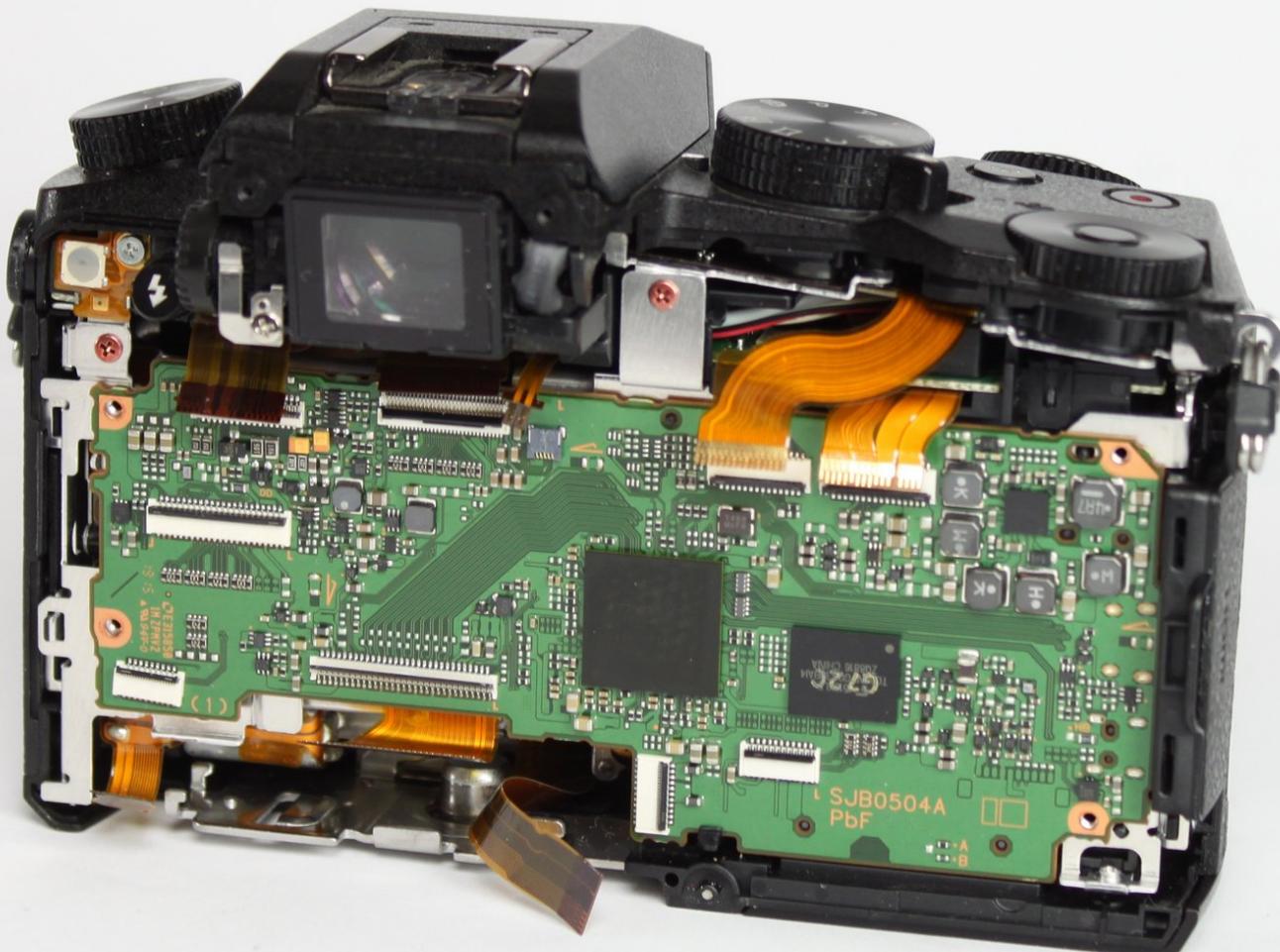




Panasonic Lumix DMC-G7 Mainboard Replacement

This guide shows how to remove and replace the main printed circuit board in a Panasonic Lumix DMC-G7.

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INTRODUCTION

If the camera does not boot despite the battery being hail and hardy, there could be a fault on the main printed circuit board. Use the following guide to replace the main printed circuit board.

TOOLS:

- [Phillips #0 Screwdriver \(1\)](#)
- [iFixit Opening Picks set of 6 \(1\)](#)
- [iFixit Opening Tools \(1\)](#)

Step 1 — Mainboard



- Unlock and open the battery compartment on the bottom of the camera.
- Remove both the battery and SD card.

