



Welch Allyn Connex Vital Signs Monitor 6000

Power Supply Replacement

Replace the power supply in a 6000 series Welch Allyn Connex Vital Signs Monitor.

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INTRODUCTION

Use this guide to replace the power supply in your 6000 series Connex vital signs monitor.

PLEASE NOTE: This repair guide was developed by the iFixit team based on Welch Allyn's own service manual. Neither iFixit nor this repair guide is endorsed by or affiliated with Welch Allyn.

TOOLS:

- [Flathead Screwdriver](#) (1)
 - [Phillips #2 Screwdriver](#) (1)
 - [Coin](#) (1)
 - [Spudger](#) (1)
 - [8" Needle Nose Plier](#) (1)
 - [T10 Torx Screwdriver](#) (1)
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Step 1 — Stand



- Unplug the AC power connection cable.

Step 2



- Place your thumb and forefinger on the blood pressure (NIBP) hose connector. Squeeze the side tabs until the connector releases.
- ⚠ Always grasp the hose by the connector. Do not pull on the hose itself.
- Pull the connector away from the connector port.

Step 3



- Place your thumb and forefinger on the Pulse oximetry (SpO2 or combined SpO2/SpHb) cable connector. Squeeze the side tabs until the connector releases.
 Always grasp the cable by the connector. Do not pull on the cable itself.
- Pull the connector away from the connector port.

Step 4



- Grasp the temperature probe and pull it up to remove it from the monitor.

Step 5



- Remove the cover of the temperature module by pressing the tab and sliding the cover to the right.

Step 6



- Depress the spring tab on the temperature probe cable connector and withdraw it from the probe port.

Step 7



- Remove the flathead screw on the USB networking door.
- Loosen the captive Phillips #2 screw securing the monitor to the stand.

Step 8



- Holding the monitor securely, open the USB networking door.
- ⓘ You may have to lift the monitor slightly to allow the door to swing out from the stand mount.

Step 9



- Detach any accessory USB cables from USB ports on the monitor.

Step 10



- Slide the monitor off of the stand tray.

Step 11 — Battery



i Place the monitor upside down on a clean surface.

- Insert a coin into the slot and push to open.

i Choose a coin that fits comfortably into the slot.

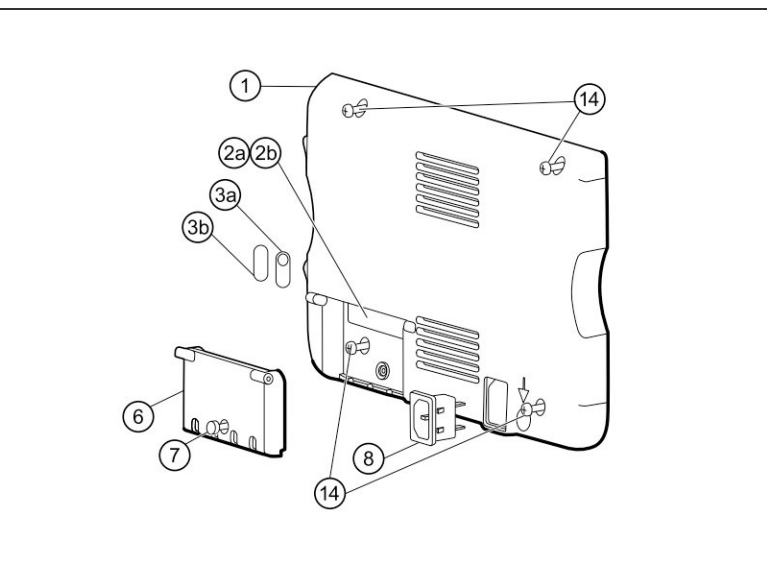
- Remove the battery cover.

Step 12



- Use the plastic label to remove the battery from its recess.

Step 13 — Rear Housing



- ⓘ Open the communications door to access the lower left-hand rear housing screw.
- Remove the four Phillips #2 screws (labeled 14 in the service manual) from the rear housing.

