
IMPORTANT

CARE, USE & SERVICE OF YOUR VOLLRATH MOBILE BUFFET

4-WELL HOT FOOD STATION

No. 99145 - 98145

No. 99146 - 98146

No. 99148 - 98148



MAINTENANCE

1. Damaged cords and/or cord caps should be replaced.
2. Heat lamps in the 3-well and 4-well Buffet, and the Hot Entree Cart are not to exceed 250 Watts per lamp.
3. If illumination lamps are used, they are not to exceed 25 Watts. The tubular "Showcase" light, available from electrical supply houses, is ideally suited for this purpose.
4. Pilot lights and controls on Buffet Units can be reached by removing screws from the upper edge of the front panel, and tilting panel outward. Putting unnecessary weight or pressure on panel in lowered position will bend panel.
5. Wheel bearings should be greased as required.

OPERATING INSTRUCTIONS

1. Plug unit into properly grounded receptacle only (See grounding instructions below). Arcing will occur when connecting or disconnecting unit unless all controls are in the "Off" position.
2. Wells in Hot Food Units can be used dry, or with 2 quarts of hot water per well. If hot water is unavailable (180° or higher), cold water heated in the covered well will come to a boil in less than 1 hour. If the dry method is used, wells should be preheated for 15 minutes before inserting pans. During the preheating stage, all wells should be covered.
3. Control knobs on Hot Food Units in the range of Lo to 3 is low heat; 4 to 6, medium heat; and Hi is maximum. Because of variances in room temperature and conditions, food consistency and quantity, no specific instructions for settings can be given. Operation is similar to a home range — temperature of food should be checked periodically, and the controls adjusted accordingly.
4. Each well will accommodate a 12" x 20" pan, 2½", 4" or 6" deep. Fractional size pans in various combinations can also be used with adaptor bars.
5. Any discoloration inside the wells can be removed with Ajax, Comet, steel wool or any commercial cleanser.
6. To keep stainless surface new looking, clean wells after each use to remove deposits, then rinse thoroughly with clean water.
7. Stainless serving shelves, tray slides, plate rests and station working areas can be cleaned with stainless steel polish.
8. Clean the wood-grain vinyl with a damp cloth or a wax cleaner such as Pledge, etc.
9. All plastic breath protectors can be cleaned and polished with a clear plastic cleaner, Cadco's Brillianize, Novus Plastic Polish No. 1, etc. Minor scratches, haziness and abrasions can be removed with Novus Plastic Polish No. 2.

STATION NUMBER	VOLTS	PHASE	AMPS	WATTS (AC only)	PLUG NEMA	RECEPTACLE	
						HUBBELL	NEMA
98145 - 99145	120	1	25.5	3060	5-50P	9360	5-50R
98146 - 99146	120/240	1	12.8	3060	14-20P	8410	14-20R
98148 - 99148	120/208	1	14.7	3060	14-20P	8410	14-20R

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electrical shock. This unit is equipped with an electric cord having an equipment — grounding connector and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

