

DJI Mini 2 Main Board Replacement

This guide will show you how to successfully...

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INTRODUCTION

This guide will show you how to successfully replace the main board inside the DJI Mini 2 drone.

The main board in the DJI Mini 2 helps the drone tell the other parts of the drone what to do and connects the controller and phone connected to the drone. If the main board is damaged the drone will not function or connect to the controller and phone the user wants to connect to. For more information on what may be causing your issue, check out the <u>Troubleshooting page</u> for this device.

This guide requires the use of ESD-safe tools to avoid damaging the motherboard or other sensitive components.

After replacing the motherboard, you will need to calibrate your DJI Mini 2 drone. Some calibration processes can be done with the DJI Fly mobile app, but for some processes, like gimbal calibration, you will need to use additional software. How to calibrate the gimbal watch this video tutorial https://youtu.be/mu03HWXpIM4

[video: https://www.youtube.com/watch?v=EQH0EGZKa2o]

TOOLS:

- iFixit Opening Tool (1)
- Mako Driver Kit 64 Precision Bits (1)
- ESD Safe Tweezers Blunt Nose (1)

Step 1 — Battery



- Face the DJI Mini 2 away from you so that you are looking at the charging ports.
- Use your finger to open up the back panel.

Step 2



- Pinch the locking mechanism on the battery to release the lock.
- Pull the battery straight out of the compartment.

Step 3 — Drone Body



- Unfold the wings of the drone.
- Place the drone upside down on a flat surface.
- (i) There should be stickers on the device telling you how to unfold the propeller arms.

Step 4



Remove the four 5 mm J000 screws near each propeller arm.



- Flip the drone back over.
- Use a combination of the opening tool and your fingers to pry open the top panel of the drone along the seams.

Step 6



Remove the two 5 mm J000 screws located in the battery hatch and near the ports on the back of the drone.



- Flip the drone over again.
- Pry off the bottom panel of the drone using the opening tools and your fingers.

Step 8 — Main Board



• Remove the three 3mm J000 screws on the black plate.



• Use your fingers to pull the black plate off to reveal main board.

Step 10



- ▲ Try to avoid disturbing the blue thermal paste covering two of the large board components. If the paste is disturbed or splotchy in places it may need to be removed and reapplied. For more information refer to the <u>How to Apply Thermal Paste guide</u>.
 - Using ESD Safe Tweezers Blunt Nose, remove the 5 cables attached to the main board.



 Use the ESD Safe Tweezers Blunt Nose and your fingers to pull off the main board from the drone carriage.

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