Step 14



- With the handle/alert bar facing you, begin to lift the rear housing from the left side, holding the right side securely.

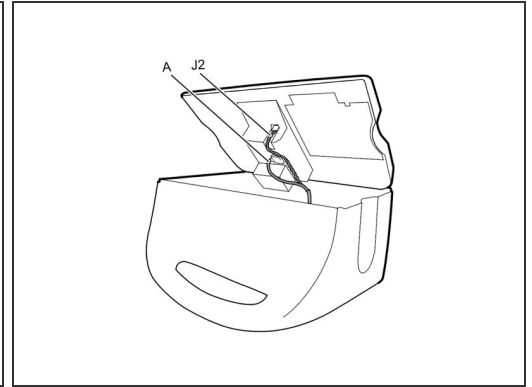
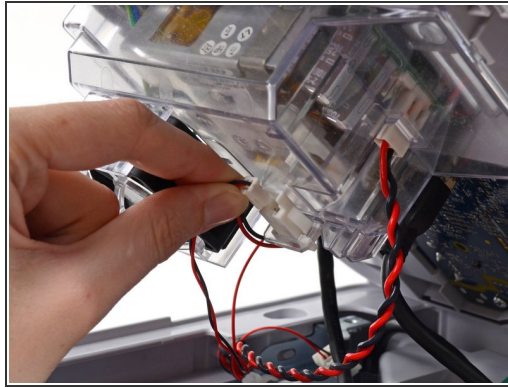
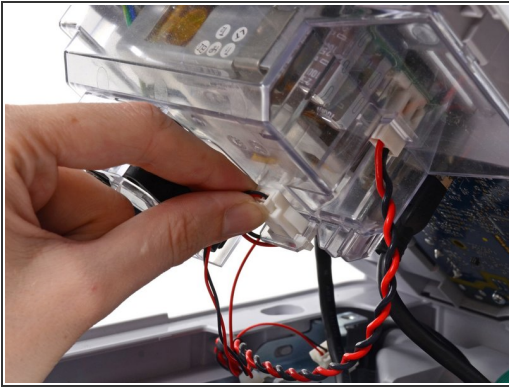
 **Do not** attempt to separate the rear housing from the monitor, it is still attached with several cables.

Step 15



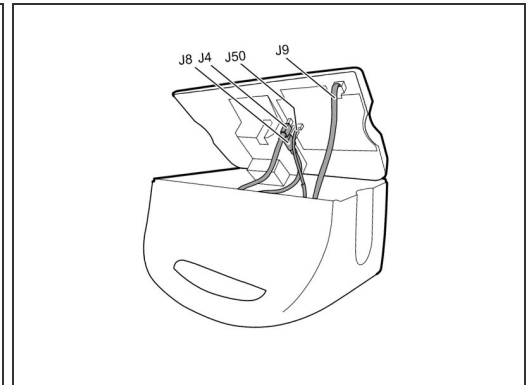
- ① Support the rear housing while you disconnect the cables in the following steps.

