

INSTRUCTIONS  
MODELS  
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EMPLOIES

# LXn / LXGn SERIES DISHWASHERS



## MODELS

LXnC  
LXnH  
LXnR

LXGnPR  
LXGnR



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# Installation, Operation and Care of LXn / LXGn SERIES DISHWASHERS

## SAVE THESE INSTRUCTIONS



## GENERAL

The LXn / LXGn series dishwashers are fully automatic, front-loading dishwashing machines. The LXn / LXGn series machines are capable of doing 13 to 38 racks per hour, depending on model and cycle selection.

All LXn / LXGn series dishwashers shut down automatically 4 hours after last use to conserve energy.

All LXnH, LXnR and LXGnR dishwashers include Sense-A-Temp™ to insure proper hot water temperature during rinse.

Standard equipment includes two 20" x 20" racks, electronic controls, drain pump, rinse pump, chemical pumps, fill hose, and drain hose.

### MODEL

### DESCRIPTION

LXnC, LXGnPR

Fresh water rinse; low-temperature, chemical-sanitizing models for use with 6% sodium hypochlorite solution (bleach) as the sanitizing agent\*. Note: If 8.40% bleach is to be used, contact Hobart Service or your chemical supplier to change the sanitizer pump settings. (Charges may apply.)

LXnH

Fresh water rinse with a built-in 70°F rise booster heater. This allows an incoming water temperature of 110°F.

LXnR, LXGnR

Fresh water rinse with an internal energy recovery unit and a built-in 70°F rise booster heater. Recommended incoming water temperature 55°F to 80°F.

\* Sanitizing agent must be used in accordance with the EPA-registered label use instructions.

# INSTALLATION

## UNPACKING

Immediately after unpacking the dishwasher, check for possible shipping damage. If the machine is found to be damaged, save packaging material and contact the carrier within 5 days of delivery.

## LOCATION

Prior to installation, verify that the electrical supply agrees with the specifications on the machine data plate, which is located on the top of the door.

Steam generated from normal operation may escape from the door. Wood, laminates, veneers, etc. are unsuitable materials for use in areas exposed to dishwasher steam and detergents. Stainless steel or other moisture-resistant shields are recommended for surfaces adjacent to LXn / LXGn sides and top.

## LEVELING

The machine must be level to operate properly. Place the dishwasher in its operating location. Level the machine before any connections are made. Using a carpenter's level placed diagonally on the rack tracks, level the machine front to back and side to side by threading the adjustable feet in or out. After leveling the machine, cover the exposed threads of the adjustable feet with the black rubber tubing shipped with the machine. (See separate instructions furnished with machine.)

## PLUMBING CONNECTIONS

**⚠ WARNING** Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

### Water Requirements

Proper water quality can improve ware washing performance by reducing spotting, enhancing effectiveness of labor and extending equipment life. Water conditions vary from one location to another. The recommended proper water treatment for effective and efficient use of this equipment will also vary depending on the local water conditions. Ask your municipal water supplier for details about your local water conditions prior to installation.

Recommended water hardness is 3 grains of hardness per gallon or less. Higher hardness may cause excessive formation of lime scale. Water hardness above 3 grains per gallon requires water treatment. Water treatment has been shown to reduce costs associated with machine cleaning, reduce deliming of the dishwasher and reduce detergent usage in the dishwasher.

**NOTICE** High iron levels in the water supply can cause staining and may require an iron filter. High chloride levels in the water supply can cause pitting and may require a chloride removal system. Contact your local water treatment professional for proper water treatment.

Sediment may require a particulate filter. Dissolved solids may require water treatment such as a water softener, reverse osmosis system, etc. Contact your local water treatment professional for proper water treatment.

If an inspection of the dishwasher or booster heater reveals lime buildup after the equipment has been in service, water treatment is recommended. If a water softener is already in place, ensure there is a sufficient level of salt. Contact your local Hobart Service office for specific recommendations.

### Water Supply Connection

A water hammer arrestor (meeting ASSE-1010 Standard or equivalent) should be installed (supplied by others) in the common water supply line at the service connection.

The plumber connecting this machine is responsible for making certain that water lines are THOROUGHLY FLUSHED OUT BEFORE connecting to the dishwasher. This "flush-out" is necessary to remove all foreign matter; such as chips (resulting from cutting or threading of pipes), pipe joint compound from the lines; or, if soldered fittings are used, bits of solder or cuttings from the tubing. Debris, if not removed, may lodge in the dishwasher's plumbing components and render them inoperative. Manual valves or solenoid valves fouled by foreign matter and any expenses resulting from this fouling are NOT the responsibility of the manufacturer and associated repair costs are not covered under warranty.

Water supply requirements are as follows:

#### WATER SUPPLY REQUIREMENTS

Model	Sanitizing Mode	Connection	Water Supply		
			Minimum	Maximum	Recommended
LXnC	Chemical Sanitizing	Hot Water	120°F (49°C)	140°F (60°C)	140°F (60°C)
LXnH	Hot Water Sanitizing	Hot Water	110°F (43°C)	N/A	140°F (60°C)
LXnR	Hot Water Sanitizing	Cold Water	55°F (13°C)	80°F (27°C)	65°F (18°C)
LXGnPR	Chemical Sanitizing	Hot Water	120°F (49°C)	140°F (60°C)	140°F (60°C)
LXGnR	Hot Water Sanitizing	Cold Water	55°F (13°C)	80°F (27°C)	65°F (18°C)

**NOTE:** For LXnR or LXGnR installations, if cold water supply temperature is consistently above 80°F or if excessive water vapor or steam is entering the room after the condensing cycle is complete, contact Hobart Service to increase condensing time.

Required flowing water pressure to the dishmachine is 15-65 PSIG. If pressures higher than 65 PSIG are present, a pressure regulating valve must be installed in the water line to the dishmachine (by others). If flowing pressure is less than 15 psi, improper machine operation may result. All LXn / LXGn models are equipped with a pumped rinse system; therefore, a water pressure gauge is not required and is not supplied with the machine.

**NOTICE** The water pressure regulator must have a relief bypass. Failure to use the proper type of pressure regulator may result in damage to the unit.

A manual shutoff valve (not supplied) should be installed upstream of the fill hose to accommodate servicing the machine.

It is recommended that a line strainer (not supplied) be installed in the supply line between the manual shutoff valve (not supplied) and the connection point on the machine. Make plumbing connections with ½" minimum copper piping OD (¾" recommended), with a ¾" male garden hose fitting (not supplied).

### Drain

A drain hose, 5/8" inside diameter and 6' long, is provided with the machine. This should be securely plumbed into a drain. Use care not to kink the hose. Drain must have a minimum flow capacity of 5 gallons per minute.

If a grease trap is required by code, it should have a minimum flow capacity of 5 gallons per minute.

## ELECTRICAL CONNECTION

**WARNING** Electrical and grounding connections must comply with the applicable portions of the National Electrical Code, NFPA 70 (latest edition), and / or other local electrical codes.

**WARNING** Disconnect the electrical power to the machine and follow lockout / tagout procedures.

### Electrical Data

**NOTICE** For supply connections, use copper wire only rated at 90°C minimum.

Refer to the wiring diagram located on the back side of the lower front panel and to the machine data plate located at the top of the door for service size requirements when connecting the dishwasher. Also, refer to the electrical data chart shown below.

