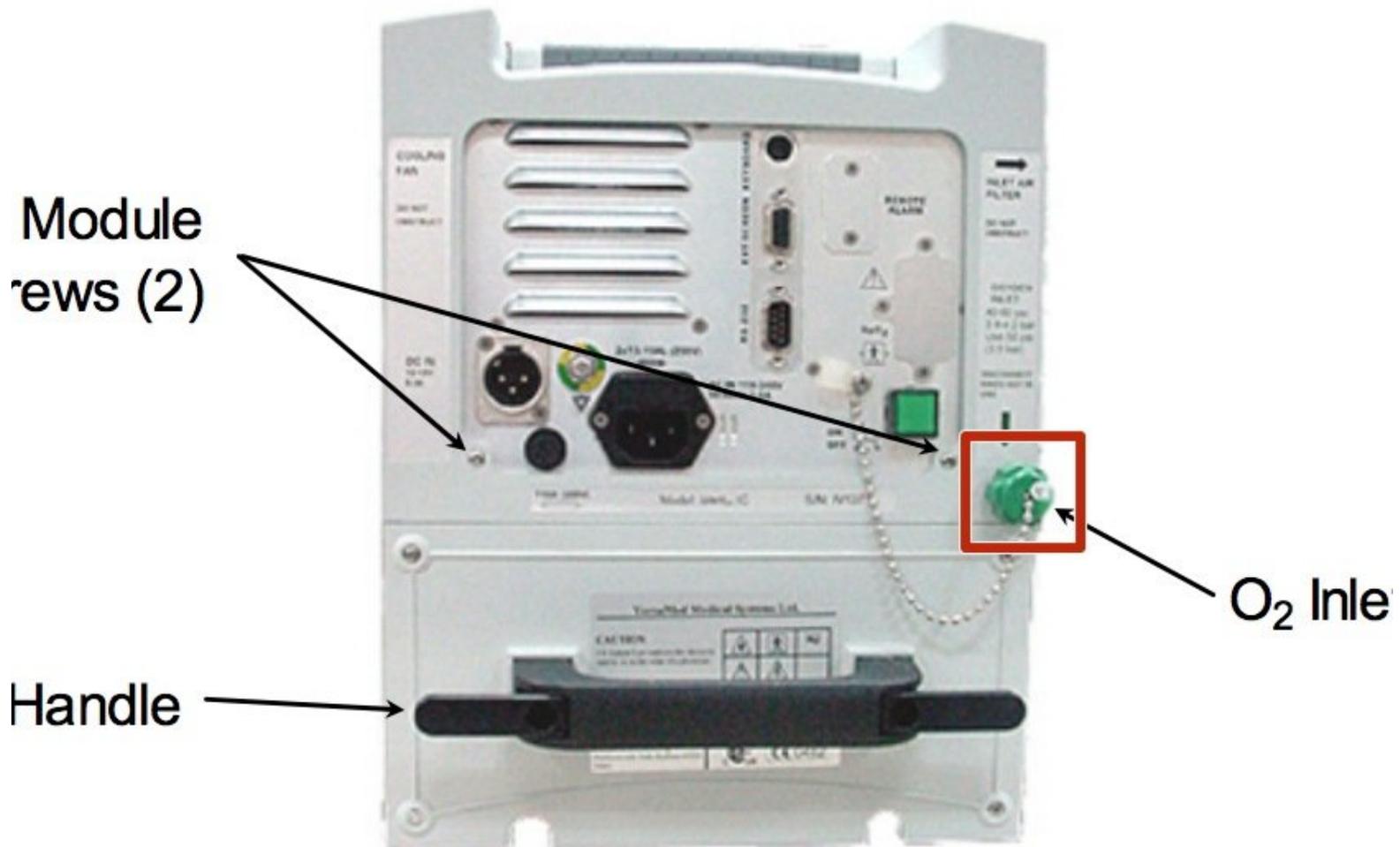




VersaMed iVent 201 Electronic Module Replacement

How to replace the electronic module in a VersaMed iVent 201

Written By: Miriam Miller



INTRODUCTION

This guide provides detailed steps on replacing your device's electronic module. For more information on replacing the electronic module, please refer to **page 59** in the service manual.

