Canon PowerShot G9 SD-Card Slot Write Lock.

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

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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

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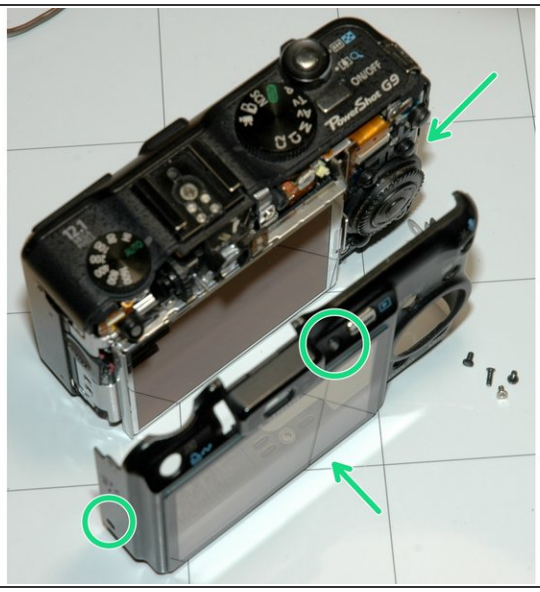
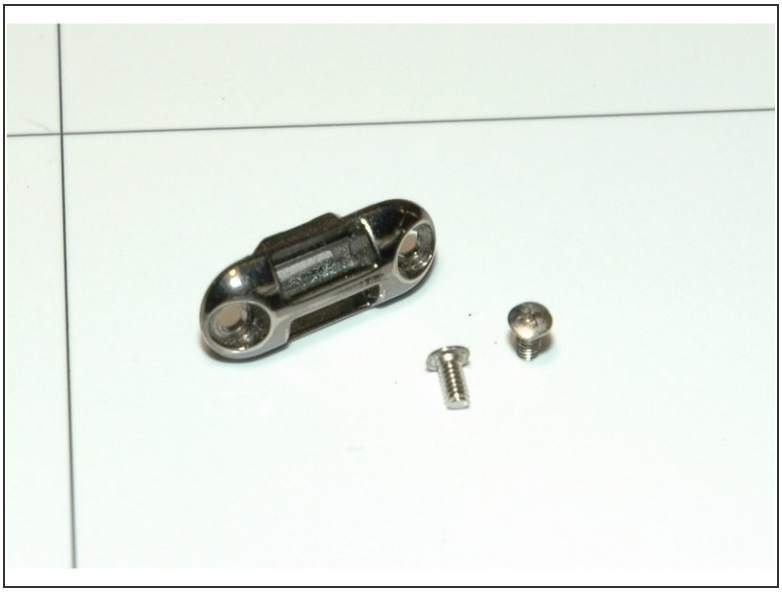
TOOLS:

- Phillips #0 Screwdriver (1)
- Tweezers (1)
- Head Magnifier (1)
- Soldering Iron (1)

Step 1 — Open rear cover of camera.