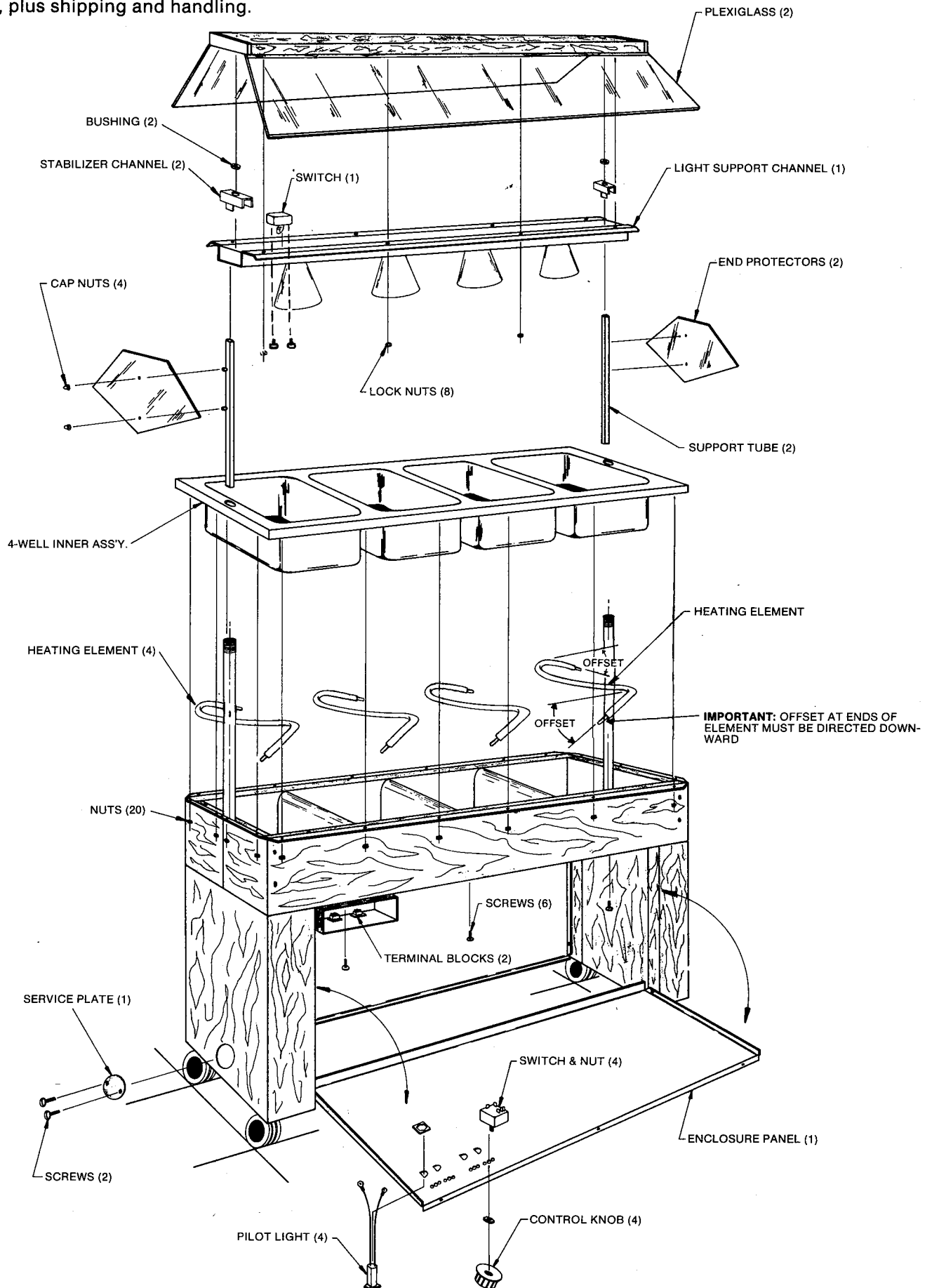
Do not modify the plug provided — if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the unit is properly grounded.

CAUTION: Never remove the grounding pin from the plug!

PARTS LIST

Your Vollrath mobile serving unit is designed to provide years of trouble-free use. If a part is damaged or lost, order a replacement part by stock number (shown below) directly from: The Vollrath Company, P. O. Box 611, Sheboygan, WI 53082-0611. A nominal charge will be made for the part(s) ordered, plus shipping and handling.



TROUBLE SHOOTING

1. Should any of the wells fail to heat, disconnect the power cord from the outlet. Remove three (3) screws from top flange of control panel. Carefully pull top of panel away from unit until the internal wiring stops any further movement. The panel will stay in this position.
2. Remove two (2) red wires connected to the H¹ and H² terminals on the control of the well in question, and run a continuity check from terminal H¹ to H² with the external control knob in the "Off" position, using an Ohmmeter.

The resistance reading should be approximately 4,000 Ohms for a 120 Volt control, and 15,000 Ohms for a 240 Volt and 208 Volt control. If a reading is not obtainable, the heating coil in the Robertshaw control is open and the control will have to be replaced.

3. If the correct reading is obtained, turn the control knob to high. Check for continuity between L¹ and H¹, and between L² and H². Both readings should be 0 Ohms. If not, replace control.
4. If the Robertshaw control is in working order, a resistance reading across the two (2) wires removed from the H¹ and H² terminals should be taken.

The meter should indicate 25 Ohms (plus or minus 3 Ohms) for the 120 Volt units, 105 Ohms (plus or minus 10 Ohms) for the 240 Volt units, and 70 Ohms (plus or minus 7 Ohms) for 208 Volt units.

