

INSTRUCTIONS

MODEL HM1600 MICROWAVE OVEN

ML-114794

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FORM 33971 (10-99)

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions must be followed, including the following:

WARNING: TO REDUCE THE RISK OF BURNS, ELECTRIC SHOCK, FIRE, INJURY TO PERSONS, OR EXPOSURE TO EXCESSIVE MICROWAVE ENERGY:

1. Do not use metal utensils in this oven.
2. Read all instructions before using oven.
3. Read and follow the “Precautions to Avoid Possible Exposure to Excessive Microwave Energy” on the next page.
4. This microwave oven must be grounded. Connect only to a properly grounded outlet. See Grounding Instructions, page 7.
5. Locate or install this oven only in accordance with the instructions provided.
6. Some items, such as whole eggs or sealed containers, may explode and should not be heated in this oven. Example: Closed glass jars.
7. Use this microwave oven only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this oven. This type of oven is specifically designed to heat, cook, or dry food. It is not designed for industrial or lab use.
8. As with any appliance, close supervision is necessary when used by children.
9. Do not operate this microwave oven if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
10. This microwave oven should be serviced only by qualified service personnel. Contact your local Hobart Service Office for examination, repair or adjustment.
11. Do not cover or block any openings on the microwave oven.
12. Do not use this oven outdoors. Do not use this product near water — for example, near a kitchen sink, in a wet basement, or near a swimming pool, etc.
13. Do not immerse cord or plug in water.
14. Keep cord away from heated surfaces.
15. Do not let cord hang over edge of table or counter.
16. When cleaning surfaces of the door and oven that come in contact when the door is closed, use only mild, non-abrasive soap or detergent applied with a sponge or soft cloth. Refer to Cleaning, page 19.
17. To reduce the risk of fire in the oven cavity:
    a. Do not overcook food. Carefully attend the oven if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
    b. Remove wire twist-ties from paper or plastic bags before placing the bag in the oven.
    c. If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
    d. Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.

PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE

PRECAUTIONS
TO AVOID POSSIBLE EXPOSURE
TO EXCESSIVE MICROWAVE ENERGY

1. **Do not attempt to operate this oven with the door open** since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
2. **Do not place any object** between the oven front face and the door, or allow soil or cleaner residue to accumulate on sealing surfaces.
3. **Do not operate the oven** if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the:

   a. Door (bent)

   b. Hinges and latches (broken or loosened)

   c. Door seals and sealing surfaces.
4. **The oven should not be adjusted or repaired** by anyone except properly qualified service personnel.

CAUTION

1. **Do NOT attempt to tamper with** or make any adjustments or repairs to the door, control panel housing, safety interlock switches or any other part of the oven. Do NOT remove outer panel from oven. Repairs should only be done by a qualified service person.
2. **Do NOT operate the oven when it is empty.** The microwave energy will reflect continuously throughout the oven if no food or water is present to absorb energy.
3. **If a fire occurs in the oven,** touch the STOP/RESET pad and LEAVE THE DOOR CLOSED. Disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
4. **Do NOT attempt to dry clothes,** newspapers or other materials in the oven. They may catch fire.
5. **Do NOT use recycled paper products,** as they may contain impurities which may cause sparks and/or fires.
6. **Do NOT use newspapers or paper bags** for cooking.
7. **Do NOT hit or strike control panel.** Damage to controls may occur.
8. **Pot holders may be needed** when removing food from the oven. Heat is transferred from the hot food to the container.
9. **Do NOT store flammable materials** next to, on top of, or in the oven. It could be a fire hazard.
10. **Do NOT operate the oven** without the splatter shield (located in the top of the inner cavity) in place.
11. **Do NOT slide the removable shelf** in or out when placing or removing food. This action could cause damage to the shelf or cause hot food to tip towards the operator.

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INSTALLATION, OPERATION AND CARE OF MODEL HM1600 MICROWAVE OVEN

GENERAL

Microwave heat is generated inside the food rather than being conducted through the food as in conventional methods. Time is used to control the amount of heating that occurs.