### ELECTRICAL DATA

Model	Volts/Hertz/Phase	Minimum Supply Circuit Conductor Ampacity	Maximum Protective Device Ampacity
LXnC LXGnPR	120/60/1	20	20
LXnH LXnR	208-240/60/1	40	40
	208-240/60/3	30	30
	220-240/50/1	40	40
LXnH LXnR LXGnR	120/208-240(3W)/60/1*	40	40
LXnH-30 LXnR-30 LXGnR-30	120/208(3W)/60/1*	30	30

\*The (3W) systems require three power wires that include a current carrying neutral. An additional fourth wire must be provided for machine ground.

## Connection Method

1. Remove the lower front panel by removing the two screws at the bottom of the panel (Fig. 1).



Fig. 1

2. Open door of dishwasher and remove the two left screws and the top right screw (Fig. 2). Pull top of unit forward approximately 1" and remove the left side panel.



Fig. 2

3. A  $1\frac{3}{8}$ "-diameter hole for a conduit connection is supplied at the lower right in the back of the machine (Fig. 3). If necessary due to space requirements, remove the knockout and use a 45° fitting.

**NOTE:** If using knockout with a 45° fitting, plug open hole.



**Fig. 3**

4. Install proper size conduit and fitting based on voltage supply and wire size. Leave at least four feet of electrical line between wall connection and machine. This allows machine to be pulled away from the wall for cleaning and/or servicing.
5. Feed wires thru base of unit to front of unit. At least 24" and not more than 28" of the required wire size must extend from the end of the conduit fitting.
6. Make electrical connections according to wiring diagram supplied with the machine and secure wires to the machine service connection. Keep excess wire in the base of the unit to a minimum.
7. Replace the left side panel, top of unit, and lower front panel. Re-install the three screws located behind the door and the two screws at the bottom of the front panel.

## CHEMICALS

### Detergent and Rinse Aid

Use only commercial-grade detergents recommended by your chemical professional. Do not use detergents formulated for residential dishwashers.

The detergent and rinse aid pump "ON" times are factory-set. If adjustments are required, contact your local Hobart Service Office or your chemical supplier.

Place the detergent and rinse aid containers (which are obtained from an independent supplier) in a location where the delivery tubes will reach them.

Remove the detergent bottle cap and put the *red* delivery tube in the detergent container.

Remove the rinse aid bottle cap and place the *blue* delivery tube in the rinse aid container.

Be sure to push the delivery tube standpipes completely to the bottom of each container. Check to make sure there are no obstructions or kinks in the delivery tubes.

## Chemical Sanitizer (LXnC & LXGnPR)

**NOTICE** Items such as pewter, aluminum and silver will be attacked by sodium hypochlorite (bleach). Therefore, chemical-sanitizing dishwashers should not be used to wash such items.

On models LXnC & LXGnPR, the chemical sanitizer pump is factory-set for use with 6% sodium hypochlorite solution.

**NOTICE** If 8.40% sodium hypochlorite solution is to be used, contact your local Hobart Service Office.

On LXnC models, place a 1-gallon bottle of 6% or 8.40% sodium hypochlorite solution (bleach) in a suitable location no higher than 10 inches off the floor. Do not pre-mix sanitizing solution with water or any other liquid.

On LXGnPR models, place a sanitizer approved for potable water rinse machines in a suitable location no higher than 10 inches off the floor. Do not pre-mix sanitizing solution with water or any other liquid.

**⚠ 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 *white* delivery tube in the sanitizer container. Be sure to push the delivery tube standpipe completely to the bottom of the container. Check to make sure there are no obstructions or kinks in the delivery tube.

Frequently check your sanitizer bottle to make sure there is a sufficient chemical supply.

## Testing Sanitizer Concentration (LXnC & LXGnPR)

Verify there is sufficient chemical supply in the sanitizer bottle and that the delivery tube standpipe is inserted completely to the bottom of the chemical container. Place a glass rack, with glasses, in the machine.

On LXnC models, press the WASH button to run a cycle. At the end of the cycle, open the door.

On LXGnPR models, the PuriRinse feature must be deactivated to properly check the sanitizer concentration. To deactivate PuriRinse, press the MENU button in the upper right corner of the display. Using the Up & Down arrow buttons, scroll down until Check Sanitizer is highlighted and press the ENTER button. Highlight Yes and press the ENTER button. Press the WASH button to run a cycle without PuriRinse. At the end of the cycle, open the door.

Follow the directions precisely that are on the litmus paper vial and test the water on the surface of the bottom of the glasses. Concentration should be 50 p.p.m. minimum to 100 p.p.m. maximum.

If reading is incorrect, contact your local Hobart Service office or chemical provider for adjustments.

## Deliming Solution

All LXnR, LXGnR and LXGnPR models are equipped with an automatic deliming system. At installation, a qualified Hobart Service technician or your chemical supplier must adjust the total water hardness setting to properly set the delime intervals.

Remove the deliming agent bottle cap and put the *black* delivery tube in the container.

Be sure to push the delivery tube standpipe completely to the bottom of the container. Check to make sure there are no obstructions or kinks in the delivery tube.

## Chemical Pump Priming

When a chemical becomes empty, the priming operation automatically starts the next time the machine is turned on or a wash cycle is started. Note that the initial prime time for all pumps (Detergent, Rinse Aid and Sanitizer) is 60 seconds. If the chemical is not sensed within 60 seconds, the add chemical indicator will display. After the chemical is sensed, the indicator turns off and the pump continues to prime for 10 seconds to allow the chemicals to reach the machine.

If chemicals are not sensed after three consecutive wash cycles, an error will display for the corresponding chemical. Ensure the corresponding chemical bottle is not empty and that the cap and tube are properly secured to the chemical bottle. Replace the chemical bottle if empty. Press the ENTER button to prime the chemical pump.

If the chemical bottles are not empty and the delivery tube standpipes are inserted correctly, then the chemical sensor or pumps may have malfunctioned; contact your local Hobart Service office.

To manually prime the chemical pumps, follow the steps below.

1. Power on dishwasher. Display shows ready screen when fill cycle has completed.
2. Press the Menu button located in the upper right corner of display.
3. With Manager Menu highlighted, press the Enter button. The Enter PIN screen will be displayed.
4. The default manager code is 1001. Use the arrow buttons to change the value and then press the Enter button to select the value and toggle to the next digit until the code is entered.
5. After pressing Enter for the last digit, use the down arrow and scroll until Chemical Menu is outlined. Press Enter.
6. Scroll down until Prime Chemical Pumps is outlined. Press Enter.
7. Prime Detergent Pump is displayed. Use the arrow keys to select Yes or No to prime the detergent pump. Press Enter button.
8. Prime Rinse Aid Pump is displayed. Use the arrow keys to select Yes or No to prime the rinse aid pump. Press Enter button.
9. Priming Sanitizer Pump is displayed. Use the arrow keys to select Yes or No to prime the sanitizer pump. Press Enter button.
10. Filling Chemical Hoses is displayed and the appropriate chemical pump(s) set to Yes in Steps 7 - 9 will prime for 20 seconds and the display will revert back to the Chemical Menu.
11. To exit the menu, use the Up and Down Arrows to scroll thru the parameters until Back is outlined and press the Enter button. Repeat this procedure until the Ready screen is displayed.

# PROGRAMMING

## MANAGER MENU

The LXn / LXGn dish machines allow customization options for machine operation. To activate or change these features, enter the Manager Menu using the following procedure.

1. Power on dishwasher. Display shows ready screen when fill cycle has completed.
2. Press the Menu button in the upper right corner of display.
3. With Manager Menu highlighted, press the Enter button. The Enter PIN screen will be displayed.
4. The default manager code is 1001. Use the arrow buttons to change the value and then press the Enter button to select the value and toggle to the next digit until the code is entered.
5. Use the Up and Down Arrows to toggle thru the Manager Menu.
  - a. Once the desired selection is outlined, press the Enter button.
  - b. For selections that are editable, use the Up and Down arrows to change the value.
  - c. Once the required value is displayed, press the Enter button to save the selection.
6. To exit the programming, use the Up and Down arrows to scroll thru the parameters until Back is outlined and press the Enter button. Repeat this procedure until the Ready screen is displayed.

