



PROGRAMMING MANUAL

GVC1 CONTROLLER SOFTWARE

SUPERCEDES
PROGRAMMING INSTRUCTIONS
IN SERVICE MANUAL

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Record the Model Number and Serial Number of your machine below.

The Model and Serial numbers are needed to obtain quick service and parts information for your machine.
The numbers are available on the identification plate located on the backside of the cabinet of the machine.

MODEL NUMBER: _____

SERIAL NUMBER: _____

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. To exit Service Mode, press the Service Mode Button or push the * 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**.*

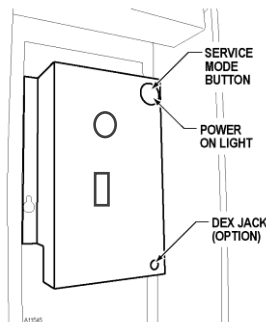


Figure 2.A Controller—
Inside Door Mounted

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

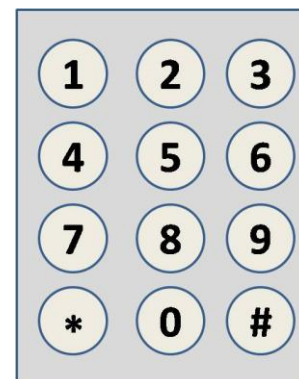



Figure 3: Keypad

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 or Error code **
2.	Press 1 and begin depositing coins	At least 15 of each denomination
3.	Press * 2 times to exit	0.00

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

TUBE DISPENSE


STEP		DISPLAY
1.	Press Service Mode Button 	Motor count or Error code **
2.	Press 1 to dispense dollar coin	1.00
3.	Press 2 to dispense quarters	0.25
4.	Press 3 to dispense dimes	0.10
5.	Press 4 to dispense nickels	0.05
6.	Press * 2 times to exit	0.00

****NOTE: Whenever the Service Mode button is pressed, the resulting display will be either the Motor Count Number or an Error Code.**

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 	--
2.	Press 2 then wait.	--
3.	Press * to exit.	0.00


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 	--
2.	Press 3	OPtn
3.	Press 1 to view current setting	Frcn
4.	Press 1 to toggle ON or OFF	FrcY
5.	Press # to save setting	FrcY
6.	Press * 3 times to exit	0.00

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 	--
2.	Press 3	OPtn
3.	Press 2	ESCY
4.	Press 2 to toggle ON or OFF	ESCn
5.	Press # to save setting	ESCn
6.	Press * 3 times to exit.	0.00

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 	--
2.	Press 3	OPtn
3.	Press 3	NULn
4.	Press 3 to toggle ON or OFF	NULY
5.	Press # to save setting.	NULY
6.	Press * 3 times to exit.	0.00

- 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 **whole machine** 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**" WILL BE ON THE DISPLAY.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 3	OPtn
3.	Press 4	FrEn
4.	Press 4 to toggle ON or OFF	FrEY
5.	Press # to save setting.	FrEy
6.	Press * 3 times to exit	FREE

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	OPtn
3.	Press 5	FChn
4.	Press 5 to toggle ON or OFF	FChY
5.	Press # to save setting.	FChY
6.	Press * 3 times to exit	0.00

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 	--
2.	Press 3	OPtn
3.	Press 6	oPt
4.	Press 3 to toggle ALL ON/OFF	ALLY
5.	Press # to save	ALLn
6.	Press * 3 times to exit	0.00

3.6.2 Optics by Row

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 3	OPtn
3.	Press 6	oPt
4.	Press 2 to enter Row	ro-
5.	Press 1 to toggle ON/OFF	ro1Y
6.	Press # to save	ro1Y
7.	Press * to enter another Row or 3 times to exit	0.00

3.6.1 Optics by Item

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 3	OPtn
3.	Press 6	oPt
4.	Press 1 to enter Item	--
5.	Press 1 to toggle ON/OFF	12 n
6.	Press # to save	12 n
7.	Press * to enter another item or 3 times to exit	0.00

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.

IVEND™ CYCLE

For 5 milliseconds at the start of a vend, the iVend™ optical sensor will be checked to make sure it is not blocked, damaged, or disconnected.

If blocked, damaged or disconnected - the normal home-switch-vend cycle will be used and the optical sensors will be ignored. Both the vend motor and a vend timeout timer are 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 ALTERNATE SELECTION** is displayed. The customer can then press selection buttons to activate another motor, or press the Coin Return button.

