AUTOMATIC PRODUCTS

HOT BEVERAGE MERCHANDISER

MODEL 211 OPERATING SERVICE MANUAL

FOR USE WITH UNIVERSAL MDB LOGIC CONTROL BOARD USING VERSION 7, 8 OR 9 SOFTWARE WITH A LIGHT GREEN, RED OR ORANGE LABEL



DO NOT REMOVE MANUAL FROM MACHINE



Express Warranty

Automatic Products international Itd. (APi) expressly warrants these automatic merchandisers (the "Unit"), manufactured by it, to be free under normal use and service from defects in material or workmanship for a period of two (2) years from the date of delivery of this Unit to the original purchaser. This warranty extends only to the original purchaser of the Unit. The exclusive remedy for this warranty is limited to the repair or replacement, at APi's sole option, of any part or parts of the Unit that are returned to APi or to the authorized dealer or distributor of APi from whom the unit was purchased with all transportation charges prepaid, and which, on APi's examination, shall, conclusively appear to have been defective. This warranty does not:

- a. extend to any Unit, or part thereof, that was subjected to misuse, neglect, or accident by other than APi after its delivery to the original purchaser;
- b. extend to any Unit, or part thereof, that was modified, altered, incorrectly wired or improperly installed by anyone other than APi or used in violation of the instructions provided by APi;
- c. extend to a Unit which has been repaired or altered by anyone other than APi or authorized dealer/distributor;
- d. extend to a Unit which has had the serial number removed, defaced or otherwise altered;
- e. extend to plastic or glass windows, lamps, fluorescent tubes and water contact parts;
- f. extend to any unit used outdoors
- g. extend to accessories used with the Unit that were manufactured by some person or entity other than APi.

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300 Jacksonville Rd. - Warminster, PA. - 18974

INTRODUCTION	1.01
SOFTWARE	1.01
HOW TO USE THIS MANUAL	1.01
SELECTION PANEL LAYOUT	1.02
FEATURES OF API 211 HOT DRINK MERCHANDISER	1.03 1.03
	1.04
	1.05
MACHINE DIMENSIONS AND SPACE REQUIREMENTS	1.06
	2.01
	2.01 2.02
CUSTOMER INFORMATION MESSAGES	
TEST VEND	
	2.02
RELAY BOARD	2.02
MULTIVEND	2.03
COIN MECHANISM	
BILL VALIDATOR	2.03
MASTER MODULE LAYOUT	
SET PRICE AND CHECK PRICE	
SET TIME CHANNELS	2.00
ACCOUNTABILITY	2.00
CUP DISCOUNT PERCENTAGE SETTING	2.07
	2.01
CONFIGURATION TIMING CHARTS	3.01
USING THE CONFIGURATION CHARTS	3.01
CONFIGURATION CHART INDEX	3.01
INGREDIENT GRAM THROW CHART	3.01
INGREDIENT CONFIGURATION CHARTS	
This document is available free of	
SERVICE SECTION	4.01
SANITIZING AND CLEANING PROCEDURES	4.01
PREVENTATIVE MAINTENANCE SCHEDULE	4.02
FUNCTION OF THE BREWER	4.03
BREW CARRIAGE AND CABLE ADJUSTMENT	4.06
ADJUSTMENT OF THE BREW CABLE	4.06
WATER SYSTEM	4.08
WATER DELIVERY SYSTEM	4.08
TANK DRAIN	4.09
THE CANISTER RACK	4.10
CUP DELIVERY SYSTEM	4.12
TROUBLESHOOTING CHARTS	4.14
CUP PROBLEM FLOWCHART	
BOARD PIN CONNECTIONS	4.18
SCHEMATIC DIAGRAM	4.19

TABLE OF CONTENTS

To achieve the most trouble-free operation from your AP211 Hot Drink Merchandiser, it is recommended that this service manual be thoroughly read and the instructions followed pertaining to installation, servicing and maintaining of the unit.

Should you have questions pertaining to this manual or the vendor, please contact your API distributor or write directly to:

Technical Service Dept. Automatic Products int'l. Itd. 300 Jacksonville Road Warminster, PA 18974 USA

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INTRODUCTION

The Automatic Products 211 Hot Drink Merchandiser is the state of the art in vending technology. The AP 211 combines the reliability, durability and simplicity of a time proven hot drink brewing & delivery system with micro-electronics resulting in unsurpassed adaptability to satisfy both your and your customer's needs. The easy to understand, numerical touch pad selection panel provides two strengths of fresh brewed coffee plus a soluble decaffeinated and the availability of fresh brewed tea, each with two levels of lightener and sugar. Chocolate and soup selections are also available as options, which can provide positions for specialty products that may be desired. All selections can be individually priced with the use of a 24 volt, 110 volt, or MDB controller type coin mechanism and bill validator. The translucent canisters and the open canister rack design allow for easy monitoring of product levels to maintain freshness, and ease of regular cleaning to provide your customer with the best possible hot beverage.

SOFTWARE

This manual is written to incorporate the current software which is identified as <u>VERSION 7 or 8</u> indicating that the software is an International Version, used for both export and domestic machines. The microprocessor on the logic board will be identified by a <u>LIGHT GREEN or RED</u> label. **VERSION 7 or 8** Software (LIGHT GREEN or RED label) replaced IV 1.0.9 (PINK label) consolidating all of its functions. The Universal board now supports the ability to interface with a Multi Drop Bus system which utilizes new vending technology for connecting MDB peripherals. The software change enables the delivery of a cold water shot to the beverage cup when equipped with optional hardware. Multi-Vend has been incorporated as a standard feature within the Software controlled through the programming. The software revision can be confirmed by checking the label on the microprocessor through opening in the rear cover of the master module - see page 2.04.

HOW TO USE THIS MANUAL

This manual is divided into four basic sections:

1. Introduction, Features and Installation
2. Electronic Operation and Service Mode
3. Configuration Timing Charts
4. Service, Operation/Adjustments & Troubleshooting

Each section contains in-depth descriptions of the material covered. Specific information that pertains only to Loose Ground (LG) will be identified with **BOLD ITALICS**. Each specific model has a configuration chart in Section 3. These charts will aid you in determining the canister rack layout, channel assignments and label positions. Any reference to a number in a circle (i.e. **0**) indicates one of the buttons of the selection keypad.

- ♦ WATCH THROUGHOUT THE MANUAL FOR THIS ♦
- SPECIAL

 DIAMOND MARK. THIS INDICATES A
 POINT OF SPECIAL INFORMATION OR A HINT
 INFORMATION OR A HINT
- ◆ THAT WILL ASSIST YOU IN SETTING UP, CONTRACTING UP,
- ♦ OPERATING OR TROUBLESHOOTING THE
- ♦ MACHINE.



CAUTION: Certain procedures in both the operating section and the service section require that voltage be on in the machine. Only trained personnel should perform this function. Exercise extreme caution while performing these procedures. These procedures will be marked with the lightening bolt symbol as it appears at left.



CAUTION: Certain procedures in both the operating section and the service section requires a qualified trained technician to perform the particular task at hand. These procedures will be marked with the exclamation symbol as it appears at left.



NOTE: The APi 211 machine operates at a level of less than 75 dba

SELECTIONS

The Universal board supports a number of new selections along with the latest configuration as indicated in the table below. The primary changes are: 1) configuration "0" which will provide Cafe Mocha - a combination of coffee and chocolate, and 2) each selection that requires creme or sugar may have sugar substitute available as selections 5 and 6. This depends on whether the canister rack has soup/Soluble Gourmet Coffee or is replaced with sugar substitute. This is what allows each of the prime selections to have 4 or 6 selections available. A typical coffee selection with sugar substitute would be:

A1	A2	A3	A 4	A5	A6
Black	Coffee	Coffee	Coffee	Coffee	Coffee
Coffee	w/ Creme	w/ Sugar	w/Creme& Sug	w/ Sugar Sub	w/Cr & Sugar Sub

The following chart demonstrates the available combinations of drinks available for each of the configurations. For a machine without sugar substitute, the selections would be 1 through 4, and in models with sugar substitute would include two additional selection codes.

CONFIGURATION	SELECTIONS	SELECTION CODES	ADDITIONAL SELECTIONS WITH SUGAR SUB
0.0	COFFEE X 4 OR 6 CAFE MOCHA X 4 OR 6 TEADECAF X 4 OR 6 CHOCOLATE SOUP/SGC OR SUGAR SUBSTITUTE	A1=>A4 B1=>B4 C1=>C4 C5 C6 SOUP ONLY	A5, A6 B5, B6 D1, D2 (C6 not available)
0.1	COFFEE X 4 OR 6 STRONG COFFEE X 4 OR 6 TEADECAF X 4 OR 6 CHOCOLATE SOUP/SGC OR SUGAR SUBSTITUTE	A1=>A4 B1=>B4 C1=>C4 C5 C6 SOUP ONLY	A5, A6 B5, B6 D1, D2 (C6 not available)
0.2	COFFEE X 4 OR 6 ESPRESSO X 4 OR 6 TEADECAF X 4 OR 6 CHOCOLATE SOUP/SGC OR SUGAR SUBSTITUTE	C1=>C4	A5, A6 B5, B6 D1, D2 (C6 not available)
0.3	COFFEE X 4 DECAF X 4 TEA X 4 CHOCOLATE	A1=>A4 B1=>B4 C1=>C4 C5	NOT AVAILABLE
0.4	COFFEE X 4 STRONG COFFEE X 4 DECAF X 4 STRONG DECAF X 4 CHOCOLATE SOUP/SGC	A1⇔A4 B1⇔B4 C1⇔C4 A5,A6,B5,B6 C5 C6	NOT AVAILABLE

FEATURES OF API 211 HOT DRINK MERCHANDISER

FEATURES

STANDARD FEATURES

- 24V or 110V coin mech and/or validator
- Multi Drop Bus interface capability
- Multi Vend Option

SELECTION SYSTEM

- Four coffee selections, whipped or un-whipped
- Four strong coffee or Cafe Mocha
- Four espresso or tea selections
- Soup or soluble gourmet (i.e. French Vanilla)
- Whipped chocolate
- Easy to understand numeric keypad for selections.
- Easy to change selection labels.

PRICING

- All selections individually priced.
- Free vend feature.
- On-board accountability that includes meters for: vend counter, cash total, free vend counter, and counter for each selection.
- Discount available for customers who "Use Your Own Cup"

OPTIONS

- Whipped soluble gourmet coffee (SGC)
- Fresh brewed tea
- USE YOUR OWN CUP option
- Cold water shot
- Kick Plate

COIN MECH



CAUTION: DO NOT USE A 24 VOLT COIN MECH WITH A 12 PIN PLUG. THIS WILL RESULT IN PERMANENT DAMAGE TO THE COIN MECH AND/OR VENDING MACHINE.



MODELS AND CAPACITIES

Ingredi	ent:	Capacities I			
Regular	r Ground Coffee	6.0	-		
Freeze	Dried Coffee	-	1.0		
Tea	Leaf-Fresh brewed	2.5	2.5		
	or Instant	1.5	1.5		
Sugar		4.0	4.0		
Whitene	ж Э	2.0	2.0		
Chocola	ate	9.0	9.0		
Soup		5.0	5.0		
SGC		4.0	4.0		

LG

FD

Most canisters are expandable to match inventory to usage.

CUP CAPACITY: 7 oz = 550 81/4 oz = 480

SPECIFICATIONS

DIMENSIONS:

Height: 72 inches (1829mm) Depth: 29 inches (737mm) Width: 29 inches (737mm)

ELECTRICAL AND WATER REQUIREMENTS:

Electrical: 120 Volts AC; 60 Hz; 20 Amp Dedicated Outlet

Water: Potable cold water, 20 psi minimum

SHIPPING WEIGHT

Freeze-dried Model 360 lbs. (164 Kg) Loose ground Model 400 lbs. (182 Kg)



NOTE: DO NOT ATTEMPT TO OPERATE TWO DIFFERENT PERIPHERALS SIMULTANEOUSLY. MDB WITH PULSE OR MICROMECH OR VISA VERSA.

	Micro Mech 110V 12 pin	Micro Mech 24V 15 pin	Pulse - 24 V	Pulse - 110 V	MDB Coin Mechanism	MDB Bill Validator
Mars	TRC-6000 MC5000 VN-4000	TRC-6010XV VN4010XV	VN2502-U5E VFM1-L2-U4C VFM3-L2-U4C	VN2501-U5E VFM1-L1-U2C VFM3-L1-U2C	TRC-6510 TRC-6512 VN-4510	VN2502-U5M
CoinCo	9300L	9302 LF USD-L701	BA32SA BA32R	BA30SA	9302-GX, USD-L701	BA32SA BA32R
Ardac				USA 15 88X5023		
Conlux	USLX-001-01F	USLX-004-01F			USLZ-004-01F	USLZ-004-01F

APi 211 INSTALLATION AND SET-UP INSTRUCTIONS

INSTALLATION

 NOTE: INFORMATION PRINTED IN BOLD ITALICS APPLIES TO FRESH BREW MACHINES ONLY.

Unpack the vendor:

- 1. Remove shipping carton and plastic bag from vendor. Inspect exterior of cabinet for damage.
- Remove clip from lock handle and open front door. If machine is equipped with a lock, the keys will be in the cup well. Inspect cabinet interior for evidence of damage. If damage is present, a damage report should immediately be filed with the carrier.
- 3. Remove packing tape from *coffee hopper swing out bracket*, cup dispenser door, commodity trough and steam deflector, overflow *and grounds* waste floats. Remove cardboard canister retainer over canisters.
- SAVE CANISTER RETAINER FOR REUSE IF MACHINE IS TO BE RESHIPPED.
- Remove all cartons from floor of machine. These cartons will contain the *LG coffee hopper* & kickplate (if so equipped).

LOCATION SITE REQUIREMENTS

This vendor requires an external source of water and electricity for operation. The minimum requirements for these utilities are as follows:



CAUTION: THIS MACHINE IS DESIGNED FOR INDOOR USAGE ONLY. ANY OTHER USAGE MAY VOID THE MANUFACTURERS WARRANTY

WATER

The installation site must have a cold drinking water supply line that can be permanently coupled to the vendor. The water line should be one-half inch minimum diameter and be equipped with a manual shutoff within six feet of the machine. Water pressure should maintain 20 psi minimum while the vendor is taking on water. If incoming water pressure exceeds 90 psi, a pressure regulator should be installed in the line. The fitting provided on the rear of the machine is a 3/8" female flare thread.

ELECTRICITY

A grounded <u>DEDICATED</u> electrical outlet rated at 120 volts, 60Hz, single phase and capable of delivering 20 amperes must be available within six feet of the vendor. See page 1.05 figure 1.2.

SET-UP INSTRUCTIONS



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

Set up the vendor at the location as follows:

- 1. Carefully level the vendor front to back and side to side.
- Swing coffee hopper support bracket out and install hopper. Be sure to engage auger driver with motor drive pin.
- Align the coffee delivery chute on the swing out bracket and position for best possible delivery of grounds to brewer.
- Install water filter cartridge (if so equipped) by performing following:
 - A. On filter head, shut the internal valve off by moving the lever fully counter clockwise
 - B. On cartridge, write the date & current machine vend count on label in specified box.
 - C. Locate the two opposing ears on the top metal section of the cartridge. Hold and position cartridge under the filter head and align one of these ears between the label on filter head. Insert the cartridge straight up as far as it will go. You should feel the two "O" rings snapping into place. Upon feeling this, turn the cartridge to the right turn until it stops (approx. 1/4 turn).

IMPORTANTI WHEN REMOVING OR REPLACING WATER FILTER CARTRIDGE SEE PAGE 4.09 IN SERVICE SECTION.



- Remove shipping screw and nut from base of cup dispenser and remove screw from the cup dispenser latch at the top left side of the shadowbox.
- Connect the vendor to the water supply line using 3/8" O.D. soft copper tubing (or similar plastic tubing) allowing one complete coil, approximately three feet in diameter, between the water supply line and vendor. This will allow movement of the vendor for cleaning and reduce noise due to water pressure surges.
- 7. Plug machine into a 120Vac 20AMP DEDICATED receptacle. Wall outlet must be wired for proper voltages shown below in Figure 1.2. Set all switches to the on position. On the filter head, open the water valve lever by slowly turning fully clockwise. Check that the tank starts to fill and that there are no leaks.
- DO NOT LIFT THE FLOAT ROD OR SWITCH WHILE THE TANK IS FILLING. THIS WILL SIGNAL THE HEATER CIRCUIT THAT THE TANK IS FULL AND THE HEATER WILL BE TURNED ON REGARDLESS OF THE LEVEL OF WATER IN THE TANK.



