



# Canon PowerShot G9 SD-Card Slot Write Lock

Disassemble Canon PowerShot G9 to fix SD-card write lock problem

Written By: Thomas Widmaier



## INTRODUCTION

If the Canon PowerShot G9 displays a card error "write locked", it could be simply the switch in the SD-card slot not working.

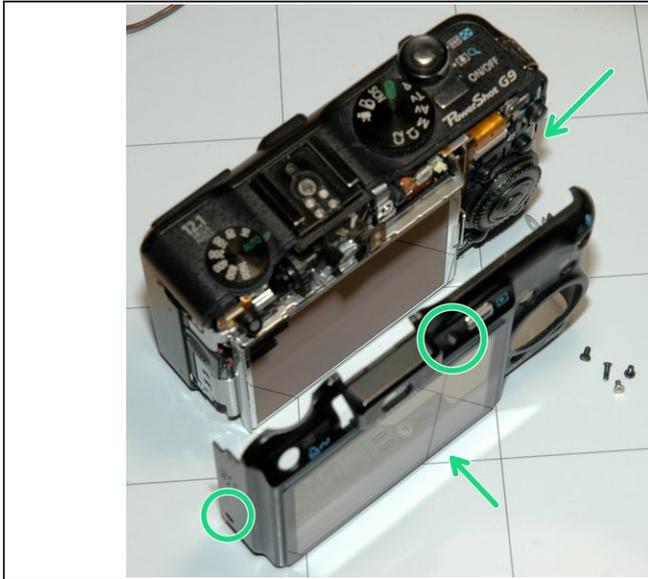
- Good eyesight and a steady hand is necessary to complete this.
- Be especially careful not to rupture any of the flex cables.
- Work slowly
- Keep the screws sorted, they have different sizes



### TOOLS:

- [Phillips #0 Screwdriver](#) (1)
  - [Tweezers](#) (1)
  - [Head Magnifier](#) (1)
  - [Soldering Iron](#) (1)
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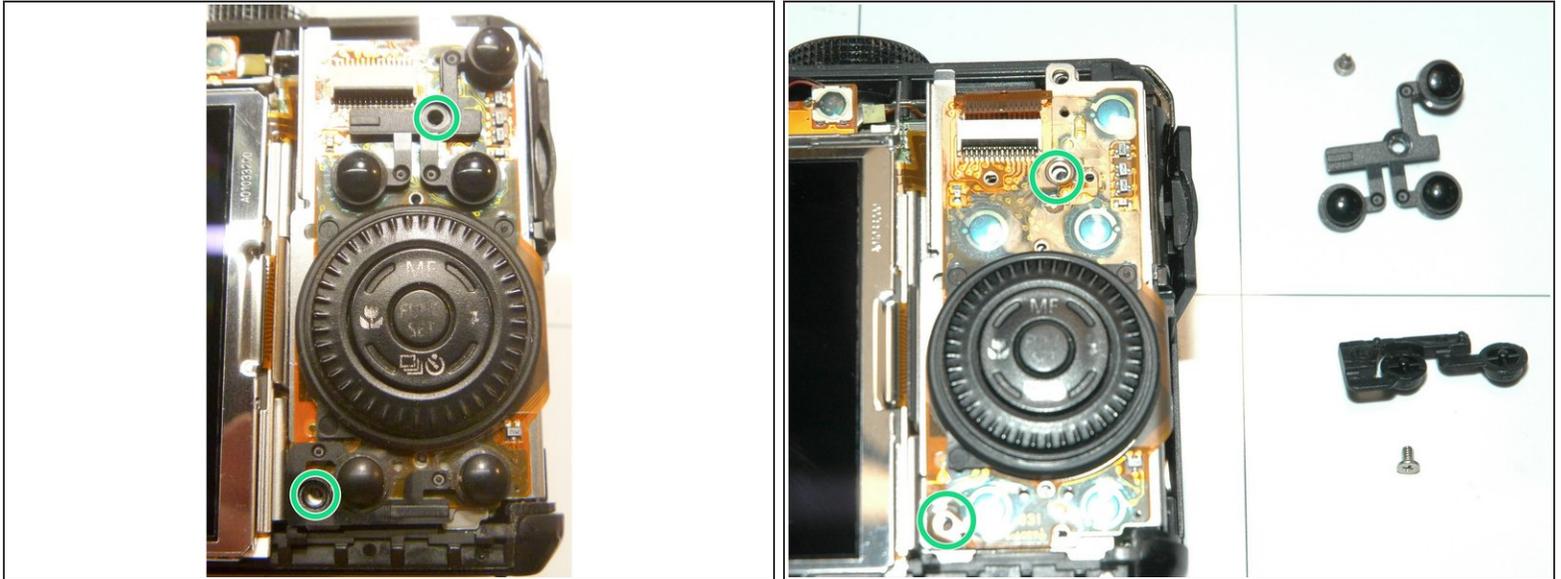
## Step 1 — Open rear cover of camera



