DJI Mini 2 Drone Arms Replacement

How to replace the DJI Mini 2's drone arms.

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INTRODUCTION

This guide will show you how to successfully replace an arm on the DJI Mini 2 drone, this will allow a drone with body damage to be repaired and fly again.

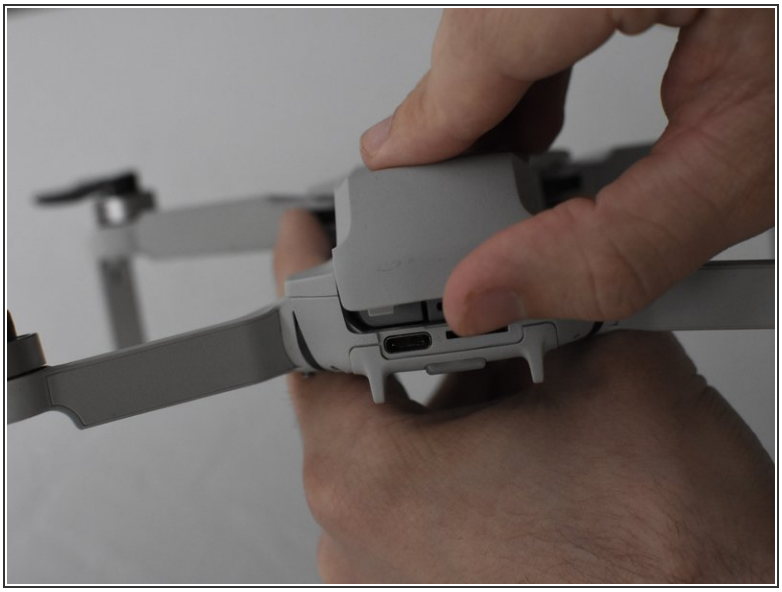
The drone arm stores the wires that connect the motors attached to the propellers and motors themselves. Damage to the drone arms can cause the drone have an unstable flight or ground the drone.

This guide requires the use of ESD-safe tools and a Soldering Kit. If you are new to soldering here is a guide to help you with this process.

TOOLS:

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

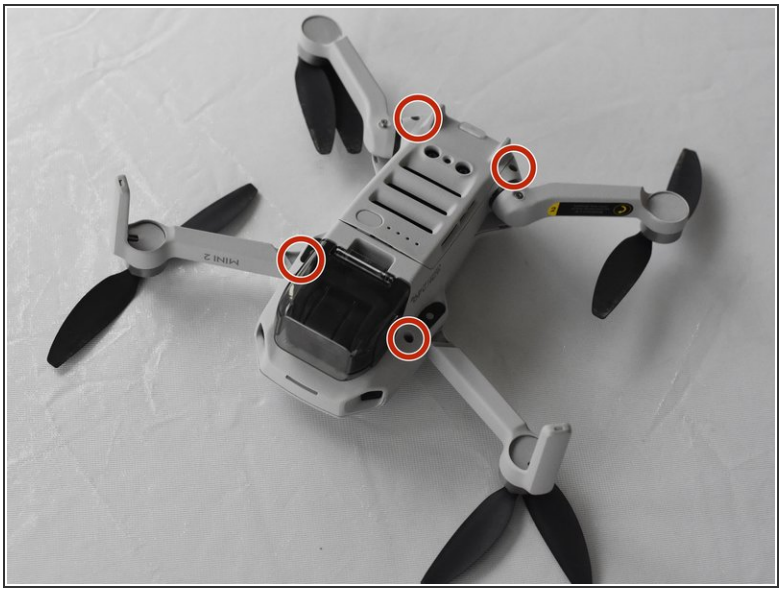
- Pinch the locking mechanism on the battery to release the lock.
- Pull the battery straight out of the compartment.

