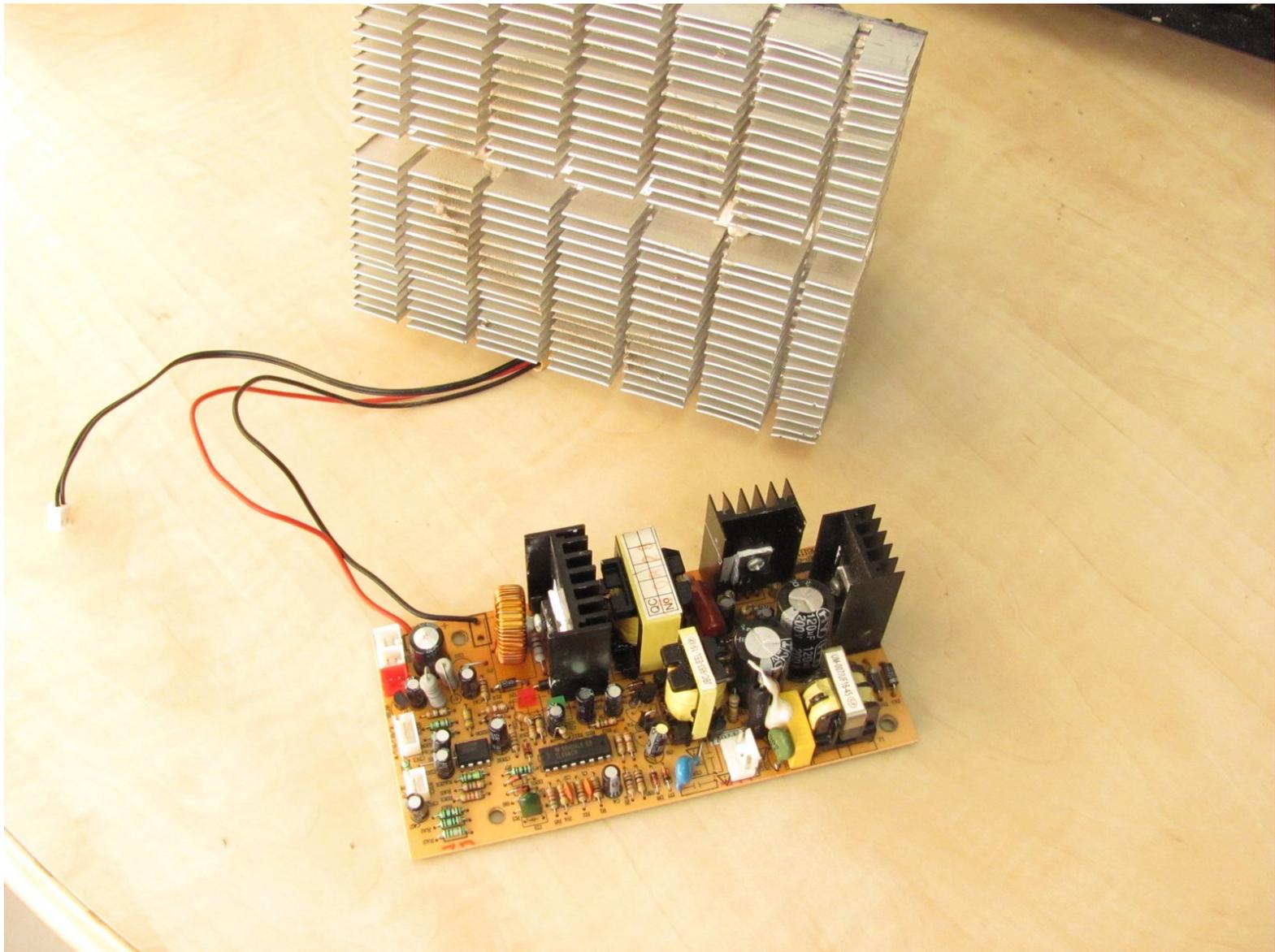




Vinotemp VT-12TEDi Motherboard Repair

Remove the motherboard (and connected heat sink) for repair or replacement.

Written By: Jeff Snyder



INTRODUCTION

If it appears that the motherboard has failed, check all capacitors before considering a motherboard replacement. Replacing a capacitor is much cheaper (and faster) than buying a replacement motherboard from Vinotemp.

