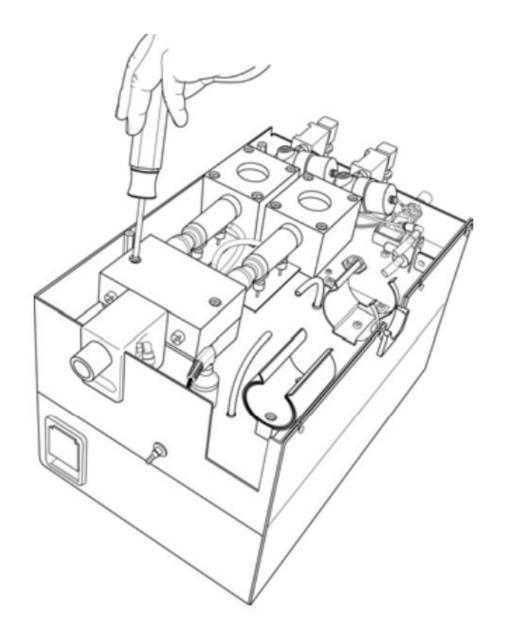


# Newport e500 Air and Oxygen Flow Sensors Disassembly

How to remove the air and oxygen flow sensors in the Newport e500 ventilator.

Written By: Jeremy



#### **INTRODUCTION**

If you need to replace the air and oxygen flow sensors on the newport e500 you will need to start with the prerequisites for this operation. You will need a medium and small sized Philips screwdriver and a torque wrench. For more information refer to page 59 of the service manual.

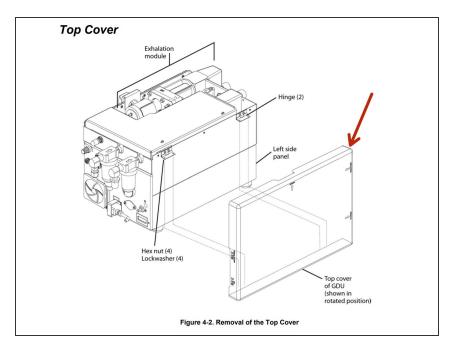
Note: When reinstalling flow sensors, note whether the sensor is labeled for air or oxygen and be sure to install in the appropriate position.



# **TOOLS:**

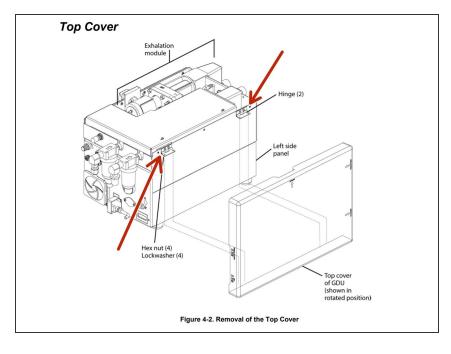
- Phillips #0 Screwdriver (1)
- Torque Wrench (1)

## Step 1 — Newport e500 Top Cover Disassembly



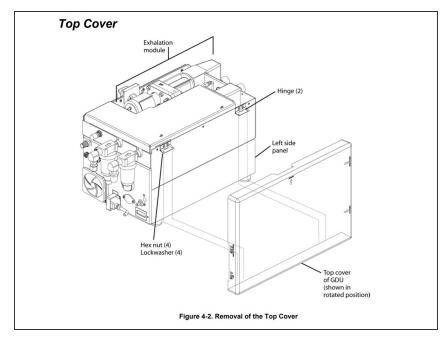
- Place device so that the top cover is facing you.
- Open the top cover.

#### Step 2



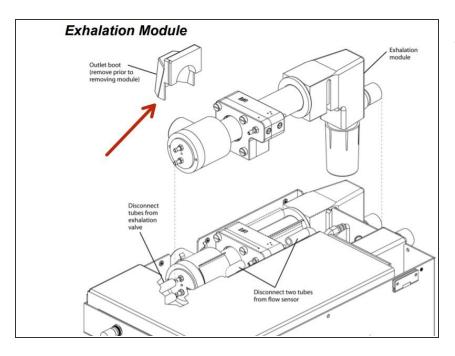
 Remove the four hex nuts and lock washers (two at each hinge) that secure the cover to the hinges on the left side of the pneumatic box.