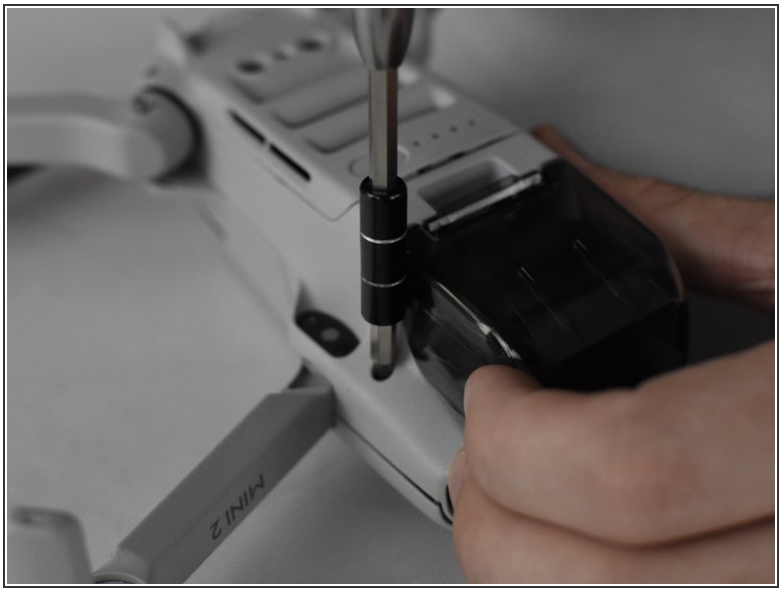
Step 3 — Drone Body

- Unfold the wings of the drone.
- Place the drone upside down on a flat surface.

There should be stickers on the device telling you how to unfold the propeller arms.

Step 4

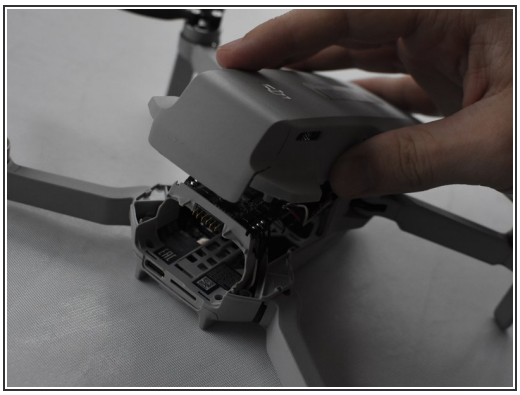




- Remove the four 5 mm J000 screws near each propeller arm.

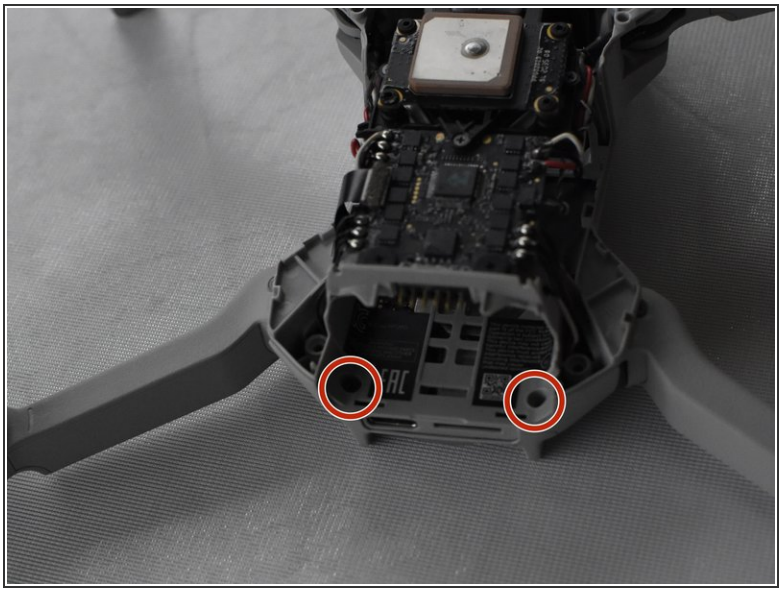
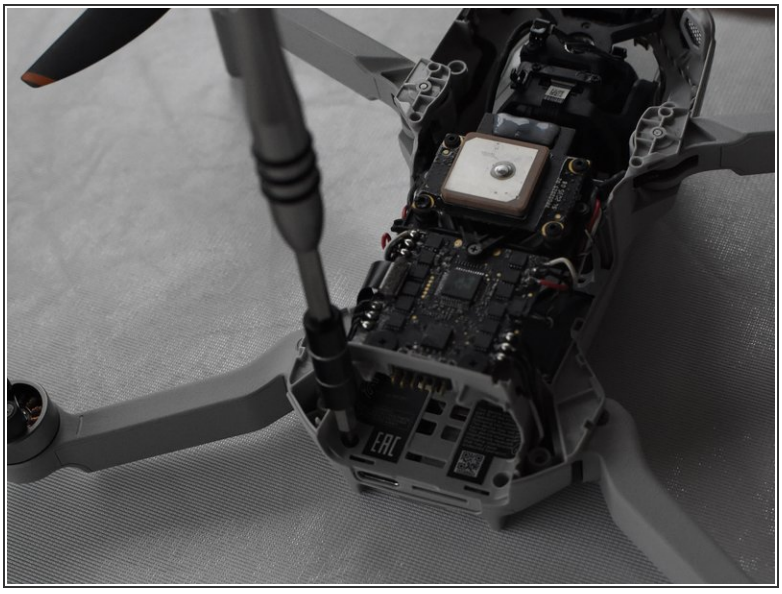
Step 5





