

# Operator Preventive Maintenance Checks and Services

6530-01-374-8903

Portable Ventilator, Model 15304

[B-Before Operation, D-During Operation, A-After Operation, Q-Quarterly, and S-Semiannually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	B	<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 and tear.</p> <p>c. Verify that the Medical Equipment Verification/Certification sticker (DD Form 2163) has a current date.</p>	<p>Missing components and accessories prevent the operation of the ventilator.</p> <p>Unserviceable components and accessories prevent the use of the ventilator.</p> <p>The unit has not been verified within the last six (6) months.</p>
2	B, A	<p><b>Case</b></p> <p>Inspect for wear, loose or missing hardware, and cracks.</p>	<p>The unserviceable case prevents the protective storage or movement.</p>
3	B, A	<p><b>Ventilator Operational Test</b></p> <p><b>NOTE: Before using the Bird Avian Portable Ventilator, the user should read and understand all warnings and cautions in manufacturer's literature.</b></p> <p>a. Ensure the unit is properly assembled, as directed by the manufacturer's literature.</p> <p>b. Conduct the performance check as directed by the manufacturer's literature.</p> <p style="padding-left: 20px;">(1) Conduct the internal self test as directed by the manufacturer's literature.</p> <p style="padding-left: 20px;">(2) Set up the unit using the "Test Settings."</p> <p style="padding-left: 20px;">(3) Conduct the tests as directed by the manufacturer's literature.</p> <p style="padding-left: 40px;">(a) Set "PEEP Valve" to 10 cm H<sub>2</sub>O.</p> <p style="padding-left: 40px;">(b) Press "P<sub>aw</sub>" button to display the airway pressure.</p> <p style="padding-left: 40px;">(c) Set the Breath Rate to 12 bpm.</p> <p style="padding-left: 20px;">(4) Conduct the "Alarm Test Procedures" as directed by the manufacturer's literature.</p>	<p>Missing components and accessories prevent the operation of the ventilator.</p> <p>The ventilator fails the performance check.</p> <p>The self-test detects a failure, and a CPU failure alarm activates.</p> <p>The test does not continue at 12 bpm.</p> <p>The airway pressure drops more than 5 cm H<sub>2</sub>O over a 20-second period.</p> <p>The unit does not return to a 12 bpm breath rate.</p>

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		<p>(a) Using an external power supply, disconnect the power cord from the electrical outlet.</p> <p>(b) Reconnect the power supply cord to the electrical outlet to deactivate alarm.</p> <p>(c) Lower the "High Pressure Alarm" setting to 5 cm H<sub>2</sub>O below the "PIP" reading.</p> <p>(d) Disconnect the test lung from the patient valve.</p> <p>(e) Adjust the "Inspiratory Time/Tidal Volume" control to the maximum setting of 3.0 seconds.</p> <p>(f) Adjust the mode control to the "Assist/Control Mode."</p> <p>(g) With the "Mode" control at the "Assist/Control" setting, adjust the "Manual PEEP Reference" control to zero. Adjust the removable "PEEP" valve at the patient valve to 5 cm H<sub>2</sub>O.</p>	<p>The audible/visual "External Power Low/Fail" alarm does not activate or the ventilator does not continue to operate using the internal battery.</p> <p>The audible and visual "High Peak Pressure" alarms do not activate or the inspiration does not terminate.</p> <p>The audible and visual "Low Pressure" or "Disconnect" alarms do not activate.</p> <p>The audible and visual "I:E Ratio" alarms do not activate immediately.</p> <p>After a 20-second interval has elapsed, the audible and visual "Apnea Backup" alarms do not activate or the unit does not deliver a "Controlled" breath.</p> <p>The audible and visual "PEEP Not Set" alarms do not activate.</p>