Ring Video Doorbell Pro Battery Replacement

This guide shows how to replace the battery in a Ring Video Doorbell Pro.

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INTRODUCTION

Countless Ring Video doorbell Pros have died completely as a result of a faulty battery. The symptoms of this is a completely dead unit that will not respond to power at all or a unit that reboots unexpectedly. Unfortunately, Ring doesn't sell the replacement battery and It cannot be found anywhere on the internet, so a generic 3.7v 200mah battery will have to be fitted. This guide will show you how to take the unit apart and replace the battery.

TOOLS:

- Small Phillips Head Screwdriver (1)
- Soldering Iron (1)
- Small Plastic Spudger (1)
- spray adhesive (1)

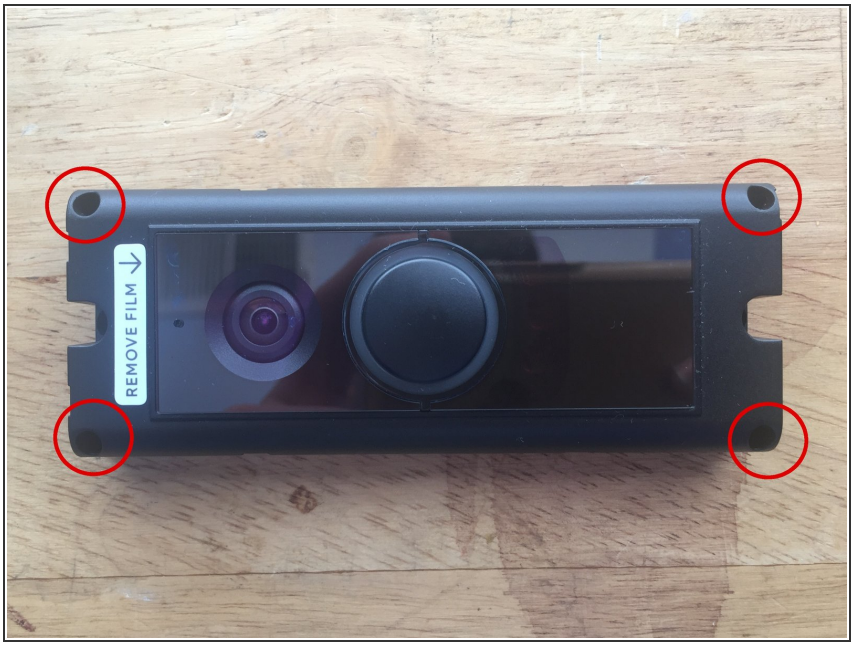
PARTS:

- 3.7v, 200mah Battery (1)

Step 1 — Battery

- First, disconnect and remove the doorbell from the house. Make sure the breaker for the doorbell is switched off at the electrical panel.
- Make sure the face-plate is removed since the screws holding the unit together are underneath it.

Step 2

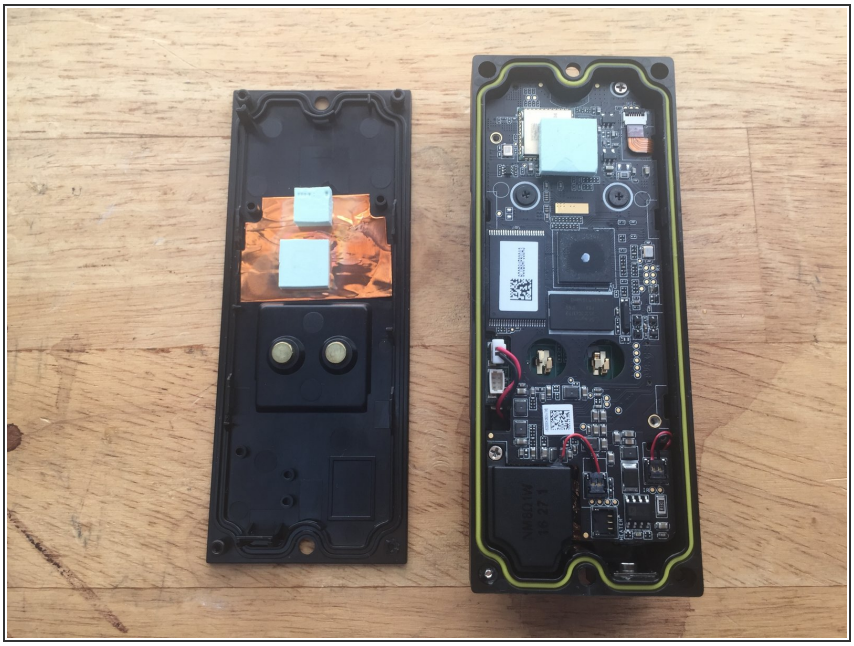


- After the face-plate has been removed, use a small phillips screwdriver to remove the screws from the four corners of the device.
- Let the screws fall out by gently turning the unit over. Don't lose the screws!