NOTE: Force Vend is overridden under this vend cycle.







If not blocked, damaged or disconnected - the iVend™ Sensor System is used. The vend motor and a 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 another vend time out timer while continuing to monitor the optical sensor.
 - ✓ If a product is detected during this second cycle, the motor will be stopped immediately. The vend is considered successful. The 2nd Vend accounting counter is increased by 1.
 - ✓ If a product is not detected before the motor reaches the home-switch position, the vend motor is stopped and for 2 seconds the controller continues to monitor the optical sensor for product delivery. If a product is detected, the vend is considered successful. The 2nd Vend accounting counter is increased by 1.
 - ✓ if no product is detected, the selection is sold out. Such as state will trigger the display of the **MAKE ALTERNATE SELECTION** message. The amount of credit is displayed. The customer can press selection buttons to activate this or another motor or press the Coin Return button
 - If after 10 seconds there is no home-switch signal and no product is detected, the vend failed. The vend motor is shut down and **MAKE ALTERNATE SELECTION** is displayed. The customer can press selection buttons to activate another motor or press the Coin Return button.

3.7 POINT OF SALE MESSAGE (POS)

Turn OFF (or ON) the default display message.

NOTE: The display message for a drink machine is "ICE COLD". All others the message is 0.00






STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	OPtn
3.	Press 	POSY
4.	Press  to toggle ON or OFF.	POSn
5.	Press  to save setting.	POSn
6.	Press  3 times to exit.	0.00

3.8 SETPOINT

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


- | | | |
|-----------------|---------------------------------|------------------|
| • Frozen -10F | • Bottom Zone 36F | • SZ Frozen -10F |
| • Slackened 15F | • Top Zone 62F (not changeable) | • SZF-2 -12F |
| • Cold 36F | • Delta 6F (not changeable) | • SZF-5 -15F |
| • Chilled 62F | • MZF (Upper 36F, Lower -10F) | • SZ Cold 36F |
| • Snack N/A | • MZF-2 (Upper 36F, Lower -12F) | • SZ Cold 1 35F |
| • Dual Zone: | • MZF-5 (Upper 36F, Lower -15F) | |

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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	OPtn
3.	Press  to view/change machine temperature	36
4.	Press  to save	36
5.	Press  2 times to exit	0.00

3.9 KEYPAD BACKLIGHT

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


STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 3	OPtn
3.	Press 9 to view setting.	bL 3
4.	Press 9 repeatedly to change setting. Note: 0=Off, 1=Low, 2=Med, 3=High, 4=Max	bL 0
5.	Press # to save	bL 0
6.	Press * 3 times to exit.	0.00

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 	--
2.	Press 3	OPtn
3.	Press 0	drP3
4.	Press 0 to toggle for settings 1-10.	drP6
5.	Press # to save.	drP6
6.	Press * 3 times to exit.	0.00

4 CONFIGURATION

This menu allows access to the following features:


- Item (can/bottle)
- Row (snack/can/bottle)
- All (snack/can/bottle)
- Space to Sales (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. Consult the machine service manual for specific settings.

NOTE: the can and bottle settings are for machines utilizing column loaded product only.

4.1 ALL







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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 3	ALL...SnAc
4.	Press 3 to toggle Snack, Can, Bottle.	CAn
5.	Press # to save	CAn
6.	Press * 3 times to exit.	0.00

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 10 seconds concludes.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	CBS
3.	Press 	RO-
4.	Enter row number on keypad.	8 bott
5.	Press  again to toggle from Can, Bottle or Snack	
6.	Press  to save.	bott
7.	Press  3 times to exit.	0.00

4.3 ITEM







Provides the option of designating items that will contain cans, bottles. The entire machine or row must be set first.

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 	--
2.	Press 	CBS
3.	Press 	--
4.	Enter item number on keypad.	81 CAn
5.	Press  again to toggle from Can, Bottle	
6.	Press  to save.	CAn
7.	Press  3 times to exit.	0.00

4.6 SPACE TO SALES (STS)









For can and bottle machines using two column motors for selection numbers 10 and 11. Consult the can and bottle machine manual for more information.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	CBS
3.	Press 	StSn
4.	Press 	StSY
5.	Press  to save.	StSY
6.	Press  3 times to exit.	0.00


4.8 TIME/DATE

Sets the time and date for timed operations.


