(continued) Appendix A. Operator PMCS

Table A-19. TM 8-6530-004-24&P, Sterilizer

ITEM NO	INTERVAL					ITEM TO BE INSPECTED AND PROCEDURE	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	Q	S		
1	X		X			**Sterilizer.**	
						a. Inventory the unit for all components and accessories.	Missing or damaged components or accessories prevent proper operation of the unit.
						b. Ensure that the unit is set up and assembled properly.	The sterilizer cannot be assembled properly.
						c. Remove chamber drain plug and inspect for lint and sediment from the strainer.	Buildup of sediment cannot be removed and prevents the chamber from draining.
						d. Inspect and clean interior surfaces of the chamber with mild detergent and water before heating. Clean the shelves in the same manner. **CAUTION:** Do not use steel wool or abrasive cleaners.	Chamber is damaged or corroded.
2	X					**Sterilizer jacket.**	
						WARNING: Lift the relief handle of the safety valve or turn operating valve to the dry position to release any pressure in the jacket before removing the plug from the filling funnel. Fill the sterilizer jacket with the purest water available and inspect for water leaks. Ensure the water in the sight glass is at least at ¼ mark.	Jacket leaks or cannot be filled with water.
3	X	X				**Electrical operations.**	
						a. Ensure that the frame of the sterilizer is adequately grounded before operating on electrical power. Seek assistance from unit medical maintenance section if necessary.	Unit is not adequately grounded.
						b. Ensure that the water level viewed in the sight glass is at least at the ¼ mark.	Jacket cannot be filled with water.
						c. Verify operation of the pressure control switch knob. Turn the pressure control switch knob to the maximum clockwise position.	Pressure control switch does not operate properly.
						d. Verify operation of the operating valve. Ensure that the operating valve is in the OFF position.	Operating valve does not operate properly.
						e. Turn the heat switch on and verify that the red pilot light is glowing.	Heating elements do not energize.
						f. Verify the increase in pressure and test the safety valve by depressing the safety lever.	Safety valve does not activate.

(continued) Appendix A. Operator PMCS

(continued) Table A-19. TM 8-6530-004-24&P, Sterilizer

ITEM NO	INTERVAL					ITEM TO BE INSPECTED AND PROCEDURE	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	Q	S		
						g. Verify that the pressure gauge indicates the desired pressure of 18 psi for 250°F or 29 psi for 270°F.	Desired steam pressure cannot be reached or pressure gauge is faulty.
						h. Turn the pressure control switch knob slowly counterclockwise until the pilot light goes out. Verify that the pressure control cycles and maintains the selected pressure. **NOTE:** A pre-heat period of 10 to 15 minutes is recommended to allow the pressure to stabilize. There are no markings or calibration on the pressure control switch since temperature is a function of absolute pressure rather than gauge pressure. Depending on altitude and atmospheric conditions, reaching 270°F may require between 27 and 32 psi gauge pressure. The pressure switch must be adjusted to the pressure which will give the desired temperature.	Pressure control does not operate properly.
						i. Load the sterilizer and verify proper operation. **CAUTION:** In the event that water in the jacket runs low, the low water cut-off will interrupt the power supply to the heaters. If this occurs, lift the RELIEF HANDLE on the safety valve to release any pressure in the jacket before removing plug from filling funnel. Wait until internal parts cool below the boiling point and refill the jacket with water and press the reset button (located under the heater box). Proceed with the regular operating cycle from the beginning.	Sterilizer does not operate properly.
4	X	X				**Gasoline heat.**	
						a. **CAUTION:** When using gasoline heat, the sterilizer does not have low water cut-off protection. Use extreme caution when water level in the jacket falls below the ¼ mark. Be sure to remove heat before the water is exhausted. Fill jacket with water. Ensure that the sight glass shows the water level in the jacket to be at least on the ¼ mark.	Jacket cannot be filled with water.
						b. Verify operation of the operating valve and ensure that it is in the OFF position.	Operating valve does not operate properly.

(continued) Appendix A. Operator PMCS

(continued) Table A-19. TM 8-6530-004-24&P, Sterilizer

ITEM NO	INTERVAL					ITEM TO BE INSPECTED AND PROCEDURE	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	Q	S		
						c. Service and ignite the gasoline burner unit in accordance with manufacturer's instructions on the burner unit and insert it into the fire box of the sterilizer. Both side doors on the burner cavity should be left open unless partial closing is required to shield the burner from the wind. **WARNING:** The side doors should never be closed completely when the gasoline burner is being used. The door on the top of the unit must be open to permit venting of hot gases.	Gasoline burner is damaged or defective.
						d. Reduce the flame by use of the burner controls to maintain the desired pressure of 18 psi for 250°F or 29 psi for 270°F. **NOTE:** A preheating period of 10 to 15 minutes is recommended to allow the pressure to stabilize.	Burner controls do not operate properly or desired pressure cannot be maintained.
						e. Load the sterilizer and verify proper operation. **NOTE:** To prevent an overshoot of temperature when operating the sterilizer at 250°F, a pressure relief valve has been provided.	Sterilizer does not operate properly.
5	X	X				**Direct steam operation.**	
						a. Open drain valve. Ensure proper operation.	Drain valve is defective.
						b. Open steam supply valve. Ensure proper operation.	Steam supply valve does not operate properly.
						c. Adjust pressure regulator to a desired pressure. Turning handle clockwise increases pressure, counterclockwise decreases pressure. **NOTE:** A preheating period of 10 to 15 minutes is recommended to stabilize pressure. Operation on direct steam requires the installation of a direct steam adapter kit.	Desired pressure cannot be maintained.
						d. Load the sterilizer and verify proper operation. **WARNING:** To prevent possible injury to personnel resulting from bursting bottles and hot fluid, use only borosilicate (Pyrex) flasks with vented closures for sterilizing liquids.	Sterilizer does not operate properly.