

# HealthyYOU™ Vending System Manual

## Operator's Guide



**Model HY900**



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## PART ONE – INTRODUCTION

Congratulations on investing in your new HealthyYOU™ Vending Systems! In this manual, you will find information on how to set up, install, operate and maintain your new vending equipment.

<b>Machine Description</b>	<b>Vending System</b>	<b>Entrée/Side</b>
<b>Model Number</b>	<b>HY900</b>	<b>HY970</b>
<b>Height (in)</b>	72	72
<b>Width (in)</b>	36	16
<b>Depth (in)</b>	28.5	28.5
<b>Weight (lbs)</b>	540	220
<b>Volts (V)</b>	115	115
<b>Frequency (Hz)</b>	60	60
<b>Watts (W)</b>	100	100
<b>Current (A)</b>	3.0	1.0

- The HealthyYOU™ Vending System is intended for indoor use only with a temperature range of 32 to 90° F and a relative humidity of less than 45%.
- The HealthyYOU™ Vending System requires one (1) grounded 110 V power outlet and is equipped with a 5' power cord.
- The HealthyYOU™ Vending System is front ventilated and can be installed flush to the wall. Keep the front ventilation area clear of obstruction and keep the evaporator fins clean.

## **Hardware**

The HealthyYOU™ Vending System package includes:

- 1.) HY900 Snack/Drink Unit
- 2.) HY970 Entrée/Side Dish Unit
- 3.) Front Door Keys – two are provided; please keep one set in a safe place!

## Features and Facts

Your HealthyYOU™ Vending Systems have the following features:

### Change Back

The Vending System does not automatically give a customer change after an item vends. It displays to the customer their credit after a purchase has been made and will require them to press the Coin Release button before their change is dispensed. If a selection is not made in two minutes or the Coin Release button is not pushed, that change is added to your CASH totals and the unit goes back into “Sales” mode, displaying “ENJOY a SNACK and a BEVERAGE”. However, the machine may be set to automatically return any change due after a purchase has been made.

### Coin Release

The Vending System will allow a customer to put money in the machine, decide not to vend something, and get their money back. They simply push the Coin Release button and their change will be dispensed.

### Bill Acceptor

The Vending System has been set up to activate and accept bills based on the amount of coins registered in the coin mechanism. The bill acceptor has been factory preconfigured to accept \$1 and \$5 dollar bills as long as there is sufficient change in the coin mechanism. The operator can select that the bill acceptor also accepts \$10 and/or \$20's, but the coin mechanism must have sufficient change to accept these denominations. Since this Vending System does not dispense dollar bills or dollar coins as change, it is recommended that the factory settings of \$1 and \$5 be left as your default acceptance values.

### Keep Track of Sales and Profits

You have easy access to information regarding your HealthyYOU™ Vending System's sales and vending activity. When entering MENUS mode, enter the sub-menu AUDIT. Use the up/down arrows to navigate through the menus to see Coins In, Bills In, Sales Value, etc. The Vending machine Controller (VMC) keeps a running log of these values. Recording the values will keep track of your sales and profits!

### Drink Section Temperature Readout

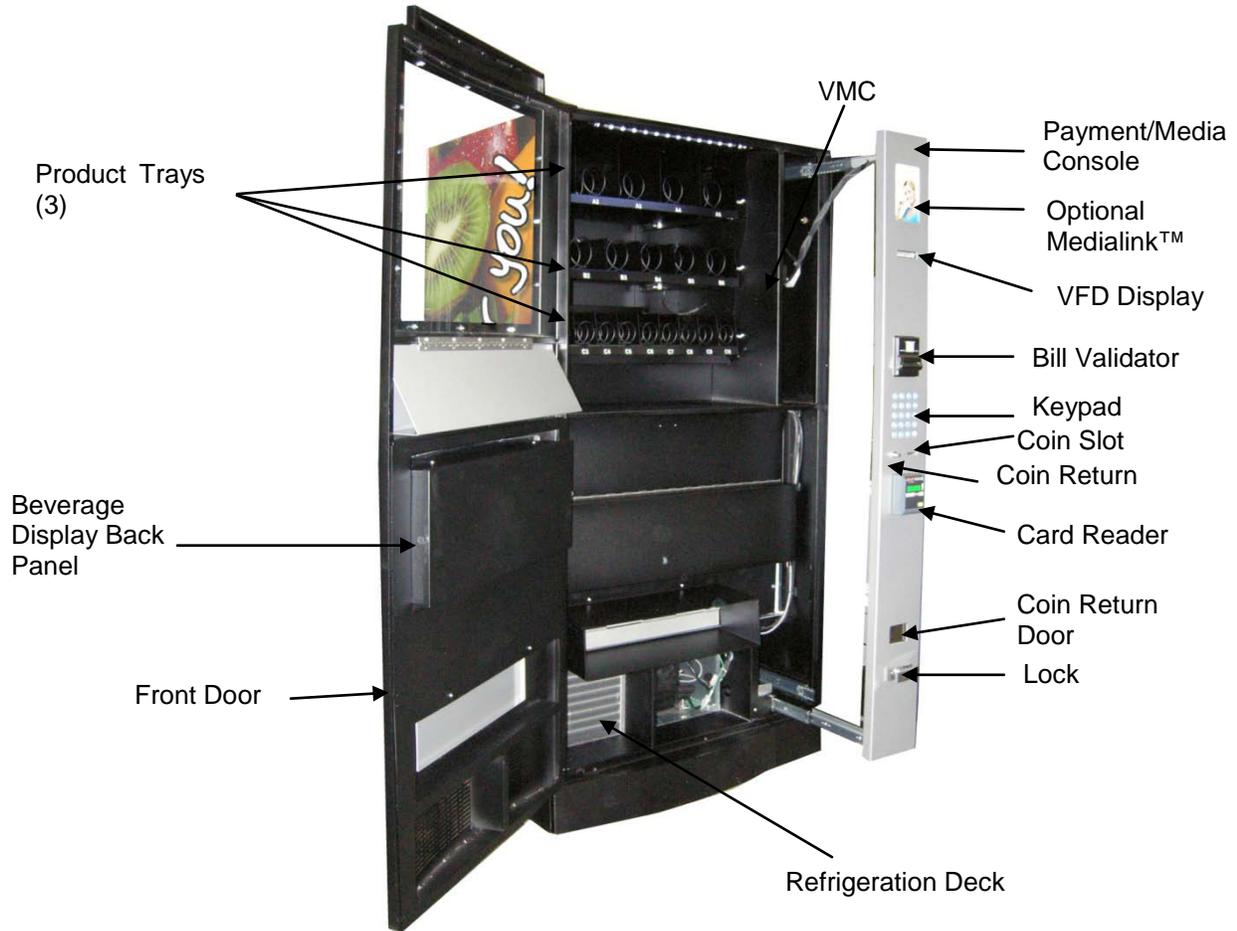
This Vending System gives you the temperature inside your HY900 drink section when the number 10 key on the keypad is pressed. You and your customers can see just how cold the drink section is at any time!

## Tips for the Smooth Operation of Your HealthyYOU™ Vending System

1. The snack rows have **NO** sold out sensors. The fact that the row is visibly empty should deter customers from choosing that selection. If you need to empty a row of snacks, it is easy to get into the trays and simply remove the snacks from between the coils. If you wish to **empty a drink column**, you may want to use the **TEST** function (tE) in "service mode".
2. In order to load coins into or remove coins from the Coin Changer, you **MUST** first enter Settings, Coin Refill menu in **MENUS** mode. It is important to note that **you must always be in MENUS mode when working with the coin changer**. Failure to do so will result in the Vending Machine Controller (VMC) not knowing how much money is in your coin changer which could adversely affect the operation of your HealthyYOU™ Vending System.
3. You may test any snack bin or drink column motor to ensure it is operating properly.

## PART TWO – INSTALLATION

Figure 1 - Interior View and Components



## Unloading the HealthyYOU™ Vending System

Note: The HealthyYOU™ Vending System is heavy and bulky. Use extreme caution and safe practices to perform the unloading and installation process with two people.

1. Cut vinyl straps and remove the clear plastic and cardboard posts from the Vending System (*use care if using a razor*).
2. Using safe lifting practices and two people, “walk” the Vending System off the shipping skid, letting the back of the machine touch the ground first.
3. Holding the machine steady, slide the skid away from the front of the machine.

## Assembly

Remove packing materials, envelopes and boxes from the interior of your HealthyYOU™ Vending System. Remove tape holding down tray latches and wire ties holding down helix coils.

## Location

Caution: If during transportation you have tilted your machine more than 45° you must keep your Vending System unplugged for at least 12 hours after installation at the proper location! The refrigeration unit must settle after movement in order to operate properly. Failing to allow settlement time could damage the refrigeration unit and void your warranty!

Depending upon the location climate, it will take up to 24 hours for the machine to reach its ideal operating temperature.

## Power and Surge Protection

Your HealthyYOU™ Vending System comes with a GFIC (Ground Fault Interrupted Circuit) power cord. When the cord is initially plugged into the 110V grounded outlet, you must press the Reset button on the power cord to initialize the operating phase.

It is recommended that a surge protection device be used on your Vending System. Surge protection devices can be found at many retail hardware and other store locations near you.

## Keypad and Display

The Keypad is touch sensitive. Only light pressure is necessary to activate each number or letter. The Keypad is used by the customer to make their selection, and by the operator to set and test many functions of the machine.

Figure 2



The VFD display shows the customer the amount of money entered into the vendor, and the cost of their selection. It will also display product name and calorie information if you have entered this information via SmartWarePro™. It shows the operator the Service Mode function for setting and testing the various functions of the vendor.

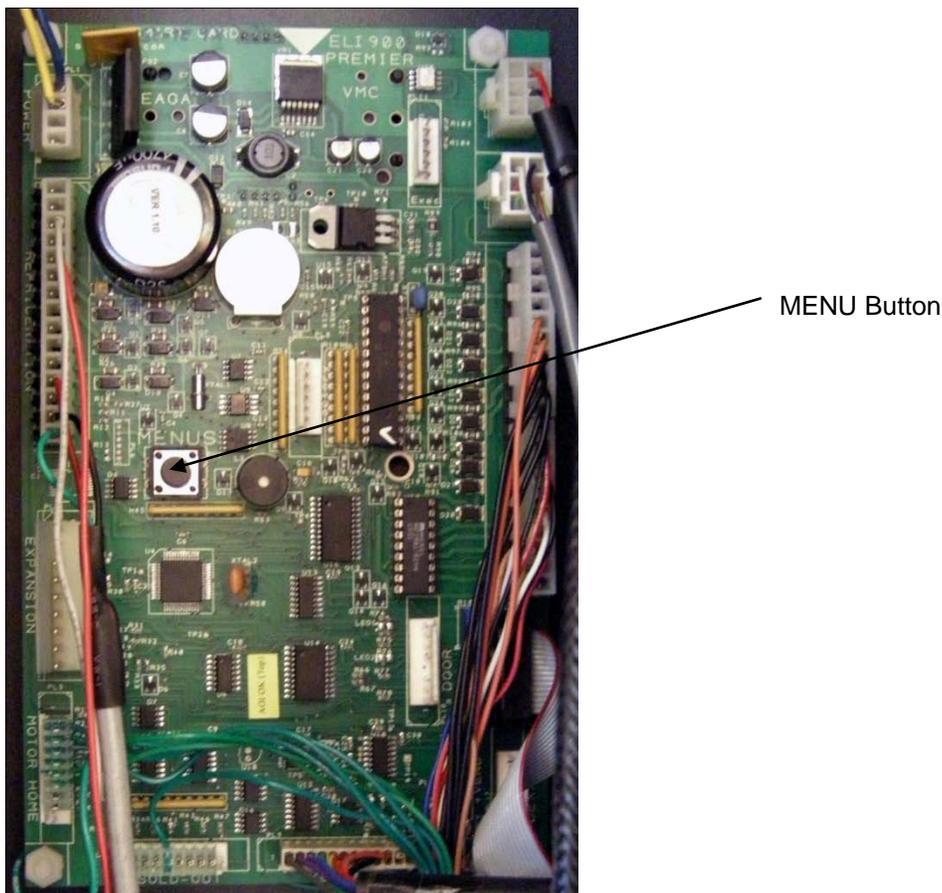
Figure 3 – Display



## Programming

Unlock and open the Front Door to access the Vending machine Controller (VMC), and enter Service Mode by pressing the MENU Button. (Fig. 4)

Figure 4 – VMC and MENU Button



## Service Mode

### Navigation

Use the up and down arrows on the keypad to scroll through the menus.

Use the “F” key on the keypad as you would the Enter key on a computer – to select, confirm, etc.

Use the “G” key on the keypad as described above, to Exit the Menus.

### To Exit Service Mode

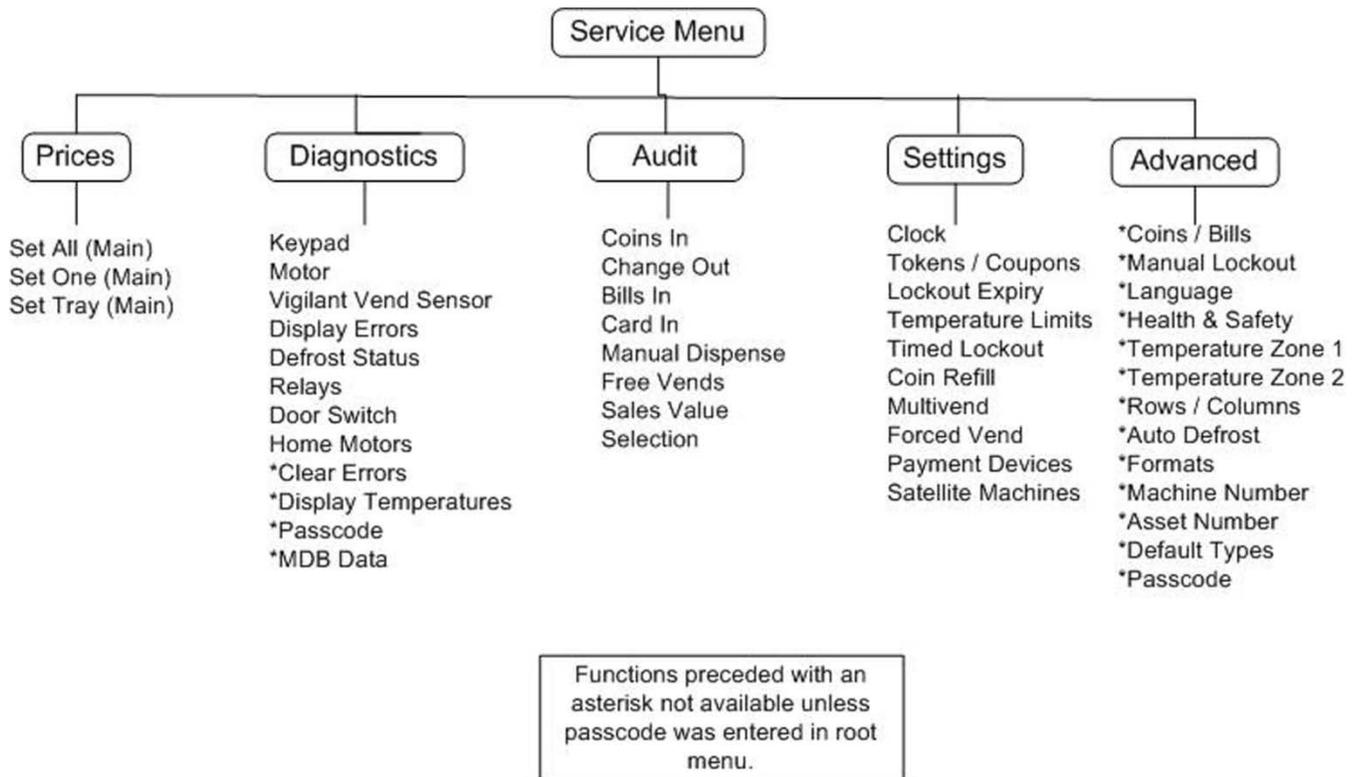
The controller will remain in service mode as long as the user keeps using the keypad to move through the various service mode MENUS. The controller will automatically exit service mode and return to sales mode if any of the following occur:

1. The user is inactive for more than 3 minutes
2. The user presses the EXIT key (G).

When service mode is exited the beeper will sound twice and the installed firmware version will be shown on the display for three seconds, then the controller will revert to sales mode.