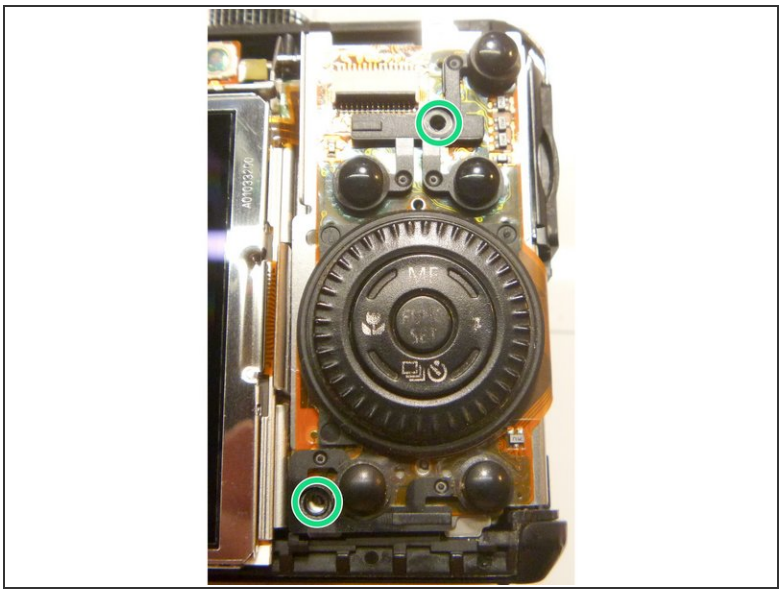




⚠ Be very careful not to touch any charged flash capacitor

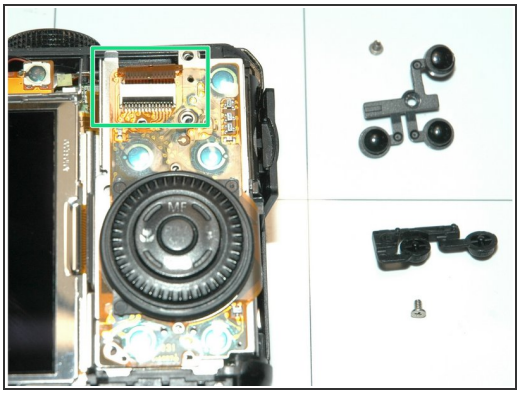
- Remove screws as marked. 2 for strap holder, 5 for back cover
- Remove Back cover and strap holder

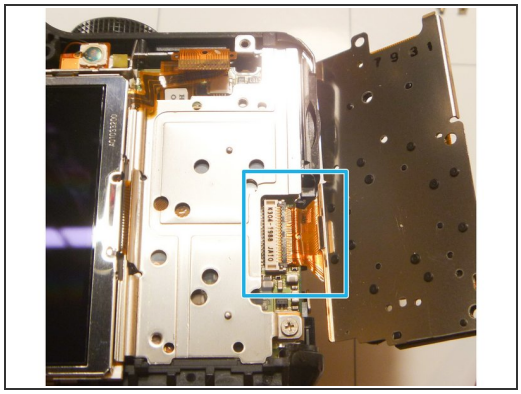
Step 2 — Remove Buttons.

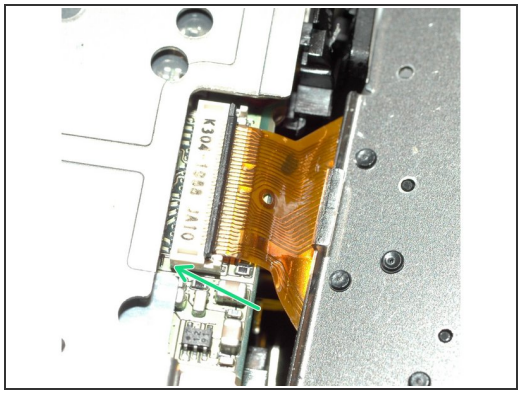


- Remove the two screws circled green.
- Remove the buttons.

Step 3 — Remove Jog Dial Unit.

