

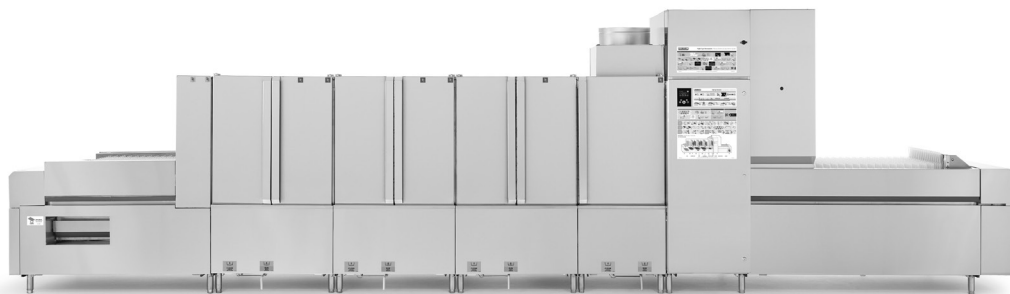
**F U N C I O N A M I E N T O
O P E R A T I O N
M I E N T O**

FT2000-SERIES DISHWASHERS LAVE-VAISSELLE DE LA GAMME FT2000 LAVAVAJILLAS SERIE FT2000

**MODEL
MODÈLE
MODELO**

**FT2000-BAS
FT2000-BAS-BD
FT2000-DWR
FT2000-DWR-BD
FT2000-ADV
FT2000-ADV-BD**

**FT2000S-BAS
FT2000S-BAS-BD
FT2000S-DWR
FT2000S-DWR-BD
FT2000S-ADV
FT2000S-ADV-BD**



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TABLE OF CONTENTS

OPERATION	4
Machine Preparation – Check Before Beginning Operation	4
Curtain Configurations	6
Controls Screen and Display	14
Filling The Tanks	14
Minimum Temperatures	15
Dishwashing	16
Empty Strainer Baskets As Necessary	16
Loading	17
Unloading	17
Conveyor Speed Adjustment	17
Adaptive Washing	17
CLEANING	18
Deliming	21
Delime Notification Setup	21
Delime Procedure	21
Dos and Don'ts for Your New Hobart Dishwasher	22
PROGRAMMING	24
Manager Menu	24
Manager Menu Parameters	24
Hobart SmartConnect App	28
Getting Connected	28
MAINTENANCE	30
Reverse Jog Conveyor	30
Line Strainers	30
Lubrication	30
Motors	30
Conveyor Gearmotor	30
Conveyor Drive Chain	31
Conveyor Take-Up Unit	31
Delime	31
TROUBLESHOOTING	32
Error Code Chart with Possible Solutions	32
Troubleshooting Chart	37
SERVICE	39
FT2000 Expendable Parts	39

Operation and Care Of FT2000 SERIES DISHWASHERS SAVE THESE INSTRUCTIONS

OPERATION

MACHINE PREPARATION – CHECK BEFORE BEGINNING OPERATION

Open the machine doors and make sure all components are in their proper operating positions before beginning operation.

- All strainer pans and scrap baskets must be properly installed in each section (Fig. 1).

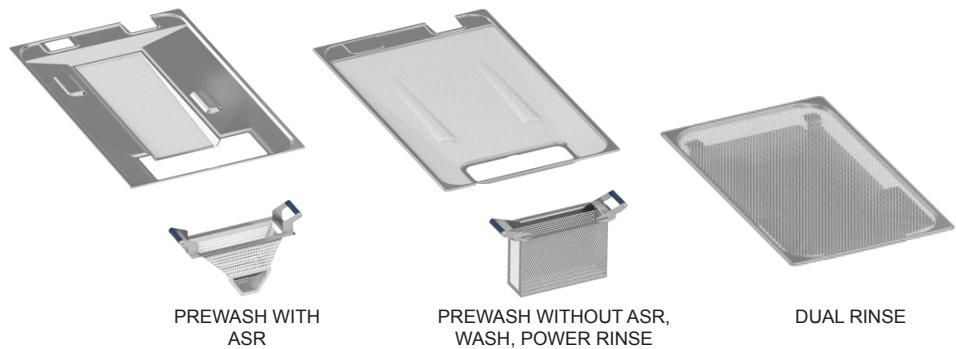


Fig. 1

- The external scrap basket must be properly installed beneath the load of the machine (Fig. 2).



Fig. 2

- All upper and lower wash arms must be properly installed in each section. The wash arm sliders must also be placed in the closed position (Fig. 3). For both upper and lower wash arms, position the sliders to the left for the closed position.

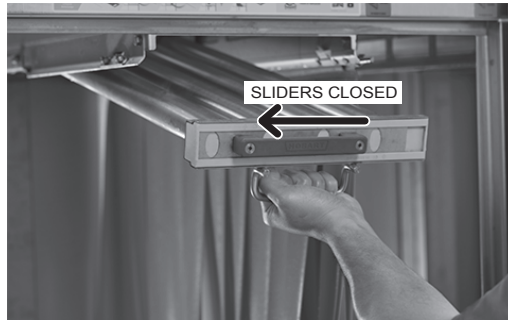


Fig. 3

- The upper and lower dual rinse and final rinse arms must be properly installed (Fig. 4).



Fig. 4

- Ensure both load and unload end panels are properly closed (Figs. 5 & 6).



Fig. 5



Fig. 6

- All curtains must be properly installed as shown on pages 6-13 of this manual.
- All tank drains must be placed in the closed position.

CURTAIN CONFIGURATIONS

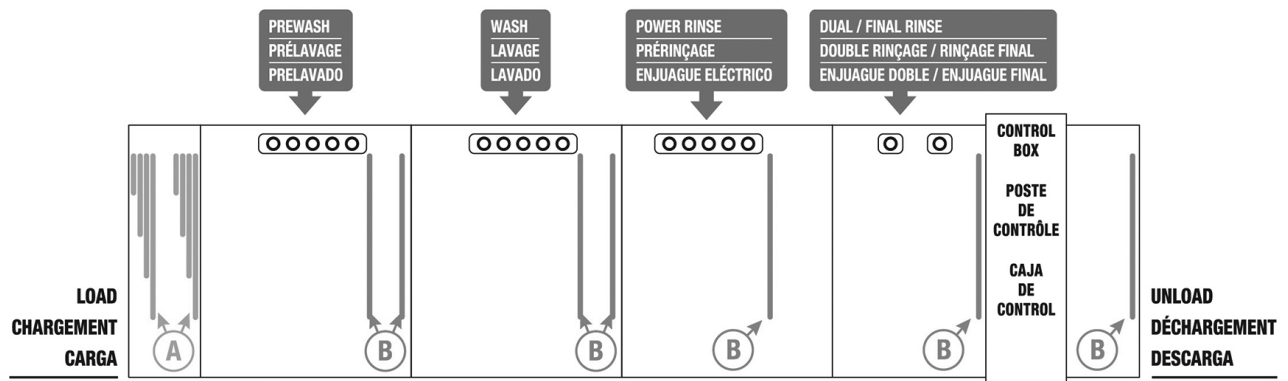
Hang all curtains according to the appropriate curtain diagram and the curtain labels located on the machine at each curtain location. Ensure the curtain color and the letter stamp match the label.

FT2000-BAS, FT2000-DWR and FT2000-ADV

(Standard Height)

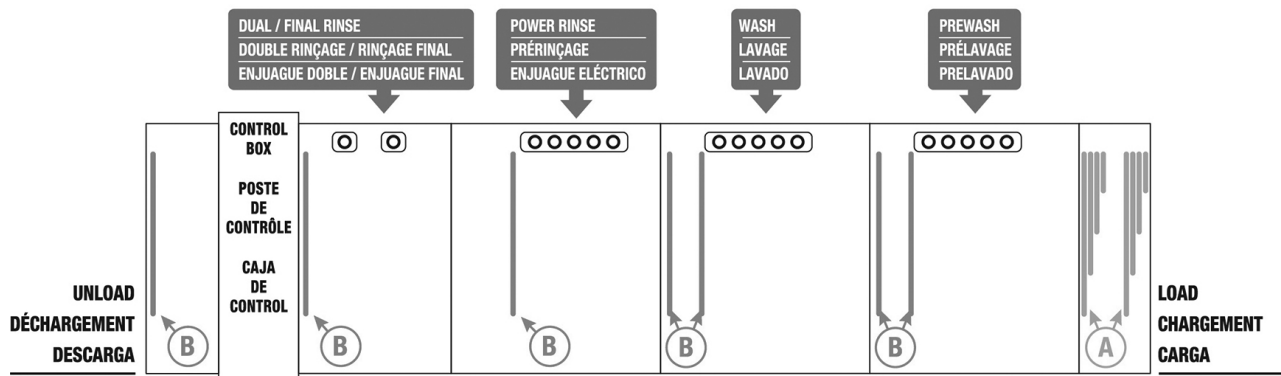
Left to Right

8' CENTER SECTION | ZONE CENTRALE DE 8 pi (2438 mm) | ZONA CENTRAL DE 8'



Right to Left

8' CENTER SECTION | ZONE CENTRALE DE 8 pi (2438 mm) | ZONA CENTRAL DE 8'



LEGEND | LÉGENDE | LEYENDA

A 4-PLY CURTAINS (BLUE)
RIDEAUX A 4 ÉPAISSEURS (BLEU)
CORTINAS DE 4 CAPAS (AZUL)

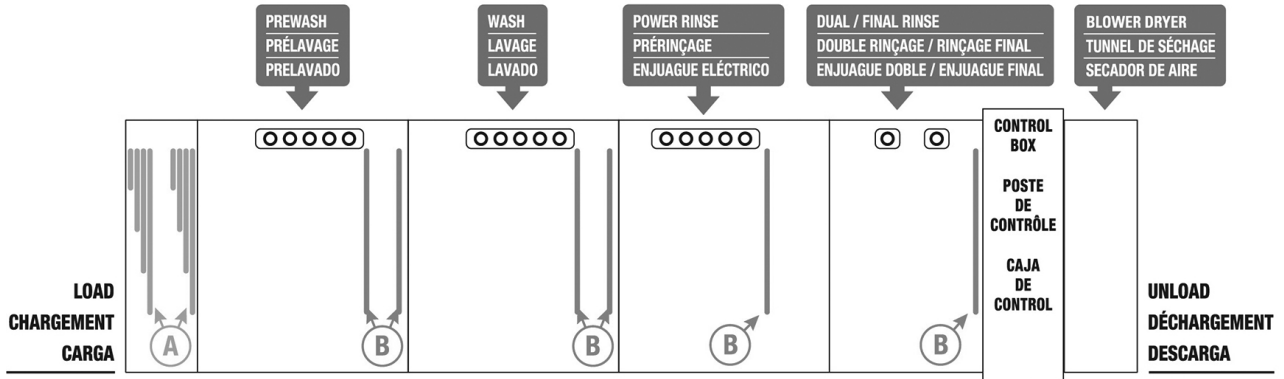
B LONG CURTAINS (GREEN)
RIDEAUX LONGS (VERT)
CORTINAS GRANDES (VERDE)

