OPERATION

HBA RACK OVEN WITH ELECTRONIC OVEN CONTROL

MODELS

HBA1G	*GAS*
HBA2G	*GAS*
HBA1E	*ELECTRIC*
HBA2E	*ELECTRIC*

HOBART
CORPORATION
701 S. RIDGE AVENUE
TROY, OHIO 45374-0001
937 332-3000
www.hobartcorp.com

FORM 34757 Rev. A (Nov. 2003)

IMPORTANT FOR YOUR SAFETY

— GAS OVENS —

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

— ALL OVENS —

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.

KEEP AREA AROUND OVEN CLEAR OF COMBUSTIBLES. DO NOT OBSTRUCT COMBUSTION AND VENTILATION OPENINGS ON THE OVEN.

© HOBART CORPORATION, 2003



MODEL HBA RACK OVEN

TABLE OF CONTENTS

GENERAL 5

INSTALLATION 5

OPERATION 6

- HBA Standard Controls 6
- HBA Advanced Controls 10
- Back-Up Control Operation (Optional) 15
- Programming the Oven 16
- Customized Operation 20
- Shutdown 22
- Cleaning 23

MAINTENANCE 24

- General 24
- Preventive Maintenance 24
- Service and Parts Information 24

TROUBLESHOOTING 25

- Burners Will Not Light on Gas Oven 25

OWNER PREVENTIVE MAINTENANCE PROCEDURE 25

- Introduction 25
- Preventive Maintenance Procedure 25

OPERATION AND CARE OF MODEL HBA GAS RACK OVEN

SAVE THESE INSTRUCTIONS

GENERAL

The Hobart HBA Rack Oven accommodates a roll-in rack. It is equipped with an electronic oven control for baking and/or steaming applications. A mechanism in the oven ceiling rotates the rack during baking.

Model HBA1G is rated at 180,000 Btu/hr, natural or propane gas.

Model HBA2G is rated at 300,000 Btu/hr or 350,000 Btu/hr, natural or propane gas.

Model HBA1E is rated at 34.2 kW.

Model HBA2E is rated at 51.3 kW.

Hobart Rack Ovens are produced with quality workmanship and material. Proper installation, usage and maintenance of your oven will result in many years of satisfactory performance.

It is suggested that you thoroughly read this manual and carefully follow the instructions provided.

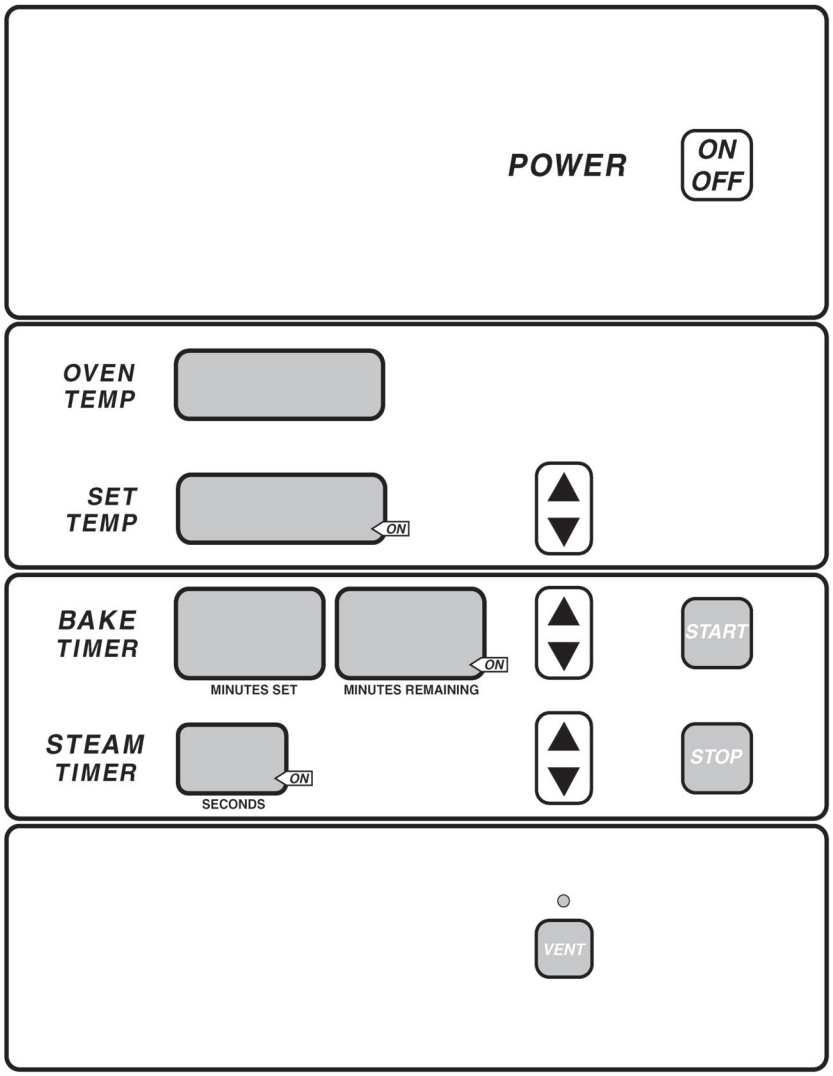
INSTALLATION

The Hobart HBA Rack Oven must be installed or moved only by authorized Hobart Bakery Systems trained service technicians.

OPERATION

HBA STANDARD CONTROLS

HBA CONTROLS - STANDARD



HOBART

Control Guide - Standard

Button	Action	Display
POWER 	Press to turn the oven ON or OFF.	Control panel displays are lit when the oven is on. Oven defaults to Program 0. If oven is turned off and back on within 2 minutes, the oven will come up in the last mode and oven setting.
SET TEMP 	Press to set the desired temperature (5-degree increments).	The SET TEMP window displays the set temperature. The ON light is lit while the oven is heating. The actual temperature in the oven cavity is displayed in the OVEN TEMP window.
BAKE TIMER 	Press to enter the BAKE time (1-minute increments).	The BAKE TIMER window displays the amount of time for the current baking cycle. The minutes set are the left two digits and minutes remaining are the right two digits. The windows can be set to display hours and minutes remaining. The ON light is lit when bake time is active. See Customized Operation to configure this setting.
STEAM TIMER 	Press to enter the STEAM time (5-second increments).	The STEAM TIMER window displays the amount of time set for the steam cycle. The ON light is lit when the steam enters the back chamber.
	Press to start the BAKE TIMER.	The ON light blinks when the BAKE TIMER is active.
	Press to stop the BAKE TIMER or silence the beeper after the BAKE TIMER has timed out.	The ON light is off when the BAKE TIMER is inactive.
	Press to open or close the vent.	The indicator light above the VENT button is lit when the vent cycle is enabled.

Oven Preheat

For best results, the oven must be preheated to bake temperature before baking begins.

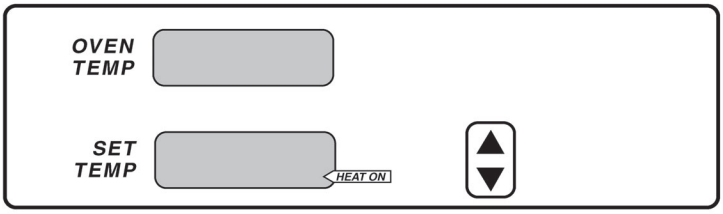
1. The door must be closed for oven to heat. The rack carrier will lift and rotate only during timed bake.

NOTE: The rack carrier will be in the unload position from the last bake.

