Philips Respironics V60 Battery Replacement

This guide will show how to replace the internal battery on a Philips Respironics V60 ventilator.

Written By: knipwim

INTRODUCTION

The optional internal backup battery protects the ventilator from low, or failure of, AC power. If AC power fails, the ventilator automatically switches to operation on backup battery with no interruption in ventilation. The battery powers the ventilator until AC power is again adequate or until the battery is depleted. The 4.4-V, 11.5-Ah lithium-ion battery has a run-time of at least six hours under normal conditions.

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

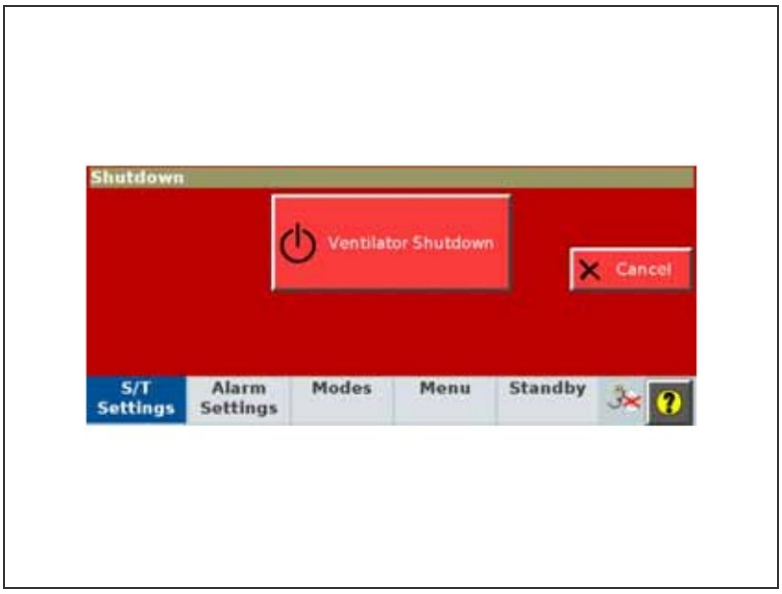
Replacing the battery is discussed in:

- chapter 5-4 “Preparing for ventilation - About the optional backup battery” of user manual
- appendix A-3 “First-time installation - Installing the optional battery” of user manual
- chapter 7.3 “Component Removal/Installation - Internal Battery” of service manual

TOOLS:

- Phillips #2 Screwdriver (1)
- 3mm Hex Key (1)

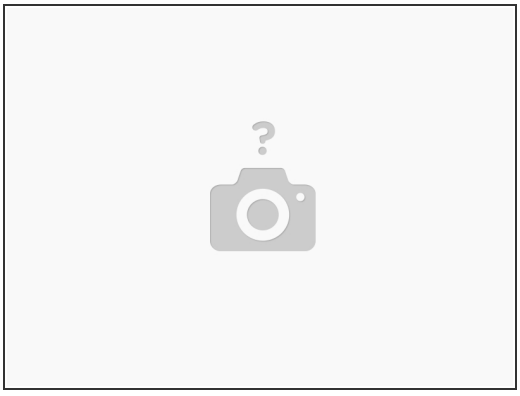
Step 1 — shut down the ventilator



- Press and release the **ON/Shutdown** key, opening the **Shutdown** window in the screen.
- Select **Ventilator Shutdown**, which will shut down the ventilator.

⚠ Improper shutdown may cause a **Power has been restored** message the next time the ventilator is turned on.

