



PROGRAMMING MANUAL

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Bunn-O-Matic Corporation

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BUNN-O-MATIC COMMERCIAL PRODUCT WARRANTY

Bunn-O-Matic Corp. ("BUNN") warrants equipment manufactured by it as follows:

- 1) Airpots, thermal carafes, decanters, GPR servers, iced tea/coffee dispensers, MCR/MCP/MCA single cup brewers, thermal servers and ThermoFresh[®] servers (mechanical and digital) 1 year parts and 1 year labor.
- 2) All other equipment 2 years parts and 1 year labor plus added warranties as specified below:
 - a) Electronic circuit and/or control boards parts and labor for 3 years.
 - b) Compressors on refrigeration equipment 5 years parts and 1 year labor.
 - c) Grinding burrs on coffee grinding equipment for 4 years or 40,000 pounds of coffee, whichever comes first.

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OPERATING CONTROLS

There are five of these switches that will be used for the operation of the dispenser.





1. Switch - Upper left corner of the control pad:

This switch is the ON/OFF toggle switch which powers up the dispenser and the LCD display. When ON the Date and Time toggle back and forth continously except during programming.

2. Bottom left corner:

This is used to turn the left side auger motor to AUGER ON, AUGER OFF or AUGER REFILL ON. (Refill only applicable when installed)



3. Bottom left corner:

This is used to turn the left side ice control to OFF, ICE or CHILL.



4. Bottom right corner:

This is used to turn the right side auger motor AUGER ON, AUGER OFF or AUGER REFILL ON. (Refill only applicable when installed)



5. Bottom right corner:

This is used to turn the right side ice control to OFF, ICE or CHILL.

• • • 6. Hidden buttons used for Programming.

Using the menu-driven display on the front of the dispenser, the operator has the ability to alter or modify various parameters such as beverage consistency and set day/night "ON/OFF" times. The operator is also prompted to check a variety of periodic service functions or even a step-by-step cleaning routine. There is also the opportunity to return all changes back to factory default settings.

Access to most controls can be password protected to allow only qualified personnel to make changes.



Programming Switches

To access the programming mode, and to scroll through the different function screens, hidden programming switches are used. There are three of these switches that will be used for the setup of the dispenser.

- I/O SWITCH (upper left corner of the control pad) This switch is the ON/OFF toggle switch which powers up the dispenser and the LCD display. This switch is also used as back up switch in menu mode.
- 2. "LEFT DOT" left under display)

Pressing will advance to the next function. When prompted by a selection from the menu to answer yes or no, the "Left dot" switch is used to answer "NO" or (-) minus.

- "CENTER DOT" (center under display) Press and hold this switch 5 seconds to access the Menu Function Index. This switch is also used as "NEXT" to scroll through the functions.
- "RIGHT DOT" (right under display) Pressing will advance to the next function. When prompted by a selection from the menu to answer yes or no, the "Right dot" switch is used to answer "YES" or (+) plus.

HOME SCREEN

During normal operations, TIME, DATE, and SERIAL NUMBER toggle back and forth continuously.



SOFTWARE MAIN MENUS

The following function screens are in the order they appear when programming mode is accessed (press and hold the center hidden switch for 5 seconds). Use the center hidden button to navigate forward, left hidden button to navigate backward and the right hidden button to enter the menu.



DAILY OPERATIONS

The following software screens are contained within the Daily Operations menu.



CLEANING GUIDE

Select YES to go through steps to clean machine. See the Installation and Operating Guide for steps with images.



DAILY OPERATIONS (continued)

CLEANING GUIDE



SET THICKNESS

This function adjusts the ice consistency, or torque of each auger when answered YES (ICE). Two screens will appear for left and right. The operator can scroll through a range of a minimum of 1 (ULTRA) to a maximum of 16 (ICE). Factory default is 7.



TEST AUGERS

This function tests the operation of forward and reverse for each auger motor. Left auger appears first. Press the right hidden switch to toggle between OFF, FORWARD and REVERSE. Press center hidden switch to repeat the operation for the right auger motor. A one minute time out will return to the Home Screen.



