AMSCO Maintenance Manual

CLINICAL AUTOCLAVE

10x10x22" **Series 7018**

(12/87) **P-753817-091**

SV-5047

AMSCO | AMERICAN STERILIZER COMPANY · 2425 WEST [illegible] STREET · AMSCO 4078 · ERIE · PENNSYLVANIA 16514

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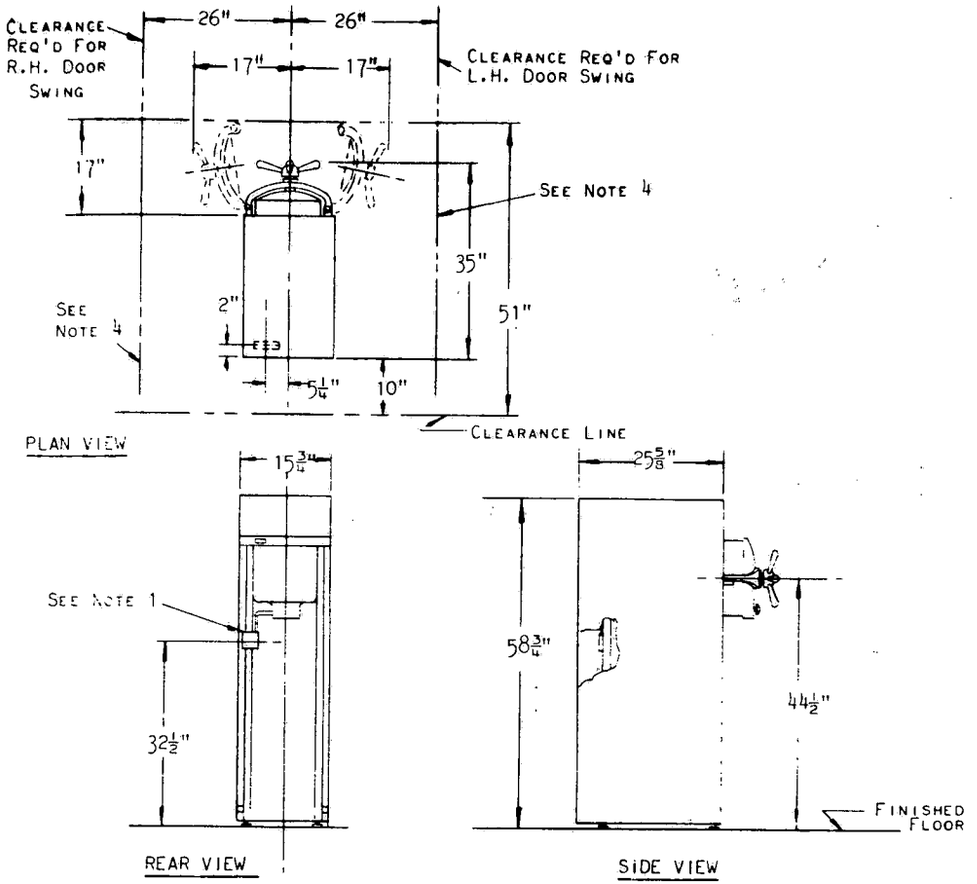
REV. 12/87



NOTES:

1. ½" CONDUIT BOX. OTHER CONTRACTORS TO PROVIDE 240 VOLTS, 60 CYCLE, 20 AMP A.C. SERVICE AND MAKE CONNECTIONS. (FUSED FOR 4000 WATTS) FOR PROPER GROUNDING, 3 WIRE CONDUCTOR MUST BE USED FOR ELECTRICAL SERVICE.
2. AMSCO ASSUMES NO RESPONSIBILITY FOR CHANGES MADE NECESSARY THROUGH FAILURE TO OBSERVE THESE INSTRUCTIONS.
3. UNIT WEIGHT 280 LBS.
4. CLEARANCE INDICATED IS TO PROVIDE WORK SPACE FOR SERVICING WHERE ADJACENT EQUIPMENT IS PORTABLE, THIS DISTANCE MAY BE REDUCED.

AMERICAN STERILIZER CO., ERIE, PA.
10"x10"x22" CLINICAL MODEL AUTOCLAVE OPEN MOUNTED, ELECTRIC HEAT
DOOR SWING RH ☐ LH ☐ ITEM NO._____ ROOM NO._____ DWG. NO. ■ 60232

M100

REV. O SUPERSEDES F-21526

AMSCO

"AMERICAN" 10x10x22 CLINICAL AUTOCLAVE | OPERATING INSTRUCTIONS

P-83100-001
(9/28/78)

WARNING
LIQUID STERILIZATION

To prevent possible personal injury or property damage resulting from bursting bottles and hot fluid, you must follow the recommended procedure listed below:

RECOMMENDED PROCEDURE:

- **Use only vented closures — do not use screw caps or rubber stoppers with crimped seal.**
- **Use only Type 1 borosilicate (Pyrex) glass bottles — do not use ordinary glass jugs or any container not designated for sterilization.**
- **At end of cycle, open sterilizer door, no more than ½ inch. Wait 10 minutes before unloading sterilizer.**
- **Do not allow hot bottles to be jolted. This can cause hot-bottle explosions! Do not move bottles if any boiling or bubbling is present.**
- **Bottles should be cool to touch before attempting to move them from sterilizer loading car or shelves to the storage area.**

OPERATING INSTRUCTIONS

1 **Preliminary Preparation** — Turn timer, thermostat and operating handle to "OFF" position. Pull sliding top panel forward until it stops and open lid on cover of reservoir. Pour distilled or softened water into reservoir until gauge on front of panel indicates "FULL" (Reservoir Capacity 15 Quarts). Allow 10 minutes for water to reach the measuring chamber.

NOTE: CHECK THE WATER LEVEL EACH DAY.

To speed the first sterilizing cycle when starting with a cold autoclave, it is suggested that the following procedure be followed. Approximately 30 minutes before using autoclave turn thermostat knob to the desired temperature setting and push red reset button. The red signal light will glow, indicating that the current to the heaters is on. The autoclave door should be kept closed to conserve heat. The autoclave will continue to heat for about 30 to 35 minutes at this setting and will automatically turn off if the autoclave is not used during this period of time. When the red pilot light goes out, this indicates that the chamber has been sufficiently heated. The autoclave cannot be reset until it is used for a sterilizing cycle or until the chamber has cooled.

2 **Timer** — The knob may be turned clockwise from "OFF" position to any time setting. The total time involved in the sterilizing period, in any case, will be longer than the period for which the timer is set. This is due to the additional time required to bring the chamber to sterilizing temperature. The timer automatically engages only when the chamber is up to the selected temperature as indicated on the thermometer. Completion of the exposure period will be signalled by a buzzer, which will continue buzzing until unit is reset for the next cycle.

3 **RECOMMENDED EXPOSURE PERIOD**

	250°F.	270°F.
Instruments without towel covers	15 Min.	3 Min.
Instruments with towel covers	20 Min.	7 Min.
Dressings and small packs in muslin covers	20 Min.	
Utensils, syringes and glassware, covered	15 Min	3 Min.
Rubber gloves and tubing in muslin covers	15 Min.	
Solutions (125-200 ML Pyrex Flasks)	20 Min.	
Solutions (50 ML Pyrex Flasks, Test Tubes up to 100 MM)	15 Min.	

WARNING

TO PREVENT POSSIBLE PERSONAL INJURY RESULTING FROM BURSTING BOTTLES AND HOT FLUID, USE ONLY BOROSILICATE (PYREX) FLASKS WITH VENTED CLOSURES FOR STERILIZING LIQUIDS.

• SEE PAGE 4 FOR FURTHER INFORMATION

4 **Operational Technique** — Load Autoclave, close and tighten door, but not excessively. Turn "Operating Handle" to "Ster.", and recheck the thermostat knob-setting to coincide with the above temperature chart and set timer knob at recommended exposure period. If the red signal is not on, press reset button to turn on current to heaters. No other mechanical operation is necessary until the end of the exposure period, since the unit now functions automatically.

Information — When the operating handle is turned to "Sterilize," the main heaters come on and a measured amount of water is released into the chamber well. Within a short period of time, steam is generated and the temperature begins to rise. The locked-in air settles to the bottom of the chamber and gradually is forced out through an air-eliminating system which is controlled by a thermostatic trap which locks only after all the air has passed from the chamber. When the thermometer reaches the desired temperature, this is the beginning of the exposure period. Should the thermometer reading indicate a temperature above or below the thermostat knob setting, this does not mean that the Autoclave is functioning improperly. Some variances may prevail, but always work from the thermometer reading, because the thermostat numerical setting is only an approximation.

This can be adjusted by turning the thermostat knob clockwise or counter-clockwise depending upon the required thermometer reading adjustment. If the thermostat knob has been turned to its full extent and thermometer does not reach 270° minimum, this is an indication that thermostat will have to be adjusted.

The unit is equipped with a safety valve which will protect the chamber from over-pressure conditions. When the safety valve opens, it is merely signalling the release of excess pressure from within the chamber. The Autoclave can still be operated with safety, until the arrival of your dealer's serviceman, by reducing the setting on the thermostat knob. In the event the Autoclave shuts off during a cycle, it means there is insufficient water in the chamber well. This can be corrected by turning the operating handle to "OFF" and allow 10 minutes for water from the reservoir to fill the measuring cylinder. Then turn the operating handle to "Sterilize" and press the red reset button to start the sterilizer.

5 **To Exhaust and Dry Load** — When the buzzer signals the end of exposure period, turn timer knob and operating handle to "OFF." A gurgling sound will indicate that the steam and unused water in the chamber is being exhausted into the reservoir. Leave door closed until thermometer indicates 212°F; then open door about ¼" to allow cool air from room to enter chamber gradually. The heaters will stay on low heat after door is opened to accelerate drying. After 15 minutes turn off heaters by turning thermostat setting to zero, and remove trays from Autoclave. Close door (leave slightly ajar) so that radiated heat is contained within the chamber. This will benefit the following cycle.

6 **Reloading** — Wait at least 5 minutes after removing trays from previous cycle before starting the next one. After that, the process is repeated as outlined above.

7 ### ARRANGEMENT OF LOADS

(a) **Instruments:** For routine sterilization of washed instruments use only trays with perforated bottoms as supplied with the Autoclave. Place a layer of muslin or towel in bottom of tray, arrange instruments in any desired order, and then cover instruments with a final layer of muslin or towel to facilitate drying and to prevent contamination in transit.

(b) **Surgical Dressings, small packs and rubber gloves:** These supplies should always be wrapped in muslin, and placed on edge (never flat) in the Autoclave tray to assure ample steam circulation. Under no conditions permit crowding of packs into large or dense masses.

(c) **Empty Glassware and Utensils** — Place all containers, items of glassware and utensils (wrapped or not) on their sides or in the inverted position in the Autoclave tray.

(d) **Solutions:** Remove trays from chamber of Autoclave to accommodate flasks of 1000 ml or less capacity or racks of test tubes. Flasks of smaller capacity may be sterilized directly in the trays.

MAINTENANCE INSTRUCTIONS

1 ***The Door*** - To assure ease of operation and long life, place a small amount of high temperature grease periodically on screw threads of locking handle.

2 ***The Door Gasket*** - When door fails to close steam-tight under normal closing pressure, without straining handwheel, renew gasket. Gasket may be secured through the dealer from whom you purchased this autoclave.

When removing old gasket, scrape groove in door clean. Gasket is cut to a snug fit in groove and must be forced in, a short section at a time, without stretching. Should gasket appear to be too long, do not cut it but start over again, compressing short sections as inserted in groove, to take up full length.

3 ***Signal Lamp*** - To replace a burned out lamp, unscrew lamp lens, push in on lamp, and turn counter clockwise to remove from socket. Insert lamp by placing in socket and turning clockwise. Pilot Lamp NE-51, Miniature Bayonet Type Base. Now screw lamp lens back into place.

4 ***Care of Chamber*** - The chamber is constructed with a removable inner liner. This liner must be removed at least once each month for inspection and cleaning of the outer chamber or steam jacket to remove lime and scale deposits on the heating surface. This is necessary to maintain maximum heating efficiency. To withdraw the liner from the Autoclave, remove the knurled strainer screw at the bottom center and lift out the drain tube fitting at the bottom rear of the liner.

