Xbox Series X Optical Drive Replacement

Use this guide to replace a faulty optical...

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INTRODUCTION

Use this guide to replace a faulty optical drive in an Xbox Series X.

Before you begin, completely **power down and unplug all cables** from your console. Remember to follow general electrostatic discharge (ESD) safety procedures while repairing the console.

The board inside the optical drive is software-linked to the console's motherboard. This board will need to be transferred into the replacement optical drive to restore full functionality. **This will require you to de-solder and solder two wires.** Follow general soldering safety guidelines such as wearing eye protection, working in a well-ventilated area, and washing your hands after with soap and water after soldering.

TOOLS:

TR8 Torx Security Screwdriver (1)
Spudger (1)
ESD Safe Blunt Nose Tweezers (1)
Tweezers (1)
Soldering Station Hakko FX888D-23BY (1)
Solder ROHS Lead Free Rosin Core (1)
Phillips #1 Screwdriver (1)

PARTS:

Xbox Series X Dual Motherboards and Paired Optical Drive (1)

Step 1 — Uncover the back panel screws

⚠️ Before you begin, completely power down and unplug all cables from your console.

- Use a pair of tweezers to remove the sticker hiding the first screw on the back panel, near the base.

Step 2

- Use a pair of blunt tweezers to peel back the large sticker on the back panel to reveal the second screw.
  - ⓘ You only need to peel this sticker to where you can access the hidden screw. You don't need to pull it completely off.

  - ⓘ Technically, these are tamper-evident stickers, but don't worry—Microsoft can't legally void your warranty, as long as you don't damage anything. Have fun!

Step 3 — Remove the back panel screws

- Use a T8 Torx driver to remove the two 7.4 mm-long screws securing the back panel.

- ⓘ Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your console.

Step 4 — Unclip the back panel

- Insert the flat end of a spudger into the gap between the back panel and the shell, near the left side of the base.

- Pry up the back panel to release it from the locking clips.

Step 5

- Insert the flat end of a spudger into the gap between the back panel and the shell, near the right side of the base.

- Pry up the back panel to release it from the locking clips.

Step 6 — Remove the back panel

- Grip the back panel at the opening you just created and pull it up and away from the shell to unclip the long edges.

- 📌 During reassembly, press along the edges of the back panel to snap it into place.
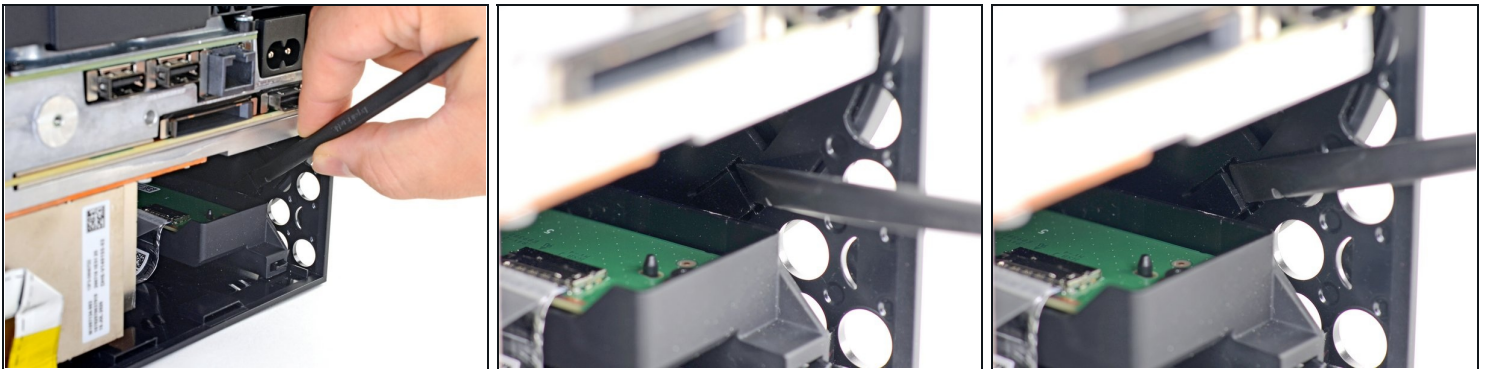
Step 7

ⓘ The back panel slots into a gap at the top of the shell.

