



Parrot AR.Drone 2.0 Central Cross Replacement

How to replace a damaged central cross frame.

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INTRODUCTION

This video shows how to replace a damaged central cross. Music is the only audio. The tools are not specified.

AR.Drone 2.0 spare parts and mounting tools are available from [several Parrot retailers](#).

[video: <http://youtu.be/Tz0qol24l1k>]

TOOLS:

- Heavy-Duty Spudger (1)
- T6 Torx Screwdriver (1)
- Phillips #0 Screwdriver (1)
- X-ACTO Knife (1)

PARTS:

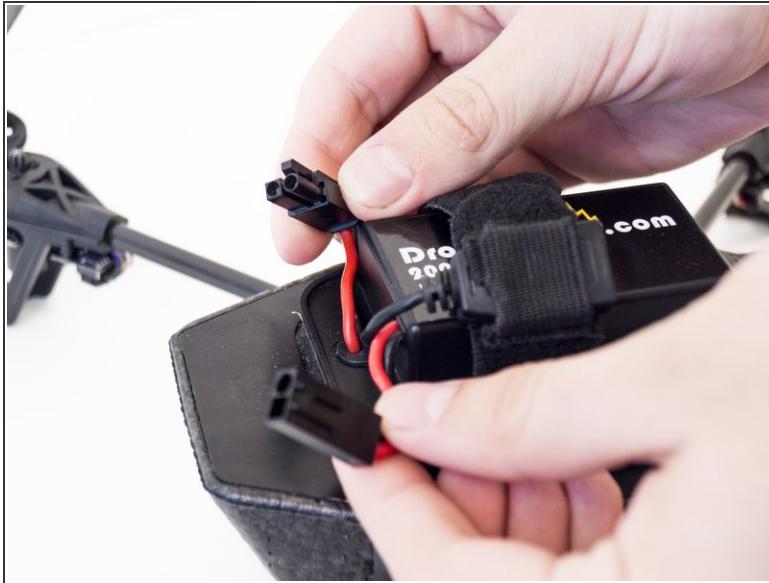
- Parrot AR Drone 2.0 Central cross (1)

Step 1 — Mainboard and Navigation Board



- Remove the foam body.

Step 2



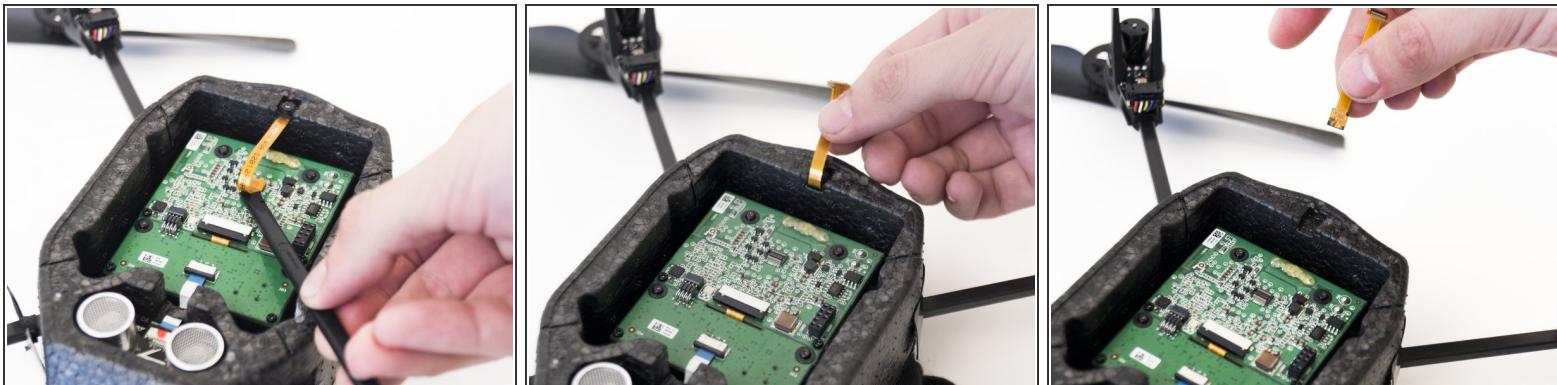
- Disconnect the battery by pulling the two red wires apart.
- Remove the battery by releasing the battery retaining straps.