TOOLS:

- [Phillips #2 Screwdriver](#) (1)
 - [7 mm Nutdriver](#) (1)
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Step 1 — Power Cord

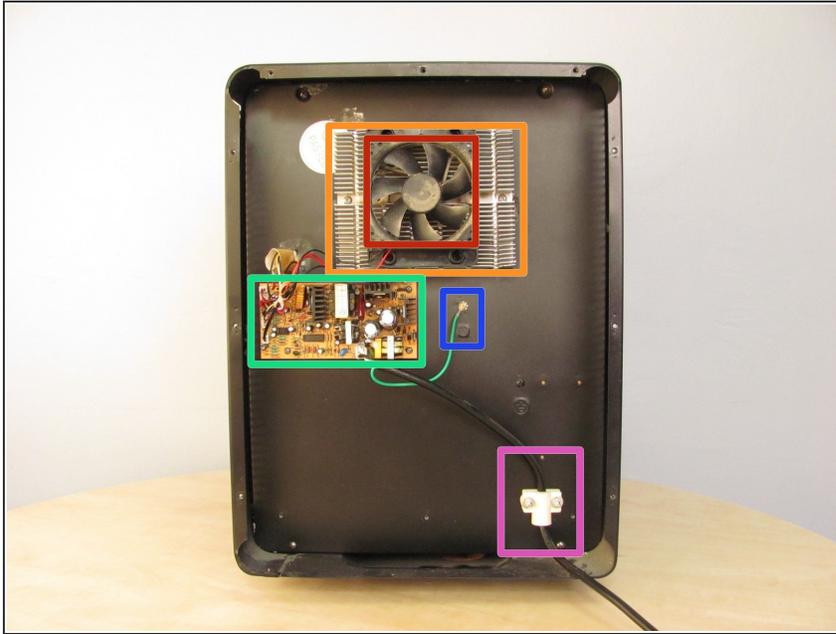


- Remove nine 12mm Phillips screws from the upper back panel.
- Remove three 12mm Phillips screws inset under the back panel.

 As soon as the screws are removed, the panel will fall freely.

 When replacing the twelve 12mm Phillips screws, do not tighten the fasteners until all twelve screws have been loosely fitted back onto the cooler. This will ensure the flimsy metal casing will not warp.