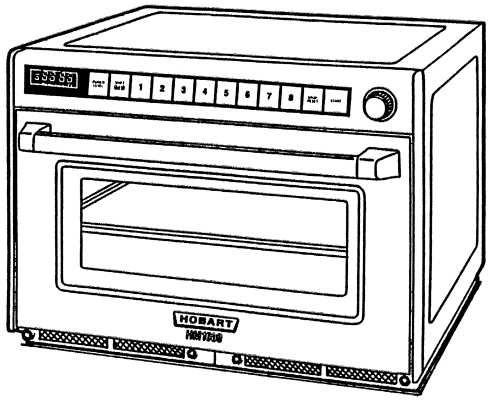
Microwave energy is absorbed in proportion to the moisture content of the food. The microwave energy causes water molecules to vibrate at high speeds resulting in friction (HEAT).

The Model HM1600 produces microwave energy in a magnetron where an electric current is changed to microwave energy by large magnets. From the magnetron, microwave energy is transmitted to the oven cavity where it is reflected, transmitted or absorbed.

Microwaves are reflected by metal (interior walls and rotating waveguides located underneath or above the floor and ceiling) which assures that the microwaves are well distributed within the oven cavity. This produces even heating or cooking of foods.

Microwaves pass through paper, glass or plastic much like sunlight shining through a window. Because these substances do not absorb or reflect microwave energy, they are ideal materials for use as food containers during microwave heating.

Microwaves penetrate the food to about $^{3}/_{4}$ to $1^{1}/_{2}$ inches deep where they excite molecules, especially water, fat and sugar. The excited molecules vibrate at a rate of 2.45 billion cycles per second which causes friction and produces heat. The internal heating of larger food volumes is done by conduction. The microwave heat produced in the outer $1^{1}/_{2}$ inches is conducted to the center of the food. Food continues to heat by conduction after microwave production has stopped. Microwaves dissipate and cannot be stored in food.



Model HM1600 Microwave Oven

Radio Interference

There is a possibility of a small amount of interference with weak broadcast signals if the microwave oven is too close to a radio or TV or similar equipment. If interference is present, it may be reduced by: 1) Cleaning the door and sealing surface of the oven; 2) Increasing the separation of the oven from the receiving device; 3) Using an antenna to obtain stronger signal reception for the receiving device.

INSTALLATION

UNPACKING

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

Removal of Protective Film

A blue protective film is used to prevent scratching of the outer case during transportation. Peel the film from the exterior of the oven before installation or use.

LOCATION

Locate the oven on a smooth, flat and stable surface. There should be no gap between the counter surface and the bottom of the oven. Do not place the oven in a hot or damp area, i.e., near a gas or electric range. The microwave oven must not be located above or next to sources of excessive heat or greasy air. Free airflow around the oven is important. There is a possibility of a small amount of interference with weak broadcast signals if the microwave oven is too close to a radio or TV.

It is recommended that the microwave oven be located so the housing can be removed for service. The housing should NOT be removed by anyone except qualified service personnel. A Hobart service technician is recommended.

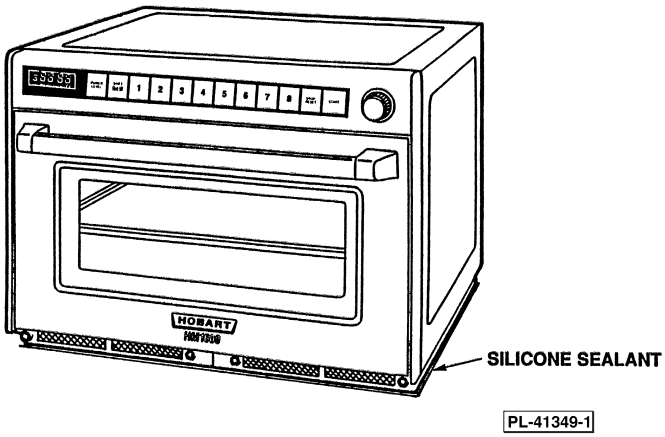


Fig. 1

Sealing the Microwave Oven to the Countertop (Fig. 1)

When the microwave oven is placed on a countertop, the base must be sealed in accordance with the National Sanitation Foundation (NSF).

Locate microwave oven on a level countertop surface. Complete the electrical connections.

