

INSTRUCTIONS

MODEL WM-5 SERIES DISHWASHERS

ML-33553	*WM-5*
ML-33328	*WM-5H*
ML-33329	*WM-5C*

a product of

HOBART
CORPORATION

WORLD HEADQUARTERS
TROY, OHIO 45374

FORM 14767 (1-84)

Installation, Operation and Care of MODEL WM-5 SERIES DISHWASHERS

SAVE THESE INSTRUCTIONS

GENERAL

The WM-5 Series Dishwashers are fully automatic, front loading machines which are equipped with a Hobart-built, 1/2 horsepower, electric motor.

Standard equipment includes two standard 20" x 20" racks, a dial thermometer, synchronous timer, pilot light, and front panels. Side and top panel kits are available, should a free-standing model be desired. A gasket is furnished with the side panel kit which fits around the bottom edges to seal between the machine and floor.

Three models are available: the WM-5 is the standard model; the WM-5H features a built-in booster heater; and the WM-5C is a low temperature, chemical sanitizing model, for use with 5.25% sodium hypochlorite solution (bleach) as the sanitizing agent.

INSTALLATION

UNPACKING

Immediately after unpacking the dishwasher, check it for possible shipping damage. If this machine is found to be damaged after unpacking, save the packing material and contact the carrier within 15 days of delivery.

Prior to installation, test the electrical service to assure that it agrees with the specifications on the machine data plate.

Panel Assembly

The optional panel kit(s) must be installed prior to positioning the dishwasher.

The control panel cover (Fig. 1) and extension panel (Fig. 1) must be removed.

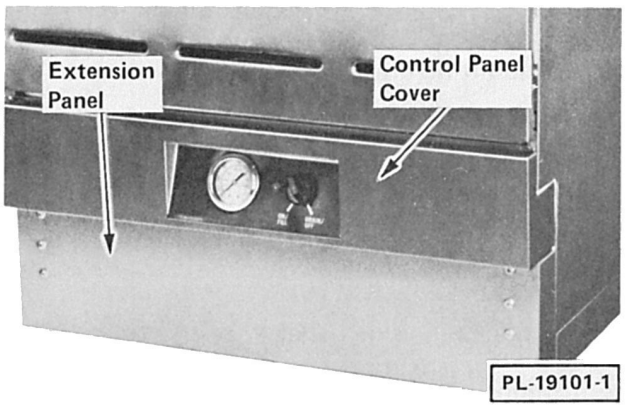


Fig. 1

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Remove the six screws which secure the lower extension panel and pull it outward.

Remove the center screw from the control panel cover and pull it outward and down.

Replace these panels at the completion of installation.

Remove the top two screws from the trim strip (Fig. 2) and loosen the remaining screws (Fig.'s 2 & 3).