Step 3

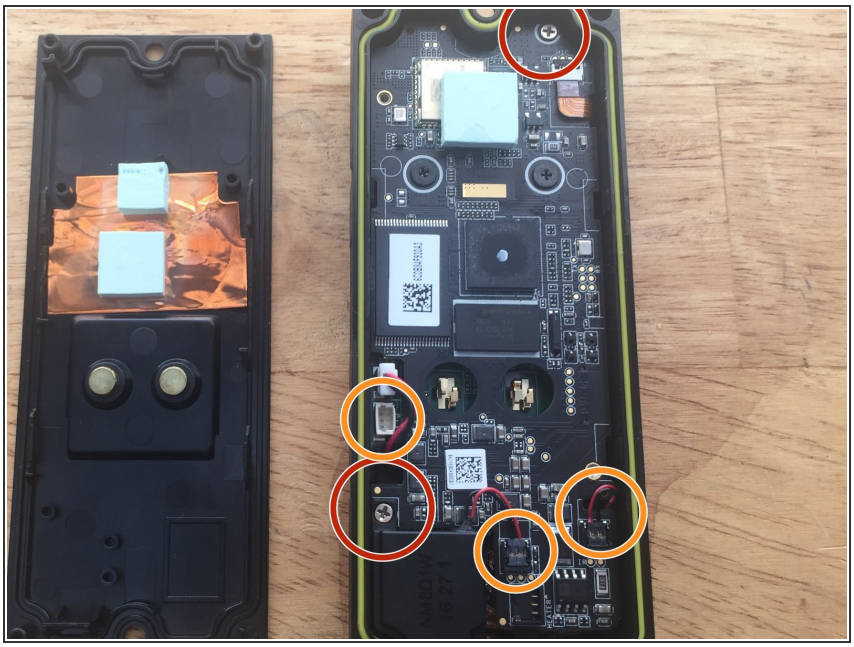
- After the screws have been removed, carefully remove the back of the unit by using a soft, plastic spudger.
- It may take some force to remove the back due to the plastic snaps holding it on, but take care not to apply too much pressure.

Step 4



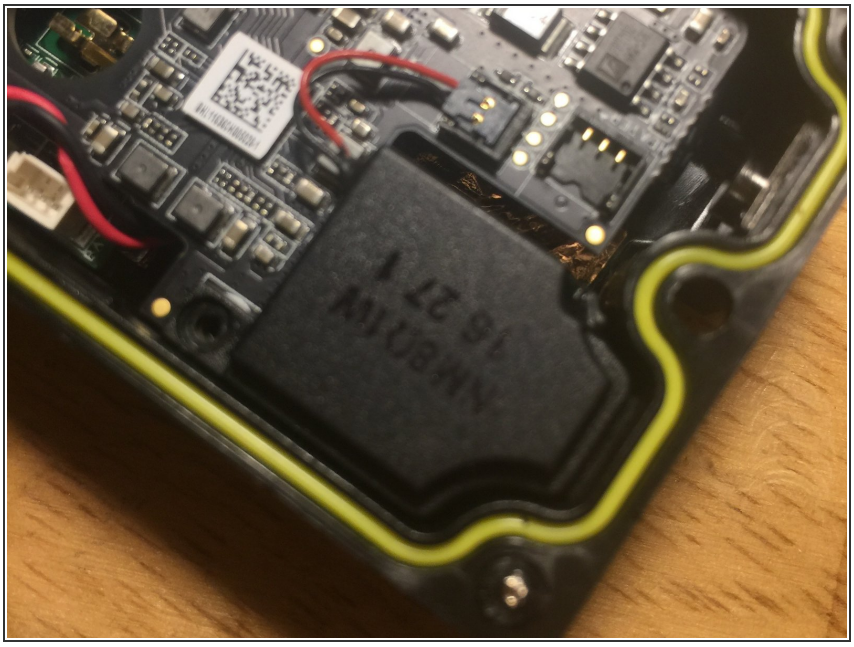
- After the back has been removed, you should now be able to see the inside of the unit.