Thoroughly clean the base of the microwave oven and the countertop area around the oven.

Remove the air filters.

Apply a bead of silicone sealant around the base of the microwave oven. Smooth sealant with a wet finger or tool to provide a cove seal. Use a small bead of sealant so the filters can be reinstalled. Reinstall the air filters after the silicone sealant has been allowed to cure.

ELECTRICAL CONNECTIONS

Before making electrical connections, verify that the electrical service agrees with the specifications on the data plate on the lower right side as you face the oven.

Grounding Instructions

This appliance must be grounded electrically. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be connected to an outlet that is properly installed and grounded.

WARNING: IMPROPER USE OF THE GROUNDING PLUG CAN RESULT IN A RISK OF ELECTRIC SHOCK.

Consult a qualified electrician or service person if these grounding instructions are not completely understood or if there is doubt that this appliance is properly grounded.

Have a qualified electrician install a suitable outlet near the appliance. If you must use an extension cord, use only a three-wire extension cord that has a three-blade grounding plug and a properly grounded three-slot receptacle that will accept the plug on the microwave oven. The marked rating of the extension cord MUST be equal to or greater than the electrical rating of the microwave.

The cord and plug of the Model HM1600 must be connected to a separate circuit. No other appliance should share the circuit with the microwave oven. If it does, the branch circuit fuse may overload and either cause the oven to heat slower than expected or blow the fuse.

The oven is built to operate on two different voltages (220 – 240 V or 208 V). Be sure that the voltage selector connector (on the back of the oven) is set for your power supply (Fig. 2). Using a higher voltage is dangerous and may result in overheating of the electrical components thus shortening their life expectancy or possibly causing a fire or other accident. Using a lower voltage will lower the power output of the oven, resulting in slower heating of the food. Hobart is NOT responsible for damage resulting from the use of the oven with other than specified voltage.

The oven is shipped from the factory for 208 V connection. To adjust for 220 – 240 volt operation:

- **WARNING**: UNPLUG THE POWER CORD.
- Remove the voltage adjustment cover located on the back of the oven. Do not remove any other parts from the oven.
- Remove the connector from the white socket and rotate the connector 180 degrees and plug into the black socket.
- Reattach the voltage adjustment cover to the cabinet.

208 Volt	— Plug connector into WHITE socket.
220 – 240 Volt	— Plug connector into BLACK socket.

208 / 60 / 1	— 17.0 Amp.
230 / 60 / 1	— 15.4 Amp.

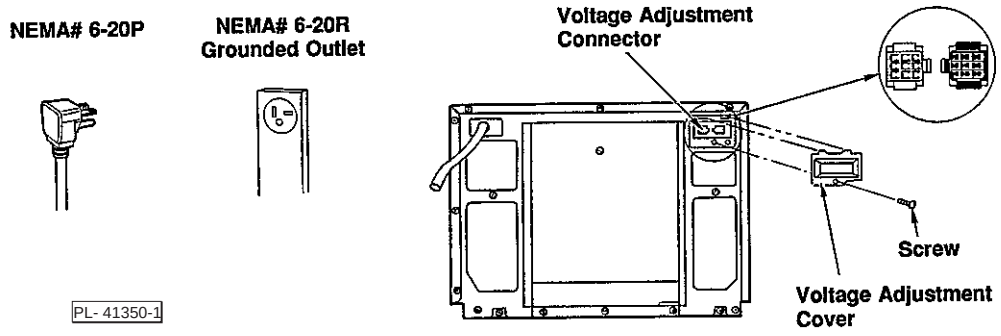
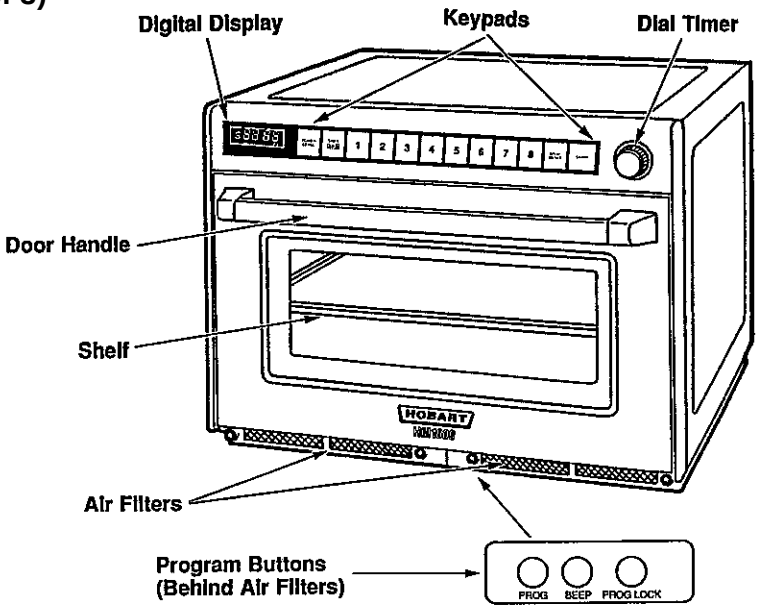