## Step 3



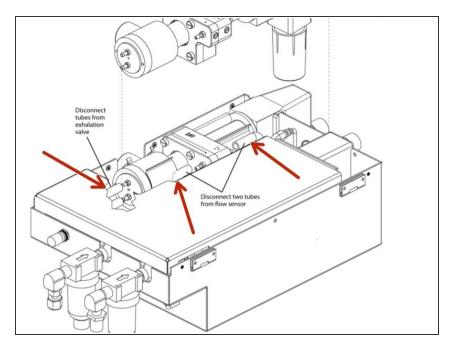
Remove the cover and set aside.
 Retain hardware for re-assembly.

## Step 4 — Newport e500 Exhalation Module Disassembly



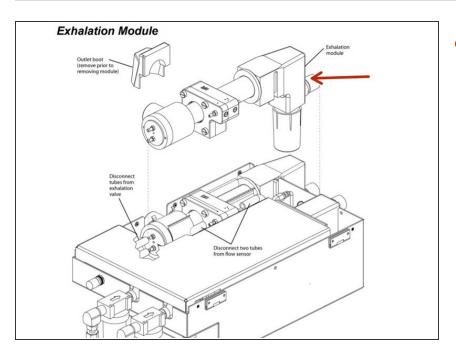
 Pull up and remove the flexible rubber exhalation outlet boot (push fit).

# Step 5



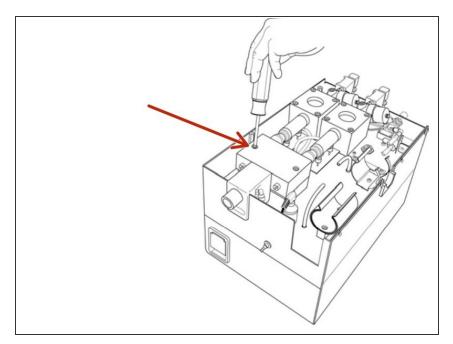
 Disconnect the tubes from both sides of the flow sensor and the two tubes from the exhalation valve.

# Step 6



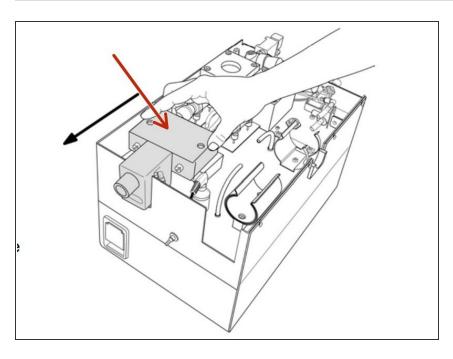
 Pull the exhalation module straight up to remove it from the GDU.

## **Step 7** — Newport e500 Air and Oxygen Flow Sensors Disassembly



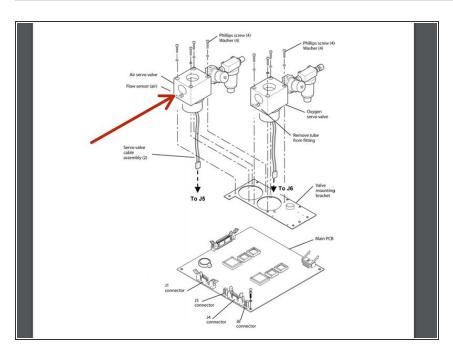
 Remove the 2 screws and washers securing the manifold/mixer assembly

## Step 8



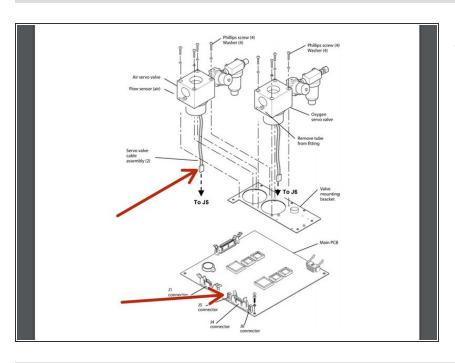
 Slide the manifold/mixer assembly forward to disengage the flow sensors

## Step 9



 Gently pull each flow sensor straight out from the servo valve, (the flow sensor push-fits into the servo valve port).

#### Step 10



 Disconnect the flow sensor cable from its 10 pin connector at the underside of the flow sensor PCB and lift out the flow sensor.

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