Figure 1.2

- NOTE: should the readings be below 105Vac or above 133Vac, have a certified electrician correct the problem.
- 8. Remove the packing block from the coin return button.
- 9. Remove packing tie downs holding the humidity bar.
- Loosen the two screws holding the brewer grounds splash guard on the front of brewer. The shield is designed to be able to swing a little as the spent grounds fall against it.
- Install grounds bucket liner (supplied). Install grounds bucket behind front flange of rear splash guard. Be sure that the float is inside the bucket.
- Install overflow bucket against guide on lower left corner of machine. Be sure that the float and overflow hose(s) are inside the bucket.

- 13. Fill canisters and hoppers with product.
- 14. Open cup dispenser door and load with cups.
- Remove power and install correct coin mechanism and/or bill validator. See page 2.03 for list of correct coin mechanisms and validators. Connect all harnesses and restore power.
- 16. Lift latch at top of cup cabinet and swing cup cabinet open. Install selection labels through slots on right edge of menu panel. Specific positions for each label are not assigned, however normal practice places the selections alphabetically by selection from top to bottom. The top position is normally reserved for the Automatic Products label. Labels required differ in each configuration - see configuration chart for your model.
- 17. Access the service mode and set prices for all selections. See page 2.05 for specific instructions on setting prices.
- SETTING PRICES TO 00 WILL SET A SELECTION TO FREE VEND.
- SETTING A PRICE ABOVE 99.95 OR BELOW 00 WILL DISABLE A SELECTION AND CAUSE A "d" TO APPEAR IN THE LED DISPLAY. WHEN THE SELECTION IS PRESSED THE "MAKE OTHER SELECTION" LED WILL LIGHT. THIS IS USEFUL FOR BLOCKING UNUSED SELECTIONS OR DISABLING A SELECTION WHEN IT IS OUT OF ORDER.
- 18. Access the service mode and set the ingredient times, configuration, and option functions. See pages 2.01 through 3.01 for specific instructions on how to set ingredient settings and how to use the configuration charts. Factory settings should be regarded as approximations, and we recommend that all ingredient throws be checked with a gram scale, because of variations in product and taste.

BREW WATER ADJUSTMENTS

Setting the amount of water for brewed coffee selections is done by adjusting the duration (button ⊕) of channel 1. If a soft water condition exists, then the addition of a separate addwater switch kit may be necessary. DO NOT ATTEMPT TO ADJUST THE FRONT CAM TO CHANGE THE AMOUNT OF BREW WATER!

The method used to allow all of the brew water to be delivered directly into the brewer, is accomplished by the addition of a relay, the Brewer Fill Relay (BFR), to the left side of the brewer. The coil of this relay is energized when the brewer valve has power applied to it via channel 1. The duration of channel 1 directly controls the length of time that the valve is open and delivering water into the brewer. The contacts of the BFR interrupt the voltage to the brewer motor to hold the brewer in the open position until all the required brew water is delivered. After all the water is in the brew cylinder, the BFR restores voltage to the brewer motor and it completes the cycle.

MACHINE DIMENSIONS AND SPACE REQUIREMENTS



OPERATING SYSTEM

INTRODUCTION

The control system in the AP211 is comprised of two basic components: the Master Module and the relay board. The Master Module is located in the door and can be removed easily. The relay board is mounted on the rear wall of the cabinet directly above the canister rack. The two boards communicate via a 12 wire interconnect harness, which runs through the junction box, located in the upper left front corner of the cabinet, under the door hinge.

MASTER MODULE

The master module is comprised of the logic board, the keypad selection panel, the LED indicators and a four digit display to communicate with customers. If utilizing the Multi Drop Bus option the control board must be P/N 37628 which can be identified by a large round shape capacitor that protrudes through the board cover. If equipped with fresh brew tea the master module may contain a solid state relay that controls the cycling of the tea brewer motor. In newer units this relay has been relocated to the shadow box panel. The master module is located on the door adjoining the left hand jamb of the shadow box and is accessed by swinging out the cup cabinet. The selector keypad portion of the module is mounted through a opening in the menu panel. The master module can be removed from the door by loosening four fasteners.

The logic board contains the three switches which control the access to the service mode and the dispensing of coins from certain coin mechanisms (see Figure 2.1). These switches can be accessed through an opening inside the cup cabinet. In the operate mode, pressing the top switch will payout nickels, pressing the middle switch will payout dimes, and pressing both of these switches together will allow quarters to be paid out. Pressing the bottom mode switch once allows access to the Service Mode. The service mode controls four functions: price setting, accountability, test vend and access to the channels which controls the dispense times of all ingredients, machine configuration and other optional settings.

The logic board contains the electronic components which control the functions of the machine during a vend. The information required to operate the machine during a vend is permanently stored by a device which combines a micro-processor and OTPROM (One Time Programmable Read Only Memory). The dispense time of each commodity and its sequence in the vend cycle is controlled by the micro-processor. Precise time adjustments determine the exact amount of ingredients dispensed. This exact time sequence ability enables accuracy to 1/10 of a second. These times are permanently stored on the board and do not require a battery to retain them even if power is removed from the machine.

Price setting is done by entering the service mode and pressing the selection whose price is being set. This will cause the current price to be displayed on the master module's display. The price can then be increased or decreased by pressing the # or * buttons respectively. See page 2.05 for specific information regarding price setting.

The channels numbered 00 through 23 control the ingredient settings, configuration, cup discount %, function of the cup sensor, multi-vend, and cold water shot option. Each channel has two separate settings within each channel. Channels are accessed by pressing the mode

switch once, pressing button **①** will step up through each channel in sequence. Channels 01 through 14, 20, and 21 have two settings which are referred to as **START** and **DURATION**. Channels 15 through 19 and 22, 23 each control specific functions such as durations and option settings according to the configuration of the machine. The

channel settings are accessed by pressing button $\boldsymbol{\mathcal{O}}$ (START) or

button **(DURATION)** on the selection keypad. Each of these settings can be adjusted by increasing or decreasing the digits shown on the master module display by pressing the increase digit (# button) or the decrease digit (* button - see Figure 2.2). The function of each channel is determined by the configuration of the machine. The configuration of the machine is set in channel 16 button **(3)**. See Chart 2.1 on page 2.06

for additional information.

The **START** time of each channel indicates the exact time each function or commodity begins in each vend cycle. Each vend cycle starts at 0.0 upon pressing a selection. All times are permanently stored to guarantee the correct sequence of operation.

The **DURATION** determines the length of time within the vend cycle that each channel will operate. The amount of ingredient for a selection is controlled by adjusting the duration. After confirming that the duration for product and liquids are set correctly, cup levels should be set by adjusting the flow restrictor on the commodity valves.

The settings in the channels for ingredients should be regarded as approximations and we recommend that all ingredient throws be checked with a gram scale.

DEFINITION OF CANISTER RACK TROUGH LAYOUTS

The canister rack configurations are designated by a number that represents the number of mixing bowls or troughs, and the number of canisters in each section, reading the rack from left to right. An example would be a standard canister rack, from left to right chocolate, soup, sugar, creme, sugar sub, soluble Decaf and tea. This would be represented as 1-1-5. The chocolate and soup each have their own mixing bowl, while the balance of the canisters are mixed along with the fresh brewed coffee in a common mixing channel. See figure below... For additional canister rack configurations, see the index chart on page 3.01. This will also direct you to the correct configuration chart, recipes, label assignments and canister assignments.



CUSTOMER INFORMATION MESSAGES

The front side of the logic board has five LEDs and a four digit display positioned so that they are aligned with five customer information messages through windows on the master module label - see page 2.04. These five messages are:

CHECK PRICE	This LED will light for 2 seconds when a selection is made but insufficient credit has been established. The correct vend price will also be displayed.
USE EXACT CHANGE	This LED will light when the coin mech signals the logic board that an insufficient number of coins are available for payback.
MAKE ALTERNATE SELECTION	This LED will blink for two seconds when a disabled selection, a non existent selection or a selection with a defective motor is chosen.
COFFEE BREWING	This LED will light while a hot drink vend is in progress.
COFFEE MACHINE OUT OF SERVICE	This LED will light when the coffee machine is in an Out of Order condition caused by full waste and/or grounds buckets , a low water condition in the heater tank or the absence of cups in the cup cabinet.

Directly above the LEDs is a four digit display that will show both numbers and letters to correspond to all available selections and will display both prices and amount of any money deposited. On power up, all LEDs and all segments of the displays will be illuminated for 2 to 8 seconds indicating logic board is initializing and scanning peripherals.

ALPHA-NUMERIC SELECTION KEYPAD

The alpha-numeric keypad selection panel consists of the letters A,B,C and D and numbers 1 through 6 and additional keys marked # and *****, see page 2.04. All selections are made with a letter/number combination (example A1,B3 etc.) and the # and ***** buttons are used to add extra lightener and/or extra sugar respectively to a vend. The buttons also have additional functions within the service mode; for time setting for ingredients, the # button will increase the displayed number in .1 second increments, the ***** button will decrease a displayed number by the same increment; for price setting # and ***** will increase or decrease the price in 1 monetary unit increments.

 Pressing (5) and (6) will increase and decrease the price by units of 10 monetary units.

TEST VEND

An additional function included in the service mode, is the control system allows button **O** to deliver a test vend <u>without a cup or extras</u>. This returns you to the service mode after the test vend and can be very helpful if used while setting the ingredient throws.

ACCOUNTABILITY

Accountability for a Universal MDB Control Board with Version Seven Software is internally contained in the nonvolatile memory on the logic board. This internal accountability is supported by individual readings: total vends, total cash, total vends for each selection, and total free vends in non-resettable electronic counters. Steps for retrieving accountability information can be found on page 2.07

CUP DISCOUNT PERCENTAGE SETTING

The Universal Control Board also provides a means to set a price reduction referred to as a cup sensor discount. The cup sensor discount provides a method to reward a customer for using their own cup or mug. This cup sensor discount is expressed as a percentage of the total vend price. This percentage is entered as a three digit number

in Channel 18, **2**. A machine with a cup sensor discount set to 00% would provide the customer with no discount for using their own cup, while one set to 100% would provide a free vend if a customer used their own cup. The steps for setting the cup sensor discount can be found on page 2.07

RELAY BOARD

The relay board is mounted on the rear wall of the cabinet directly above the canister rack. This relay board converts the logic level information supplied by the logic board's 23 channels into activation of one or more of the eleven 120Vac output lines to produce a property timed hot drink vend. The relay board also contains the logic level connections for the cup sensor, Vend Enable Relay, and free vend jumper.

VEND ENABLE RELAY

The Vend Enable Relay (VER) is located below and to the right of the relay board on the rear wall of the cabinet. The purpose of this relay is to provide an interface between the 120V circuit which runs through the sold out circuit (waste buckets, cup sold out and heater safety/water level) and the logic level vend enable circuit. The coil of the relay is the input from the sold out circuit and when the switch of the relay is closed, the vend enable circuit is completed.

FREE VEND

Free vend for the entire machine is provided by a two pin jumper located adjacent to the Vend Enable Relay Solenoid Coil, below the relay board. The two pin connector in the machine harness may be connected to the two wire jumper plug to place the machine in continuous free vend. The two wire jumper could also be cut and spliced to an external key switch or timer assembly to further control the free vend function.



THE FREE VEND FUNCTION IS CREATED BY A CLOSED CIRCUIT. DO NOT APPLY VOLTAGE TO THIS CONNECTOR!

MULTIVEND OPTION

Multivend allows Multiple vends, credit permitting, without paying back change between vends. To Enable the Multivend Option, set channel 22, button **#®**, to a non-zero value (00.1). To Disable the Multivend Option, set channel 22, button **#®**, for Zero (00.0)

When Multivend is in the (00.1) "on" mode after a dollar bill or change is inserted, it will register the amount on the digital display. When a selection is made the amount on the digital display will deduct the price of that selection. At this time the total cash will be displayed of the amount left of that dollar so that another selection may be made without inserting more money. You, therefore, can push the coin return for your change or make selections until the digital display reads below the lowest selling price in the machine, then the restof the money will be paid back/returned automatically.

COLD WATER SHOT (OPTIONAL)

A one ounce shot of cold water is dispensed into a hot drink to lower the temperature. An additional valve is connected to the water inlet assembly. The cold water shot is controlled through the logic control board and a solid state relay via channel 23 in the program.

 If cold water shot is added, all water channels must be adjusted to compensate for the extra volume of water supplied to each product.

COIN MECHANISM REQUIREMENTS

This machine requires the use of one of the following coin mechanisms: (please refer to the specifications section page 1.03 of this service manual for specific models.)

The machine is equipped for 110V, as indicated by the presence of 110<u>VDC</u> at pins 10 & 12 of the coin mech socket, and a property wired power board located on the back of the master module, or 24VDC at pins 13 & 15 of the coin mech socket.

MULTI DROP BUS COIN MECH

The Multi Drop Bus system utilizes 24 volt supply and functions through serial communication links to poll and monitor peripheral equipment (i.e. coin mech, validator, card reader, etc.) from the control board. One of the advantages of this system is that peripherals only require five wires connected between each other to work which greatly reduces harness hardware in machine. Harness P/N 680576 is required for MDB hook up between the logic board, coin mech and bill validator.

BILL VALIDATORS

When installing, check for proper switch settings in the validator for use in the model 211 Hot Beverage Machine. Bill validators using the full face NAMA standard will fit into an opening directly above the coin entry bezel. The 211 Hot Beverage Machine is also equipped to operate with a 110VAC or 24AC Bill Validator.

The power connections for the validator are located in the hamesses dressed along the door stiffener below the access slots for the selection labels. The connection for the 24V validators will be a 3 pin plug with two double yellow wires. The connection for a 110V validator will be an identical 3 pin connector with a white and blue pair of wires. The universal voltage (24 & 110V) Mars / CoinCo / Maka validator hamess is P/N 35921. Hamesses for other validators should be obtained directly from the manufacturer. Before installing a validator, the validator opening cover and the security backing plate must be removed.

EXITING THE SERVICE MODE

The service mode can be exited at any time by one of the following:

- Depress mode switch once.
- Remove and reapply power to machine or control board.
- The machine will exit the service mode after 25 seconds without depressing any switches.



MASTER MODULE LAYOUT

SET PRICE AND CHECK PRICE



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

- 1. Enter the service mode by pressing the mode switch on the control board once. Display will be blank.
- Depress the desired selection (example A1), and the current price for that selection will appear on the display. This is the 'CHECK PRICE' function. Maximum price available is 99.95. Minimum price is 00. Scaling factor, actual value of coins required and position of decimal point are determined by the coin mechanism. If a "d" appears, then the selection is disabled.
- To increase the current price, press and hold the "#" button until the desired price is reached.
 To decrease the current price, press and hold the "#" button until the desired price is reached.
 To change a selection from disabled to active, increase or decrease the price until the desired price is obtained.

To lock (enter) a price that has been changed, press **0**, **2**, **3**, or **4** button or choose another selection.

- IF "COFFEE MACHINE OUT OF SERVICE" LED ISLIT, TEST VEND WILL NOT WORK.
- PRESSING WILL PROVIDE A TEST VEND <u>WITH</u> OUT A CUP OR EXTRA CREME OR SUGAR.
- SETTING PRICES TO 00 WILL SET A SELECTION TO FREE VEND.
- SETTING A PRICE ABOVE 99.95 OR BELOW 00 WILL DISABLE A SELECTION AND CAUSE A "d" TO APPEAR IN THE LED DISPLAY. WHEN THE SELECTION IS PRESSED THE "MAKE OTHER SELECTION" LED WILL LIGHT. THIS IS USEFUL FOR BLOCKING UNUSED SELECTIONS OR DISABLING A SELECTION WHEN IT IS OUT OF ORDER.