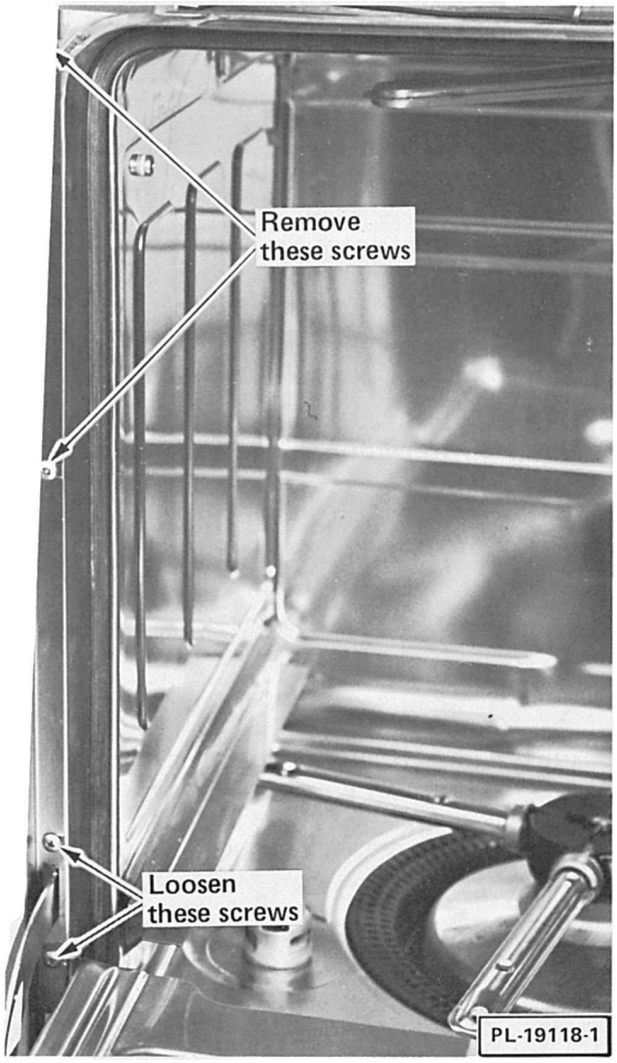


Fig. 2

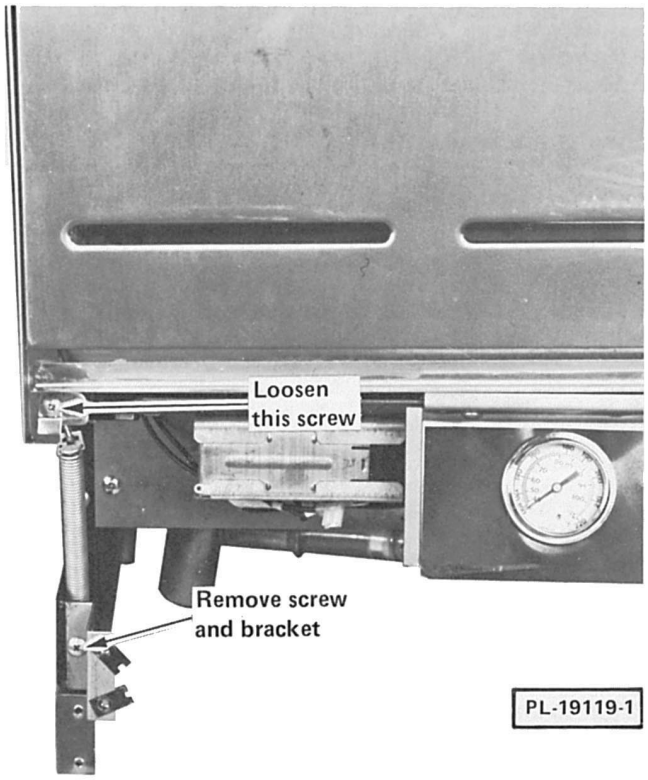


Fig. 3

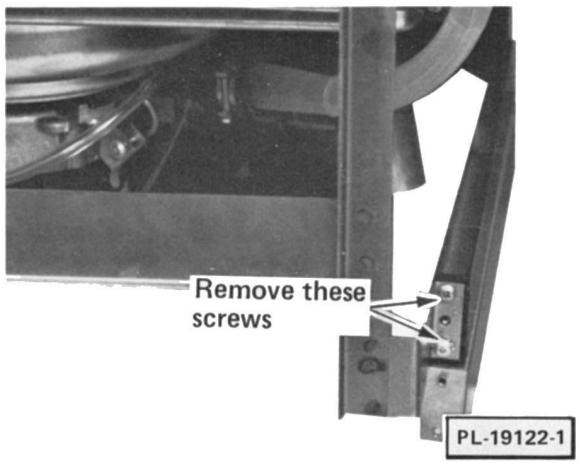
Remove the screw and lower panel mounting bracket (Fig. 3).

Remove the screws shown in Fig. 4 from the rear of the dishwasher.

Place the trim strip and side panel in position, tighten and/or replace all screws, and reinstall the lower panel mounting bracket. One screw (supplied with the kit) must be installed in the extra hole on the back of the side panel. **NOTE:** When reinstalling the trim strip, there must be approximately 1/8" clearance between the trim strip and the door.

Repeat this procedure to attach the remaining side panel.

To install the top panel, place it in position with the four locating screws in the slotted holes on top of the dishwasher; slide it as far back as it will go; and fasten it with two screws through the two holes in the top lip of the tank.



