



DJI Mavic Pro Front Arm Assembly Replacement

Replace the front arm assembly on a DJI Mavic Pro (either side)

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INTRODUCTION

I did a dumb and bonked my not-under-warranty drone into a tree branch. If you're here you probably bonked yours into something too. Hopefully this will help you get your baby airborne again!



TOOLS:

- [T6 Torx Screwdriver](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Soldering Workstation](#) (1)
- [Spudger](#) (1)
- [Metal Spudger](#) (1)
- [Tweezers](#) (1)
- [Small Needle Nose Pliers](#) (1)



PARTS:

- [DJI Mavic Pro Front Arm Assembly](#) (1)

Step 1 — Top Cover



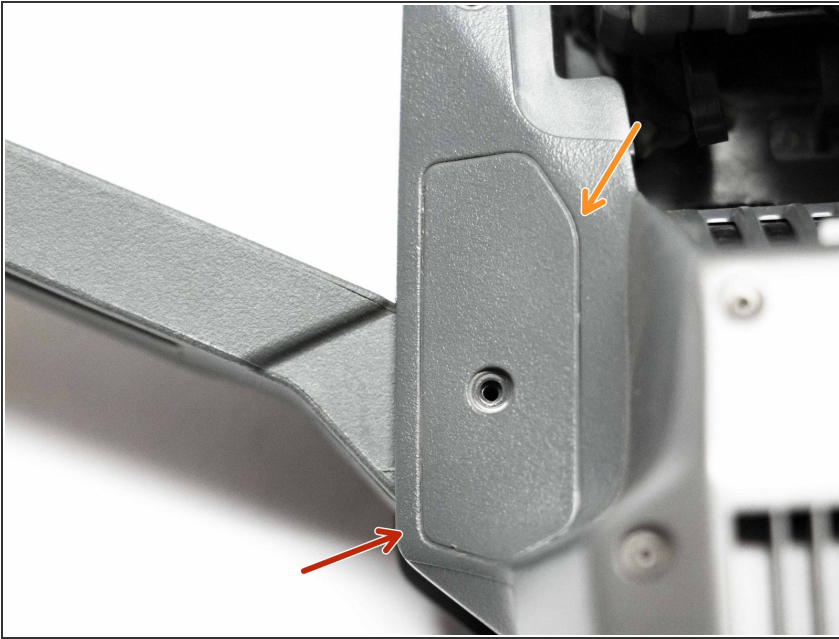
- Remove 6 hex screws from top cover

Step 2



- Remove two hex screws on either side of the gimbal
- Remove two smaller hex screws from the covers under the front arms