Step 5



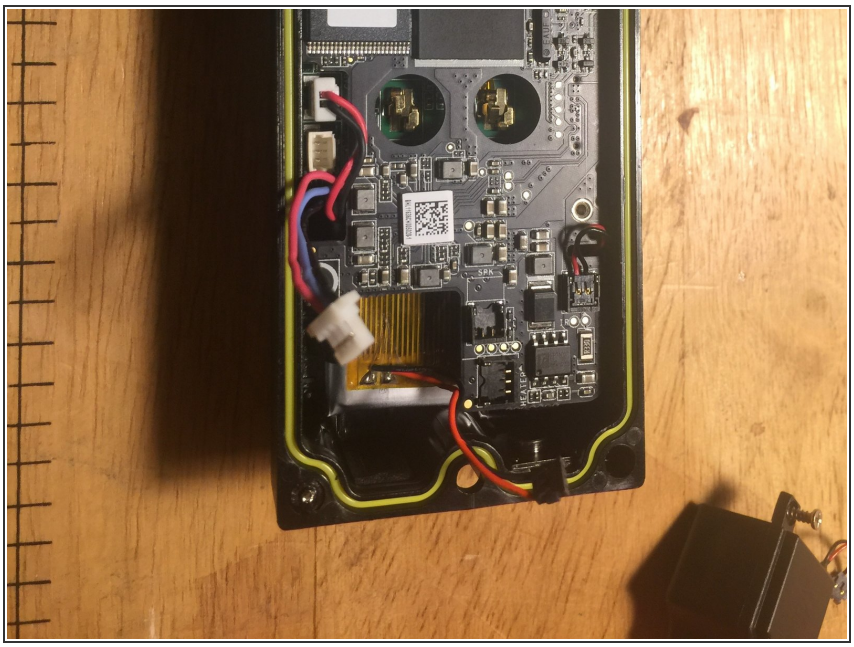
- Next, remove the two silver screws holding the motherboard in place (see red circles)
- Also, disconnect the battery, IR, and antenna connections (see orange circles) The battery is already disconnected in this photo.
- Be VERY careful when removing the small connectors. They will shatter if not handled properly. Use a small plastic spudger, and gently pry up from underneath the connector. Work your way under the connector gently.

Step 6



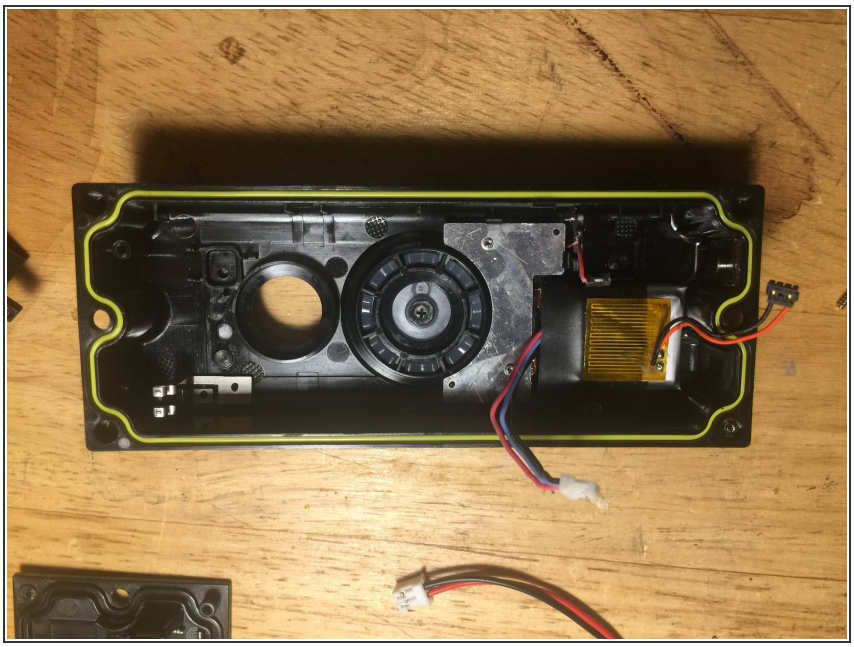
- After disconnection, seperate the speaker from the unit by tilting the unit over and letting it fall out. You can also apply gentle force using a plastic spudger if necessary.