Step 3



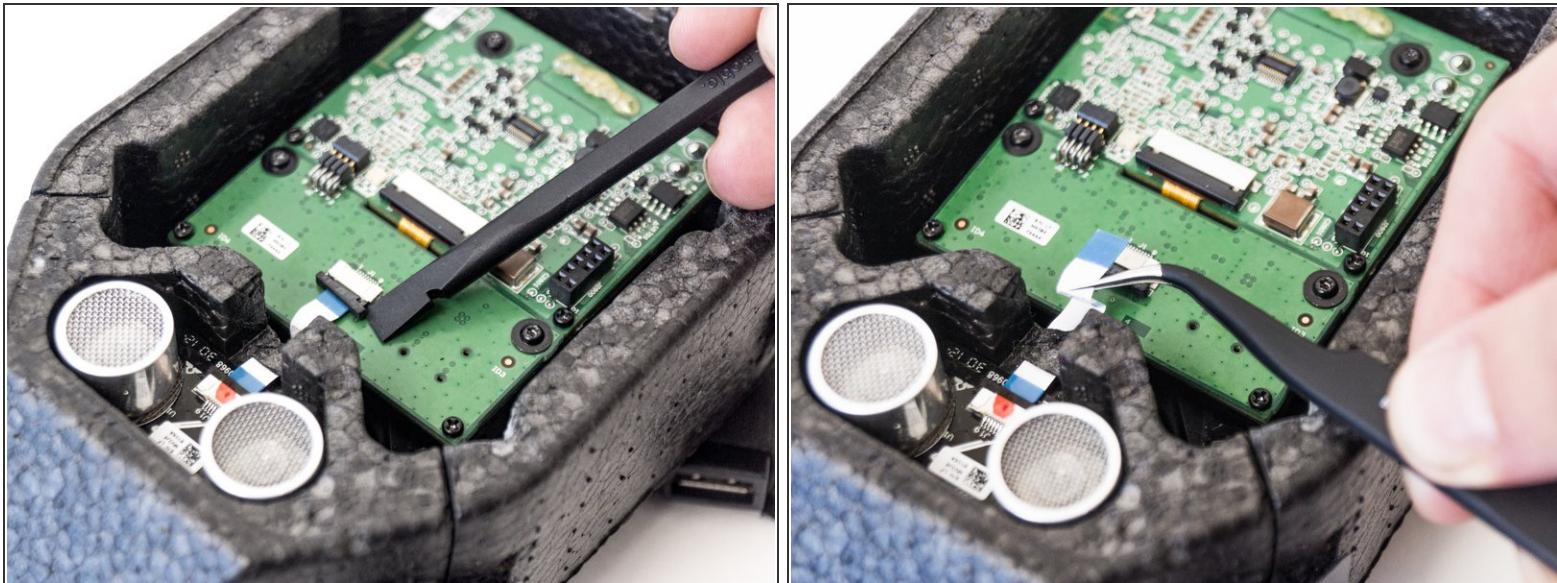
- Turn the drone upside down.
- The cover is held on by plastic tape. Peel off the tape and use a spudger to remove the back cover.

Step 4



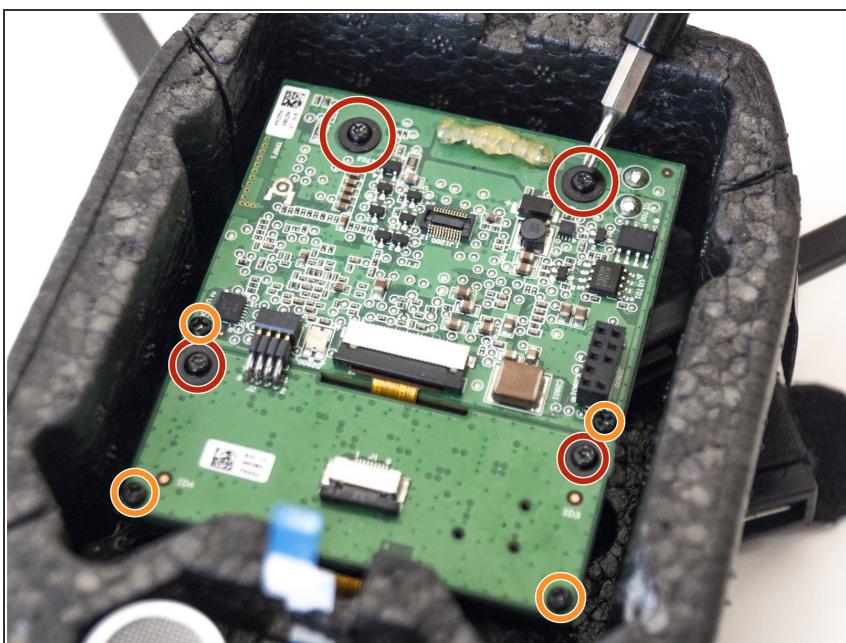
- Using a spudger, separate the connector for the downward camera.
- Remove the camera from the body by pulling it off the foam body.