Step 3



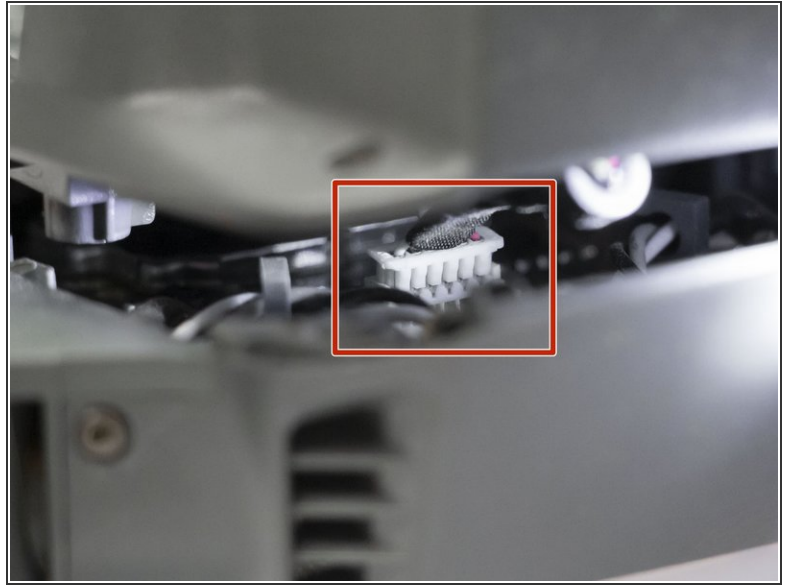
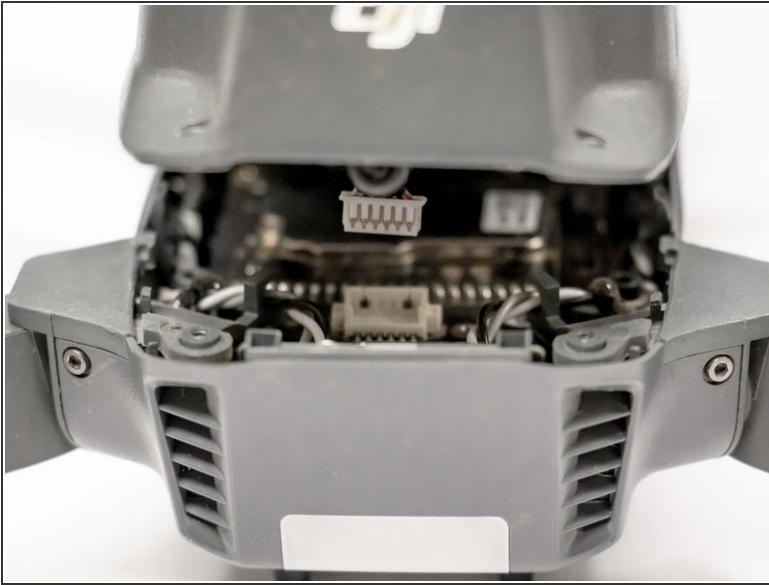
- Use the flat end of a spudger to remove the covers under the front arms
- ⓘ These covers are fitted tightly enough that it's difficult to get a pry tool underneath. I found that when I pressed my thumb against the outside corner (red arrow) I got just enough of a gap on the opposite side (orange arrow) to squeeze a pry tool into it.

Step 4



- Remove the two 1.5mm hex screws under the cover

Step 5



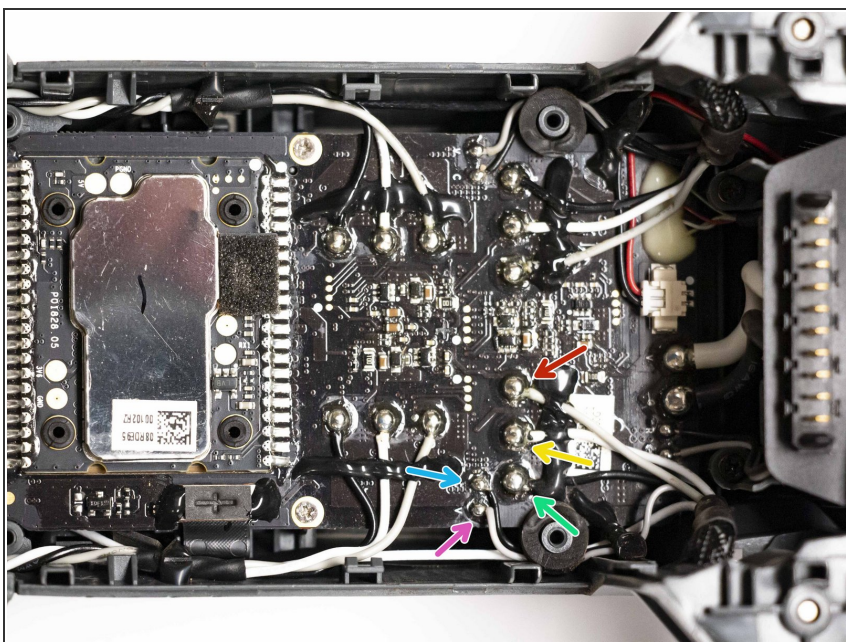
- Lift the back end of the cover

⚠ The cover is connected to the body by a cable. Don't open the cover all the way until this cable is unplugged!

