



SERVICE and PARTS MANUAL



INTRODUCTION

Congratulations on the purchase of your vending machine. This vending machine has been designed to give you many years of dependable service. It requires little maintenance and is easy to set up and operate.

READ THIS MANUAL COMPLETELY

Your vending machine is designed to operate simply and reliably, but to take full advantage of your vendor, please read this owner's manual thoroughly. It contains important information regarding installation and operations, as well as a brief trouble-shooting guide.

EQUIPMENT INSPECTION

After you have received your vendor and have it out of the box, place it on a secure surface for further inspection. **Note:** Any damages that may have occurred during shipping must be reported to the delivery carrier immediately. Reporting damages and the seeking of restitution is the responsibility of the equipment owner. The factory is willing to assist you in this process in any way possible. Feel free to contact our Customer Care Department with questions you may have on this process.

It is important that you keep the original packaging for your vending machine at least through the warranty period. If your machine needs to be returned for repair, you may have to purchase this packaging if it is not retained.

Once you have your vendor located, we suggest that you keep this manual for future reference, or you can view this manual online at www.seaga.com. Should any problems occur, refer to the section entitled "TROUBLESHOOTING". It is designed to help you quickly identify a problem and correct it.



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SPECIFICATIONS

The vending machine is comprised of two (2) units - Snack Unit (SM16S) and Beverage Unit (SM6RD). Installation and setup of these units is explained in the next sections of this manual.

Machine Description	Snack Unit	Beverage Unit
Model Number	SM16S	SM6RD
Height (in)	28.5" (72 cm)	41" (104 cm)
Width (in)	30.2" (77 cm)	30.2" (77 cm)
Depth (in)	28.5" (72 cm)	28.5" (72 cm)
Volts (V)	115 (230)	115 (230)
Frequency (Hz)	60 (50)	60 (50)
Watts (W)	60 (220)	360 (1150)
Current (A)*	0.5	3.0

* - Current draw varies depending on Operating Conditions and Load and are subject to change.

The vending machine is designed for use in indoor conditions only. The recommended operating environment is 75° F and 40% RH.

OVERVIEW

This manual covers Installation, Setup, Programming and Service instructions. It is extremely important that this manual be read thoroughly prior to commissioning the vending machine in the field. This will ensure a satisfactory long-term performance.

The vending machine consists of two (2) separate cabinets that are installed together via mechanical means and connected via electrical connections to operate as ONE unit.

The Snack Vendor (SM16S) consists of two (2) trays. The first and second trays have 4 selections each (Tray 1 – 111, 113, 115, 117, Tray 2 – 121, 123, 125, 127). The third tray has 8 selections (131 through 138). The top two trays are normally used for products that are wider such as chips, pastries etc. and the third tray is used for Confectionary items such as candy bars. The Snack Vendor (SM16S) also houses all the payment mechanisms and electronic Vending Machine Controller (VMC) on the right side of the cabinet, as shown in Figure 19. The payment mechanisms, electronic components (such as VMC) and transformer are installed on a vertical shelf that slides out for easy access. The connectors to connect the Beverage Unit (SM6RD) are also provided in this vertical shelf of the Snack Vendor (SM16S).

The Beverage Vendor (SM6RD) is designed with a vertical drop system. The Beverage Vendor also houses the removable Refrigeration System. The cabinet of the Beverage Vendor has a delivery system that has 6 selections for Cans or Bottles (140 through 146). The loading instructions are given in subsequent sections. The refrigeration system is installed at the bottom of the Beverage Vendor and there is a foamed separation between the cabinet interior and the refrigeration system. The installation, setup and functionality of the refrigeration system is explained in the section titled Refrigeration.

RECEIVING, INSPECTION, UNPACKING AND TESTING

After you have received your vending machine, inspect all three individual vendor components. **Note:** Any damages that may have occurred during shipping must be reported to the delivery carrier immediately. Reporting damages and the seeking of restitution is the responsibility of the equipment owner. The factory is willing to assist you in this process in any way possible. Feel free to contact Seaga Customer Care with questions you may have on this process. Once you have your vending machine located, we suggest that you keep this manual for future reference.

The vending machine is placed on a wooden pallet and stretch-wrapped. Please exercise caution while cutting into the stretch-wrap with a sharp tool such as a utility knife, as it may cause scratch marks on the machine.

The Snack and Beverage Units are boxed in two (2) separate cardboard boxes. The Snack Unit box is placed on top of the Beverage Unit. After removing the stretch wrap, remove the Snack Unit and place it aside. **USE EXTREME CAUTION AS THE TOP OF THE BOX IS NOT ATTACHED TO THE BOTTOM OF THE BOX.** The top of both the snack and beverage units slide up for removal. Remove the Beverage Unit from its box and place it in the desired vending location. Remove the Snack Unit from its box and place it on top of the Beverage Unit carefully. Please use proper lifting and safety precautions while placing the Snack Unit on top of Beverage Unit.

Open all Unit doors and remove the packing materials. Keys can be found in the white envelope placed in the vend area of the Snack Unit. Remove the tape on the tray levers of the Snack unit. Also remove the protective paper from under each coil as well as ties securing the ends of the coils during shipping. Remove all protective plastic from the window lenses.

Remember: at least two people are necessary to move any of the components of the vending machine. Follow proper safety standard for lifting and working with electronic/refrigerated equipment.

INSTALLATION

Once the machines have been unpacked and placed in their permanent location, the electrical connection and mechanical connection must be made. Tools required: Adjustable wrench and Philips screwdriver. For optimal installation, follow the order of connections as outlined below:

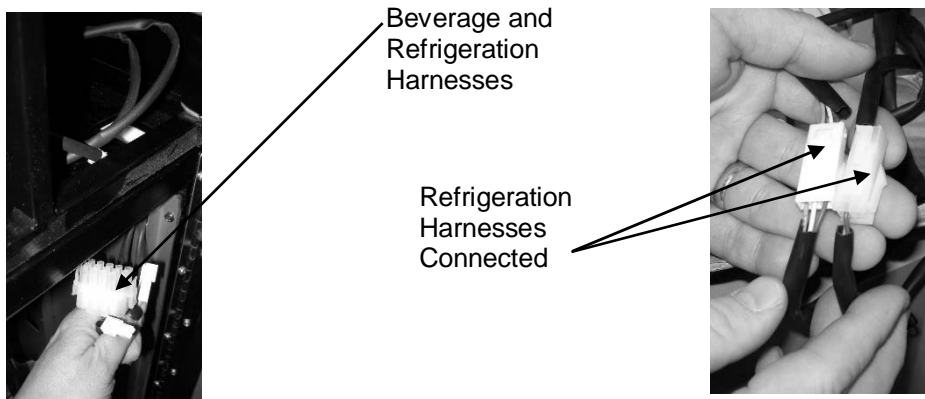
1. Mechanical Connection between Snack and Beverage Units:

The Snack and Beverage units must be screwed together for safety purposes. Two screws are provided in the white envelope found in the vend area of the Snack unit. Square the fronts and sides of the Snack and Beverage units. Open the Snack unit door and locate the two holes at the bottom of the unit. Insert both screws and tighten.

2. Electrical Connection between Snack and Beverage Units and Beverage Display Lighting Connection:

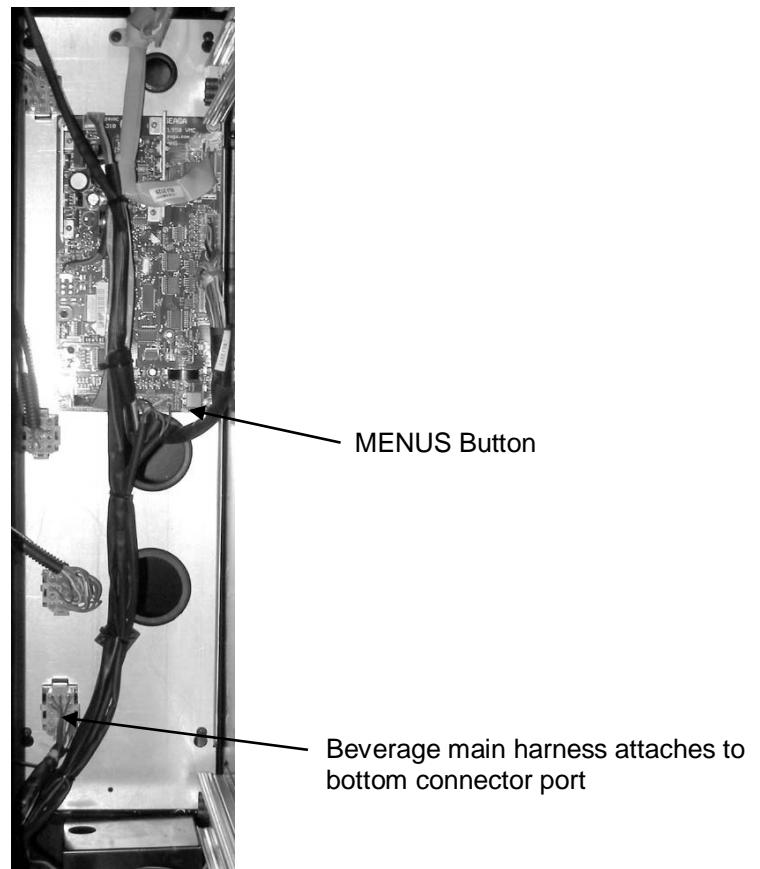
Remove the Styrofoam insert from the opening in the upper right corner of the beverage unit and save this for reinsertion. Open the Beverage unit door and locate the beverage main harness and refrigeration harnesses. See Figure 1. Insert harnesses through the opening up into the Snack cabinet, see Figure 2.

Figure 1 – Beverage and Refrigeration Harnesses Figure 2 – Inserting Beverage and Refrigeration Harnesses



Connect the refrigeration harnesses to the two connectors found in the snack unit that are tied together, see figure 2 above. (Note: the single harness located inside the snack unit is for the LED lighting which is the next step).

Figure 3— Making Drink Connections



The Beverage Unit has a live product display that is lit by LED lighting. Locate the LED Light harness on the inside of the Beverage Unit Door. Insert the LED Light harness up through the Snack Unit as done for the other connections. Connect the LED Light harness to the main board connection as shown in Figure 4.

Reinsert the Styrofoam piece for maximum insulation of the refrigeration unit.