Step 16



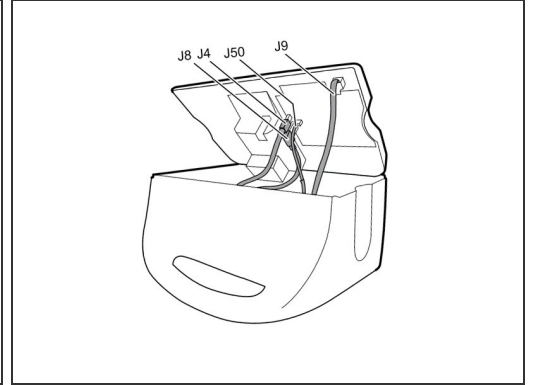
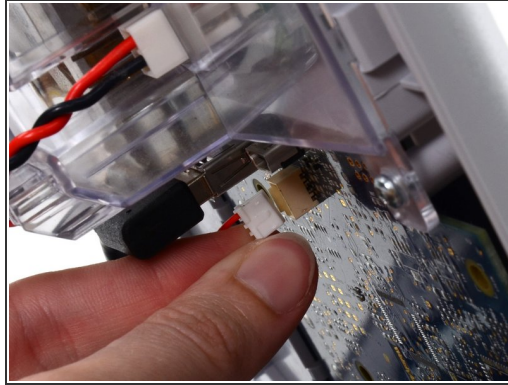
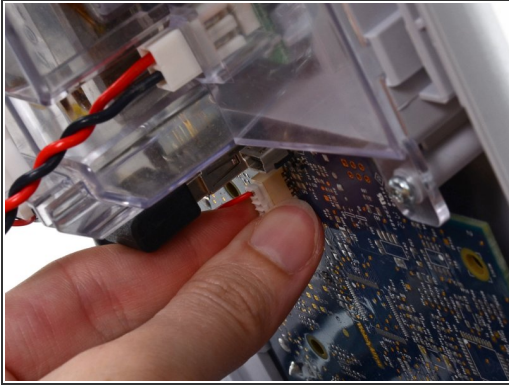
- Disconnect the fan cable (labeled connector A in the service manual) from its socket in the power supply.

Step 17



- Unplug the small USB connector from its socket (labeled J4 in the service manual).

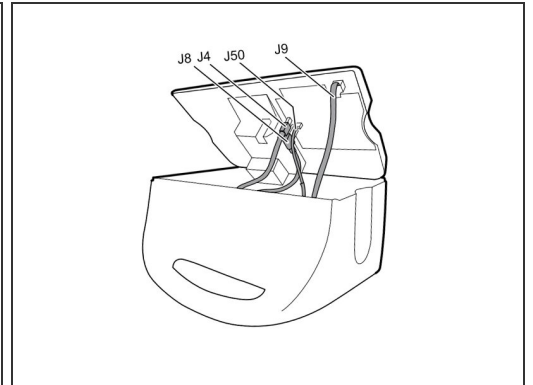
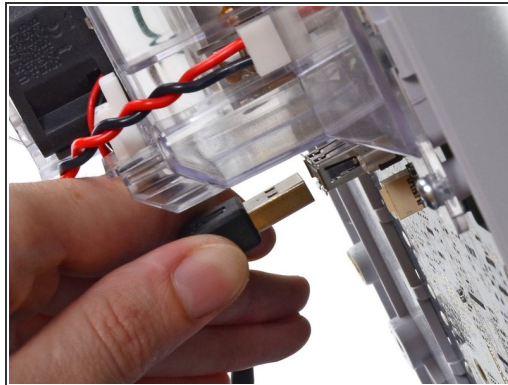
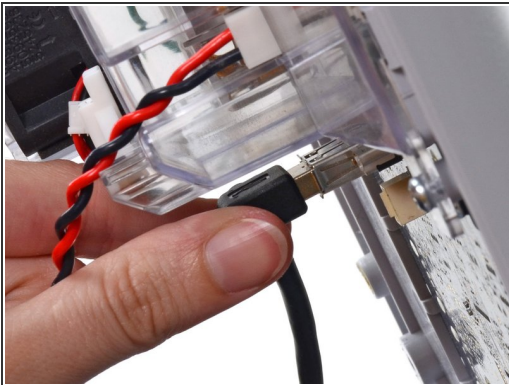
Step 18



- Disconnect the communications power cable from its socket (labeled J50 in the service manual).