For repairs or the replacement of parts not covered by the above routine maintenance suggestions, contact the dealer through which this Autoclave was purchased. Always mention the Serial and Model Number of the unit when writing in reference to or when ordering replacement parts.

REPLACEMENT PARTS

Name	Part No.	Req'd.
Light — Pilot	P-29517-091	1
Valve — Safety	P-150498-091	1
Lamp NE-51 (Box of 10)	P-764317-708	1
Thermometer	P-13638-091	1
Gasket — Heater	P-12854-091	2
Heater	P-27332-A-091	2
Thermostat	P-22446-091	1
Switch	P-32959-091	1
Gasket — Door	P-74375-091	1
Bellows — Measuring Chamber	P-12258-091	1
Gasket — Measuring Chamber	P-28198-091	1
Timer Assembly	P-136009-002	1

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LIQUID STERILIZATION

Your AMSCO Sterilizer is designed to process liquids when borosilicate (Pyrex) flasks with vented closures are used.

Borosilicate (Pyrex) glass is recommended because it is a superior glass capable of containing higher pressures, of resisting thermal shock (such as cold air striking the hot glass), and of withstanding repeated handling.

Vented closures are recommended because, by design, they will prevent excess pressure by automatically venting a flask!

If other types of glass (such as flint glass) and non-venting (sealed) closures are used to sterilize liquids in your AMSCO Sterilizer; a potential dangerous condition, capable of causing personal injury and property damage, is created. As the liquid and residual air in a sealed flask are heated, they expand and create an internal pressure greater than the external pressure of the steam. With the weaker glass, a greater potential for bursting exists.

After the sterilization exposure, the chamber is exhausted slowly but it still exhausts more rapidly than the pressure within a sealed flask.

This pressure within the flask will exist until the residual air and the liquid have cooled (unlike a flask with a vented closure that prevents this excess pressure). Thus, the potential exists for the flask to burst and cause personal injury or property damage.

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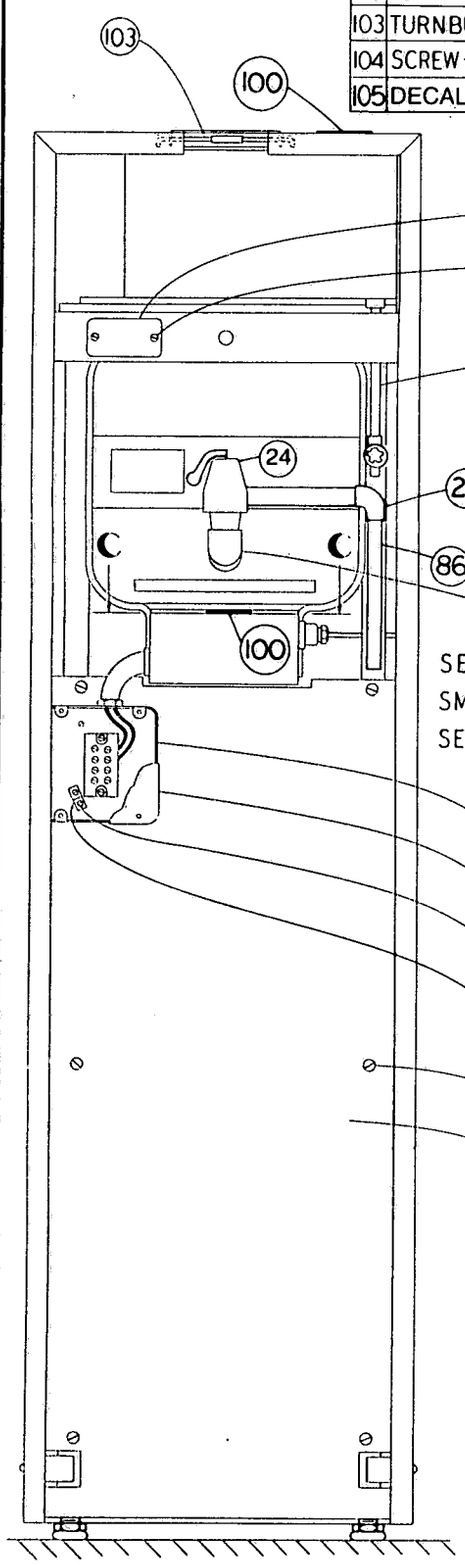
*Note 1: Dial Plate, 31264, used on Units built before 10-1-74. Dial Plate, 134171, and Decal, 83073, (item 105) used on units built after 10-1-74.

NO.	NAME	PT. NO.	RD.
96	NUT - HEX. JAM 5/8"-11	33961-045	4
97	SPACER	31334-042	2
98	PLATE - BOTTOM	31333-010	1
99	PLATE - BACK	31332-010	1
100	LABEL-CAUTION	150369-001	2
101	PLATE - DIAL *	134171-001	1
102	CONNECTOR TERMINAL	14166-091	1
103	TURNBUCKLE	42266-061	1
104	SCREW - SELF TAP	23437-041	6
105	DECAL — DIAL	83073-002	1



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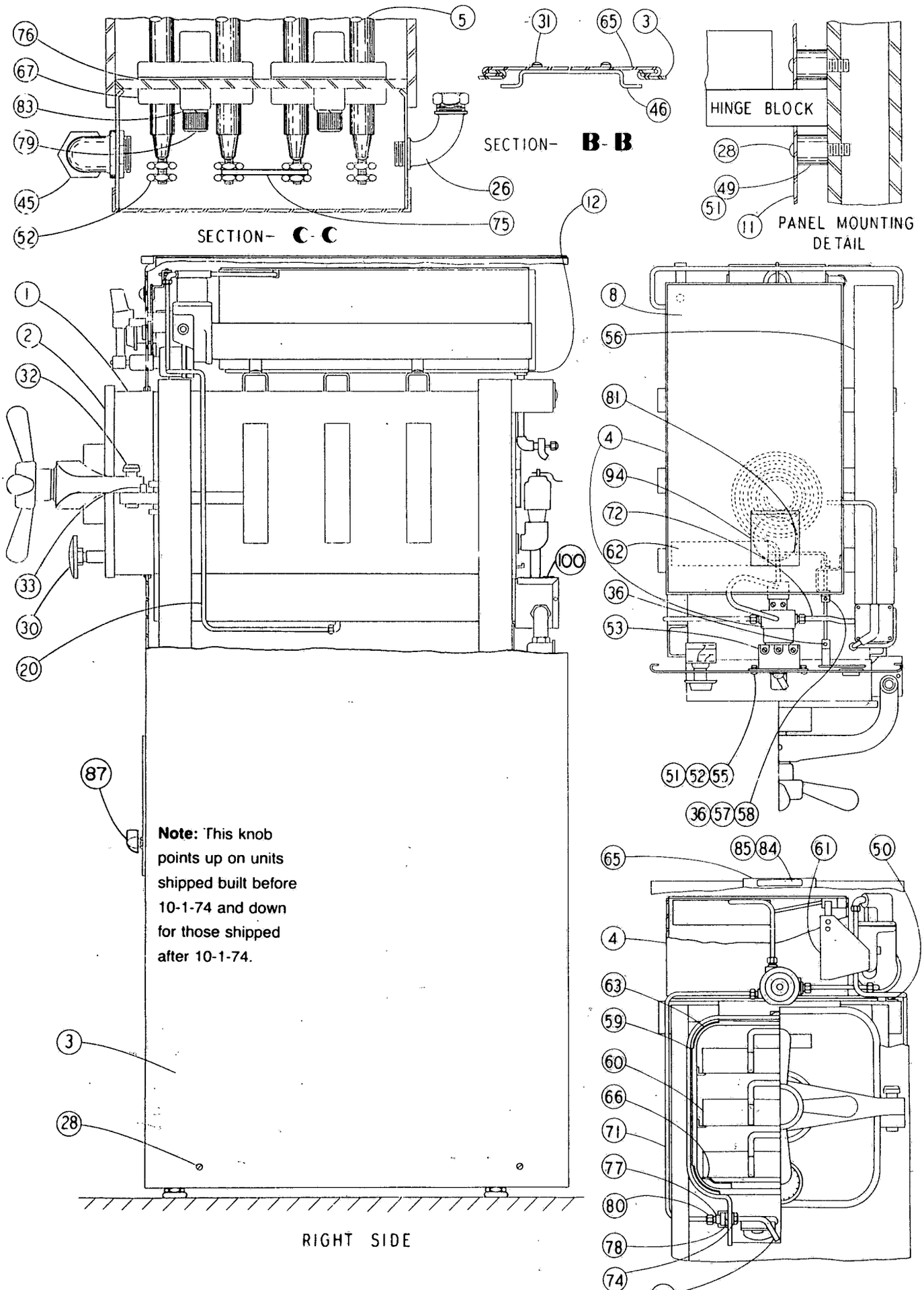
REAR

NO.	NAME	PT. NO.	RD.
48	NIPPLE	28905-091	1
49	SPACER	42284-091	6
50	SCREW-TRUSS HD.	10859-041	2
51	LOCKWASHER	19685-061	8
52	NUT-HEX. #10-32	2960-042	10
53	SWITCH	32959-091	1
54	COVER-CONDUIT-B.	22614-091	1
55	SCREW-RD. HD.	9374-041	2
56	CHAMBER-MEAS.	30304-091	1
57	WASHER	27324-091	2
58	BUSHING	27325-042	2
59	LINER ASSY.	27300-061	1
60	TRAY ASSY.	27366-063	3
61	GAUGE-INDICATOR	27360-091	1
62	FLOAT ASSY.	30763-091	1
63	PACKING-LINER	37274-002	1
64	TUBE ASSY.	27320-042	1
65	PANEL-TOP FRONT	30466-010	1
66	SHELF	27361-061	1
67	CLAMP-HEATER	12823-091	2
68	PLATE-NAME	33944-091	1
69	BOX-TERMINAL ASY.	31331-091	1
70	SCREW-OVAL HD.	18976-048	1
71	TUBE-FILL	30470-091	1
72	TUBE	30471-091	1
73	PLATE-NAME	27043-091	1
74	GASKET	22448-091	1
75	JUMPER-LINK	14278-091	1
76	GASKET-HEATER	12854-091	2
77	NUT-HEX.-JAM	15359-042	1
78	LOCKWASHER 5/8"	19692-061	1
79	SCREW-SOCKET	15339-045	2
80	FITTING-COMPR.	6695-044	1
81	ROD	27329-061	1
82	SCREW-DRIVE	13289-045	2
83	LOCKWASHER 3/8"	19687-061	2
84	HANDLE	33137-091	1
85	SCREW-RD. HD.	33742-041	2
86	NIPPLE	29334-091	1
87	KNOB	14378-091	1
88	SCREW-TRUSS HD.	8129-042	4
89	RECEPTACLE	75077-091	1
90	LOCKWASHER #6	19675-041	4
91	CHASSIS-TIMER	136009-001	1
92	CLAMP	33943-061	2
93	SCREW-HEX. CAP	12552-061	6
94	LID	33940-061	1
95	NUT - HEX. #6-32	3037-041	4