Step 2



- Power Cord Fastener
- Ground
- Motherboard
- Heat Sink Fan
- Heat Sink

Step 3

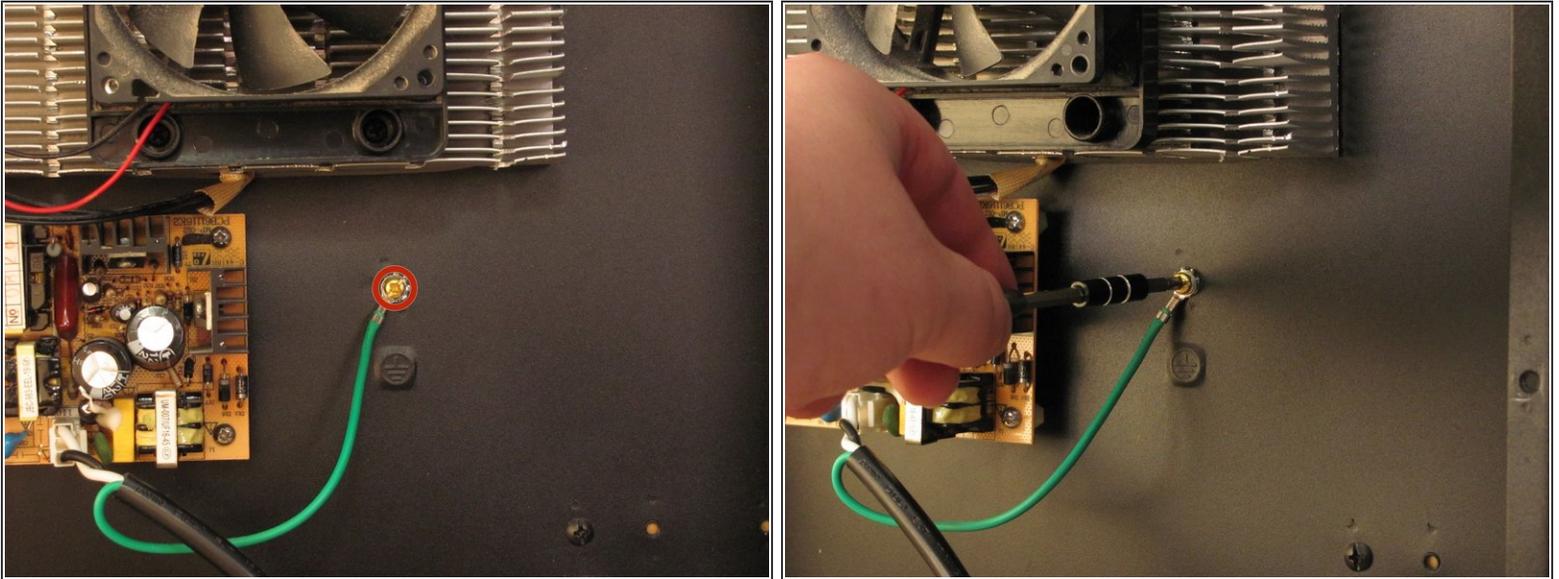


- Remove two 7mm Hex Nuts.

i Clearance is minimal and these screws are very tight. You will likely need a socket wrench to avoid stripping.

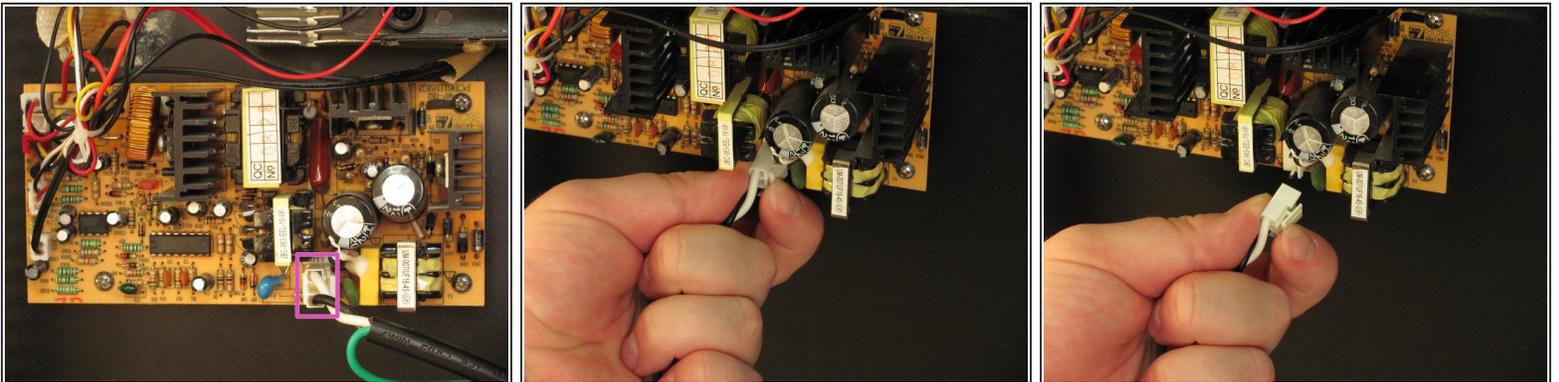
! If the white plastic components stick, pry them apart with a metal spudger. Don't pull on the power cord to get plastic pieces to separate.

Step 4



- Remove one 12mm Phillips screw securing ground.

Step 5



- Remove power cable from motherboard.

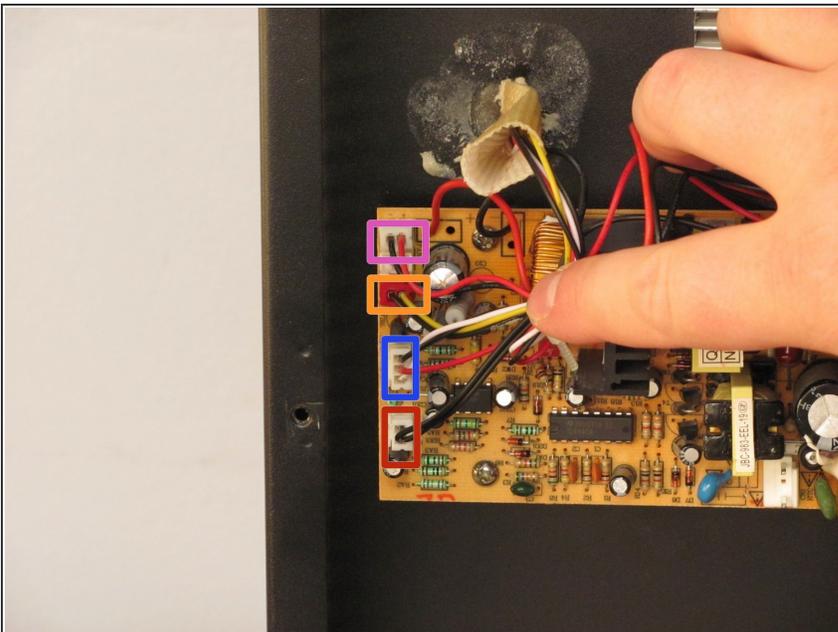
⚠ Pinch cable connector to release it from the motherboard, then pull.

