BUNN®

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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, savemy-coffee.com, Scale-Pro, Silver Series, Single, Smart Funnel, Smart Hopper, SmartWAVE, Soft Heat, SplashGard, The Mark of Quality in Beverage Equipment Worldwide, ThermoFresh, 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, Titan, trifecta, Ultra, Velocity Brew are either trademarks or registered trademarks of Bunn-O-Matic Corporation.

Page 2 42822.1 051910

CONTENTS

Warranty	2
Introduction	
User Notices	
Electrical Requirements	
Plumbing Requirements	
Initial Setup	
Coffee Brewing	
Adjusting Brewing Parameters	
Cléaning	
Front Panel Removal & Tank Draining	11
Advanced Adjustments & Optional Settings	12
Schematic Wiring Diagram	20

INTRODUCTION

This equipment is factory set to brew approximately 2-16 ounces of coffee into a cup. It is only for indoor use on a sturdy counter or shelf. Replace any unreadable or damaged labels.

!!!FOR USE BY TRAINED PERSONNEL ONLY!!!

IMPORTANT SAFE GUARDS

DO NOT: Pick up brewer by handles;

DO NOT: Allow untrained personnel to operate this equipment:

DO NOT: Use parts that show any signs of wear or damage;

DO NOT: Put plastic parts in dishwasher, or use corrosive or abrasive cleaners;

DO NOT: Fail to inspect brew chamber, brew cup, seals and related parts daily for damage/wear and tear;

DO NOT: Fail to do recommended preventive maintenance:

DO NOT: Operate brewer with missing or damaged parts;

DO NOT: Open brew chamber during brew cycle;

DO NOT: Open brew chamber when hot water is present;

USE CAUTION WHEN REMOVING BREW/GROUNDS CUP. HOT LIQUID MAY BE PRESENT.

RECOMMENDED PREVENTIVE MAINTENANCE

- SEALS/O-rings: Brew chamber top seal, brew cup upper & lower seals. Clean & inspect daily. Replace if loose, cracked or damaged.
- Brew cup assembly & chamber: Clean & inspect daily. Replace if cracked or damaged.
- Check valve: Clean & inspect daily. Replace if cracked or damaged.
- **Top clamp mechanism:** Inspect daily for smooth operation. Clean & lube guides as needed to ensure smooth operation.

USER NOTICES



#00824.0000

★ WARNING HOT LIQUIDS

#37280.0001



#00986.0000

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.





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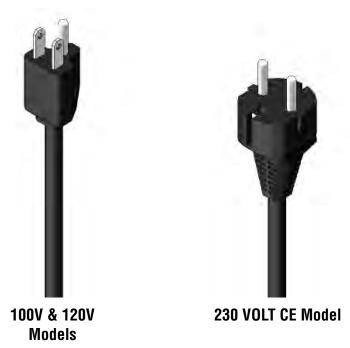


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ELECTRICAL REQUIREMENTS

CAUTION - The brewer must be disconnected from the power source until specified in *Initial Set-Up*.

Refer to Data Plate on the Brewer, and local/national electrical codes to determine circuit requirements.



Note: This electrical service consists of 2 current carrying conductors (L1 and Neutral) and a separate conductor for chassis 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. If plumbing is to be hooked up later be sure the brewer is disconnected from the power source. If plumbing has been hooked up, the brewer is ready for Initial Set-Up.

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.

Page 4

PLUMBING REQUIREMENTS

These brewers must be connected to a cold water system with operating pressure between 20 and 90 psi (138 and 620 kPa) from a ½" or larger supply line. A shut-off valve should be installed in the line before the brewer. Install a regulator in the line, when pressure is greater than 90 psi (620 kPa) to reduce it to 50 psi (345 kPa). The water inlet fitting is ¼" flare fitting. Bunn-O-Matic does not recommend the use of a reverse-osmosis or deionized water supply to this equipment.

NOTE - Bunn-O-Matic recommends $\frac{1}{4}$ copper tubing for installations of less than 25 feet and $\frac{3}{8}$ for more than 25 feet from the $\frac{1}{2}$ water supply line. A tight coil of tubing in the water line will facilitate moving the brewer to clean the counter top. Bunn-O-Matic does not recommend the use of a saddle valve to install the brewer. The size and shape of the hole made in the supply line by this type of device may restrict water flow.

A water filtration system must be installed for brewers used in hard water areas.

