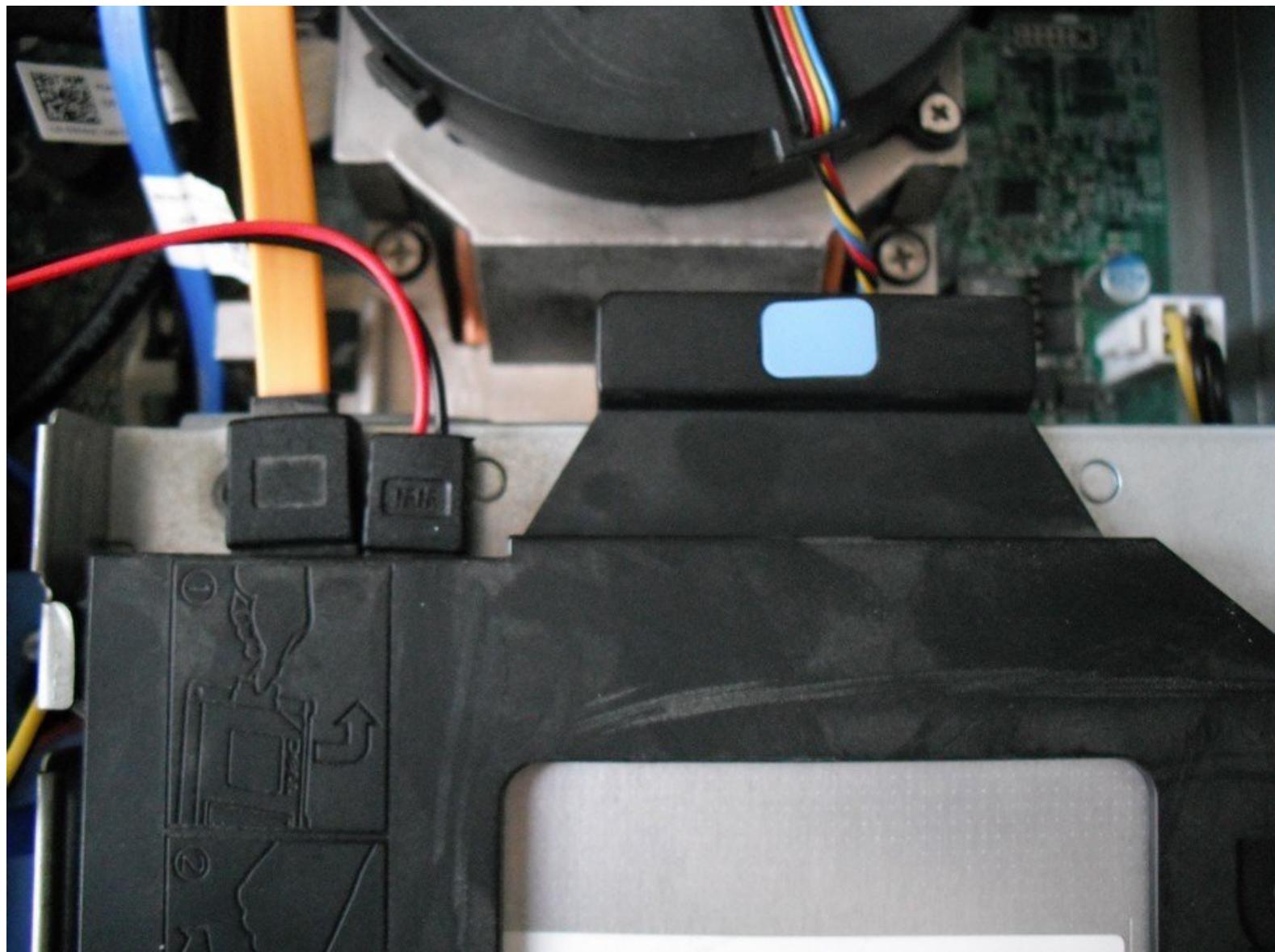




Repair Dell AC240AS PSU

Repair dead Dell PSU AC240AS

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INTRODUCTION

Fairly easy repair to a device which is very expensive to replace.

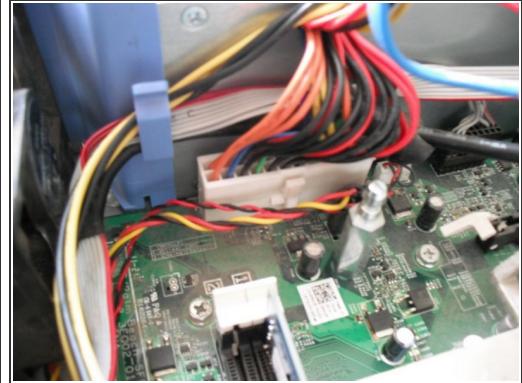
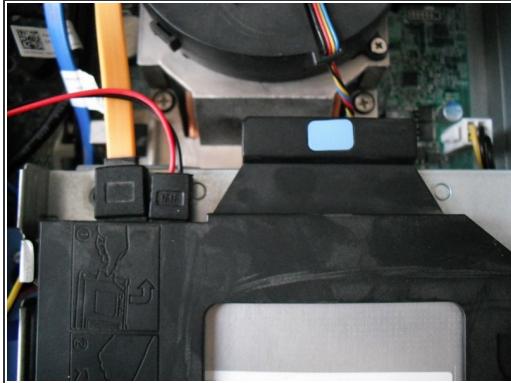
TOOLS:

- Soldering iron and Philips screwdriver (1)

PARTS:

- 120uF 400V capacitor - SPA20N60C3
MOSFET - Ceramic Fuse (6.3A or 3.15A)
(1)

Step 1 — Capacitor, Transistor and Fuse in dead PSU



- Dead PSU caused by failed 120uF 400V capacitor. This in turn caused the switching MOSFET (SPA15N60C3) and on-board fuse to fail. Replace capacitor, transistor (uprated to SPA20N60C3) and fuse (6.3A ceramic). A 3.15A fuse can be used if only used on 220V.
- To remove PSU, release 3 clips on front panel and remove, unplug DVD and HDD connectors, then unclip and slide out DVD and HDD. Remove 3 screws on back of PSU, blue cable clip and 2 motherboard connectors. Release PSU clip at front of PSU then slide it forward and out.
- Remove 4 screws on PSU case and remove cover. Remove cable ties, earth screw and 3 circuit-board screws. Remove circuit board as far as possible. To access the transistor and capacitor, remove the heatsink by unsoldering 3 components and 2 heatsink lugs.
- Replace the faulty components and fuse. If the replacement transistor is the insulated version, you can remove the mica washer and screw insulator. Apply fresh heatsink compound. Check for any bulging secondary capacitors. Then reassemble.
- Install PSU back into PC, then apply power before installing remaining components to ensure that repair was successful (LED on motherboard). If all is good, continue reassembly and final test.

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