PROGRAMMING MANUAL

GVC2 CONTROLLER SOFTWARE
(Revision 7370 or later)

This manual contains only the programming instructions for the GVC2 Controller used on the vending machines listed below. Please refer to your service manual for other information.

VENDOR	MODEL
SM5700	3512, 3512A
HR23	3526, 3526A
HR32	3510, 3510A
HR40	3509, 3509A
RRF-3W	3523, 3523A
RRF-4W	3524, 3524A
RRF-5W	3525, 3525A
SC100	3515, 3515A
VT3000	3520, 3520A
ST3000	3521, 3521A
VT5000	3517, 3517A 3518, 3518A
ST5000	3519, 3519A

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SERVICE MODE

Use **Service Mode** to program and service the machine. Use the keypad as an input device. Watch the display for information while in Service Mode.

SERVICE MODE BUTTON

To enter **Service Mode**, press the **Service Mode Button** located on the top or upper right corner of the controller cover. See Figure 1. To exit Service Mode, press the Service Mode Button.

> **NOTES**
> *If credit exists when **Service Mode** is entered, it will be restored when the machine returns to **Sales Mode**.*
>
> *If no key is pressed for approximately 1 minute while in **Service Mode**, the controller will automatically return to **Sales Mode**.*
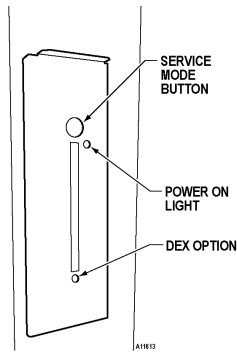
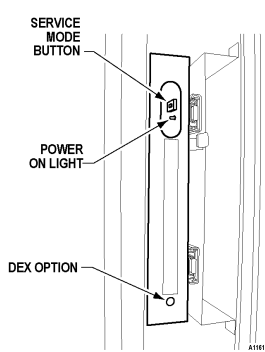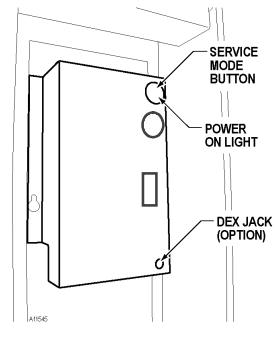| **Figure 1. Controller – Cabinet Mounted**	**Figure 2. Controller – Cabinet Mounted**	**Figure 2.A Controller— Inside Door Mounted**

KEYPAD

Use the buttons on the keypad as directed in the step-by-step instructions in this manual in programming the vendor.

DISPLAY
Check the display after pressing the **Service Mode Button** and/or **Keypad Buttons** to make sure that the program is responding correctly.

Buttons 0-9 are used to move between the various modes, menus and sub-menus; while the # button is used to enter a menu, confirm or save a setting. See Figure 3
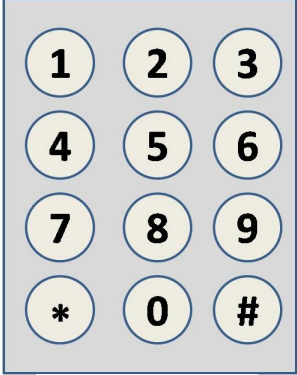
Figure 3: Keypad

1 TUBE FILL/ DISPENSE COINS

Tube Fill counts coins as they are deposited and Shows the dollar amount.

TUBE FILL

	STEP	DISPLAY
1.	Press Service Mode Button ■	Motor Count 60
2.	Press 1 and begin depositing coins	At least 15 of each denomination
3.	Press * 2 times to exit	(Sales Mode)

TUBE DISPENSE

Tube Dispense Pays out coins from the coin mech coin tubes. This mode will also display the current quantity of coins in the

	STEP	DISPLAY
1.	Press 1 to dispense dollar coin	$1.00/coins
2.	Press 2 to dispense quarters	0.25/coins
3.	Press 3 to dispense dimes	0.10/coins
4.	Press 4 to dispense nickels	0.05/coins
5.	Press * 2 times to exit	(Sales Mode)

Note: For dispensing more than a 4 denomination coin mech. use keys greater in the same sequence as shown above.

2 MOTOR COUNT

Displays the total count of working motors.

	STEP	DISPLAY
1.	Press Service Mode Button ■	Motors (- -)
2.	Press 2 then wait.	Motors (- -)
3.	Press * to exit.	(Sales Mode)

3 OPTIONS

This menu allows access to the following features:

- Force Vend
- Bill Escrow
- Multi Vend
- Free Vend
- Fast Change
- Optics
- Point Of Sale Message
- Temperature
- Keypad Backlight
- Drop Sensor Sensitivity

3.1 FORCE VEND

This option will force the customer to complete a purchase once they have deposited money of any form.

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ① to view current setting	Force Vend OFF
4.	Press ① to toggle ON or OFF	Force Vend ON
5.	Press # to save setting	Force Vend ON
6.	Press ✱ 3 times to exit	(Sales Mode)

Note: If a vend is attempted on a configured selection and the motor fails during this vend, the customer will be allowed to escrow the credit, regardless of the force vend status.

3.2 BILL ESCROW

This option allows the last bill accepted to be returned, provided the bill acceptor is capable of such a feature.

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ②	Bill Escrow ON
4.	Press ② to toggle ON or OFF	Bill Escrow OFF
5.	Press # to save setting	Bill Escrow OFF
6.	Press ✱ 3 times to exit.	(Sales Mode)

3.3 MULTI VEND

This option allows the customer to purchase more than one product if enough credit has been deposited.

When this option is active, any credit remaining after a vend attempt is *not* automatically returned. At this point, the customer has the option of:

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ③	Multivend OFF
4.	Press ③ to toggle ON or OFF	Multivend ON
5.	Press # to save setting.	Multivend ON
6.	Press ✳ 3 times to exit.	(Sales Mode)

- Making another selection if there's enough credit.
- Depositing more money (cash credit from a changer or bill acceptor); or
- Press coin return to receive remaining credit.

Note: After 5 minutes any credit that is left on the display will disappear.

*Note: For card reader sessions, the **Multi-vend** feature will function only if the card reader supports multiple vend capability.*

3.4 FREE VEND

This option allows you to set the <u>**whole machine**</u> to Free vend.

WITH **FREE VEND** ENABLED, EVERY PRODUCT WILL BE VENDED AT NO COST, NO MONEY IS ACCEPTED BY THE MACHINE, THE MESSAGE "**FREE ON US**" WILL BE ON THE DISPLAY.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ④	Free Vend OFF
4.	Press ④ to toggle ON or OFF	Free Vend ON
5.	Press # to save setting.	Free Vend ON
6.	Press ✳ 3 times to exit	(Sales Mode)

3.5 FAST CHANGE

Allows the vending machine to give change immediately after the customers makes a selection. If **Fast Change** is ON, it will override the Multi Vend feature.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ⑤	Fast Change ON
4.	Press ⑤ to toggle ON or OFF	Fast Change OFF
5.	Press # to save setting.	Fast Change OFF
6.	Press ✳ 3 times to exit	(Sales Mode)

NOTE: If "OPTICS" is turned ON the amount of the product will display until a product drops.

3.6 OPTICAL VEND

Optical Sensor Control Options - This submenu provides the operator with options for designating product items or rows that will be monitored for product delivery by an optical sensor. Default is ALL selections "ON" unless changed.

3.6.3 Optics All

STEP		DISPLAY
1.	Press Service Mode Button ⏹	Motors (- -)
2.	Press ③	Options
3.	Press ⑥	Optical Vend
4.	Press ③ to toggle ALL ON/OFF	ALL ON/OFF
5.	Press # to save	ALL OFF
6.	Press ✱ 3 times to exit	Sales Mode

3.6.2 Optics by Row

STEP		DISPLAY
1.	Press Service Mode Button ⏹	Motors (- -)
2.	Press ③	Options
3.	Press ⑥	Optical Vend
4.	Press ② to enter Row	Row 01 ON
5.	Press ① to toggle ON/OFF	Row 01 OFF
6.	Press # to save	Row 01 OFF
7.	Press ✱ to enter another Row or 3 times to exit	Sales Mode

3.6.1 Optics by Item

STEP		DISPLAY
1.	Press Service Mode Button ⏹	Motors (- -)
2.	Press ③	Options
3.	Press ⑥	Optical Vend
4.	Press ① to enter Item	Item 010 ON
5.	Press ① to toggle ON/OFF	Item 010 OFF
6.	Press # to save	Item 010 OFF
7.	Press ✱ to enter another item or 3 times to exit	Sales Mode

The controller must be in **Sales Mode**. If the accumulated credit is equal to or larger than the selection price when a selection is entered, the motor corresponding to that selection will be turned on. Selections that are designated as **Optical** will have an associated vend operation that differs from the normal vend operation.