## Menus – Chart of Service Menu

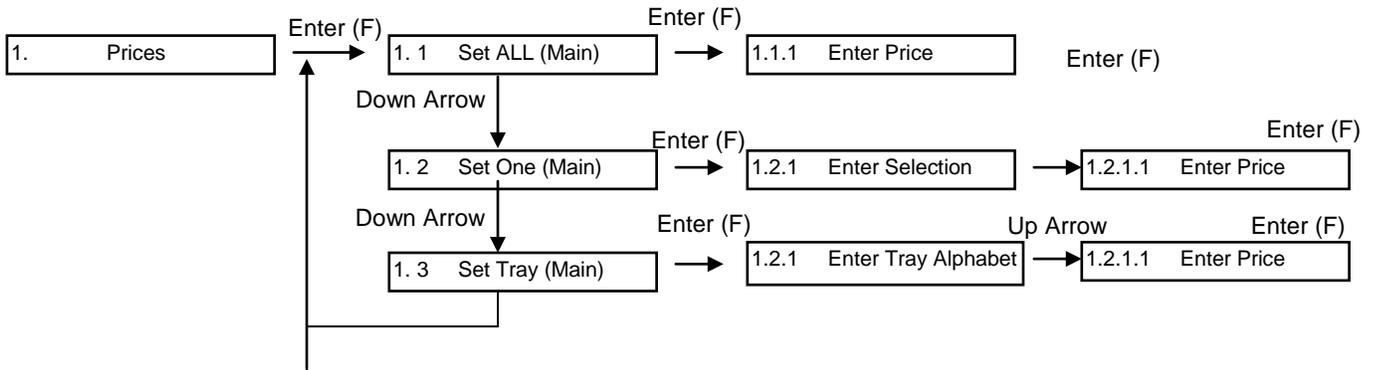
The chart below shows the Menus while in Service Mode:



## Menu – Prices

The Prices Menu allows you to set prices in three different ways – Set ALL, Set ONE, Set Tray. Set ALL will allow you to set all of selections in the machine to the same price. Set ONE will allow you to set one individual selection of your choosing. Set Tray will allow you to set an entire tray to the same price.

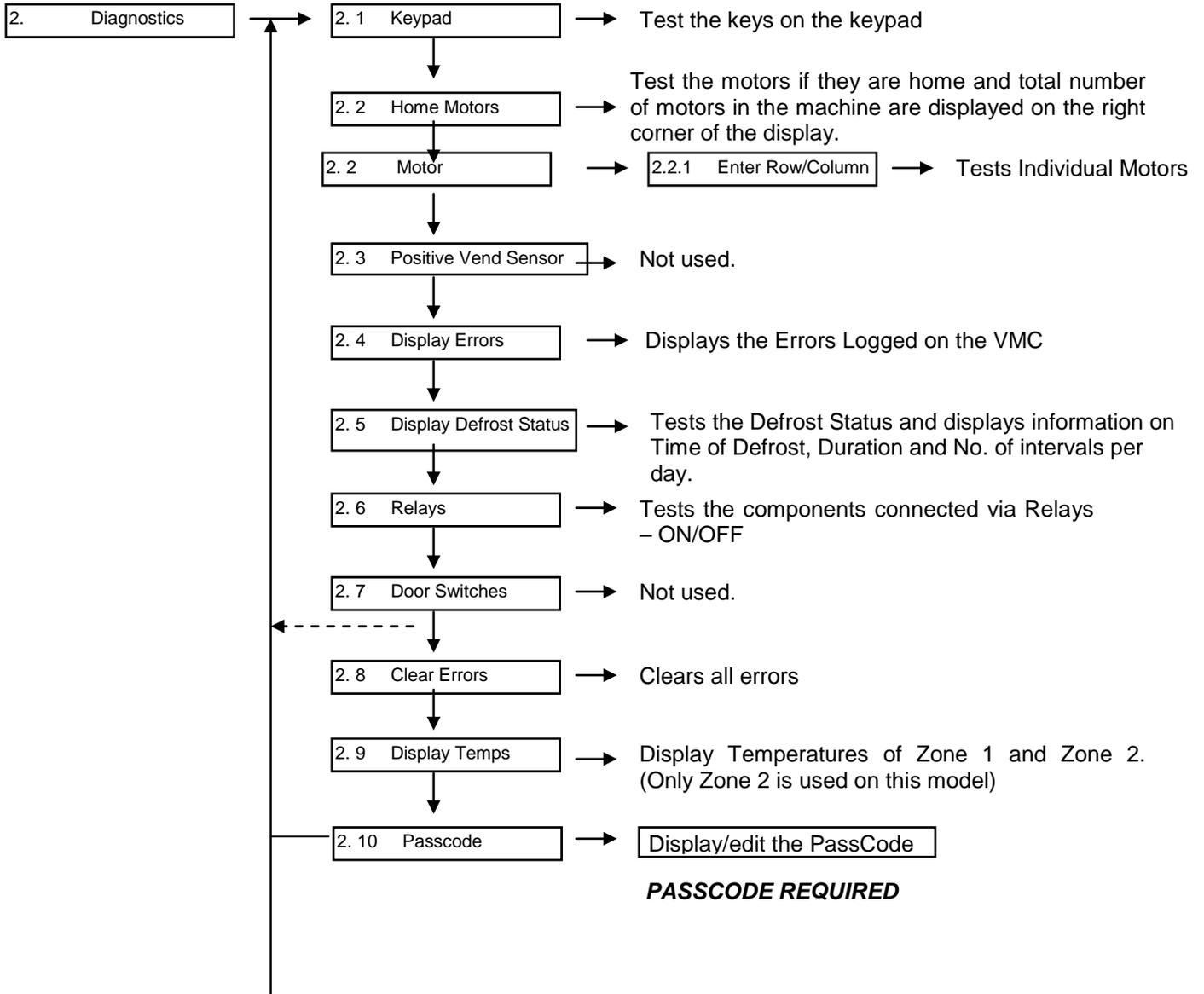
Using these available options will save you time – if the majority of your prices are, for example, set at \$1, use the Set ALL sub-menu to set all prices to \$1. You can then go back and set individual prices for certain selections as needed.



In order to enter the price, Press the corresponding number. For example, if the Price of a Selection is \$0.75, then Press “7” and “5”. Press F to accept the value; G to exit to the main menu. *Note: Discount prices can only be set using a SmartCard.*

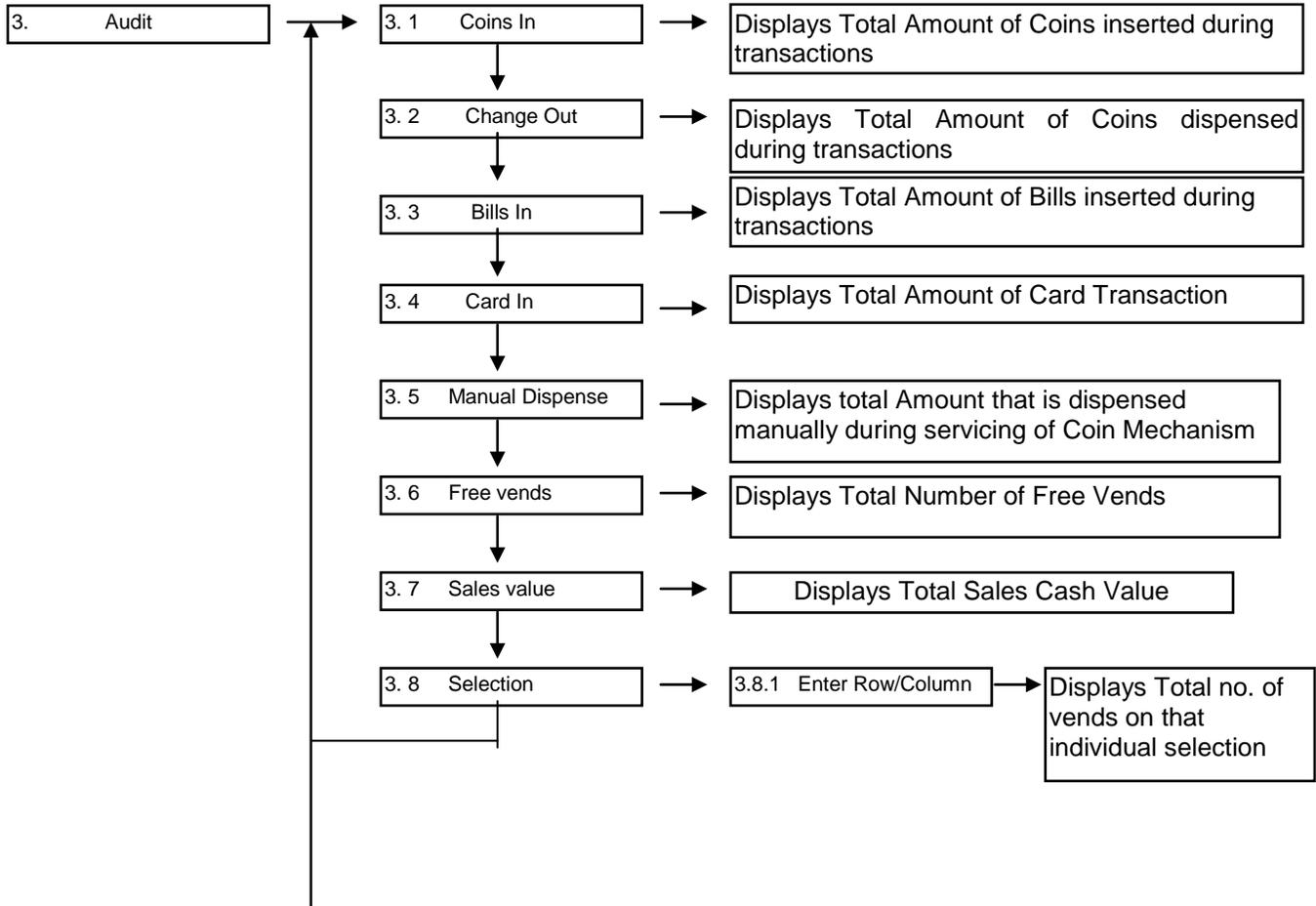
## Menu – Diagnostics

The Diagnostics Menu is used to test various features of the machine – typically as you are talking with technical Support. Certain critical features of the machine are protected by a passcode provided to the operator to prevent inadvertent modifications to the machine. Your default passcode is 10-10-10-10-10.



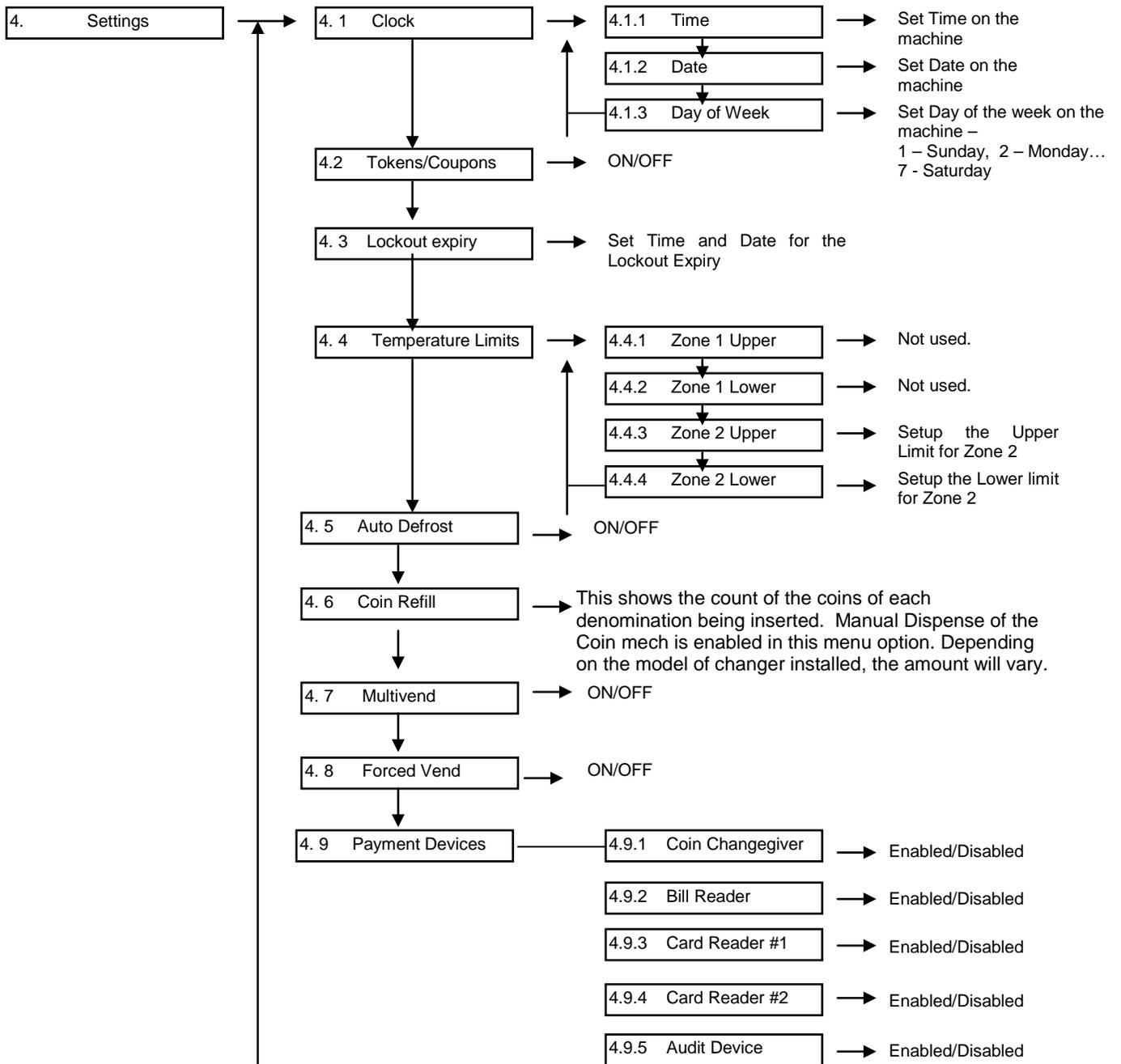
## Menu – Audit

The Audit Menu is used to track the machine operation in all aspects. The industry standard is to keep a continuous total of all audit functions that cannot be set back to zero.