Step 6



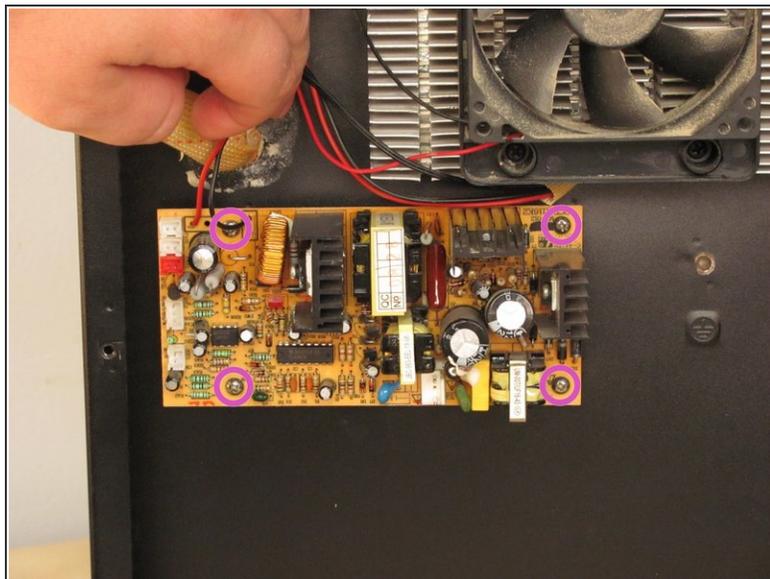
- Your power cord is removed.

Step 7 — Vinotemp VT-12TEDi Motherboard Repair



- Remove heat sink fan cable connector.
- Remove cold sink fan cable connector.
- Remove temperature control board cable connector.
- Remove temperature NTC cable connector.

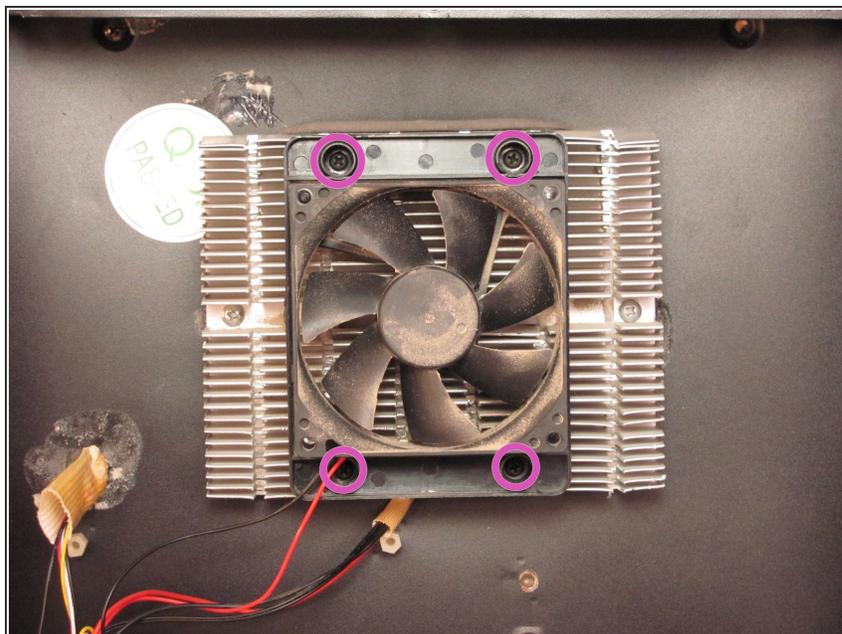
Step 8



- Remove four 12mm Phillips screws.