## MANAGER MENU PARAMETERS

Parameter Name	Description	Possible Values	Default Value
<b>MACHINE SETTINGS</b>			
Language	Sets the language for machine display.	English, French, Spanish, etc.	English
Date	Sets the current day, month, year.		
Time	Selects the current time (hours & minutes). Time can also be updated to 24h format.		
Temperature Units	Sets the temperature displays to Fahrenheit or Celsius.	Fahrenheit or Celsius	Fahrenheit
<b>DISPLAY SETTINGS</b>			
Brightness	Increases or decreases the brightness of the machine display screen.		
<b>MACHINE ALARM</b>			
Machine Alarm	Enables or disables an end of cycle audible alarm.	Enable or Disable	Enable

Parameter Name	Description	Possible Values	Default Value
<b>CHEMICAL MENU</b>			
Rinse Aid Concentration	Sets the rinse aid chemical concentration level.	0.0 ml/L - 2.0 ml/L	1.1 ml/L
Detergent Concentration	Sets the detergent chemical concentration level.	0.0 ml/L - 9.5 ml/L	2.5 ml/L
Prime Chemical Pumps	Refer to Chemical Pump Priming, page 11.		
Sanitizer Dosing	Sets the sanitizer chemical concentration level.	0% - 100%	11%
Delime Concentration	Sets the delime chemical concentration level based on % delimer in solution with sump & booster tank water.	Low (1.25%) Medium (1.89%) High (3.77%)	Low (1.25%)
Chemical Notification/ Lockout	If no chemical is detected, sets the display to notification or locks the machine out.	Notification, Detergent Lockout, Sanitizer Lockout, Detergent & Sanitizer Lockout	Notification
<b>WATER HARDNESS</b>			
Water Hardness	Sets the water supply water hardness.	0 gr/gal - 250 gr/gal	7 gr/gal
<b>MACHINE CYCLE LOG</b>			
Show Cycle Information	Displays date and time of previous cycles.		
<b>AUTOMATIC START *</b>			
Enable/Disable	Allows the automatic start feature to be disabled or enabled.	Enable or Disable	Disable
Settings	Sets the automatic start day of week and time. If feature is enabled, machine will automatically power on and fill at day and time set.		
<b>WiFi</b>			
Enable/Disable	Enables or disables WiFi connectivity.	Enable or Disable	Disable
Status	Displays the current WiFi connection status of the machine.		
Connection Assistant	Guided connection to WiFi network.	<ul style="list-style-type: none"> <li>• Search Network</li> <li>• WPS</li> <li>• Add Network</li> </ul>	
Access Code	Generates an access code that can be used to pair the machine to the SmartConnect App.		
Connection Test	Tests the WiFi connection with the machine to confirm WiFi connectivity.		
Manual Installation	Allows connectivity to a hidden network.	<ul style="list-style-type: none"> <li>• Search Network</li> <li>• WPS</li> <li>• Add Network</li> </ul>	

Parameter Name	Description	Possible Values	Default Value
<b>DELAY WASH PROGRAM</b>			
Enable/Disable	Enables or disables wash tank temperature delay. If enabled, wash cycle will be delayed until minimum wash temperature is reached. Display will show 'Heating' until temperature is reached.	Enable or Disable	Disable
<b>RINSE TEMPERATURE ALERT</b>			
Disabled	Disables low rinse temperature alert.		
Notification	Enables low rinse temperature alert. After set number of cycles (default 3) below minimum rinse temperature requirement, display will show rinse temperature alert warning. Machine will continue to function as normal.		
Lockout Machine	Enables low rinse temperature lockout. After set number of cycles (default 3) below minimum rinse temperature requirement, display will show rinse temperature alert warning. Machine will lockout and unit will be inoperable.		
Repeat Cycle	After set number of cycles (default 3) below minimum rinse temperature requirement, machine will automatically repeat wash and rinse cycles.		
<b>STRAINER MONITORING</b>			
Strainer Monitoring	Detects if sump strainer is in place through error or warning. If set to Error Message, unit is inoperable until strainer is properly installed. If set to Warning, press Enter to continue with normal machine operation.	Error Message Or Warning	Error Message

\* **NOTE:** When enabling Automatic Start feature, machine will power on and fill while unattended. Prior to using this feature, ensure all machine panels and components are in place and that all facility connections to the machine (i.e.: water, drain, electric) are in working order.

## HOBART SMARTCONNECT APP

Thanks to built-in WiFi, you can connect your LXn / LXGn commercial dishwasher to our easy-to-use smart phone app. With the free Hobart SmartConnect app, you can create better procedures and enhance performance in the dishroom by monitoring sanitization and analyzing usage, consumption and costs. **NOTE:** For 240-volt supplies, contact Hobart Service to adjust the power value in the service settings for accurate energy consumption values.

### Getting Connected

#### Registering an Account

1. Open the app and tap on **Register**.
2. Enter your email and tap **Send Verification Code**. Then enter the code you receive to your email.
3. Provide the remaining information, including a password.
4. Tap **Create**.
5. Read and agree to the End User License Agreement and Privacy Policy. Tap **Confirm** when you are done.

You can now use the app to connect to WiFi and pair your machine.

#### Connecting the LXn / LXGn to WiFi from the SmartConnect App

1. Tap on the menu icon, then tap on the **WiFi** button.
2. Tap on **Connect** for Hobart.
3. Follow the guide in the app to prepare the machine for connection.
4. Tap on **Confirm Instructions** and tap **Yes** if the machine is ready for connection.
5. The machine will generate a code; enter this into the app and it will connect with the machine.
6. A list of available networks will be displayed. Select the network you want to connect with and enter the network password if necessary.
7. When the WiFi connection is successful, the machine will indicate success and display an access code to pair with the app.
8. From the main screen of the app, tap on the Menu icon, then tap on the **+** button and enter the access code to pair.

#### Connecting the LXn / LXGn to WiFi from the Machine

1. Tap on the menu icon, select **Manager Menu** and enter your pin.
2. Scroll and tap the **Enter** button to select **WiFi**.
3. Scroll and select **Connection Assistant**.
4. Scroll and select **Search Network**.
5. Scroll and select the available network you wish to connect to.
6. Enter the password for your network, then tap **OK**.
7. The machine will connect to your network, transfer data to the SmartConnect Cloud and display a connection code for the app.

If your machine won't connect to the WiFi, go to our FAQs at [www.itwfoodequipment.com/smartconnect365/help](http://www.itwfoodequipment.com/smartconnect365/help) to troubleshoot your connection.

## To Pair and Add your LXn / LXGn to the App

Before pairing, make sure your machine is connected to WiFi using the previous steps. To pair your Hobart LXn / LXGn to the SmartConnect App:

### From the Dishmachine

1. Tap the menu icon to enter the manager menu on your dishmachine.
2. Select **Manager Menu** and enter your pin.
3. Scroll and select **WiFi**.
4. Scroll and select **Access Code**.
5. An activation code will be generated and displayed. This code is valid for 48 hours.

### From the App

1. Tap on the **+** button at the bottom of the machine list.
2. Enter the activation code found in the manager menu of the machine's touchscreen, then tap **Submit**.
3. Select your service provider from the drop-down menu.
4. Tap **Finish**.

Your machine will now appear in the machine list on the home screen of the app.