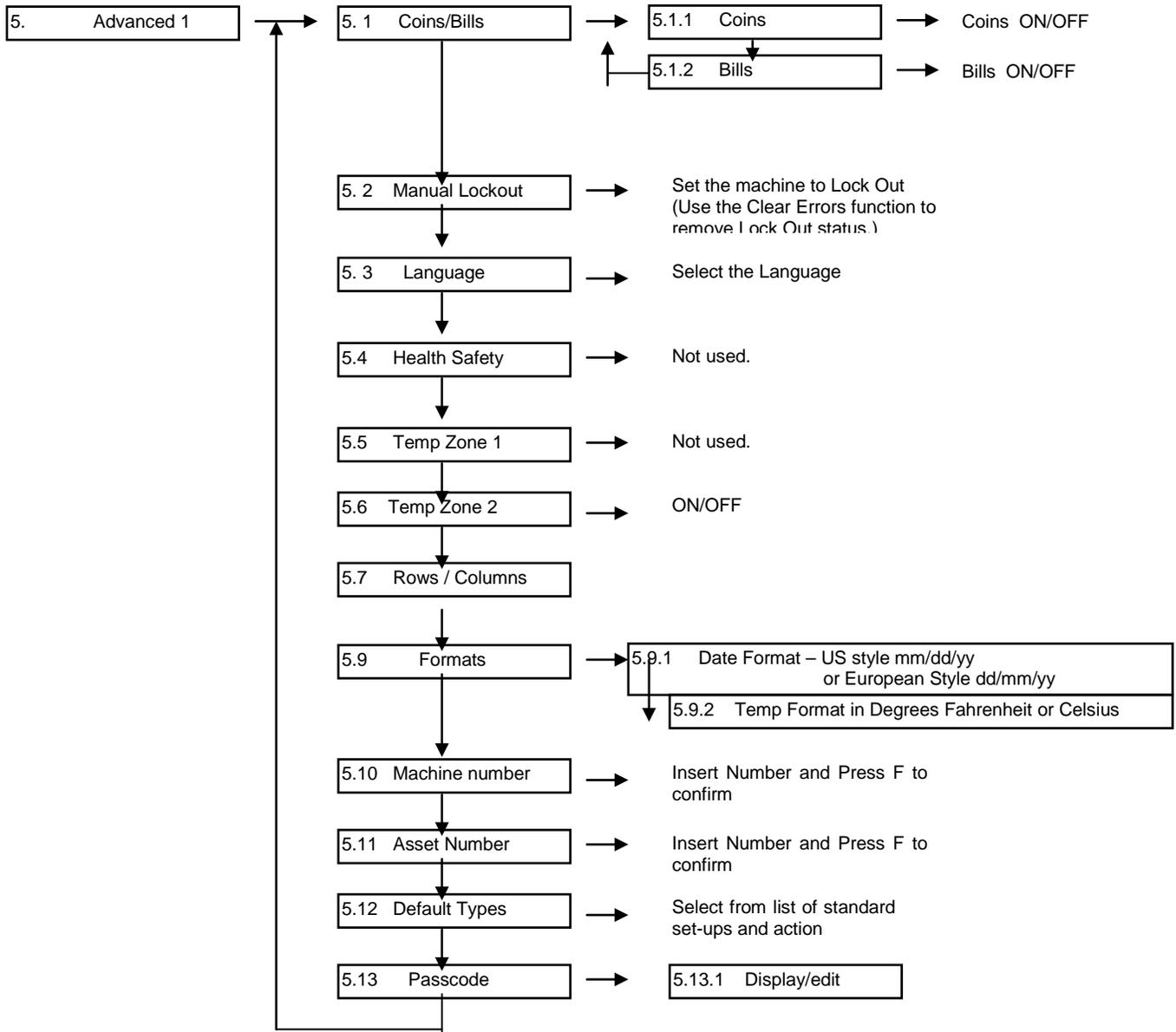
# Menu – Settings

The Settings Menu is used to Setup the features of the machine.



## Menu – Advanced

The Advanced Menu is used to setup the Advanced Settings. Please enter the Passcode in order to access this menu.



## Menu - Exit

Press “G” to Completely Exit from the Service Menus.

## Loading Snacks

Wide products such as Chips bags etc. are loaded in Tray 1. Tray two is for narrower products such as nutritional cookies or nuts. Still narrower products such as Clif™ or Kind™ style bars are loaded in Tray 3. See Figure 5.

Figure 5 – Loading Product

Correct – load product between Helix Coils, resting on the product tray

Helix Coil

Product Tray



Incorrect

## HELIX COIL ADJUSTMENT

If you are required by a location to vend a product of a non-standard size, you may need to order a different helix coil and install it. To replace a helix coil:

1. Remove the Helix Coil from the Coil Driver by lifting the back of the helix coil up off the coil driver. You will need to move the bottom of the helix coil clear of the coil driver to completely remove the helix coil. See Figure 6
2. Align the new helix coil end with the front of the tray, which gives it better contact with the product. The position of the helix coil in the coil driver is adjustable to assist you in aligning the new coil at the front of the tray. See Figure 6.

This coil adjustment can be done for all the selections in Vending System snack trays and Entrée/Side Dish units.

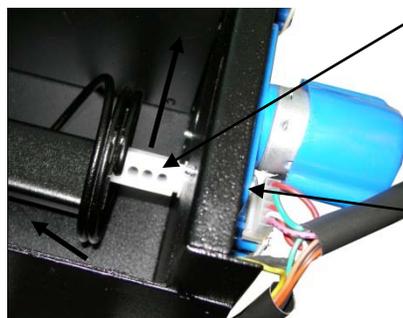
Figure 6 – Removing and Aligning a Helix Coil

Lift Helix Coil

Helix Coil Driver with 5 adjustment options

The back of Product Tray. Snack or Entrée/Side Dish units.

Figure 7 – Align Helix Coil  
Move bottom of Helix Coil to clear Coil Driver and remove



Align Helix Coil with front of tray.



Improperly aligned Helix Coil

## LOADING BEVERAGES

### Vertical Product Columns

- 1.) For bottles, place bottom of the first bottle against the front of the column by the Sold Out Switch. Place the second bottle to the rear of the column, touching the cap of the first bottle. See illustration at below.
- 2.) Finish loading to the top of the column, making sure bottles are perfectly horizontal and not tilted or skewed in the column.
- 3.) To adjust the rear spacer, grasp firmly and lift up and move forward or rear, as required, so that the rear spacer is touching the rear bottle.

Note: There are many variations of packaging among the beverage brands. The instructions above are meant to be a guideline. If you have packaging that isn't mentioned or shown, experimentation will be necessary for a proper vend.

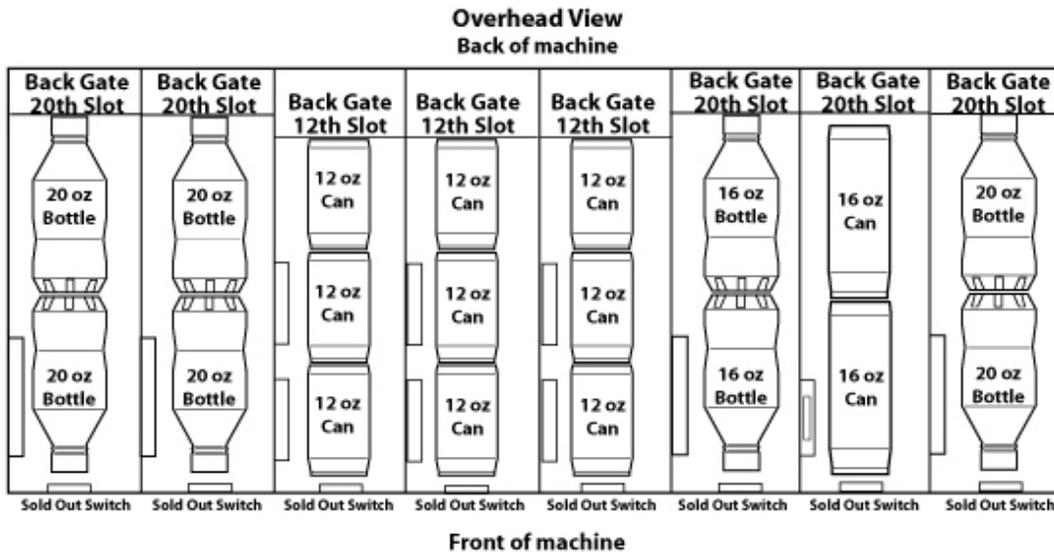
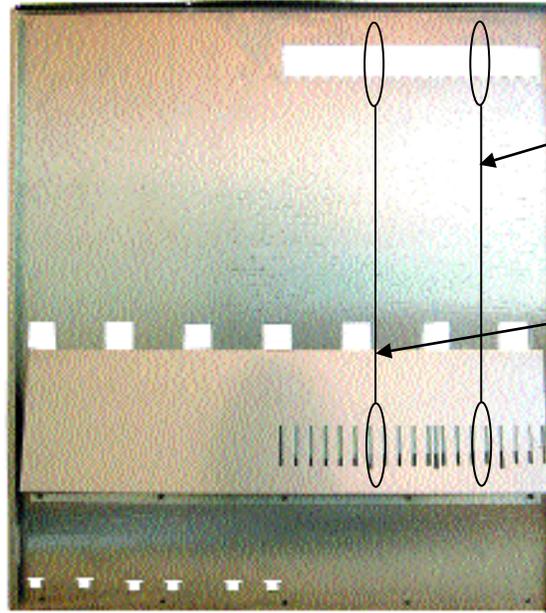


Figure 8 – Vertical Column Components



Rear spacer  
position for  
bottles  
(20th slot)

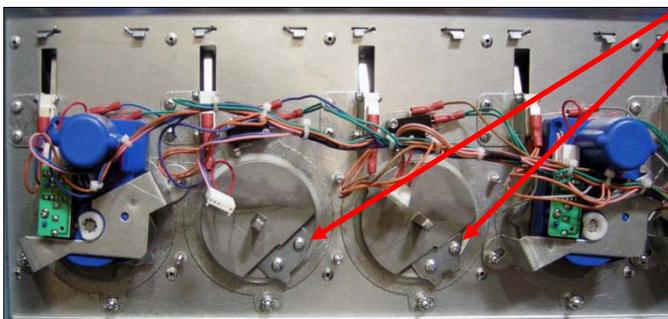
Rear spacer  
position for  
12 oz. cans  
(12th slot)

*You may need to adjust due to product height variance.*

Rear Spacer



Cams (front of vertical drop system; motors removed from two selections)



Bottle Cam  
Can Cam

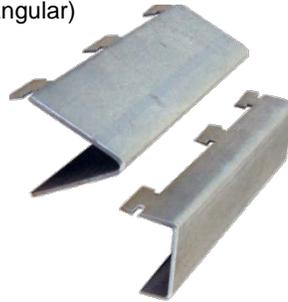
Bottle Shim  
7 3/8" w x 1.5" h



16 oz. Can Shim  
5.5" w x 1 1/16" h



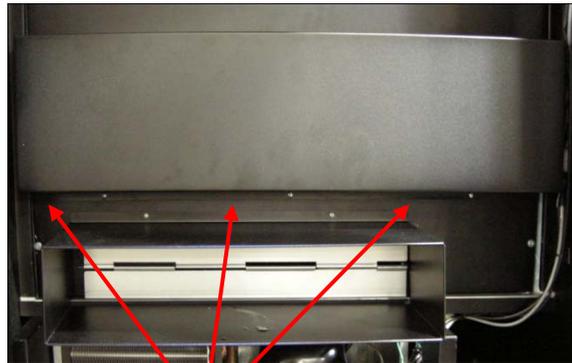
12 oz. Can Shim 1  
(triangular)



12 oz. Can Shim 2  
(square)

To remove access the Vertical Drop cavity, remove the 3 screws shown in Figure 9, unlatch the Door and lift the front up and off.

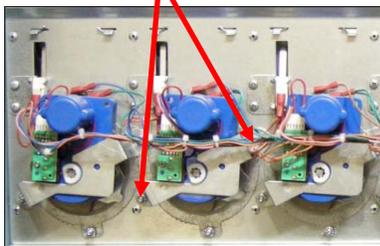
Figure 9 – Removing Vertical Drop cavity front



Remove 3 Screws

Figure 10 – Removing Vertical Drop Motors and Auger System

Remove two fasteners  
holding in motor/bracket.



If replacing motor, unplug the wire harness and slide motor off shaft.

If replacing auger, continue with the instruction to the right...

Remove auger by  
pulling straight out...



Insure that Auger  
Bushing does not  
become disengaged



## Drink Product Display

Your HealthyYOU™ Vending System has a product display shelf for the drinks. Take care to use packaging that is in perfect condition and products that are still within their expiration date to present the best possible advertisement to your potential customers. To display your products, you must:

- 1.) Remove the Drink Display Back Panel by loosening and removing the thumb screws located on either side of the panel.
- 2.) Place each beverage, in order of selection, in the display window taking care to make them evenly spaced and oriented properly toward the front of the vendor where the customer will see them.
- 3.) Reinstall the beverage back panel.

Figure 11 – Drink Product Display  
(Shown from back with back panel removed)



## PAYMENT SYSTEMS

### COIN CHANGER

The Coin Changer receives and returns change to customers. The Coin Changer will accept Quarters, Dimes, and Nickels. Once the coin hopper reaches the required inventory level, all other coins will be routed into the coin overflow tray.

### LOADING COINS

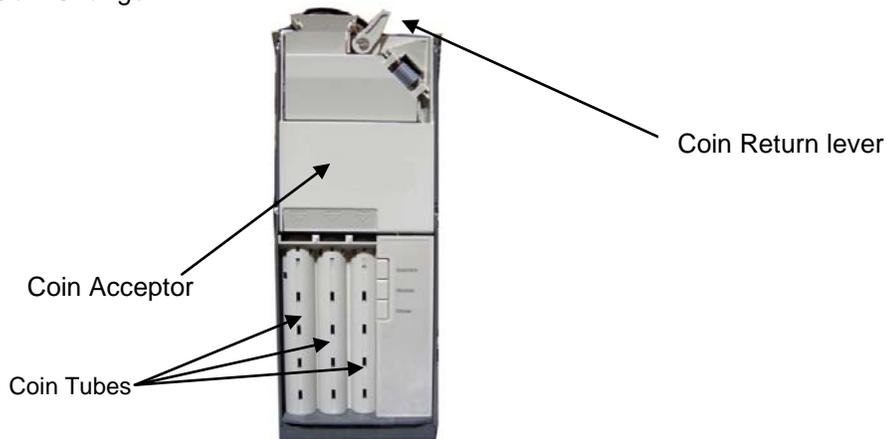
As change is given to the customer in coins only, it is recommended that you initially load the tubes/hopper half full when setting up your machine and that you do not allow your machine's coin inventory to drop below this level. In order for your VMC to keep an accurate coin inventory, enter MENU Mode, scroll through to Settings, Coin Refill, and load coins in through the front coin slot, as if you were inserting money to purchase items. Once the coins start dropping into the coin box, that means that the coin tubes are full and the VMC has an inventory of coins stored and will calculate transactions accordingly. This is also known as priming the changer.