TOOLS:

- [Phillips #2 Screwdriver](#) (1)
-

Step 1 — Tools and equipment



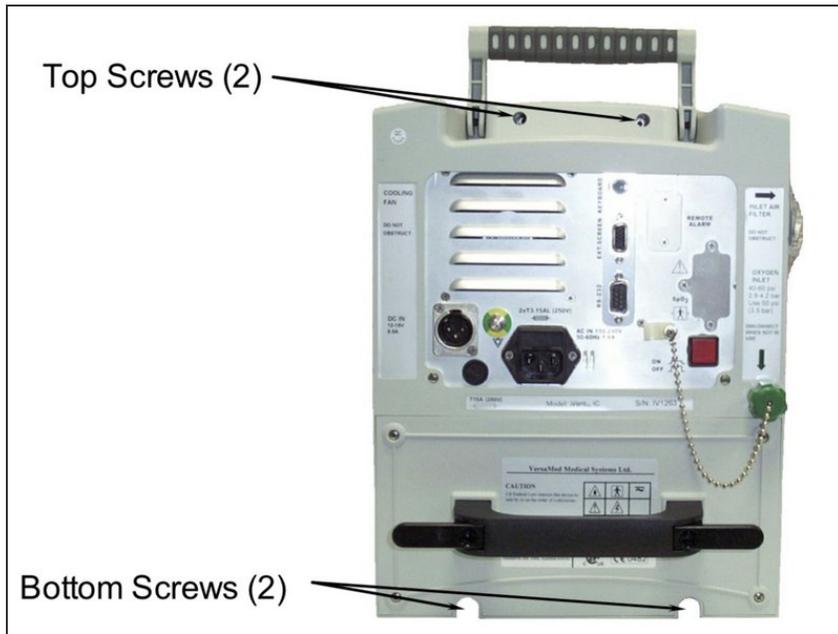
- Screwdriver, Phillips, #1
- Hex Key, 3mm, 9 inch length
- Nutdriver, 7mm
- Pliers, needle-nosed

Step 2 — Enclosure Disassembly 1



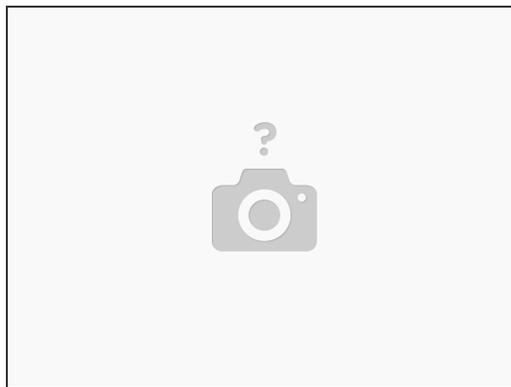
- Place the ventilator, face down, on an appropriate protective surface. (The foam inserts from the original iVent201 shipping carton are well suited for this purpose).
- Detach the roll stand adapter plate from the bottom of the unit by removing the (4) 3mm x 8mm Phillips head screws and lock washers.