For more information about SmartConnect, including usage instructions, troubleshooting for your WiFi connection and other general questions, visit the SmartConnect Help and FAQ guide at [www.itwfoodequipment.com/smartconnect365/help](http://www.itwfoodequipment.com/smartconnect365/help).

# OPERATION

## PREPARATION

Place the strainer pan and the strainer basket in their proper positions (Fig. 4).



Fig. 4

**NOTE:** When installing the strainer basket, ensure the basket is in the 'locked' position (Fig. 5).

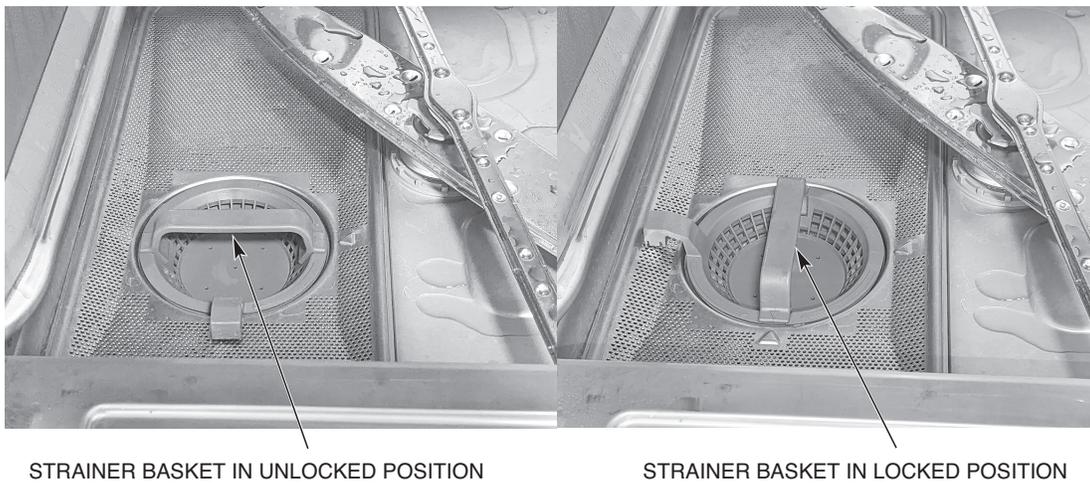


Fig. 5

Ensure both upper and lower wash and rinse arms are properly installed. **NOTE:** The LXnC and LXnH models have rinse arms that screw in by turning the thumb nut (Fig. 6). The LXnR, LXGnR and LXGnPR models have rinse arms with quick release buttons located on the center hub (Fig. 7). When installed properly, all arms should turn freely and continue turning for a few seconds after being rotated by hand.

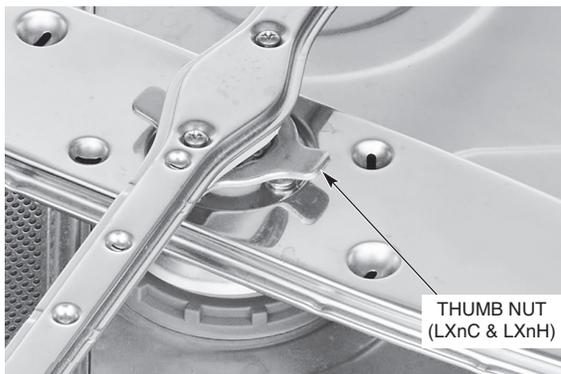


Fig. 6

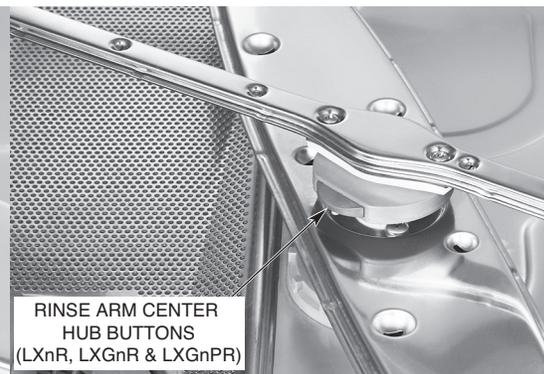


Fig. 7

All LXn / LXGn models are equipped with built in chemical pumps. Ensure detergent, rinse aid and sanitizer (if equipped) chemical bottles have sufficient chemicals and replace as required. Use only commercial-type detergents, as prescribed by your chemical professional. Closely follow supplier's instructions.

Close the door. Press the PLAY/POWER button to turn the power on (Fig. 8). If the machine's door is closed and no water is in the tank, the fill cycle will begin automatically. If water is detected in the tank, the machine will check the temperature of the water and if the water is cold, the machine will drain the water out prior to filling with fresh water. If the water is hot, the machine will proceed to heat the water to the wash tank temperature set point. During the fill cycle, the word Filling is displayed along with an image of a bucket filling to show progress (Fig. 9).

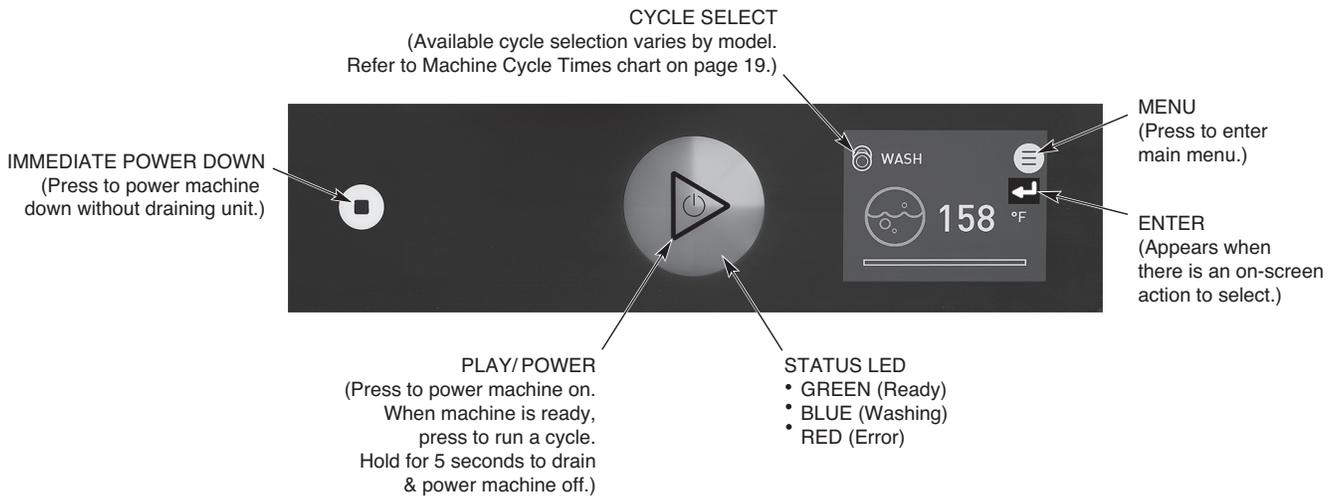


Fig. 8

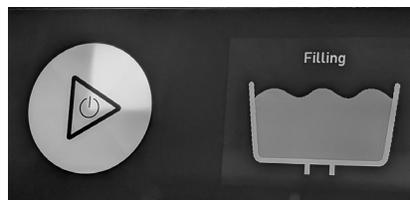


Fig. 9

**NOTE:** Depending on machine model, it may take up to 10-20 minutes to complete the fill process.

When washing or in idle mode, the readout displays the wash temperature. During the rinse cycle, the rinse icon and temperature are displayed. Select the wash cycle per the below machine cycle times chart by pressing the CYCLE SELECT button. Each wash cycle is followed by an automatic rinse. When the rinse cycle is complete and the rinse icon turns off, the door can be opened.

