BUNN®







INSTALLATION & OPERATING GUIDE

BUNN-O-MATIC CORPORATION

POST OFFICE BOX 3227 SPRINGFIELD, ILLINOIS 62708-3227 PHONE: (217) 529-6601 FAX: (217) 529-6644

To ensure you have the latest revision of the Operating Manual, or to view the Illustrated Parts Catalog, Programming Manual, or Service Manual, please visit the Bunn-O-Matic website, at www.bunn.com. This is absolutely FREE, and the quickest way to obtain the latest catalog and manual updates. For Technical Service, contact Bunn-O-Matic Corporation at 1-800-286-6070.



BUNN-O-MATIC COMMERCIAL PRODUCT WARRANTY

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

1) All equipment other than as specified below: 2 years parts and 1 year labor.

2) Electronic circuit and/or control boards: parts and labor for 3 years.

3) Compressors on refrigeration equipment: 5 years parts and 1 year labor.

4) Grinding burrs on coffee grinding equipment to grind coffee to meet original factory screen sieve analysis: parts and labor for 3 years or 30,000 pounds of coffee, whichever comes first.

These warranty periods run from the date of installation BUNN warrants that the equipment manufactured by it will be commercially free of defects in material and workmanship existing at the time of manufacture and appearing within the applicable warranty period. This warranty does not apply to any equipment, component or part that was not manufactured by BUNN or that, in BUNN's judgment, has been affected by misuse, neglect, alteration, improper installation or operation, improper maintenance or repair, damage or casualty. This warranty is conditioned on the Buyer 1) giving BUNN prompt notice of any claim to be made under this warranty by telephone at (217) 529-6601 or by writing to Post Office Box 3227, Springfield, Illinois 62708-3227; 2) if requested by BUNN, shipping the defective equipment prepaid to an authorized BUNN service location; and 3) receiving prior authorization from BUNN that the defective equipment is under warranty.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF EITHER MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The agents, dealers or employees of BUNN are not authorized to make modifications to this warranty or to make additional warranties that are binding on BUNN. Accordingly, statements by such individuals, whether oral or written, do not constitute warranties and should not be relied upon.

If BUNN determines in its sole discretion that the equipment does not conform to the warranty, BUNN, at its exclusive option while the equipment is under warranty, shall either 1) provide at no charge replacement parts and/or labor (during the applicable parts and labor warranty periods specified above) to repair the defective components, provided that this repair is done by a BUNN Authorized Service Representative; or 2) shall replace the equipment or refund the purchase price for the equipment.

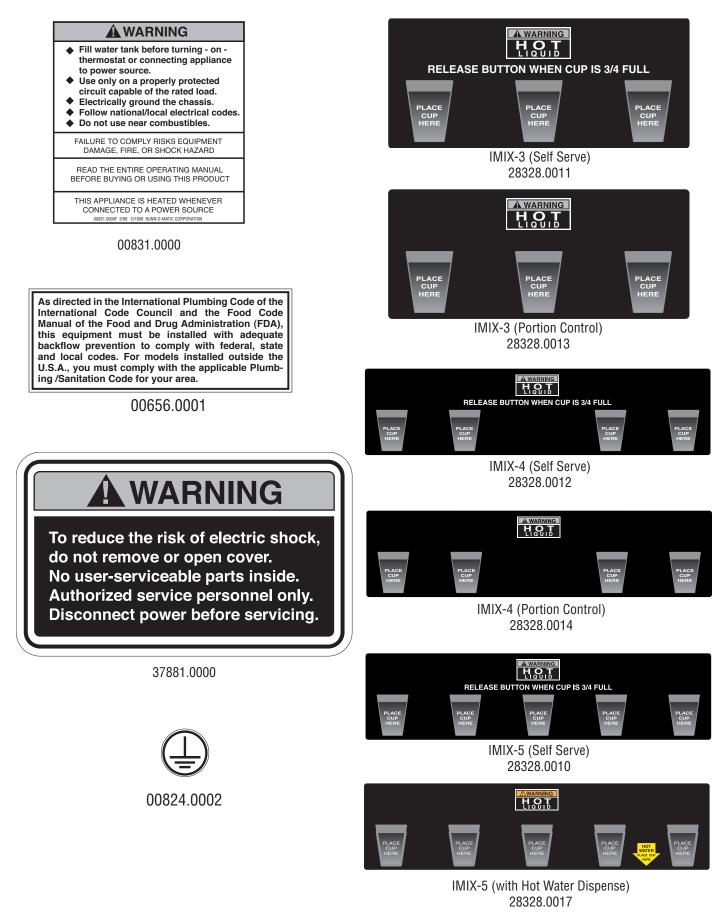
THE BUYER'S REMEDY AGAINST BUNN FOR THE BREACH OF ANY OBLIGATION ARISING OUT OF THE SALE OF THIS EQUIPMENT, WHETHER DERIVED FROM WARRANTY OR OTHERWISE, SHALL BE LIMITED, AT BUNN'S SOLE OPTION AS SPECIFIED HEREIN, TO REPAIR, REPLACEMENT OR REFUND.