Step 5



- Use a spudger to release the black retaining clip. Then disconnect the connector to the sensors.
- Use tweezers to carefully remove the ribbon from the connector.

Step 6



- Remove the four 8mm torx screws with a T6 bit.
- Remove the four 8mm philips head screws with a PH00 bit.

Step 7



- Carefully pull the secondary board from the mainboard.

Step 8



- Turn the drone right side up
- Remove the USB connector from the battery retaining straps.

Step 9



- Release the rubber clip holding the USB and battery power cable to the body.

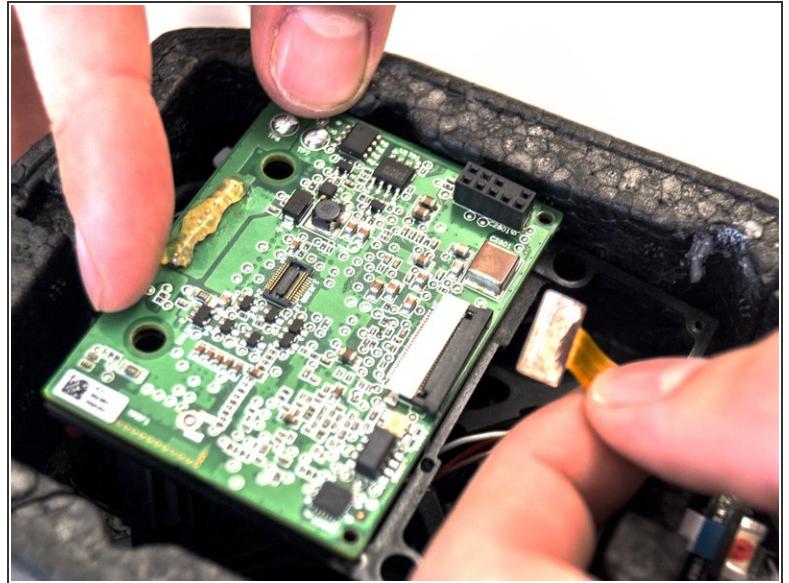
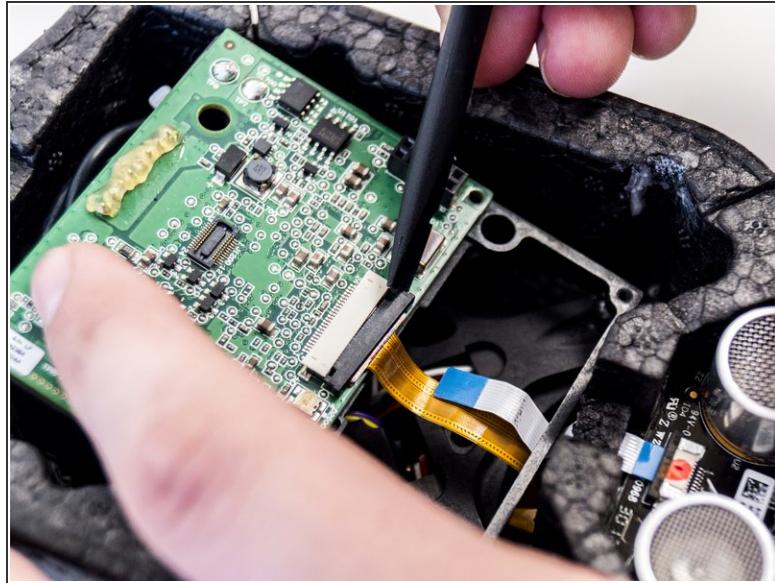
Step 10



 Avoid using sharp tools near the battery.

