Nikon D7000 Shutter Assembly Replacement

The guide is for replacing the shutter assembly of a Nikon D7000.

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INTRODUCTION

Use this guide to replace the shutter assembly.

TOOLS:

- Metal Spudger (1)
- Phillips #0 Screwdriver (1)
- Spudger (1)
- Tweezers (1)
Step 1 — Motherboard

- Remove the following 5 screws securing the bottom cover to the camera body:
  - Four 6 mm J000 screws.
  - One 8 mm J000 screw (under lens mount).

Step 2

- Remove three 6 mm J000 screws from under the battery cover.
Step 3

- Gently pull the bottom cover off of the camera body.

Step 4

- Remove the following screws from the port area:
  - Two 3.5 mm J000 screws.
  - One 6 mm J000 screw (right above ports).
Step 5

- Peel the rear rubber piece off with tweezers.

Step 6

- Remove one 4.25 mm J000 screw from behind the rear rubber piece.
Step 7

- Pull the eyepiece cover up to remove it.

Step 8

- Remove two 6 mm J000 screws from behind the eyepiece cover.

ℹ️ On D7100 models, there is an additional screw holding the back plate on. This screw is located in the diopter (dial with + - on it). This screw can be accessed by peeling up this sticker on the diopter.
Step 9

- Open the SD card cover by pushing slightly down with your thumb and sliding up.

Step 10

- Remove four 6 mm J000 screws that secure the SD card cover.
**Step 11**

- Gently pull the SD card cover off.

**Step 12**

- Remove the following screws that secure the back case:
  - One 6 mm J000 screw.
  - One 3 mm J000 screw.
Step 13

- Carefully lift the back case off.

Step 14

- Disconnect the following two ribbon cables from the motherboard.

See our [Cable Connector Guide](#) for help with ribbon cable connectors!
Step 15

- Remove the following screws securing the left motherboard shield:
  - One 2 mm J000 screw (on the bottom).
  - One 3.5 mm J000 screw (on the back).

⚠️ Be careful of the grounding clips on the motherboard.
Step 16

- Gently pry and lift the left motherboard shield off.

Step 17

- Remove one 3.5 mm J000 screw securing the right motherboard shield.
Step 18

- Gently lift the right motherboard shield off with the tip of a spudger.

Step 19

- Disconnect remaining ribbon cables.
Step 20

- Disconnect remaining ribbon cables.

Step 21

- Carefully disconnect the red connector with tweezers.
Step 22

- Remove four 3.5 mm J000 screws securing the motherboard.

Step 23

- Gently pull the port side cover away from the motherboard.
Step 24

- Lift the motherboard off.

Step 25 — Tripod Plate

- Remove four 6 mm J000 screws securing the tripod plate.
Step 26

- Carefully lift the tripod plate from the backside of the camera and slide out the grounding clip from under the lens mount.

Step 27 — Image Sensor

- Disconnect black and white speaker cable.
Step 28
- Remove three 6 mm J000 screws securing the image sensor.

Step 29
- Carefully lift the image sensor plate out of the camera.
Step 30 — Shutter Assembly

- Manually pop up flash by inserting a screw driver to the left of the viewfinder and pressing on the metal lever.

⚠️ It won't take much pressure. Press carefully and the flash will pop up when you find the right spot.

Step 31

- Remove two 5 mm J000 screws from under the flash.
Step 32

- Remove two 3 mm J000 screws securing the front cover.

Step 33

- Remove the front cover.
Step 34

- Carefully remove the port cover.

Step 35

- Deroute the microphone cable.
**Step 36**

- Remove one 4 mm J000 screw from the front.

**Step 37**

- Remove one 8.5 mm J000 screw from the battery compartment.
Step 38

- Remove the grip carefully.

Step 39

- Remove one 4 mm J000 screw securing the top case (under right strap hook).
Step 40

- Remove one 4 mm J000 screw securing the top case (under left strap hook).

Step 41

- Remove the sticker covering the diopter adjust screw.
Step 42

- Remove one 8.0 mm J000 screw.
- Remove the Diopeter Adjust.

Step 43

- Remove the top case.
Step 44

- Remove the Black, Yellow, Green cable from the top case board.

Step 45

- Remove two 6.5 mm J000 screws securing the viewfinder.
- Remove the viewfinder cover.
Step 46

- Remove one 3 mm J000 screw from the bottom left side of the camera.

Step 47

- Remove two 6 mm J000 screws from the left of the shutter.
Step 48

- Remove two 6.5 mm J000 screws from beneath the lens mount.

Step 49

- Remove two screws from just below and to the sides of the viewfinder.
Step 50

- Remove one 5 mm J000 screw from the top right of the camera.

Step 51

- Carefully peel back ribbon cable on the bottom left of camera.
Step 52

- Remove the left front ribbon cable from top right of circuit board.

Step 53

- Remove all three wire connectors.
Step 54

- Separate the shutter assembly from the camera body.

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