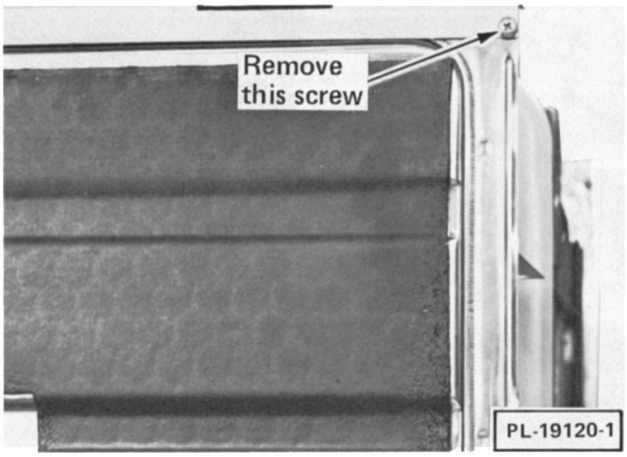


Fig. 4

LOCATION

Place the machine in its operating location. Before any connections are made, the machine must be leveled. There is a reference line (tank seam) under each rack guide inside the tank. To level the machine, pour enough water in the tank to reach the line and then thread the adjustable feet in or out until the water level is even with the reference line.

The control panel cover (Fig. 1) and extension panel (Fig. 1) must be removed to accommodate plumbing and electrical connections.

Remove the six screws which secure the lower extension panel and pull it outward.

Remove the center screw from the control panel cover and pull it outward and down.

Replace these panels at the completion of installation.

Machines without panels should be anchored to the counter under which they are installed by assembling two screws (not supplied) through the holes in the top lip of the tank.

This machine must be cleaned after installation and prior to being put into service. Refer to the OPERATION section for detailed instructions.

PLUMBING

WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY, AND PLUMBING CODES.

Fill

Required water supply characteristics are as follows:

MODEL	TEMPERATURE	FLOWING PRESSURE
WM-5	180° F (82° C) Minimum	20 ± 5 p.s.i.
WM-5H	140° F (60° C) Minimum	20 ± 5 p.s.i.
WM-5C	120° F (49° C) Minimum	20 ± 5 p.s.i.

If flowing pressure exceeds 25 p.s.i., a pressure reducing valve (not supplied) must be installed in the supply line.

A line strainer (not supplied) should be installed in the supply line upstream of a manual shutoff valve (not supplied), which would accommodate servicing of the machine.

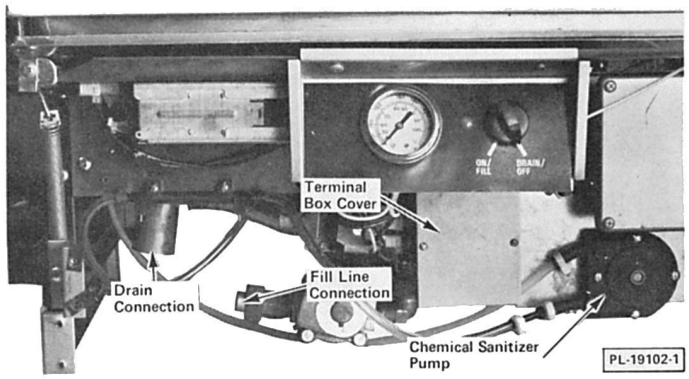


Fig. 5

Remove the fill connection sweat fitting (Fig. 5) from the fill valve at the union, connect the sweat fitting to the water supply line, and then reconnect the union.

Drain

Drain height must be no more than 8" above the floor.

A 1-1/2" connection (Fig. 5) is provided for the drain, which should be connected through a "P" trap (not supplied). Drain must have a minimum flow capacity of 10 gallons per minute.

Drain the water that was used to level the machine by manually actuating the drain valve, and check for leaks.

ELECTRICAL

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH INDICATING THAT YOU ARE WORKING ON THE CIRCUIT.

BRANCH CIRCUIT SIZE AND PROTECTION

DUAL ELEMENT TIME-DELAY FUSE;

Model	Volts	Phase	Minimum Circuit Ampacity	Maximum Fuse Size	60°C Copper Wire Size
WM-5	120	1	30	30	10
WM-5C	120	1	30	30	10
WM-5H	120/240 (3W)	1	50	50	6

NOTE: The above information compiled in accordance with the National Electrical Code, 1984 edition.

Remove the terminal box cover (Fig. 5). A hole, for 1/2" trade size conduit (3/4" for Model WM-5H), is supplied in the bottom of the terminal box. Make electrical connections per the wiring diagram supplied with the machine and replace the terminal box cover.