Step 2 — disconnect from power

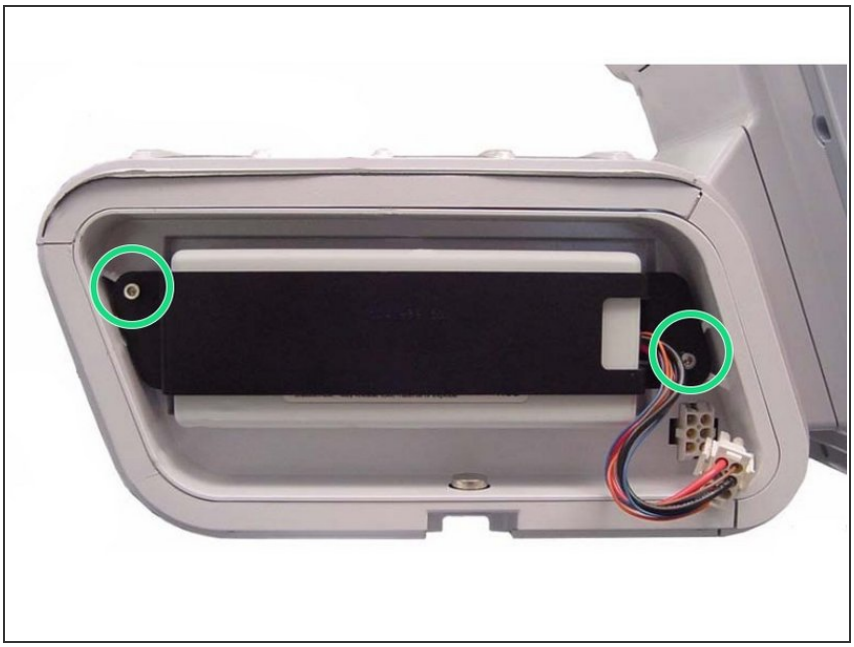


- Disconnect the ventilator from the AC power.

Step 3 — remove side panel

- The battery is located behind the left side panel of the device.
- Remove the side panel by turning the captive Phillips head fastener a 1⁄4 turn and releasing.

Step 4 — loosen battery bracket

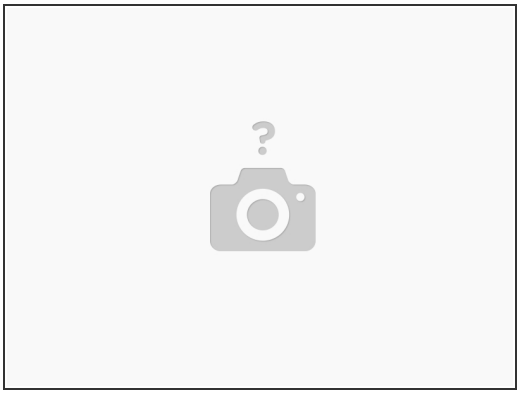


- Using a 3-mm hex wrench, remove the battery bracket by removing two screws.

Step 5 — replace battery

- Disconnect the battery cable by pinching the battery connector and pulling it out.
- Remove the battery and bracket.
- Holding the battery so that the vent hole faces up and the Philips logo faces out, thread the battery cable through the battery bracket. Position and place the battery inside the battery compartment.
- Pinching the end of the battery connector, plug it in so that it locks in place.

Step 6 — adding back covers



- Reinstall the battery bracket by fastening the two screws with the 3mm hex key.
- Reinstall the side panel and secure the fastener with a 1⁄4 turn clockwise.

Step 7 — charging

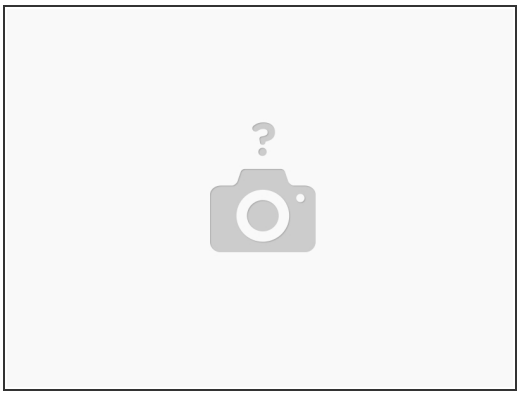
- Connect the ventilator back to the AC power.
- Make sure the battery is properly installed by verifying that the yellow **Battery (charged) LED** on the front panel flashes. The flashing LED indicates the battery is being charged.

A new battery must be charged for at least 5 hours before being placed into service.

The manufacturer recommends that the ventilator's batteries be fully charged before ventilating a patient. If the batteries are not fully charged and AC power fails, always pay close attention to the level of battery charge.

The ventilator charges the battery whenever the ventilator is connected to AC, with or without the ventilator switched on. The **Battery (charged) LED** flashes to show that the battery is being charged.

Step 8 — restarting



- Power on the ventilator with the ON/Shutdown key.
- Run the preoperational check.

⚠ Following battery installation, if a **Check Vent** or **Vent Inoperative** alarm occurs during the preoperational check, discontinue use of the ventilator immediately and contact Respironics. The **Vent Inoperative** alarm occurs if AC power is disconnected and a battery is not installed, or if the battery is fully discharged.