2. Press the POWER ON OFF button to turn the oven on.



3. Press the UP or DOWN arrows next to the SET TEMP window to enter the desired baking temperature. Actual temperature of the oven will appear in the OVEN TEMP window.



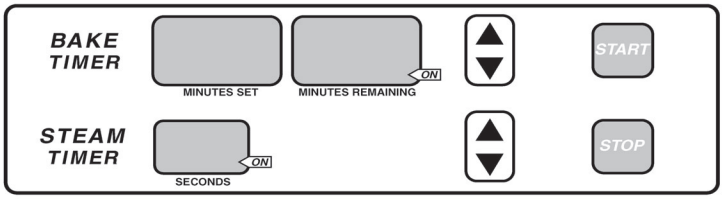
4. Allow 50 minutes after the oven has reached the set temperature for the steam system to charge.
5. The oven is now ready for baking operations.

Basic Operation

WARNING: THE OVEN AND ITS PARTS ARE HOT. TO PREVENT BURNS, USE HOT PADS OR PROTECTIVE MITTS WHEN LOADING OR UNLOADING THE OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

1. Preheat the oven. (See Oven Preheat) for HBA Standard Controls.
2. Manually select baking settings:



- Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time. Timer runs independently from other functions.

NOTE: Steam setting is optional and can be left at 0 if desired.

- If steam is desired, press the UP or DOWN arrows next to STEAM TIMER to enter the desired time in increments of 5 seconds.

3. Slowly open the door and load product.
4. Close the door and press the START button. The ON light in the BAKE TIMER window blinks as the timer counts down.
5. Rack lifts from floor and rotates clockwise.
6. The oven beeps after the BAKE TIMER times out. Press STOP to silence the beeper.
7. Open door. Allow rack carrier to stop and lower . Remove product

Loading Procedure

1. The rack carrier is equipped with a stop on both ends. For B lifts, ensure stop flap is in the up position to load the rack on the rack carrier. For C lifts, push rack stop to the left after rack is loaded.
2. Roll the rack into the oven so the end brackets channel onto the rack carrier.
3. Close the loading door. The rack carrier will lift and rotate only during timed bake.

Unloading Procedure

WARNING: THE OVEN AND ITS PARTS ARE HOT. TO PREVENT BURNS, USE HOT PADS OR PROTECTIVE MITTS WHEN LOADING OR UNLOADING THE OVEN.

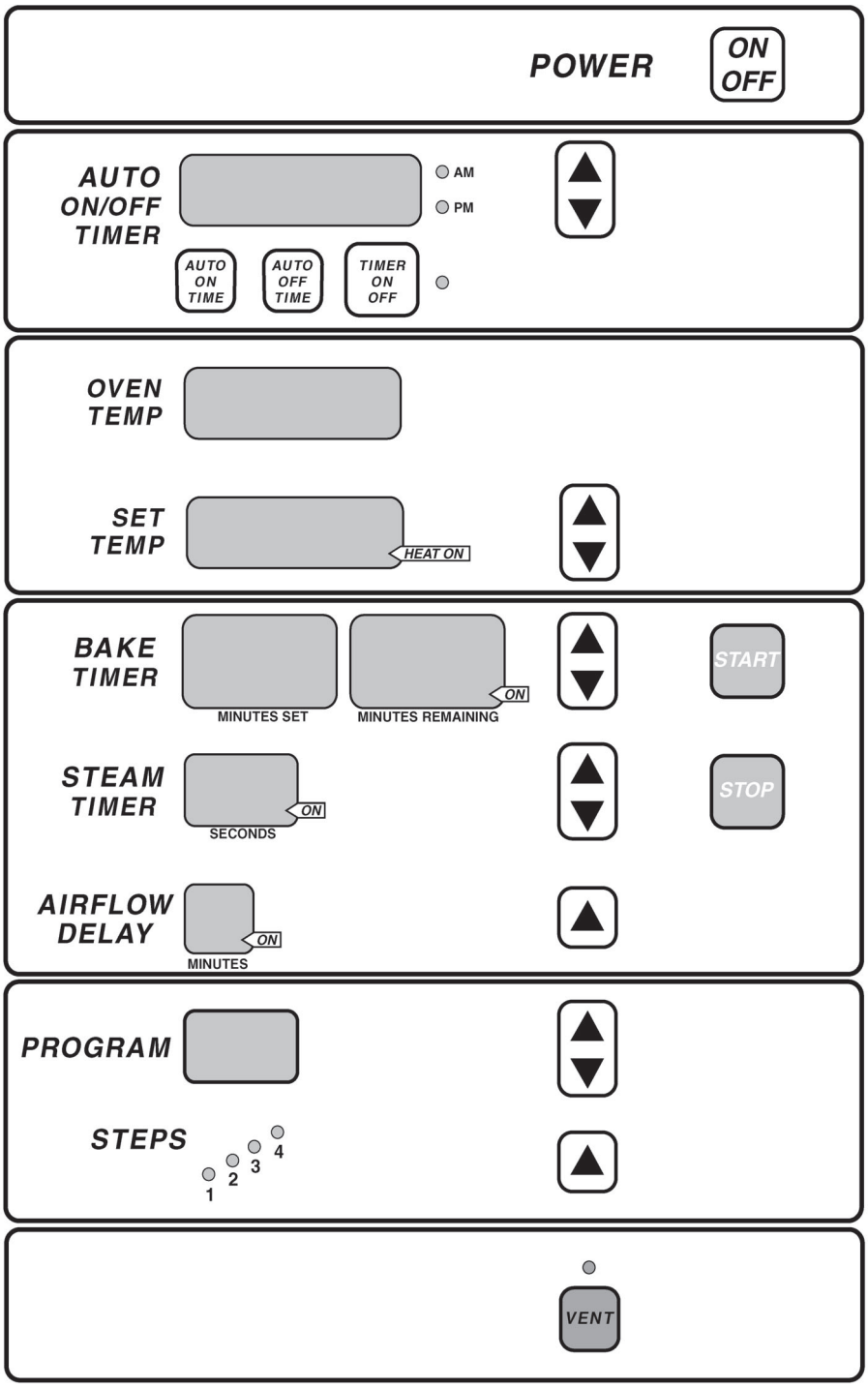
WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

1. Press STOP or open the loading door to silence the beeper.
2. Wait for the rack carrier to stop and lower.
3. For B lifts, push the rack stop down to unload the rack from the rack carrier. For C lifts, push rack stop to the right to open.
4. Roll the rack from the rack carrier.
5. Close the loading door.

Operational Hints

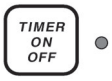
- On the initial startup, the oven temperature will default to the factory setting of 375°F (191°C) unless changed.
- During a baking cycle, the START and STOP buttons control the BAKE and STEAM settings only. They have no effect on the oven heat. When the BAKE TIMER times out, the oven heat stays at the set temperature. Care should be taken not to overbake products.
- To adjust the temperature during a baking cycle, press the UP or DOWN arrow in the oven temp section to enter the new temperature.
- To adjust steam settings, press the corresponding arrows to enter the new values. The steam timer cannot be adjusted during bake operation.
- You can adjust the time remaining with the arrows. The set time remains unchanged unless you “0” out the remaining time.
- If the door is opened at any time during the baking cycle, the TEMP, BAKE TIME and STEAM functions will pause. Close the door to resume all functions.
- The vent control can provide a means of cooling down the oven. When the oven is in the OFF mode and the door is open, press the VENT button once to start or stop the circulation fan. The fan will also stop when the door is closed or when the oven is put into the ON mode.
- The oven monitors the heating system by comparing the current oven temperature to the set temperature. If a problem arises in the heating system or if there is a heating system failure, both temperature displays will flash. If the problem continues, contact your authorized Hobart Bakery Systems service office.
- To cool the oven more than 20 degrees below its current temperature; change the SET TEMP to the desired new temperature, open the oven door, and press the VENT button. The SET TEMP display will alternate between COOL and the SET TEMP until the oven has cooled. When the oven has reached the set temperature, the alarm will beep and the control will return to normal operation. Closing the oven door or pressing any control button during Cool-Down mode will also return the control to normal operation.

