

INSTRUCTIONS

MODEL KA7E ROTARY OVENS

MODEL

KA7E

SELF-CLEANING, PASS-THROUGH

ML-137701



HOBART

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TABLE OF CONTENT

GENERAL.....	3
INSTALLATION.....	4
LOCATION.....	4
LEGS, CASTERS OR STAND ACCESSORIES	4
CONNECTION INFORMATION – GENERAL	4
Legend	4
Plumbing Connections	5
Chemical Cleaner Supply and Grease Drain Connections.....	6
Electrical Connection	7
PLACING THE ROTOR IN THE OVEN	8
OPERATION.....	9
OPERATOR CONTROLS	9
PASS-THROUGH CONTROLS	10
BEFORE FIRST USE	10
INITIAL STARTUP	11
Power On.....	11
Idle Mode.....	11
Setting the Clock	11
Changing Temperature Readings to Celsius.....	11
SAVING OR VERIFYING A COOK PROGRAM (Program 1 – 9).....	12
PROGRAMMED COOKING (Program 1 – 9).....	14
MANUAL COOKING (Program 0).....	15
HOLDING CYCLE (SILENCING THE 'END OF CYCLE' ALARM).....	16
STOPPING A CYCLE.....	16
PAUSING A CYCLE	16
ADDING COOK TIME.....	17
SNOOZING A CYCLE (SILENCING THE 'END OF CYCLE' ALARM).....	17
CLEANING THE TEMPERATURE PROBE (Optional Accessory).....	18
99 PROGRAM FEATURE.....	18
OPERATOR ID FEATURE	18
SUGGESTED ROASTING GUIDELINES.....	19
Entering Recipe Data	19
■ PREPARING, TYING & SPITTING – CHICKENS ON V-SPITS.....	20
■ SPITTING / LOADING	22
■ LOADING	23
UNLOADING ACCESSORIES FROM THE OVEN.....	24
EMPTYING THE GREASE CONTAINER.....	24
CHANGING THE CHEMICAL BOTTLE	25
AUTOMATIC CLEANING	26
WIPE DOWN	28
REPLACE DRIP STRAINERS PROPERLY	30
WIPE OFF EXTERIOR.....	30
DELIMING WITH VINEGAR	32
MAINTENANCE	33
PUMP TUBE MAINTENANCE.....	33
YEARLY CLEANING	33
TROUBLESHOOTING	36
SERVICE.....	36

Installation, Operation and Care of MODEL KA7E ROTARY OVENS

SAVE THIS MANUAL FOR FUTURE REFERENCE

GENERAL

The KA7E 'seven-spit' rotary oven provides evenly cooked, appealingly roasted product with combination convection and radiant heat.

A full view, tempered glass door is provided for loading, and an identical pass-through door is provided on the opposite side for unloading.

- Quartz lighting promotes visual appeal and stimulates customer interest.
- A stainless steel interior is provided for ease of cleaning.
- A pumped drain delivers excess fat to a grease receptacle.
- Automatic self-cleaning thoroughly washes and cleans the oven interior.
- Use only one type of accessory in the oven at any time.

KA7E ACCESSORIES

Type of Spit	Qty	Whole Chicken Capacity
V-Spit	7	21 - 28
Thermo-Wave Spit	7	21 - 28
Meat Fork Spit	7	28 - 35
5-Position Rack	7	35
4-Position Rack	7	28
Baskets	7	Hold Chicken Parts

INSTALLATION

Immediately after unpacking the oven, check for possible shipping damage. If the oven is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

Prior to installation, test the electrical service to make sure that it agrees with the specifications on the machine data plate located at the lower outside corner of the oven.

LOCATION

The oven must be installed on a level surface within 5 feet of both an open drain and a hot water supply. The installation location must allow adequate clearances for servicing and for proper operation. Suitable space is needed for the grease container and the chemical cleaner supply bottle and for access at the doors. For stacked and countertop configurations, the minimum clearance on the right side for plumbing and electrical connections is 3". For out-of-sight, drop-through utility connection into the stand accessory, 0" clearance is required on all sides. Wood laminates, veneers, etc. are unsuitable materials for use in areas exposed to self-cleaning oven, steam and detergents. The rotary oven must not be installed in high-moisture environments such as meat rooms or where high pressure cleaning is used.

LEGS, CASTERS OR STAND ACCESSORIES

A set of four 4" tall legs is available as an accessory. Casters are included with the stacking kit accessory. An oven stand accessory is available; the oven is mounted on top of the stand.

Tethering is required for units equipped with casters, either on a stand or stacked.

Refer to the Stand or Stacking Kit Instructions for additional installation information.

CONNECTION INFORMATION – GENERAL

Machine comes standard with utility connections on the right side (Figs. 1 & 2).

For out-of-sight, drop-through utility connection into the stand accessory, contact Hobart Service. A drop-through utilities relocation kit is included with the stand accessory.

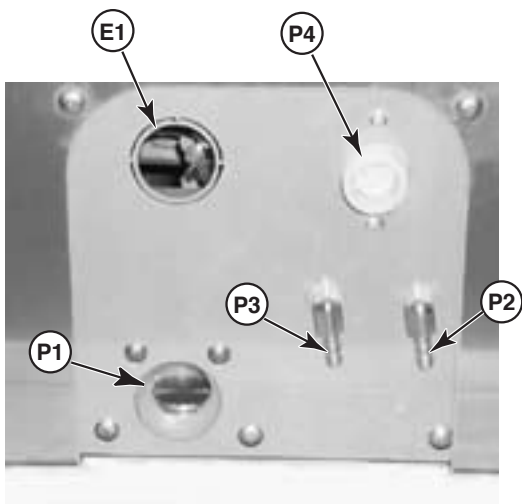


Fig. 1

Legend (Fig. 1)

E1 Electrical, page 7.

P1 Water Drain, page 5.

P2 Chemical Supply, page 6.

P3 Grease Drain, page 6.

P4 Hot Water Supply, page 5.

Plumbing Connections

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

P1 Water Drain — 1" NPT female piped to an open drain. No solid connection. Output is 140°F maximum at 5 GPM.

P4 Hot Water Supply — $\frac{3}{4}$ " male hose bib fitting. 0.5 GPM, 25 – 50 psi. For proper operation, use only **HOT** water, 120°F – 140°F. For installations at the end of a long hot water line, a second pre-rinse may be required to prime the line. Contact Hobart service to make any needed parameter changes to Cleaning cycle programming. The sensors on the machine need to see a small amount of minerals in the water in order to work properly. But, excessive minerals may cause lime scale build-up. Recommended water hardness, 4 – 6 grains. Minimum conductivity required, 30 MICROMHOS/CM.

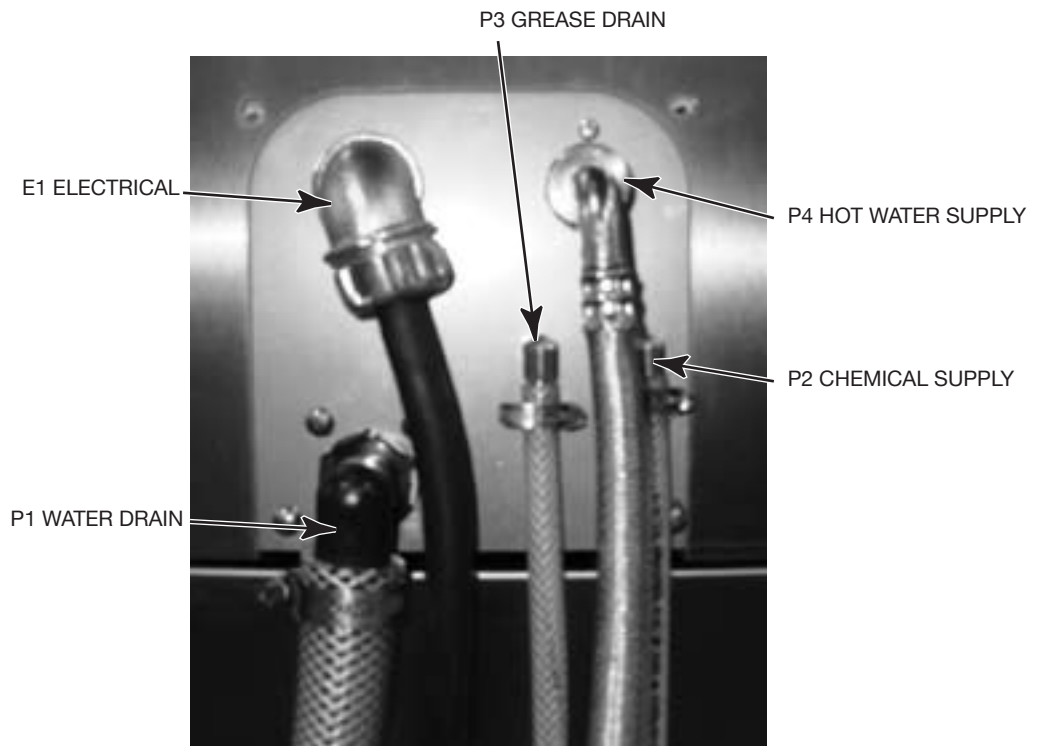


Fig. 2

Chemical Cleaner Supply and Grease Drain Connections

⚠ WARNING Oven cleaners are corrosive and can cause chemical burns. Rubber gloves, goggles and protective clothing are required. Read and follow the instructions for the oven cleaner.

P2 Chemical Cleaner Supply — Hose barb to accept 1/4" ID chemically resistant tubing, supplied with oven.

NOTE: Use only Kay Chemical CIP Cleaner or other approved cleaners for proper operation. Unapproved chemicals can cause excess foaming, poor dispensing, poor washing, poor draining and damage to seals and other components inside the oven. **DO NOT** use any chemicals in addition to the approved, self-dispensed cleaner as hazardous interactions can result.