CONTROL BOARD SWITCH FUNCTIONS FIGURE 2.1

SET TIME CHANNELS

For channels 15 through 23 the 29 and 39 button set



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

- 1. Enter the service mode by pressing the mode switch on the control board once. Display will be blank.
- 2. Review the configuration sheets starting on page 3.02 and find the timing chart with the selection panel and canister rack drawing that matches your machine setup.
- 3. Access the desired channel by pressing button **O**.

Pressing button **1** repeatedly will increase the channel number shown in the LED display. See chart for definition of channels for appropriate models.

4. For channels 1 through 14, pressing button 🕑 will display the **START** time for each specific channel. Pressing button

3 will display the **DURATION** for each specific channel.

Changing the duration will change the gram throw or amount of water for each channel. See accompanying charts for the specific function of the channels by model and/or configuration.

 To increase the current time for either START or DURATION, press and hold the # button until the desired time is reached.
 To decrease the current time, press and hold the * button until the desired time is reached.

To lock (enter) a time that has been changed, press $oldsymbol{0}$,

2. **3** or **4** button.

PRESSING BUTTON WILL ESTABLISH A TEST
 VEND (WITH NO CUP DELIVERED) AND ENTER ANY
 CHANGES TO A START OR DURATION TIME - THIS
 ALSO LEAVES THE MACHINE'S CONTROL SYSTEM IN
 THE SERVICE MODE WHICH ALLOWS YOU TO
 RETURN TO CHANNEL 1 WITHOUT PRESSING THE
 MODE SWITCH.

- 6. specific functions as defined in the chart below.
- 7. Machine configuration Channel 16 button 3 must be set
- correctly in order for the logic board to recognize which machine setup it will operate.
- ♦ CHANNELS 18-23 PRESENT ONLY IN UNIVERSAL MDB CONTROL BOARD W/SOFTWARE IV1.0.9 (PINK LABEL)
 - OR HIGHER VERSION WITH A DASH NUMBER.
- CHANNELS 18-21 PRESENT ONLY IN UNIVERSAL BOARD W/SOFTWARE IV3.0.4 (YELLOW LABEL).



FUNCTION OF SELECTION SWITCHES IN SERVICE MODE

FIGURE 2.2 CHART 2.1 FUNCTIONS FOR CHANNELS 15 through 23

CHANNEL	BUTTON 2 FUNCTION	BUTTON 3 FUNCTION			
15	COFFEE EXTRA LIGHTENER DURATION	EXTRA SUGAR DURATION			
16	TEA EXTRA LIGHTENER DURATION	MACHINE 00.0 FD, LG WITH CAFE MOCHA CONFIGURATION 00.1 FD, LG (STANDARD) 00.1 FBC/ FDC, LG, LGT, 2 SGC (Soluble Gourmet Cof.) 00.2 FD, LG ESPRESSO / 5SGC (Soluble Gourmet Cof.) 00.3 FDD, LGD, FDT, LGT 00.4 FDDS, LGDS			
17	CUP DROP PULSE DURATION STANDARD SETTING = 1.4	CUP SENSOR CONFIGURATION 00.0 STANDARD-WILL DELIVER CUP EVERY VEND 00.1 CUP SENSOR INSTALLED, WILL NOT VEND UNLESS CUP IS PRESENT			
18	CUP DISCOUNT %	ESPRESSO WATER % (CONFIGURATION 0.2 ONLY)			
19	CAFE MOCHA COFFEE WATER DURATION	CAFE MOCHA COFFEE AUGER DURATION			
20	CAFE MOCHA CHOCOLATE START TIME	CAFE MOCHA CHOCOLATE AUGER DURATION			
21	CAFE MOCHA CHOCOLATE START TIME	CAFE MOCHA CHOCOLATE WATER DURATION			
22	CARAFE MODE 0.0=OFF 1.0=ON (Export Only)	MULTIVEND OPTION			
23	COLD WATER SHOT START PULSE	COLD WATER SHOT DURATION			

ACCOUNTABILITY

Accountability is now internally contained in the nonvolatile

SELECTION PANEL

ACCOUNTABILITY

Accountability is now internally contained in the nonvolatile memory on the logic board. This function was previously supported by 3 external meters. This internal accountability now supports as individual readings: total vends, total cash, total vends for each selection, and total free vends in non-resettable counters. The steps for obtaining this information are;



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS

- 1. Press service switch one time.
- TOTAL CASH: Press 6 the display will alternately show 2. the left four digits followed by the right four digits of the Total Cash accepted including a decimal point.

Press 6 - display shows "0000" EXAMPLE: then display shows "03.40" This represent a total of \$3.40 total cash accepted.

- 3. TOTAL VENDS: Press 6 followed by the letter A followed by D. The display will show "Ad", and then the display will show the Total Vends for all selections.
 - EXAMPLE: Press 5 then A followed by D Display shows "Ad" Display will show "0000" then display shows "0053" This would represent a total of 53 total vends.
- TOTAL # OF VENDS: Press 5 followed by a selection 4. code and the Total # of Vends for that selection will be displayed. Press 🕤 then "A1"

EXAMPLE:

Display will show "0025"

This would represent a total of 25 vends of selection A1. Step 4 can be repeated as many times as required with other selections.

5. TOTAL # OF FREE VENDS: Press (1) and display will indicate the Total # of Free Vends.

Press (display will show "0000" EXAMPLE: then display will show "0019" This would represent a total of 19 free vends.

NOTE: Counters for vends by selection are limited to 4 positions and will reset to 0000 after 99.99.

CUP DISCOUNT PERCENTAGE SETTING

The new Universal Control Board will also provide a means to provide a price reduction referred to as a cup sensor discount. This cup sensor discount is expressed as a percentage of the total vend price. This percentage is entered as a three digit

number in Channel 18, 29. A machine with a cup sensor discount set to 00% would provide the customer with no discount for using their own cup, while one set to 100% would provide a free vend if a customer used their own cup. The steps for setting the cup sensor discount are:

1. Press service switch one time.

- 2. Press **1** and hold; The display will show the ingredient setting channels starting with channel 0 and increasing as the **1** is held.
- 3. Advance the display until channel 18 is shown.
- Press 22 and use the * or # key until the required % is 4. displayed.

To lock (enter) a discount % that has been changed, press 0, 8 or 4 button.

SEE TABLE BELOW FOR SETTING THE CORRECT PERCENTAGE BASED UPON VEND PRICE IN USE.

17

TO USE DISCOUNT % TABLE: locate all the vend prices you have in use in the machine. By referring to chart, pick the shaded area that includes all your prices. Enter the percentage at the top of that column into channel 18, $m{arrho}$

PRICE	8%	9%	10%	12%	15%	17%
15¢						
20¢		NO DI	SCOUN	т		
25¢				and the second	nor reakables	
30¢				Section and the second		
35¢			line of the second	ระเจา นี้สังวิตกล์เป็นสู	Martin cide of	Sector protocological
40¢	and the second			and the second secon		
45¢						>10¢
50¢						

DISCOUNT PERCENTAGE TABLE FOR 5¢ DISCOUNT PER CUP WHEN USING YOUR OWN CUP

10% 15% PRICE 9% 8% 12% 55¢ 60¢ 65¢ 70¢ 75¢ 80¢ 10¢ OR GREATER 85¢ DISCOUNT

900

USING THE CONFIGURATION CHARTS

The pages included in Section 3 of this manual, starting with page 3.02, consist of configuration charts for each of the different arrangements available for this machine. Each configuration chart contains a drawing of the (A) canister rack layout, (B) the assignment of labels on the door, and (C) a timing chart that displays the function and factory standard times of each of the channels in the machine. These charts will greatly assist in understanding and setting up your machine. Compare the canister rack (A) in your machine to the drawings on the configuration charts to identify which is yours. If you do not have all the canisters shown on the drawing, ignore the channels for those selections while setting up the machine.



SELECTION: COF/ SG COF / CHOC / CAPP / FB TEA



	THINC CUAPT 21		DOMESTIC-MA	CHINE CONFIGURATIO	DN (00.1
199M		I	Y (BUTTON) NO. 2	CHANNEL		EY (BUTTON) NO. 3
DHUHD	CHANNEL DESCRIPTION	LINE No.	VALUE	DESCRIPTION	L₽NE No.	YALUE
0	LONG DELAY THE	N/A	23.0 (SECONDS)	SHORT DELAY TIME	N/A	· 12.0 (seconos)
1	BREWER, WATER START	1	2.5 (SECONDS)	BREWER DURATION	1	6.2 (SECONDS)
2	COFFEE START	2	0,0 (5500005)	COFFEE DURATION	2	1.7 (SECONDS)
3	LIGHT START (COFFEE)	3	14.2 (3600068)	LIGHT OURATION (COFFEE)	3	0.8 (SECONDS)
4	SUGAR START (COFFEE)	4	13.7 (SECONDS)	SUGAR DURATION (COFFEE)	4	1.0 (SECONDS)
5	SOCI START	. 5	1,5 (3800408)	SOCI DURATION	5	4.0 ISECONDS)
6	SOC1 WATER START	6	0.0 (3800000)	SOCI WATER DURATION	6	7.3 (#200405)
7	SGC2 START/SOUP	7	1,5 (2600406)	SEC2/SOUP DURATION	7	4,0/1,0 (SECONDS)
8	SOCZ WATER, WHEPPER START	8	0.0 (SECONDS)	SOCZ WATER, WHETHER DURATION	8	7.3 (SECONDS)
•	CHOCOLATE START		1.5 (\$50005)	CHOCOLATE DURATION	9	4.4 (360005)
10	CHOCOLATE WATER, WHIPPER START	10,	0.0.155004063	CHOCOLATE WATER, WHIPPER DURATION	10	7.2 (SECONDS)
11	XXXXXXXXXXXXXXXXXXXXXXXX	ы.'	0.0 (19500406)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	4	0.0 (3800403)
12	STRONG COFFEE START	2	0.0 (SECONDAL)	STRONG COFFEE DURATION	Z	2,5 (SECONDS)
13	XXXXXXXXXXXXXXXXXXXXXXX	3	0.0 (3600408)	*******	3	0.0 (SECONDS)
14	XXXXXXXXXXXXXXXXXXXXXXX	- 1	0.0 (180000)	THEFT AND A PARTY	-	Q.O (SECONDS)
15	EXTRA LIGHT DURATION (COFFEE)	3	0.2 (SECONDS)	EXTRA SUGAR OURATION	4	0.3 (SECONDS)
16	EXTRA TEA LIGHT DURATION	3	0.1 (5600405)	MACHINE CONFIGURATION CODE	N/A	0.1
17	CUP DROP OURATION	11	1.4 (3500406)	CUP SENSOR CONTROL	N/A	0.1
18	CUP DISCOUNT	N/A	00 (200006)	ESPRESSO COFTEE WATER MERCENTAGE	•	70
19	CAVE MOCHA COFFEE WATER DURATION	1	4.1 (SECONDS)	CAFE MODHA COFFEE AUGER DURATION	2	1.2 (SECONDS)
20	CAFE MODIA CHOC AUGER START THE	9	16.0 ISECONDS	CAFE MOCHA CHOC AUGER DURATION	9	1.4
21	CAFE MOCHA CHOC WATER/INHEFTER START	10	15.0 (accres)	CATE MODIA CHOC WATER/WHIPPER DURATION	10	2.8 (SECONDS)
22	CARAF WODE 0:0-OFF/1.0-OK EXPORT ONLY)	N/A	0.0 (SECONDS)	HELTINEND 0.0-OFF/1.0-ON	N/A	0.0 (SECONDS)
23	COLD WATER SHOT START PULSE	Ŷ	2.0 (3200408)	COLD WATER SHOT OURATION	Y	2.0 (seconos)

All of the DURATION times in the following configuration charts are factory settings for 81/4 oz cups. If 7 oz cups are to be used multiply the duration times on the chart by a scale down percentage of 85%.

Example: Sugar Duration Time

1.0 second for $8\frac{1}{4}$ oz cup <u>X .85</u> scale down % for 7 oz =0.85 seconds for 7 oz cup

Remember, factory standard times are a starting point and we always recommend that all ingredient throws be checked with a gram scale, because of variations in product and customer preference.

INDEX FOR CONFIGURATION CHARTS 211

Loose Ground Models	Page
LG (Full Rack no Fresh Brew Tea)	3.02
LG (Full Rack Fresh Brew Tea)	3.03
LG (Coffee Two SGC's)	3.04
LG (Full Rack W/ Decaf and Tea)	
LG (Full Rack W/ Strong Decaf no Tea)	3.06

Freeze Dried Models

FD (Standard Full Rack no Fresh Brew Tea) 3.07	
FD (w/Fresh Brewed Tea) 3.08	
FD (Coffee W/ Two SGC's) 3.09	
FD (w/All SGC Selections) 3.10	
FD (w/Decaf & Tea) 3.11	

INGREDIENT GRAM THROW SPECIFICATIONS

Examine your ingredient package for ingredient amounts. Use product manufacturers recommendations for ingredient throws. All gram throws below are approximations. Always take three test vends and average for best accuracy, except for products like chocolate where the product quantity exceeds scale capacity. Some lightener products are super fine and will clog louvers in spout. The solution is to remove the louvers or replace the spout. Louvers must be removed when changing from "SANKA" to a no name FD coffee. Soluble Gournet coffees must use 180 RPM motors to deliver a sufficient amount of product during the allotted time. Prior to measuring product, ensure the gram scale is properly adjusted. To zero adjust the gram scale place a nickel on the scale and set weight for exactly five grams.

211 RECON	IMENDED GRAM 7oz Cups	THROWS 81/4 oz Cups
Coffee	7 - 7.5	8 - 8.5
Lightener	1.5-2	2 - 2.5
Sugar	5 - 5.5	6.5 - 7
FD Coffee	1.2	1.5
FD Tea	1.2	1.5
FB Tea	2.5	3 - 3.25
Soup	5 - 5.5	6 - 6.5
Chocolate	20-22	24 - 26
SGC	14 - 15	17 - 18