- 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

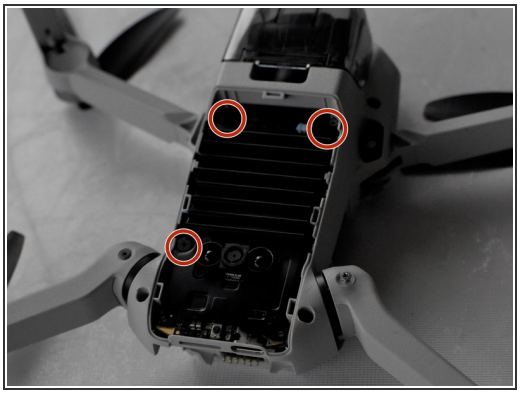



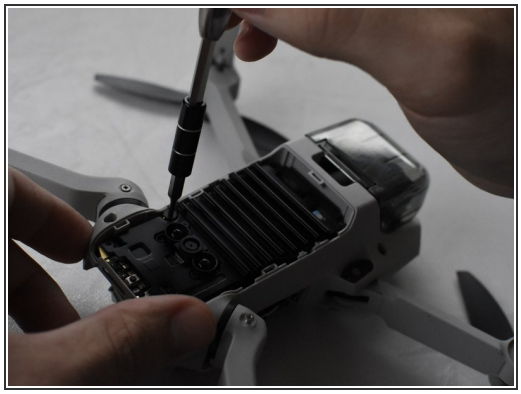
- Remove the two 5 mm J000 screws located in the battery hatch and near the ports on the back of the drone.