For LXnR and LXGnR models, the door must remain closed until the condensing cycle is complete. A condensing progress bar is displayed during the condensing cycle. Failure to follow these instructions will result in excess steam and water vapor in the dish room.

Machine Cycle Times							
Model	Cycle Selection	Wash (seconds)	Wash Dwell (seconds)	Rinse (seconds)	Rinse Dwell (seconds)	Puri-Rinse (seconds)	Ventless (seconds)
LXnC		85	10	8	N/A	N/A	N/A
		215	10	8	N/A	N/A	N/A
LXnH		85 *	10	8	5	N/A	N/A
		215 *	10	8	5	N/A	N/A
LXnR		56 *	10	8	5	N/A	40
		85 *	10	8	5	N/A	40
		215 *	10	8	5	N/A	40
LXGnR		56 *	10	8	5	N/A	40
		85 *	10	8	5	N/A	40
LXGnPR		56	10	8	15	7	N/A
		85	10	8	15	7	N/A

\* Maximum wash time may vary depending on supply voltage and incoming water temperature for 70°F rise on LXnH, LXnR and LXGnR models.

## DISHWASHING

Scrape the dishes to remove large particles of food and debris. Never use steel wool on ware to be loaded into the dishwasher.

Arrange the dishes in a rack. Do not stack dishes one on top of another, as water must have free access to all sides of every dish. Stand plates and dishes up edgewise in a peg-type rack (Fig. 10). Cups, glasses and bowls should be inverted in an open-type or compartment-type rack (Fig. 10). Silverware and other small pieces may be scattered loosely over the bottom of a flat bottom rack.

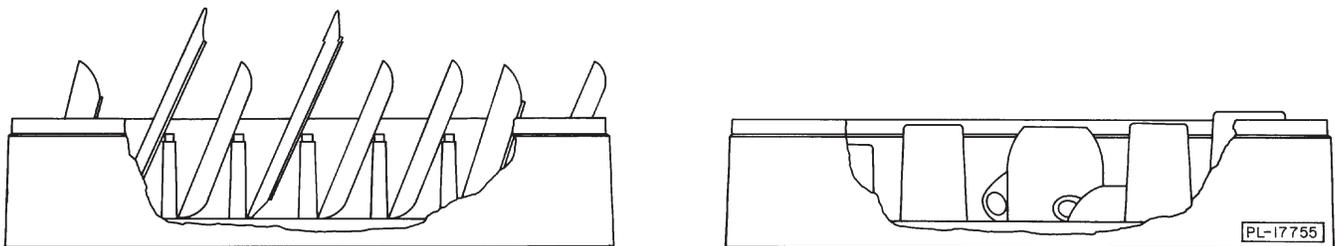


Fig. 10

Do not allow foreign objects to enter the unit, especially metallic contaminants.

After filling a rack, open the door, slide rack into the dishwasher, close the door and press the PLAY button.

Throughout the wash cycle, the tank water temperature is displayed on the front panel display, along with the word WASH and an icon. During the rinse cycle, the rinse water temperature is displayed, along with the word RINSE and an icon. When the rinse cycle is completed, the readout displays the tank water temperature.

On LXnR and LXGnR models, a progress bar displays the remaining cycle time during the condense cycle.

When the display reads CYCLE COMPLETED, open the door, remove the clean dishes, slide in another rack, close the door and press the PLAY button.

This dish machine is not meant to be opened until a cycle has completed, but if a dish must be added after the wash cycle has started, open the door slowly, until the pump stops. Wait 10 seconds to allow the wash arms to coast down and to avoid water splashing before opening the door fully.

Operating temperatures for all models are as follows:

Sanitizing Mode	Minimum Wash Temperature	Minimum Rinse Temperature
Hot Water	150°F (66°C)	180°F (82°C)
Chemical	120°F (49°C)	120°F (49°C)

**For LXnR and LXGnR models only** – If excessive amounts of steam or water vapor exit the machine after the cycle is complete and the door is opened, incoming cold water temperature may be too high. Contact Hobart Service to adjust the rinse and condense times. Increasing cycle time will increase water consumption and decrease the racks per hour, but should reduce the steam and water vapor entering the dish room.

To power the machine down, press the PLAY/POWER button for 5 seconds (until progress bar is complete). The machine will automatically drain.

**For LXnC and LXGnPR models only** – If the detergent supply is empty after 3 consecutive cycles, “Detergent is empty. Refill detergent.” will display along with error code “Error 074”. Replace the detergent supply and press ENTER to clear the error and prime the pump. The pump will prime for 20 seconds.

If the rinse aid supply is empty after 3 consecutive cycles, “Rinse Aid is empty. Refill rinse aid.” will display along with error code “Error 075”. Replace the rinse aid supply and press ENTER to clear the error and prime the pump. The pump will prime for 20 seconds.

If the sanitizer supply is empty after 3 consecutive cycles, “Sanitizer is empty. Refill sanitizer.” will display along with error code “Error 076”. Replace the sanitizer supply and press ENTER to clear the error and prime the pump. The pump will prime for 20 seconds.

**For LXnH, LXnR and LXGnR models only** – If the detergent supply is empty after 3 consecutive cycles, “Detergent is empty. Refill detergent.” will display along with error code “Error 074”. Replace the detergent supply and press ENTER to clear the error and prime the pump. The pump will prime for 20 seconds.

If the rinse aid supply is empty after 3 consecutive cycles, “Rinse Aid is empty. Refill rinse aid.” will display along with error code “Error 075”. Replace the rinse aid supply and press ENTER to clear the error and prime the pump. The pump will prime for 20 seconds.

# CLEANING

The machine must be thoroughly cleaned at the end of each working shift or at least daily. Never use steel wool to clean dish machine surfaces. Use only products formulated to be safe on stainless steel.

1. Press the PLAY/POWER button for 5 seconds (until progress bar is complete) to power the machine down. The machine will automatically drain.
2. Once the display has powered off, open the machine door.
3. Thoroughly cleanse and flush the dishwasher interior. Remove remaining soil with a soft cloth or brush and mild cleanser. Rinse again.
4. On LXnC and LXnH models, remove the upper and lower wash and rinse arms by unscrewing the thumb nuts (page 17, Fig. 6). On LXnR, LXGnR and LXGnPR models, remove the upper and lower wash and rinse arms by pressing in on the buttons located on the sides of the center hub and pull off (page 17, Fig. 7). Thoroughly wash and rinse the arms in a sink and ensure all debris is removed from the wash and rinse arm nozzles.

**NOTICE** Do not bang wash arms or rinse arms to clean.

5. Remove and empty the strainer basket and strainer pan. Wash and rinse thoroughly in a sink.
6. Clean tank bottom. Do not allow food soil to accumulate on the tank bottom or to enter the drain.
7. Reinstall the strainer pan and strainer basket. Ensure the strainer basket is in the locked position as shown on page 17.
8. Reinstall the lower wash arm by pushing it down on the shaft. On LXnC and LXnH models, place the lower rinse arm on the shaft and securely tighten the thumb nut. On LXnR, LXGnR and LXGnPR models, press in on the buttons located on the sides of the center hub of the rinse arm and place the rinse arm on the shaft and release the buttons. Spin the arms to ensure they spin freely. Repeat this procedure with the upper wash and rinse arms.
9. Use a soft, damp cloth or sponge and mild cleanser to clean the display and exterior of the machine. DO NOT use abrasive or harsh cleaners, scouring pads or steel wool.
10. Leave the door ajar overnight to allow the interior to air out and dry. The door design allows for the door to remain partially open and can be used to vent the machine at the end of the day.