In no event shall BUNN be liable for any other damage or loss, including, but not limited to, lost profits, lost sales, loss of use of equipment, claims of Buyer's customers, cost of capital, cost of down time, cost of substitute equipment, facilities or services, or any other special, incidental or consequential damages.

392, AutoPOD, AXIOM, BrewLOGIC, BrewMETER, Brew Better Not Bitter, BrewWISE, BrewWIZARD, BUNN Espress, BUNN Family Gourmet, BUNN Gourmet, BUNN Pour-O-Matic, BUNN, BUNN with the stylized red line, BUNNlink, Bunn-OMatic, Bunn-O-Matic, BUNNserve, BUNNSERVE with the stylized wrench design, Cool Froth, DBC, Dr. Brew stylized Dr. design, Dual, Easy Pour, EasyClear, EasyGard, FlavorGard, Gourmet Ice, Gourmet Juice, High Intensity, iMIX, Infusion Series, Intellisteam, My Café, PowerLogic, Quality Beverage Equipment Worldwide, Respect Earth, Respect Earth with the stylized leaf and coffee cherry design, Safety-Fresh, savemycoffee.com, Scale-Pro, Silver Series, Single, Smart Funnel, Smart Hopper, SmartWAVE, Soft Heat, SplashGard, The Mark of Quality in Beverage Equipment Worldwide, ThermoFresh, Titan, A Partner You Can Count On, Air Brew, Air Infusion, Beverage Bar Creator, Beverage Profit Calculator, Brew better, not bitter., BUNNSource, Coffee At Its Best, Cyclonic Heating System, Digital Brewer Control, Nothing Brews Like a BUNN, Pouring Profits, Signature Series, Tea At Its Best, Phase Brew, The Horizontal Red Line, trifecta, Ultra, Velocity Brew are either trademarks or registered trademarks of Bunn-O-Matic Corporation.

USER NOTICES

The notices on this dispenser should be kept in good condition. Replace unreadable or damaged labels.



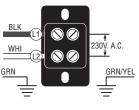
INITIAL SET-UP

- 1. Apply the four non-skid pads from the parts box to the bottom of the legs.
- 2. Remove the drip tray assembly, drip tray bracket, and splash panel assembly from the parts box.
- 3. Place a set of key holes in the drip tray bracket over the lower two screws in the panel below the hopper access door; push down gently and tighten screws.
- 4. Place the set of key holes in the splash panel over the upper two screws and position so the screws are between the holes.

ELECTRICAL REQUIREMENTS

CAUTION - The dispenser must be disconnected from the power source until specified in Electrical Hook-Up. The 120 volt version of this dispenser has an attached cordset. The mating connector must be a NEMA 5-15R.