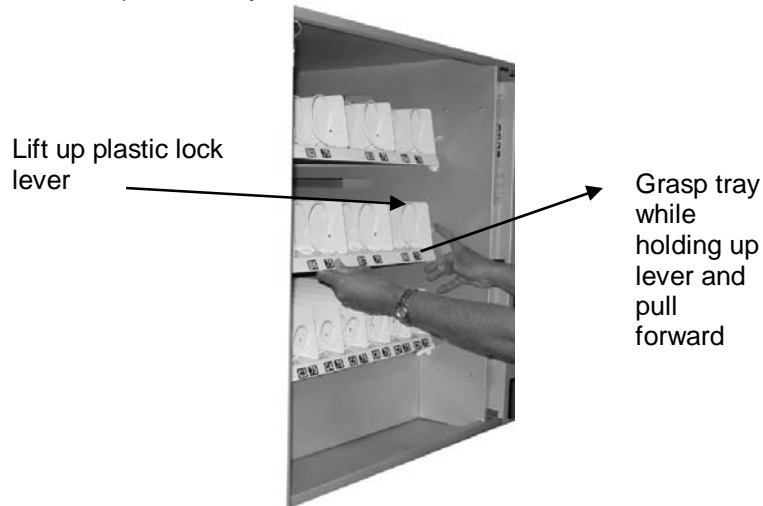
Figure 4 – Beverage Display LED Light harness connection in Snack Unit



LOADING PRODUCT TRAYS

Open the front door of vendor, and lift up the plastic lock lever on the right side of the tray to unlock. Holding the lever up, grasp the tray and lift the front of the tray slightly and pull forward. The tray will slide out and then tilt down to make loading of products easier. Load only one product tray at a time (See Figure 5).

Figure 5 – Slide-out product trays



1. To Load Product in Snack Unit:

- a. Pull the desired product tray all the way forward. Product tray will tilt down.

Note: Pull out only one (1) product tray at a time

- b. Place product in proper size coil.

Note: Bottom of product must rest on the product tray and not on the Coil. Load each column from back to front.

Note: Fill all product trays fully; do not leave any spaces behind or between items

- c. Once product tray is fully loaded, lift and push it back in.

Repeat steps a through c until all product trays are fully loaded. Special Note: We suggest that you always partially fill the tray with product and perform at least five (5) test vends. Test vends can be performed easily by entering Service mode and using the test function.

PRODUCT LOADING

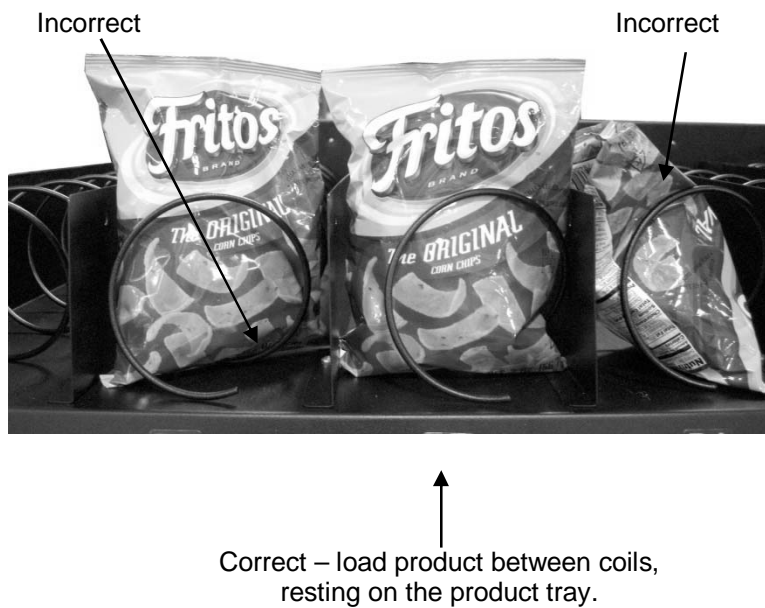
Snack Unit

Wide products such as Chips bags etc. are loaded in Tray 1 and Tray 2. Narrow products such as Candy bars are loaded in Tray 3. See Figures 6a and 6b.

Figure 6a – Loading Product



Figure 6b – Loading Product

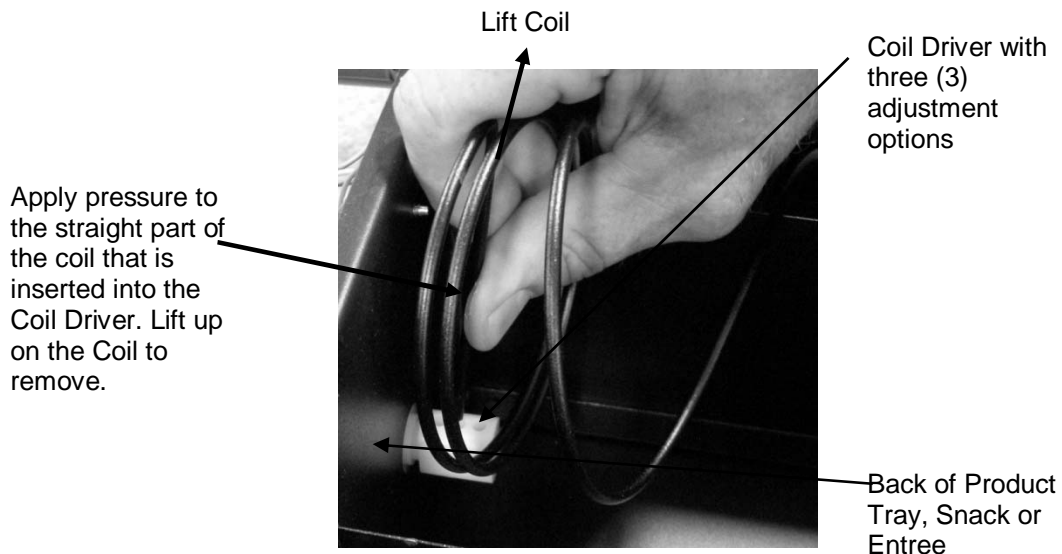


COIL ADJUSTMENT

If you are required by a location to vend a product that does not fit into the standard coil installed, you may need to order a different coil and install it. To replace a coil:

1. Remove the Coil from the Coil Driver by lifting the back of the coil up off the coil driver. You will need to move the bottom of the coil clear of the coil driver to completely remove the coil. See Figure 7.
2. Align the new coil end with the front of the tray, which gives the coil better contact with the product. The position of the coil in the coil driver is adjustable to assist you in aligning the new coil at the front of the tray. See Figure 7.

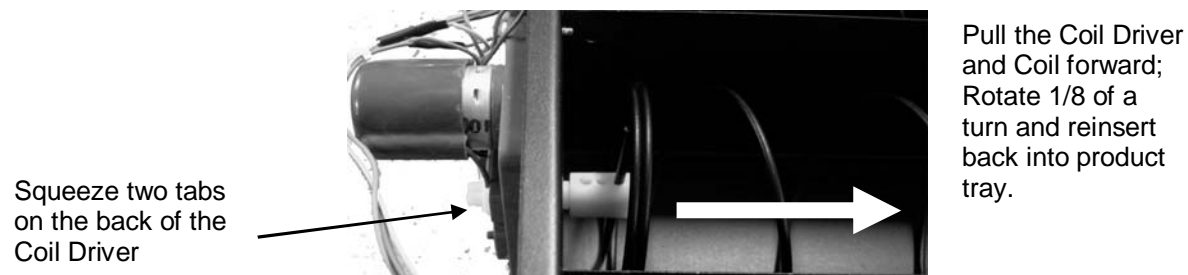
Figure 7 – Removing and Aligning a Coil



If you are experiencing vending issues with certain products, you may need to adjust the coil rotation to better provide the momentum to push the snack off the tray and into the delivery area. To adjust the coil rotation:

- 1.) Squeeze the two tabs on the back of the coil driver and pull the coil driver and coil toward the front of the tray to remove it.
- 2.) Turn the coil clock-wise 1/8 of a rotation.
- 3.) Reinsert the coil driver with coil attached back into the motor, through the back wall of the tray.
- 4.) Load the tray and perform at least 5 (five) test vends to insure a proper vend.
- 5.) If the item does not vend consistently, repeat another 1/8 of a rotation until you are confident of consistent vend function.

Figure 8 – Coil Rotation Adjustment



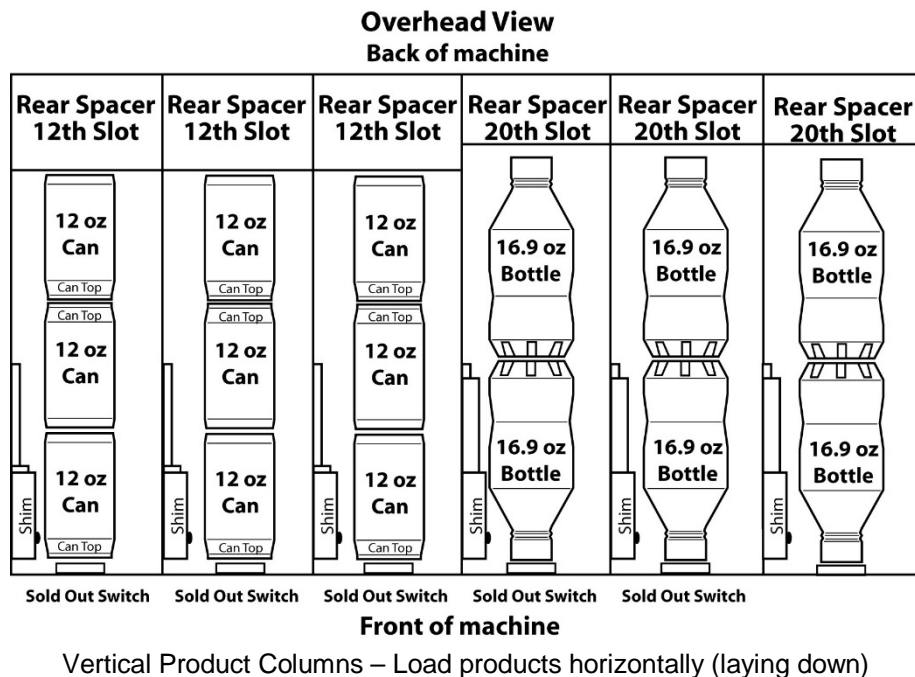
BEVERAGE UNIT

The Vertical Drop Columns in your machine use an Auger that rotates counter-clockwise to drop the drink into the Product Bin. The columns employ the use of a combination of metal Shims to hold the front-most product from dropping during the first vend. On the second vend, the Auger rotates counter-clockwise further and allows the front product to vend. A third rotation occurs only if the column is set for cans. The combination of Auger, Shim(s) and Rear Spacer position allow for different sizes and types of product packaging.

To control the rotation of the Auger, there is a Home Switch located behind each vertical drop column motor. There are Cams installed on the front of each auger, one for bottles and one for cans. The lobes on these cams determine the stopping point of the Auger for each vend.

Figure 9 below is an illustration of the factory default settings for each column. Be aware that each column has been set for specific brands of products in the size listed. Note that columns are marked for “CANS” and “BOTTLES” with labels on the interior beverage door:

Figure 9 – Vertical Drop Columns



1.) For most bottles, place top of the first bottle against the front of the column, making sure the Sold Out Switch is depressed. Place the second bottle to the rear of the column, facing the bottom of the bottle with the bottom of the first bottle. See Figure 9. Load 12 oz. cans bottom to bottom in the first two positions, then top to top in the back position. Load 16 oz. cans bottom to top. 20 oz. Gatorade bottles are loaded bottom to top.