Fig. 2

OPERATION

CONTROLS (FIG. 3)



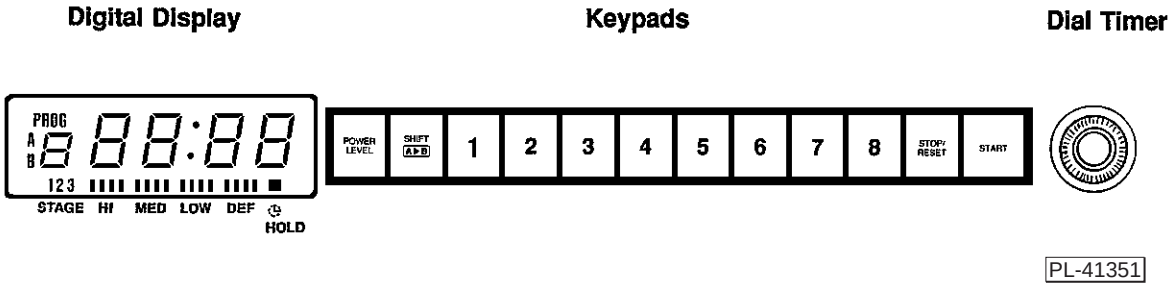


Fig. 3

POWER LEVEL — Touch the pad to change to the next power level: HI MED LOW DEF HOLD. (HOLD does not apply any microwave heating; it allows time to pass so that heat from a previous cooking stage can conduct through the product.)

SHIFT — There are 16 memory pads: A1 – A8 and B1 – B8. SHIFT selects B.

1 – 8 [A ▶ B] — Each memory pad has pre-programmed power level and time settings for 1, 2, or 3 stage cooking. Factory settings, described on the next page, may be reset by programming any memory pad. Refer to Programming Memory Pads.

STOP / RESET — Touch once to interrupt heating; touch a second time to cancel.

START — Begins a programmed cycle or a manual operation.

DIAL TIMER — Sets time for a manual operation, [Minutes:Seconds]. See Timer Range Limits on next page.

Power Level Chart (approximate values)

	HI	MED	LOW	DEF	HOLD
WATTS	1600	800	320	160	0
PERCENT	100	50	20	10	0

NOTE: Hold does not apply any microwave heating; it allows time to pass so that heat from a previous cooking stage can conduct through the product.

Factory Preset

MEMORY PADS are preset to HI power level and 1 stage cooking for these times.

Memory Pad #	A1	A2	A3	A4	A5	A6	A7	A8
Preset Time	10 sec.	20 sec.	30 sec.	45 sec.	1 min.	1 min. 15 sec.	1 min. 30 sec.	2 min.

See Pages 13 and 14 for Programming Memory Pads to other than the previous settings.

PROG LOCK button is preset on Unlock. See Page 15, Program Lock and Program Unlock.

BEEP is preset for the loudest level (#3) and for 3 Beeps. See Page 17, Programming Beep Tone.