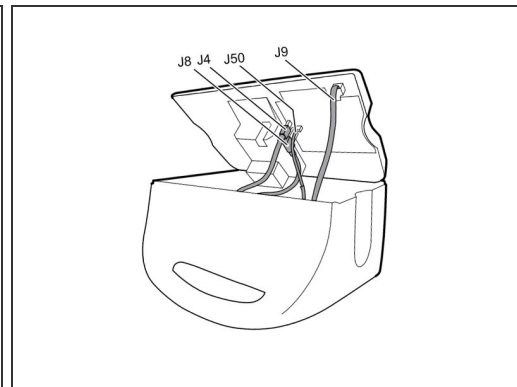
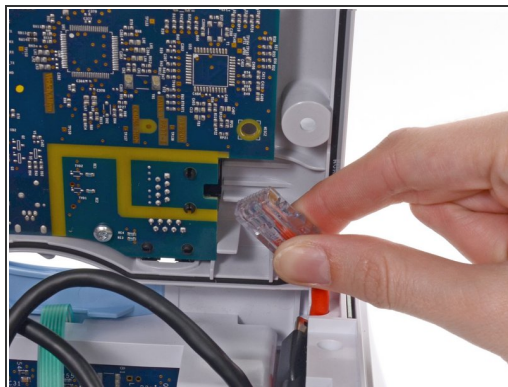
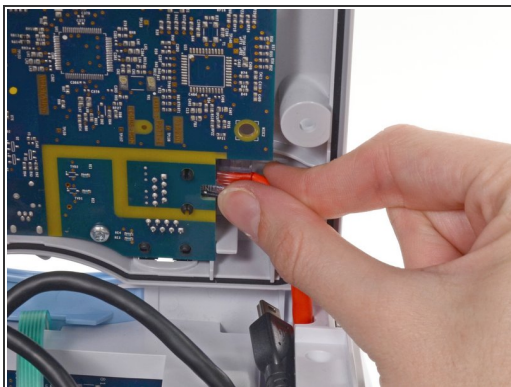
 **Only** pull on the connector itself and not the socket. This connection is very tight, work the connector slowly and gently.

Step 19



- Unplug the large USB connector from its socket (labeled J8 in the service manual).

Step 20



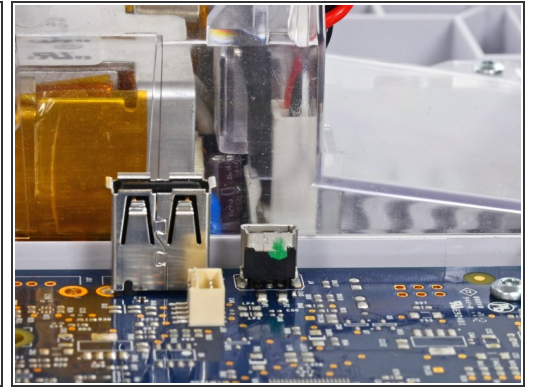
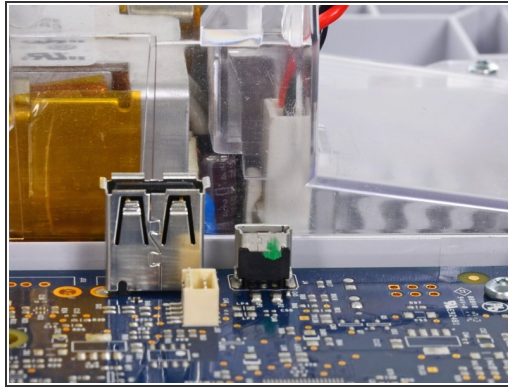
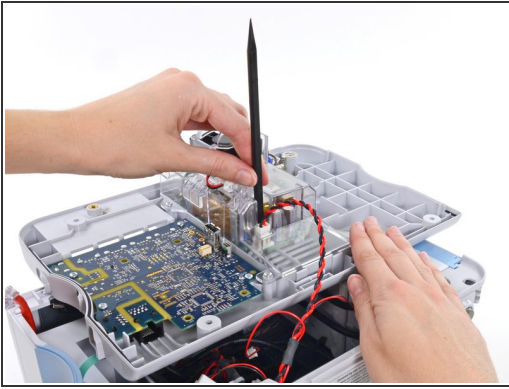
- Press the tab on the ethernet cable and unplug it from its socket (labeled J9 in the service manual).

