

This machine has been engineered to our own rigid safety and performance standards. It has been designed to comply with sanitation and health guidelines recommended by the Automatic Merchandising Health-Industry Council (AMHIC) and it conforms with all other NAMA safety recommendations.

This machine has been manufactured in accordance with the safety standards of both Underwriter's Laboratories and the Canadian Standards Association. To maintain this degree of safety and to continue to achieve the level of performance built into this machine, it is important that installation and maintenance be performed so as to not alter the original construction or wiring and that replacement parts are as specified in the *Parts Manual*. Your investment in this equipment will be protected by using the *Set-Up Guide*, this *Programming Guide*, and the *Parts Manual* in your operation, service and maintenance work. By following prescribed procedures, machine performance and safety will be preserved.

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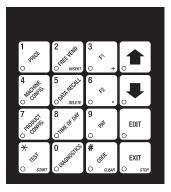
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Hot Drink Center Programming Guide PROGRAMMING THE HOT DRINK CENTER

I. GETTING AROUND

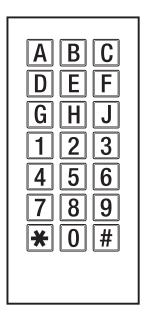
Getting around the Hot Drink Center software is pretty easy once you know the features that are available to you, and how to use them. The three main parts you will use are the SERVICE KEYPAD, the SELECTION SWITCH PANEL, and the DISPLAY.

The Service Keypad



For most of your programming jobs, you will be using the service keypad, conveniently located on the monetary panel. The service keypad has 16 keys. The three columns on the left are the *MODE keys*. *The right hand column contains the MOVEMENT keys*.

The Selection Switch Panel



The selection switch panel is also located on the monetary panel. Unlike the service keypad, it is accessible when the cabinet door is closed. These are the keys the customer will use to make selections. You can also use these keys during programming procedures.

The Displays

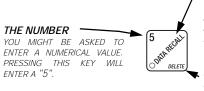
The 10-character display performs two functions, and is referred to in this book as "the display":

- It shows the customer's selection and how much credit is in the machine, as well as the ready, service, and time of day messages.
- It provides information and feedback to the service person during maintenance.



The Function Keys

The keys on the control panel can be used for up to three things:



THE PRIMARY PURPOSE

THIS IS THE MAIN JOB OF THE KEY. FROM THE STANDBY MESSAGE, IT WILL ALLOW YOU TO ENTER A PROGRAMMING MODE. IN THIS EXAMPLE, YOU CAN VIEW STORED SALES DATA.

^L THE SECONDARY PURPOSE

THIS IS THE KEY'S "SECOND JOB". FOR EXAMPLE, THIS KEY CAN BE USED TO DELETE A CHARACTER WHEN YOU ARE EDITING CUSTOM MESSAGES.

Other Keys

The MOVEMENT keys on the control panel let you move inside a mode, and back and forth between modes.



These keys are your "legs", which let you move up and down the list of tasks. They let you continue from one step to the next in programming procedures.

This is your "activate" or "choose" key. It "opens a door" to additional information and lets you begin a programming task once you are inside of a mode. Sometimes, it is used as a toggle switch to show you your choices during a programming task.



EDIT

This key can be used before running a function, or to choose "ALL" in a multiple selection.



This is your "end" key. Pressing it one or more times will move you back to the start of the mode, or all the way back to the standby message.

II. PROGRAMMING PROCEDURES

Some Conventions:

All programming procedures assume that you are starting with the standby mes-

sage showing	in the	display.	If not,	just pre

ess $\begin{bmatrix} EXIT \\ \odot & stop \end{bmatrix}$ until you get there.

Each programming procedure is highlighted by a pointing hand: $\mathbf{x} \in \mathbf{x}^{\mathsf{m}}$ so it will stand out.

Definitions and helpful information will appear in shadow boxes:

HELPFUL HINT

When you see the word **CONTINUE** at the end of a function, it means to press

EXIT

until you return to the standby message.

III. CONTROL PANEL SWITCH FUNCTIONS EXPLAINED



Press this button to put your machine into the Price Setting mode. You can see maximum and minimum machine prices, and change prices for entire machine, entire tray, or individual selection.



Press this button to set up how the Free Vend mode will operate.



Press this button to view the water tank temperature, software version number, machine and accessory configuration, and active selection status.

Press this button to:

- Select display language
- Select coin mechanism and options
- Select bill validator and options
- Select card reader and options
- Select monetary options
- Set winner feature
- Set mug discount option



Press this button to:

- View total sales and vends by whole
 machine, selection, or drink size
- Clear resettable data
 - View or set machine ID

Press this button to:

- Download data into your portable data collection device (PDCD), OR
- Set printer baud rate, depending upon which device you are using Press this button to:
- Set machine configuration
- Set which trays are active

Press this button to:

- Set time of day
- Set day, month, year
- Set up time of day intervals for inhibit, freevend, and discount vending
- Select display messages
- Edit messages
- Set message scrolling speed



OFDA

Press this button to pay one or more coins from the coin mechanism.



Press this button to see any fault or condition that may place the machine out of service



Press this button to:

- Perform TEST VENDS
- Test machine functions



Press this button to:

- Enter the SUPERVISOR mode
 Change the SUPERVISOR access code
- Test displays
- Fill the water tank
- Lock and unlock access to functions
- Set free vend code





IV. SUREVENDTM

SureVendTM ensures that a cup is always available in the cup station before any money is collected or product delivered. The sensing system is a beam of infrared light across the cup station which is broken by the cup when it falls into position.

The SureVendTM software monitors the cup station sensor during the time the cup ring is cycled and for three seconds afterward. If a cup is not detected, the software will first determine if a second cup ring with the same size cups exists and will then try to drop a cup from the second ring. If the second ring also fails to drop a cup or is not usable, the software will repeat the attempt from the first cup ring to attempt to clear any jams in the cup delivery area. Each ring will be tried up to two times. If a cup is still not detected by the infrared sensor then several things happen:

- Any ring that failed twice in a row is placed temporarily out-of-service for a length of time that is determined by the user,
- The customer's credit is either restored for another vend attempt or is returned automatically,
- Three beeps are sounded and the message SELECT ANOTHER SIZE is flashed if another size cup ring is available, or the message INSERT ITUG is flashed in the event that no other cups are available. The customer may always get his money back by pressing the coin return button.

NOTE

INSERT MUG is the default message. You may customize this message if desired (see **EDIT CUSTOM MESSAGE**, page 51 for more information).

Special rules exist to protect both the customer and the operator from loss. First and foremost, the customer is protected because no drink is spoiled nor money lost because a cup fails to fall to the cup station. The customer is given every chance to get his original choice of cup size by trying at least twice per ring to eject a cup. If two rings are available with the same cup size, the system will alternately try to vend a cup from each ring until the cup is delivered or both rings are placed out-of-service.

The operator is protected by the anti-jackpot program of the system. It is conceivable that a customer could prevent cups from reaching the sensing area of the cup station in order to steal the cups and then get his or her money back for the vend. Under the SureVendTM Anti-Jackpot system, the operator can lose no more than two cups in a row per ring. Then that ring is temporarily placed out-of-service both to protect the customer and to discourage theft. The amount of time that the cup ring is out-of-service is programmable from 0 to 99 minutes. After the time has elapsed, the cup ring will return to service but the count of the two failures is kept. If the previous problem was theft, then the next vend attempt from that ring will be successful and the count of the two previous failures will be erased. If the problem is an actual system failure, then the third failure will permanently place that cup ring out of service until a service technician visits the machine.

Alternate cup vends and mug vends still work as before. If a cup ring is out of service due to SureVendTM the alternate vend will only be from a selected large cup to a small cup at the small cup price. An induced SureVendTM failure cannot cause an alternate vend from a selected small cup to a large cup at the small cup price. This protects the operator from customers trying to get large cup drinks at a small cup price. (SureVendTM will not automatically switch to a different cup size in mid-vend because it cannot be ensured that correct change will be returned for the new price.)

SureVend[™] can be turned off if desired (see **TURN SUREVEND[™] ON OR OFF**, page 43).

Hot Drink Center Programming Guide V. THE SUPERVISOR MODE

The supervisor is allowed to do things that a normal user cannot, like controlling access to certain modes. The supervisor can lock out any of the programming modes to anyone who does not have the right "key". Once a supervisor enters the proper code, he or she will be able to:

- Change the supervisor access code
- Lock out any or all of the service keypad modes

portable data collection device

- Grant or deny access to data items during DATA RECALL
- Modify the machine configuration

GAIN ACCESS TO THE SUPERVISOR MODE

1. Press $\begin{bmatrix} \# & & \\ & &$

digit supervisor code within 6 seconds to gain access.

NOTE

A new machine has a factory-set supervisor code of 0000.

When you have entered the right code, you will hear two beeps and see UNLOCKED in the display.

ENTER A NEW SUPERVISOR CODE

- 1. Follow the steps in **GAIN ACCESS TO THE SUPERVISOR MODE**, page 8.
- 2. Press $\begin{bmatrix} \# \\ & & \\ &$

rent supervisor code. Use the number keys to enter a new code.

IMPORTANT

If you enter a new code, be sure to keep a written record of it. There is no other way to access the SUPERVISOR mode.

3. CONTINUE.

ENTER A FREEVEND CODE

then

- 1. Follow the steps in **GAIN ACCESS TO THE SUPERVISOR MODE**, page 8.
- 2. Press $\begin{bmatrix} \# \\ & & \\ &$

until the display shows FREE XXXX. The X's

represent the current freevend code. Use the number keys to enter a new code. If the code is anything other than "0000", it must be entered after the key lock is turned in order to enable free vends.

ENTER A NEW DATA RECALL CODE

If the proper non-zero code is entered, sales and non-resettable sales data can be viewed without opening the machine's door.

- 1. Follow the steps in GAIN ACCESS TO THE SUPERVISOR MODE, page 8
- 2. Press

until the display shows NR XXXX. The X's represent the currently

entered code. Use the number keys to enter a new code, if desired.

NOTE

A code of 0000 disables this feature.

USAGE

With the machine in ready mode, enter the 4-digit code. When the correct code is entered, the non-resettable sales total is displayed. This display will remain active for 9 seconds, or until another key is pressed.

LOCK OR UNLOCK MODE OR PAYOUT KEYS

- 1. Follow the steps in GAIN ACCESS TO THE SUPERVISOR MODE, page 8
- 2. Press \int_{0}^{1} until the display shows either # LOCKED or # UNLOCKED. To

see if a key is locked or unlocked, press that key.

3. Press $\begin{bmatrix} EDIT \\ O \end{bmatrix}$ to change between locked and unlocked. When anyone other

than the supervisor tries to enter a locked mode, the display shows LOCKED.

EXAMPLES: Press $\begin{bmatrix} 5 & & & \\ & & & & \\ & & &$

If you want non-supervisory users to view data but not be able to clear data, leave

the	5 TARECALL	key unlocked, but do lock	#	JODE
	OV ^r DELETE	-	0	CLEAR

NOTE The following mode keys cannot be locked out:





SET DEX OPTIONS (DEX MODE ONLY)

- 1. Follow the steps in Gain Access to the Supervisor Mode, page 8.
- 2. Press

. The display shows one of two resettable bill validator totals trans-

mitted to the DEX device:

CA 304 = **N.C.** - the value of bills in the stacker will be transmitted in a cash format. For example: **200** for two dollars. (This is the default setting.)

- OR -

CA 304 = **N.O.** - the value of bills in the stacker will be transmitted in a dollar count format. For example: 2 for two dollars.

3. Press $\begin{bmatrix} EDIT \\ \odot \end{bmatrix}$ to switch between the two choices. Consult your DEX handheld sup-

plier for the proper settings for your machine.

NOTE

If your bill count is incorrect, the CA304 setting may be wrong. Try using the other setting.

4. Press until the display shows one of the following two date/time options:

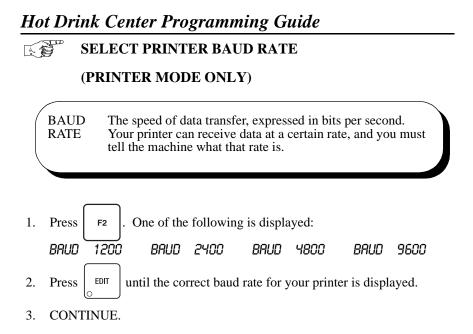
LAST.VND.ON - the DEX device will transmit the date and time of the last vend for each selection.

- OR -

LAST.VND.OFF - the DEX device will **NOT** transmit the date and time of the last vend for each selection. (This is the default setting)

5. Press $\begin{bmatrix} EDIT \\ C \end{bmatrix}$ t

to switch between the two choices.



SELECT DISPLAY LANGUAGE

- 1. Press 4. The current **LANGUAGE** is shown in the display. Press EDIT to choose the desired language. Your choices are: ENGLISH, DEUTSCH, FRANCAIS, ESPANOL, PORTUGUES, NEDERLANDS, or SILIEDISH.
- 2. CONTINUE.