● Tilt the back panel up and pull it away from the top edge of the shell to release it from the gap.

● Remove the back panel.

Step 8 — Unlatch the base

● Use the flat end of a spudger to lift up on the locking tab holding the base to the shell.

Step 9 — Twist and remove the base

- Grip the base and rotate it counterclockwise to unlock it from the shell.
  - ⓘ You may need to hold the locking tab open while you get the base started.

- Remove the base.

- 🔳 During reassembly, drop the base tabs into their holes on the shell and twist clockwise until the base snaps into the interior locking tab.
  - ⓘ When locked in place, the "*Hello from Seattle*" line will be parallel with the device's sides.

Step 10 — Remove the optical drive screws
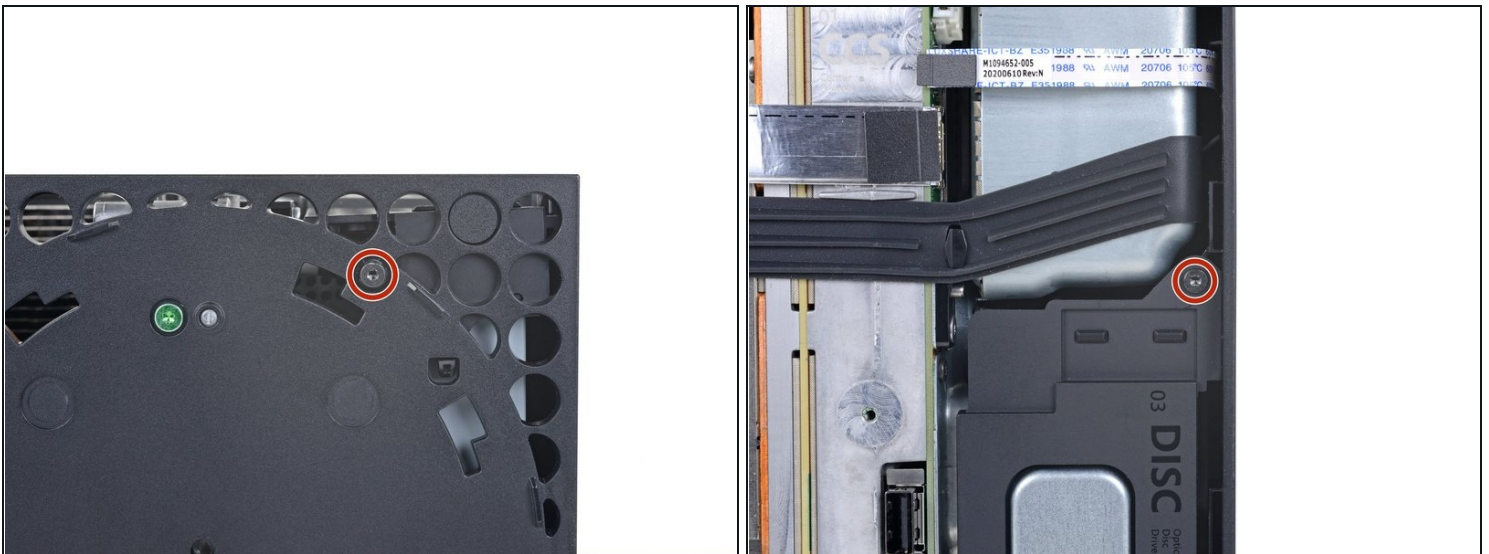
- Use a T8 Torx driver to remove the two 8.8 mm screws securing the optical drive's vibration isolator to the shell: one on the base and one on the top of the isolator.

Step 11 — Remove the vibration isolator

- Lift up the optical drive's vibration isolator to remove it.
  - ⓘ The vibration isolator grips the sides of the optical drive with silicone pads, so you may need to "walk" the isolator off of the drive to slip it off each side.

- 🔲 During reassembly, ensure the vibration isolator is pushed down and around both edges of the optical drive, so it sits flush with the rest of the center chassis.

