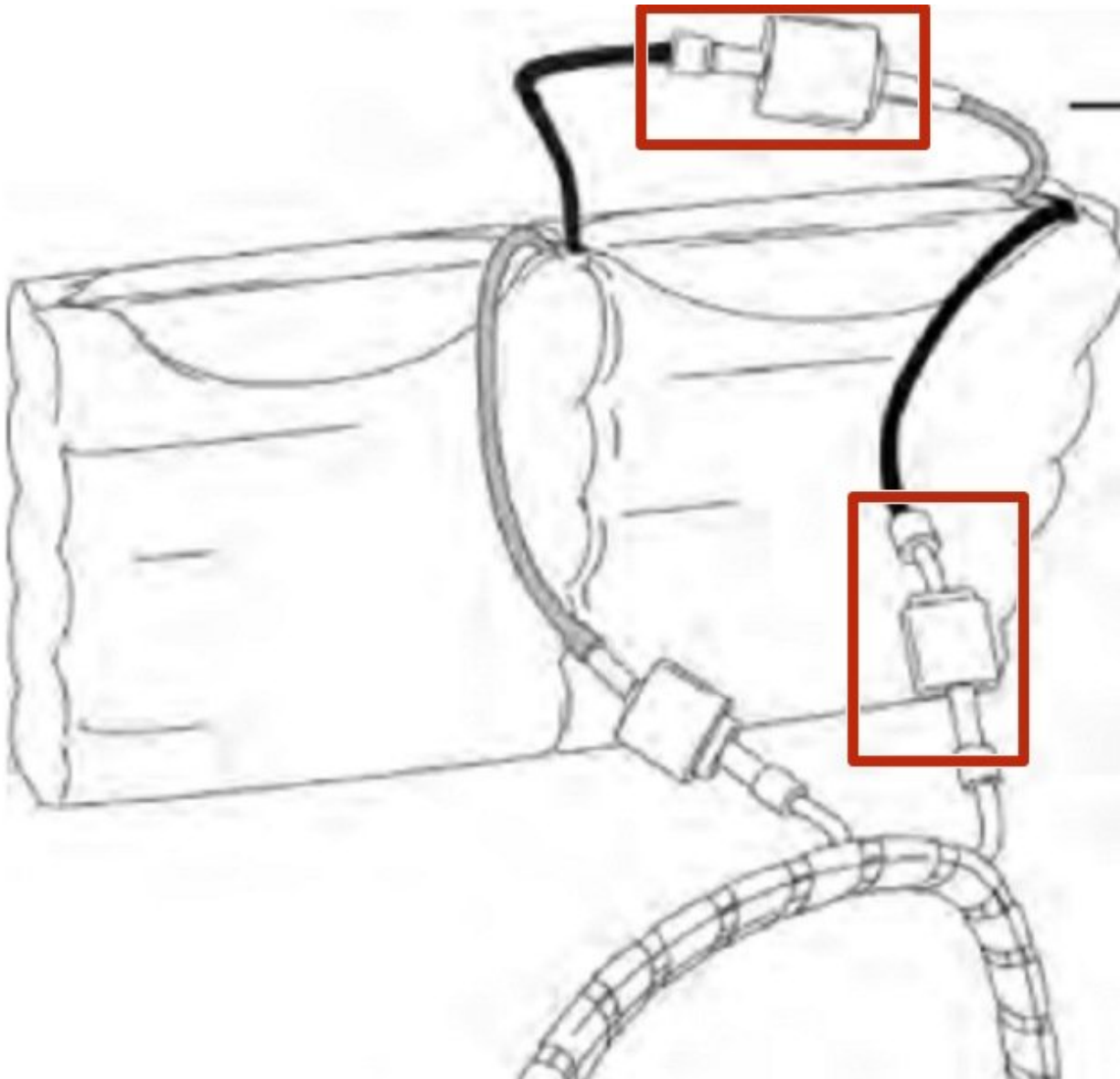




Viasys Avea Battery Replacement

Removing and replacing the battery attached to the Viasys Avea ventilator.

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INTRODUCTION

The battery removal

Removing the Battery is discussed in service manual revision D:

- Chapter 4: Assembly and Disassembly, Pg 60-61

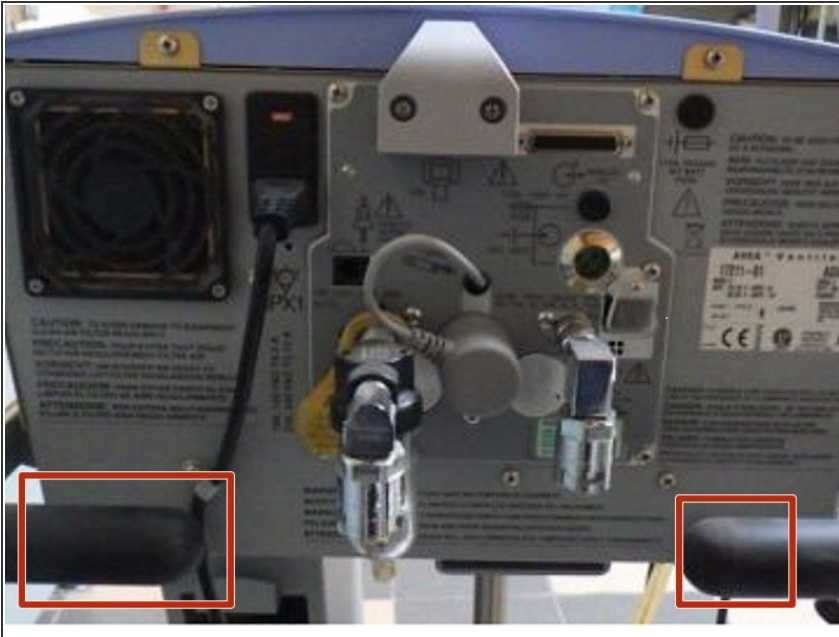
PLEASE NOTE: This repair guide was developed by a student iFixit team based on Viasys/CareFusion's own service manual. Neither iFixit nor this repair guide is endorsed by or affiliated with Viasys or CareFusion.