BILL OF MATERIAL

NO.	NAME	PT. NO.	RD
1	SHELL & FRAME	27327-010	1
2	DOOR ASSY.	39135-091	1
3	PANEL - SIDE ASSY.	30469-010	2
4	PAN - WATER ASSY.	30476-NLA	1
5	HEATER ASSY.	27332-091	2
6	CAP ASSY.	27338-042	1
7	SCREW-RD. HD.	4003-051	2
8	COVER-ASSEMBLY	33957-061	1
9	THERMOSTAT	22446-091	1
10	PANEL-LOWER ASY.	75090-061	1
11	PANEL-UPPER	27357-061	1
12	BOARD-INSUL.	29526-091	2
13	HOLDER-GLASS	22443-051	1
14	SPACER	27298-091	1
15	PLATE-HEATER	27333-061	2
16	PLATE-DIRECTION	41027-091	1
17	PLATE-NAME	33114-091	1
18	TUBE - DRAIN	27336-042	1
19	COVER-HEATER	27341-010	1
20	TUBE-EXHAUST	30450-091	1
21	MOLDING 42"LG.MC.	3000-965	1
22	NIPPLE	29302-091	1
23	LIGHT-PILOT	29517-091	1
24	VALVE-SAFETY	763710-001	1
25	LAMP - NE-51	23883-091	1
26	ELL - CONDUIT 90°	25388-091	1
27	PANEL-TOP REAR	43416-010	1
28	SCREW-BUTTON	37344-048	20
29	ELBOW	1635-051	1
30	THERMOMETER	13638-091	1
31	SCREW-BINDER	20823-061	4
32	SCREW-RETAINER	13841-062	1
33	STUD	13198-061	1
34	SCREW - RD. HD.	9315-041	2
35	FITTING-COMPR.	6750-044	1
36	SCREW-SET	34518-061	3
37	SCREW-RD. HD.	12451-041	2
38	NIPPLE 1/2"x1 3/4"	29165-051	1
39	LOCKWASHER 5/16"	19691-061	6
40	ELL	1633-051	1
41	COCK-DRAIN ASY.	18543-051	1
42	ELBOW	1614-091	1
43	FLANGE-FLOOR	27570-045	4
44	RING-RETAINING	30580-091	1
45	ELBOW 90°	25389-091	1
46	STOP	33939-091	1
47	HANDLE	30460-051	1

10 X 10 X 22 CLINICAL AUTOCLAVE



FOR BILL OF MATERIAL SEE SHEET 1 OF 3

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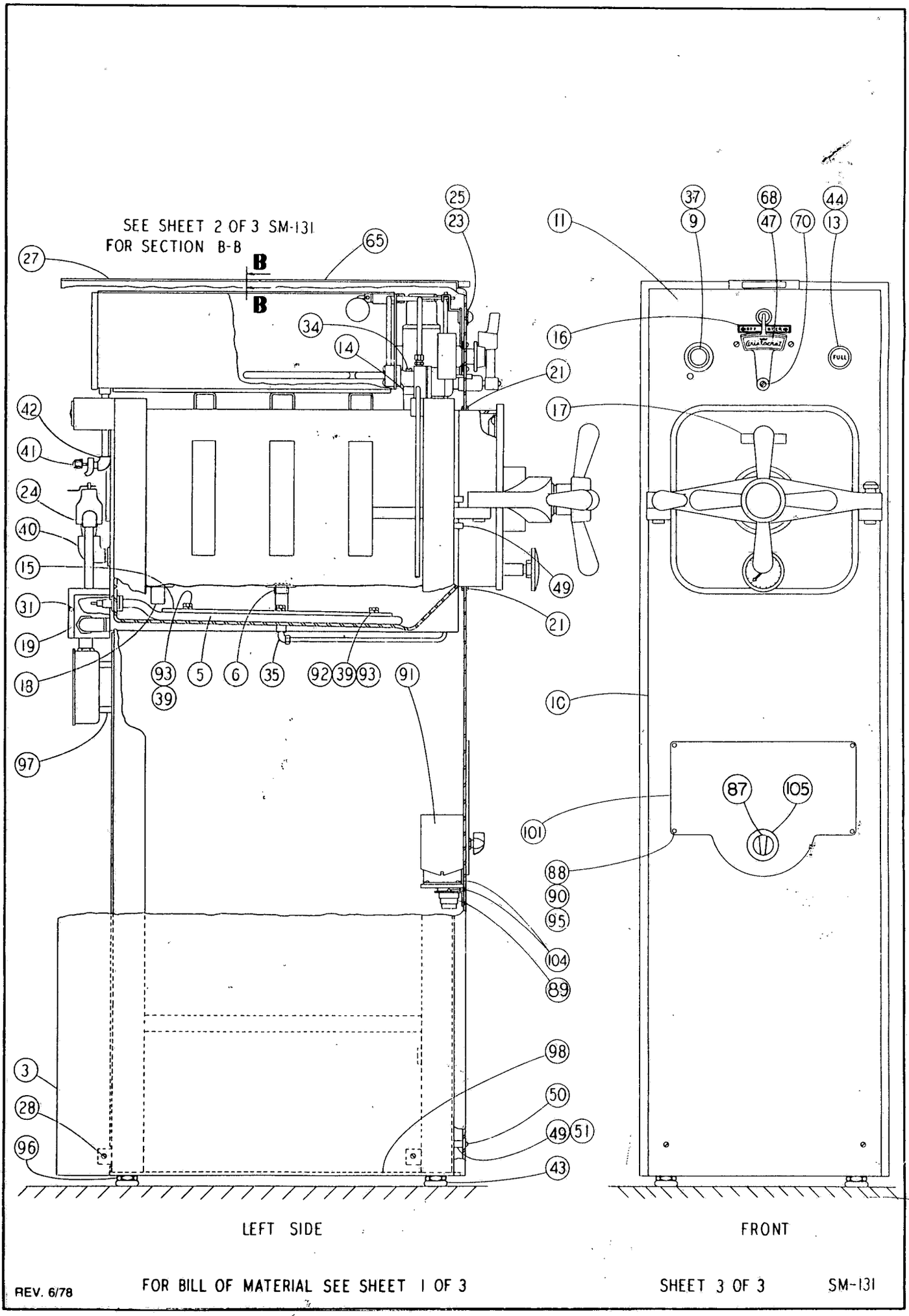

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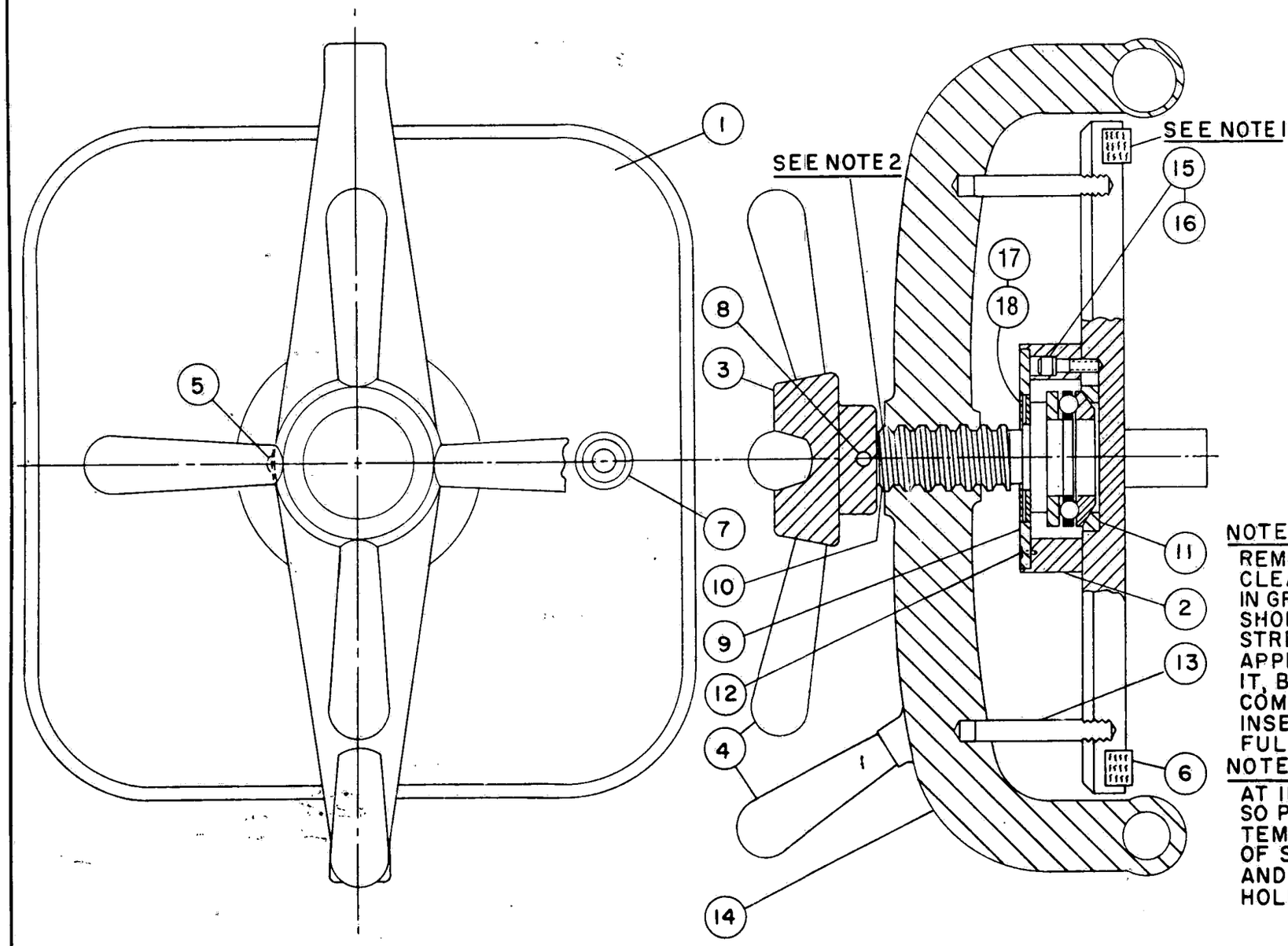
SHEET 3 OF 3 SM-131



BILL OF MATERIAL			
NO.	NAME	PART NO.	RQ.
1	PLATE, DOOR	39136-034	1
2	RING, DOOR POST	39132-034	1
3	HUB	13195-057	1
4	HANDLE	14108-091	5
5	OILER	14178-091	1
6	GASKET	74375-091	1
7	NIPPLE, THERM.	41552-056	1
8	PIN, GROOVE	29848-045	1
9	PLATE	150312-001	1
10	POST, DOOR	13196-091	1
11	BEARING (4 PIECE SET)	13700-091	1
12	SCREW	11249-041	4
13	PIN, LOCATING	39133-061	2
14	BAR, LOCK R.H. BAR, LOCK — L.H.	13698-056 14665-056	1 1
15	SCREW, SOC. HD.	12176-041	3
16	LOCKWASHER	10436-041	3
17	NEEDLE THRUST BEARING	P-48267-091	1
18	THRUST BEARING RACE	P-78954-091	2

NOTE 1

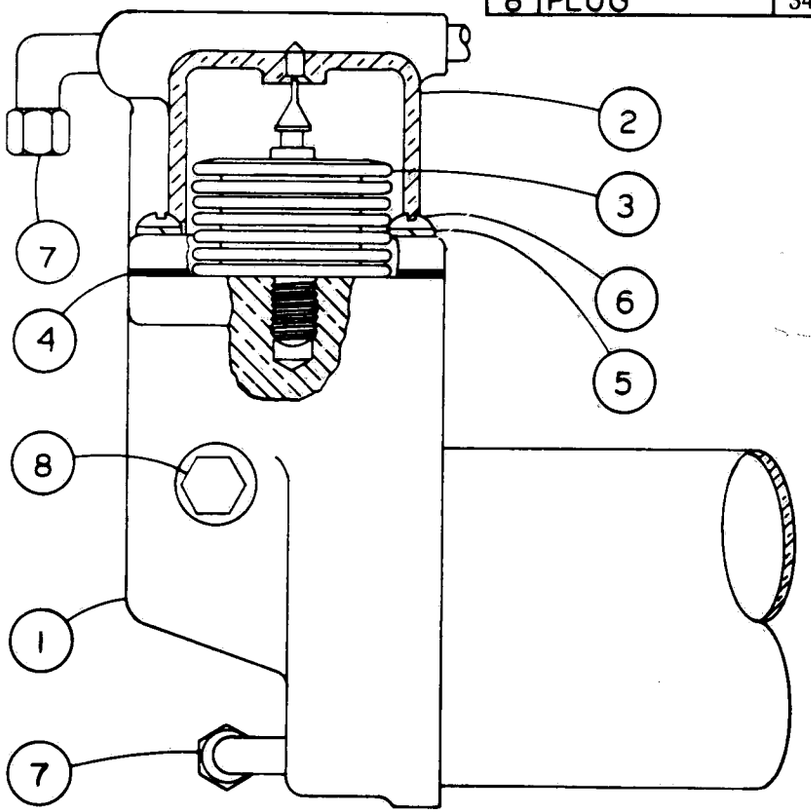
REMOVE OLD GASKET, SCRAPE GROOVE CLEAN. GASKET IS CUT TO A CLOSE FIT IN GROOVE AND MUST BE FORCED IN, A SHORT SECTION AT A TIME, WITHOUT STRETCHING. SHOULD GASKET APPEAR TO BE TOO LONG, DO NOT CUT IT, BUT START OVER AGAIN, COMPRESSING SHORT SECTIONS AS INSERTED IN GROOVE, TO TAKE UP FULL LENGTH.