### COIN RETRIEVAL

Coins can be retrieved from the vendor in two (2) ways, the Coin Box and the Manual Coin Retrieval Button. The Coin Box sits below the vertical shelf. The Coin Box holds all accepted coins except for Quarters needed to maintain inventory in the Quarter Tube (some overflow may occur). The Manual Coin Retrieval buttons are located on the upper portion of the changer and are labeled A, B, C, D and E. When in Service Mode, in the Settings, Coin Refill sub-menu, pressing a manual coin retrieval button will dispense one [1] of the selected coins.

**Note:** If Force Vend is on, pressing the Coin Return button will not return coins.

Figure 12 - Coin Changer



## CLEARING COIN JAMS

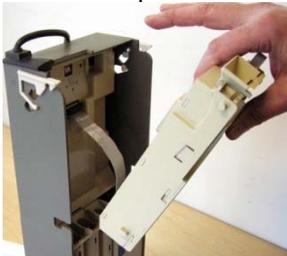
To clear a jam, remove the hopper assembly

### 1. To remove Acceptor Assembly

- a. Unlock the machine after unplugging it from the power source.
- b. Pull out the Payment/Media Console.
- c. Loosen the mounting screws that hold the Coin Return arm and Coin Chute to the Payment/Media Console, and shift this assembly up.
- d. Push the thumb Tabs up, and tilt the Coin Hopper forward



- e. Lift and remove. Note: The coin hopper is still connected to the Coin Changer by the ribbon harness that can be pulled free.



- f. Remove face plate from acceptor



g. Clear jammed coin



h. Reassemble

## **CLEANING COIN CHANGER**

Your Coin Changer needs to be cleaned only when the Coin Changer will no longer read coins.

1. Cleaning the Optics. You will need cotton swabs [Q-tips], and a 50/50 water/isopropyl [rubbing] alcohol solution.
  - a. Unlock and open the front door
  - b. Pull the Vertical shelf out.
  - c. Tilt The Coin Acceptor open, there are two (2) Lenses on the flap and two (2) Lenses inside the coin hopper
  - d. Swab the lenses with the solution, and reassemble.

## **REMOVAL OF COIN CHANGER**

To Remove the Coin Changer.

- a. Remove the Coin Acceptor as above
- b. Disconnect Wiring harness
- c. Lift Coin Changer and remove.

## **BILL VALIDATOR**

The Bill Validator allows your customers to pay for their purchase with paper currency. Your Bill Validator is installed at the factory, and is set to validate \$1 and \$5 bills, but will not accept \$5 bills if the coin tubes are empty. The Bill Validator verifies, accepts and stores paper currency but change is given in coins only.

## **BILL VALIDATOR CAPACITY**

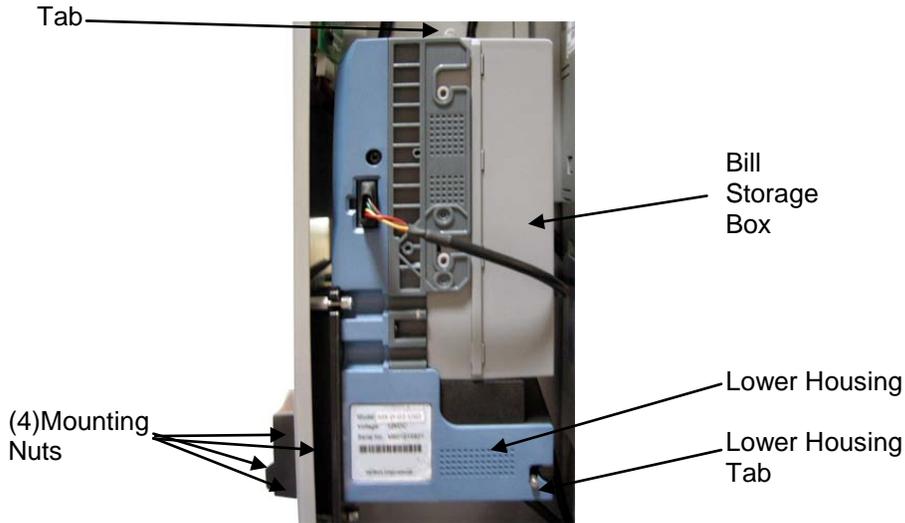
The Bill Storage Box will hold approximately 250 bills.

## **BILL RETRIEVAL**

The bills your customers spend are kept in the Bill Storage Box.

1. To Retrieve Bills.
  - a. Unlock and open the Front Door.
  - b. Pull out the Payment/Media Console
  - c. Open door located on top of bill collection box.
  - d. Close top door on bill collection box after bills are retrieved.

Figure 13 – Bill Storage Box



## REMOVING BILL VALIDATOR

From time to time it may be necessary to remove the Bill Validator for cleaning and clearing jams.

1. To remove the Bill Validator.
  - a. Unlock and open the Front Door, unplug machine.
  - b. Pull out the Payment/Media Console.
  - c. Pull Tab forward and lift Bill Storage Box.
  - d. Disconnect Bill Validator from Wiring Harness.
  - e. Remove the Four (4) Mounting Nuts. (Fig. 13)
  - f. Remove Bill Validator

## CLEARING BILL JAMS

It is possible that a torn or damaged bill can jam within the Bill Validator, putting it out of service.

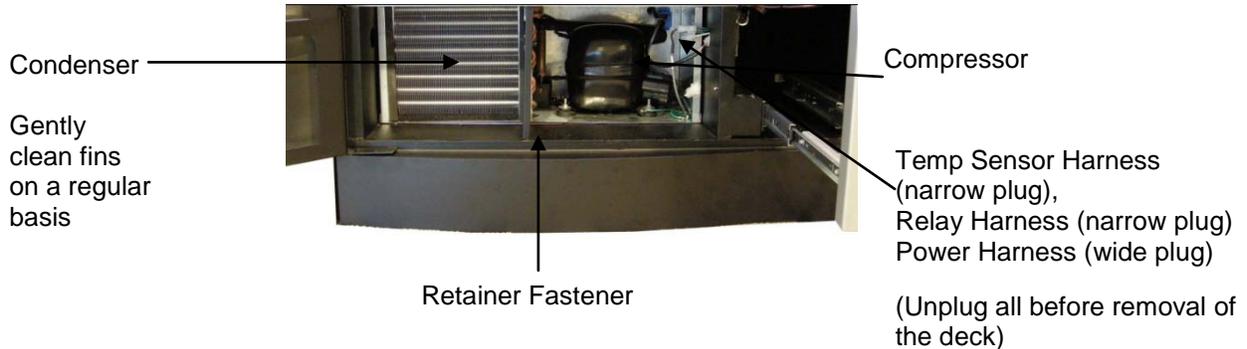
1. To Clear a Jam.
  - a. Remove Bill Storage Box as instructed above.
  - b. Press Tab on bottom of Bill Validator, and pull Lower Housing free (see Fig. 13).
  - c. Remove bill jam, and reassemble.

## REFRIGERATION DECK

Your beverages are kept cold by a high efficiency refrigeration system having two air circulation fans to chill the cans and bottles. The refrigeration unit can be easily accessed by opening the beverage unit door and sliding the front panel up and out. Remove the retainer fastener at the mid-point of the refrigeration deck and unplug the three wire harnesses (Fig. 14). The refrigeration deck can now be pulled out from the machine. Please make sure you unplug wire harnesses prior to pulling all the way out.

The refrigeration deck is a pullout modular system consisting of Compressor, Condenser, Condenser fan, Evaporator, Evaporator Fan, Accumulator or Dryer, and Temperature Sensor which communicates to the VMC. The temperature is pre-set at the factory for efficient and effective operation.

Figure 14 – Refrigeration unit



## CLEANING THE CONDENSER

Dust and dirt restricts good airflow and the cooling of the condenser and can inhibit the refrigeration unit from chilling beverages properly.

Remove the front bottom panel of the refrigeration unit. Brush the dirt and dust from the condenser fins. You can also blow canned air, available at computer and office supply stores, on the condenser or vacuum clean it. Do not damage the fins of the condenser while cleaning. Reassemble the front bottom panel after cleaning.

## REFRIGERATION

Refrigeration is the transfer of heat from one area to another. In the case of this machine we are transferring the heat from the area containing the beverage selections to the outside of the machine and dissipating the heat throughout the room. The more heat we are able to transfer away from the beverages the colder they become.

This process is accomplished by the use of a sealed compressing system using an ozone friendly gas commonly known as R134a refrigerant. The system is comprised of several key mechanical components: the condenser, the evaporator and the compressor. The condenser is located in the lower front left of the machine and it is where the heat is dissipated from the cooling process and blown to the outside of the machine. The evaporator is located inside the machine towards the back of the cooling system underneath the beverage unit section being cooled. Its purpose is to absorb the heat from the drink selections and provide the cool air needed to refrigerate the beverages. The compressor is the heart of the cooling system and its purpose is to provide pressure and circulation of the refrigeration gas.

The refrigeration system is monitored and controlled by several key electrical components. The condenser fan, evaporator fan, temperature sensor, VMC, and the start and overload components located on the side of the compressor. The line voltage from the 115 volt AC outlet in the room is fed to the two fans, the condenser and the evaporator fans, and they run continuously as long as the machine is plugged into 115 volt AC power coming from the wall. The temperature sensor and VMC, control the on and off cycling of the compressor. The temperature sensor is located on the back side of the refrigeration deck.

To determine if the compressor system is running it is sometimes difficult due to the fact that the compressor tends to be very quiet. The sound and slight vibration from the fans running can sometimes be mistaken for the

compressor running. One way to tell if the compressor system is running is to cautiously place your hand on the compressor to feel if it is warm. **CAUTION** as it may be hot to the touch. If the compressor is stone cold and stays that way for an extended period of time, you can assume there is an electrical problem in the circuitry or components that operate the compressor. Another way to see if the compressor is running is to feel the air exiting the condenser coils from the front to see if there is any heat.

Any problems with the fans running can also lead to a cooling system failure. In order for any cooling system to operate properly it is most important that all fans are running and that the condenser coil is kept clean and free of any dust, dirt or obstructions.

### Entrée/Side Dish Unit Installation

- A. Remove all shipment/packing materials, inspect unit for damage.
- B. Place the Entrée/Side Dish Unit on the right side of the snack/drink unit (when standing – facing it), open the door and align the holes. Using the bolts and washers provided, (2 each) attach the Entrée/Side Dish Unit to the snack/drink unit. (Figure 15)

Figure 15 – Entrée/Side Dish Unit Physical Connection



- C. Connect Wire Harness from the Entrée/Side Dish Unit to the machine's main circuit board. (Figure 16)

Figure 16 – Wire Harness connection



### Loading the Entrée/Side Dish Unit

The machine arrives with wire ties holding down the product coils to avoid damaging the product trays. Before any testing can be done, you must remove these wire ties. Also remove the tape holding down the tray locking levers.

Attach the Entrée/Side Dish Unit to the snack/drink unit as instructed above in figure 16. You are now ready to load your products and test vend.

## SmartWarePro™

The SmartWarePro™ setup utility enables you to setup SmartCards to be used to set the configuration of your HealthyYOU™ Vending System. The utility works in conjunction with a USB smart card reader (included).

### System Requirements

- SmartWarePro™ CD
- Approved USB Card Reader
- SmartCards
- PC with the following specification:

	Minimum	Recommended
Processor	Pentium 200MHz Processor	Pentium P4 1000MHz or better
RAM	128M byte	> 256M byte RAM
Free Hard Disc Space	20Mbyte	> 100Mbyte
Graphics	800x600 16 colour SVGA	1024 x 768 256 colour SVGA
Operating System	Windows 2000	Windows 7, XP or Vista
CD-ROM	Yes	Yes
USB port	One	More than One

- **Software Installation**

- (i) Installing the SmartWarePro™ Application

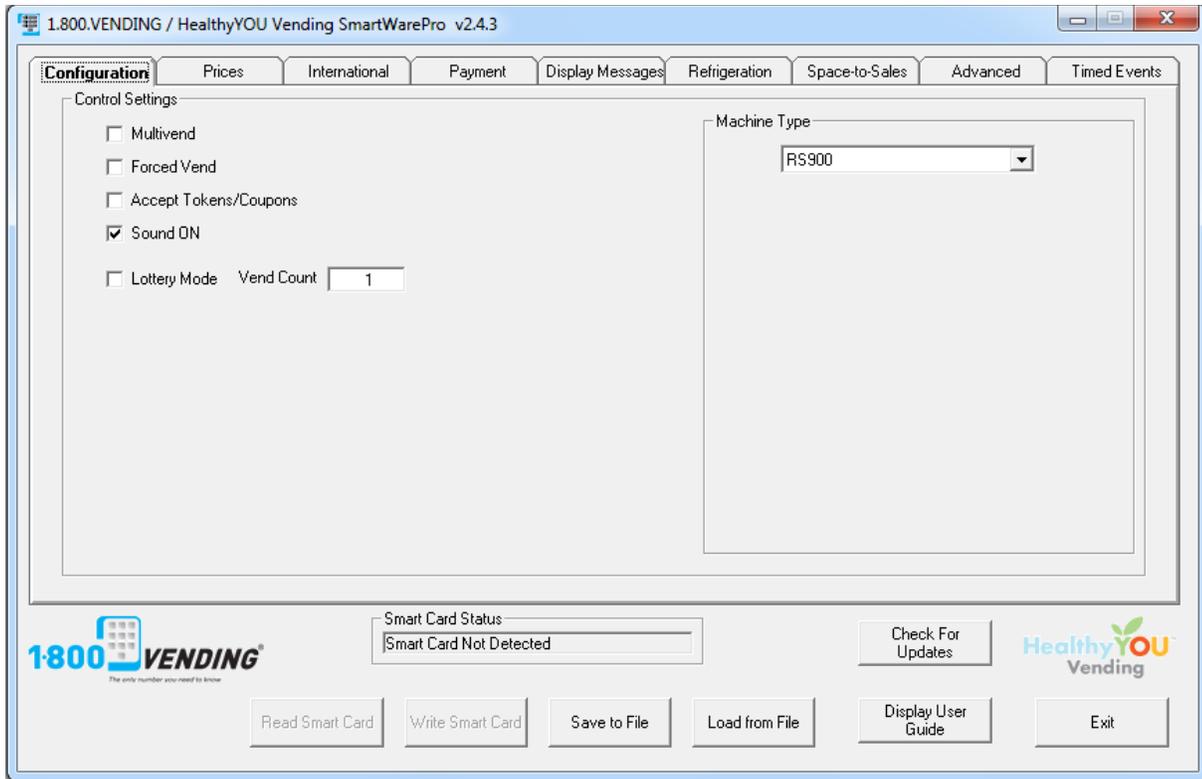
Either:

- Insert the CD into the CD ROM drive
- Select the "Install SmartWarePro™" option

Or:

- Run the programme "**setup.exe**" in the top level folder on the CD and follow the instructions.