## **DOS AND DON'TS FOR YOUR NEW HOBART WAREWASHER**

DO assure proper water hardness (3 grains or less per gallon is recommended).

DO pre-scrub dishes thoroughly.

DO use only detergents recommended by your chemical professional.

DO at the end of the day, thoroughly cleanse the machine, rinse and dry (leave door open).

DO closely follow your chemical professional's prescribed deliming schedule.

DO use only products formulated to be safe on stainless steel.

DO NOT use detergents formulated for residential dishwashers.

DO NOT allow food soil to accumulate on the tank bottom.

DO NOT exceed chemical manufacturer's recommended concentrations for detergent, sanitizer, rinse aid or lime scale remover.

DO NOT use steel wool to clean ware or warewasher surfaces.

DO NOT allow foreign objects to enter the unit, especially metallic contaminants such as paper clips, retainers, etc.

**NOTE:** Failure to follow use, care and maintenance instructions may void your Hobart warewasher warranty.

# MAINTENANCE

Maintenance and regular care is important to maintain optimal results with your Hobart warewasher.

**⚠ WARNING** Disconnect the electrical power to the machine (both dishwasher and booster if applicable) and follow lockout / tagout procedures. Be sure all circuits are disconnected.

## WASH ARMS

Upper and lower wash and rinse arms should turn freely and continue turning for a few seconds after being rotated by hand. Remove any obstructions causing improper operation.

If either the strainer pan or the strainer basket is not properly in place, obstructions (such as food particles or bones) may clog the wash arm nozzles. The wash arms are easily removed for cleaning.

To remove the lower wash arm on the LXnC and LXnH models, unscrew the thumb nut and lift the rinse arm off (page 17, Fig. 6). The wash arm can be lifted off once the rinse arm is removed. The upper wash and rinse arms are removed by unscrewing the thumb nut and lowering both arms together. Be careful not to drop the arms.

To remove the lower wash arm on the LXnR, LXGnR and LXGnPR models, press in on the buttons located on the sides of the center hub and lift the rinse arm off (page 17, Fig. 7). The wash arm can be lifted off once the rinse arm is removed. The upper wash and rinse arms are removed by pressing in on the buttons located on the sides of the center hub and lowering both arms together. Be careful not to drop the arms.

## MOTORS

The wash pump motor, rinse pump motor, drain pump motor and fan motor (LXnR and LXGnR models only) are equipped with permanently lubricated bearings and require no lubrication maintenance.

## CHEMICAL PUMPS

Inspect chemical tubes every 3 months and replace as required. Also inspect chemical bottle caps and standpipes to ensure they are not cracked or worn.

When using rinse aid, inspect the suction strainer located at the end of the chemical standpipe every 3 months to ensure it is not clogged.

## DELIME INSTRUCTIONS

**⚠ 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 chemical-sanitizing machines. Mixing may cause hazardous gas to form. This entire procedure must be followed step by step for safe and satisfactory results.

**NOTICE** Do not allow the deliming agent to remain in the machine longer than recommended by the deliming agent manufacturer.

DELIME THE DISHWASHER ON A REGULAR BASIS AS REQUIRED. The regularity will depend on mineral content of the supply water and machine usage. Deliming should be done when you can see clear signs of lime deposits (a white, chalky substance) on the inside walls and on the wash arms. All LXn / LXGn models are equipped with an automatic delime cycle reminder. It is recommended that deliming be done when Delime Required. Start Delime Cycle? is lit. LXnR and LXGnR models are equipped with an internal delime pump which will automatically pump the required amount of deliming agent into the unit.

If deliming is necessary, a deliming agent (such as Lime-A-Way® or LSR®) should be used for best results.

## Manual Delime Process (Models LXnC, LXnH and LXGnPR)

Machine will prompt operator when to delime based on water hardness and machine usage. When prompted, display will read 'Delime Required. Start Delime Cycle?'. If ready to delime, press either arrow button to highlight Yes and press the Enter button. Press Enter button on No to delime machine later. If Yes is selected, proceed to Step 3 below. Start process at Step 1 if initiating manual delime process without the prompt. If No is selected, the machine will continue to notify the operator at each start-up and power down until the delime cycle is completed.

1. Press the Menu button and scroll down until Delime Program is highlighted. Press the Enter button.
2. Display will prompt 'Start Delime Cycle?'. Press either arrow button to highlight Yes and press the Enter button.
3. Display will prompt 'Please clean strainer'. Open machine door and remove dish rack, strainer basket and strainer pan. Clean basket and pan in a sink with a mild detergent and rinse.
4. Replace strainer pan and strainer basket in machine and ensure basket is in the locked position (page 17, Fig. 5).
5. Close machine door and press the Enter button. Machine will drain. Once machine has drained, the display will prompt 'Please add delime'. Open machine door and pour required amount of delime chemical into wash tank according to chemical suppliers' recommendation for 7.9-gallon wash tank and close door.
6. Once door is closed, press the Enter button. Tank will fill with fresh water. Once filled, the unit will begin a 10-minute wash cycle. Note: Enter button will not appear on display until door is opened and closed.
7. After 10-minute wash cycle, machine will drain and re-fill with fresh water. Once filled, the unit will begin a 1-minute wash cycle to flush any remaining delime chemical residue.
8. After 1-minute wash cycle, the machine will drain and power down.

**NOTE:** During delime cycle, 'DELIME' will appear on the display when not being prompted for user interface.

## Auto Delime Process (Models LXnR and LXGnR)

Machine will prompt operator when to delime based on water hardness and machine usage. When prompted, display will read 'Delime Required. Start Delime Cycle?'. If ready to delime, press either arrow button to highlight Yes and press the Enter button. Press the Enter button with No highlighted to delime machine later. If Yes is selected, proceed to Step 3 below. Start process at Step 1 if initiating auto delime process without the prompt. If No is selected, the machine will continue to notify the operator at each start-up and power down until the delime cycle is completed.

**NOTE: Machine will automatically pump delime solution into dish machine during auto delime cycle. Ensure sufficient chemical is present in bottle and standpipe is fully inserted into bottle.**

1. Press the Menu button and scroll down until the Delime Program is highlighted. Press the Enter button.
2. Display will prompt 'Start Delime Cycle?'. Press either arrow button to highlight Yes and press the Enter button.
3. Display will prompt 'Please clean strainer'. Open machine door and remove dish rack, strainer basket and strainer pan. Clean basket and pan in a sink with a mild detergent and rinse.
4. Replace strainer pan and strainer basket in machine and ensure basket is in the locked position (page 17, Fig. 5).
5. Close machine door and press the Enter button. DELIME will be displayed and machine will drain. Once machine has drained, machine will begin to re-fill with fresh water and automatically add delime solution as the unit fills.

6. Once unit has filled and delime solution has been added, the unit will begin a 10-minute wash cycle.
7. After 10-minute wash cycle, machine will drain and re-fill with fresh water. Once filled, the unit will begin a 1-minute wash cycle to flush any remaining delime chemical residue.
8. After 1-minute wash cycle, the machine will drain and power down.