To access terminal block for high voltage models without a cordset, remove left side panel.



230V AC single phase models

Note: This electrical service consists of 2 current carrying conductors (L1 and L2) and a separate conductor for earth ground.

Electrical Hook-Up

CAUTION - Improper electrical installation will damage electronic components.

- 1. An electrician must provide electrical service as specified.
- 2. Using a voltmeter, check the voltage and color coding of each conductor at the electrical source.
- 3. Place the ON/OFF/NIGHT switch in the "ON" position.
- 4. Connect the dispenser to the power source.
- 5. If plumbing is to be hooked up later be sure the dispenser is disconnected from the power source. If plumbing has been hooked up, the dispenser is ready for Initial Fill & Heat.

CE REQUIREMENTS

- This appliance must be installed in locations where it can be overseen by trained personnel.
- For proper operation, this appliance must be installed where the temperature is between 5°C to 35°C.
- Appliance shall not be tilted more than 10° for safe operation.
- An electrician must provide electrical service as specified in conformance with all local and national codes.
- This appliance must not be cleaned by water jet.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given instructions concerning use of this appliance by a person responsible for its safety.
- Children should be supervised to ensure they do not play with the appliance.
- If the power cord is ever damaged, it must be replaced by the manufacturer or authorized service personnel with a special cord available from the manufacturer or its authorized service personnel in order to avoid a hazard.
- Machine must not be immersed for cleaning.

PLUMBING REQUIREMENTS

This dispenser must be connected to a **cold water** system with operating pressure between 20 and 90 psi from a 1/2" or larger supply line. A shut-off valve should be installed in the line before the dispenser. Install a regulator in the line when pressure is greater than 90 psi to reduce it to 50 psi. The water inlet fitting is 1/4" flare.

NOTE - Bunn-O-Matic recommends 1/4" copper tubing for installations of less than 25 feet and 3/8" for more than 25 feet from the 1/2" water supply line. At least 18 inches of an FDA approved flexible beverage tubing, such as reinforced braided polyethylene or silicone, before the dispenser will facilitate movement to clean the countertop. Bunn-O-Matic does not recommend the use of a saddle valve to install the dispenser. The size and shape of the hole made in the supply line by this type of device may restrict water flow.

As directed in the International Plumbing Code of the International Code Council and the Food Code Manual of the Food and Drug Administration (FDA), this equipment must be installed with adequate backflow prevention to comply with federal, state and local codes. For models installed outside the U.S.A., you must comply with the applicable Plumbing /Sanitation Code for your area.

NOTE - If a backflow preventer is required by code, a shock arrestor should be installed between backflow preventer and dispenser. Installing the shock arrestor as close to the dispenser as possible will provide the best results.

NOTE - Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with federal, state and local codes.

PLUMBING HOOK-UP

- 1. Flush the water line and securely attach it to the elbow fitting on the bottom of the dispenser.
- 2. Turn on the water supply.

INITIAL FILL & HEAT

- 1. Turn on the water supply and connect the dispenser to the power source.
- 2. Water will automatically flow into the tank to the proper level and then shut-off. This will take less than ten minutes.
- 3. When the tank is full of water, open the front door and place the ON/OFF/NIGHT switch in the "ON" (upper) position. A tank full of cold water will take approximately eighty minutes for the water to heat on 120 volt versions, and forty minutes on 120/240 volt and 230 volt versions.
- 4. Fill the hopper(s) with the dry product to be dispensed.

LIQUID LEVEL CONTROL

The system automatically maintains the hot water tank's level by energizing the refill solenoid when the water level drops below the liquid level probe. If the system has not successfully refilled in 10 minutes, a refill error occurs. When a refill error occurs, the refill solenoid is de-energized. Once the cause of the refill error has been investigated and cured, the system can be reset by either disconnecting (for at least 5 seconds) and then reconnecting the power to the machine, or by entering one of the program modes (see Programming Modes.)