Step 3 — Enclosure Disassembly 2



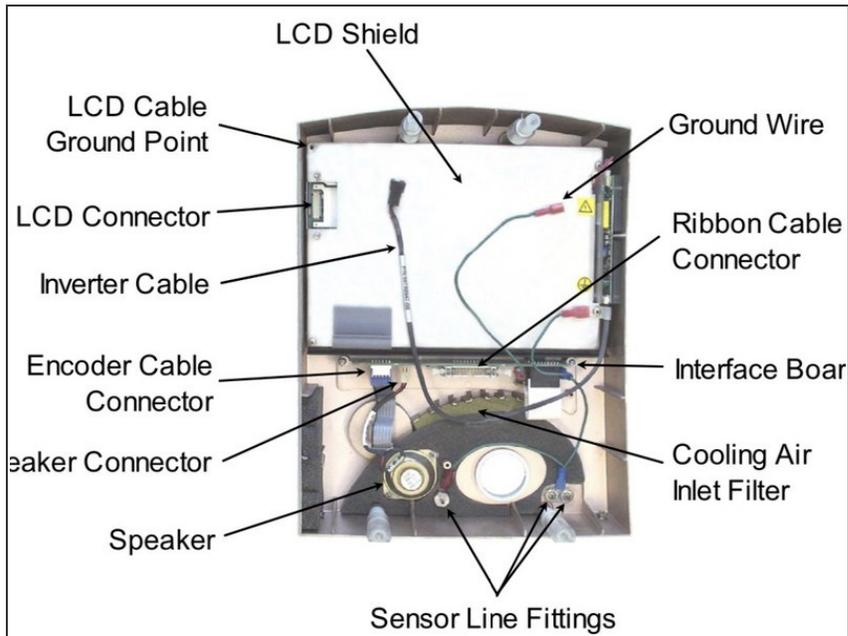
- Use the hex key to remove the (2) 4mm x 30mm screws and washers from the bottom-rear of the enclosure
- Lift the ventilator carrying handle and use the hex key to remove the (2) 4mm x 50mm screws and washers from the top-rear of the enclosure

Step 4 — Enclosure Disassembly 3



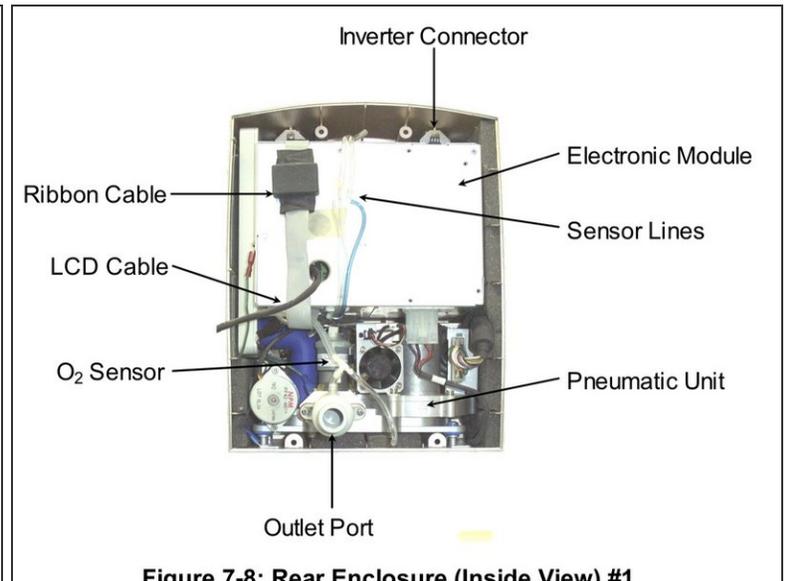
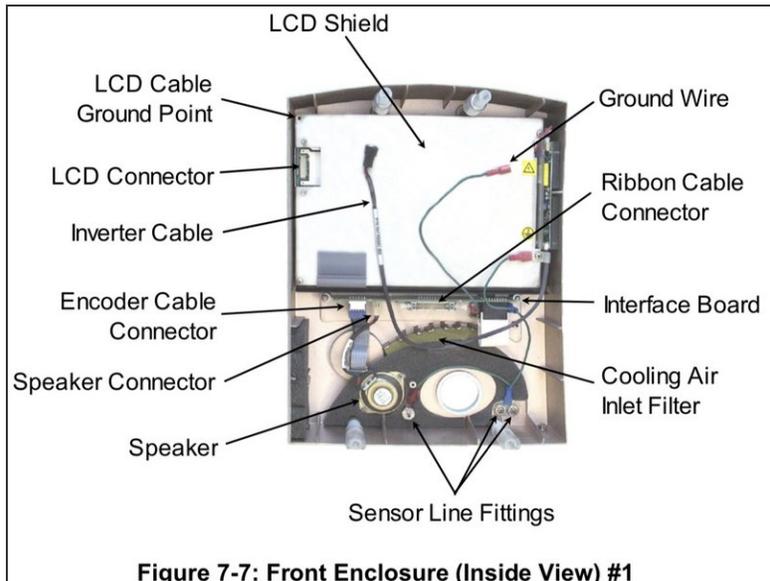
- Stand the unit back to an upright position and pull the front enclosure apart from the rear enclosure approximately 4 inches.