 Be very careful not to touch any charged flash capacitor.

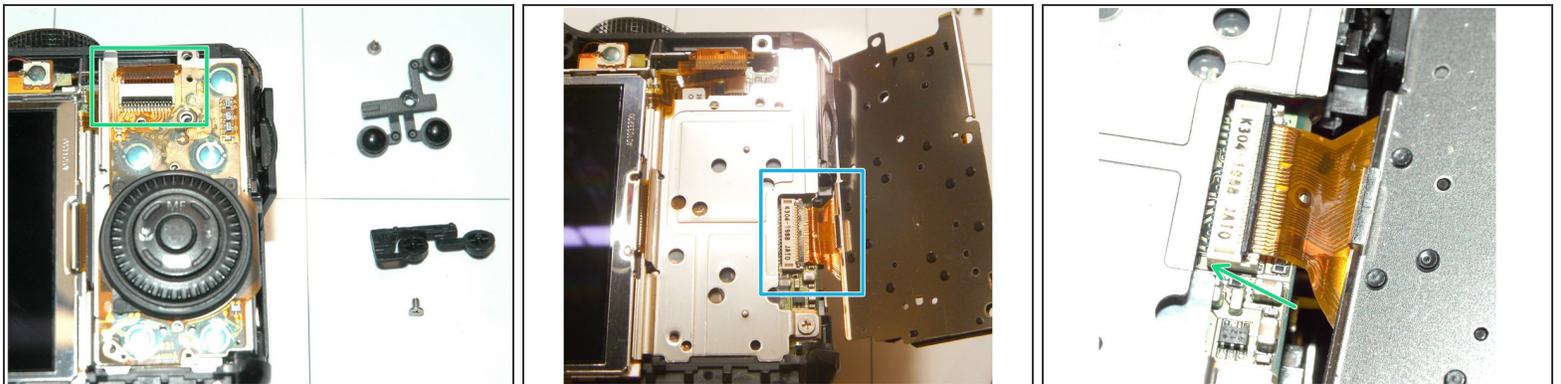
- Remove screws as marked. 2 for strap holder, 5 for back cover
- Remove Back cover and strap holder

## Step 2 — Remove Buttons



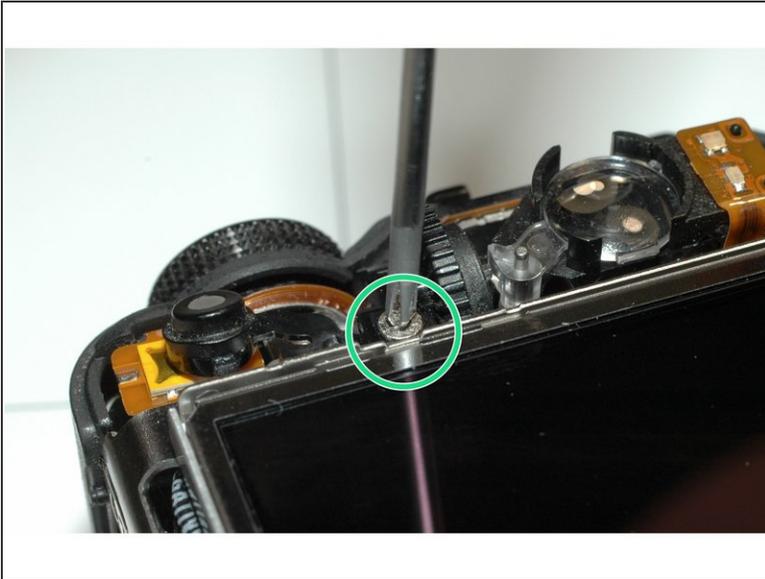
- Remove the two screws circled green
- Remove the buttons