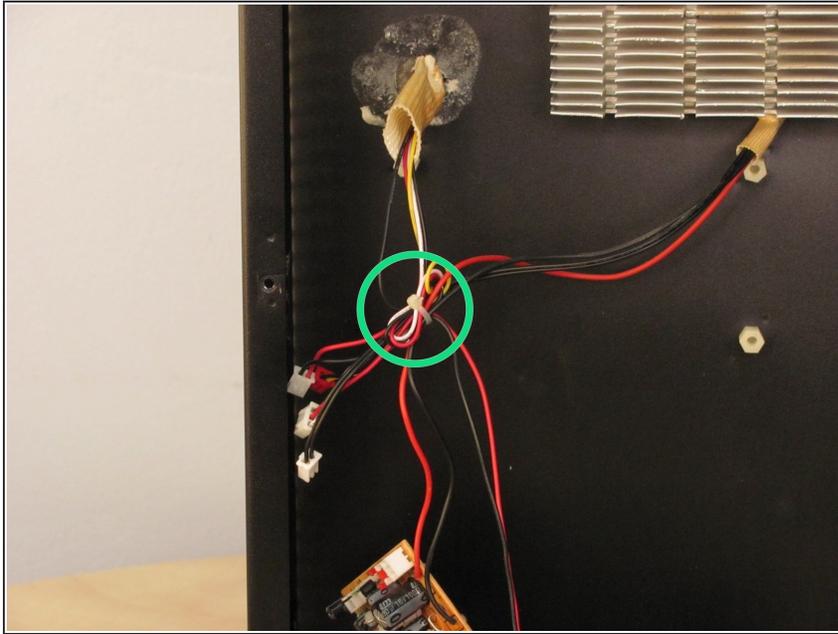
⚠ Once the four Phillips screws are removed, the motherboard will dangle there until you remove the heat sink. Be careful.

Step 9



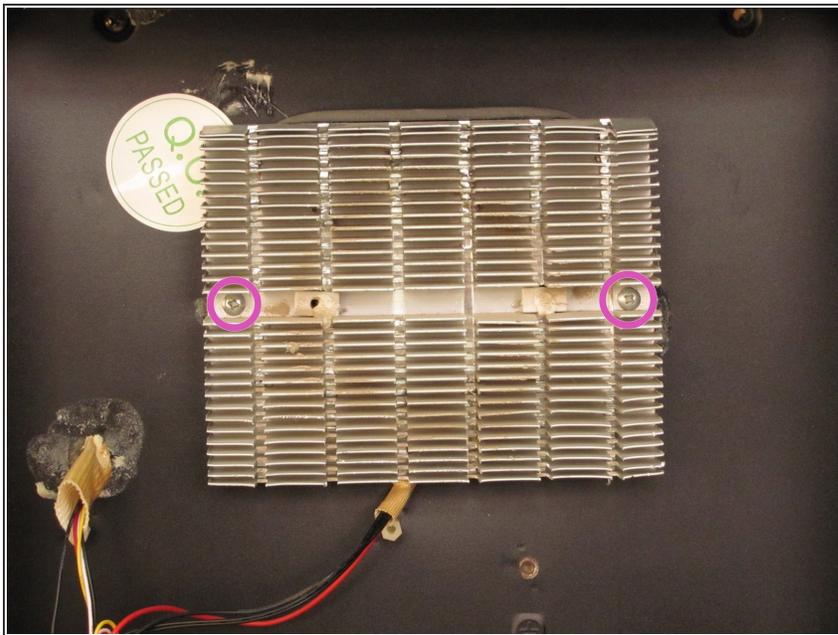
- Remove four 15mm Phillips screws.

