



# Finishing Cabinet

## Model MR3FC

## OWNER'S MANUAL

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**THIS MANUAL MUST BE GIVEN TO THE EQUIPMENT OWNER.**

MAN65 4/05

Part No. D0092

## WARRANTY

The Cissell Manufacturing Company (Cissell) warrants all new equipment (and the original parts thereof) to be free from defects in material or workmanship for a period of one (1) year from the date of sale thereof to an original purchaser for use, except as hereinafter provided. With respect to non-durable parts normally requiring replacement in less than one (1) year due to normal wear and tear, including, but not limited to, cloth goods, valve discs, hoses, and iron cords, and with respect to all new repair or replacement parts for Cissell equipment for which the one (1) year warranty period has expired, or for all new repair or replacement parts for equipment other than Cissell equipment, the warranty period is limited to ninety (90) days from date of sale. The warranty period on each new replacement part furnished by Cissell in fulfillment of the warranty on new equipment or parts shall be for the unexpired portion of the original warranty period on the part replaced.

With respect to electric motors, coin meters and other accessories furnished with the new equipment, but not manufactured by Cissell, the warranty is limited to that provided by the respective manufacturer.

Cissell's total liability arising out of the manufacture and sale of new equipment and parts, whether under the warranty or caused by Cissell's negligence or otherwise, shall be limited to Cissell repairing or replacing, at its option, any defective equipment or part returned f.o.b. Cissell's factory, transportation prepaid, within the applicable warranty period and found by Cissell to have been defective, and in no event shall Cissell be liable for damages of any kind, whether for any injury to persons or property or for any special or consequential damages. The liability of Cissell does not include furnishing (or paying for) any labor such as that required to service, remove or install; to diagnose troubles; to adjust, remove or replace defective equipment or a part; nor does it include any responsibility for transportation expense which is involved therein.

The warranty of Cissell is contingent upon installation and use of its equipment under normal operating conditions. The warranty is void on equipment or parts; that have been subjected to misuse, accident, or negligent damage; operated under loads, pressures, speeds, electrical connections, plumbing, or conditions other than those specified by Cissell; operated or repaired with other than genuine Cissell replacement parts; damaged by fire, flood, vandalism, or such other causes beyond the control of Cissell; altered or repaired in any way that effects the reliability or detracts from its performance, or; which have had the identification plate, or serial number, altered, defaced, or removed.

No defective equipment or part may be returned to Cissell for repair or replacement without prior written authorization from Cissell. Charges for unauthorized repairs will not be accepted or paid by Cissell.

CISSELL MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, STATUTORY OR OTHERWISE, CONCERNING THE EQUIPMENT OR PARTS INCLUDING, WITHOUT LIMITATION, A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR A WARRANTY OF MERCHANTABILITY. THE WARRANTIES GIVEN ABOVE ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. CISSELL NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT, ANY OTHER WARRANTY OR LIABILITY IN CONNECTION WITH THE MANUFACTURE, USE OR SALE OF ITS EQUIPMENT OR PARTS.

For warranty service, contact the Distributor from whom the Cissell equipment or part was purchased. If the Distributor cannot be reached, contact Cissell.

## TABLE OF CONTENTS

Warranty .....	2
Specifications .....	3
Steam Piping Recommendations .....	4-5
Operating Instructions .....	6
Trouble Shooting Chart .....	7
Parts Sheets .....	8-13

## MR3FC FINISHING CABINET SPECIFICATIONS

Electrical .....	4 amps, 220V/50 Hz/1 Ph.; or 8 amps, 115V/60 Hz/1 Ph.
Exhaust Duct .....	4" diameter with Adjustable damper for variable stack lengths
Steam Supply Line .....	1/2" NPT
Steam Return Line .....	1/2" NPT
Boiler Horsepower .....	60-100 P.S.I.G.
Floor Space .....	34" deep x 41 1/2" wide x 83" high (86 cm x 105 cm x 211 cm)
Net Weight (approximate) .....	560 lbs. (254 kg.)
Domestic Shipping Weight (approximate) ...	615 lbs. (279 kg.)
Export Shipping Dimensions (approximate)	45" x 38" x 86" (114 cm x 97 cm x 218 cm)
Export Shipping Weight (approximate) .....	615 lbs. (254 kg.) (container shipment) 875 lbs. (397 kg.) (wood box)
Cubic Feet Export Crating .....	85 cu. ft.