## Step 3 — Remove Jog Dial Unit



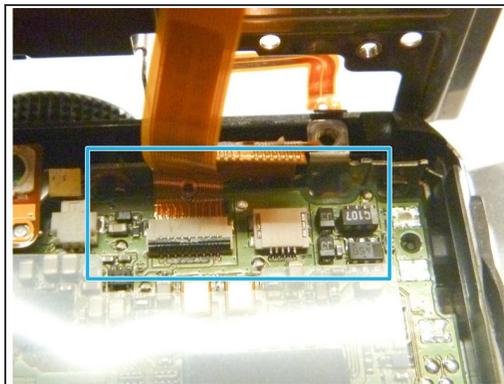
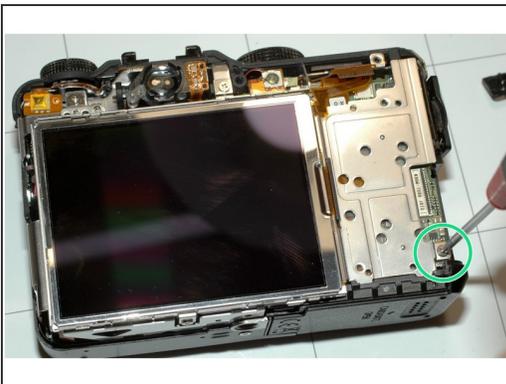
- Disconnect ribbon cable by lifting up flap
- Disconnect other cable (another flap)
- Remove jog dial unit

## Step 4 — Remove Finder dial



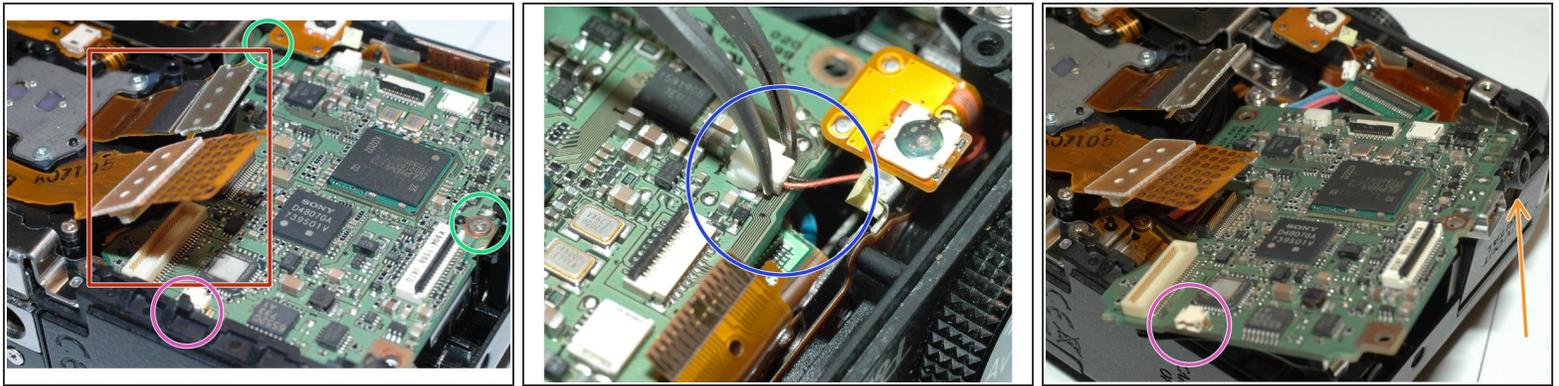
- Remove the one screw circled green
- Remove the finder dial