RINSE TIMER

The dispenser is shipped from the factory with the rinse timer disabled. To enable the rinse timer, refer to Programming the Dispenser and select yes in the "Rinse Alarm ?" screen; set timer to the desired time and exit the programming mode.

When enabled, the rinse timer automatically keeps track of the time since the dispenser was last run through a rinse sequence. If the dispenser detects that a rinse sequence has not been run for the desired time, a message will appear on the LCD display. If the Lockout is set, after an additional 4 hours, a rinse cycle has still not been run, the LCD display will display a message, and the hopper drives will be disabled until a rinse sequence has been run.

RUNNING A RINSE SEQUENCE

- 1. Place the Normal/Program/Rinse switch (page 10) in the "rinse" position.
- 2. Sequentially at each position, press all of the dispense switches. The dispenser will run for 10 seconds with the hopper(s) disabled.
- 3. As each position is rinsed, the LCD display will show which position is being rinsed and count down from 10 seconds.
- 4. After all positions have been rinsed, return the Normal/Program/Rinse switch to the "Normal" position.

DISPENSER USE - Self Serve

- 1. Simply place a cup on the drip tray beneath the desired dispensing tip.
- 2. Press the button to froth and dispense the beverage.
- 3. Release the button when the cup is approximately $\frac{3}{4}$ full and allow the mixing chamber to drain.

Note - The mixing chamber must drain at the end of each dispense.

DISPENSER USE - Portion Control

- 1. Simply place a cup on the drip tray beneath the desired dispensing tip.
- 2. Select the appropriate button for the cup size under the dispense tip, press momentarily, then release.
- 3. Let the mixing chamber completely drain before removing cup.

HOT WATER DISPENSE - IMIX-5 only

- 1. Simply place a cup on the drip tray beneath the hot water dispense arrow.
- 2. Press the button to dispense hot water.
- 3. Release the button when the desired amount is reached.

PREVENTIVE MAINTENANCE

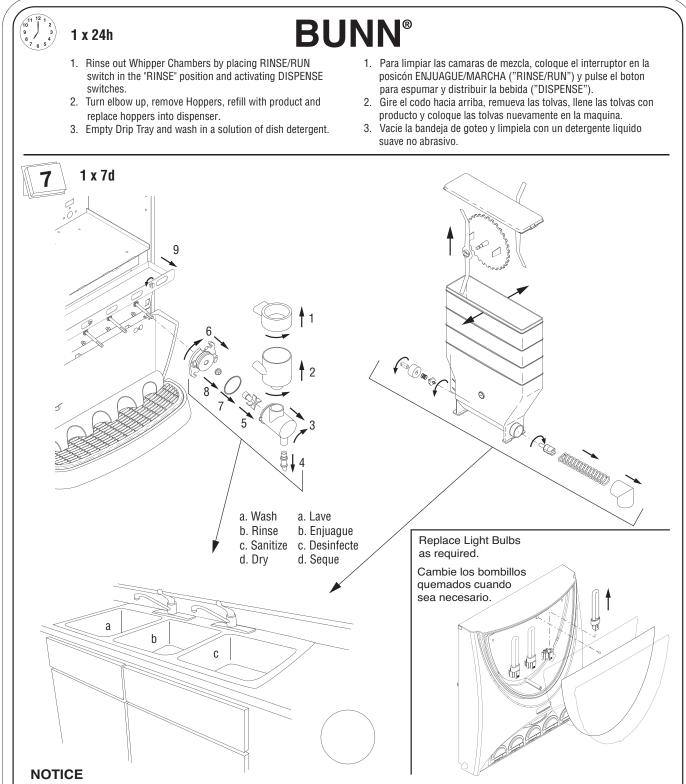
Bunn-O-Matic[®] Corporation recommends that preventive maintenance be performed at regular intervals. Maintenance should be performed by a qualified service technician. For Technical Service, contact Bunn-O-Matic[®] Corporation at 1-800-286-6070.