TIMER RANGE LIMITS

Display Time	Time Range Increments
0 to 1 minute	2 seconds
1 to 3 minutes	5 seconds
3 to 5 minutes	15 seconds
5 to 10 minutes	30 seconds
10 to 30 minutes	1 minute
30 to 60 minutes	5 minutes

POWER LEVEL	Time Range Minimum	Maximum
HI	2 seconds	15 minutes
MED	2 seconds	15 minutes
LOW	2 seconds	60 minutes
DEF	2 seconds	60 minutes
HOLD	2 seconds	60 minutes

NOTES:

Display will go blank (with the door closed) after 1 minute interruption of operation or 1 minute after heating and removing food.

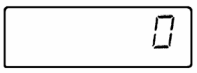
Display will flash [0] until door is opened and food is removed.

Oven light is on when you open the door and when heating starts.

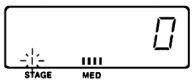
Oven light is off when you close the door or when heating is finished.

Manual Single Stage Heating

Example: Heat for 1 minute 30 seconds at MEDIUM power.



- Open the door and place the food inside the oven. Close the door. Timer display shows [0].



- Touch the POWER LEVEL pad until the indicator above MED is lit.



- Turn the Dial Timer until 1:30 is displayed.



- Touch the START pad. The cavity light comes on; heating begins. Display Time counts down. Stage number and Power level flash.



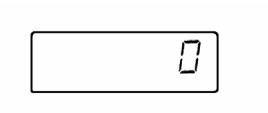
- After the time has elapsed, heat stops, BEEP sounds and [0] flashes.
- Open the door. Remove the food.



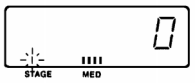
- The previously selected power and time [MED 1:30] returns. Touch STOP/RESET to cancel, or place food in oven and touch START to repeat [MED 1:30].

Manual 2 or 3 Stage Heating

Example: Heat for 1 minute 30 seconds at MEDIUM power (1st stage) and then heat for 2 minutes at DEFROST (2nd stage).



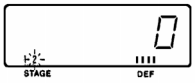
- Open the door and place food inside the oven. Close the door. The Timer display shows [0].



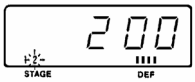
- Touch the POWER LEVEL pad until the indicator above MED is lit.



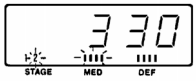
- Turn the Dial Timer until 1:30 is displayed.



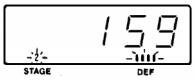
- Touch the POWER LEVEL pad until the indicator above DEF is lit.



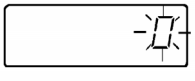
- Turn the Dial Timer until 2:00 is displayed.



- Touch the START pad. The cavity light comes on; heating begins. Total Time for both stages [3:30] displays and counts down. Stage number and Power level flash.



- When 2nd stage cooking begins, a single BEEP sounds.



- When the total time has elapsed, heating stops, BEEP sounds, and [0] will flash.
- Open the door. Remove the food.



- The previously selected power, time [3:30] and two stage indicators return to the display. Touch STOP / RESET to cancel, or place food in oven and touch START to repeat.

For 3 stage heating, select another power level and timer setting before pressing START.

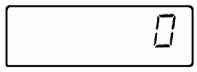
While heating, one tap on the STOP / RESET pad stops the oven. Restart by pressing START or a second tap on the STOP / RESET pad will cancel the selected program. One tap on the STOP / RESET pad before the heating cycle is started will cancel the selected program.

REPEAT the same manually selected heating program by touching START within 1 minute if the door has been closed or within 30 minutes if the door has been left open. After 1 minute of non-use with the door closed, or 30 minutes with the door open, the oven returns to standby.

Programmed Heating

Example: Microwave for 1 minute on HIGH power (1 stage heating).

Memory Pad A – 5 was preset for 1 minute on HIGH power (see Factory Preset, page 9).



- Open the door and place food inside the oven. Close the door. Timer display shows [0].



- Press memory pad 5. Display shows [1:00], indicator is lit above HI and A-5 is lit.
  - If the oven is in Program Lock mode, heating begins without pressing Start.
  - If the oven is not in Program Lock mode, press Start. Heating begins and the displayed time counts down.



- Time for 1 stage cooking counts down. Stage number and Power level flash.



- When the total time has lapsed, heating stops, BEEP sounds, and the [0] will flash.



