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Vernitron Majestic 8080 Manual

Alfa delivers those manuals merely as a Public service to you, the customer, so you will be able to operate your sterilizer with maximum safety for you and your staff.

Please comply with all operation directions in this manual. Any misuse of a sterilizer or an autoclave, may cause bodily harm

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In 1987, Alfa began its complete refurbishment of the Pelton & Crane OCM and OCR sterilizers. One of the most noteworthy improvements Alfa made to this product is the automatic shut off and vent mechanism. When the Pelton & Crane Validator began to have electrical failures, Alfa converted this unit to the same system as the OCM & OCR, prolonging the life of this sterilizer. Today, Pelton & Crane manufacture the Delta sterilizers, and they are working great.

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Shlomo Savyon - Founder and President.

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Any misuse, may cause bodily harm.

Please comply with all operation directions in this manual.

Alfa Medical Equipment Specialists Inc. will not be responsible for any misuse of the sterilizer or its parts.

Alfa Medical
Customer Service

MAJESTIC STERILIZER
FOR
MODEL 8080

RECORD OF REVISION

REVISION	DATE	DESCRIPTION
#3	August 13, 1984	Page 3 - Paragraph on door hub assembly lubrication has been added. Page 10, 11, 12, 13, Drawings showing new locking hub and shaft assembly. Page 15 - New part numbers for Items 62A, 62B, 73, 75.
#4	August 21, 1985	Page 2 - Change **Operation, Para. 4**
#5	September 22, 1986	Page 2 - Paragraph 7 Change 1/4" Page 3 - Add new "Special Operating Condition" Paragraph. Page 15/16 Revised Parts List Items 9, 10, 41, 44, 56, 62A, 62B, 66, 73, 75, 82, 83 added 98 and 99 omitted 13 and 14.
#6	November 13, 1987	- Revised instructions to new controls configuration. - Revised Assembly Drawings. - Revised Schematic and Wiring Diagrams. - Revised Parts List.

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* *

"WARNING" notes apply when there is a possibility of personal injury.

"CAUTION" notes apply when there is a possibility of damage to the equipment.

"NOTE" are used to alert the user of the manual to pertinent facts and/or conditions.

MAJESTIC, MODEL 8080 and 8080X

DESCRIPTION

The **MAJESTIC, MODEL 8080** and **8080X,** is a single shell sterilizer designed for ease of operation and maximum safety. Steam for sterili-zation is generated through the use of a self-contained water supply and electric heating element. The **Model 8080** operates on a nominal **120 Volts, 60 Hz.** power source. The **Model 8080X** operates on a nominal **230 Volts, 50 Hz.** power source. A STERILIZE/DRY selector switch, temperature regulator, timer and FILL/VENT switch control the entire operation of the sterilizer. A white light indicates when power is on, a red light indicates when the heating element is in operation and a thermometer indicates the temperature in the chamber. Air evacuation is accomplished by a thermostatic air release assembly. A safety valve prevents excessive pressure from building up in the chamber.

INSTALLATION

1. Remove sterilizer from carton. Open door and remove packing material inside chamber.

2. Check voltage on sterilizer nameplate located on the rear of the unit.

3. Set sterilizer in desired place of operation. For proper operation sterilizer must be level from front to rear and from side to side. A 1" space should be left between the sides and back of the unit and any wall.

4. Set the POWER switch and TIMER to the OFF position.

5. Set the STERILIZE switch to STANDBY position.

6. Plug the unit into an outlet with the same voltage as shown on the nameplate.

7. Remove the reservoir cap located on the top of the unit and fill the reservoir with distilled or demineralized water to the FULL mark in the reservoir. Replace reservoir cap. The water level in the reservoir should be checked each day and refilled when the water level drops 1" to 1 $^{1}/2$" below the FULL tab.

OPERATION

1. Set the POWER switch to ON.

2. With the door open and the support assembly for the trays located at the bottom of the chamber, press and hold the FILL/VENT switch allowing water to enter the chamber until water reaches the FILL LINE on the fill plate.

3. Load sterilizer trays, insert into chamber and close and lock the door.

4. Set the timer for the desired sterilizing time. The timer will not start until sterilizing temperature is reached. (See Table 1 for suggested sterilizing times.)

5. Set the mode selector switch to STERILIZE. The CYCLE ON and the HEAT ON indicators will glow. Turn the TEMPERATURE control fully counterclockwise until it stops. This is the 270°F setting. The white indicator on the TEMPERATURE control knob will be in the 12 o'clock position. After 15 - 20 minutes the chamber temperature will reach 270°F. At 270°F, the HEAT ON light will CYCLE ON and OFF every 30 to 40 seconds indicating that the unit is heating and cycling properly. The thermometer will fluctuate slightly above the set point.

   To STERILIZE items at 250°F turn the TEMPERATURE control clockwise until the white indicator is at the 6 o'clock position. Allow the temperature to stabilize, then readjust the TEMPERATURE control CW or CCW slightly as required to hold at 250°F. The HEAT light will cycle ON and OFF as before.

NOTE:

If the STERILIZER will not reach 270°F when the TEMPERATURE control is turned fully counterclockwise, refer to Page 7 for regulator adjustment.

6. When the STERILIZING cycle is complete, a buzzer will sound for 10 seconds and the timer will automatically shut off the heater. The buzzer can be shut off by moving the mode selector switch to the "STANDBY" position.