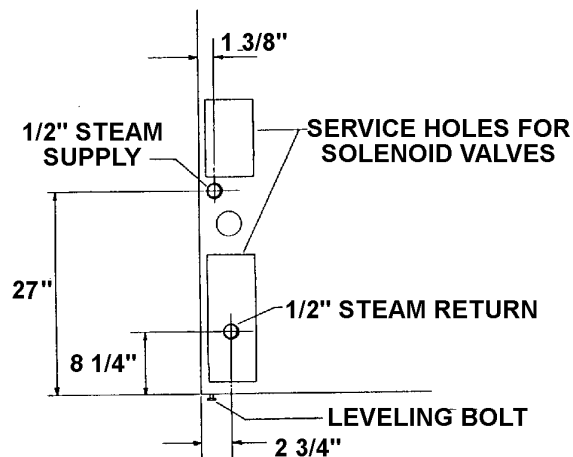
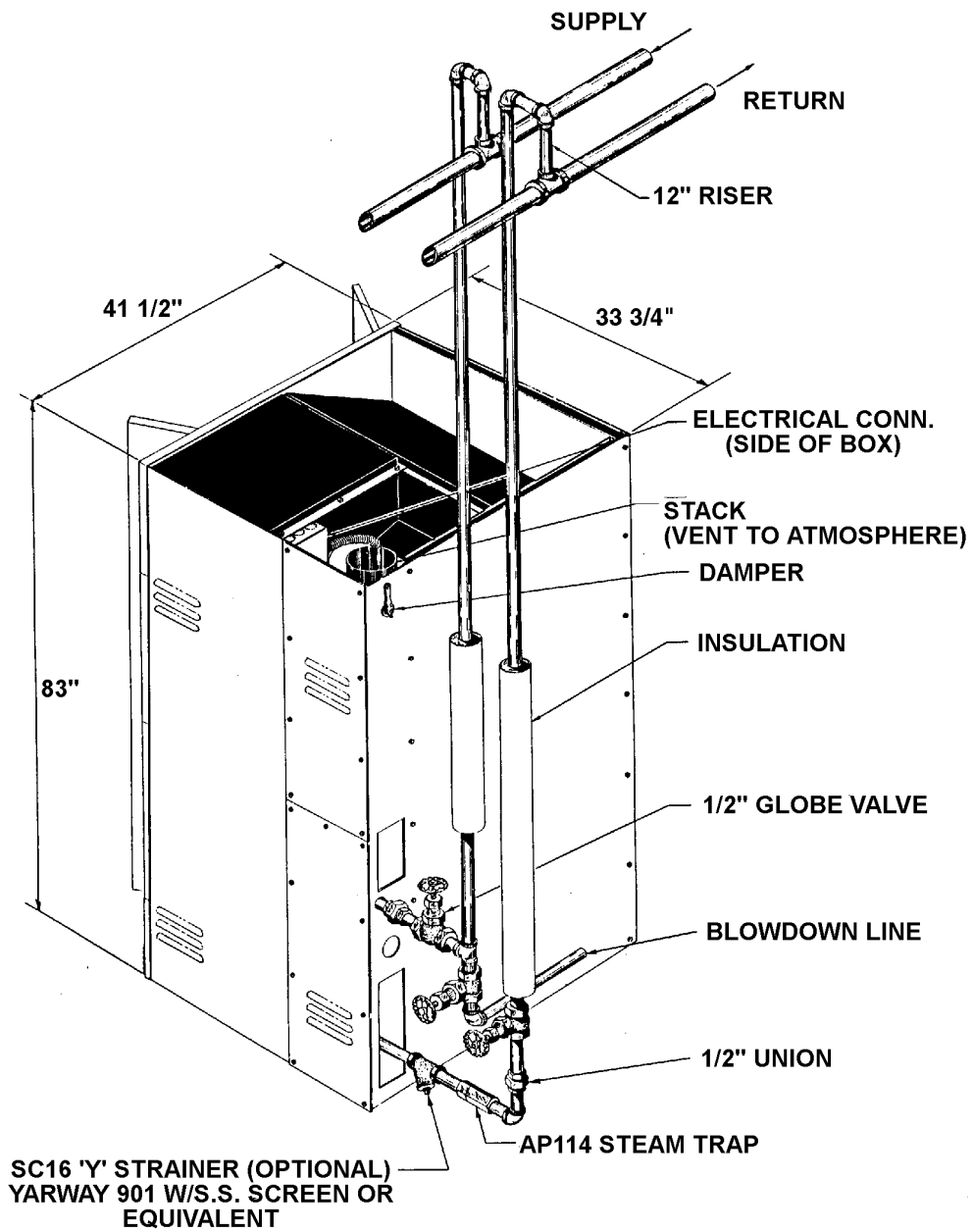
## STEAM PIPING RECOMMENDATIONS

IMPORTANT: INSTALL STEAM PIPING IN ACCORDANCE WITH ALL LOCAL REGULATIONS AND REQUIREMENTS.

