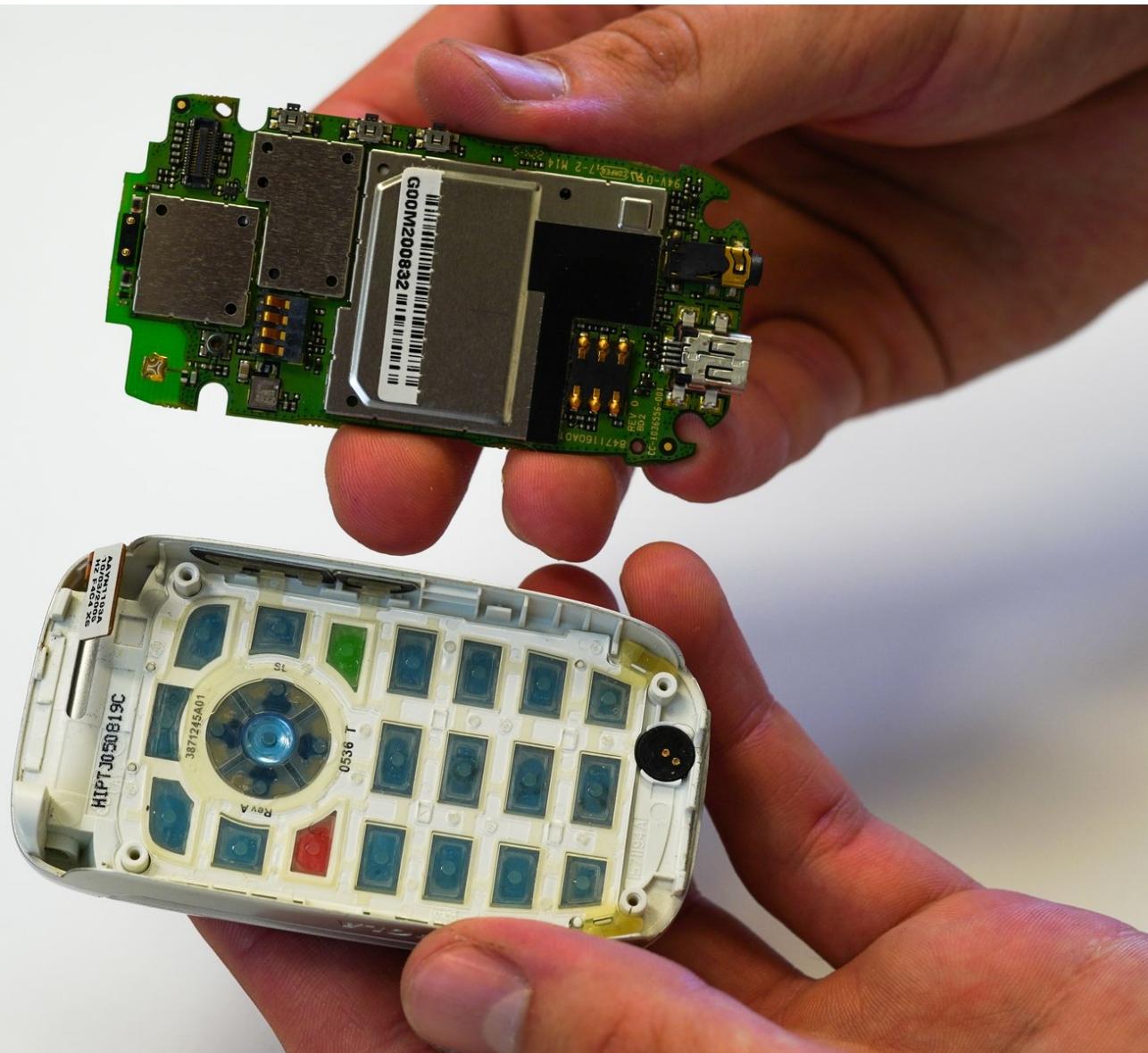




# Motorola V190 Mini-USB Port/Motherboard Replacement

Shows how to replace the mini-USB port/motherboard for a Motorola V190 flip phone.

