



# Garmin Nuvi 2597LMT Motherboard Replacement

Use this guide to replace the battery in the Garmin Nuvi 2597LMT.

Written By: Patrick McNett



## INTRODUCTION

This guide will walk you through the process of replacing a faulty or broken motherboard in your Garmin Nuvi 2597LMT. You may need this guide to replace the motherboard if you know it is broken, the device doesn't run at all, or if you know the motherboard got water damaged. Make sure you are very careful when working with your device; you don't want to break any of the fragile components inside or rip the ribbon cable connecting the two halves.

### TOOLS:

- [Spudger \(1\)](#)
- [iFixit Opening Tools \(1\)](#)
- [T5 Torx Screwdriver \(1\)](#)
- [Portable Soldering Iron \(1\)](#)
- [Tweezers \(1\)](#)

## Step 1 — Battery



- Turn your device over so the back is revealed and you can see the screws in the four corners.
- Remove the four 3mm width by 6mm length T5 Torx screws using your screwdriver.

## Step 2



- Use the plastic opening tool to pry open the device at the seam where the two halves meet, prying all along the sides and the top seams if need be.
- ⚠** Do it slowly so you don't accidentally rip the ribbon cable that connects the digitizer to the motherboard, as well as don't completely separate the halves as this can tear the ribbon cable.

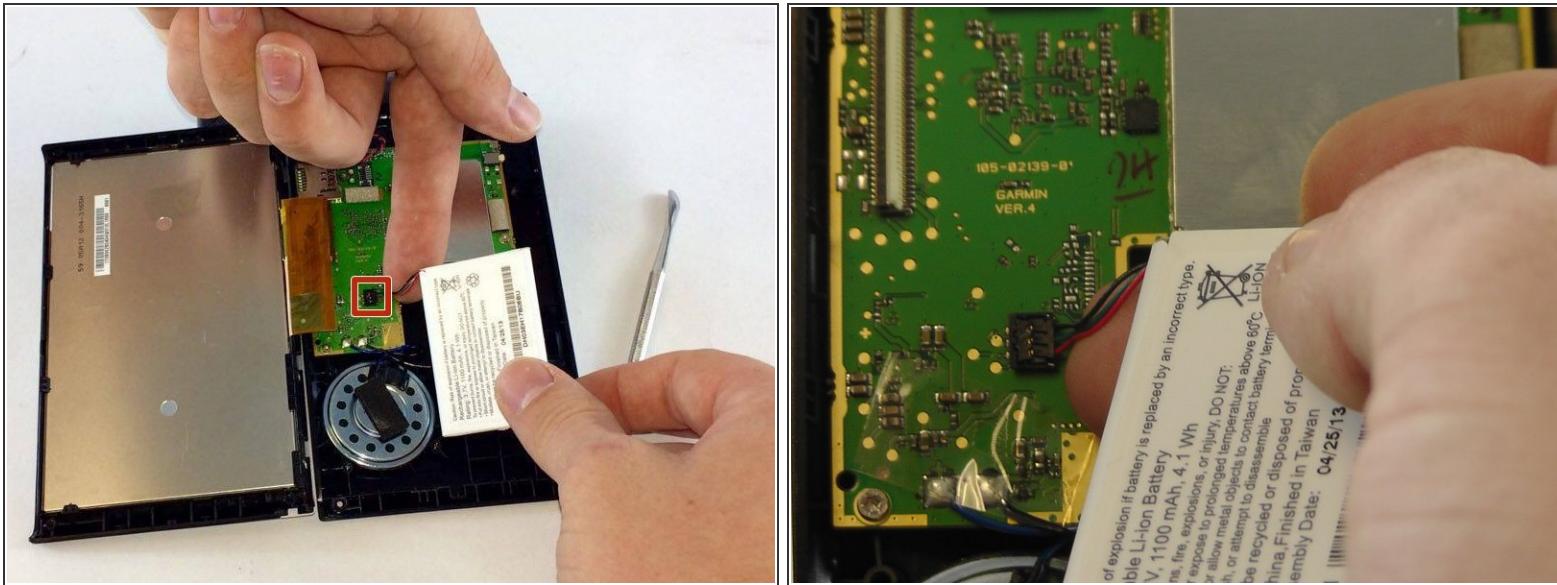
## Step 3



- Locate the battery and then use your spudger to gently lift the battery, which is held to the case using a sticky pad, and free it from its position.