CHEMICAL SANITIZER (Model WM-5C Only)

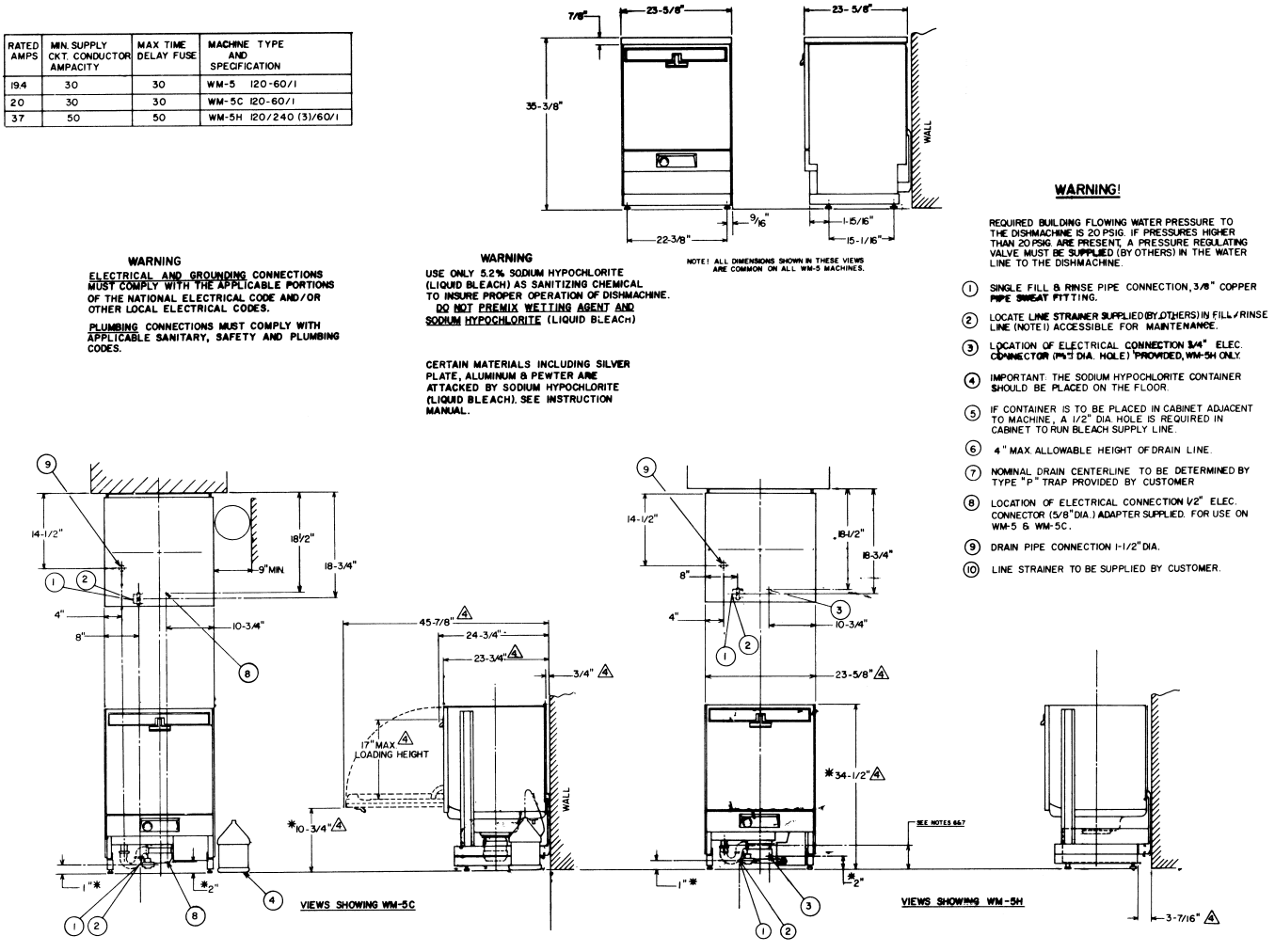
Attach the delivery tube to the chemical sanitizer pump (Fig. 5) and then attach the standpipe assembly to the delivery tube.

Place a one gallon bottle of 5.25% sodium hypochlorite solution (bleach) in a desired location no higher than 10 inches off of the floor. Do not premix the sanitizing solution with water or any other liquid as this may adversely affect the sanitizer sensing system.

WARNING: NEVER PREMIX A WETTING AGENT WITH THE SANITIZING SOLUTION. MIXING MAY CAUSE HAZARDOUS GAS TO FORM.