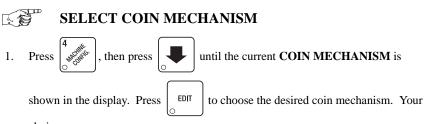
SET TALKER MODE

- Follow the steps in GAIN ACCESS TO THE SUPERVISOR MODE, page 8.
- 2. Press $\begin{bmatrix} \# & & \\ & &$
- 3. Press $\begin{bmatrix} EDIT \\ \odot \end{bmatrix}$ to turn the talker option ON or OFF.

NOTE

Talker hardware must be installed for this to work.

4. CONTINUE



choices are:

DUMB MECH, MDB MECH, EXEC MECH, or NO MECH

2. Proceed to **SELECT MONETARY OPTIONS**, page 16, to customize your coin mechanism choice.

NOTE

Depending upon your choice of coin mechanisms, some displays may not appear.

SELECT BILL VALIDATOR

1. Press $\begin{bmatrix} 4 \\ 1 \end{bmatrix}$



until one of the following is displayed:

- **NO DBV** No bills will be accepted or there is no bill validator installed (you can exit the function).
- SER.1.2.5.10.
 CO
 The serial bill validator is selected and will accept \$1, \$2, \$5, \$10, and \$20 bills. Use BILL SELECTION METHOD below to change the bills which will be accepted.
- **MDB.1.2.5.10.**A standard MDB bill validator is selected. It will accept \$1, \$2,**20**\$5, \$10 and \$20 bills. Use BILL SELECTION METHOD below
to change the bills which will be accepted.

BILL SELECTION METHOD: The standard \$1, \$2, \$5, \$10 and \$20 bills are enabled by pressing the **1**, **2**, **5**, **6**, or **7** key(s), respectively, to display which bill(s) will be accepted.

- MDB. <*>An MDB bill validator which accepts coupons or non-standard
bills (normally used for non-U.S. currency) is connected and
 - operating. Press

to enter list of bills. See BILL LIST

OPERATION. See INITIAL SETUP OF NON-STANDARD BILL VALIDATOR.

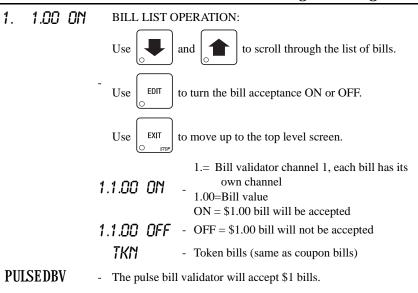
INITIAL SETUP OF NON-STANDARD BILL VALIDATOR:

Connect the bill validator, select MDB in the bill validator selection screens. The standard **MDB.1.2.5.10.20** screen will appear first. Exit the

bill validator setup by pressing EXIT. Bill

information is now collected from the validator. Re-enter the bill validator selection screen and the

non-standard screen MDB. $< \times >$ will appear.



- 2. Press $\begin{bmatrix} EDIT \\ \odot \end{bmatrix}$ to choose the desired option.
- 3. Proceed to **SELECT MONETARY OPTIONS**, page 16, to customize your bill validator choice.

NOTE

- 4. Depending upon your choice of bill validator, some displays may not appear.
- 5. CONTINUE.

SELECT CARD READER

1. Press $\begin{bmatrix} 4 & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$

until the current card reader is shown in the dis-

play. Press EDIT to choose the desired card reader.

- 2. Your choices are: NO CARD, DUMB CARD, or MDB CARD.
- 3. Proceed to **SELECT MONETARY OPTIONS**, page 16, to customize your card reader choice.

NOTE

Depending upon your choice of card reader, some displays may not appear.

SELECT MONETARY OPTIONS

Certain options can be selected, depending upon which monetary devices you have selected.

This function lets you:

- Set change returning criteria
- · Set declining balance
- · Set overbuy options
- Set currency acceptance on low change Set card reader revalue options
- · Set last bill stacking options
- until the display shows **CHANGE X.XX**. , then press 1. Press

X.XX represents the largest denomination coin or bill that will be changed without a purchase. Any non-zero value here will return all escrowed coins. (Each coin denomination for which the coin mech has a tube is called an **ESCROWED** coin because it can be returned.) When the coin return button is pressed, all coins inserted will be returned provided there is a coin mech tube for each of those coins, **EXCEPT** in the forced vend mode.

Some examples:

CHANGE 0.00 - Forced vend; NO change returned without a purchase.

CHANGE .25 - Returns change for all escrowed coins. For international coin sets, this would also provide change for any non-escrowed coins less than or equal to 25. **CHANGE1.00** - Bills and non-escrowed coins less than or equal to \$1.00 will be changed without purchase. All escrowed coins are returned.

2. Press

until one of the following is displayed:

ACC < \$\$ X.XX - Accept any bill of value \$X.XX or less, regardless of available 3. change. Hold the last bill which meets or exceeds maximum price in escrow. (This setting is normally used.)

- OR -

- ACC.STKX.XX Accept any bill of value \$X.XX or less, regardless of available 4. change. Immediately stack the last bill.
- 5. **Example:** If setting is ACC.STK1.00 and maximum price is \$1.50. This setting will immediately stack the second \$1.00 bill inserted.
- EDIT to display the desired choice. 6. Press
- 7. The value of "X.XX" has two purposes:
 - The value of "X.XX" tells the machine how big a bill or coin to accept even though there is not enough change in the coin mech to cover all possible paybacks.

For example, enter 1.00. Therefore, the machine will take a dollar bill or coin even though there is less than \$1.00's worth of change. Entering 5.00 tells the machine to take a five even though there is less than \$5.00's worth of change, and so forth.

NOTE

This could cause a customer to be short-changed.

Entering **0.00** means that bills or coins not held in escrow or in a tube will only be accepted if there is enough change to cover them.

b. The value of "X.XX" tells the machine how much the customer is allowed to overbuy a product. The customer will be short-changed when an overbuy occurs. **Example:**

For a value of \$0.25: if there is no change in the machine and the customer inserts a \$1.00 bill. The customer can purchase a product for \$0.75 even though the change cannot be paid back. The customer will be short-changed. Normally a purchase will not be approved unless all change can be paid.

Entering 0.00 means that the vend will only be approved when the correct change can be returned (overbuy disabled).

8. Press until the display shows: LOWNSG X.XX. The display will show USE

EXACT CHANGE when the amount of available change in the coin mechanism falls below the value of "X.XX". Enter a value with the number keys. For example, if **LOWMSG 1.00** is displayed, the **USE EXACT CHANGE** message is displayed when less than a dollar's worth of change is in the coin mechanism.

DECLINING BALANCE: Once credit is established, multiple vends may occur until the coin return is pressed.

- 9. Press $\mathbf{\mathbf{b}}$ until one of the following is displayed:
- 10. **DECLINE.ON** More than one vend is allowed, with a declining balance.

- OR -

- 11. **DECLINE.OFF** A declining balance is not allowed.
- 12. Press $\begin{bmatrix} EDIT \\ \bigcirc \end{bmatrix}$ to display the desired choice.
- 14. **REVALUE.ON** Allows credit to be transferred onto the card
- 15. **REVALUE.OFF** Credit cannot be transferred to the card
- 16. Press $\begin{bmatrix} EDIT \\ \bigcirc \end{bmatrix}$ to display the desired choice.

SET UP WINNER MODE

WINNER At preselected intervals, a customer may receive a refund for a selection. You can select the interval and qualifying selections.

1. Press $\begin{bmatrix} 4 \\ w^{c} \\ c \end{bmatrix}$

, then press $\begin{bmatrix} \bullet \\ \bullet \end{bmatrix}$

until one of the following is displayed:

WINNER OFF Winner function is disabled.

- OR -

 \amalg XXX Winners are allowed at certain intervals, represented by "XXX".

Press $\begin{bmatrix} EDIT \\ O \end{bmatrix}$ to display the desired choice.

If you selected *WINNER OFF*, you can exit the function.

- The display shows UIN XXX. XXX represents the number of vends which must occur per each winner vend. For example, an interval number of 50 means that a winner can happen any one time during the next 50 vends. Using the number keys, enter an interval number between 10 and 9999.
- 3. Press . The display shows *-----. The dashes in the display

represent which selections are allowed winners. Press the appropriate letter key to enable a selection, press the key again to disable it. For example, pressing A, C, and E will cause the display to look like this:

R - C - E - - - -, meaning that all A, C, and E selections can have a winner.

ADVANCED OPTIONS:

- Press 0 or 1 to set winner selections by cup size.

NOTE

If displaying WINNER by selection, press EXIT once to

redisplay wildcard (*, ABC....) selections.

AN EXAMPLE ...

You want to enable winners on all selections except E and F. Do the following:

- a. Press $\left[\begin{array}{c} \star \\ \circ \\ \circ \end{array} \right]$. The letters **A** through J appear in the display instead of the dashes.
- b. Press "**E**" and "**F**". The letters \mathcal{E} and \mathcal{F} in the display are replaced by dashes.

NOTE

This is a two-part screen. Press $\begin{bmatrix} EDIT \\ O \end{bmatrix}$ to display selections $X_{-} = 2$

SET UP MUG DISCOUNT

You can establish a discount for customers who use their own mug.

1. Press $\begin{bmatrix} 4 \\ 4 \end{bmatrix}$, then press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$ until the display shows MUG DSC .00.

This example shows the existing discount amount is zero.

Enter a discount amount. This will be in cents, for example press or 5 to enter a discount amount of 5 cents.



SET THE MACHINE CONFIGURATION CODE (SUPERVISOR MODE ONLY)

Press $\begin{bmatrix} \mathbf{T} & \mathbf{T} &$

1. CONTINUE.

ration code for your machine.

Table D1 Machine Type Configuration

Enter for (W)	Definition	
1	Hot Drink Center	
2	Reserved for alternate use	

Table D2 6th Product (Selection C) Configuration

Enter for (X)	Definition	
1	No 6th product	
2	6th product present, but receives no condiments	
3	6th product present, may receive condiments	
4	Water only	

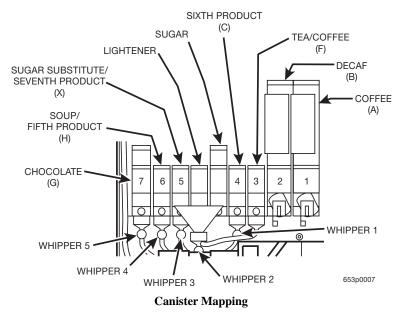
SINGLE BREW	A machine with only one brewed selection (the second selection is freeze dried). Uses a single barrel brewer.
DUAL BREW	A machine with two brewed selections. Uses either a dual or single barrel brewer.
DUAL CONDIMENT	A machine with two separate sets of condi- ments (lightener/sugar) to avoid cross-flavor- ing. Normally used with a dual barrel brewer.

Enter for (Y)	Coffee Mix	Number of Brewers	Condiment Sets
1	Single Brew	One	Single
2	Dual Brew	One	Single
3	Dual Brew	Two	Single
4	Single Brew	One	Dual
5	Dual Brew	Two	Dual
6	Freeze Dry	None	Single
7	Freeze Dry	None	Dual

Table D3 Brewer Configuration

Table D4 Canister Mapping (See figure below)

Enter for (Z)	Menu Selection Letters for Canister Numbers			
	3 (Single condiment only)	2	1	
1	F	В	А	
2	F	А	В	
3	В	F	А	
4	В	А	F	
5	А	F	В	
6	А	В	F	



DISABLE SELECTIONS IN THE MERCHANDISER

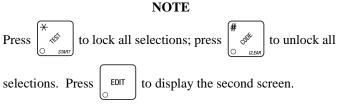
1. Press $\begin{bmatrix} 7 & 0 \\ 0 & 0 \end{bmatrix}$, then press

until the display shows something like

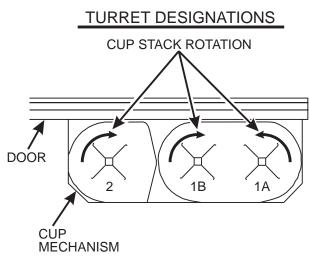
this:

LK. **ABCDEFGH**. This display means that all regular size selections (A - H) are not available for vending. An available selection has its letter replaced by a dash (-)

2. Press the appropriate letter to toggle the display on or off.



3. CONTINUE.



VIEW LOOKING DOWN

SET UP CUP SIZES

Make sure the cup sizes you select agree with the cups you have actually loaded during setup.

1. Press $\begin{bmatrix} 7 & 0 \\ 0 & 0 \end{bmatrix}$ the display shows X. \mathcal{Y} . \mathcal{DZ} . "X" is the currently selected

drink size for the cups in turret 2 (normally large cups), "Y" is the currently selected drink size for the cups in turrets 1A and 1B (normally regular cups).

2. Press $\begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$ to change the #1 cup ring size; press $\begin{bmatrix} 2 \\ 1 \\ 1 \end{bmatrix}$ to change the #2

cup ring size.