Step 7



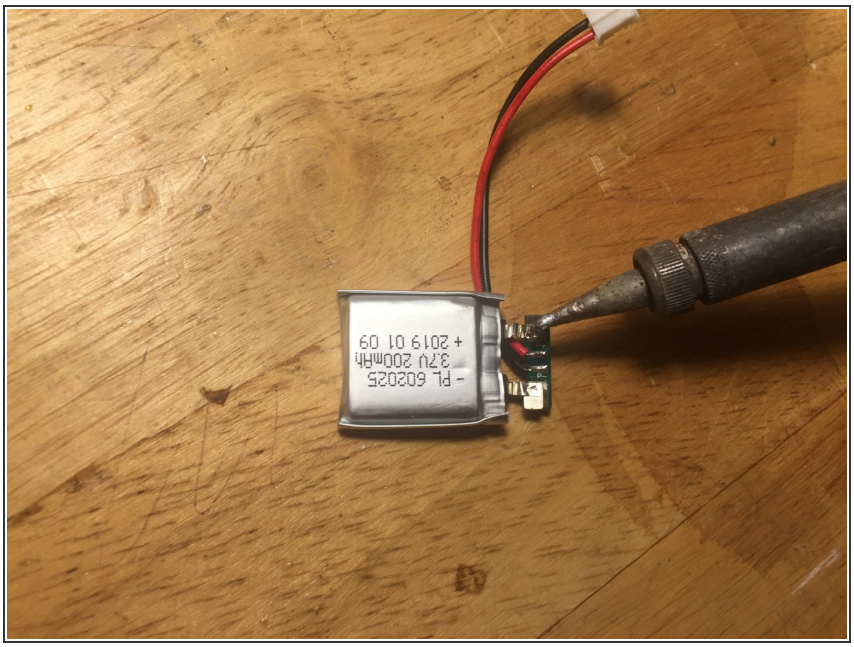
- After the speaker has been removed, you should now be able to see the battery underneath.
- The next step is to remove the motherboard from the casing. To do this, first make sure the necessary connectors have been disconnected and the two silver screws have also been removed as mentioned in step 5.
- Apply gentle pressure to the edges of the motherboard and gently pry it loose from the casing. You should feel a small amount of resistance as there is a small bit of adhesive present holding the motherboard in place.

Step 8



- The motherboard is now removed. You should now be able to clearly see the battery sitting in the bottom of the case.
- Remove the battery by applying gentle to moderate force to pry it away from the casing. There is some adhesive holding it in place.
- There is a small strip of metal tape underneath the battery. Try to keep this tape in tact.

Step 9

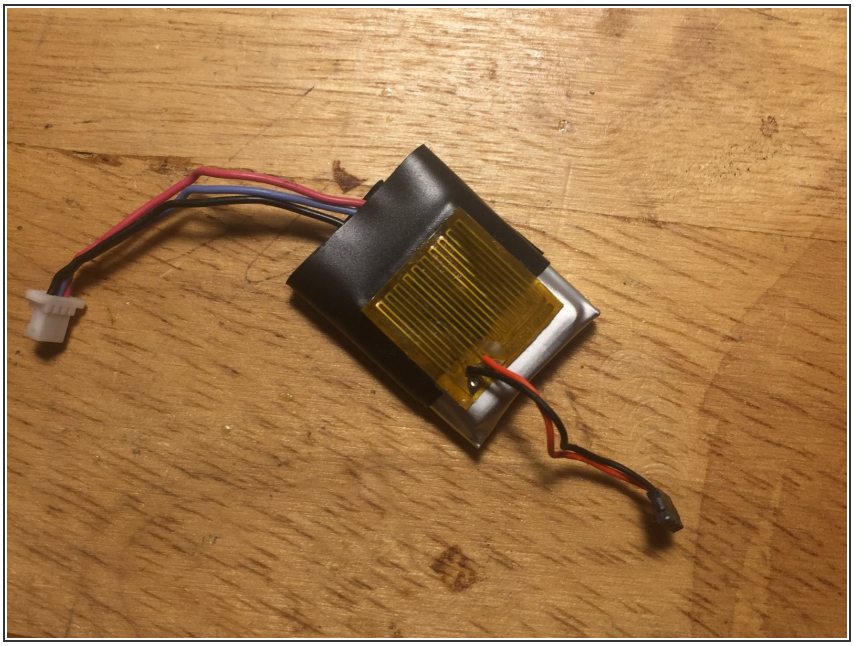


- After the battery has been removed, the clear tape on the old battery needs to be removed. Do this by carefully unwrapping the clear yellow tape from the battery. Any excessive force will damage the battery.
- Next, de-solder the old battery circuit from the old battery. You will need this circuit, so be careful not to damage it!
- **If you heat up the battery too hot, it will explode! You must be quick when de-soldering and soldering to the battery!**
- De-solder the battery circuit that comes with the new cell, and solder the battery circuit from the old ring battery to the new battery. This will convert your new cell to a cell compatible with the Ring's charging circuitry.
- Make sure to observe polarities. The solder pad with the red wire next to it goes to the '+'poll on the battery, and the solder pad with the black wire next to it goes to the '-' poll on the battery.

Step 10

- After the necessary soldering has been done, carefully fold the battery circuit to where it is tucked into the battery.

Step 11



- After this, cover up the battery circuitry with some electrical tape, this will prevent shorts.
- Remove the antenna pad from the old battery, and attach it to the new battery with some spray adhesive.

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