Step 10



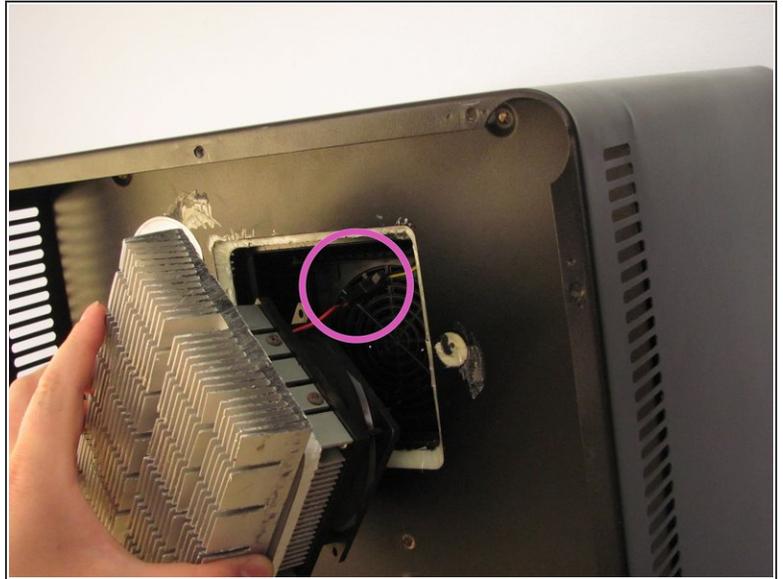
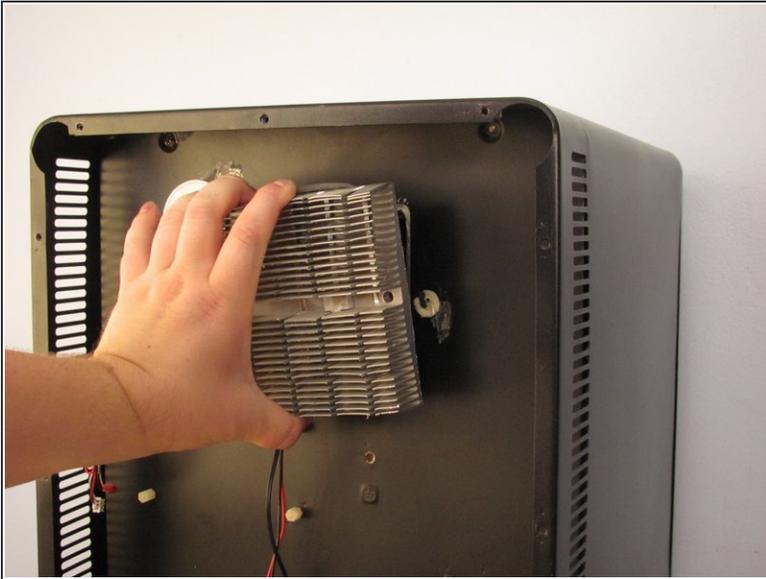
- Cut zip tie binding wires together.

Step 11



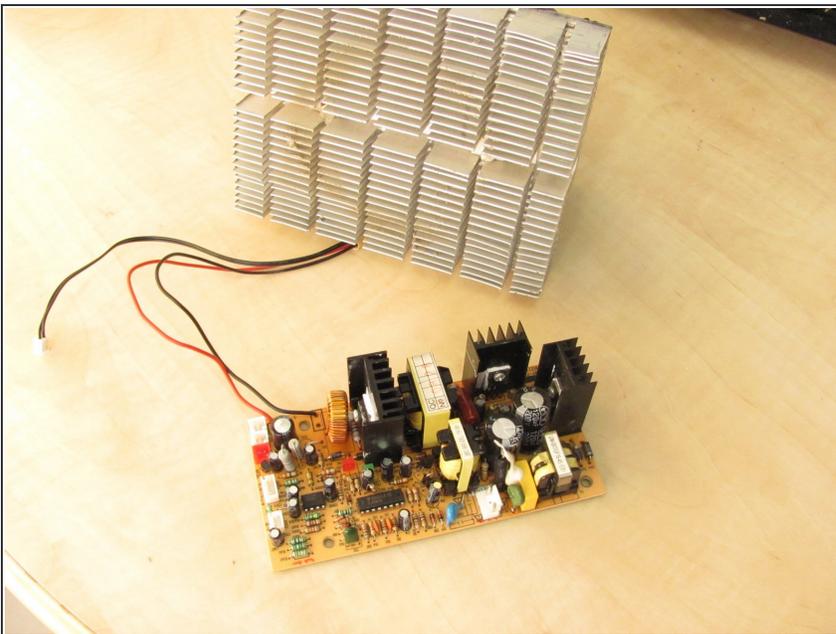
- Remove two 32mm Phillips screws.

Step 12



- Remove heat sink slowly to avoid breaking cold sink fan cable.
- Disconnect cold sink fan cable.

Step 13



- The heat sink and motherboard are removed. Yay!
- The Vinotemp VT-12TEDi has a very high rate of capacitor failure on the motherboard. Before buying a new motherboard:
 - Check for [capacitor failure](#).
 - Learn [how to solder](#) and replace the broken capacitor yourself.

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