For 5 milliseconds at the start of a vend, the **iVend**™ optical sensor will be checked for blockage.

If blocked - the normal home-switch-vend cycle will be used and the optical sensors will be ignored. Both the vend motor and a 10 second vend timeout timer will be started.

- The selection motor rotates to the home-switch position.
- If there is a home-switch signal, the vend is considered successful.
- If after 10 seconds there is no home-switch signal, the vend failed. The vend motor is shut down and *MAKE ANOTHER SELECTION* is displayed. The customer can then press selection buttons to activate this or another motor, or press the Coin Return.

   NOTE: Force Vend is overridden under this vend cycle.

If not blocked - the iVend™ Sensor System is used. The vend motor and a 10 second vend timeout timer are started.

- The selection motor rotates to the home-switch position.
- If a product is detected during this time period, the vend is considered successful.
- If after reaching the home-switch position, a product has not been detected, the vend motor will pause for 1 second while the controller continues to monitor the optical sensor for product delivery.
- If a product is detected during this pause, the vend is considered successful.
- If a product is not detected, the controller initiates a second vend cycle and a 9 second timer while continuing to monitor the optical sensor.
   - o If a product is detected during this second cycle, the motor will be stopped immediately. The vend is considered successful. The 2nd Vend Count is increased by 1.
   - o If a product is not detected before the motor reaches the home-switch position, or if a 9 second timer runs out, the vend has failed or the selection is sold out. Such a state will trigger the display message, *MAKE ANOTHER SELECTION*, and the amount of credit is displayed. The customer can press selection buttons to activate this or another motor <u>or</u> press the Coin Return.

3.7 POINT OF SALE MESSAGE (POS)

Turn OFF (or ON) the default scrolling display message.

NOTE: This does not affect the programmed POS message

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ⑦	POS Message ON
4.	Press ⑦ to toggle ON or OFF.	POS Message OFF
5.	Press # to save setting.	POS Message OFF
6.	Press ✱ 3 times to exit.	(Sales Mode)

3.8 SETPOINT

The following are the factory default SET POINT temperature settings for each machine type:

- Frozen -10F
- Slackened 15F
- Cold 36F
- Chilled 62F
- Snack N/A

- Dual Zone:
- Bottom Zone 36F (not changeable)
- Top Zone 62F (not changeable)
- Delta 6F (not changeable)

These temperatures may be adjusted, however it is *not* recommended. The temperatures have been set according to NAMA specifications for optimal product safety. **Before making any adjustment see Health Safety section.**

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ⑧ to view/change machine temperature	Setpoint 36F
4.	Press # to save	Setpoint 36F
5.	Press ✳ 2 times to exit	Sales Mode

3.9 KEYPAD BACKLIGHT

This menu controls the brightness level of the keypad backlight. (Default is 3)

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ⑨ to view setting.	KB Backlight
4.	Press ⑨ repeatedly to change setting. *Note:0=Off, 1=Low, 2=Med, 3 =High, 4=Max*	KB Backlight 3
5.	Press # to save	KB Backlight 3
6.	Press ✳ 3 times to exit.	(Sales Mode)

3.0 DROP SENSOR SENSITIVITY
FOR CAN/BOTTLE SELECTIONS ONLY.

This menu allows you to adjust the Drop Sensor sensitivity.
1 is most sensitive;
9 is the least sensitive.
Default is 3.

When Can/Bottle Mode is ON, the Drop Sensor is enabled for vending bottles or cans.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ③	Options
3.	Press ⓪	Drop Sensor 3
4.	Press ⓪ to toggle for settings 1-10.	Drop Sensor 4
5.	Press # to save.	Drop Sensor 4
6.	Press ✳ 3 times to exit.	(Sales Mode)

4 CONFIGURATION

This menu allows access to the following features.

- Item
- Row
- All
- Language
- Auto-reinstate

- Space to Sales (STS)
- Custom STS
- Date/ Time
- Health Safety
- Advanced Configuration

This menu provides access to sub-menus that set Can, Bottle or Snack type of product to each item, entire row or entire machine.

4.1 ALL

To set **ENTIRE MACHINE** to Snack, Can, or Bottle

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ③	All Items Snack
4.	Press ③ to toggle Snack, Can, Bottle.	All Items Can
5.	Press # to save	All Items Can
6.	Press ✱ 3 times to exit.	(Sales Mode)

4.2 ROW

Provides the option of designating rows that will contain cans, bottles or snack.

Note: *For selections designated as either cans or bottles the vend motor will run continuously during the vend cycle until a drop sensor signals the controller, or the maximum vend time of 9 seconds concludes.*

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ②	Row - -
4.	Enter row number on keypad.	Row 01 Snack
5.	Press ② again to toggle from Can, Bottle or Snack	Row 01 Can Row 01 Bottle
6.	Press # to save.	
7.	Press ✱ 3 times to exit.	(Sales Mode)

4.3 ITEM

Before setting this option a row or the whole machine must be set to ***Can/bottle***. Each item in that row or whole machine may be set CAN or BOTTLE. When Can/Bottle Mode is ON, the Drop Sensor is enabled for vending bottles or cans.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ①	Item
4.	Enter selection number.	Item 010 bottle
5.	Press ① to toggle Can/Bottle.	Item 010 can
6.	Press # to save.	Item 010 can
7.	Press ✱ 3 times to exit.	(Sales Mode)

4.4 LANGUAGE

Language Message - This menu function allows the operator to choose a specific language in which sales mode messages will be displayed. The following languages are available:

- English
- Spanish
- French
- Italian
- German
- Danish
- Dutch
- Auxiliary

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ④	Language
4.	Press ④ to toggle between languages	English Spanish French Italian German Danish Dutch Auxiliary
5.	Press # to save.	Language
6.	Press Service Mode Button ⬛	(Sales Mode)

NOTE: If *AUXILIARY* is selected, then an alternative list of operator created sales mode messages will be used. (See Section 7.3)

4.5 AUTO_REINSTATE

Auto-Reinstatement of Failed Selections - This feature is for a satellite soft drink or similar vendor utilizing a **Sold Out** or **Empty** switch. Normally, when an empty selection is detected during an attempted vend, that selection is recorded as inoperative and requires resetting before it can be vended again. Satellite units utilize a range of selections within the controller. Programming this range of selections into **Auto Reinstatement** will eliminate the necessity of manually resetting the controller after re-loading a selection that is in a **Sold Out** condition.

NOTE: If **iVend™ Optical System** is installed, then **ALL** selections are set to **AUTOREINST** "ON" unless changed.

4.5.3 AUTOREINSTATE WHOLE MACHINE

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑤	Autoreinstate
4.	Press ③ to toggle All ON/OFF	ALL ON
5.	Press # to save	ALL OFF
6.	Press ✳ 3 times to exit	Sales Mode

4.5.2 AUTOREINSTATE BY ROW

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑤	Autoreinstate
4.	Press ② to enter Row	Row - - - ON
5.	Press ① to toggle ON/OFF	Row - - - OFF
6.	Press #⃝ to save	Row - - - OFF
7.	Press ✱ to enter another row or 3 times to exit to **Sales Mode**	

4.5.1 AUTOREINSTATE BY ITEM

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑤	Autoreinstate
4.	Press ① to enter Item	Item - - - ON
5.	Press ① to toggle ON/OFF.	Item - - - OFF
6.	Press #⃝ to save.	Item - - - OFF
7.	Press ✱ to enter another item or 3 times to exit to sales mode.	

