

## Repairer Preventive Maintenance Checks and Services

6530-01-374-8903  
Portable Ventilator, Model 15304

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	<p><b>Ventilator</b></p> <p>a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.</p> <p>b. Inspect hoses, fittings, and regulators for cracks, crimps, leakage, discoloration, damaged connector fittings, or excessive wear as directed in the manufacturer's literature.</p> <p>c. Verify electrical safety.</p>	<p>Missing components or accessories prevent the operation of the ventilator.</p> <p>Unserviceable components and accessories prevent the use of the ventilator.</p> <p>The ventilator fails any of the electrical safety tests.</p>
2	A	<p><b>Preventive Maintenance</b></p> <p><b>NOTE: Before using the Bird Avian Portable Ventilator®, the repairer should read and understand all warnings and cautions in the manufacturer's literature.</b></p> <p>Complete the preventive maintenance inspection procedures outlined in the manufacturer's literature.</p> <p><b>NOTE: Complete ventilator maintenance will be required at a minimum of once every two years.</b></p>	<p>There is damage to the battery or if there are missing components that preclude operation of the unit.</p>
3	A	<p><b>Testing Procedures</b></p> <p>a. Adjust the following controls as indicated below, per the manufacturer's literature:</p> <p>(1) Breath Rate: 12 bpm</p> <p>(2) Assist Sensitivity: -4cm H<sub>2</sub>O</p> <p>(3) Over Pressure: Maximum</p> <p>(4) Inspiratory Time: 0.5 Seconds</p> <p>(5) Flow: 60 lpm</p> <p>(6) High Pressure Alarm: 5 cm H<sub>2</sub>O above the peak reading. (To set this alarm, press the PIP button to obtain the peak pressure, then set the alarm 5 cm H<sub>2</sub>O above the peak reading.)</p> <p>(7) Low Pressure Alarm: 10 cm H<sub>2</sub>O below the peak reading.</p>	

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		<p><b>NOTE: Read the entire test procedures outlined in the manufacturer's literature before performing the tests.</b></p> <p>b. Internal Self Test</p> <p>(1) Alarm Silence/Reset</p> <p>(2) Apnea Alarm</p> <p>(3) Breath Rate</p> <p>(4) Disconnect and Low Peak Pressure Alarms</p> <p>(5) Self CAL/Display Test Mode</p> <p>(6) Flow</p> <p>(7) High Peak Pressure Alarm</p> <p>(8) I:E Ratio Alarm</p> <p>(9) Demand Flow/Assist Sensitivity</p> <p>(10) Inspiratory Time</p> <p>(11) Leak Check</p> <p>(12) Power Indicator</p> <p>(13) Sigh Breath</p>	<p>The automatic internal checks cannot be verified.</p> <p>The alarm cannot be silenced.</p> <p>The alarm fails to activate after 20 seconds.</p> <p>The breath rate does not match within +/-1 bpm.</p> <p>The "Disconnect" or the "Low Pressure" audible/visual alarm does not activate.</p> <p>The unit does not display "PASS" on the monitor display. The indicators do not illuminate.</p> <p>The proper flows do not display on the pneumatic test set.</p> <p>The "High Peak Pressure" audible/visual alarms do not activate and Inspiration does not terminate.</p> <p>The audible and visual "I:E Ratio" alarms do not activate immediately.</p> <p>Flow of 60 lpm +/-6 lpm does not display on the pneumatic test set.</p> <p>The setting that is displayed on the ventilator does not compare to that of the pneumatic test set display.</p> <p>The difference of the readings are not less than 5 cm H<sub>2</sub>O.</p> <p>The green LED does not light.</p> <p>The next breath tidal volume is not 750ml +/-75ml as measured on the pneumatic test set.</p>

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		<p>(14) Over Pressure Relief</p> <p>(15) PEEP Not Set Alarm</p> <p>(16) Pressure Transducer</p> <p>(17) Battery Low/Fail Manual Breath</p> <p>(18) External Power Low/Fail Alarm</p> <p>(19) Anti-Suffocation Valve</p> <p>c. Verify that the verification/certification sticker (DD Form 2163) has a current date.</p>	<p>Airway pressure is not as stated in the procedure.</p> <p>Alarms do not activate.</p> <p>The pneumatic test set does not read 100cm +/-5 cm H<sub>2</sub>O.</p> <p>The "Battery Low/Fail" light does not activate as stated in the procedure.</p> <p>The "External Power" indicator does not activate as stated in the procedure.</p> <p>The pressure displayed on the pneumatic test set goes below -4 cm H<sub>2</sub>O.</p> <p>The unit has not been verified within the last six (6) months.</p>