C SHORT CURTAINS (YELLOW)
RIDEAUX COURT (JAUNE)
CORTINAS CORTAS (AMARILLO)

FT2000-BAS, FT2000-DWR and FT2000-ADV
(With Blower Dryer, Standard Height)

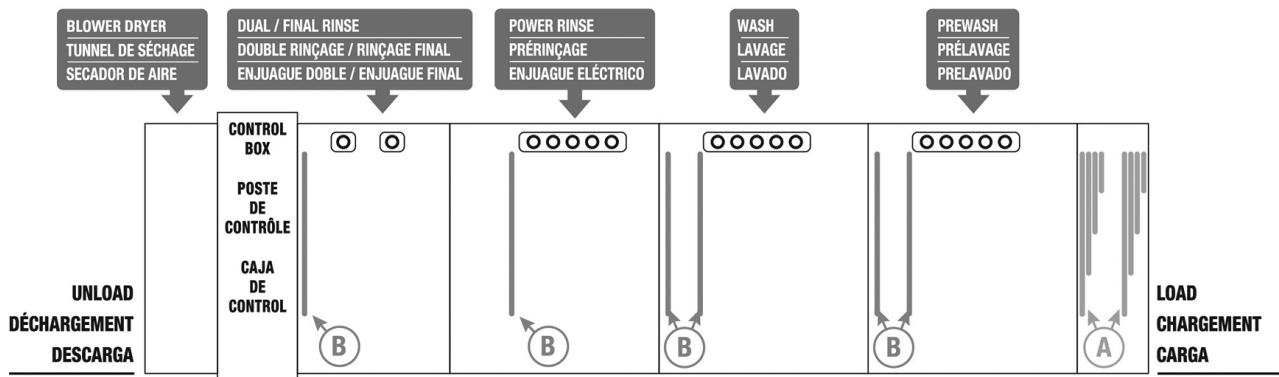
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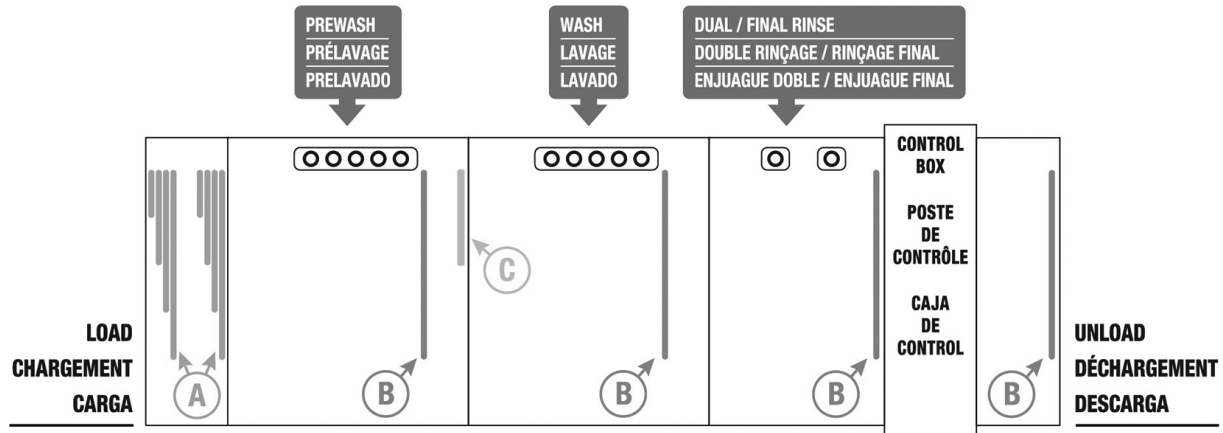
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CORTINAS CORTAS (AMARILLO)

FT2000S-BAS, FT2000S-DWR and FT2000S-ADV
(Standard Height)

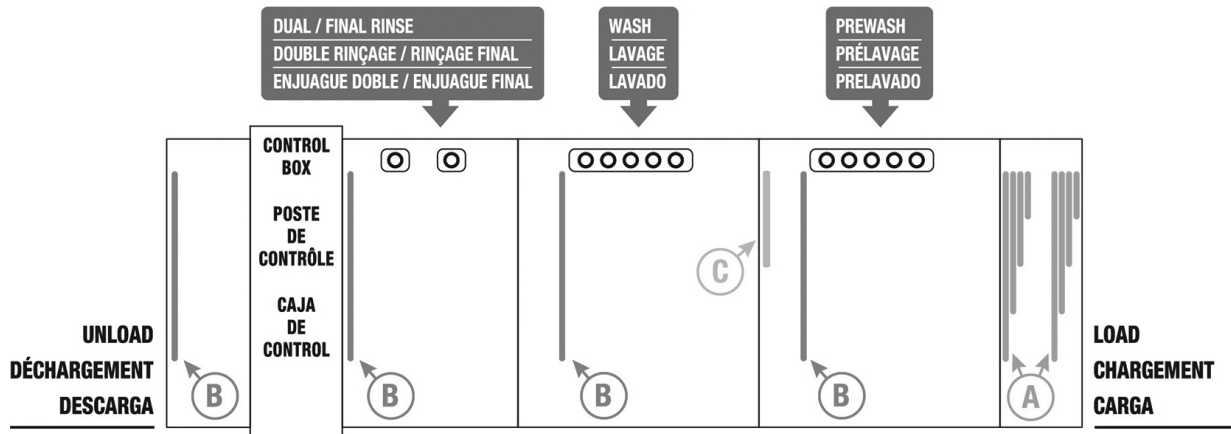
Left to Right

5' CENTER SECTION | ZONE CENTRALE DE 5 pi (1524 mm) | ZONA CENTRAL DE 5'



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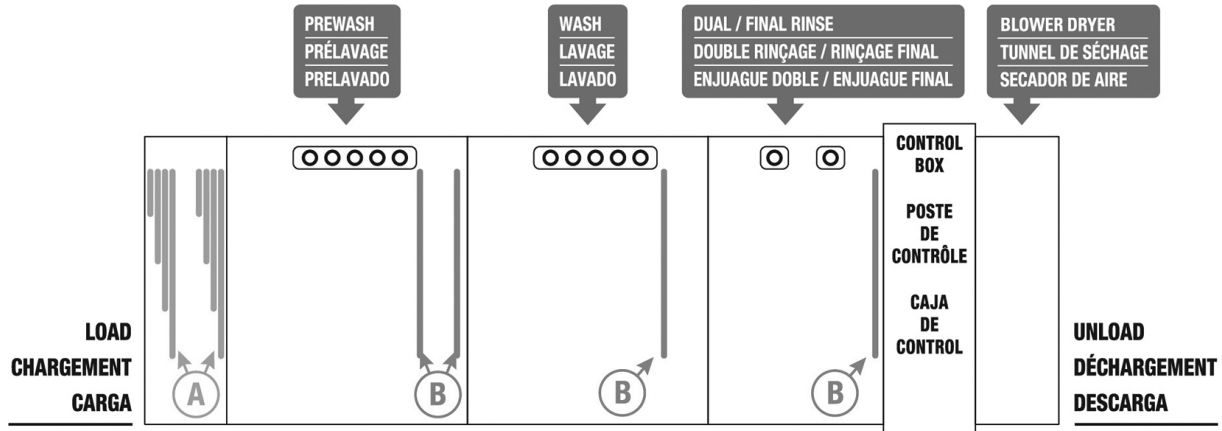
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RIDEAUX COURT (JAUNE)
CORTINAS CORTAS (AMARILLO)

FT2000S-BAS, FT2000S-DWR and FT2000S-ADV
(With Blower Dryer, Standard Height)

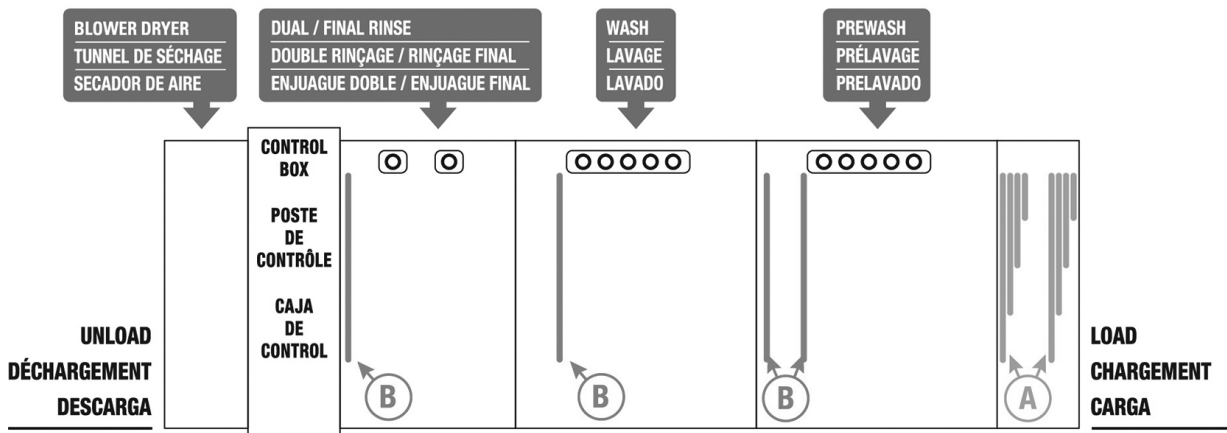
Left to Right

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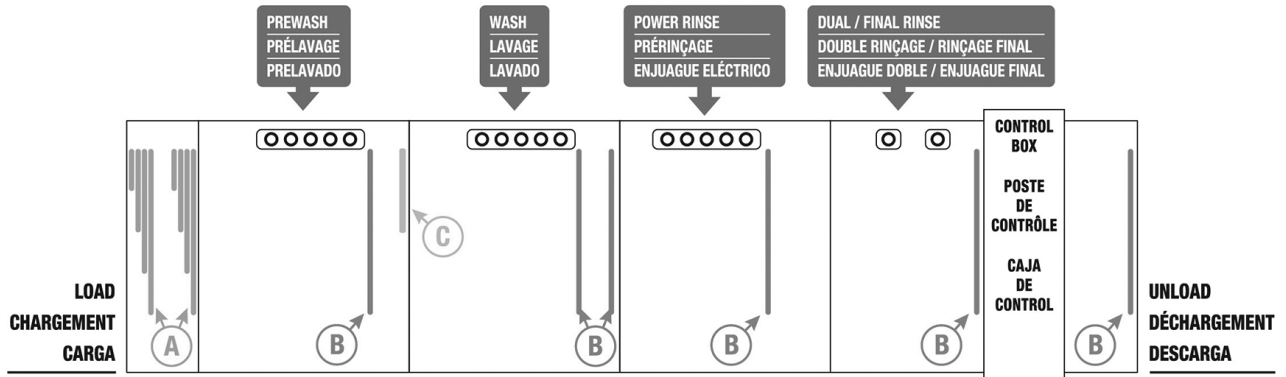
LEGEND | LÉGENDE | LEYENDA