HBA CONTROLS - ADVANCED



HOBART

Control Guide - Advanced

Button	Action	Display
POWER 	Press to turn the oven ON or OFF.	Control panel displays are lit when the oven is on. Oven defaults to Program 0. If oven is turned off and back on within 2 minutes, the oven will come up in the last mode and oven setting.
AUTO ON/OFF TIMER 	Press to enter current time or time for oven to Automatically turn on or off, when corresponding AUTO ON TIME or AUTO OFF TIME button is pressed.	The AUTO ON/OFF TIMER window displays the current time, or the time the oven will automatically turn on or off.
AUTO ON TIME 	Press to set the desired time of oven to automatically turn ON.	The AUTO ON/OFF TIMER window displays the time the oven will automatically turn on.
AUTO OFF TIME 	Press to set the desired time of oven to automatically turn OFF.	The AUTO ON/OFF TIMER window displays the time the oven will automatically turn off.
TIMER ON/OFF 	Press to turn the automatic timer ON or OFF.	The indicator light beside the timer ON/OFF button is lit when the function is enabled.
SET TEMP 	Press to set the desired temperature (5-degree increments).	The SET TEMP window displays the set temperature. The HEAT ON light is lit while the oven is heating. The actual temperature in the oven cavity is displayed in the OVEN TEMP window.
BAKE TIMER 	Press to enter the BAKE time (1-minute increments).	The BAKE TIMER window displays the amount of time for the current baking cycle. The minutes set are the left two digits and minutes remaining are the right two digits. The windows can be set to display hours and minutes remaining. The ON light is lit when bake time is active. See Customized Operation to configure this setting.
STEAM TIMER 	Press to enter the STEAM time (5-second increments).	The STEAM TIMER window displays the amount of time set for the steam cycle. The ON light is lit when the steam system is active.
AIRFLOW DELAY 	Press to enter the DELAY time (1-minute increments).	The DELAY TIMER window displays the amount of time set for the circulation blower delay cycle.
	Press to start the BAKE TIMER.	The ON light blinks when the BAKE TIMER is active.

Control Guide - Advanced (cont)

Button	Action	Display
STOP	Press to stop the BAKE TIMER or silence the beeper after the BAKE TIMER has timed out.	The ON light is off when the BAKE TIMER is inactive.
PROGRAM ▲▼	Press to select bake program.	The PROGRAM window displays the number of the current program.
STEP ▲	Press to select one of four baking steps.	The corresponding indicator light will be lit (1 to 4), depending on which step is selected.
○ VENT	Press to open or close the vent.	The indicator light above the VENT button is lit when the vent cycle is enabled.

Auto On/Off Timer

Timer Settings

The Auto ON/OFF Timer display shows the current time of day. To adjust time, press the arrow buttons.

The oven can be set to turn itself on and off. After the Auto ON/OFF Timer is set, the POWER ON OFF button can be pressed to turn the oven off. This will not disrupt the AUTO ON/OFF setting. Electrical power to the oven must remain on.

1. To set the oven to turn on, press and *hold* the AUTO ON TIME button. The previously entered start time will appear in the display. Use the UP and DOWN arrows to adjust the start time. Then release the AUTO ON TIME button.
2. To set the oven to turn off, press and *hold* the AUTO OFF TIME button. The previously entered end time will appear in the display. Use the UP and DOWN arrows to adjust the end time. Then release the AUTO ON TIME button.
3. To enable the automatic start, press and *hold* the TIMER ON/OFF button until the indicator LED to the right of the TIMER ON/OFF button is illuminated.

Backup Battery

The clock is backed up by a lithium battery which keeps the clock circuitry operating when all external power is off. If the battery becomes low or dead while the external power is off, the display will read 12:00 (12 hr mode) or 0:00 (24 hr mode) and will not increment until a new time is set. The clock will operate with a dead or missing battery, but must be set each time external power is turned on. Batteries should be replaced when low or dead to avoid corrosive damage to the circuitry. Contact your local Hobart Bakery Systems service office.

Oven Preheat

For best results, the oven must be preheated to bake temperature before baking begins.

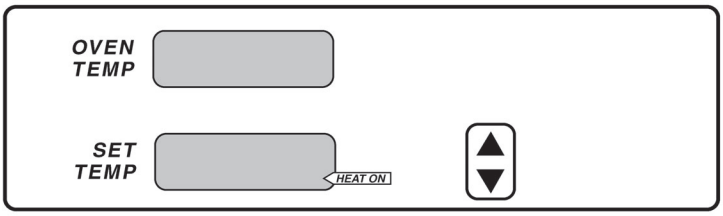
1. The door must be closed for oven to heat. The rack carrier will lift and rotate only during timed bake.

NOTE: The rack carrier will be in the unload position from the last bake.

2. Press the POWER ON OFF button to turn the oven on.



3. Press the UP or DOWN arrows next to the SET TEMP window to enter the desired baking temperature. Actual temperature of the oven will appear in the OVEN TEMP window.



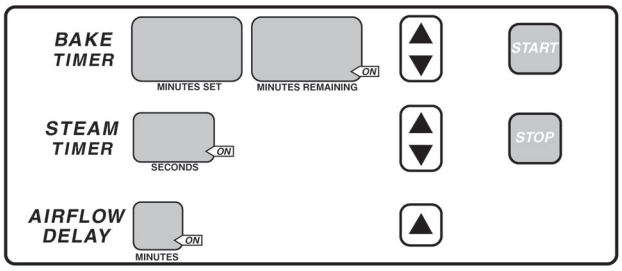
4. Allow 50 minutes after the oven has reached the set temperature for the steam system to charge.
5. The oven is now ready for baking operations.

Basic Operation

WARNING: THE OVEN AND ITS PARTS ARE HOT. TO PREVENT BURNS, USE HOT PADS OR PROTECTIVE MITTS WHEN LOADING OR UNLOADING THE OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

1. Preheat the oven. (See Oven Preheat) for HBA Advanced Controls.
2. Manually select baking settings:



- Press the UP or DOWN arrows next to BAKE TIMER to enter the desired value.
- Press the UP or DOWN arrows next to STEAM TIMER to enter the desired value.
- Press the UP arrow next to AIRFLOW DELAY to enter the desired value.
- The steam and airflow delay settings are optional and can be left at 0 if desired.

3. Slowly open the door and load product.
4. Close the door and press the START button. The ON light in the BAKE TIMER window blinks as the timer counts down.
5. Rack lifts from floor and rotates clockwise.
6. The oven beeps after the BAKE TIMER times out. Press STOP to silence the beeper.
7. Open door. Allow rack carrier to stop and lower . Remove product

Loading Procedure

1. The rack carrier is equipped with a stop on both ends. For B lifts, ensure stop flap is in the up position to load the rack on the rack carrier. For C lifts, push rack stop to the left after rack is loaded.
2. Roll the rack into the oven so the end brackets channel onto the rack carrier.
3. Close the loading door. The rack carrier will lift and rotate only during timed bake.