NOTE: Replacement parts or service caused by failure to perform required maintenance is not covered by warranty.

Cycle (months)	Item	Part Number
6	Mixing Chamber Kit	32906.0001
3 or as needed	Whipper Shaft Seal Kit	26356.1000

CLEANING

The use of a damp cloth rinsed in any mild, non-abrasive, liquid detergent is recommended for cleaning all surfaces on Bunn-O-Matic equipment. Do **NOT** clean this equipment with a water jet device.



The cleaning instructions noted above are for non-dairy sugar based food products. When dispensing any other food product, the cleaning cycle for the whipping chamber assembly and ejector elbow must be performed daily. **NOTA:**

Las instrucciones de limpieza descritas anteriormente excluyen productos lacteos azucarados. La limpieza de las camaras de mezcla y de los codos de salida de cada tolva deberá realizarse diariamente.

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HOPPER DISPENSE RATE OF PRODUCT

The hopper dispense rates are preset at the factory. With 22 tooth gear and auger wire, the preset dispense rate is approximately 3 to 5 grams per second. With 30 tooth gear and auger wire, the preset dispense rate is approximately 5 to 7 grams per second. The hopper dispense rates can be individually programmed to a range of dispense rates from approximately 1.5 to 12 grams per second, by following the procedures described in Programming Modes.

HOPPER LEVEL SENSOR CALIBRATION

The dispenser is equipped with sensors to detect a low level in each hopper. When low powder lockout is enabled, dispensing will be disabled when a low powder condition is detected in a hopper. The LCD screen on the door will also display a low level condition.

The despenser is shipped from the factory with the low level powder lock disabled. To enable the lock, place the "NORMAL/PROGRAM/RINSE" switch (page 10) in the "PROGRAM" position. Press button A (page 10) below the BUNN logo on the front of the door. Continue to press this button until the "LOCKS/DISABLES?" menu is reached. Press button B (page 10) for "YES", then press it again in the "LOW POWDER LOCK?" menu. The low powder lockout is now enabled. Press button C (page 10) to exit the program menus, then return the "NORMAL/PROGRAM/RINSE" button to the "NORMAL" position. To disable the low powder lockout, repeat the process, and press button D (page 10) for "NO", in the "LOW POWDER LOCK" menu.

The low level sensors are factory calibrated for most products. If calibration is required for proper operation, the sensors can be recalibrated to the current product.

The hopper must be at least half full of product for calibration. Place the "NORMAL/PROGRAM/RINSE" switch in the "PROGRAM" position. Using button A (page 10), forward until the "CALIBRATION?" menu is reached. Press button B (page 10) for "YES", then press button A (page 10) until "CAL HOPPER 1?" screen is reached. Continue to press button A until the hopper to be calibrated is reached.

To calibrate the hopper, press button B (page 10) to indicate "YES" in the "CAL HOPPER#? screen. The screen will then ask you if the hopper is full. Press the button again to indicate "YES". The calibration will then take a few moments, then the screen will display "POWDER LEVEL RESET COMPLETE". The next hopper may be calibrated by moving forward in the menu, or press button C (page 10) to exit.

DRAINING THE HOT WATER TANK

CAUTION - The dispenser must be disconnected from the power source throughout these steps

- 1. Disconnect the dispenser from the power source.
- 2. Open front door and place ON/OFF/NIGHT switch in the "OFF" (center) position and let the water in the tank cool before draining.
- 3. Shut off and disconnect the incoming water supply.
- 4. Remove the drip tray and access panels below the door.
- 5. Pull the clamped end of the silicone tube out of the dispenser and direct it into a drain or a container large enough to hold the volume of water in the tank (7.3 gal for iMIX-4/5 and 4.4 gal for iMIX-3).
- 6. Make certain the shut off clamp is locked tightly on the tube, then remove the snap type clamp and plug from end of tube.
- 7. Carefully release the shut off clamp to let the water drain from the tank.