1. Set and level Cabinet in position. Machine should be level to assure proper steam and circulation.
2. To prevent condensate draining from headers to Cabinet, piping should have a minimum riser 12" above each respective header as illustrated on next page. Do not make steam connection to header with a horizontal or downwardly facing tee or elbow.
3. Whenever possible, horizontal runs or steam lines must drain, by gravity, to respective steam header. Water pockets, or an improperly drained steam header will provide wet steam causing improper operation of Cabinet. If pockets or improper drainage cannot be eliminated, install a by-pass trap to drain condensate from the low point in the steam supply header to the return.
4. In both the steam supply and steam return line, it is recommended that each have a 1/2" union and 1/2" globe valve. This will enable you to disconnect the steam connections and service the Cabinet while your plant is in operation.
5. Before connecting trap and check valve to Cabinet, open globe valve in steam supply line and allow steam to flow through Cabinet to flush out any dirt and scale from Cabinet. This will assure proper operation of trap when connected. If steam is dirty, it will be advisable to install a filter or blow down line ahead of cabinet.
6. After flushing system, install trap and strainer as illustrated. Inspect trap and strainer carefully for inlet and outlet markings and install according to manufacturers instructions. If steam is gravity returned to boiler, omit trap but install check valve in return line near Cabinet.
7. When cabinet is on end of a line of equipment extend headers at least 4 ft. beyond Cabinet. Install globe valve, union, check valve and by-pass at end of line. If steam is gravity returned to boiler, omit trap.
8. Insulate steam supply and return lines for safety of operator while servicing Cabinet.
9. Keep Cabinet in good working condition. Repair or replace any worn or defective parts.

The interior of the tunnel will turn white as the protective zinc oxide coating forms. Do not try to remove this coating.

Do not remove lint, dust, and boiler compound or red dust which is entrained by the steam. Touch-up scratches and chips in the paint. A good car wax will extend life of the painted surface.



REAR VIEW

## **OPERATING INSTRUCTIONS FOR CISSELL MOIST-RITE CABINETS AND TUNNELS**

Forward - The Moist-Rite Finishing Cabinets and Finishing Tunnels are designed to restore the finish on most garments. It does an exceptional job on most wool, wool blends, synthetic blends, double and bonded knits and in general imparts a better finish on the quality garments. The machine will not completely finish all garments but it will impart some finish to nearly all garments except those made of untreated cotton or linen, some blends of rayon and some of the permanent press garments which have lost their resin treatment.

The steam cabinet or tunnel employs three basic principles. First, it introduces moisture to the garment during the steaming cycle (analogous to sprinkling clothes for ironing); second, it allows the moisture to penetrate into the garment during the conditioning cycle (analogous to letting the sprinkled clothes stand overnight); and third, it dries the garment with pressure and heat during the drying cycle by inflating the garment with hot air (analogous to ironing a garment).

Because of the variables in the type and weight of garments and steam pressure used, it will be necessary to establish your own cycle time for steaming, conditioning and drying. The shorter the cycle times, the greater will be the number of garments finished in a given time. For convenience, it may be desirable to set the machine for longer cycle times to include all different garments. Longer cycle times will not be harmful to the garments.

No more than a week should be required to select your own optimum settings.

