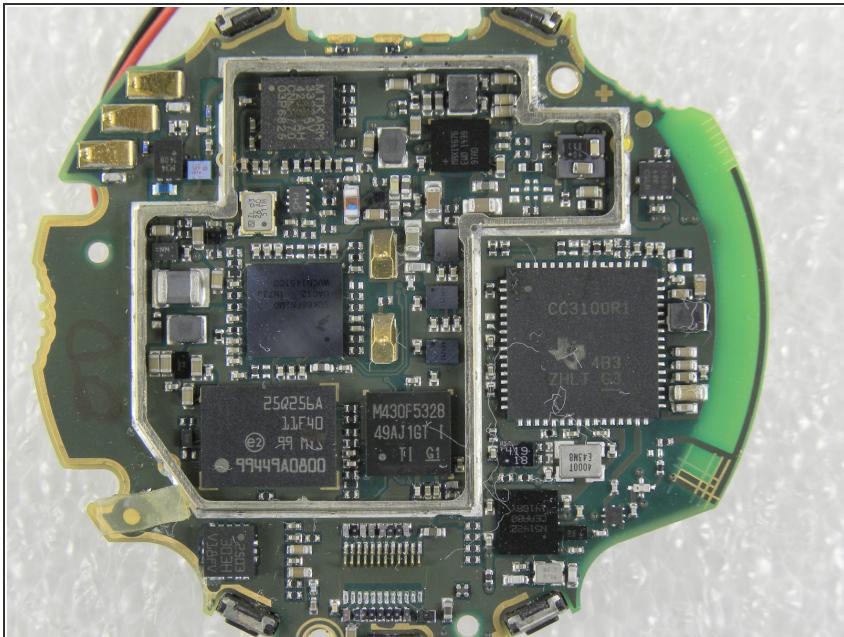
- Lift the watch and turn it over one hand. The motherboard should fall out easily.
- ⓘ When reinserting your motherboard, slide it in instead of pressing it. The motherboard must go beneath a lip at the base of the watch body.

Step 9



- Using the spudger, separate the motherboard from the battery, which are both held together with a mild adhesive.

Step 10



- Motherboard without metal cover

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