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|--|---|--|
| <p>(A) 4-PLY CURTAINS (BLUE)
RIDEAUX A 4 ÉPAISSEURS (BLEU)
CORTINAS DE 4 CAPAS (AZUL)</p> | <p>(B) LONG CURTAINS (GREEN)
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RIDEAUX COURT (JAUNE)
CORTINAS CORTAS (AMARILLO)</p> |
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**FT2000-BAS, FT2000-DWR and FT2000-ADV
(Higher Than Standard)**

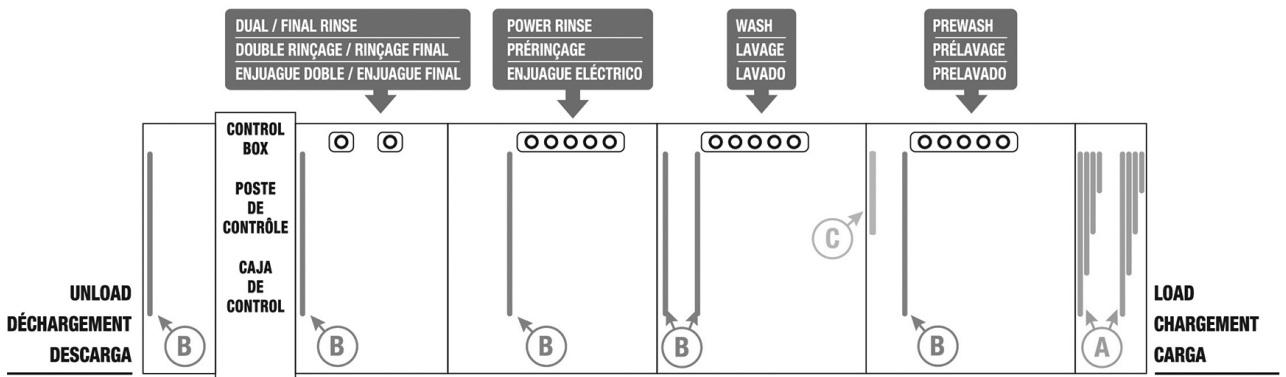
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Right to Left

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LEGEND | LÉGENDE | LEYENDA

(A) 4-PLY CURTAINS (BLUE)
RIDEAUX A 4 ÉPAISSEURS (BLEU)
CORTINAS DE 4 CAPAS (AZUL)

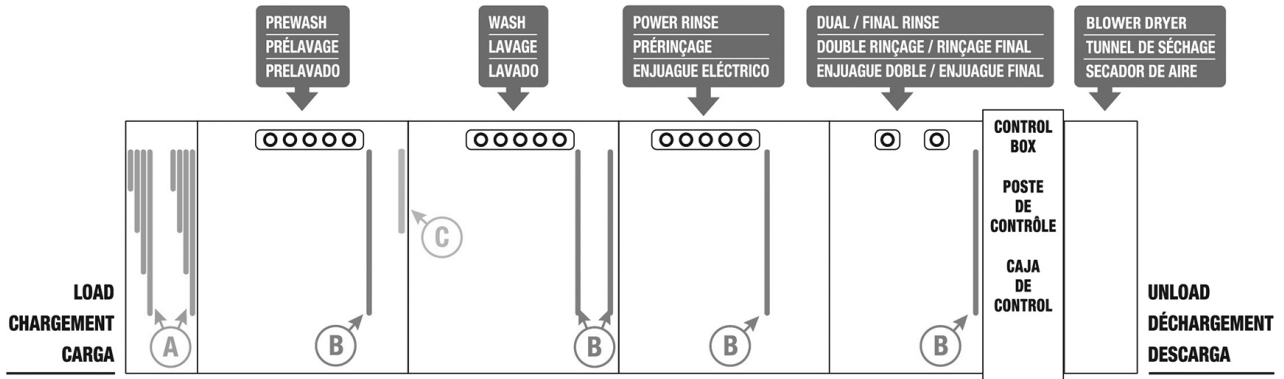
(B) LONG CURTAINS (GREEN)
RIDEAUX LONGS (VERT)
CORTINAS GRANDES (VERDE)

(C) SHORT CURTAINS (YELLOW)
RIDEAUX COURT (JAUNE)
CORTINAS CORTAS (AMARILLO)

FT2000-BAS, FT2000-DWR and FT2000-ADV
(With Blower Dryer, Higher Than Standard)

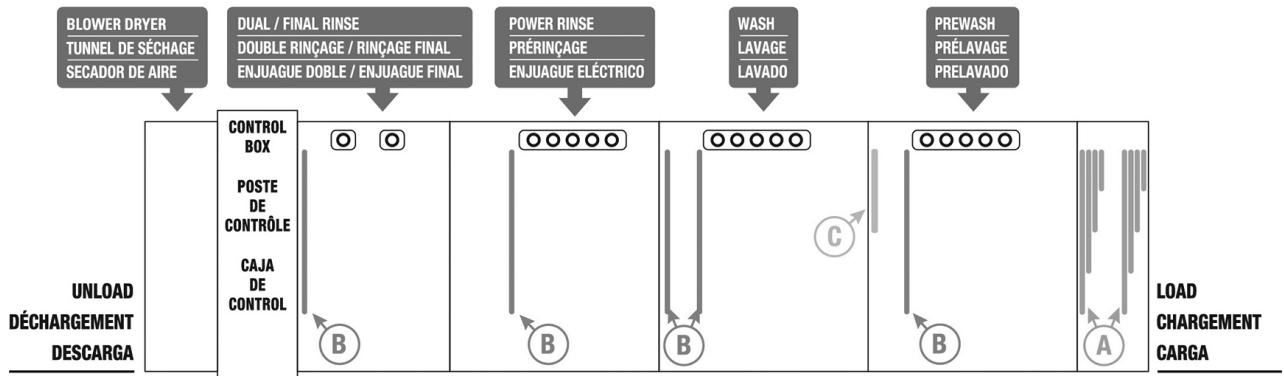
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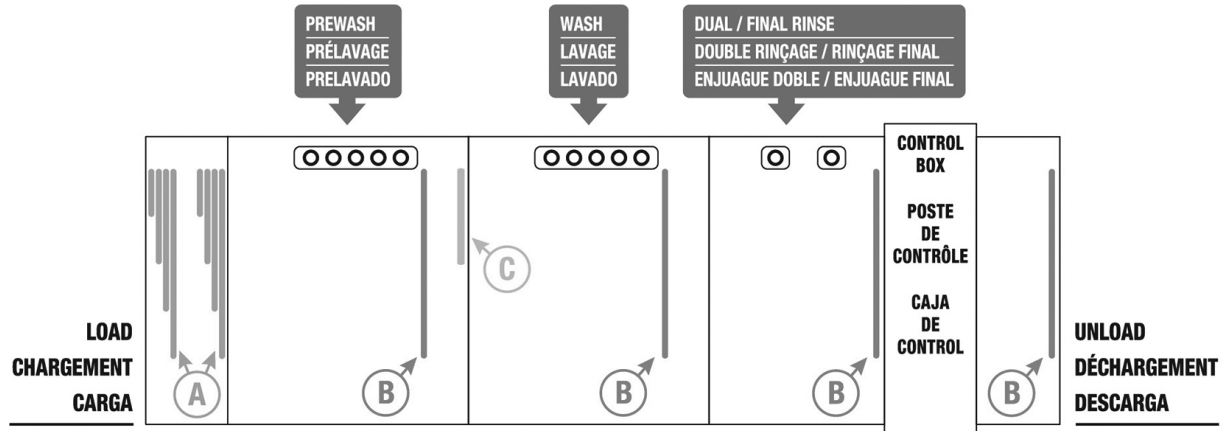
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| <p>(A) 4-PLY CURTAINS (BLUE)
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 CORTINAS CORTAS (AMARILLO)</p> |
|--|---|--|

FT2000S-BAS, FT2000S-DWR and FT2000S-ADV
(Higher Than Standard)

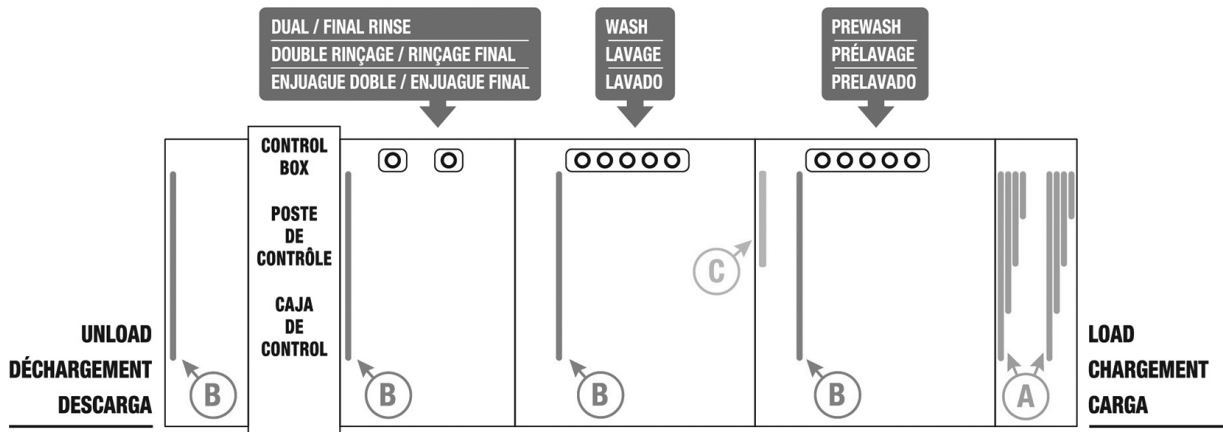
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CORTINAS DE 4 CAPAS (AZUL)