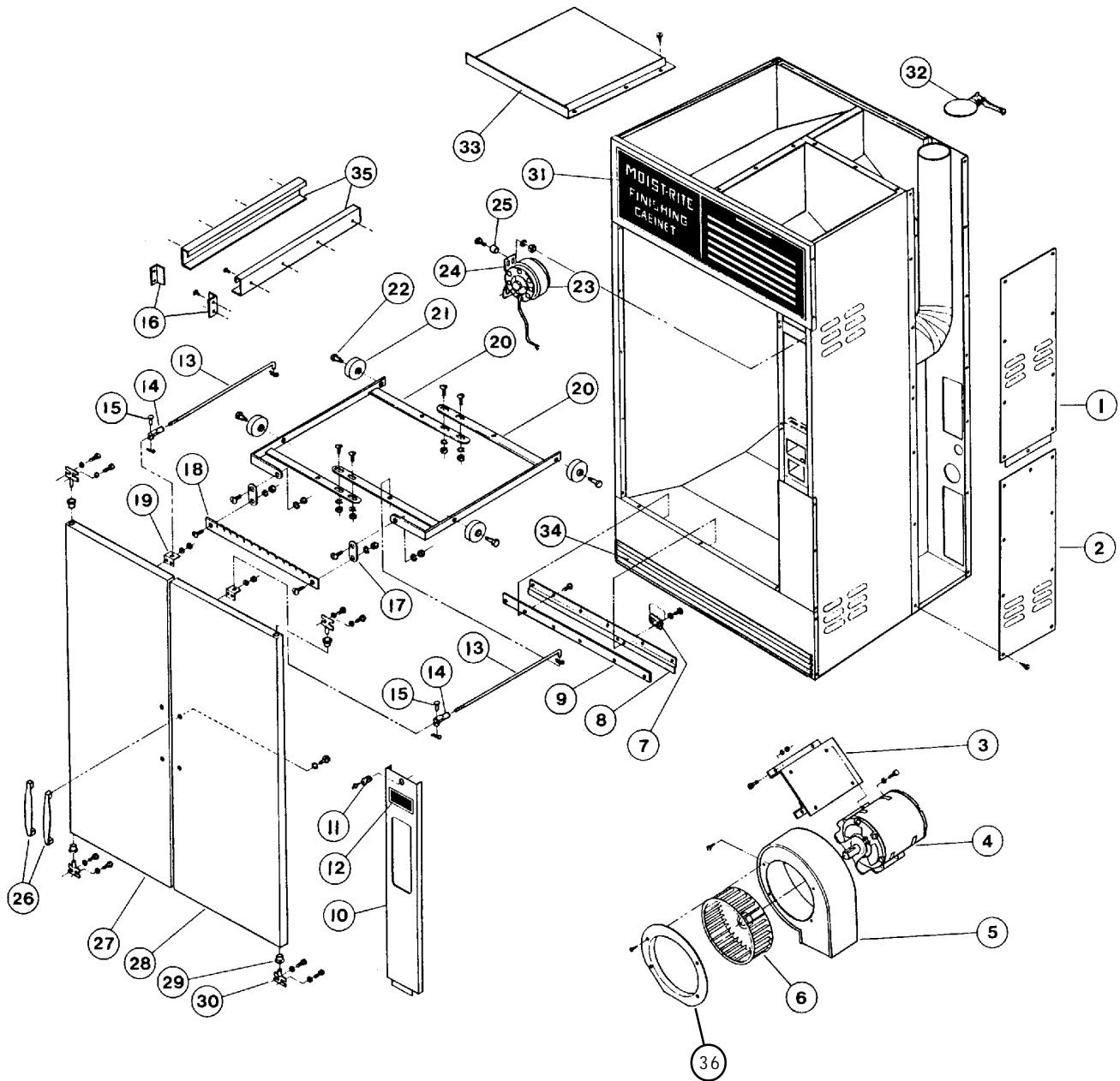
**Steaming Time** - For the shortest and surest moisture penetration, the moist steam setting should be selected which allows hot water to be injected along with the dry steam. The amount of water injected is dependent on the setting of the needle valve which is located near the condensate solenoid valve (see manual), usually this will be set at 1/8 to 1/4 turn open. For best results open to the maximum setting that gives a finished garment with no beads of water on the lower hem of garments at the end of the drying cycle. A setting of 15 to 60 seconds for steaming should be suitable for most garments. Experimentation, however, may result in more or less time.

**Conditioning Time** - This is a setting which should be increased for heavier garments to allow more time for the moisture to penetrate the fabric of the garment. Again 15 to 60 seconds should be suitable. Experiment and then check the end results on the finished garments. On the tunnel models, the moisture penetration can be improved by the steam and air selector which drives the moisture inside the garment and is especially effective on garment linings.

**Drying Time** - This setting will depend on the weight of the garment fabric, type of fabric, length of steaming cycle and length of conditioning cycle. Set this cycle long enough to insure a dry garment, perhaps 30 to 90 seconds. Again experimentation is necessary to determine best results.

**Appearance** - Good results have been achieved when the garment has a smooth appearance, is free of wrinkles, is dry and there is a sheen or lustre to the fabric. Remember - a good finish job starts with enough moisture, if in doubt, increase the steaming time and/or the needle valve setting.