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

Plumbing Hook-Up

- 1. Flush the water line.
- Securely attach ¼" water supply line to the elbow.
- Secure cord and water supply line under the retainer strap in any of the three locations as needed. (Only 1 strap included)
- 4. Turn on the water supply.



Optional Drain Hook-Up

- Remove drip tray and the chrome plug from the base.
- 2. Drill out the auxiliary outlet of the drip tray with a ½" drill bit.
- 3. Secure % hose to drip tray, routing it through the opening in the base assembly.
- 4. Connect hose to drain line as needed.
- 5. Install drip tray.



Page 5

INITIAL SET-UP

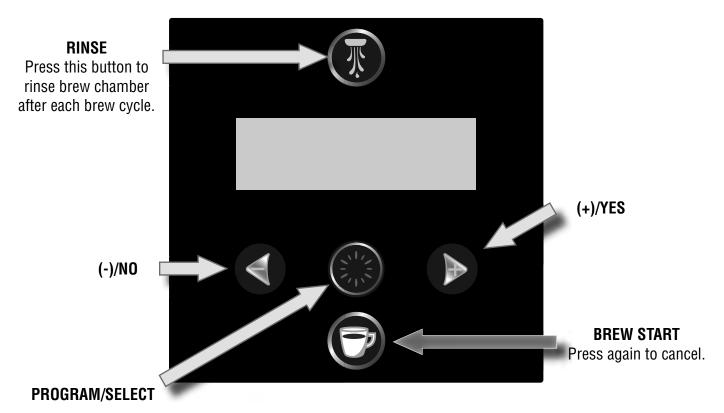
- 1. Install check valve. Refer to pictures on page 10.
- 2. Install clear brew chamber and grounds cup, and lock chamber in place.
- 3. Place an empty container under the brew chamber.
- 4. Connect the brewer to the power source.
- 5. Press the brew start switch. Water will flow into the brew tank. Some excess water will flow into the cup.
- 6. Wait approximately five minutes for the water in the tank to heat to the proper temperature. Display will show "HEAT-ING" until tank reaches it's operating temperature. Some water will drip from the brew chamber during this time; this is due to expansion and should not occur thereafter. Any excess water in the brew chamber will be automatically purged at the end of the initial setup.
- 7. Water volumes and flow settings have been preset at the factory. Refer to "Adjusting Brewing Parameters" section of this manual should the volume need to be increased or decreased.
- 8. The brewer is now ready for use in accordance with the instructions for Coffee Brewing.

NOTE: If brewer has been drained/moved, perform "Reset to first time" procedure on page 11.

Brew water temperature is factory set at 200° F (93.3° C) Areas of high altitude will require lowering this temperature to prevent boiling. This chart should be used as a quide when readjusting the brew water temperature.

Altitude	Boiling	point	Recomn	nended
, included	of w		water tem	
(Faat)	° F			° C
(Feet)	- Г	° C	° F	- 0
-1000	213.8	101.0	200	93.3
-500	212.9	100.5	200	93.3
0	212.0	100.0	200	93.3
500	211.1	99.5	200	93.3
1000	210.2	99.0	200	93.3
1500	209.3	98.5	200	93.3
2000	208.4	98.0	200	93.3
2500	207.4	97.4	200	93.3
3000	206.5	96.9	199	92.8
3500	205.6	96.4	198	92.2
4000	204.7	95.9	197	91.7
4500	203.8	95.4	196	91.1
5000	202.9	94.9	195	90.6
5500	201.9	94.4	195	90.6
6000	201.0	93.9	194	90.0
6500	200.1	93.4	193	89.4
7000	199.2	92.9	192	88.9
7500	198.3	92.4	191	88.3
8000	197.4	91.9	190	87.8
8500	196.5	91.4	189	87.2
9000	195.5	90.8	188	86.7
9500	194.6	90.3	187	86.1
10000	193.7	89.8	186	85.6

OPERATING CONTROLS



Page 6 42822.1 072810

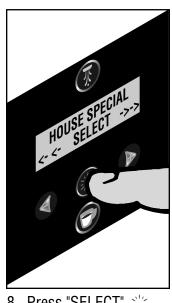
COFFEE BREWING





- 1. Lift handle all the way up.
- 2. Remove cup assembly. Verify screen is locked into grounds cup. Fig 1.
- 3. Fill with desired amount of ground coffee.
- DEGAF ->->