- 3. Any changes made to the cup sizes must be "locked in". There are two ways to do this:
 - a. If you are keeping some cup sizes the same, or putting the cups in differ-

CLEARING, two beeps sound, then shows *FINISHED*. This will reassign the old throw times to the new cup ring, if possible.

b. If you are loading all different size cups, or want to load all new default

times, press and hold $\begin{bmatrix} \# \\ & & \\$

CLEARING, two beeps sound, then shows *FINISHED*. This will reload the factory default times for all cup sizes, clearing any custom throw times you have established. (See the tables on the following pages for the factory default times.)

ASSIGN CUP SIZES TO SELECTIONS (SUPERVISOR MODE ONLY)

You can load up to two different sizes of cups in your machine (see SET UP **CUP SIZES**, page 24). You may not always want a certain selection to use all of the cup sizes in your machine. For example, espresso is normally served in regular cups, so you probably will not want it to be available in large or jumbo cups.

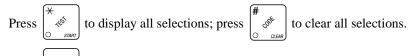
1.

Press , then press , then press until the display shows something like

this:

O. **ABCDEFGH.** This display means that the smaller of the two cup sizes (\mathcal{O}) is available for all selections (A - H).

NOTE



EDIT to display remaining selections ($\mathcal{G} \times \mathcal{A}_{-}$. . .). In this dis-2. Press

play, the "X" represents the 7th product, and the "2" represents the cup only selection.

NOTE

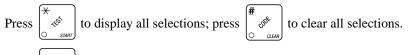
If you have only one cup size in your machine, you will not see the next display.

3. Press \mathbf{I}_{0} . The display shows something like this:

1. ABCDEFGH. This display means that the larger of the two cup sizes (1) is available for all selections (A - H).

Press the appropriate letter to toggle the display on or off. A selection that 4. doesn't vend the displayed size cup has its letter replaced by a dash (-).

NOTE



Press | EDIT | to display remaining selections (1 X_2_ _ _). In this dis-5.

play, the "X" represents the 7th product, and the "2" represents the cup only selection.

To vend a cup only, press 1, 2, 3 (large size) or 2, 3 (regular size).

CONTINUE. 6.

SET UP A HOT DRINK

Be sure that the cup sizes you set in **SET UP CUP SIZES**, page 24, agree with the cup sizes actually in your machine. All procedures for setting up the hot drinks are similar, so this example will demonstrate how to set up the A selection, regular size fresh brew coffee.

1.

Press , then press , then press until the display shows SETUP - *. The

star (*) represents the selection (A, B, etc.). The dash (-) represents the

size of the selection.

- 2. Press A. (If you were setting up the A selection for the large size drink, you would press 1 first, then A.) The display shows WAT. A 8.25. This means that the currently set water throw time for the A selection is 8.25 seconds. Enter a new time if desired.
- . The display shows DRY. A .60. This means that the cur-3. Press

rently set dry product throw time for the A selection is .60 seconds. Enter a new time if desired.

after each display will cause the following screens to 4. Pressing

appear:

spear.	
DRY. A+	View and change the settings for an extra strong drink
SUG. A	View and change the settings for the sugar throw time
SUG. A+	View and change the settings for extra sugar throw time
LIT. A	View and change the settings for the lightener throw time
LIT. A+	View and change the settings for extra lightener throw time
SUB. A	View and change the settings for the sugar sub throw time
SUB. A+	View and change the settings for extra sugar sub throw time
STP. A	View and change the steep time
STP. A+	View and change the steep time for an extra strong drink
AIR. A	View and change the air compressor running time

Whipper Options

ШНР. А ХХХ	Press \bigcirc to view and change the whipper settings as fol-
	lows:
ON-	The last 3 seconds of the drink is always whipped
ON÷	The whole drink is always whipped
OFF	The drink is never whipped
OPT	See below
• If <i>J</i> * is select	cted (see SET THE MACHINE CONFIGURATION

- OPT- The last 3 seconds of the drink is whipped only when the J key is pressed
- OPT+ The whole drink is whipped only when the J key is pressed
- If J- is selected (see SET THE MACHINE CONFIGURATION CODE, page 21):
 - OPT- The last 3 seconds of the drink is whipped unless the **J** key is pressed
 - OPT+ The whole drink is whipped unless the J key is pressed

DIFFERENCES:

Some selections will not show all of these items. The E selection will have some additional selections:

- **WR.2** *E* View and set the water throw time for the cappuccino second product (chocolate)
- $DR.2 \ \epsilon$ View and set the chocolate throw time for cappuccino
- *PCT. E* To automatically compute new times for cappuccino, enter a

the amount of chocolate product in cappuccino, versus that in a normal chocolate drink. This time and the normal coffee settings will compute the new cappuccino time.

Hot Drink Center Programming Guide OPTIONS:

- a. At any of the preceding displays, you can press to test throw that item.
- b. At any of the preceding displays, you can press * or # (on the selection

switch panel) to step through a list of that item's throw times for other selections where that item is active. For example, pressing # at the UAT. *A* display will show the throw time for UAT. *B*. This is a handy way to move from one selection to another without going to the SETUP screen first.

NOTE

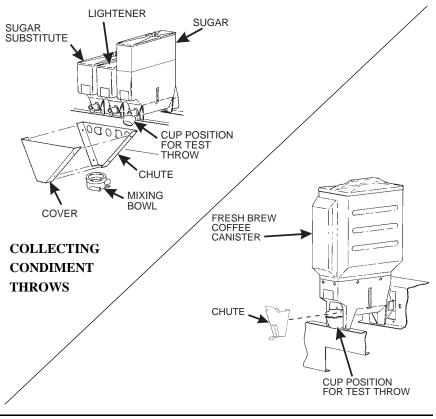
If you try to set up a selection that is not configured, the SETUP screen will remain in the display.

COLLECTING DRY PRODUCT GRAM THROWS

Measuring the gram throw allows you to get the right amount of dry product or condiment into your hot drink. To do this, you need a container to catch the product throw and an accurate gram scale to measure its weight.

- 1. Make a measuring container by cutting down a paper cup until it fits under the canister spout as shown.
- 2. Weigh the measuring cup and zero the gram scale accordingly.
- 3. Make 5 test throws as instructed in the programming steps.
- 4. Weigh each test throw, then add all 5 weights together and divide by 5 to get an average weight.
- 5. If necessary, adjust the throw time and repeat steps 3 and 4 until you get the correct product or condiment weight.

Tables D1 and D2 show the factory default settings for the various dry products sold by the merchandiser. They are good starting points for you to use in setting up your machine. In the end, the amount of dry product or condiments you use in your drinks depends upon taste and manufacturers' recommendations. Recommended weights and times are for guidance only, and you do not have to adhere to them.



		v	Veight (in grat	ns) per	size cu	р
	Selection	Thro	w time	s (in se	conds)	per size	e cup
		5 oz	7 oz	8 oz	9 oz	10 oz	12 oz
А	Fresh brew coffee	5.70 1.60	8.00 2.20	9.00 2.50	10.00 2.80	11.00 3.10	13.00 3.65
А	Freeze dry coffee	0.90 0.35	1.20 0.50	1.50 0.60	1.60 0.65	1.80 0.70	2.20 0.90
А	Strong freeze dry coffee	1.10 0.65	1.50 0.90	1.80 1.10	2.00 1.20	2.20 1.35	2.60 1.60
В	Fresh brew decaf	5.70 1.60	8.00 2.20	9.00 2.50	10.00 2.80	11.00 3.10	13.00 3.65
В	Freeze dry decaf	0.90 0.35	1.20 0.50	1.50 0.60	1.60 0.65	1.80 0.70	2.20 0.90
В	Strong freeze dry decaf	1.10 0.65	1.50 0.90	1.80 1.10	2.00 1.20	2.20 1.35	2.60 1.60
С	Soluble product	10.8 2.45	15.0 3.35	17.8 4.00	19.4 4.35	21.6 4.85	25.9 5.80
D	Fresh brew coffee ESPRESSO	5.70 1.60	8.00 2.20	9.00 2.50	10.00 2.80	11.00 3.10	13.00 3.65
D	Freeze dry coffee ESPRESSO	0.90 0.35	1.20 0.50	1.50 0.60	1.60 0.65	1.80 0.70	2.20 0.90
D	Strong freeze dry coffee ESPRESSO	1.05 0.65	1.50 0.90	1.80 1.10	2.00 1.20	2.20 1.35	2.60 1.60
Е	Fresh brew coffee CAPPUCCINO	5.70 1.60	8.00 2.20	9.00 2.50	10.00 2.80	11.00 3.10	13.00 3.65
Е	Freeze dry coffee CAPPUCCINO	0.90 0.35	1.20 0.50	1.50 0.60	1.60 0.65	1.80 0.70	2.20 0.90
Е	Strong freeze dry coffee CAPPUCCINO	1.05 0.65	1.50 0.90	1.80 1.10	2.00 1.20	2.20 1.35	2.60 1.60
F	Instant tea	0.90 0.70	1.20 1.00	1.50 1.25	1.60 1.30	1.80 1.60	2.20 1.85
F	Strong instant tea	1.10 0.90	1.50 1.25	1.80 1.60	2.00 1.75	2.20 1.85	2.60 2.10
G	Chocolate	17.00 2.80	24.00 4.00	28.00 4.65	31.00 5.15	34.00 5.65	41.00 6.80
Н	Soup	4.30 0.70	6.00 1.00	7.00 1.15	7.60 1.25	8.50 1.35	10.20 1.65
Н	Soluble product	10.80 2.45	15.00 3.35	17.80 4.00	19.40 4.35	21.60 4.85	25.90 5.80
х	Soluble product	10.80 2.45	15.00 3.35	17.80 4.00	19.40 4.35	21.60 4.85	25.90 5.80

