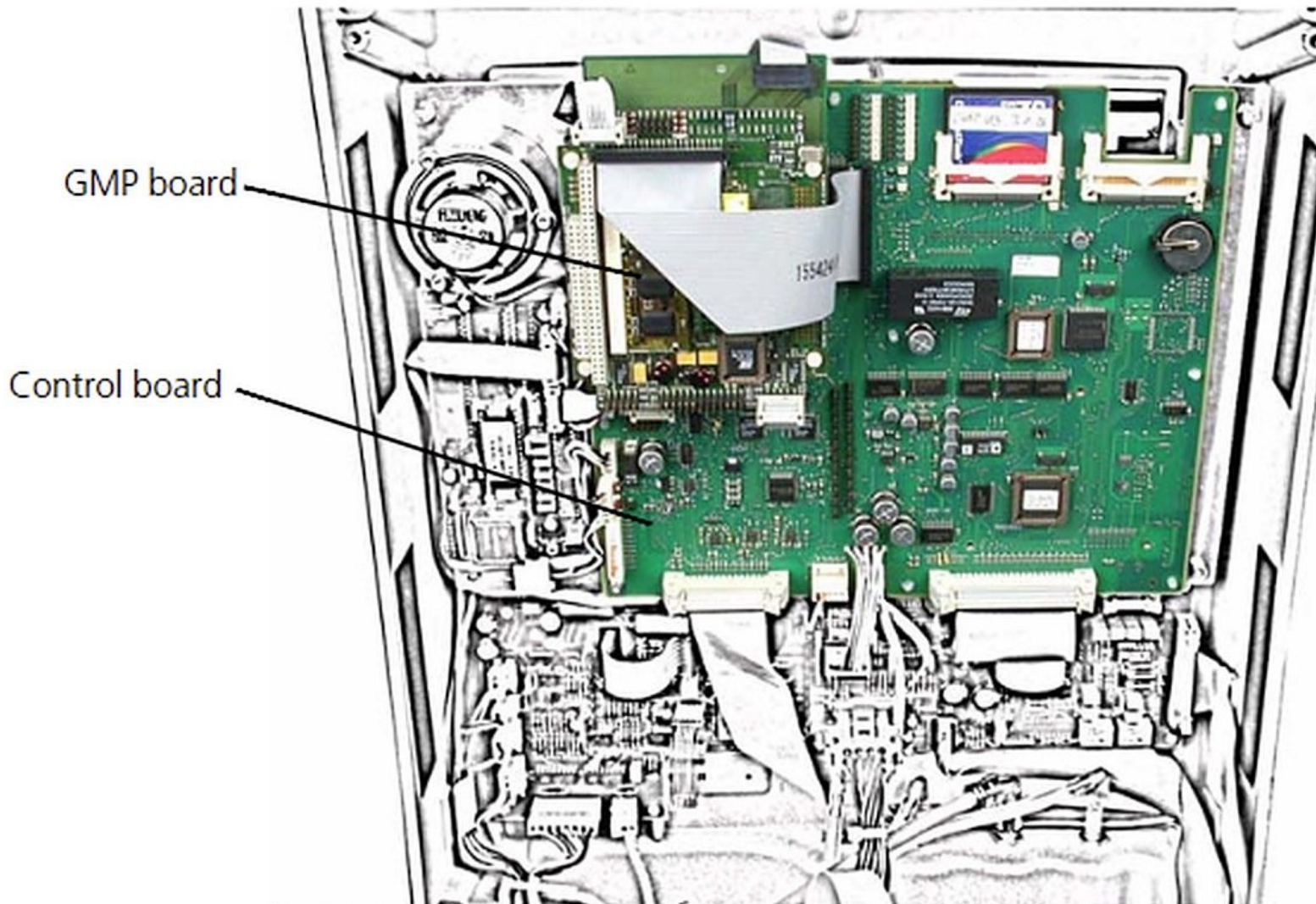




Hamilton Galileo Ventilator Control Board and GMP Assembly Replacement

This guide walks through replacing the control board and GMP Assembly of the Hamilton Galileo.

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INTRODUCTION

These instructions detail how to replace both the control board and the GMP assembly. The need to replace the control board is rare. However, in the event of a major product update it may be necessary to do. For more information on replacing the control board and the GMP assembly, please refer to **page 11-52** in the full service manual.



TOOLS:

- [Metric Allen Key Set](#) (1)
 - [Needle Nose Plier](#) (1)
 - [Small Phillips Head Screwdriver](#) (1)
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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.