Unloading Procedure

WARNING: THE OVEN AND ITS PARTS ARE HOT. TO PREVENT BURNS, USE HOT PADS OR PROTECTIVE MITTS WHEN LOADING OR UNLOADING THE OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

1. Press STOP or open the loading door to silence the beeper.
2. Wait for the rack carrier to stop and lower.
3. For B lifts, push the rack stop down to unload the rack from the rack carrier. For C lifts, push rack stop to the right to open.
4. Roll the rack from the rack carrier.
5. Close the loading door.

Operational Hints

- On the initial startup, the oven temperature will default to the factory setting of 375°F (191°C) unless changed.
- During a baking cycle, the START and STOP buttons control the BAKE, STEAM and AIRFLOW DELAY settings only. They have no effect on the oven heat. When the BAKE TIMER times out, the oven heat stays at the set temperature. Care should be taken not to overbake products.
- To adjust the temperature during a baking cycle, press the UP or DOWN arrows in the Oven Temp section to enter the new temperature.
- To adjust steam settings, press the corresponding arrows to enter the new values. The steam timer cannot be adjusted during bake operation.
- You can adjust the time remaining with the arrows. The set time remains unchanged unless you “0” out the remaining time.
- If the door is opened at any time during the baking cycle, the TEMP, BAKE TIME, STEAM and AIRFLOW DELAY settings will pause. Close the door to resume all functions.
- The AIRFLOW DELAY option minimizes airflow at the beginning of the baking cycle. The heat is off while the AIRFLOW DELAY is activated.
- The VENT control can provide a means of cooling down the oven. When the oven is in the OFF mode and the door is open, press the VENT button once to start or stop the circulation fan. Vent light will be lit. The fan will also stop when the door is closed or the oven is put into the ON mode. Additionally, if the oven temperature is more than 20 degrees higher than the set temperature, and the bake timer is not activated, the oven will automatically open the VENT. The VENT will remain open until the oven temperature is within 20 degrees of the set temperature.

- The oven monitors the heating system by comparing the current oven temperature to the set temperature. If a problem arises in the heating system or there is a heating system failure, both temperature displays will flash. If the problem continues, contact your authorized Hobart Bakery Systems service agency.
- To cool the oven more than 20 degrees below its current temperature; change SET TEMP to the desired new temperature, open the oven door, and press VENT. The SET TEMP display will alternate between 'COOL' and the SET TEMP until the oven has cooled. When the oven has reached the set temperature, the alarm will beep and the control will return to normal operation. Closing the oven door or pressing any control button during Cool-Down mode will also return the control to normal operation.

BACK-UP CONTROL OPERATION (OPTIONAL)

If the main control panel ceases to function properly, baking can continue with the use of the Back-up Controls, if equipped. The Back-up Controls are located behind the control door on rear wall of the component panel.

To activate the Back-up Controls, flip the toggle switch to BACK-UP position. Temperature and steam are now controlled by the thermostat dial and steam rocker switches, located on the back-up control panel. Set the thermostat dial to the desired temperature. Once the oven has reached temperature, steam can be injected by pressing and holding the steam rocker switch up to a maximum of 20 seconds. More than this will cool down the oven and steamer excessively. Venting the oven must be done manually by opening the door. The rack carrier will stop and lower when door is open. Close door after venting is complete for rack carrier to lift and resume rotating.

PROGRAMMING THE OVEN

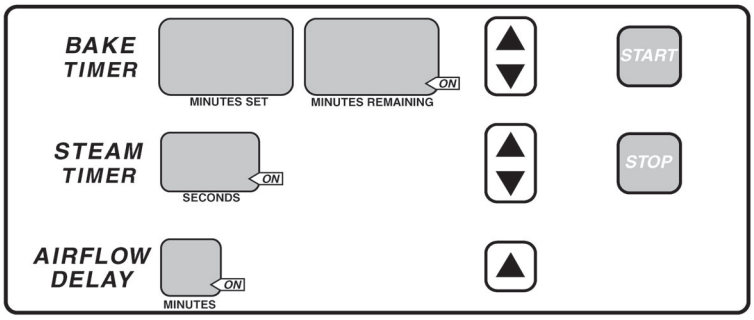
Single Step Programming

The program menu stores up to 99 programs that can be recalled by number when needed. A program is a set of baking instructions (temperature, bake, steam and airflow delay settings) that the operator defines for any baking operation.





1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON OFF button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed.
3. Press the TEMP UP or DOWN arrows to enter the desired temperature.



4. Set the Bake, Steam, Delay Airflow and Vent settings:
   - Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
   - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
   - Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

NOTE: Steam and airflow delay settings are optional and can be left at 0 if desired.

- Press the VENT button to vent the cavity for the entire time of the step. When step is complete, vent will close.



5. To store the program, press the PROGRAM UP or DOWN arrows to move to the next program number or press the POWER ON OFF button to exit the program mode. To store additional program settings, repeat steps 2 to 4.
6. Record program numbers, and product associated with them, on the bake card supplied with the oven.

Multi-Step Programming

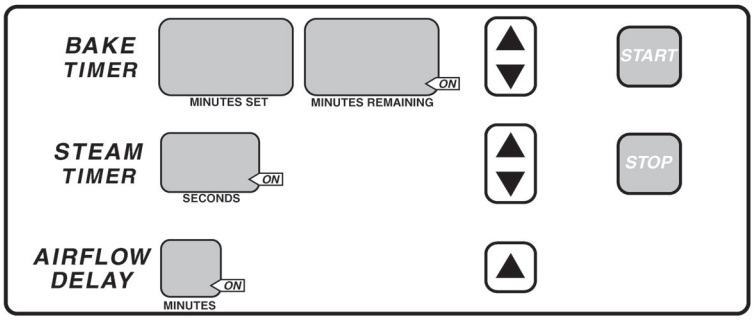
Additional programs or steps can be entered within the original program number. Up to four individual steps can be added by the operator, each with different bake settings.

For example, Program 1 has temperature, bake, steam and delay time settings set by the operator. This is known as Step 1. After the timer times out in Step 1, the oven automatically starts the programmed bake settings in Step 2. The system continues with each step until all steps have been timed out.





1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON OFF button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed. The Step 1 light is lit.
3. Press the TEMP UP or DOWN arrows to enter the desired temperature.



4. Set the Bake, Steam, Delay Airflow and Vent settings:
   - Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
   - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
   - Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

NOTE: The steam and airflow delay settings are optional and can be left at 0 if desired.

- Press the VENT button to vent the cavity for the entire time of the step. When step is complete, vent will close.



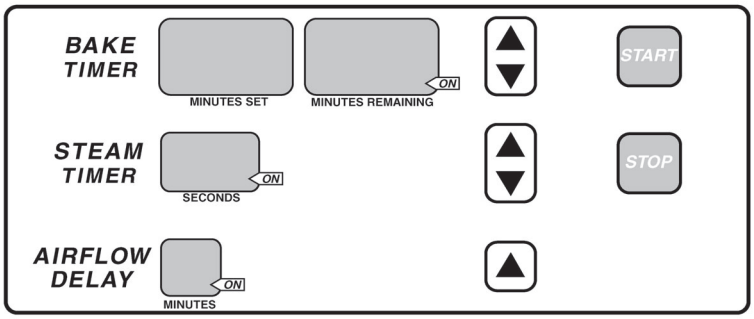
5. Press the UP arrow in the STEPS section to advance to the next step within the program. The selected step light is lit. Repeat steps 3 and 4 above to set each step, if needed, in the program.
6. To store all the steps in the program, press the PROGRAM UP or DOWN arrows to move to the next program number, or press the POWER ON OFF button to exit the program mode.