4.6 SPACE TO SALES (STS)

The following settings are available: *Whole Rows; Half Rows; By 2's; Whole Machine; Custom*

NOTE: If custom is chosen. See section 4.7 for instructions.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑥	STS Off
4.	Press ⑥ to toggle through options	STS: Whole Rows Half Rows By 2's Whole Machine Custom
5.	Press #⃝ to save setting	STS: Whole Rows
6.	Press ✱ 3 times to exit	Sales Mode

4.7 CUSTOM STS

Before setting this option you must select "Custom" as your setting under menu 4.6.

This option is used to tie selections together that do not fall under any of the categories under menu 4.6. (example: 10; 20; 24)

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑥	STS
4.	Press ⑥ to toggle to Custom	STS: Custom
5.	Press # to save	
6.	Press * to exit	Configuration
7.	Press ⑦	STS - - -:
8.	Enter first selection	STS 010:
9.	Press # to save	STS 010: 010
10.	Press # to add another selection	STS 010: 012
11.	Press # to save (to enter more selections repeat step 9 and 10)	STS 010: 010; 012 (the screen will display the selections that you have entered. After 3 selections the screen will scroll the selections.)
12.	Press * 3 times to exit	

4.8 TIME/DATE

Sets the time and date for timed operations.

The following submenus are available:

- Date
- Time
- Daylight Savings

4.8.1 DATE

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑧	Time/ Date menu
4.	Press ①	MM/DD/YYYY
5.	Press # to edit date	06/01/2007
6.	Press # to save.	06/01/2007
7.	Press * 4 times to exit	Sales Mode

4.8.2 TIME

Time Setting - This menu controls and displays the current time of day. The display will show a 24 hour format.

Examples:
8:05 a.m. = TIME O8.O5
01:15 p.m. = TIME 13.15
11:45 p.m. = TIME 23.45

TIME SETTING

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑧	Date/ Time
4.	Press ② for Time menu	08:00:25
5.	Press ⌗ to edit	09:00:25
6.	Press ⌗ to save	09:00:25
7.	Press ✱ 4 times to exit	Sales Mode

DAYLIGHT

Daylight Savings Setting - This menu controls and displays the currently active daylight savings rule.

DAYLIGHT SAVINGS

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑧	Date/ Time
4.	Press ③ for Daylight Savings menu	DST
5.	Press ③ to toggle between settings	N AMERICA OFF AUSTRALIA EUROPE
6.	Press ⌗ to save	DST N. AMERICA
7.	Press ✱ 4 times to exit	Sales Mode

4.9 HEALTH SAFETY (HS)

Health Safety - This menu allows the user to specify the operating region to meet health safety requirements. The health safety requirements can be applied to an individual Item(s), Row(s), or ALL (whole machine). If the requirements are violated then the Item(s), Row(s) or the whole machine will be shut down accordingly.

4.9.1 HS "All"

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⑨	Health Safety
4.	Press ③ to toggle All ON/OFF	All Items ON/OFF
5.	Press ⌗ to save	All Items ON
6.	Press ✱ to exit	Health Safety

	STEP	DISPLAY
7.	Press (9) to toggle HS ON/OFF (default is ON)	Enable ON
8.	Press (#) to save	Enable OFF
9.	Press (*) 4 times to exit	Sales Mode

4.9.2 HS by Row

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press (4)	Configuration
3.	Press (9)	Health Safety
4.	Press (2) to enter Row	Row (- -) ON/OFF
5.	Press (1) to toggle Row ON/OFF	Row (02) ON/OFF
6.	Press (#) to save	Row (02) ON
7.	Press (*) to exit and enter another row or press (*) 2 times to go back to HS	Health Safety
8.	Press (9) to toggle HS ON/OFF (default is ON)	Enable ON/OFF
9.	Press (#) to save	Enable ON
10.	Press (*) 4 times to exit	

4.9.1 HS by Item

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press (4)	Configuration
3.	Press (9)	Health Safety
4.	Press (1) to enter an item	Item (- - -) ON/OFF
5.	Press (1) to toggle Item ON/OFF (default is ON)	Item (0 1 2) ON/OFF
6.	Press (#) to save	Item (0 1 2) OFF
7.	Press (*) to enter another item or press (*) 2 times for HS menu	Health Safety
8.	Press (9) (default is ON)	Enable ON/OFF
9.	Press (9) to toggle HS ON/OFF	Enable OFF
10.	Press (#) to save	Enable OFF
11.	Press (*) 4 times to exit	Sales Mode

4.0 ADVANCED CONFIGURATION

The following menus are available under this option:
- Beep Enable
- Optics Disables
- Motor Type
- Talker Password
- Set Defaults
- Temperature

4.0.1 BEEP ENABLE

Use this option to choose whether a sound is heard when buttons are pressed.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ① to toggle Beep ON/OFF	Beep Enable ON
6.	Press # to save	Beep Enable OFF
7.	Press ✳ 4 times to exit	Sales Mode

4.0.2 OPTICS DISABLES

When set up — if the I-vend is not aligned, or sensors are blocked or unplugged, the "Out of Service" POS will display until the I-vend is fixed.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ② to toggle Optics Disables ON/OFF	Optics Disables ON/OFF
6.	Press # to save	Optics Disables OFF
7.	Press ✳ 4 times to exit	Sales Mode

4.0.3 MOTOR TYPE

Motor Type is preset at the factory. The only time this should be checked is after the installation of a new board to assure that the board is compatible.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ③ to toggle from 2 or 3 wire motors	Motor Type 2-wire/3-wire
6.	Press # to save	Motor Type 2-wire
7.	Press ✳ 4 times to exit	Sales Mode

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4.0.4 TALKER

Talker assists the vision impaired to service the machine.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ④ to toggle Talker ON/OFF	Talker ON/OFF
6.	Press # to save	Talker ON
7.	Press ✱ 4 times to exit	Sales Mode

4.0.5 PASSWORD

Allows the operator to change the password

NOTE: if you forget your personal password after changing it from the default, contact Technical service at 1-800-833-4411for help.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ⑤ for Password menu	Password 2314
6.	Press # to edit	Password 1243
7.	Press # to save	Password 1243
8.	Press ✱ 4 times to exit	Sales Mode

4.0.6 SET DEFAULTS

Use these steps to reset the defaults for the following:

NOTE: If you have previously changed your password, this will reset it back to the factory default of 2314.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ⑥	Set Defaults
6.	Press ⑥	⓪ to reset options
7.	Press ⓪	Resetting…Done
8.	Press ✱ 4 times to exit	Sales Mode

This menu allows the board to electronically control the refrigeration system.

	STEP	DISPLAY
1.	Press Service Mode Button 🔲	Motors (- -)
2.	Press ④	Configuration
3.	Press ⓪	Password
4.	Enter Password (default 2314)	****
5.	Press ⑦ to edit Refrigeration Type. **Default is Snack**	Cold Slackened Frozen Dual Zone Chilled Snack *See Section 3.8 for details*
6.	Press ⧣ to save	Temp Slackened
7.	Press ✱ 4 times to exit	Sales Mode

5 PRICING

Price Setting - This menu allows three (3) methods for assigning prices:

- ITEM — by individual selections
- ROW— by shelf or tray
- ALL ITEMS — by entire machine.
- COUPONS — by Item, Row, or ALL
- TOKENS — by Item, Row, or ALL
- COMBO

The maximum price that can be set is $655.35.

5.1 ALL

This menu allows you to set the selection price of every item all at once.

Time Saving Tip:
Instead of setting the price of each item one at a time, it is much faster to set the common price of the entire machine; then go back and set the price of each item or row.

	STEP	DISPLAY
1.	Press Service Mode Button 🔲	Motors (- -)
2.	Press ⑤	Pricing
3.	Press ③ to enter price	ALL Items $0.50
4.	Press ⧣ to save.	ALL Itmes $0.50
5.	Press ✱ 3 times to exit.	(Sales Mode)

5.2 ROW

Use this menu to set the price of a row (shelf) all at the same time.