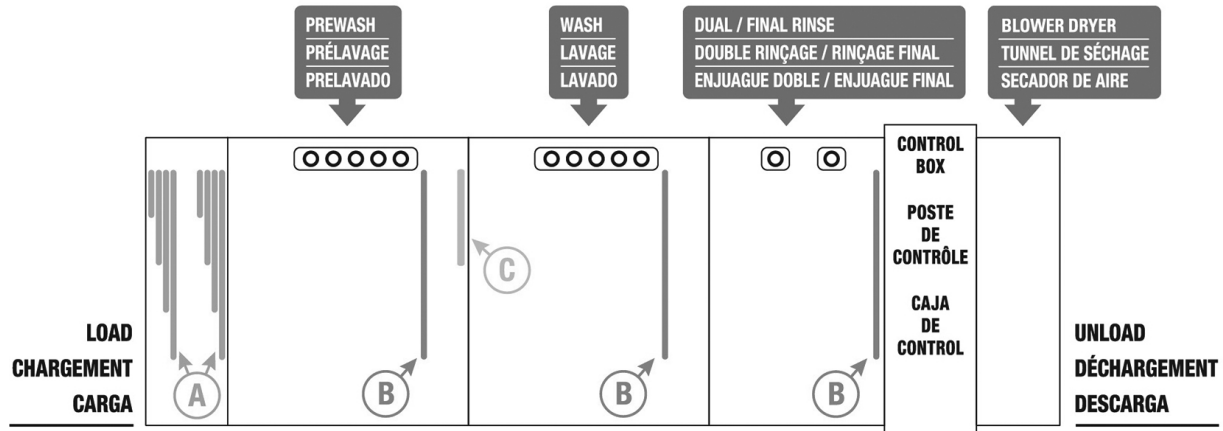
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CORTINAS CORTAS (AMARILLO)

FT2000S-BAS, FT2000S-DWR and FT2000S-ADV
 (With Blower Dryer, Higher Than Standard)

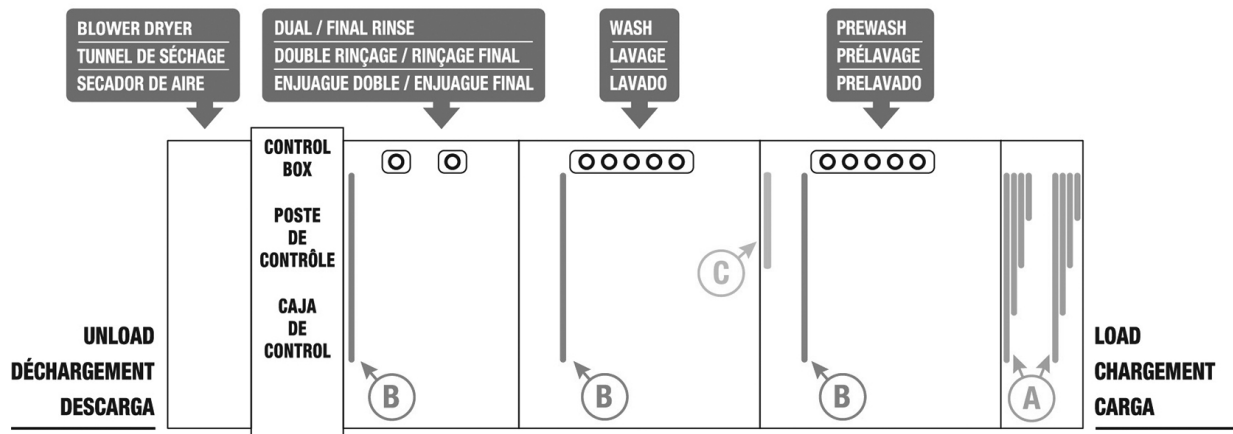
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|--|---|--|

CONTROLS SCREEN AND DISPLAY

The controls are mounted on the front of the dishwasher in the control box. The controls screen and display are mounted on the front of the control box (Fig.7)

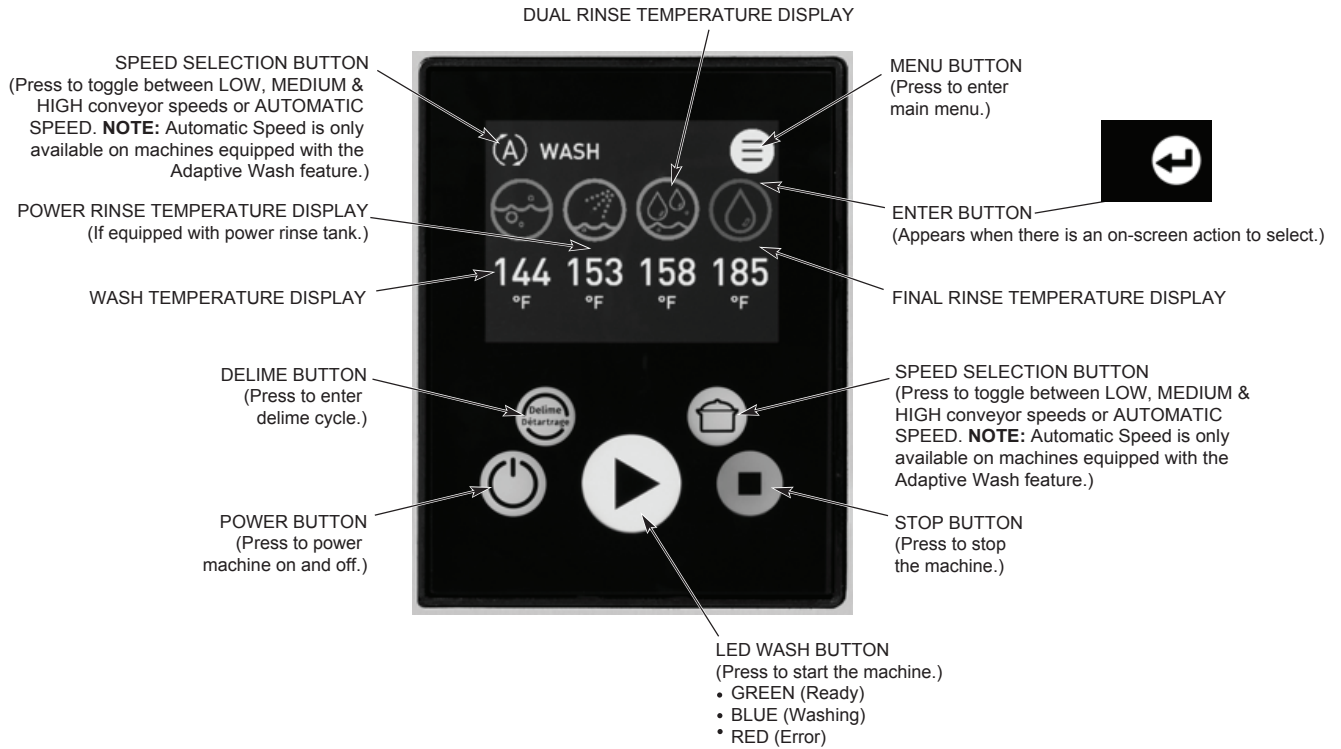


Fig. 7

FILLING THE TANKS

All water and steam (if equipped with steam heat) supply valves must be opened and the electric supply(s) turned on before the machine will function.

Close all drains and doors. The drain levers are located near the floor at the front of each tank. Swing all drain levers to the right to the closed or RUN position (Fig. 8). **NOTE:** If a drain(s) is not closed, 'Tank fill time exceeded. Confirm drain lever is closed. Check incoming water supply.' will display on the screen.



Fig. 8

Press the POWER button located on the controls screen on the front of the control box (page 14, Fig. 7) to power the machine on and start filling the tanks. The display will light up, and the machine will fill automatically. The tank filling image will display while the machine is filling (Fig. 9).

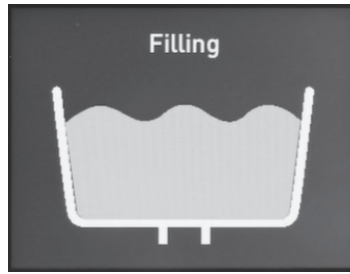


Fig. 9

If a door(s) is open, 'Close door(s).' will display on the screen and the fill valves will shut off. Close the door(s) to resume the fill cycle.

After the water level rises above the heat source in each tank and the booster tank, the wash, power rinse, dual rinse and booster heater begin to heat. When all tanks are full, the fill valves will automatically shut off, and the display will show the READY screen along with the tank temperatures. The final rinse temperature will not display until ware enters the final rinse zone.

The Maintenance Fill feature adds water to the tanks to maintain proper water levels during operation. If the water level drops below the lower threshold setting in any tank, the heat shuts off and filling resumes on the affected tank(s). Once the water level reaches the proper level, heating resumes while the tank(s) continue(s) filling until the proper water level is reached.

MINIMUM TEMPERATURES

The water temperatures in the tanks and final rinse are regulated by the controls. The temperatures are preset at the factory, and no adjustment should be required. If an adjustment is necessary, contact your local Hobart Service office. The display verifies proper water temperatures during operation.

Model	Wash Tank	Power Rinse Tank	Dual Rinse Tank	Final Rinse
FT2000-BAS FT2000-DWR FT2000-ADV	150°F	160°F	160°F	180°F
FT2000S-BAS FT2000S-DWR FT2000S-ADV	160°F	N/A	160°F	180°F

DISHWASHING

Start the dishwasher by pressing the green START button located at either the load or unload end of the machine (Fig. 10) or the WASH button located on the controls screen on the front of the control box (page 14, Fig. 7). The machine will operate only if the tanks have filled to the proper level and all doors and load and unload end panels are closed. Press the red STOP button located at either the load or unload end of the machine (Fig. 10) or the STOP button located on the controls screen on the front of the control box (Fig. 7).

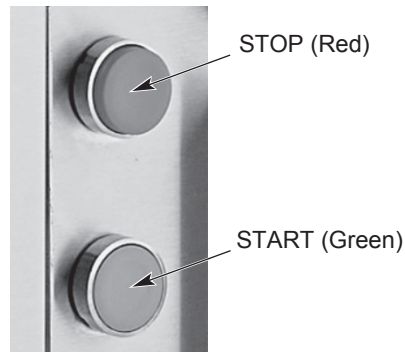


Fig. 10

When starting the machine operation, only the conveyor will run until the sensors detect ware and then the pumps will start. **NOTE:** The wash pumps in each section will start as the ware enters the sections.