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## INTRODUCTION

If your Motorola V190 cellular phone is unable to connect to the mini-USB cable, if your phone is unable to charge, or if the mini-USB port is loose, use this guide to replace the mini-USB port. The mini-USB port allows you to charge your phone.

While the mini-USB port—which is attached to the phone's motherboard—is removed, be sure to clean the port using a compressed air canister.

Make sure to power down your phone before beginning.

### TOOLS:

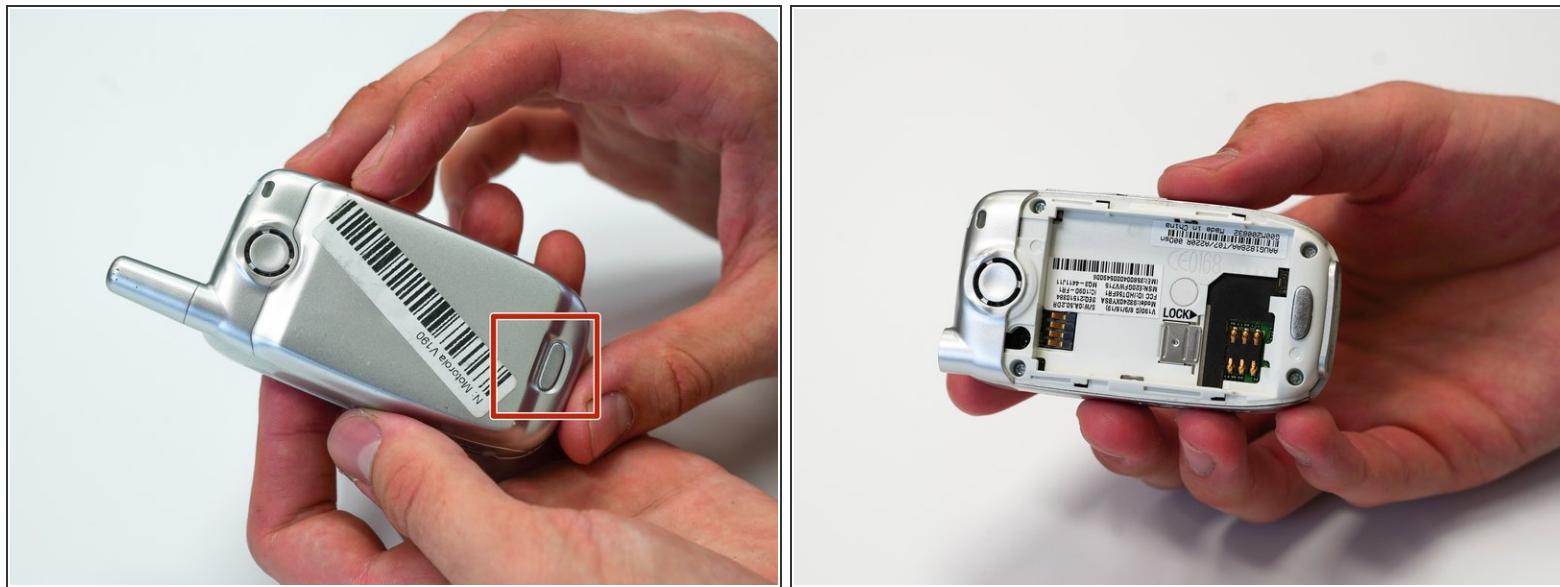
- [TR6 Torx Security Screwdriver \(1\)](#)
- [iFixit Opening Tools \(1\)](#)

## Step 1 — Antenna



- Rotate the antenna counter-clockwise until the antenna is completely removed.

## Step 2 — Battery



- Press the button at the bottom of the back cover.
- Pull the back cover down.
- Remove the battery.

**(i)** Our device is missing the battery.

## Step 3 — Mini-USB Port/Motherboard



- Use the TR6 Torx Security Screwdriver to remove the four 6.3mm Torx screws on the back.

## Step 4



- Use the iFixit opening tool to pry open the crevice at the top of phone.
- Use the same tool to pry open the crevice at the bottom of the phone.

**⚠** At this time, do not separate the ribbon from the motherboard at the bottom of the phone.

## Step 5



- Remove the black rubber piece from the top of the motherboard.
- Disconnect the rectangular ribbon from the motherboard.
- Remove the motherboard.

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