7. Scroll through recipes using arrow **b** buttons.



8. Press "SELECT" significant button for your recipe.

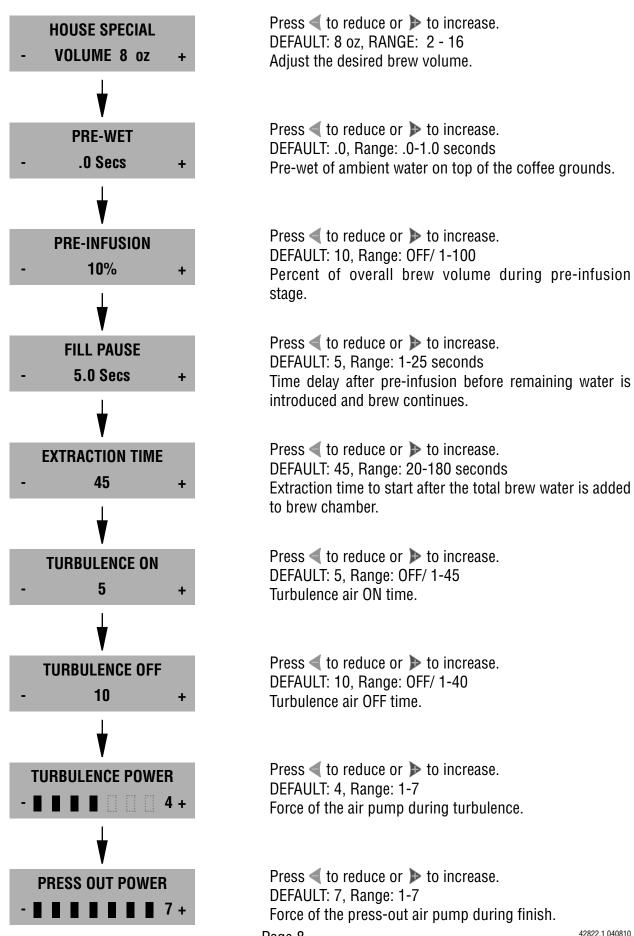
- 4. Place brew cup under brew chamber.
- 5. Place cup on drip tray
- 6. <u>Push handle all the way down to lock</u> brew chamber.



- 9. A. If your brewing parameters are already set, you may simply press the "BREW" button to start a brew cycle.
- B. To set up specific parameters for a particular recipe, verify the recipe name is currently displayed. Press "SELECT" \$\infty\$, display will read "VOLUME".

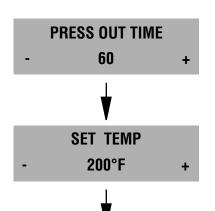
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ADJUSTING BREWING PARAMETERS



Page 8 42822.1 04081

ADJUSTING BREWING PARAMETERS (Continued)



Press \blacktriangleleft to reduce or \blacktriangleright to increase tank target temp.

DEFAULT: 200°F (93°C)

Range: 165°F-208°F (74°C-98°C)

COFFEE BREWING (Continued)





- DO NOT OPEN DURING BREWING OR PRESSING CYCLES.
- IF FOR ANY REASON, WATER REMAINS IN BREW CHAMBER, DO NOT OPEN UNTIL IT COOLS DOWN.



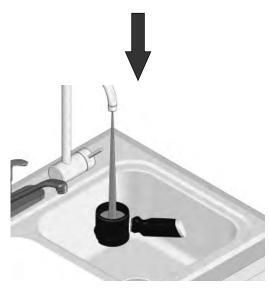
12. EMPTY BREW CUP



10. Press brew button. **NOTE**: Pressing brew button again will cancel a brew cycle.



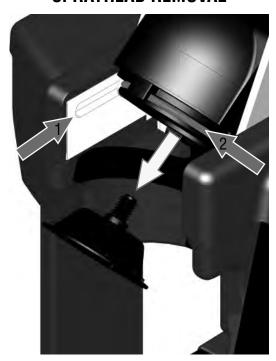
11. When brewing has finished, place an empty cup on drip tray, press rinse.



13. Thoroughly rinse brew cup.

DAILY CLEANING

SPRAYHEAD REMOVAL



Lift handle. Remove brew chamber and cup. Remove sprayhead.

1. Clean & lube guides as needed.

Clean & inspect parts daily.

Replace if loose, cracked or damaged.