NOTE 2

AT INTERVALS OF THREE MONTHS OR SO PUT A SMALL AMOUNT OF HIGH TEMPERATURE GREASE ON THREAD OF STUD ON WHICH DOOR CENTERS AND A FEW DROPS OF OIL IN OIL HOLE BACK OF HANDWHEEL.

DOOR ASSEMBLY

BILL OF MATERIAL			
NO	NAME	PT. NO.	R'D
1	CHAMBER	27346-091	1
2	COVER	27304-091	1
3	BELLOWS	12258-091	1
4	GASKET	28198-091	1
5	LOCKWASHER	19678-045	4
6	SCREW	3999-051	4
7	FITTING	6750-091	2
8	PLUG	3439-051	1



MEASURING CHAMBER
P-30304-091

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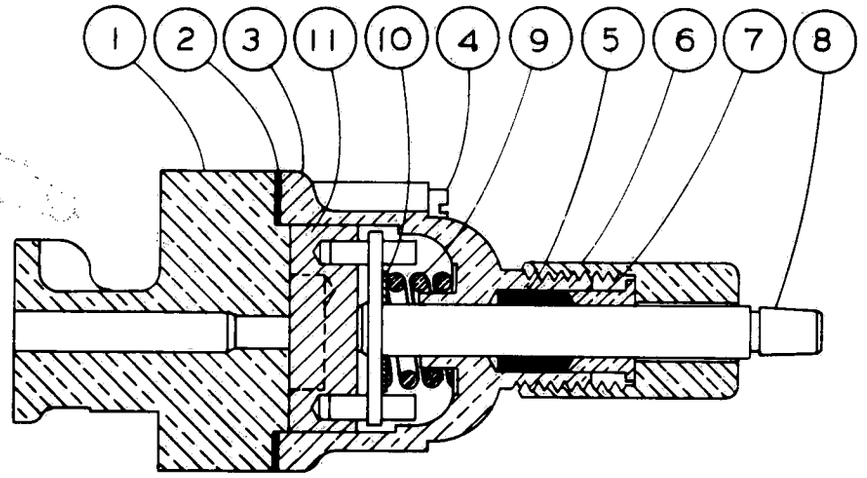
BILL OF MATERIAL			
NO	NAME	PT. NO.	R'D
1	BASE	14232-091	1
2	GASKET	14234-091	1
3	BONNET	14233-091	1
4	SCREW-FIL.	14257-061	3
5	PACKING	46355-091	2
6	NUT-PACK'G	14236-051	1
7	GLAND	7755-042	1
8	STEM ASSY.	21281-061	1
9	SPRING	9280-061	1
10	WASHER	10414-042	1
11	SEAT-VALVE	20512-091	1



OPERATING VALVE ASSEMBLY P-30541-091

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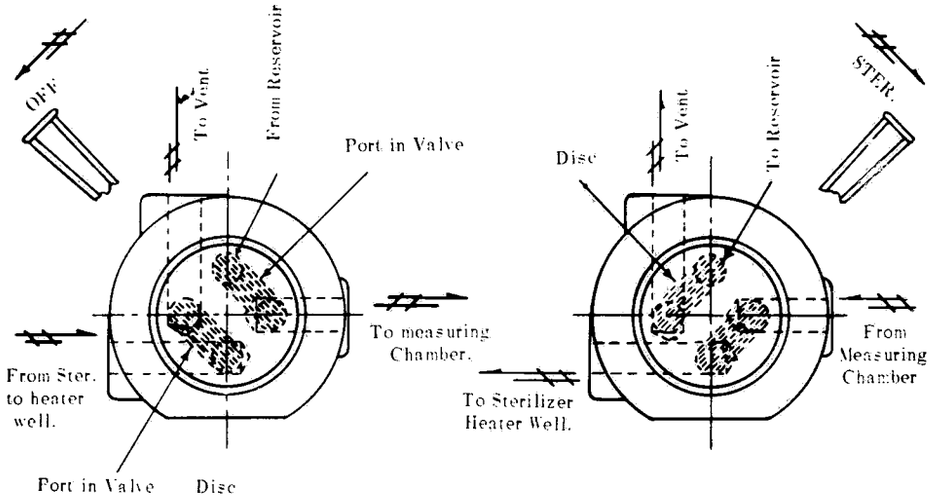

PRINCIPLE OF OPERATING VALVE

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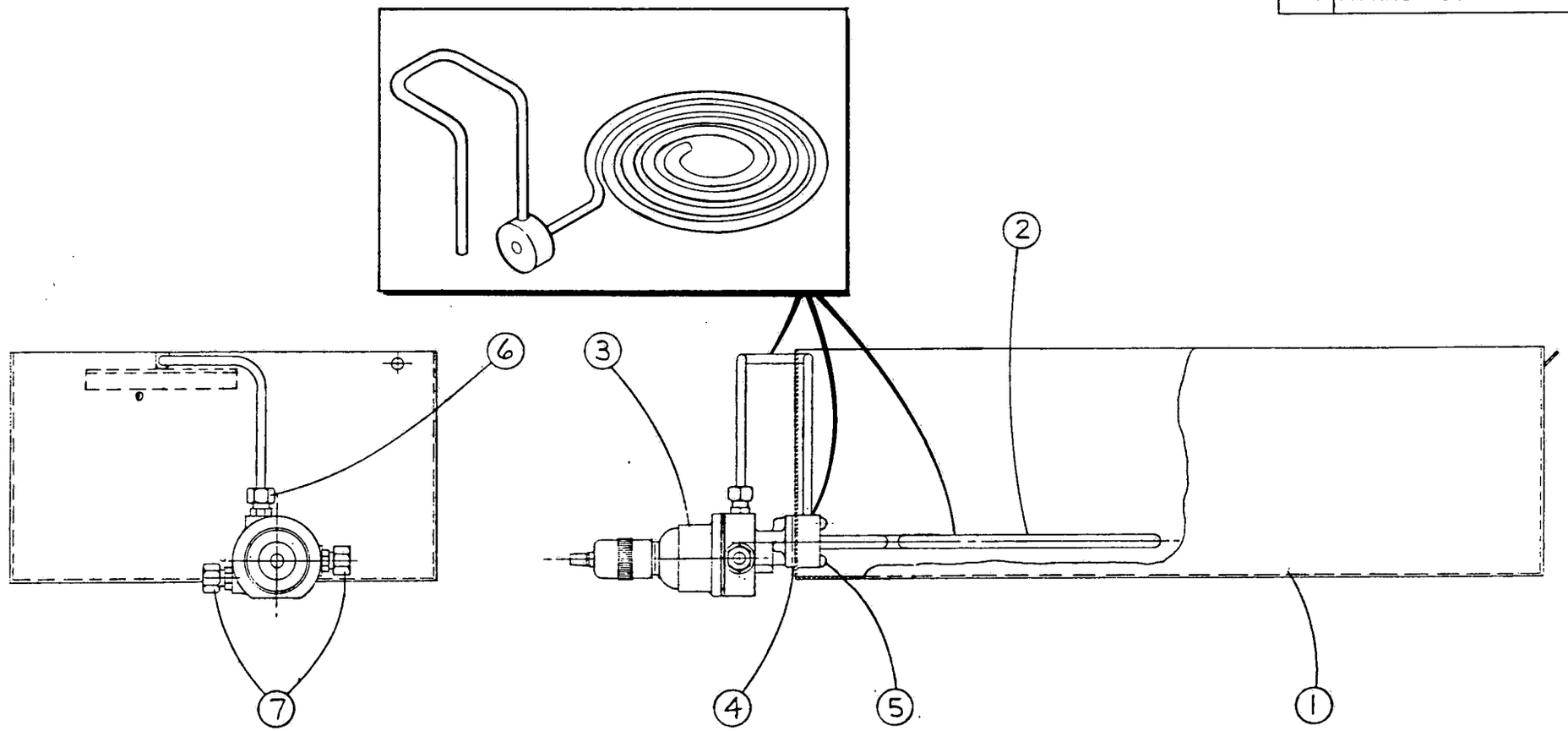
BILL OF MATERIAL			
NO.	NAME	PT. NO.	R'Q.
1	WATER PAN	27350-A	1
2	COIL - CONDENSER	30499-A	1
3	OPERATING VALVE	30541-091	1
4	GASKET	14245-091	1
5	SCREW - RD. HD.	9314	3
6	FITTING - COMPRESSION	19514-091	1
7	FITTING - COMPRESSION	6695-091	2



PAN-WATER ASSEMBLY 30476-A

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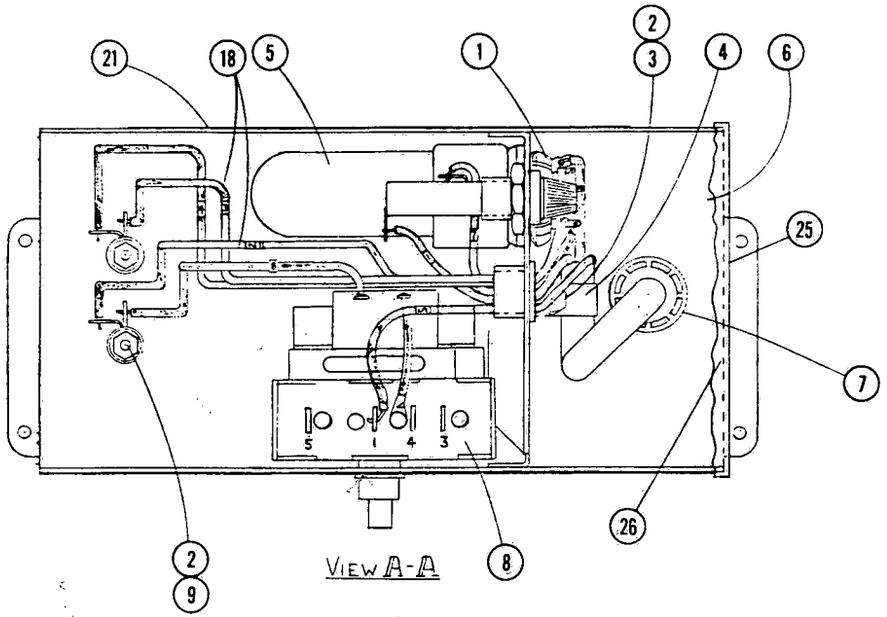
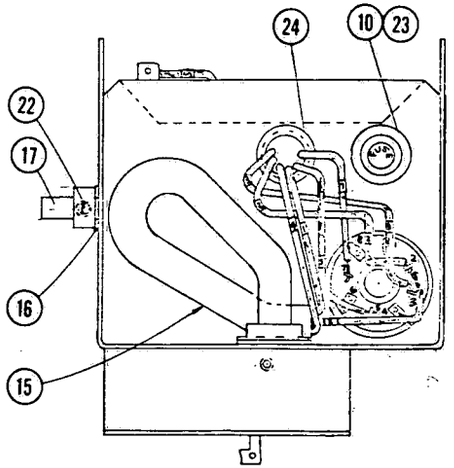
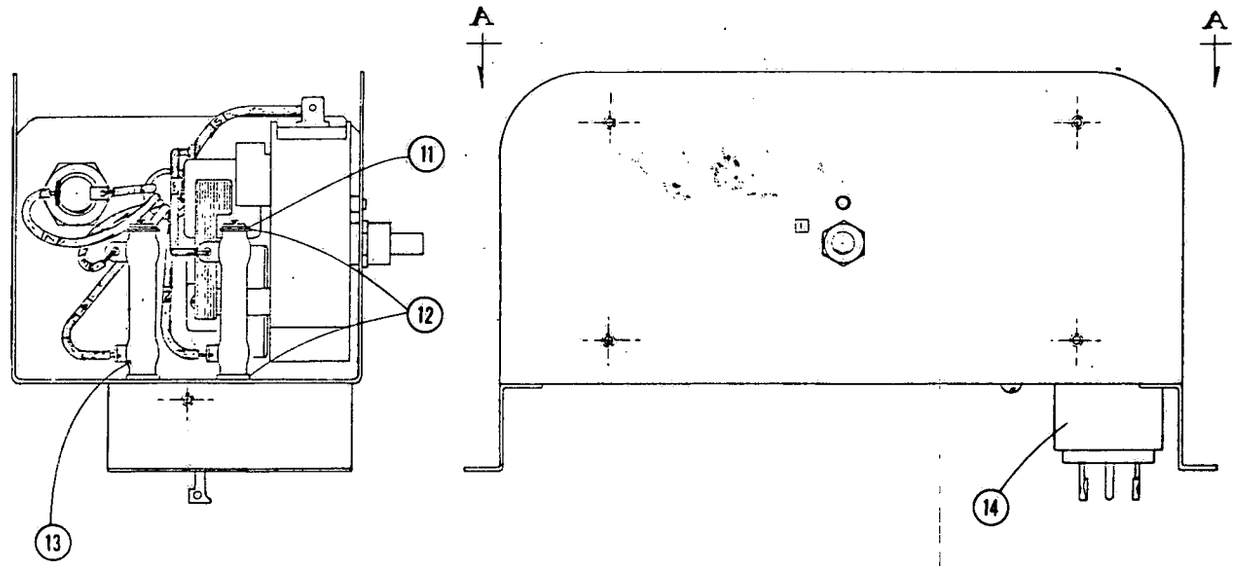