Remove the sanitizer bottle cap and place the standpipe assembly into the bottle. Check to assure there are no obstructions or kinks in the delivery tube.

The dishwasher must be operated through four complete cycles (without dishes) to initially charge the sanitizer delivery system.



INSTALLATION DIAGRAM
185909

OPERATION

CAUTION: Items such as pewter, aluminum, and silver will be attacked by sodium hypochlorite (bleach). Therefore, the Model WM-5C Chemical Sanitizing unit should not be used to wash such items.

PREPARATION

Check to assure that the strainer is in place and free of debris. Check both wash arms to assure that they spin freely and are not clogged.

To initially fill the machine, close and latch the door and turn the selector switch (Fig. 6) to the *On/Fill* position. When the cycle light (Fig. 6) goes off, the fill cycle is completed.



Fig. 6

DISHWASHING

Dishes must be scraped and/or rinsed to remove food particles and other debris. Place the dishes in a rack. Do not stack dishes on top of each other as water must have free access to all sides of every dish. Stand plates edgewise in a peg-type rack (Fig. 7). Cups, glasses, and bowls should lay upside down in an open or compartment-type rack (Fig. 7). Silverware and other small pieces should lay loosely on the bottom of a flat-bottom rack.

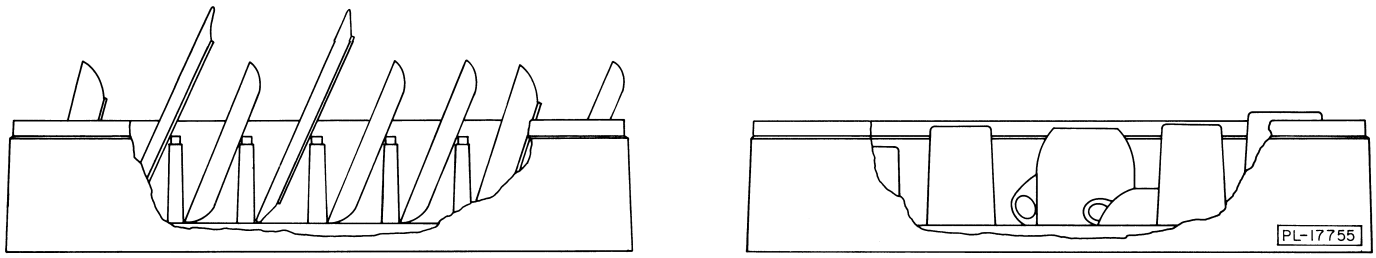


Fig. 7

Open the door and slide the rack of dishes into the dishwasher. Deposit the proper amount of detergent on the inside door panel. Consult a local detergent supplier for the type and quantity of detergent best suited for your locality.

When the door is opened, the cycle light will come on during a brief reset period. When the light goes off (approximately 8 seconds), close and latch the door, at which time the wash cycle will begin (indicated by the cycle light).

When the cycle light goes off, the cycle is completed. Unlatch and open the door, remove the rack of clean dishes, and, after the reset period, the dishwasher is ready for a repeat operation.

A thermometer (Fig. 6) is provided for convenience in checking the water temperature and should be monitored occasionally (during a rinse cycle) to assure that the dishwasher is operating with the proper minimum temperature: 120°F (49°C) for model WM-5C; 180°F (82°C) for models WM-5 and WM-5H.

Sanitizer Alert System (Model WM-5C Only)

The Sanitizer Alert System (Fig. 6) provides an audible (buzzer) and visual (light) signal which indicates that the chemical sanitizer container is empty. A reset button (Fig. 6) is provided to temporarily reset the signal (until the next cycle), however, the sanitizer MUST be replenished immediately.

After replacing the sanitizer, the dishwasher must be operated through four complete cycles (without dishes) to recharge the delivery system.

CLEANING

This machine must be cleaned at least once each working day.

Turn the selector switch to the *Drain/Off* position and allow the machine to drain completely.

Open the door and remove the wash arms and the strainer assembly (Fig. 8). When removing the lower wash arm, grasp it by the hub, not one of the arms (Fig. 8), and pull it up and out of the machine. To remove the upper wash arm, carefully loosen the retaining screw (Fig. 9). Thoroughly clean these items in a sink.