Step 12 — Disconnect the power and data cables
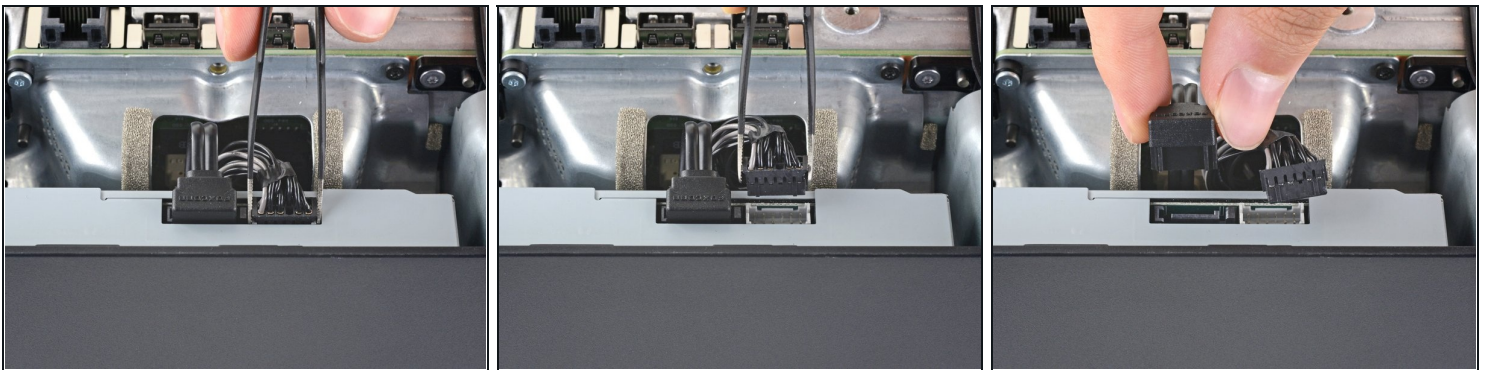
- Use a pair of blunt tweezers to grip the edges of the optical drive power connector and pull up to disconnect it from the optical drive.
  - ⚠ Always pull cables by their connectors and not the wires themselves.

- Use your fingers to pull up and disconnect the data cable from the optical drive.

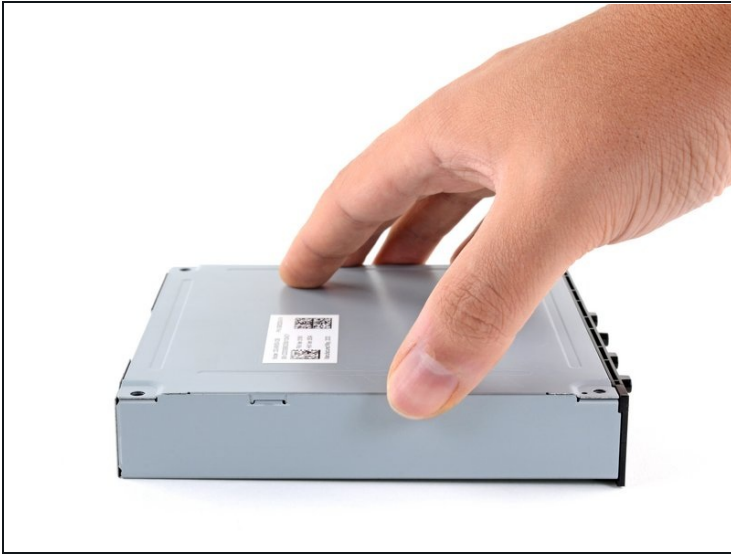## Step 13 — Remove the optical drive

- Grip the top edge of the optical drive and pull it out of its slot in the shell to remove it.

- ☑ During reassembly, align the pegs on the bottom edge of the optical drive with the guide holes on the bottom of the shell.
  - ⓘ If the drive is misaligned, the top vibration isolator will not be able to be installed correctly, and the disc reader will be misaligned with the front of the console.