7. To exhaust the steam from the chamber, press and hold the FILL/VENT switch until all exhaust noise stops. When the temperature drops to approximately 215°F, open door and remove load.*

8. If DRYING is required, leave the door open approximately 1", set the timer for 10 - 20 minutes (drying time depends on load size) and move the switch down to the DRY position. The CYCLE ON and mode selector HEAT ON indicators will glow.

   If DRYING time in excess of 20 minutes is required, the temperature increase could cause the low water cutoff to actuate interrupting the power and consequently the drying phase. Refer to the following "NOTE" for reset instructions.

9. When the DRY cycle is complete, a buzzer will sound for 10 seconds and the timer will automatically shut off the heaters. The buzzer can be shut off by moving the mode selector switch to the STANDBY position.

CAUTION:

The sterilizer door and chamber will be hot during heating and cooling. Avoid contact.

NOTE:

If the water supply in the chamber is depleted, or if the mode selector switch is incorrectly placed in the STERILIZE position during the DRY cycle, the heater and both lights will automatically shut off within 3 to 5 minutes and prevent damage to the sterilizer. Move the mode selector switch to the STANDBY position. OPEN the door and allow the unit to cool for 20 minutes. Push the RESET button in until a click is felt. The unit is now reset. If a click is not felt, wait 5 minutes and try again. The unit is reset and ready for operation if the CYCLE ON light comes on when the mode selector is placed in the DRY position. Return mode selector switch to the STANDBY position, refill the chamber with water and restart.

If the door is not opened as in **Step 6,** and the load is allowed to cool down completely, a VACUUM condition will be created in the chamber. **This VACUUM will prevent the door from being opened.**

In this event the following procedure will break the vacuum and allow normal opening operation of the door.

a) Check that door lock is fully tightened.

b) Hold FILL/VENT toggle down for 10 seconds to allow water to enter chamber.

c) Set the STERILIZE TIMER to 5 minutes and the mode selector switch to STERILIZE.

d) Allow chamber temperature to increase just above 210°F.

e) Set timer to OFF and the mode selector from STERILIZE to STANDBY position.

f) Hold FILL/VENT toggle down to depressurize chamber. Open the door.

CARE AND MAINTENANCE

The sterilizer should be cleaned once a week or once every two weeks depending on use and the amount of mineral build up on the heating elements and in the chamber.

Minerals, especially chlorides are corrosive to stainless steel.

Clean chamber as follows:

a) Slide unit to edge of counter and drain reservoir. Place pail or bottle under drain cap prior to unscrewing drain cap.

b) Replace drain cap.

c) Mix four ounces of **VERNITRON** cleaning solution per quart of water. Pour solution into reservoir.

d) Run a 20 to 30 minute sterilizing cycle at 250°F to 270°F. Do not sterilize instruments while cleaning solution is in sterilizer.

e) Exhaust unit and drain cleaning solution from reservoir. With drain cap unscrewed, rinse reservoir thoroughly. Remove the tray support and wipe out inside of chamber. **Caution, allow chamber to cool to avoid injury.**

f) Fill reservoir with clean water and run a 15 minute sterilizing cycle.

g) Drain the rinse solution, remove the tray support and wipe out the inside of the chamber and tray support. **Caution, allow chamber to cool to avoid injury.**

h) Add distilled or demineralized water to the reservoir. The sterilizer is ready for use.

Lubrication:

Lubricate the threads of locking shaft hub and hub assembly (Items 73 and 75) with high temperature grease, **P/N 1002156**, or equivalent.

TABLE 1

RECOMMENDED EXPOSURE TIME

Material to be Sterilized vs Minimum Time in Minutes	15 PSI 250°F 121°C	27 PSI 270°F 132°C
Instruments, metal only, in perforated trays, unwrapped	15	3
Instruments, metal, unwrapped, combined with sutures, tubing or other porous materials	20	10
Instruments, metal only, in lightly covered or padded tray	20	10
Instruments, metal, combined with other porous materials, in lightly covered or padded tray	30	15
Instruments, wrapped in muslin-4 thicknesses - for storage	30	15
Glassware, empty, inverted	15	3
Dressings, wrapped in paper or muslin	30	15
Dressings, loosely packed, in canisters	30	15
Syringes and needles, disassembled, lumen moist, individually packed in muslin or paper	30	15
Rubber gloves, wrapped in muslin or paper	20	--
Rubber catheters, drains, tubing, lumen moist, unwrapped	20	10
Rubber cathers, drains, tubing, lumen moist, individually packaged in muslin or paper	30	15
Treatment trays, wrapped in muslin or paper	30	--
Solutions (square pak bottles)		
75 ml - 250 ml	20	--
500 ml - 1000 ml	30	--
Utensils, on edge, unwrapped	15	3
Utensils, on edge, in muslin or paper	20	10

REFERENCE:

Perkins, J. J.: Principles and Methods of Sterilization in Health Sciences, 2nd ed. Springfield, Illinois, Thomas 1978, pages 165, 166.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CHECK ITEM
1. Water will not enter chamber when fill-vent switch is pressed	a) Reservoir empty or not full	
	b) Unit not plugged into "LIVE" outlet	
	c) Defective FILL/VENT switch	6
	d) Defective solenoid	36
	e) Tubing clogged	35,81
2. Water continues to enter chamber after fill/vent switch is released	a) Defective FILL/VENT switch	6
	b) Defective solenoid	36
	c) Debris on solenoid seat	36
3. Water enters chamber slowly	a) Water in reservoir tank low	
	b) Tubing clogged	35,81
	c) Solenoid clogged	36
4. CYCLE ON indicator does not light	a) Defective light	3
	b) Unit not plugged into "LIVE" outlet	
	c) Low water cut-off not reset	52
	d) Low water cut-off defective	57
	e) Defective mode selector switch	8
5. HEAT ON indicator does not light	a) Defective light	4
	b) Unit not plugged into "LIVE" outlet	
	c) Low water cut-off defective	57
	d) Low water cut-off not reset	52
	e) Defective mode selector switch	8
	f) Timer is in "OFF" position	17
	g) Defective timer	17
	h) Defective TEMPERATURE/ PRESSURE control	13
6 Heating element does not	a) Defective heating ele-	

PROBLEM		POSSIBLE CAUSE	CHECK ITEM
(6 continued)			
		c) Low water cut-off not reset	52
		d) Low water cut-off defective	57
		e) Defective mode selector switch	8
		f) Timer is in "OFF" position	17
		g) Timer is defective	17
7.	Heating element does not heat when mode selector switch is in DRY position.	a) Same as 6 (above)	
8.	Sterilizer does not come up to the desired temperature	a) Temperature regulator not properly adjusted (see below)	13
		b) Defective steam trap (see Page 8)	26
		c) Defective safety valve (see Page 8)	25
		d) Defective thermometer	2
		e) See 6 (preceeding page)	
9.	Steam leaks around door during cycle.	a) Door closed improperly	
		b) Worn door gasket	20
		c) Insufficient door tension, tighten locking hub	75
10.	Sterilizer does not shut off or complete cycle	a) Defective timer	17
		b) Low water cut-off open	57
11.	Buzzer does not sound at end of STERILIZE or DRY cycle	a) Defective buzzer	42
		b) Defective time delay relay	47
		c) Defective timer	17
12.	Buzzer will not shut off	a) Defective Time delay relay	47
		b) Defective timer	17

TROUBLESHOOTING

Temperature Regulator Adjustment - This sterilizer has been factory set, at sea level, to obtain a maximum temperature of 272°F. the maximum temperature will decrease approximately 1°F per 1000 feet increase in elevation above sea level. The maximum temperature can be adjusted as follows:

With the sterilizer operating at maximum temperature (regulator knob turned counterclockwise) loosen set screw in temperature regulator knob, using a 5/64 Allen key. Remove knob from temperature regulator shaft by pulling knob straight out.

2) Using a straight screw driver, rotate the temperature regulator shaft counterclockwise until the HEAT ON indicator lights. When the HEAT ON indicator goes out, observe the maximum temperature. If the maximum temperature is below 272°F, rotate the temperature regulator shaft counterclockwise as above. Continue this procedure until the maximum temperature (the point that the HEAT ON light just goes out) is 272°F. The minimum temperature (the point that the HEAT ON light just comes on) will be approximately 270°F. The maximum temperature of the sterilizer is now properly set.

3) Replace the temperature regulator knob with the white indicator pointing up in the 12 o'clock position. Tighten set screw.

Steam Trap - If the sterilizer will not exceed 212°F or if the sterilizer is taking too long to come up to operating temperature, the steam trap, Item 26, located in the reservoir is not operating properly and will have to be cleaned or replaced as follows:

1) Disconnect unit from power outlet and allow unit to cool.

2) Remove six screws, Item 44, holding cover to base. Lift cover straight up.

3) Loosen 1/4" compression nut on tubing connected to Item 24. Remove 5/8 hex nut, Item 24 from, union nipple, Item 85.

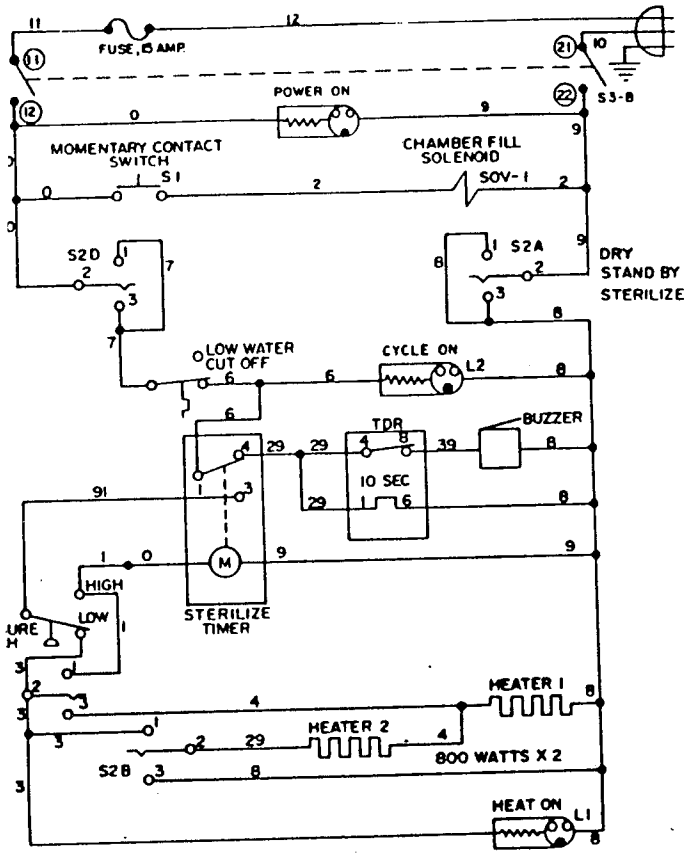
4) Remove trap assembly from reservoir.

