



Acer AL1716 Capacitor Replacement

This guide will demonstrate the technique for disassembling the monitor, identifying and replacing blown capacitors.

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INTRODUCTION

When desktop monitors stop working, the cause can be attributed to blown capacitors on a circuit board. Rather than discarding the monitor, it's often times easier and cheaper to replace the capacitor yourself. The cost of a monitor can range from \$50-500, while capacitors are generally under \$1. It should be noted that capacitors are electrical components that store a charge, so it's advised to perform this repair only after the device has been unplugged from any power source for at least 24 hours. As an extra precaution, review the [How to Safely Discharge a Capacitor](#) guide before disassembly. A smooth surface and a medium level of force will be required.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Spudger](#) (1)
 - [Soldering Iron](#) (1)
 - [Solder](#) (1)
 - [Desoldering Braid](#) (1)
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Step 1 — Acer AL1716 Capacitor



 Ensure that your monitor has been unplugged from any power source for at least 24 hours.

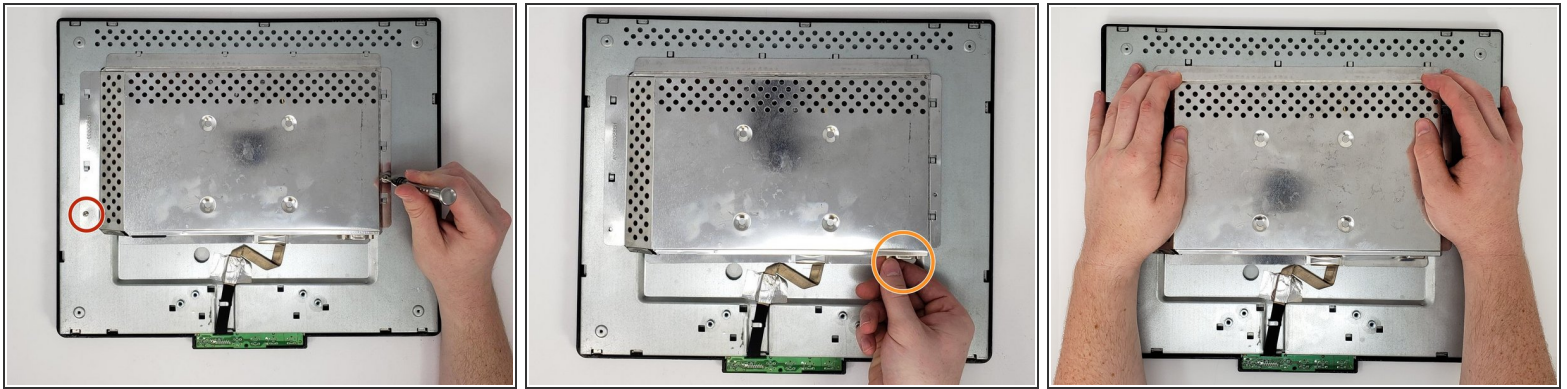
- Pinch as shown, and pull towards the body to remove the cover from the stand. This will require significant force.
- Remove the four 0.7 mm Phillips #0 screws connecting the stand to the monitor.