2.) To adjust the rear spacer, grasp firmly and lift, freeing the spacer from the slots in the column sides. Move the rear spacer to the closest slot to the back of the bottle or can placed in the rear of the column. Insert the bottom left corner first. The gap between the rear spacer and the rear bottle or can must be less than ½ inch. The slots are in ½ inch increments to let you adjust for many sizes of products. Lower the rear spacer into the new position, making sure the spacer is straight vertically.

3.) Finish loading to the top of the column, making sure the items are perfectly horizontal and not tilted or skewed in the column.

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

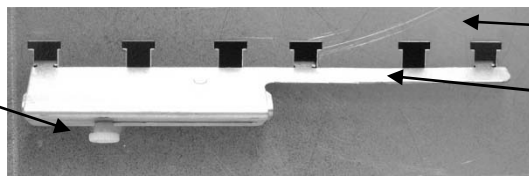
Product	Size	Type	Max Capacity	Loading Instructions	Home Switch Mounting Ring Position	Shim Position	Rear Spacer Position
Coca-Cola and varieties	16.9 oz/500 ml	Bottle	16	Load bottom to bottom	5	Open	20
Nesquik	14 oz/414 ml	Bottle	16	Load bottom to bottom	4	Half Open	9
Pepsi, Diet Pepsi, Mt. Dew and varieties	16.9 oz/500 ml	Bottle	16	Load bottom to bottom	5	Open	20
7 up and Diet 7up	16.9 oz/500 ml	Bottle	16	Load bottom to bottom	5	Open	20
Dr. Pepper, Diet and varieties	16.9 oz/500 ml	Bottle	16	Load bottom to bottom	5	Open	20
Gatorade	12 oz/355 ml	Bottle	18	Tops to front of machine	4	Open	14
Water - Nestle Pure Life, Ice Mountain, Zephyrhills, Ozarka, Deerpark, Deja Blue	16.9 oz/500 ml	Bottle (soft)	16	Load bottom to bottom	5	Open	15
Kick Start, Monster, Rock Star, etc.	16 oz/473 ml	Can	18	Load bottom to bottom	5	Open	19
Standard size 12 oz. cans	12 oz/355 ml	Can	21	Bottom to bottom then top to top	4	Closed	12
Vitamin Water	20 oz/591 ml	Bottle	18	Tops to front of machine	2	Closed	14
Sobe Bottle	20 oz/591 ml	Bottle	18	Tops to front of machine	2	Closed	14
Starbucks Double Shot, V8 Vfusion	8.4 oz/248 ml	Can	24	Bottom to bottom then top to top	3	Kit Required	8
Large bottles, 24 oz. plus	24 oz/710 ml	Bottle	Na	Do not vend	Na	Na	Na
Gatorade	20 oz/591 ml	Bottle	18	Tops to front of machine	2	Closed	14
Aquafina	20 oz/591 ml	Bottle	14	Load bottom to bottom	4	Closed	15
Red Bull	8.4 oz/248 ml	Can	24	Bottom to bottom then top to top	3	Kit Required	8

By adjusting the Shims and/or changing the cams any column can be converted to cans or bottles. Contact Technical Support if you need assistance.

The shim positions are adjustable in each column and are factory set as shown below.

Shim position – 12 oz. cans

Thumb screw

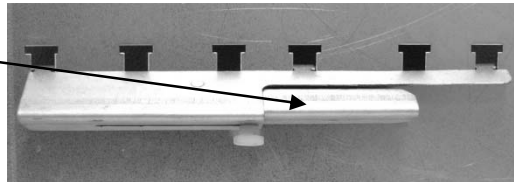


Side Wall

Adjustable Shim

Shim position – 16.9 oz bottles and cans

Adjustment Bar



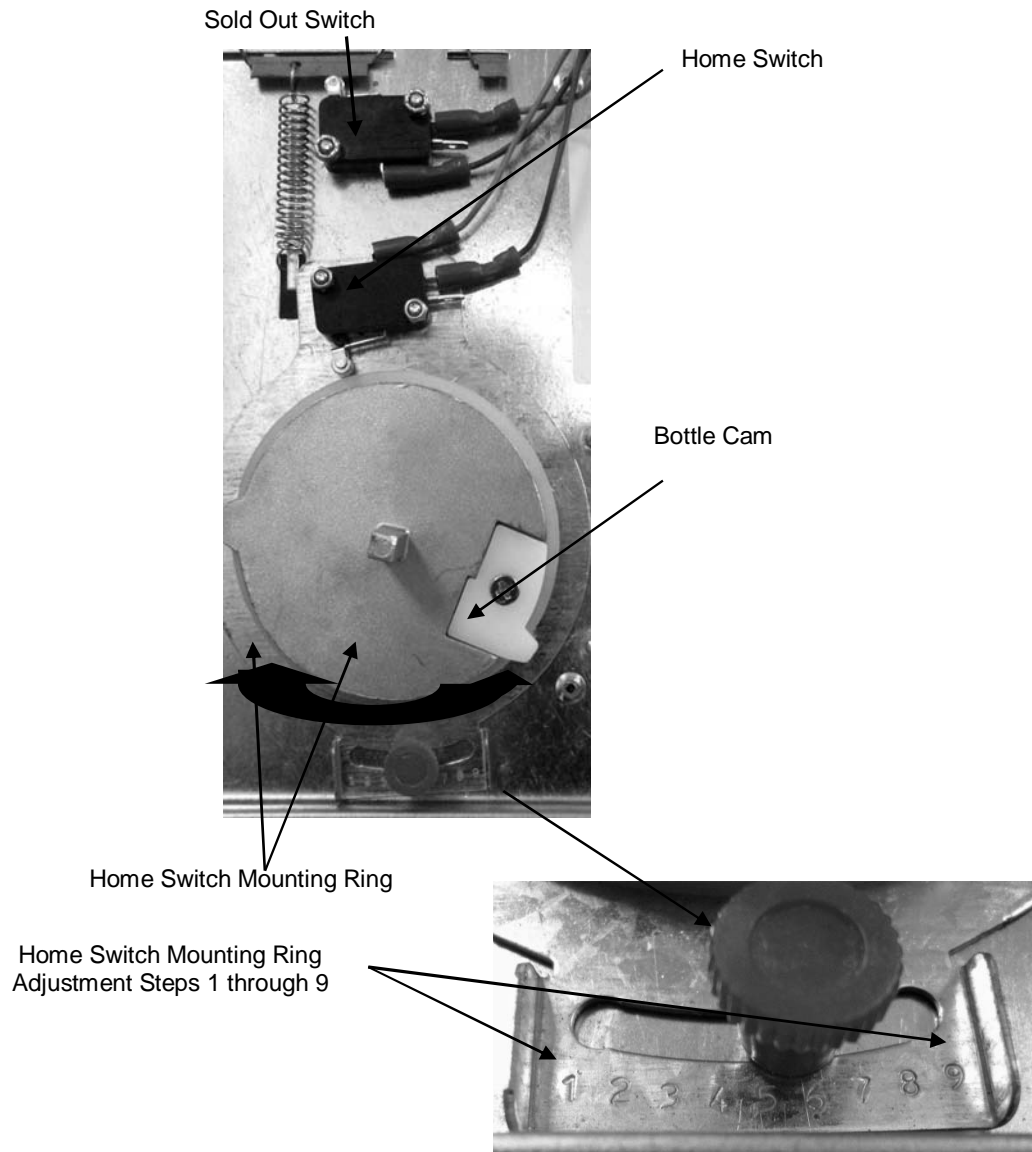
To adjust the shim, loosen the thumb screw **ONLY SLIGHTLY** and slide the adjustment bar to the correct position. Tighten the thumb screw. Unusually shaped product may take some testing, trial and error to determine the correct adjustment.

Specialty kits for Red Bull and other packaging are available for purchase from Seaga's Parts Department, by contacting us via email at parts@seaga.com. Specialty kits are not included.

Home Switch Adjustment

Due to variance in product sizes, it may be necessary to adjust the position of the Home Switch. This can be accomplished by rotating the Home Switch Mounting Ring clockwise or counter-clockwise in one step increments to adjust the stop position of the Auger. There are 9 adjustment increments etched into the Home Switch Mounting Ring as shown in Figure 10:

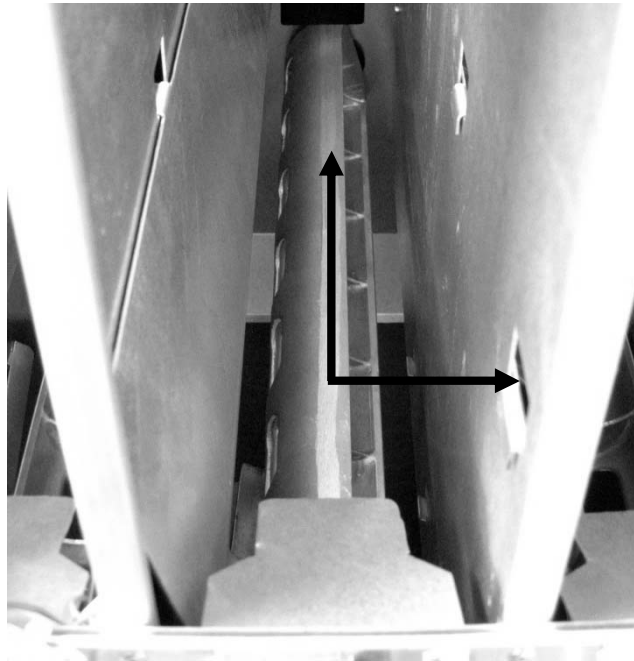
Figure 10 - Front of one vertical drop selection; motor removed



To make adjustments:

- 1.) With the column empty, test vend the selection to rotate the Auger until the opening faces the 3:00 o'clock position (Figure 11). ***This is the beginning of the vend cycle and the Home position of the auger.***

Figure 11 – Auger in Home position with opening facing 3:00



- 2.) Load a single row of drinks on top of the Auger
- 3.) Perform a single test vend – if no product drops, the Auger did not turn far enough. Adjust the Home Switch Mounting Ring counter-clockwise one notch only.
- 4.) If two products drop on the first vend in Step 3, the Auger turned too far. Adjust the Home Switch Mounting Ring clockwise one notch only.
- 5.) Go back to Step 2, noting that one and only one product should drop. If this is a 12 oz. can column, test three times to insure that all three products drop correctly.