## CONFIGURATION TAB



## General Operations

**Read Smart Card** – read an existing smart card

**Write Smart Card** – programme a card with the current settings

**Save to File** – save the complete settings to a text file

**Load from File** – restores previously saved configurations

**Check Website for Latest Version** – Hyperlink to software update web site

**Display User Guide** – Hyperlink to online manual

**Exit** – close the utility program

**Card Status** – shows the status of the card reader

No card inserted

(Read and Write Card buttons disabled)

256K smart card

Standard smart card inserted

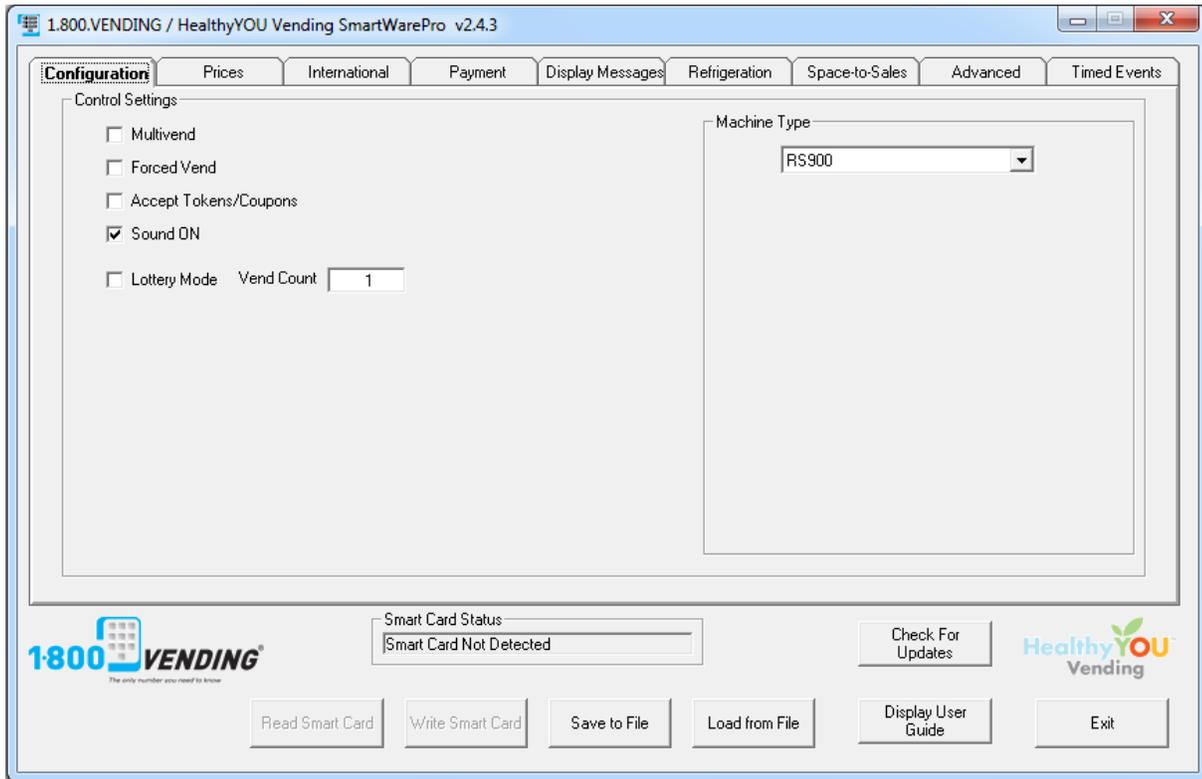
512K smart card

Alternate smart card inserted

## Notes

If an Audit or Temperature Logging Card is being read the data will be saved to a file once the read is complete. There is a prompt for the file name and an option to clear the card after it has been saved to the file. Refer to Appendix 1 for the file formats.

## CONFIGURATION TAB (continued)



### Machine Selection / Basic Settings

**Multivend, Forced Vend, Accept Tokens/Coupons** and **Sound ON** – check the option to enable the corresponding feature.

**Lottery Mode** – check this option and enter a “**Vend Count**” value to allow a free selection, every “**Vend Count**” vends.

**Note :** Some features described in this guide are not available on all VMC configurations. If a particular item is “greyed out” or not shown, it is not available for the current machine.

## PRICES TAB

1.800.VENDING / HealthyYOU Vending SmartWarePro v2.4.3

Configuration | **Prices** | International | Payment | Display Messages | Refrigeration | Space-to-Sales | Advanced | Timed Events

Main Prices

A1	100	A2	100	A3	100	A4	100	A5	100										
B1	100	B2	100	B3	100	B4	100	B5	100	B6	100								
C1	100	C2	100	C3	100	C4	100	C5	100	C6	100	C7	100	C8	100	C9	100	C10	100
D1	100	D2	100	D3	100	D4	100	D5	100	D6	100	D7	100	D8	100				

Price Bank:  Machine:

ALL Price:

Smart Card Status:

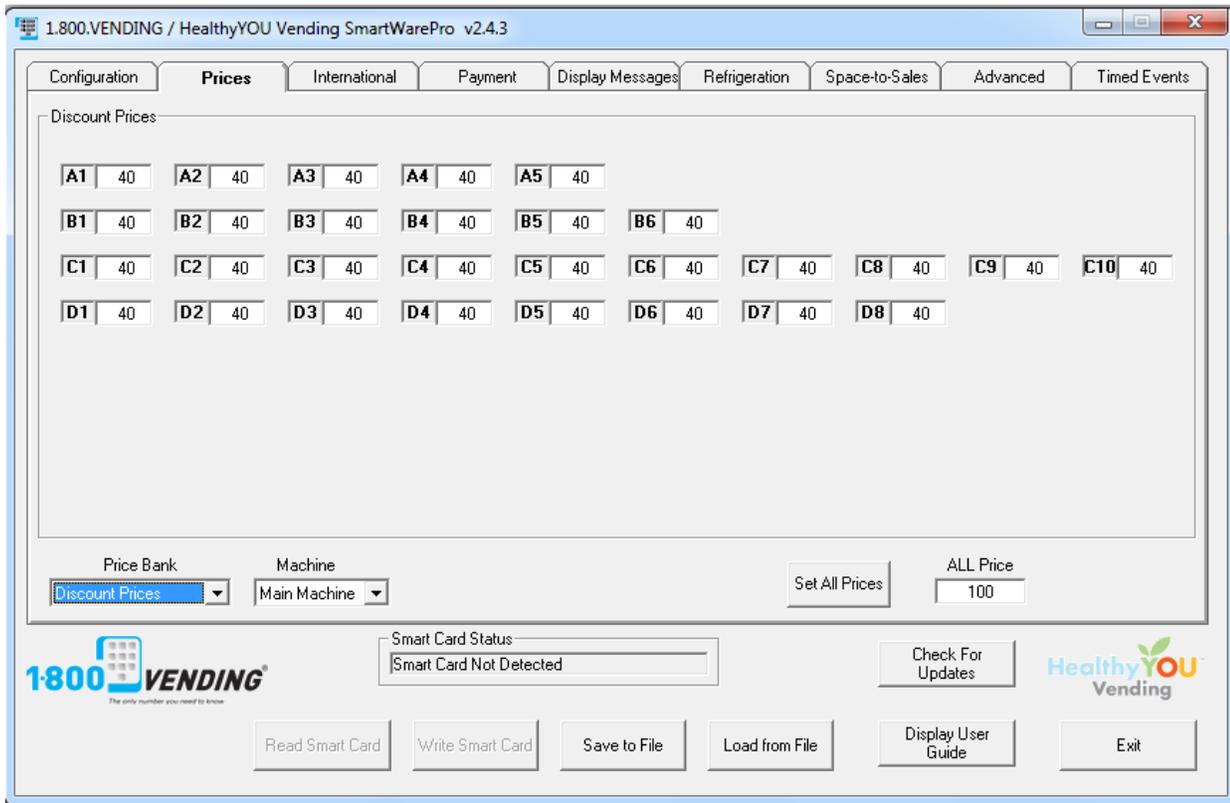
1.800.VENDING® The only number you need to know. HealthyYOU Vending

To set a particular **price** type the value, in cents, into the corresponding **price box**.

To set **ALL** the prices to the same amount, enter the amount in the **ALL Price** box and click the **Set All Prices** button.

Individual selections may be named – refer to the **Text Messages** page for more details

## PRICES TAB (continued)



### Discount Prices

Select **Discount Prices** using the **Price Bank** pull-down.

The VMC can operate at discounted prices between the **Discount Start Time** and **Discount End Time** points - refer to the "Timed Events" section.

## PRICES TAB (continued)

	Price	Selection 1	+ Selection 2	+ Selection 3	+ Selection 4
GG1	100				
GG2	100				
GG3	100				
GG4	100				
GG5	100				
GG6	100				
GG7	100				
GG8	100				
GG9	100				
GG10	100				

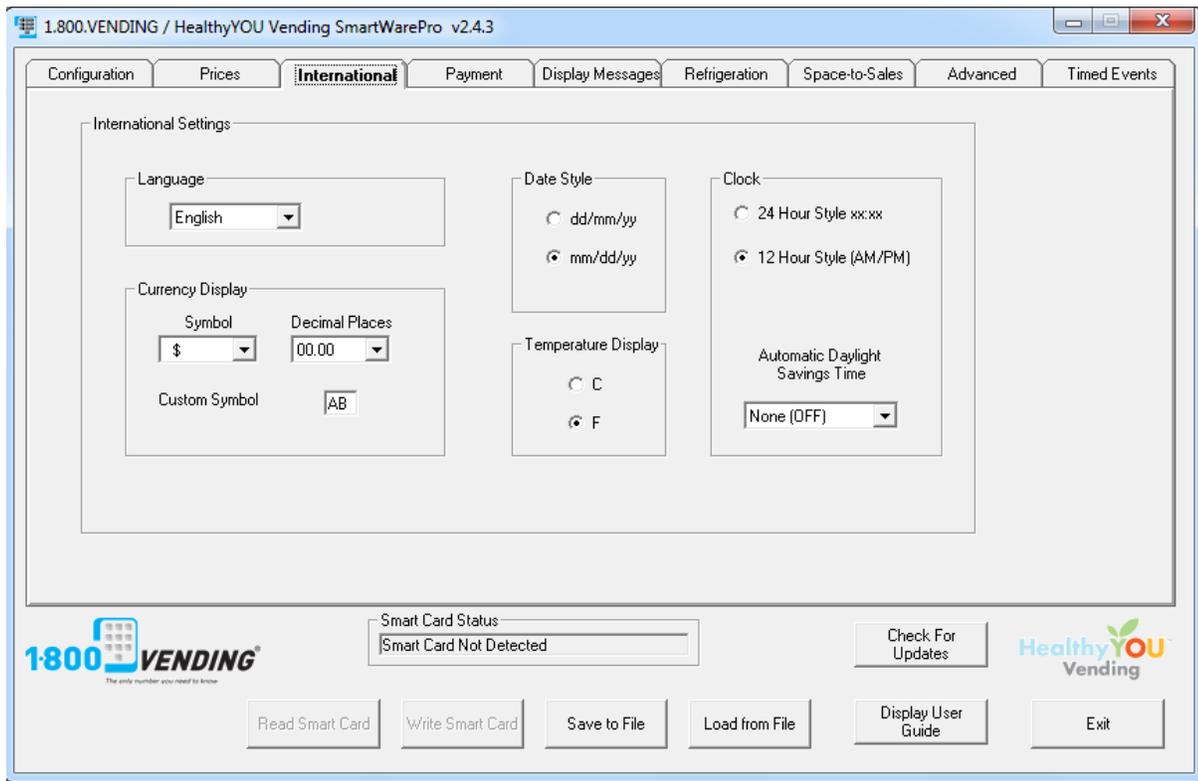
### Meal Deals

These are multiple selections that may be offered at a discount price for the group of selections.

Meal deals are selected using the special selection prefix “GG” followed by the 1 – 10 key. The Meal Deal price is charged to the customer and multiple products are vended as specified.

Each of the 10 meal deals can have an individual price, followed by a list of selections that make up the deal. Each deal can comprise up to 4 selections which may be from the Main machine, or from Satellite machines. In the example above meal deal GG2 comprised selection D1 from the main machine plus selection A10 from the second satellite machine.

## INTERNATIONAL TAB



### Language

Select the default language for the display using the pull-down list. One language option is **EEPROM**. This language bank may be edited for special configurations and non-supported languages. Refer to the **Text Messages** page for more details.

### Currency Display

Choose the desired currency **Symbol** and the number of **Decimal Places** to be displayed. If the required currency symbol is not in the options, choose **Custom** and type in two characters in the **Custom Symbol** box.

### Date Style

Choose between **mm/dd/yy** and **dd/mm/yy** styles

### Temperature

Choose between displaying Centigrade and Fahrenheit. **IMPORTANT:** Check the values on the **Refrigeration Page** AFTER changing the Temperature scale.

### Clock

Choose between 24 hour and 12 hour modes to be displayed.

Select the **Daylight Saving Time** option for automatic summer/winter changes in the **USA** and the **UK/Europe** if required.

## PAYMENT TAB

1.800.VENDING / HealthyYOU Vending SmartWarePro v2.4.3

Configuration | Prices | International | **Payment** | Display Messages | Refrigeration | Space-to-Sales | Advanced | Timed Events

**Coin Changer**

	Enabled	Enabled in Exact Change
Coin 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Coin 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Manual Dispense ON

**Bill Reader**

	Enabled	Use Escrow	High Security
Bill 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bill 16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Payment Devices**

Coin Changer  
 Bill Acceptor  
 Credit/Debit Card Reader

**Exact Change Algorithm**

Minimum Coins in Tube: 4  
 Minimum Value in Tube/Hopper (x max price): x1

**Special Features**

Card Reader can change Price  
 MDB Card Compatibility: 800 Smart

Smart Card Status: Smart Card Not Detected

Check For Updates

Read Smart Card | Write Smart Card | Save to File | Load from File | Display User Guide | Exit

### Payment Devices

Check the corresponding boxes to turn Card, Coin and Bill payment on

### Coin Changer

Check the **Enabled** box to allow the corresponding coin to be accepted normally, and the **Enabled in Exact Change** box to allow this coin to still be accepted when the machine is in Exact Change mode.  
 Check the **Manual Dispense ON** box to allow tubes to be emptied manually.

### Bill Reader

Check the **Enabled** box to allow the corresponding Bill to be accepted. Check the **Use Escrow** box to hold the Bill for change and the **High Security** box to use the corresponding bill acceptance security level.