Step 2



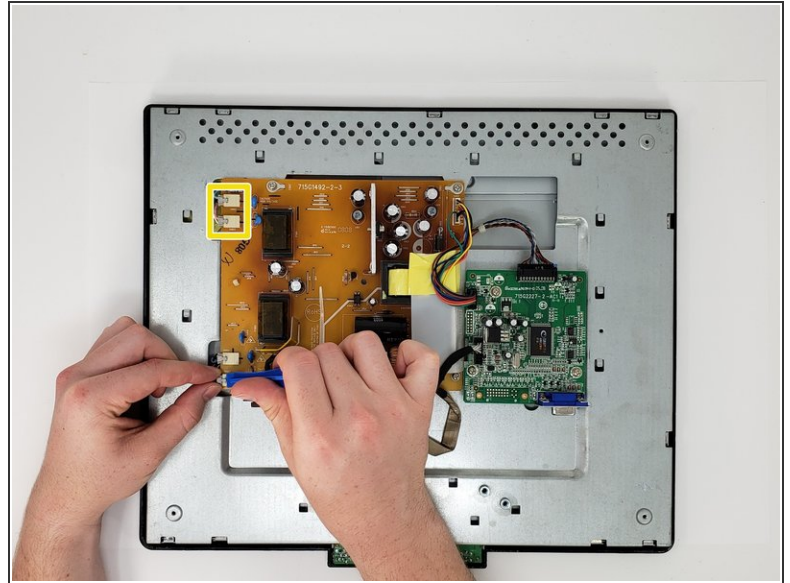
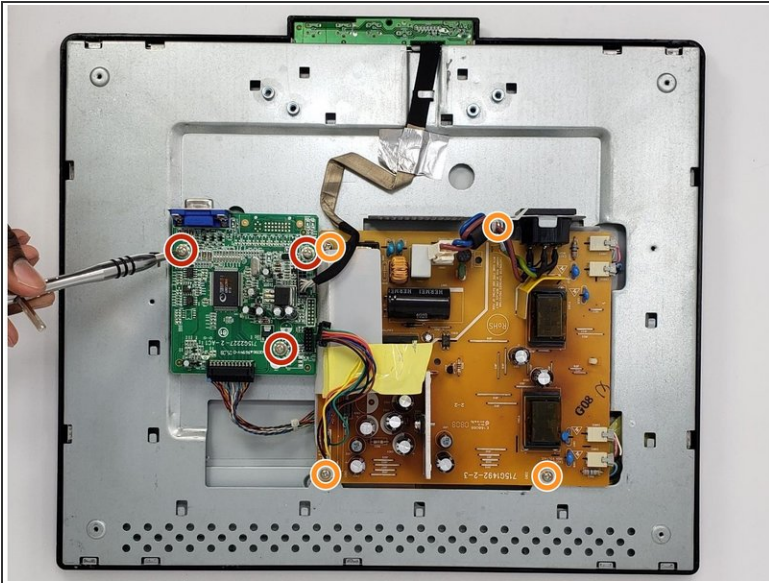
- Remove the four 0.7 mm Phillips #0 screws connecting the back panel to the monitor.
 - Remove the single 0.85 mm Phillips #0 screw from the location shown.
- Insert the plastic opening tool into the crevice along the side, top, and bottom of the monitor.
 - Pry open the monitor by running the plastic opening tool along the crevice.
- Lift the back panel off of the monitor as shown.

Step 3



- Remove the two 0.7 mm Phillips #0 screws on the sides of the centerpiece motherboard cover.
- Remove by hand the two hexagonal screws securing the digital visual interface (DVI) input.
 - The DVI is typically a blue/black connector with two built-in screw connections on either side. It is secured by hand tightening the two side screws.
- Push the centerpiece motherboard cover toward the body to remove.

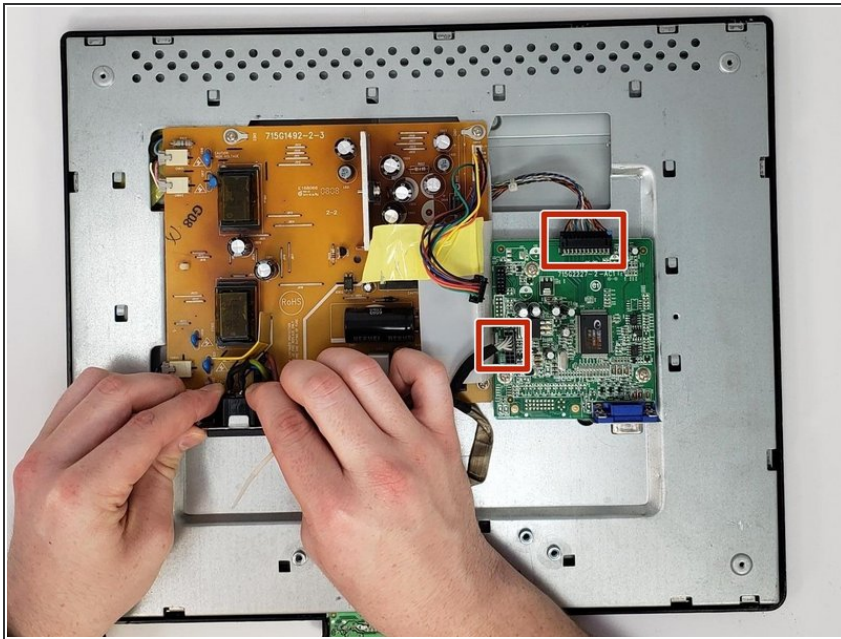
Step 4



⚠ Caution: The circuit board contains capacitors (they look like cylinders) that can shock you if they discharge. Be careful not to touch them as you work. If possible, use a [capacitor discharge probe](#) to safely rid the capacitors of dangerous charges.