Step 7

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

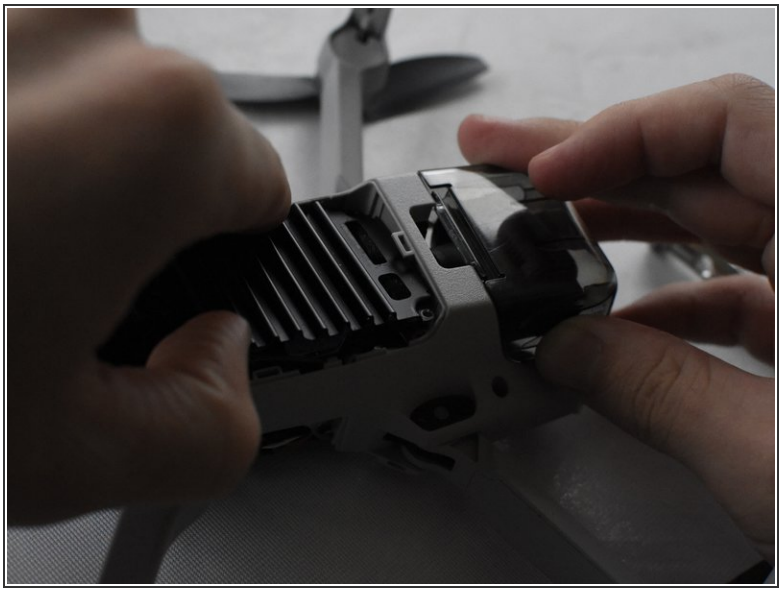
Step 8 — Drone Arms





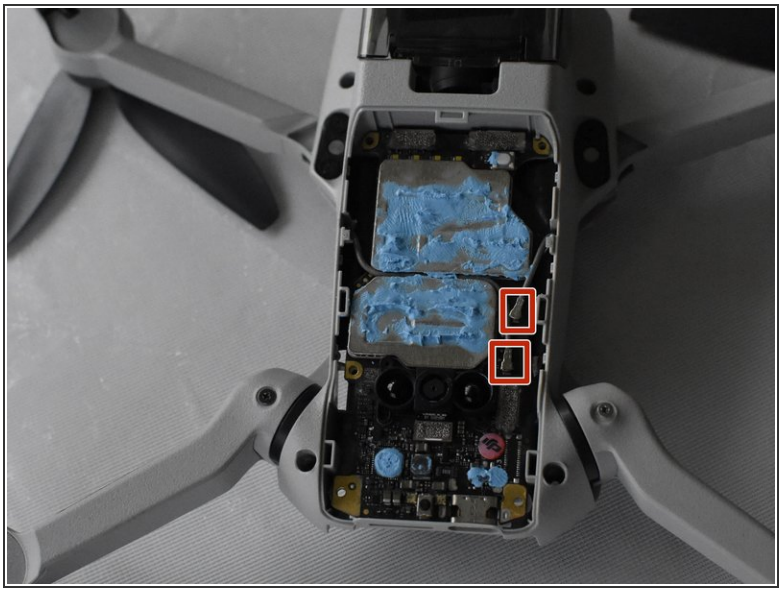
- Remove the three 3 mm J000 screws on the black plate.

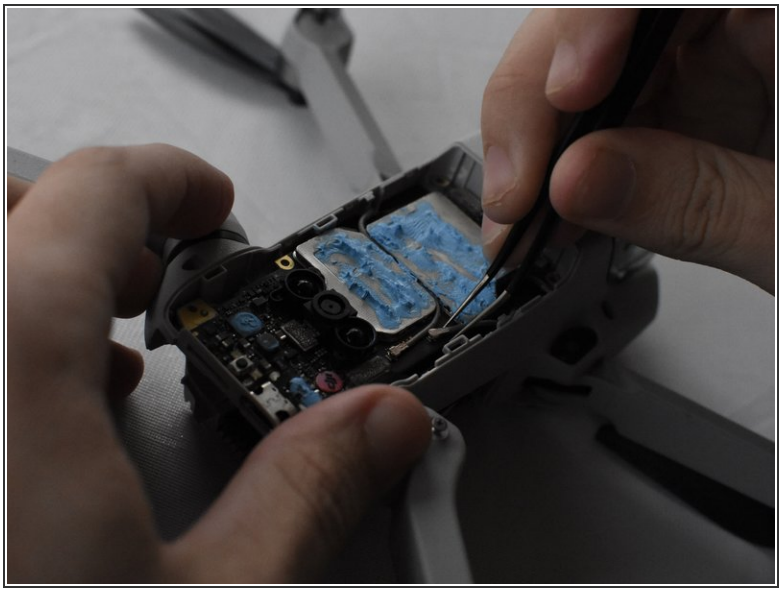
Step 9



- Use your fingers to pull the black plate off to reveal the main board under it.

Step 10





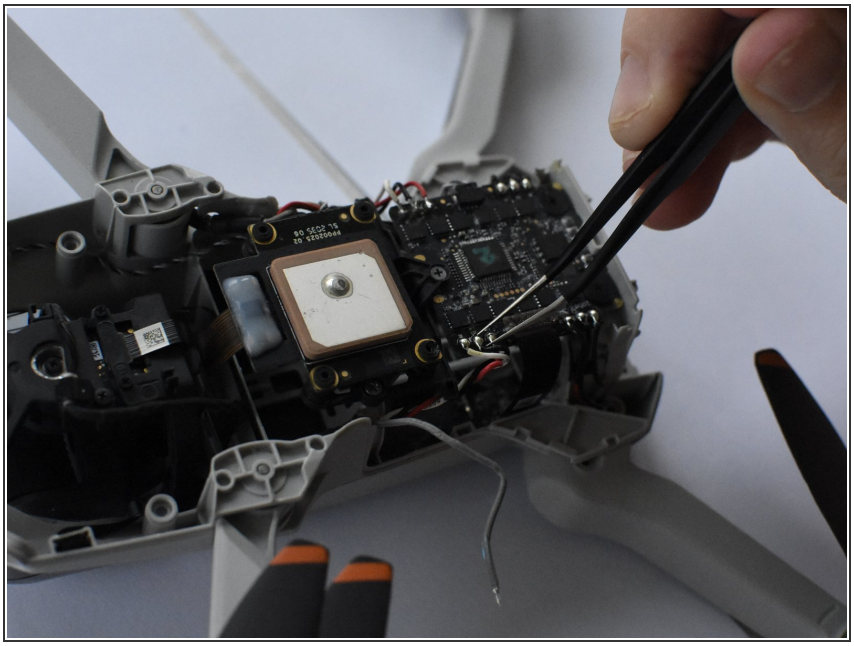
⚠ Try to avoid disturbing the blue thermal paste covering two of the large board components. If the paste is disturbed or splotchy in places it may need to be removed and reapplied. For more information refer to the How to Apply Thermal Paste guide.