Fill the column to the top and run a full cycle one more time, as the weight of a full column may change the dynamics of the vend operation. If a full cycle vends one product per vend, the column is set correctly

Figure 12– Can Cam and Bottle Cam (Bottle Cam shown Installed on Auger)

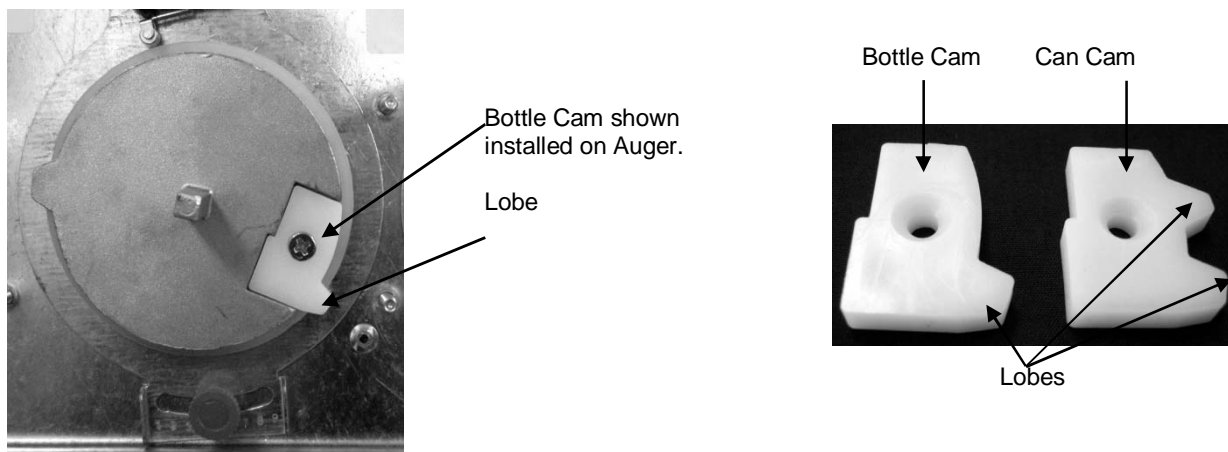
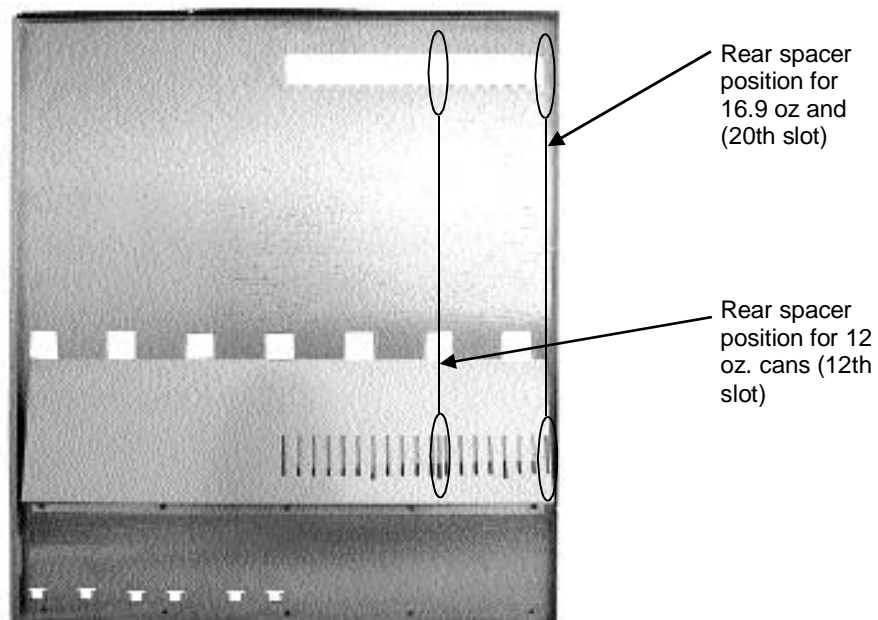


Figure 13 – Rear Spacer Adjustment



You may need to adjust due to product height variance.

Figure 14 - Rear Spacer

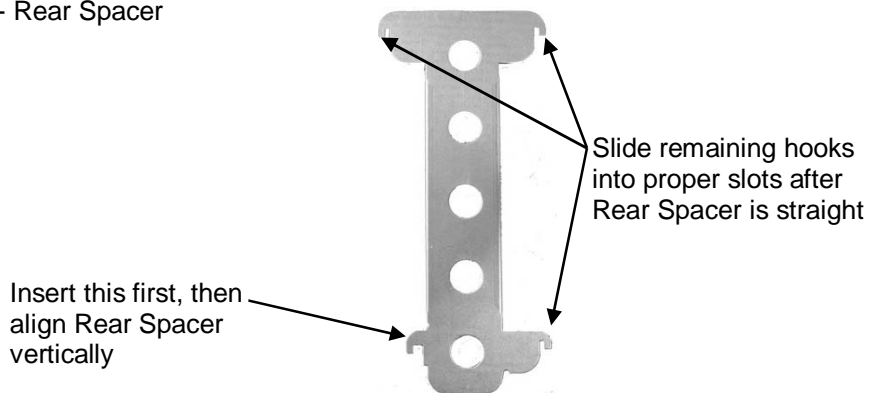
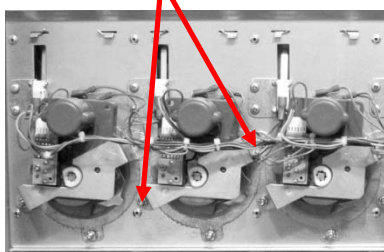


Figure 15 – Removing Vertical Drop Motors and Auger System

Note: Always unplug the vending machine from the wall before replacing any parts.

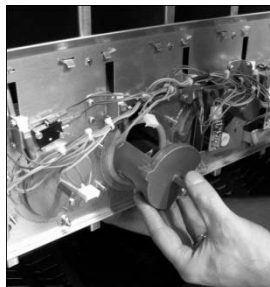
Remove two fasteners holding in motor/bracket.



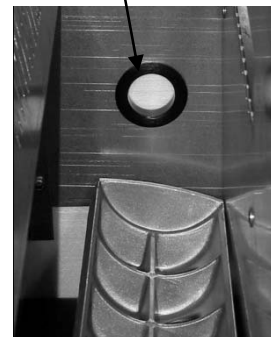
If replacing motor, unplug the wire harness and slide motor off shaft.

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

Remove Auger by pulling straight out...



Insure that rear Auger Bushing does not become disengaged from back of column



LIVE DRINK PRODUCT DISPLAY

Your machine has a live 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:

- 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 machine where the customer will see them.
- 3.) Reinstall the beverage back panel.

Note: you may wish to apply double sided tape to the bottom of the drink packages to keep them in place when the door is opened and closed.

DISPLAY

The LCD Display (Fig. 16) is a two line, 20 character text display panel located on the front of your vending machine. The display interacts with the customer to show the amount of money entered into the vendor and the cost of their selection among other information as programmed. The display also shows the operator the Service Mode functions for setting the vendor.

Fig. 16 – LCD Display in Sales Mode

Display Formats	When in Sales Mode Top Line of Display Reads
Normal Operation, no credit available	Point of Sale Message
Normal Operation, some credit available	\$00.01 – 99.99
After Pressing a selection, if there is no credit or the credit is less than the selection's price, the price of the selection is displayed for a few seconds before reverting to one of the above credit display formats. (If a coin or other payment is made the display reverts immediately to display the credit available)	Price \$00.01 – 99.99
Free Vend Mode (all prices set to zero)	Free Vend
If a selection is out of stock when a selection is pressed – this is displayed for a few seconds	Sold Out
All Items out of stock	Sold Out
Machine Out Of Order	Out of Order
During a Vend (Progress bar, dashes)	-----
Exact Change required	Exact Change Only
Temperature Display Press the # key to display	T1* ##F (C)

Date and Time are always displayed on the second line in Sales Mode. If a calorie value is set for a selection, the value will be displayed when the product is vended or when a selection is made without any credit.

KEYPAD

1	2	3
4	5	6
7	8	9
*	0	#

* = Exit or Next

= Save

SERVICE MODE

The operation of the machine can be adjusted by entering service mode by pressing the MENUS button on the VMC circuit board and then accessing the appropriate operation. Price setting, audit display and operating modes can be read and adjusted from here. The user can also perform tests on the machine through this mode. Note: any Credit will be cancelled on entry to Service Mode.

SERVICE MODE NAVIGATION

Use the 0 through 9 keys to access the various menus and sub-menus.

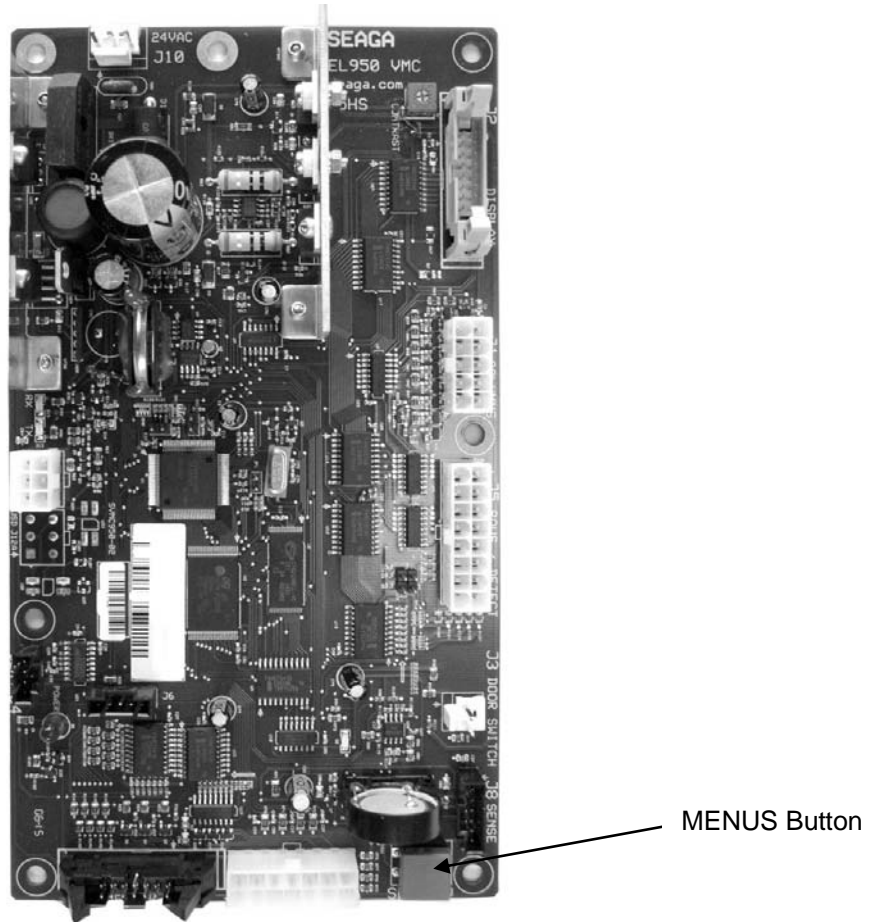
Use the “*” key on the keypad to Exit without changing or to go back (Previous).

Use the “#” key on the keypad to Save.

VMC – VENDING MACHINE CONTROLLER

Enter Service Mode by pressing the MENUS Button on the VMC Circuit board. (Fig. 17)

Figure 17 – VMC and Menus Button



1. PRICE PROGRAM

Price Program is used to set the prices for All Items, by Row or by individual Selection. Save time and set All Items to the most common price, going back to Row or Selection for different prices as required.