Table D1 Dry Product Weight and Throw Time Factory Default Settings

Table D1 Dry Product Weight and Throw Time Factory Default Settings

Selection Chocolate used in cappuccino Sugar used in espresso	5 oz 3.10	ow time 7 oz	s (in se 8 oz	conds)	per size	e cup								
* *	3.10	7 oz	9		Throw times (in seconds) per size cup									
* *			0 UZ	9 oz	10 oz	12 oz								
lugar used in espresso	0.55	4.50 0.75	5.00 0.85	5,80 1.00	6.20 1.05	7.60 1.30								
ugar used in espresso	2.10	3.00	3.50	4.00	4.50	5.50								
	0.35	0.45	0.55	0.60	0.65	0.80								
Extra sugar used in espresso	3.00	4.35	4.80	5.35	6.25	7.20								
	0.50	0.65	0.75	0.80	0.90	1.05								
ugar used in cappuccino	3.50	5.10	6.00	6.80	7.70	9.40								
	0.45	0.65	0.75	0.85	0.95	1.20								
Extra sugar used in cappuccino	4.60	6.80	7.70	8.50	9.40	11.00								
	0.60	0.90	1.00	1.10	1.20	1.45								
bugar used in tea	4.20	6.00	7.00	8.00	9.00	11.00								
	0.55	0.75	0.90	1.00	1.15	1.40								
Extra sugar used in tea	1.50	2.00	2.50	3.00	3.50	4.50								
	0.70	1.00	1.15	1.25	1.40	1.65								
lightener used in tea	1.20	1.50	2.00	2.50	3.00	4.00								
	0.70	0.85	1.15	1.45	1.70	2.25								
Extra lightener used in tea	1.50	2.00	2.50	3.00	3.50	4.50								
	0.85	1.15	1.45	1.70	2.00	2.60								
ugar substitute used in tea	0.60	0.85	1.00	1.10	1.30	1.50								
	0.75	1.05	1.25	1.35	1.60	1.90								
Extra sugar substitute used in tea	0.80	1.10	1.30	1.40	1.60	1.90								
	1.00	1.35	1.60	1.75	2.00	2.40								
bugar	4.20	6.00	7.00	8.00	9.00	11.00								
	0.55	0.75	0.90	1.00	1.15	1.40								
Extra sugar	5.50	8.00	9.00	10.00	11.00	13.00								
	0.70	1.00	1.15	1.25	1.40	1.65								
Lightener	1.20	1.50	2.00	2.50	3.00	4.00								
	0.70	0.85	1.15	1.45	1.70	2.25								
Extra lightener	1.50	2.00	2.50	3.00	3.50	4.50								
	0.85	1.15	1.45	1.70	2.00	2.60								
Sugar substitute	0.60	0.85	1.00	1.10	1.30	1.50								
	0.75	1.05	1.25	1.35	1.60	1.90								
Extra sugar substitute	0.80	1.10	1.30	1.40	1.60	1.90								
	1.00	1.35	1.60	1.75	2.00	2.40								
	ixtra sugar used in espresso ugar used in cappuccino ixtra sugar used in cappuccino ugar used in tea ixtra sugar used in tea ightener used in tea ightener used in tea ixtra lightener used in tea ugar substitute used in tea ixtra sugar substitute used in tea ightener ixtra sugar ightener ixtra sugar izxtra sugar izxtra sugar izxtra sugar substitute ixtra sugar substitute	C C <t< td=""><td>0.53 0.43 ixtra sugar used in espresso 3.00 4.35 ugar used in cappuccino 3.50 0.65 ugar used in cappuccino 4.60 6.80 ixtra sugar used in cappuccino 4.60 6.80 ugar used in tea 4.20 6.00 ugar used in tea 1.50 2.00 ightener used in tea 1.20 1.50 ightener used in tea 1.50 2.00 ightener used in tea 1.50 2.00 ightener used in tea 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.55 ugar 4.20 6.00 ugar 1.20 1.55 ugar 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.85 ightener 1.20 1.50 0.75 ixtra sugar 5.50 8.00 0.70 1.00 ightener 1.50 2.00 0.85 1.15</td><td>0.53$0.43$$0.53$$0.53$$0.43$$0.53$$0.53$$0.43$$0.53$$0.50$$0.65$$0.75$$0.90$$0.65$$0.75$$0.90$$0.45$$0.65$$0.75$$0.45$$0.65$$0.75$$0.45$$0.65$$0.75$$0.45$$0.65$$0.75$$0.45$$0.65$$0.75$$0.90$$1.00$$0.90$$1.00$$0.90$$1.00$$0.90$$1.00$$0.55$$0.75$$0.90$$1.00$$0.55$$0.75$$0.90$$1.00$$0.55$$0.75$$0.90$$1.00$$0.55$$0.75$$0.90$$1.00$$0.55$$0.75$$0.90$$1.00$$0.55$$0.75$$0.90$$1.15$$0.70$$1.00$$1.15$$1.20$$0.70$$0.85$$1.15$$1.45$$0.80$$1.10$$1.35$$1.00$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$$0.75$$0.90$</td><td>0.33$0.43$$0.33$$0.60$$0.30$$0.33$$0.60$$0.33$$0.60$$0.30$$0.50$$0.65$$0.75$$0.80$$0.90$$0.65$$0.75$$0.80$$0.90$$0.65$$0.75$$0.85$$0.45$$0.65$$0.75$$0.85$$0.45$$0.65$$0.75$$0.85$$0.45$$0.66$$0.90$$1.00$$1.10$$0.90$$1.00$$1.10$$1.10$$0.90$$1.00$$1.10$$1.10$$0.90$$1.00$$1.15$$1.25$$0.75$$0.90$$1.00$$1.15$$0.75$$0.90$$1.00$$1.15$$0.75$$0.90$$1.00$$1.15$$0.70$$0.85$$1.15$$1.45$$0.70$$0.85$$1.15$$1.45$$0.70$$0.85$$1.15$$1.45$$0.70$$0.85$$1.15$$1.45$$0.70$$0.85$$1.15$$1.45$$0.70$$0.85$$1.00$$1.10$$0.75$$0.90$$1.00$$1.75$$0.90$$1.00$$1.50$$2.00$$2.50$$0.75$$0.90$$1.00$$1.15$$1.45$$0.75$$0.90$$1.00$$1.75$$0.90$$1.00$$1.15$$1.25$$0.75$$0.90$$1.00$$0.75$$0.90$$1.00$$0.75$$0.90$$1.00$$0.75$$0.90$$1.00$$0.75$<t< 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ugar used in cappuccino 4.60 6.80 ixtra sugar used in cappuccino 4.60 6.80 ugar used in tea 4.20 6.00 ugar used in tea 1.50 2.00 ightener used in tea 1.20 1.50 ightener used in tea 1.50 2.00 ightener used in tea 1.50 2.00 ightener used in tea 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.55 ugar 4.20 6.00 ugar 1.20 1.55 ugar 0.60 0.85 ixtra sugar substitute used in tea 0.60 0.85 ightener 1.20 1.50 0.75 ixtra sugar 5.50 8.00 0.70 1.00 ightener 1.50 2.00 0.85 1.15	0.53 0.43 0.53 0.53 0.43 0.53 0.53 0.43 0.53 0.50 0.65 0.75 0.90 0.65 0.75 0.90 0.45 0.65 0.75 0.45 0.65 0.75 0.45 0.65 0.75 0.45 0.65 0.75 0.45 0.65 0.75 0.90 1.00 0.90 1.00 0.90 1.00 0.90 1.00 0.55 0.75 0.90 1.00 0.55 0.75 0.90 1.00 0.55 0.75 0.90 1.00 0.55 0.75 0.90 1.00 0.55 0.75 0.90 1.00 0.55 0.75 0.90 1.15 0.70 1.00 1.15 1.20 0.70 0.85 1.15 1.45 0.80 1.10 1.35 1.00 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90 0.75 0.90	0.33 0.43 0.33 0.60 0.30 0.33 0.60 0.33 0.60 0.30 0.50 0.65 0.75 0.80 0.90 0.65 0.75 0.80 0.90 0.65 0.75 0.85 0.45 0.65 0.75 0.85 0.45 0.65 0.75 0.85 0.45 0.66 0.90 1.00 1.10 0.90 1.00 1.10 1.10 0.90 1.00 1.10 1.10 0.90 1.00 1.15 1.25 0.75 0.90 1.00 1.15 0.75 0.90 1.00 1.15 0.75 0.90 1.00 1.15 0.70 0.85 1.15 1.45 0.70 0.85 1.15 1.45 0.70 0.85 1.15 1.45 0.70 0.85 1.15 1.45 0.70 0.85 1.15 1.45 0.70 0.85 1.00 1.10 0.75 0.90 1.00 1.75 0.90 1.00 1.50 2.00 2.50 0.75 0.90 1.00 1.15 1.45 0.75 0.90 1.00 1.75 0.90 1.00 1.15 1.25 0.75 0.90 1.00 0.75 0.90 1.00 0.75 0.90 1.00 0.75 0.90 1.00 0.75 <t< td=""><td>0.33$0.43$$0.33$$0.60$$0.63$$x$tra sugar used in espresso$3.00$$4.35$$4.80$$5.35$$6.25$$0.65$$0.75$$0.80$$0.90$ugar used in cappuccino$3.50$$0.65$$0.75$$0.85$$0.95$$x$tra sugar used in cappuccino$4.60$$6.80$$7.70$$8.50$$9.40$$u$gar used in tea$4.20$$6.00$$7.00$$8.00$$9.00$$u$gar used in tea$1.50$$2.00$$2.50$$3.00$$1.10$$x$tra sugar used in tea$1.50$$2.00$$2.50$$3.00$$3.50$$x$tra sugar used in tea$1.50$$2.00$$2.50$$3.00$$3.50$$x$tra sugar used in tea$1.50$$2.00$$2.50$$3.00$$3.50$$x$tra lightener used in tea$1.50$$2.00$$2.50$$3.00$$3.50$$u$gar substitute used in tea$0.60$$0.85$$1.15$$1.45$$1.70$$u$gar substitute used in tea$0.60$$0.85$$1.00$$1.10$$1.30$$ugar4.20$$6.00$$7.00$$8.00$$9.00$$ugar0.65$$0.75$$0.90$$1.00$$1.15$$x$tra sugar substitute used in tea$0.60$$0.85$$1.00$$1.10$$ugar0.75$$0.90$$1.00$$1.15$$x$tra sugar$0.75$$0.90$$1.00$$1.15$$x$tra sugar$0.75$$0.90$$1.00$$1.15$</td></t<>	0.33 0.43 0.33 0.60 0.63 x tra sugar used in espresso 3.00 4.35 4.80 5.35 6.25 0.65 0.75 0.80 0.90 ugar used in cappuccino 3.50 0.65 0.75 0.85 0.95 x tra sugar used in cappuccino 4.60 6.80 7.70 8.50 9.40 u gar used in tea 4.20 6.00 7.00 8.00 9.00 u gar used in tea 1.50 2.00 2.50 3.00 1.10 x tra sugar used in tea 1.50 2.00 2.50 3.00 3.50 x tra sugar used in tea 1.50 2.00 2.50 3.00 3.50 x tra sugar used in tea 1.50 2.00 2.50 3.00 3.50 x tra lightener used in tea 1.50 2.00 2.50 3.00 3.50 u gar substitute used in tea 0.60 0.85 1.15 1.45 1.70 u gar substitute used in tea 0.60 0.85 1.00 1.10 1.30 u gar 4.20 6.00 7.00 8.00 9.00 u gar 0.65 0.75 0.90 1.00 1.15 x tra sugar substitute used in tea 0.60 0.85 1.00 1.10 u gar 0.75 0.90 1.00 1.15 x tra sugar 0.75 0.90 1.00 1.15 x tra sugar 0.75 0.90 1.00 1.15								

 $\mathbf{D} = \mathbf{Expresso}$

I = Chocolate times for cappuccino

E = Cappuccino

* The actual gram weight of a product or condiment throw will vary depending upon the type of product or condiment used. The weights given are approximate based on factory testing.

** Separate sugar, lightener, and sugar substitute timers are available for selections A/B/C/D, E, and F.

COLLECTING HOT WATER THROWS

National Vendors recommends the factory default times be used for hot water throws to ensure proper mixing. Table W1 gives the factory default water throw times for the various size cups and product selections.

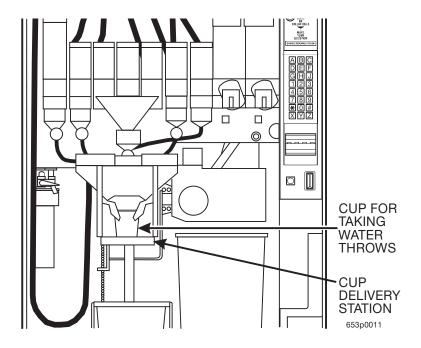


For a non-brewed selection, collect the water throws as follows:

- 1. Place a cup in the cup delivery station.
- 2. Ensure the merchandiser is using the factory defaults for the cup sizes (see **SET UP CUP SIZES,** page 24).
- 3. Initiate the water throw for a selection.
- 4. Remove the cup and pour the water into a graduated cylinder.
- 5. Refer to table W1 for the correct volume of water.
- 6. Adjust the throw time for that selection (see **SET UP A HOT DRINK**, page 26) and repeat steps 3 through 5 until the correct volume of water is thrown.
- 7. If you are unable to get the desired amount of water, reset the throw time to the factory default, then adjust the water valves. You may then readjust the throw times to fine-tune your water throws.

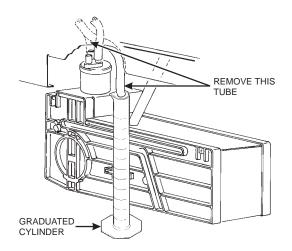
For a brewed selection, collect the water throws as follows:

- 1. Remove water supply hose from the brewer as shown on the next page.
- 2. Place the end of the hose in a graduated cylinder.
- 3. Initiate the water throw for a selection.
- 4. Remove the cup and pour the water into a graduated cylinder.
- 5. Refer to table W1 for the correct volume of water.
- 6. Adjust the throw time for that selection (see **SET UP A HOT DRINK**, page 26) and repeat steps 3 through 5 until the correct volume of water is thrown.
- 7. If you are unable to get the desired amount of water, reset the throw time to the factory default, then adjust the water valves. You may then readjust the throw times to fine-tune your water throws.
- 8. Replace the water supply hose on the brewer.



			Time (i	n secon	ds) per s	size cup				
	Selection	Volume (in ml) per size cup								
		5 oz	7 oz	8 oz	9 oz	10 oz	12 oz			
Α	Fresh brew coffee	4.50 130	6.40 190	7.50 220	8.20 240	9.00 265	11.00 315			
В	Fresh brew decaf	4.50 130	6.40 190	7.50 220	8.20 240	9.00 265	11.00 315			
А	Freeze dry coffee	4.95 120	7.00 170	8.25 200	8.65 210	9.90 240	12.60 305			
В	Freeze dry decaf	4.95 120	7.00 170	8.25 200	8.65 210	9.90 240	12.60 305			
С	6th Product	4.85 100	6.80 140	8.25 170	8.75 180	9.70 200	11.65 240			
D	Espresso (FB)	2.25 65	3.20 95	3.75 110	4.10 120	4.50 133	5.50 158			
D	Espresso (FD)	2.50 60	3.50 85	4.15 100	4.35 105	4.95 120	6.30 153			
F	Теа	4.95 120	7.00 170	8.25 200	8.65 210	9.90 240	12.60 305			
G	Chocolate	4.85 100	6.80 140	8.25 170	8.75 180	9.70 200	11.65 240			
Н	Soup	4.80 110	6.95 160	8.25 190	8.70 200	10.00 230	12.15 280			
н	Soluble Product	4.85 100	6.80 140	8.25 170	8.75 180	9.70 200	11.65 240			
х	Soluble Product	4.85 100	6.80 140	8.25 170	8.75 180	9.70 200	11.65 240			

Table W1 Water Throw Default Times and Volumes



RECIPES

1. Cappuccino

Cappuccino is made with various ratios of chocolate to coffee, according to taste. Lightener (E timer) is also used for cappuccino. Table D2 shows numerous different ways to make cappuccino for each size of cup in your machine. For example, the default chocolate-to-coffee ratio of 15/85 in a 7 oz. cup consists of the following:

- A chocolate throw (product I) lasting 0.55 seconds, providing 15% of the normal chocolate throw (approximately 4.5 grams*).
- A water throw for the chocolate (water I) lasting 2.55 seconds (chocolate product throw plus 2 seconds to ensure the mixing bowl is fully rinsed). The volume is about 56 ml, depending upon how the flow rate is adjusted.
- A throw for cappuccino coffee (product E) equal to a normal coffee (product A) throw.
- A water throw for the freeze dry coffee selection (water E) lasting for 4.35 seconds (101 ml).