The amount of chemical that is self-dispensed may need to be adjusted for various reasons, such as for light or heavy soil or when using alternative approved cleaners. Contact Hobart service to make any needed parameter changes to cleaning cycle programming.

Hose is 6 feet long, can be cut to suit. A #4 or #6 SST hose clamp is recommended for the tubing at the barbed fitting.

- Cut a 45° angle on the bottom end of the tubing.
- Cut a 3/4" I.D. PVC pipe, not supplied, about 18" long, with a 45° angle at each end.
- Put the angled end of the tubing inside the pipe (Fig. 3) so both angled ends extend to the bottom of the container (Fig. 4). The pipe prevents the tubing from curling inside the container and prevents suctioning against the container bottom.

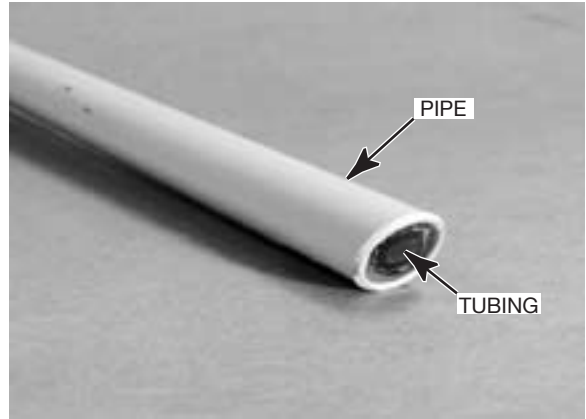


Fig. 3



Fig. 4

P3 Grease Drain — Hose barb to accept 1/4" ID high-temperature tubing supplied with machine, 212°F rated.

Hose is 6 feet long, can be cut to suit. A #4 or #6 SST hose clamp is recommended for the tubing at the barbed fitting.

- Connect the grease drain tubing to the barbed fitting, P3.
- Insert the other end of the grease drain tubing into a suitable grease vessel, not supplied, similar to the one shown in Fig. 5.



Fig. 5

Electrical Connection

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

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

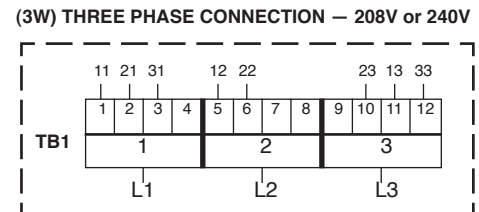
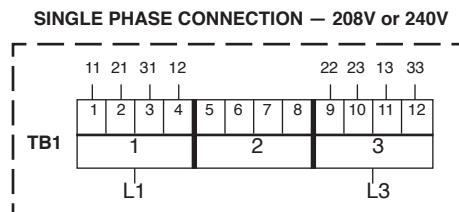
The electrical connection is E1 (Fig. 1). Make sure that the electrical power supply agrees with the specifications on the oven data plate. Refer to the wiring diagram located inside the side panel.

Connect the power supply to the terminal block as shown on the wiring diagram. Inspect and check all wiring and terminal connections for tightness and proper routing away from any moving parts or pinch points. Carefully replace side panels.

E1 – ELECTRICAL DATA

60 HZ		KA7E	
VOLTAGE	PHASE	WATTAGE	AMPERAGE
208	1	9,300	42.8
240	1	9,300	37.7
208	3	9,300	24.7
240	3	9,300	21.8

Field wire electrical connection is 1¹/₄" and/or 1¹/₂" knockout (strain relief not supplied). Stacked units must be wired independently.



PLACING THE ROTOR IN THE OVEN

⚠ WARNING Do not wrap the rotor or any other parts inside the oven with aluminum foil. Soft metals can react with oven cleaners, and hazardous interactions can result.

The rotor must properly engage with the drive mechanism. Orient the rotor so that the end plate with square drive slots is on the same side of the oven as the drive arm.

STEP 1: Stop the drive arm so it is in the down position (Fig. 6).



Fig. 6

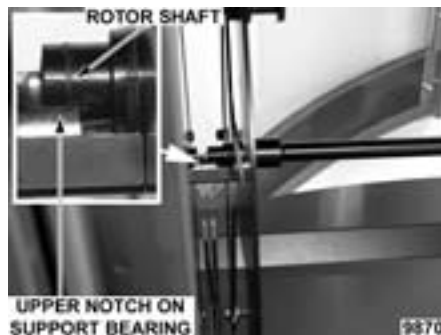


Fig. 7

STEP 2: Place the rotor shaft onto upper notch of support bearing on the non-drive side of the oven (Fig. 7).



Fig. 8

STEP 3: Place the drive side of the rotor shaft on the drive arm support notch (Fig. 8).

STEP 4: Turn the rotor, lining up the square drive slots on the rotor end plate with the pins on the drive arm (Fig. 9).

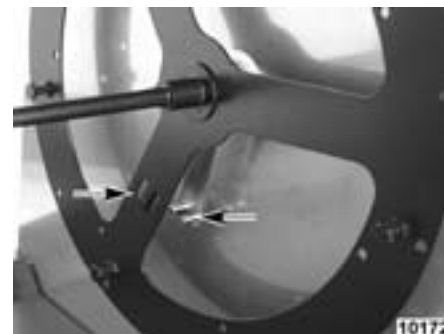


Fig. 9

STEP 5: Nudge rotor toward the drive arm. Non-drive end of rotor shaft falls into the lower portion of support bearing hub (Fig. 10). Drive end of rotor shaft is driven into center hole of drive arm.

STEP 6: Rotor is now in normal operating position (Fig. 11).

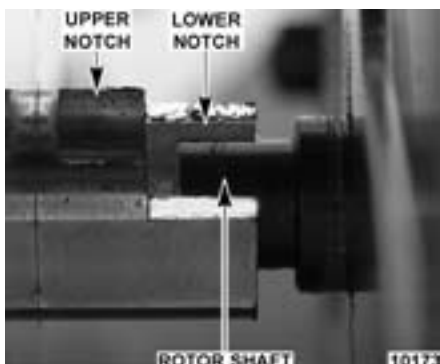


Fig. 10

MOTOR DRIVE PINS THROUGH DRIVE SLOTS ON ROTOR END PLATE

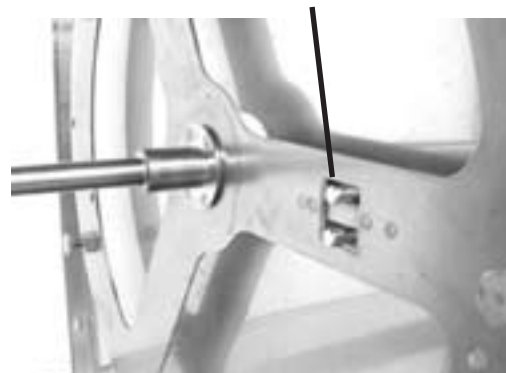


Fig. 11

OPERATION

⚠ WARNING Hot glass, grease and parts can cause burns. Use care when operating and servicing the oven.

OPERATOR CONTROLS (Fig. 12)

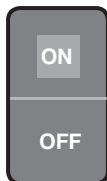
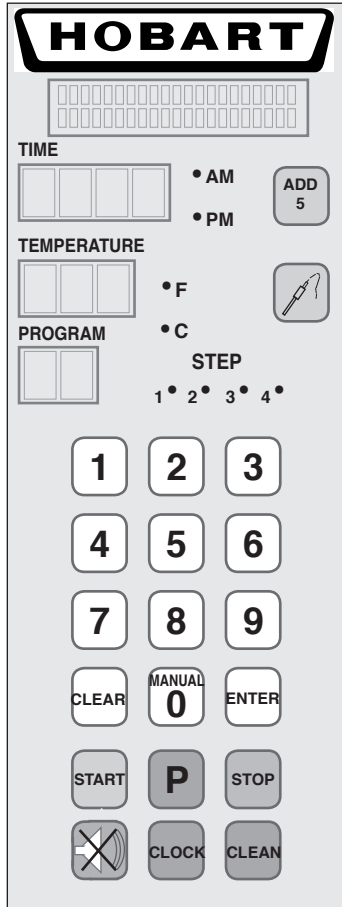
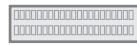


Fig. 12



MESSAGE CENTER — Provides instructions.

ADD 5 — Adds 5 minutes to the current step of the program each time it is pressed.

PROBE — Displays temperature, external meat probe.

0 - 9 — Number keys enter numeric values.

CLEAR — Clears time or temperature entry .

MANUAL 0 — Enter a MANUAL Program.

ENTER — Accepts time or temperature entry.

START — Begins cooking cycle.

PROGRAM — Enters program mode to modify a cook program; press P for 3 seconds.

STOP — Stops cycle.

SILENCE — Silences beeper.

CLOCK — Sets the clock for time of day.

CLEAN — Initiates AUTOMATIC CLEANING, refer to pages 26 – 31.

ROTATE — Rotor on/off, pauses cooking cycle; pauses cleaning cycle.

MAIN POWER SWITCH — Turns oven and controls on or off.

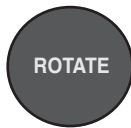
PASS-THROUGH CONTROLS (Fig. 13)



SNOOZE — Adds 10 minutes to the previous step of the program and silences the beeper. Snooze is active only when the beeper is sounding at the end of a cook cycle. Snooze is not active during the cook cycle, during Hold or after the Stop or Silence buttons have been pressed.

SILENCE — Silences the beeper.

STOP — Stops the cycle.



ROTATE — Rotor on/off, pauses cooking cycle; pauses the cleaning cycle.

Fig. 13

BEFORE FIRST USE

Oven must be burned in to release any odors that might result from heating the new oven surfaces.

1. Wipe off oven and accessories with a damp or clean soapy cloth, both inside and outside (Fig. 14). Wipe clean any soapy residue with a clean damp cloth; allow to dry.
2. Operate oven at maximum temperature setting of 482°F for 45 minutes. Smoke with an unpleasant odor will normally be given off during this burn-in period.