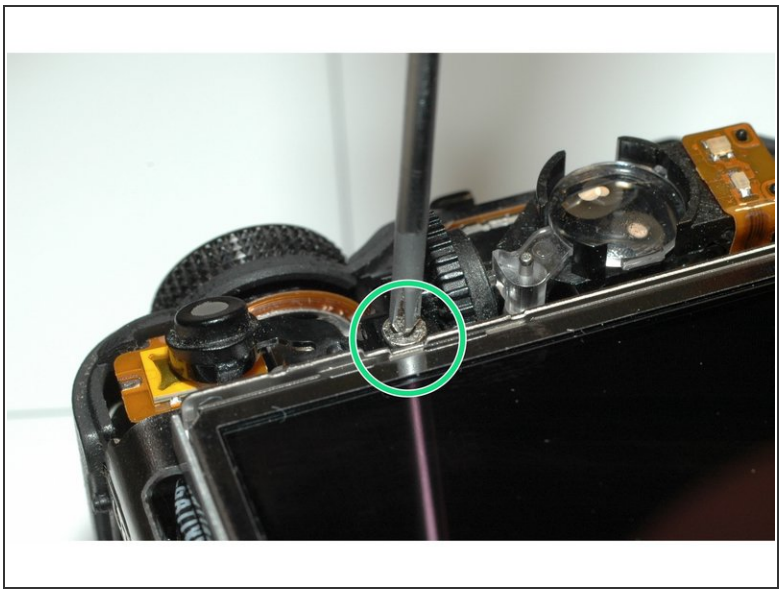


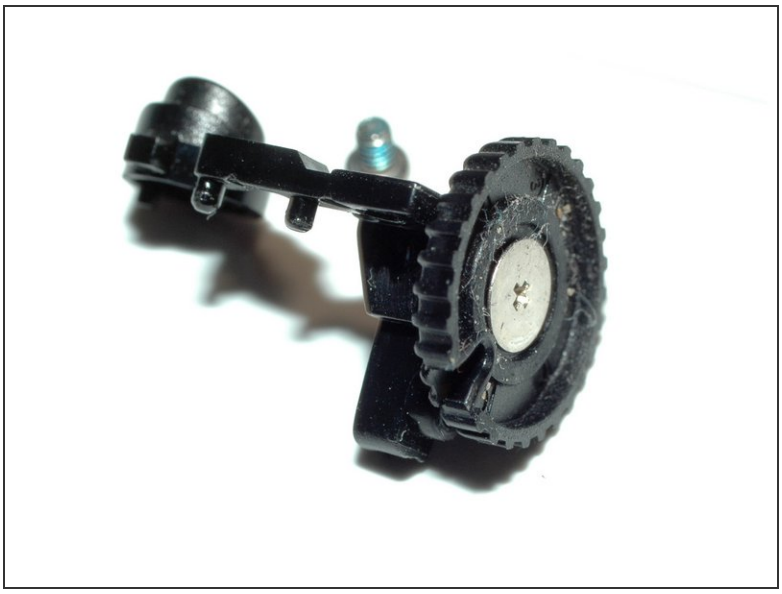




- Disconnect ribbon cable by lifting up flap.
- Disconnect other cable (another flap)
- Remove jog dial unit

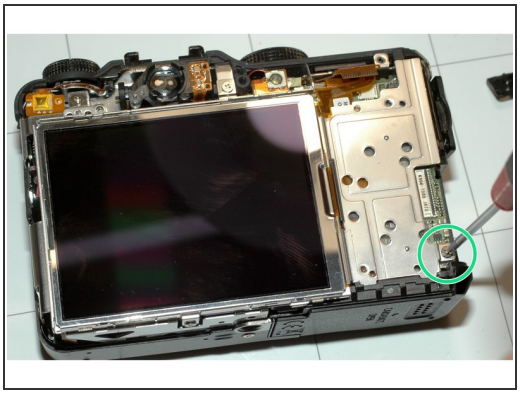
Step 4 — Remove Finder dial.

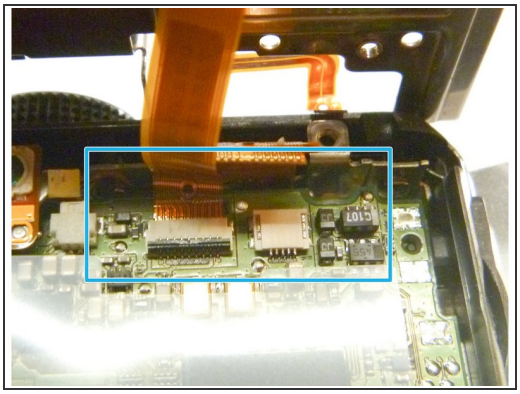


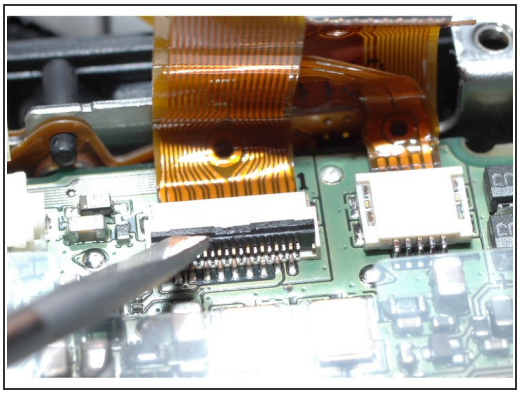


- Remove the one screw circled green.
- Remove the finder dial

Step 5 — Remove LCD.