## Step 5 — Remove LCD



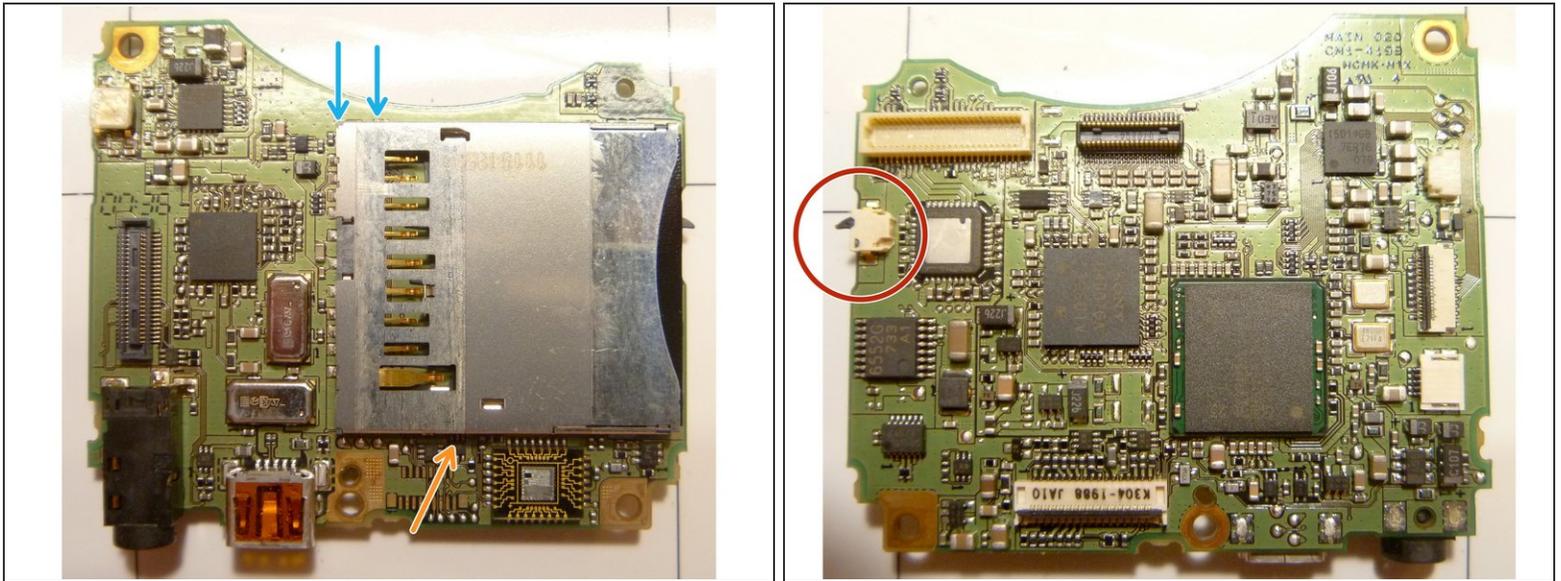
- Remove screw and lift LCD upwards very carefully. Do not put any strain on cables
- Carefully remove flex cables. The left has a flap that needs to be opened (up), the right just needs to be pulled out. Be careful when re-inserting the right one, you can easily damage the fragile cable.
- Remove the LCD

## Step 6 — Remove main PCB



- Remove screws
- Disconnect connectors for Lens assembly
- Carefully disconnect the tiny cable
- Next step is removing the PCB. I made the mistake not to take care about the battery compartment switch. If you are not careful, the black lever will break off. Not a problem though, because then the camera will work also with opened battery compartment
- Remove main PCB by slightly bending outward the cover for the jack with fingernail. Now lift the PCB slightly upwards.
- Look under the PCB, there is a connector that needs to be separated by means of a small screwdriver or spudger.
- Re-attaching the connector is not easy. I used a small screwdriver to carefully press the connector back in place.
- **i** This is not the official method to do this. Normally the Top cover and several other parts need to be removed too.

## Step 7 — Check SD-Card Slot



- Measure continuity with a multimeter on SD-card slot write protect switch
- If it is not working, short the two points with a bodge wire, so write lock is disabled
- Another possible fault is a broken soldering joint holding the case of the SD-card reader in place.

Repeat the steps in order to reassemble your device.