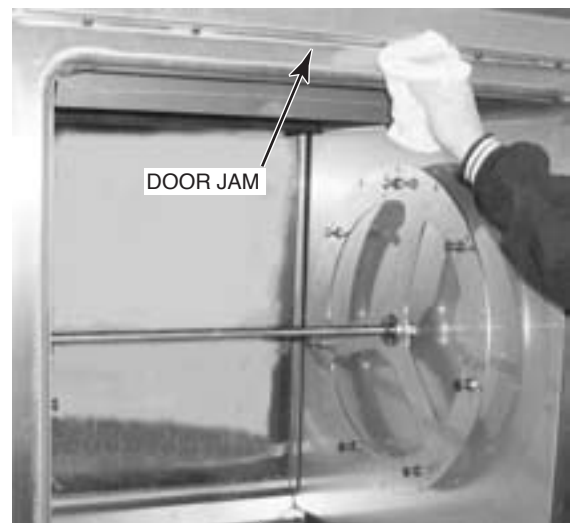


Fig. 14

INITIAL STARTUP

Power On

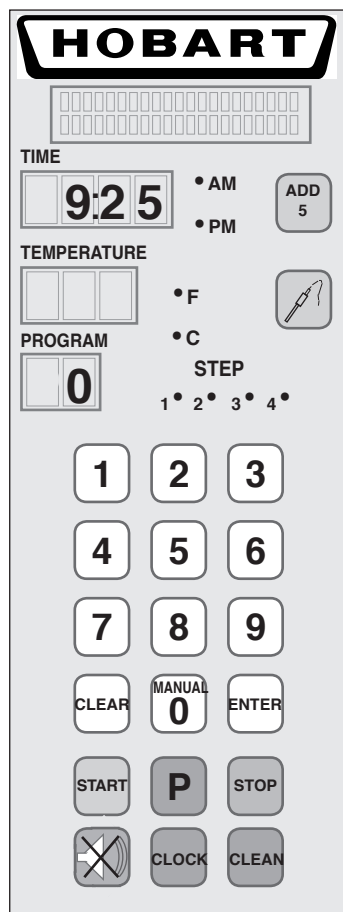
Toggle the Main Power switch on the front panel of the oven to the ON position; the red indicator light on the switch comes on (Fig. 15).

Idle Mode

When the oven is first turned on, the display shows the time of day and the last operated program number. Any programmed steps for the selected program are indicated by illuminated step LEDs. The interior oven lights are off.

Setting the Clock

The oven's clock is preset at the factory to run two 12-hour cycles for A.M. and P.M. as standard. The clock can be reprogrammed to run as a 24-hour clock by your Hobart service technician.



To set the clock, begin from idle mode.

- Press **CLOCK**.

The time display goes blank.
The AM or PM light blinks.

- Enter the time of day (HH:MM) using the number keys.
- Press **CLOCK** to toggle A.M. or P.M. (not necessary if clock is programmed for 24-hour operation).
- Press **ENTER** to accept a valid entry. The control returns to idle mode.
- If a nonvalid value such as 10:95 is in the time display when **ENTER** is pressed, the beeper sounds twice and the time display goes blank.

Changing Temperature Readings to Celsius

The oven is preprogrammed for temperatures to read in Fahrenheit degrees as standard. The oven can be reprogrammed for Celsius temperature readings by your local Hobart Service office.



Fig. 15

SAVING OR VERIFYING A COOK PROGRAM (Program 1 – 9)

EXAMPLE PROGRAM		
	Temperature	Time
Step 1	375	1:20
Step 2	425	0:05
Step 3	325	0:05
Step 4	200	HOLD

Begin from Idle Mode.

Program display shows last operated program (0 – 9).

- Select a program (1 – 9).

Program 0 is Manual Mode and cannot be saved into memory.

- Press **P** for 3 seconds to enter programming mode.

The program display shows the program/number being modified or verified (1 – 9).

Cooking 'Step 1' LED is lit.

Time display blinks.

- Enter the desired cook time from 0:01 (1 minute) to 6:00 (6 hours).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

Entering 0:00 for the time turns step 1 off and skips to step 2.

Temperature display blinks.

- Enter the desired cook temperature from 180 to 482 (degrees Fahrenheit).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

Cooking 'Step 2' LED is lit.

Time display blinks.

- Enter the desired cook time from 0:01 (1 minute) to 6:00 (6 hours).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

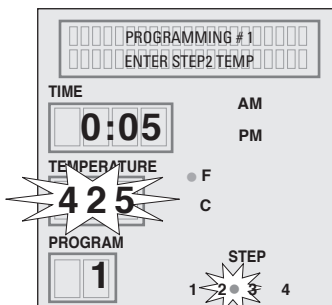
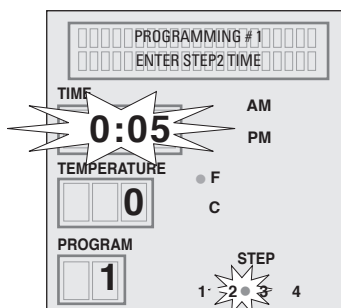
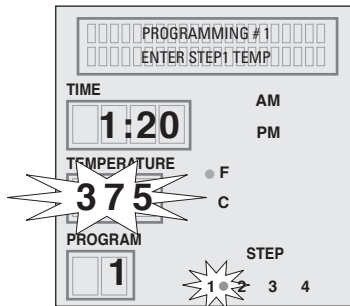
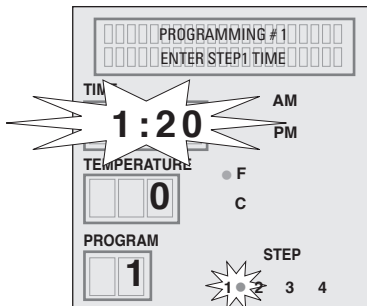
Entering 0:00 for the time turns step 2 off and skips to step 3.

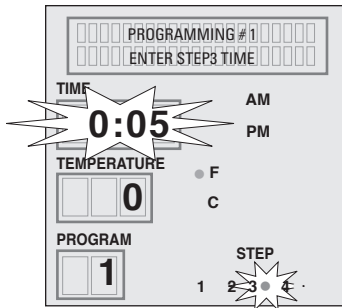
Temperature display blinks.

- Enter the desired cook temperature from 180 to 482 (degrees Fahrenheit).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.





Cooking 'Step 3' LED is lit.

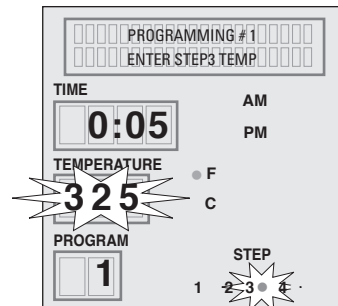
Time display blinks.

- Enter the desired cook time from 0:01 (1 minute) to 6:00 (6 hours).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

Entering 0:00 for the time turns step 3 off and skips to step 4.



Temperature display blinks.

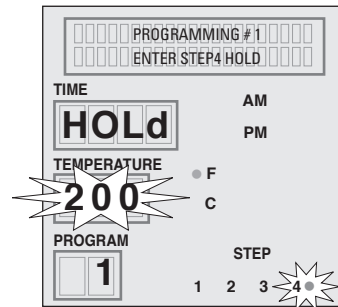
- Enter the desired cook temperature from 180 to 482 (degrees Fahrenheit).

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

HOLD 'Step 4' LED is lit.

Time displays HOLD. 'HOLD' time is infinite and cannot be set.



Temperature display blinks.

- Enter the desired Hold temperature from 140 to 230 (degrees Fahrenheit).

An invalid entry produces a double beep.

An entry of 000 for the temperature turns HOLD off.

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

The controller returns to Idle Mode, any programmed steps for the selected program are indicated by illuminated LEDs.

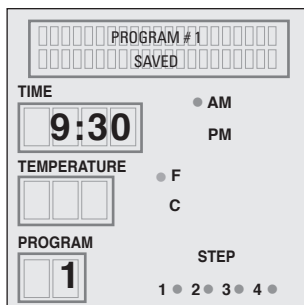
Step 1 LED is lit – indicates cook step 1 is programmed.

Step 2 LED is lit – indicates cook step 2 is programmed.

Step 3 LED is lit – indicates cook step 3 is programmed.

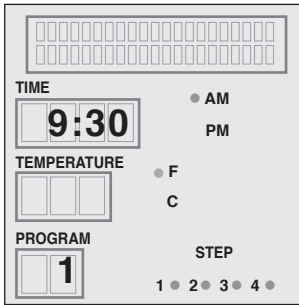
Step 4 LED is lit – indicates HOLD, step 4, is programmed.

If no Step LEDs are lit – the program is cleared.



PROGRAMMED COOKING (Program 1 – 9)

Begin from Idle Mode.



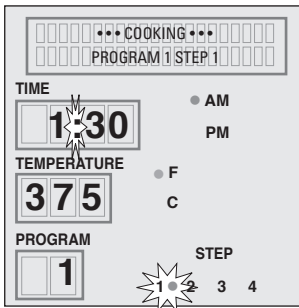
The Program display shows the last operated program (0 – 9).

- Select a saved cook program (1 – 9).

Any programmed steps for the selected program are indicated by lit step LEDs.

- Press  to run a preprogrammed cook cycle.

While running a cooking program . . .



The controller displays the number of the program in operation.

The LED for the cook step currently in process blinks.