Changing the Programs





1. With the oven in the OFF mode, press and hold the UP arrow in the STEPS section. While pressing and holding the UP arrow, press the POWER ON button for 3 seconds. When the beep sounds, the oven is in program mode.
2. Press the PROGRAM UP or DOWN arrows until the program number that is desired is displayed.



3. Enter the new Bake, Steam and Delay Airflow settings:
    - Press the UP or DOWN arrows next to BAKE TIMER to enter the desired time.
    - Press the UP or DOWN arrows next to STEAM TIMER to enter the desired time.
    - Press the UP arrow next to AIRFLOW DELAY to enter the desired time.

NOTE: The steam and airflow delay settings are optional and can be left at 0 if desired.

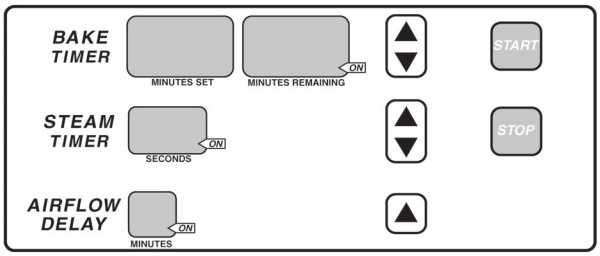


4. To change the settings in a Step, press the UP arrow in the STEPS section and make changes in each step accordingly.
5. To store the program, press the PROGRAM UP or DOWN arrows to move to the next program number or press the POWER ON OFF button to exit the program mode.

Using the Programs

1. Press the PROGRAM UP or DOWN arrows to select the desired program number (1-99). The TEMP, BAKE, STEAM and AIRFLOW DELAY settings are displayed.





2. Confirm that the oven is at the set baking temperature.
3. Slowly open the doors. Wait for the rack lifting device to come to a stop.
4. Roll the rack into the oven so the end brackets channel onto the rack lifting carrier. (See Loading Procedure.)
5. Close and latch the door.
6. Press START. A beeper will sound after the BAKE TIMER times out. Press STOP to silence the beeper.

Program Hints

- The oven defaults to the Program 0 settings when first turned on. Program 0 settings are as follows: Temp = 375°F, Bake Timer = 0, Steam Timer = 0, Delay Timer = 0, Program = 0.
- Any combination of bake settings can be manually entered for one-time custom baking operations. These settings are not saved to the program memory.
- If any of the baking parameters are changed in a program before or during a bake cycle, the oven reverts to a manual program (Program 0).
- The PROGRAM UP and DOWN arrows have no effect while the bake cycle is in progress. However, if the BAKE TIMER has been stopped, either by pressing the STOP button or by opening the door, then pressing the PROGRAM UP and DOWN arrows will select a new program and cancel the baking cycle that was in progress.
- When selecting programs, the system will skip over unprogrammed numbers. For example, if Program 1 is displayed in the PROGRAM window and no programs are stored in 2, 3 and 4, then the system will skip over 2, 3 and 4. Program 5 will be the next program displayed.

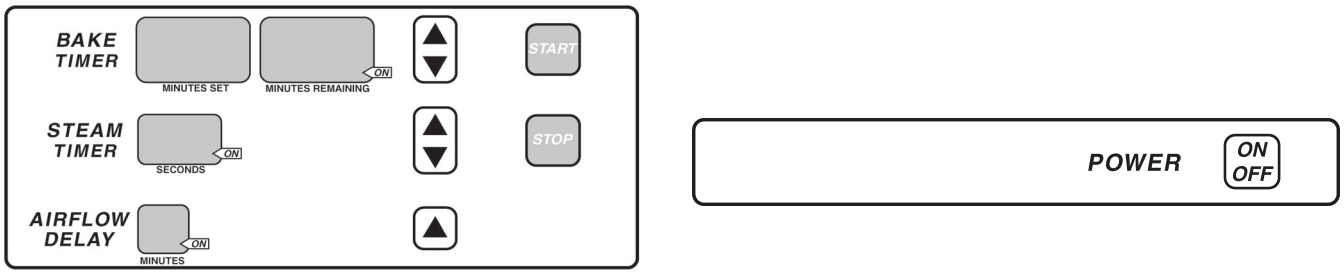
CUSTOMIZED OPERATION

The HBA oven standard and advanced controls have the capability of being customized to fit your own personal needs using the setup mode.

Before entering the setup mode, read all the instructions to make sure you are completely clear on what to do. If you need assistance, please call your authorized Hobart Bakery Systems service office.

Entering Setup Mode

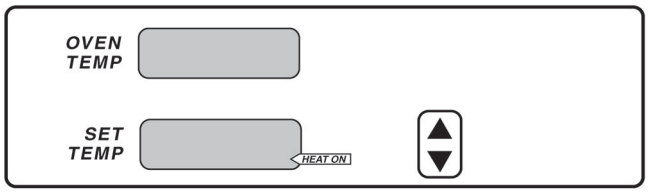
With the oven in the OFF mode, press and hold the START button. While pressing and holding the START button, press the POWER ON OFF button for 3 seconds. The oven is now in Setup mode and P1 is displayed in the SET TEMP window.

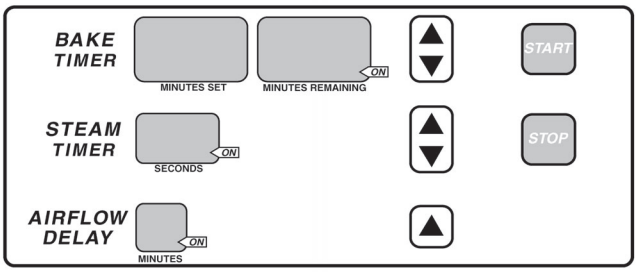


Changing Items in Setup Mode

The number in the SET TEMP window is the setup number. The BAKE TIMER window displays the setup item (the settings that can be changed).

1. To change the setup number, press the SET TEMP UP or DOWN arrows. The setup item will be displayed in the BAKE TIMER window.





2. To make a change in the setup item being displayed, press the BAKE TIMER UP or DOWN arrows. To adjust the setting, see Setup Guide. Do not attempt to change item numbers P4, P5 and P8. Consult your authorized Hobart Bakery Systems service office for help with these features.
3. To exit the setup mode, press the POWER ON OFF button.