ALL ITEMS

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 1 for Price Program	Price Program
3.	Press 1 for All Items	All Items: \$--.-- (flashes current price) *-Exit, no change
4.	Use number keys to enter new price	All Items: (New Price) *-Exit, no change #Save Press # to Save
5.	Press * two times to exit to Sales Mode	Price Program

ROW

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 1 for Price Program	Price Program
3.	Press 2 for Row	Row: -- \$--.-- Use keypad to choose Row. *-Exit, no change
4.	Use keypad to choose Row. Use number keys on the keypad to set new price, including cents.	Row: (New Row and Price) *-Exit, no change #Save
5.	Press * two times to exit to Sales Mode	Price Program

SELECTION

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 1 for Price Program	Price Program
3.	Press 3 for Selection	Selection: -- \$--.-- *-Exit, no change
4.	Use alpha and number keys on the keypad to choose one Selection. Use number keys on the keypad to set new price, including cents.	Selection: (New Selection and Price) *-Exit, no change #Save
5.	Press * two times to exit to Sales Mode	Price Program

2. CASH COUNTERS

Cash Counters displays the total vend count and the total sales value for the machine, for All Items, by Row or by individual Selection. Note: The resettable counters can be cleared.

ALL ITEMS

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 2 for Cash Counters	Cash Counters
3.	Press 1 for All Items	All Items
4.	Press 1 for Historical Count	Hist Count --
5.	Press 2 for Historical Cash	Hist Cash \$--.--
6.	Press 3 for Reset Count	Res Count --
7.	Press 4 for Reset Cash	Res Cash \$--.--
8.	Press 5 for Historical Card	His Card \$--.--
9.	Press 6 for Reset Card	Res Card \$--.--
10.	Press 7 for Clear	Clear? *-Exit, no change #Clear Display shows Cleared

ROW

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 2 for Cash Counters	Cash Counters
3.	Press 2 for Row	Row: -- Use keypad to choose Row.
4.	Press 1 for Historical Count	Hist Count --
5.	Press 2 for Historical Cash	Hist Cash \$--.--
6.	Press 3 for Reset Count	Res Count --
7.	Press 4 for Reset Cash	Res Cash \$--.--
8.	Press 5 for Historical Card	His Card \$--.--
9.	Press 6 for Reset Card	Res Card \$--.--
10.	Press 7 for Clear	Clear? *-Exit, no change #Clear Display shows Cleared

SELECTION

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 2 for Cash Counters	Cash Counters
3.	Press 3 for Selection	Selection – Use alpha and numeric keys to choose an individual Selection
4.	Press 1 for Historical Count	Hist Count --
5.	Press 2 for Historical Cash	Hist Cash \$--.--
6.	Press 3 for Reset Count	Res Count --
7.	Press 4 for Reset Cash	Res Cash \$--.--
8.	Press 5 for Historical Card	His Card \$--.--
9.	Press 6 for Reset Card	Res Card \$--.--
10.	Press 7 for Clear	Clear? *-Exit, no change #Clear Display shows Cleared

3. QTY/TUBE

Enter this menu when priming the changer with coins. As you load coins from the front door in the coin slot, this menu will keep track of the quantity and monetary amount which enables the VMC to know that change can be made during sales transactions.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 3 for Qty/Tube	Qty/Tube : X/\$--.-- (Current Quantity and Total)
3.	Press * two times to exit to Sales Mode	0.00

4. CONFIGURATION

The following sub-menus are included in the Configuration Menu:

- Date/Time
- Health Safety
- Language
- All Items – Type
- Row – Type
- Selection – Type
- Auto Reinstatement
- StS
- StS Custom
- Advanced Config*

DATE/TIME

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 1 for Date/Time	Date/Time
4.	Press 1 to change Date	MM/DD/YY current setting *-Exit, no change #-Edit Use number keys to enter new date
5.	Press 2 to change Time	HH:MM current setting *-Exit, no change #-Edit Use number keys to enter new time
6.	Press 3 to change DST (Daylight Savings time)	DST ON/OFF *-Exit, no change 3 – Toggle On/Off. Press # to Save
7.	Press * two times to exit to Sales Mode	0.00

HEALTH SAFETY – Not Used in this model.**LANGUAGE**

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 3 for Language	Language English *-Exit, no change 3 – Edit 3 to Toggle between English and Spanish Press # to Save
4.	Press * two times to exit to Sales Mode	0.00

ALL ITEMS: TYPE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 4 for All Items: Type *NOTE: This should ALWAYS be set on Snack; setting to other Types will cause vend failure.	All Items: Snack, Can or Bottle *-Exit, no change 1 – Edit 1 to Toggle Press # to Save
4.	Press * two times to exit	0.00

ROW: TYPE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 5 for Row: Type *NOTE: This should ALWAYS be set on Snack; setting to other Types will cause failure.	Row – Use alpha keys to enter Row *-Exit, no change 1 – Edit 1 to Toggle Snack, Can or Bottle Press # to Save
4.	Press * two times to exit	0.00

SELECTION: TYPE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 6 for Selection: Type* *NOTE: The Selection Type has been set by the factory and should be as follows: Selections 111 through 117 – Snack Selections 121 through 127 – Snack Selections 130 through 137 – Snack Selections 140 through 146 – Sold Out	Selection – Use alpha and number keys to enter Selection *-Exit, no change 1 – Edit 1 to Toggle Snack, Can, Bottle or Sold Out Press # to Save
4.	Press * two times to exit	0.00

AUTOREINSTATE – Not used in this model.

CUSTOM SPACE TO SALES (StS)

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 9 for StS	StS --: (Current setting) *-Exit, no change 8-Edit
4.	Press 6 to toggle to Custom	StS Custom *-Exit, no change # to Save
5.	Press * to return to Configuration menu	Configuration
6.	Press 9 to return to StS Menu	StS ---: *-Exit
7.	Enter first Selection	StS XXX: (Current Selection) *-Exit, no change # to Save 1 to Clear?
8.	Press 1 to clear links menu	XXX: Clear links? *-Exit, no change # to Clear?
9.	Press # to clear current links settings	XXX: Cleared *-Exit, no change # Add 1 – Clear
10.	Press # to add new selection	XXX:--- *-Exit, no change
11.	Enter next selection	XXX:YYY *-Exit, no change # Add
12.	Press # to add another selection (to enter more selections, repeat steps 10 and 11)	XXX:YYY, ZZZ (The display shows the selections you have entered. After 3 selections, the screen will scroll.)
13.	Press * two times to exit	0.00

5. ADVANCED CONFIG*

A password is required to enter this menu. The factory default password is 2314. The following menus are available under this sub-menu:

- Beep Enable
- Optics Disables
- Motor Type
- Temp
- Selection Style

BEEP ENABLE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 0 for Advanced Config	Password: Use keypad to enter password
4.	Press 1 for Beep Enable menu	Beep Enable (Current Setting) *-Exit, no change 1-Edit
5.	Press 1 to toggle ON/OFF	Beep Enable (Choice Flashing) *-Exit, no change # to Save
6.	Press # to save the setting	Beep Enable (New Setting) *-Exit, no change 1-Edit
7.	Press * three times to exit	0.00

OPTICS DISABLE – Not used in this model.

MOTOR TYPE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 0 for Advanced Config	Password: Use keypad to enter password
4.	Press 3 for Motor Type menu	Motor Type (Current Setting) *-Exit, no change 3-Edit
5.	Press 3 to toggle 3-Wire or 2-Wire	Motor Type (Choice Flashing) *-Exit, no change # to Save
6.	Press # to save the setting	Motor Type (New Setting) *-Exit, no change 3-Edit
7.	Press * three times to exit	0.00

TEMP

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 0 for Advanced Config	Password: Use keypad to enter password
4.	Press 4 for Temp menu	Temp (Current Setting) *-Exit, no change 4-Edit
5.	Press 4 to toggle Snack, Cold, Cold Food, Slackened, Eng Test, Dual Zone, Dual Upper -6, Chilled, MZF, MZF -2, MZF -5, SZ Frozen, SZ Frozen -2, SZ Frozen -5, SZ Cold, SZ Cold -1	Temp (Choice Flashing) *-Exit, no change # to Save

6.	Press # to save the setting	Temp (New Setting) *-Exit, no change 4-Edit
7.	Press * three times to exit	0.00

SEL STYLE

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 4 for Configuration	Configuration
3.	Press 0 for Advanced Config	Password: Use keypad to enter password
4.	Press 5 for Sel Style	Sel Style (Current Setting) *-Exit, no change 5-Edit
5.	Press 5 to toggle 3 digit, 2 Dgt 40+, 2-Dgt ever, */# USD	Sel Style (Choice Flashing) *-Exit, no change # to Save
6.	Press # to save the setting	Sel Style (New Setting) *-Exit, no change 5-Edit
7.	Press * three times to exit	0.00

6. OPTIONS

The following sub-menus are included in the Options Menu:

- Forced Vend
- Bill Escrow
- Multi Vend
- Free Vend
- Fast Change
- Optical Vend
- POS Message
- Set Point
- Drop Sensor

FORCED VEND

Forces the customer to complete a purchase once they have made payment in any form.

NOTE: If a customer chooses a Forced Vend selection and the motor fails, the customer will be allowed to escrow the credit.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 1 for Forced Vend Menu	Forced Vend (Current Setting) *-Exit 1-Edit
4.	Press 1 to toggle between ON and OFF	Forced Vend (Choice Flashing) *-Exit #-Save
5.	Press # to save the setting	Forced Vend (New Setting) *-Exit 1-Edit
6.	Press * two times to exit	0.00

BILL ESCROW

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	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 2 for Bill Escrow Menu	Bill Escrow (Current Setting) *-Exit 2-Edit
4.	Press 2 to toggle between ON and OFF	Bill Escrow (Choice Flashing) *-Exit #-Save
5.	Press # to save the setting	Bill Escrow (New Setting) *-Exit 2-Edit
6.	Press * three times to exit	0.00

MULTI VEND

Allows the customer to purchase more than one product if enough credit has been deposited. When Multi Vend is active, any credit remaining after a vend is NOT automatically returned. The customer makes the choice to make another selection (with sufficient credit), make further payment to make another selection or press the coin return to return any remaining credit.

NOTE: After 5 minutes, any credit remaining will be erased by the machine. For card reader sessions, the Multi Vend feature will function only if the card reader supports multiple vend capability.

NOTE: If Fast Change is set to ON, it will over ride MultiVend and change will be made immediately after a selection.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 3 for Multi Vend Menu	Multi Vend (Current Setting) *-Exit 3-Edit
4.	Press 3 to toggle between ON and OFF	Multi Vend (Choice Flashing) *-Exit #-Save
5.	Press # to save the setting	Multi Vend (New Setting) *-Exit 3-Edit
6.	Press * three times to exit	0.00

FREE VEND

Sets the WHOLE MACHINE to Free Vend. Every product is at no cost, no money is accepted by the machine and the display reads "FREE ON US".