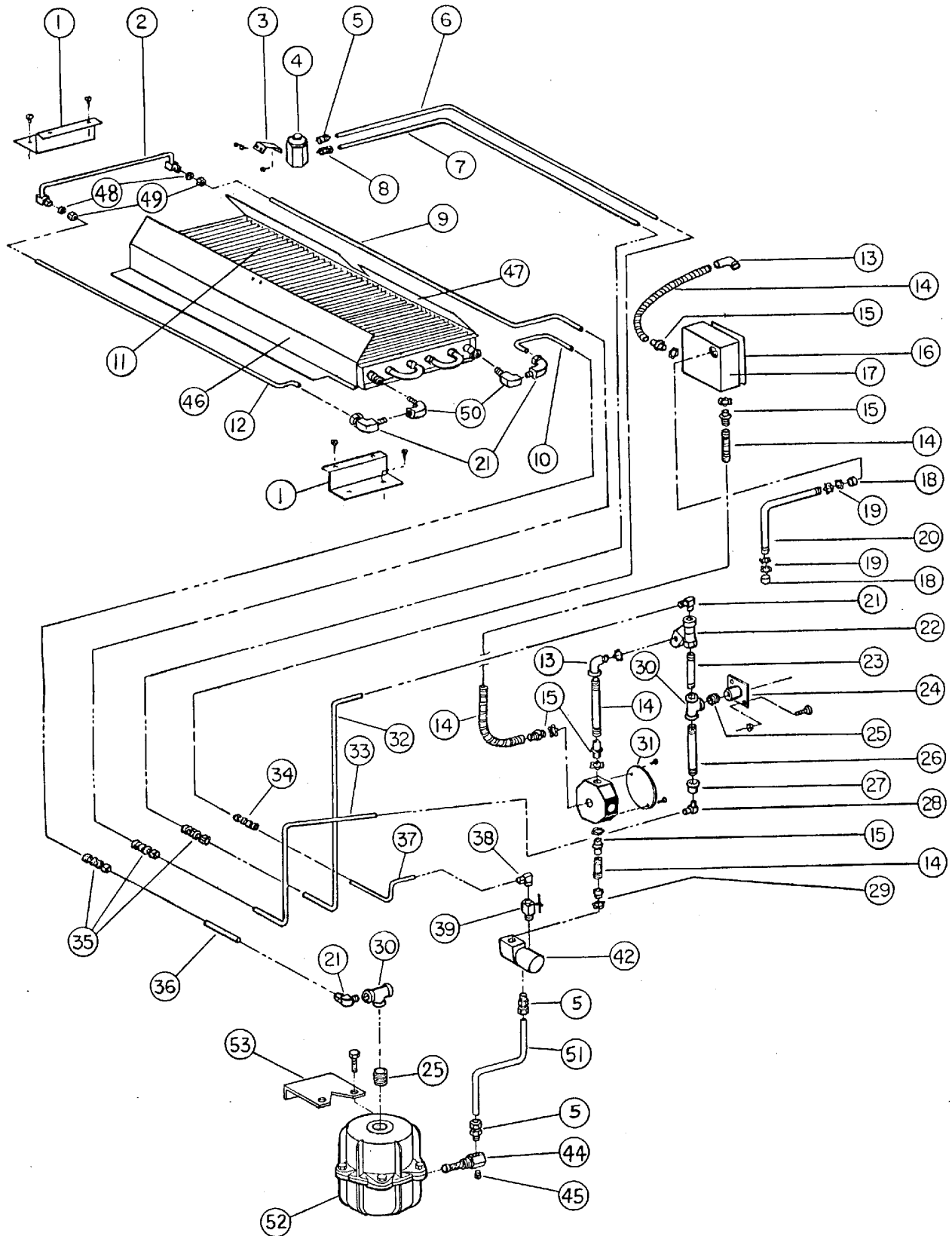
<b>PROBLEM</b>	<b>CAUSE</b>	<b>REMEDY</b>
Machine will not operate	Electric power off	Turn power on.
	Loose or broken wires to start button	Inspect wiring and repair.
	Defective start switch	Check and replace if needed.
	Defective timer cam or drive	Check and replace if needed.
Machine advances to "OFF" position when started	Advance button is defective or depressed	Check and replace if needed.
Machine re-cycles continuously	Defective wiring	Inspect wiring and terminals.
	Start button stuck or defective	Check and replace if needed.
Timing too short on one of the three settings	Defective wiring	Inspect wiring and terminals.
	Defective timer	Check and replace if needed.
	Defective wiring or short circuit	Inspect wiring and terminals.
Timing too long on one of the three settings or will not proceed through cycles	Potentiometer knob incorrectly set	Reset and tighten.
	Loose or broken wires	Inspect wiring and terminals.
	Defective timer	Check and replace if needed.
No water fog at steam jet, steam too dry	Water metering valve turned off	Open 1/4" to 1/2" turn.
	Water solenoid valve defective	Check and replace if needed.
	Water solenoid valve not electrically energized	Check wiring and terminals.
	Defective timer	Check and replace if needed.
	Water line clogged	Clean clogged part.
No steam at jet	Steam line clogged	Clean clogged part.
	Steam solenoid valve defective	Check and replace if needed.
	Steam solenoid valve not electrically energized	Inspect wiring and check valve.
	Defective timer	Check and replace if needed.
Steam too wet; excessive moisture in cabinet	Moisture metering valve open too wide	Open 1/8" to 1/4" turn.
	Steam trap not functioning properly	Check and clean or replace.
	Condensate line strainer clogged	Check and clean or replace.
Blower will not operate	Motor defective Timer defective Relay defective Wiring defective	Check and replace if needed.
Excessive noise during drying and steaming cycle	Blower wheel loose Defective blower wheel Foreign object in blower wheel	Tighten set screw. Check and replace if needed. Remove foreign object.
Excessive loss of steam or heat around door opening	Exhaust damper closed Blower not operating Exhaust duct clogged Steam cycle too long	Check and repair. Check and replace. Clean out duct. Check and reset.



