

6525-01-370-7552
 Portable Dental X-Ray System, Model ALPHA MPDX

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

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	<p>X-Ray System</p> <p>a. Verify that the items listed on the Equipment Parts and Accessories List are on hand.</p> <p>b. Unpack and assembly as the x-ray unit as directed by manufacturer's literature.</p>	<p>Missing components or accessories prevent the operation of the dental unit.</p> <p>The unit cannot be assembled.</p>
2	Q	<p>Preventive Maintenance Schedule and Procedures</p> <p>a. Inspection/check procedures</p> <p>(1) Visually inspect the unit as directed by the manufacturer's literature.</p> <p>(2) Verify that the unit meets all of the pre-operational requirements according to the Operator Preventive Maintenance Checks and Services.</p> <p>(3) Check all hardware connections for security. Tighten any loose connections.</p> <p>(4) Inspect the unit for chips, scratches or exposed metal. Use touch-up paint to repair any damage to paint or finish.</p> <p>(5) Perform corrective, adjustment or calibration procedures as required to resolve a malfunction, or perform periodic alignment adjustment and calibration functions in accordance with the schedule provided in manufacturer's literature.</p>	<p>The check out cannot be accomplished.</p>
	Q	<p>b. Perform the cleaning procedures as directed by the manufacturer's literature.</p>	
	S	<p>c. Perform "Adjustment, Calibration and Test" as directed by the manufacturer's literature.</p> <p>(1) Hi-Pot Test</p> <p>(2) Leakage Current</p> <p>(3) Line Voltage Meter</p> <p>(4) mA/kVp Calibration</p> <p>(a) Calibration Set-up</p> <p>(b) Line Voltage</p> <p>(c) mA Calibration</p> <p>(d) kVp Calibration</p>	<p>The adjustments and calibration cannot be accomplished.</p> <p>Leakage or breakdown occurs at 1500V within 60 seconds.</p> <p>Leakage is more than 100 microamps.</p> <p>X-ray will not calibrate to 7mA +/-10%.</p> <p>X-ray will not calibrate to 70kVp +/-10%.</p>

(continued) Appendix B. Repairer PMCS

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ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
	S	(5) Timer Test Data (a) Calibration (b) Verification (6) Exposure Indication (7) Line Current (8) Half Value Layer (9) Reproducibility (10) Leakage Test (11) Beam Limiting Device (12) Final Step (13) Update the Medical Equipment Verification/Certification label (DD Form 2163). (14) Verify electrical safety. d. Perform long term storage maintenance procedures as directed by the manufacturer's literature.	Will not calibrate within +/-10% and +/-4ms. Any indicators prevent safe operation. The current is not less than 7Amps The results are not greater than 0.51. The results are not less than 0.02. Any reading exceeds 50mR. Tolerance is not within 5.8 – 6.2cm. The unit has not been verified within the last 12 months. The x-ray system fails any of the electrical safety tests. The unit cannot complete the degassing process.