Step 5 — Enclosure Disassembly 4



- Disconnect the three tubes from the barbed fittings along the bottom of the inside of the front enclosure. Be sure to note where they were connected.

Step 6 — Enclosure Disassembly 5



- Disconnect the ribbon cable from the interface PC board located in the middle of the front enclosure.
- Disconnect the green ground wire and receptacle from the pneumatic unit (just above the outlet port).
- Disconnect the inverter cable from the top of the electronic module.
- With the LCD cable still tethered, lay the front enclosure, face down, on the protective surface.
- *It is best to orient the front enclosure so that it is facing you, upside down with the tethered LCD cable towards the right*
- Detach the green LCD cable ground wire from the LCD shield by removing the (1) 3mm x 14mm Phillips head screw and lock washer located in the corner near the LCD connector.
- Use the nutdriver to remove the (2) 4mm lock nuts from the LCD connector location on the front enclosure. Remove the aluminum U-shaped bracket from the LCD connector site and pull out the LCD connector and cable.
- Remove the aluminum U-shaped bracket from the LCD connector site and pull out the LCD connector and cable.

Step 7 — Enclosure Assembly 1



- Position the front enclosure face down on a protective surface so that it is upside down and to the left of the rear enclosure assembly.
- Plug in LCD connector/ cable into the connector located through the LCD shield.
- Install the U-shaped aluminum bracket oriented foam side down onto the studs protruding from the LCD shield.
- Thread the (2) 4mm lock nuts onto the studs. While pressing down on the center of the bracket, tighten both lock nuts.
- Attach the green LCD ground wire to the corner of the LCD shield with the (1) 3mm x 14mm Phillips head screw and lock washer.
- Position the front enclosure standing up so that it is approximately 4 inches from the rear enclosure.
- Connect the inverter cable to the top of the electronic module.
- Connect the ribbon cable (from the bottom of the electronic module) to the interface PC board located in the middle of the front enclosure. Verify that the connector's side retaining clips are snapped into place.

Step 8 — Enclosure Assembly 2



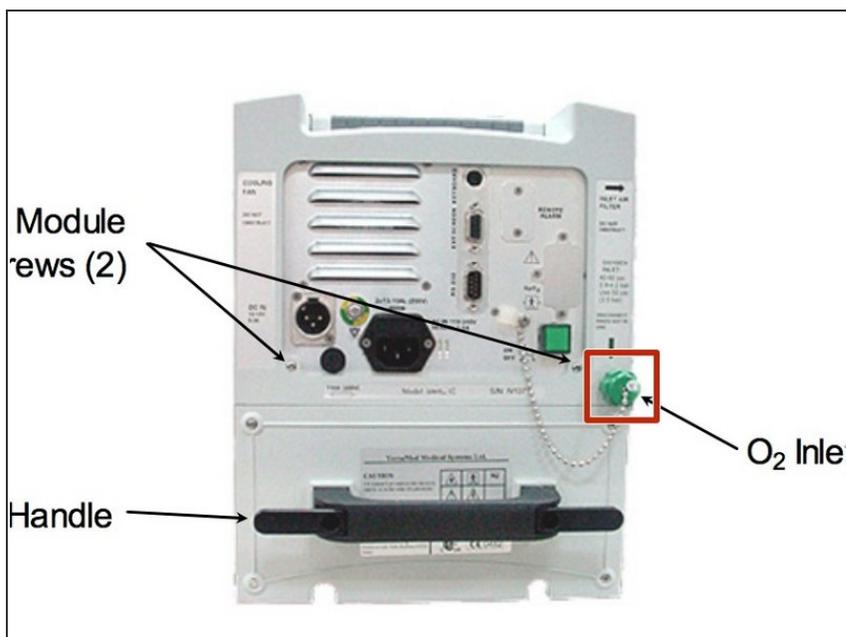
- Connect the ground cable to the spade terminal located just above the outlet port.
- Connect the three (3) tubes to the barbed fittings located along the bottom of the inside of the front enclosure. Be sure to reconnect them to the same locations that they were removed from:
 - The tube from the outlet port tee is connected to the left-most fitting (when viewed from the inside).
 - The blue tube (or tube with a blue stripe) is connected to the right- most fitting.
 - The remaining tube is connected to the last remaining fitting
- Bring the front and rear enclosures together. Orient the tubing and cables so that none are kinked or crimped.
- Place the unit, face down, on the protective surface.