Image: constraint of control in a constraint of c						
Image: Note: Control Image: Note: Control Contro Control Control	CHANNEL	Ř		CHANNEL	(BUTTON) NO.	
Number State Number State Number Number <th>DESCRIPTION</th> <th>LINE No.</th> <th>VALUE</th> <th>DESCRIPTION</th> <th></th> <th>· · · ·</th>	DESCRIPTION	LINE No.	VALUE	DESCRIPTION		· · · ·
1 2.3 constrained Constaned Constrained <t< th=""><th>DELAY TIME</th><th>N/A</th><th>(SECONDS)</th><th>SHORT DELAY TIME</th><th>12.0</th><th>3 NAUVE</th></t<>	DELAY TIME	N/A	(SECONDS)	SHORT DELAY TIME	12.0	3 NAUVE
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3 1/2	EE AUGER START	2	_	COFFEE AUGER DURATION	1.7	
1 13.1 means 10.1 means	ë light auger start	3	_	COFFEE LIGHT AUGER DURATION		7
A 5 2 0	SUGAR AUGER START	4		COFFEE SUGAR ALGER DURATION	1.0	
A 6 0 0 0 00000 Control RAVIED RAVIED/CITA /s 7 1 3 00000 A 1 0 0 0 0 0 00000 Control RAVIED RAVIED/CITA /s 1 0 /s 1 00000 1 0 /s 1 0 /s 1 00000 1 0 /s 1 00000 1 0 /s 1 00000 1 0 /s 1 0 /s 1 00000 1 0 /s 1 /s 1 /s 1 00000	F AUGER START/TEA	5	_	DECAF AUGER DURATION/TEA	1.7	
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000 000 00000 0000 0000	AUGER START/SGC	7	(SECONDS)	SOUP AUGER DURATION/SGC	_	SOUP SUGAR LIGHT DECAF
Image: constraint in the state of	WATER/WHIPPER START/SGC		_	SOUP WATER/WHIPPER DURATION/SGC	7.3	365 TEA
Image: Note that the state of the	OLATE AUGER START	6	_	CHOCOLATE AUGER DURATION	4.4	
1 3.0 80000 Gets and area tokinon 4 0.8 80000 Color 80000 A 0.0 80000 A	LATE WATER/WHEPER STAR	_	_	CHOCOLATE WATER/WHIPPER DURATION	10 7.2	_
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a 3 0.2 accesses Extra stores Extra stores Extra stores 0.3 accesses bit 0.1 bit 1 1 accesses bit 0 accesses bit	***********		(SECONDS)	*******************	0.0	
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NAM 00 BRESSO COFFE WIRP REIGNARG 1 2 10 1 4.6 (correct) 1.4 (correct) 11 1.4 (correct) 1.4 (correct) 11 1.4 (correct) 1.4 (correct) 11 1.5.0 (correct) 0.0 (correct) 11 1.1 (correct) 0.0 (correct) 11 1.1 (correct) 0.0 (correct) 11 1.1 (correct) 0.0 (correct) 12 1.1 (correct) 0.0 (correct) 13 1.1 (correct) 0.0 (correct) 14 0.0 (correct) 0.0 (correct) 15.0 (correct) 0.0 (correct) 0.0 (correct) 16 1.1 (correct) 0.0 (correct) 17 1.1 (correct) 0.0 (correct) 18 1.1 (correct) 0.0 (correct) 19 1.1 (correct) 0.0 (correct) 10 1.1 (correct) 0.0 (correct) 11 1.1 (correct) 0.0 (correct) 10 1.1 (correct) 0.0 (correct) 10	DROP DURATION	11	(SECONDS)	CUP SENSOR CONTROL		
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EAXCK WITE ELX + SUGAR MIT + SUGAR BLACK WITE ELX + SUGAR MIT + SUGAR CLOCK ELX + SUGAR MIT + SUGAR CLOCK CLOCK ELX + SUGAR CLOC CLOCK CLOCK CLOCK CLOCK		ACK WHIT	BUK + SUGAR WHT + A3 A4		Mocha replace	es Strong Coffee B1-B4.
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BLACK WHITE BLACK		- 1	BLK + SUGAR B3		WHITE BLK + SUGAR 82 B3	
Contraction Contraction Contre			BLK + SUGAR WH1 C3	$\stackrel{\smile}{=}$	WHITE BLK :+ SUGAR C2 C3	WAVE TIMES FOR 2111 G FILL RACK NO F
Construction Construction C5 C0 C5 C0 C6 C0 C7 C0 C6 C0 C6 C0 C6 C0 C6 C0 C7 C0 C6 C0 C0 C0 <		11	Ш			
cs cs cs cs cs cs cs cs cs cs cs cs		•				DRAWN PUM
SGC C6	COLATE		C5			THE INFORMATION ON THIS
Refreshment Mochhery houstries [CGE07] B			5	36C	8	LUMUTIONIZED LUE IS PROMEITED. NUMBER
						LCGE 07 B

Automatic Products 211 V4.0 02/99

			ZILLC OPTION	30MACHINE CO			
	. U		KEY (BUTTON) NO. 2	CHAINE	KEY (BUTTON) NO. 3		
DESCRI	DESCRIPTION	LINE	VALUE	DESCRIPTION	LINE VALUE No.	FRV GDGANY	
0 LONG DELAY THAE	Y TIME	N/A	23.0 (seconds)	SHOPT DELAY TIME	N/A 19.0 (SECONDS)		
1 BREWER/COFFL	BREWER/COFFEE WATER START	1	2.5 (SECONDS)	BREWER/COFFEE WATER DURATION	1 6.2 (SECONDS)		
2 COFFEE AUGER START	GER STARI	2	0.0 ISECONDSI	COFFEE AUGER DURATION	2 I 7 (SECONDS)		
3 COFFEE LIGHT	COFFEE LIGHT AUGEP STAPT	3	13.7 (seconds)	COFFEE LIGHT AUGER DURATION	3 0.8 (seconds)	9 7 4 3	
4 COFFEE SUGAP	COFFEE SUGAP. AUGEP. START	4 - 1	14.2 ISECONDSI	COFFEE SUGAR AUGER DURATION	4 1.0 (SECONDS		
5 TEA AUGER START	START	ŝ	2.0 (SECONDS)	TEA AUGER DURATION	5 I 7 (SECONDS)) [] [
6 TEA WATEP START	? ST≜RT	9	0.0 ISECONDS)	TEA WATER DURATION	6 7 3 (SECONDS)		
7 SOUP AUGE	SOUP AUGER START/SGC	1	1.5 (SECONDS)	SOUP AUGER DURATION/SGC	7 1.0/4.0 (second)	CHOC SUDA SUGAP LIGHT TEA	2
8 SOLP WATER/	SOLP WATER/WHIPPER START/SGC	80	0.0 ISECONDS)	SOUP WATER/WHIPPER DURATION/SGC	8 7 3 (SECONDS)	RGC	15 COFFEE (180)
9 CHOCOLATE	CHOCOLATE AUGER START	0	1.5 (seconos)	CHOCOLATE AUSER DURATION	G 4 4 ISECONDS		
IO CHOCOLATE W	CHOCOLATE WATER WHIPPER START	10	0.0 (SECONDS)	CHOCOLATE WATER/WHIPPER DURATION	10 7 2 ISECONDS		
II TEA SUGAR AUGEP STAPT	KJEP STAPT	ч	3.0 (SECOHDS)	tea sugar auger duration 🥌	4 0.8 (SECORDS)	(WHIP) () (1POUGH 21190 CHUTE 36317	
12 STRONG COL	STRONG COFFEE START	~	0.0 ISECONDS)	STRONG COFFEE DURATION	2 2 5 (SECONDS)		
13 IEA LIGHT AUGER START	GEP. STAPI	m	3.2 (SECONDS)	tea light auger duration	3 0.8 (SECONDS)		
14 TEA BREWER STAPT	R STAPI	×.	15.0 (seconds)	TEA BREWER (DUMP) DURATION	X Z B (SECONDS)		
IS EXTPA COFFEE	EXTRA COFFEE LIGHT CURATION	3	0.2 (secoros)	EXTRA SUGAR DURATION	4 0 3 ISECONDSI	SELECTION: COF /ST COF /CHOC /SOUD /EB TEA	TEA .
16 EXTRA TEA LIGHT DUPATION	THE DUPATION	m	0.2 ISECONDSI 1	MACHINE CONFIGURATION	N/A 0.1		
17 CUP DROP DURATION	DURATION	-	1 4 ISECONDS)	CUP SENSOR CONTROL	N/A 0 1		
18 CUP DISCOUNT		N/A	00	ESPRESSO COFFEE WATER PERCENTAGE	1 70		
15 CAFE NOCHA CO	CAFE MOCHA COFFEE WATER DURATION	1		CAFE MOCHA COFFEE AUGER DUPATION	Z 1 3 ISECONDOS		
20 CAFE MOCHA CH	CAFE MOCHA CHOC. AUGER START TIME	6		CAFE MOCHA CHOC. AUGER DURATION	9 1 4 (SECONDS)		
2.1 CAFE NOCHA CHOC	CAFE MOCHA CHOC WATEP/WHIPPER STAFT	0	15.0 (secores)	ER CUPATION	10 Z B ISECONDSI		
		N/A	0.0 ISECONDEI 1	MULTIVEND 9.0=CFF/1.0=ON	N/A 0.0 ISECONDSI		
23 COLO WATER SHOT START PULSE	I STAPI PULSE	. λ		COLD WATER DURATION	Y 2 0 (SECONDS)		
					ee		
				NOTE:			
				1 Times	imes for 8 1/4 07		•
Automatic Predicts		e HAGERI	1. HISERT CORS 2. ENTER SELECTION CODE		Cofe Mocha use		
COFFEE FRESH BREWED	BREWED BLACK	<pre>vm#TE</pre>	BLK + SUGAR WHI			s Strong Coffee B1 - B4.	
	$\ $		2		-	- 1	
STRONG FRESH BREWED		CK WHITE B2	EBLK + SUGAR WHT + SUGAR B3 B4	(c	BLACY WHITE BLY SUGAR BI B2 B3	WHI + SUDAR	ľ
FRESH LEAF TEA	RLACK BLACK	CK WHITE	BLK SUGAP WH	t sugar		Induce TIMES FOR 2111 G WIT	2111 G WITH FR TFA
EXTRA - MINE OD COTION THEN		10101	· EXTRA SIGAR · · EXTRA MATE				
						NODE:	DRAWN PURI 02/26/98
CHOCOLATE			3			DO NOT 2011 SCAR DRAWING TRECOMMENT	APP.
sour			56	sec	60	_	HURABER
						Can income Communication income and the state of the stat	Iter II BAA

Automatic Products 211 V4.0 02/99

Montain Constrained Constrained <thconstrained< th=""> <thconstrained< th=""> <th< th=""><th>-</th><th>11.6</th><th>DOMESTIC-MAC</th><th>HINE CONFICTERATIO</th><th></th><th>- 00</th><th></th></th<></thconstrained<></thconstrained<>	-	11.6	DOMESTIC-MAC	HINE CONFICTERATIO		- 00	
monomical optim contrained contrained <thcontrained< th=""> <thcontrained< th=""> <th< th=""><th></th><th>ΚĒΥ</th><th>(BUTTON) NO. 2</th><th>CHANNEL</th><th></th><th></th><th>· ·</th></th<></thcontrained<></thcontrained<>		ΚĒΥ	(BUTTON) NO. 2	CHANNEL			· ·
Matrix Matrix<		LINE.	VALUE		N. Se	VALUE	· · · · · · · · · · · · · · · · · · ·
mer mer <th>LONG DELAY TIME</th> <td>N/A</td> <td></td> <td>SHORT DELAY TIME</td> <td>N/A</td> <td>12.0 (SECONDS)</td> <td></td>	LONG DELAY TIME	N/A		SHORT DELAY TIME	N/A	12.0 (SECONDS)	
(1) (1) <th>BREWER, WATER START</th> <td>~</td> <td></td> <td>BREWER DURATION</td> <td>-</td> <td>6.2 (SECONDS)</td> <td>3 VALVE HAVNEGDD ASH</td>	BREWER, WATER START	~		BREWER DURATION	-	6.2 (SECONDS)	3 VALVE HAVNEGDD ASH
Image: Set 1 (Set 1) Image: Se	COFFEE START	2	_	COFFEE DURATION	2		
Activity	LIGHT START (COFFEE)	3	(SECONDS)	LIGHT DURATION (COFFEE) *	e		
S0:11(m) S0:11(m) S1:10 S1:10 <th< td=""><th>SUGAR START (COFFEE)</th><td>4</td><td>(SECONDS)</td><td>SUGAR DURATION (COFFEE)</td><td>4</td><td>1.0 (SECONDS)</td><td>€ (</td></th<>	SUGAR START (COFFEE)	4	(SECONDS)	SUGAR DURATION (COFFEE)	4	1.0 (SECONDS)	€ (
Matrix Image: Section Image: Section<	SOCI START	5	- 1	SECT DURATION	ŝ	4.0 (SECONDS)	(mai) (mai) (mai) (mai) ()
Rest state 1	SGC1 WATER START	ç		SECT WATER DURATION	و	7.3 (seconds)	
State State <th< td=""><th>SGC2 START/SOUP</th><td>7</td><td>(SECONDS)</td><td>SEC2/SOUP DURATION</td><td>7</td><td></td><td></td></th<>	SGC2 START/SOUP	7	(SECONDS)	SEC2/SOUP DURATION	7		
Constrained 0 1 4 <th< td=""><th>SGC2 WATER. WHIPPER START</th><td>8</td><td>(SECONDS)</td><td>SOCZ WATER, WHIPPER DURATION</td><td>8</td><td>e.</td><td>Sect Sucar Light</td></th<>	SGC2 WATER. WHIPPER START	8	(SECONDS)	SOCZ WATER, WHIPPER DURATION	8	e.	Sect Sucar Light
Construction Display and the series rate Display and t	CHOCOLATE START	6	-	CHOCOLATE DURATION	6		
	CHOCOLATE WATER. WHIPPER START	10		CHOCOLATE WATER, WHEPER DURATION	₽		
STRETE ORI 2 0.0 memory 100 <	XXXXXXXXXXXXXXXXXXXXXXXXX	4	_	XXXXXXXXXXXXXXXXXXXXXXXXXX	4		
шоло солона 0 (0) селена шолона 0 (0) селена шолона	STRONG COFFEE START	2		STRONG COFFEE DURATION	2		ditum
Image: Control in the control intervent of the control	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	e	(SECONDS)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	e	0.0 (SECONDS)	TO 8 6 TROUGH 36325 CHUTE 36298
(1011) Line Line (100100) 3 0.2 (2.00010) (1.1 (2.00010) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.00100) (2.001000) (2.001000) (2.001000) (2.001000) (2.001000) (2.001000) (2.001000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2.0010000) (2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	•	(SECONDS)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	-	0.0 (SECONDS)	
Click Tic Lieft Touling 2 0.1 Genome Munities of the content of the cont	EXTRA LIGHT DURATION (COFFEE)	n	-	EXTRA SUGAR DURATION	4		
OF OPENDIAL 11 1.4 recension 0.4 recension <th>EXTRA TEA LIGHT DURATION</th> <td>m.</td> <td>(SECONDS)</td> <td></td> <td>N/A</td> <td>0.1</td> <td>-</td>	EXTRA TEA LIGHT DURATION	m.	(SECONDS)		N/A	0.1	-
OF DESCRIPT NA 00 resconding 1 70 OFF LOOM OFFER WITE NAME NAME NAME NAME NAME NAME NAME NAM	CUP DROP DURATION	11	(SECONDS)	to	N/A	0.1	SELECTION: COF / ST COF /CHOC /SGC /SGC
Et WIEP dørindi 1 4.1 1.1 60000 012. 1.2 1.2. <th>OUP DISCOUNT</th> <td>N/A</td> <td>(SECONDS)</td> <td>ESPRESSO COFFEE WATER PERCENTAGE</td> <td>-</td> <td>70</td> <td></td>	OUP DISCOUNT	N/A	(SECONDS)	ESPRESSO COFFEE WATER PERCENTAGE	-	70	
Aller Start a is is is is is is Aller Aller Start is	CAFE MOCHA COFFEE WATER DURATION	1		CAFE MOCHA COFFEE AUGER DURATION	2		
NIRPARENT Start I I: 0 I: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	CAFE MOCHA CHOC AUGER START TIME	6		CAFE MOCHA CHOC AUGER DURATION	. 6	1.4	
Outs series is oversify and include to a second and a second and include to a second and include to a second and a second a	CAFE MOCHA CHOC WATER/MARPER START	0			5		
OLD NEED BOT Start FLEE V 2.0 Recored Cold Netres Bot Data Netres Participantia V V V V V V V V Montati Policio 1. Recorded 2.0 Recorded	CARVE MODE 0.0-OFF/1.0-ON EDPORT ONLY)	N/A	(SECONDS)	0	N/A		
NOTE: NOTE: 1. Times for 8 1/4 oz drink only 2. For Cafe Mocha, use machine Notar Euxiston mix store Note meren Note mer	COLD WATER SHOT START PULSE	7		COLD WATER SHOT DURATION	۲	2.0 (seconds)	
Interse 0			-	NOTE.	ibl ne		
Inters Inters							
Image: Control of the contro of the control of the control of the control of the control of th				. I imes	<u> </u>	3 1/4 0Z drink	only
REVED RATIX WIT BX - SUBAR WIT - SUBAR	Administic Products	1. Incent 2. Entre	1 COMS		e V	ocha, use machi	ine
B1-B4 Reverbe Revision With Extrements of Entrances reverbe Revision With TWO SGC reverbed Revision With TWO SGC reverbed Revision With TWO SGC reverbed Reverbed Reverbe			BLK + SUGAR		epla	n v.v. vare ces Strong Coff	ee ee
Here BLAC WITE BLAC WITE BLACE SUBJACE WIT =			2			,	
Note TIMES FOR 211LG WITH TWO SGC c1 c1 c1 c1 c2 c2 c3 c4 c4 c4 c3 c4 c4 c4 c4 c4 c4 c4 c5 c4 c4 c4 c5 c4 c4 c4 c6 c4 c4 c4 c6 c4 c4 c4 c6 c5 c4 c4 c6 c5 c4 c4 c6 c6 c6 c6 c6 c6 c6 c6 c7 c6 c6 c6			BLK + SUBAR B3	UBAR .			REVISION
CI CI C C	attra - Inné Selection then frees	- 6119					
CI DO NOT DO NOT DO NOT DO NOT DO NOT 200 200 201 200 211 APP 201 200 201 201 200 201 201 201 201 200 201 201 201 211 APP 201 201 201 211 APP 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201 201		$\ $					F
C3 C3 C4 APP C4 APP C4 C	86.1		C1				MODELDRAWN PJM
Col Col NAME State 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OT CHOCOLATE		S				C 11 THE RECOMMINION ON THIS DRAWING IS ODVERBUTIAL
		ļ	8			5	
							the face members of 18074

