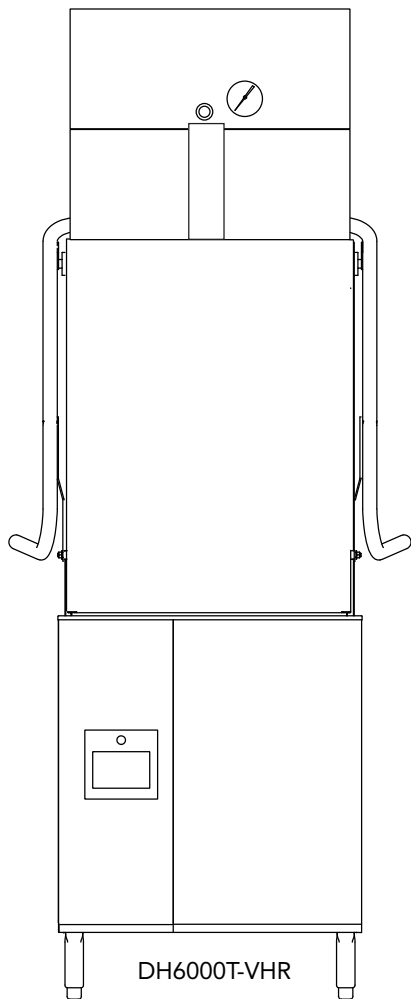


# Champion®

## Operation, Cleaning, and Maintenance Guide



### Models:

#### DH6000T-VHR

Hot water sanitizing machine w/fresh water rinse and built-in stainless steel electric booster/Ventless Heat Recovery

#### DH6000T-STANDARD

Hot water sanitizing machine w/fresh water rinse and built-in stainless steel electric booster



Issue Date: 6.10.19

**Manual P/N 116041 rev. D**

For machines beginning with S/N D190217104 and above

3765 Champion Boulevard  
Winston-Salem, NC 27105  
(336) 661-1556 Fax: (336) 661-1660  
Toll-free: 1 (800) 858-4477

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Printed in the USA



## National Service Department

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Tel: (336) 661-1556

Fax: (336) 661-1660

email: [service@championindustries.com](mailto:service@championindustries.com)

### ATTENTION

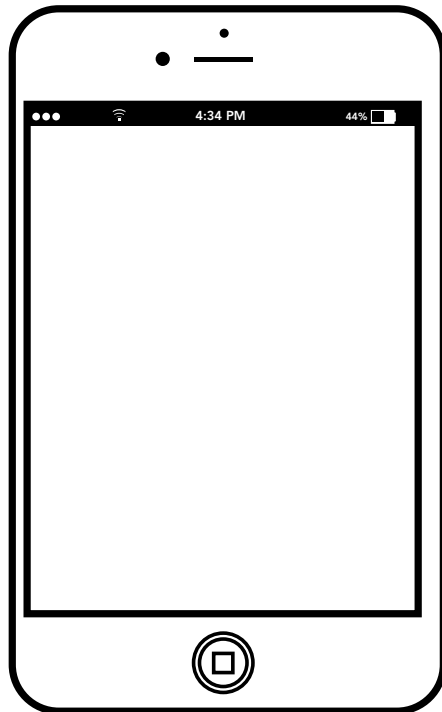
The model no., serial no., voltage, Hz and phase are needed to identify your machine and to answer questions.

The machine data plate  
is located on the right front corner  
of the lower panel

Please have this information ready  
if you call for service assistance.



# Three ways to **REGISTER YOUR PRODUCT and ACTIVATE YOUR WARRANTY.**



- Use your mobile device and connect to the website [www.championindustries.com](http://www.championindustries.com) to register your product.
- Scan the QR code <http://champDW.us> located on the front of the panel of the machine.
- Complete the fax form on the next page and fax to 1-800 661-1660.

# PRODUCT REGISTRATION BY FAX

COMPLETE THIS FORM AND FAX TO:

(336) 661-1660 in the USA

1-(800) 204-0109 in Canada

## PRODUCT REGISTRATION CARD

Model	Serial #
-------	----------

Date of Installation: \_\_\_\_/\_\_\_\_/\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_  
(Street) State/Province Zip/Postal Co

Telephone #: (    ) \_\_\_\_\_ --- \_\_\_\_\_

Contact: \_\_\_\_\_

Installation Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone #: \_\_\_\_\_

Contact: \_\_\_\_\_

**FAILURE TO REGISTER YOUR PRODUCT MAY VOID YOUR WARRANTY**

**IMPORTANT      IMPORTANT**

Specifications are subject to change based on continual product improvement.

## Revision History

Revision Date	Revised Pages	Serial Number Effectivity	Revision Description
4.29.19	All	D190217104	Released first edition
6.10.19	13-17	All	Added deliming instructions

## Limited Warranty

# LIMITED WARRANTY

Champion Industries (herein referred to as "The Company"), 3765 Champion Blvd., Winston-Salem, North Carolina 27105, and 2674 N. Service Road, Jordan Station, Ontario, Canada, L0R 1S0, warrants machines, and parts, as set out below.

**Warranty of Machines:** The Company warrants all new machines of its manufacture bearing the name "Champion and installed within the United States and Canada to be free from defects in material and workmanship for a period of one (1) year after the date of installation or fifteen (15) months after the date of shipment by The Company, whichever occurs first. [See below for special provisions relating to glasswashers.] Warranty registration must be submitted to The Company within ten (10) days after installation either online on the Champion Industries website (<http://www.champion-industries.com>) or by the fax form provided at the front of this manual. The Company will not assume any responsibility for extra costs for installation in any area where there are jurisdictional problems with local trades or unions.

If a defect in workmanship or material is found to exist within the warranty period, The Company, at its election, will either repair or replace the defective part or accept return of the machine for full credit; provided; however, as to glasswashers, The Company's obligation with respect to labor associated with any repairs shall end (a) 120 days after shipment, or (b) 90 days after installation, whichever occurs first. In the event that The Company elects to repair, the labor and work to be performed in connection with the warranty shall be done during regular working hours by a Champion authorized service technician. Defective parts become the property of The Company. Use of replacement parts not authorized by The Company will relieve The Company of all further liability in connection with its warranty. In no event will The Company's warranty obligation exceed The Company's charge for the machine. The following are not covered by The Company's warranty:

- a. Lighting of gas pilots or burners.
- b. Cleaning of gas lines.
- c. Replacement of fuses or resetting of overload breakers.
- d. Adjustment of thermostats.
- e. Adjustment of clutches.
- f. Opening or closing of utility supply valves or switching of electrical supply current.
- g. Cleaning of valves, strainers, screens, nozzles, or spray pipes.
- h. Performance of regular maintenance and cleaning as outlined in the operator's guide.
- i. Damages resulting from water conditions, accidents, alterations, improper use, abuse, tampering, improper installation, or failure to follow maintenance and operation procedures.
- j. Wear on Pulper cutter blocks, pulse vanes, and auger brush.

Examples of the defects not covered by warranty include, but are not limited to: (1) Damage to the exterior or interior finish as a result of the above, (2) Use with utility service other than that designated on the rating plate, (3) Improper connection to utility service, (4) Inadequate or excessive water pressure, (5) Corrosion from chemicals dispensed in excess of recommended concentrations, (6) Failure of electrical components due to connection of chemical dispensing equipment installed by others, (7) Leaks or damage resulting from such leaks caused by the installer, including those at machine table connections or by connection of chemical dispensing equipment installed by others, (8) Failure to comply with local building codes, (9) Damage caused by labor dispute.