Step 2



- Remove the four indicated 3.0mm long black screws from the bottom of the camera and the viewfinder housing using a PH0 Phillips screwdriver.
- There are four screws on the bottom of the camera. Only remove the two nearest to the screen.

Step 3



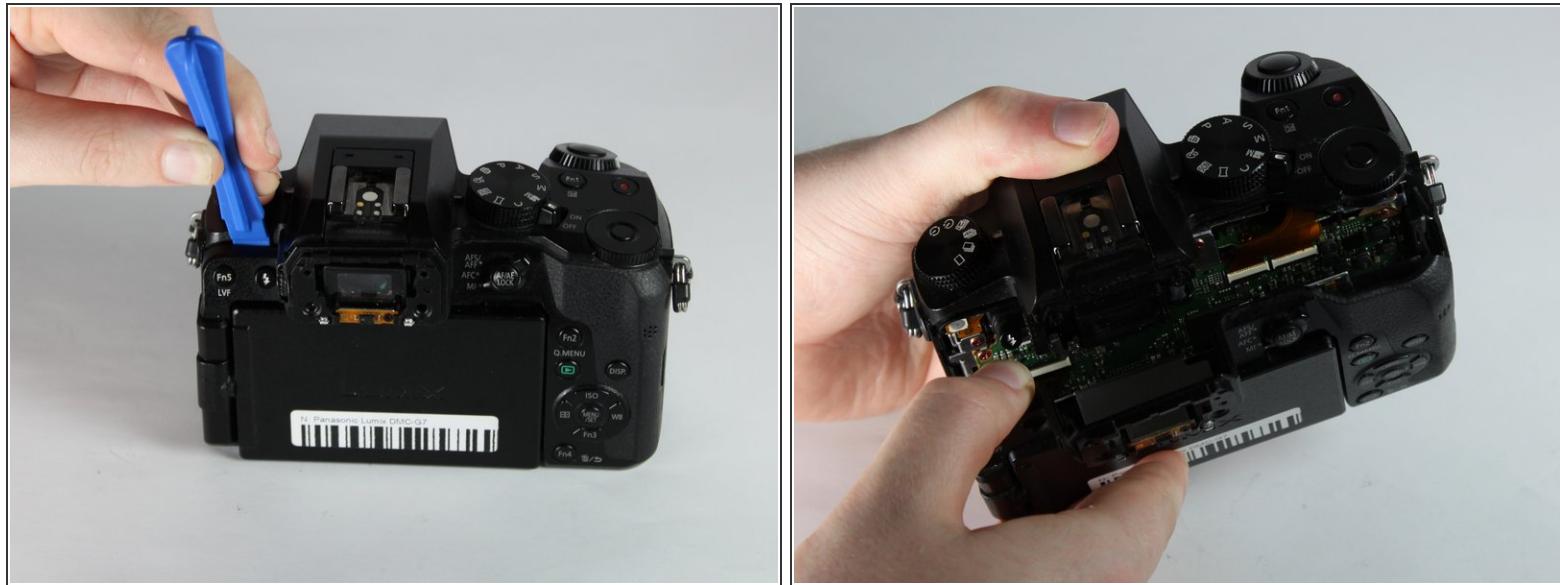
- Remove the four indicated 6.0mm long black screws using a PH0 Phillips screwdriver.
- *(i)* Three of the screws are located on the sides of the chassis and one is directly underneath the battery compartment lid.