BILL OF MATERIAL

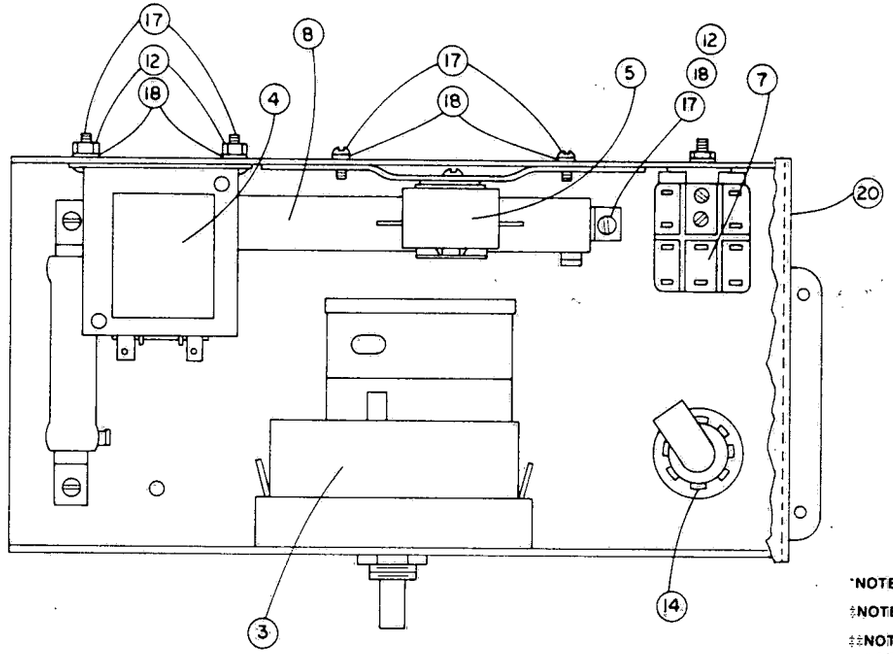
NO.	PT. NO.	NAME	R'Q.
	134059-001	CHASSIS (TIMER) ASSEMBLY	X
1	25842-091	SOCKET, OCTAL	1
2	8129-042	SCREW, TRUSS HD. (6-32 x 3/8)	1
3	3037-041	NUT, HEX (6-32)	3
4	26720-091	CLAMP, TUBE (1/4 ALUM)	1
5	25839-091	RELAY, THERMAL	1
6	75086-063	CASE ASSEMBLY	1
7	24539-091	RING, RETAINING	1
8	55953-001	TIMER	1
9	20824-045	SCREW, RD. HD. (6-32 x 2-1/4)	2
10	20340-091	FUSE HOLDER	1
11	17796-091	WASHER, BRASS	2
12	19712-091	WASHER, MICA	8
13	18159-091	RESISTOR (2500 Ω -10 WATT)	2
14	75082-091	BUSHING	1
15	75089-091	WIRE AND PLUG ASSEMBLY	1
16	25853-045	NUT, HEX (3/8-32)	1
17	25844-091	BUSHING	1
18	26710-091	WIRE, BLACK	2
19	25847-061	COVER (NOT SHOWN)	1
20	12800-042	SCREW (6-32 x 3/16) (NOT SHOWN)	2
21	75091-091	WIRING DIAGRAM	1
22	27429-091	SCREW, SET (8-32 x 3/16)	1
23	33810-091	FUSE	1
24	77798-091	BUSHING, SNAP	1
25	82674-001	DECAL, CAUTION	1
26	82645-001	DECAL, WARNING	1

TIMER ASSEMBLY

(For Units Built Between Oct. 7, 1970 and Sept. 30, 1974)

134059-001

Rev. 4/85



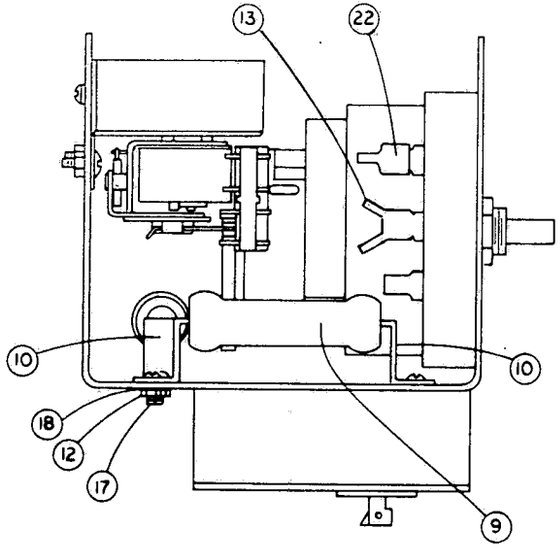
BILL OF MATERIAL			
NO	PT. NO.	NAME	R'O
1	136009-001	TIMER ASSEMBLY	X
2	136010-001	CHASSIS ASSEMBLY	1
3	83035-001	TIMER WITH KNOB, CRAMER 271 — 60 MIN.	1
4	80518-091	RELAY, TIME DELAY (180 SEC.)	1
5	79739-001	BUZZER	1
6	12529-061	SCREW, R.H. (6-32 X 1/4)	2
7	41295-091	RELAY	1
8	83036-001	RESISTOR (500 Ω-50 WATT)	1
9	83037-001	RESISTOR (1500 Ω-25 WATT)	1
10	83041-001	BRACKET, MTG.	4
11	82674-001	LABEL, CAUTION (NOT SHOWN)*	1
12	3037-041	NUT, HEX (6-32)	6
13	32118-091	ADAPTOR, TERM.	2
14	24539-091	RING, RETAINING	1
15	75082-091	BUSHING	1
16	92643-001	PLUG ASSEMBLY**	1
17	12531-061	SCREW R.H. (6-32 X 3/8)	8
18	19675-041	WASHER, LOCK (#6)	8
19	83030-001	STICKER, W.D. For Units Built Between 10/74 and 3/75 (NOT SHOWN)‡	1
	83030-002	STICKER, W.D. For Units Built Between 3/75 and 4/76 (NOT SHOWN)‡	1
	83030-003	STICKER, W.D. For Units Built After 4/76 (NOT SHOWN)‡	1
20	25847-061	COVER	1
21		WIRE, BLACK (87 IN. LG)‡‡	1
22	81400-001	TERMINAL Q.C.	7
23	77299-091	WIRE TIES (NOT SHOWN)	3

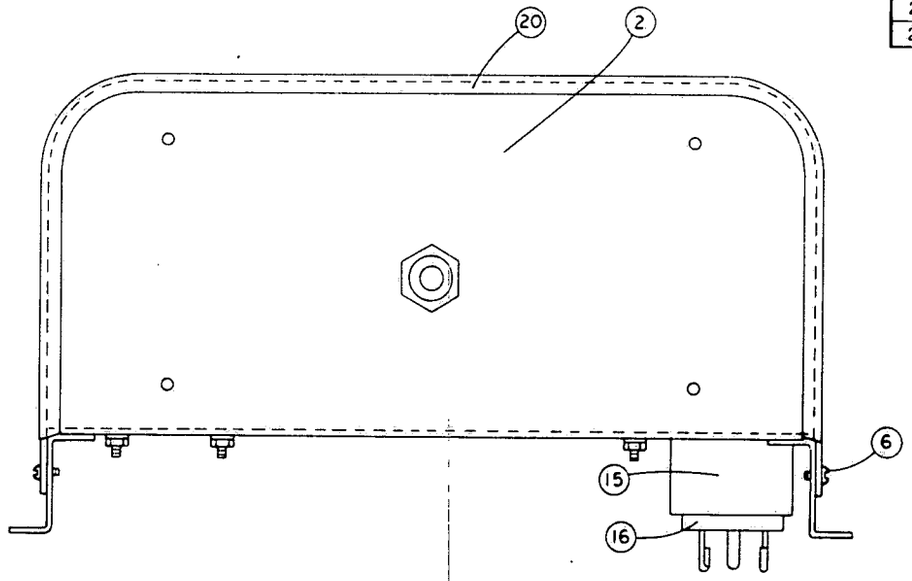
*NOTE 1: Place caution label on the outside of cover (20).

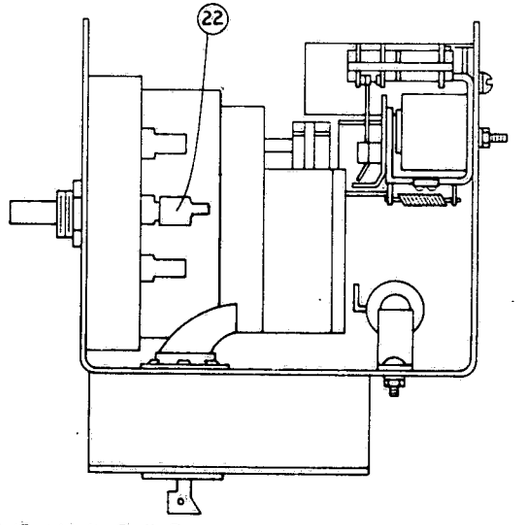
‡NOTE 2: Place wiring diagram on the inside of cover (20).

‡‡NOTE 3: No. 18 stranded copper wire, thermoplastic insulation, 16/30 str., 300 V min., 105 C min. UL label required.