**Warranty of Parts:** The Company warrants all new machine parts produced or authorized by The Company to be free from defects in material and workmanship for a period of 90 days from date of invoice. If any defect in material and workmanship is found to exist within the warranty period The Company will replace the defective part without charge.

**DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY. THE COMPANY'S WARRANTY IS ONLY TO THE EXTENT REFLECTED ABOVE. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED, TO ANY WARRANTY OF MERCHANTABILITY, OR FITNESS OF PURPOSE. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE REMEDIES SET OUT ABOVE ARE THE EXCLUSIVE REMEDIES FOR ANY DEFECTS FOUND TO EXIST IN THE COMPANY'S' DISHWASHING MACHINES AND THE COMPANY'S PARTS, AND ALL OTHER REMEDIES ARE EXCLUDED, INCLUDING ANY LIABILITY FOR INCIDENTALS OR CONSEQUENTIAL DAMAGES.**

The Company does not authorize any other person, including persons who deal in Champion dishwashing machines to change this warranty or create any other obligation in connection with Champion dishwashing machines.

# Table of Contents

Revision History.....	i
Limited Warranty.....	ii
Safety Symbols - User Manual Display.....	iv
 Operation .....	 1
Machine Assembly .....	1
Detergent Requirement.....	2
Recommended Water Hardness .....	2
Loading Wares .....	2
Machine Controls.....	3
Cycle Times.....	4
Operation Sequence.....	5
Changing Cycle Times .....	7
Rinse Sentry .....	8
Alarm Notifications .....	8
 Cleaning .....	 10
Deliming.....	13
 Maintenance.....	 17
Maintenance Schedules .....	17
Troubleshooting Chart .....	18

## Safety Symbols

The following symbols are used throughout this manual to alert the reader to important information.



### WARNING:

Warning statements indicate a condition or practice extremely important to the health of the operator or the operation of the machine.



### CAUTION:

Caution statements indicate a condition or practice that may result in damage to the machine.



### NOTE:

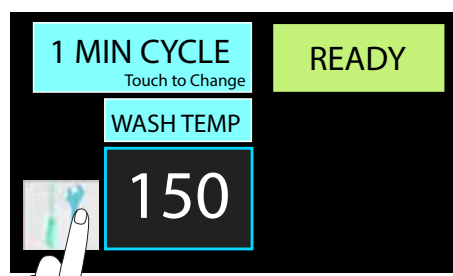
Note statements highlight important information necessary for the operation of the machine.

## User Manual Display

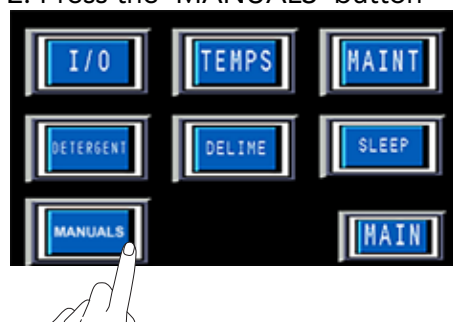
Operation and cleaning instructions are available on the dishwasher digital display.

To access the manuals:

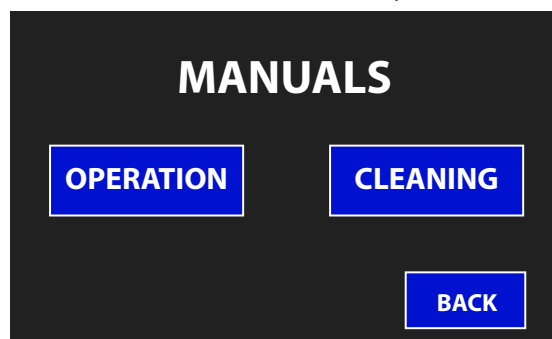
1. Press the 'TOOLS' button



2. Press the 'MANUALS' button



3. Press a manual to be viewed (Operation, Cleaning).



4. Press 'BACK' to return to MAIN screen.



# Machine Assembly

## To Assemble the dishwasher:

- Install the pump strainer.
- Install the scrap screens and screen spacer.
- Install the upper and lower wash and rinse spray arms. The arms are interchangeable.
- Make sure the arms spin freely.

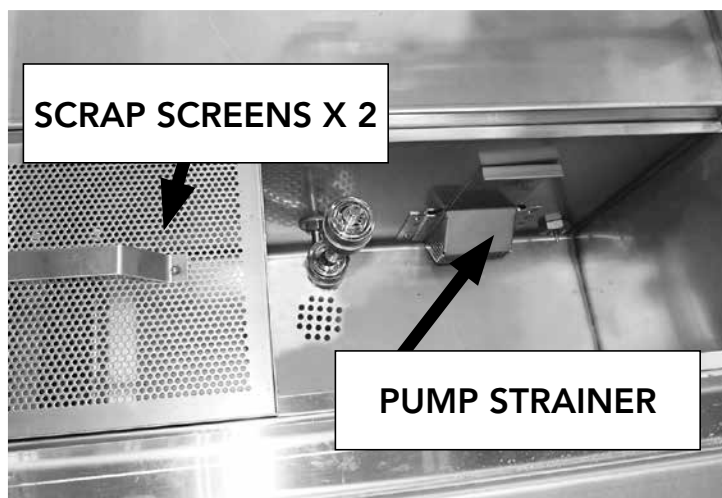


Fig. 1

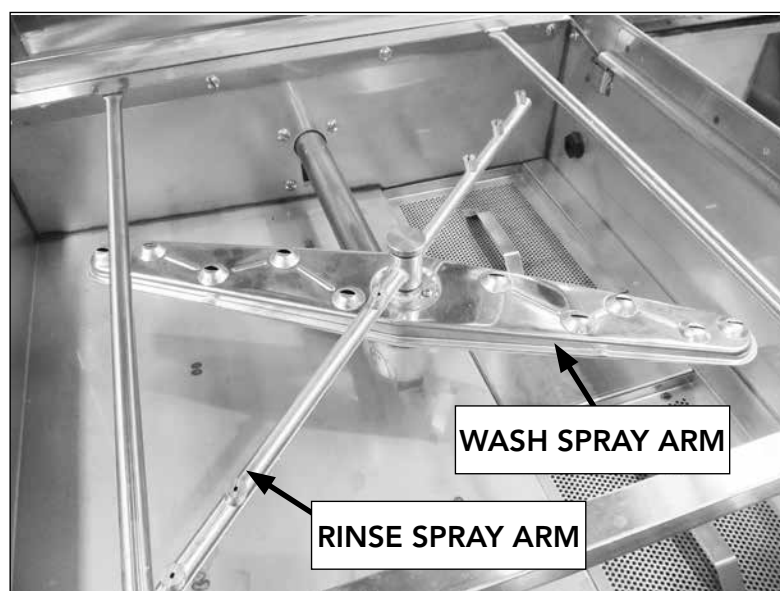


Fig. 2

## Detergent Requirement



Use a commercial grade **NON-CHLORINATED** detergent in this dishwasher. Consult the chemical supplier for the rinse-aid requirements.

## Recommended Water Hardness

- A water supply with a water hardness of 3 grains/US Gal - 0.83 Imp. Gal - 5/3mg/L or less is highly recommended.

## Loading Wares

- Wares should be scrapped and rinsed to remove large food particles and debris (Fig. 3).