4.8.1 YEAR

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	CBS
3.	Press 	dAtE
4.	Press 	YEAr
5.	Press  to see year	****
6.	Press  to edit year	****
7.	Press  to save.	****
8.	Press  4 times to exit	0.00

4.8.2 MONTH

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 8	dAtE
4.	Press 2	nth
5.	Press # to see month	**
6.	Press # to edit month	**
7.	Press # to save.	**
8.	Press * 4 times to exit	0.00

4.8.3 DAY


STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 8	dAtE
4.	Press 3	dAY
5.	Press # to see day	**
6.	Press # to edit day	**
7.	Press # to save.	**
8.	Press * 4 times to exit	0.00

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 08.05
 01:15 p.m. = TIME 13.15
 11:45 p.m. = TIME 23.45

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 8	dAtE
4.	Press 4 for Time	00:00
5.	Press # to edit	14:30
6.	Press # to save	14:30
7.	Press * 4 times to exit	0.00

4.8.5 Daylight

Savings Time







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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 8	dAtE
4.	Press 5 for Daylight Savings menu	dSno
5.	Press 5 to toggle between settings	dsAU dsEU dsUS
6.	Press # to save	dsUS
7.	Press * 4 times to exit	0.00

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 is applied to ALL (whole machine). If the requirements are violated then the whole machine will be shut down.

4.9.1 HS "All"

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	CBS
3.	Press 	HS n
4.	Press  to toggle HS ON/OFF (default is ON)	HS Y
5.	Press  to save	HS Y
6.	Press  4 times to exit	0.00







4.0 ADVANCED CONFIGURATION

The following menus are available under this option:

- Beep Enable
- Optics Disables
- Motor Type
- Password
- Set Defaults
- Machine type refrigerati







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 	--
2.	Press 	CBS
3.	Press 	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press  to toggle Beep ON/OFF	bEPY
6.	Press  to save	bEPn
7.	Press  4 times to exit	0.00


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 	--
2.	Press 	CBS
3.	Press 	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press  to toggle Optics Disables ON/OFF	OPdn
6.	Press  to save	OPdY
7.	Press  4 times to exit	0.00

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 	--
2.	Press 4	CBS
3.	Press 0	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press 3 to toggle from 2 or 3 wire motors	tYP2
6.	Press # to save	tYP2
7.	Press * 4 times to exit	0.00

4.0.4 TALKER (NOT AVAILABLE)

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 VendNet Technical Service at 1-800-833-4411 for help.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 4	CBS
3.	Press 0	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press 5 for Password menu	2314
6.	Press # to edit	2314
7.	Press # to save	****
8.	Press * 4 times to exit	0.00

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 	--
2.	Press 4	CBS
3.	Press 0	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press 6	Init
6.	Press 6	rSt?
7.	Press 0	RESE
8.	Press * 4 times to exit	0.00


4.0.7 TEMP

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

STEP		DISPLAY
1.	Press Service Mode Button 	- -
2.	Press 4	CBS
3.	Press 0	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press 7 to edit Refrigeration Type. Default is Snack	SnAc CoLd SLAC FrZn dual chLL
6.	Press # to save	COLD
7.	Press * 4 times to exit	0.00

4.0.8 . SELECTION STYLE

NOTE: If 3 digit selection style is chosen, press ***** or **#** to get temperatures.

STEP		DISPLAY
1.	Press Service Mode Button 	- -
2.	Press 4	CBS
3.	Press 0	PASS
4.	Enter Password (default 2314)	ACFG
5.	Press 8	????
6.	Press 8 to toggle through selections */# (default) 2 d e 2 d 40 3 dig	????
7.	Press # to save	????
8.	Press * 4 times to exit	0.00

5 PRICING

This menu allows these methods for assigning prices to selections:

- 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






The maximum price that can be set is \$99.99

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 	- -
2.	Press 	Prc
3.	Press  to enter price	ALL
4.	Enter new price	0.50
5.	Press  to save	0.50
6.	Press  3 times to exit.	0.00

5.2 ROW

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






Time Saving Tip:

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 	- -
2.	Press 	Prc
3.	Press 	ro -
4.	Enter row number and price <i>Example: Top row=1, row below top row=2, etc. Program will automatically go to the next Row.</i>	0.50
5.	Press  to save.	0.50
6.	Press  3 times to exit	0.00

5.3 ITEM

This menu allows price setting by each selection item.