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 4 for FreeVend Menu	Free Vend (Current Setting) *-Exit 4-Edit
4.	Press 4 to toggle between ON and OFF	Free Vend (Choice Flashing) *-Exit #-Save
5.	Press # to save the setting	Free Vend (New Setting) *-Exit 4-Edit
6.	Press * three times to exit	0.00

FAST CHANGE

Enables the vending machine to give change immediately after the customer makes a selection. If Fast Change is ON, it overrides the Multi Vend feature.

OPTICAL VEND – Not used in this model.
OPTICS ALL – Not used in this model.
OPTICS BY ROW – Not used in this model.
OPTICS BY SELECTION – Not used in this model.

POINT OF SALE MESSAGE (POS)

Turns ON or OFF the default scrolling display message.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 7 for POS Menu	POS Message (Current Setting) *-Exit 7-Edit
4.	Press 7 to toggle between ON and OFF	POS Message (Choice Flashing) *-Exit #-Save
5.	Press # to save the setting	POS Message (New Setting) *-Exit 7-Edit
6.	Press * three times to exit	0.00

SET POINT

Displays the factory default Set Point temperature for each machine type. See Temp section for the specific machine refrigeration modes. Ambient snack machines without a refrigeration system will display 36F.

These temperatures may be adjusted, **however it is not advised without direction by Seaga Customer Care or an authorized technician.** The optimal temperatures have been set according to NAMA specifications for optimal product safety. Before making any adjustment see Temp and Health Safety section.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 5 for Options Menu	Options
3.	Press 8 for Set Point	Setpoint (Current Setting)F *-Exit 8-Edit
4.	Press 8 to edit the temperature Set Point	Setpoint (Choice Flashing)F *-Exit #-Save
5.	Continue pressing 8 until the desired temperature is shown on the display	Setpoint (New Temp)F *-Exit 8-Edit
6.	Press # to save the setting	Setpoint (New Setting)F *-Exit 8-Edit
7.	Press * three times to exit	0.00

DROP SENSOR – Not used in this model.

7. ADVANCED FEATURES*

This menu requires a password. The following sub-menus are included in the Advanced Features menu:

- Discount
- Exact Change
- Unconditional Acceptance
- Max Change
- Shutdown
- Energy Savings
- Pair
- Degrees

DISCOUNT

This menu uses various sub-menu settings to allow a different price for selections at different times or on different days.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 1 for Discount	Discount
5.	Press 1 for All Items	All Items (Current Setting) *-Exit 1-Edit
6.	Press 1 to toggle All Items ON/OFF	All Items (Choice Flashing) *-Exit #-Save
7.	Press # to save the setting	All Items (New Setting) *-Exit 1-Edit
8.	Press * to return to Discount menu	Discount
9.	Press 4 for Day menu	Day
10.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
11.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
12.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
13.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
14.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 13 and 14.		
15.	Press * two times to return to Discount menu	Discount
16.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
17.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
18.	Press # to save the time	New Time *-Exit 5-Edit
19.	Press * two times to return to Discount menu	Discount
20.	Press 6 two times for Stop Time menu	Stop Time

21.	Press 6, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit # -Save
22.	Press # to save the time	New Time *-Exit 6 -Edit
23.	Press * two times to return to Discount menu	Discount
24.	Press 7 for Discount Value menu	Discount (Current Value) *-Exit 7 -Edit
25.	Press 7, then enter new Discount Value (Enter the new price at which to sell the item)	Discount (New Value) *-Exit # -Save
26.	Press # to save the discount value	Discount (New Setting) *-Exit # -Save
27.	Press * two times to return to Discount menu	Discount
28.	Press 9 for Enable Discount menu	Enable (Choice Flashing) *-Exit 9 -Edit
29.	Press 9 to toggle Enable ON/OFF	Enable (Choice Flashing) *-Exit # -Save
30.	Press # to save the setting	Enable (New Setting) *-Exit 9 -Edit
31.	Press * five times to exit to Sales Mode	0.00

DISCOUNT BY ROW

Note: Make sure All Items setting in the Discount Advanced Features menu is set to OFF.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 1 for Discount	Discount
5.	Press 2 for Row menu	Row: -- *-Exit
6.	Enter Row number	Row XX: (Current Setting) *-Exit 2 -Edit
7.	Press 1 to toggle Row ON/OFF	Row XX: (Choice Flashing) *-Exit # -Save
8.	Press # to save the setting	Row XX: (New Setting) *-Exit 2 -Edit
9.	Press * once to enter another row or two times to return to Discount menu	Discount
10.	Press 4 for Day menu	Day
11.	Press 1 for All Days	All Days (Current Setting) *-Exit 1 -Edit
12.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit # -Save
13.	Press # to save the setting	All Days (New Setting) *-Exit 1 -Edit
14.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2 -Edit

15.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 14 and 15.		
16.	Press * two times to return to Discount menu	Discount
17.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
18.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 5-Edit
20.	Press * two times to return to Discount menu	Discount
21.	Press 6 two times for Stop Time menu	Stop Time
22.	Press 6, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
23.	Press # to save the time	New Time *-Exit 6-Edit
24.	Press * two times to return to Discount menu	Discount
25.	Press 7 for Discount Value menu	Discount (Current Value) *-Exit 7-Edit
26.	Press 7, then enter new Discount Value (Enter the new price at which to sell the item)	Discount (New Value) *-Exit #-Save
27.	Press # to save the discount value	Discount (New Setting) *-Exit #-Save
28.	Press * two times to return to Discount menu	Discount
29.	Press 9 for Enable Discount menu	Enable (Choice Flashing) *-Exit 9-Edit
30.	Press 9 to toggle Enable ON/OFF	Enable (Choice Flashing) *-Exit #-Save
31.	Press # to save the setting	Enable (New Setting) *-Exit 9-Edit
32.	Press * five times to exit to Sales Mode	0.00

DISCOUNT BY SELECTION

Note: Make sure All Items setting in the Discount Advanced Features menu is set to OFF.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 1 for Discount	Discount
5.	Press 3 for Selection menu	Selection: -- *-Exit
6.	Enter Selection number	Selection XX: (Current Setting) *-Exit 3-Edit
7.	Press 1 to toggle Selection ON/OFF	Selection XX: (Choice Flashing) *-Exit #-Save

8.	Press # to save the setting	Selection XX: (New Setting) *-Exit 3-Edit
9.	Press * once to enter another row or two times to return to Discount menu	Discount
10.	Press 4 for Day menu	Day
11.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
12.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
13.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
14.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
15.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 14 and 15.		
16.	Press * two times to return to Discount menu	Discount
17.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
18.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 5-Edit
20.	Press * two times to return to Discount menu	Discount
21.	Press 6 two times for Stop Time menu	Stop Time
22.	Press 6, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
23.	Press # to save the time	New Time *-Exit 6-Edit
24.	Press * two times to return to Discount menu	Discount
25.	Press 7 for Discount Value menu	Discount (Current Value) *-Exit 7-Edit
26.	Press 7, then enter new Discount Value (Enter the new price at which to sell the item)	Discount (New Value) *-Exit #-Save
27.	Press # to save the discount value	Discount (New Setting) *-Exit #-Save
28.	Press * two times to return to Discount menu	Discount
29.	Press 9 for Enable Discount menu	Enable (Choice Flashing) *-Exit 9-Edit
30.	Press 9 to toggle Enable ON/OFF	Enable (Choice Flashing) *-Exit #-Save
31.	Press # to save the setting	Enable (New Setting) *-Exit 9-Edit
32.	Press * five times to exit to Sales Mode	0.00

EXACT CHANGE

Sets the coin tube value that will trigger the display to show Please Use Exact Change message. For example, if Exact Change is set to \$5.00, the message will display when the total of coins in the tube, as counted by the VMC, is at or below \$5.00 total.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 2 for Exact Change	Exact Change \$--.00 *-Exit 1-Edit
5.	Press 1 to edit Exact Change	Exact Change (Flashing) *-Exit 1-Edit
6.	Use number keys to enter an amount	Exact Change (New Setting) *-Exit 1-Edit
7.	Press # to save the setting	Exact Change (New Setting) *-Exit #-Save
8.	Press * two times to exit	0.00

ALTERNATE RULE – This function prevents a vend from occurring, flashes the Please Use Exact Change message and will return the established credit amount if one or more of the coin tubes are too low to give back the correct change for the vend.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 2 for Exact Change	Exact Change \$--.00 *-Exit 1-Edit
5.	Press 2 to set Alt Rules	Alt Rules (Current Setting) *-Exit 2-Edit
6.	Press 2 to toggle ON/OFF	Alt Rules (Choice Flashing) *-Exit #-Save
7.	Press # to save the setting	Alt Rules (New Setting) *-Exit 3-Edit
8.	Press * two times to exit	0.00

UNCONDITIONAL ACCEPTANCE

Sets the unconditional acceptance value. All cash box 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. When set to 0 (zero), all changer tube coins are accepted. Bills are accepted once there is enough change in the changer to pay back the bill type. Note: 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.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 3 for Unconditional Acceptance menu	Uncond Accept: (Current Setting) *-Exit #-Edit
5.	Press 3 then enter value	Uncond Accept: (New Setting)

		*-Exit #Save
6.	Press # to save the setting	Uncond Accept: (New Setting) *-Exit #Save
7.	Press * two times to exit	0.00

MAX CHANGE

This option prevents 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	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 4 for Max Change menu	Max Change
5.	Press 1 for current Max Change setting	Max Change (Current Setting) *-Exit 1-Edit
6.	Press 1 to toggle ON/OFF	Max Change (Choice Flashing) *-Exit #Save
7.	Press # to save the setting	Max Change (New Setting) *-Exit 1-Edit
8.	Press 2 and enter dollar amount	Max Change: \$--.— *-Exit #Save
9.	Press # to save the setting	Max Change (New Setting) *-Exit 2-Edit
10.	Press * three times to exit	0.00

SHUTDOWN

This menu sets the VMC to shut down All Items, by Row or by Selection, based on four (4) time of day intervals. If the time falls within one of these intervals and the entire machine has been selected for shutdown, then the message, "Vending Operation to Resume at hh.mm," will be displayed. If a row or individual selection has been set for Shutdown, the same message displays once every time the customer makes that selection or selections (row).