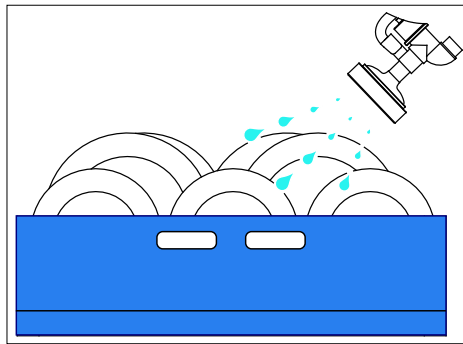


Fig. 3

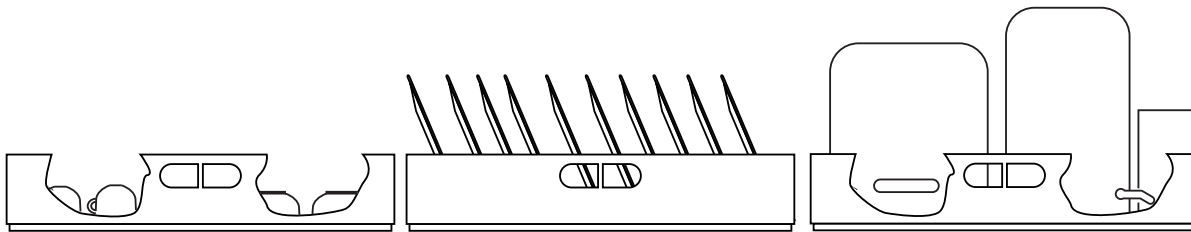


Fig. 4

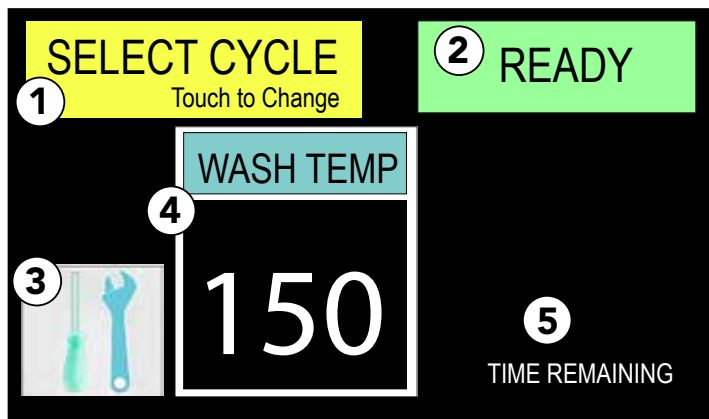
- Load plates in peg racks, bowls and cups in flat-bottom racks, and glasses in a glass rack.
- Load silverware in a single layer in a flat-bottom rack.
- Load pots, pans, and utensils upside down in a flat-bottom rack.
- Load bake sheets and trays on the short edge in a bake sheet rack.
- Do not overload dish racks and only wash one dish rack at a time.
- Never wash objects such as mops, floor mats, or other foreign materials.

## Machine Controls

The pressure gauge is located at the top of the machine. The control panel is located on the front left side of the lower panel.

- A - **Pressure Gauge** - Displays the incoming water pressure.
- B - **Latch** - Locks the doors during a cycle.
- C - **Green Push Button Power Switch** - Powers off display, heaters and opens drain.
- D - **Digital Touchscreen Display** - shows machine status and time cycle selections.

### Main Touchscreen Display



- ① Select a 1, 2, 4, or 6 minute wash cycle.
- ② Status window shows the machine operation state such as, FILLING, READY etc.
- ③ Settings Icon accesses data and maintenance menus.
- ④ Temperature display window shows wash and final rinse temperatures.
- ⑤ Time Remaining area shows the elapsed time for the Rinse, Dwell, and Recovery cycles.

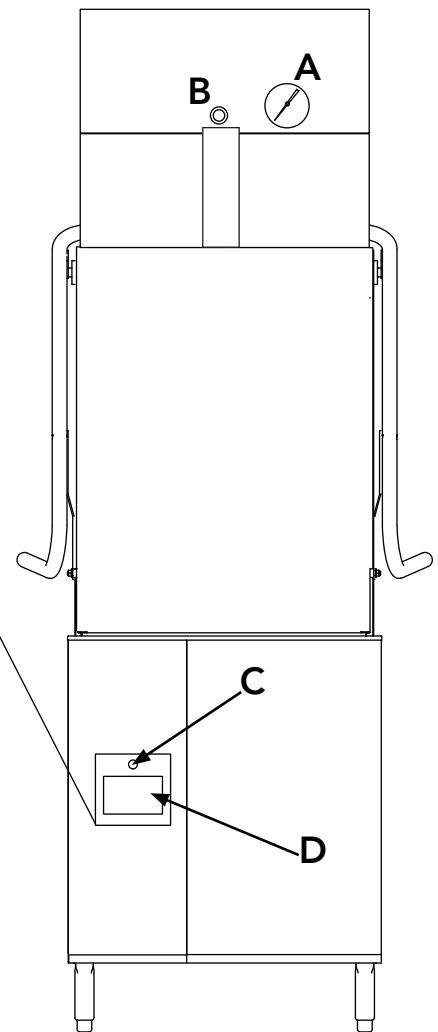


Fig. 5

## Cycle Times

- The DH6000T-VHR cycle consists of a wash, rinse, dwell and recovery time. The recovery portion of the cycle removes steam and recycles heat.

VHR CYCLE OPTION	VHR CYCLE TIMES*
<b>Dishwasher Cycle Option 1</b>	<b>Approx. 1 minute</b>
Wash*	36 seconds
Rinse	8 seconds
Dwell **	16 seconds
Recovery ***	30 seconds
<b>Dishwasher Cycle Option 2</b>	<b>Approx. 2 minutes</b>
Wash*	94 seconds
Rinse	10 seconds
Dwell **	16 seconds
Recovery **	30 seconds
<b>Pot/Pan Cycle Option 4</b>	<b>Approx. 4 minutes</b>
Wash*	214 seconds
Rinse	10 seconds
Dwell *	16 seconds
Recovery ***	30 seconds
<b>Pot/Pan Cycle Option 6</b>	<b>Approx. 6 minutes</b>
Wash*	334 seconds
Rinse	10 seconds
Dwell **	16 seconds
Recovery ***	30 seconds

STANDARD CYCLE OPTION*	STANDARD CYCLE TIMES*
<b>Dishwasher Cycle Option 1</b>	<b>Approx. 1 minute</b>
Wash	36 seconds
Rinse	8 seconds
Dwell **	16 seconds
<b>Dishwasher Cycle Option 2</b>	<b>Approx. 2 minutes</b>
Wash	94 seconds
Rinse	10 seconds
Dwell **	16 seconds
<b>Pot/Pan Cycle Option 4</b>	<b>Approx. 4 minutes</b>
Wash	214 seconds
Rinse	10 seconds
Dwell **	16 seconds
<b>Pot/Pan Cycle Option 6</b>	<b>Approx. 6 minutes</b>
Wash	334 seconds
Rinse	10 seconds
Dwell **	16 seconds

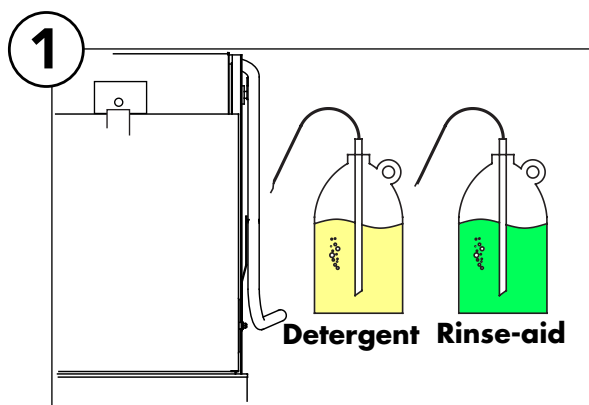
\* Cycle times can be changed when machine is washing.