STEP		DISPLAY
1.	Press Service Mode Button 	- -
2.	Press 	Prc
3.	Press 	- -
4.	Enter Item and price	\$0.50
5.	Press  to save. The program will automatically go to the next selection number.	\$0.50
6.	Press  3 times to exit.	0.00








5.4 VALUE COUPON

Allows the operator to designate the values of "free vend" coupons that the validator has been programmed to accept. The GVC control board can have 5 different coupons each having a different value.

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

NOTE: This option requires a coupon programmed validator [MDB version].








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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	Prc
3.	Press 	CPn
4.	Press  for Coupon1	CPn1 0.00
5.	Enter the amount you want coupon to be or leave at 0.00	1.50
6.	Press  to save	1.50
7.	Press  2 times to edit coupon 2-5 or press  5 times to exit menu	0.00

5.5 VALUE TOKEN

This option allows the operator to designate the values of "free vend" tokens accepted by pre-programmed coin mechanism /changer. The GVC control board can set five different tokens with a different value each.

NOTE: This option requires an MDB version coin mechanism/changer.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	Prc
3.	Press 	Thn
4.	Press  for Token 1 The set value will be shown	Thn1 0.00
5.	Enter the value for Token 1	1.00
6.	Press  to save	Thn1
7.	Press  2 times to edit token 2-5 or press  4 times to exit	0.00

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.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 6	Acct
3.	Press 3 The Historical count will be shown	All 10
4.	Press 1 Historical vend count	10
5.	Press 2 Historical cash value	10.00
6.	Press 3 Resettable count	10
7.	Press 4 Reset Cash	10.00
8.	Press 5 Historical Card Value	0.00
9.	Press 6 Historical 2 nd Vends	0
10.	Press 7 Reset. Card	0.00
11.	Press 8 Reset 2 nd Vends	0
12.	Press 0 to clear all selections	Clr?
13.	Press 0 to confirm clear Confirming clear will clear the resettable counts for ALL ITEMS.	Clrd
14.	Press * 4 times to exit	0.00

6.2 ACCOUNTING BY ROW

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 6	Acct
3.	Press 2 to enter row Enter the row number	ro-
4.	Press 1 Hist. Ct.	10
5.	Press 2 Hist. Cash	10.00
6.	Press 3 Reset. Ct.	10
7.	Press 4 Reset Cash	10.00
8.	Press 5 Hist. Card	0.00
9.	Press 6 Hist. 2 nd Vends	0
10.	Press 7 Reset Card	0.00
11.	Press 8 Reset 2 nd vends	0
12.	Press 0 to clear Resettables	Clr?
13.	Press 0 to confirm clear (ONLY For that row)	Clrd
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 	--
2.	Press 6	Acct
3.	Press 1 to enter an item Enter the item number	-- 14
4.	Press 1 Hist. ct.	10
5.	Press 2 Hist. cash	10.00
6.	Press 3 Reset. Ct..	10
7.	Press 4 Reset. Cash	10.00
8.	Press 5 Hist. Card	0.00
9.	Press 6 Hist 2 nd vends	0
10.	Press 7 Reset. Card	0.00
11.	Press 8 Reset 2 nd vends	0
12.	Press 0 to clear Resettables (ONLY for that item)	Clr?
13.	Press 0 to confirm clear	Clrd 0.00

7 ADVANCED OPTIONS

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

- Discount
- Free Vend Rate
- Exact Change
- Unconditional Acceptance
- Max Change
- 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"


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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 7	PASS
3.	Enter Password (default 2314)	AdV
4.	Press 1	dISC
5.	Press 3 to toggle All ON/OFF	ALLY
6.	Press # to save	ALLY
7.	Press * to exit to Discount	dISC
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)	ALLn

10.	Press # to save	ALLY
11.	Press 2 to toggle Mon. ON/OFF	nonY
12.	Press # to save	nonY
13.	Press 3 to toggle Tues ON/OFF	tuEY
14.	Press # to save	tuEn
15.	Press 4 to toggle Wed ON/OFF	UEdY
16.	Press # to save	UEdY
17.	Press 5 to toggle Thurs. ON/OFF	thuY
18.	Press # to save	thuY
19.	Press 6 to toggle Fri On/OFF	FrIY
20.	Press # to save	FrIn
21.	Press 7 to toggle Sat On/OFF	SAtY
22.	Press # to save	SAtY
23.	Press 8 to toggle Sun ON/OFF	SunY
24.	Press # to save	Sunn
25.	Press * 2 times to exit to Discount menu	dISC
26.	Press 5 2 times to enter Start Time menu	Strt 00:00
27.	Press # to edit	08:00
28.	Press # to save	08:00
29.	Press * to exit to Start Time	Strt
30.	Press 6 2 times to enter Stop Time menu	Stop 23:59
31.	Press # to edit	10:00
32.	Press # to save	10:00
33.	Press * 2 times to exit to Discount menu	dISC
34.	Press 7 to enter Disc. Value	0.50
35.	Press # to save	0.50
36.	Press * 2 times to exit to discount menu	dISC
37.	Press 9 to toggle enable ON/OFF	En n
38.	Press # to save	En Y
39.	Press * 4 times to exit to Sales Mode	0.00