Remove the screen from brew cup by rotating ¼ turn and pushing up from underneath. Thoroughly wash (with mild detergent) and rinse the brew chamber, sprayhead, cup and check valve. Wipe out the cap area above sprayhead and around O-rings.

CHECK VALVE REMOVAL



Push the check valve up from underneath the cup support.

After cleaning, apply very light film of silicon lube (included) to O-rings & check valve (1-4)



Thoroughly flush the check valve while pushing the center poppet open with a probe.

Page 10 42822.1 010411

FRONT PANEL REMOVAL AND TANK DRAINING

WARNING: DISCONNECT BREWER FROM POWER SOURCE BEFORE PANEL REMOVAL.

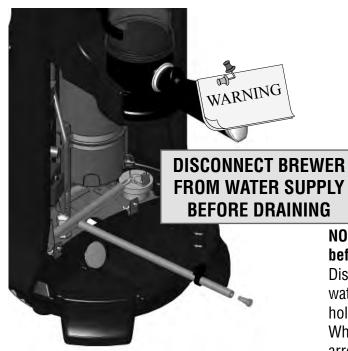


Remove drip tray. Remove two screws. Lower the panel as far as it will go.



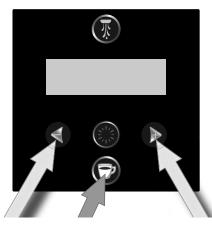
Push the top down to clear the brew chamber support arm, then pull the top out first.

TANK DRAINING



Pull drain hose out as shown. Slide clamp back and remove plug. Refer to programming section and enter "Factory Blowout" mode. Allow tank to drain into sink or suitable container.

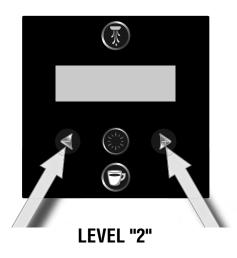
RESET TO FIRST TIME SETUP



NOTE: If tank was drained, follow this procedure before connecting brewer to power source.

Disconnect brewer from power source. Connect to water supply. Install brew cup & chamber. Push and hold both arrow buttons while plugging in the brewer. When display reads "SET TO FIRST TIME UP", release arrow buttons. Place a minimum 40 oz. container under brew chamber. Press brew start button to begin cycle. If tank was empty, it will expel only 20 oz. If tank was still full, it will expel 40 oz.

Page 11 42822.1 040810



Press and hold both arrows until display reads "RECIPE CHANGES" "ENABLED - LOCKED".

PROGRAM MODE DEFAULT RANGE

1.	Recipe Changes	Enabled	Enabled/Locked
2.	Change Recipe Name		
3.	Add Recipe Name		
4.	Delete Recipe Name		
5.	Set Language	Eng	English/Spanish/French
6.	Units	English	English/Metric
7.	Base Temperature	Disabled	Enabled/ Disabled
8.	Brew Lockout	Yes	YES/NO
9.	Ready Degrees	5°F belo	w "SET" temp
10.	1st Rinse Air On	OFF	OFF/1-60
11.	2nd Rinse Air On	60	OFF/1-60
12.	2nd Rinse Time	2.0	OFF/1-4.0
13.	Rinse Air Power	7	OFF/1-7
14.	Brew Count	Total (No	on reset-able)
15.	Brew Count	Total (Re	eset-able)
16.	Enter Service #		
17.	Service Tools		

1. RECIPE CHANGES ENABLED LOCKED

ChangeRecipeName 2. NO YES **HOUSE SPECIAL** A CHANGE **NEXT DECAF HOUSE SPECIAL** В ٨ ADD RECIPE NAME? 3. NO YES

By default "ENABLED" will be flashing to indicate that the brewing parameters may be accessed/changed. Selecting "LOCKED" will prevent changes to the brewing parameters, but can still be accessed for viewing.