Step 9 — Enclosure assembly 3



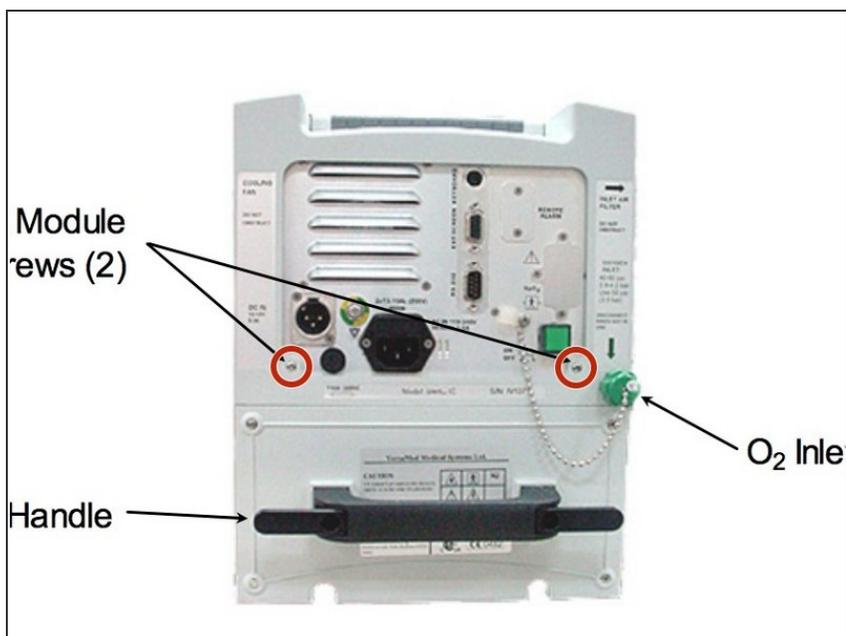
- *Under the weight of the rear enclosure (and assembly), the seam around the entire perimeter of the unit should be closed and even. If it is not, then there is interference from the tubes and/or cables that were just connected.*
- Install the (2) 4mm x 30mm screws and lock washers to the bottom-rear of the enclosure.
- Install the (2) 4mm x 50mm screws and lock washers to the top-rear of the enclosure.
- Attach the roll stand adapter plate to the bottom of the unit by installing the (4) 3mm x 8mm Phillips head screws and lock washers. Be sure to orient the plate so that the single middle hole is toward the rear of the unit.

Step 10 — Electronic Module



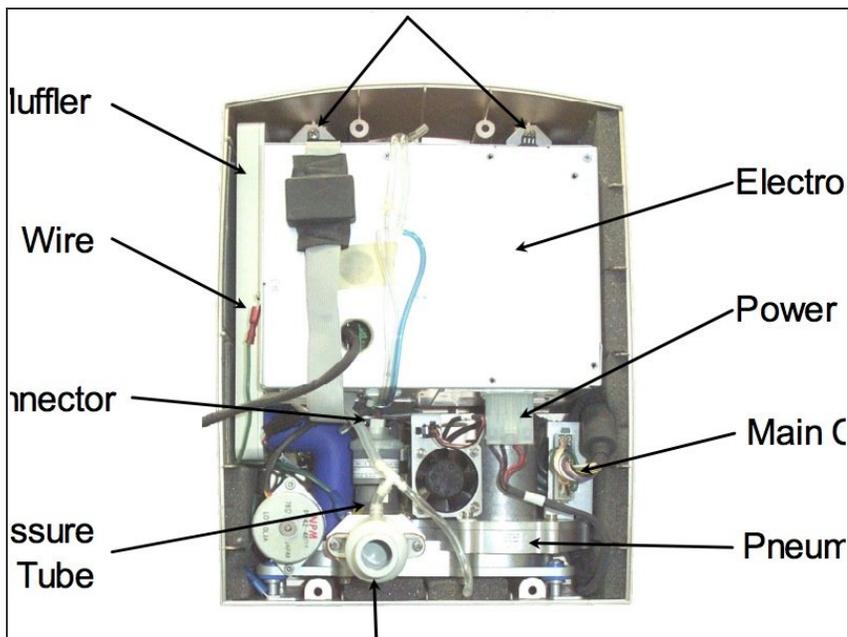
- Unscrew the green oxygen inlet cap found on the back of the device.