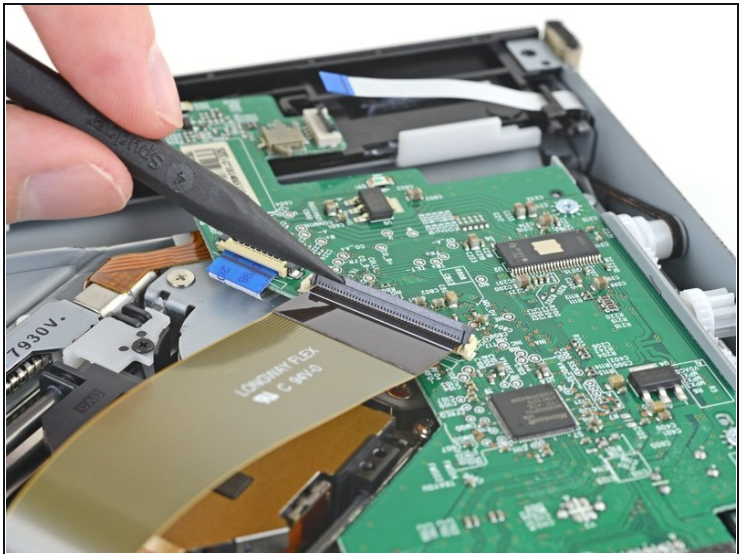## Step 14 — Remove the optical drive cover

- Use a Phillips screwdriver to remove the four 3.6 mm screws securing the optical drive cover.

Step 15

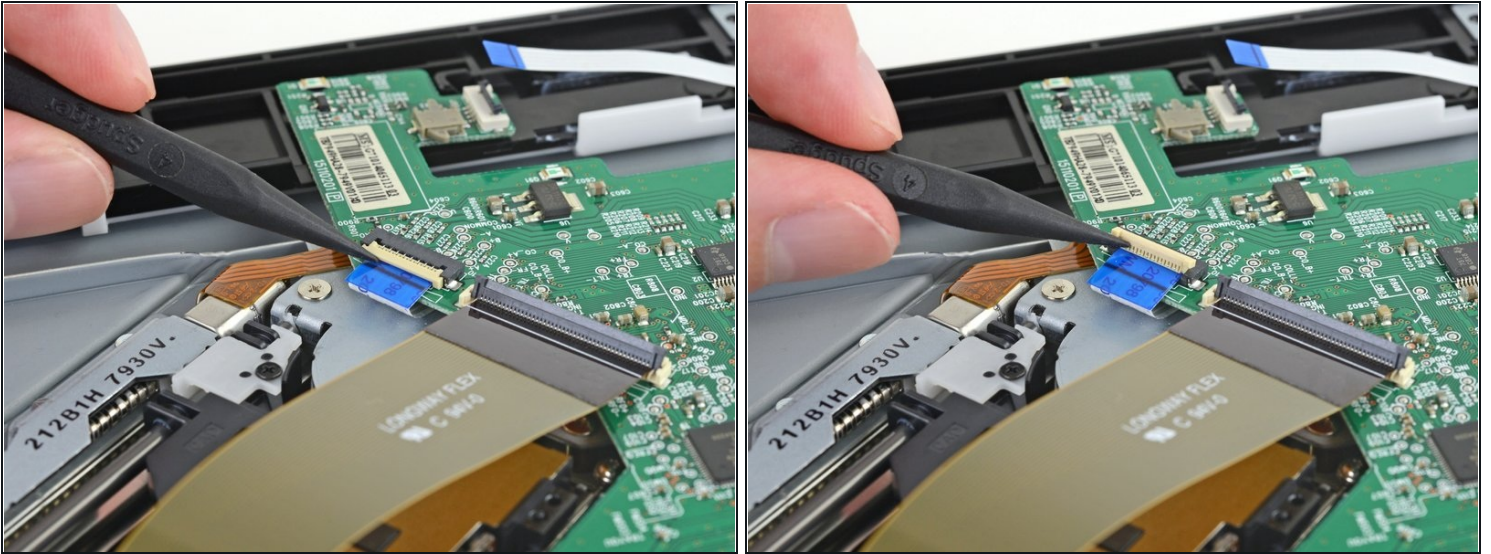- Lift the optical drive cover straight up to remove it.