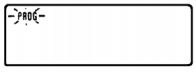
- Open the door. Remove the food. The previously selected power time [HI 1:00] and stage indicators return to the display.

For heating from programmed memory pads with 2 or 3 stage power and time settings, the operation is the same except that the oven sequentially counts down the total time. The power level and stage (1, 2 or 3) is lit as required by memory.

If you want to select a program stored in memory pad B-5, press SHIFT [A ▶ B] and then press memory pad 5.

Programming Memory Pads

Example: To program memory pad A – 5 to DEFROST for 3 minutes.

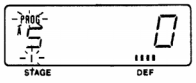


- Remove the left air filter (refer to Cleaning Air Filters for removal instructions). Press the PROG button. If no PROG indication appears in the display, Program Lock should be cancelled. Refer to Program Unlock.

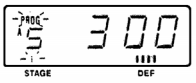


  – If you want memory pad A–5, press memory pad 5. The pad number, A–5, and the power level and time are displayed.

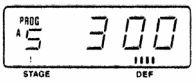
  – If you want B – 5, press SHIFT [A ▶ B] and then press memory pad 5.



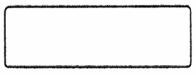
- Press the POWER LEVEL pad until the indicator above DEF is lit.



- Turn the Dial Timer to the right until [3:00] is displayed.



- Press the PROG button again. You have completed programming the selected memory pad for single stage heating.



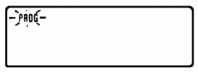
- Three seconds after programming has been completed, the display goes blank.

- Reinstall the left air filter.

Once the memory B category has been selected, you can return to memory A only by pressing the STOP / RESET button.

Programming Memory Pads for 2 or 3 Stage Heating

Example: Program memory pad A – 5 to DEFROST for 3 minutes and then to cook on HIGH power level for 2 minutes.

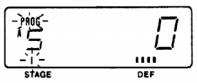


- Remove the left air filter (refer to Cleaning Air Filters for removal instructions). Press the PROG button. If no PROG indication appears in the display, Program Lock should be cancelled. Refer to Program Unlock.

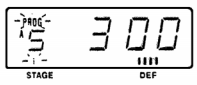


  – If you want memory pad A–5, press memory pad 5. The pad number, A–5, and the previously selected time and power level will appear in the display.

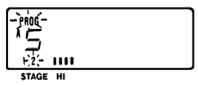
  – If you want B – 5, press SHIFT [A ▶ B] and then press memory pad 5.



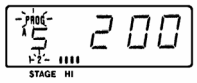
- Press the POWER LEVEL pad until the indicator above DEF is lit.



- Turn the Dial Timer to the right until [3:00] is displayed.



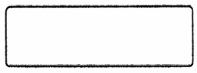
- Press the POWER LEVEL pad until the indicator above HIGH is lit.



- Turn the Dial Timer to the right until [2:00] is displayed.



- Press the PROG button again. The total time for both stages [5:00] displays. You have completed programming memory pad A – 5 for 2 stage heating.

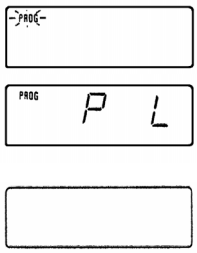


- Three seconds after programming has been completed, the display goes blank.
- Reinstall the left air filter.

For a 3 stage heating cycle, select the third power level and dial a time setting just before pressing the PROG button for the second time.

Program Lock

This feature allows you to lock the memory pads' power levels and heating times and allows one touch operation of the oven (pressing START is not required).



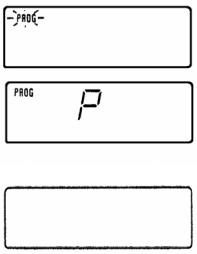
1. Remove the right air filter.
2. Press and hold in the PROG LOCK button for 5 seconds until the display shows PROG P L .

   Do not press PROG LOCK for more than 30 seconds or a false failure <code F44> may occur.
3. After 3 seconds, the display goes blank.
4. Reinstall the air filter.

When PROG LOCK is active, opening the door cancels the time remaining. The memory pads cannot be reprogrammed until PROG LOCK is deactivated. See Program Features chart.