7.1.2 DISCOUNT BY ROW


If Everyday
"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
	Enter Password (default 2314)	AdV
	Press 1	dISC
3.	Press 3 to toggle and turn off All	ALLn
4.	Press # to save	ALLn
5.	Press * to exit to Discount menu	dISC
6.	Press 2 for Row Enter row	ro-
7.	Press 2 to toggle OFF/ON	ro1Y
8.	Press # to save	ro1Y
9.	Press * once to enter another row or 2 times to go to Discount menu	dISC
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)	ALLY
12.	Press # to save	ALLY
13.	Press 2 to toggle Mon. ON/OFF	nonY
14.	Press # to save	nonY
15.	Press 3 to toggle Tues ON/ OFF	tuEY
16.	Press # to save	tuEn
17.	Press 4 to toggle Wed ON/OFF	UEdY
18.	Press # to save	UEdY
19.	Press 5 to toggle Thurs. ON/OFF	thuY

Discount by Row Cont.		DISPLAY
20.	Press # to save	thuY
21.	Press 6 to toggle Fri. ON/OFF	Fril
22.	Press # to save	FrIn
23.	Press 7 to toggle Sat. ON/ OFF	SAtY
24.	Press # to save	SAtY
25.	Press 8 to toggle Sun. ON/OFF	SunY
26.	Press # to save	Sunn
27.	Press * 2 times to exit to Discount menu	dISC
28.	Press 5 2 times to enter Start Time menu	Strt 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	Strt
32.	Press # to edit	Stop 23:59
33.	Press # to save	10:00
34.	Press * 2 times to exit to Discount menu	10:00
35.	Press 7 to enter disc. Value	dISC
36.	Press # to save	0.50
37.	Press * 2 times to exit to Discount menu	dISC
38.	Press 9 to toggle ON/OFF	En Y
39.	Press # to save	En Y
40.	Press * 4 times to exit	0.00

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 	--
2.	Press 7	PASS
3.	Enter Password (default 2314)	AdV
4.	Press 1	dISC
5.	Press 3 to toggle ALL items OFF	ALLn
6.	Press # to save	ALLn
7.	Press 1 for Item Enter item number	-- 24 n
8.	Press 1 to toggle Item ON	24 Y
9.	Press # to save	24 Y
10.	Press 4 to enter Day menu	dAY
11.	Press 1 to toggle Everyday ON/OFF (To set individual days Everyday must be OFF)	ALLY
12.	Press # to save	ALLY







DISCOUNT BY ITEM cont.		DISPLAY
13.	Press 3 to toggle Tues ON/OFF	tuEn
14.	Press # to save	tuEn
15.	Press 4 to toggle Wed ON/OFF	UEdY
16.	Press # to save	UEdY
17.	Press 5 to toggle Thurs. ON/OFF	thuY
18.	Press # to save	thuY
19.	Press 6 to toggle Fri On/OFF	FrIn
20.	Press # to save	FrIn
21.	Press 7 to toggle Sat On/OFF	SAtY
22.	Press # to save	SAtY
23.	Press 8 to toggle Sun ON/OFF	Sunn
24.	Press # to save	Sunn
25.	Press * 2 times to exit to Discount menu	dISC
26.	Press 5 2 times to enter Start Time menu	Strt 00:00
27.	Press # to edit	08:00
28.	Press # to save	08:00
29.	Press * to exit	Strt
30.	Press 6 2 times to enter Stop Time menu	Stop 23:59
31.	Press # to edit	10:00
32.	Press # to save	10:00
33.	Press * 2 times to exit to Discount menu	dISC
34.	Press 7 to enter Disc. Value	0.50
35.	Press # to save	0.50
36.	Press * 2 times to exit to Discount menu	dISC
37.	Press 9 to toggle Enable ON/OFF	En n
38.	Press # to save	En Y
39.	Press * 4 times to exit	0.00