Step 4



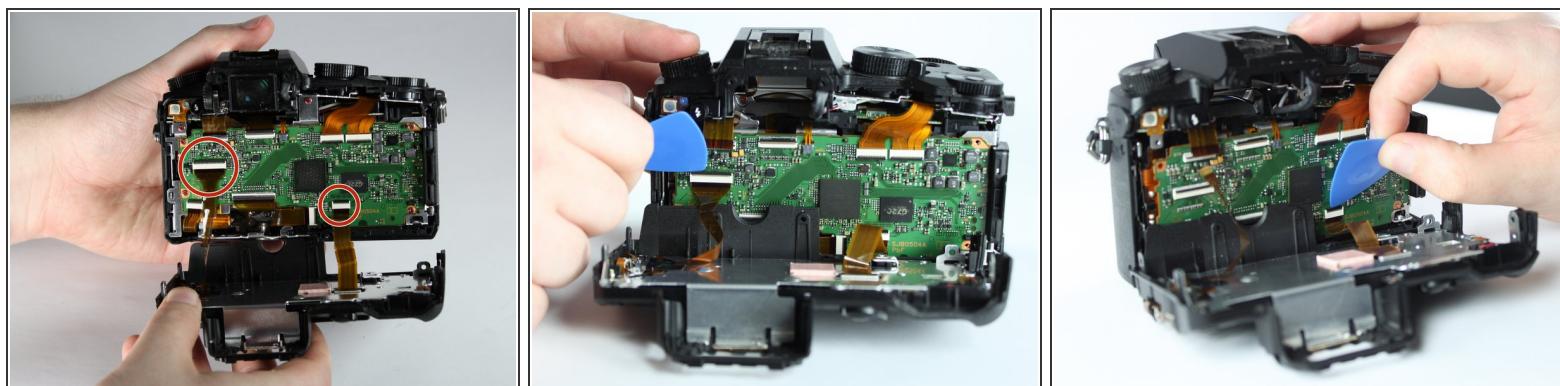
- Remove the viewfinder eye cup by pulling up and out from the bottom to separate the locking clips from the camera.
- ⚠ Do not flex the eye cup too aggressively as it may lose its shape.
- Remove the two indicated silver 3.5mm long screws adjacent to the viewfinder screen using a PH0 Phillips screwdriver.

Step 5



- Use an iFixit opening tool (or similarly long and thin object) to insert into the gap between the two camera halves and pry the camera apart from the top.

Step 6

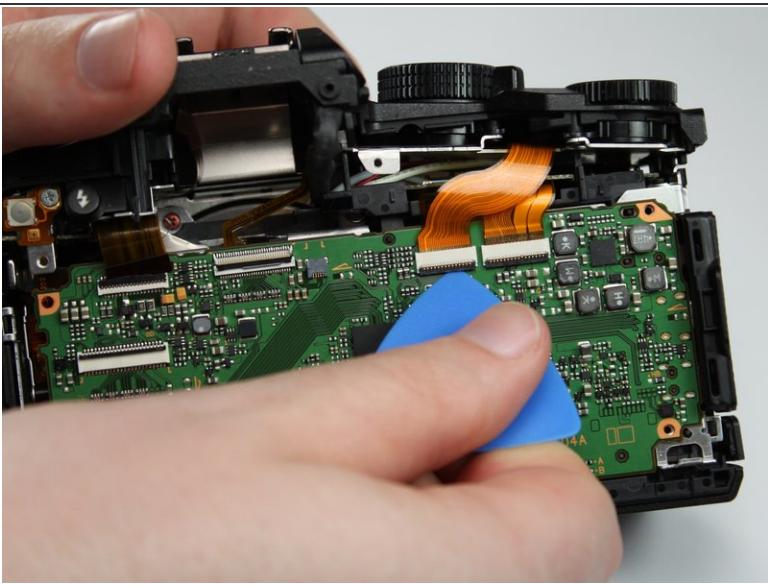
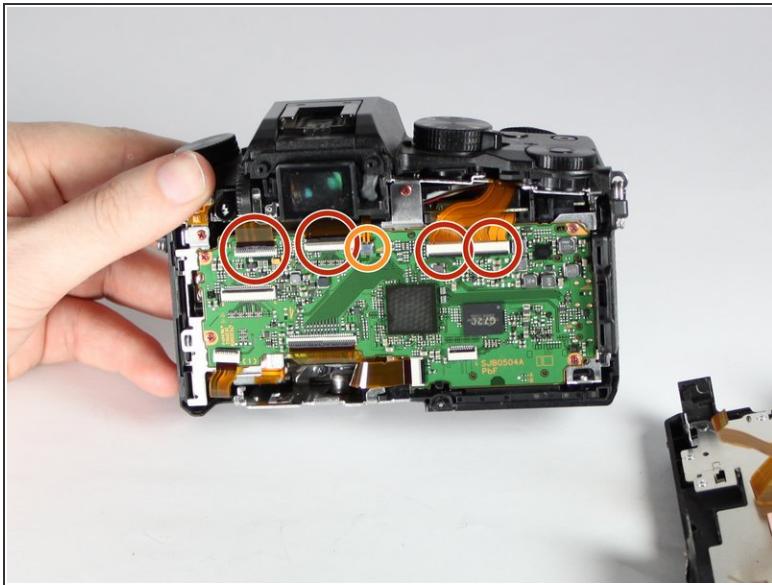


- Remove the two indicated ribbon cables before separating the two halves of the camera.
- Using a flat object, pry open the black tabs above the ribbon cable connectors by gently pulling away from the motherboard.