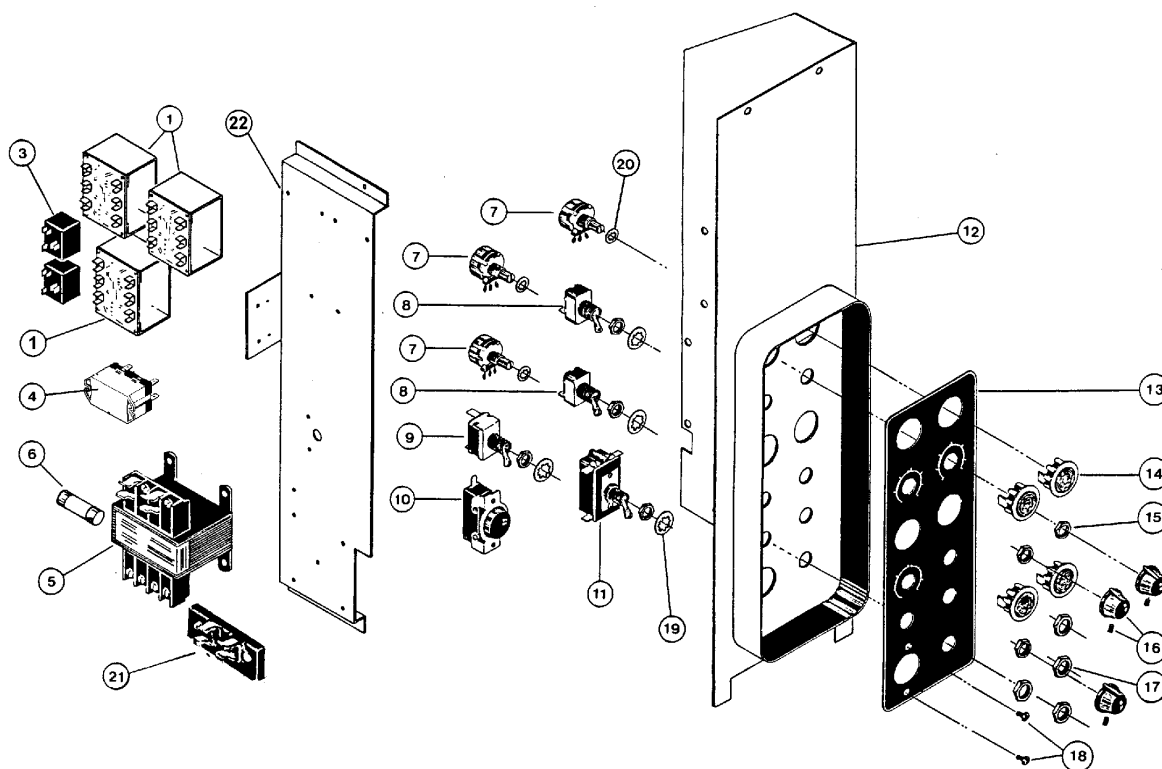


## FINISHING CABINET

Ref. No.	Part No.	Description
1	SC489	Upper Side Access Panel
2	SC487	Lower Side Access Panel
3	SC420	Motor Mount
4	MTR88	Motor - 1/2H 110-120/220-240 50/60/1 Ph.
5	SC6	Blower Housing
6	SC790	Blower Wheel
7	SC555	Door Stop
8	SC554	Seal Bracket
9	SC553	Lower Door Seal
10	SC503	Control Panel Cover
11	TUB1867	Lock & Key
12	FB405	Cissell Nameplate
13	SC486	Roller Carriage Rod
14	FG444	Yoke
15	SF48	Clevis Pin
16	SC484	Roller Carriage Stop
17	SC478	Hanger Bar Support
18	SC482	Hanger Bar
19	SC485	Door Angle
20	SC950	Roller Carriage
21	C553	Roller (4 req'd)
22	C773	Shoulder Bolt for C553
23	SC472	Vibrator Motor
24	SC473	Base
25	SC153	Spacer
26	SC462	Door Handle
27	SC586	Left Door Assembly
28	SC587	Right Door Assembly
29	SC558	Door Bushing
30	SC461	Hinge Plate
31	SC474	Operating Nameplate
32	SC508	Damper Assembly
33	SC453	Blower Enclosure Top
34	SC406	Trim
35	SC483	Carriage Track (2 req'd)
36	SC976	Inlet Ring
	TU2844	JWC-2 Key only for TUB1867
	SC855	Roller Carriage Assy. Complete includes 16, 17, 20, 21 & 22



<b>Ref. No.</b>	<b>Part No.</b>	<b>Description</b>
1	SC552	Coil Hold Down Bracket
2	SC158	Cross Over Tube Assembly
3	SC611	Steam Jet Bracket
4	SC108	Mixing Jet Assembly
5	OP297	1/8 Pipe x 1/4 Tube St. Connector
6	SC572	Mixing Jet Tube (Water)