**⚠** When you remove the battery, do so slowly so that the wires connecting it to the motherboard aren't torn. The wires will be disconnected in the next step.

## Step 4



- Use your hands or a spudger to gently lift the wires from underneath to disconnect the connector from the motherboard.
- Once you have disconnected the battery from the motherboard, you can safely set it aside.

## Step 5 — Motherboard



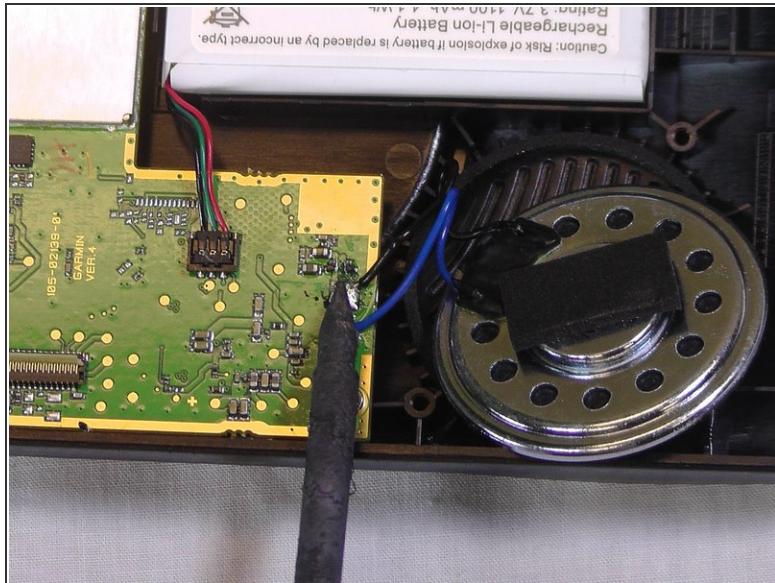
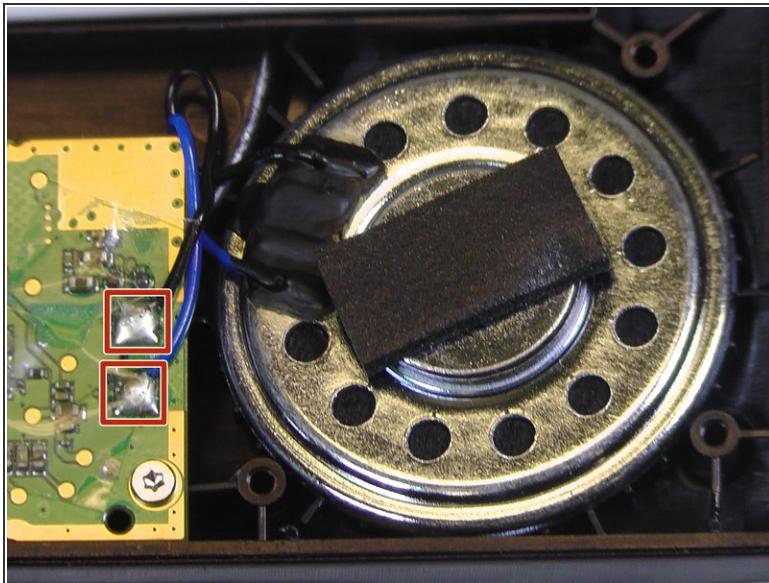
- Use your tweezers to flip back the tab of the ZIF (Zero Insertion Force) Connector, that is used to keep the ribbon cable in place.
- This releases the ribbon cable separating the two halves of the device.

