



Siemens-Maquet Servo-i Filter for the Inspiration Pressure Transducer Replacement

This is to provide guidance on how to replace the filter for the inspiration pressure transducer in the Siemens-Maquet Servo-i ventilator.

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INTRODUCTION

Preparations:

- Make sure that the Servo-i works properly before performing any maintenance.
- Set the On/Off switch on the User Interface to Off.
- Disconnect the mains power cable.
- Disconnect the gas supplies (wall and/or cylinder).
- Remove patient tubing.
- If fitted, remove bacteria filter from the expiratory inlet

General:

- A 'Preventive maintenance' must be performed at least once every year as long as the unit is not used more than normal. Normal operation is estimated to correspond to approx. 5,000 hours of operation.

- The Battery modules shall be replaced every three years.

- The internal Lithium batteries on PC 1771 and

PC 1772 shall be replaced every five years.

- After or in combination with performing the 'Preventive maintenance' described in this chapter, a 'Routine cleaning' and an 'Extended cleaning of Inspiratory channel' must be performed. For cleaning procedures, refer to the 'Servo-i Ventilator System – User's manual'.

- In some parts of the Preventive maintenance, as described in this chapter, access to the Field Service System (FSS) is required.

- Some optional equipment used with the Servo-i, but not covered by this Service Manual, may also demand maintenance actions. Refer to the optional equipments documentation.

Example on such optional equipment are:

- Humidifier
- Compressor Mini.

Equipment:

- Standard service tools.
- Barometer (or information about the actual barometric pressure).
- Access to the Field Service System (FSS). Recommended but not required.
- Preventive maintenance-kit containing all parts needed during the maintenance.

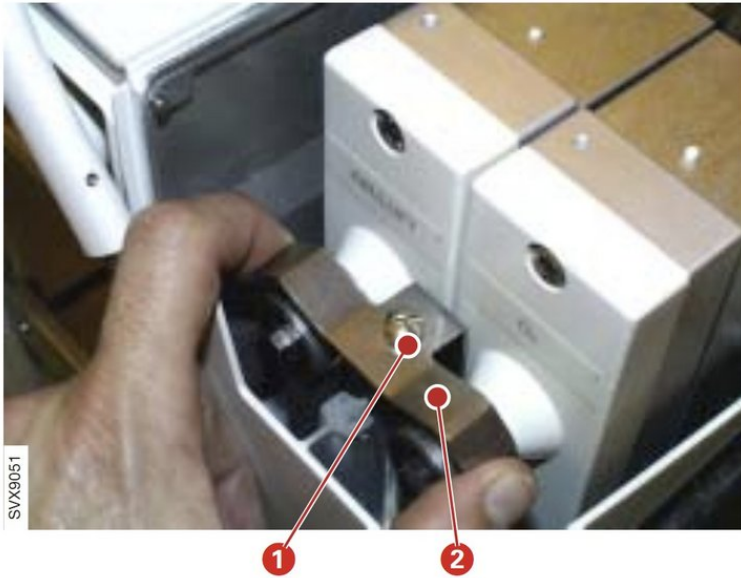
(Service Manual 7 - 3)



TOOLS:

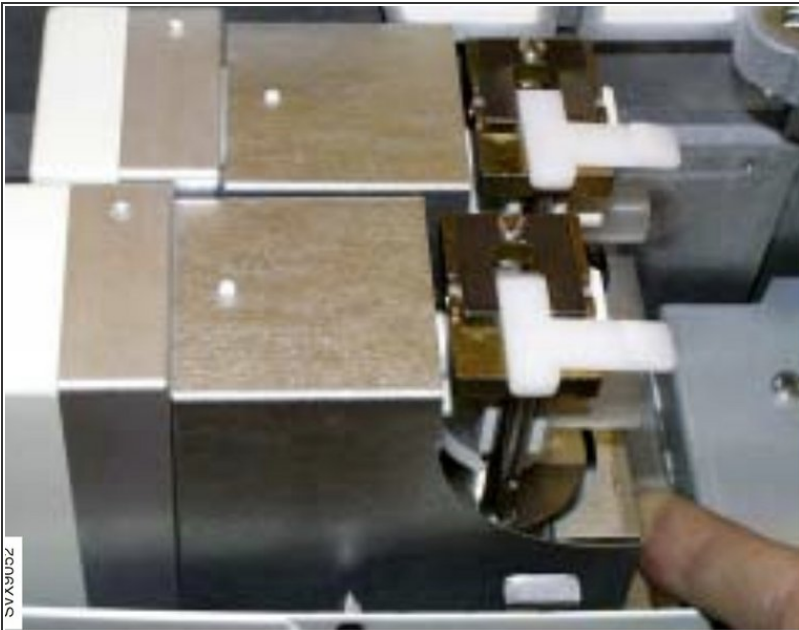
- [Phillips #0 Screwdriver](#) (1)
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Step 1 — Filter for Gas Modules