# TROUBLESHOOTING

## ERROR CODE CHART WITH POSSIBLE SOLUTIONS

Error No.	Text On Screen	Error Description	Troubleshooting
001	Booster temperature error.	The booster temperature is 239°F/115°C or greater.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
002	Booster temperature error.	The booster temperature is 32°F/0°C or lower.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
003	Booster temperature not reached during fill cycle.	During the fill cycle, the booster temperature did not meet the setpoint within the predetermined time.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
004	Booster temperature not reached during wash cycle.	During the wash cycle, the booster temperature did not meet the setpoint within the predetermined time.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
006	Wash temperature error.	The wash tank temperature is 239°F/115°C or greater.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
007	Wash temperature error.	The wash tank temperature is 32°F/0°C or lower.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
008	Wash tank temperature not reached during fill cycle.	During the fill cycle, the wash tank temperature did not meet the setpoint within the predetermined time.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
009	Wash tank temperature not reached during wash cycle.	During the wash cycle, the wash tank temperature did not meet the setpoint within the predetermined time.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
014	Booster pressure sensor failure.	The maximum booster water level has been exceeded. The machine will not run.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
015	Booster pressure sensor failure.	The minimum booster water level has not been reached. The machine will not run.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
016	Wash tank pressure sensor failure.	The maximum wash tank water level has been exceeded. The machine will not run.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.

<b>Error No.</b>	<b>Text On Screen</b>	<b>Error Description</b>	<b>Troubleshooting</b>
017	Wash tank pressure sensor failure.	The minimum wash tank water level has not been reached. The machine will not run.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
018	Wash tank water level is too high.	Wash tank water level is above the upper limit.	Press the ENTER button if displayed to clear the error. If the ENTER button does not display, press and hold the power button for 5 seconds. Machine will drain and power off. If the error persists, contact Hobart Service.
019	Tank strainer blocked. Remove strainer, clean and put back in place.	Tank strainer pan is blocked.	Remove, clean and replace strainer pan. Press the ENTER button to clear the error. The machine will drain and power down if the water level is low. If the water level has returned to normal, the machine will power off, but not drain. Power machine on to continue operation.
020	Wash tank pressure sensor error. Drain and restart machine.	The wash tank water level did not increase by the anticipated amount after being filled by the rinse cycle.	Press the ENTER button to clear the error. The machine will drain and clear the error. Ensure tank is clean. If the error persists, contact Hobart Service.
021	Drain hose is clogged. Clean drain hose and drain machine again.	Significant water remains in wash tank after drain cycle.	Ensure power to machine is off and wash water has cooled. Verify bottom of wash tank is free of debris. Clean the drain hose and drain the machine. Ensure drain hose is not kinked and installed properly. If error remains on screen, press and hold the power button for 5 seconds to clear the error. Machine will drain and power down.
022	Drain hose is clogged. Clean drain hose.	During wash cycle, water level not maintained at normal level.	Ensure power to machine is off and wash water has cooled. Verify bottom of wash tank is free of debris. Clean the drain hose and drain the machine. Ensure drain hose is not kinked and installed properly. If error remains on screen, press the ENTER button to clear the error.
029	Program interrupted. Close door.	Door is opened during machine operation.	Close the door and ensure door is fully seated. The current operation resumes. If the error persists, contact Hobart Service.
032	Fill error, inspect incoming water line.	The booster water level did not reach the proper level within the set amount of time.	Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 15 - 65 psi. Press the ENTER button to clear the error. If the error persists, contact Hobart Service.

<b>Error No.</b>	<b>Text On Screen</b>	<b>Error Description</b>	<b>Troubleshooting</b>
033	Fill valve error.	The fill valve has been active for more than the maximum allowed fill time.	Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 15 - 65 psi. Press the ENTER button to clear the error. If the error persists, turn water supply off and contact Hobart Service.
035	Ensure tank strainer is locked in place.	The internal scrap basket is not inserted, or it is not in the locked position.	Ensure scrap basket is properly installed and in the locked position. The arrow on the scrap basket should line up with the arrow on the strainer pan. If installed properly, the error will clear automatically. (Refer to page 17, Fig. 6.)
038	Incoming power to machine is too high. Machine has powered down.	The incoming voltage is higher than the maximum required machine voltage.	The incoming voltage must be at or below the required machine voltage (see machine data plate). Turn circuit breaker supply off and ensure unit is connected with proper voltage supply. Press Enter to clear error.
039	Fill cycle interrupted. Close door.	Door is opened during the fill cycle.	Close the door and ensure door is fully seated. The fill cycle resumes. If the error persists, contact Hobart Service.
049	Communication between the controls has been interrupted.	Interruption of communication between control board and touchscreen display.	Communication between the controls should be automatically restored. If the problem persists, contact Hobart Service.
052	Drain hose is clogged.	Wash tank water level is above the upper limit.	Ensure power to machine is off and wash water has cooled. Verify bottom of wash tank is free of debris. Clean the drain hose and drain the machine. Ensure drain hose is not kinked and installed properly. If error remains on screen, press and hold the power button for 5 seconds to clear the error. Machine will drain and power down.
057	Wash tank is filling. Cycle will begin when water is replenished.	Wash tank water level is low at start of wash cycle.	Machine automatically fills while error is displayed. Once proper water level is reached, wash cycle will begin.
059	Cloud connection not available.	WiFi is connected, data cannot be sent to the cloud.	Tap on HELP in Smart Connect app and refer to the troubleshooting in the FAQ's for guidance.
070	Minimum wash temperature not reached.	The wash temperature did not reach the minimum set point requirement.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
071	Minimum rinse temperature not reached.	The rinse temperature did not reach the minimum set point requirement.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.

<b>Error No.</b>	<b>Text On Screen</b>	<b>Error Description</b>	<b>Troubleshooting</b>
074	Detergent empty. Refill detergent.	The detergent has not been sensed for the set number of consecutive cycles.	Ensure detergent is present in bottle and that cap & tube are properly secured to bottle. Replace detergent bottle if empty. Press the ENTER button to prime the detergent pump. Repeat as required.
075	Rinse aid empty. Refill rinse aid.	The rinse aid has not been sensed for the set number of consecutive cycles.	Ensure rinse aid is present in bottle and that cap & tube are properly secured to bottle. Replace rinse aid bottle if empty. Press the ENTER button to prime the rinse aid pump. Repeat as required.
076	Sanitizer empty. Refill sanitizer.	The sanitizer has not been sensed for the set number of consecutive cycles.	Ensure sanitizer is present in bottle and that cap & tube are properly secured to bottle. Replace sanitizer bottle if empty. Press the ENTER button to prime the sanitizer pump. Repeat as required.
077	Detergent empty. Machine locked.	Detergent has not been sensed for three consecutive cycles.. The machine will be locked out until detergent is replaced.	Ensure detergent is present in bottle and that cap & tube are properly secured to bottle. Replace detergent bottle if empty. Press the ENTER button to prime the detergent pump. Repeat as required.
079	Sanitizer empty. Machine locked.	Sanitizer has not been sensed for three consecutive cycles. The machine will be locked out until detergent is replaced.	Ensure sanitizer is present in bottle and that cap & tube are properly secured to bottle. Replace sanitizer bottle if empty. Press the ENTER button to prime the sanitizer pump. Repeat as required.
080	Delime required. Run delime cycle.	If delime lockout is enabled, machine will lock out due to delime reminder being ignored 10 times.	Press the ENTER button and run a delime cycle to reset the delime reminder.
081	Final rinse temperature too high.	Final rinse temperature is 239°F/115°C or greater.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
082	Final rinse temperature too low.	Final rinse temperature is 32°F/0°C or lower.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
083	Minimum final rinse temperature not reached.	The final rinse temperature did not reach minimum final rinse temperature after three consecutive cycles.	Press the ENTER button to clear the error. If the error persists, contact Hobart Service.
084	Minimum final rinse temperature not reached. Machine locked.	If final rinse lockout is enabled and the final rinse temperature did not reach minimum final rinse temperature after three consecutive cycles, the machine will lock out.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.