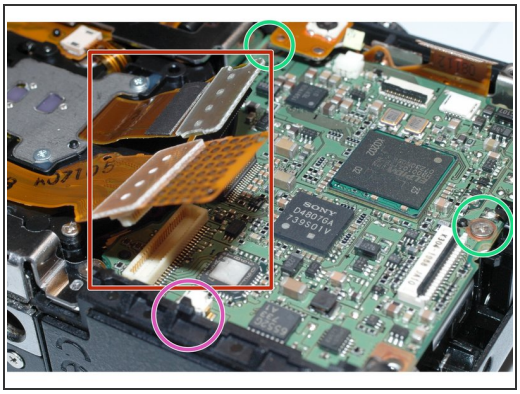


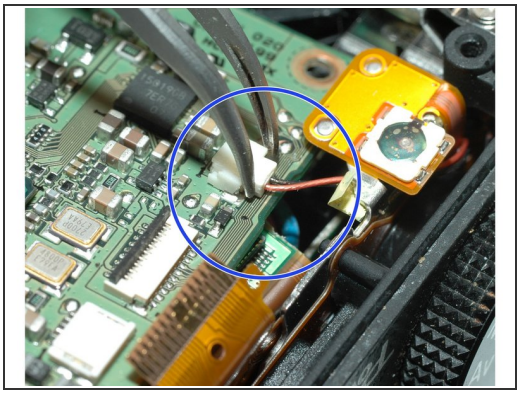


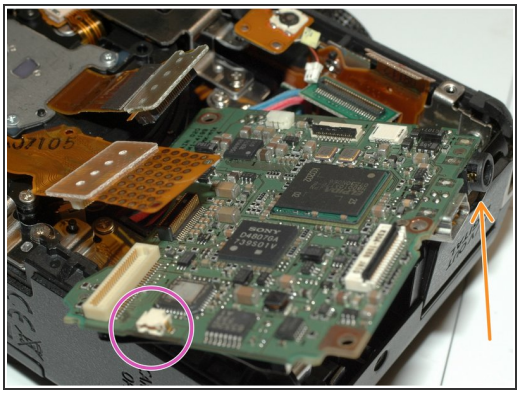


- Remove screw and lift LCD upwards very carefully. Do not put any strain on cables.
- Carefully remove flex cables. The left has a flap that needs to be opened (up), the right just needs to be pulled out. Be careful when re-inserting the right one, you can easily damage the fragile cable.
- Remove the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

Step 6 — Remove main PCB.



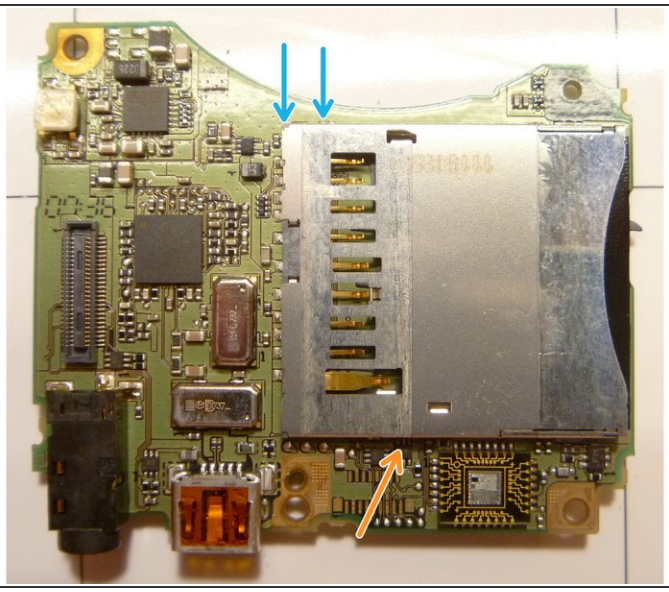


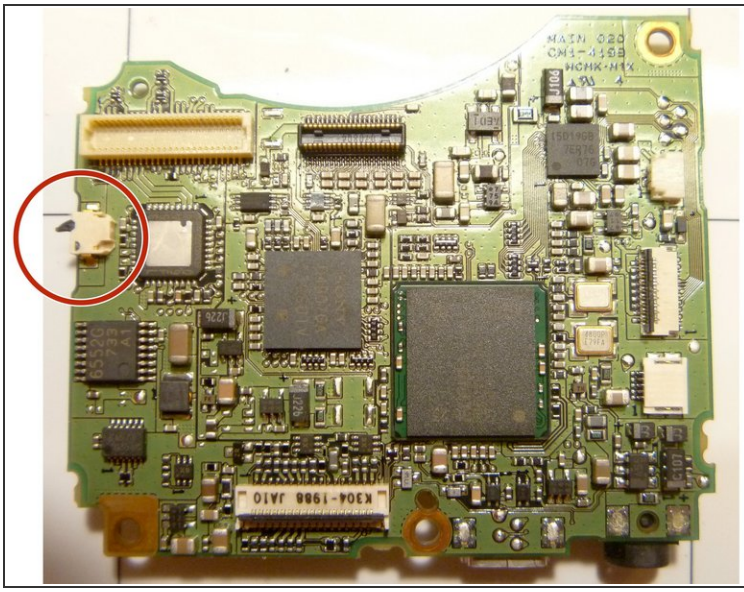


- Remove screws.
- Disconnect connectors for Lens assembly
- Carefully disconnect the tiny cable
- Next step is removing the PCB. I made the mistake not to take care about the battery compartment switch. If you are not careful, the black lever will break off. Not a problem though, because then the camera will work also with opened battery compartmen
- 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.

ⓘ 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.