Step 11



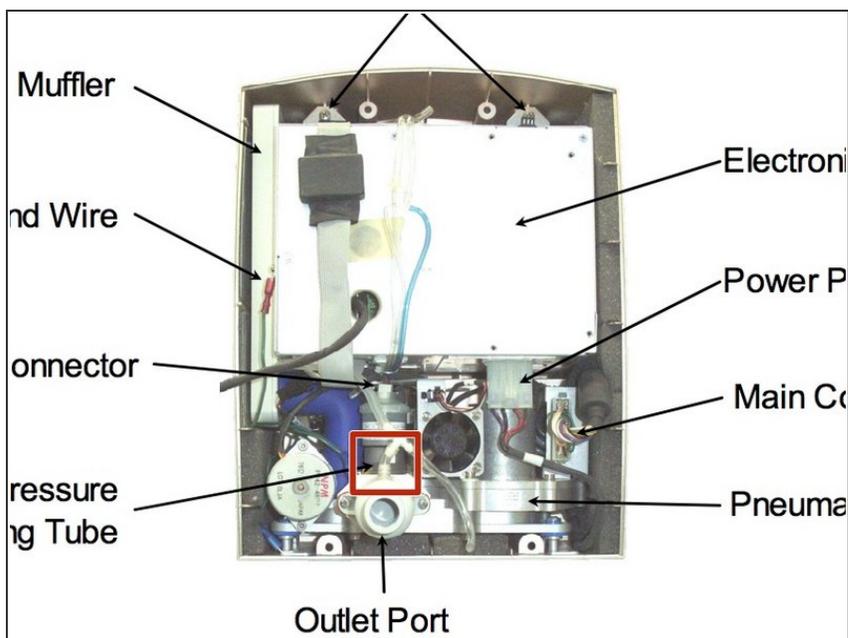
- Remove the two 3mm screws found on the back of the device with a Phillips Head screwdriver.

Step 12



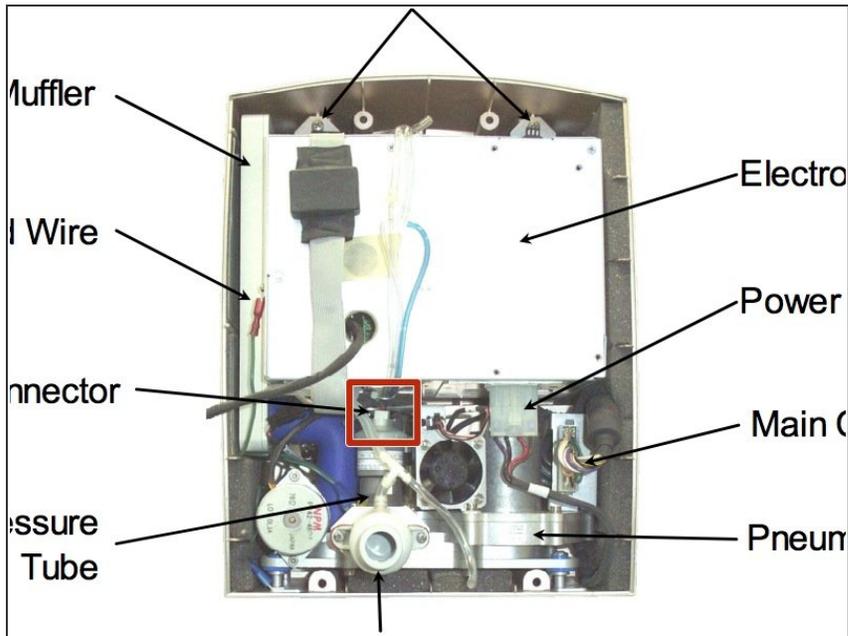
- Disconnect the green ground wire found on the white Electronic Module.