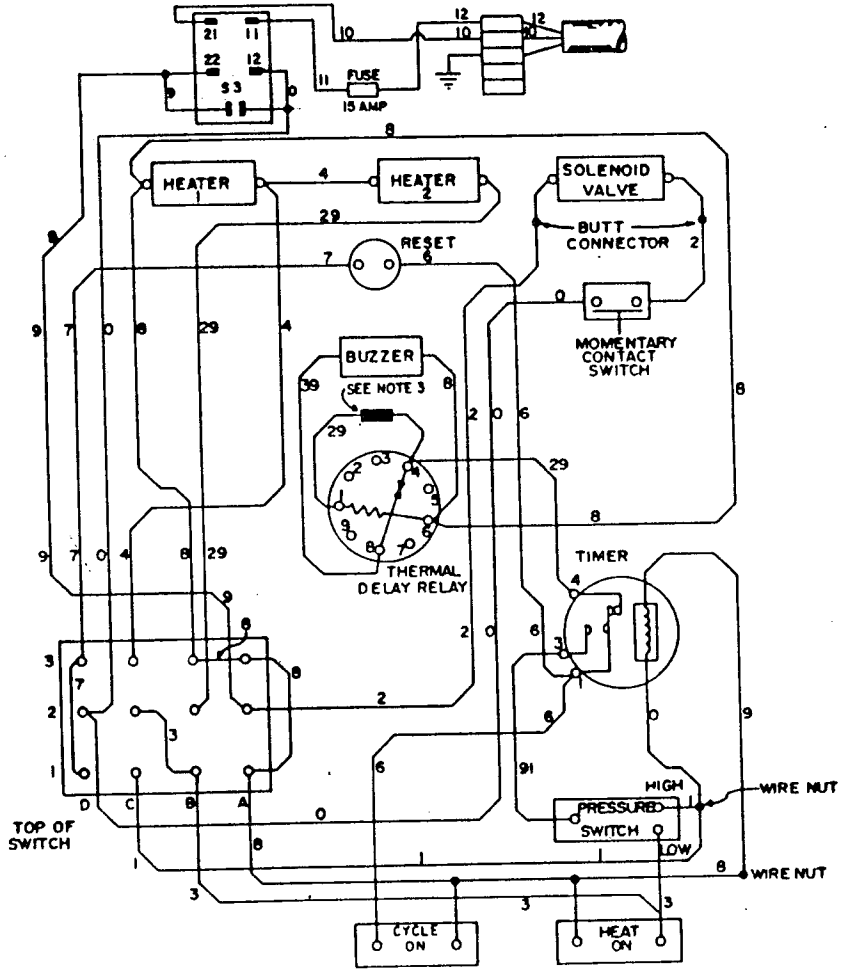
5) To clean steam trap, secure lower nut in table vise and open top nut. Remove diaphragm and bellows assembly. Clean all salts and foreign material from the bellows assembly and stainless seat located inside steam trap. Reassemble the steam trap making sure that the two brass rings are located beneath the diaphragm plate. Tighten the top nut securely. Replace steam trap in sterilizer, operate unit. If sterilizer does not operate properly, replace steam trap.

Safety Valve - Do not attempt to repair the safety valve, Item 25. Replace the safety valve if it opens below 30 PSI (274°F) or if it does not open above 36 PSI (282°F). To reset the safety valve, shut the power to heaters off, disconnect unit from power outlet, and **allow the sterilizer to cool until the safety stops bleeding.**

Replacement of Door Gasket - Pry out the old gasket, check the

Door Adjustment - Steam leaking from the door is an indication of a defective gasket or insufficient compression of the gasket to insure an adequate seal. To increase the pressure on the gasket, tighten locking hub. If sufficient pressure cannot be obtained by adjustment of the locking hub, replace the door gasket, Item 20.





All wiring to be 16 AWG, UL style 1015, 105°C, VMP, P/N A1080931.

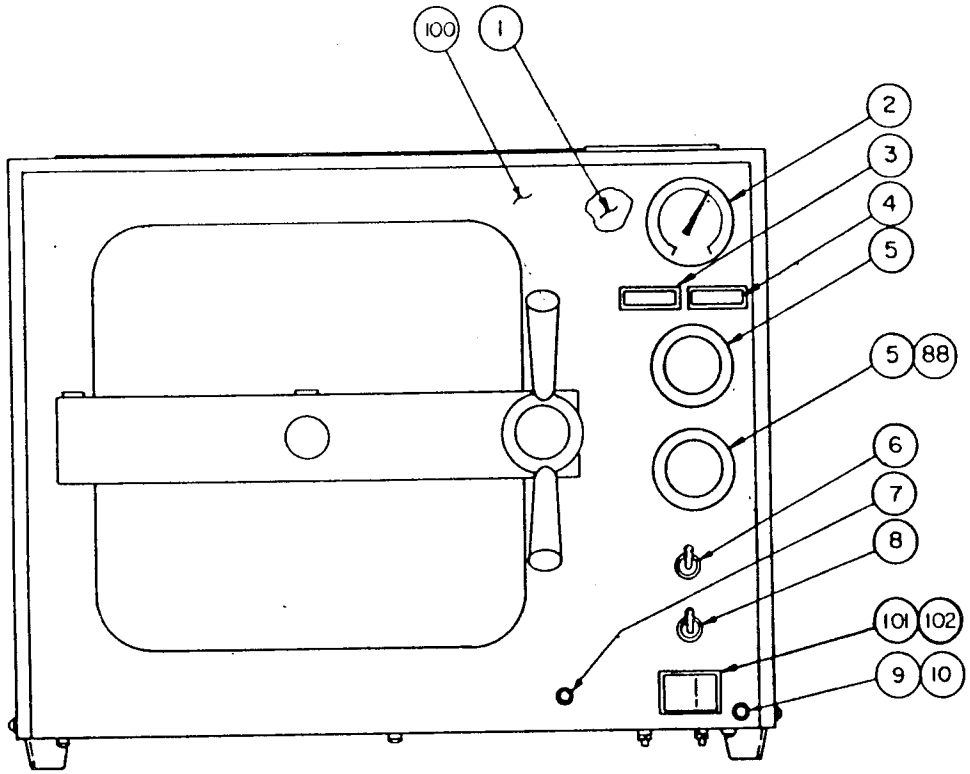
Wire Colors:

WIRE NO.	COLOR	WIRE NO.	COLOR
0	BLACK	29	RED/WHT
1	BROWN	91	WHT/BRN
2	RED	10	WHITE
3	ORANGE	11	BLACK
4	YELLOW	12	BLACK
5	GREEN		
6	BLUE		
7	VIOLET		
8	GRAY		
9	WHITE		

For 115 Volt unit use jumper from Pin 1 to Pin 4.
For 220 Volt unit use 6000 Ω . 5 Watt resistor from Pin 1 to Pin 4.

C4001352

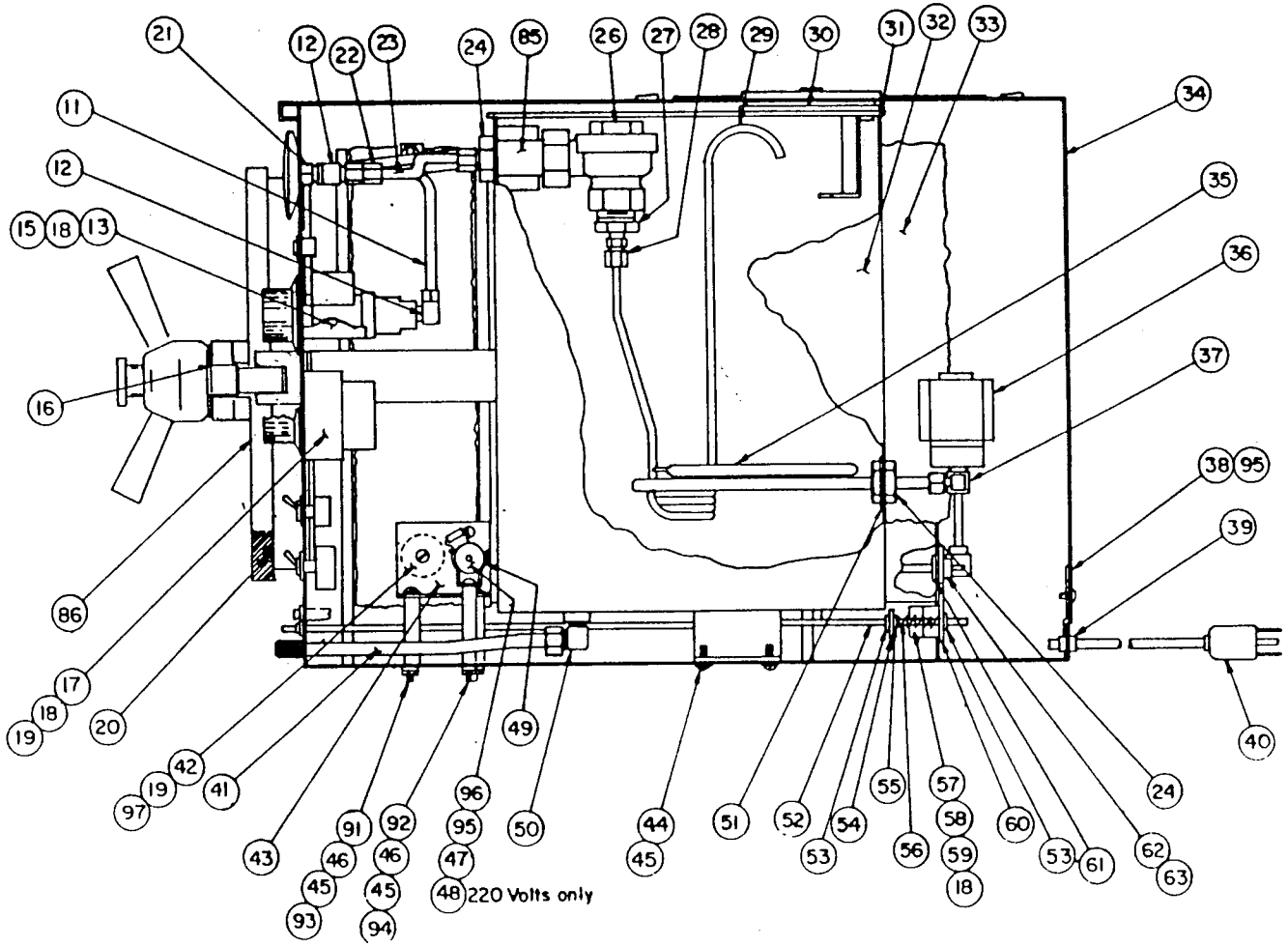
SCHEMATIC AND WIRING DIAGRAMS



FRONT VIEW

D3101425 K

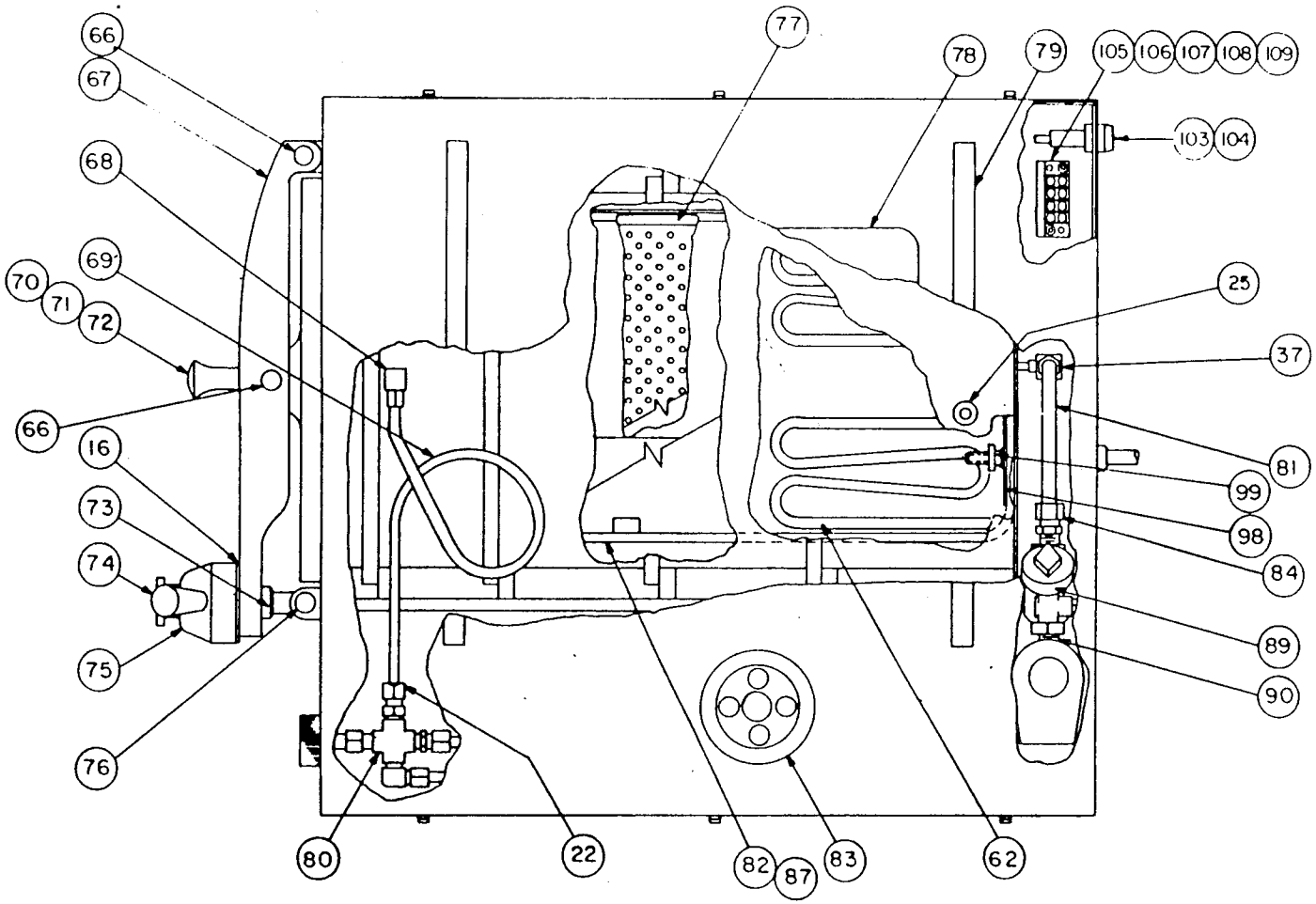
Sheet 1 of 4



SIDE VIEW

D3101425 K

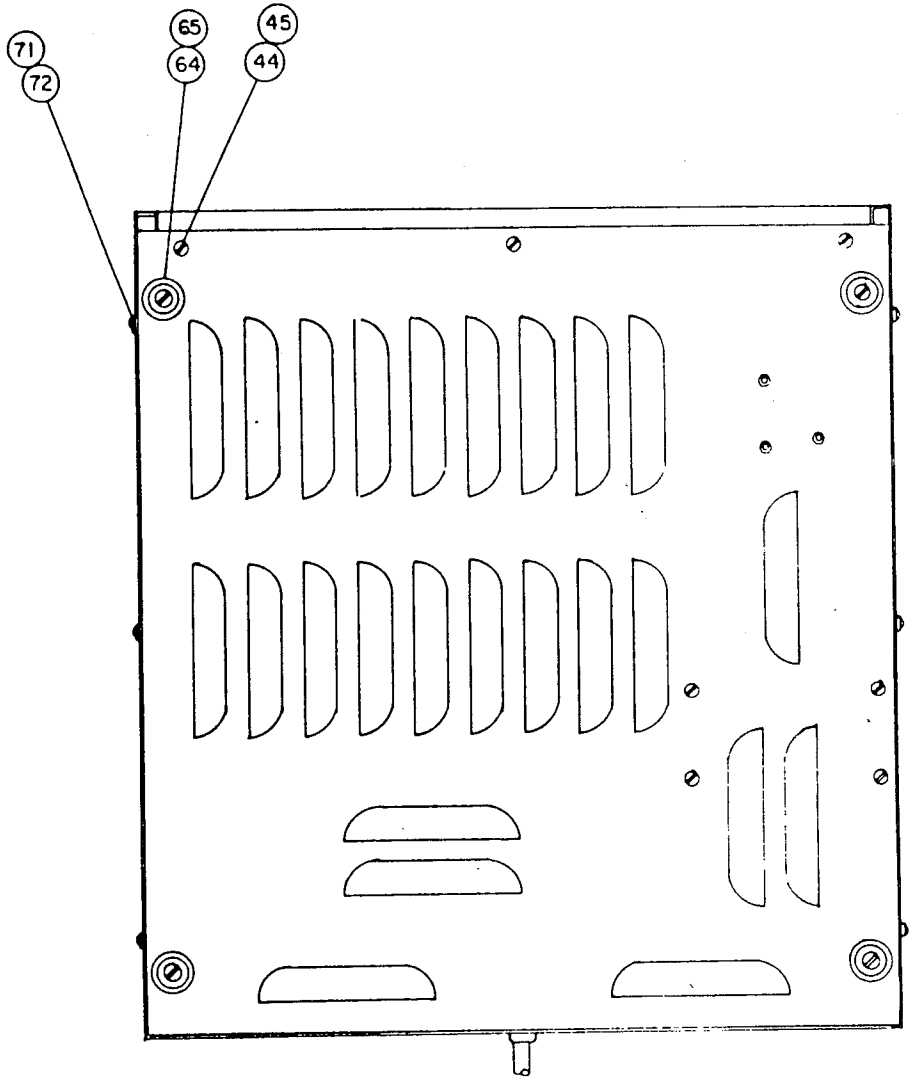
Sheet 2 of 4



TOP VIEW

D3101425 K

Sheet 3 of 4



BOTTOM VIEW

MASTER PARTS LIST/5000281 for MODEL 8080

ITEM NO	PART NO.	DESCRIPTION	QTY
1	2009144	Front Panel	1
2	1002068	Thermometer	1
3A	1002640	Indicator Light, White, 120 Volt	1