## Step 6



- Use your thin spudger to gently lift the speaker off of the sticky pad and away from the casing.

## Step 7

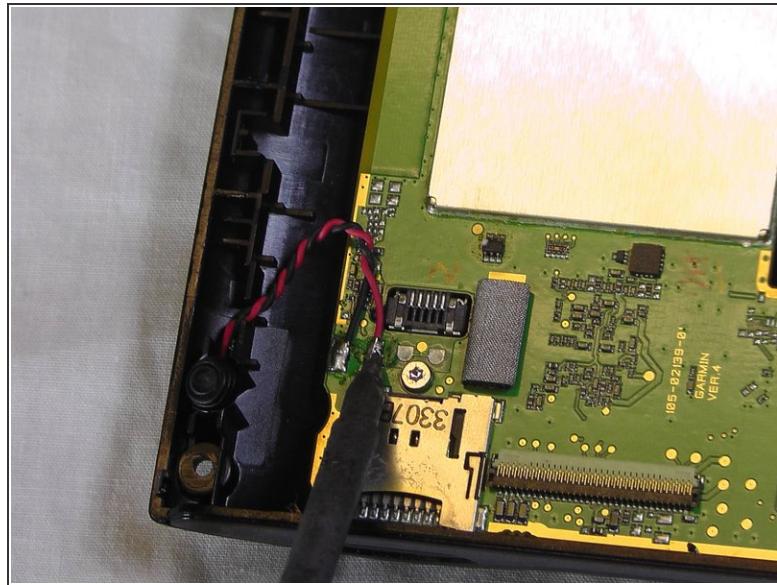
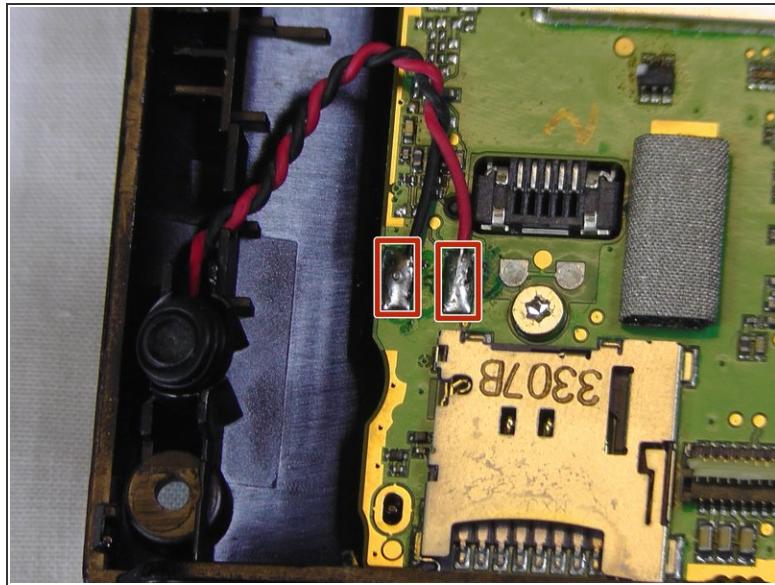


- Use your soldering iron to disconnect the wires from the motherboard. Disconnect the ground wire (the black one) and the positive wire (the blue one).

**⚠** The soldering iron is very hot and do not touch the wires to anything as it may stick to it when it cools.

- ⓘ** After you have finished this step and the wire ends have cooled, you can safely set the removed speaker aside.