7	SC571	Mixing Jet Tube (Steam)
8	SC216	1/4 Pipe x 3/8 Tube St. Connector
9	SC567	Rear Boil Off Tube
10	SC883	Return Tube
11	SC886	Steam Coil Assembly w/deflectors
12	SC570	Front Boil Off Tube
13	F876	3/8" Angle Connector
14	CFA0750	3/8" Greenfield Cable
15	F875	3/8" Straight Connector
16	SC518	Junction Box Cover
17	SC517	Junction Box
18	F717	Bushing
19	F94	3/4 Lock Nut
20	SC520	3/4" Conduit
21	SC253	3/8 x 3/8 Elbow
22	PT944	Solenoid Steam Valve 120V
23	AT404	Strainer Nipple Assembly
24	SC506	Mounting Bracket
25	TU2714	1/2" All Thread Nipple
26	OP296	1/2 x 5 Pipe Nipple
27	SC220	1/2 x 1/4 Reducer
28	SF46	1/8 Pipe x 1/4 Tube Elbow
29	PT459	3/8 Connector w/Set Screw
30	SC219	1/2 x 3/8 x 1/2 Tee
31	TU2335	Junction Box Cover
32	SC575	Steam Tube
33	SC569	Steam Supply Tube
34	SC215	1/4 Bulkhead Union
35	SC214	3/8 Bulkhead Union
36	SC573	Short Return Tube
37	SC574	Water Tube
38	TU2722	1/8 Pipe x 1/4 Tube Elbow
39	FG160	1/8" Metering Valv
42	SC9	Solenoid Valve (Condensate)
44	SC170	Strainer Assembly
45	OP249	Pipe Plug
46	SC652	Air Deflector for Steam Coil
47	SC653	Air Deflector for Steam Coil
48	SF117	3/8 Compression Bead
49	SF120	3/8 Compression Nut
50	SC884	Elbow, 3/8 Pipe x 1/2 Flare Tube
51	SC676	Condenser Water Tube
52	SGC2	Condenser Assembly
53	SC677	Condenser Mounting Bracket