All tank temperatures display on the controls screen when the machine is in operation. The Final Rinse temperature displays '---' until ware reaches the final rinse zone. Once the ware reaches the final rinse zone, the Final Rinse water temperature displays. After the ware exits the final rinse zone, the Final Rinse temperature reverts back to the '---' display.

If ware reaches the unload end of the machine and trips the dish limit switch, the conveyor and final rinse operation stops, and the display will show the tank temperatures along with the Unload Dishes notification. After the ware is removed and the dish limit returns to the operating position, normal operation resumes. If the ware is not unloaded, the Dish Limit Autotimer counts down for one minute and then shuts off the pumps and blower dryer (if equipped). The display continues to show the tank temperatures and the Unload Dishes notification.

If no ware enters the machine for a preset amount of time, the Autotimer automatically shuts the pumps and conveyor off and the tanks continue to maintain the required temperatures. To resume operation, press the green START button located at either the load or unload end of the machine or the WASH button located on the controls screen on the front of the control box.

NOTE: The Autotimer factory default is 1 minute. This time can be adjusted as shown in the Manager Menu Parameters chart, page 24. The range is from 1 to 360 minutes and can be adjusted in 1-minute increments.

Empty Strainer Baskets As Necessary

The external scrap basket and tank scrap baskets will fill with food soil during operation which can affect dishwasher operation and wash results, therefore must be emptied periodically. Stop the machine and open the access doors; tank scrap baskets are immediately inside at the front of the tanks. The external scrap basket is located in the load end of the machine.

Loading

Pre-scrub dishes thoroughly to remove large food particles and debris. Never use steel wool on ware to be loaded into the dishwashing machine; this could introduce surface corrosion which could eventually interfere with machine operation.

All plates, saucers, trays, etc. should be loaded on the conveyor in an inclined position. Bowls should be loaded upside down. Silverware must be washed in racks to prevent loss of items; failing to do so could cause the conveyor to jam and damage ware or machine components.

DO NOT attempt to wash large items (pots, pans, trays, etc.) without first checking to make sure they fit through the machine opening. Such items must not be washed in the dishwasher unless they will easily pass through.

DO NOT allow foreign objects to enter the unit, especially metallic contaminants.

Unloading

Remove ware from the conveyor. If a dish pushes against the dish limit at the unload end of the machine, the conveyor stops and the pumps run for one minute before shutting off.

Unload the conveyor starting with the ware furthest from the dish limit. Remove the ware that is striking the dish limit last. Once the dish limit returns to the operating position, the machine automatically restarts.

CONVEYOR SPEED ADJUSTMENT

Depending on the type of ware being washed, the conveyor speed can be adjusted by pressing one of the SPEED SELECTION buttons located on the controls screen on the front of the control box (page 14, Fig. 7). The current speed selection is shown in the upper left corner of the display. Pressing the SPEED SELECTION button will toggle to the next available speed which is displayed by the corresponding icon as shown below.



Low
Speed



Medium
Speed



High
Speed



Automatic
(If equipped with optional
Adaptive Washing
feature.)

ADAPTIVE WASHING

For -DWR and -ADV models equipped with the optional Adaptive Washing feature and the speed selection set to Automatic, the machine will detect the type of ware as it enters the machine and will automatically adjust the conveyor speed for optimal performance.

CLEANING

The dishwasher MUST be thoroughly cleaned at the end of each working shift, after each meal period or at the end of the day. Press the POWER button on the controls screen to turn the machine off.

⚠ WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

Drain the machine by swinging all tank drain levers to the left to the open or CLEAN position as shown on the labels located above each tank drain lever. Open the front access doors on each chamber.

Lift off and remove the side panels with the blue handles located at both the load and unload ends of the machine (Fig. 11). **NOTE:** For easier cleaning process, hang the unload side panel over the tank lip (Fig. 12). Open the load and unload ends of the machine as shown in Fig. 12. Using a spray hose, clean and flush food soils from the tank shelves.

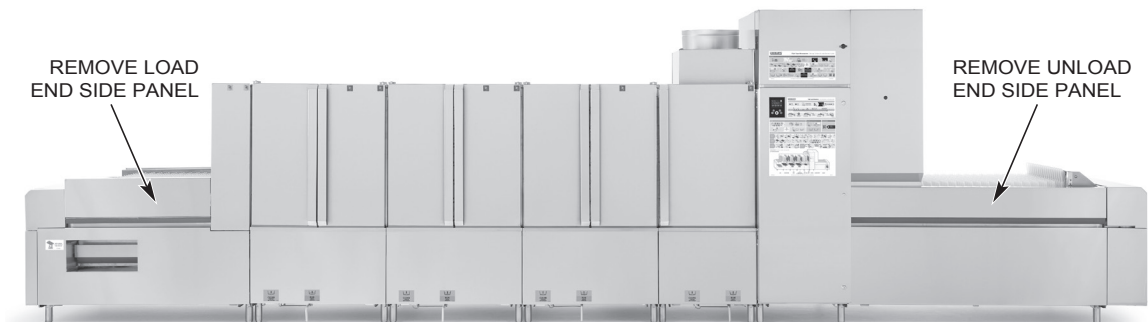


Fig. 11



Fig. 12

Remove and clean all curtains in a sink. Using a spray hose, spray the interior chambers and tank shelves to flush all debris towards the strainers.

Remove the lower wash arms by lifting the arms up clearing the tab from the notch in the wash arm support (Fig. 13) and slide the arms forward. Tilt the arms down towards the tank to allow any water to drain before removing. Slide the upper arms forward swinging the front of the arm down. Once removed, clean the arms in a sink by opening the sliders and flushing food soil from the arms.

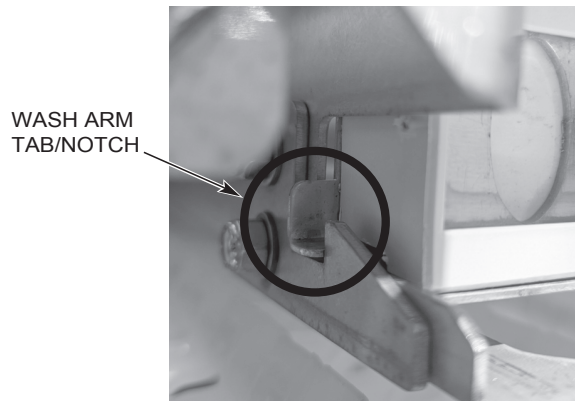


Fig. 13

Remove the external scrap basket located at the load end of the machine and the tank scrap baskets and strainer pans, including the dual rinse strainer pan (page 4, Figs. 1 & 2). Empty the strainers into a trash can and scrub in a sink.

NOTE: DO NOT STRIKE THE SCRAP BASKETS OR STRAINER PANS ON SOLID OBJECTS TO DISLodge DEBRIS.

Remove the upper and lower dual rinse and final rinse arms and clean debris from the nozzles and the arms. The upper and lower dual rinse and final rinse arms are marked 'I' and 'II' on each side. **NOTE:** To release the upper arms, pull the front tab forward to drop the arms (Fig. 14).

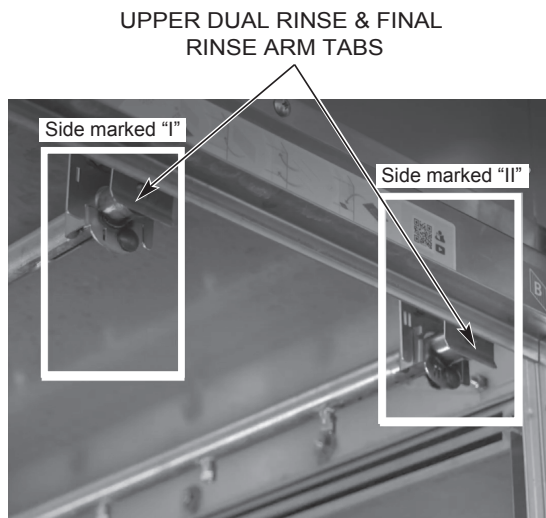


Fig. 14

Flush the tanks with a spray hose, removing any accumulation of food soil.

Ensure all wash arm sliders are closed and reinstall the wash arms to their proper locations and orientations. To install the wash arms, slide the manifolds on the supports towards the rear of the machine and ensure the tabs on the sides of the arms drop into the notches in the supports

Reinstall the upper and lower dual rinse and final rinse arms in their proper locations and orientations by using the matching numbers.

Reinstall the external scrap basket at the load end of the machine and the tank strainer pans and scrap baskets, including the dual rinse strainer pan.

Reinstall the curtains according to the appropriate curtain diagram (pages 6-13) and the curtain labels located on the machine at each curtain location. Ensure the curtain color and the letter stamp match the label.

Close the load and unload ends of the machine and reinstall the load and unload end side panels.

Clean the machine exterior like any other stainless-steel appliance with a damp cloth and mild soapy water.

Wipe the controls screen with a damp cloth and mild soapy water.

NOTE: Do not clean the exterior of the machine with delimer or bleach.

Wipe down the glass on the camera if the machine is equipped with the Adaptive Wash feature (Fig. 15).

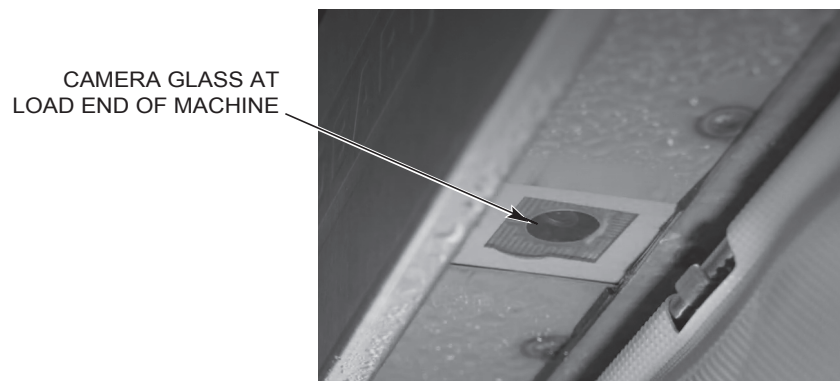


Fig. 15

Using a damp cloth or spray hose, wipe or spray the channels located at the entrance to the machine where the sensors are located (Fig.16).



Fig. 16

NOTE: DO NOT use metallic objects to clean the sensors as damage to the sensors may occur.

Leave the doors open to allow the interior of the machine to air out and dry.