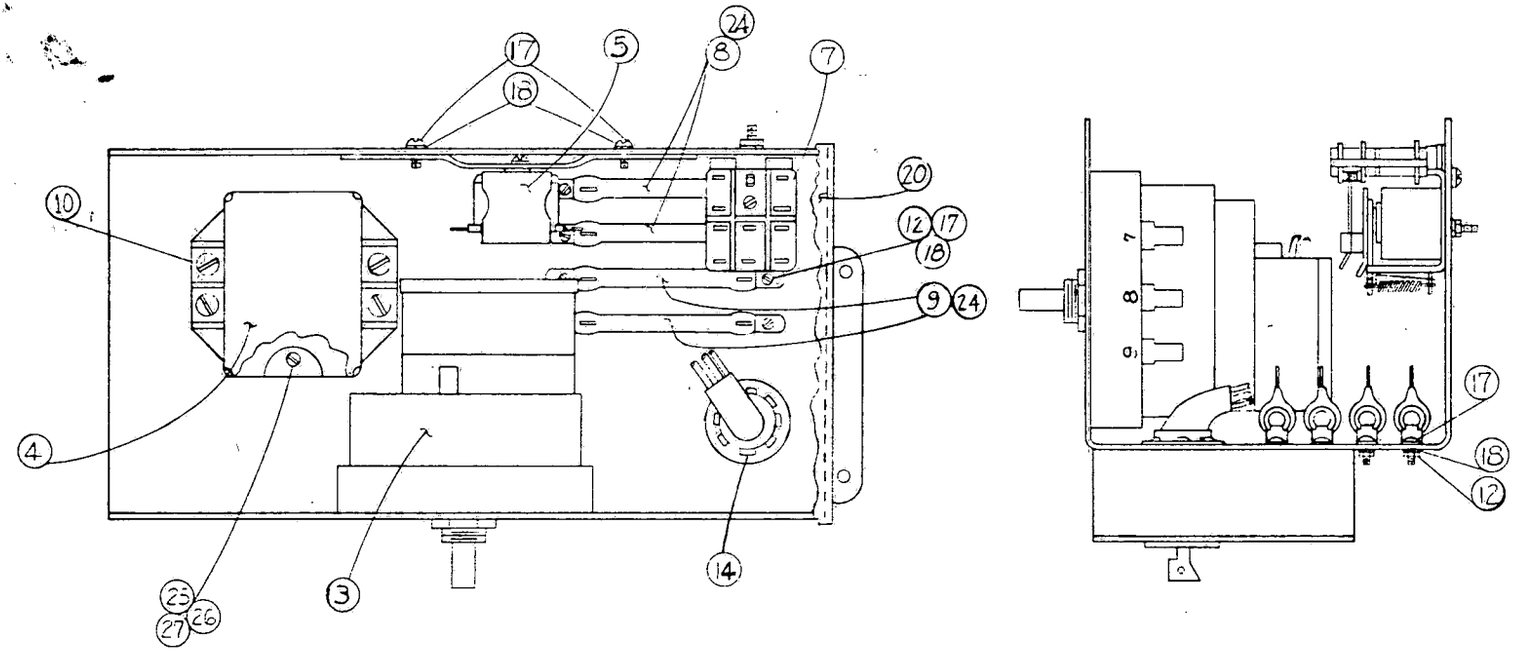
**NOTE 4: 92643-001 is a new plug assembly with a round post in the center. The part number of the female receptacle for the plug is P-75077-091.

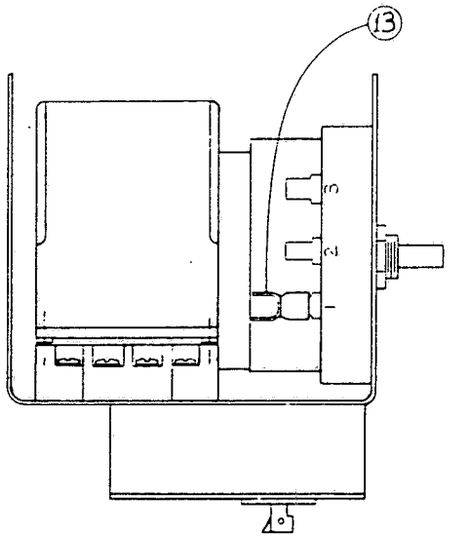


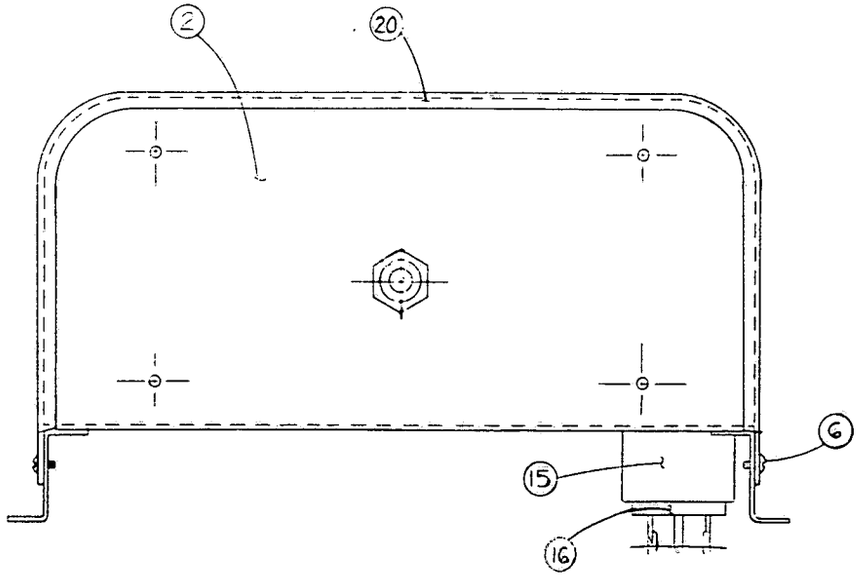




TIMER ASSEMBLY (For Units Built Between Oct. 1, 1974 and May 31, 1983) REV. 8/83 SM-136A







BILL OF MATERIAL			
NO.	PT. NO.	NAME	R'Q.
1	136009-002	TIMER ASSEMBLY	X
2	136010-002	CHASSIS ASSEMBLY	1
3	83035-001	TIMER, CRAMER 271-60 MIN.	1
4	150822-044	RELAY, TIME DELAY (180 SEC.)	1
5	79739-001	BUZZER ASSEMBLY	1
6	12800-042	SCREW (6-32 x 1/4)	2
7	41295-091	RELAY	1
8	150822-045	RESISTOR (3900 Ω -12 WATT)	2
9	150822-046	RESISTOR (4700 Ω -12 WATT)	2
10	150822-157	SOCKET	1
11	82674-001	LABEL, CAUTION (NOT SHOWN)*	1
12	3037-041	NUT, HEX (6-32)	8
13	32118-091	ADAPTOR, TERM.	1
14	24539-091	RING, RETAINING	1
15	75082-091	BUSHING	1
16	56396-019	PLUG ASSEMBLY	1
17	12531-061	SCREW, RD. HD. (6-32 x 3/8)	10
18	19675-041	WASHER, LOCK (#6)	10
19	83030-005	STICKER, W.D. (NOT SHOWN)**	1
20	25847-061	COVER	1
21		WIRE, BLACK (#3, 99 IN. LG.)†	1
22	81400-001	TERMINAL, Q.C.	5
23	77299-091	WIRE TIES	3
24	78629-091	SHRINK TUBE††	8
25	3038-041	NUT, HEX (8-32)	2
26	11241-041	SCREW, RD. HD. (8-32 x 5/8)	2
27	19676-041	WASHER, LOCK (#8)	2
28	118177-091	TERMINAL, SPADE	8

*NOTE 1: Place caution label (11) on the outside of cover (20).

**NOTE 2: Place wiring diagram sticker (19) on the inside of cover (20).

†NOTE 3: Wire specs: #18 stranded copper wire, thermoplastic insulation, 16/30 str., 300 V. min., 105°C min., UL, CSA label required.

††NOTE 4: 3/16" I.D. black polyolefin tubing. Use 1/2" long piece of tubing for each wire at all solder connections at resistors, items 8 and 9.

TIMER ASSEMBLY
(For Units Built After June 1, 1983)

136009-002

ADD. 8/83

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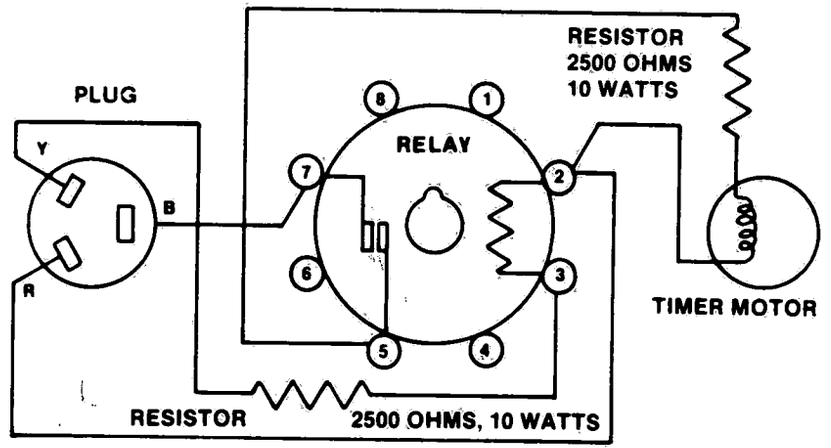
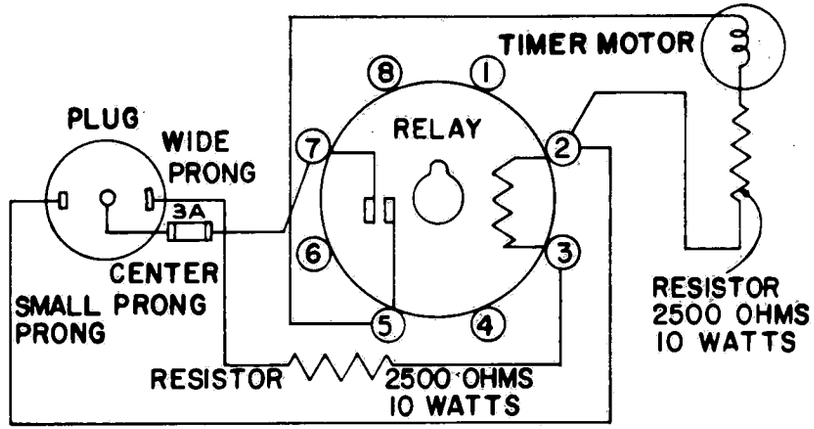


TIMER WIRING DIAGRAM
(For Units Built Before July 31, 1965)

ADD. 6 83

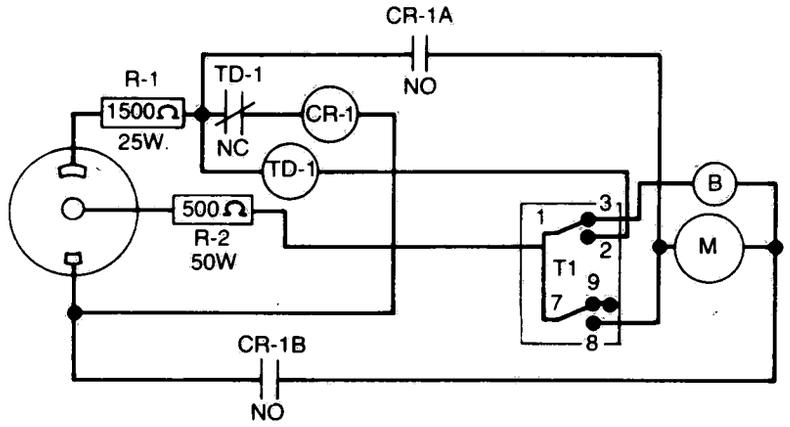
P-27474



TIMER WIRING DIAGRAM
(For Units Built Between Aug 1, 1965 & Sept. 30, 1974)

ADD. 8/83

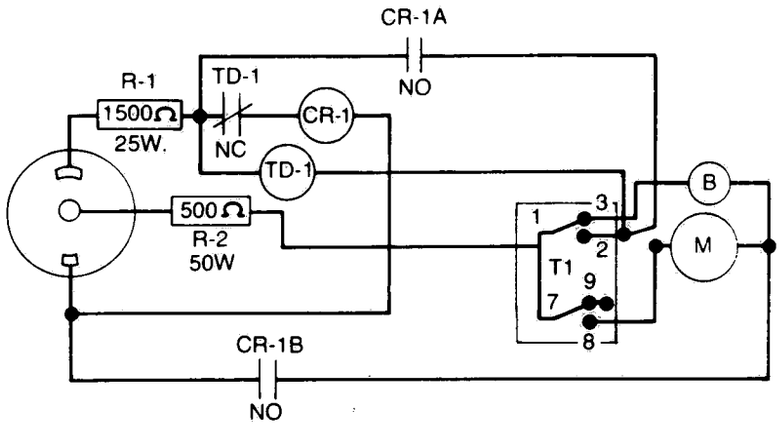
75091-091



TIMER WIRING DIAGRAM
(For Units Built Between Oct. 1, 1974 & Feb. 6, 1975)

REV. 8/83

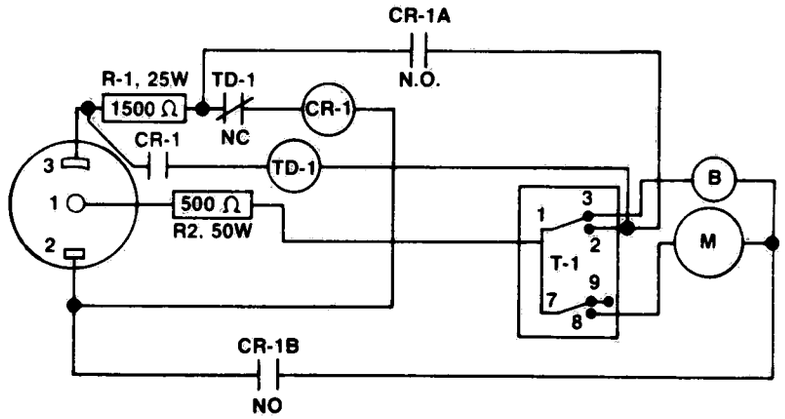
83030-001



TIMER WIRING DIAGRAM
(For Units Built Between Feb. 7. 1975 & July 20, 1976)