Step 13



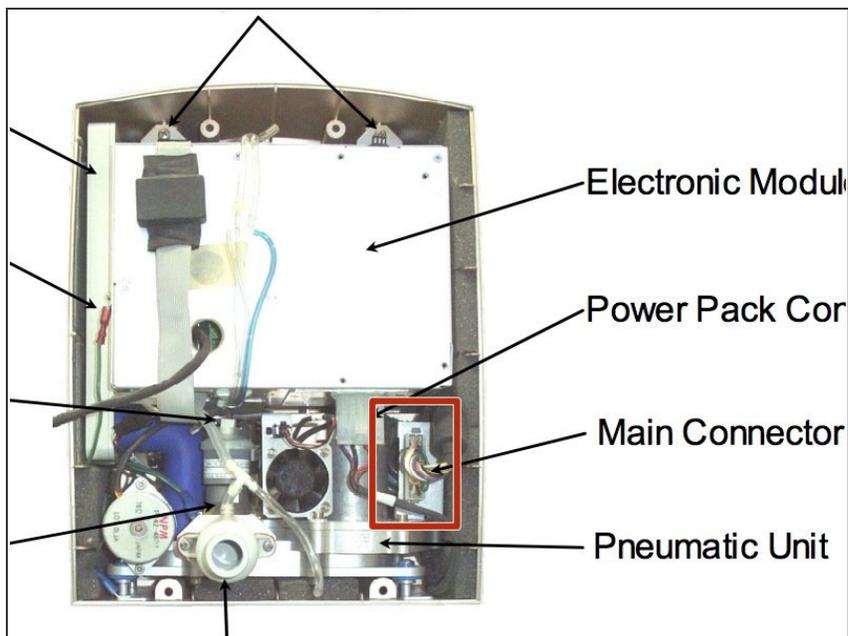
- Disconnect the tube connected to the top of the circular outlet port.

Step 14



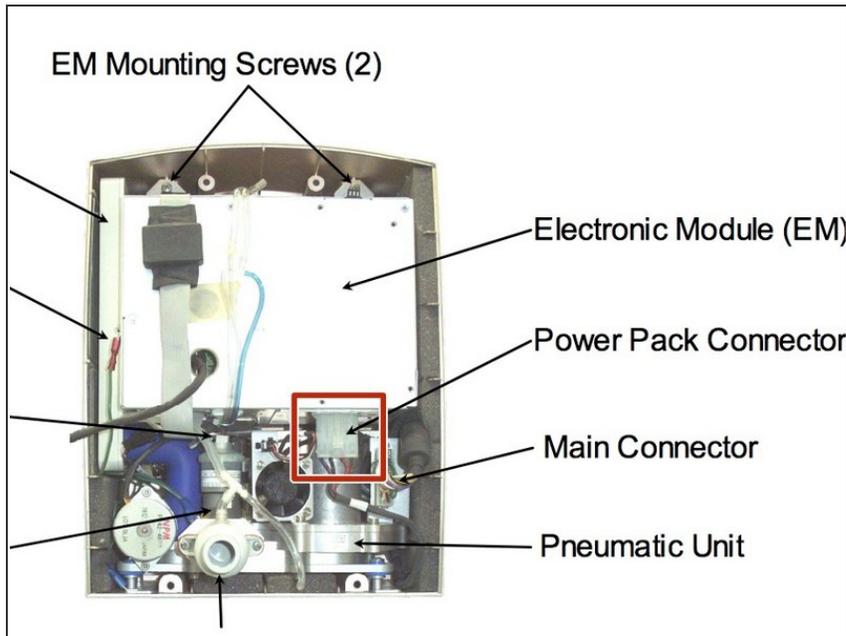
- Disconnect the white connector found on top of the oxygen sensor.