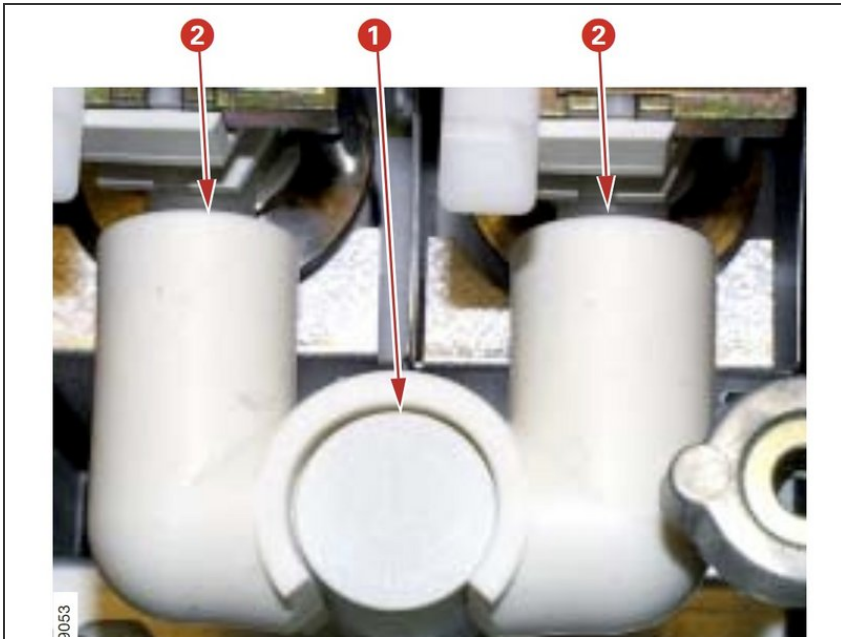
- When performing this maintenance, a 'Maintenance kit, 5,000 hours' should be used
 - Remove the inspiratory section cover
 - Loosen the screw (1)
 - Lift off the gas module bracket (2)
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Step 2



- Pull out and lift off both gas modules.
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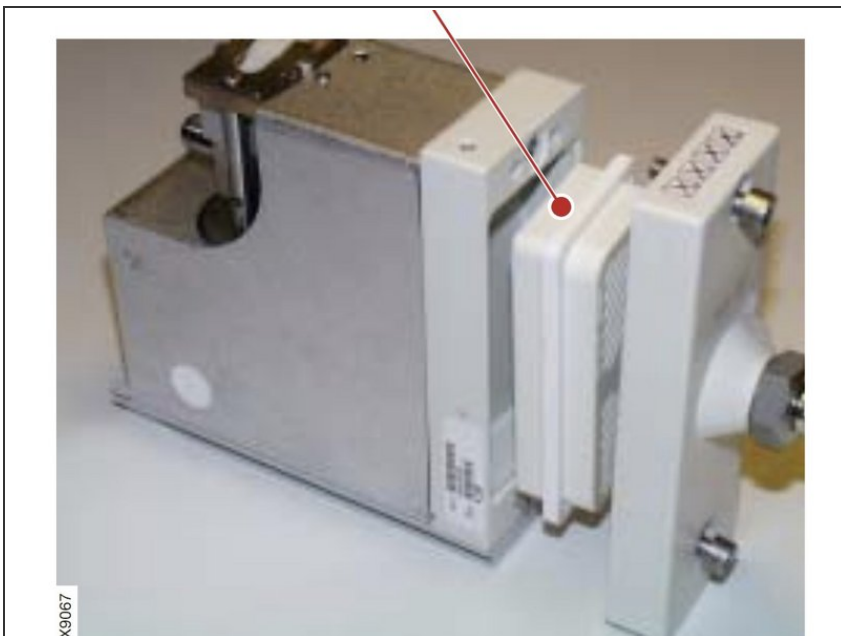
Step 3



- Note 1:** When assembling, make sure that the connector muff properly seals around the inspiratory pipe (1). The connector muff must not be pushed too far onto the nozzle units (2)
- Note 2:** The gas modules used in Servo-i are factory adjusted for this purpose. When replacing gas modules, make sure to use only Servo-i gas modules. Similar gas modules intended for the SV 300/300A or KION / KION-i Systems must not be used.

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Step 4



- Replace filters in the gas modules. When replacing filter, move the rubber seal from the old to the new filter.
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Step 5 — Filter for the Inspiration Pressure Transducer

- Locate the inspiratory pressure transducer filter shown by C in the image.



Step 6

- Replace the filter for the inspiratory pressure transducer.

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Step 7



- Make sure that the filter is correctly seated into the rubber ring.

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Step 8



- Note: This filter may already be replaced as a part of the 'Extended cleaning of Inspiratory channel' performed in combination with the Preventive maintenance.

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