REV. 8/83

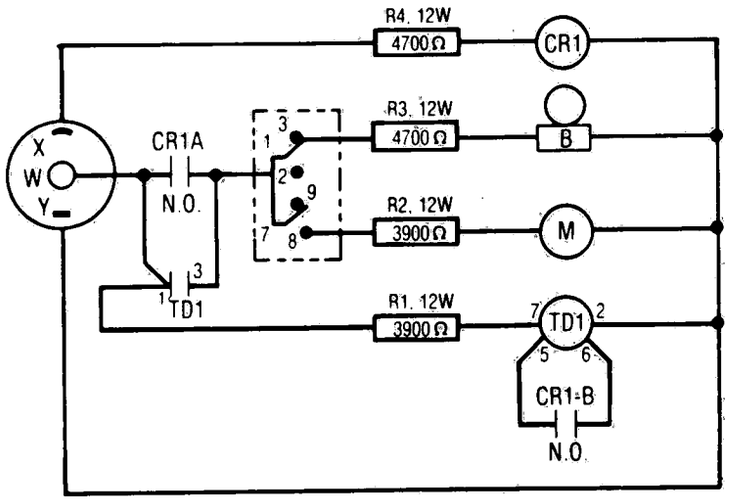
83030-002



TIMER WIRING DIAGRAM
(For Units Built Between July 21. 1976 & May 31. 1983)

REV. 8/83

83030-003



TIMER WIRING DIAGRAM
(For Units Built After June 1, 1983)

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83030-005

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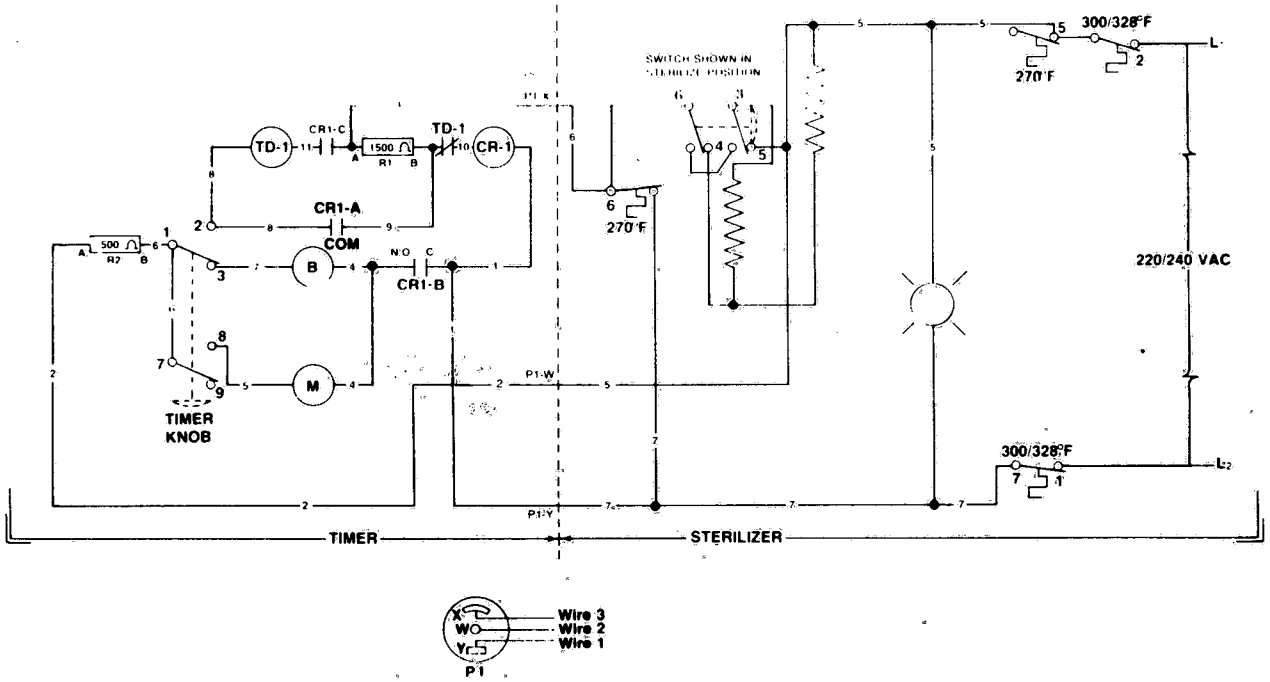
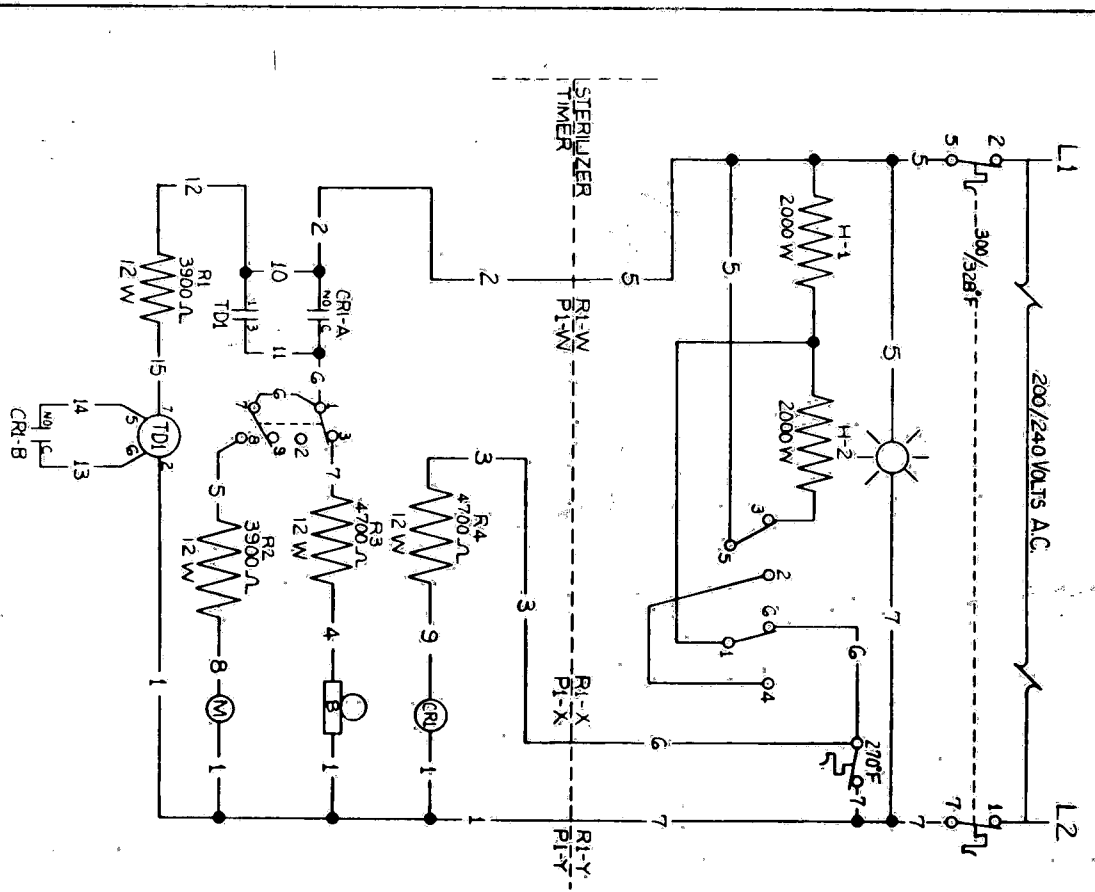


TIMER/STERILIZER SCHEMATIC
(For Units Built Between July 21, 1976 and May 31, 1983)

REV. 8/83

56194-001



TIMER/STERILIZER SCHEMATIC
(For Units Built After June 1, 1983)

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56396-021

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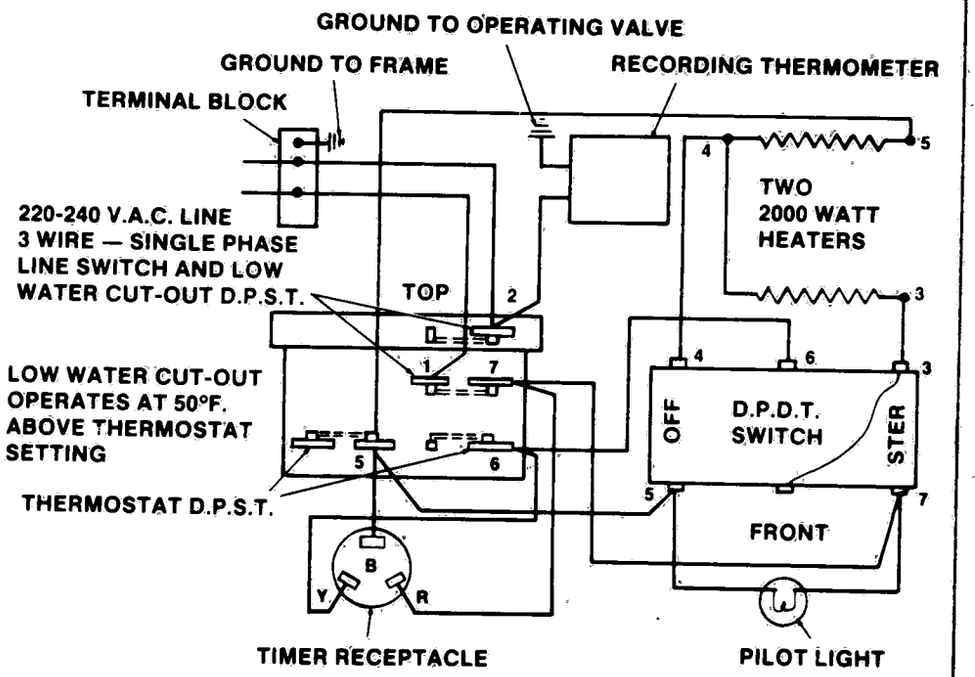
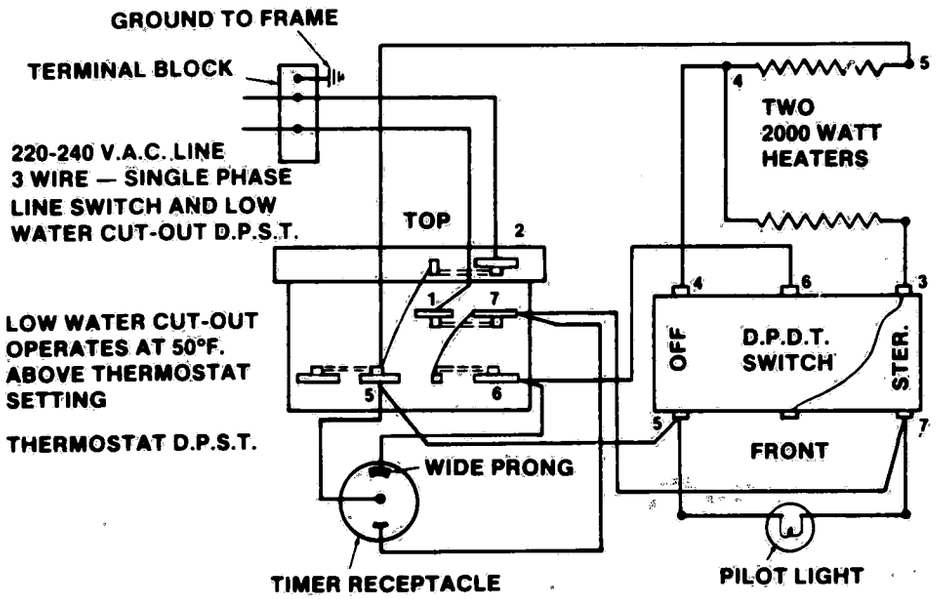
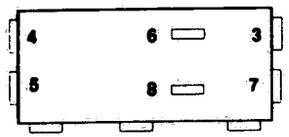