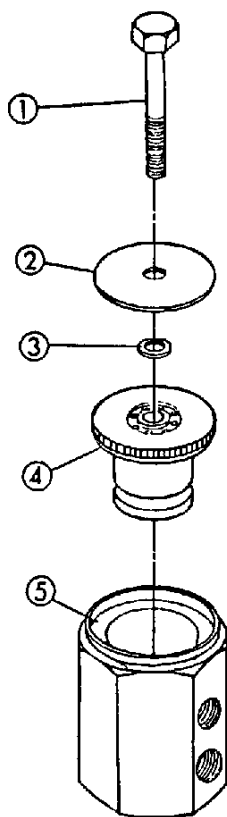
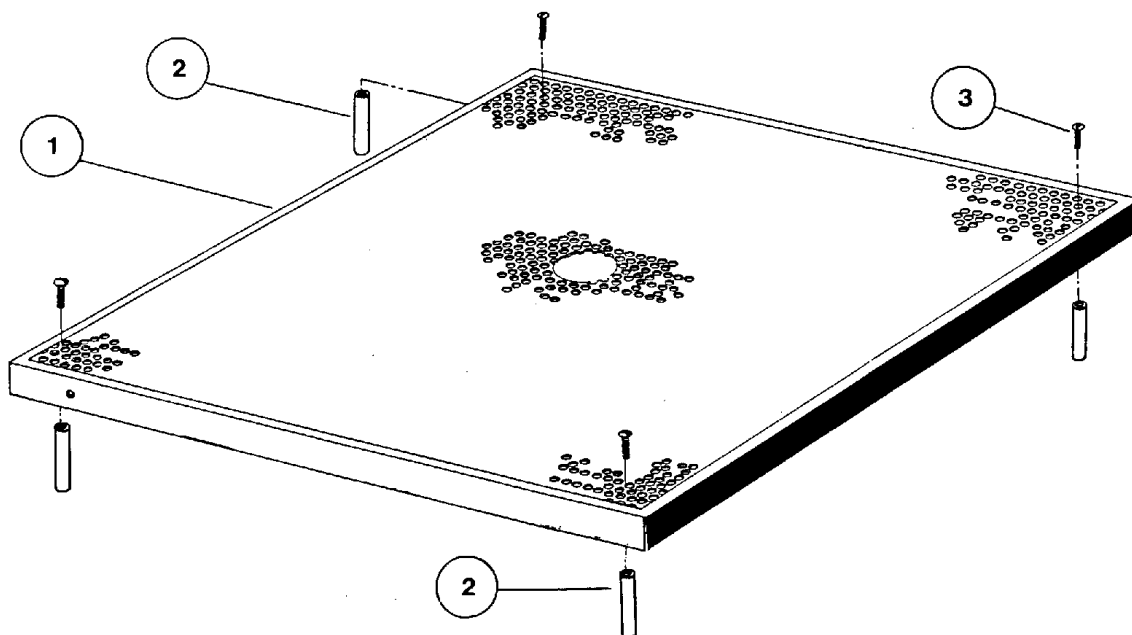
## CONTROL PANEL ASSEMBLY

SC876 - Control Panel - 120 V., 60 Hz.  
 SC877 - Control Panel - 240 V., 50/60 Hz.

Ref. No.	Part No.	Description
1	FG453	Timer (3 ea.)
3	PT182H	Relay (2 ea.)
4	TU13224	Relay
5	AT238	Transformer (240V. Only)
6	SC880	Replacement Fuse
7	-----	Potentiometer - Included as part of Timers
8	FG147	Switch, "Steam or Vibrator"
9	AF185	Switch, "Air"
10	TU9028	Push Button Switch
11	TU264	Switch, "Power"
12	SC412	Control Panel
13	SC469	Control Panel Nameplate
14	M102	Amber Lamp
15	AT246	3/8 Hex Nut
16	PT118	Knob
17	TU3805	15/32 Hex Nut
18	ET208	#6 - 32 x 1/4 Screw
19	OP251	1/2" I.T. Lockwasher
20	TU3243	3/8" I.T. Lockwasher
21	SC881	Fuse Holder (120V Only)
22	SC882	Control Sub-panel W/A

## SAFETY GRID (Optional on 120V)

Ref. No.	Part No.	Description
1	SC606	Grid
2	SC600	Grid Support (4 Req'd)
3	P219	Screw, 1/4 - 20 x 1/2" (Pkg. 6)



## MIXING JET ASSEMBLY - SC108

Ref. No.	Part No.	Description
1	SC166	Screw, 1/4" - 20 x 2"
2	SC107	Steam Spreader Disc
3	PT359	Washer
4	SC105	Mixing Jet Insert
5	SC106	Mixing Jet Body