

SV600/650/800/850 Ventilator

Service Manual

7 Maintenance and Calibration

WARNING

- When it comes to test and maintain the equipment, make sure that the patient is disconnected from the equipment.
 - The equipment may have been used on patients carrying infectious diseases. Before testing or maintaining the equipment, wear sterile rubber gloves to reduce the risk of being infected.
 - When the equipment to be maintained contains blood or other secretion, clean, disinfect and sterilize the equipment by strictly following the control and safety handling procedures for infectious diseases.
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7.1 Equipment Maintenance

To ensure the long-term reliability and stability of the ventilator, periodical maintenance of the equipment and replacement of its parts must be performed by authorized service personnel. For details about parts replacement, refer to **7.1.1.1Parts Replacement**. Periodical parts replacement should be carried out every year after installation. Make records of the parts that have been replaced before the periodical replacement. Lithium battery and blower box assembly need to be maintained according to their working time. If it has reached the maximum working time or the system gives an alarm, it is necessary to replace the part.

NOTE

- These schedules are the minimum frequency based on typical usage of 5000 hours per year. You should service the equipment more frequently if you use it more than the typical yearly usage.
 - To avoid equipment damage or personal injury, replace the parts which need to be replaced periodically even if they are not worn or damaged when the due date arrives.
 - Before maintaining the ventilator, run system check to test the states of important parts such as the blower, sensors and valves, and circuit leakage or occlusion for a basic understanding of the current state of the ventilator. Refer to 7.2.1System Check.
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7.1.1 One-year Replaceable Parts

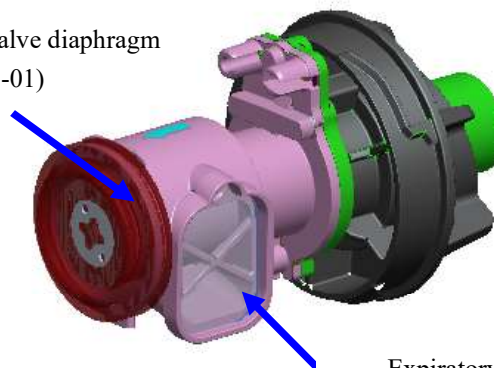
One-year service list (115-049765-00) and tools:

S/N	P/N	Description	Qty	Tool
1	049-000778-01	Expiratory valve diaphragm	1	N/A
2	045-001333-01	HEPA filter	1	N/A
3	045-001298-01	Air inlet dust screen	1	N/A
4	048-007169-00	Inlet labyrinth sponge	1	N/A
5	048-006954-00	Blower dust proof cotton	1	N/A
6	082-000753-00	Filter, filter element (5um) (spare parts for repairing)	1	N/A
7	082-001240-00	Filter element F92G-KIT 5um	1	Phillips screwdriver
8	048-006955-00	filter cotton(VT70)	1	N/A

7.1.1.1 Parts Replacement

- (1) Replace the expiratory valve diaphragm (049-000778-01) every 12 months as required. As indicated by the expiratory valve handwheel silkscreen on the front panel of the ventilator, rotate the expiratory valve handwheel counter clockwise to the limit position and then take out the expiratory valve horizontally as shown below. Remove the expiratory valve diaphragm at the tail with hand and replace with a new service part. Do not damage the diaphragm during replacement. Note that the diaphragm is evenly snapped in the ring recess of the expiratory valve plastic part. When maintaining the expiratory valve diaphragm, check whether the expiratory check valve is fall off or gets dirty. If the check valve gets dirty, clean the valve. If the valve fall off, re-install the valve.

Expiratory valve diaphragm
(049-000778-01)



Expiratory check valve

- (2) Replace the HEPA filter (045-001333-01) every 12 months as required. Open the right cover panel of the blower box. Depress and grab the snap at the top of HEPA filter and pull it out horizontally. When installing, push in the HEPA filter to the right position and make sure it is installed in place.