\*\* Cycle pauses.

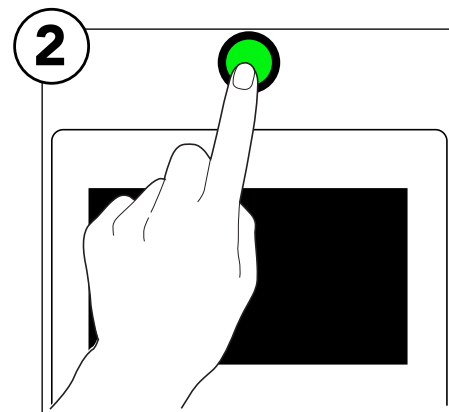
\*\*\* Exhaust fan runs to remove steam and recover heat from wash chamber.

## Operation Sequence

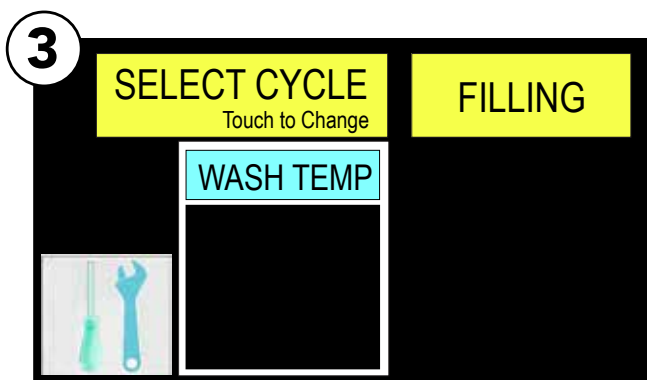
- Push the green power button on.
- FILLING is displayed
- READY displayed when the machine filled.
- Touch SELECT CYCLE button for 1, 2, 4, or 6 minute total cycle.
- Insert dish rack of wares and close doors.
- WASHING displayed during wash cycle.
- TIME REMAINING indicates the rinse, dwell, and recovery portions of the cycle are running.
- RINSING = 10 seconds and final rinse temperature is displayed
- DWELLING = 16 second pause.
- RECOVERY = 30 seconds as fan runs removing steam and heat.
- READY is displayed at the end of the cycle.



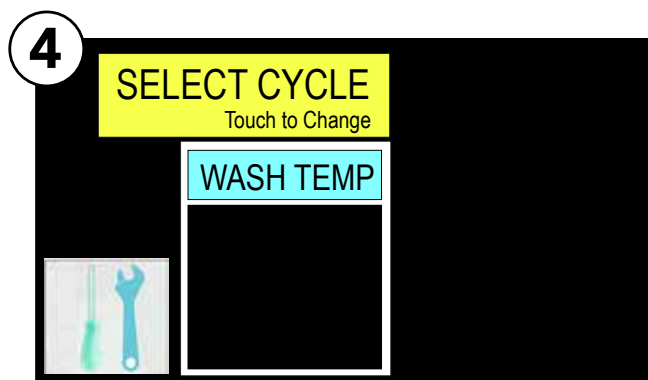
Check the chemical levels  
in the containers.



Push the green power button  
ON.

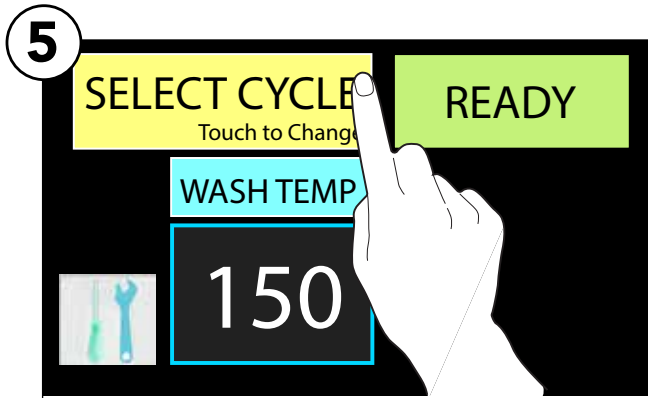


'FILLING' is displayed as machine fills  
automatically.



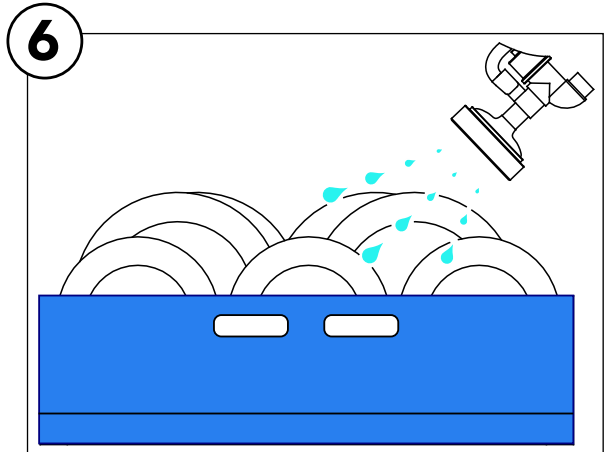
The machine preheats. Minimum wash  
temperature is 150°F.

## Operation Sequence (continued)

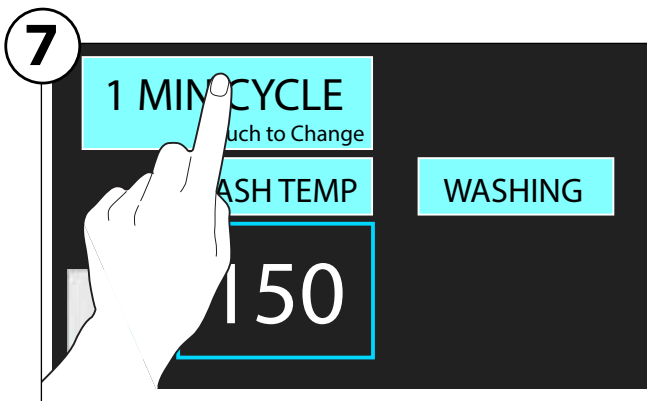


When READY appears, touch the SELECT CYCLE button to choose a cycle. Each touch advances the cycle time between 1, 2, 4, and 6 minutes.

