

Hamilton Galileo Ventilator Power Supply Replacement

Utilize this guide to replace the power supply....

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...at the points shown in figure 11-199.

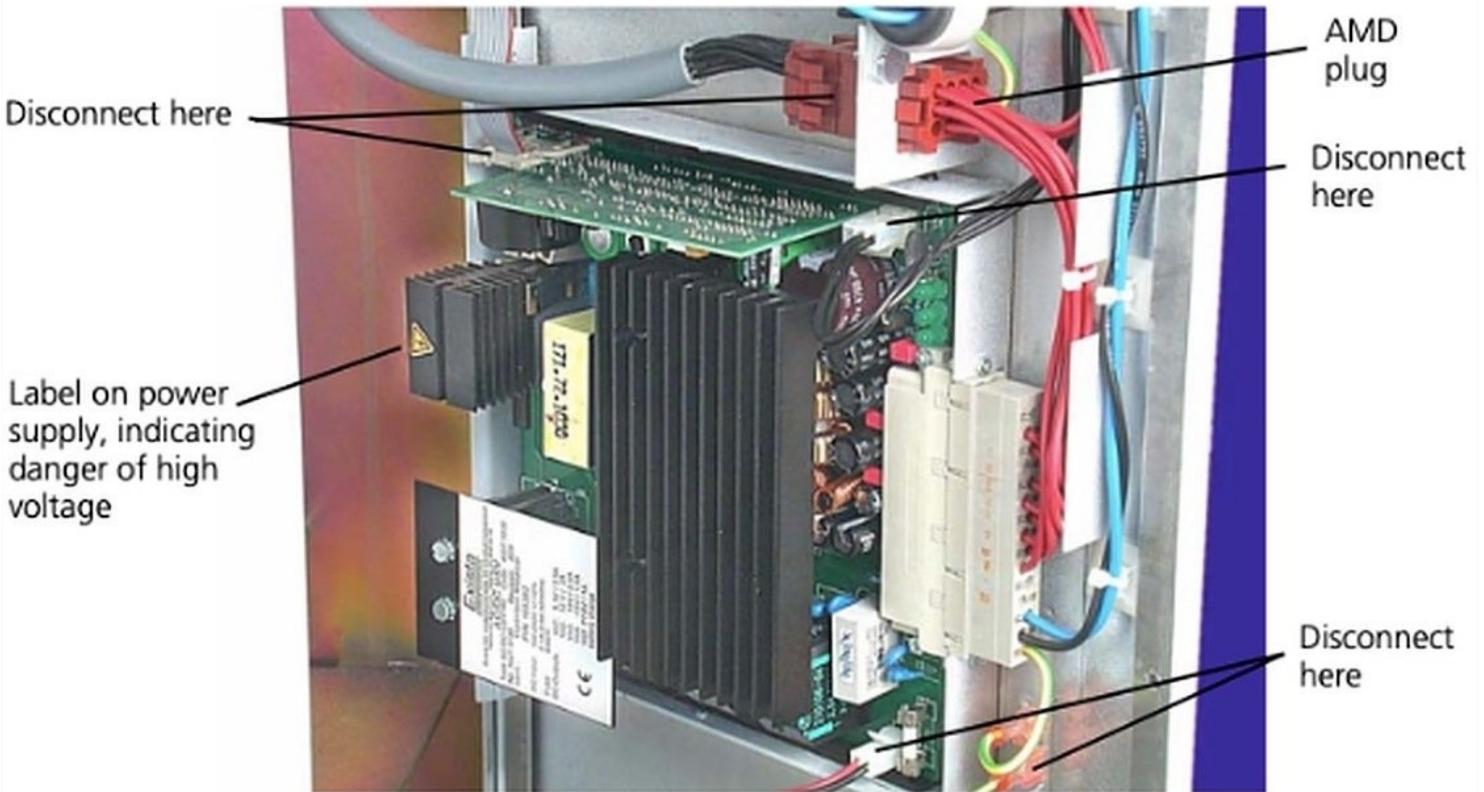


Figure 11-199. Cable connections you must remove

INTRODUCTION

Utilize this guide to replace the power supply. This guide requires access to the column, so you will need to view the “Opening the Column” guide as well. For more information on replacing the power supply, please refer to **page 11-179** in the full service manual.