Time Saving Suggestion:
Instead of setting the price of one item at a time, set the common price of a Row, then go back and set the price of each item.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press **5**	Pricing
3.	Press **2**	Row: - - $0.00
4.	Enter row number and price *Example: Top row=01, row below top row=02, etc.* Program will automatically go to the next Row.	Row:01 $0.50
5.	Press **#** to save.	Row 01 $0.50
6.	Press **✱** 3 times to exit	(Sales Mode)

5.3 ITEM

This menu allows price setting by each selection item.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press **5**	Pricing
3.	Press **1**	Item
4.	Enter Item and price	Item 010 $0.50
5.	Press **#** to save. The program will automatically go to the next selection number.	Item 010 $0.50
6.	Press **✱** 3 times to exit.	(Sales Mode)

5.4 COUPON

Allows the operator to designate the values of coupons that are accepted by pre-programmed validators. There are 5 programmable settings.

Value Coupon - This menu enables the use of coupons —this option requires a programmed validator [MDB version]. Several sub-menus are available that allows setting of the values of coupons. This feature also allows coupons to be set by Item, Row, or All.

If space to sales whole machine is "on" and you are setting Coupons by Row the Row must be set as row1.

NOTE: **Coupon Value Setting** - Sets the value of a coupon to be used with this vendor. Up to five different coupons can be set.

After one coupon is accepted, further coupons will not be accepted until a successful vend has taken place.

Note: If no value is set, coupons will be shown as free vends.

5.4.3 COUPON "ALL"

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑤	Price
3.	Press ④	Coupons
4.	Press ① for Coupon1	Coupon1
5.	Press ③ to toggle on/off	All ON/OFF
6.	Press # to save	All ON
7.	Press ✱ to exit	Coupon1
8.	Press ④ to enter Coupon Value menu	Coupon1: $0.00
9.	Press # to edit	Coupon1: $1.50
10.	Press # to save	Coupon1: $1.50
11.	Press ✱ 2 times to edit coupon 2-5 or press ✱ 3 times to exit menu	

5.4.2 COUPON BY ROW

COUPON BY ROW

STEP		DISPLAY
1.	Press Service Mode Button ⬛	Motor Count
2.	Press ⑤	Pricing
3.	Press ④	Coupons
4.	Press ① for Coupon1	Coupon1
5.	Press ③ to turn off "All Items"	All ON/OFF
6.	Press # to save	All OFF
7.	Press ② to enter Row	Row 01 OFF
8.	Press ① to toggle OFF/ON	Row: 01 ON
9.	Press # to save	Row: 01 ON
10.	Press ✱ to exit	Coupon1
11.	Press ④ to enter Value menu	Coupon1: $0.00
12.	Press # to edit value	Coupon1: $1.50
13.	Press # to save	Coupon1: $1.50
14.	Press ✱ 2 times to edit coupon2-5 or press ✱ 3 times to exit menu	

5.4.1 COUPON BY ITEM

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑤	Pricing
3.	Press ④ for Coupon menu	Coupon
4.	Press ① for Coupon1	Coupon1
5.	Press ③ to toggle ALL OFF	ALL ON/OFF
6.	Press # to save	ALL OFF
7.	Press ① to enter Item	Item 010 OFF
8.	Press ① to toggle ON/OFF	Item 010 ON
9.	Press # to save	Item 010 ON
10.	Press ✳ to exit	Coupon 1
11.	Press ④ to enter Coupon Value menu	Coupon1$0.00
12.	Press # to edit value	Coupon1 $1.00
13.	Press # to save	Coupon1 $1.00
14.	Press ✳ 2 times to edit Coupon 2-5 or press ✳ 3 times to exit to sales mode	

5.5 TOKEN

This option allows the operator to designate the values of tokens accepted by pre-programmed coin mechs.

Value Token- This menu enables the use of tokens; this option requires an MDB version coin mechanism/changer. Several sub-menus are available that allow setting token values. This feature also allows settings by Item, Row, or All

If "**Space to Sales Whole Machine**" is "ON", and you are setting Tokens by Row, the Row must be set to Row1.

5.5.1 TOKEN "ALL"

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑤	Pricing
3.	Press ⑤	Token1
4.	Press ③ to toggle ON/ OFF	All ON/OFF
5.	Press # to save	All ON
6.	Press ✳ to exit	Token1
7.	Press ④ to enter Value menu	Token1: $0.00

	STEP	DISPLAY
8.	Press **#** to edit	Token1: $1.00
9.	Press **#** to save	Token1: $1.00
10.	Press **✳** 2 times to edit token 2-5 or press **✳** 3 times to exit	

5.5.2 TOKEN BY ROW

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press **5**	Pricing
3.	Press **5**	Token1
4.	Press **1** for Token1	Token1
5.	Press **3** to toggle; turn "all OFF"	All ON/OFF
6.	Press **#** to save	All OFF
7.	Press **✳** to exit	Token1
8.	Press **2** to set by Row Enter Row	Row - - Row 01 OFF/ON
9.	Press **1** to toggle ON/OFF	Row 01 ON
10.	Press **#** to save	Row 01 ON
11.	Press **✳** to exit	Token1
12.	Press **4** to enter Value menu	Token1: $0.00
13.	Press **#** to edit	Token1: $1.00
14.	Press **#** to save	Token1: $1.00
15.	Press **✳** 2 times to edit token 2-5 or press **✳** 3 times to exit	

5.5.1 TOKEN BY ITEM

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press **5**	Pricing
3.	Press **5**	Tokens
4.	Press **1** for Token1	Token1
5.	Press **3** to turn off "ALL"	All ON/OFF
6.	Press ⬛ to save	All OFF
7.	Press **✳** to exit	Token1
8.	Press **1** to enter Item Enter item number	Item - - - Item 010
9.	Press **1** to toggle on/off˙	Item 010 ON/OFF

10.	Press ⏻ to save	Item 010 ON
11.	Press ✱ to exit	Token1
12.	Press ④ to enter Value menu	Token1: $0.00
13.	Press ⏻ to edit value	Token1: $1.50
14.	Press ⏻ to save	Token1: $1.50
15.	Press ✱ 2 times to edit coupon 2-5 or press ✱ 3 times to exit menu	

5.7 COMBO

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑤	Pricing
3.	Press ⑦ to enter Combo menu (There are 5 available combo settings. For Combo 2 press ②; 3 press ②; etc. and follow the steps below.)	Combo
4.	Press ① for Combo 1	Combo1: - - - $0.00
5.	Enter Combo number and price	Combo1: 090 $1.00
6.	Press ⏻ to save	Combo1: 090 $1.00
7.	Press ① to set Range1	010-020
8.	Press ⏻ to save	010-020
9.	There are 5 settable ranges. To continue setting ranges repeat steps 7 & 8. When finished press ✱ repeatedly to exit out of the menu.	

6 ACCOUNTING

Use this menu to gain access to menus that display or reset data for various types of cash and vend totals. Counts can be viewed by individual items, rows or as the whole machine.

Historical totals: These are the counts since the initialization of the machine. They cannot be reset.

Resettable totals: These are totals since the last reset. These can be reset at any time. You have the option to reset just an item, row or the whole machine.

**Clearing by item and row will only clear the item or row entered. **

6.3 ACCOUNTING "ALL"

This menu displays the total sales value and total vend count for the entire machine.

This will include satellite machines.

Confirming clear will clear ONLY the resettable counts for ALL ITEMS.

ACCOUNTING ALL		
	STEP	**DISPLAY**
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑥	Accounting
3.	Press ③	All
4.	Press ① Hist. Ct	Hist. Ct. 10
5.	Press ② Hist. Cash	Hist. Cash $10.00
6.	Press ③ Reset. Ct.	Res. Count 10
7.	Press ④ Reset Cash	Res. Cash $10.00
8.	Press ⑤ Hist. Card	Hist. Card $0.00
9.	Press ⑥ Hist. 2nd Vends	Hist. 2nd Vends 0
10.	Press ⑦ Reset. Card	Res Card $0.00
11.	Press ⑧ Reset 2nd Vends	Res 2nd Vends 0
12.	Press ⓪ to clear all selections	Clear?
13.	Press ⓪ to confirm clear	Cleared
14.	Press ✱ 3 times to exit	Sales Mode

6.2 ACCOUNTING BY ROW

	STEP	**DISPLAY**
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑥	Accounting
3.	Press ② to enter row	Row 01
4.	Press ① Hist. Ct.	Hist. Ct. 10
5.	Press ② Hist. Cash	Hist. Cash $10.00
6.	Press ③ Reset. Ct.	Reset. Ct. 10
7.	Press ④ Reset Cash	Reset Cash $10.00
8.	Press ⑤ Hist. Card	Hist. Card $0.00
9.	Press ⑥ Hist. 2nd Vends	Hist. 2nd vends 0
10.	Press ⑦ Reset Card	Reset Card $0.00
11.	Press ⑧ Reset 2nd vends	Reset 2nd Vends 0
12.	Press ⓪ to clear Resettables	Clear?