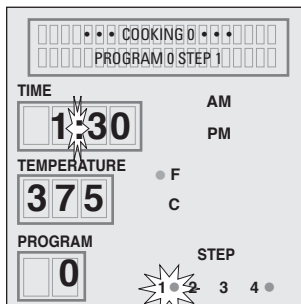
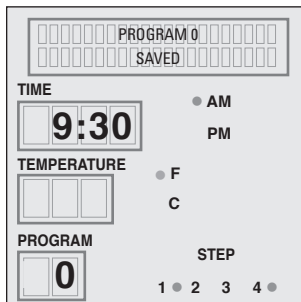
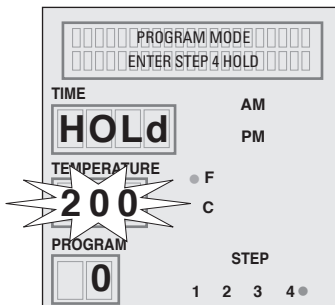
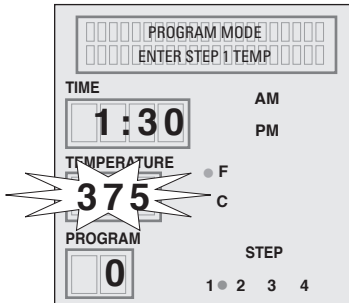
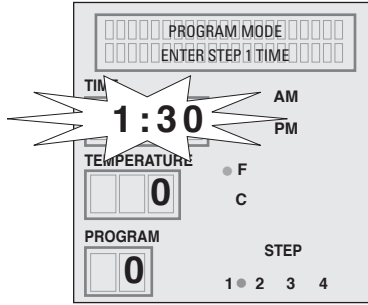
The temperature setting of the cook step in process displays.

The total combined cook time (for all programmed steps) displays. The time colon blinks to indicate time is counting down.

The oven light comes on.

Heaters and fans come on.

MANUAL COOKING (Program 0)



Begin from Idle Mode.

The Program display shows the last operated program (0 – 9).

- Select manual mode by pressing **MANUAL 0** and **ENTER**.

Cook Step 1 LED is lit. Time display blinks.

- Enter the desired cook time from 0:01 (1 minute) to 6:00 (6 hours).
- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

An entry of 0:00 for the time clears manual mode settings and returns control to idle mode.

Temperature display blinks.

- Enter the desired cook temperature from 180 to 482 (degrees Fahrenheit).
- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

HOLD, Step 4 LED, is lit. HOLD displays in the Time display.

(Steps 2 and 3 are not available in manual mode.) HOLD time is infinite and cannot be set.

Temperature display blinks.

- Enter the desired HOLD temperature from 140 to 230 degrees Fahrenheit.
- An invalid entry produces a double beep.

An entry of 000 for the temperature turns HOLD off.

- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

An invalid entry produces a double beep.

Controller returns to Idle Mode, Manual Mode 'step' LEDs are lit.

If Step 1 LED is lit — it indicates Cook only.

If Step 1 & Step 4 LEDs are lit — it indicates Cook & Hold.

If no Step LEDs are lit — it indicates Manual Mode is cleared and that no steps have been entered.

Press **START** to run Manual Cook cycle (Program 0).

While running the manual cook cycle . . .

The controller displays program number 0.

The LED for the cook step currently in process blinks.

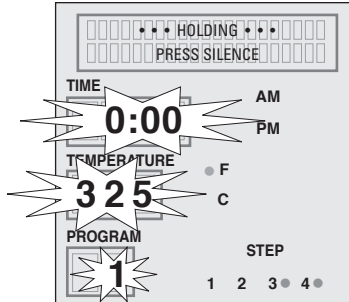
The cook temperature of the cook step in process displays.

The cook time displays and begins to count down.

Both oven lights come on (one of them cycles on and off).


Heaters and Fans come on.

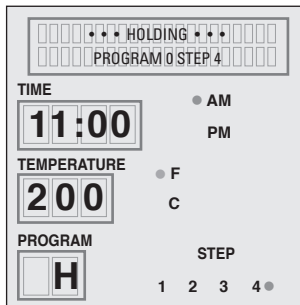
HOLDING CYCLE (SILENCING THE 'END OF CYCLE' ALARM)



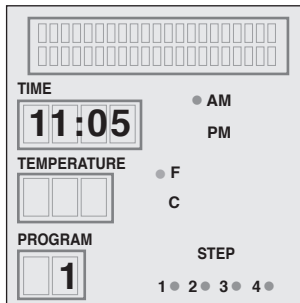
After a cook cycle has been completed, the beeper sounds and the oven automatically executes the Hold cycle (Step 4 of the cooking program).

The Hold cycle will not execute if it was programmed 'off', using Hold Temp = 000.



- Press  to silence the beeper.
- Program displays "H" to indicate that the oven is in a Hold cycle.
- The oven retains heat during a Hold cycle. Avoid overcooking by unloading when cooking is done.



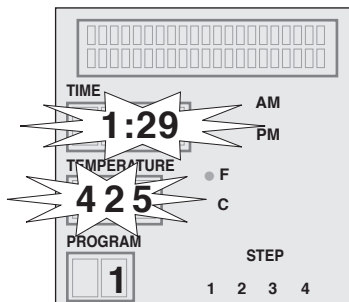
STOPPING A CYCLE



During a Cook or Hold cycle,

- Press  to stop the cycle. The light, fan and heaters turn off, and the controller returns to Idle Mode.
- If  is pressed after a cook cycle has been completed, the oven will not execute the Hold cycle.

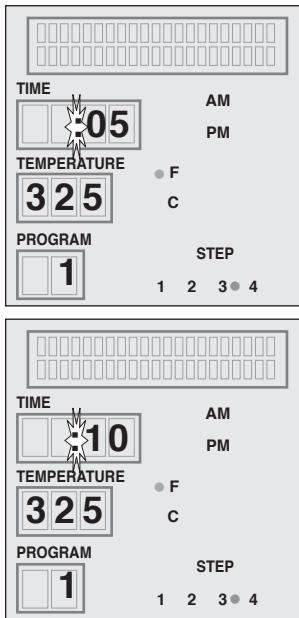
PAUSING A CYCLE



During a Cook or Hold cycle,

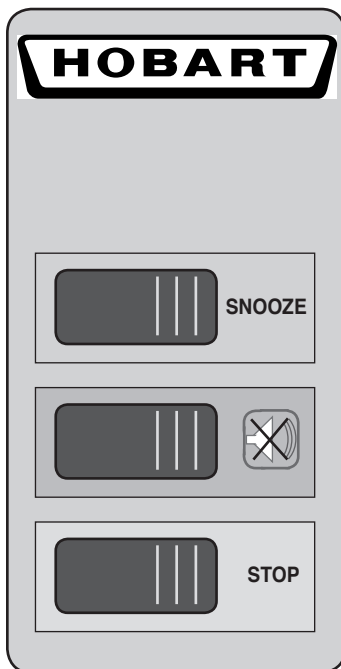
- Push the Rotate Knob to pause the cycle.
The Time and Temperature displays blink. Controller stops counting down. Heaters and Fan turn off. Interior lamp stays on.
The controller beeps a reminder alarm if the cycle has been paused for over 3 minutes.
- Push the Rotate Knob to restart a cycle.

ADDING COOK TIME



- Press **ADD 5** during a cooking cycle to add 5 minutes of cook time to the current step of the program in process. Press during the end of cycle buzzer or during Hold cycle to add 5 minutes of cook time to the last step of the last operated program. Press multiple times to add as much as desired up to a maximum total cook time of 6 hours.
- **ADD 5** is not active in Idle Mode after **STOP** has been pressed.

SNOOZING A CYCLE (SILENCING THE 'END OF CYCLE' ALARM)



After a cooking cycle has been completed, the beeper sounds and the oven automatically executes the Hold cycle (step 4 of the cooking program).

The Hold cycle will not execute if it was programmed to be "off" by setting the Hold temperature at 000.

- Press SNOOZE (Fig. 16) to silence the beeper and add 10 minutes to the previous step of the cook program.

Snooze is only active when the beeper is sounding at the end of a cooking cycle. It is not active during a cook cycle. It is not active in idle mode after STOP has been pressed. It is not active in Hold mode after SILENCE has been pressed.

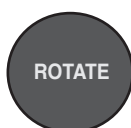


Fig. 16

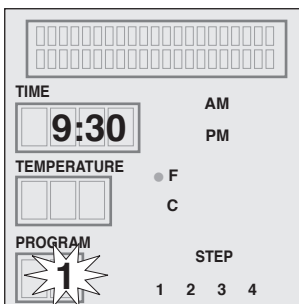
CLEANING THE TEMPERATURE PROBE (Optional Accessory)

Clean the temperature probe after every use.

1. Remove the probe from the probe holder.
2. Unplug probe cord from the probe receptacle (if needed).
3. Wipe the probe with a cloth moistened in a soap and water solution.
 - Rinse in clean water and allow to dry.
 - Dry with a soft cloth.
4. Carefully plug probe cord back into the probe receptacle (if needed).
5. Place probe back in probe holder.

99 PROGRAM FEATURE

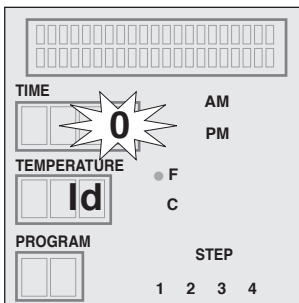
The oven is preprogrammed with 9 programs as standard. The oven can be reprogrammed to enable all 99 programs by your local Hobart Service office.



- To select a program, enter the desired program number from 0 to 99.
- Program display flashes.
- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

OPERATOR ID FEATURE

The oven is preprogrammed with Operator ID "off" as standard. The oven can be reprogrammed to enable Operator ID "on" by your local Hobart Service office.



After main power switch is toggled on. . .

Temperature displays "Id" and Time display blinks.

- Enter Operator ID number from from 0 to 9999.
- Press **ENTER** to accept (or, press **CLEAR** to void and reenter).

The control returns to idle mode.

SUGGESTED ROASTING GUIDELINES

The suggested cooking times and temperatures in the table may require adjustment for proper doneness depending on initial product temperature, weight, size, shape and other factors.