- Unplug the 6-pin GPS connector, then pry along the edges to release the plastic clips holding the top down
- Remove the cover

i The clips at the nose of the drone require some extra pressure to release

Step 6 — Desolder the arm wires



- Desolder the larger gray motor wire running to the arm to be replaced
- Desolder the larger white motor wire
- Desolder the larger black motor wire
- Desolder the smaller black LED wire
- Desolder the smaller white LED wire

ⓘ The marked wires are for the right arm. The wires to desolder when replacing the left arm are the mirror image of the ones shown here.

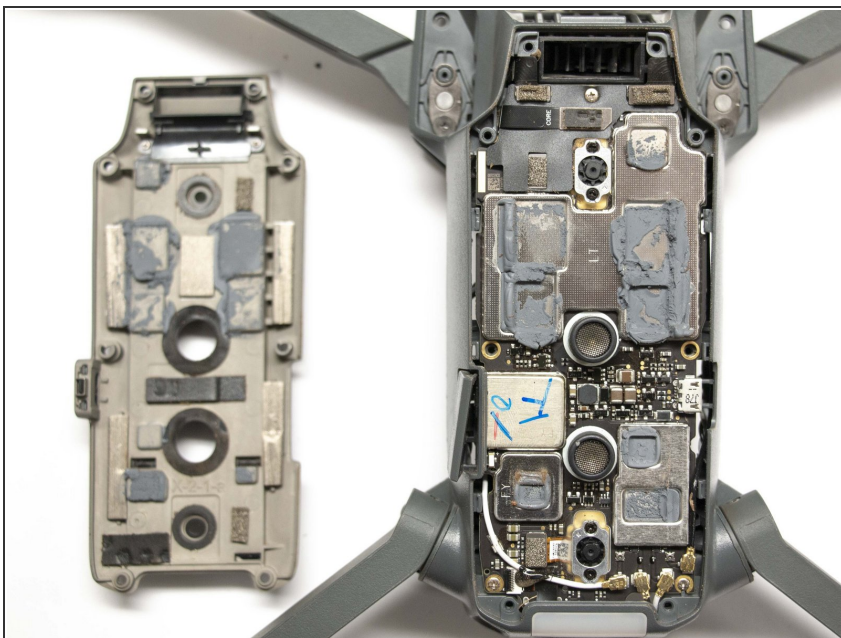
★ Don't forget that plastic has a tendency to melt when exposed to heat! I may or may not have disregarded this fact and put a mark on my drone...

Step 7 — Remove the bottom heat plate



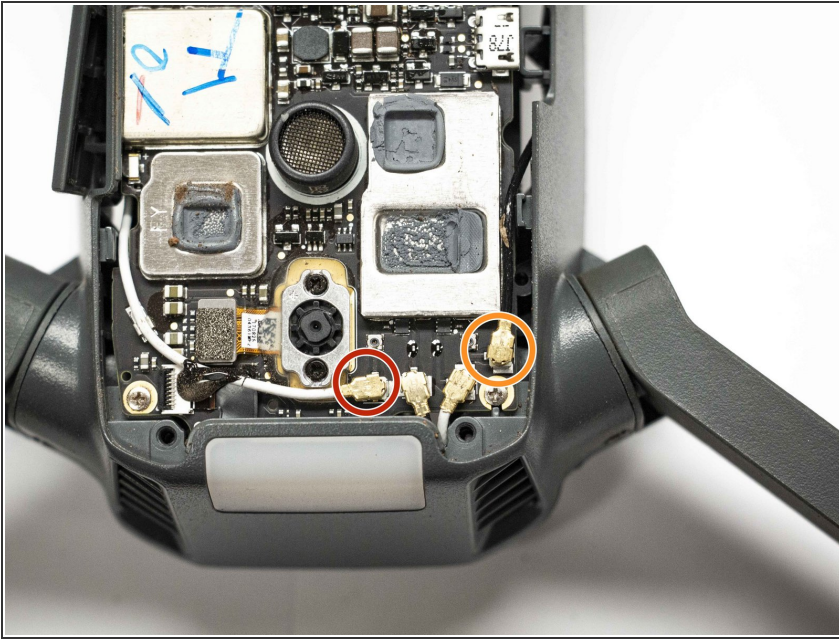
- Remove 6 hex screws
- Remove 2 hex screws with longer posts