Step 15



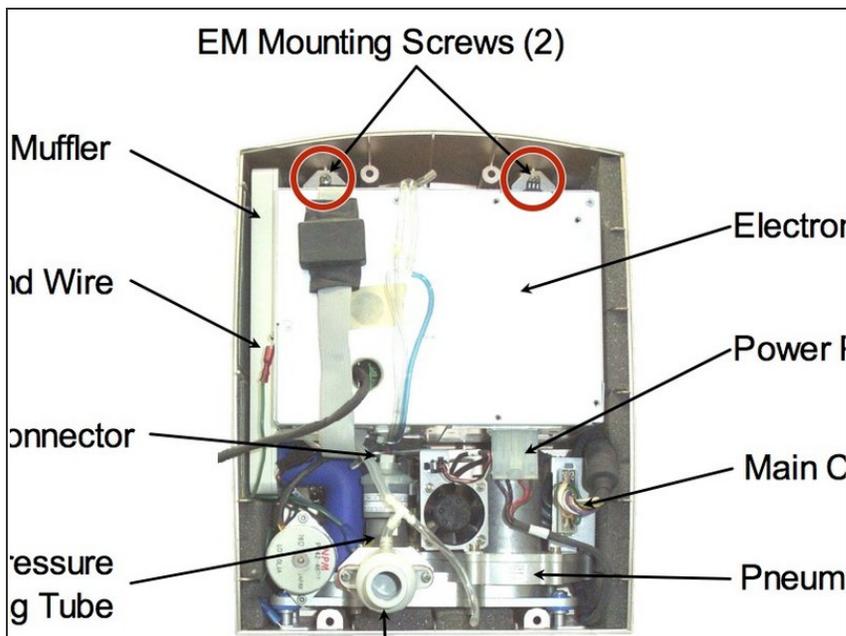
- Remove the main connector on the right side of the device by applying pressure with a squeeze to the sides and pulling straight out.

Step 16



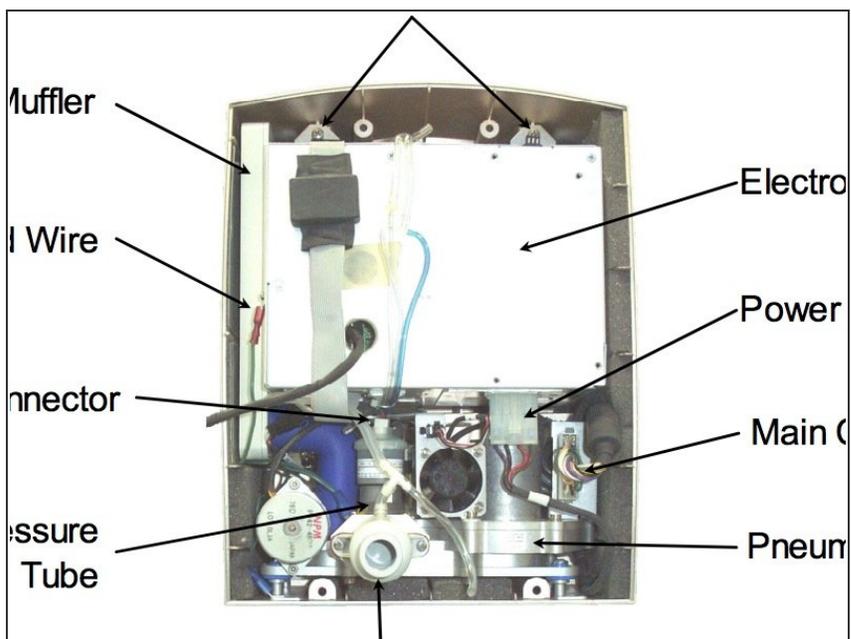
- Disconnect the translucent connector below the large white Electronic Module.

Step 17



- Remove the two 4mm screws and washers found on top of the Electronic Module with a Phillips Head screwdriver.

Step 18



- Grab and gently pull the Electronic Module out of the frame from the front.

⚠ Make sure to guide the green oxygen cap and the attached chain through the opening.

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