18. Factory Defaults

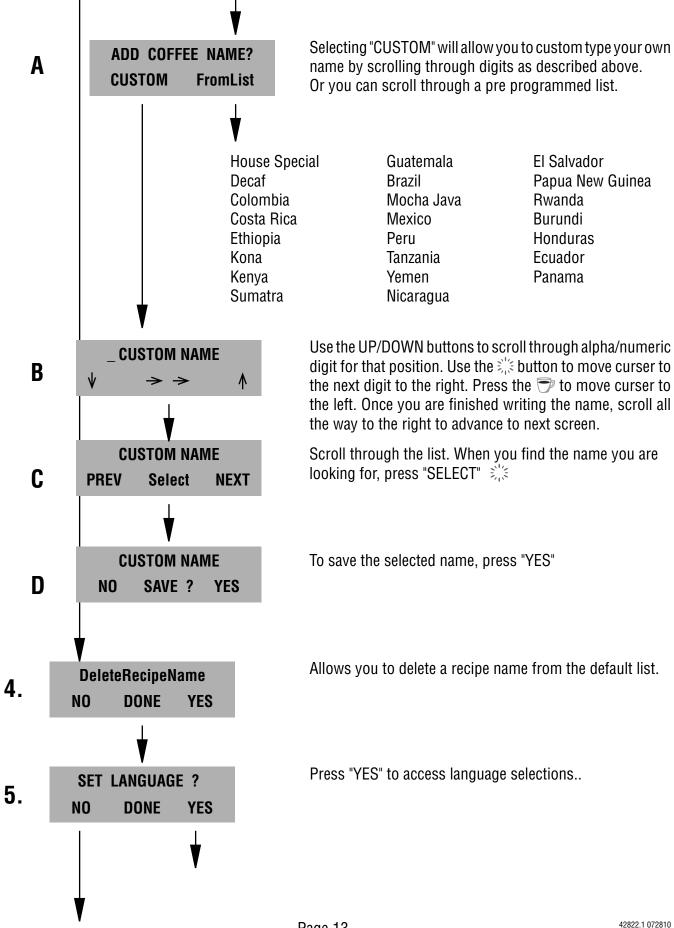
Select "YES" to change/modify a recipe's name. Select "NO" to advance to "ADD RECIPE NAME".

"CHANGE" will advance to next screen to modify the name that is displayed. "NEXT" advances to the next recipe name that has been programmed into memory. Default is "HOUSE SPECIAL" & "DECAF" only.

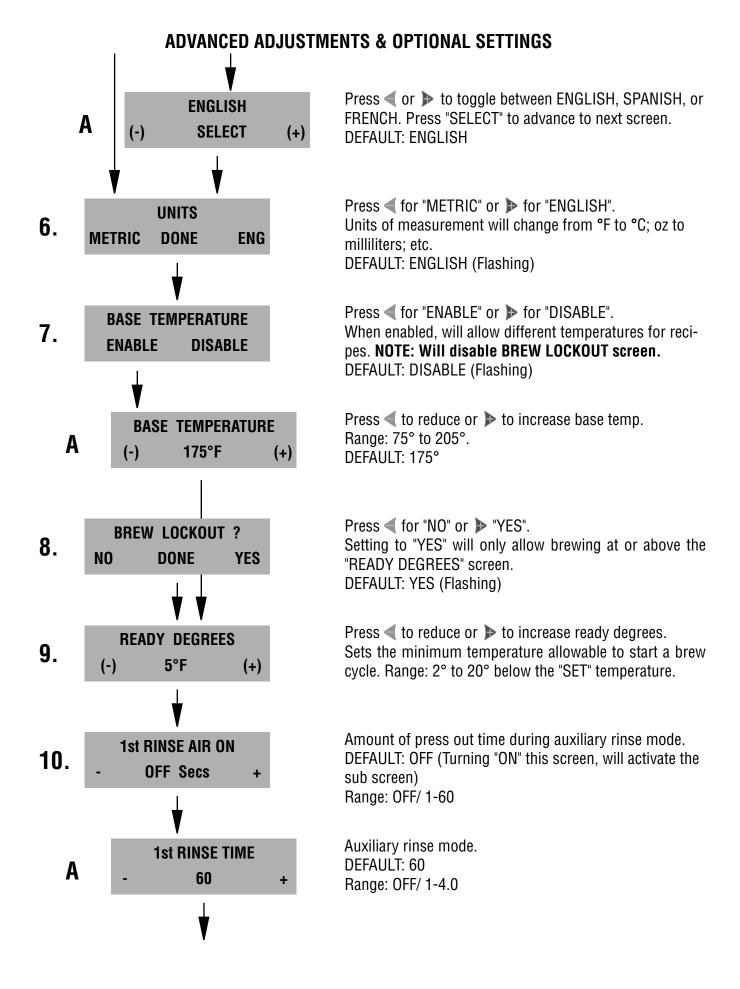
Use the UP/DOWN buttons to scroll through alpha/numeric digit for that position. Use the sign button to move curser to the next digit to the right. Press the to move curser to the left. Once you are finished changing the name, scroll all the way to the right to advance to next screen.