Step 16 — Disconnect the three ribbon cables

- Use the pointed end of a spudger to flip up the hinged locking tab on the large ribbon cable's [ZIF connector](#).
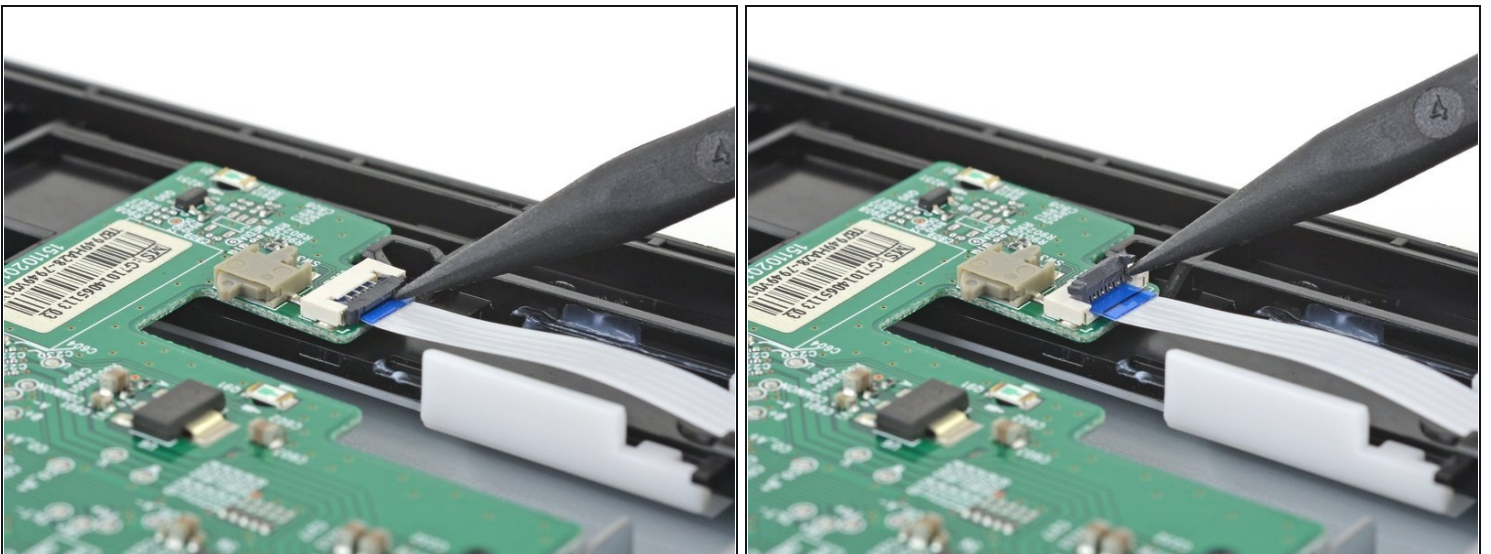
Step 17

- Use the pointed end of a spudger to flip up the hinged locking tab on the small ribbon cable's ZIF connector.
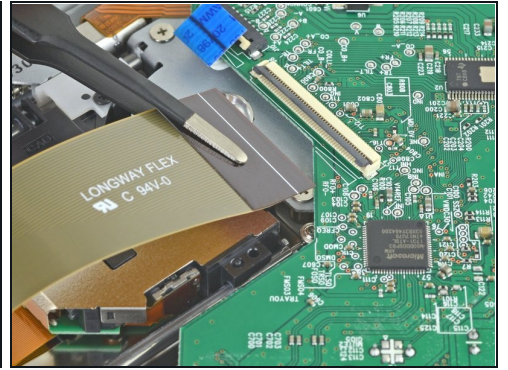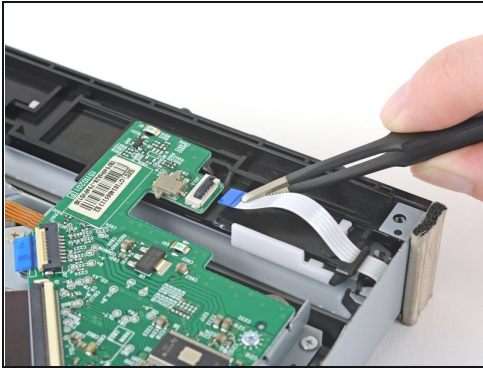
Step 18