TOOLS:

[Metric Allen Key Set](#) (1)

[Pro Tech Toolkit](#) (1)

Step 1 — Opening the Column in the Hamilton Galileo

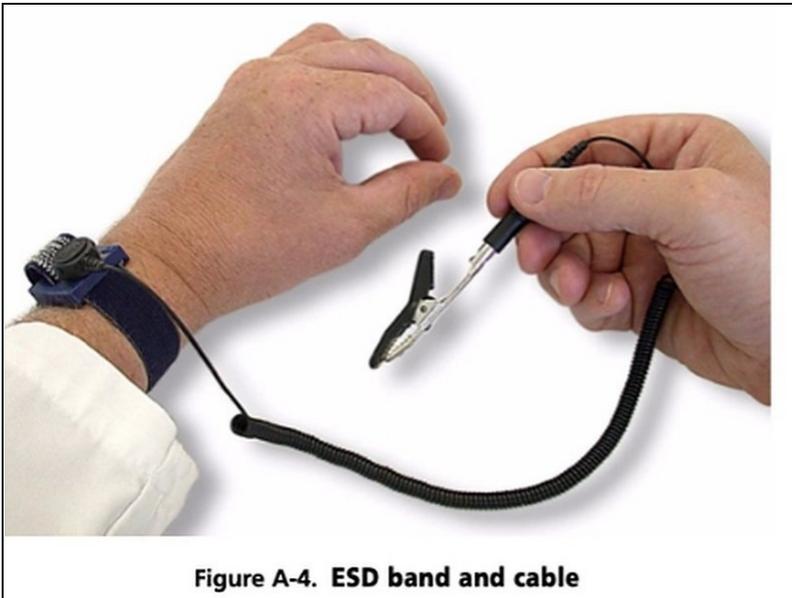
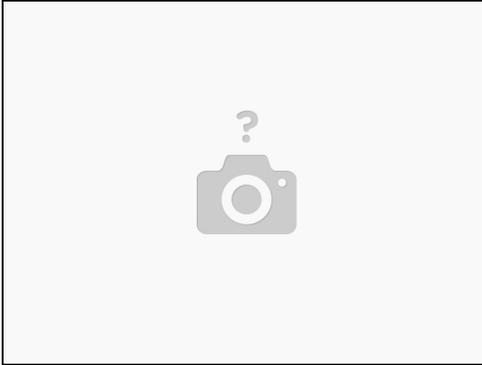


Figure A-4. ESD band and cable

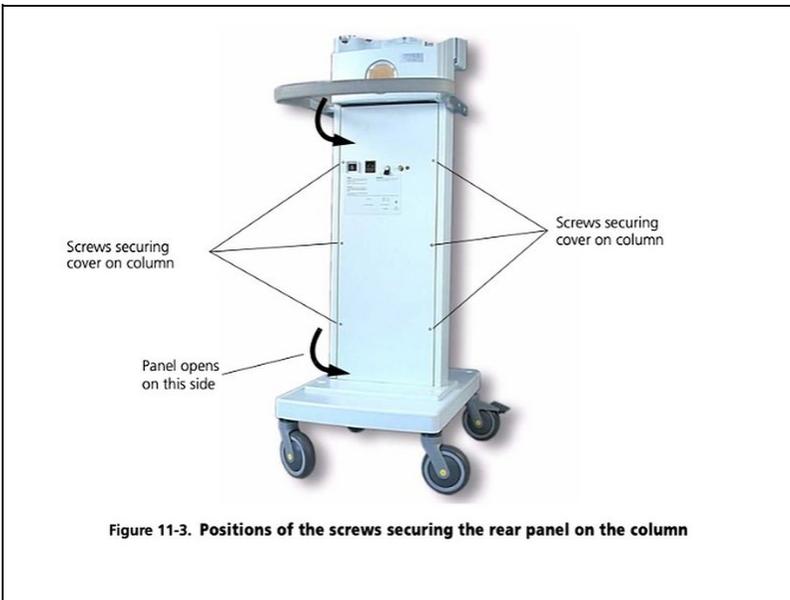
- Use a grounding cable and wrist band connected to the GALILEO or other work surface when you are working on the GALILEO.