(i) An opening pick is recommended, but any equally small and flat object will work.

⚠ Ribbon cables are fragile, so put as little stress on them as possible.

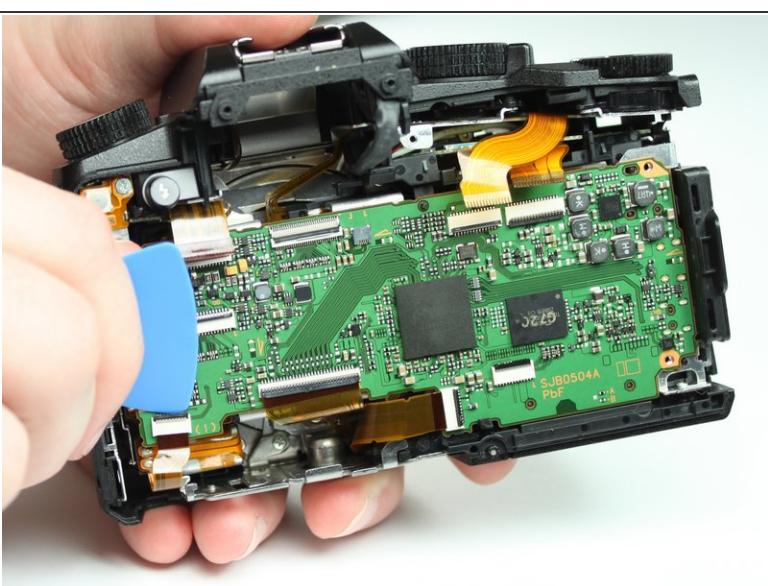
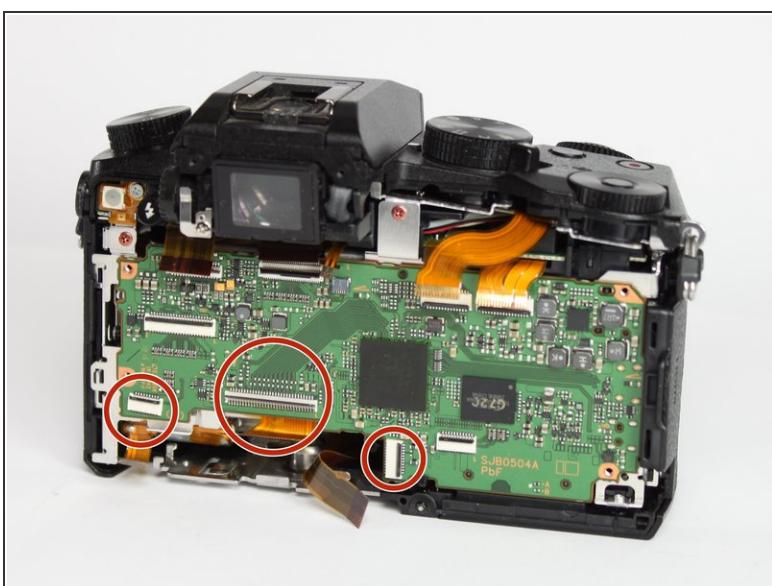
Step 7



- Remove the 4 indicated flex cables from top of mainboard
- Remove the indicated small flex cable from top of mainboard.

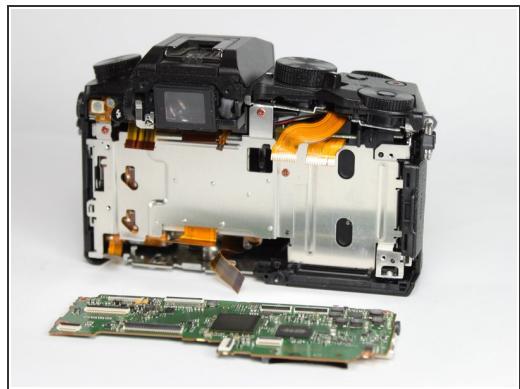
(i) The small flex cable does not have a lock: simply pull to disconnect it.

Step 8



- Remove the 3 indicated flex cables from the bottom of the mainboard.

Step 9



- Remove the 4 indicated red 3.0mm long screws from the corners of mainboard using a Phillips PH0 screwdriver.
- With the eyepiece facing away from you, pull up on the main PCB from the left side and then pull it away from the chassis.
- There is a plastic locking tab on the bottom of the camera that holds the mainboard PCB.

(i) A replacement mainboard can be purchased from AliExpress [here](#)

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