- OR -

• A water throw for the fresh brew coffee selection (water E) lasting for 4.00 seconds (115 ml). In either case the water volume is enough to fill the remainder of the cup.

The actual mixing sequence is as follows:

- 1. The coffee portion of cappuccino is made using the same canister/valve combination as the normal (A) coffee.
- 2. After the coffee is completely in the cup, the chocolate portion is made with the selection G canister/valve combination. This gives the drink its traditional "layering".

Chocolate weights will vary with different products

HINTS:

To "fine tune" your Cappuccino drink to your exact taste, set a ratio close to what you like (between 5% and 50%), then turn ratio OFF. Adjust the individual timers until you are satisfied. You may find it necessary to cut down on the amount of sweetener available to a cappuccino drink with a high ratio of chocolate, as the chocolate contains sweetener of its own.

	-	-										1	
	FFEE	Water Settings	Timing (sec)	2.25	2.15	2.05	1.90	1.80	1.70	1.55	1.45		FFEE
	FRESH BREW COFFEE	Water S	Volume (ml)	58	55	53	49	47	45	41	38		FRESH BREW COFFEE
	FRE	Doutont	I GI CEITI	85 (default)	80	75	70	65	60	55	50		FRE
0 (5 oz. cup	FFEE	Water Settings	Timing (sec)	2.50	2.35	2.25	2.10	2.00	1.85	1.70	1.60	o (7 oz. cup	FFEE
Cappuccin	FREEZE DRY COFFEE	Water S	Volume (ml)	57	54	52	49	47	44	41	38	Cappuccin	FREEZE DRY COFFEE
Table D1 Dry Product Settings for Cappuccino (5 oz. cup)	FRE	Doucout	I ercent	85 (default)	80	75	70	65	60	55	50	ettings for	FRE
		Water Settings	Timing (sec)	2.50	2.60	2.70	2.85	2.95	3.05	3.20	3.30	Table D2 Dry Product Settings for Cappuccino (7 oz. cup)	
	Э	Water S	Volume (ml)	52	54	56	59	61	63	66	68	able D2 Dr	E
L	CHOCOLATE	Timina (200)		0.40	0.55	0.65	0.75	0.85	0.95	1.05	1.15	L	CHOCOLATE
		(ma) +42;0M	(11	3.10	4.10	5.00	5.80	6.70	7.60	8.40	9.30		
		Demond	Leicell	15 (default)	20	25	30	35	40	45	50		

			-	r –	1	1	1	1	1	
FFEE	Water Settings	Timing (sec)	4.00	3.85	3.65	3.60	3.40	3.25	3.05	2.90
FRESH BREW COFFEE	Water S	Volume (ml)	115	110	104	102	96	92	87	83
FRE	Doucout	I GI CEIIT	85 (default)	80	75	10	65	60	55	50
FFEE	ettings	Timing (sec)	4.35	4.20	4.00	3.90	3.75	3.55	3.35	3.15
FREEZE DRY COFFEE	Water Settings	Volume (ml)	101	76	92	90	86	81	77	72
FRE	Doucout		85 (default)	80	75	10	65	60	55	50
	Water Settings	Timing (sec)	2.55	2.70	2.90	3.00	3.20	3.35	3.55	3.70
E	Water S	Volume (ml)	56	59	63	65	69	72	76	79
CHOCOLATE	Timina (coo)	TILLING (SEC)	0.55	0.70	0.85	0.95	1.10	1.25	1.40	1.55
	Woiaht (am)	weigin (gin)	4.50	5.80	7.10	8.00	9.30	10.50	11.80	13.10
	Doutont		15 (default)	20	25	30	35	40	45	50

cup)	FRESH BREW COFFEE	Dorrout Water Settings		5 85 (default) 153 5.05	0 80 150 4.95	5 75 144 4.75	5 70 137 4.50	5 65 131 4.30	0 60 124 4.05	5 55 118 3.85	5 50 112 3.65	cup)	FRESH BREW COFFEE	Dorrout Water Settings		0 85 (default) 172 5.60	5 80 155 5.05	0 75 152 4.95	0 70 144 4.70	5 65 138 4.50	0 60 133 4.35	5 55 126 4.10	0 50 124 4.05
ino (8 o:	COFFEE	Water Settings	I) Timing (sec)	5.55	5.40	5.15	4.95	4.75	4.60	4.45	3.85	ino (9 o.	COFFEE	Water Settings	I) Timing (sec)	5.90	5.65	5.50	5.30	5.05	4.80	4.65	4.50
Cappuce	FREEZE DRY COFFEE	Wate	Volume (ml)	132	128	122	117	112	108	105	91	· Cappuce	FREEZE DRY COFFEE	Wate	Volume (ml)	140	134	130	125	119	113	109	105
ettings for	FRE	Dercont		85 (default)	80	75	0 <i>L</i>	65	60	55	50	ettings for	FRE	Dercont		85 (default)	80	75	0 <i>L</i>	65	60	55	50
Table D3 Dry Product Settings for Cappuccino (8 oz. cup)		Water Settings	Timing (sec)	2.65	2.80	3.00	3.15	3.35	3.60	3.80	3.95	Table D4 Dry Product Settings for Cappuccino (9 oz. cup)		Water Settings	Timing (sec)	2.75	2.95	3.15	3.35	3.60	3.85	4.00	4.25
lable D3 Dı	E	Water	Volume (ml)	65	62	99	69	73	8 <i>L</i>	82	85	lable D4 Dı	ΈE	Water	Volume (ml)	09	64	89	72	LL	82	85	06
	CHOCOLATE		TILLING (SCC)	0.65	0.80	0.95	1.10	1.30	1.50	1.65	1.85		CHOCOLATE	Timina (200)		0.75	1.00	1.15	1.35	1.60	1.80	2.00	2.25
		Woiaht (am)	weigm (gui)	5.40	6.80	8.00	0£.6	11.00	12.70	14.00	15.65			Woiaht (am)		5.8	7.6	8.8	10.5	12.3	13.9	15.3	17.1
		Dorcont	Tercent	15 (default)	20	25	30	35	40	45	50			Dercont	Tercent	15 (default)	20	25	30	35	40	45	50

		E	Table D5 Dry Product Settings for Cappuccino (10 oz. cup)	y Product Se	ettings for	Cappuccine	o (10 oz. cuț	(
		CHOCOLATE	E		FRE	FREEZE DRY COFFEE	FFEE	FRE	FRESH BREW COFFEE	FFEE
Doucout	Woicht (am)		Water S	Water Settings	Domont	Water 5	Water Settings	Domont	Water 5	Water Settings
Lercellt	weigin (gui)		Volume (ml)	Timing (sec)		Volume (ml)	Timing (sec)	Lercent	Volume (ml)	Timing (sec)
15 (default)) 6.2	0.80	62	2.80	85 (default)	166	7.00	85 (default)	185	6.40
20	8.0	1.05	65	2.95	80	161	6.80	80	178	6.15
25	9.8	1.30	70	3.20	75	155	6.55	75	172	5.95
30	11.3	1.50	74	3.40	70	150	6.35	70	167	5.80
35	13.6	1.80	80	3.70	65	143	6.05	65	159	5.50
40	15.3	2.05	85	3.95	60	137	5.80	60	152	5.25
45	17.1	2.30	06	4.20	55	131	5.55	55	144	4.95
50	18.7	2.50	94	4.40	50	126	5.35	50	138	4.75
		T	Table D6 Dry Product Settings for Cappuccino (12 oz. cup)	y Product Se	ettings for	Cappuccine	0 (12 oz. cuț			
		CHOCOLATE	E		FRE	FREEZE DRY COFFEE	FFEE	FRE	FRESH BREW COFFEE	FFEE
Domont	Woicht (am)		Water 5	Water Settings	Doucout	Water ?	Water Settings	Domont	Water 5	Water Settings
	weigin (gui)	TIIIIII (Sec)	Volume (ml)	Timing (sec)		Volume (ml)	Timing (sec)		Volume (ml)	Timing (sec)
15 (default)	7.6	1.00	64	3.00	85 (default)	223	9.35	85 (default)	231	8.15
20	9.8	1.30	10	3.30	80	215	00.6	80	223	7.85
25	11.8	1.55	76	3.60	75	208	8.70	75	215	7.55
30	13.9	1.85	82	3.90	70	201	8.40	70	207	7.25
35	16.1	2.15	28	4.15	65	193	8.05	65	201	7.05
40	18.2	2.45	63	4.45	60	185	7.70	60	193	6.75
45	20.4	2.75	66	4.75	55	178	7.40	55	185	6.45
50	22.3	3.00	105	50.5	50	171	7.10	50	178	6.20

2. Caffé Latte

Caffé Latte has a rich, robust coffee flavor. It is a full-bodied hot beverage with extra creamer, whipped to frothy perfection, with sugar optional. Try this recipe to expand your gourmet product selections and increase premium pricing opportunities.

ENTER THE SUPERVISOR CODE:

digit supervisor code within 6 seconds to gain access.

NOTE

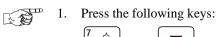
A new machine has a factory-set supervisor code of 0000.

When you have entered the right code, you will hear two beeps and see UNLOCKED in the display.

SET THE MACHINE TO VEND A LARGE "D" SELECTION:

NOTE

Ensure that your machine has been configured for two separate cup sizes, and that the larger size is 12 oz.. See SET UP CUP SIZES, page 24.





the display shows

1. ABCDEFGH. Make sure the "D" is displayed. If not, press "D" on the selection switch panel to display the "D".

2.

Press $\begin{vmatrix} EXIT \\ O \\ Stree \end{vmatrix}$ twice to return to the standby message.

SET UP YOUR SELECTION:

- 1. Set up the 1D selection as follows (see SET UP A HOT DRINK, page 26):
 - a. Coffee: 17 grams
 - b. Sugar: 2.5 grams
 - c. Lightener: 5 grams
 - d. Water: 6 ounces (about 177 ml)
 - e. Steep time: 12.5 seconds
 - f. Whip: ON +

To get these measurements, see COLLECTING DRY PRODUCT GRAM THROWS, page 29, and perform test throws of the dry ingredients. See COL-**LECTING HOT WATER THROWS,** page 32, and perform test water throws.

Hot Drink Center Programming Guide 3. European Cappuccino

Introducing a great new blended drink called EUROPEAN CAPPUCCINO: First, a portion of cappuccino topping mix (or lightener) is dispensed, then layered on top is a small serving of strong coffee.

- 1. Replace product in the the soup (or international coffee) canister with the lightener or cappuccino topping mix.
- 2. Press $\begin{bmatrix} \# \\ & & \\ &$

digit supervisor code within 6 seconds to gain access.

NOTE

A new machine has a factory-set supervisor code of **0000.**

When you have entered the right code, you will hear two beeps and see

a. Press $\begin{bmatrix} 7 & 0 \\ 0 & 0 \end{bmatrix}$, then press $\begin{bmatrix} \bullet \\ \bullet \end{bmatrix}$ until the display shows B- J+ WXYZ.

- b. UXYZ is the current configuration code, where W = the machine type, X = 6th product configuration, Y = brewer configuration, and Z = canister mapping. See "Set the Machine Configuration Code" on page 21. You will be changing the number represented by X. The only way to do that is to change all four numbers, so at this time write down your configuration code so you will know where to start if you make a mistake.
- c. Replace "X" as follows:

If your current value of X is:	Change it to:
1	5
2	6
3	7
4	8

For example: If your current configuration code is U = 2 = 3 = 7, you will enter the numbers U = 5 = 3 = 7. Your new drink will be selected with the H key. Valid selections are H3 (black) and H4 (with sugar). After the reconfiguration, timers for the topping mix or lightener are under the H selection as DR2, and the timers for the coffee serving are under the H selection. Now, you need to alter the water throw times for the two selections. Consult Table W1 on page 34 for suggestions for a starting point for your new drink.

VIEW OR SET THE HOT WATER TANK TEMPERATURE

1. Press $\left[\begin{array}{c} & & \\$

example, 202° is the water tank temperature setpoint in degrees Fahrenheit. If a decimal point appears next to the "F", the heater is on.

2. If desired, enter a new setpoint in the accepted range of $149^{\circ} - 205^{\circ}$ F (65° - 96° C).

NOTE

The lower limit for vending is 20° below setpoint, up to a maximum of 180° F (82° C).