Setup Guide

Setup Number	Setup Item	Display
P1	Maximum Temperature Setpoint	This is the maximum temperature at which the oven can be set. Range is 50°F to 525°F (10°C to 274°C).
P2	Preheat Temperature	This is the default temperature setpoint when the oven is first turned on (Program 0). The preheat temperature cannot be set higher than the value in P1. Range is 50°F to 525°F (10°C to 274°C).
P3	Minimum Temperature Setpoint	This is the minimum temperature at which the oven can be set. Range is 50°F to 200°F (10°C to 93°C).
P4	Temperature Offset	This value permits an offset of correction between the temperature probe and the real baking chamber temperature. Call your authorized Hobart Bakery Systems service agency for help with this feature.
P5	Heat OFF offset	This value adjusts the temperature difference between the set point and stopping of the heating system. Call your authorized Hobart Bakery Systems service agency for help with this feature.
P6	Heat Difference Hysteresis	This value adjusts the temperature difference between the on temperature and off temperature of the heating system. Call your authorized Hobart Bakery Systems service agency for help with this feature.
P7	Maximum Steam Time	Time set is the maximum time (in seconds) that water is supplied during the STEAM TIMER operation.
P8	Temperature Units	The oven can be set to display temperature in Fahrenheit or Celsius. To ensure accurate temperature parameters, call your authorized Hobart Bakery Systems service agency for help with this feature.
P9	Bake Timer Mode	The BAKE TIMER can be set up to display minutes set/ minutes remaining or hours and minutes. Select 0 for minutes set/minutes remaining or 1 for hours and minutes. (If this parameter is changed to hours and minutes, a label has been provided to place on the control panel to indicate the change.)
P10	Vent Evacuate Time	Time set is the time (in seconds) that the vent is 100% open at the beginning of the venting cycle. Range is 0 to 180 seconds.
P11	Vent Open Percentage	This value is the percentage the bake chamber vent is open after the vent evacuate time has expired. Range is 5 to 100%.
P12*	End of Bake Automatic Vent - Enable	This feature enables the Automatic Vent Cycle. Select 0 to enable or 1 to disable this feature (see P13 for entering time).
P13*	End of Bake Automaitc Vent Time	This is the number of minutes before the end of the bake cycle that the vent is open.

* Setup items only accessible on ovens equipped with advanced controls.

Setup Guide (cont)

Setup Number	Setup Item	Display
P14*	Steam Timer Mode	The STEAM TIMER can be set up to display in seconds or operate in food service mode. Select 0 for seconds or 1 for food service mode.
P15*	Interior Light Brightness	This value is the brightness of the interior lights. The higher the number, the brighter the lights. Range is 50 to 100.
P16*	Clock Operation	This selects either 12 hours (AM/PM) or 24 hours real time display. Press the Bake Time Up button to switch between the two types of display.
P17*	Temperature Setback Time	This selects the elapsed time from the last timed bake to when the oven will lower the oven set temperature to the value set in P18. Range is 10 to 180 minutes.
P18*	Setback Temperature	This selects the oven set temperature that the oven will change to when the temperature setback time has been exceeded in P17. Range is 50°F to 300°F (10°C to 149°C).
P19*	Lights Mode	Select 1 for lights on continuously (when oven is on) or select 0 for automatic operation. Lights will turn off automatically after 30 minutes of no user activity (door opened or closed, no buttons pushed).

* Setup items only accessible on ovens equipped with advanced controls

SHUTDOWN

NOTE: Before restarting a gas oven, power switch and gas burner valve must be off for a minimum of 5 minutes.

1. Remove all remaining product.

NOTE: Vent can be used to cool the oven.

2. Press the POWER ON OFF button.
3. Clean the baking chamber. (See Cleaning.)
4. For lengthy shutdowns, disconnect the main power and shut off the gas and water supply.

CLEANING

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

WARNING: THE RACK OVEN AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, SERVICING OR CLEANING THE RACK OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

- Allow the oven to cool.
- Clean the outside of the oven daily with a clean, damp cloth.
- Remove rack(s) and clean as you would any cooking utensil. Use warm, soapy water and a brush. Rinse with clear water and dry with a clean cloth.
- Use care when cleaning around sensitive interior parts such as probes, sensors or the rotating mechanism.
- Using a clean cloth and warm, soapy water, wash the stainless steel interior of the oven. Rinse with clear water and dry with a clean cloth.
- Gently scrape heavy buildup off door glass. Residue can be removed with a glass cleaner when oven is cool.
- Clean hood filters (if equipped) with soap and warm water.
- Do not use oven cleaners or steel wool on stainless steel surfaces. Never spray down the oven with water or steam.
- Never use cleaners that contain chlorine. Chlorine corrodes stainless steel.

MAINTENANCE

WARNING: THE RACK OVEN AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, SERVICING OR CLEANING THE OVEN.

WARNING: HOT AIR AND STEAM ARE RELEASED FROM THE OVEN INTERIOR WHEN THE LOADING DOOR IS OPENED. TO AVOID BURNS, OPEN THE DOOR SLOWLY AND KEEP CLEAR OF THE OPENING.

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

On gas ovens, annually check the flue to be sure it is free of obstructions.

GENERAL

As Needed

- Inspect the area around the oven. The area must be free and clear from combustibles. There must be no obstructions to the air flow.

Daily

- Clean Exterior (See Cleaning.)

Weekly

- Clean the oven interior and remove loose debris (See Cleaning).
- Clean the windows.
- Empty grease catcher (if equipped).

Monthly

- Clean exhaust hood filters (if equipped) with soap and water.

Bi-Monthly

- Owner Preventive Maintenance Procedure.

PREVENTIVE MAINTENANCE

The HBA Rack Oven should be kept on a regular preventive maintenance schedule. Ovens require specific preventive maintenance based on usage and environmental factors. The failure to have the oven properly maintained by following recommended preventive maintenance procedures may result in higher repair costs, shortened equipment life, or unsafe operating conditions.

The performance of routine preventive maintenance on any rack oven, which is the owner's responsibility, will help to ensure continued safe and reliable operation.

A preventive maintenance program is your best option for continued safe and reliable oven operation. We believe that Hobart Service is your best choice for performing preventive maintenance.

SERVICE AND PARTS INFORMATION

Contact your authorized Hobart Bakery Systems service office.

TROUBLESHOOTING

BURNERS WILL NOT LIGHT ON GAS OVEN

1. Check that door is shut.
2. Press the OFF button to turn the oven off and wait 5 minutes.
3. Make sure the gas shutoff valve is in the ON position.
4. Press the ON button to turn the oven back on.

If the above suggestions do not remedy the problem, contact a Hobart Bakery Systems service office.

OWNER PREVENTIVE MAINTENANCE PROCEDURE

INTRODUCTION

This customer preventive maintenance (PM) section includes procedures to inspect for proper operation and cleaning of components. Owner Preventive Maintenance Procedures are written for gas ovens. They can also be used for electric ovens by omitting the steps that refer to components found only on gas ovens. Customer PMs should be conducted bi-monthly per OSHA Bakery Oven Inspection Standard 29 CFR 1910.263(l)(9)(ii). A convenient PM Checklist is provided at the end of this section.

NOTE: This PM procedure does not discuss repair or replacement of components. Upon completion of the PM procedure you will need to contact a qualified service for any needed repairs.

Tools Used For Inspection Procedure

- Standard set of hand tools
- Vacuum cleaner - shop vac

PREVENTIVE MAINTENANCE PROCEDURE

WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

WARNING: SHUT OFF THE GAS BEFORE SERVICING THE UNIT.

WARNING: CERTAIN PROCEDURES IN THIS SECTION REQUIRE ELECTRICAL TEST OR MEASUREMENTS WHILE POWER IS APPLIED TO THE MACHINE. EXERCISE EXTREME CAUTION AT ALL TIMES. IF TEST POINTS ARE NOT EASILY ACCESSIBLE, DISCONNECT POWER AND FOLLOW LOCKOUT / TAGOUT PROCEDURES, ATTACH TEST EQUIPMENT AND REAPPLY POWER TO TEST.

Inspect Oven Lamps

1. Lamps should be on when oven is powered.
2. If not, replace lamps (Fig. 1).
   A. Remove lens cover by turning out of lamp housing.
   B. Remove oven lamp by turning lamp out of lamp socket.
3. Reverse the procedure to install new lamps.