Step 21



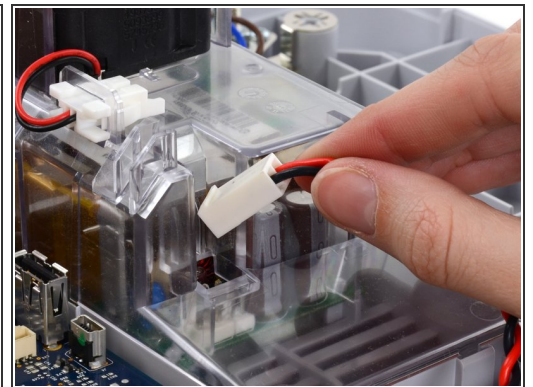
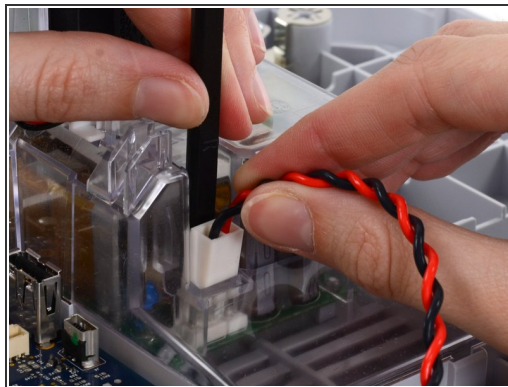
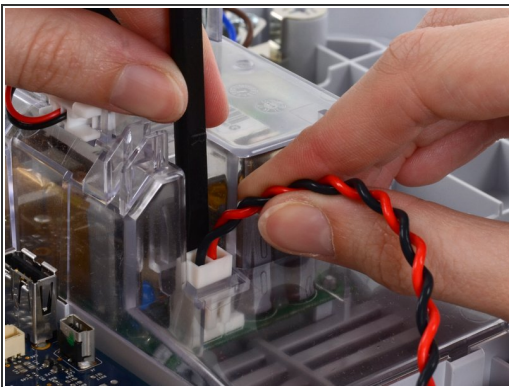
- ⓘ The following connector requires two hands to disconnect. Flip the rear case over, and lay it on its back to gain access to the power supply cable.

Step 22



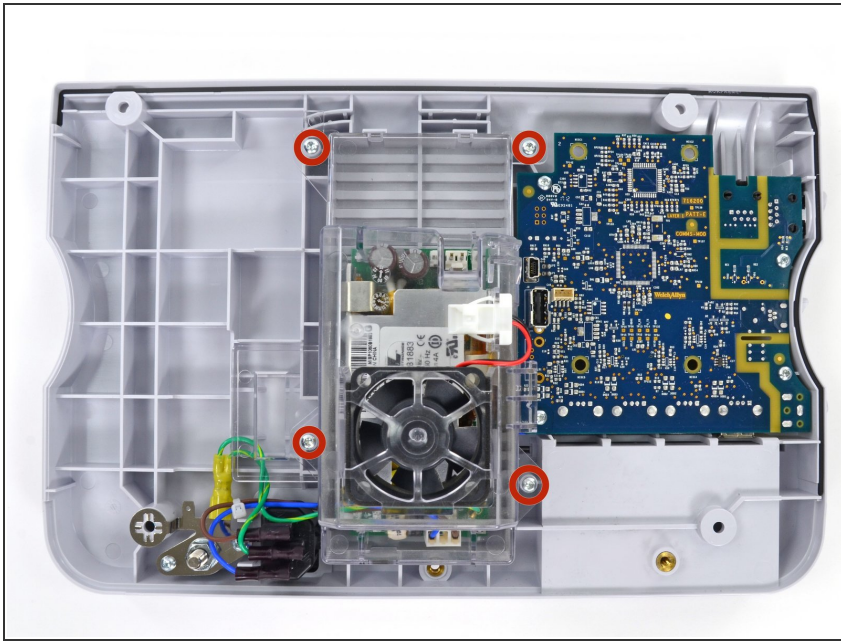
- The power supply cable is secured by an interlocking connector that must be held open to unplug the connector.
- ⓘ Insert the flat end of a spudger down into the power supply cover between the socket clip and the power supply connector.