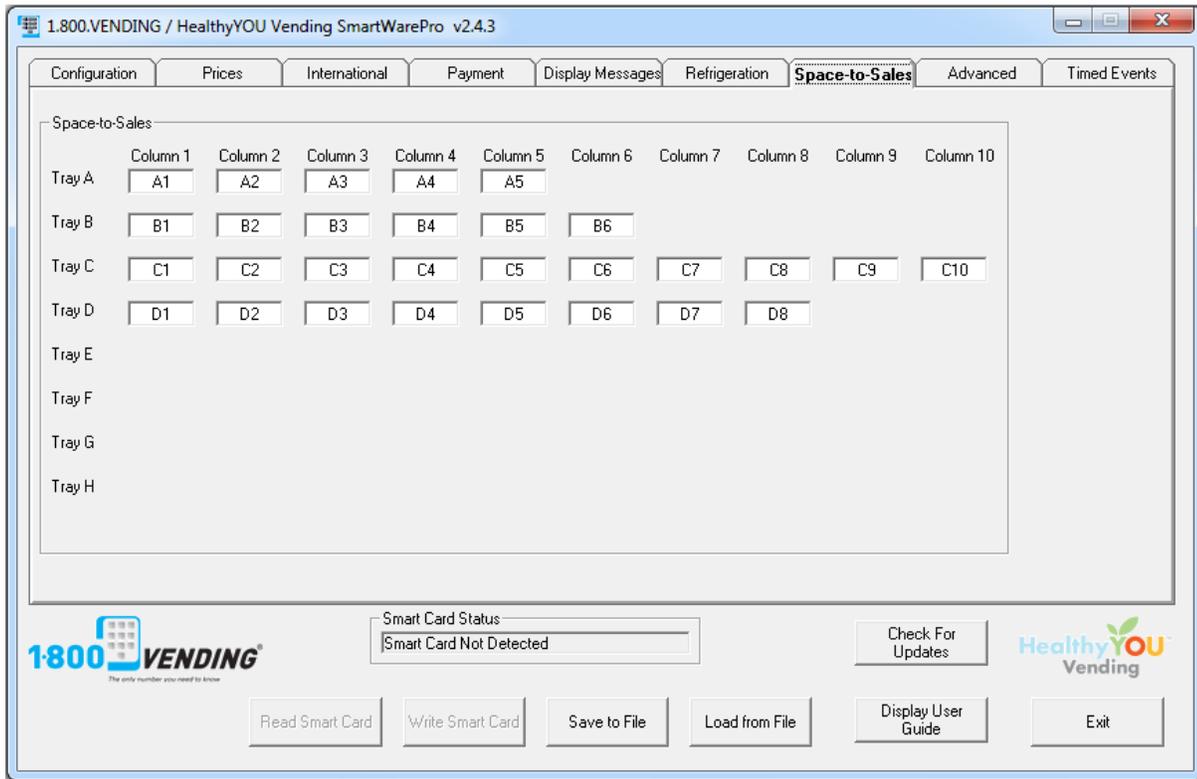
### Exact Change Algorithm

The VMC applies two criteria for creating the **Exact Change** condition. **Exact Change** is set when the tubes or hopper contain less coins than the **Minimum Coins** quantity OR if the total value of the coins in the hopper is less than the highest price set multiplied by the **Minimum Value** multiplier.

### Special Features

**Card Reader can Change Price** – check this box to allow the card reader device to apply discounts.

## SPACE TO SALES TAB

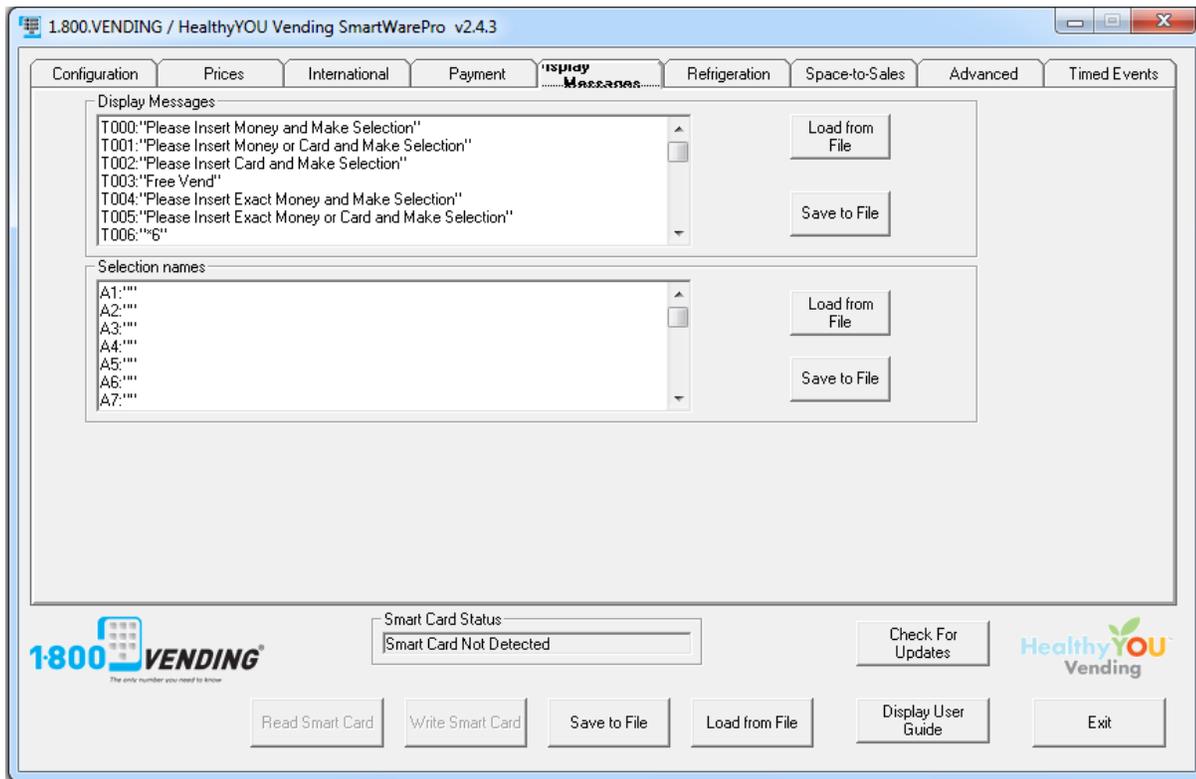


### Stock Links

Where more than one selection contains the same product it is possible to link these selections together so that if one selection is sold out the product can be dispensed from another selection. This is particularly useful for increasing the effective stock for Meal Deals, and for Can/Bottles operation.

In the example above selections D1, D2 and D3 have the same type of product and have been linked together in a chain. All other selections are not linked and refer back to themselves.

## DISPLAY MESSAGES TAB



### Display Text Messages

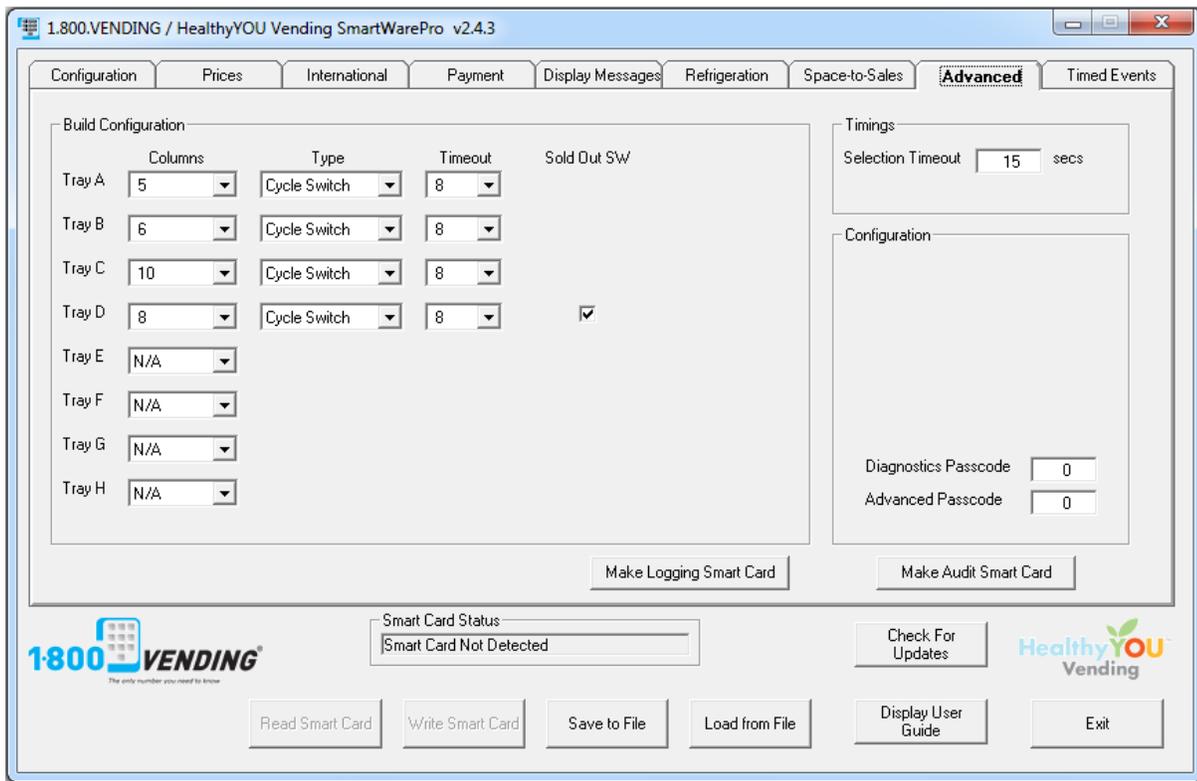
This window displays the text held in EEPROM for an alternate language set. To Edit the **Display Messages** use the **Save to File** button to save the text to a particular file. This file can be edited using **Notepad** and then reloaded using the **Load from File** button.

### Selection Names

This window displays the text that is displayed for each **Selection** or **Meal Deal**. To Edit the **Selection Names** use the **Save to File** button to save the text to a particular file. This file can be edited using **Notepad** and then reloaded using the **Load from File** button.

When either of the "Save to File" options are selected Windows Notepad is launched directly to allow easy editing. **IMPORTANT:** When editing is complete save the changes from within Notepad and then use the **Load from File** button to install the changes.

## ADVANCED TAB



### Build Configuration

This section allows the tray options to be defined for the particular machine. Select the number of **columns** for a particular tray, the Motor **Type** as below, the overall run **Timeout** in seconds for the motor and whether a **Sold Out switch** is fitted.

#### Motor Types :

- |              |  |
|--------------|--|
| Cycle Switch | - stops when the Home Switch is reached                    |
| PV Sensor    | - stops when a product triggers the "Positive Vend Sensor" |
| Timed        | - runs for a fixed period of time                          |

### Timings

**Selection Timeout** is the number of seconds for which a selection is deemed made, and for which the **product name** and **price** are displayed.

### Configuration

- |                             |   |
|-----------------------------|---|
| <b>Diagnostics Passcode</b> | - a 4 digit code for access to additional diagnostic features in the menus. |
| <b>Advanced Passcode</b>    | - a 4 digit code for access to the Advanced menu features.                  |

### Make Logging Smart Card / Make Audit Smart Card

- create a blank smart card of the selected type.

## REFRIGERATION TAB

The screenshot shows the 'Refrigeration' tab in the software interface. The window title is '1.800.VENDING / HealthyYOU Vending SmartWarePro v2.4.3'. The interface includes a menu bar with options: Configuration, Prices, International, Payment, Display Messages, Refrigeration (selected), Space-to-Sales, Advanced, and Timed Events. The main content area is titled 'Refrigeration' and contains the following controls:

	Low Limit	High Limit		First Defrost Time
<input checked="" type="checkbox"/> Refrigeration ON	36.5 F	41.9 F		00:00
<input checked="" type="checkbox"/> Auto Defrost ON	Defrost Duration	20 mins	Interval (Hours)	03

At the bottom of the window, there is a 'Smart Card Status' section showing 'Smart Card Not Detected'. Below this are several buttons: 'Read Smart Card', 'Write Smart Card', 'Save to File', 'Load from File', 'Check For Updates', 'Display User Guide', and 'Exit'. The '1.800.VENDING' logo is on the bottom left, and the 'HealthyYOU Vending' logo is on the bottom right.

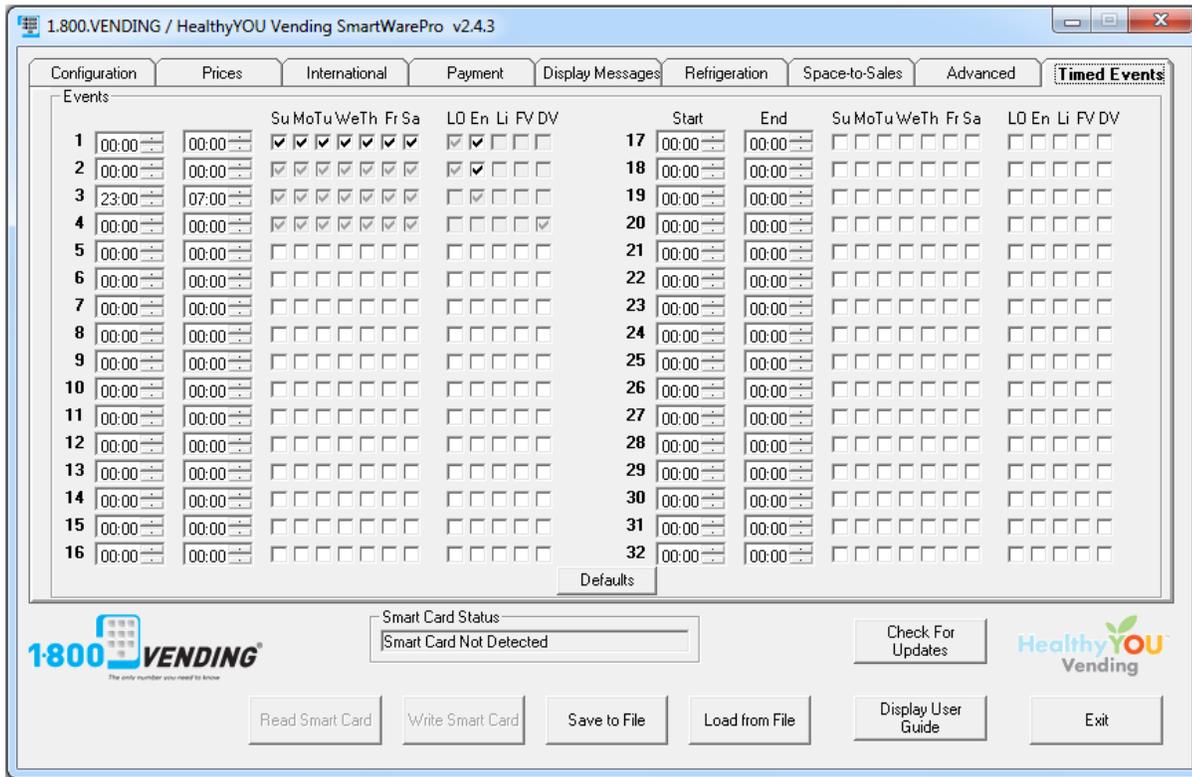
**Zone ON** – check the appropriate boxes turn refrigeration control ON for the Zone

**Low Limit / High Limit** Temperatures – set the upper and lower temperature limits for the zone. Note: the VMC internally works in 0.5C steps so exact Fahrenheit figures may be adjusted to the nearest 0.5C step.