NOTE: the correct time and date must be set so that the shutdown intervals work correctly. See Time and Date section of this manual. Also, for any given day these four time intervals may overlap each other. For each interval, the VMC can be programmed from no days up to every day of the week on which the specified shutdown time intervals are active.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 5 for Shutdown	Shutdown
5.	Press 1 for Interval1 (2 for Interval2, and so on)	Interval1
6.	Press 1 to for All Items	All Items (Current Setting) *-Exit 1-Edit
7.	Press 1 to toggle ON/OFF	All Items (Choice Flashing) *-Exit #Save
8.	Press # to save the setting	All Items (New Setting) *-Exit 1-Edit

9.	Press * to return to Interval1	Interval1
10.	Press 4 for Day menu	Day
11.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
12.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
13.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
14.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
15.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 13 and 14.		
16.	Press * two times to return to Interval1 menu	Interval1
17.	Press # two times for Start Time menu	(Current Time) *-Exit 5-Edit
18.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 5-Edit
20.	Press * once to return to Interval1 menu	Shutdown
21.	Press 6 two times for Stop Time menu	Stop Time
22.	Press 6, then enter Stop Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
23.	Press # to save the time	New Time *-Exit 6-Edit
24.	Press * two times to return to Shutdown	Shutdown
25.	Press 2, 3 or 4 to edit Intervals 2, 3 or 4	IntervalX
26.	Press 8 for Lighting menu	Lighting (Current Setting) *-Exit 8-Edit
27.	Press 8 to toggle Lighting ON/OFF <i>Lighting ON turns off lights during Energy Saving interval</i> <i>Lighting OFF leaves lights on during Energy Saving interval</i>	Lighting (Choice Flashing) *-Exit 8-Edit
28.	Press # to save the setting	Lighting (New Setting) *-Exit 8-Edit
29.	Press * five times to exit to Sales Mode	0.00

SHUTDOWN BY ROW

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 5 for Shutdown	Shutdown
5.	Press 1 for Interval1 (2 for Interval2, and so on)	Interval1
6.	Press 2 for Row menu	Row: -- *-Exit

7.	Enter Row number	Row XX: (Current Setting) *-Exit 2-Edit
8.	Press 1 to toggle Row ON/OFF	Row XX: (Choice Flashing) *-Exit #-Save
9.	Press # to save the setting	Row XX: (New Setting) *-Exit 2-Edit
10.	Press * once to enter another row or two times to return to Shutdown menu	Shutdown
11.	Press 4 for Day menu	Day
12.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
13.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
14.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
15.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
16.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 15 and 16.		
16.	Press * two times to return to Shutdown menu	Shutdown
17.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
18.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 5-Edit
20.	Press * two times to return to Shutdown menu	Shutdown
21.	Press 6 two times for Stop Time menu	Stop Time
22.	Press 6, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
23.	Press # to save the time	New Time *-Exit 6-Edit
24.	Press * two times to return to Shutdown menu	Shutdown
25.	Press 2, 3 or 4 to edit Intervals 2, 3 or 4	IntervalX
26.	Press * five times to exit to Sales Mode	0.00

SHUTDOWN BY SELECTION

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 5 for Shutdown	Shutdown
5.	Press 1 for Interval1 (2 for Interval2, and so on)	Interval1
6.	Press 3 for Selection menu	Selection: -- *-Exit

7.	Enter Selection number	Selection XX: (Current Setting) *-Exit 3-Edit
8.	Press 1 to toggle Selection ON/OFF	Selection XX: (Choice Flashing) *-Exit #-Save
9.	Press # to save the setting	Selection XX: (New Setting) *-Exit 3-Edit
10.	Press * once to enter another row or two times to return to Discount menu	Discount
11.	Press 4 for Day menu	Day
12.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
13.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
14.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
15.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
15.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 15 and 16.		
16.	Press * two times to return to Shutdown menu	Shutdown
17.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
18.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 5-Edit
20.	Press * two times to return to Shutdown menu	Shutdown
21.	Press 6 two times for Stop Time menu	Stop Time
22.	Press 6, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
23.	Press # to save the time	New Time *-Exit 6-Edit
24.	Press * two times to return to Shutdown menu	Shutdown
25.	Press 2, 3 or 4 to edit Intervals 2, 3 or 4	IntervalX
26.	Press 8 for Lighting menu	Lighting (Current Setting) *-Exit 8-Edit
27.	Press 8 to toggle Lighting ON/OFF <i>Lighting ON turns off lights during Energy Saving interval</i> <i>Lighting OFF leaves lights on during Energy Saving interval</i>	Lighting (Choice Flashing) *-Exit 8-Edit
28.	Press # to save the setting	Lighting (New Setting) *-Exit 8-Edit
29.	Press * five times to exit to Sales Mode	0.00

ENERGY SAVINGS

Use this menu to set a **non-health safety machine** to run at a higher than normal temperature during set times. This will save energy during off peak hours of sales. Two intervals are available.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 6 for Energy Savings	Energy Savings
5.	Press 1 for Interval1 (2 for Interval2, and so on)	Interval1
6.	Press 4 for Day menu	Day
7.	Press 1 for All Days	All Days (Current Setting) *-Exit 1-Edit
8.	Press 1 to toggle All Days ON/OFF	All Days (New Setting) *-Exit #-Save
9.	Press # to save the setting	All Days (New Setting) *-Exit 1-Edit
10.	Press 2 to toggle Monday ON/OFF	Mon (Choice Flashing) *-Exit 2-Edit
11.	Press # to save the setting	Mon (New Setting) *-Exit 2-Edit
Use numbers 3-8 to complete the other days of the week using steps 10 and 11.		
12.	Press * two times to return to Interval1 menu	Interval1
13.	Press 5 two times for Start Time menu	(Current Time) *-Exit 5-Edit
14.	Press 5, then enter Start Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
15.	Press # to save the time	New Time *-Exit 5-Edit
16.	Press * two times to return to Energy Savings menu	Energy Savings
17.	Press 6 two times for Stop Time menu	Stop Time
18.	Press 6, then enter Stop Time in 24-hr time (HH:MM)	New Time *-Exit #-Save
19.	Press # to save the time	New Time *-Exit 6-Edit
20.	Press * to return to Interval1 menu	Interval1
21.	Press 7 to enter Storage Temp (default is 62° F)	Storage (Current Temp) F *-Exit 7-Edit
22.	Press 7 to set Storage Temp (36° F to 62° F)	Storage (Choice Flashing) F *-Exit #-Save
23.	Press # to save the setting	Storage (New Temp) F *-Exit 7-Edit
24.	Press * once to return to Interval1 Menu	Interval1
25.	Press 8 for Lighting menu	Lighting (Current Setting) *-Exit 8-Edit
26.	Press 8 to toggle Lighting ON/OFF <i>Lighting ON turns off lights during Energy Saving interval</i>	Lighting (Choice Flashing)

	<i>Lighting OFF leaves lights on during Energy Saving interval</i>	*-Exit 8-Edit
27.	Press # to save the setting	Lighting (New Setting) *-Exit 8-Edit
28.	Press * five times to exit to Sales Mode	0.00

PAIR – Not used in this model.

DEGREES

This function allows you to change from Fahrenheit to Celsius.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 6 for Password (Advanced Features) Menu	Password
3.	Enter Password (default 2314)	Advanced Features
4.	Press 8 for Degrees menu	Degrees - - - *-Exit 8-Edit
5.	Press 8 to Edit	Toggle between F and C
6.	Press # to save or * to Exit	Degrees - - - *-Exit # Save
7.	Press * five times to exit to Sales Mode	0.00

8. MOTORS

This function displays the motor count. It is a useful, quick diagnostic tool in case of selection failure and can point out a motor issue if the count is not correct.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 7 for Motor count display menu	Motors (Count Flashes)
3.	Press * to exit to Sales Mode	0.00

9. SELECTION

This function tests the motor on one specified selection.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 8 for Selection motor test menu	Selection: --
3.	Enter selection to test and wait	Selection: (Current Selection) *-Delete
4.	Repeat for any other selections or	Selection: (New Selection) *-Delete
5.	Press * to exit to Sales Mode	0.00

10. **SELECTION: ALL**

This function tests all motors in sequence automatically. To stop the test, press * to exit. NOTE:
All selections should be empty prior to performing this test.

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 9 for Selection motor test menu	Selection: (First Selection) *-Stop
3.	Press * to exit to Sales Mode	0.00

11. **TEST MODES**

This menu contains diagnostic tests and settings for the following systems:

- Relays
- Vigilant Vend Sensor
- Drop Bias Setting*
- System Logs*
- On Door
- Manual Defrost

STEP		DISPLAY
1.	Press Service Mode Button	Motor Count or Error Code **
2.	Press 9 for Test Modes	Test Modes
3.	Enter selection to test and wait for selection to vend. Break beam to continue or vend sensor will keep testing same motor. To break the beam, simply wave your hand in the inside of the delivery bin.	Selection: (Current Selection) *-Delete
4.	Repeat for any other selections or	Selection: (New Selection) *-Delete
8.	Press * to exit to Sales Mode	0.00

ERROR CODE MESSAGES

VMC Errors		
Error Message	Description	Possible Solutions
VMC Settings Reset	VMC has been reset to factory default.	If a software upgrade has just been performed, the VMC has been reset to default settings. Change your prices and other settings as required. Cycle power and verify your changes and any error messages.
VMC Door Switch (not used on this model)	Door switch is seen as open for greater than the allowed time.	Check the door switch for correct operation. Check door wire harness.
VMC Scale Factor	There is a conflict with one or more MDB setting from the installed MDB devices.	Review manuals and settings for installed MDB devices to make sure they are compatible.
VMC Selection SW	A keypad selection button is stuck in the depressed position.	Determine reason why keypad button is stuck and repair.
VMC Low AC	The incoming AC power is lower than required to properly run your vending machine.	Determine why voltage is low. Remove any voltage reducing devices not authorized by the vending machine manufacturer.
VMC RAM Checksum	A RAM checksum error indicates that accounting data or a VMC setting was in error. The VMC will use a backup copy of the data where possible.	Check the VMC settings and accountability data for correctness. Cycle power to the vending machine and recheck error messages.

Motor Errors		
Error Message	Description	Possible Solutions
Motor [Number] Open	The motor indicated or harness to that motor has an open electrical connection.	Check the motor and motor harness for open connections. Test vend motor. Replace if necessary.
Motor [Number] Short	The motor or harness has an electrical short.	Check motor and motor harness for short. Replace if necessary.
Motor [Number] Home Sns	The motor home switch was not detected while the motor was in operation. This may also indicate a motor jam condition.	Check motor type service mode setting, motor, motor switch and then spiral for blockage. Test vend selection motor if necessary.
Motor [Number] Jam	A motor jam has been detected.	Check motor and spiral for blockage.
Motor [Number] Errors	One or more motor errors have been detected.	Test vend selection motor and review information on motor open, short, home switch and jam conditions.
Motor Under Voltage	The detected motor voltage is not high enough to run the selection motors.	Test vend selection motor for correct operation. Replace motor. Replace VMC.

Temperature Sensor Errors		
Error Message	Description	Possible Solutions
Refrig Sensor # Open	A temperature sensor or harness is considered to have an open electrical connection. Where # is the sensor number.	Check sensor and sensor harness for open connections. Check for sensor readings. Replace sensor if necessary.
Refrig Sensor # Short	A temperature sensor or harness is considered to have an electrical short. Where # is the sensor number.	Check sensor and sensor harness for shorted connections. Replace if necessary.
Refrig Health Safety	The cabinet temperature and time limit settings have been exceeded.	Check sensor readings and sensor harness for shorted connections. Check for sensor readings. Replace sensor if necessary.