SET DATE AND TIME

toggle

Selecting YES (ICE) allows the operator to set the **DATE** (YY MM DD) and **TIME** (HR MIN SEC) for display on the HOME SCREEN.



PASSWORD

From this screen, the operator must know the password before moving on to the remaining functions. The range is from 0 - 9999 with the factory default being 0000.



SETTINGS

The following software screens are contained within the SETTINGS menu.



SETTINGS (continued)



DEFROST MODE

This feature allows the machine to defrost the product. The use can toggle between OFF, NIGHT, and AL-TERNATE.



SETTINGS (continued)

SET NIGHT TIME / SET DAY TIME

The bottom corners displaying "ICE" will change to "CHILL" during the night mode. During night mode, the product will be kept chilled to below 35°F. "ICE" reading will return after night mode elapses. With "OFF" representing 12:00 AM, the operator can scroll to the times desired for the night time mode to begin and end.



DEFROST BEGIN

This feature allows the operator to set a defrost time for product.



LOW LEVEL DETECT

Low level detect will alert the operator when product is getting low in a hopper(s) based on being below the level probe. The alert will appear from the home screen and will turn off when the hopper(s) is filled.



SETTINGS (continued)

LOW LEVEL TO CHILL

This feature is only available if Low Level Detect is enabled. It allows the operator to set a chill time for when product is low in the hopper(s). After the set amount of time the product would switch from ICE to CHILL if left low in the hopper(s).



REFILL THRESHOLD

This software allows the operator to adjust the refill threshold for LAF and CFV models. At the refill threshold screen, with no product in the hopper, the number on the left (top) of the screen is normally around 250. The number on the right of the screen is factory set to 155. The factory set point should not need any adjustment.



AUTO REFILL

The auto refill feature will only appear for CFV and LAF models. The following software screens are contained within the Auto Refill menu.



AUTO REFILL (continued)



Press left or right hidden switch to enter and test the refill valves. See page 16 for more information about this menu.

DELAYED REFILL

This feature is used to fill the hoppers in small increments until product touches the level probe. Between increments, there is a delay time that can be adjusted in programming. This can prevent the frozen product that is already in the hopper from becoming diluted and not ready to serve. The delay and fill times are to be determined and set based on each application as desired by the operator.



PRESSURE

This feature allows the operator to see the PSI status for the left and right sides. The pressure status is only available for CFV models.



TEST REFILL

This feature allows the operator to activate the refill valves for calibration or testing purposes.



ADVANCED SETTINGS

The following software screens are contained within the Advanced Settings menu.



ADVANCED SETTINGS (continued)

SET LANGUAGE

This feature allows the operator to scroll through a list of languages stored in the software and select one for the display messages.



DAYS TO CLEAN

This feature allows the operator to set a cleaning schedule from 1 to 14 days. The default screen is 0 or OFF. Selecting (-) will prompt the screen Days To Clean. Once a number of days is selected the screen will prompt two functions, CLEAN MESSAGE ONLY or CLEAN LOCKOUT. On the day selected, the display will toggle between DATE & TIME and CLEAN DUE TODAY. The dispenser will lock into night mode at midnight if "Clean Lockout" is activated. To reset the Clean Due Today message or lockout, two functions must be performed. Either power off the dispenser using the I/O (ON/OFF) switch and allow the barrels or cooling drums to warm over 50°F, or scroll to the Cleaning Guide and perform the cleaning service. The barrels will warm to over 50°F when cleaned with warm water and the message will disappear. NOTE: The "CLEAN DUE TODAY" and "CLEAN DUE NOW" messages may be customized on late model machines. All operators should be trained to know the machine needs cleaning when the custom message appears on the display.



ADVANCED SETTINGS (continued)

THICK ADJUST

This feature will lockout the ability to change settings for "SET THICKNESS" within Daily Operations submenus. The operator will need to enter the password before returning to Daily Operations for adjustments.



SWITCHES

This function allows the operator to lockout the touch pad. Selecting + (ON) provides no time delay on switches except for the center (GOURMET) hidden switch. Selecting - (LOCKOUT) provides a five second hold to wake up the touch pad and a two minute time frame from last button pressed to make adjustments before returning to sleep mode (five second hold).