An infinite reading of the meter indicates replacement of the heating element.

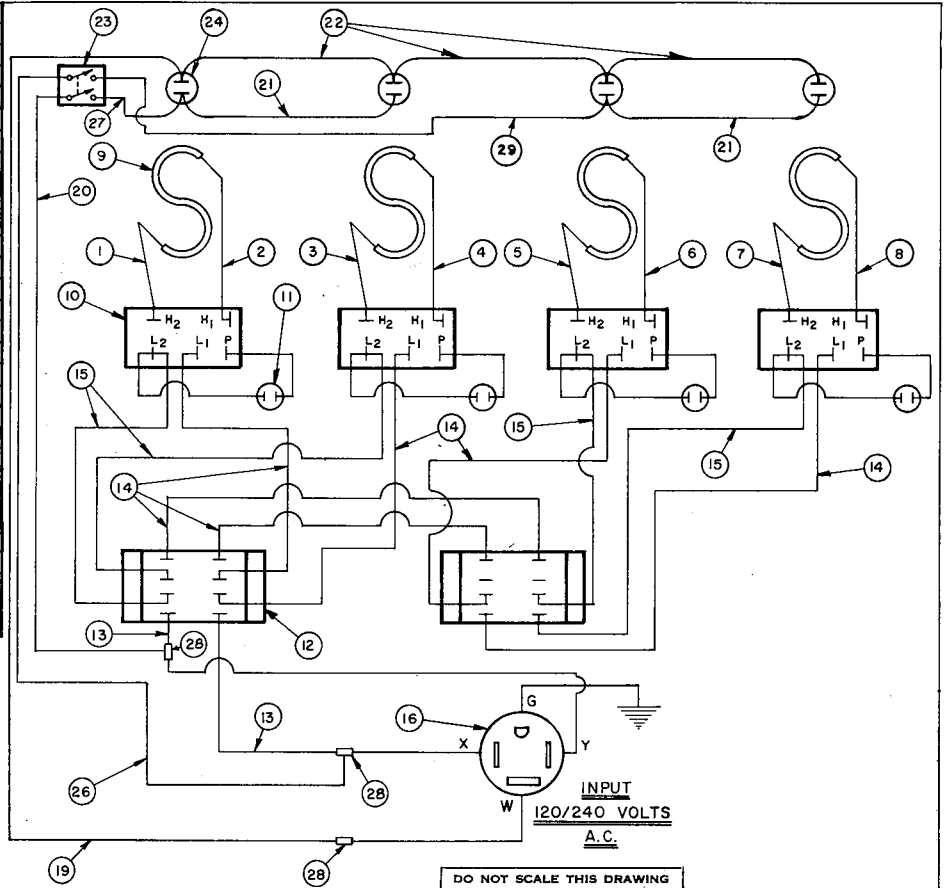
REPLACING HEATING ELEMENTS

1. Remove four (4) 10-24 acorn nuts on the plexiglas end protectors and the 10-24 acorn nuts on the underside of the light wrapper channel (6 on a 3-well unit, 8 on the 4-well unit) and lift light wrapper, sneeze guard assembly, from the unit.
2. Remove screws under light support channel holding switch to channel. Lift switch from channel, disconnect the red and black wire from the switch-end closest to the locknuts. Disconnect the white wire (running through the locknut) from the closest light receptacle terminal.
3. Turn the plastic bushing on the support tube counter-clockwise and remove. Remove both locknuts from the vertical support tubes (one on each end).
4. The light channel assembly is removed by lifting the assembly straight up to clear the mounting pipes. Remove (2) support tubes in the same manner.
5. Remove the 10-24 nuts from under the flange (18 on the 3-well, 20 on the 4-well) of the well body assembly.
6. Lift the well body assembly to clear the two (2) mounting pipes.
7. Using a 7/32" open end wrench on the hex stud on the heating element, and an 11/32" wrench on the nut, remove the nut, washer and terminal from the element. Remove "S" shaped element by twisting four (4) retainer tabs at right angles to its present position, and lift the element free.
8. Install new heating element, reversing the procedure, by placing element into retainers, direct the offset at the ends of the element downward (See detail on parts list drawing). Twist retainer tabs to lock into position, replace washers, terminals and nuts on threaded ends, again using 7/32" and 11/32" wrenches.
9. Firmly press insulation against all vertical walls, then lower the well assembly over the mounting pipes and continue down (checking insulation position so as not to compress under the wells), until studs under flange have entered the holes in the outer body assembly.