Automatic Products 211 V4.0 02/99

CONFIG CODE 0.3	KEY (BUTTON) NO. 3	LINE VALUE No.	N/A 12.0 (\$50003) MIH 1 AUS	1 6.2 (\$CON00))~)~)∽	4 1.0 ISECRADU (20) (21) (20) (100) (20) (20) (20) (20) (20) (20) (20) ()[][6 7.3 (second)	1.0 ISECARDSI CHOC DECAF SUGAR LIGHT TEA	8 7.3 (Setember 2) 2			4 0.8 (SECONDA) 0.8 (SECONDA) 0.8 (SECONDA)	7 2.5 (\$60003) 10	3 0.8 (seconds)	2 0.0 (secones)	4 0.3 INCOMENT SFI FCTION: COF /CHOC/TFA /SNK	N/A 0.3	M/A 0.1	1 20	2 1.2 (seconds)	9 1.4 (second)	10 2.8 (seconds)					m	icha is not possible with this selection.			NAME THAFE FOR 2111 O MITH DECAE AND	LIMES FUR ZITLY WITH DEVAL		DRAWN		DRAWN DRAWN APP.
06MACHINE CO	CHANNEL	DESCRIPTION	SHORT DELAY TIME	BREWER/COFFEE WATER DURATION	COFFEE AUGER DURATION	COFFEE LIGHT AUGER DURATION	COFFEE SUGAR AUGER DURATION	TEA AUGER DURATION	TEA WATER DURATION	SOUP/SGC AUGER DURATION	SOUP/SGC WATER/WHIPPER DURATION	CHOCOLATE AUGER DURATION	CHOCOLATE WATER/WHIPPER DURATION	TEA SUGAR AUGER DURATION	DECAF AUGER DURATION	TEA LIGHT AUGER DURATION	**************	EXTRA SUGAR DURATION	MACHINE CONFIGURATION	CUP SENSOR CONTROL	ESPRESSO COFFEE WATER PERCENTAGE	CAFE MOCHA COFFEE AUGER DURATION	CAFE MOCHA CHOC. AUGER DURATION	CAFE MOCIA CHOC. WATER/WHIPPER DURATION	COLD WATER DIBATION	en SS.	-) NOTE	INULE:	•	2. Cafe Mocha		GAR	1	<u>]</u>	ſ			
211LG OPTION	KEY (BUTTON) NO. 2	AALUE	23.0 (SECONDS)	2.5 (SECONDS) [0.0 (SECONDS) (14.2 (SECONDS) (-	0.0 (SECONDS) 1	1.5 (SECONDS) 5	_		0:0 (SECONDS) (3.0 (SECONDS) 1	2.5 (seconos) [3.2 (SECONDS) 1	0.0 (SECONDS) X	0.2 (SECONDS) E	0.2 (SECONDS) A	1.4 (SECONDS) C	-	-	-	15.0 (seconds) C	-	-			1. INSERT COME 2. BATER SELECTION CODE	ITE BLK + SUGAR WHT + SUGAR	ę	ITE BLK + SUGAR WHT + SUGAR 2 B3 B4	ITE BLK + SUDAR WHT + SUDAR	3		• EXTRA SUDAR & EXTRA WATE	្រ	្រ ខ ្
21	¥	LINE.	N/A	-	2	3	4	ŝ	ە	~	8	6	RT 10	4	7	e	× 2	e	Э	=	A/N	_	_	2	< × ×				1. MG	CK	A1 A2	BLACK WHITE BI BZ	BLACK WHITE	- 1		•	5	
E TIMING CHART	CHANNE .	DESCRIPTION	0 LONG DELAY TIME	I BREWER/COFFEE WATER START	2 COFFEE AUGER START	3 COFFEE LIGHT AUGER START	4 COFFEE SUGAR AUGER START	5 TEA AUGER START	6 TEA WATER START	7 SOUP/SGC AUGER START	8 SOUP/SGC WATER/WHIPPER START	9 CHOCOLATE AUGER START	10 CHOCOLATE WATER/WHIPPER START	11 TEA SUGAR AUGER START	12 DECAF AUGER START	13 TEA LIGHT AUGER START	14 XXXXXXXXXXXXXXXXXXXXXXXXXXXX	15 EXTRA COFFEE LIGHT DURATION	16 EXTRA TEA LIGHT DURATION	17 CUP DROP DURATION	18 CUP DISCOUNT		20 CAFE MOCHA CHOC. AUGER START TIME		28 COURTE MODE 0.0-047/1.0-000001 00017 N.V.A.				Automotic Products				TEA			extra - Mare adjection then meas	ETTRA - WHE ELECTION THEN MESS HOT CHOCOLATE	ETTRA - WARE ELECTION THEN PRESS HOT CHOCOLATE

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Automatic Products 211 V4.0 02/99

3.05

			30 FEA F	invition Asi	10 HOT WATER	7 4 3 5					285	_		(WHP) () (MHP) (MH						SELECTION: COF/ST COF/CHOC/SNK/ST SNK/SOUP	-								Cafe Mortha is not possible with this selection			- SUGAP	_	DATE DATE DATE	APP	re Polarico Ori Tres Daves Is Corferentia. Urauthorized use is Provented.	Refreshment Machinery Industries [LGSEL08] B A	
3 CODE 0.4	KEY (BUTTON) NO. 3	VALUE	12.0 (SECONDS)	6.2 (seconos)	1.7 (secorea)	0.8 (SECONDS)	1.0 (seconos)	1.7 (SECONDS)	7 3 (secorosi	1.0/4.0 (seconds)	7.3 (seconosi	4.4 (SECONDS)	7.2 (SECOND31	O.B (SECONDS)	2.5 (secords)	0.8 (seconosi	1.5 (SECONDS)	0.3 (SECONDS)	0.4	0.1	70	1.2 (SECONDS)	1.4 (seconos)	2.8 (seconosi	0.0 ISECONDSI	2.0 (secorosi		Times for 8 1/4 oz cups onlv.	a is not nossi			BLACK WHATE BLK . SUGAR WHI	C2 C3			1	5	
08MACHINE CONFIG		DESCRIPTION LINE No .	SHORT DELAY TIME N/A	BREMER/COFFEE WATER EUPATION 1	COFFEE AUGER DURATION 2	COFFEE LIGHT AUGER DUPATION 3	COFFEE SUGAR AUGER DURATION 4	DECAF AUGER DURATION/TEA 5	DECAF WATER DURATION//TEA 6	SOUP AUGER DURATION/SGC 7	SOUP WATER/WHIPPER DURATECH/SGC 8	CHOCOLATE AUGER DUPATION 9	CHOCOLATE WATER/WHIPPER DURATION 10	DECAF SUGAR AUGER DURATION 4	STRONG COFFEE DURATION 2	DECAF LIGHT AUGER DURATION 3	STRONG DECAF AUGER DURATION 5	EXTRA SUGAR DURATION 0 4	MACHINE CONFIGURATION N/A	CUP SENSOR CONTROL	ESPRESSO COFFEE WATER PERCENTAGE 1	CAFE MOCHA COFFEE AUGER DURATION 2	CAFE MOCHA CHOC. AUGER DURATION 9	CAFE MOCHA CHIC. WATER/WHEPPER CURATION 10	MULTIVEND 0.0+0FF/1 0+0H	R DURATION	NOTE:	1. Times for	2 Cafe Moch			R.					800	
z	KEY (BUTTON) NO. 2	VALUE	23.0 (SECONDS) SHORT	2.5 (Seconds) BREWER/(0.0 (SECONDS) COFFEE	14 2 (Seconds) COFFEE L	13.7 ISECOIDS) COFFEE S	2.0 ISECONDS) DECAF	0.0 (SECONDS) DECAF	1.5 (Secolos) SOUP A	_	1.5 ISECONDS) CHOCOL		3.0 (SECONDS) DECAF SU	D. 0 (SECONDS) STRONG	3.2 (Seconds) DECAF (2.0 (SECONDS) STRONG	O.2 (SECOLOS) EXTRA :	O.2 ISCORDSI MACHINE	1.4 (SECOLOS) CUP SET				-	_	Z.O (SECONDS) COLD WATER DURATION		Ĕ	<u>ا ا ۳</u>	E BLK SUGAP WHI SUGAP	E BLK + SUGAR WHT + SUGAR	E BEK · SUGAP WHT · SUGAP	C3	E BLK SUGAP WHT SUGAR	8		5	
[~	Ŕ	LINE	N/A	-	2	3	4	5	6	2	a v	σ,	RT 10	4	2	3	Т 5	3	3	11	N/A	- 18	6 94		N/A	Y			300	BLACK WHITE AI AZ	BLACK WHITE B1 B2	BLACK WHITE	- LI	BLACK WHITE A5 A5				
TIMING CHART,		BESCRIPTION	D LONG DELAY TIME	I BREWER/COFFEE WATER START	2 COFFEE AUGER START	3 COFFEE LIGHT AUGER START	4 COFFEE SUGAR AUGER START	5 DECAF AUGER START/TEA	6 DECAF WATER START/TEA	7 SOUP AUGER START/SGC	8 SOUP WATER/WHIPPER START/SGC	9 CHOCOLATE AUGER START	IC CHOCOLATE WATER/WHIPPER START	11 DECAF SUGAR AUGER START	12 STPONG COFFEE START	13 DECAF LIGHT AUGER START	14 STROUG DECAF AUGER START	15 EXTRA COFFEE LIGHT DURATION	IS EXTRA DECAF LIGHT DUPATION	17 CUP DROP DURATION	18 CUP DISCOUNT	19 CAFE NEICHA COFFEE WATER DURATION	26 LAFE MOCHA CHOC. AUGER START TIME	2.1 CAFE MOCHA CHOC: WATER/WHIPPER START	22 CARAF MODE 0 0=0FF/1.0-0HEDPORT (PAY)	23 COLO WATER SHOT START PULSE		1. INCOME COME	HEINIGHTER TOAKIS 2. BITER SELECTION	coffee Bu	STRONG COFFEE			STRONG DECAFFEINATED	HOT CHOCOLATE		soup	

Automatic Products 211 V4.0 02/99

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					3 VAVE) (RPL) (RPL) (RPL) (RPL) (RPL) (RPL) (R		_	CHSC SOUP SUZAR LIGHT COFFEE DECAF			(WHP) () (TROUGH 21191) (CHUTE 34219-1))-			SELECTION: COF/ST COF/CHOC/SNK/SOUP								-	cups only.		rong Coffee B1 - B4.	WHI - SUSAP	LEI REVISION BY DATE BG CHCM	* TIMES FOR 211FD FULL RACK NO FI		DO NOT MODEL 2 1 1 DHAMM FUM UC/C0/90 SCALE	THE REVENTION OF 1413 DRAWED IS COVERTIAN UNAUTHORIZED USE IS PRO-ODITED	Refreshment Machinery houstries FIDSFI 07 B A	1 1011
G CODE 0.1	KEY (BUTTON) NO. 3	VALUE	12.0 (SECONDS)	7.3 (SECONDSI	1.7 (SECOLDS)	0.8 (SECONDS) -	1.0 (seconds)	1.7 (SECOLDS)	7.3 (SECORDS)	1.0/4.0 (SECORDS)	7.3 (SECONDS)	4 . 4 (SECOLDS)	7.2 (SECONDS)	D.B (SECONDS)	2.5 (SECONDS)	O.B (seconds)	0.0 (secones)	0.3 (SECONDS)	0.1	0.1	70	1.3 (SECONDS)	1.4 (\$50005)	2.8 (SECORDS)	0.0 (secords)	Z.0 (SECONDS)			02	For Cafe Mocha, use m	Ices	BLACK WHITE BLK . SUGAR W	83	BLACK WHITE BLA - SUGAP W				C6	
ONFI	Ŕ	LINE No.	N/A	-	2	n	4	5	9	7	80	9	10	4	.2	3	2	4	A/N.	N/A	-	2	თ	10	N/A	۸		0	1 or	afel	Moch	Ē		æ					
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CELAY Trate N/A 10.0 000000 International Into 13.0 0000000 Into 13.0 00000000 Into 13.0 000000000 Into 13.0 000000000000000000000000000000000000	Construction Notice Notice<	KEY (BUTTCM) NO. 2 CHANIEL LINE DESCRIPTION LINE	KEY (BUTTON) NO. 2 CHANEL CURLING COURTINE COURTINE COURTINE NO. 2 CHANEL KEY (BUTTON) N	N/A 19.0 GECONGS SHOFT DELAY TIME IV/A 19.0 GECONGS SHOFT DELAY TIME IV/A 19.0 GECONGS SHOPT DELAY TIME State State <t< td=""></t<>	
Ref. Num Num <td>Non-state Non-state Non-s</td> <td>KEY (BUTTCM) NO. 2 CHAVIEL</td> <td>KEY (BUTTON) NO. 2 CHANEL KEY (BUTTON) NO. 2 CHANEL</td> <td>No. No. No.</td>	Non-state Non-s	KEY (BUTTCM) NO. 2 CHAVIEL	KEY (BUTTON) NO. 2 CHANEL KEY (BUTTON) NO. 2 CHANEL	No.	
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Automatic Products 211 V4.0 02/99

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	Å	KEY (BUTTON) NO. 2	CHANNEL	ΚÈ	KEY (BUTTON) NO. 3		
DESCRIPTION	Ш. No N	VALUE	DESCRIPTION	N. N. N. N. N.	AALUE		
0 LONG DELAY TIME	N/A	12.0 (SECONDS)	SHORT DELAY TIME	N/A	12.0 (seconds)		
COFFEE WATER START	-	1.2 (seconds)	COFFEE WATER DURATION	-	7.3 (SECONOS)		
COFFEE START	2	3.0 (SECONDS)	COFFEE DURATION	~	1.7 (SECONDS)		ſ
LIGHT START (COFFEE)	m	5.6 (seconds)	LIGHT DURATION (COFFEE)	6			-
SUGAR START (COFFEE)	4	5.4 (seconds)	SUGAR DURATION (COFFEE)	4	1.0 (seconos)		_
SGC1 START	ŝ	1.5 (SECONDS)	SECT DURATION	2	4.0 (seconds)		
SGC1 WATER START	v	0.0 (SECONDS)	SGC1 WATER DURATION	ø	7.3 (seconos)		
SEC2/SOUP START	2	1.5 (seconds)	SGC2/SOUP DURATION	2	4.0/1.0 (SECONDS)		A VALVE MANUFOLD ASM
SGC2 WATER. WHIPPER START	80	0.0 (SECONDS)	SOCZ WATER, WHIPPER DURATION	8	7.3 (seconds)		(60296)
CHOCOLATE START	6	1.5 (seconos)	CHOCOLATE DURATION	6	4 (seconds)	CHOC SIGC? SGC 1 SUICAR	
10 CHOCOLATE WATER. WHIPPER START	2		CHOCOLATE WATER. WHEPER DURATION	10		SOUP	
II SUGAR START (TEA)	4		SUGAR DURATION (TEA)	4			
12 STRONG START	-	3.0 (SECONDS)	STRONG DURATION	-	2.5 (seconds)		
13 LIGHT START (TEA)	m	3.2 (\$60005)	LIGHT DURATION (TEA)	m	0.8 (seconds)	(Mulp) (Mulp) (Mulp) (040TE - 34219-2)	
14 XXXXXXXXXXXXXXXXXXXXXXXX	F	0.0 (SECONDS)		С	0.0 (seconds)		
15 EXTRA LIGHT DURATION (COFFEE)	e	0.2 (SECONDS)	EXTRA SUGAR DURATION	4			
	m	0.2 (SECONDS)	L.,	N/A	0.1		
-	=	1 4 (seconds)	CUP SENSOR CONTROL	N/A	- 0		
-	A/A		FEDERSON CORETE WATER PEDICENTAGE		70	SELECTION: ONE VET ONE VOUND	
	_	1.	CAFF MONA MEET ANDER ANDER MARTIN			SELEVIIUN OUT/SI OUT/UNU/SUV/SUV	201/201
-	•	7 5 (SErvans)	CAFF WORLA CHICK ALCON	1.1			
-	, _	—	CAFF WYCHL CWC WATER AND BOD DI BATTON		2 R (SECOMPTE)		
_	2	-					
22 CARVE MODE 0.0-OFF/1.0-ON EDPORT ON YI	∢ X	0.0 (SECONDS)	MULTIVEND 0.0=OFF/1.0=ON	A/A			
23 COLD WATER SHOT START PLUSE	>	2.0 (SECONDS)	COLD WATER SHOT DURATION	7	2.0 (seconds)		
			rs s. c				
			NOTE: P				
Automotic Products	- 1 MOB	1. Batert coms 2. Bater yalischok code		6	8 1/4 oz. cups only.		
		BLK + SLIGAR WHT + SLIGAR		e Mo	Mocha, use machine		
	2	çv	_	atior	0.0. Cafe		
STRONG COTTLE BLACK	X WHITE	BLK + SUGAR WHT + SUGAR B3 B4	www. Mocha replaces	eplac	es strong Cottee		
5						LET REVISION	BY DATE BG CHGP
ECTIA - INVE SELECTION THEN PIECES	#	extra sugar 🔆 extra mate				TIMES FOR 211FD WITH TWO SGC	I TWO SGC
900 1		S					DATE DATE
						DO NOT MODEL 211	
HOT CHOCOLATE		8				DCALE NE REGARDING ON DEALERS OF CONTRACTOR	
sour		CI	300 2		5		
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Automatic Products 211 V4.0 02/99