- Using ESD Safe Tweezers Blunt Nose, remove the two gray coaxial cables attached to the main board.

Step 11

- Using the ESD Safe Blunt Nose Tweezers, pull the two gray wires through the drone chassis to the other side.

Step 12

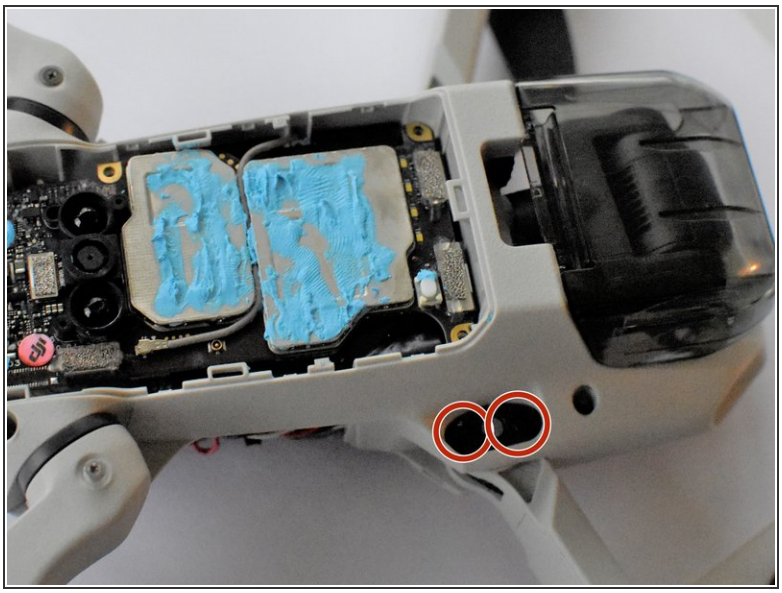


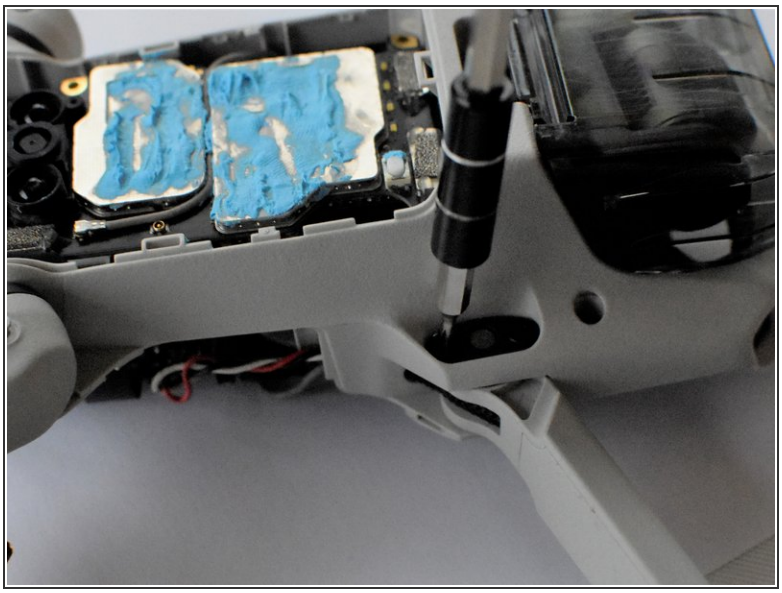
- Flip the drone over so that it is right-side up. Then, use a soldering kit to remove the black, red, and white cables from the motherboard.