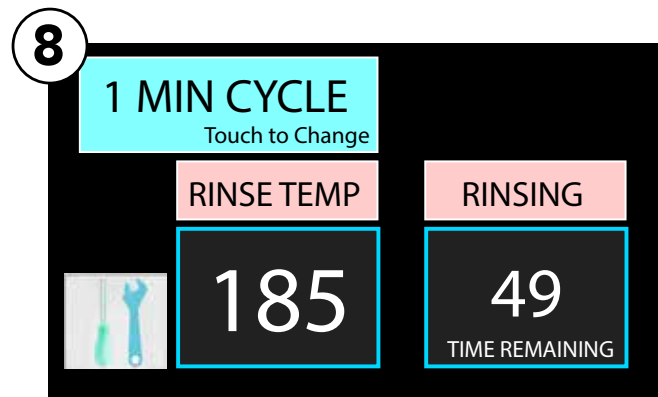
**NOTE: A cycle may be selected before or after the door is closed. Cycle starts when door is closed.**



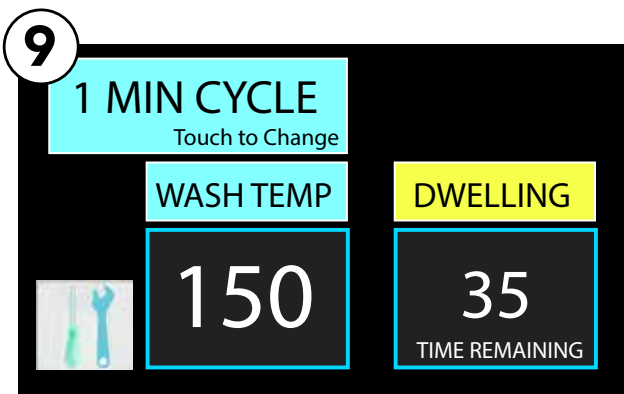
Scrap and load wares into dish rack. Wash one rack at a time and do not overload the rack. Slide the rack into the machine and close the doors.



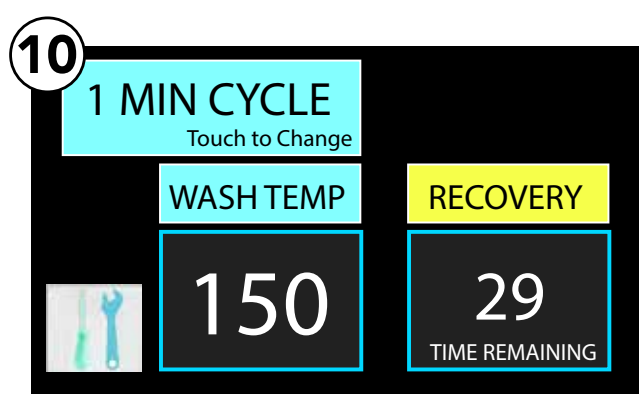
When the CYCLE is selected, the machine starts and 'WASHING' is displayed.



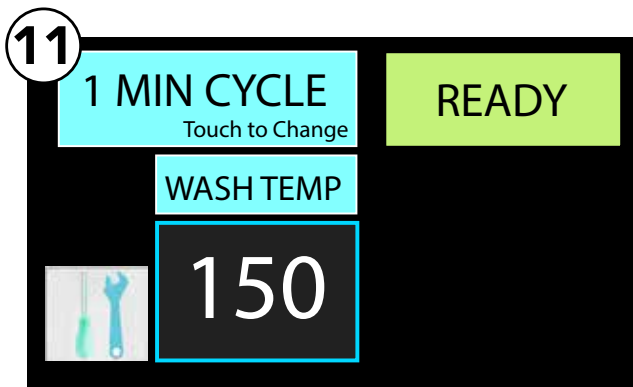
At the end of the wash cycle the 10 sec. final rinse begins. The RINSE TEMP display must read between 185-195°F.



'DWELLING' is displayed as the 16 sec. DWELL begins.



**(For VHR only),** 'RECOVERY' is displayed as the heat recovery fan runs for 30 secs. to remove steam and recover heat.



The display returns to READY at the end of the 1 MIN CYCLE. Open the doors, and remove the rack of clean wares.



**Caution:**

Wares may be hot after washing. Be careful when removing wares.

## Changing Cycle Times

- **Starting a Dishwasher Cycle**

A cycle time must be selected before closing the doors to start a cycle.

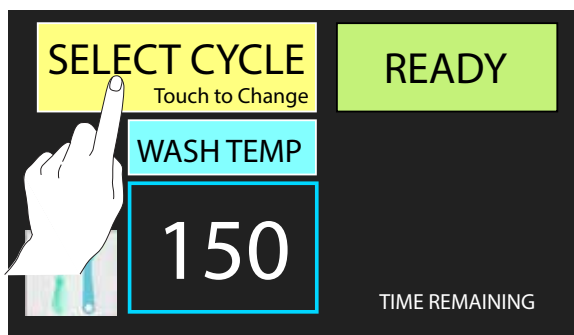
When "SELECT CYCLE" is displayed, the operator can open and close the doors without starting another cycle. Pushing 'Select Cycle' and closing the door starts a cycle.

- **Changing from a short cycle to a longer cycle.**

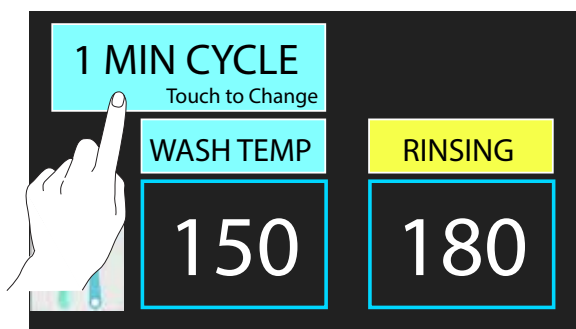
Entering a longer wash cycle when a shorter cycle is running will extend the wash cycle.

- **Changing from a long cycle to a shorter cycle while washing.**

Entering a shorter cycle when a longer cycle is running will stop the longer cycle and the short cycle will complete its time.



When displayed, Select Cycle must be pressed to begin a cycle.



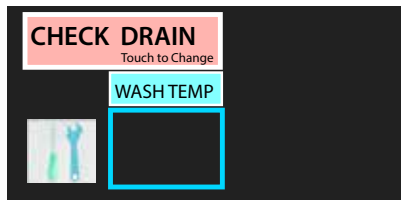
Cycle can be changed when the dishwasher is in cycle.

## Rinse Sentry

- This machine is equipped with a Rinse Sentry Feature that monitors the booster temperature during the wash cycle and will extend the wash cycle time until a minimum of 180°F is achieved in the tank. Once achieved, the machine will complete the wash cycle and perform a final rinse.

## Alarm/Notifications

### "CHECK DRAIN" ALARM



**Condition:** The dishwasher has stopped filling.

**Cause:** The machine has filled for 6 minutes but has not filled.

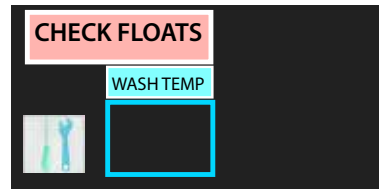
**Solution:**

- Check the wash tank upper float for something jamming it.

**TO RESET THIS ALARM:**

Push the 'CHECK DRAIN' button once the problem is fixed.  
Call service if the machine continues to alarm.

### "CHECK FLOATS " ALARM



**Condition:** The dishwasher has stopped operation.

**Cause:** The upper float is up but the lower float is not made.

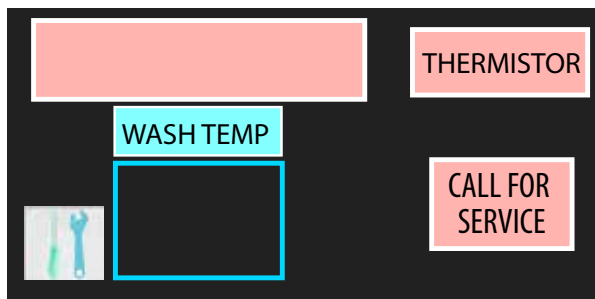
**Solution:**

- Check the wash tank lower float to see if it is jammed.

**TO RESET THIS ALARM:**

Push the 'CHECK FLOATS' button once the problem is fixed.  
Call service if the machine continues to alarm.