Step 2



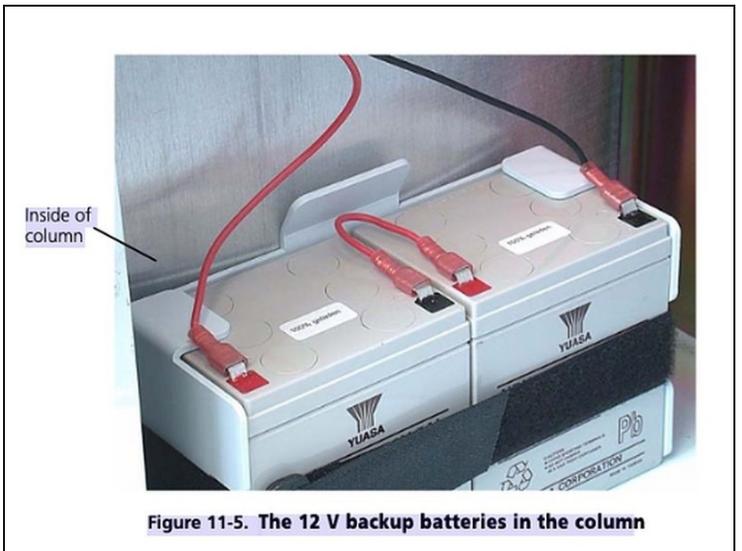
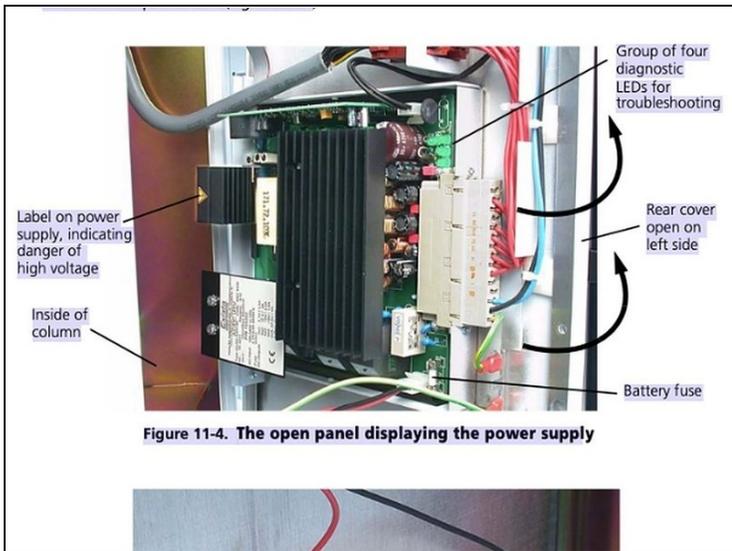
- Remove from GALILEO: External mains power supply, Air and oxygen supplies, Patient breathing circuit (for convenience only), Flow Sensor tubes (for convenience only).

Step 3



- Loosen the rear panel of the column by removing the six hexagonal-drive (Allen) screws that hold it in place.