Fig. 1

Clean and Vacuum Components and Control/Burner Compartment Area (Gas Only)

1. Clean the control/burner compartment (Fig. 2) area of dust and/or lint accumulation.
2. Vacuum the control/burner compartment floor of dust and/or lint accumulation.
3. Gain access to the top of oven and clean dust that may have accumulated on top of circulation blower motor (Fig. 3) and motor cooling fan.

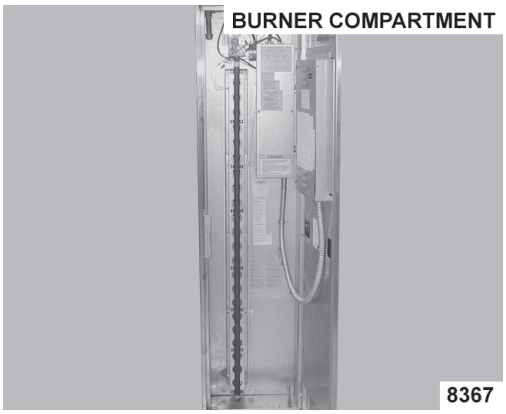


Fig. 2

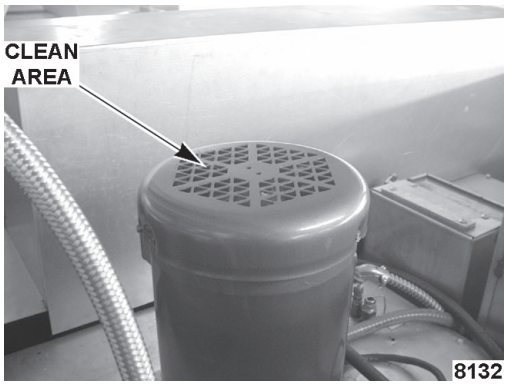


Fig. 3

Rack Lift and Rotation Assemblies

1. Check rack lift assembly for proper operation.
   A. Open door. Rack lift should lower to correct height of rack and be in forward loading position to accept rack entry.
   B. The oven rack should be easily rolled in and out of oven and the wheels completely off the oven floor when raised.
2. Tighten all set screws (4) in carrier (Fig. 4).
   A. Check and tighten all set screws on carrier.

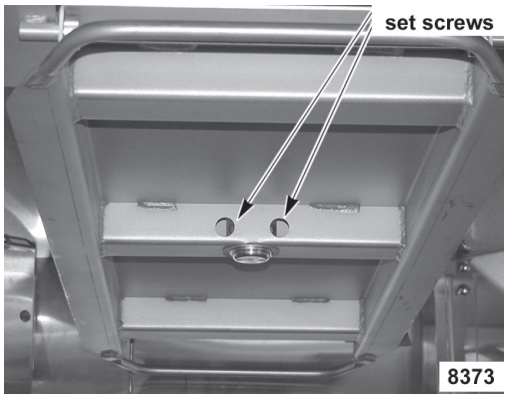


Fig. 4

Inspect Door Components

1. Check loading door latch.

   A. Check door gasket for good condition. If door gasket needs replacement, contact your local Hobart office for service.

   B. Check loading door latch. Latch must fully extend (Fig. 5) when door is closed and contacting door gasket. Leave about 1/8" gap for heat expansion.

   C. Adjust strike in or out as required by loosening one screw (Fig. 6) on each side of strike.

   D. Tighten screws.



Fig. 5

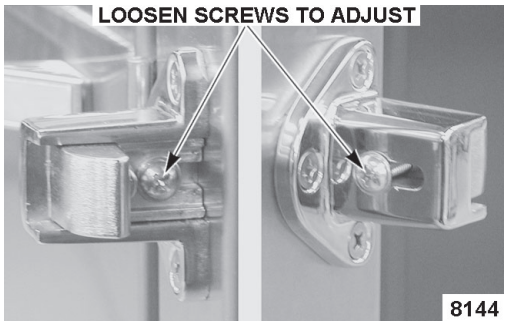


Fig. 6

2. Check door sweep.

   A. The door sweep should hit the floor approximately 1/8" evenly across door width, when door is in the closed position.

   B. Turn oven on.

   C. If air blows out from underneath the door (or steam), door will need to be adjusted. If door sweep needs replacement or adjustment, contact your local Hobart office for service.

3. Check interior door release (Fig. 7) for proper operation.

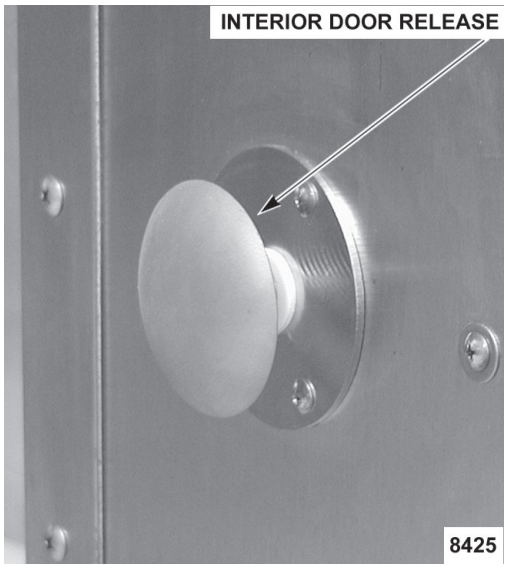


Fig. 7

4. Check door switch for proper operation.

   A. When door switch actuator rod is in the down position (door open), the rod should extend 3/8" to 7/16" from the underside of the header and easily slide up ramp as door is closed (Fig. 8). Slide ramp should be positioned as shown below. If not, re-form ramp as necessary.

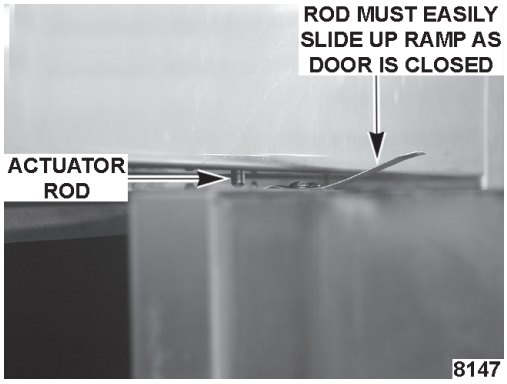


Fig. 8

Inspect Air Louvers

1. Check air louvers (shutters) (Fig. 9) inside oven and tighten any loose screws.
2. Check oven interior, tighten or replace loose or missing panel screws. Also check floor anchors.

Inspect Cavity Vent

1. Check cavity vent for proper operation.
   A. Push vent (Fig. 10) button on control panel to open vent and then push again to close vent.
   B. Visually check that vent opens (Fig. 11) and closes (Fig. 12) when button is pressed.