3. To change display units (replace the "F" with a "C" for Celsius), press



4. CONTINUE.

SET THE AUTOMATIC BREWER RINSE TIME (BREWER EQUIPPED MACHINES ONLY)

The brewer will be automatically rinsed by one of two methods: You can specify a set time of day when the brewer is rinsed, or you can specify that rinsing takes place a set time after the last brewed selection is vended.

1. Press



until the display shows one of the following:

SAN.TITT 4.5 The time of day (in hours and tenths of hours) the machine rinses the brewer. In this example, brewer rinse takes place each day at 4:30 am. Range: 0.0 - 23.9 in .1 hour (6 minute) increments.

- OR -

SAN.HRS 2.5. In this example, brewer rinse takes place 2.5 hours after the last vend. Range: 2.0 - 12.5 hours, in .1 hour (6 minute) increments.

NOTE

If 24 hours passes without a vend, no rinsing will take place. This eliminates unnecessary rinsing over a weekend or holiday.

2. Whichever one of the two choices is displayed is the method by which the

EDIT

brewer will be rinsed. Press

to switch between these two displays.

Enter a new time, if desired.

3. CONTINUE.

SET THE BOWL RINSE TIME

Mixing bowl(s) can be automatically rinsed by one of two methods: You can specify a set time of day when the bowl is rinsed, or you can specify that rinsing takes place a set time after the last selection is vended.

1. Press $\begin{bmatrix} 7 \\ 0 \\ 0 \end{bmatrix}$



until the display shows one of the following:

RIN.HRS 2.5 - This is how soon the machine rinses the bowls after a vend. In this example, bowl rinse takes place 2.5 hours after the last vend. Range: 2.0 - 12.5 hours, in .1 hour (6 minute) increments.

- OR -

RIN.TIM 4.5 - The time of day (in hours and tenths of hours) the machine rinses the bowls. In this example, bowl rinse takes place at 4:30 am. Range: 0.0 - 23.9 in .1 hour (6 minute) increments.

NOTE

If 24 hours passes without a vend, no rinsing will take place. This eliminates unnecessary rinsing over a weekend or holiday.

- OR -

RINSE OFF - No bowl rinse takes place.

2. Press $\begin{bmatrix} EDIT \\ \odot \end{bmatrix}$ to switch between these options, and the number keys to enter

new values.

3. CONTINUE.

Press

1.



until the display shows one of the following:

SURE.V DFF: None of the SureVendTM functions are available. Use this if the SureVendTM system is not installed, or there is some reason you do not want to use it (for example in a high cup theft situation).

SURE.V ON. The SureVendTM system is operative. All of the SureVendTM functions are available.

2. Press

to switch between the two choices.

TURN SUREVENDTM ON OR OFF

3. CONTINUE.

EDIT

OPTIONAL OR MANDATORY SUREVEND™

1. Press $\begin{bmatrix} 7 & 0 \\ 0 & 0 \end{bmatrix}$ then $\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$ until the display shows one of the following:

UPT'N SURE.V: The machine reverts to home switch operation of the ring motors if the SureVendTM system cannot operate normally because of an obstruction in the cup station or for any other reason.

MUST SURE.V: The vending machine is operational only if the SureVend[™] system is determined to be working. Otherwise, the machine will go temporarily out of service until the blockage or other error is corrected.

- 2. Press
- EDIT to switch between the two choices.
- 3. CONTINUE.



SET UP THE SUREVENDTM ANTI-JACKPOT TIMER

1. Press $\begin{bmatrix} 7 & 0 \\ 0 & 0 \end{bmatrix}$ then $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ until the display shows AJP.TMR XXM. XX

represents how many minutes SureVendTM will be disabled for either cup ring. The same value applies to the two timers (one on each ring).

2. Enter a number using either keypad.

If any cup ring motor fails to deliver a cup on two consecutive attempts, the cup ring goes out of service. After the time set in step 2 has elapsed, the cup ring goes back in service and is given one more chance to deliver a cup. If cup delivery is again unsuccessful, the ring goes out of service until the machine is serviced. A successful delivery on any cup ring will reset the failed attempts for that particular cup ring. If both cup rings perform three consecutive failed attempts (and the SureVendTM sensor is determined to be working), the entire machine goes in the "mug only" mode until the machine is serviced. If either cup ring performs three consecutive failed attempts with the other cup ring in anti-jackpot timer mode, the entire machine will be in "mug only" mode (assuming SureVend is working) until the preset time elapses (one more attempt will be made to deliver a cup) or the machine is serviced by a route operator.

NOTE

A setting of **00** will disable this feature. A setting of **99** will disable the ring until the next service call.

CONDITIONS:

If the cup sizes are the same, the machine alternates ring motor cycles until either a cup is detected or both rings reach two consecutive failed attempts. If the cup sizes are different, the selected ring is cycled up to two times before returning credit. If the customer selects a large size drink and that ring is out of service, the customer gets a small drink (if in service) and receives change.

VIEW SOFTWARE VERSION

"XXXXXX" represents the current software version number.

2. CONTINUE.

K (1)

$\stackrel{\scriptscriptstyle \mathrm{D}}{=}$ SET THE TIME OF DAY

1. Press $\begin{bmatrix} 8 \\ \\ \end{bmatrix}_{m}^{m} \begin{bmatrix} 6^{m} \end{bmatrix}_{m}^{m}$. The display shows *TIME HHMM*. "HH.MM" is the time of

day in 24-hour format.

2. Enter the current time using the number keys.

NOTE

9:00 am is entered with a leading zero, like this: 0900; 9:00 pm is entered as 2100.

3. CONTINUE.

SET THE DAY OF THE WEEK

1. Press $\begin{bmatrix} 8 \\ 0 \end{bmatrix}$, and press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$ un

until the display shows @ SMTWTFS.

The letter representing the currently set day of the week will be flashing.

- 2. Press $\begin{bmatrix} EDIT \\ O \end{bmatrix}$ until the correct day of the week is flashing.
- 3. CONTINUE.

SET MONTH, DATE, AND YEAR

- 1. Press, and press until the display shows MM/DD YY. "MM" is the month, "DD" is the date, YY is the year.
- Enter the current month, date, and year using the number keys. For example, press the following keys to enter February 15, 2002: 0, 2, 1, 5, 0, 2
- 3. Press $\begin{bmatrix} EDIT \\ \odot \end{bmatrix}$ to switch between MM/DD and DD/MM formats
- 4. CONTINUE.



Vending can be inhibited up to four times a day.

1. Press $\begin{bmatrix} 8 \\ 0 \end{bmatrix}$, then press



until the display shows INHIB ----.

2. See **TIME INTERVAL EDITING**, page 47 for an example of how to set up time-of-day inhibited vending.

SET TIME-OF-DAY FREE VENDING

1. Press



until the display shows FREEV ----.

2. See **TIME INTERVAL EDITING**, page 47 for an example of how to set up time-of-day free vending.



1. Press



until the display shows **DISCT** ----.

2. See **TIME INTERVAL EDITING**, page 47 for an example of how to set up time-of-day discount vending.



TIME INTERVAL EDITING

You can select up to four times of day for each special vending period.

NOTE

If two or more of these time periods overlap, the interval with the highest priority will overrule the other(s). This order of precedence is:

INHIBIT FREEVEND DISCOUNT

For example, if a DISCOUNT time period is scheduled for a certain area before the end of an INHIBIT time period, DIS-COUNT does not begin until the INHIBIT interval has ended for that area.

The time interval editing procedure is almost the same for the INHIBIT, FREEV-END, and DISCOUNT intervals. There is one difference for the DISCOUNT time interval, so we will use it in our example. Assume you just finished the SET TIME-OF-DAY DISCOUNT VENDING procedure. Step 1 picks up where you left off . . .

1. The display shows *DISCT* ----. Press the number of the time interval you

want to edit, or $\begin{bmatrix} EDIT \\ O \end{bmatrix}$ to edit time interval 1 (we'll use interval 1 for this example).

2. The display shows 1.DISCT ON or 1.DISCT OFF This display tells you

whether your time interval (represented by 1) is on or off. Press

| to

EDIT

change the condition of the time interval.

NOTE

If you turn an interval ON, it must be edited. You can edit a time interval now, then turn it OFF until another time.

3. Press . The display shows 1.DSCT X. "X" represents the discount

percentage for this period. Enter a discount percentage of 25 with the num-

ber keys. (Discount percentages of from 0 to 99 are permitted.) The machine will apply a 25% discount to each price, rounding up to the nearest nickel (or whatever is the smallest coin accepted by the coin mechanism).

4. Press . The display shows 1.5TRT X.XX.. X.XX is the currently set

start time. Enter a new start time (24-hour format) for this interval. To enter the time for 3:30 pm, enter 1530.

5.

Press | - The display shows 1.STOP XXX.. X.XX is the currently set

stop time. Enter a new stop time (24-hour format) for this interval. To enter the time for 6:00 pm, enter 1800. You have now established a 25% discount that starts at 3:30 pm and ends at 6:00 pm.

6. Press

• The display shows 1.@ -----. The dashes represent the

days that this time interval is active. Pressing number keys 1 through 7 switches the days on/off. For example, press "2", "4", and "6". The display now shows

1.@ - M-W-F. This discount interval is only active on Monday, Wednesday, and Fridav.

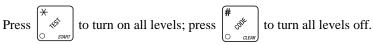
7.

Press \mathbf{P} . The display shows * -----. The dashes represent

the trays affected by this time interval. Press the appropriate letter key to enable a tray, press the key again to disable it. For example, pressing A, C, and E will cause the display to look like this: $\mathbf{A} - \mathbf{C} - \mathbf{E} - - - \mathbf{L}$, meaning that all A, C, and E selections are affected by this interval.



8.



Press . The display shows 1. MESG OFF or 1. MESG X. "OFF"

means there is no custom message selected, and "X" represents the custom message number set for this interval. Press the number key of the message

(1 through 8) you want displayed. To edit this message, press

and

EDIT

follow the procedure given in EDIT CUSTOM MESSAGE, page 51. Press 0 to turn the message OFF for this time interval.

CONTINUE. 9.

STANDBY MESSAGE The message that is displayed during normal vending periods when there are no out-of-service faults on the machine.

SELECT A STANDBY MESSAGE

then press.

1. Press



until the display shows STANDBY XX.

"XX" represents the current message number selected for the standby message. Two dashes mean that the factory-set message is selected.

- 2. To select a message, just press the corresponding number (1 through 8). To display the factory-set message, press 0.
- The selected message (except the factory-set message) can be edited. To do this, press and follow the procedure given in EDIT CUSTOM MES-SAGE, page 51.
- 4. CONTINUE.



SELECT AN OUT-OF-SERVICE MESSAGE

1. Press $\begin{bmatrix} 8 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$

until the display shows SERVICE XX.

"XX" represents the current message number selected to display when the machine is out-of-service. Two dashes mean that the factory-set message is selected.

- 2. To select a message, just press the corresponding number (1 through 8). To display the factory-set message, press 0.
- The selected message (except the factory-set message) can be edited. To do this, press and follow the procedure given in EDIT CUSTOM MES-SAGE, page 51.
- 4. CONTINUE.

SELECT A FREEVEND MESSAGE

1. Press $\begin{bmatrix} 8 \\ 0 \end{bmatrix}$, then press



until the display shows FREEV XX. "XX"

represents the current message number selected for the message that displays when the machine is in the freevend mode. Two dashes mean that the factory-set message is selected.

- 2. To select a message, just press the corresponding number (1 through 8). To display the factory-set message, press 0.
- The selected message (except the factory-set message) can be edited. To do this, press and follow the procedure given in EDIT CUSTOM MES-SAGE, page 51
- 4. CONTINUE.

EDIT CUSTOM MESSAGE until the display shows EDITMSG'S. Press , then press 1. Press the number of the message you want to edit. MESSAGEX is displayed (X represents the message number you pressed). NOTE Custom message 8 represents the INSERT ITUG message. The message text is displayed with the first character flash-2. EDIT Press ing. . The message scrolls across the dis-To view the message, press 15 3. play. To stop the scrolling, press EDIT When the character you want to change is flashing, either enter it directly, 4. $\langle \psi \rangle$ to step through the character set until the desired Ś and or use Use the arrow keys to highlight different characcharacter is displayed. ters. See the section on the next page for an explanation of special keys and the character set. SHORTCUT Instead of stepping through the whole character set to enter a letter that is not on your keypad, enter one close to the one you want, then step to it. Example: If you want to enter an L, first press six times. Your L should now be displayed. then press

THE END OF MESSAGE CHARACTER

This is the most important character in your message, because it tells the machine when the message is ended. If you don't use this character, your message will be followed by a bunch of zeros. This character can be selected either from the character set or by a direct key entry (see **ENTERING YOUR MESSAGE**, page 52).



Hot Drink Center Programming Guide ENTERING YOUR MESSAGE

Most of the keys on the control panel have a special purpose to help you create and edit your messages:



Inserts an **R** at the flashing character.