### **Auto Defrost**

Check the box to turn automatic defrosting ON. The defrost cycle is run for **Defrost Duration** minutes every **Interval** hours. The **First Defrost** after turning the feature ON may be set with the pull-down option. Thereafter the **Interval** value defines when the next defrost will occur.

## TIMED EVENTS TAB



Version 1.10 and later Premier VMC software supports up to 32 separate timed events. Each event can be set to occur between the **START** and **END** times for the selected **days of the week**. Event times may overlap. Each Event can then have the following actions (more than one selection may be applied)

- LO** Timed Lockout
- En** Refrigeration Energy Saving
- Li** Lights OFF
- FV** Free Vend
- DV** Discounted Vend (If both **DV** and **FV** are selected, free vend will apply)

Use the **Defaults** button to clear the events back to the factory default configuration  
 Events 1 – 4 are backwards compatible with earlier versions of VMC software.

- Events 1 and 2** Timed Lockouts with shared **Days of the Week** active.
- Event 3** Energy Saving only
- Event 4** Discounted Vend only

In the screenshot above the following events are set for an example “factory/office” application:

- Discounted prices for anyone working late 17:00 to 20:00 on weekdays
- Free vend for anyone working after 20:00 on weekdays and between 08:00 and 18:00 at weekends.
- Energy saving every night from 22:00 until 06:00 the next morning.
- Timed Lockout between 10:00 and 10:15 on Tuesdays, Wednesdays and Thursdays for a “staff meeting” !

## Appendix 1 – File formats

Both Audit and Temperature Logging Cards are saved to .csv (comma separated value) format files that can be imported into a number of packages, including Microsoft Excel. Records are tabulated with a title to each column.

**Example Audit File** – values are in base units (cents, pence etc.)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Time	Machine No	Asset No	Coin	Note	Card	Change	M-Disp	Sales Value	Free Vend Tokens	Sales Count		
2	4/4/2012	21:08	134	12345	7250	0	0	2425	0	4400	0			
3	4/4/2012	21:09	134	12345	7350	0	0	2475	0	4450	0			
4														
5														

**Example Temperature Logging File** – temperatures are in Centigrade, defrost duration is in minutes. Readings are logged approximately every minute.

**Appendix 1 – File formats**

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Time	Machine No	Asset No	Coin	Note	Card	Change	M-Disp	Sales Value	Free Vend Tokens	Sales Count		
2	4/4/2012	21:08	134	12345	7250	0	0	2425	0	4400	0			
3	4/4/2012	21:09	134	12345	7350	0	0	2475	0	4450	0			
4														
5														
6														
7														
8														
9														
10														

**Example Temperature Logging File** – in this example, temperatures are in Centigrade, defrost duration is in minutes. Readings are logged approximately every minute.

temp.csv - Microsoft Ex...

Home Insert Page Layout Formulas Data Review View Developer Tools

Paste Font Alignment Number Styles Cells Editing

D8 fx

	A	B	C	D	E	F
1	Date	Time	Zone 1	Defrost		
2	3/4/2012	23:55	24.5			
3			-18.5			
4			4.5			
5			12			
6			16			
7	4/4/2012	0:00		10		
8			19.5			
9			21			
10			22			
11			22.5			
12			23			
13			23.5			
14			23.5			
15			23.5			
16						
17						
18						
19						

temp

Ready 100%



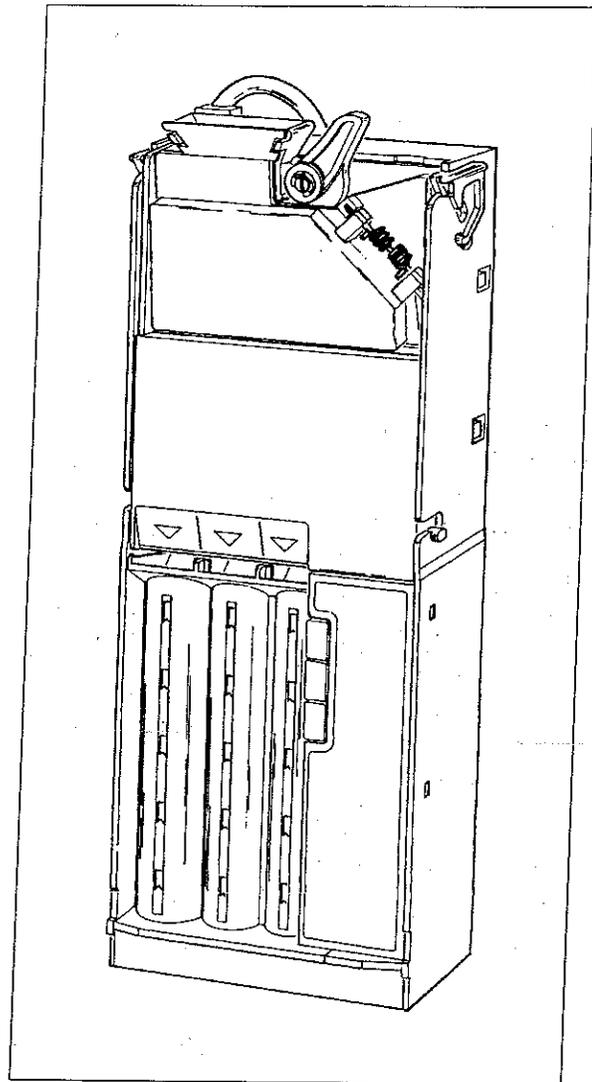
# 9302-GX Coin Changer

34VDC — Multi-Drop Bus Interface

## FEATURES

- Accepts U.S. nickels, dimes, quarters and dollar coins.
- Pays out nickels, dimes and quarters from self-loading, high-capacity change tubes.
- Select high or low quarter tube level with the flip of a switch.
- Dollar coins can be rejected by simply flipping a switch.
- Heavy duty D.C. payout solenoids provide fast, accurate payout.
- State-of-the-art electronic logic system is designed for reliability and performance. The logic board is warranted for two years.
- Lightweight, rugged, plastic construction provides dependable, maintenance-free service.
- Provides the fastest and most accurate coin acceptance of any electronic unit available today.

**CAUTION:** Do not plug or unplug changer with power applied



## **INSTALLATION INSTRUCTIONS**

1. Remove the acceptor from the changer by releasing the acceptor studs from the changer latches and pulling the top of the acceptor forward and away from the changer. Unplug the ribbon cable from the changer. Free the lower acceptor studs from the changer housing. With the acceptor removed, set the key holes in the back of changer housing over the mounting screws in the vendor. Tighten snugly.
2. Set the desired changer options (see "Option Switch Setting" section).
3. Replace the acceptor by inserting bottom acceptor studs into changer housing guides. Plug the acceptor ribbon cable into the changer. Press the top of acceptor into the changer housing until the top acceptor studs lock into the changer's acceptor latches.
4. Plug the changer into the vendor socket.
5. Load the coin tubes making sure all coins lie flat.
6. Test the changer with a variety of coins to ensure proper operation.

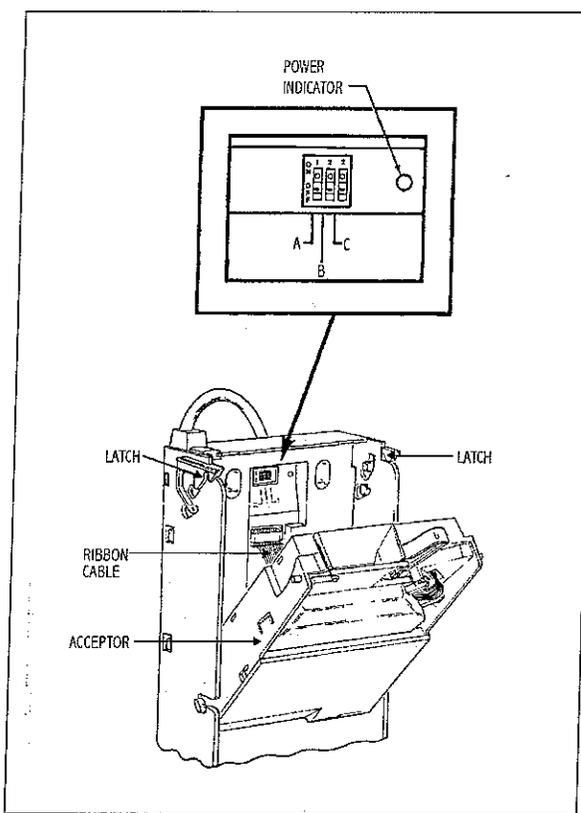


Figure 1

## **OPTION SWITCH SETTING**

1. Unplug the coin changer.
2. Remove the acceptor.
3. Located in the upper portion of the changer is a single switch module with three rocker switches (see Figure 1). When the top of the rocker switch is pushed in, it is in the ON position. For information regarding switch settings, see Figure 2.
4. Replace the acceptor.
5. Plug the changer into the vendor socket.
6. Test with a variety of coins to ensure proper operation.

### **SWITCH A - NOT USED**

### **SWITCH B - LO 25¢**

Controls the level of the 25¢ change tube.

ON Quarters are directed to cash box once change tube has approximately 18 quarters.

OFF Quarters are put into change tube until change tube is full.

### **SWITCH C - \$ ACPT**

Controls the acceptance of the dollar coin.

ON Dollar coin accepted.

OFF Dollar coin rejected.

Figure 2



# BillPro™ Series Bill Acceptor

## Installation & Operation (BP2 & BP4) Guide

### Multi-Drop Bus Unit

#### **INTRODUCTION**

The BillPro™ Series Bill Acceptor is the result of extensive research and development in computerized crediting systems. These greatly simplified units provide many important features never before available in any bill acceptor. The BillPro™ Series Bill Acceptor extends the capability of the vending machine to generate maximum performance.

This page contains general information on installing, operating and maintaining the BillPro™. Some of the units many outstanding features include:

- Modular design with new routines and validation techniques that simplify future upgrades and expansion
- Improved Bill Transport/Anti-Jam Software
- Single harness with quick disconnects for ease of service
- Plastic PCB's (Printed Circuit Board) enclosure assures protection from water damage
- MDB (Multi-Drop Bus) interface only
- New "Flex Stacker" maximizes bill capacity
- BP2 accepts old and new \$1 and \$5's;  
BP4 accepts old and new \$1, \$5, \$10 and \$20's;  
coupon capabilities are also available for both models
- Improved anti-cheat features
- Compact design provides easy machine installation
- New configuration features eliminates the dipswitch

#### **INSTALLATION AND OPERATION**

1. Remove the vending machine's power.
2. Install the BillPro™ Series bill acceptor into the mounting hole of the vending machine using the appropriate hardware (NOT INCLUDED).

**NOTE:** Should additional mounting hardware be required, please contact your local Coinco office or machine manufacturer.

3. Connect the BillPro™ interface harness to the vending machine.
4. Restore power to the vending machine (illuminated inlet will begin to flash and stacker motor will cycle upon power-up).

5. Observe that the power indicator light on the back of the lower housing, is ON continuously. If the light is off or blinking, check the following:
  - Power to machine
  - Machine disabling unit
  - Bill acceptor harness
  - Machine does not have credit already established
6. With the vend price set below one dollar, insert a one dollar bill.
7. Verify that a dollar bill is accepted and stacked into the bill box.
8. Verify a one dollar credit has been established.
9. Check the bill box to see that the one dollar bill is properly stored.

#### **ABOUT THE CONFIGURING OPTIONS**

The different configuration options and the order in which they are stored in the bill acceptor are as follows:

- \$1 accepted with high security disable
- \$1, \$5 accepted with high security disable
- \$1, \$5, \$10 accepted with high security disable \*
- \$1, \$5, \$10, \$20 accepted with high security disable \*
- \$1 accepted with high security enable
- \$1, \$5 accepted with high security enable
- \$1, \$5, \$10 accepted with high security enable \*
- \$1, \$5, \$10, \$20 accepted with high security enable \*

*\* Options available for BP4 only.*

Configuring the bill acceptor for bill enabling and security is accomplished using the anti-cheat lever and the illuminated inlet. The anti-cheat lever is used to enter configuration programming mode, scroll through all possible configuration options and select the required configuration. The illuminated inlet provides feedback to the user during the configuration process by displaying a pattern that corresponds to each configuration option available.

## SETTING THE CONFIGURING OPTIONS

- Remove the lower housing (See Figure 1).
- Depress and release the anti-cheat lever five times, holding it down for a half a second each time.
- Once in the configuration mode, depress and release the anti-cheat lever one time to scroll to the next configuration option. Continue depressing and releasing the anti-cheat lever until the desired option is reached.
- Once the desired option is displayed, depress and hold the anti-cheat lever until the unit exits the configuration mode (approximately 3 seconds). The new configuration setting will flash 3 times to confirm the setting.
- Replace the lower housing.
- Test unit to insure proper set-up.

## REMOVING ACCEPTED BILLS

- Accepted bills may be removed by releasing the bill box lid exposing the bills or by removing the bill box from the bill acceptor (See Figure 2).

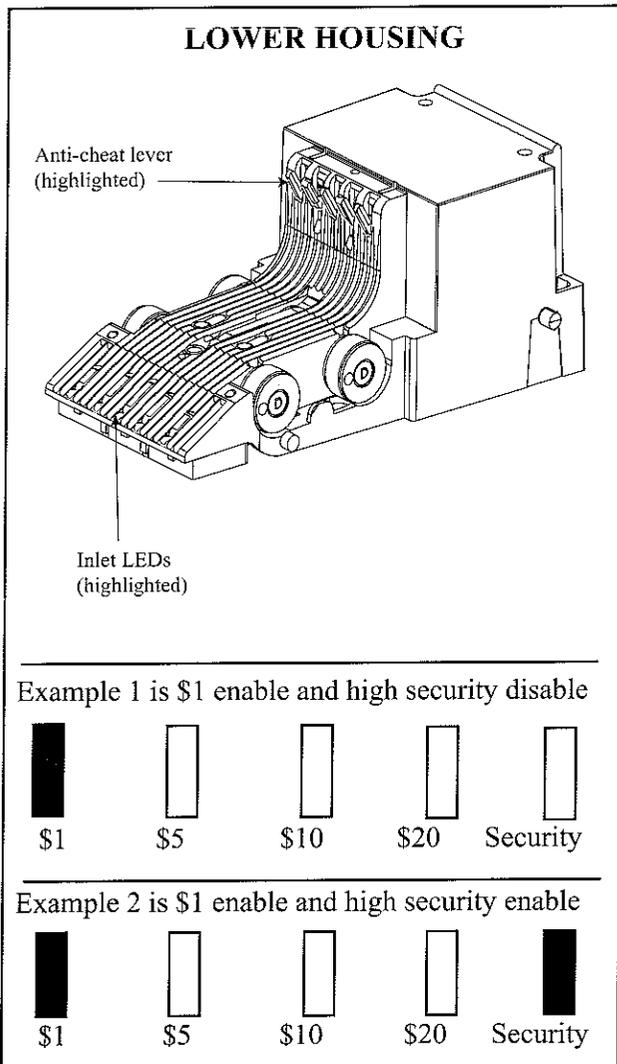


Figure 1

## CLEARING JAMS & CLEANING

(See Figure 2)

- Dirt or debris can result in poor bill acceptance or bill rejection.
- Remove the bill box and lower housing to access the bill path for dirt or debris.
- Clean the bill path plastic parts and belts with a cloth moistened with a mild soap and warm water solution.
- Clean the magnetic head using isopropyl alcohol.