3B	1018110	Indicator Light, White, 220 Volt	1
4A	1002620	Indicator Light, Red, 120 Volt	1
4B	1003004	Indicator Light, Red, 220 Volt	1
5	1004260	Knob	2
6	1002725	Switch, Momentary SPST	1
7	1005940	Bushing, Snap	1
8	1017420	Switch, Toggle 4 PDT	1
9	2017923	Cap, Drain Tube	1
10	2015421	Insert, Cap Nut	1
11	2009674	Tubing, Manifold to Pressure Regulator	1
12	1000130	Elbow, 1/8 MNPT x 1/4 ODT	2
13	3004850	Temperature and Pressure Control Assembly	1
15	1005030	Nut, Hex 6-32	1
16	2009678	Washer, Polyethylene	1
17A	1002913	Timer, 115 Volt	1
17B	1003005	Timer, 220 Volt	1
18	1001030	Lockwasher #6	5
19	1001020	Screw, Bd, Hd., 6-32 x 1/4	3
20	1008856	Gasket, Door	1
21	1009250	Adapter, 1/4 FNPT x 1/8 NPT	1
22	1000630	Fitting Straight, 1/8 NPT x 1/4 ODT	2
23	2012741	Tubing, Manifold to Reservoir	1
24	1000140	Nut, Hex 5/8 - 18	2
25	1002134	Safety Valve	1
26	1002997	Steam Trap	1
27	1003012	Bushing, 1/2 NPT x 1/8 FNPT	1
28	1003011	Fitting Straight, 1/8 MNPT x 3/16 ODT	1
29	2009498	Condenser Coil for Steam Trap	1
30	2055660	Gasket, Reservoir Cap	1
31	3002875	Reservoir Cover Assembly	1
32	3002056	Reservoir Tank Assembly	1
33	3001971	Chamber Assembly	1
34	3005141	Cover Assembly	1
35	3001962	Condenser Assembly	1
36A	1002726	Valve, Solenoid w/coil 115 Volt	1
36B	1003006	Valve, Solenoid w/coil 220 Volt	1
36C	1003008	Coil only for Solenoid Valve 115 Volt	-
36D	1003007	Coil only for Solenoid Valve 220 Volt	-
37	1005480	Elbow, 1/4 NPT x 3/8 ODT	2
38	1017640	Nameplate	1
39	1002906	Strain Relief Bushing	1
40	1017410	Cord Set	1