Figure 11-3. Positions of the screws securing the rear panel on the column

Step 4

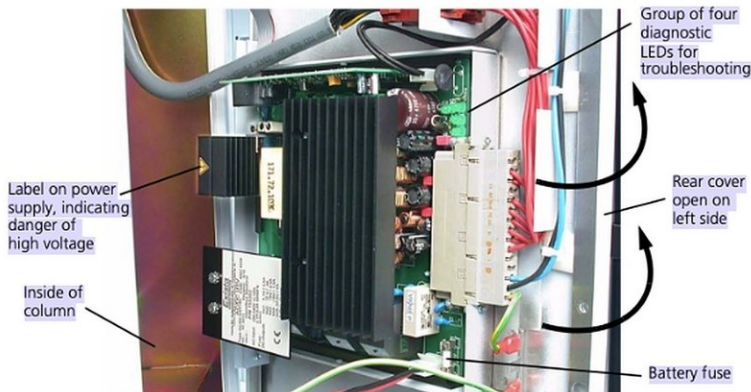


Figure 11-4. The open panel displaying the power supply



Figure 11-5. The 12 V backup batteries in the column

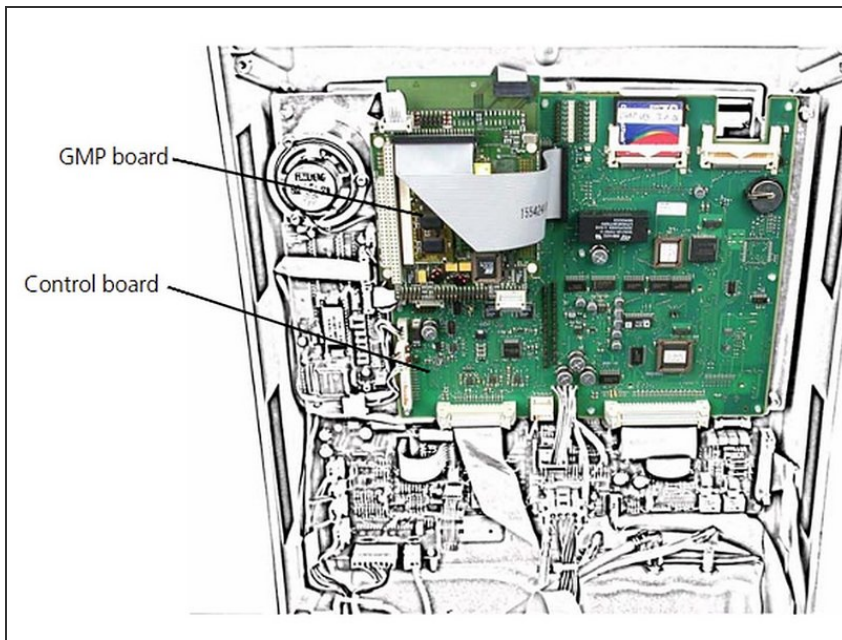
- Without removing any electrical connections, open the left side of the column as wide as practical.
 - ⓘ This exposes: GALILEO's internal power supply, The battery fuse, The diagnostic LEDs on the power supply's main circuit board, and the back up batteries.

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 — Control Board and GMP Assembly



- Locate the control board and GMP assembly.

Step 7



- Remove all cable connectors joining the control board and the GMP board to other parts of the GALILEO.