	STEP	DISPLAY
13.	Press **0** to confirm clear	Cleared
14.	Press **✱** to enter another row or press **✱** 4 times to exit	Sales Mode

6.1 ACCOUNTING BY ITEM

	STEP	DISPLAY
1.	Press Service Mode Button ◼	Motors (- -)
2.	Press **6**	Acct
3.	Press **1** to enter an item	Item 010
4.	Press **1** Hist. ct.	Hist Ct. 10
5.	Press **2** Hist. cash	Hist Cash $10.00
6.	Press **3** Reset. Ct..	Reset Ct. 10
7.	Press **4** Reset. Cash	Reset. Cash $10.00
8.	Press **5** Hist. Card	Hist. Card $0.50
9.	Press **6** Hist 2nd vends	Hist. 2nd vends 2
10.	Press **7** Reset. Card	Reset Card $0.50
11.	Press **8** Reset 2nd vends	Reset 2nd Vends 2
12.	Press **0** to clear Resettables	Clear?
13.	Press **0** to confirm clear	Cleared

7 ADVANCED OPTIONS

To enter this menu you will be prompted to input a password. The following options are available:

- Discount
- Promo Vend
- Free Vend Rate
- Exact Change
- Unconditional Acceptance
- Max Change
- Programmable POS
- Shutdown
- Energy Savings

7.1 DISCOUNT

This menu will access the following sub-menus that allow the vending machine (controller) to charge a different price for selections at different times or on different days:

- Item
- Row
- All
- Start Time
- Day
- Stop Time
- Value
- Enable ON/OFF

7.1.3 DISCOUNT "ALL"

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default 2314)	****
4.	Press ①	Discount
5.	Press ③ to toggle All ON/OFF	ALL ON/OFF
6.	Press ⌗ to save	ALL ON
7.	Press ✱ to exit to Discount	Discount
8.	Press ④ to enter day menu	Day
9.	Press ① to toggle Every Day ON/OFF (To set individual days turn Every Day OFF)	Every Day ON/OFF
10.	Press ⌗ to save	ALL Days ON
11.	Press ② to toggle Mon. ON/OFF	Mon ON/OFF
12.	Press ⌗ to save	Mon ON
13.	Press ③ to toggle Tues ON/OFF	Tues ON/OFF
14.	Press ⌗ to save	Tues OFF
15.	Press ④ to toggle Wed ON/OFF	Wed ON/OFF
16.	Press ⌗ to save	Wed ON
17.	Press ⑤ to toggle Thurs. ON/OFF	Thurs. ON/OFF
18.	Press ⌗ to save	Thurs. ON
19.	Press ⑥ to toggle Fri On/OFF	Fri On/OFF
20.	Press ⌗ to save	Fri OFF
21.	Press ⑦ to toggle Sat On/OFF	Sat ON/OFF
22.	Press ⌗ to save	Sat ON
23.	Press ⑧ to toggle Sun ON/OFF	Sun ON/OFF
24.	Press ⌗ to save	Sun OFF
25.	Press ✱ 2 times to exit to Discount menu	Discount
26.	Press ⑤ 2 times to enter Start Time menu	Start Time 00:00
27.	Press ⌗ to edit	08:00
28.	Press ⌗ to save	08:00
29.	Press ✱ to exit to Start Time	Start Time

If Every Day "ON" is your setting skip to step #27
To set individual days use steps 12-27

	STEP	DISPLAY
30.	Press ⑥ 2 times to enter Stop Time menu	Stop Time 23:59
31.	Press # to edit	10:00
32.	Press # to save	10:00
33.	Press ✱ 2 times to exit to **Discount** menu	Discount
34.	Press ⑦ to enter Disc. Value	Disc. $0.50
35.	Press # to save	Disc. $0.50
36.	Press ✱ 2 times to exit to discount menu	Discount
37.	Press ⑨ to toggle enable ON/OFF	Enable ON/OFF
38.	Press # to save	Enable ON
39.	Press ✱ 4 times to exit to Sales Mode	Sales Mode

7.1.2 DISCOUNT BY ROW

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
	Press ⑦	Password
2.	Enter Password (default 2314)	****
	Press ①	Discount
3.	Press ③ to toggle and turn off All	All OFF
4.	Press # to save	All OFF
5.	Press ✱ to exit to Discount menu	Discount
6.	Press ② for Row Enter row	Row - - Row 01 OFF/ON
7.	Press ② to toggle OFF/ON	Row 01 ON
8.	Press # to save	Row 01 ON
9.	Press ✱ once to enter another row or 2 times to go to Discount menu	Discount
10.	Press ④ to enter Day menu	Day
11.	Press ① to toggle All days ON/OFF (To set individual days turn Every Day off)	Every Day ON/OFF
12.	Press # to save	All days ON
13.	Press ② to toggle Mon. ON/OFF	Mon ON/OFF
14.	Press # to save	Mon ON
15.	Press ③ to toggle Tues ON/ OFF	Tues ON/OFF
16.	Press # to save	Tues OFF

If Everyday "ON" is your setting skip to step # 27

To set individual days use steps 13-27

17.	Press **4** to toggle Wed ON/OFF	Wed ON/OFF
18.	Press **#** to save	Wed OFF
19.	Press **5** to toggle Thurs. ON/OFF	Thurs ON/ OFF
20.	Press **#** to save	Thurs ON/OFF
21.	Press **6** to toggle Fri. ON/OFF	Fri ON/OFF
22.	Press **#** to save	Fri ON
23.	Press **7** to toggle Sat. ON/ OFF	Sat. ON/OFF
24.	Press **#** to save	Sat. OFF
25.	Press **8** to toggle Sun. ON/OFF	Sun ON/OFF
26.	Press **#** to save	Sun OFF
27.	Press **✱** 2 times to exit to Discount menu	Discount
28.	Press **5** 2 times to enter Start Time menu	Start Time 00:00
29.	Press **#** to edit start time enter in 24hr time (HH:MM)	08:00
30.	Press **#** to save	08:00
31.	Press **6** 2 times to enter stop time menu	Stop Time 23:59
32.	Press **#** to edit	10:00
33.	Press **#** to save	10:00
34.	Press **✱** 2 times to exit to Discount menu	Discount
35.	Press **7** to enter disc. Value	Disc. $0.50
36.	Press **#** to save	Disc. $0.50
37.	Press **✱** 2 times to exit to Discount menu	Discount
38.	Press **9** to toggle ON/OFF	Enable ON/OFF
39.	Press **#** to save	Enable ON
40.	Press **✱** 4 times to exit	Sales Mode

7.1.1 DISCOUNT BY ITEM

If Every Day "ON" is your setting skip to step #27
To set individual days use steps 13-27

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default 2314)	****
4.	Press ①	Discount
5.	Press ③ to toggle ALL items OFF	ALL ON/ OFF
6.	Press # to save	ALL OFF
7.	Press ① to enter an Item	Item 010 OFF
8.	Press ① to toggle Item ON	Item 010 ON
9.	Press # to save	Item 010 ON
10.	Press ④ to enter Day menu	Day
11.	Press ① to toggle Everyday ON/OFF (To set individual days Everyday must be OFF)	Everyday ON/OFF
12.	Press # to save	Everyday ON
13.	Press ③ to toggle Tues ON/OFF	Tues ON/OFF
14.	Press # to save	Tues OFF
15.	Press ④ to toggle Wed ON/OFF	Wed ON/OFF
16.	Press # to save	Wed ON
17.	Press ⑤ to toggle Thurs. ON/OFF	Thurs. ON/OFF
18.	Press # to save	Thurs. ON
19.	Press ⑥ to toggle Fri On/OFF	Fri On/OFF
20.	Press # to save	Fri OFF
21.	Press ⑦ to toggle Sat On/OFF	Sat ON/OFF
22.	Press # to save	Sat ON
23.	Press ⑧ to toggle Sun ON/OFF	Sun ON/OFF
24.	Press # to save	Sun OFF
25.	Press ✱ 2 times to exit to Discount menu	Discount
26.	Press ⑤ 2 times to enter Start Time menu	Start Time 00:00
27.	Press # to edit	08:00
28.	Press # to save	08:00
29.	Press ✱ to exit	Start Time