ITEM NO	PART NO.	DESCRIPTION	QTY
41	2017922	Tubing, Drain	1
42A	1002723	Buzzer, 115 Volt	1
42B	1003024	Buzzer, 220 Volt	1
43	2009142	Bracket, Buzzer and Relay	1
44	1003520	Screw, Bd. Hd., 8-32 x 3/8	7
45	1003560	Lockwasher, #8	10
46	1000210	Nut, Hex 8-32	3
47	1002896	Relay, Time Delay Tube, 10 Sec., SPST, NC for 115 Volt & 220 Volt. If 220 Volt, Resistor, Item 48 must be used.	1
48	1003019	Resistor, 6000 OHMS, 5 Watt used on 220 Volt only	1
49	1003018	Clip, Tube Holder	1
50	1003013	Elbow, Comp., 1/8 NPT x 5/16 ODT	1
51	1000150	Gasket, Copper Asbestos, 5/8 ID	1
52	2015350	Low Water Thermostat Reset Rod	1
53	1000270	Retaining Ring	3
54	2015360	Low Water Thermostat Reset Bar	1
55	2026980	Low Water Thermostat Spacer	1
56	1007469	Spring, Low Water Thermostat Reset	1
57	1000410	Low Water Thermostat	1
58	1012250	Tinnerman Nut #6-32	2
59	1012240	Screw 6-32 x 5/8	2
60	2018100	Low Water Thermostat Plate	1
61	1012440	Gasket, Copper Asbestos 7/16 ID	4
62A	1007564	Heater, 115 Volt, 800 Watt	2
62B	1007568	Heater, 220 Volt, 800 Watt	2
63	1003083	Nut, Hex, Heater 7/16-20	4
64	1001150	Neoprene Leg	4
65	1014450	Screw, 8-32 x 3/4	4
66	1007467	Pin, 2"	2
67	2015120	Cross Arm	1
68	1000540	Elbow, 1/4 NPT x 1/4 ODT	2
69	2009676	Tubing, Chamber to Manifold	1
70	1011850	Cross Arm Knob	1
71	1006660	Screw, 10-32 x 1/2	7
72	1000030	Lockwasher #10	7
73	2013961	Locking Hub Shaft	1
74	1012210	Locking Hub Handle	2
75	3003416	Locking Hub and Bearing Assembly - Crossarm	1
76	2015190	Pin, 1 1/4"	1
77	2002777	Tray	2
78	1009346	Operating Instructions Plate	1
79	1011600	Tray Rails	2
80	1001441	Cross, 1/8 FNPT	1
		2 Nameplate)	4

(continued)

ITEM NO	PART NO.	DESCRIPTION	QTY
81	2009677	Tubing, Chamber to Reservoir Solenoid	1
82	1007566	Tray Rack Assembly	1
83	1008361	Fill Cover	1
84	1000900	Fitting Straight, 1/4 NPT x 3/8 ODT	1
85	1007405	Nipple, Union (Special)	1
86	3004610	Door Assembly	1
87	2009708	Baffle	1
88	2010918	Spacer, Timer	1
89	2012317	Valve, Check (Modified) 1/4 NPT	1
90	1002642	Nipple, 1/4" NPT x 7/8" Lg.	1
91	2012324	Spacer, Bracket	2
92	2012325	Spacer, Clip	1
93	1009570	Screw, Rd.Hd., 8-32x2" Lg (2-Spacer, Bracket)	2
94	1030000	Screw, Rd.Hd., 8-32x2-1/4" Lg (1-Spacer, Clip)	1
95	1025970	Rivet, Pop, 1/8 Dia. (2-Socket, Tube)	
96	1002520	Socket, Tube, 9 Pin	1
97	1015270	Lockwasher, External Tooth, #6 (1-Buzzer to Bracket)	1
98	2028270	Support, Tray Rack	1
99	1012110	Nut, Knurled, Brass	1
100	1009176	Panel Overlay	1
101	1007204	Rocker Switch	1
102	1007205	Operator, Rocker	1
103	1000980	Holder, Fuse	1
104	1007061	Fuse, 15 AMP	1
105	1001390	Terminal Block, 4 Pin	1
106	1029860	Marker Strip, 4 Pin	1
107	1003520	Screw, Binding Head, 8-32x3/8" Lg.	2
108	1006210	Nut, Hex. 8-32	3
109	1003560	Washer Lock, #8	2

Autoclave and Sterilizer Cleaner

Avoid repair costs, clean your autoclave regularly!

Click for Price

List Price $48.00 (per case of 12)

P.S. Your sterilizer should be cleaned once a week if you run the sterilizer 6 cycles per day.

Click here for MSDS Specifications

Click here for Other cleaners

Autoclave | autoclaves | sterilizer | sterilizers

For assistance call 1-800-801-9934 and ask for Mark, Shlomo, Chuck, Marcus, Irving, Jossy, Mike, Daphne, Gary, Anne, or Jasmine.
eMail@sterilizers.com

Autoclave / Sterilizer / Parts / Accessories Order Form

Your Sterilizer and Autoclave Experts
Home

Alfa Medical 59 Madison Ave, Hempstead, NY 11550
info@sterilizers.com 1-800-762-1586 fax 516-489-9364

How to order:

1. Print this page (click on the printer icon)
2. Fill in the form
3. Fax to 801-838-4341

Last name _____ First _____ Company (if applicable) _____

Address _____

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Tel # _____ Fax# _____ Email _____

What kind of sterilizer do you have now? _____

Please circle type of practice :

DDS - MD - DVM - Tattoo - Body Piercer - Lab - Hospital - Dealer - Nursing Home - Other (specify)

Part #	Quantity	Description	Cost	Sub total

* Freight - For North america, Specify [ ] Priority overnight
or [ ] regular ground.
* International parts freigt $65.00.
* email to info@sterilizers.com if you need Exact freight cost.

Freight _____

Total cost _____

Please sign _____

MC [ ] VISA [ ] Amex [ ] Discover [ ]

card # _____ exp ____/____

Please write here the 800 # of the bank which is on the back of the credit card - 1-800-_____-_____

You may also wire the money to N. Fork Bank ABA 021407912 acct# 6124005502