### "CHECK THERMISTOR" ALARM and LOCKOUT

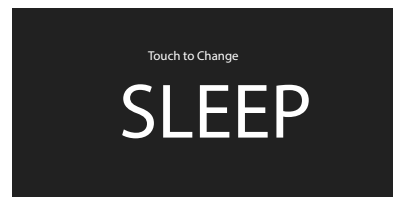


**Condition:** The dishwasher operation is locked out.

**Cause:** A temperature sensing thermistor has a problem.

**Solution:** Contact the service agent for repair.

### "SLEEP " MODE



**Condition:** Dishwasher is off; all heaters are disabled.

**Cause:** The machine was idle for user programmed time.

**TOUCH THE SCREEN TO WAKE THE MACHINE.**



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## Cleaning

- **Clean the machine at the end of each meal period or after every 2 hours of continuous operation and at the end of the day.**



**CAUTION:**

**Dishwasher surfaces may be hot. Use caution when cleaning the machine.**

### To clean the dishwasher:

1. Push the power button OFF. The electric drain valve will open and the machine will drain. The drain valve will remain open for 10 minutes. The drain valve has a lever to open it manually if necessary (Fig. 6).
2. Pushing the power button on and immediately off will open the drain valve for another 10 minutes.



*Fig. 6*

3. Open the door and flush the interior with fresh water.
4. Remove the upper and lower wash and rinse spray arms and flush with clean water (Fig. 7).
5. Check the rinse spray arm nozzles. If necessary, remove the end plugs and clean the nozzles with a small paper clip (Fig. 8). Flush the arms clean and replace the end plugs (Fig. 8).
6. Remove the scrap screens and pump strainer. Flush and back flush the screens in a sink. Do not strike the screens against hard surfaces.
7. Clean the drain in the bottom of the wash tank.

## Cleaning

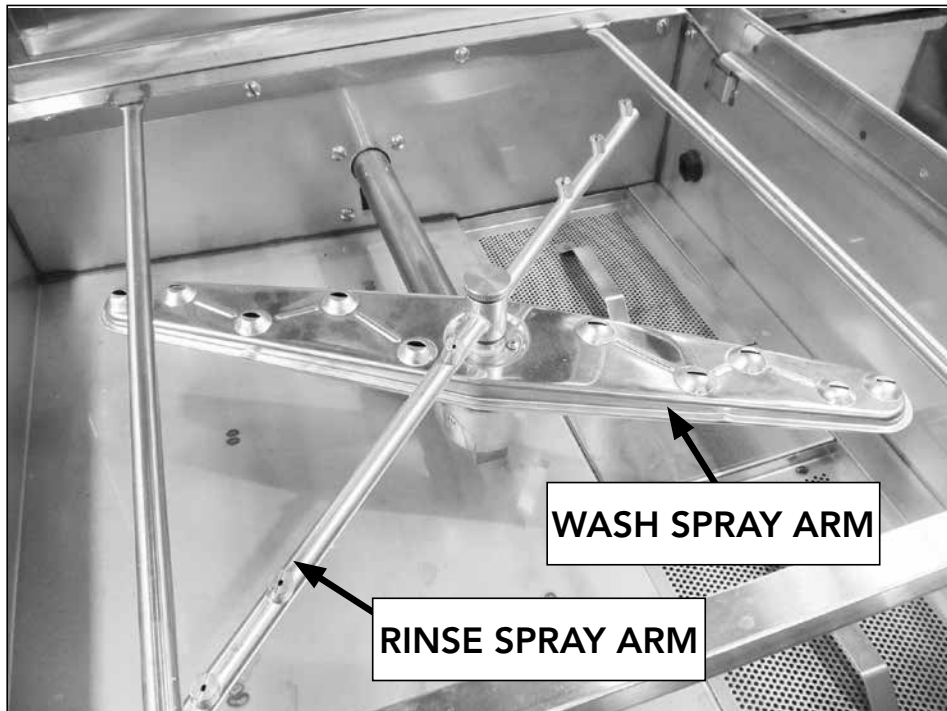


Fig. 7

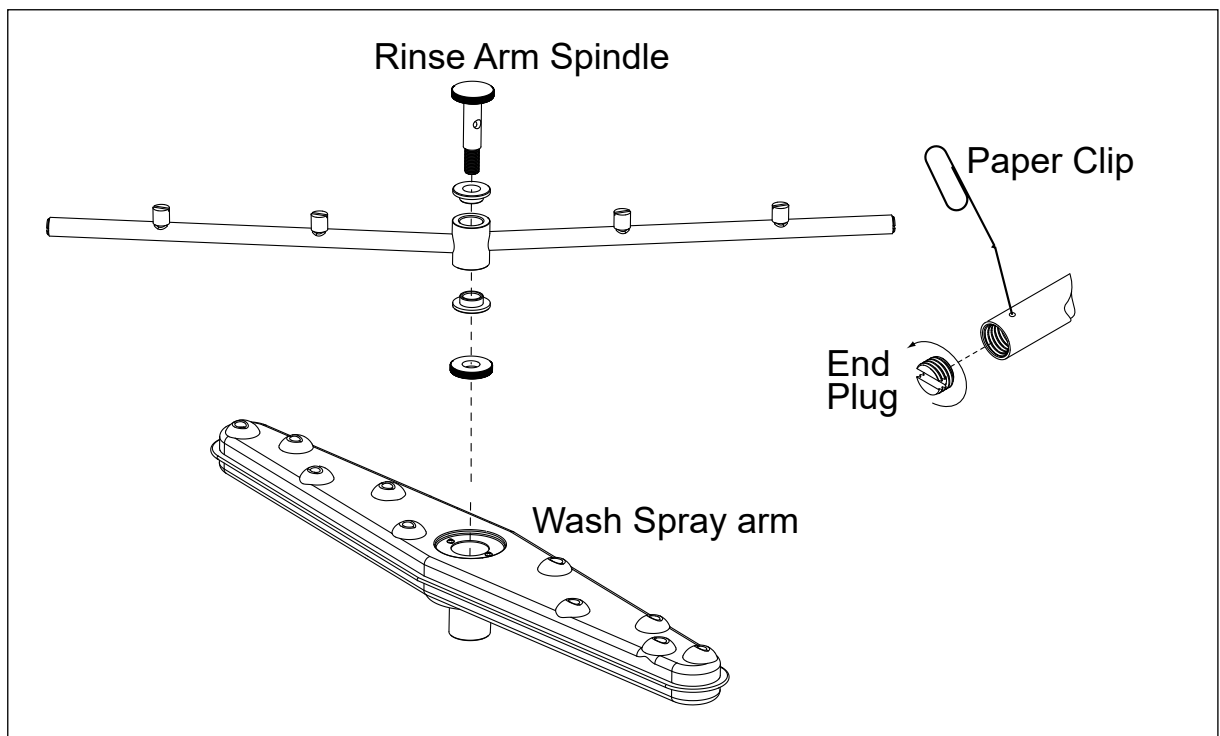


Fig. 8

## Cleaning

### Cleaning (continued)

8. Clean the float switch.
9. Clean the detergent probe with a non-metallic green Scotch Brite™ scrub pad.
10. Wipe the interior with a soft cloth.
11. Reinstall the scrap screens and spray arms making sure the spray arms spin freely.
12. Wipe the machine exterior clean with a soft cloth and mild detergent.