Inserts an **S** at the flashing character.



Inserts a **T** at the flashing character.



OFREEVEND

Deletes the current character and leaves the space.

Deletes the current character and

Inserts a space at the flashing

character.

closes up the space.



Repeats the letter to the left of the flashing character.



Enters the special "end of message" character, which denotes the end of the message.



"Pages" through the message, ten characters (one screen) at a time.



Steps forward and backward through the message, one character at a time.



Steps forward and backward through the character list, one character at a time.

0	A	J	Ü	(
1	В	L	V)	
2	С	М	W	#	
3	D	Ν	Х	Р	
4	Ε	0	Y	+	
5	F	Р	Z	-	>
6	G	Q	(SPACE)	/	?
7	Н	R	_	•	@
8	Ι	S	\$	<	0
9	J	Т	6	=	器

VIEW WATER TANK TEMPERATURE

- Press ³/_○ . The display shows XXX °F. "XXX" is the current water tank temperature. "° F" means that the temperature is displayed in degrees Fahrenheit (may be shown in degrees Celsius, depending upon your choice. See VIEW OR SET THE HOT WATER TANK TEMPERATURE, page 41). A decimal point shown in the display indicates that the tank heater is operating.
- 2. CONTINUE.

VIEW MACHINE CONFIGURATION SETTING

1. Press $\begin{bmatrix} 3 \\ 0 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$ until the display shows D- J- PORS. P,

Q, **R**, and **S** represent settings specific to your machine. See **SET THE MACHINE CONFIGURATION CODE**, page 21 for an explanation of this display.

2. Press . The display shows **O**. **ABCDEFGH**. This shows the active

selections for the regular size drink (\mathcal{G}).

NOTE

Press

EDIT

to display the remaining selections: 3 X - - - 2 - - -

NOTE

If you have only one cup size in your machine, you will not see the next display.

3. Press . The display shows 1. ABCDEFGH. This shows the active

selections for the large size drink (1).

NOTE

Press

to display the remaining selections: 1 X - - - 2 - - -

4. CONTINUE.

VIEW CUP SIZES ASSIGNED TO SELECTIONS

until the display shows \mathcal{O} . -- \mathcal{C} --- \mathcal{G} -.

This example shows that regular size cups are assigned to selections C and G.

NOTE

If you have only one cup size in your machine, you will not see the next display.

2. Press . The display shows 1. ABC- - FGH. This example shows that

large size cups are assigned to selections A thru C and F thru H.

3. CONTINUE.

PAYOUT COINS

- 1. Press ⁹ [★] . If a dumb mech was selected, the display shows ND0=123; if an MDB mech was selected the display shows PRY 123.
- 2. Press $\begin{bmatrix} 1 & & \\ & &$

coin from tube 1. Press $\begin{bmatrix} 2 & e^{iA} \\ e^{iA} & e^{iA} \end{bmatrix}$. A dumb mech pays out one D ime; an

MDB mech pays a coin from tube 2. Press $\begin{bmatrix} 3 \\ 0 \\ -+ \end{bmatrix}$. A dumb mech pays out one *G*uarter; an MDB mech pays a coin from tube 3.

- 3. To continuously pay out coins, hold down the appropriate key.
- 4. CONTINUE.

SET PRICES

The display shows ** 2.50 .25. This display shows the Press 1.

maximum and minimum prices set in the machine. In this example, the maximum price is \$2.50 and the minimum is \$0.25.

Enter prices as using one of the following methods: 2.

SET ENTIRE MACHINE TO ONE PRICE ...

The display shows ** XXX. Enter a price using the a. Press EDIT

number keys. All selections in the machine are now set to this price.

SET THE PRICE OF AN INDIVIDUAL SELECTION:

- a. Press the number of the selection to be priced. (Example: 1A.) The display shows 19 XXX. Enter a price using the number keys. The selection is now priced.
- b. Press another letter key, or $\left| \bigcup_{\circ} \mathbf{\Psi} \right|$ to price another selection.

3. CONTINUE.



VIEW NONRESETTABLE SALES AND VEND DATA

. The display shows MR\$ XX.XX. "XX.XX" is a dollar and 1. Press

cents figure showing the total of all sales in the machine. This is a running total, and is not resettable.

. The display shows $N\!R\,X$. "X" is the total number of vends 2. Press

made by the machine. This is a running total, and is not resettable.

CONTINUE. 3.

VIEW DATA THREE DIFFERENT WAYS

Paid sales and vends can be viewed three different ways: By whole machine, by selection, and by drink size within the selection. The first screen of the data item shows its machine total.

To view the data by selection, press the letter of the selection you want to

and

to see data for all the active

selections.

see. You can then press

To view the data by drink size:
1.Press 0 for regular size drinks or 1 for large size drinks.
2.Press the letter of the selection you want to see.

FOR EXAMPLE:

To view the data for a large A selection, press 1A. The data will be displayed.

3. You can then press



to see data for all the active selec-

tions of that size.



VIEW TOTAL PAID SALES

1. Press $\begin{bmatrix} 5 \\ \sqrt{N^{10}} \\ \sqrt{N^{10}} \end{bmatrix}$, then press $\begin{bmatrix} 1 \\ \sqrt{N^{10}} \end{bmatrix}$ until the display shows ****\$** XX.XX.

"XX.XX" is a dollar and cents figure showing the total of all PAID sales in the machine (as opposed to unpaid sales like winner and free vends). This is the total since the last time it was cleared.

- 2. If desired, view this data by individual selection or drink size.
- 3. CONTINUE.

VIEW TOTAL PAID SALES BY PRICE LINE

- 1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ until the display shows ****\$** XX.XX.
- 2. Press $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$. The display shows .30'3430.50. This is an example of a

price line for items priced at 0.30. The amount following the apostrophe ('), is the total dollar amount of the sales for this amount. In this example, there was total sales of 3,430.50 for the 0.30 item.

- 3. Press repeatedly to view all price lines.
- 4. CONTINUE.

VIEW TOTAL PAID VENDS

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$ until the difference of the second secon

until the display shows ****** XX. "XX" is

the total number of paid vends for the entire machine.

- 2. If desired, view this data by individual selection or drink size.
- 3. CONTINUE.

VIEW TOTAL PAID VENDS BY PRICE LINE

- 1. Press $\begin{bmatrix} 5 & 0 \\ 0 & 0 \end{bmatrix}$, then press $\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$ until the display shows ** XX.
- 2. Press $\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$. The display shows .30°11435. This is an example of a price

line for items priced at 0.30. The amount following the apostrophe ('), is the total number of sales for this amount. In this example, there was a total of 11,435 sales of the 0.30 item.

- 3. Press repeatedly to view all price lines.
- 4. CONTINUE.

CLEAR ALL RESETTABLE DATA

- 1. Press [3 represented by the display shows MR\$ XX.XX. This is a running total, and is not resettable.
- 2. Press and hold $\begin{bmatrix} \# & & \\$

momentarily, and then changes to FINISHED. All data is cleared.

3. CONTINUE.

CLEAR PAID SALES DATA ONLY

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press until the display shows **** S XX.XX**.

"XX.XX" is a dollar and cents figure showing the total of all PAID sales in the machine (as opposed to unpaid sales like winner and free vends). This is the total since the last time it was cleared.

momentarily, and then changes to FINISHED. All paid sales data is cleared; other data is not cleared.

3. CONTINUE.

VIEW AMOUNT IN COIN BOX (NOT SHOWN IF ZERO)

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, 1



until the display shows CBX XX.XX.

"XX.XX" is the dollar and cents amount in the coin box.

2. CONTINUE.

VIEW AMOUNT IN VALIDATOR (NOT SHOWN IF ZERO) until the display shows DBV 1. XX.XX. Press , then press "XX.XX" is the dollar amount in the bill stacker. to show the quantities of bills in the stacker. For example, the 2. Press EDIT display shows **\$C120**, meaning that there are 20 dollar bills in the bill again to show the quantities of other bills, such as EDIT stacker. Press \$5s, \$10s, or \$20s. 3. CONTINUE.

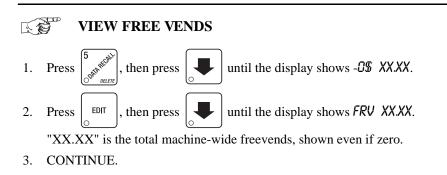
VIEW FREEVEND SALES BY TIME INTERVAL (NOT SHOWN IF ZERO) Press 5 (100 metric), then press (100 metric), then press (100 metric), then press (100 metric), then press (100 metric)). This is

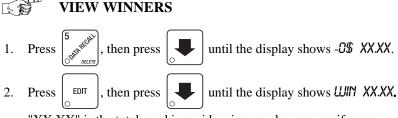
the total sales for freevend interval 1, shown even if zero.

- 3. Press to view intervals 2 through 4.
- 4. CONTINUE.

VIEW DISCOUNT SALES BY TIME INTERVAL (NOT SHOWN IF ZERO)

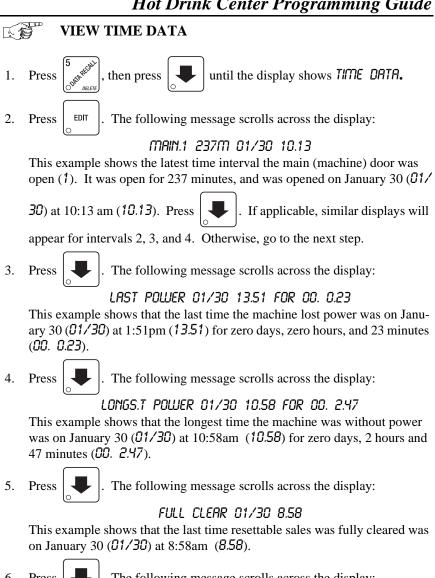
- 1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \end{bmatrix}$ until the display shows **** S XX.XX**.
- 2. Press EDIT . The display shows 1.DSC .DD. This is the total sales for discount interval 1.
- 3. Press \bigcirc to view intervals 2 through 4.
- 4. CONTINUE.





"XX.XX" is the total machine-wide winners, shown even if zero.

3. CONTINUE.



6. Press

. The following message scrolls across the display:

TIME SET 01/30 9.15

This example shows that the last time the time or date was set was on January 30 (01/30) at 9:15 am (9.15).

7. Press

The following message scrolls across the display:

PRICE SET 01/30 9.42

This example shows that the last time prices were set was on January 30 (01/30) at 9:42 am (9.42).

8. CONTINUE.

NOTE

Refer to **VIEW DATA THREE DIFFERENT WAYS**, page 56, to view the date and time of the last vend of that selection.



VIEW TOTAL UNPAID SALES (NOT SHOWN IF ZERO)

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \end{bmatrix}$ until the displa

until the display shows _0\$ XX.XX.

"XX.XX" is the total unpaid sales (free vends, winner vends, 100% discounts, zero price vends) for the entire machine.

- 2. If desired, view this data by tray and individual selection.
- 3. CONTINUE.

VIEW TOTAL UNPAID VENDS

1. Press $\begin{bmatrix} 5 & \\ & & \\$



until the display shows $_G XX$. "XX" is

the total number of unpaid vends for the entire machine.

- 2. If desired, view this data by tray and individual selection.
- 3. CONTINUE.

VIEW NUMBER OF TEST VENDS (NOT SHOWN IF ZERO)

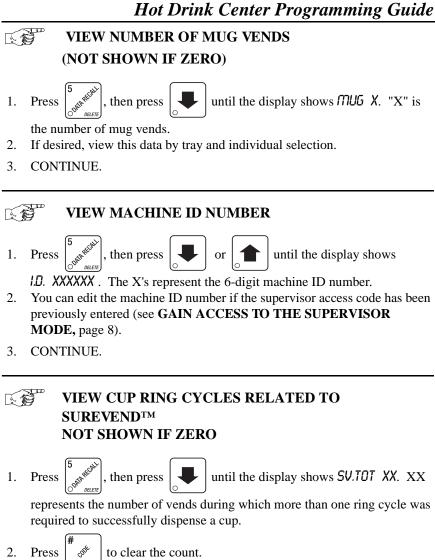
1. Press



until the display shows TST X. "X" is the

number of test vends.

- 2. If desired, view this data by tray and individual selection.
- 3. CONTINUE.



CONTINUE. 3.

VIEW NUMBER OF TIMES NO CUP WAS DETECTED AFTER A CUP RING CYCLED NOT SHOWN IF ZERO

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \end{bmatrix}$ until the display shows *SVFL1 XX*. XX

represents the number of times a cup was not detected after ring 1 cycled. Check the cup ring adjustment (see the *Operator's Guide*), or the cup stack for damage if the count is excessive.

- 2. Press $\begin{pmatrix} \# \\ & & \\ &$
 - Press until the display shows *SV.FL2 XX*. XX represents the num-

ber of times a cup was not detected after ring 2 cycled. Check the cup ring adjustment (see the *Operator's Guide*), or the cup stack for damage if the count is excessive.