Step 8

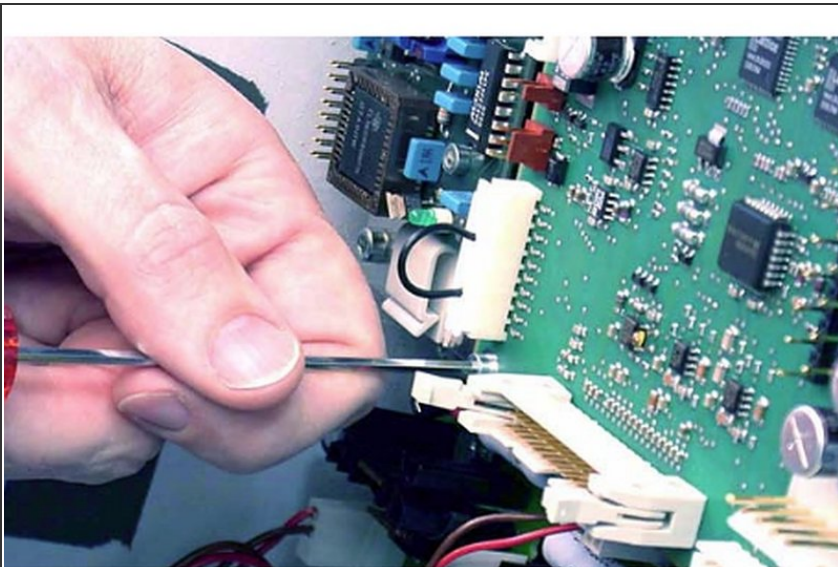


Figure 11-53. Removing the grounding screw

- Remove the single grounding (earthing) screw securing the control board to the aluminium mounting plate.

Step 9

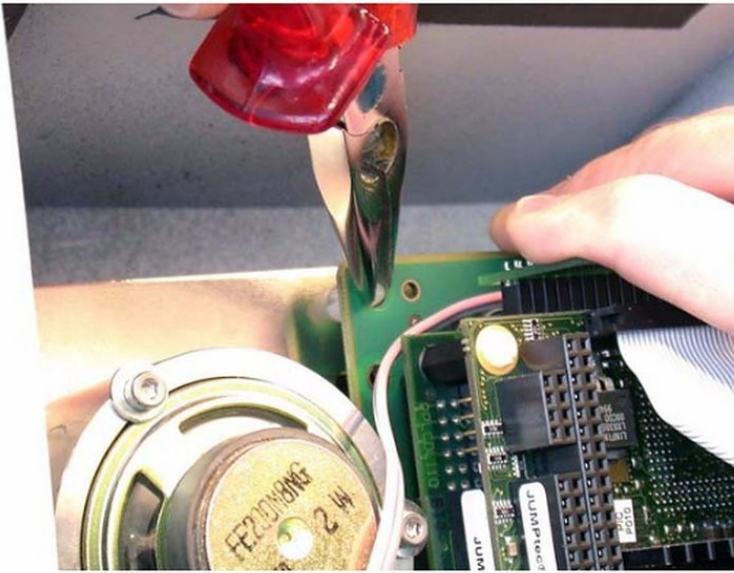
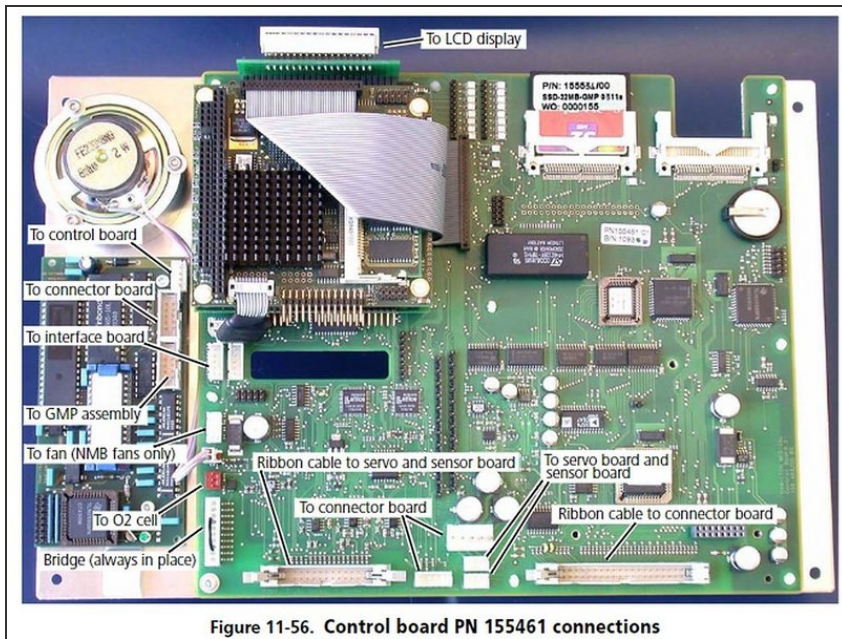


Figure 11-54. Removing the board from one spacer

- Remove the control board from the plastic spacers. Do do this, squeeze each spacer in turn, while easing the board off the spacer. Leave the spacer in the center of the board until last.

Step 10



- To re-mount the control board, reverse steps seen here. Only press the control board onto plastic spacers, do not use pliers. See image for correct cable layout.

To reassemble, mount the control board back onto plastic spacers without using pliers and be sure to connect all cables together correctly.