	STEP	DISPLAY
30.	Press ⑥ 2 times to enter Stop Time menu	Stop Time 23:59
31.	Press ⍟# to edit	10:00
32.	Press ⍟# to save	10:00
33.	Press ⍟* 2 times to exit to Discount menu	Discount
34.	Press ⑦ to enter Disc. Value	Disc. $0.50
35.	Press ⍟# to save	Disc. $0.50
36.	Press ⍟* 2 times to exit to Discount menu	Discount
37.	Press ⑨ to toggle Enable ON/OFF	Enable ON/OFF
38.	Press ⍟# to save	Enable ON
39.	Press ⍟* 4 times to exit	Sales Mode

7.2 PROMO VEND

Promotional Vend - This function allows a free promotional product to be given to a customer in response to their purchase of another product. Examples: 1) Purchase of selection #32 will give away #34; 2) Purchase selection #53 will give away #54. (Examples only—you are not limited to only 2 promo vends)

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press ⑦	Password
3.	Enter password (default 2314)	****
4.	Press ②	Promo Vend
5.	Press ④ to toggle ON/OFF	Promo Vend ON/OFF
6.	Press ⍟# to save	Promo Vend ON
7.	Press ⍟* to exit	Promo Vend
8.	Press ① to enter item	Item 012 OFF
9.	Press ① to toggle ON/OFF	Item 012 ON
10.	Press ⍟# to save	Item 012 ON
11.	Press ⍟* 3 times to exit	Sales Mode

7.3 FREE VEND RATE

Enter a number from 0-255.
This will set the number of paid vends between free vends.
Example: If set at 5; every 5th vend will be free.

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default 2314)	****
4.	Press ③ to enter Free Vend Rate menu	Free Vend Rate
5.	Press ⍟# to edit	Free Vend Rate 10

6.	Press (#) to save	Free Vend Rate 10
7.	Press (*) 3 times to exit	Sales Mode

7.4 EXACT CHANGE

Exact Change - Sets the exact change value which also triggers the display of the *Please Use Exact Change* message.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press (7)	Password
	Enter Password (default 2314)	****
3.	Press (4)	Exact Change $0.00
4.	Press (#) to edit	Exact Change $1.00
5.	Press (#) to save	Exact Change $1.00
6.	Press (*) 3 times to exit.	(Sales Mode)

If "Uncond. Accept." is set, for example, at $20.00, exact change will also be $20.00 and cannot be set for a lower amount.

7.5 UNCONDITIONAL ACCEPTANCE

Unconditional Acceptance - Sets the unconditional acceptance value. All coins or bills equal to or less than this set value will be accepted even if the changer <u>cannot</u> return an equal amount of change.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press (7)	Password
3.	Enter Password (default-2314)	****
4.	Press (5)	Uncond. Accept $0.00
5.	Press (#) to edit	Uncond. Accept $5.00
6.	Press (#) to save	Uncond. Accept $5.00
7.	Press (*) 3 times to exit.	(Sales Mode)

The Unconditional Acceptance set value is adjustable but the maximum value is equal to the largest denomination of currency or coin accepted by the changer or validator.

7.6 MAX CHANGE

Maximum Change Option - This option will prevent change from being returned to the customer until the amount of credit has been reduced to a value less than or equal to the programmed maximum change limit.

Note:

The highest value that can be set for the maximum price is 655.35 for a scale factor of 1 and 999.95 for a scale factor of 5.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press (7)	Password
	Enter Password (default is 2314)	****
3.	Press (6)	MAX CHANGE
4.	Press (1) to toggle ON/OFF	Max Change OFF/ON
5.	Press (#) to save	Max Change ON
6.	Press (2) to enter dollar amt.	Max Change $50.00
7.	Press (#) to save	Max Change $50.00

	STEP	DISPLAY
8.	Press numbers on keypad.	
9.	Press ✱ 3 times to exit.	(Sales Mode)

7.7 PROGRAMMABLE POS MESSAGE
These are messages that can be edited. You must first turn off the default POS message under the options menu.

7.7.1 PROGRAMMING the POS MESSAGE

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default is 2314)	****
4.	Press ⑦	Programmable POS
5.	Press ① to toggle ON/OFF	Programmable POS OFF/ ON
6.	Press # to save	Prog. POS ON
7.	Press ② to enter message	...Enjoy A Snack
8.	Press ① ; ④ ; ⑦ ; to move cursor to the left Press ③ ; ⑥ ; ⑨ ; to move cursor to the right Press ② ; ⑤ ; ⑧ ; to move the cursor from top to bottom. Once the cursor is in the place you want to edit press # In edit mode ⓪ is space key, ✱ is backspace # saves	
9.	Press # to save new message	
10.	Press ✱ 4 times to exit	Sales Mode

To edit the messages under #3 the language must be in Aux. mode
7.7.3 AUXILLARY MESSAGES

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ④	Configuration
3.	Press ④ 2 times to toggle to set language to auxiliary	Language: auxiliary
4.	Press # to save	
5.	Press ✱ 2 times to exit configuration menu	
6.	Press ⑦ and enter password (default is 2314)	****
7.	Press ⑦ Programmable POS	
8.	Press ③ to enter auxiliary messages	

9.	Press ① to toggle through messages.	
10.	Press # to edit the selected message. Press ① ; ④ ; ⑦ ; to move cursor to the left Press ③ ; ⑥ ; ⑨ ; to move cursor to the right Press ② ; ⑤ ; ⑧ to move the cursor from top to bottom. Once the cursor is in the place you want to edit press # In edit mode ⓪ is space key, ✱ is backspace; # saves	
11.	Press # to save	
12	Press ✱ 3 times to exit or to edit more messages Press ① and follow step 10.	

7.7.4 TIME DISPLAY

This option will display the time and date. Programmable POS does not have to be "ON" for this to work.

		STEP	DISPLAY
	1.	Press Service Mode Button ⬤	Motors (- -)
Default Password 2314	2.	Press ⑦ and enter password	****
	3.	Press ⑦	Programmable POS
Default is OFF	4.	Press ④ to enter time display menu	Time Display: OFF
	5.	Press ④ to toggle on and off	Time Display: ON
	6.	Press # to save	Time Display: ON
	7.	Press ✱ 4 times to exit	Sales Mode

7.8 SHUTDOWN

This option allows the controller to shut down a range of selections or the entire machine based on four (4) time-of-day intervals. If the time falls within one of these intervals and the entire machine has been selected for shutdown then the message *VENDING OPERATION TO RESUME AT hh.mm* is displayed.

If a range of selections has been chosen for shutdown that does not encompass the entire machine, the same message will display once every time the customer makes a selection that falls within the range.