**DO NOT FLUSH THE EXTERIOR OF THE MACHINE WITH WATER.**

13. Leave the doors open to aid in overnight drying of the machine interior.

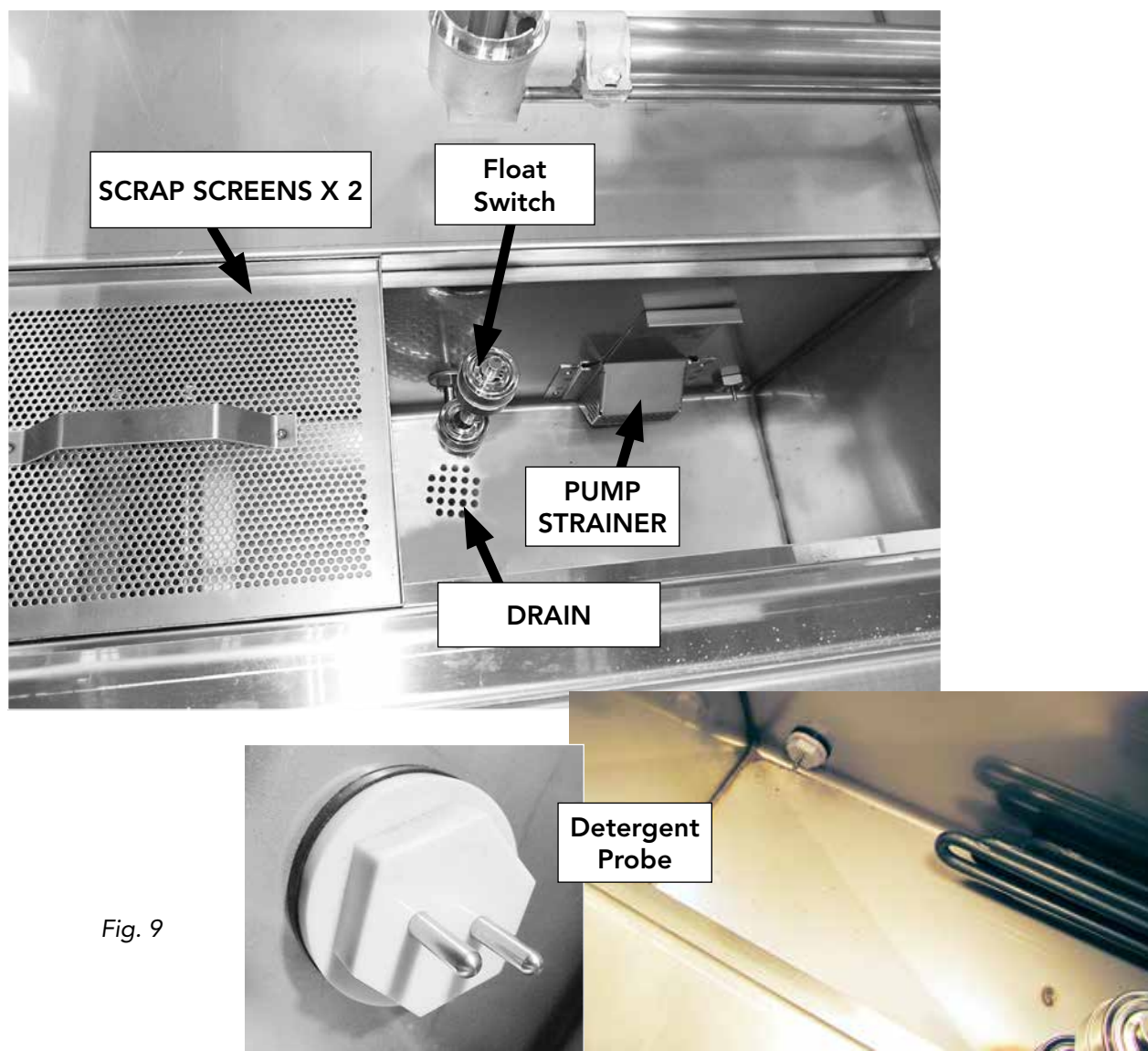


Fig. 9



## Deliming



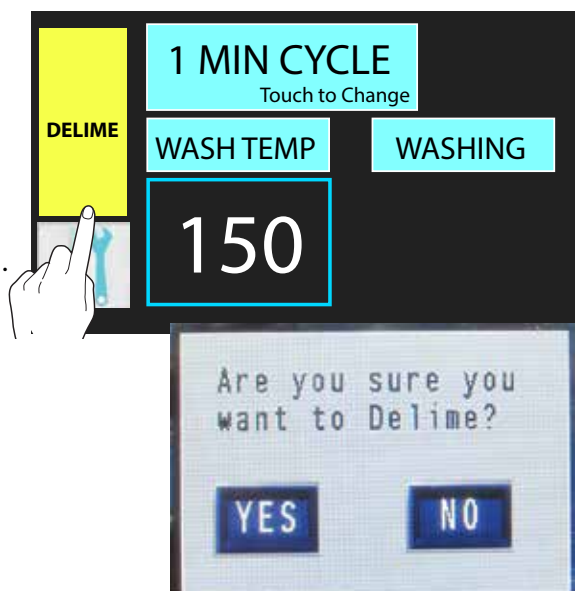
### WARNING:

Consult the chemical representative's recommendations for the use of deliming chemicals. Wear protective clothing, goggles and face shield when handling chemicals.

Deliming intervals are determined by the amount of lime build-up in the dishwasher. A password protected delime time interval is adjustable by manager, maintenance or service.

## Delime Alarm

- A yellow "DELIME" button will appear when deliming is due.
- Press the "Delime" button.
- The message box below appears.
- Press "YES" to begin deliming, "NO" to pause.
- The yellow "Delime" button will reappear again later.



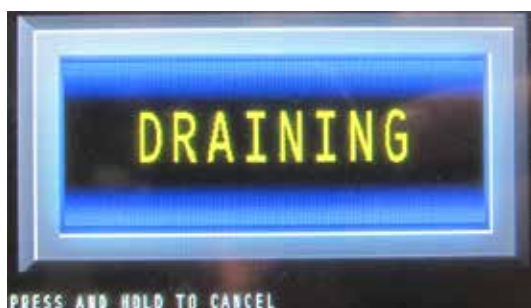
### NOTE:

Deliming can also be started manually.  
See page 17 for instructions.

**Step1:** Deliming begins when "CLOSE DOOR TO START" displayed. The operation can be stopped by pressing and holding the words "PRESS AND HOLD TO CANCEL" below the message window.



**Step 2:** "DRAINING" displayed as machine drains.



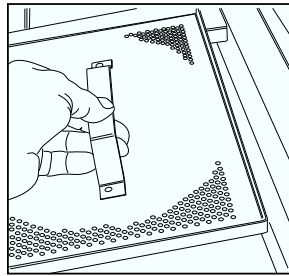
## Deliming



### Deliming (continued)

**Step 3:** "CLEAN SCREENS" picture displayed.

- Remove scrap screens.
- Clean food soils.
- Reinstall screens.



**Step 4:** "CLOSE DOOR TO FILL" displayed.



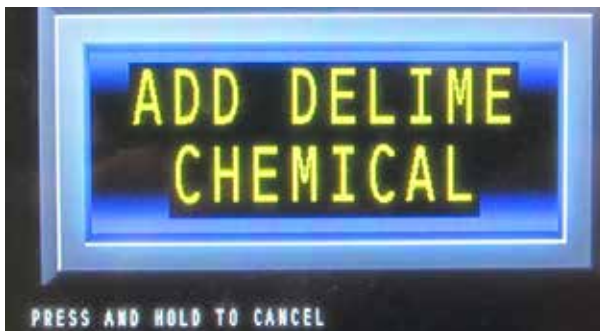
**Step 5:** Close doors and machine fills.