Product	Oven Temperature Setting	Cook Time HH:MM	Final Internal Temperature	Capacity KA7E
Chicken, Whole, 3.0 – 3.5 lb. (1.4 – 1.6 kg)	350 – 375 °F (177 – 195 °C)	1:10 to 1:30	180 – 185 °F (82 – 85 °C)	21 – 35

Entering Recipe Data

The recipe cards, below, are provided to allow you to pencil in your own cooking recipe(s).

PROGRAM #		
	TEMPERATURE	TIME
STEP 1	<input type="text"/>	<input type="text"/>
STEP 2	<input type="text"/>	<input type="text"/>
STEP 3	<input type="text"/>	<input type="text"/>
STEP 4 (HOLD)	<input type="text"/>	<input type="text"/>

PROGRAM #		
	TEMPERATURE	TIME
STEP 1	<input type="text"/>	<input type="text"/>
STEP 2	<input type="text"/>	<input type="text"/>
STEP 3	<input type="text"/>	<input type="text"/>
STEP 4 (HOLD)	<input type="text"/>	<input type="text"/>

PROGRAM #		
	TEMPERATURE	TIME
STEP 1	<input type="text"/>	<input type="text"/>
STEP 2	<input type="text"/>	<input type="text"/>
STEP 3	<input type="text"/>	<input type="text"/>
STEP 4 (HOLD)	<input type="text"/>	<input type="text"/>

PROGRAM #		
	TEMPERATURE	TIME
STEP 1	<input type="text"/>	<input type="text"/>
STEP 2	<input type="text"/>	<input type="text"/>
STEP 3	<input type="text"/>	<input type="text"/>
STEP 4 (HOLD)	<input type="text"/>	<input type="text"/>

■ PREPARING, TYING & SPITTING — CHICKENS ON V-SPITS

The rotary oven is not designed to roast frozen foods. Use only fresh or previously thawed product.



Bring chickens from cooler.

Check temperature — range should be from 37°F to 42°F.

Insert approved popper, if available; it will pop out when chicken is done.



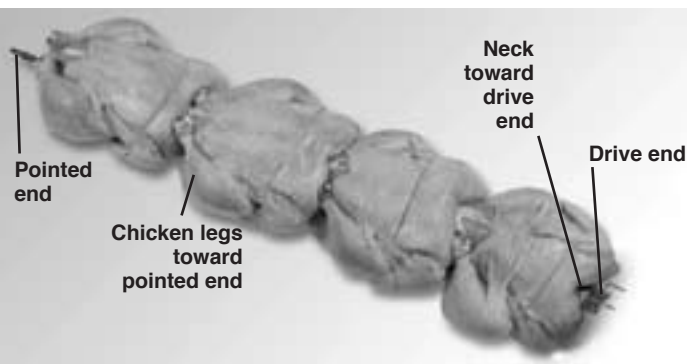
Using an approved tie, wrap around legs, pulling tie along the back, criss-cross over back.

Tie comes over front holding wings to side of chicken.



Insert V-Spit through neck first.

The flat side of spit must be parallel with breast bone. Legs and thighs on same side as breast.



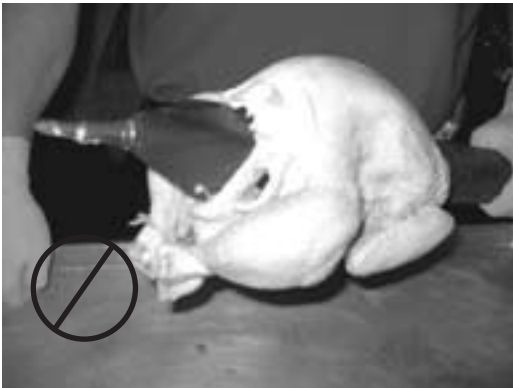
V-Spit complete with four birds ready for loading into rotisserie.

Continue until all spits are completed, all birds are properly spitted.

■ **INCORRECT SPITTING — CHICKENS ON V-SPITS**



◀ **WRONG** — Angle of spit is in line with breast. This will split the backbone and could possibly result in falling off the spit during cooking.



◀ **WRONG** — Legs and thighs are not on same side as breast. This could cause legs to fall off during cooking.



◀ **WRONG** — Legs are being inserted first. This could result in birds moving along spits during cooking.

⚠ WARNING Spits are sharp. Use care when loading product.

■ **SPITTING — CHICKENS ON FORK SPITS**

Press pointed ends of spits into whole poultry so points go through the chest-wing and leg-thigh regions (Fig. 17). Load four or five chickens on each fork spit.

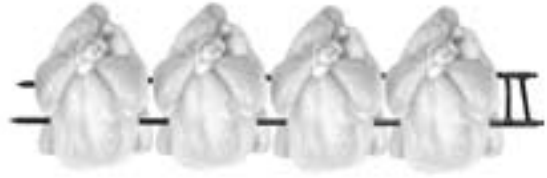


Fig. 17

■ **SPITTING — CHICKENS ON THERMO-WAVE SPITS**

After tying chickens, insert thermo-wave spit through neck first. Load three or four chickens on each thermo-wave spit.

■ **LOADING — CHICKENS ON RACKS**

Place chicken cavity over spindle, legs down, neck up and breast forward (Fig. 18). Fold and cross legs; hook leg ends under side rods of rack. Break wings at top joint; fold wings behind bird. Load four- or five-chickens per rack, depending on rack. Load seven racks.



Fig. 18

■ **LOADING — CHICKEN PIECES IN BASKETS**

Load chicken pieces in basket in any appropriate arrangement (Fig. 19).



Fig. 19

■ **LOADING ACCESSORIES ON THE ROTOR**

- Advance the Rotor as needed using the Rotate Knob, load accessory into position 1, skip position 2, load position 3, etc. (Fig. 20).
- Chickens must clear top of oven; no parts can stick out.
- Do not mix different types of accessories on the rotor at the same time.

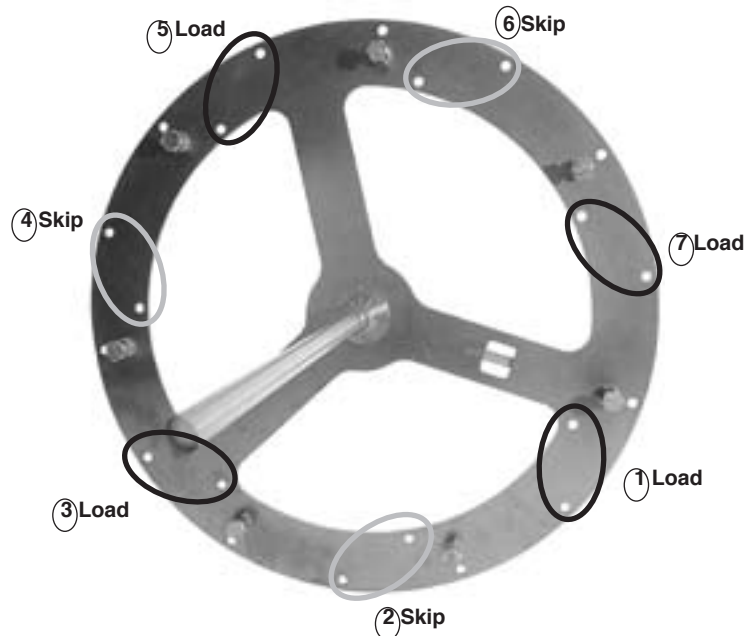


Fig. 20

■ Loading V-Spits or Thermo-Wave Spits on the Rotor

1. Place pointed end of V-spit into outside hole on non-drive side of rotor (Fig. 21).
2. Fit notched end of V-spit into appropriate holes on drive side of rotor (Fig. 22).
3. Make sure the spit is level. If the spit is not level, you might be using the wrong holes.

NON-DRIVE SIDE



Fig. 21

DRIVE SIDE



Fig. 22

■ Loading Fork Spits on the Rotor

1. Place pointed ends of fork spit into appropriate holes on the non-drive side of the rotor (Fig. 23).
2. Fit the notched end of fork spit into appropriate holes on the drive side of the rotor (Fig. 24).

NON-DRIVE SIDE



Fig. 23

DRIVE SIDE



Fig. 24

■ Loading Chicken Racks or Baskets on the Rotor

Chicken Racks and Chicken Baskets hang on studs on the left and right sides of the rotor.

1. Hang the left end of a Rack or Basket on a stud on the left side of the rotor (Fig. 25).
2. Hang the right end of the Rack or Basket on the corresponding stud on the right side of the rotor at the same height (Fig. 26). The accessory must be level.

NON-DRIVE SIDE



Fig. 25

DRIVE SIDE




Fig. 26

⚠ WARNING Hot glass, grease and parts can cause burns. Use care when operating and servicing the oven.

UNLOADING ACCESSORIES FROM THE OVEN

Opening the door does not stop the rotor, heaters or fan.

1. Press  to stop rotation and cooking. Press Rotate Knob to allow rotor to advance to unloading position. Press Rotate Knob again to stop rotation.
2. Use insulated gloves.
 - Carefully remove accessory from rotor. Remove chickens from accessory.
 - Place chickens in proper containers. Place chicken containers in warming cabinet.
3. Repeat step 1; stagger unloading by skipping past the next accessory to the following one.
4. Repeat step 2 and 3 until unloading is complete.

EMPTYING THE GREASE CONTAINER

The KA7E automatically pulses the grease pump on and off throughout the cooking cycle, draining the grease into a suitable container (not supplied, Fig. 27).

NOTE: Empty the grease container routinely — avoid overflow spills.

- Press main power switch Off.
- Remove tube.
- Empty container.
- Replace tube.



Fig. 27

CHANGING THE CHEMICAL BOTTLE

⚠ WARNING Oven cleaners are corrosive and can cause chemical burns. Rubber gloves, goggles and protective clothing are required. Read and follow the instructions for the oven cleaner.