Allows you to add additional names to the default list. Select "YES"

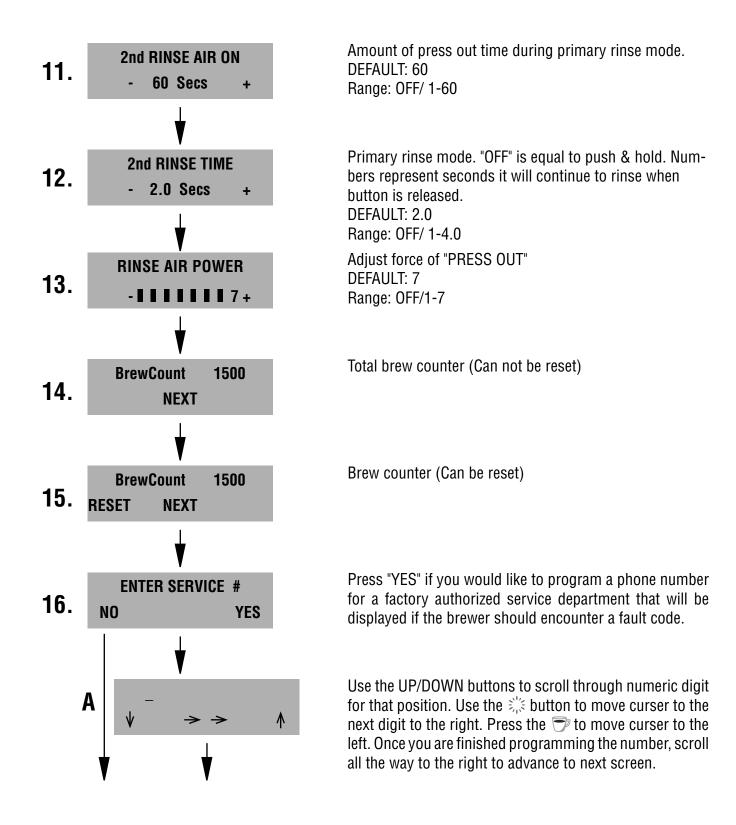
Page 12 42822.1 072810



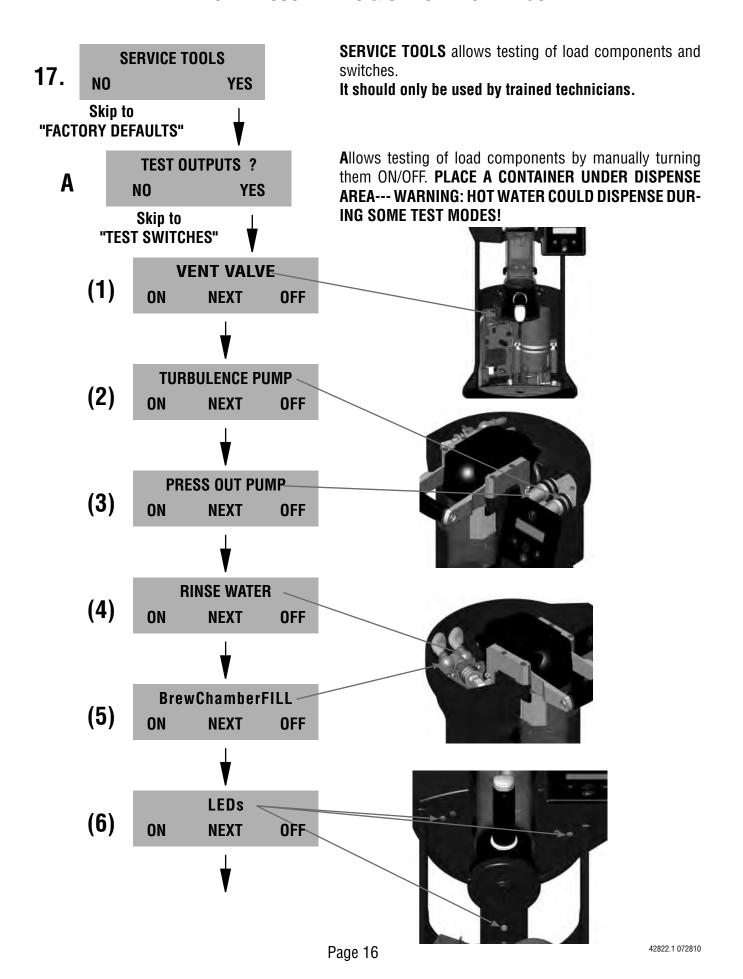
Page 13

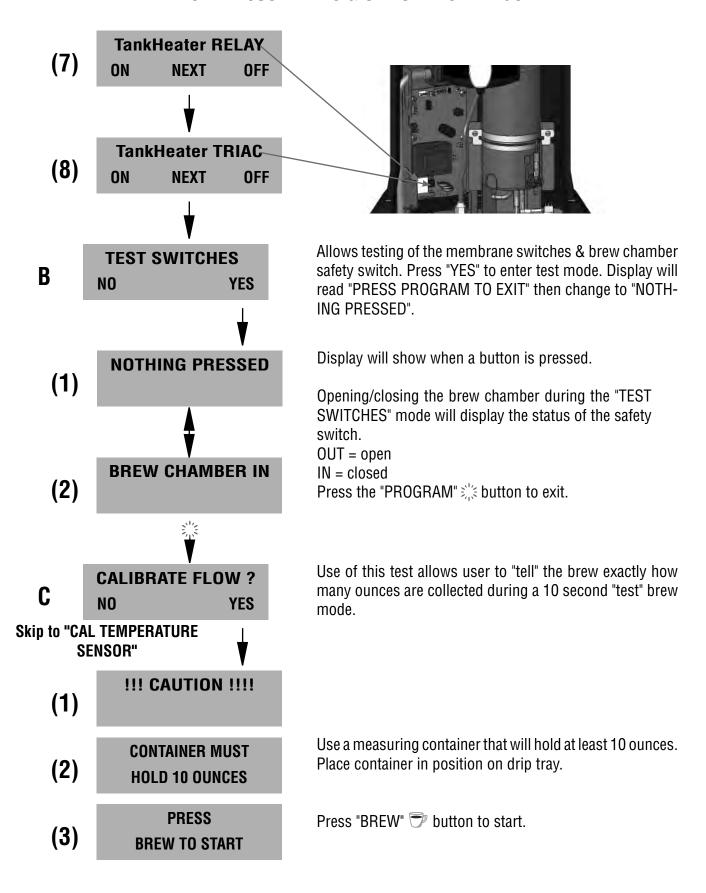


Page 14 42822.1 072810

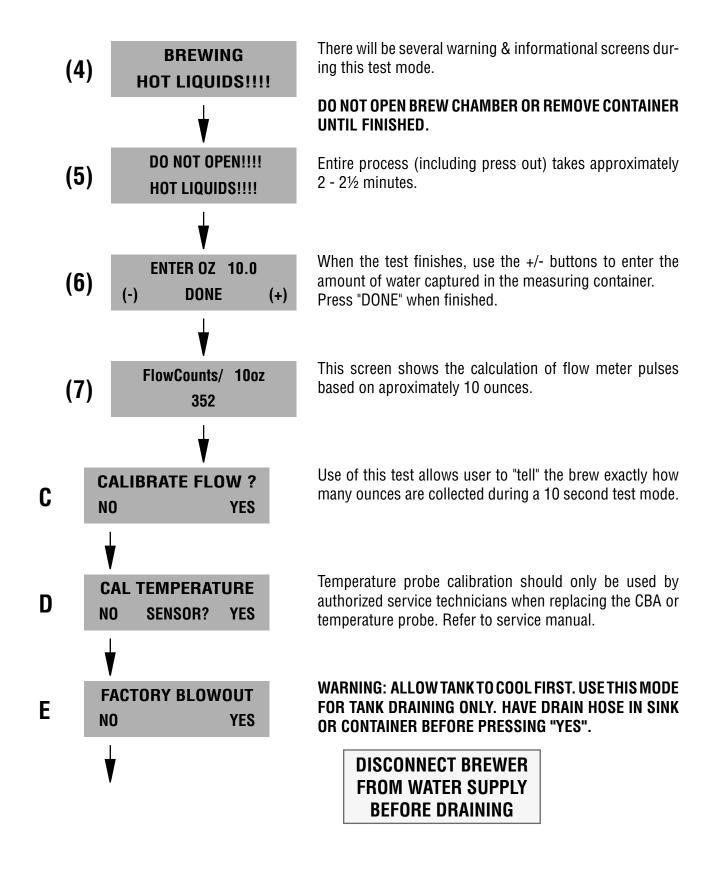