Program Unlock

This procedure deactivates PROG LOCK, allows memory pads to be programmed and requires you to press START after selecting a memory pad.



1. Remove the right air filter.
2. Press and hold in the PROG LOCK button for 5 seconds until the display shows PROG P.

   Do not press PROG LOCK for more than 30 seconds or a false failure <code F44> may occur.
3. After 3 seconds the display goes blank.
4. Reinstall the right air filter.

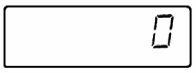
When PROG UNLOCK is active, opening the door does not cancel the time remaining. To continue, close the door and press Start. The memory pads can be reprogrammed. See Program Features chart. Beep Tone and Duration can be programmed.

Program Features		
	Auto Repeat	**Interrupt**
PROG P 'Unlocked' Manual Operation Memory Pad	 Yes* No	 Yes* Yes*
PROG P L 'Locked' Manual Operation Memory Pad	 Yes* No	 Yes* No

* Press <START> to repeat or resume.

List Memory

This feature allows you to review all memory pad power levels and heating times for all three cooking stages.

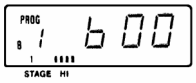


1. Open the door and leave it open.
2. While pressing STOP/RESET, press and hold in the START pad for 2 seconds.

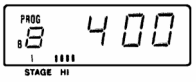


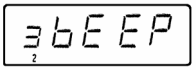
3. The display window shows all memory pads and power level and time settings for all three programmable cooking stages. You may cancel the review at any time by pressing STOP / RESET twice.



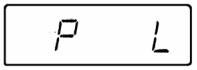


A1 1 2 3
B1 1 2 3
A2 1 2 3
B2 1 2 3
A3 1 2 3
B3 1 2 3
A4 1 2 3
B4 1 2 3
A5 1 2 3
B5 1 2 3
A6 1 2 3
B6 1 2 3
A7 1 2 3
B7 1 2 3
A8 1 2 3
B8 1 2 3

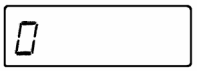




bEEP Displays the beep tone.

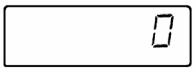


P L Displays P L for PROG LOCK or P for PROG UNLOCK.



0 Returns to 0 for standby

To review memory beginning at a particular memory pad:



1. Open the door and leave it open.



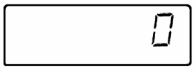
2. While pressing STOP / RESET, press and hold in the START pad for 2 seconds.



3. Press STOP / RESET.



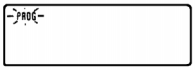
4. Press the memory pad where you want to begin review.

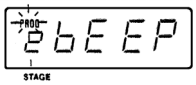


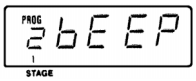
5. Press START. The sequence will proceed unless terminated by pressing STOP / RESET.

Programming Beep Tone Loudness

The Beep tone can be set at one of three levels of loudness or be silent.

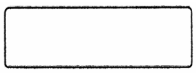






1. Remove air filters.
2. Press PROG.
3. Press BEEP (once to select 3 Loud)
   (twice to select 2 Moderate)
   (three times to select 1 Soft) or
   (four times to select 0 Silent).

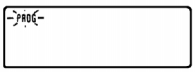
   Repeat until the tone you want is selected.
4. Press PROG.

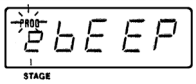


5. After 3 seconds, the display returns to standby (blank if door is closed).
6. Reinstall air filters.

Programming Beep Tone Duration

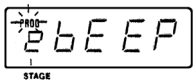
Duration of Beep can be selected from either of two settings: 3 seconds or 60 seconds.

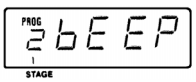




1. Remove air filters.
2. Press PROG.
3. Press BEEP (once to select 3 Loud)
   (twice to select 2 Moderate)
   (three times to select 1 Soft) or
   (four times to select 0 Silent).

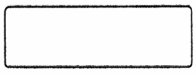
   Repeat until the tone you want is selected.





4. Press PROG and quickly press BEEP until 1 or 2 is displayed
   (1 Stage ~ 3 Beeps) or
   (2 Stage ~ 60 Beeps).

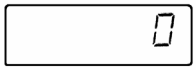
   Repeat until the Beep duration is selected.
5. Press PROG.