TOOLS:

- [Phillips #2 Screwdriver](#) (1)
 - [11/32" Nut driver](#) (1)
 - [3/8" Nut Driver](#) (1)
-

Step 1 — Viasys Avea UIM and Plastic Cover Disassembly



- Remove the 'rubber collar' located at the UIM rear neck, by grasping one of the two rubber tabs at the bottom. Pull firmly in an "arcing" motion.

Step 2



- Pull UIM forward and look for the Phillips Screw on the front arm cover. Remove (1) Phillips screw from the front arm cover. Remove the front arm cover.

Step 3



- Remove the two mounting screws now visible inside the 'back arm cover'. Tilt the UIM down and remove the 'back arm cover'.

Step 4



- Remove the (4) 11/32 KEP nuts that secure the 'plastic top cover' opening onto the chassis.
- Remove (2) Phillips screws that secure the 'plastic top cover' to the rear chassis.
- Slide the top 'plastic top cover' upward and forward away from the chassis.

Step 5



- Remove the (2) Phillips screws and washers that secure the HSSC Cable on the GDE. Unplug the HSSC Cable.
- Carefully feed the HSSC Cable through the 'plastic top cover' opening.

Step 6



- While continuously supporting the UIM, remove (4) 3/8 nuts that fasten the UIM support arm onto the pneumatics.
- Lift UIM off of pneumatics and set aside.
- Remove plastic cover and set aside.

Step 7 — Viasys Avea Exhalation Corner Assembly Removal



- Check to see if the exhalation filter assembly is installed, if it is, remove the exhalation filter assembly.
- Rotate the metal locking lever on the lower right of the ventilator body forward to an open position.
- Remove the exhalation filter assembly from the ventilator body by pulling straight down.

Step 8



- Using a long Phillips screwdriver, remove the Phillips screw located at the top of the exhalation filter assembly well, if applicable.

Step 9



- Using a long Phillips screwdriver, remove the Phillips screw located at the exhalation port marked EXH, if applicable.

Step 10



- Using a long Phillips screwdriver, remove the Phillips screw from the outside of the plastic cover.

Step 11



- Using a long Phillips screwdriver, remove the Phillips screw on the front left wall.
- Using a long Phillips screwdriver, remove the Phillips screw on the right side of the wall.
- Set the plastic cover aside.

Step 12



- Using a long Phillips screwdriver, remove the 3 Phillips screws on the metal re-enforcement cover, if applicable, and set aside.
- Remove the Exhalation Corner Assembly.

Step 13 — Viasys Avea Metal Top Cover Disassembly



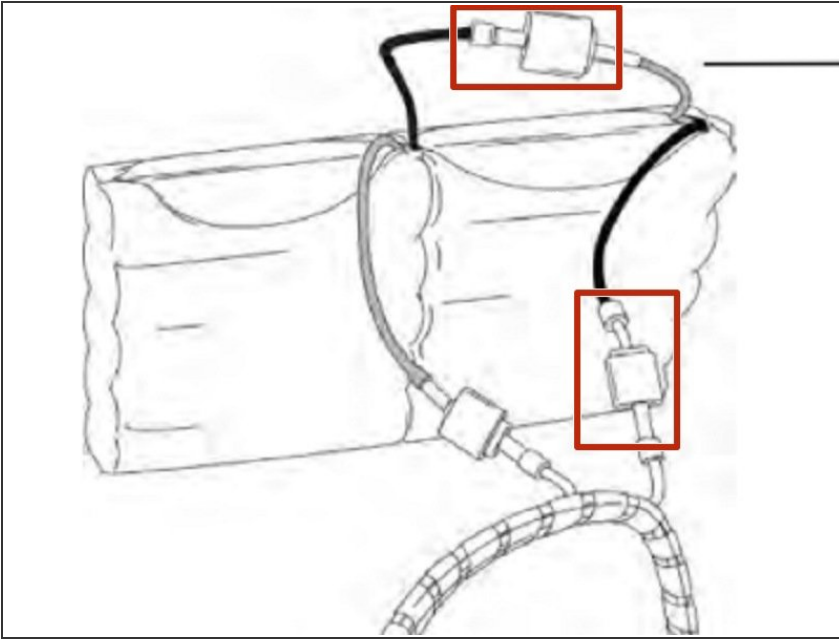
- Locate metal top cover
- Remove the 19 SEMS screws, (3) on the left side (5) on the right side and (11) on top.

Step 14



- Remove metal top cover and set aside.
- Disconnect the internal battery 2 pin Molex connector

Step 15 — Battery



- Disconnect the internal batteries
- Disconnect the battery fuse holder by pulling straight back on the two faston connectors.

Step 16



- Remove the fuse holder and fuse from the ventilator chassis using pliers to remove nut.
- Remove the (3) 11/32 KEPS nuts that hold the battery bracket in place; (2) KEPS nuts on the bottom and (1) on the top.

Step 17



- Slide out the retaining bracket and the batteries.
- Disconnect the positive and negative leads from the wire harness that connects to the driver transition board.

Step 18



- Cut both tie wraps that secure the battery monitor board and the 4-pin molex to the batteries.
- Disconnect the batteries from each other.

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