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 	--
2.	Press 	PASS
3.	Enter Password (default 2314)	****
4.	Press  to enter Free Vend Rate menu	rate 0
5.	Press  to edit	10
6.	Press  to save	10
7.	Press  3 times to exit	0.00

7.4 EXACT CHANGE






The amount of coins left in coin mech when "Use Exact Change" light comes on

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	PASS
	Enter Password (default 2314)	AdV
3.	Press 	EChG 0.00
4.	Enter the amount for exact change	0.00
5.	Press  to save	1.00
6.	Press  3 times to exit.	0.00

NOTE: If "Unconditional Acceptance" 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


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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	PASS
3.	Enter Password (default-2314)	AdV
4.	Press 	UnAc 0.00
5.	Enter the amount	5.00
6.	Press  to save	5.00
7.	Press  3 times to exit.	0.00

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.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 7	PASS
	Enter Password (default is 2314)	AdV
3.	Press 6	ChG
4.	Press 1 to toggle ON/OFF	ChGY
5.	Press # to save	ChGY
6.	Press 2 to enter dollar amt.	50.00
7.	Press # to save	ChG
8.	Press * 3 times to exit.	0.00

Note: The highest value that can be set for the maximum price is \$99.95.


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 **"no SaLE... tIL..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. 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 	--
2.	Press 7	PASS
3.	Enter Password (default is 2314)	AdV
4.	Press 8	Shdn
5.	Press 1 for Interval1	Int1
6.	Press 3 to toggle All ON	AllY
7.	Press # to save	AllY
8.	Press * to exit	Int1
9.	Press 4 to enter day menu	day
10.	Press 1 to toggle Everyday ON/OFF (To program individual days turn Everyday OFF)	ALLY
11.	Press # to save	ALLY
12.	Press 2 to toggle Mon ON/OFF	nonY
13.	Press # to save	nonY
14.	Press 3 to toggle Tues ON/OFF	tuEn
15.	Press # to save	tuEn
16.	Press 4 to toggle Wed ON/OFF	UEdn
17.	Press # to save	UEdn


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

To set individual
days use steps
13-27

SHUTDOWN ALL cont.		DISPLAY
18.	Press 5 to toggle Thurs. ON/OFF	thuY
19.	Press # to save	thuY
20.	Press 6 to toggle Fri. ON/OFF	FrIY
21.	Press # to save	FrIY
22.	Press 7 to toggle Sat. ON/OFF	SAtn
23.	Press # to save	SAtn
24.	Press 8 to toggle Sun. ON/OFF	SunY
25.	Press # to save	SunY
26.	Press * 2 times to exit	Int1
27.	Press 5 2 times to enter start time menu	Strt 00:00
28.	Press # to edit	08:00
29.	Press # to save	08:00
30.	Press * to exit	Strt
31.	Press 6 2 times to enter stop time menu	Stop 23:59
32.	Press # to edit	10:00
33.	Press # to save	10:00
34.	Press * 2 times to exit to Interval menu	Int1
35.	Press 8 to toggle Lighting ON/OFF Lighting ON -turns off lights during shutdown Lighting OFF - leaves lights On during shutdown	Litn
36.	Press # to save	LitY
35.	Press 9 to toggle enable ON/OFF	En n
36.	Press # to save	En Y
37.	Press * 2 times to edit Interval 2-4	Shdn
38.	Press * 3 times to exit to sales mode	0.00

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 	--
2.	Press 7	PASS
3.	Enter Password (default is 2314)	AdV
4.	Press 8	Shdn
5.	Press 1 for Interval1	Int1
6.	Press 2 to set Row Enter Row	ro - ro1n
7.	Press 1 to toggle Row ON	ro1Y
8.	Press # to save	Ro1Y