- Remove the chemical pick-up tubing and PVC standpipe with angled ends from the empty bottle. Avoid spilling or skin contact.
- Place the full bottle of chemical in the proper location.
- Remove the cap.
- Insert the chemical pick-up tubing (inside the PVC standpipe) (Fig. 28) into the new chemical container. The angled ends on the pickup tubing and the PVC pipe enable proper suction and prevent the tubing from sitting flat on the bottom of the bottle (Fig. 29). The top of the container must be open to prevent a vacuum, thus permitting the chemical cleaner to be pumped up, into the sump.

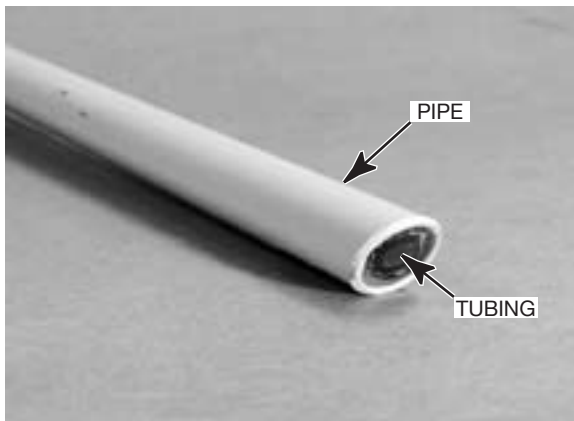


Fig. 28



Fig. 29

AUTOMATIC CLEANING

⚠ WARNING Oven cleaners are corrosive and can cause chemical burns. Rubber gloves, goggles and protective clothing are required. Read and follow the instructions for the oven cleaner.

⚠ WARNING Do not open doors during cleaning.

⚠ WARNING Do not wrap the rotor or any other parts inside the oven with aluminum foil. Soft metals can react with oven cleaners, and hazardous interactions can result.



Fig. 30

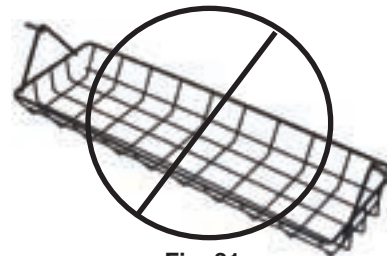


Fig. 31

NOTE: The self-cleaning oven is not intended to be a utensil washer. Remove all accessories (Fig. 31) before you press CLEAN.

1. Remove any debris, bones or pieces of skin from drip strainers (Fig. 32).
2. Make sure that the drip strainers are in their proper places so that the wash arm can rotate freely (refer to Figs. 43 – 45 on page 30). Make sure there is an adequate supply of chemical cleaner; replenish if necessary.
3. Begin from the Idle mode. The display shows the last operated cook program (0 - 9). Press **CLEAN** (Fig. 33) to initiate automatic cleaning, and step through the following operations . . .



Fig. 32

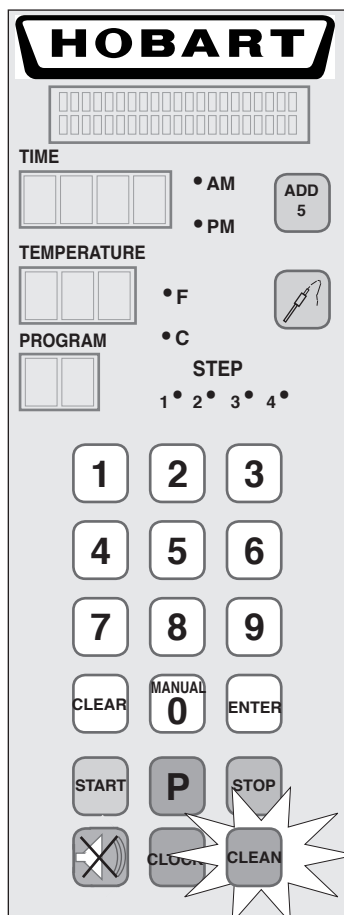


Fig. 33

Allow time needed for each cycle to complete. The automatic cleaning process requires about 2.5 hours to complete. If nothing seems to be happening, do not be alarmed. Time delays are programmed throughout the clean cycle to allow soaking and other pauses. DO NOT open the door(s).

- **CLOSE THE DOOR THEN PRESS CLEAN** ↔ **PRESS START OR CLEAN** The door is open. Close the door completely. Then press the **CLEAN** key on the keypad.
- **CLEANING PREHEATING** The oven preheats or cools down to 150°F, the best temperature for cleaning.
- **CLEANING DRAINING GREASE** Any remaining grease is pumped into the grease container. Cleaning continues on page 27.



Fig. 34

• **Pre-rinse cycle.**

- | |
|------------------------|
| CLEANING
WATER FILL |
|------------------------|

 Water is being added (Fig. 34).
- | |
|--------------------------|
| CLEANING
DEGREASE # 1 |
|--------------------------|

 The oven rinses briefly.
- | |
|-------------------------|
| CLEANING
WATER DRAIN |
|-------------------------|

 Water drains from the Pre-rinse cycle.

• **Washing and Soaking cycles.**

- | |
|------------------------|
| CLEANING
WATER FILL |
|------------------------|

 Water is being added.
- | |
|------------------------------|
| CLEANING
ADDING DETERGENT |
|------------------------------|

 Detergent is added to the water in the sump.
- | |
|---------------------|
| CLEANING
WASHING |
|---------------------|

 ↔

CLEANING SOAKING

 Water sprays for 1 minute, then turns off to allow soaking for 7 minutes. Repeat.
- Washing and Soaking cycles repeat for the next two hours.
- | |
|-------------------------|
| CLEANING
WATER DRAIN |
|-------------------------|

 The water / detergent solution from the Washing and Soaking cycles is pumped down the drain.

• **Rinse cycle, #1.**

- | |
|------------------------|
| CLEANING
WATER FILL |
|------------------------|

 Water is being added.
- | |
|-----------------------|
| CLEANING
RINSE # 1 |
|-----------------------|

 Water sprays in the oven, rinsing for a set time.
- | |
|-------------------------|
| CLEANING
WATER DRAIN |
|-------------------------|

 Water is drained from Rinse cycle #1.

• **Rinse cycle, #2.**

- | |
|------------------------|
| CLEANING
WATER FILL |
|------------------------|

 Water is being added.
- | |
|-----------------------|
| CLEANING
RINSE # 2 |
|-----------------------|

 Water sprays in the oven, rinsing for a set time.
- | |
|-------------------------|
| CLEANING
WATER DRAIN |
|-------------------------|

 Water is drained from Rinse cycle #2.

• **Drying cycle.**

- | |
|--------------------|
| CLEANING
DRYING |
|--------------------|

 The oven heats up to dry out the interior.
- | |
|----------------------------|
| CLEANING
CYCLE COMPLETE |
|----------------------------|

 Cleaning cycle is done; continue on page 28.



Fig. 35

WIPE DOWN

4. Press main power switch OFF (Fig. 35).

NOTE: Thoroughly wipe off any white chemical residue remaining in the oven, steps 5 – 10. If the residue does not wipe off readily with a clean damp cloth, a dilute solution of vinegar and water may be used. Do not use abrasives.



Fig. 36

5. Remove the drip strainers. The underneath surface of the drip strainers may also have white chemical residue or dirt. If necessary, wipe off the underside of the drip strainers with a clean damp cloth (Fig. 36). If necessary, take the drip strainers to a sink; wash and rinse them thoroughly and wipe dry with a clean cloth.



Fig. 37

6. Wipe the bottom of the sump (Fig. 37).

7. Wipe the area around the face of the door jam (Fig. 38).



Fig. 38

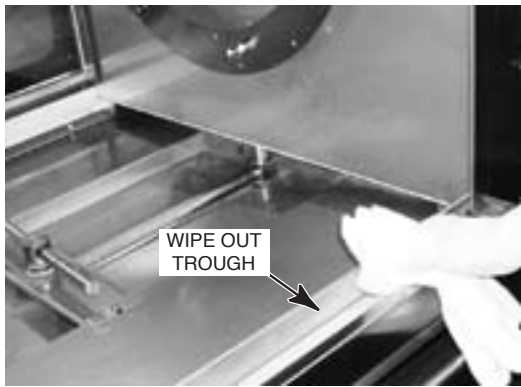


Fig. 39

8. Wipe out the trough below the door opening (Fig. 39).



Fig. 40

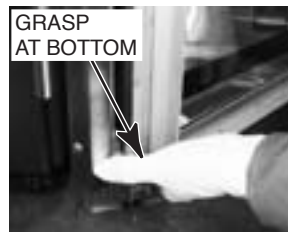


Fig. 41

9. Separate the inner and outer doors by grasping at either the upper or the lower corner (Figs. 40, 41).



Fig. 42

10. Wipe off the inside and outside glass surfaces of both glass doors (Fig. 42) on both the operator and customer sides of the oven. Wipe off wet glass with a clean dry cloth to avoid streaks. If white chemical residue is difficult to remove using water alone, use a dilute solution of vinegar and water.

REPLACE DRIP STRAINERS PROPERLY

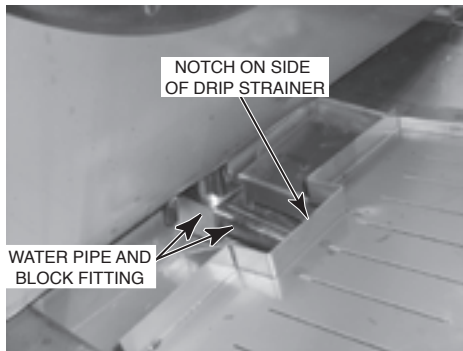


Fig. 43

11. The notch in the drip strainer must be placed around the water pipe and block fitting (Fig. 43).

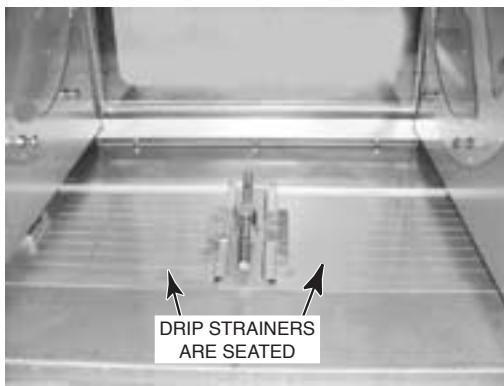


Fig. 44

12. Drip strainers must be seated (Fig. 44).

- Tabs under the drip strainer handles fit slots in the wash arm support.
- Both handles are in the middle.