STERILIZER WIRING DIAGRAM
(For Units Built Before July 31, 1965)

REV. 12/87

30500





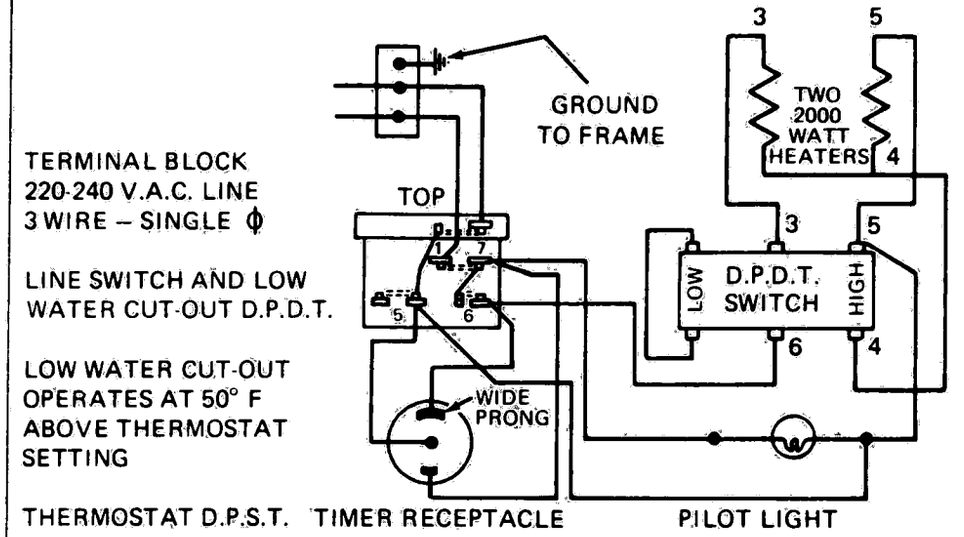
STERILIZER WIRING DIAGRAM
(For Units Built Between Aug. 1, 1965 and Sept. 30, 1974)

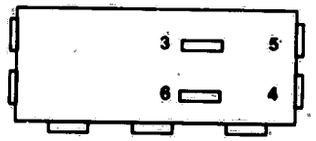
75092-091

REV. 8/83

SM-137

D-1



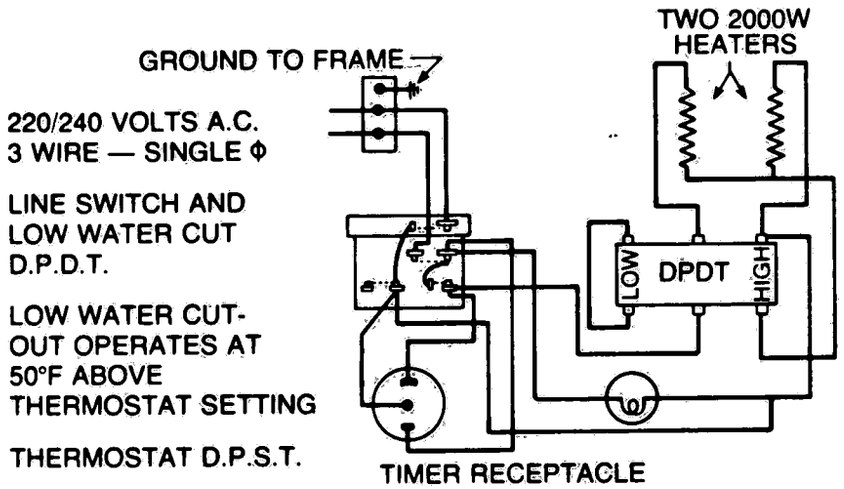


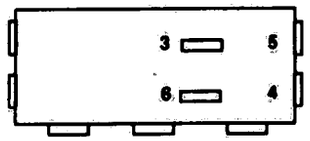
STERILIZER WIRING DIAGRAM
(For Units Built Between Oct. 1, 1974 and May 31, 1983)

REV. 12/87

83040-001
SM-137A

D-2



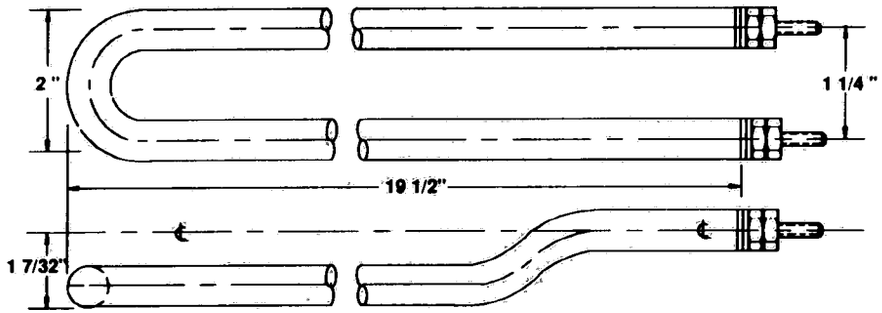


3 P.D.T. SWITCH

STERILIZER WIRING DIAGRAM
(For Units Built After June 1. 1983)

ADD. 8/83

83040-003



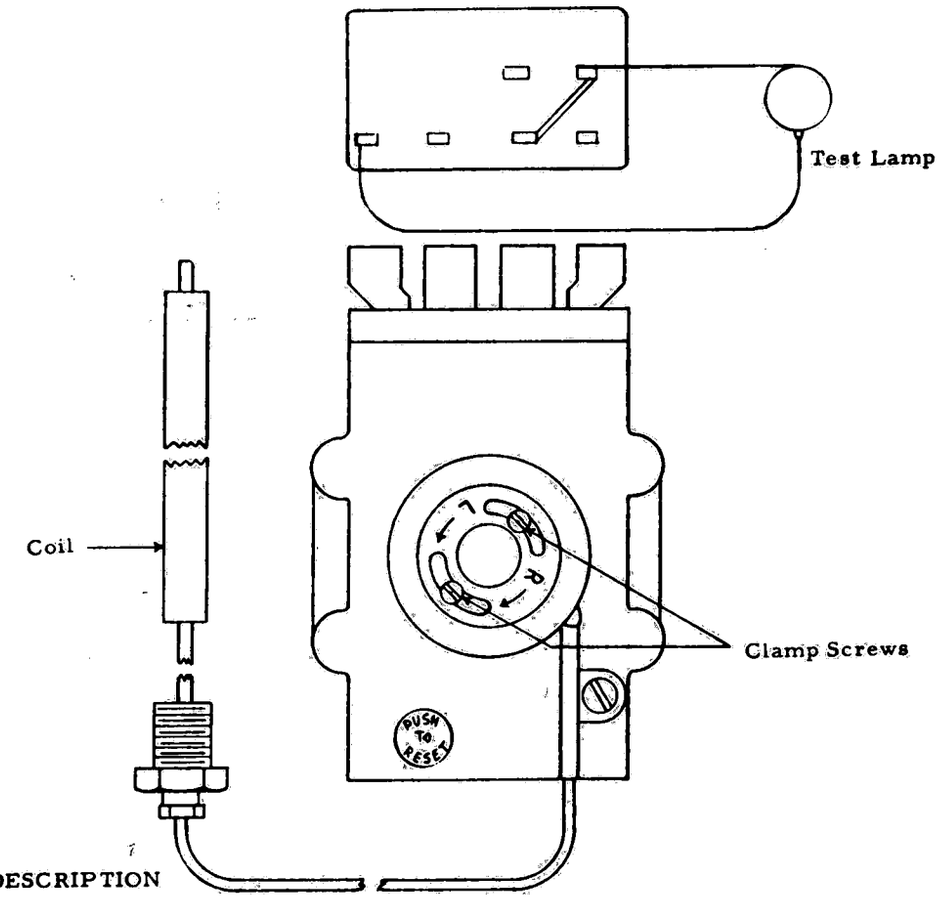
NOTE : COLD RESISTANCE - LOW 23.7 OHMS,
NOMINAL - 26.3 OHMS, HIGH 27.6 OHMS

ELEMENT HEATING
10 X 10 22 CLINICAL AUTOCLAVE

ADD. 12/87

27331

INSTRUCTIONS FOR THERMOSTAT SETTING



DESCRIPTION

1. Attach test lamp

2. Turn control knob clockwise to extreme high position. Remove knob and operate autoclave until temperature reaches 272°F. If temperature continues to rise, loosen clamp screws and hold post firmly against stop, then turn graduated dial in direaction of arrow L until test light goes on. **

3. If temperature does not reach 272° F. test light goes on repeat above procedure, but turn dial in direction of arrow R to increase temperature. **

4. Remove test light and replace knob.

** **NOTE: This adjusting procedure should be repeated for at least 3 cycles - moving dial as necessary to obtain proper setting.**

SM-181

INSTRUCTIONS FOR REPLACING THERMOSTAT (For Units Built Between 6-76 and 4-15-76)

When replacing thermostat, item 9, SM-131, proceed as follows:

NOTE: The old thermostat bulb was secured by one clamp; therefore, an additional clamp, P-33943-061, will be required for installing the new thermostat bulb.

1. Disconnect electric power to sterilizer.

2. Remove button screws (28, SM-131) securing side panels (3, SM-131), then remove panels.

3. Identify wires connected to thermostat (9, SM-131), then disconnect wires.

4. Remove thermostat bulb from clamp (92, SM-131) that secures it near heater assembly (5, SM-131).

5. Unscrew plug on thermostat capillary tube from stuffing box. Withdraw thermostat bulb from sterilizer.

6. Remove knob from thermostat, then remove two round head screws (37, SM-131) that secure thermostat to upper panel (11, SM-131).

7. Remove thermostat including attached bulb.

8. Loosen two 6-32 x 1/4 round head screws (6, SM-136A) that secure cover (20, SM-136A) to timer chassis assembly (2, SM-136A). Also refer to item 19, SM-131.

9. (Refer to 136009 and 136009A.) Remove wire number 9 that is soldered to TD1-8 and TD1-7.

NOTE: For steps 10 and 11; use number 8 stranded copper wire that meets the requirements in note 3 of SM-136A.

10. (Refer to 136009 and 136009A.) Add a 9-inch long black wire (number 3) by soldering one end to CR1-C (common) and soldering the other end to R1-A.

11. (Refer to 136009 and 136009A.) Add a 9-inch long black wire (number 11) by soldering one end to CR1-C (normally open) and soldering the other end to TD1-7.

12. Remove timer wiring diagram sticker (19, SM-136A) from cover (20, SM-136A), and replace it with new timer wiring diagram, P-83030-003.

13. Install new thermostat, P-22446-091 (9, SM-131) in upper panel (11, SM-131) using the two round head screws (37, SM-131).

14. Connect wires to new thermostat.

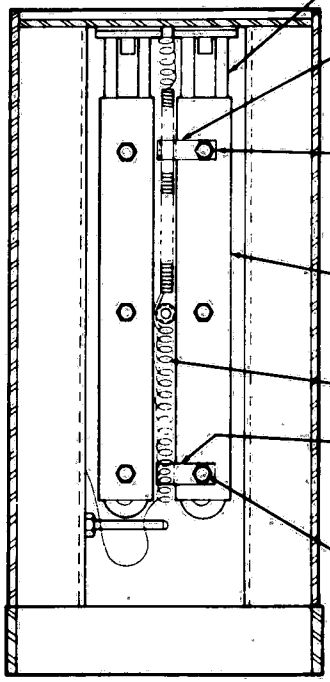
15. Insert thermostat bulb through hole in stuffing box, then screw plug into stuffing box.

16. Install thermostat bulb as shown using two clamps.

17. Replace timer assembly cover (20, SM-136A) and tighten round head screws (6, SM-136A).

18. Secure side panels (3, SM-131) to sterilizer with button screws (28, SM-131).

19. Reestablish electric power to sterilizer.



*Note: Bulb must not touch heater.

Sheet 2 of 2

SM-181A

AMSCO SERVICE

CLINICAL AUTOCLAVE
SERIES 7018 10x10x22"
P-753817-002

12/87

1 of 1