DELIMING

Delime Notification Setup

All FT2000 dishwashers have the ability to notify the operator when to delime based on the incoming water hardness and machine usage. The factory default for water hardness is 3 grains per gallon. Refer to the PROGRAMMING section of this manual (page 24) to set the water hardness based on actual water conditions.

Delime Procedure

All FT2000 dishwashers are equipped with the Complete Delime™ and Booster Guard™ feature. The machine will notify the operator when to delime based on the incoming water hardness and machine usage. When prompted, the display will read 'Delime recommended. Run delime cycle.'. If ready to delime, press either arrow button to highlight 'Yes' and press the ENTER button. Press the ENTER button on 'No' to delime the machine later. If 'Yes' is selected, proceed to step 3 below. Start the process at step 1 if initiating the delime process manually without the notification. If initiating the delime process without the notification, the delime cycle can be initiated with the power in the off position or from the idle mode. Once the delime cycle has been completed, the delime notification reminder will be reset.

The machine will continue to display the delime notification reminder until a delime cycle has been completed. If the delime lockout has been enabled, the machine will automatically force a delime cycle after 30 notifications have been declined.

NOTE: The machine will automatically pump (2) gallons of delime solution into the dishwasher during the delime cycle. Ensure (2) one-gallon containers of delimer are present in the dedicated delime storage location located at the unload end of the machine and that the standpipes are fully inserted into the bottles (Fig. 17).



Fig. 17

1. Press the DELIME button located on the controls screen on the front of the control box (page 14, Fig. 7).
2. The display will prompt 'Start Delime Cycle? It will take approximately 60 minutes to complete.'. Press either arrow button to highlight 'Yes' and press the ENTER button.
3. The display will prompt 'Please clean strainers. Make sure delime bottles are full and delime tubes are fully inserted to each bottle. You can still power off the machine now to exit delime.'. Open the doors and remove the scrap baskets and strainer pans. Clean the baskets and pans in a sink and ensure all food soil is removed. Replace the strainer pans and scrap baskets in the machine, close the doors, and press the ENTER button.
4. The display will prompt 'Please drain the machine. You can still power off the machine now to exit delime.'. Swing all drain handles to the left to drain the tanks and then press the ENTER button. The display will show 'Draining for Delime process. Please wait.' and a progress bar.
5. After the machine has drained, the display will prompt 'Please close drain and doors.'. Swing all drain handles to the right to close the tank drains, close the doors, and then press the ENTER button.
6. The machine will display 'Filling for Delime process. Please wait.' and a progress bar. The machine will begin to fill and add the required amount of delime chemical while filling. Once the machine is full, 'Delime cycle in progress. Please wait.' will be displayed and the wash pumps will run for 20 minutes followed by a 10-minute rinse cycle where the display will show 'Rinse cycle in progress. Please wait.'. The rinse cycle will flush the delime chemical from the machine.
7. After the rinse cycle has completed, 'Delime cycle complete. Please drain the machine or the machine will be turned off automatically.' will be displayed. Swing all drain handles to the left to drain the tanks and then press the ENTER button. 'Delime cycle complete. Draining in progress. The machine will be turned off automatically.' will be displayed and the machine will power off after draining is complete.

NOTE: If there is no user interaction after 5 minutes after the rinse cycle has completed, the unit will power off. Once the unit is powered back on, 'Delime cycle complete. Please drain the machine or the machine will be turned off automatically.' will be displayed. Swing all drain handles to the left to drain the tanks. Once the machine has drained, the unit will power off.

DO'S AND DON'TS FOR YOUR NEW HOBART DISHWASHER

DO assure proper water hardness of 3 grains per gallon or less.

DO pre-scrap dishes thoroughly.

DO thoroughly rinse off any presoak solution prior to loading ware into the machine.

DO use only detergents recommended by your chemical supplier.

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

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

DO NOT use detergents formulated for residential dishwashers.

DO NOT use chlorinated detergents.

DO NOT allow food soil to accumulate on the tank bottom, tank sides, or door seals.

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

DO NOT allow foreign objects to enter the unit, especially metallic contaminants.

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

PROGRAMMING

MANAGER MENU


The FT2000 dish machines allow customization options for machine operation. To activate or change these features, enter the Manager Menu using the following procedure. **NOTE:** Changing the below Manager Menu Parameters is not covered by the Hobart factory warranty.

1. Power the dishwasher on. The display shows the READY screen once the fill cycle has completed.
2. Press the MENU button located in the upper-right hand corner of the display.
3. With 'Login' 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 through the Manager Menu.
 - a. Once the desired selection is highlighted, 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 through the parameters until 'Back' is highlighted and press the ENTER button. Repeat this procedure until the READY screen is displayed.

MANAGER MENU PARAMETERS

Parameter Name	Description	Possible Values	Default Value
MACHINE SETTINGS			
Language	Sets the language for machine display.	English, French, Spanish, etc.	English
Date	Sets the current day, month, year. Date format can be updated.		
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.	°F or °C	°F
MACHINE ALARM			
Machine Alarm	Enables or disables audible alarm.	Enable or Disable	Enable

Parameter Name	Description	Possible Values	Default Value
DIRTY WATER ALERT			
Dirty Water Alert	<p>Can be enabled to indicate that the water may be dirty and may need to be changed. The message will not be disabled until a water change event occurs by draining the tanks in the machine.</p> <p>Disabled – Ignores dirty water. No alert displays.</p> <p>Warning – After a period of operation, 'Dirty water reminder. Change wash water.' displays until the water is changed. Press the ENTER button to acknowledge the message and continue machine operation. Drain the water from the tanks and refill to clear the message.</p> <p>Error Message – After a period of operation, 'Dirty water alert. Change wash water.' displays and the machine is locked and will not allow operation. Drain the water from the tanks. Once the water is drained, the ENTER button will appear. Press the ENTER button to acknowledge the message and continue machine operation.</p>	Error message, Disabled, or Warning	Disabled
WATER HARDNESS			
Water Hardness	Sets the incoming water hardness in grains per gallon.	0 - 250 gr/gal	3 gr/gal
DELIME BUTTON			
Delime Button	Enables or Disables the delime button on the controls screen.	Enable or Disable	Enable
SPEED CHANGE BUTTON			
Speed Change Button	<p>Enables or Disables the two speed selection buttons on the controls screen.</p> <p>NOTE: Once the speed change button is set to Disable, the control locks into the current selected speed.</p>	Enable or Disable	Enable

Parameter Name	Description	Possible Values	Default Value
AUTOMATIC START *			
Enable/Disable	Allows the automatic start feature to be disabled or enabled.	Enable or Disable	Disable
Settings	<p>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. Once enabled, the clock symbol (below) will display once the machine is powered off and will remain on the display for 30 minutes.</p> 		
WiFi			
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"> • Search Network • WPS • Add-ing Network 	
Request 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	Manual connection to WiFi network.	<ul style="list-style-type: none"> • Search Network • Add-ing Network 	
Mobile Connection Assistant	Pairs machine to Wifi through SmartConnect app.	Enable or Disable	Disable

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

DRAIN WATER TEMPERING			
Drain Water Tempering	Enables or disables drain water tempering. Drain water tempering should only be enabled if the drain water tempering kit has been installed. NOTE: Drain water tempering is an optional field installed kit on -BAS models and is factory installed on -DWR and -ADV models.	Enable or Disable	Disable (-BAS models) Enable (-DWR and -ADV models)
ENERGY SAVER TIMER			
Energy Saver Timer	Time in READY mode before machine enters Energy Saver Mode. When machine enters Energy Saver Mode, the tank heats are disabled to save energy.	10-120 min	120 min
AUTOTIMER TIMEOUT			
Autotimer Timeout	Time after the final rinse (without blower dryer) or the blower dryer (if equipped with blower dryer) shuts off when the machine turns off if no additional ware is detected.	0-360 min	1 min
EXTERNAL FAN TIMEOUT			
External Fan Timeout	Time after wash pumps turn off before the external vent fan turns off.	5-999 min	5 min
REVERSE JOG			
Reverse Jog	Allows the conveyor to be jogged in the reverse direction in case there is a conveyor jam. Press and hold the reverse jog button on the display to jog the conveyor in the reverse direction to clear the jam.		

HOBART SMARTCONNECT APP

Thanks to built-in WiFi, you can connect your FT2000 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, 380-volt and 440-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 FT2000 to WiFi from the SmartConnect App

1. Tap on the **“Menu”** button, then tap on the **“WiFi”** button.
2. Select the Dishwashing option.
3. Select FT2000 Screen for U.S.
4. Follow the guide in the app to prepare the machine for connection, then 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”** button, then tap on the **“+”** button and enter the access code to pair with the machine.

Connecting the FT2000 to WiFi from the Machine

1. Tap on the **“Menu”** button, select **“Manager Menu”** and enter pin 1001.
2. Scroll to **“WiFi”** and press Enter.
3. Scroll and select **“Connection Assistant”**. If prompted to Enable WiFi, select Enable and press Enter.
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. Press Enter and scroll thru the Terms and Conditions and press Enter. Wait for the machine to 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 to troubleshoot your connection.

To Pair and Add your FT2000 to the App

Before pairing, make sure your machine is connected to WiFi using the previous steps. To pair your Hobart FT2000 to the SmartConnect App:

From the Dishmachine

1. Tap on the “**Menu**” button to enter the manager menu on your dishmachine.
2. Select “**Manager Menu**” and enter pin 1001.
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 “**Menu**” button and then tap on the “+” button at the bottom of the screen.
2. Enter the activation code found in the manager menu of the machine's touchscreen, then tap **Submit**.
3. Enter your machine name and location (optional).
4. Select your service provider from the drop-down menu.
5. 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.

MAINTENANCE

⚠ WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

REVERSE JOG CONVEYOR

If a piece of ware gets jammed in the conveyor, do not pull or use excessive force to remove the item as damage to the machine may occur. Refer to the PROGRAMMING section (page 24) to login to the Manager Menu to access the Reverse Jog parameter. Once in the Reverse Jog parameter, press the Reverse Jog button (Fig. 18) and the conveyor will jog in the reverse direction of operation to free the jam.



Fig. 18

LINE STRAINERS

Line strainers used in water or steam lines should be cleaned one week after machine installation and periodically thereafter.

LUBRICATION

A list of acceptable lubricants, as well as the lubricants themselves, are available from your local Hobart Service office.

Motors

All motors have sealed bearings and require no lubrication maintenance.