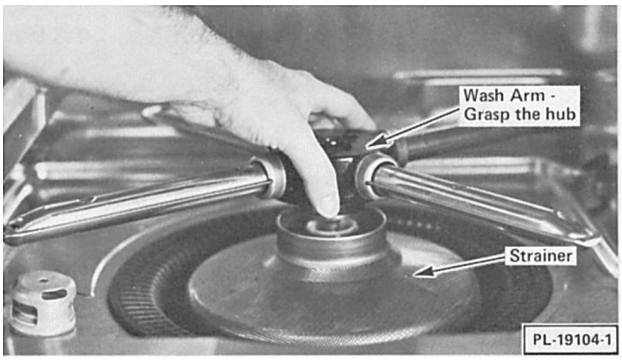


Fig. 8

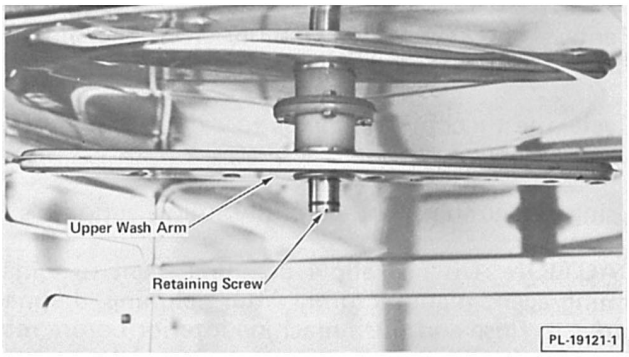


Fig. 9

With a damp cloth wipe the interior and exterior of the machine. When cleaning the inside of the door, be sure to wipe the lip at the bottom of the door.

Reinstall the strainer and wash arms and leave the door ajar overnight to allow the interior to air out and dry.

MAINTENANCE

DELIMING

The dishwasher should be delimed on a regular basis as required. The regularity will depend on mineral content of the supply water.

Inspect the machine interior for lime deposits. If deliming is necessary, a deliming agent (such as Lime Away or LSR) should be used for best results.

Depending on the model of your machine, carefully follow the appropriate procedure as outlined below.

Model WM-5C (Chemical Sanitizing Model)

WARNING: DELIMING SOLUTION, RINSE AGENTS, OR ANY OTHER KIND OF ACID MUST NOT COME IN CONTACT WITH BLEACH OR RINSE SOLUTION CONTAINING BLEACH USED IN THIS MACHINE. MIXING MAY CAUSE HAZARDOUS GAS TO FORM. THIS ENTIRE PROCEDURE MUST BE FOLLOWED STEP-BY-STEP FOR SAFE AND SATISFACTORY RESULTS.

Remove the standpipe assembly from the bleach container and place it as close to the floor as possible. Place a catch pan under it.

Cycle the machine six times to clear the lines of the bleach dispensing system. The Sanitizer Alert signal (light and buzzer) should activate.

Using a deliming agent, carefully follow supplier's instructions.

CAUTION: Do not allow deliming agent to remain in the machine longer than recommended by the deliming agent manufacturer. After deliming, the machine should be run through two cycles with no dishes in order to rinse and flush machine interior before reconnecting bleach system.

Models WM-5 or WM-5H (Hot Water Sanitizing Models)

Delime these models by carefully following the deliming agent supplier's instructions.

CAUTION: Do not allow the deliming agent to remain in the machine longer than recommended by the deliming agent manufacturer. After deliming, the machine should be run through two cycles with no dishes in order to rinse and flush the machine interior.

LUBRICATION

The motor has grease-packed ball bearings and, therefore requires no lubrication.

TROUBLESHOOTING

This section outlines various symptoms and possible causes that may be encountered in the event of abnormal machine operation. If symptoms persist after possible causes have been checked, service may be required.

SYMPTOM — No machine operation

POSSIBLE CAUSES

1. Selector switch in the *Drain/Off* position.
2. Blown fuse at power supply.

SYMTPOM — Dishes not clean

POSSIBLE CAUSES

1. Strainer clogged causing inadequate water supply to pump.
2. Obstruction in wash arm(s) — clean per instructions in CLEANING section.
3. Water temperature too low.

SYMPTOM — Spotting of silverware, glasses, or dishes

POSSIBLE CAUSES

1. Improperly loaded racks.
2. Water temperature too low.
3. Improper type or concentration of detergent — contact your local detergent representative.