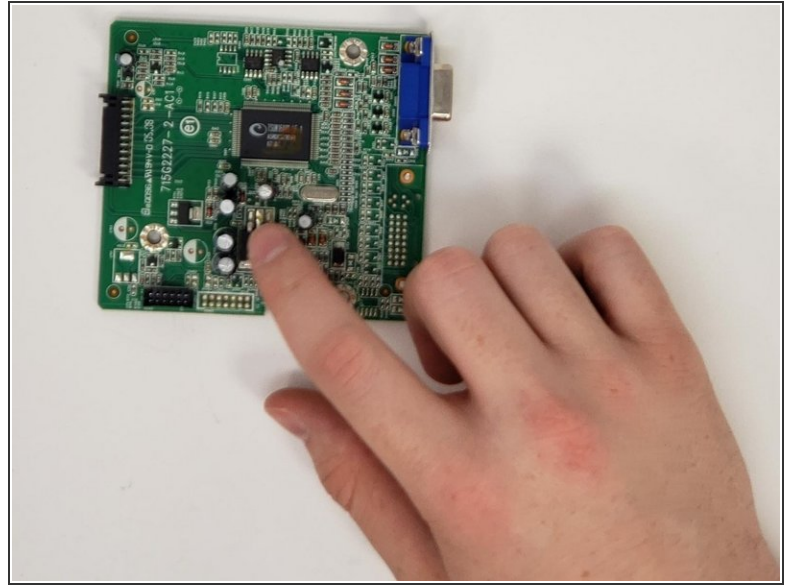
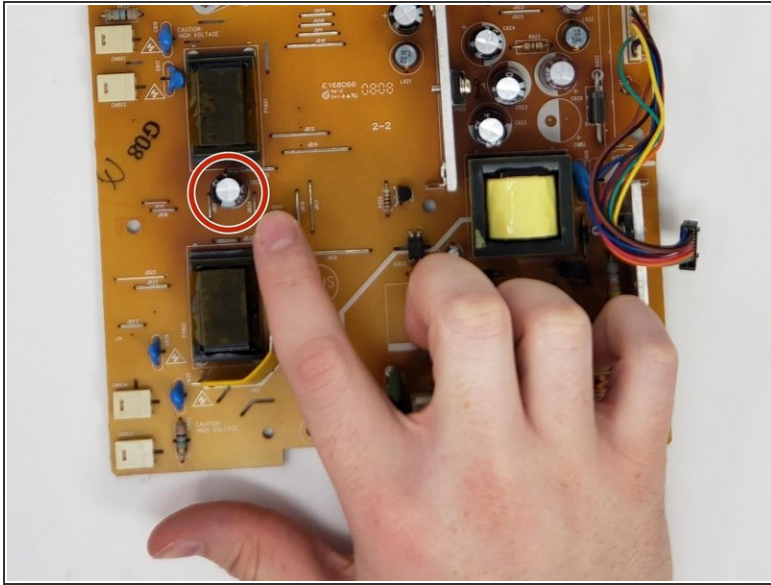
- Remove the three 0.7 mm Phillips #0 screws connecting the motherboard to the monitor.
- Remove the four 0.7 mm Phillips #0 screws.
- Use a spudger or plastic opening tool to disconnect the two red and two blue connectors by placing the tool into the crevice and lifting up the connector.
- ⚠ Ensure that your pry tool is ESD-safe.

Step 5



- Using two fingers, disconnect the power input from the housing by pushing towards the body through the opening.
 - Remove the remaining connections by holding down the motherboard and lifting up the connections.
- ⓘ A medium level of force will be required to remove the connections.

Step 6



- Examine the top of each capacitor to check capacitor life.
 - ❗ A domed top surface indicates a blown capacitor that needs to be replaced.
- Replace necessary capacitors via soldering the old capacitor out and soldering a new capacitor in.
- Refer to this soldering guide for [How To Solder and Desolder Connections](#).

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