NOTE - The dispenser must be refilled using the INITIAL FILL & HEAT steps before reconnecting to the power source.

GLOSSARY

TANK TEMP XXX° (-) EXIT (+)	Adjust tank temperature (190° F maximum)	SET PASSWORD ? (-) XXXX (+)	Allows password to be set to pre- vent altering setup functions
READY TEMP XXX° (-) EXIT (+)	Adjust minimum tank ready temper- ature for lockout (185° maximum)	AUDIBLE ALARM ? NO EXIT YES	Turns on audio alarm
SET CUP SIZE EXMPL TIME	Select setting cup size by Time (seconds) or by Example (Portion Control models only)	DISABLE MESSAGES ? NO EXIT YES	Disables function that displays fault messages on LCD door display
DISPENSE TO ADD REPEAT SAVE	Press same dispense button to top off cup, or press save to lock in dispense	ENABLE ADS ? NO EXIT YES	Enables "ADS" to be displayed on LCD door display
	time, or, press repeat to erase dispense time and repeat process.	ENTER ASSET # ? EXIT YES	Enter asset number of machine
DRINK STRENGTH (-) XX (+)	Adjust hopper motor speed for station selected	ENABLE SERVICE # NO EXIT YES	Enables service agent telephone number to be displayed
XX° CAL	Calibrate temperature probe	ENABL EngergySavr NO EXIT YES	Enables energy saver mode
235 REFILL 155 (-) EXIT (+)	Set refill probe threshold	TEST SWITCHES ? Use Switch To Test	Allows testing of dispense switches
CAL WATER ? PRESS DISPENSE	Calibrates dilution water flow rate in station selected	TEST HEATER ? EXIT YES	Allows manually activating tank heater
CAL POWDER ? PRESS DISPENSE	Calibrates powder dispense rate for hopper in station selected	TEST REFILL ? EXIT YES	Allows manually activating refill valve
Auger Delay (-) .XX sec (+)	Set delay start of hopper after dilution valve opens in station selected	TEST HOT WATER ? EXIT YES	Allows manually activating hot water valve (optional)
CAL HOPPER ? NO YES	Calibrates hopper level sensor in station selected Hopper must be at least half full to calibrate	TEST AUGERS ? DISPENSE TO TEST	Allows manually activating hopper motors
LOW POWDER LOCK ? NO EXIT YES	Enables lockout of dispensing when low hopper level is detected	TEST DISP HEADS DISPENSE TO TEST	Allows manually activating dis- pense valves & whipper motors
DISPENSE LOCKOUT NO EXIT YES	Enables lockout of dispensing if below minimum water temperature	DISPLAY USAGE ? EXIT YES	Displays amount dispensed
RINSE ALARM ? NO EXIT YES	Enables rinse alarm	FACTORYDEFAULTSNOYES	Resets all functions to factory defaults, and password to 0
HEAD 1 DISABLE ? NO EXIT YES	Disables all functions and dispensing for station selected		

PROGRAMMING THE DISPENSER

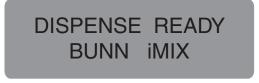
The following function screens are in order of appearance. Each screen will have instructions on how to access, and the procedures to program the various functions of the dispenser. To enable programming, place the "NORMAL/PROGRAM/RINSE" switch in the "PROGRAM" position.

IMPORTANT PROGRAMMING NOTES - READ CAREFULLY

To exit the programming mode at any time, press and release the exit (center) pad located on the front switch panel. The display will return to the **PROGRAM HOME SCREEN**.