3.09

TIMING CHART,	11FD	M05 NOLTO	211FD OPTION 50MACHINE CONFIGURATION 00.2	10N 00.2	UNIQUE PART NUMBERS
	¥	KEY (BUTTON) NO. 2	CHANNEL	KEY (BUTTON) NO. 3	SCRIPTION 0TY
DESCRIPTION	LINE No.	AALUE	DESCRIPTION	LINE VALUE	1 36616 NONE TANK ASM EXPORT FD 1 2 36620 NONE 4 CVV MANIFOL D 3
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Automatic Products 211 V4.0 02/99

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Automatic Products 211 V4.0.02/99

SANITZING AND CLEANING PROCEDURES

FOR LG MACHINES - DO EVERYTHING FOR FD MACHINES - SKIP **BOLD ITALICS**



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

CAUTION - VERY HOT WATER : USE EXTREME CARE WHEN REMOVING WATER FROM THE TANK USING THE RINSE HOSE OR DRAIN. WATER IS HOT ENOUGH TO CAUSE PERSONAL INJURY.

EACH VISIT

- Fill cup cabinet with cups to required level. Wipe interior and exterior of cup cabinet.
- Replenish all canisters. Clean any spills. Wipe lids of canisters with a damp towel. Dry all damp surfaces.
- 3. COFFEE BREWER Cycle the brewer to the dump position by depressing its right rear roller switch (see Figure 3.1) until the brewer continuously runs on its own. When the brew carriage reaches the forward dump position, then toggle OFF the 16 amp circuit breaker. Remove splash guard from the front of the brewer. Using spray hose, rinse any loose grounds from brewer and splash guard. Replace splash guard and close swing out bracket then toggle ON circuit breaker.
- 3A. TEA BREWER If machine is equipped with a fresh brewed tea brewer perform following: Remove the tea canister, with the spray hose, rinse off any loose grounds from the tea brewer and waste chute. Make a tea selection and rinse top of chamber, carriage and filter screen area until after the brew carriage has cycled forward and back twice. Replace tea canister.
- 4. CANISTER RACK Remove humidity bar (CAUTION-BAR IS HOT) and commodity chutes from the trough. Check all canister spouts and commodity chutes for blockages. Rinse commodity chutes and trough with spray hose to remove any residue. For best results, the channel in the trough can be cleaned thoroughly by spraying a diluted mix of dish detergent and water from a spray bottle and scrubbing with a damp cloth or a soft brush, followed with a hot water rinse from the spray hose. <u>Do not scour the trough with any abrasive material!</u> This can result in a poor wash of the trough and poorly mixed ingredients in a drink, or residue in the trough. Carefully dry commodity chutes and reinstall humidity bar and commodity chutes.
- CUPWELL Remove cupwell, grate and vend door, clean with hot water and detergent. Rinse with clear water and dry with clean cloth or paper towel. Wipe inside of door, clean vend door guides. Replace cupwell, grate and vend door in machine.
- 6. Using warm water and detergent, clean other interior surfaces, wipe with a damp cloth and wipe dry.

- 7. Remove disposable bag containing spent coffee grounds and rinse bucket with hot water and replace liner. Empty and scrub waste bucket. Rinse with antibacterial solution. Do not rinse bucket after anti-bacterial solution is used- this will defeat its purpose. Clean floor of machine with hot water and wipe dry. <u>Replace buckets in</u> <u>machine making sure both floats are hanging free and all</u> <u>hoses are in the buckets.</u>
- Set one test vend or coin test to check for proper operation. Lock vendor door, clean exterior of door and cabinet.

QUARTERLY



CAUTION: THE BELOW PROCEDURE SHOULD BE PERFORMED BY A QUALIFIED PERSON TRAINED IN PREVENTIVE MAINTENANCE!

- 1. Cycle brewer to the `dump' position, spray with rinse hose to remove any excessive grounds. Disconnect the brewer cable from the carriage by gently pushing the carriage to the rear and lifting the cable out of its slot. Lift the lower brewer assembly latch and remove the bottom half of the brewer. Place in a bucket of hot water to allow it to soak.
- Remove steam duct, exhaust hose, and metal screen between exhaust motor and mounting plate. Rinse clean with hot water. Dry with a clean cloth and return to position.
- 3. Disassemble chocolate whipper (and any additional whippers) housing and mixing bowl by spreading the wire clips and pulling the mixing chamber straight out. Clean parts with hot water. Clean and inspect the whipper base and impeller for wear. Reassemble making sure the large `O' ring is positioned correctly inside the whipper housing.
- Disconnect all hoses from mixing bowls, channel and delivery spout and clean with hot water. Reconnect hoses and ensure the hoses are not sagging.
- Remove lower half of brewer from bucket and rinse well with hot water and inspect brew filter, screen and gasket for wear, rips or obstruction of the filter or screen. Replace if necessary. Return brew base assembly to brewer and reconnect cable.
- 6. Remove tea brewer carriage, rinse brewer base, and replace tea brewer filter.
- 7. Clean coffee delivery chute with a dry cloth.
- 8. Clean coin mechanism acceptor with a damp cloth and wipe dry./
- Perform the EACH VISIT procedure after completing QUARTERLY sanitizing and cleaning procedure.
- IMPORTANT: IT IS HIGHLY RECOMMENDED THAT THE WATER VALVES ON THE HOT WATER TANK BE INSPECTED AND/OR REBUILT EVERY TWO YEARS (SEE PREVENTIVE MAINTENANCE SCHEDULE ON PAGE 4.02).

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			for APi Hot Be	for APi Hot Beverage Merchandiser				
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Brewer Carriage, Rods, Springs		Clean	Clean	ClearMnspect		Lubricate	Lubricate	
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PRODUCT DELIVERY SYSTEM								
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Whippers		Clean	Clean	ClearVinspect				Inspect
Extraust System: Hose, Duct Screen		Clean	Clean	ClearVinspect				
Liquids delivery hoses		Clean	Clean	ClearVinspect	Replace			
Coffee delivery drutes		Clean	Clean	ClearVinspect				
Tea Brewer Filter		Clean	Clean	Replace				
MISCELLANEOUS		cts.						•••
Water Inlet Filter Cartridge		COI	fre at			Replace	Replace	
Water Valves On Water Tank		n	e			Inspect	Rebuild	
Cupwell, Overflow & Grounds Buckets		Clean	of					
Coin Mech		Clean	Clean	Inspect				
Water Tank Interior							Inspect	Clean
THIS SCHEDULE SHOULD BE FOLLOWED IN ADDITION TO THE "EACH VISIT" CLEANING RECOMMENDED IN THE SERVICE SECTION OF THIS MANUAL	OLLOWED IN	ADDITION T	O THE "EACH VI	SIT" CLEANING REC	OMMENDED IN TH	E SERVICE SECTI	ION OF THIS MAN	JAL.

=Inspect for wear, product build up or broken part. After inspection- repair, adjust, dean, rebuild or replace. =Remove from machine, take apart, dean and replace worn or corroded parts. =Clean and sanitize per NAMA procedures =Recommended interval for replacement REPLACE REBUILD INSPECT CLEAN

=Should be cleaned, inspected, and repaired before lubrication. Recommended lubricant is a food grade, light weight oil.

LUBRICATE

Nutomatic Products 211 V4.0 02/99

4.02

FUNCTION OF THE BREWER IN AN AP 211

The heart of the AP 211 Hot Drink Merchandiser is the open cylinder brewer. It has been "time proven" and "experience improved". It is simple, lightweight, easy to clean and easy to service.

HOW THE BREWER WORKS

The word "front" used in this description refers to the parts of the brewer nearest the observer, standing before the open cabinet.

All AP 211 fresh brew machines have the brewer stopping at the same point. The brewer is stopped with the brew carriage aligned directly over the brew filter and under the coffee delivery chute. When a brewed coffee drink is selected, the ground coffee from the LG canister is delivered directly to the brew chamber via the stainless steel coffee delivery chute.

 IF THE MACHINE IS EQUIPPED WITH A CUP SENSOR, THE VEND CYCLE WILL NOT BEGIN UNLESS A CUP IS PRESENT IN THE CUPWELL.

> his document is available free or charge to our customers at www.automaticproducts.com

The brewer starts at the time determined by channel 1 (typically 25 seconds) after the coffee hopper has augured coffee into the brew chamber. When the brewer starts, the cable will begin to retract the brew carriage towards the rear of the base assembly. Once the right rear (brewer cycle) switch rides up on the high side of the rear cam, the brewer will continue to run until it falls back into the valley at the end of the cycle.



FIGURE 3.2

FIGURE 3.1

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The brew carriage will continue back until it is slightly behind the clear brew cylinder when the brew cylinder starts its downward motion. At the proper time the cable is slackened slightly to allow the brew carriage to move forward and selfalign with the cylinder. As the cylinder clamps down on the brew chamber seal, the roller of the front right switch should be entering the valley of the front cam and the switch will send voltage to the brew water valve and the Brew Delay Relay. The Brew Delay Relay (BDR) interrupts the voltage to the brewer motor to allow the brewer valve to deliver all the water required to the brewer. The brew water valve and the BDR are energized for the duration of channel 1. The cylinder is held against the brew chamber seal by the springs on the cylinder support rods. The water will flow into the cylinder down through the grate in the bottom of the cylinder into the coffee filled brew chamber. The grate in the bottom of the cylinder prevents the coffee grounds from floating up into the cylinder.

FIGURE 3.3

As the cycle continues, the piston is moved down into the cylinder by the large cam on the main shaft. Air trapped between the piston and the water in the cylinder is quickly heated by the hot water and begins to expand. The downward motion of the piston, plus the pressure of the expanding air, forces the water through the coffee grounds in the brew chamber and out through the delivery funnel to the trough. The heated, compressed air follows the water through the grounds forcing the remaining water out of the grounds and drying the grounds.

FIGURE 3.4

After the water has passed through the bed of grounds, the brewer starts the portion of the cycle that empties the brewer of spent grounds and resets the brewer for the next vend. The looseness in the brew carriage cable is removed and the piston and cylinder are raised far enough to allow the brew carriage to pass under the cylinder.

The cable is then slowly unwound, controlling the forward motion of the brew carriage, which is being forced forward by the carriage rod springs. As the brew carriage passes over the two white pawls in the base assembly, the two ears on the sides of brew chamber lift the brew chamber evenly allowing it to ride up the pawls.

As soon as the ears are free of the support of the pawls, the brew chamber snaps downward, diskodging the spent grounds into the grounds bucket. The cable will then begin to retract the brew carriage toward the rear of the base assembly until the brew chamber is directly over the filter and under the delivery chute. At this point the roller of the right rear switch will fall into the valley of the rear carn, removing power from the brewer motor. This returns the brewer to the standby position and the brewer will remain in this position awaiting the next vend (see FIGURE 3.2).

- ★ THE STOPPING POSITION OF THE BREWER IS A CRITICAL ADJUSTMENT. MISALIGNMENT OF THE BREW CHAMBER AND THE FILTER IN THE STOPPING POSITION CAN CAUSE A LEAK BETWEEN THE BOTTOM OF THE BREW CHAMBER AND THE TOP OF THE FILTER. THE CORRECT STOPPING POSITION OF THE BREWER IS INDICATED BY THE CARRIAGE MOVING THE FILTER ASSEMBLY BACKWARDS APPROXIMATELY 1/8" AS THE BREWER COMES TO REST.
- IF YOU DESIRE TO RUN A FRESH BREWED COFFEE VEND TO CHECK FOR PROPER OPERATION, YOU MUST HAVE THE SWING OUT CLOSED <u>OR</u> OPEN THE SWING OUT BRACKET AND PULL THE PLUNGER ON THE INTERLOCK SWITCH.



FIGURE 3.5

FIGURE 3.6

BREW CARRIAGE AND CABLE ADJUSTMENT

The horizontal movement of the carriage is caused by the springs in the base assembly. The action of the springs is controlled by the brew carriage cable assembly. The cable is wrapped on a spool and wound and unwound to move the carriage in synchronization with the other movements of the brewer. The cable spool is controlled by a gear segment driven by the rear carn of the main carn shaft assembly. The shape of the carn determines when the cable is wound and unwound.

When the cylinder is pressing down on the brew chamber, the cable should be slack. Just as the clear brew cylinder begins to raise, the cable tightens to prevent the carriage from jumping forward as the cylinder clears the alignment shoulder of the brew carriage. As soon as the cylinder is high enough to clear the carriage, the cable is unwound and the carriage moves forward to dump the spent grounds. After the spent grounds are dumped, the cable again winds on the outer spool and pulls the carriage to the stopping position.

The cable is attached to the outer section of the spool with a cotter pin. The inner portion of the spool is connected to a shaft and a small gear. The gear is rotated by a pivoting segment gear driven by a cam follower riding on the edge of the rear cam of the main shaft assembly. The inner and outer sections of the cable spool have matching teeth which provide a positive mesh, but allow for adjustment. When the two parts are assembled, they are secured by a screw and washer which prevent them from being disengaged.

ADJUSTMENT OF THE BREW CABLE



CAUTION: THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK EXISTS

Operate the brewer through a complete cycle and observe that:

- A. The alignment shoulder of the carriage is slightly behind the rear vertical edge of the brew cylinder just as the cylinder starts down. (See FIGURE 3.9)
- B. The cable goes slightly slack just before the cylinder contacts the surface of the brew chamber gasket.
- C. After brewing, the carriage moves forward slowly and evenly all the way to the dump position.

If all three of these conditions are not met, then a cable adjustment should be made using the following procedure:

- Swing the coffee hopper out to allow clear access to the brewer. Depress the right rear switch on the top of the brewer and allow the brewer to cycle to the brew position. Turn off power.
- Remove the two outside screws in the top bracket and one screw in the bottom brewer mounting brackets.
 Loosen the remaining mounting screws in the keyhole slots in the top and bottom mounting brackets.

 Locate the wiring harness for the brewer and release the harness from the cable clamp on the rear wall of the cabinet so that the brewer harness is hanging free.
 Lift the brewer to clear the keyholes and turn the brewer clockwise to access the cable spool on the rear of the brewer.



FIGURE 3.7

 Mark the inner and outer section of the cable spool with a pencil line across both pieces to provide a reference mark.

Restore power and cycle the brewer to the dumping position and turn off the power.

If the carriage was not correctly behind the cylinder and is being forced back out of the way <u>or</u> the cylinder is resting on top of the alignment shoulder of the brew carriage (see FIGURE 3.9) and causing the brew water to leak from between the cylinder and the brew chamber, then an adjustment of only one or two teeth to shorten the cable is needed - go to step 12. If the original adjustment has been lost, then a `scratch' adjustment will have to be made - continue to step 8.