- Use the pointed end of a spudger to flip up the hinged locking tab on the small ribbon cable's ZIF connector, near the corner of the optical drive.
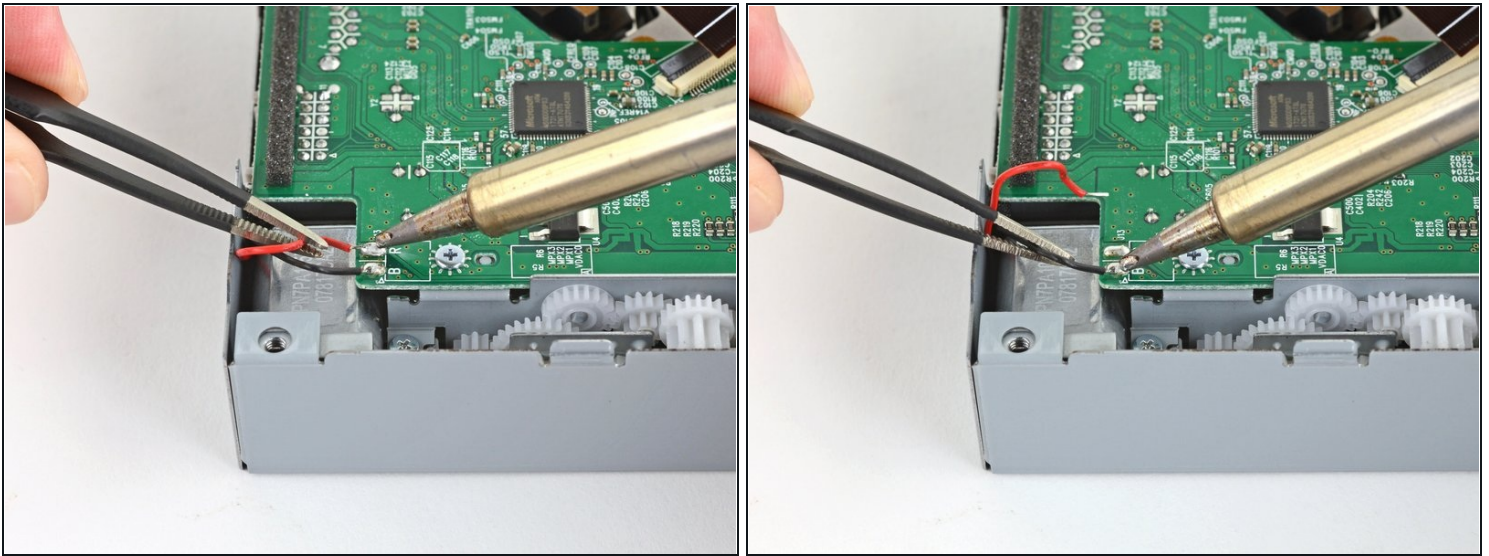
Step 19

- Use a pair of blunt tweezers to remove each of the three ribbon cables from their connectors.
  - ⓘ Always pull ribbon cables straight out of their connectors, in the direction of the cable.

Step 20 — Desolder the two wires

- Use a soldering iron to [desolder](#) the red wire in the corner of the disc drive circuit board.

- Then, desolder the adjacent black wire. Use a pair of blunt tweezers to hold and pull away the wires from the circuit board.

⚠ Follow general soldering safety guidelines such as wearing eye protection, working in a well-ventilated area, and washing your hands with soap and water after soldering.

⚠ Excessive heat may damage electrical components. Don't apply the soldering iron to the board for long periods of time.

⚏ When you install the original circuit board into the replacement disc drive, solder the red wire to the solder pad labeled **R**. Solder the black wire to the solder pad labeled **B**.

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Xbox Series X Answers community](#) for help.