ⓘ Trace the black, red, and white wires to make sure they are the wires connected to the drone arm you are replacing.

ⓘ If new to soldering, a helpful guide can be found at Soldering Skills.

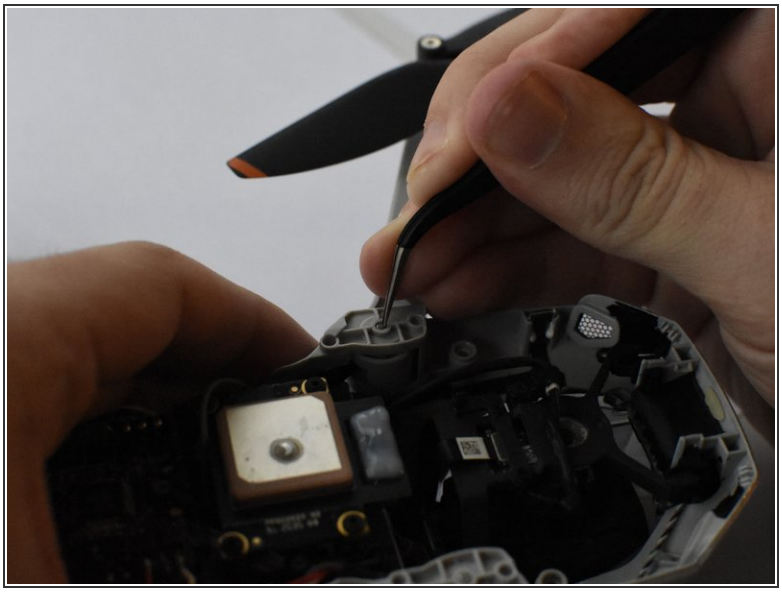
Step 13





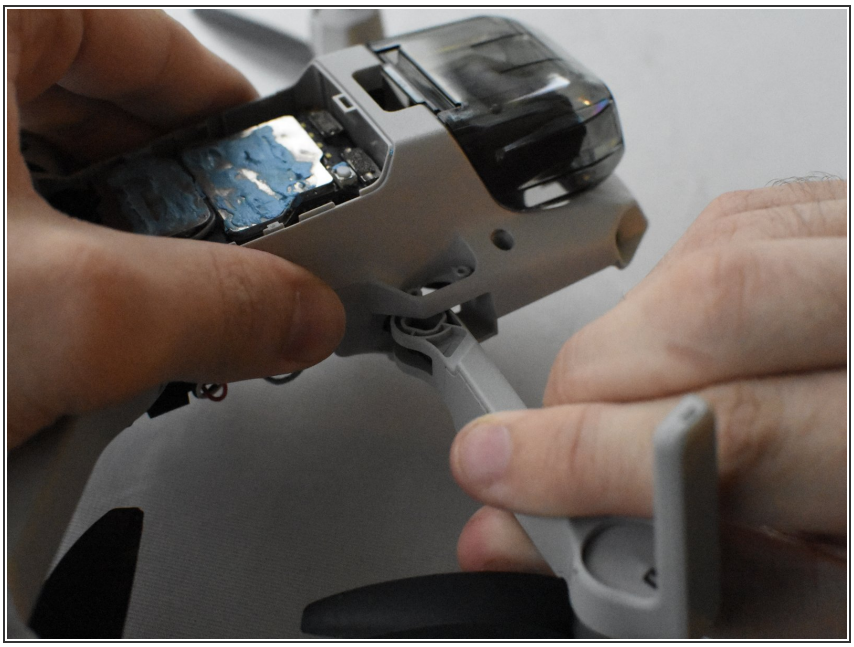
- Turn the drone back over so that it is right-side up.
- Remove the two 3.5mm J000 screws from the drone arm being replaced.

Step 14



- Flip the drone back over and use the tweezers to apply pressure to the pin of the drone arm.
- Turn the drone back over again and use the tweezers to pull out the drone arm pin.

Step 15



- With a firm grip pull out the drone arm from the drone.

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