- Confirm that the cam follower is in the deepest valley of the rear cam (See Figure 3.11) by cycling the brewer to this position. This position of the cam and follower guarantees that the brewer is in the dump position.
- Feed the cable down between the white roller and the support bracket and towards the front of the brewer.
 Slip the cable into the slot on the rear of the carriage.
- 10. Wind the cable clockwise on the outer spool until the carriage is pulled back from the inner face of the base assembly (See Figure 3.10) 1/8 to 3/16 inch.



FIGURE 3.10



FIGURE 3.11

- 11. While holding the follower in the valley of the cam, (see FIGURE 3.11) install the outer section of the cable spool over the inner section. Release the follower and spool and check that the clearance set above is maintained. If so, make a new reference mark across the spool and remove the outer section of the spool and rotate it counter-clockwise one tooth proceed to Step 13.
- Carefully pull the outer section of the cable spool off and rotate it one tooth clockwise to tighten the cable and replace the outer spool.
- Restore power and cycle the brewer again, watching for the three conditions listed at the start of this procedure.
- 14. If the carriage is still not being drawn back far enough during the cycle, repeat Step 12.
- 15. After ensuring that the cable is adjusted correctly, replace the screw and washer that secure the two halves of the cable spool and cycle the brewer to the brewing position and turn off the power. Lift the brewer and turn brewer counter clockwise to its original position and replace the screws removed in Step 3 above and tighten the keyhole screws. Restore power and test vend.
- IF YOU DESIRE TO RUN A FRESH BREWED COFFEE VEND TO CHECK FOR PROPER OPERATION, YOU MUST HAVE THE SWING OUT CLOSED OR OPEN THE SWING OUT BRACKET AND PULL THE PLUNGER ON THE INTERLOCK SWITCH.

WATER SYSTEM

The water system is a gravity system (thus requiring no pumps or compressors) with an open air break at the tank inlet required by most local codes. The temperature control will maintain the water temperature near the boiling point. Coffee extraction requires hot water as close to boiling as possible. The thermostatic control system has been time proven as a very dependable, yet simple control method.

WATER INTAKE SYSTEM

There are two possible configurations in the intake system. The standard method is a straight tube with a shut-off value between the inlet fitting and the water inlet valve. The optional (and recommended) method provides for a water filter to be installed as a part of the original equipment. The filter housing includes the shut-off valve. To turn off the water at the filter, rotate the black handle counter clockwise.

The coils of the water inlet valve are activated by the float switch on the tank lid. This single top switch controls the intake of water into the water tank. This valve also functions as a safety overflow valve. If the safety overflow (bucket float) switch in the waste or used grounds bucket is open, the valve will not allow water into the water tank.

THE WATER TANK

The water tank for loose ground and the freeze-dried models use the same principles of operation, the only difference being the number and position of the outlets for valves or manifolds. The water tank is constructed of stainless steel and holds approximately four gallons of water.

Both tanks have a removable lid that is sealed at the top of the tank with a gasket. Each tank has one 1500 Watt heater mounted through a hole in the tank lid, controlled by a thermostat mounted on the tank lid. The thermostatic control system consist of a thermodisc located on the lid of the tank that senses the temperature of the water via a copper sensor that extends down inside the tank. The thermodisc is mounted to the tank lid with spring loaded hold downs that will maintain a constant and even pressure on the thermodisc. The thermodisc for the LG water tank is rated at 190 \mathcal{F} (87.5 °C), while the thermodisc for the FD model is rated at 180°F (82°C).

WATER DELIVERY SYSTEM

A maximum of four electrically energized valves with an easily serviceable diaphragm comprise the water delivery system. The number, position and function of the valves change dependent upon the configuration of the machine. They are: the Coffee Brew Water Valve, the Chocolate Water Valve, the FD Coffee/Decaf/Tea Water Valve, the Fresh Brew Tea Water Valve, and the Soup/SGC Water Valve. Each of these valves will release water into its particular segment of the commodity mixing channels, depending on the beverage selected. The arrangement of the valves are dependent upon the model and the configuration of the machine. The standard position of valves in an LG model are a three valve manifold mounted on the left side of the heater tank and a brewed coffee valve located behind the brewer on the front face of the tank. The standard position of the valves in an FD model has a three valve manifold mounted on the left side of the heater tank.



THE COFFEE BREW WATER VALVE

This valve is mounted on the face of the water tank directly behind the brewer. The brew water valve is controlled by the right front switch on the brewer and the duration of channel 1.



CAUTION: ADDITIONAL WATER MUST BE REMOVED FROM THE WATER TANK VIA THE DRAIN BEFORE REMOVING THE BREWER VALVE FOR SERVICE!

TEA, SOUP, FRESH BREW TEA AND CHOCOLATE VALVES

These valves are mounted into a manifold on the left side of the water tank. Separate valves are essential because each beverage may require a different amount of water to brew the beverage properly, and each beverage is made and released from the machine through its own channels to avoid taste contamination. Each valve is controlled by at least one separate time channel on the logic board. Each of these valves is connected to the commodity rack by a flexible silicone hose.

TANK DRAIN

The tank drain is utilized to remove water from the tank for maintenance or transportation of the machine. The drain for the tank will use one of two methods. The older style has a small diameter shutoff valve in a fitting in the bottom of the tank. The newer and currently used method is a large diameter hose, fastened to a large outlet on the bottom of the tank. The end of the hose has large plug in the end of it. This change was to permit regular flushing of the tank to prevent an excessive buildup of minerals in the tank.



CAUTION: DO NOT REMOVE THE LARGE PLUG FROM THE END OF THE DRAIN HOSE UNTIL THE TANK IS PARTIALLY DRAINED USING THE RINSE HOSE, AND THE BUCKET IS EMPTIED AND REPLACED.

RINSE HOSE

A convenience feature is the rinse hose. This is provided for maintaining proper machine sanitation. It is long enough to reach each part of the machine which will normally require cleaning. To avoid any possibility of this hose leaking, a storage bracket has been provided, which holds the outlet of the hose above the normal water level in the tank. This hose also provides a means of partially draining the tank to allow for the removal of a commodity valve for maintenance.



CAUTION - VERY HOT WATER : USE EXTREME CARE WHEN REMOVING WATER FROM THE T THE RINSE HOSE OR DRAIN. WATER IS HOT E CAUSE PERSONAL INJURY.

OVERFLOW HOSE

Both the fresh brew and freeze dried tanks have an overflow tube. The FD overflow is mounted on the upper left rear side of the water tank. In the LG model tank, the overflow function is a standpipe located inside the tank. Water rising above the preset level will overflow down through the standpipe and into the waste bucket. Should the water level in the tank rise too high, regardless of the reason, the excess will run out of the tube, through the overflow tubing and directly to the liquid waste bucket. There should be no kinks or low spots in this hose.

OVERFLOW SAFETY

If an overflow condition continues, the level in the waste bucket will rise and eventually raise the float of the safety overflow switch and disable the Vend Enable Relay (VER), placing the machine on a "OUT OF SERVICE" status. When "OUT OF SERVICE", any coins inserted will be returned. All 120 volt functions from the motor control board will be disabled including the water inlet valves.

REMOVAL OF HEATER ELEMENT

In the event a heater element fails, and must be replaced, removal of the heater element is made less complicated by the addition of an access cover on the roof of the cabinet. This access cover is located in the right rear comer of the cabinet top, and is secured in place by a wingnut. Once the wingnut is loosened, the panel is pivoted clear of the opening in the top of the machine. The positioning of the opening allows the element to be removed from either a fresh brew tank or a freeze dried tank with a minimum of difficulty.

REPLACEMENT OF WATER FILTER CARTRIDGE

The filter cartridge should be replaced periodically in accordance with the manufactures recommended capacity intervals to filter water. A clogged or expired cartridge can cause poor quality beverages and may effect the operation of the water tank by slowing the water fill flow rate.



CAUTION: HIGH WATER PRESSURE MAY BE PRESENT IN THE FILTER HEAD. YOU MUST PERFORM FOLLOWING STEPS TO RELIEVE LINE PRESSURE BEFORE CARTRIDGE CAN BE REMOVED.

- A. On filter head, shut the internal valve off by moving the lever fully counter clockwise.
- B. With machine fully powered, drain water from water tank using the spray hose until water inlet valve can be heard energizing or until machine's "OUT OF ORDER" LED turns on.
- C. Power OFF machine. Turn cartridge to the left until it stops (approx. 1/4 turn). Pull cartridge downward and out of filter head.
- D. On new cartridge, write the date & current machine vend count on label in specified box.
- E. Install new cartridge by first locating the two opposing ears on the top metal section of the cartridge. Hold and position cartridge under the filter head and align one of the ears between the label on filter head. Insert the cartridge straight up into the filter head as far as it will go. You should feel the two "O" rings snapping into place. Upon feeling this, turn the cartridge to the right until it stops (approx. 1/4 turn). (See Figure 1.1)
- F. On the filter head, slowly move the valve lever clockwise until it stops. Power ON machine and check for any leaks.

THE CANISTER RACK

The canister rack provides support for the entire dry product commodity system and is of open construction design, with a minimum of horizontal surfaces to catch dust and spillage. The motors which drive the canister augers are all located behind and under the steel cover. Each motor may be removed, if necessary, by disconnecting the wires, loosening four screws and lifting it out. Water tubes, to direct the water to the mixing channel and whipper, are stainless steel and permanently attached to ensure proper alignment.

COMMODITY SYSTEM

Containers for the dry product which the hot beverage machine dispenses are made of rugged translucent plastic. They are designed to dispense products on a first in-first out basis in order to insure fresh product at all times.

The augering system used to dispense the products runs in reinforced nylon bearings to ensure a long trouble-free life. The dispensing end of the canister have different spouts, some of which have louvers. These louvers control the accuracy of discharge so that proper mixing is assured for each drink. The translucent materials permit the service person to estimate the contents of the canister without having to open the canister. Commodity levels may be marked on the outside of the canister so that the service person can easily refill them to a pre-determined level. This type of control will reduce product waste and assure commodity freshness by the elimination of overfilling.

THE HUMIDITY BAR

The humidity bar is integral part of the commodity system. It is a flat, electrically heated strip, and by provides a slightly higher temperature at the canister spouts, will prevent moisture from being absorbed by the dry products in areas where high humidity is present. If the machine is operated in a humid atmosphere without the humidity bar in operation, it is likely that the dry products will cake and not dispense property. The tabs on the humidity bar fit into their respective slots in the commodity rack between the canisters. The humidity bar plugs into a harness on the left side of the cabinet.

THE STEAM EXHAUST CONTROL SYSTEM

Steam from the hot water needed to make the beverages is controlled by this system. Uncontrolled steam in a vending machine will create severe problems through caking and hardening of the dry products. Such a condition will prevent proper dispensing. By moving low velocity air, in high volume through the areas where steam is generated, the steam is removed before it can reach the dry product dispensers. The steam laden air is moved by a squirrel cage blower, and discharges outside the machine cabinet. The steam is generated whenever the machine is activated to dispense a beverage. The hot water used to make coffee, tea or soup, passes through the main mixing channel as the dry products are dropped. Immediately behind the mixing channel is a vacuum duct which is connected to the exhaust motor by a round plastic hose. Directly over the mixing channel is the steam deflector and commodity chute. Lightener, sugar, tea and soup products are dropped into the moving liquid in the mixing channel directly from their respective canisters.

The design of this deflector is such that a constant stream of dry air is pulled down through the commodity chutes of the deflector and actually helps delivery of the product to the mixing channel. At the same time this deflector effectively prevents the steam vapor from rising in the area of the commodity canister outlets.



The components of the steam exhaust system: the mixing channel, the steam deflector, the steam duct, the hose to the blower, and the metal screen behind the exhaust fan assembly are all easily removed for cleaning. Cleaning is easily accomplished by rinsing in hot water. The mixing channel itself, which carries the beverage, should be sanitized according to the current industry practices.

REMOVAL OF STEAM EXHAUST DUCT

- To remove the steam exhaust duct, pull the top down away from the front plate of the canister rack and lift from the bottom flange.
- 2. To install the steam exhaust duct, place the bottom lip of the duct
- on the bottom flange of the canister rack, behind the front plate.
- 3. Rotate the top of the exhaust duct towards the back of the front plate of the rack until it snaps securely in place.
- Looking at the front of the rack, slide the duct left or right until the slots in the front plate property line up with the ends of the exhaust duct.

See Figure 3.15

REMOVAL OF STEAM EXHAUST DUCT



CHOCOLATE WHIPPER

The chocolate beverage is thoroughly mixed and made more attractive to the user by whipping it as it is delivered. There is a separate mixing system for chocolate. It does not pass through the same mixing system as coffee or other beverages. As soon as the water for chocolate is released the whipper motor, which runs at high speed, starts. The chocolate powder is dropped from its canister directly into the water in the mixing bowl and flows into the whipper chamber and then to the cup. The whipper parts are all of a food service approved plastic material, highly resistant to mechanical damage. They are easily removed, without tools, for sanitization. The mixing assembly is held together by spring clips.

MIXING CHANNEL AND ACCESSORIES

The use of specialty products may require the use of higher speed motors and/or additional whippers. Kits exist for the installation of additional whippers under the outlet of the soup mixing bowl and the channel mixing bowl. The hamess for connecting the additional whipper for the soup position is included in the machine hamess. Hamesses for kits that add an additional whipper to the merchandiser are also available. Certain configurations also contain unique mixing troughs to provide separate dispensing areas to prevent taste contamination between drinks.

FRESH TEA BREWER

The AP 211 also has the capability to deliver a cup of fresh brewed tea. The tea brewer assembly consists of three basic parts: the canister and auger motor assembly, the tea brewer and the spent tea chute and drip tray. The entire assembly occupies the extreme right position on the canister rack. The canister and motor assembly are secured to the top of the rear shelf of the canister rack by one fixed clamp that allows for easy removal. The brewer and drip tray snap into the canister rack using the same locating tabs as a normal canister. The spent tea chute clips into the front of the brewer and guides the spent leaves to the grounds bucket for disposal. The wiring for the tea brewer is part of the canister hamess. It consists of a 6 pin plug which is inserted in a square hole in the rear face of the canister rack, and two wires for the canister motor, which are fed up through a hole in the top shelf of the canister rack.

The tea brewer has a gravity fed, open brew chamber, similar in operation to the coffee brewer, except that no piston is used. A fresh brewed tea selection, once selected, will energize a separate brewed tea water valve to open and delivers the water to the brew chamber via a tube mounted on the side of the canister motor mounting bracket. Seconds later the canister motor augers a small quantity of leaf teal (approximately 2.5 grams for an 81/4 oz drink) into the open brew chamber. Best results are achieved by reducing the flow of the water by adjusting the metering screw on the valve to stretch the water flow out over the longest time possible. This allows the water and tea to steep for as long as possible before the brewed tea liquid flows out the delivery spout and into the mixing channel where lightener and sugar can be added. The lightener and sugar are controlled by channels separate from the coffee lightener and sugar. The tea leaves are prevented from following the liquid by a fine mesh filter that also acts as the bottom of the brew chamber. After the liquid has seeped through the tea, the brewer cycle switch receives a start and duration voltage through the solid state relay located in or on the shadow box to the right side of the master module. This starts the brewer motor and its crank arm into the dump cycle. The crank arm moves the brew chamber and carriage forward as two ears on the side of the brew chamber contact two pawls that force the brew chamber up. As the ears of the brew chamber clear the support of the pawls, the four brew chamber springs snap the brew chamber down, ejecting the spent tea into the chute which guides it to the waste bucket. The brew carriage will then dump cycle a second time to help remove any left over spent tea. Finally the brewer cycles home to await the next vend.

CUP DELIVERY SYSTEM

Every beverage sold through the AP 211 hot beverage merchandiser requires a clean disposable cup. Mounted on the inside of the door is the cup cabinet which is a storage area for a large number of cups and a device to separate and dispense a single cup for each cycle of the machine. Included in the throat of the cup delivery area are two switches which control the function of the cup cabinet and the machine. The index switch mounted at the upper rear of the throat on the cup drop, controls the function of the spirals in the cabinet. When this switch clears the top of the last 5-8 cups remaining in the cup drop ring a circuit to the cup separator switch is established. During a vend, the running voltage from the cup separator switch will supply power to the spiral advance motor for approximately 2.2 seconds. It typically takes two vends in order to advance the next column of cups into the cup ring. When the new stack of cups fall into the throat it presses the spiral advance switch disconnecting the circuit to the spiral motor. The second lower switch, mounted so that it will activate when 3-4 cups remain in the cup drop throat, is the sold out or out of service switch and will disable the vend enable relay and light the "OUT OF SERVICE" LED on the control panel.