> *Note: The correct time and date must be set so that the **SHUTDOWN** intervals work correctly. Refer to page 11. Also, for any given day these 4 time intervals may overlap one another. For each interval, the machine (controller) can be programmed from no days up to every day of the week on which the specified shutdown time intervals will be active.*

7.8.1 Shutdown ALL

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default is 2314)	****
4.	Press ⑧	Shutdown
5.	Press ① for Interval1	Interval1
6.	Press ③ to toggle All ON	All OFF/ON
7.	Press # to save	All ON
8.	Press ✱ to exit	Interval1
9.	Press ④ to enter day menu	Day
10.	Press ① to toggle Everyday ON/OFF (To program individual days turn Everyday OFF)	Everyday ON/OFF
11.	Press # to save	Everyday ON
12.	Press ② to toggle Mon ON/OFF	Mon ON/'OFF
13.	Press # to save	Mon ON
14.	Press ③ to toggle Tues ON/OFF	Tues. ON/OFF
15.	Press # to save	Tues. OFF
16.	Press ④ to toggle Wed ON/OFF	Wed. ON/OFF
17.	Press # to save	Wed OFF
18.	Press ⑤ to toggle Thurs. ON/OFF	Thurs. ON/OFF
19.	Press # to save	Thurs. ON
20.	Press ⑥ to toggle Fri. ON/OFF	Fri. ON/OFF
21.	Press # to save	Fri. ON
22.	Press ⑦ to toggle Sat. ON/OFF	Sat. ON/OFF
23.	Press # to save	Sat. OFF
24.	Press ⑧ to toggle Sun. ON/OFF	Sun. ON/OFF
25.	Press # to save	Sun. ON
26.	Press ✱ 2 times to exit	Interval1
27.	Press ⑤ 2 times to enter start time menu	Start Time 00:00
28.	Press # to edit	08:00
29.	Press # to save	08:00
30.	Press ✱ to exit	Start Time

If Everyday "ON" is your setting skip to step # 27

To set individual days use steps 13-27

#	STEP	DISPLAY
31.	Press ⑥ 2 times to enter stop time menu	Stop Time 23:59
32.	Press Ⓗ to edit	10:00
33.	Press Ⓗ to save	10:00
34.	Press ✳ 2 times to exit to Interval menu	Interval1
35.	Press ⑧ to toggle Lighting ON/OFF **Lighting ON-turns off lights during shutdown Lighting OFF- leaves lights On during shutdown**	Lighting On/OFF
36.	Press Ⓗ to save	Lighting ON
35.	Press ⑨ to toggle enable ON/OFF	Enable ON/OFF
36.	Press Ⓗ to save	Enable ON
37.	Press ✳ 2 times to edit Interval 2-4	Shutdown
38.	Press ✳ 3 times to exit to sales mode	Sales Mode

(35) **NOTE**: Machine must be equipped with optional light relay. Default setting is **OFF**

7.8.2 SHUTDOWN BY ROW

#	STEP	DISPLAY
1.	Press Service Mode Button ◉	Motors (- -)
2.	Press ⑦	Password
3.	Enter Password (default is 2314)	****
4.	Press ⑧	Shutdown
5.	Press ① for Interval1	Interval1
6.	Press ② to set Row Enter Row	Row - - Row 01 OFF
7.	Press ① to toggle Row ON	Row 01 ON
8.	Press Ⓗ to save	Row 01 ON
9.	Press ✳ to enter another Row or press ✳ 2 times to return to Interval menu	Interval1
10.	Press ④ to enter Day menu	Day
11.	Press ① to toggle Everyday ON/OFF (To program individual days turn everyday OFF)	Everyday ON/OFF
12.	Press Ⓗ to save	Everyday ON
13.	Press ② to toggle Mon ON/OFF	Mon ON/'OFF
14.	Press Ⓗ to save	Mon ON
15.	Press ③ to toggle Tues ON/OFF	Tues. ON/OFF
16.	Press Ⓗ to save	Tues. OFF

If Everyday "ON" is your setting skip to step # 27

To set individual days use steps 13-27

17.	Press ④ to toggle Wed ON/OFF	Wed. ON/OFF
18.	Press ⌗ to save	Wed OFF
19.	Press ⑤ to toggle Thurs. ON/OFF	Thurs. ON/OFF
20.	Press ⌗ to save	Thurs. ON
21.	Press ⑥ to toggle Fri. ON/OFF	Fri. ON/OFF
22.	Press ⌗ to save	Fri. ON
23.	Press ⑦ to toggle Sat. ON/OFF	Sat. ON/OFF
24.	Press ⌗ to save	Sat. OFF
25.	Press ⑧ to toggle Sun. ON/OFF	Sun. ON/OFF
26.	Press ⌗ to save	Sun. ON
27.	Press ✱ 2 times to exit	Interval1
28.	Press ⑤ 2 times to enter start time menu	Start Time 00:00
29.	Press ⌗ to edit	08:00
30.	Press ⌗ to save	08:00
31.	Press ✱ to exit	Start Time
32.	Press ⑥ 2 times to enter stop time menu	Stop Time 23:59
33.	Press ⌗ to edit	10:00
34.	Press ⌗ to save	10:00
35.	Press ✱ 2 times to exit to Interval menu	Interval1
36.	Press ⑨ to toggle enable ON/OFF	Enable ON/OFF
37.	Press ⌗ to save	Enable ON
38.	Press ✱ 2 times to edit Interval 2-4	Shutdown
39.	Press ✱ 3 times to exit to sales mode	Sales Mode

7.8.1 SHUTDOWN BY ITEM

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑦	Password
	Enter Password (default is 2314)	****
3.	Press ⑧	SHUTDOWN
4.	Press ① for Interval1	Interval1
5.	Press ① to enter item	Item 010 OFF
6.	Press ① to toggle ON/OFF	Item 010 ON
7.	Press # to save	Item 010 ON
8.	Press ✱ to enter another item or press ✱ 2 times for Interval1 menu	Interval1
9.	Press ④ to enter day menu	Day
10.	Press ① to toggle Everyday ON/OFF (To program individual days turn Everyday OFF)	Everyday ON/OFF
11.	Press # to save	Everyday ON
12.	Press ② to toggle Mon ON/OFF	Mon ON/'OFF
13.	Press # to save	Mon ON
14.	Press ③ to toggle Tues ON/OFF	Tues. ON/OFF
15.	Press # to save	Tues. OFF
16.	Press ④ to toggle Wed ON/OFF	Wed. ON/OFF
17.	Press # to save	Wed OFF
18.	Press ⑤ to toggle Thurs. ON/OFF	Thurs. ON/OFF
19.	Press # to save	Thurs. ON
20.	Press ⑥ to toggle Fri. ON/OFF	Fri. ON/OFF
21.	Press # to save	Fri. ON
22.	Press ⑦ to toggle Sat. ON/OFF	Sat. ON/OFF
23.	Press # to save	Sat. OFF
24.	Press ⑧ to toggle Sun. ON/OFF	Sun. ON/OFF
25.	Press # to save	Sun. ON
26.	Press ✱ 2 times to exit	Interval1
27.	Press ⑤ 2 times to enter Start Time menu	Start Time 00:00
28.	Press # to edit	08:00

If Everyday "ON" is your setting skip to step # 27
To set individual days use steps 12-27

29.	Press (#) to save	08:00
30.	Press (*) to exit	Start Time
31.	Press (6) 2 times to enter Stop Time menu	Stop Time 23:59
32.	Press (#) to edit	10:00
33.	Press (#) to save	10:00
34.	Press (*) 2 times to exit to Interval menu	Interval1
35.	Press (9) to toggle enable ON/OFF	Enable ON/OFF
36.	Press (#) to save	Enable ON
37.	Press (*) 2 times to edit Interval 2-4	Shutdown
38.	Press (*) 3 times to exit to Sales mode	

8 ENERGY SAVINGS

This function allows you to set a **non-health safety** machine to run at a higher than normal temperature during set times. NOTE: Energy Savings runs OUTSIDE of the HS Standards. There are two programmable intervals.