Step 8



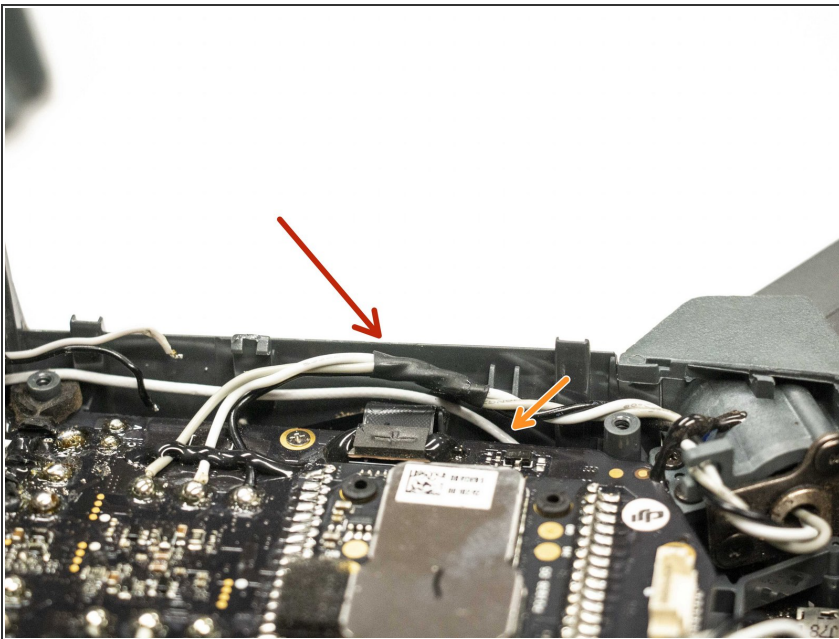
- Remove bottom heat plate
- ⓘ This plate may stick a bit due to the thermal compound underneath it. It's a good idea to replace the thermal paste during reassembly

Step 9 — Antenna cable



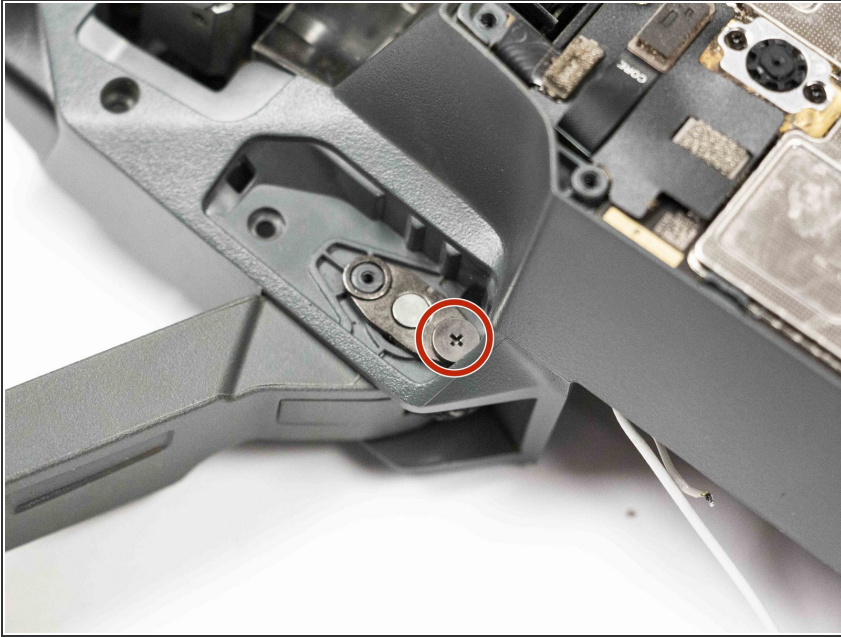
- If replacing the right front leg, unplug the white front antenna cable
- If replacing the left front leg, unplug the black front antenna cable