Step 4



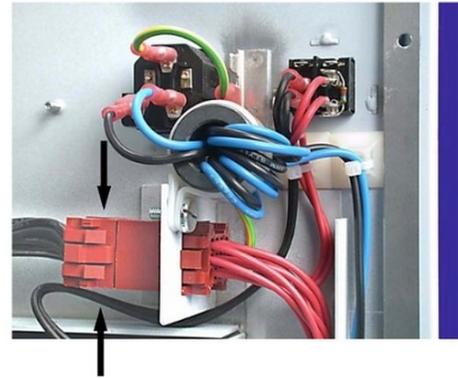
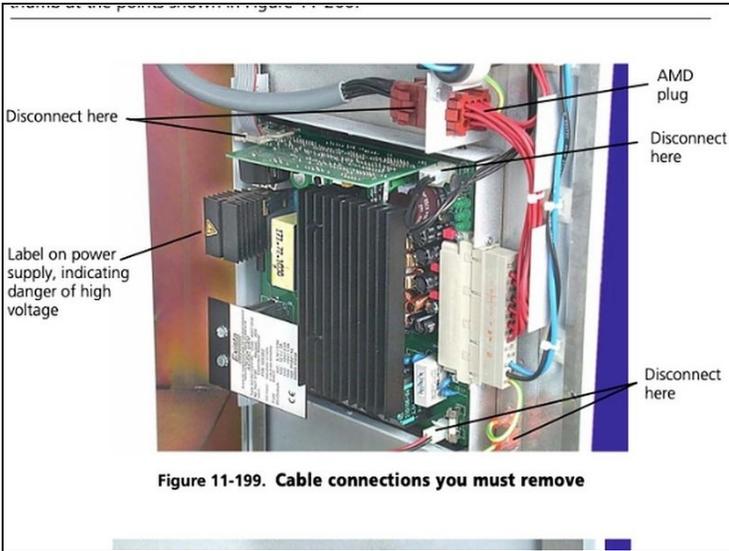
- Without removing any electrical connections, open the left side of the column as wide as practical.
 - ⓘ This exposes: GALILEO's internal power supply, The battery fuse, The diagnostic LEDs on the power supply's main circuit board, and the back up batteries.

Step 5



- Make sure no electrical connections are touching the column.
- Make sure all green/brown grounding (earthing) cables are securely in place.

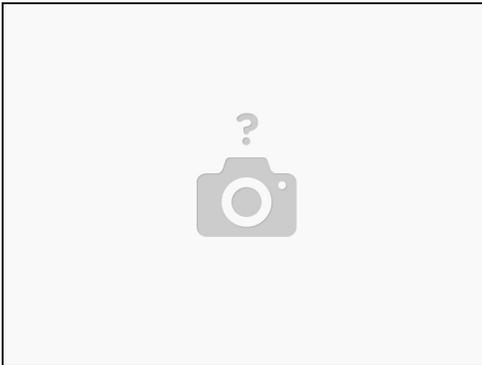
Step 6 — Power Supply



GALILEO Service Manual including Maintenance, Repairs and Tests

- Remove all cables connecting power supply to GALILEO.
- ⓘ To remove the main power connector, squeeze on the two points indicated in the second picture.

Step 7



- Remove the rear cover and place it on a suitable surface.

Step 8



Figure 11-201. Unscrewing the power supply

- Unscrew the retaining strip securing the power supply in its housing.

Step 9



Figure 11-202. Sliding the power supply from its housing

- Slide the power supply out from its housing.

Step 10

Notice that newer power supplies are fitted with a security clamp. (Figure 11-203 and Figure 11-204.)



Figure 11-203. Power supply PN 155352 with security clamp PN 155542



Figure 11-204. Security clamp PN 155542 and original screw

- To install the new power supply, simply do steps 5-2 in reverse.
- ⓘ Make sure the security clamp (shown in picture) is tight before reinstalling power supply.

Step 11



- Perform the internal voltage test linked here: page 7-5 of Section 7.3, Checking voltages.
 - ⓘ If this test is not successful, it is likely that there is a loose connection somewhere between the internal power supply and the printed circuit boards. Check the wires to make sure they are securely fastened.
- When the above test is successful, continue with the tests in the following sections:
 - 1) Section 7, Checking hardware, voltages, and interface
 - 2) Either: Section 9, Running Original Upgrade 1 test software OR Section 10, Running Upgrade 2 test software

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