Step 23



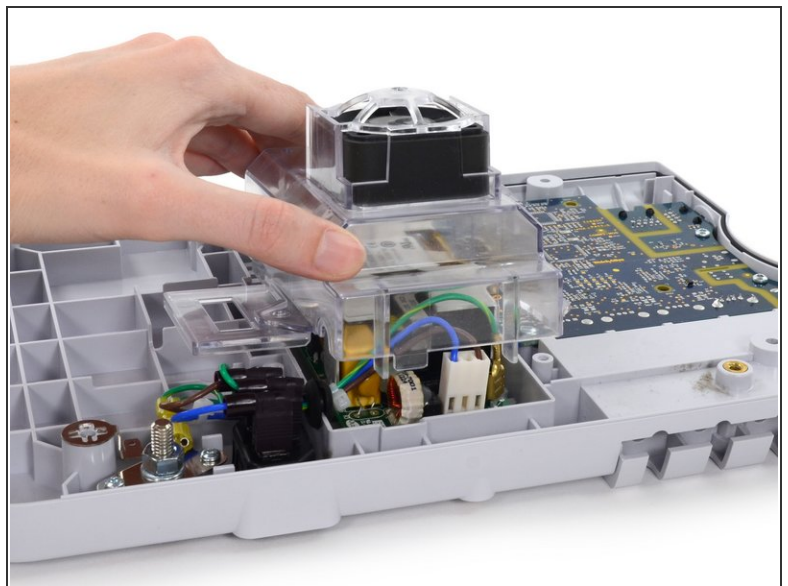
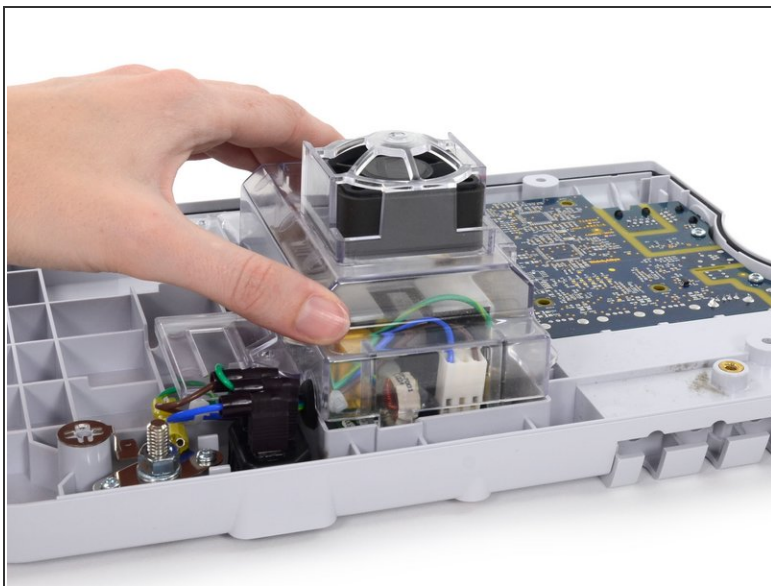
- Grasp the power supply cable firmly and lift both it and the spudger from the channel in the power supply housing to unplug the connector.