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

9.	Press * to enter another Row or press * 2 times to return to Interval menu	Int1
10.	Press 4 to enter Day menu	Day
11.	Press 1 to toggle Everyday ON/OFF (To program individual days turn everyday OFF)	ALLY
12.	Press # to save	ALLY
13.	Press 2 to toggle Mon ON/OFF	nonY
14.	Press # to save	nonY
15.	Press 3 to toggle Tues ON/OFF	tuEn
16.	Press # to save	tuEn
17.	Press 4 to toggle Wed ON/OFF	UEdn
18.	Press # to save	UEdn
19.	Press 5 to toggle Thurs. ON/OFF	thuY
20.	Press # to save	thuY
21.	Press 6 to toggle Fri. ON/OFF	FrIY
22.	Press # to save	FrIY
23.	Press 7 to toggle Sat. ON/OFF	SAtn
24.	Press # to save	SAtn
25.	Press 8 to toggle Sun. ON/OFF	SunY
26.	Press # to save	SunY
27.	Press * 2 times to exit	Int1
28.	Press 5 2 times to enter start time menu	Strt 00:00
29.	Press # to edit	08:00
30.	Press # to save	08:00
31.	Press * to exit	Strt
32.	Press 6 2 times to enter stop time menu	Stop 23:59
33.	Press # to edit	10:00
34.	Press # to save	10:00
35.	Press * 2 times to exit to Interval menu	Int1
36.	Press 9 to toggle enable ON/OFF	En n
37.	Press # to save	En Y
38.	Press * 2 times to edit Interval 2-4	Shdn
39.	Press * 3 times to exit to sales mode	0.00

7.8.1 SHUTDOWN BY ITEM

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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 	PASS
3.	Enter Password (default is 2314)	AdV
4.	Press 	Shdn
5.	Press  for Interval1	Int1
6.	Press  to enter item	10 n
7.	Press  to toggle ON/OFF	10 Y
8.	Press  to save	10 Y
9.	Press  to enter another item or press  2 times for Interval1 menu	Int1
10.	Press  to enter day menu	day
11.	Press  to toggle Everyday ON/OFF (To program individual days turn Everyday OFF)	ALLn
12.	Press  to save	ALLn
13.	Press  to toggle Mon ON/OFF	nonY
14.	Press  to save	nonY
15.	Press  to toggle Tues ON/OFF	tuEn
16.	Press  to save	tuEn
17.	Press  to toggle Wed ON/OFF	UEdn
18.	Press  to save	UEdn
19.	Press  to toggle Thurs. ON/OFF	thuY
20.	Press  to save	thuY
21.	Press  to toggle Fri. ON/OFF	FrlY
22.	Press  to save	FrlY
23.	Press  to toggle Sat. ON/OFF	SAtn
24.	Press  to save	SAtn
25.	Press  to toggle Sun. ON/OFF	SunY
26.	Press  to save	SunY
27.	Press  2 times to exit	Int1
28.	Press  2 times to enter Start Time menu	Strt 00:00
29.	Press  to edit	08:00
30.	Press  to save	08:00
31.	Press  to exit	Strt

SHUTDOWN BY ITEM cont.		DISPLAY
32.	Press 6 2 times to enter Stop Time menu	Stop 23:59
33.	Press # to edit	10:00
34.	Press # to save	10:00
35.	Press * 2 times to exit to Interval menu	Int1
36.	Press 9 to toggle enable ON/OFF	En Y
37.	Press # to save	En Y
38.	Press * 2 times to edit Interval 2-4	Shdnt
39.	Press * 3 times to exit to Sales mode	0.00


7.9 ENERGY SAVINGS

This function allows you to set a **refrigerated** machine to run at a higher than normal temperature during programmable periods and programmable days of the week.

NOTE: Energy Savings runs *OUTSIDE* of the HS Standards. There are two programmable intervals.

Default password
2314

If Everyday "ON" is
your setting skip to
step # 23
To set individual
days use steps 8-22

STEP		DISPLAY
1.	Press Service Mode Button 	- -
2.	Press 7	PASS
3.	Enter Password	AdV
4.	Press 9	EnrG
5.	Press 1 for Interval1(to edit Interval 2, Press 2)	Int1/ or Int2
6.	Press 4 to enter Day menu	day
7.	Press 1 to toggle Everyday ON/OFF (To program individual days turn everyday OFF)	ALLn
8.	Press # to save	ALLn
9.	Press 2 to toggle Mon ON/OFF	nonY
10.	Press # to save	nonY
11.	Press 3 to toggle Tues ON/OFF	tuEn
12.	Press # to save	tuEn
13.	Press 4 to toggle Wed ON/OFF	UEdn
14.	Press # to save	UEdn
15.	Press 5 to toggle Thurs. ON/OFF	thuY
16.	Press # to save	thuY
17.	Press 6 to toggle Fri. ON/OFF	FrIY
18.	Press # to save	FrIY
19.	Press 7 to toggle Sat. ON/OFF	SAtn
20.	Press # to save	SAtn
21.	Press 8 to toggle Sun. ON/OFF	SunY
22.	Press # to save	SunY
23.	Press * 2 times to exit	Int1
24.	Press 5 2 times to enter Start Time menu	Strt 00:00