Page 15 42822.1 072810

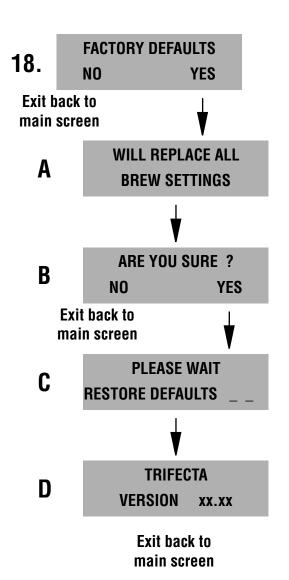




Page 17 42822.1 072810



Page 18 42822.1 072810



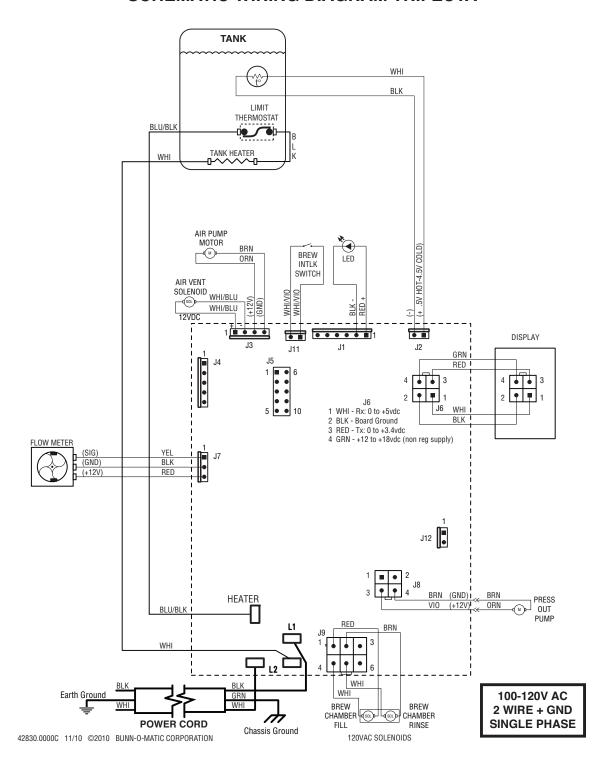
Reset all brew settings, calibrations, temperature adjustments and coffee names/recipes back to factory presets.