Conveyor Gearmotor

Check the oil level in the conveyor gearmotor at the unload end of the machine every six months by removing the gear case fill plug (Fig. 19). The oil level should be at the bottom of the fill plug hole. Draining the gear case can be achieved by removing the drain plug (Fig. 19) and capturing and recycling the drained oil. After re-screwing the drain plug back in the hole, use only Shell Omala S2 G220 or equivalent to replenish or replace the oil.

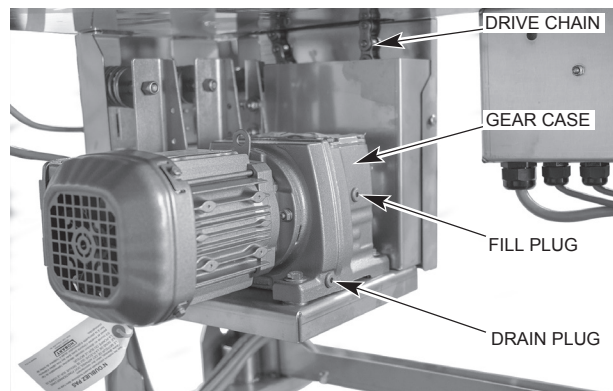


Fig. 19

Conveyor Drive Chain

Inspect the drive chain (Fig. 19) regularly and lubricate as required with an H2 food grade lithium grease.

Conveyor Take-Up Unit

Lubricate the two conveyor take-up unit adjusting screws (Fig. 20) at the load end of the machine at least twice a year using an H2 food grade lithium grease.

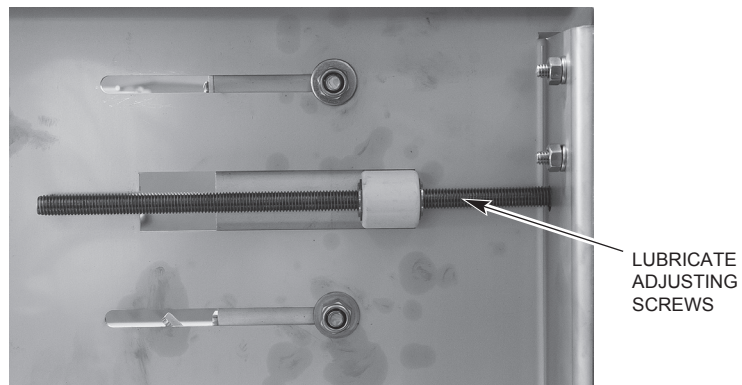


Fig. 20

DELIME

Inspect the machine for lime scale build-up and ensure the machine is delimed as required to prevent excessive scale build-up.

TROUBLESHOOTING

ERROR CODE CHART WITH POSSIBLE SOLUTIONS

Error No.	Text On Screen	Error Description	Troubleshooting
001	Booster temperature error. Contact Service.	Short circuit of booster temperature sensor or booster temperature is greater than 239°F / 115°C.	Contact Hobart Service.
002	Booster temperature error. Contact Service.	Open circuit of booster temperature sensor or booster temperature is greater than 32°F/0°C.	Contact Hobart Service.
004	Booster temperature not reaching during wash cycle.	During the wash cycle, the final rinse temperature did not meet the minimum setpoint temperature.	Press the ENTER button on the display to clear the error. If the error persists, contact Hobart Service.
006	Wash tank temperature error. Contact Service.	Short circuit of wash tank temperature sensor or booster temperature is greater than 239°F / 115°C.	Contact Hobart Service.
007	Wash tank temperature error. Contact Service.	Open circuit of wash tank temperature sensor or booster temperature is greater than 32°F/0°C.	Contact Hobart Service.
014	Booster level error. Contact Service.	Short circuit of booster pressure sensor or the maximum booster water level has been exceeded.	Contact Hobart Service.
015	Booster level error. Contact Service.	Open circuit of booster pressure sensor or the minimum booster water level has not been reached.	Contact Hobart Service.
016	Wash tank level error. Contact Service.	Short circuit of wash tank pressure sensor or the maximum booster water level has been exceeded.	Contact Hobart Service.
017	Wash tank level error. Contact Service.	Open circuit of wash tank pressure sensor or the minimum booster water level has not been reached.	Contact Hobart Service.
018	Wash tank water level too high. Check for drain obstructions.	Wash tank water level is above the upper limit.	Check drain for obstructions and drain the machine. If the error persists or unable to drain, contact Hobart Service.
020	Tank fill time exceeded. Confirm drain lever is closed. Check incoming water supply.	The wash tank did not fill within the anticipated time.	Ensure the drain is closed. Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 20 - 65 psi. Drain the machine and try filling again. If the error persists, contact Hobart Service.
023	Tank fill time exceeded. Confirm drain lever is closed. Check incoming water supply.	The wash tank water level did not increase within the set time.	Ensure the drain is closed. Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 20 - 65 psi. If the error persists, contact Hobart Service.



Error No.	Text On Screen	Error Description	Troubleshooting
029	Close door(s).	Door is opened during machine operation.	Close the door and ensure door is fully closed. The machine returns to Ready state. If the error persists, contact Hobart Service.
033	Booster fill time exceeded. Check incoming water supply.	The booster did not fill within the anticipated time.	Ensure the drain is closed. Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 20 - 65 psi. Drain the machine and try filling again. If the error persists, contact Hobart Service.
039	Close door(s).	Door is opened during the fill cycle.	Close the door and ensure door is fully closed. The fill program continues. If the error persists, contact Hobart Service.
049	Communication between the controls has been interrupted. Contact service.	Interruption of communication between control board and touchscreen display.	Communication between the controls should be automatically restored. If the problem persists, contact Hobart Service.
080	Delime required. Run delime cycle.	If delime lockout is enabled, machine will lock out due to delime reminder being ignored 30 times.	Press the Enter button on the display to run a delime cycle and reset the delime reminder.
081	Final rinse temperature error. Contact Service.	Short circuit of final rinse temperature sensor or final rinse temperature is greater than 239°F / 115°C.	Contact Hobart Service.
082	Final rinse temperature error. Contact Service.	Open circuit of final rinse temperature sensor or final rinse temperature is greater than 32°F/0°C.	Contact Hobart Service.
083	Final rinse temperature too low.	The final rinse temperature did not reach minimum temperature within set time.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
084	Final rinse temperature too low. Machine locked.	The final rinse temperature did not reach minimum temperature within set time. Wash cycle is stopped.	Press the Enter button on the display to clear the error. The machine will turn off. If the error persists, contact Hobart Service.
085	Wash tank heater ovetemp tripped. Contact Service.	Wash tank overtemp has been tripped.	Contact Hobart Service.
086	Booster heater ovetemp tripped. Contact Service.	Booster overtemp has been tripped.	Contact Hobart Service.
088	Wash tank contactor error. Turn circuit breaker off. Contact service.	Wash tank heater remains on while ignoring software command to turn off.	Turn circuit breaker(s) to machine off and do not drain the machine. Contact Hobart Service.
089	Booster contactor error. Turn circuit breaker off. Contact service.	Booster heater remains on while ignoring software command to turn off.	Turn circuit breaker(s) to machine off and do not drain the machine. Contact Hobart Service.
094	Power rinse tank level error. Contact Service.	Short circuit of power rinse tank pressure sensor or the maximum power rinse tank water level has been exceeded.	Contact Hobart Service.

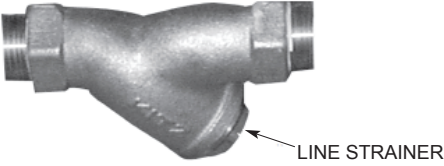
Error No.	Text On Screen	Error Description	Troubleshooting
095	Power rinse tank level error. Contact Service.	Open circuit of power rinse tank pressure sensor or the minimum power rinse tank water level has not been reached.	Contact Hobart Service.
100	Power rinse tank temperature error. Contact Service.	Short circuit of power rinse temperature sensor or power rinse tank temperature is greater than 239°F / 115°C.	Contact Hobart Service.
101	Power rinse tank temperature error. Contact Service.	Open circuit of power rinse temperature sensor or power rinse tank temperature is greater than 32°F/0°C.	Contact Hobart Service.
102	Drain Water Tempering (DWT) temperature error. Contact service or disable in menu if DWT assembly is not installed.	Short circuit of Drain Water Tempering temperature sensor or power rinse tank temperature is greater than 239°F / 115°C.	If Drain Water Tempering assembly has not been installed, disable DWT in the manager menu. Contact Hobart Service.
103	Drain Water Tempering (DWT) temperature error. Contact service or disable in menu if DWT assembly is not installed.	Open circuit of Drain Water Tempering temperature sensor or power rinse tank temperature is greater than 32°F/0°C.	If Drain Water Tempering assembly has not been installed, disable DWT in the manager menu. Contact Hobart Service.
111	Conveyer jam. Unload rack and check for jam.	The conveyer is jammed and unable to move.	Unload ware and check for jam. Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
113	Unload Rack/Dishes	The conveyer is full and racks need unloaded.	Unload ware and check for ware stuck in the entrance of the machine. Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
116	Pre wash tank pressure error. Contact service.	Short circuit of pre wash tank pressure sensor or the maximum pre wash tank water level has been exceeded.	Contact Hobart Service.
117	Pre wash tank pressure error. Contact service.	Open circuit of pre wash tank pressure sensor or the minimum pre wash tank water level has not been reached.	Contact Hobart Service.
118	Dual rinse temperature sensor failure. Contact service.	Short circuit of dual rinse temperature sensor or dual rinse tank temperature is greater than 239°F / 115°C.	Contact Hobart Service.
119	Dual rinse temperature sensor failure. Contact service.	Open circuit of dual rinse temperature sensor or dual rinse tank temperature is greater than 32°F/0°C.	Contact Hobart Service.