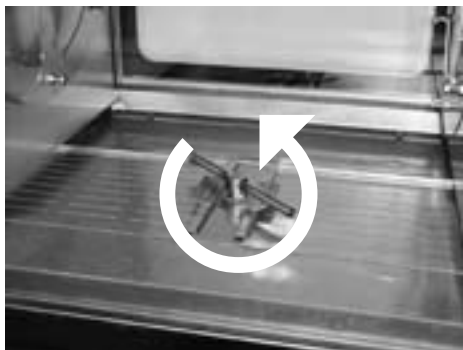


Fig. 45

13. Wash arm spins freely (Fig. 45).

WIPE OFF EXTERIOR

14. Wipe exterior stainless steel surfaces with a moist cloth, using care not to apply excess moisture to the keypad in the controls area. **Do not hose down.**

Figs. 46, 47, 48 and 49 show wrong ways to assemble the drip strainers.

WRONG ▶

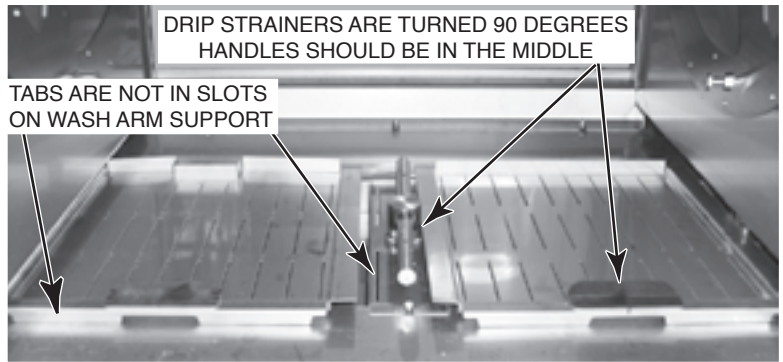


Fig. 46

WRONG ▶

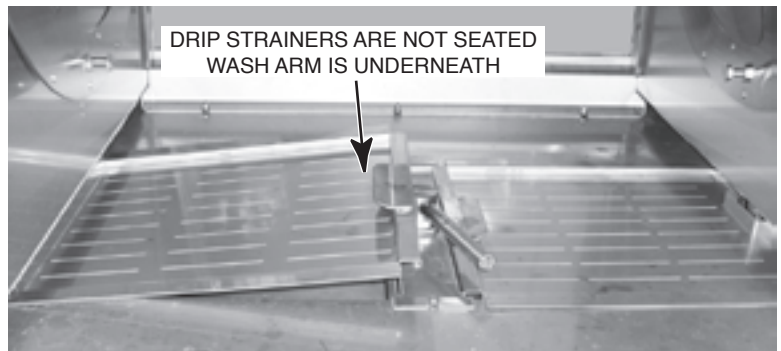


Fig. 47

WRONG ▶

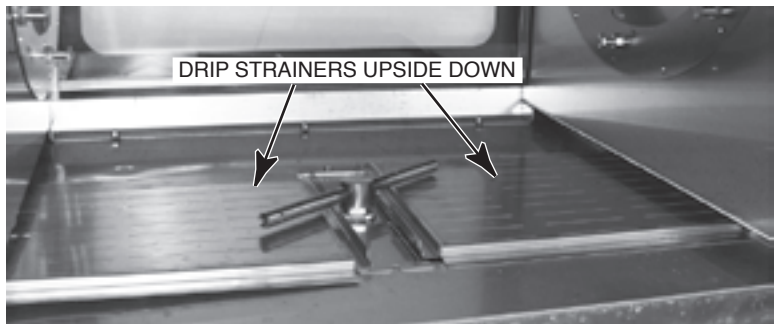


Fig. 48

WRONG ▶

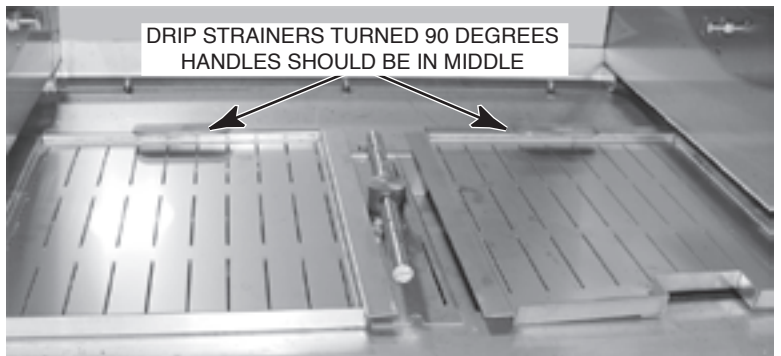


Fig. 49

DELIMITING WITH VINEGAR

Remove all accessories. The rotor can remain. Delimiting with vinegar provides a short rinse to clear out any remaining soapy residue from cleaning or chemical salts. Delimiting is recommended once a week, after an automatic cleaning cycle and after manually wiping out the oven interior (refer to pages 26 through 31).

⚠ WARNING Do not open doors during delimiting.

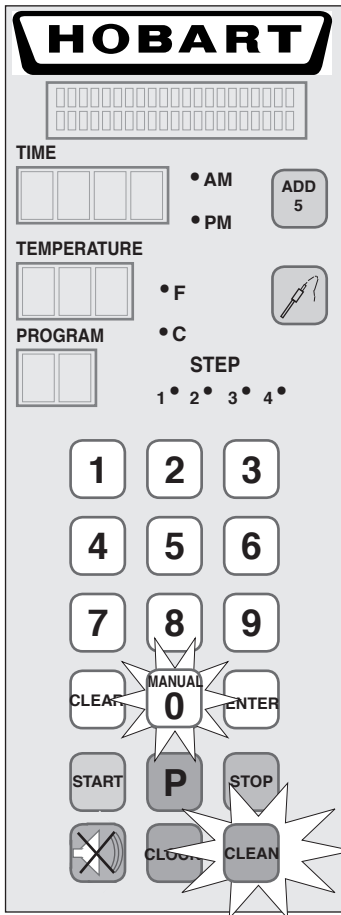


Fig. 50

1. Press the **CLEAN** key. Press the **MANUAL 0** key within 20 seconds (Fig. 50).
 - If the **MANUAL 0** key is not pressed within 20 seconds, the oven goes into AUTOMATIC CLEANING discussed on pages 26 – 31. To stop automatic cleaning, press the **STOP** key and repeat step 1.

2. **ADD DE-LIMITING AGENT** displays for 20 seconds. Open the door and add 2 quarts of vinegar to the sump. Close the door. Wait.

Washing cycle.

3. **CLEANING DE-LIMITING CYCLE** Water is added to the sump.
4. **CLEANING DE-LIMITING CYCLE** The delime cycle runs for 20 minutes (Fig. 51).
5. **CLEANING DE-LIMITING CYCLE** The vinegar and water solution drains.

Rinsing cycle.

6. **CLEANING DE-LIMITING CYCLE** Water is added to the sump.
7. **CLEANING DE-LIMITING CYCLE** Water sprays, rinsing for a set time.
8. **CLEANING DE-LIMITING CYCLE** Water drains from the rinse cycle.

Drying cycle.

9. **CLEANING DRYING** The oven heats, drying the interior for 10 minutes.
10. **SELECT PROGRAM 0 - 9** ↔ **PRESS START OR CLEAN** ↔ **DE-LIMITING CYCLE COMPLETE**
Control returns to Idle mode. Delimiting is complete.



Fig. 51

MAINTENANCE

PUMP TUBE MAINTENANCE

Pump tubing is a wear item. Contact Hobart Service to replace tubing periodically on grease pump, chemical pump and water pump to avoid leakage.

As pump tubing wears, leaks can occur. In the event of tubing leak or break, machine is designed to direct liquids to outside of oven (Fig. 52). If this condition is observed, contact Hobart service.

TUBING LEAKS ARE DIRECTED OUTSIDE OVEN

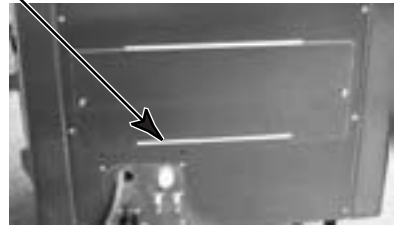


Fig. 52

YEARLY CLEANING

Wash nozzles are located between the ceiling of the oven and the upper cover to clean the convection fan and heating chamber. However, it is recommended that you inspect and clean the oven once yearly, as needed.

Clean the ceiling of the oven interior to remove potential grease build-up.

Excessive grease build-up on convection fan blade(s) and/or upper cover will decrease the oven's cooking performance over time.

NOTE: For ease of cleaning, replacement fan blade(s) are available from Hobart Service.

1. Open the door. Make sure that the drive arm is in the downward position (Fig. 53). Press OFF.

⚠ WARNING Disconnect electrical power supply to the machine and follow lockout / tagout procedures before cleaning or servicing.

⚠ WARNING Hot glass, grease and parts can cause burns. Use care when operating and servicing the oven.



Fig. 53

2. Remove the rotor. Lift up on the side of the rotor opposite the drive arm. Then, lift up and out to disengage the rotor from the two drive pins on the drive arm (Fig. 54).