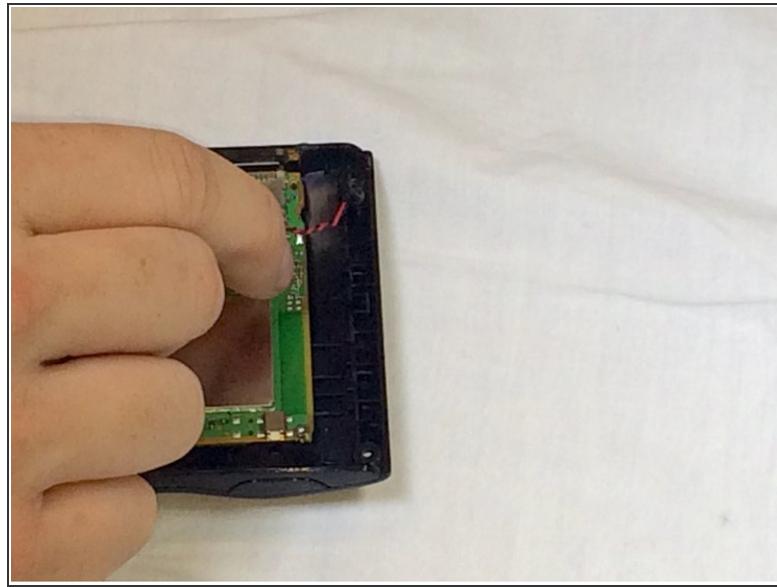
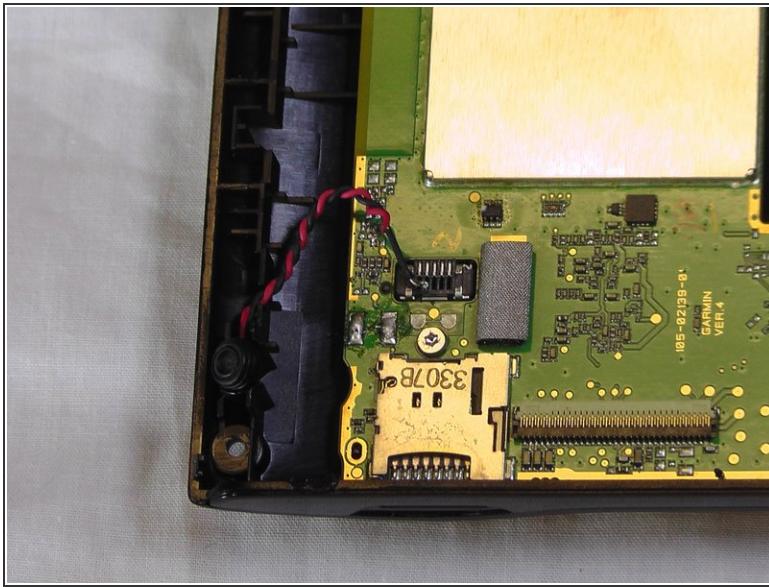
## Step 8



- Use your soldering iron to disconnect the wires from the motherboard. Disconnect the ground wire (the black one) and the positive wire (the red one).