- "FILLING" displayed.



**Step 6:** "ADD DELIME CHEMICAL" displayed.

- Open the doors and add the delime chemical according to the chemical representative's instructions.
- The wash tank capacity = 10 US gals.
- **DELIMING OPERATION CAN NOT BE STOPPED ONCE DELIMER IS ADDED.**



**Step 7:** "CLOSE DOOR TO START" displayed.



**Step 8:** "DELIME IN PROGRESS"

- Door latches
- Green power button deactivates
- Machine washes.
- The remaining WASH DELIME time in minutes is displayed on screen.



**Step 9:** "TIME REMAINING" disappears from screen.  
"DRAINING" displayed.

- Door remains latched
- Green power button deactivated
- Drain valve opens and machine drains.





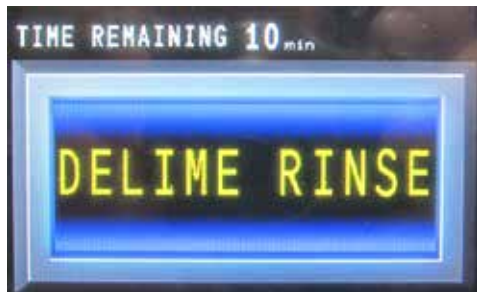
## Deliming (continued)

### Step 10: Machine Fills



### Step 11: "DELIME RINSE" displayed.

- Final rinse water valve opens for the pre-programmed time.
- Time remaining displayed on screen.
- Valve closes.



### Step 12: "COMPLETE" displayed.

- Deliming operation complete.
- Door latch unlocks.
- Green power button reactivated.
- Make sure door is closed.
- Push "COMPLETE" button to fill machine.
- Resume normal operation.

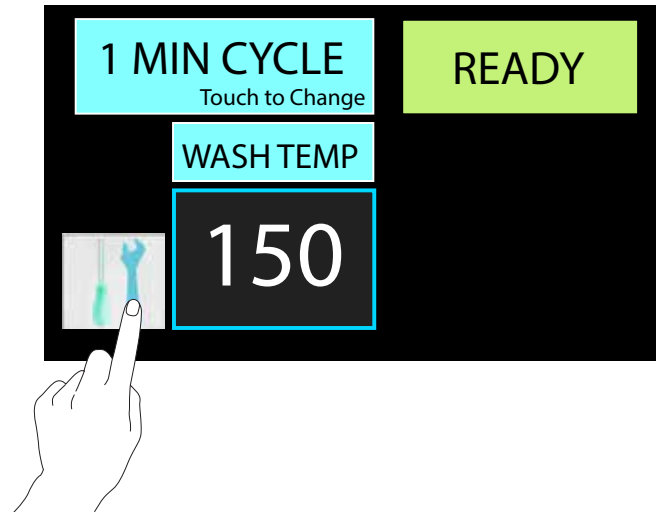




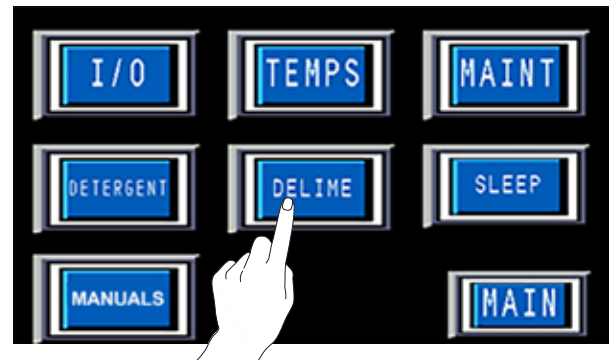
## Manual Delime Start

Deliming can be started manually without waiting for the scheduled interval. To start:

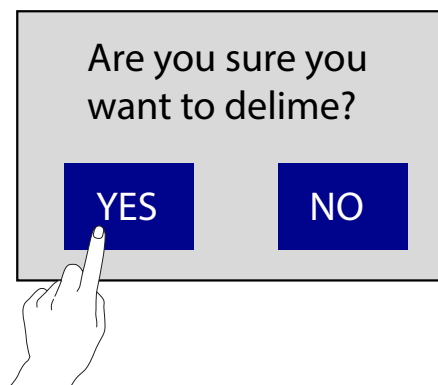
- Press the main screen 'TOOLS' button.



- Press the 'DELIME' button.



- Press DELIME START to begin.
- The message box below appears to confirm the selection.
- Press "YES" to begin deliming, "NO" to cancel.
- Follow the screen prompts beginning on page 13 to delime.



# Maintenance

## Maintenance Schedules

### Daily Maintenance

- Check the chemical container levels
- Make sure the water supply is on and the drain is clear of debris.
- Clean the machine.
- Check all of the wash arm and rinse arm spray jets and clean as necessary.
- Check the digital display for damage.
- Make sure the dish racks are in good condition

### Weekly Maintenance

- Inspect the water and the drain lines for leaks.
- Check underneath the dishwasher for leaks.
- Make sure the floor drains are clear of debris and handle the machine drain flow.

### Monthly Maintenance

- Check and delime machine if required.
- Replace damaged scrap screens.
- Replace worn spray arm bearings.

### Yearly Maintenance

Contact your authorized service agent for a preventive maintenance inspection.

### Lubrication

There are no lubrication points or schedules for this dishwasher.

# Troubleshooting Chart

Condition	Cause	Solution
Dishwasher will not run. HMI unresponsive.	Hood not closed/bad door switch. Bad pump/contactactor. Power off/overload tripped. Cycle not selected	Close Hood completely. Check breaker on panel. Select 1,2,4 or 6 min. cycle.
Low or no water.	Main water supply is off. PRV setting incorrect. Line strainer clogged. Valve of float defective.	Open supply valve. Set to 20-22 PSI flowing. Contact Service Agent. Contact Service Agent.
Chemicals won't feed into dishwasher.	Chemical supply low. Pick-up tube clogged. Supply tubing damaged. Supply tubing kinked Detergent Pump Error Squeeze tube worn.	Refill chemical container. Rinse tube with warm water. Replace tubing. Straighten tubing. Check chemical containers. Replace squeeze tube.
Poor wash results.	Wares incorrectly loaded in dish rack. Clogged screens. Clogged spray arms. Chemical injectors not feeding. Detergent Dispenser leaking. Water temperature below 55°F for VHR.	Reposition wares or reduce amount of wares. Clean screens. Clean spray arms. Check chemical supplies.  Repair detergent pump hose. Contact Service Agent Increase water temp to 75°F.
Dishwasher stays in wash cycle.	Rinse Sentry extends wash mode to allow final rinse water booster temperature to reach 180°F/82°C.	Contact Service Agent.
Dishwasher will not drain.	Drain screen. Drain valve defective.  Building drain clogged.	Clean screen. Contact Service Agent, open drain valve manually to drain. Contact Building Maintenance.
Excessive steam is escaping the Heat Recovery System.	Incoming cold water temp. above 75°F. Incoming water pressure is below 45 PSI flowing pressure at the dishwasher. Recovery coil or fan defective.	Check incoming water temperature. Check incoming water pressure. Check machine level. Contact Service Agent.

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