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Viasys Avea Metal Top Cover Disassembly

Use this guide to remove the top cover of the Viasys Avea ventilator.

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INTRODUCTION

This guide aims to remove the metal top cover of the ventilator.

Removing the Metal top cover is discussed in service manual revision D:
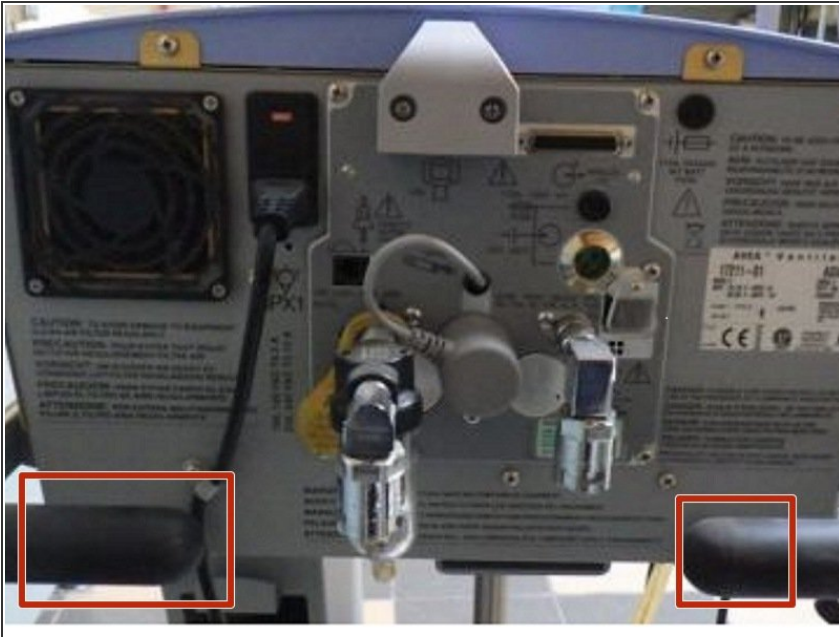
- Chapter 4: Assembly and Disassembly, Pg 52-53

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)

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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.

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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.

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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.

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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.

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Step 11

- Using a long Phillips screwdriver, remove the Phillips screw on the font 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.

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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 sife and (11) on top.

Step 14

- Remove metal top cover and set aside.

- Disconnect the internal battery 2 pin Molex connector

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

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