Error No.	Text On Screen	Error Description	Troubleshooting
138	Power rinse overtemp tripped. Contact service.	Power rinse heater remains on while ignoring software command to turn off.	Contact Hobart Service.
140	Booster fill time exceeded. Check incoming water supply.	The booster water level did not increase within the set time.	Ensure the drain is closed. Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 20 - 65 psi. Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
141	Booster fill time exceeded. Check incoming water supply.	The booster water level did not increase within the set time.	Ensure the drain is closed. Ensure incoming water supply is turned on and that fill hose is not kinked. Verify water pressure is 20 - 65 psi. Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
160	Wash tank temperature not reached.	During the wash cycle, the wash tank temperature did not meet the minimum setpoint temperature.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
163	Wash tank temperature not reached.	During the wash cycle, the wash tank temperature did not meet the minimum setpoint temperature. Wash cycle is stopped.	Press the Enter button on the display to clear the error. The machine will turn off. If the error persists, contact Hobart Service.
166	Rinse temperature not reached.	During the wash cycle, the final rinse temperature did not meet the minimum setpoint temperature. Wash cycle is stopped.	Press the Enter button on the display to clear the error. The machine will turn off. If the error persists, contact Hobart Service.
169	Power rinse temperature not reached.	During the wash cycle, the power rinse temperature did not meet the minimum setpoint temperature.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
170	Power rinse temperature not reached.	During the wash cycle, the power rinse temperature did not meet the minimum setpoint temperature. Wash cycle is stopped.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
177	Dual Rinse tank pressure sensor failure. Contact service.	Short circuit of dual rinse tank pressure sensor or the maximum dual rinse tank water level has been exceeded.	Contact Hobart Service.
178	Dual Rinse tank pressure sensor failure. Contact service.	Open circuit of dual rinse tank pressure sensor or the minimum dual rinse tank water level has not been reached.	Contact Hobart Service.
183	Dirty water reminder. Change wash water.	The machine has been running for too long without the water being changed.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
184	Dirty water alert. Change wash water.	The machine has been running for too long without the water being changed.	Drain the machine. Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.

Error No.	Text On Screen	Error Description	Troubleshooting
186	Power rinse tank contactor error. Turn circuit breaker off. Contact service.	Power rinse tank heater remains on while ignoring software command to turn off.	Turn circuit breaker(s) to machine off and do not drain the machine. Contact Hobart Service.
187	Dual rinse tank contactor error. Turn circuit breaker off. Contact service.	Dual rinse tank heater remains on while ignoring software command to turn off.	Turn circuit breaker(s) to machine off and do not drain the machine. Contact Hobart Service.
189	Dual rinse temperature not reached.	During the wash cycle, the dual rinse temperature did not meet the minimum setpoint temperature.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
190	Dual rinse temperature not reached.	During the wash cycle, the dual rinse temperature did not meet the minimum setpoint temperature. Wash cycle is stopped.	Press the Enter button on the display to clear the error. If the error persists, contact Hobart Service.
234	External conveyor not ready. Ensure external conveyor is powered on and ready	When trying to start a wash cycle, the external conveyor is off, has an error, or is not connected to the machine.	Ensure external conveyor has power and no errors. If the error persists, contact Hobart Service.
242	ECA10 disconnected	The connection to the ECA10 card is damaged or disconnected.	Contact Hobart Service.
253	Steam booster temperature sensor failure. Contact service.	Short circuit of steam booster temperature sensor or power rinse tank temperature is greater than 239°F / 115°C.	Contact Hobart Service.
254	Steam booster temperature sensor failure. Contact service.	Open circuit of steam booster temperature sensor or power rinse tank temperature is greater than 32°F/0°C.	Contact Hobart Service.
263	Close Load or Unload Panels	Load or unload panel is opened.	Close the panels and ensure panels are fully closed. The machine returns to Ready state. If the error persists, contact Hobart Service.

TROUBLESHOOTING CHART

Symptom	Possible Cause NOTE: If symptom(s) persist after possible causes have been checked, contact Hobart Service.
Machine Won't Operate After Start Button is Pressed	<ol style="list-style-type: none"> 1. Inspection door(s) not closed. Door(s) Open displays. 2. Conveyor may be jammed. 3. Ensure load and unload ends are properly closed. 4. Check drains, make sure they're closed. Check tanks, make sure they're full. 5. Blown fuse or tripped circuit breaker at power supply.
Ware Not Clean	<ol style="list-style-type: none"> 1. Insufficient pre-scraping or tank water may need to be changed. 2. Wash arm sliders in open position. 3. Wash arm nozzle obstruction(s). 4. Loss of water pressure due to pump obstructions. ⚠ WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected. 5. Incorrect water temperature. Check circuit breaker to electric heat supply, or main steam valve. Make certain valve is completely open. 6. Incorrect detergent dispensing. Contact your chemical representative. 7. Wash arms installed incorrectly. 8. Ware not loaded properly. Do not stack ware. 9. Ensure all scrap baskets and strainer pans are properly installed in each tank. 10. Ensure all curtains are properly installed.
Spotting of Ware	<ol style="list-style-type: none"> 1. Ware not loaded properly. 2. Incorrect final rinse water temperature (minimum 180°F). 3. Incorrect detergent and/or rinse aid dispensing. Contact your chemical representative. 4. Improper water hardness (3 grains or less per gallon is recommended). 5. Clogged rinse nozzle(s). 6. Misaligned rinse arms. Rinse arms should be positioned so that they align in hub on chamber wall. 7. Water leaking past rinse arm manifold O-ring.
Inadequate Rinse	<ol style="list-style-type: none"> 1. Dirty line strainer causing reduced water flow. Turn off water supply, remove strainer cap, remove and clean screen. 2. Rinse arm(s) are not properly inserted in the hubs. 3. Clogged dual rinse nozzle(s) – clean the nozzle(s). 4. Dual rinse tank strainer pan is clogged – clean the strainer pan. 5. Ensure rinse arms are free of lime scale. Delime the machine as required.
Continuous Rinse Operation	<ol style="list-style-type: none"> 1. Photoelectric sensors are blocked. Clean channels where sensors are located (Fig. 21). 2. Remove the vertical panels from the load end of the machine adjacent to the prewash chamber. With machine power on, verify LEDs on sensor (Fig. 22) flash on and off when blocking and unblocking the sensor. 3. Improperly operating rinse pump circuit. Contact Hobart Service.
 <p data-bbox="462 1829 542 1858">Fig. 21</p>	 <p data-bbox="1117 1829 1196 1858">Fig. 22</p>

Tanks Not Heating/Low Tank Temperature(s)	<ol style="list-style-type: none"> 1. Low water safety devices shut off heat. Check for proper water level. 2. Pressure sensor malfunction. Contact Hobart Service. 3. Circuit breaker(s) to heat system tripped (electric heat). 4. Steam supply valve(s) are not opened completely or supply pressure too low (steam heat). 5. Overtemp protector tripped (electric heat). Contact Hobart Service. 6. Failed heating element (electric heat). Contact Hobart Service. 7. Bucket trap not functioning correctly (steam heat). Contact Hobart Service. 8. Improperly operating steam solenoid valve(s) (steam heat). Contact Hobart Service. 9. Ensure all curtains are properly installed. 10. Ensure all wash arm sliders are closed.
No Fill or Slow Fill	<ol style="list-style-type: none"> 1. Door(s) are open. 2. Drain(s) open 3. Main fill (water supply valve) could be closed. 4. Pressure sensor malfunction. Contact Hobart Service. 5. Dirty line strainer (Fig. 23) causing reduced water flow. Turn off water supply, remove strainer cap, remove and clean screen. 6. Problem with solenoid valve. Contact Hobart Service. 7. Low incoming water supply pressure.
 <p>Fig. 23</p>	
No Blower Dryer Heat (Electric Heat Blower Dryer)	<ol style="list-style-type: none"> 1. Blower motor not operating properly. 2. Circuit breaker to electric blower dryer heaters tripped. 3. Overtemp protector tripped; red overtemp indicator light is lit. Contact Hobart .
No Blower Dryer Heat (Steam Blower Dryer)	<ol style="list-style-type: none"> 1. Blower motor not operating properly. 2. Improperly operating steam solenoid valve. 3. Steam supply valve is not completely open or supply pressure is too low. 4. Bucket trap not functioning correctly.
Excessive steam out ends of machine.	<ol style="list-style-type: none"> 1. Ensure all curtains are properly installed. 2. Ensure no kitchen fans are blowing directly into machine. 3. Excessive foaming due to improper detergent or excessive pre-soak residue. Contact chemical supplier. 4. Ensure all wash arm sliders are closed. 5. Ensure facility exhaust fan is running properly and proper CFM is being pulled from machine.
Conveyor moving too slow or too fast.	<ol style="list-style-type: none"> 1. Press the speed selection button located on the controls screen on the front of the control box (page 14, Fig. 7) to change the conveyor speed.
Conveyor speed not adjusting when set on Automatic speed setting (only for machines equipped with the optional Adaptive Wash feature).	<ol style="list-style-type: none"> 1. Ensure the camera glass, located at the load end of the machine, is clean (page 20, Fig. 15).

SERVICE

FT2000 EXPENDABLE PARTS

The below FT2000 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
01-606098	Tubing, 1/4", High Temp	1	All
00-950188	Tubing, 1/4", Low Temp	1	All
00-113156-00001	Clamp (spring action hose)	AR	All
00-949651-00002	Squeeze tube kit, Delime (includes hose clamps)	1	All
00-949795	Roller - Conveyor	AR	All
RR-006-23	Retaining Ring	AR	All
00-289374	Bar - Side Conveyor	AR	All
00-081808	Link -Flight, Type A	AR	Type A or Tivoli Conveyor
00-950544	Link -Flight, Standard	AR	Standard Conveyor
00-291840-00001	Link - Flight, Short	AR	Position 1 or Position 2 Conveyor
00-291841-00001	Link - Flight, Position 1	AR	Position 1 Conveyor
00-291842-00001	Link - Flight, Position 1	AR	Position 1 Conveyor
00-291841-00002	Link - Flight, Position 2	AR	Position 2 or Tivoli Conveyor
00-291842-00002	Link - Flight, Position 2	AR	Position 2 Conveyor
00-291839-00001	Link - Flight, Spacer	AR	Tivoli Conveyor
01-606182-00001	Curtain, Splash, 4-Ply, Blue, STD Height	AR	Standard Height Machines
01-606182-00002	Curtain, Splash, 4-Ply, Blue, HTS	AR	HTS Machines
01-606183-00001	Curtain, Splash, 3-Ply, Green, STD Height	AR	Standard Height Machines
01-606183-00002	Curtain, Splash, 3-Ply Green, HTS	AR	HTS Machines
01-606184	Curtain, Splash, Short, Yellow	AR	HTS Machines
00-892514-00002	Spacer - Stacking (Type A Conveyor, Short)	AR	Type A, Position 1, Position 2, or Tivoli Conveyor W/O Cross Rods
00-892514-00003	Spacer - Stacking (Type A Conveyor, Long)	AR	Type A, Position 1, Position 2, or Tivoli Conveyor W/O Cross Rods
00-892514-00005	Spacer - Stacking (Standard Conveyor)	AR	Standard Conveyor W/O Cross Rods
00-950615	Finger - Trip Arm Stacking	AR	All Conveyors W/O Cross Rods

Contact your local Hobart Service office for any repairs or adjustments needed on this equipment. Long-term service contracts are available on this and other Hobart products.