If none of the five programming switches are pressed within 90 seconds during the setup of the dispenser. the programming of the function screen that is being set will be exited and the display will return to the **PRO-GRAM HOME SCREEN.**

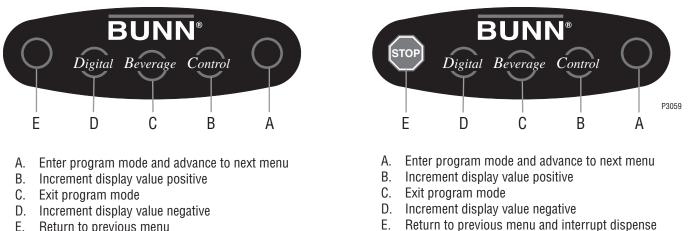
PROGRAM HOME SCREEN



P3057

The screen above will be shown when the dispenser is ready for use. While the tank is heating, the water temperature will be displayed until the ready temperature is reached.

PROGRAMMING SWITCHES



E. Return to previous menu





Using the menu-driven display (MAIN SCREEN) on the front of dispenser, the operator has the ability to alter or modify various functions of the dispenser. This allows for precise dispensing of various flavors of powdered products.

Programming of dispenser is achieved by entering a certain function, then, by use of programming switches, the operator can customize the dispensing process to their specifications.

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

1. **ON/OFF/NIGHT switch:**

ON: Enables all dispenser functions.OFF: Disables all dispenser functions.NIGHT: Disables display lighting and dispense switches. Tank refill and heating still functions.

2. NORMAL/PROGRAM/RINSE switch:

NORMAL: Allows all dispenser functions. Must be in this position for dispensing. **PROGRAM:** Allows access to program menus using touch pad and LCD screen. **RINSE:** Disables hopper motors. Pressing dispense button on front door will dispense dilution water and power whipper motor for ten seconds.

PROGRAMMING LOCKOUT SWITCH (on memory board mounted on rear of component mounting bracket)

This switch can be set to prevent access to the programming mode of the dispenser. Once all the correct settings are programmed, the operator can set the switch to the "ON" position to prohibit anyone from changing the settings.

PROGRAMMING CUP SIZES - Portion Control Models

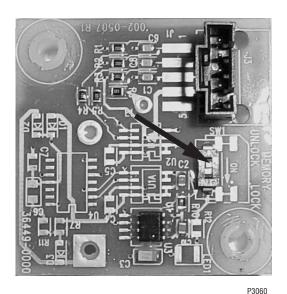
The cup size can be programmed in portion control models by "EXAMPLE" or "TIME". Programming by EX-AMPLE is manually pressing desired dispense button, then releasing when the desired cup size is attained. The time required to fill the cup will be stored in the controller memory when moving to the next menu. Programming by TIME is setting the actual dispense time in seconds for each cup size desired.

Place the "NORMAL/PROGRAM/RINSE" switch in the "PROGRAM" position. Press button A (page 10) below the BUNN logo on front of the door until the "SET CUP SIZE" menu is reached. (Refer to menu J, page 14) Press button D (page 10) to select programming by "EXAMPLE". Place proper cup under dispense tip for station you desire to set. Press desired dispense button, then release when the cup is 3/4 full. If cup is not full enough, the dispense button can be pressed again to add additional beverage to the cup. If cup has reached desired level, press button B under "SAVE" to record the dispense time. If cup is overfilled, press button D under "REPEAT". Empty cup and repeat the process.

If setting cup sizes by "TIME" is desired, press button B under "TIME" in the "SET CUP SIZE" menu. "HEAD 1 SM TIME" will be displayed, along with current time setting. Pressing either button D below (-) or button B below (+) will subtract or add time in .1 second increments. Each one second of time equals approximately 1.25 ounces of beverage at factory settings. When desired time is set, press button A to continue to next cup size.

When the desired cup sizes have been programmed, press button C to exit program menus, or press button A to move to the next menu. If button C was selected to exit the program mode, return the "NORMAL/PRO-GRAM/RINSE" switch to the "NORMAL" position to return to nomal operation.





Press and release right switch (advance to next menu), "TANK TEMP XXX°" appears on screen.