EXIT PROGRAM MODE TO MAIN SCREEN

Displays Model and Software version:

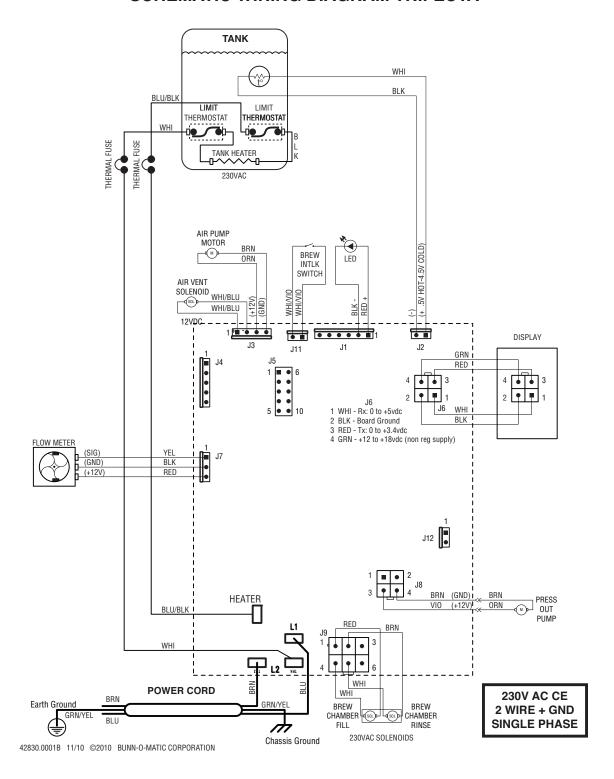
Page 19 42822.1 072810

SCHEMATIC WIRING DIAGRAM TRIFECTA



Page 20 42822.1 010411

SCHEMATIC WIRING DIAGRAM TRIFECTA



Page 21 42822.1 010411