**\* Do not use any petroleum based cleaning solvents, scouring pads or stiff brushes for cleaning. The BillPro™ bill acceptor requires no lubrication at any time.**

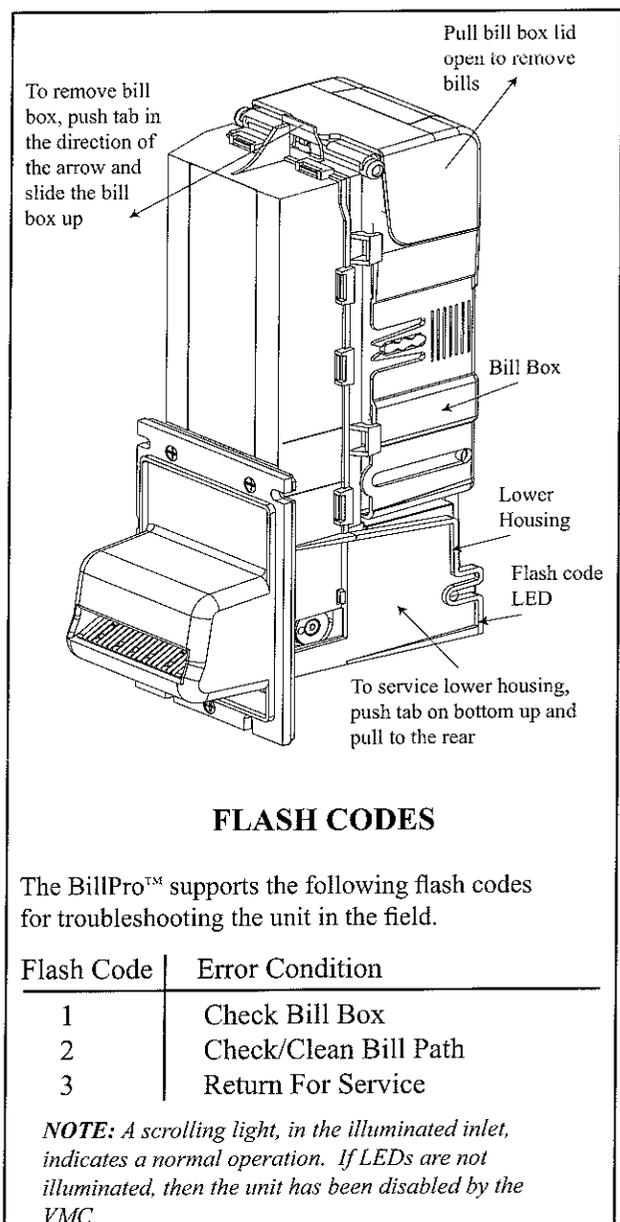


Figure 2

## VERIFY INSTALLATION

1. Power up the vending machine and observe the display of the ePort EDGE.
2. Once the ePort EDGE unit has initialized it will verify the signal strength and confirm the ePort EDGE is receiving proper messages to accept card transactions with the vending machine.
3. After the ePort EDGE is properly activated with USALive you can perform a test vend with a credit card.
4. Contact USAT Customer Care if you have any questions - 888.561.4748.

### USA TECHNOLOGIES RMA

#### (Return Merchandise Authorization) Procedure

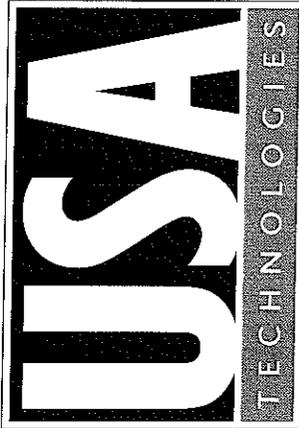
Should you have technical problems with any USA Technologies parts, please call the Help Desk at 1-888-561-4748 so that we can send you a RMA Form to complete and submit. We can issue RMA numbers between 8 AM and 5:30PM Eastern, Monday through Friday.

You may also email us at [customerservice@usatech.com](mailto:customerservice@usatech.com). Please be sure to include the following in your email: part #, number of parts returning and as much detail as possible about the problem you are experiencing. A Technical Support Representative will contact you.

All parts should be returned to the following address:

**USA Technologies Inc.**  
Attn: RMA # XXXXX  
24 Spring Mill Drive  
Malvern, PA 19355

Please do not return parts without a RMA number. This could cause a significant delay in having your parts examined.



24 Spring Mill Drive  
Malvern, PA 19355

## CONTACT INFO

### USA TECHNOLOGIES CUSTOMER CARE

Contact USA Technologies Customer Care for technical support and to request information and pre-authorization forms.

**Phone:** 888.561.4748

**FAX:** 610.989.9695

**Web:** <http://www.usatech.com>

**Email:** [customersupport@usatech.com](mailto:customersupport@usatech.com)

### USA TECHNOLOGIES WEBSITE ADDRESSES

Launch your web browser and enter the addresses below for:

#### Manuals and Activation Forms

<http://www.usatech.com/manuals>

#### Customer Website Login

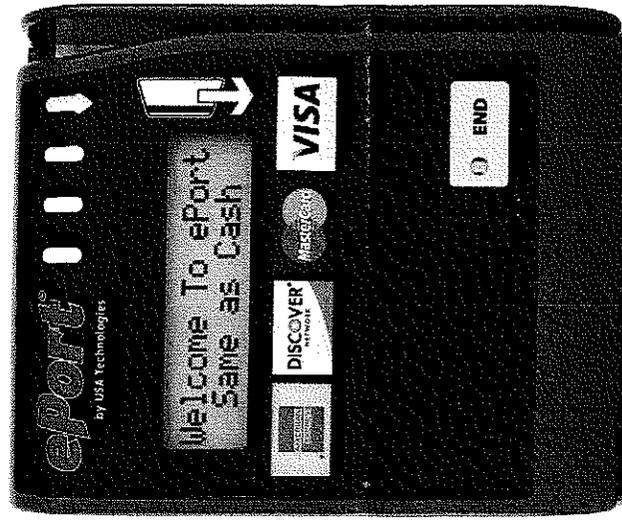
<http://usalive.usatech.com>

**#V9XUD0101437 REV-C**

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# USA Technologies ePort EDGE® CDMA QUICKSTART GUIDE



Thank you for purchasing an ePort EDGE®. Before you start, please read the instructions thoroughly, and then take a few moments to plan your installation. Pick a mounting spot that will allow for ease of access and will not interfere with any moving parts in your vending equipment.

You must have a signed ePort Connect Services Contract and bank account assigned to this device for it to be able to accept credit card transactions.

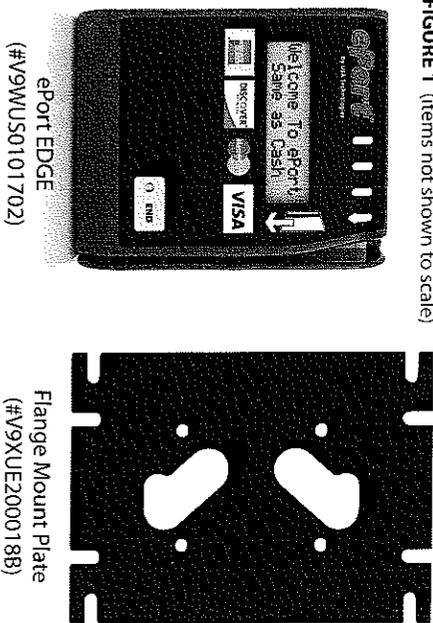
Please call USA Technologies' Customer Care at 1.888.561.4748, if you need activation documents.

## EPORt EDGE KIT

Your ePort EDGE kit (#VXWJUT0101702) includes:

- One ePort EDGE with wireless modem (#V9WUS0101702)
- One Flange Mount Plate (#V9XUE200018B)
- One Magnetic Base Antenna (#V8WUP0101276)
- Bag of Screws (#DCHZMPP63206)
- The Wraps (#DCITN101E15E)
- One DEX Cable (#V9DUC0101262)
- One MDB Cable (#V9MUC0101391)
- Drill Guide (#V9XUD1435002) - not pictured
- Tri-Fold Quick Start Guide (#V9XUDD0101437)

**FIGURE 1** (Items not shown to scale)



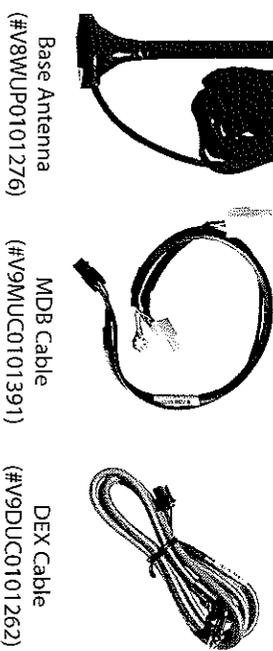
ePort EDGE  
(#V9WUS0101702)

Flange Mount Plate  
(#V9XUE200018B)



The Wraps  
(#DCITN101E15E)

Bag of Screws  
(#DCHZMPP63206)



Base Antenna  
(#V8WUP0101276)

MDB Cable  
(#V9MUC0101391)

DEX Cable  
(#V9DUC0101262)

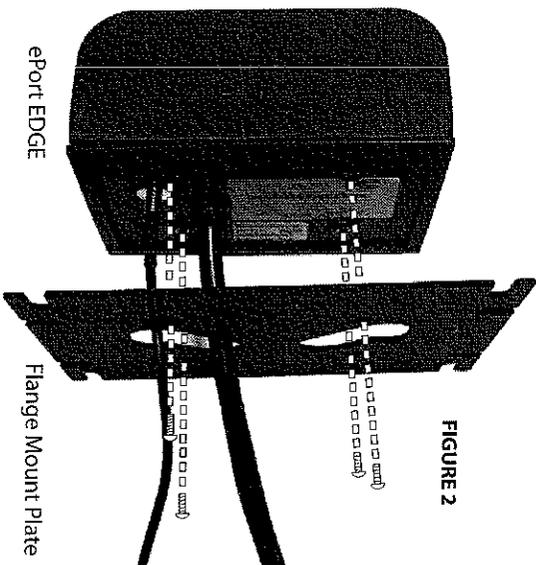
**⚠** To safeguard the unit from water damage, it is recommended that the device be mounted on a clean, flat surface to ensure uniform compression of the mounting gasket. Please note that the backside of the ePort EDGE is not water-tight, and should not be directly exposed to moisture.

## EPORt EDGE (with Wireless Modem) INSTALLATION

**Installation procedure for vending machines with a second opening that supports a bill acceptor.**

**Please note:** It's important the second opening has threaded standoffs that will support this type of installation. If it does not then a bracket will be required with these threaded standoffs.

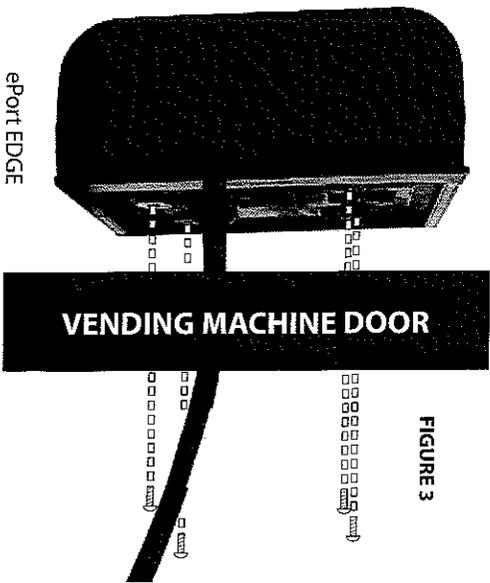
1. Power down the vendor door and decide if the bill acceptor needs to be removed for better access.
2. Route the ePort EDGE cable through the mounting plate and attach the mounting plate with the four supplied screws as shown in Figure 2.
3. Pass this assembly through the second opening of the door from inside the vendor, and attach the mounting plate to the door.
4. Connect the end of the EDGE MDB Cable that has only one plug to the EDGE pigtail cable. The other end of the MDB Cable has two connectors. These get connected between the Bill Acceptor and Coin Mechanism.
5. Attach the MDB Cable's ground cable to the metal housing with a self-tapping screw or if possible to an existing attached ground cable inside the vendor.
6. If using the EDGE to transfer DEX data, connect the DEX Cable to the DEX port on the vendor and to the serial connector on the EDGE, otherwise leave unplugged to prevent activation errors.
7. Connect the Magnetic Base Antenna with the MCX connector to the back of the ePort EDGE by pushing in the connector until it locks in place.
8. Mount the Magnetic Base Antenna inside the door as close to the front glass area of the vendor as possible for better reception. A common mounting spot is the upper inside of the door pointing down. Also, be sure to uncoil the antenna's cable for better reception.



**FIGURE 2**

**Installation procedure for vending machines without a second opening for a bill acceptor – you must mount the ePort EDGE on the outside surface of the vending machine:**

1. Power down the vendor door.
2. Using a small level, position and tape the Drill Guide where the ePort EDGE will be installed on the vendor door.
3. Drill the four 3/16" holes for the mounting screws.
4. Drill the pilot holes for the cable holes using a 3/8" bit.
5. Finish the 5/8" cable holes by using either a 41/64" Greenlee knockout punch (#7211BB-1/2) or a 1/4"-3/4" step drill (Mcmaster-Carr part no. 8841A23).
6. Route the ePort EDGE cable through one of the 5/8" holes.
7. Connect the end of the EDGE MDB Cable that has only one plug to the EDGE pigtail cable. The other end of the MDB Cable has two connectors. These get connected between the Bill Acceptor and Coin Mechanism.
8. Attach the MDB Cable's ground cable to the metal housing with a self-tapping screw or if possible to an existing attached ground cable inside the vendor.
9. If using the EDGE to transfer DEX data, connect the DEX Cable to the DEX port on the vendor and to the serial connector on the EDGE, otherwise leave unplugged to prevent activation errors.
10. Route the Magnetic Antenna cable through the other 5/8" hole and attach to the ePort EDGE by pushing in the MCX connector until it locks in place.
11. Align the ePort EDGE to the four 3/16" holes and attach by using the four supplied screws as shown in Figure 3.
12. Mount the Magnetic Base Antenna inside the door as close to the front glass area of the vendor as possible for better reception. A common mounting spot is the upper inside of the door pointing down. Also, be sure to uncoil the antenna's cable for better reception.



**FIGURE 3**