Step 10 — Remove front leg



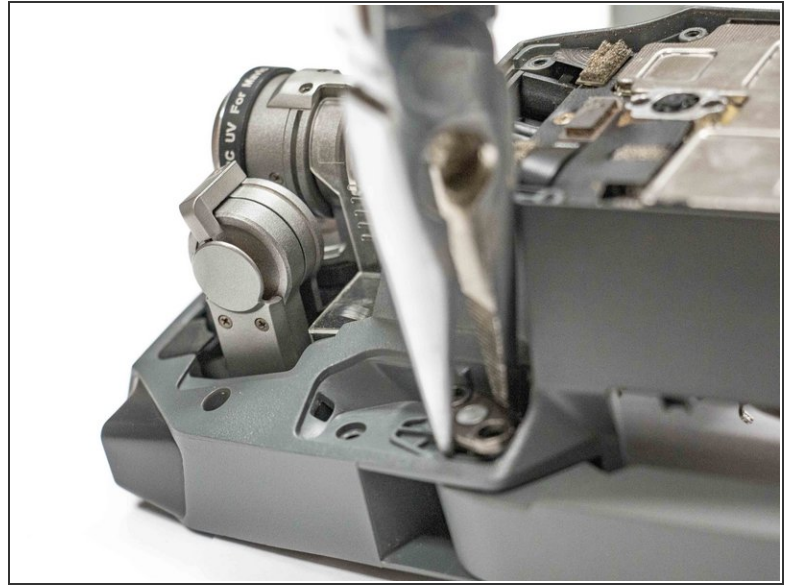
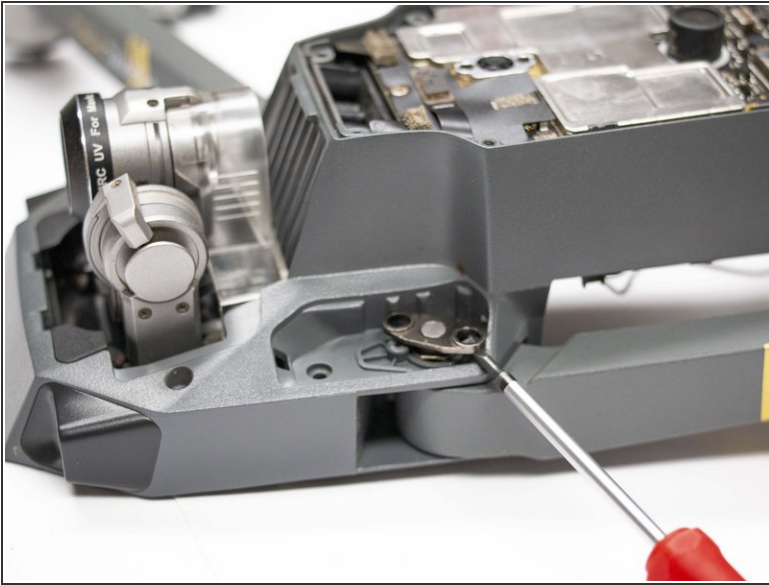
- On the top of the drone, gently release the rear leg cable bundle from its cable management clip
- Lift the white or black wire from the previous step up through the drone

Step 11



- Remove the Phillips head screw below the arm to be replaced

Step 12



- Use a metal pry tool or flat head screwdriver to lift out the spring-loaded hinge
- ⓘ The spring in this hinge makes it difficult to reseat during reassembly. The easiest way I found to replace it was to fold the arm back into the closed position, and then grab across the top of the hinge with the very tip of a pair of needle nose pliers, using the pliers to rotate the hinge into position and press it down into place.

Step 13



- Remove the arm

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