AD MESSAGE

This function allows the operator to create an AD Message that will toggle with the Home Screen messages.



ADVANCED SETTINGS (continued)

SET PASSWR 0000

This is the function to set the password using a range of 0 to 9999 (the factory default is 0). When the password is set, the operator can only access the first four functions: Cleaning Guide, Set Consistency, Test Augersand Set Date & Time.



SERVICE SETTINGS

The following software screens are contained within the Service Settings menu.



SERVICE SETTINGS (continued)



PREVENTIVE MAINTENANCE

This feature is used to reset a reminder message Preventive Maintenance Due every year. The machine will not shut down if service is not performed. When the service is performed and the message is answered YES, the time and date is recorded for another year to elapse. This feature can be DISABLED by pressing (-) switch.



SERVICE SETTINGS (continued)

SERVICE PHONE #

This feature allows the operator to record the Service Phone Number for quick reference. Default is set to DISABLE. Pressing (-) or (+) sets to ENABLE.



ENTER ASSET

This feature is used to set the asset number using a range of 0 to 999999 (the factory default is 0). It is used to track the usage or service of an individual machine within a group.



RESTORE DEFAULTS?

This feature allows the operator to restore the machine to factory default settings.



SERVICE SETTINGS (continued)

SOFTWARE VERSION

This screen will display the current software version installed on the machine. Additional information such as bootloader, application, serial #, current up time, lifetime power and machine # can be viewed when scrolling through.



USB FUNCTIONS

This features provides detailed statistics and logs that can be exported to an external USB device.



EVENT LOG

This features provides the last 12 logged system events. The even number, description, date and time will rotate every 4 seconds on the display. Press next to scroll through each event.



SERVICE TOOLS

The following software screens are contained within the Service Tools menu.



TEST OUTPUTS

This will allow the operator to test the operation of individual components and outputs of the control board.



SERVICE TOOLS (continued)

TEST OUTPUTS



TEST SWITCHES

This will allow the operator to test the operation of individual switches on the membrane touch pad.



Install Date

The following three screens will scroll after advancing past the function "Restore Defaults". The Install Date and Time is recorded when the dispenser is powered on for the first 100 hours. The **Install Date** and Time cannot be reset and is stored in permanent memory.



Temp and Torque

Press and hold the left and right hidden buttons for 5 seconds to display the TEMP & TORQUE. The temperature of each cooling drum and the hot gas temperature will toggle back and forth. The auger torque is displayed continuously. Press and release the hidden buttons to return to HOME SCREEN. The TEMP & TORQUE mode is typically used for service.



Screens below will alternate back and forth.



Small Block (-): Left or Right Refrigerant Solenoid is OFF

Large Block (): Left or Right Refrigerant Solenoid is ON

Lower case fan: Means condenser fan is not operating.

Upper case FAN: Means condenser fan is powered and operating.

Lower case cmp: Means compressor is not operating.

Upper case CMP: Means compressor is powered and operating.

Lower case htr: Means the PTC heater is off.

Upper case HTR: Means the PTC heater is on.

The left or right number (currently showing 0) is a real time operation number (torque) related to the Thickness setting multiplied by three.

Updating Software

To begin you will need an external USB device that contains a software file for updating the control board.

1. Power off the machine.

2. Loosen the bolts beneath the left and right panels to remove the panels. (fig 1&2)

3. Remove the screw from the lower front panel on both sides. (fig 3)

4. Remove the drip tray.

5. Remove the slotted screw from the front panel behind the drip tray.

6. Remove the front panel by pulling downward and away from the machine. Be cautious upon removing the panel because of the membrane switch that needs to be disconnected.

7. The USB port is on the right-side of the control board (facing front of machine). Insert the external USB device that contains software. (fig 4)

8. Power on the machine.

9. The display will show that the system is booting up and then show that programming is commencing. (fig 5)

10. Allow time for the software to update.

11. Power off the machine and remove the USB device.

12. Reinstall the front panel and connect the membrane switch.

13. Reinstall the side panels and drip tray.

14. Software update is complete.













fig 5