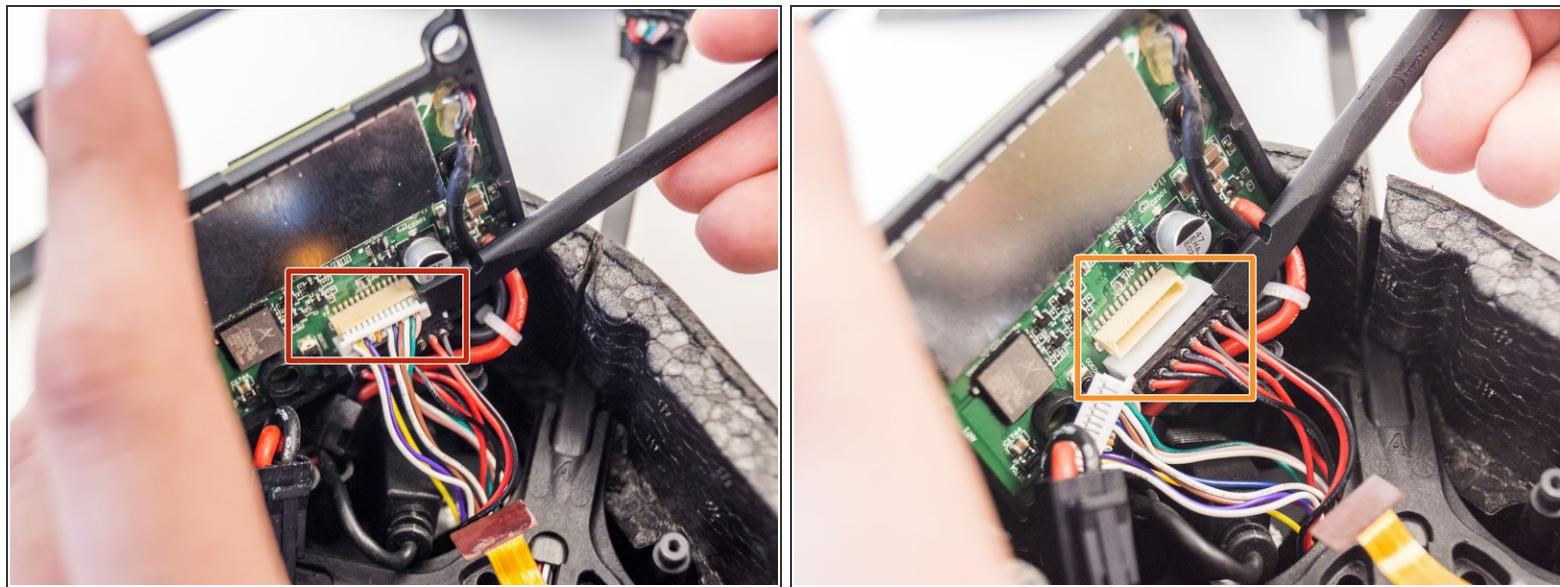
- Push the USB and power cable through the battery panel.

Step 11



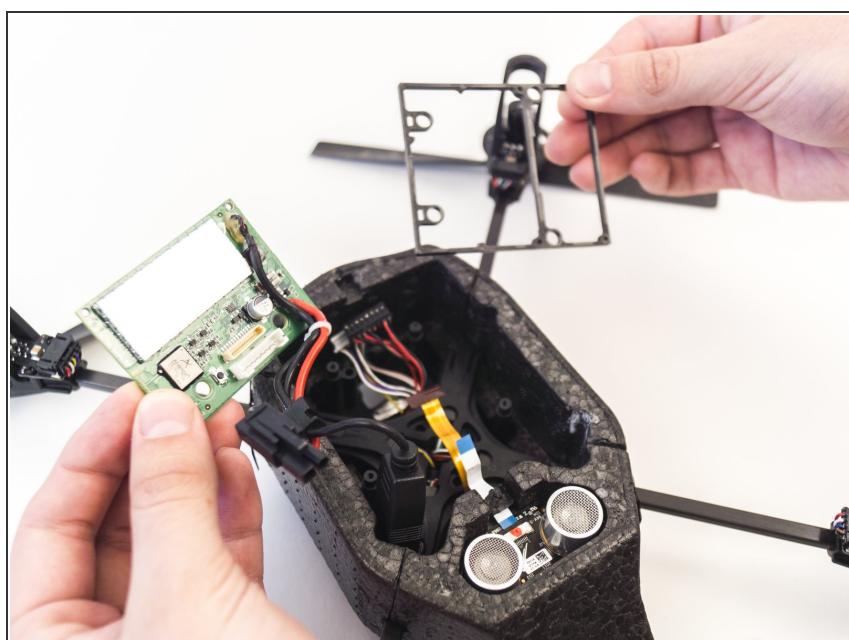
- Turn the drone upside down again.
- Use a spudger to release the connector and carefully remove the ribbon.

Step 12



- Lift the mainboard up so that you can access the back.
- Disconnect the first connector with the white wires using a nylon spudger.
- Disconnect the second connector with the red and black wires using a spudger.

Step 13



- The mainboard is now fully detached and can be removed.

Step 14 — Central Cross



- Using a nylon spudger, peel off the four pieces of plastic securing the frame to the body.

Step 15



- Carefully maneuver the four arms of the drone's central cross until it detaches from the body by pulling apart the foam surrounding the arms.

Step 16



- The central cross can now be removed and replaced.

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