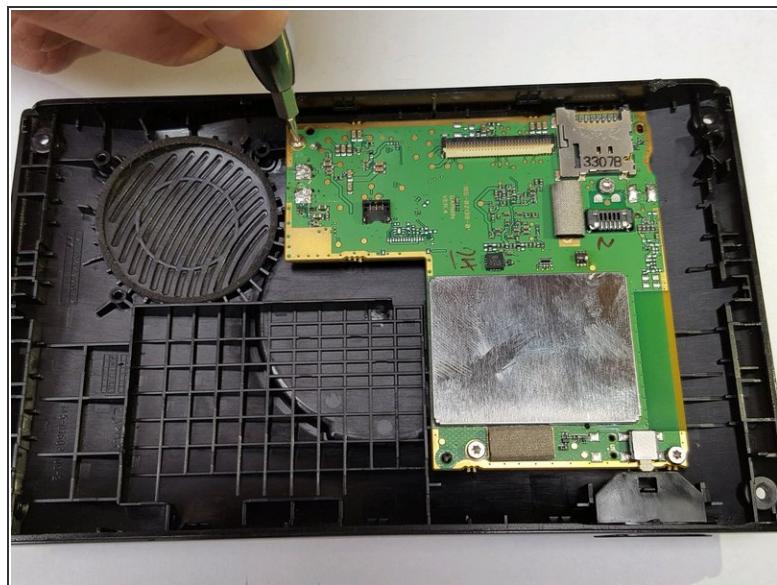
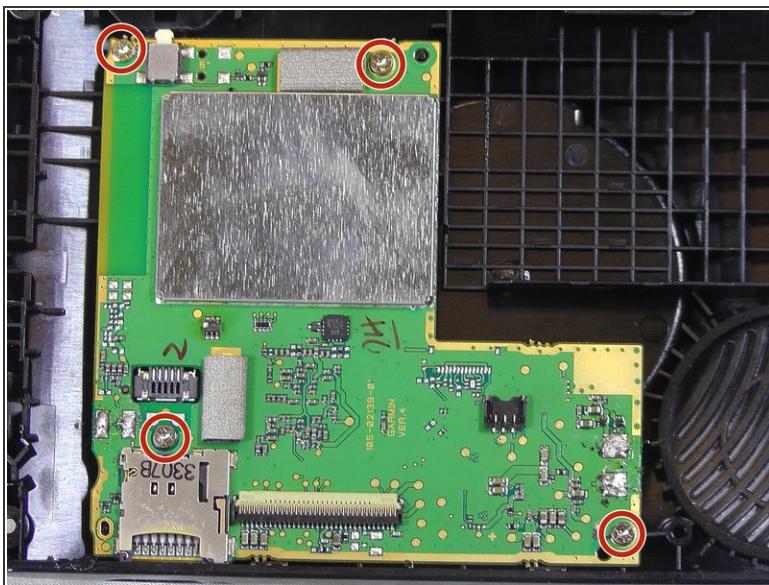
**⚠** The soldering iron is very hot and do not touch the wires to anything as it may stick to it when it cools.

## Step 9



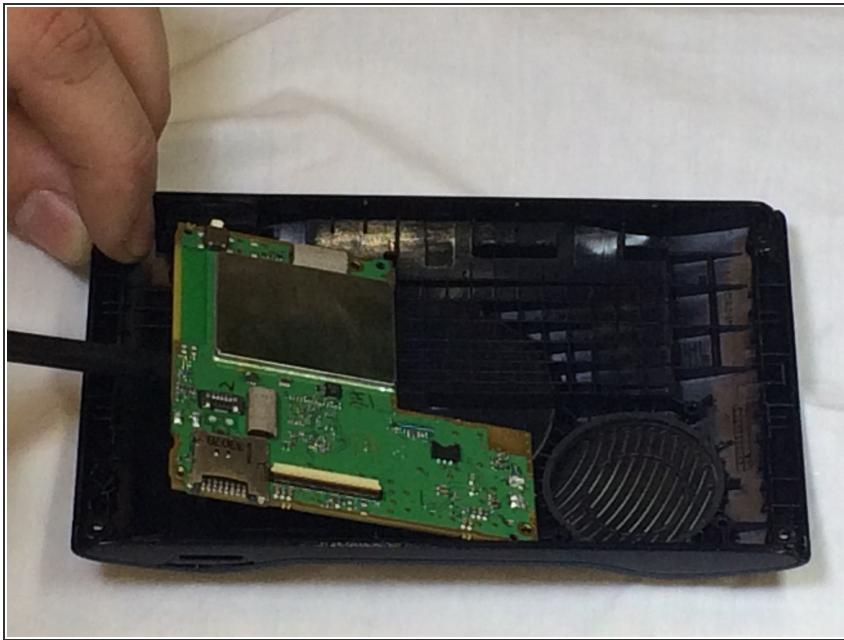
- Use your hands to gently pull the microphone up and out of the casing.
- After this step is complete, you can safely set the removed microphone aside.

## Step 10



- Remove the four 4mm width by 5mm length T5 Torx screws using your screwdriver.

## Step 11



- Use your spudger to gently lift the motherboard out, it just sits in there so you don't have to struggle to get it out.

- i* After this step, you can safely set your motherboard aside since it is out of the casing.

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