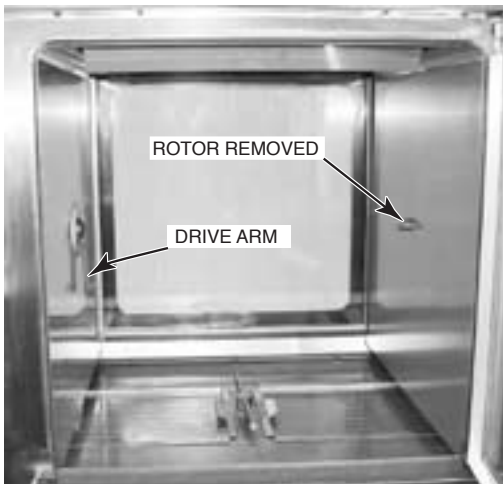


Fig. 54

3. Unscrew the acorn nut in the middle of the upper cover, inside the oven chamber (Fig. 55). Use a $7/16$ " wrench or nut driver.



Fig. 55

- To remove the upper cover from the three pins, front, and three pins, rear, grasp the front edge of the cover with both hands (Fig. 56). Press with both thumbs to release the front pins. Pull forward to escape the three pins in the rear and lower the upper cover. Manually clean the upper side of the upper cover in a sink. Rinse off both sides and wipe dry.

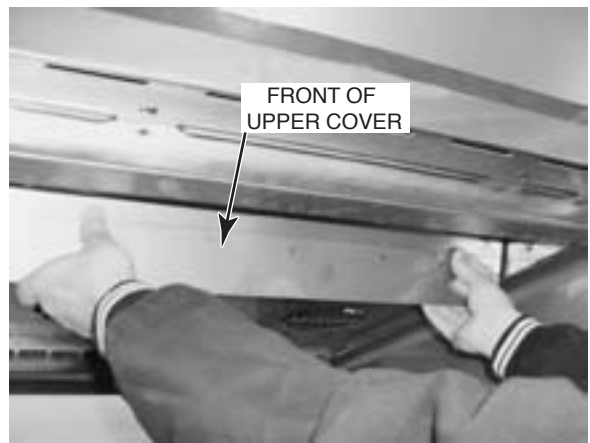


Fig. 56

- Remove both fanblades. Unscrew the center nut on each fan blade (Fig. 57). These nuts are left-hand thread.

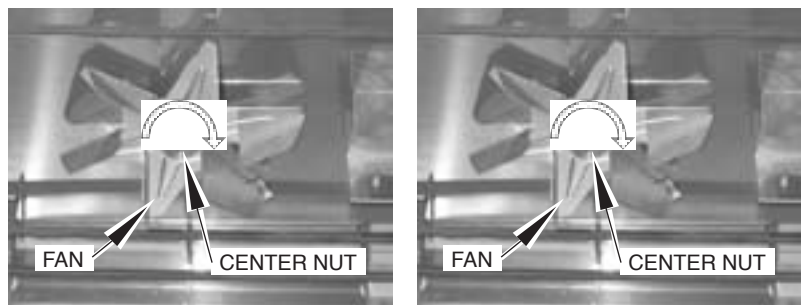


Fig. 57

- Wipe the interior ceiling around the elements and convection fan shafts of any residue using a damp or soapy cloth, as needed (Fig. 58). When clean, wipe off with a clean damp cloth.



Fig. 58

- Clean the fan blades (Fig. 59) as required to remove any residue. DO NOT bend the fan blades. Rinse and allow to dry.



Fig. 59

7. After cleaning, reinstall the two fan blades: Mate the flat side of the D-shaped hole on the fan to flat side of the D-shaped shaft. Assemble and tighten the nut counterclockwise to the shaft (Figs. 60, 61, 62). Make sure the fans rotate freely after installing.



Fig. 60

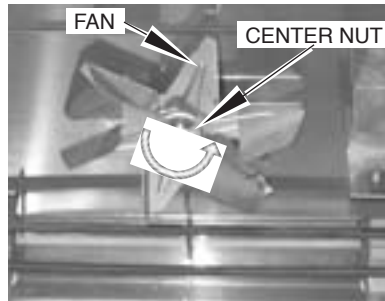


Fig. 61

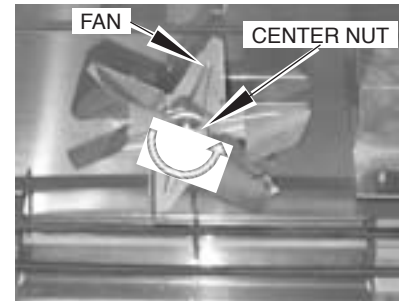


Fig. 62

8. Reinstall the upper cover. Hold the front of the upper cover with both hands. Guide the rear of the upper cover to the three pins at the rear; push to the rear so the three pins are engaged with the slots on the upper cover (Fig. 63). Lift up the front of the upper cover while pressing both thumbs in so that you engage the slots on the front of the upper cover with the three front pins (Fig. 64). Make sure all six pins are properly engaged with the slots on the upper cover.

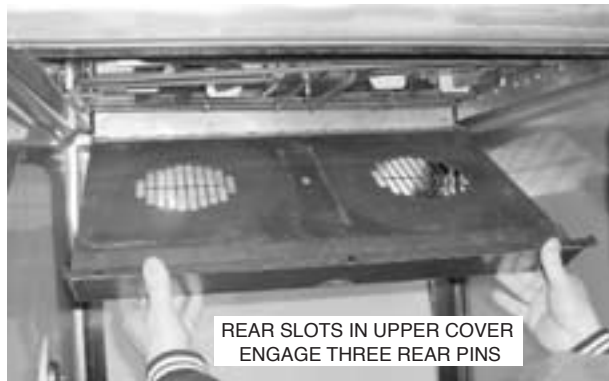


Fig. 63

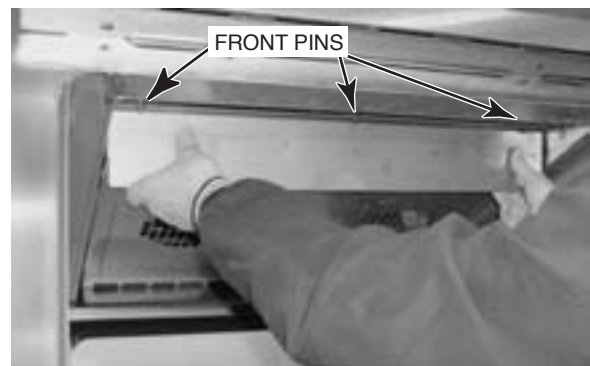


Fig. 64

9. Replace the $\frac{7}{16}$ " acorn nut in the middle of the upper cover (Fig. 65).



Fig. 65

TROUBLESHOOTING

PROBLEM	POSSIBLE RESOLUTION
Control does not light up.	<ol style="list-style-type: none"> 1. Press On-Off switch ON. 2. Electric supply is interrupted; check circuit breaker.
Cooking too slow.	Fan blade(s) and ventilation area require routine cleaning.
Water isn't spraying during wash cycle.	Wash cycle is in soak mode. Display says 'Soaking'.
Wash arm isn't turning.	Drip strainers are not in their proper place and are interfering with wash arm motion; check drip strainers.
Nothing seems to be happening after CLEAN is pressed.	Oven is cooling down or preheating to the optimum temp. for cleaning.
Oven is not clean enough after cleaning cycle is complete.	<ol style="list-style-type: none"> 1. Chemical bottle may be empty; replace with full bottle. 2. Ensure tubing is cut at an angle and that standpipe is in place to prevent tube from curling inside chemical bottle. 3. Contact Hobart service to make any needed parameter changes to cleaning cycle programming (amount of chemical or second pre-rinse cycle, etc.).
Nothing seems to be happening in Clean Mode.	Time delays are programmed between steps during clean cycle.
Oven uses too much chemical.	<ol style="list-style-type: none"> 1. Typical usage is approximately 1/2 gallon per day. 2. Contact Hobart service to make any needed parameter changes to clean cycle programming (amount of chemical or second pre-rinse cycle, etc.).
Grease or liquids are running outside the unit.	Pump tubing needs to be replaced. Contact Hobart service.

ERROR MESSAGE	POSSIBLE RESOLUTION
<div style="border: 1px solid black; padding: 2px; display: inline-block;">DOOR IS OPEN CLOSE THE DOOR</div> displays.	Close the door.
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CANNOT CONTINUE CLEANING CYCLE</div> and <div style="border: 1px solid black; padding: 2px; display: inline-block;">WATER FAIL CHECK SUPPLY</div> display alternately; a double beep sounds.	<ol style="list-style-type: none"> 1. Open the water supply valve. 2. Remove any kinks in the hose. 3. There may be low water pressure / volume. Call Hobart service.
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CHECK DETERGENT CHECK DETER PUMP</div> displays.	<ol style="list-style-type: none"> 1. Chemical bottle may be empty; replace with full bottle. 2. Ensure tubing is cut at an angle and that standpipe is in place to prevent tube from curling inside chemical bottle. 3. Pump tubing may need routine maintenance; contact Hobart service.
<div style="border: 1px solid black; padding: 2px; display: inline-block;">ATTEMPTING TO DRAIN SUMP</div> and <div style="border: 1px solid black; padding: 2px; display: inline-block;">DRAIN FAIL CHECK DRAIN, PUMP</div> display alternately.	The sump may be clogged. Call Hobart service.
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CLEANING CANCELLED</div> displays.	Occurs if "STOP" key is pressed during CLEANING. Please wait while oven cycles through two rinse cycles and the drying cycle.
<div style="border: 1px solid black; padding: 2px; display: inline-block;">INTERRUPTED CLEAN CYCLE</div> displays.	Occurs if "ON-OFF" switch is cycled during CLEANING. Please wait while oven cycles through two rinse cycles and the drying cycle.

SERVICE

Contact your local Hobart office.