Step 24 — Power Supply



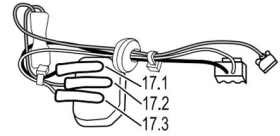
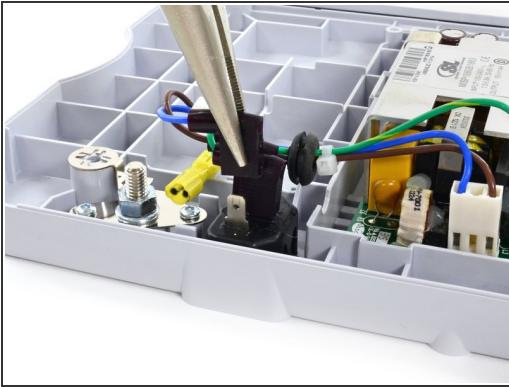
- Remove the four T10 Torx screws from the power supply cover.

Step 25



- Remove the power supply cover.

Step 26

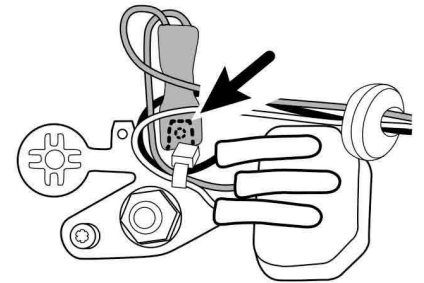


No.	Item
17.1	Brown
17.2	Green
17.3	Blue

- Unplug the AC power harness connectors from the IEC connector with a pair of pliers.

☑ During reassembly connect green to ground, blue to line (L), and brown to neutral (N).

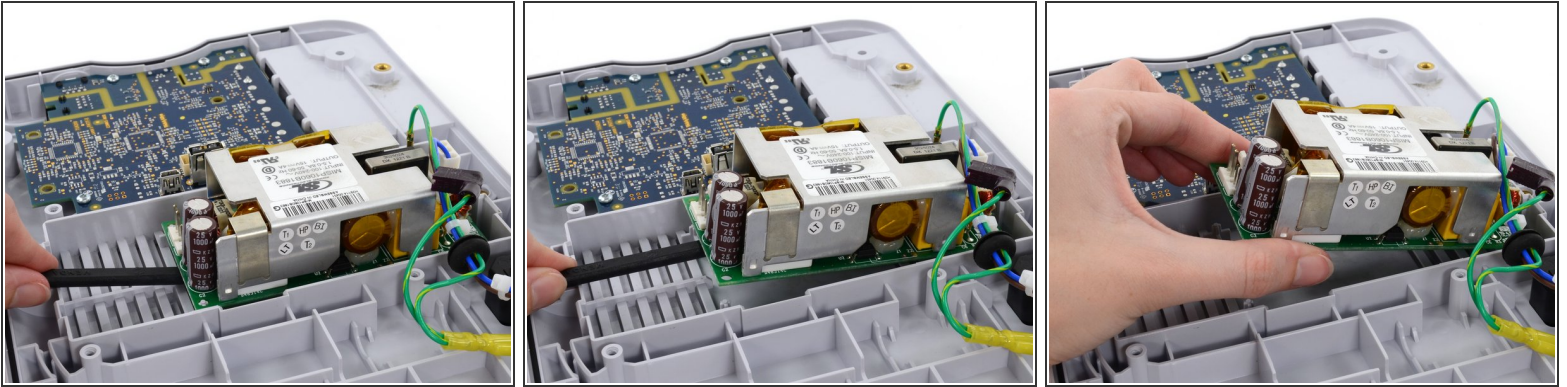
Step 27



- Disconnect the ground connector from the ground plate.

☑ During reassembly plug the ground cable from the IEC connector onto the ground plate in the position closest to the IEC connector. Ensure that the green ground wires are routed over the blue and brown wires.

Step 28



- Use the flat end of a spudger to lift the power supply up off the posts in the rear housing.
- Lift and remove the power supply from the rear housing.
- ⚠ **Be very careful** not to touch the capacitor leads or any exposed solder joints on the back of the power supply. Only handle the board by the edges.
- ☑ During reassembly ensure that the rubber grommet on the AC power harness is in the slot in the power-supply cover.
- ☑ Ensure that the green ground wires are secured under the power-supply cover.

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