10. Replace all the 10-24 nuts on the studs under the flange, tightening only enough to seat the well assembly firmly against the flange. Do not overtighten, as this will draw dimples into the top side of the well assembly.
11. After carefully straightening the wires protruding from the mounting pipe, lower the (2) square support tubes (with the welded studs toward the top and toward the outside) over the pipes. Replace the light support assembly, the end closest to the switch is mounted over the support pipe containing the wires. Place (2) stabilizer channels over the pipes and tap down into place. Be sure the tabs on the stabilizer channel enter the 1" square support tube. Fasten assembly with a locknut on each of the (2) mounting pipes, and replace plastic bushing on mounting pipe nearest switch.
12. Connect white wire coming from mounting pipe to light receptacle terminal, the red and black wire to the switch terminals, and fasten switch in hole in light channel with screws.
13. Replace light wrapper and plexiglas breath protector, and fasten with 10-24 acorn nuts.
14. Place new sealant around the (2) support tubes at the junction with the well body assembly.

WIRING DIAGRAMS - HOT FOOD STATIONS

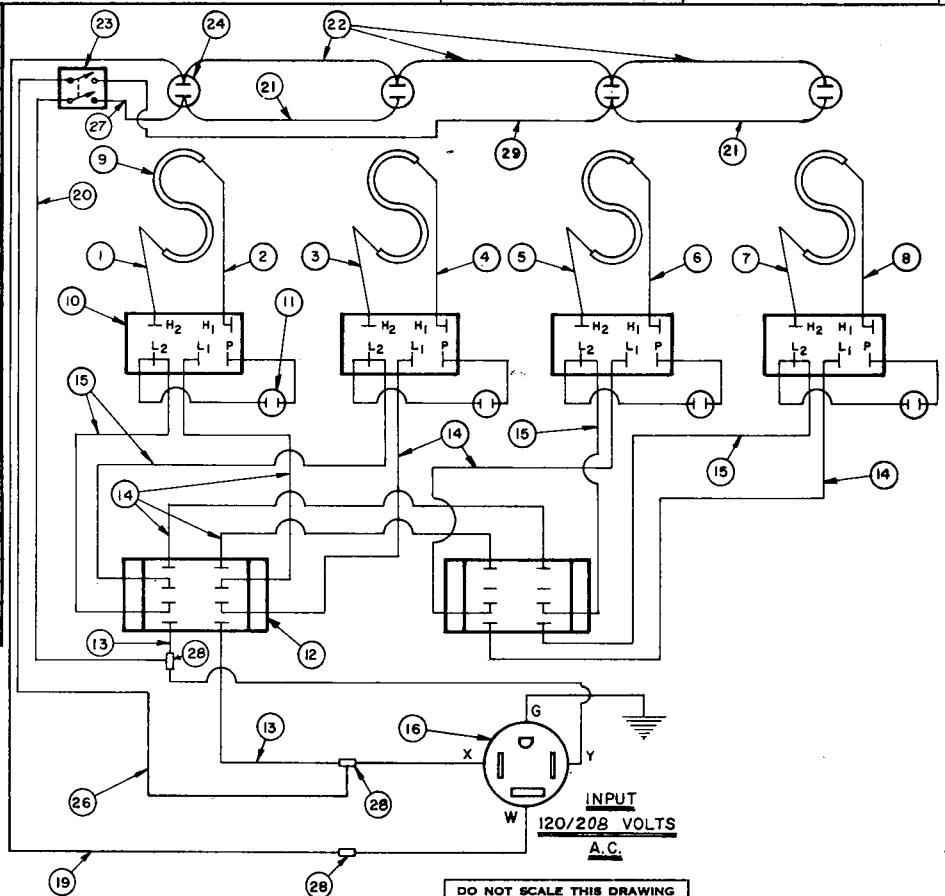
DET.	PART NO.	REQ.	DESCRIPTION
1	25527	1	23" BLACK WIRE
2	25529	1	27" BLACK WIRE
3	25530	1	27" BROWN WIRE
4	25547	1	47" BROWN WIRE
5	25545	1	47" BLUE WIRE
6	25552	1	60" BLUE WIRE
7	25550	1	60" RED WIRE
8	25562	1	72" RED WIRE
9	24479	4	HEATING ELEMENT
10	24789	4	"ROBERTSHAW" SW.
11	23066	4	PILOT LIGHT
12	24872	2	TERMINAL BLOCK
13	25554	2	60" RED WIRE
14	25523	6	9" RED WIRE
15	25525	4	9" RED WIRE
16	21502	1	POWER SUPPLY CORD
17			
18	22480	4	CONTROL KNOB (NOT SHOWN)
19	25586	1	57 1/2" WHITE WIRE
20	25592	1	52" BLACK WIRE
21	25589	2	15" BLACK WIRE
22	25588	3	15" WHITE WIRE
23	24805	1	SWITCH
24	21370	4	RECEPTACLE
25			
26	25593	1	52" RED WIRE
27	25498	1	5 1/2" BLACK WIRE
28	21510	3	WIRE NUT 74-B
29	25585	1	34" BLACK WIRE