6. After 3 seconds, the display returns to standby (blank if door is closed).
7. Reinstall the air filters.

To Read the Cycle Counter

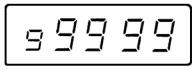
The oven can display the total number of times it has operated.



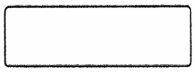
1. Remove the air filters.
2. Open the door.
3. Close the door.

Perform the next step within 60 seconds before the display goes blank.

4. While pressing BEEP, press PROG at the same time.



The display shows the cycle count.



After 3 seconds, the display goes blank. When the door is opened, 0 will display.

5. Reinstall the air filters.

Cleaning

WARNING: UNPLUG THE POWER CORD.

Keep the inside of the oven clean. If pieces of food or spilled liquids stick to the oven walls, or between the door seal and the door surface, they will absorb microwaves and may cause arcing or sparks. Wipe up all spills with a damp cloth. Kitchen detergent may be used if the oven gets very dirty. Do not use harsh detergents or abrasive cleaners.

Clean the outside surface of this microwave oven with a cloth dampened with soap and water, then dry with a soft cloth. **Caution: Make sure that water does not get into the back ventilation opening since this can damage the oven.**

Clean the window of the door with very mild soap and water. Be sure to use a soft cloth. Never use window cleaner. The door front can be scratched by harsh detergents or cleaners.

Cleaning the Air Filters

Clean the air filters occasionally according to the following instructions. Problems may occur with the oven if the filters become clogged with dirt or dust.

Caution: If the air filters become clogged with dust or grease, an overheating problem in the oven may result.

Remove the right air filter from the front bottom skirt by pulling the right pop pin straight out. Then slide the filter to the right and lift it off the post at the center. Remove the left air filter similarly.

Wash the air filters with a warm water and detergent solution.

To replace, align the filter with the center post, and holding the front of the pop pin forward, insert the back of the pin into its hole. Press the front of the pin and it will pop into place. Be sure to replace the air filters before using this oven.

MAINTENANCE

Replacing a Light Bulb

WARNING: UNPLUG THE POWER CORD BEFORE REPLACING LIGHT BULB.

If the light bulb in the oven cavity burns out, replace it with a new bulb of the same type.

- Unscrew the cavity light access cover which is located on the left side of the cabinet.
- Replace the old bulb with a new bulb (230 - 250 V / 20 W).
- Close the cavity light cover.

TROUBLESHOOTING

Failure Codes

The HM1600 Microwave monitors its operation and displays a Failure Code when a problem occurs.

<table>
<tr><th>CODE</th><th>CAUSE</th><th>WHAT TO DO</th></tr>
<tr><td>F01</td><td>• Overcooked food.
• Temperature of exhaust air too high.</td><td>• Unplug the oven to stop beep.
• Wait for oven to cool down to reset operation.
• If food ignites, do not open the door.
If normal operation does not resume, call the service agent with information of failure code.</td></tr>
<tr><td>F03

F04</td><td>• Incoming line voltage too high.
This oven is designed to operate with 208 or 220-240 Volts.
• Incoming line voltage too low.</td><td>• Check line voltage and that voltage adjustment is matched. (Refer to page 7 for power source voltage adjustment.)
Line Volt — Connector Color
208 V — White
220-240 V — Black
• If the line voltage is other than 208 or 220-240 V, consult electrician to check outlet.</td></tr>
<tr><td>F05</td><td>• Problem with Memory IC.</td><td rowspan="4">• Unplug the oven and wait more than 1 minute and reconnect.
• If normal operation does not resume, call the service agent with information of failure code.</td></tr>
<tr><td>F33-F34</td><td>• Problem with thermistor circuit.</td></tr>
<tr><td>F44</td><td>• Problem with control panel.</td></tr>
<tr><td>F81-F84
F86-F89</td><td>• Problem with relay circuit.</td></tr>
</table>

Above codes do not indicate all the possible failures on the oven.

SERVICE

Contact your local Hobart Service Office if the oven does not operate as described. Long term service contracts are available on this and other Hobart products.