4. CONTINUE.

3.

Image: Wiew Home Switch Usage Related to SUREVEND™

NOT SHOWN IF ZERO

1. Press $\begin{bmatrix} 5 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 4 \\ 0 \end{bmatrix}$

until the display shows UU0.5V XX. XX

represents the number of times home switches were used due to *OPT'N SURE.V* selected but not working.

2. CONTINUE.



TEST VEND SELECTIONS AND VERIFY CREDIT ADDED

1. Press $\left| \begin{array}{c} \star \\ \circ \\ \circ \\ \end{array} \right|$. The display shows *TEST .00*. You may now test vend selec-

tions. If you insert money into the machine, the zeros in the display will be replaced with the amount of the credit. After the item vends, your money will be returned.

NOTES

SureVendTM is not operational during a test vend.

You may make one more test vend if you close the door while still in TEST VEND mode.

2. CONTINUE.

K 19

TEST THE DISPLAY

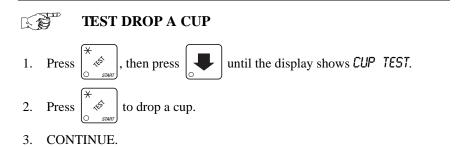
🔹 , then press 🛛 until the display shows DSPLY TEST. The 1. Press

"DRINK BEING SERVED" lamp is lighted (if so equipped), and remains lighted until you leave this function.

to light all display segments; press 2. Press

to turn them off.

- Pressing a NUMBER KEY on the control panel causes all segments to dis-3. play that character.
- CONTINUE. 4.



TEST THE WHIPPER(S)

1. Press



ُ 🔅 , then press 📕 until the display shows الله TEST.

- 2. Press the number key that corresponds to the whipper you want to test. It will run for one cycle.
- 3. CONTINUE.

TEST THE GRINDER(S)

Press 1.

🔹 , then press 🖣

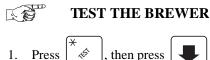


until the display shows *GRIND* TEST.

- 2. Press the number key that corresponds to the grinder you want to test. It will run for one cycle.
- 3. CONTINUE.

Hot Drink Center Programming Guide TEST THE AUTOMATIC DELIVERY DOOR $\left| \bigotimes_{\text{sum}} \right|$, then press $\left| \bigcup_{\text{o}} \right|$ until the display shows DOOR TEST. Press 1. . The automatic delivery door operates. 2. Press 3. CONTINUE. TEST THE AIR COMPRESSOR , then press \mathbf{I} until the display shows \mathbf{A} TEST. 1. Press to run the air compressor. 2. Press

3. CONTINUE.



 $\overset{*}{\circ} \overset{*}{\circ}_{sum}$, then press until the display shows *BREW* TEST.

NOTE

Keep away from the brewer mechanism while it is operating. Coming into contact with moving parts could injure you.

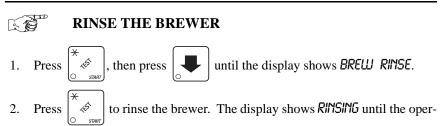
- Press to test each brewer position: 2. BREW'R BREW=The brewer is in the BREW POSITION. BREW'R FLIP=The brewer is in the FLIP position. **BREW'R** HOME=The brewer is in the HOME position.
- CONTINUE. 3.

RINSE THE MIXING BOWLS

the operation is complete.

3. CONTINUE.

<u>s</u>



ation is complete.

3. CONTINUE.

TEST SWITCHES OR SENSORS

until the display shows IN.MKPHL12.

2. Actuate each switch or sensor to test its function:

M = mug/cup	sensor (if	equipped)
-------------	------------	-----------

- P = waste pail switch
- L = low water tank level switch
- 2 = ring 2 empty

- K = freevend keyswitch
- H = high water tank level switch
- $1 = ring \ 1 \ cup \ sensor \ switch$

As you actuate each input, the display element representing that switch blinks on. Releasing the switch causes that element to blink off again.

3. CONTINUE.

VIEW SUREVEND™ LAST RECORDED CALIBRATION VALUE

1. Press $\left[\overset{\star}{\underset{sum}{s}}\right]$ SureVendTMuntil the display shows *CALLST XXX*. XXX can

be any number from 0 to 255, and represents the most recent value read from the sensor. The lower the number the greater the sensor blockage. A number of 255 means that there is a fatal problem with the SureVendTM interface board. Ensure the SureVendTM interface PCB is properly connected to the main controller PCB.

2. CONTINUE.



VIEW SUREVEND[™] AVERAGE CALIBRATION VALUE

1. Press $\begin{pmatrix} \star \\ & \checkmark \\ & & \\ &$

, then press **4** until the display shows **CALAVE XXX**.

XXX represents the average sensor calibration value (should be between 50 and 255 for proper sensor operation - i.e. 51 through 254). Although this number could go as low as 20, the SureVendTM system will be inoperative in this condition.

2. CONTINUE.

CLEAR TANK ERRORS AND FILL THE TANK

1. Press

 $\langle s_{starr} \rangle$, then press | = | until the display shows TANK FILL.

sary. If it is taking a long time to fill the tank AND THERE ARE NO LEAKS, you may see TANK ERR in the diagnostic list again. Just press

 $\ast \Rightarrow \\ \circ \Rightarrow \\ \circ$

restriction in the water inlet line or a clogged water filter.

3. CONTINUE.

VIEW DIAGNOSTIC MESSAGES

1. Press $\left[\begin{array}{c} 0 \\ 0 \end{array} \right]^{0}$. The display shows any of the following diagnostic mes-

sages, depending upon any fault(s) present:

NO ERRORS	None of the following errors are detected:
Keypad Xy	Key(s) x, y stuck.
ROM ERROR	Error in the programming EPROM. Machine will not operate.
RAM ERROR	RAM is not initialized or is not compatible with the currently
	loaded software. If this message appears, initialize your RAM
	by performing the following procedure:
NOTE:	Initializing RAM will erase all your data and
	drink settings. Be sure you have written this information down before continuing.
	(#
	Press AND HOLD $\underbrace{\#}_{\bigcirc \ \alpha \in M}$ until two beeps are heard, and the display shows $E[N]SHED$
	display shows FINISHED.
Keyswitch	The keyswitch input is active and configured as an inhibit.
D+J+ШХУZ	Configuration error; displays the machine configuration
	screen. NOTE: this is the actual config screen. You may enter
	the correct config number directly on this screen without fur- ther action.
tank err	Tank failed to fill or refill.
RING 1. 2	
MTR 1A1B2X	The cup ring is jammed.
NO CUPS 1, 2	Cup turrets are jammed Out of cups.
BREW JAM	
WASTE PAIL	The brewer is jammed.
LOW WATER	The waste pail is full.
	The water level in the tank is low.
COLD WATER NO SENSOR	Water in the tank is too cold to vend.
	Temperature sensor failed or missing.
NO FLOAT	Float sensor failed or missing.
	5Whipper motor failure (motor 1, 2, 3, 4, 5).
DOOR JAM	The automatic delivery door is jammed.
NO MECH	Coin mech not detected - machine will not operate if config- ured for coin mech.
тесн сотт	
MECH.SENSOR	Incomplete coin mech communications — check harness.
HICLAJCHOUK	Coin mech reporting a bad tube sensor — replace mech.

	6 0
<i>тесн кот</i>	Replace the coin mechanism.
MECH.ACCEPT	Coin mechanism acceptor section is unplugged from the main body of the coin mech. Connect the cable and cycle machine power OFF and then ON.
тесн јат	One or more coin tubes are jammed. Pay a coin from each tube until the jam is cleared.
DEBIT CARD	Card reader reporting error — machine will not operate if configured for DEBIT ONLY.
CHECK DBV	Bill validator reporting error — machine will not operate. Empty stacker, clear jams, etc.
DBV COMM	Incomplete bill validator communications — check harness.
DBV MOTOR	One of the motors has failed. The unit will disable itself until the error is corrected. Check for bill stuck in the acceptance path. If no bill is present, replace the validator. Cycle machine power OFF and then ON.
DBV SENSOR	One of the sensors in the bill validator has failed. The unit will disable itself until the error is corrected. Check for bill stuck in the acceptance path. If no bill is present, replace the validator. Cycle machine power OFF and then ON.
DBV JAM	A bill is jammed in the acceptance path. The unit will disable itself until the error is corrected. Remove bill stuck in the acceptance path. Cycle machine power OFF and then ON.
DBV STACKR	The stacker is open or removed. The unit will disable itself until the error is corrected. Install the stacker correctly.
CHK PRICE	Price error detected and changed to maximum - check prices.
None Ready	all selections are reported out of service.
SV.ERR CUP 1	Cup ring 1 is out of service due to a SureVend TM error.
SV.ERR CUP 2	Cup ring 2 is out of service due to a SureVend TM error.
SV.ERR PCB	SureVend TM is ON but not working. The last calibration sample was 255. Check that the SureVend TM PCB is present at J34.
SV.ERR SNSR	Sure Vend TM is ON but not working. The last calibration sample was \leq 50. Check for a blocked sensor or disconnected harness.
AJP.TMR1 XX	Sure Vend TM is active and ring 1 anti-jackpot timer is ON. XX is a value between 1 and 99 in minutes.
AJP.TMR2 XX	SureVend TM is active and ring 2 anti-jackpot timer is ON. XX is a value between 1 and 99 in minutes, and represents the amount of time left on the anti-jackpot timer for this cup ring.

DOWNLOAD DATA TO A PDCD

- 1. Connect your portable data collection device (PDCD) in accordance with its operating instructions.
- 2. Press $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$. Data is downloaded into your PDCD.

NOTE

Depending upon the setting selected in SET DEX OPTIONS, page 11, data may be cleared after the download is complete.

3. CONTINUE.

SET FREEVEND OPTIONS

1. Press $\begin{bmatrix} 2 \\ 0 \end{bmatrix}$, then press $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ until one of the following is displayed:

FREE OFF - Normal vending mode. No items are on freevend. (A closure on the optional keyswitch input causes the machine to go out of service.)

- OR -

FREE ON - All items are on freevend. The credit display shows NO MONEY REQUIRED

(A closure on the optional keyswitch causes the machine to go out of service.)

- OR -

FREE *W/KEY* - All items are freevended while there is a closure on the optional keyswitch input. Normal cash sales are supported when the optional keyswitch input is open.

- OR -

FREE ONCE - A closure on the optional keyswitch input causes only the next item to be freevended. Coin mechanism errors are ignored. this state is designed for card or token systems where one item is vended per token. Normal cash sales are also supported.

EDIT 2. Press

until the option you want is displayed.

If you selected FREE W/KEY, press . The display shows *ABC.... 3.

This display represents the selections which may get free vends. Enable the selections by pressing the appropriate letter key.

4. CONTINUE.

WARRANTY STATEMENT

LIMITED WARRANTY. Subject to the limitations specified herein, this merchandiser is warranted for one (1) year against defective parts and workmanship. Any part or parts which are proven to be defective within one (1) year of the date of shipment will be repaired or replaced free of charge when the defective part is returned, with transportation charges prepaid, to the destination designated by CRANE MERCHANDISING SYSTEMS Warranty Department.

Refrigeration system's are warranted for (2) years against defective parts and workmanship. Any part or parts of the refrigeration system which are proven to be defective within (2) years of the date of shipment of the merchandiser will be repaired or replaced free of charge when the defective part(s) is returned, with transportation charges prepaid, to the destination designated by the Crane Merchandising Systems Warranty Department. Any part or parts that are proven to be free from defect will be assessed a diagnostic charge. This diagnostic charge will be added to the price of any replacement unit which might have been sent as an advanced replacement, as well as any shipping and handling fees that may have accrued as a result of shipping the original refrigeration unit. The charges will be the sole responsibility of the original purchaser.

This warranty does not include any cost of service rendered or repairs made by customer or it's agents on Merchandiser, or parts, unless authorization to incur such expense has been given in writing by CRANE MERCHANDISING SYS-TEMS prior to incurring such expense. This warranty does not cover labor and service charges performed by CRANE MERCHANDISING SYSTEMS service technicians. Customer shall pay all labor costs with respect to warranty repairs.

This warranty does not apply to A) electrical components, wiring, or circuits and/or for all mechanical parts or assemblies damaged as a result of operating the Merchandiser at other than the design voltage and frequency specified on the Electrical Rating Tag, or B) in event of vandalism, fire or negligence, or C) incandescent lamps, neon lamps, fluorescent lamps, ballasts, starters or other expendable items or D) when other manufactured components are installed in Crane Merchandisers.

Replacement parts sold by CRANE MERCHANDISING SYSTEMS as After Market shall be covered for three months from the date shown on the parts invoice. Purchaser must obtain prior RETURN AUTHORIZATION for return of all parts, following guidelines given by Crane Merchandising Systems

New, unused parts purchased as AFTER MARKET, can be returned within 30 days from date of parts invoice, with prior authorization from CRANE MERCHANDISING SYSTEMS.

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