		STEP	DISPLAY
	1.	Press Service Mode Button ▣	Motors (- -)
Default password 2314	2.	Press (7)	Password
	3.	Enter Password	****
	4.	Press (9)	Energy Savings
	5.	Press (1) for Interval1(to edit Interval 2, Press (2))	Interval1/ or Interval2
If Everyday "ON" is your setting skip to step # 23	6.	Press (4) to enter Day menu	Day
To set individual days use steps 8-22	7.	Press (1) to toggle Everyday ON/OFF (To program individual days turn everyday OFF)	Everyday ON/OFF
	8.	Press (#) to save	Everyday ON
	9.	Press (2) to toggle Mon ON/OFF	Mon ON/'OFF
	10.	Press (#) to save	Mon ON
	11.	Press (3) to toggle Tues ON/OFF	Tues. ON/OFF
	12.	Press (#) to save	Tues. OFF
	13.	Press (4) to toggle Wed ON/OFF	Wed. ON/OFF
Optional - → *Default is OFF*	14.	Press (#) to save	Wed OFF
	15.	Press (5) to toggle Thurs. ON/OFF	Thurs. ON/OFF
	16.	Press (#) to save	Thurs. ON

	STEP	DISPLAY
17.	Press ⑥ to toggle Fri. ON/OFF	Fri. ON/OFF
18.	Press ⌗ to save	Fri. ON
19.	Press ⑦ to toggle Sat. ON/OFF	Sat. ON/OFF
20.	Press ⌗ to save	Sat. OFF
21.	Press ⑧ to toggle Sun. ON/OFF	Sun. ON/OFF
22.	Press ⌗ to save	Sun. ON
23.	Press ✱ 2 times to exit	Interval1
24.	Press ⑤ 2 times to enter Start Time menu	Start Time 00:00
25.	Press ⌗ to edit	08:00
26.	Press ⌗ to save	08:00
27.	Press ✱ to exit	Start Time
28.	Press ⑥ 2 times to enter Stop Time menu	Stop Time 23:59
29.	Press ⌗ to edit	10:00
30.	Press ⌗ to save	10:00
31.	Press ✱ 2 times to exit to Interval menu	Interval1
32.	Press ⑦ to enter Storage Temp (default is 62ºF)	Storage temp. 62F
33.	Press ⑦ to reset Storage Temp (available range: 36ºF to 62ºF)	Storage temp.40F
34.	Press ⌗ to save	Storage temp.40F
35.	Press ✱ 2 times for INTERVAL main menu	Interval
36.	Press ⑧ to toggle Lighting ON/OFF Lighting ON-turns off lights during Energy Savings. Lighting OFF- leaves lights On during Energy Savings	Lighting On/OFF
37.	Press ⌗ to save	Lighting ON
38.	Press ⑨ to toggle enable ON/OFF	Enable ON/OFF
39.	Press ⌗ to save	Enable ON
41.	Press ✱ 3 times to exit to Sales mode	Sales Mode

9 TEST

Use this menu to test vend individual motors. The selection will display with the test vend. If a test vend attempt on a particular motor fails, controller will beep.

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press ⑧	Item - - -

	STEP	DISPLAY
3.	Press selection number on keypad and wait	Item 010
4.	Repeat step 3 for other selections.	
5.	Press ✱ 3 times to exit.	(Sales Mode)

TEST ALL MOTORS

This menu will test vend all motors. The selection will display with the test vend. If a test vend attempt on a particular motor fails, then the controller will beep. Satellite machines will also be included in the test.

NOTE:

Pressing ✱ at any time will stop the test.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⑨ and wait.	Item
	The motor selection number will display while it is being tested.	Item 010
3.	Press ✱ 3 times to exit.	(Sales Mode)

0 DIAGNOSTIC

This menu is used to perform a self-diagnostics check and display results.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
	Press ⓪	Diagnostic...
2.	Press ① to start test	Checksum Temp Sensor Optical Coin Acceptor Bill Validator Card Reader1 Card Reader2 Tests Completed
3.	Press ✱ 3 times to exit.	(Sales Mode)

0.2 TEST RELAY

Testing of Relays - This menu provides functions that allow the operator to test the operation of the individual relay lines 1 through 6.

RELAY1 - Refrigeration Compressor.
RELAY2 - Evaporator Fan
RELAY3 - Heater
Upon exit from the function the corresponding relay control line will revert to a state that is dependent on the controller's normal relay control algorithm.

	STEP	DISPLAY
1.	Press Service Mode Button ⬛	Motors (- -)
2.	Press ⓪	Diagnostics
3.	Press ②	Relays
4.	Press ① to toggle Relay 1 ON/OFF	Relay 1 ON/OFF
5.	Press ② to toggle Relay 2 ON/OFF	Relay 2 ON/OFF

	STEP		DISPLAY
6.	Press **3** to toggle Relay 3 ON/OFF		Relay 3 ON/OFF
7.	Press **4** to toggle Relay 4 ON/OFF		Relay 4 ON/OFF
8.	Press **5** to toggle Relay 5 ON/OFF		Relay 5 ON/OFF
9.	Press **6** to toggle Relay 6 ON/OFF		Relay 6 ON/OFF

0.3 LOG

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	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press **1**	Diagnostics
3.	Press **3**	Log
4.	Press **✱** 3 times to exit	Sales Mode

0.4 COIN REJECT RATE

This feature tracks the percentage of coins that have been rejected by the coin mech. This will be reset when in accounting "ALL" has been cleared.

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press **0**	Diagnostics
3.	Press **4** to view percentage	Coin Rej. Rate 10%
4.	Press **✱** 3 times to exit	Sales Mode

0.5 BILL REJECT RATE

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press **0**	Diagnostics
3.	Press **5** to view percentage	Bill Rej. Rate 20%
4.	Press **✱** 3 times to exit	Sales Mode

0.6 IVEND ALIGNED

	STEP	DISPLAY
1.	Press Service Mode Button ▣	Motors (- -)
2.	Press **0**	Diagnostics
3.	Press **6** to check I-vend alignment	Ivend aligned NO/OK

CUSTOMER LEAD THROUGH MESSAGES

The following messages will be affected by the language selection and are stored in the controller memory.

MESSAGE 1	
English	PLEASE USE EXACT CHANGE
Spanish	POR FAVOR DEPOSITE CANTIDAD EXACTA
French	FAITES L'APPOINT S'IL VOUS PLAIT
Italian	PER FAVORE INTRODURRE I PRECISI SOLDI
German	ABGEZAHLTES GELD EINWERFEN
Danish	INDKAST AFTALTE PENGE
Dutch	AFGEPAST GELD IN WERPEN
Auxiliary	[maximum length: 30]

MESSAGE 2	
English	PLEASE INSERT MORE MONEY
Spanish	POR FAVOR DEPOSITE MAS DINERO
French	MONTANT INSUFFISANT INTRODUISEZ D'AUTRES PIECES
Italian	PER FAVORE INTRODURRE PIU SOLDI
German	INDKAST FLERE PENGE
Danish	MEHR GELD EINWERFEN
Dutch	MEER GELD IN WERPEN
Auxiliary	[maximum length: 30]

MESSAGE 3	
English	PLEASE MAKE ANOTHER SELECTION
Spanish	SELECIONE OTRO PRODUCTO
French	FAITES UNE AUTRE SELECTION
Italian	FARE UNA ALTRE SCELTA
German	ANDERE WARE WAHLEN
Danish	VAELG ANDEN VARE
Dutch	ANDERE KEUZE MAKEN
Auxiliary	[maximum length: 25]

MESSAGE 4	
English	OUT OF SERVICE
Spanish	FUERO DE SERVICIO
French	DEMANDEZ LE RESPONSABLE
Italian	PER FAVORE CHIAMARE SERVIZIO
German	BITTE KUNDENDIENST RUFEN
Danish	TILKALD SERVICEMONTOR
Dutch	SERVICEDIENST BELLEN
Auxiliary	[maximum length: 25]

MESSAGE 5	
English	VENDING OPERATION TO RESUME AT hh.mm
Spanish	MAQUINA ENCINDE A LAS hh:mm
French	VENDING OPERATION TO RESUME AT hh.mm
Italian	VENDING OPERATION TO RESUME AT hh:mm
German	VENDING OPERATION TO RESUME AT hh.mm
Danish	VENDING OPERATION TO RESUME AT hh.mm
Dutch	VENDING OPERATION TO RESUME AT hh.mm
Auxiliary	[maximum length: 25]

MESSAGE 6:	
English	DOOR OPEN ERROR
Italian	DOOR OPEN ERROR
Dutch	DOOR OPEN ERROR
Spanish	DOOR OPEN ERROR
Danish	DOOR OPEN ERROR
French	DOOR OPEN ERROR

German	DOOR OPEN ERROR
Auxiliary	[maximum length: 25]
MESSAGE 7	
English	THANK YOU
Italian	GRAZIE
Dutch	DANK U
Spanish	GRACIAS
Danish	TAK
French	MERCI
German	VIEL. DANK
Auxiliary	[maximum length: 10]
MESSAGE 8	
English	FREE ON US
Italian	FREE *
Dutch	FREE **
Spanish	FREE ***
	Only: GRATIS
Danish	FREE ****
French	FREE *****
German	FREE******
Auxiliary	[maximum length: 10]

NOTES

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