CUP CABINET

Cups are stored in an inline flat magazine mounted on the inside of the vendor door. This magazine is completely covered to protect the cups from accidental contamination. The entire cup cabinet may be swung out for easy access to the control board, service switch and selection labels. The base of the cup cabinet holds the cup dispenser.

Cups are moved from the storage position to the dispensing mechanism (referred to as the "cup drop") as needed. When the stack of cups in the cup drop has been reduced to about six cups the spiral advance switch is released causing a circuit which will allow power the cup spiral motor.

Charge to COOP P COOP P COOP P COOP P

FIGURE 3.16

The three cup spirals will turn simultaneously to advance the remaining stacks of cups on the base plate toward the cup drop opening.

When the stack of cups nearest the cup drop opening is advanced, it will drop into the remaining cups. The new cups will press the spiral advance switch which removes the power circuit to the cup spiral motor. The cup spirals are designed so that a stack of standard vending cup will nestle between the turns. It is important that the spirals are property oriented to each other so the stacks of cups will advance in a vertical position.

Figure 3.16 illustrates the relationship between the three spirals. When the spirals are correctly adjusted, the return wire at the end of the spirals will point as shown. When the upper two spirals (which should be identical) point to 6 o'clock, the bottom spiral should point to 8 o'clock. This is done because the bottom part of a cup is smaller in diameter than the top rim.

The spirals are properly set before the machine leaves the factory and should not require adjustment before being put in service. The synchronized movement of the three spirals is maintained by the toothed drive belts which connect the toothed gear on the end of each spiral rod and the cup spiral motor.

CUP DROP MECHANISM

The cup separator used in the AP 211 hot drink merchandiser is a Lisem separator. The rotary motion of the cup drop motor is converted to a push-pull motion by a crank arm which drives the lever of the cup drop ring. The cup to be dropped is separated from the rest of the cups in the stack by the cams of the cup ring. The cup is then guided to the cupwell by a delivery chute. As the cams return to the starting position the next cup in the stack is prepared to be dropped for the next cycle. When the cup mechanism is in a standby position the lever of the cup ring is pulled back against the arm of the cup motor cycle switch.

The correct stopping position of the cup drop ring is shown in Figure 3.17.



FIGURE 3.17

The leading and trailing edges of the cams should be hidden under the gray ring of the cup ring assembly. If an adjustment of the switch is necessary, slightly loosen the two mounting screws and reposition the switch until the correct stop position is achieved and then retighten the screws. However, the arm of the switch should not be bottomed against the body of the switch nor against the body of the cup ring.



Starting voltage for the cup drop motor goes to the normally open (NO) contact of the cycle switch which is being held closed by the lever of the

cup drop ring. This starting voltage is controlled by channel 17, button \mathfrak{G} . The running voltage for the cup drop motor is connected to the normally closed (NC) contact of the cycle switch. The common of the switch is connected to the cup drop motor.

The running voltage remains on the (NC) contact of the switch for the duration of the vend. If the cup drop lever fails to interrupt the voltage due to incorrect switch adjustment or a faulty switch, the cup drop motor will run for the entire vend cycle and deliver multiple cups.

If the start voltage remains on the (NO) contact of the switch longer than one complete revolution of the crank arm, the motor will run a second time. The length of the start voltage is controlled by the setting of channel

17, button 29 and is factory set to 1.4 seconds. When a low quantity of cups fall below the spiral motor switch the (NC) contact will engage. This causes a circuit between the spiral motor and the cup separator switch. During a vend the running voltage from the cup separator switch will supply power to the spiral motor to advance the next column of cups. It will typically take two vends to advance the next column of cups into the cup separator and press the spiral motor switch to disengage its (NC) circuit.

"USE YOUR OWN CUP OPTION"

A standard feature available in the AP 211 detects the presence of a cup or mug in the cupwell and can disable the vend if a cup is not

present. If the cup sensor configuration (channel 17, button ③) is set to 0.0 then the cup delivery circuit will deliver a cup for every vend. If the

cup sensor configuration (channel 17, button O) is set to 0.1, then the vend will not commence until a cup is present in the cupwell. This cup can be placed in the cupwell by the customer or delivered by the machine. If a cup is not being delivered correctly, the flowchart on page 4.16 will assist you in determining the cause of the problem.

211 TROUBLESHOOTING CHART

CAUTION: Certain procedures in the troubleshooting section require that voltage be on in the machine. Exercise extreme caution while performing these procedures to prevent injury.

PROBLEM	POSSIBLE CAUSE	REMEDY
"OUT OF SERVICE" Light on the front display steadily lit	Activated or defective switch for following: low float, cup sold out, overflow or grounds bucket	Check for normal conditions and correct, replace defective switch
	Vend enable relay not energized	Check for 120vac through all above switches and to relay, replace relay
No power to complete machine including fluorescent light and	Power cord unplugged	Plug in power cord
service outlet	Loose or broken wire in power cord	Repair or replace - See Caution on page 1.01
	Bad connections in power cord to EMI filter and switch panel	Check all terminals
	No voltage from main wall outlet	Check outlet and supply circuit breaker- contact certified electrician
	Door Interlock switch or wiring defective or open	Repair or replace
Machine will not vend or accept money	Circuit breaker(s) tripped	Reset or replace
	Power transformer disconnected or defective	Repair or replace Check logic board L1-1 & 2, L1-3 & 5
	Incorrect coin mechanism installed	Check page 2.03 for list of correct coin mechanisms
	Defective coin mechanism	Replace or disconnect and test vend using machine button
	Check cup sensor operation	Set channel 17, button 🕄 to 0.0 to disable and test again
Excessive amount of liquid in overflow bucket	Float switch on hot water tank lid defective or out of adjustment	Adjust or replace switch
	Hot water Tank Float waterlogged	Replace float
	Commodity water valve leaking	Repair or replace
	Water inlet valve leaking	Repair or replace-check supply line for high pressure. Install pressure regulator to correct.
Lightener and/or sugar not selected but appearing in drink	Clogged exhaust system	Check steam exhaust (duct,hose,fan and humidity bar)-clean as needed
	Exhaust motor not running	Service or replace
	Scratched or defective trough causing poor wash	Replace
	Product dispensing too soon / late	Check for incorrect channel times
	Mixed products in canisters	Dump products and replace
Grounds in cup	Brewer dumping wet grounds	See wet grounds section
	Tom or ripped brew filter	Replace
	Missing funnel cover	Replace

211 TROUBLESHOOTING CHART		
PROBLEM	POSSIBLE CAUSE	REMEDY
Weak and/or cold coffee	Check gram throws	Using gram scale, adjust correct channels
	Brew water valve leaking	Repair or replace valve
	Defective thermostat	Replace
	Defective heater	Replace
	Incorrect alignment of brew chamber and filter	Adjust stop position of brewer-check brewer motor brake arm for coasting
Cup occasionally not full	Excessive coffee in brew chamber	Using gram scale, adjust correct channels
(Short cup)	Float rod sticking or bent	Straighten or replace
	Water inlet switch sticking or defective	Replace
	Float rod access cover loose	Secure in proper position
	Water valves opening late due to mechanical defect or low voltage	Repair or replace valve. Correct low voltage problem
	Brewer cable not adjusted property causing brewer leak	Adjust cable
	Brewer stop position incorrect trapping grounds on seal or between chamber and filter	Adjust rear brewer carn or switch for correct stop position
	Check brew chamber seal for excessive grounds	Check for proper alignment of coffee delivery chute
	Clogged water filter	Replace
	Low water supply or damaged supply line	Change water supply or replace water supply line
	Overflow blocked or kinked	Check routing of hose to the overflow bucket
T	Incorrect cylinder and carriage alignment	Check brewer cable adjustment
Wet grounds dispensed from brewer	Clogged brew filter	Replace
(coffee or tea)	Clogged filter support screen	Clean or replace
	Scored or cracked brew cylinder	Replace
	Worn or defective piston or seal	Replace
	Check gram throw	Using gram scale, adjust correct channels
	Soft water or coffee gases causing excessive pressure in brewer	Reduce brew water and install add water kit to reduce excessive pressure
Water only-No coffee	Carriage wiper binding on filter	Confirm that brew filter is seated correctly Clean brew base assembly
	Warped brew filter	Replace
	Bent filter support screen	Replace
	LG canister tunneling	Agitator defective or jammed Auger inoperative
	Faulty interlock switch or assembly	Adjust or replace
	No coffee in canister	Service
	Check channels in set up mode for correct times	See timing chart

211 TROUBLESHOOTING CHART		
Water in grounds bucket	Brew water valve leaking	Repair or replace valve
	Defective piston seal (wet grounds)	Replace
	Incorrect cylinder and carriage alignment	Check brewer cable adjustment
Brewer leaking	Refer to brewer section in service manual	Soft water or coffee gases causing stalling or excessive pressure
	Excessive amount of coffee grounds on brew base assembly	Clean or service
	Cracked or damaged brew cylinder	Replace
	Special washers missing from between brew cylinder and cylinder rods	Replace
	Worn or damaged brew chamber seal	Replace
	Cracked or damaged brew chamber	Replace
	Wom filter or seal	Replace
	Cracked or damaged brew carriage	Replace
	Brew filter support bracket broken	Replace
	Improper brew cable adjustment	Adjust
	Funnel support brace bowed	Replace brew base frame
	Worn or broken delivery funnel	Replace
	Brew base assembly - parts worn or broken (springs, pawls, etc)	Replace parts
	Bent carriage or filter rods	Replace or straighten
No cups	Cups jammed together in cup cabinet	Adjust or replace spiral advance switch
	Wrong type cups or cup ring	Replace cups or cup ring
	Defective cup drop motor	Replace
	USE YOUR OWN CUP option	Cupwell not aligned correctly
	not working	Sensors blocked or dirty
		Sensors or board malfunctioning
		Cup sensor configuration set wrong set channel 17 button 🔁 to 0.0 to disable cup sensor
	Cup System Failure	See Cup Problem Flowchart, page 4.17
	Adjustments	See Service Section, pages 4.11 & 4.12
Multiple or intermittent cups	Cup motor cycle switch out of adjustment, broken or defective	Adjust or replace
· · · · · ·	Cup motor brake arm sticking on causing motor to coast	Check for rubber tip on brake arm-repair or replace
	Cup drop motor start pulse too long	Check channel 17 button 2 for correct duration = 1.8 seconds
	Cup motor cycle switch wiring reversed	Correct wiring

CUP PROBLEM FLOWCHART



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4.17

L8-4

L8-7

L8-9

L8 - OUTPUT OPTIONS L8-1,2,3,5,6,8,11 No connections

Tea Brewer Motor - Relay (24 VDC)

Cold Water Shot - Relay (24VDC)

Key - no connection

LOGIC BOARD PIN CONNECTIONS

L1-POWER SUPPLY

- 24Vac hot L1-1
- L1-2 Key - no connection
- 24Vac neutral L1-3
- 12Vac neutral L1-4
- L1-5 12Vac hot

L2 \$ VALIDATOR

- 12-1 12-2 Credit input Enable
- L2-3 Key
- 12-4
- Escrow L2-5 Credit neutral
- L2-6 Ground

L3 - EXECUTIVE COIN MECH INTERFACE

- L3-1 24Vac return
- L3-2 L3-3 L3-4 Key - no connection
- 24Vac hot
- No connection
- L3-5 Enable jumper to pin 6
- L3-6 Enable jumper to pin 5
- No connection
- L3-7 L3-8 Receive + (RX+)
- L3-9 Receive - (RX-)
- L3-10 Transmit + (TX+)
- L3-11 Transmit (TX-)

L4 MAIN CONTROLLER INTERFACE

- L4-1 Data L4-2 Clock L4-3 Latch L4-4 L4-5 Output enable Diagnostic out of service L4-6 Free vend output L4-7 Cup sense L4-8 Key - no connection L4-9 L4-10 dc Common +12Vdc

- L4-11 +5Vdc
- L4-12 2Khz cup sense L4-13 Cup present indicator

LS KEYPAD SE	LECTION	PANEL	
Pin 8 is commor	n for all corr	binations-each selection	his document
is a combination	of pin 8 plu	s two other pins	
A- 01517	· <u>_</u>	0.0.4	

0707/	<u> </u>	07374	
8+4+7	4=	8+2+4	
8+3+7	5≃	8+2+3	
8+1+7	6=	8+1+4	
8+4+5	*=	8+1+3	
8+1+2	#=	8+1+5	
	8+4+7 8+3+7 8+1+7 8+4+5	8+4+7 4= 8+3+7 5= 8+1+7 6= 8+4+5 *=	8+4+7 4= 8+2+4 8+3+7 5= 8+2+3 8+1+7 6= 8+1+4 8+4+5 *= 8+1+3

L6 - COIN MECHANISM (MICRO-MECH OR L+)

_		
L6-1	To coin mech pin #3	Send line
L6-2	To coin mech pin #6	Accept enable
L6-3	To coin mech pin #7	.25 dispense line
L6-4	To coin mech pin #8	.10 dispense line
L6-5	To coin mech pin #9	.05 dispense line
L6-6	To coin mech pin #11	Reset
L6-7	To coin mech pin #1	+5Vdc
L6-8	To coin mech pin #4	Interrupt line
L6-9	To coin mech pin #5	Data line
L6-10	To coin mech pin #28.13	dc ground
L6-11	Key - no connection	•
L6-12	To coin mech pin #15	24Vdc hot

L7 - MULTI DROP BUS

- L7-1 L7-2 24VDC hot
- Key no connection
- L7-3 L7-4 Common for transmit & receive
- Receive data (RXD) Transmit data (TXD)
- L7-5 L7-6 24VDC Ground
- L7-7 No connection

L8-10	Ground for pins 4 & 7	
RELA	Y BOARD PIN CONNECTIONS	
R1 VEN	ID OUTPUTS	
R1-1	Data	
R1-2	Clock	
R1-3	Latch	
R1-4	Output enable	
R1-5	Diagnostic out of service	
R1-6	Free vend output	
R1-4 R1-5 R1-6 R1-7	Cup sense	
R1-8	Key - no connection	
R1-9	de Common	
R1-10	+12Vdc	
R1-11	+5Vdc	
R1-12	2Khz cup sense	
R1-13		
R2 MAJ	N CONTROLLER INTERFACE	
R2-1		
R2-2	Cup sensor led +	
R2-3	Cup sensor led -	
R2-4		
R2-5	Cup sensor detector	
R2-6	Cup sensor detector	
R2-7		
R2-8	Vend enable +	
R2-9	Free vend (executive key) +	
R2-10		
R3 CUF	SENSE AND EXECUTIVE KEY	CONTROLLED BY CHANNEL #
R3-1	120Vac to brewer	1
R3-2	120Vac to coffee auger	2
R3-3	120Vac to lightener motor	3,13
R3-4	120Vac to sugar motor	4,15
R3-5 R3-6 R3-7	Key - no connection	
R3-6	120Vac to soup water & whipper	8
R3-7	120Vac to soup auger	7
R3-8	120Vac to tea water	6
R3-9	120Vac to tea water 120Vac to tea auger	5
R3-10	120Vac constant (After bucket switches)	
R3-11	120Vac constant (After bucket switches) 120Vac to chocolate auger	9
R3-12	120Vac to choc water and whipper	10
R3-13	120Vac to cup drop motor start	17

POWER BOARD CONNECTIONS

USED ONLY WITH 110V COIN MECH AND/OR VALIDATOR

- P1-1 110V ac neutral in
- Key no connection 110V ac hot in P1-2
- P1-3
- P2-1 110V dc ground to coin mech socket pin 10
- P2-2 110V dc hot to coin mech socket pin 12
- P2-3 Key - no connection
- P2-4 No connection
- P3-1 110V ac neutral to validator pin 6
- P3-2 Key - no connection
- P3-3 110V ac hot to validator pin 4



5-1-