**MODEL NO. 99146
98146**



DET.	PART NO.	REQ.	DESCRIPTION
1	25527	1	23" BLACK WIRE
2	25529	1	27" BLACK WIRE
3	25530	1	27" BROWN WIRE
4	25547	1	47" BROWN WIRE
5	25545	1	47" BLUE WIRE
6	25552	1	60" BLUE WIRE
7	25550	1	60" RED WIRE
8	25562	1	72" RED WIRE
9	24477	4	HEATING ELEMENT
10	24789	4	"ROBERTSHAW" SW.
11	23066	4	PILOT LIGHT
12	24872	2	TERMINAL BLOCK
13	25554	2	60" RED WIRE
14	25523	6	9" RED WIRE
15	25525	4	9" RED WIRE
16	21502	1	POWER SUPPLY CORD
17			
18	22480	4	CONTROL KNOB (NOT SHOWN)
19	25586	1	57 1/2" WHITE WIRE
20	25592	1	52" BLACK WIRE
21	25589	2	15" BLACK WIRE
22	25588	3	15" WHITE WIRE
23	24805	1	SWITCH
24	21370	4	RECEPTACLE
25			
26	25593	1	52" RED WIRE
27	25498	1	5 1/2" BLACK WIRE
28	21510	3	WIRE NUT 74-B
29	25585	1	34" BLACK WIRE

**MODEL NO. 99148
98148**



WIRING DIAGRAMS - HOT FOOD STATIONS

DET.	PART NO.	REQ.	DESCRIPTION
1	25527	1	23" BLACK WIRE
2	25629	1	27" BLACK WIRE
3	25530	1	27" BROWN WIRE
4	25547	1	47" BROWN WIRE
5	25545	1	47" BLUE WIRE
6	25552	1	60" BLUE WIRE
7	25550	1	60" RED WIRE
8	25562	1	72" RED WIRE
9	24478	4	HEATING ELEMENT
10	24788	4	"ROBERTSHAW" SW.
11	23065	4	PILOT LIGHT
12	24872	2	TERMINAL BLOCK
13	25555	2	60" WHITE WIRES
14	25523	6	9" RED WIRE
15	25525	4	9" RED WIRE
16	21509	1	9961 HUBBELL
17	21507	1	8/3 50 POWER SUPPLY CORD
18	22480	4	CONTROL KNOB (NOT SHOWN)
19	25554	2	60" RED WIRE
20	25592	1	52" BLACK WIRE
21	25589	3	15" BLACK WIRE
22	25688	3	15" WHITE WIRE
23	24805	1	SWITCH
24	21370	4	RECEPTACLE
25	22861	2	76 B WIRE NUTS
26	25591	1	52" WHITE WIRE
27	25498	1	5 1/2 BLACK WIRE
28	21529	1	CORD CONNECTOR - HUBBELL
29	25582	1	5 1/2 WHITE WIRE
30	22860	1	WIRE NUT 73 B
31	21617	1	FUSE - SC10
32	21618	1	FUSE HOLDER
33	21478	1	TERMINAL - NO 10 STUD

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