ENERGY SAVINGS CONT.		DISPLAY
25.	Press # to edit	08:00
26.	Press # to save	08:00
27.	Press * to exit	Strt
28.	Press 6 2 times to enter Stop Time menu	Stop 23:59
29.	Press # to edit	10:00
30.	Press # to save	10:00
31.	Press * 2 times to exit to Interval menu	Int1
32.	Press 7 to enter Storage Temp (default is 62°F)	62F
33.	Press 7 to reset Storage Temp (available range: 36°F to 62°F)	40F
34.	Press # to save	40F
35.	Press * 2 times for INTERVAL main menu	Int1
36.	Press 8 to toggle Lighting ON/OFF Lighting ON-turns off lights during Energy Savings. Lighting OFF- leaves lights On during Energy Savings	LiTn
37.	Press # to save	LiTY
38.	Press 9 to toggle enable ON/OFF	En n
39.	Press # to save	En Y
41.	Press * 3 times to exit to Sales mode	0.00

Optional ->
Default is OFF

8 TEST VEND

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 ■	--
2.	Press 8	--
3.	Press selection number on keypad and wait	10
4.	Repeat step 3 for other selections.	
5.	Press * 3 times to exit.	0.00

NOTE: If Space to Sales is enabled, motors are run by selection number in Space to Sales arrangement. If the machine is iVend™ equipped the test cycle will match the description found in the iVend™ section of the manual.

9 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 ■	--
2.	Press 9 and wait.	
	The motor selection number will display while it is being tested.	**
3.	Press * 3 times to exit.	0.00

NOTE: If Space to Sales is enabled, motors are run by selection number in Space to Sales arrangement. If the machine is iVend™ equipped the test cycle will match the description found in the iVend™ section of the manual.

0 DIAGNOSTIC

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

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 0	dIAG
3.	Press 1 to start test	tEst CtL ChSu oPt drP Cn ChG biLL
4.	Press * 3 times to exit.	0.00

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 	--
2.	Press 0	Diag
3.	Press 2	rLY
4.	Press 1 to toggle Relay 1 ON/OFF	rL1n
5.	Press 2 to toggle Relay 2 ON/OFF	rL2n
6.	Press 3 to toggle Relay 3 ON/OFF	rL3n
7.	Press 4 to toggle Relay 4 ON/OFF	rL4n
8.	Press 5 to toggle Relay 5 ON/OFF	rL5n
9.	Press 6 to toggle Relay 6 ON/OFF	rL6n


0.3 LOG

Engineering download for service technician ONLY!

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 1	Diag
3.	Press 3	Log
4.	Press * 3 times to exit	0.00


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 	--
2.	Press 0	Diag
3.	Press 4 to view percentage	10
4.	Press * 3 times to exit	0.00


0.5 BILL REJECT RATE

This feature tracks percentage of bills rejected by the validator, and resets when "All" has been cleared

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 0	Diag
3.	Press 5 to view percentage	20
4.	Press * 3 times to exit	0.00


0.6 I VEND ALIGNED

Indicates when iVend™ vend delivery sensors are in alignment

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 0	Diag
3.	Press 6 to check I-vend alignment	"Good" or "No"







0.7 REFRIGERATION LOG

This setting allows logging of the refrigeration temperatures through a laptop (w/appropriate software) and the DEX port in real time.

STEP		DISPLAY
1.	Press Service Mode Button 	--
2.	Press 0	Diag
3.	Press 7	PASS
4.	Enter 2314	Log
5.	Press 1	rFon
6.	Press 1	rFoY
7.	Press # to save	rFoY
8.	Press * 4 times to exit	0.00

0.8 DOOR ALERT

This allows for an alert when the door is left opened on refrigerated units

STEP		DISPLAY
1.	Press Service Mode Button 	Motors (- -)
2.	Press 	Diag
3.	Press 	dorn
4.	Press  to toggle	dorY
5.	Press  to save	dorY
6.	Press  3 times to exit	Sales Mode

NOTE: If further assistance is needed, you may call VendNet[®] at 1(800) 833-4411, and ask for a service representative.

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