Fig. 9

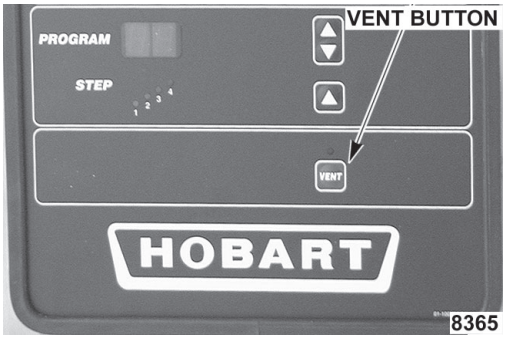


Fig. 10

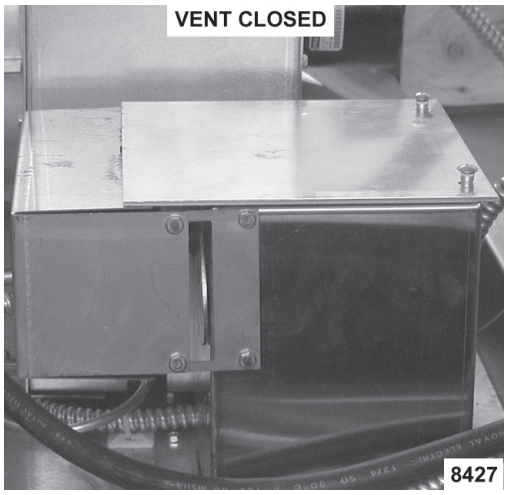


Fig. 11

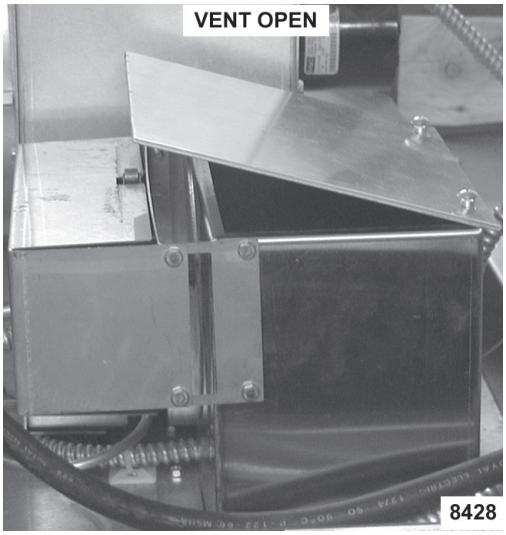


Fig. 12

Visually Inspect Electrical Connections

1. Inspect all wiring connections for discoloration. If discoloration visible, contact your local Hobart Bakery Systems service.

Verify Ignition Module Safety Lockout Functions (Gas Only)

1. Verify ignition module safety lockout functions.
   A. Turn main gas supply off to the oven.
   B. Open control panel door to gain access to burner compartment area.
   C. Turn the oven on.
   D. Set the oven to call for heat, make sure convection fan is running.
   E. Observe LED light through hole in control box cover (Fig.13), after trying to light the burner three times the module should lockout. (See chart below.)
   F. Turn main gas supply back on to the oven.
   G. Set the oven to call for heat, making sure convection fan is running and the burner has established a flame.
   H. Turn main gas supply off to the oven.
   I. Observe LED light through hole in control box cover (Fig.13), the ignition module should go into lockout. (See chart below.)

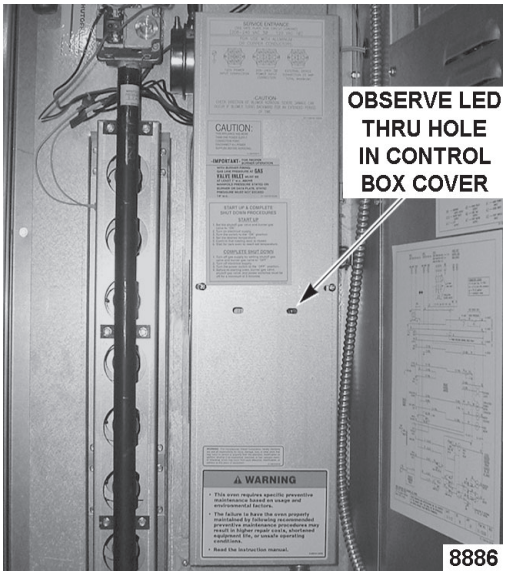


Fig. 13

LED DIAGNOSTIC INDICATOR CODES	
LED	**CODE**
LED "OFF"	No Fault
LED "ON"	Module Fault
'1' Flash	Air Flow Fault
'2' Flash	Flame Fault No Call for Heat
'3' Flash	Ignition Module Lockout

   J. If the results have been obtained, proceed to step 2.
   K. If the results have not been obtained, contact your local Hobart Systems Service office.

2. Verify hood exhaust air pressure switch (Fig. 14) operation.
   A. Set oven control to call for heat make sure convection fan is running.
   B. Disconnect tubing from exhaust vent collar, burner flame should go out.
   C. Reconnect tubing and burner should establish a flame. If not , contact your local Hobart Bakery Systems service office.

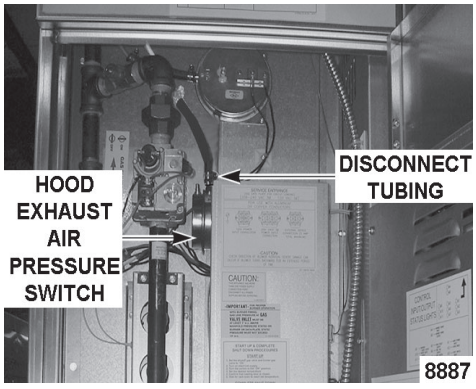


Fig. 14

3. Verify draft inducer pressure switch (Fig. 15) operation.

   A. Set oven control to call for heat make sure convection fan is running.

   B. Disconnect tubing from draft inducer pressure switch (Fig. 15), burner flame should go out.

   C. Reconnect tubing and burner should establish a flame. If not, contact your local Hobart Bakery Systems service office.

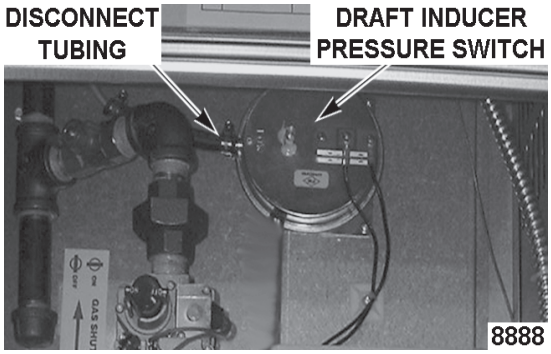


Fig. 15

Verify Operation of Steam

1. Check steam system for proper operation.

   A. Turn the water supply on.

   B. Turn oven on and set to normal bake temperature.

   C. Allow to cycle three times to stabilize temperature.

   D. Set control to call for steam.

   E. Observe operation. If steam is not observed, contact your local Hobart Bakery Systems service office.

After completion of the owner PM procedure you will need to contact a qualified servicer for any needed repairs.

Keep a copy of the Owner Preventive Maintenance Checklist for your records.

COPY AS NEEDED

MODEL/SERIAL NUMBERS

RECOMMENDED OWNER PREVENTIVE MAINTENANCE CHECKLIST

BAKERY RACK OVENS - GAS

CHECK FOR PROPER OPERATION OR CLEAN. CALL FOR SERVICE AS NECESSARY

	Inspect oven lamps														
	Clean and vacuum components and burner areas														
	Inspect rack lift and rotation assemblies														
	Inspect door components														
	Inspect air louvers														
	Inspect cavity vent														
	Visually inspect electrical connections														
	Verify ignition module safety lockout functions														
	Verify operation of steam														

√ =**PROCESS COMPLETED**

PM Frequency: ☐ **Bi-monthly**
Type of Gas **Natural Gas** _____ **Propane**_____

Location: _____ **Store No.** _____

Inspector: _____ **Date Completed:** _____

Service Notified for Necessary Repairs: _____
(Date)

Comments: _____

_____

_____

_____

_____

_____
(Inspector Signature)

NOTES