<b>Error No.</b>	<b>Text On Screen</b>	<b>Error Description</b>	<b>Troubleshooting</b>
085	Wash tank overtemp tripped.	Wash tank overtemp has been tripped.	Error cannot be cleared until overtemp has been reset. Contact Hobart Service.
086	Booster overtemp tripped.	Booster overtemp has been tripped.	Error cannot be cleared until overtemp has been reset. Contact Hobart Service.
087	Minimum final rinse temperature not reached after repeating cycle.	The final rinse temperature is less than the set point.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.
088	Wash tank heater contactor error. Contact service.	Wash tank heater remains on while ignoring software command to turn off.	Machine is running a fill and drain cycle to protect the heater. This error is not user serviceable. Turn circuit breaker supply off and contact Hobart Service.
089	Booster heater contactor error. Contact service.	Booster heater remains on while ignoring software command to turn off.	Machine is running a fill and drain cycle to protect the heater. This error is not user serviceable. Turn circuit breaker supply off and contact Hobart Service.
090	Temperature not reached. Drain and restart machine. If necessary contact service technician.	The wash temperature did not reach the minimum set point requirement within time out period.	Press and hold the power button for 5 seconds to clear the error. The machine will drain and power off. If the error persists, contact Hobart Service.

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.

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>
No machine operation (no display).	<ol style="list-style-type: none"> <li>1. Machine OFF - turn machine ON.</li> <li>2. Blown fuse or tripped circuit breaker at power supply.</li> <li>3. Cord not plugged in (corded models only).</li> </ol>
No machine operation (with display).	<ol style="list-style-type: none"> <li>1. Display: "DOOR OPEN" - open and close door. If problem persists, contact your local Hobart Service Office.</li> <li>2. See "Machine will not fill or will not fill high enough".</li> </ol>
Dishes not clean.	<ol style="list-style-type: none"> <li>1. Strainers clogged causing inadequate water supply to pump - clean according to instructions. (See CLEANING.)</li> <li>2. Obstruction in wash arm(s) or wash arms will not turn - clean according to instructions. (See CLEANING.)</li> <li>3. Wash and/or rinse arms will not turn - check that they spin freely.</li> <li>4. Detergent dispenser may be clogged.</li> <li>5. Soil quantity - scrape dishes before cycle.</li> <li>6. Improper rack loading. (See PREPARATION.)</li> <li>7. Low water - check water supply.</li> <li>8. Water temperature too low - note wash temperature on display during WASH; should be above 120°F for chemical sanitizing machines and above 150°F for high temperature machines.</li> <li>9. Incoming water supply turned off.</li> </ol>
Spotting of silverware, glasses or dishes.	<ol style="list-style-type: none"> <li>1. Improperly loaded racks.</li> <li>2. Water temperature too low.</li> <li>3. Improper type or concentration of detergent - contact your chemical representative.</li> <li>4. Hard water - install a water softener; use a rinse agent.</li> <li>5. Insufficient fill - check water supply.</li> </ol>

SYMPTOM	POSSIBLE CAUSE
Chemicals not feeding.	<ol style="list-style-type: none"> <li>1. Low on chemicals - check levels.</li> <li>2. Air leak at feeder hose connections - check insertion of quick connect fittings and clamps at tube to tube connections.</li> <li>3. Tubes kinked - check for smooth bends.</li> </ol>
Food soils remain in dishwasher.	Follow daily cleaning instructions. (See CLEANING.)
Appearance of rust in machine.	<ol style="list-style-type: none"> <li>1. Ensure steel wool is not used to clean machine.</li> <li>2. May be due to high iron content in water supply.</li> </ol>
Unexpected results on dishes.	<ol style="list-style-type: none"> <li>1. Etching - usually caused by any combination of high temperatures, soft water, soft glass, or high alkaline washing solutions.</li> <li>2. Tarnishing - avoid washing silver, silver plates, and pewter in chemical sanitizing machines.</li> <li>3. Pitting - stainless steel may pit with lengthy contact of foods containing salt, fruit juices, vinegar, etc. Wash immediately.</li> <li>4. Black or gray marks - may have been rubbed with aluminum.</li> <li>5. Brown stains - may be due to high iron content in water supply.</li> <li>6. Chipping - improper loading or ware is too delicate.</li> <li>7. Fading of china patterns - usually due to high water temperature and strong detergent. Check that china is dishwasher compatible.</li> <li>8. Wooden ware damage - avoid washing in dishwasher.</li> <li>9. Rust on cast iron - seasoning is lost in dishwasher. Avoid washing in dishwasher.</li> <li>10. Plastic ware distortion - high temperatures. Check plastic ware's instructions.</li> </ol>
Low temperature readings.	<ol style="list-style-type: none"> <li>1. Low water supply temperature - make sure it meets the recommended minimum temperature.</li> <li>2. Rapid cycle use - if incoming water temperature is low and cycle use rate is high, the hot water supply may be insufficient to meet the demand.</li> <li>3. Heavy ware load cools wash water - do not overload racks.</li> <li>4. Booster heater or sump heater set low-contact your local Hobart Service Office.</li> </ol>
Machine will not fill or will not fill high enough.	<ol style="list-style-type: none"> <li>1. Low water pressure - check for clogged hose strainer; ensure the site water pressure meets minimum flow pressures.</li> <li>2. No water flow - main water supply valves may not be working.</li> </ol>
Machine fills too high or leaks from door.	<ol style="list-style-type: none"> <li>1. Machine not level. (see LEVELING.)</li> <li>2. Fill solenoid valve leaking - power the dishwasher OFF; if water continues to flow into the machine, contact your local Hobart Service Office.</li> </ol>
Machine will not drain.	<ol style="list-style-type: none"> <li>1. Drain pipes restricted - check dishwasher drain line for kinks; ensure proper drain rate is allowed from plumbing.</li> <li>2. Power machine OFF. Wait several seconds and then power back ON. Repeat this procedure twice if necessary. If problem persists, contact your local Hobart Service Office.</li> </ol>
Some water occasionally drips out of rinse arms (high temperature dishwashers only).	This is normal due to expansion of water being heated in the booster tank.

# SERVICE

## LXn / LXGn EXPENDABLE PARTS

The below LXn / LXGn dish machine parts are expendable by nature and may not be covered by Hobart Product Warranty. To view the Hobart Product Warranty, refer to <https://www.hobartservice.com/service-plans/hobart-product-warranty>.

Part Number	Description	Qty.	Machine Type
00-443581	USB plug	1	All
00-185112	Standpipe (delime)	1	LXnR, LXGnR
00-185105-00029	Tubing, black, 144"	1	LXnR, LXGnR
00-113156-00001	Clamp (spring action hose)	AR	LXnR, LXGnR
00-949651-00001	Squeeze tube kit, chemical pump (detergent, rinse aid, sanitizer) (Includes hose clamps)	AR	All
00-185105-00002	Tubing, red, 144", 1/4"	1	All
00-185105-00006	Tubing, blue, 144", 1/4"	1	All
00-185105-00004	Tubing, clear, 144", 1/4"	1	LXnC, LXGnPR
00-562915	Kit, replacement chemical cap	1	LXnC, LXGnPR
00-975024	Assembly, suction strainer	AR	All
00-185111-00001	Clamp #2	AR	All
01-515367-00001	Door seal	1	LXnC, LXnH, LXnR
01-515367-00002	Door seal	1	LXGnR, LXGnPR
00-563074-00007	Tubing, clear, 10.75"	2	All
00-315191	Peg rack	AR	All
00-315193	Combination rack	AR	All

Contact your local Hobart-authorized service office for any repairs or adjustments needed on this equipment. Long-term service contracts are available on this and other Hobart products. Call 1-888-4HOBART for Hobart Service 24 hours a day.