Vend Sensor Errors		
Error Message	Description	Possible Solutions
Optical Sensor Error (not used on this model)		

Coin Changer Errors		
Error Message	Description	Possible Solutions
Coin Mech Comm	VMC does not have communication with the coin changer.	Check MDB Harness to changer. Check for power on changer. See changer service manual.
Coin Mech Tube Sns	The coin changer has reported a tube sensor error.	See changer service manual.
Coin Mech Inlet	The coin changer has reported an acceptor blockage.	Check changer tubes. See changer service manual.
Coin Mech Tube Jam	The coin changer has reported a tube payout error.	Check changer tubes. See changer service manual.
Coin Mech ROM	The coin changer has reported a program memory error.	See changer service manual.
Coin Mech Excess Esc	The coin changer has reported that a large number of coin escrow requests have occurred.	Check changer escrow lever position.
Coin Mech Coin Jam	The coin changer has reported that a coin is jammed in the coin path.	Check changer coin path. See changer service manual.
Coin Mech Low Accept	The VMC has seen a low acceptance rate on coins.	Review inserted coins. See changer service manual.
Coin Mech Acpt Disc	The coin changer has reported that the coin validation acceptor is disconnected.	Re-connect the coin changer's acceptor. See changer service manual.
Coin Mech Route Err	The coin changer reported that a coin did not follow the correct path.	Check changer coin path. See changer service manual.

Bill Validator Errors		
Error Message	Description	Possible Solutions
Bill Val Comm	VMC does not have communication with the bill validator.	Check MDB Harness to validator. Check for power on validator.
Bill Val Stack Full	The bill validator has reported that the stacker is full of bills.	Check bill stacker box for bills. See validator service manual.
Bill Val Motor Err	The bill validator reports that a validator motor error has occurred.	See validator service manual.
Bill Val Jam	The bill validator reports a bill is stuck in the bill path.	Check validator bill path for bills. See validator service manual.
Bill Val Stack Open	The bill validator is reporting a bill box is open or not installed.	Check bill stacker box for open lid. See validator service manual.
Bill Val Sensor Err	The bill validator reports a sensor error.	See validator service manual.

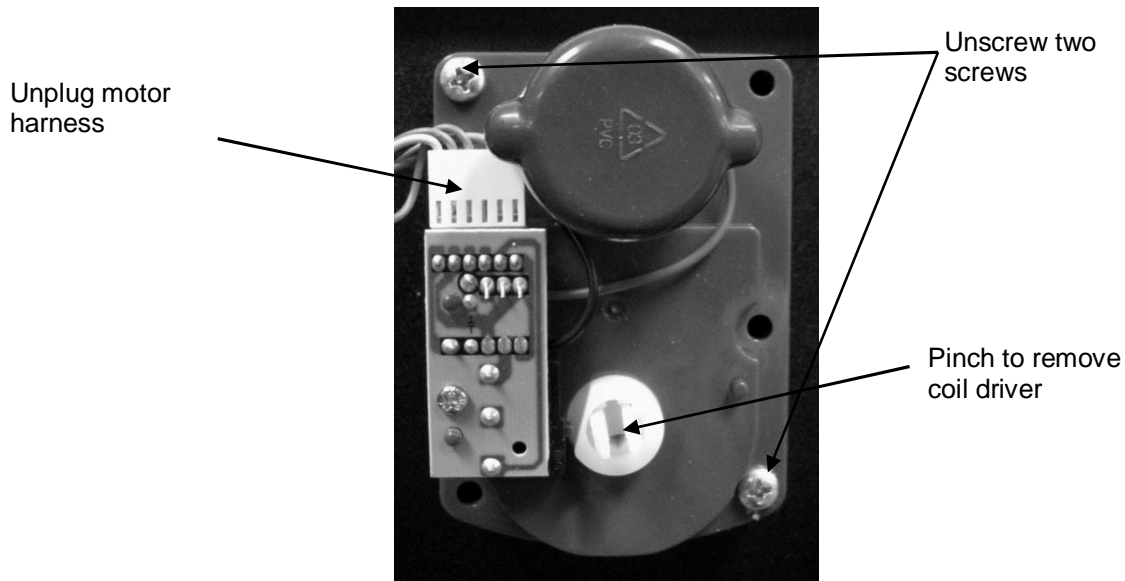
Card Reader 1 and 2 Errors		
Error Message	Description	Possible Solutions
Card RDR1 or 2 Comm	VMC does not have communication with the card reader.	Check MDB Harness to card reader. Check for power on card reader.
Card RDR1 or 2 Err	The card reader reports an error	See card reader service manual.

NOTE: Errors are cleared after the problem detected has been resolved.

VEND MOTORS

Each Selection is vended by the action of the Vend Motor. The Vend Motors are screwed onto the rear of each Product Tray. In the rare event of a jam, a Vend Motor may need to be returned to its home position.

Figure 18 –Motor on Snack Tray



1. To “Home “ a Vend Motor
 - a. Unlock and open the Front Door to access the Circuit Board, and enter Service Mode by pressing the MENU Button
 - b. Enter the Test Mode
 - c. Enter the letter and number of the motor you wish to home. The motor will rotate to its home position.
2. To Remove a Vend Motor
 - a. Unlock and open the front door
 - b. Unlock Product Tray and pull it out fully while keeping it level
 - c. Lift Product tray to release from the Track and pull it out

Caution: The Product Tray Wire Harness will need to be unplugged prior to complete removal of the product tray. The wiring harness is plugged into the slide-out shelf in the Snack unit.

- d. Remove Coil from the driver by lifting the front end of the Coil up with one hand pinching the lugs of the shaft. Push the shaft through the back of the vend motor, freeing up the coil/driver/shaft assembly for removal.
Note: This operation is more difficult with smaller Coils.
- e. Remove the two Phillips head screws that are securing the motor to the product tray.
- f. Disconnect Wires of the Vend Motor, paying close attention to the orientation of the motor plug wire connector.
- g. Replace Vend Motor by repeating above steps in reverse order, making sure you plug the vend motor connector in the same way it was originally. **Note:** Failure to do so may result in vend motor failure.

PAYMENT SYSTEMS

Coin Changer

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

Loading Changer

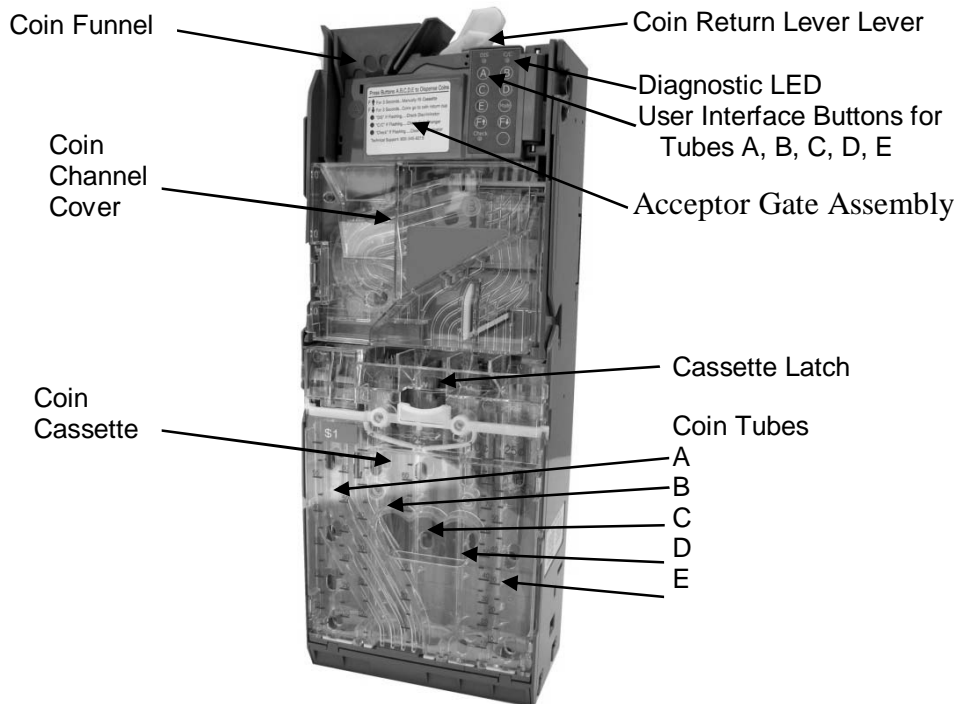
As change is given to the customer in coins only, it is recommended that you initially load the coin tubes completely full when setting up your machine. In order for your VMC to keep an accurate coin inventory, enter Service Mode by pressing the MENU button and scroll through to Test Mode, and load coins in through the front coin slot, as if you were inserting money to purchase items. Once the coins start dropping into the coin overflow tray, 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

The Coin Overflow Tray holds all accepted coins except for coins needed to maintain inventory in the Tubes. The User Interface Buttons are located on the upper portion of the changer (Figure 19). When in Service Mode, go to Settings, Coin Refill and press a User Interface Button on the changer to dispense the coins in that tube. Note that the changer will empty that selection of coins. To stop this mode, press the selection's User Interface Button again.

Note: You may also physically remove the Coin Cassette to load and unload coins. Note that doing so will not maintain audit totals.

Figure 19 - Coin Changer

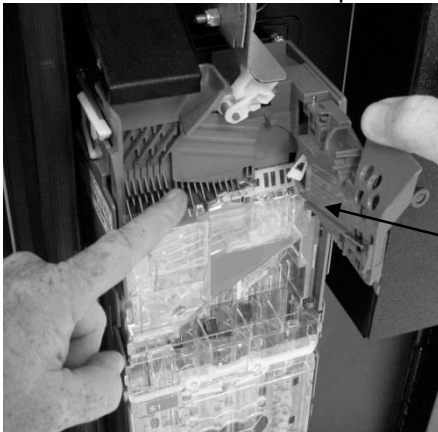


Clearing Coin Jams

1. Unplug the machine from the power source
2. Unlock and open the Front Door
3. Open the Acceptor Gate Assembly by pulling forward on the Coin Funnel



4. Check for coin jams in this area. Note: the ramp in this area should also be cleaned on a regular basis to insure trouble-free operation.



Coin Ramp – keep clean

5. Open the Coin Channel Cover by using the tab on the left side to pull forward



6. Check this area for any jammed coins



Removal of Coin Changer

To Remove the Coin Changer:

- a. ***Disconnect the power to the machine – this is very important to avoid damaging not only the coin changer but your VMC. Failure to disconnect power before performing this operation will void your warranty.***
- b. Disconnect the Wire Harness to the changer

Disconnect
Wire Harness



- c. Lift up on the white lever on the top left side of the coin mechanism
- d. Tilt the Discriminator assembly forward and lift off main housing. Note: the discriminator will still be attached by a cable.
- e. Loosen the three (3) Mounting Screws



- f. Lift 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, \$5 and \$10 bills, but will not accept 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 Collection Box.

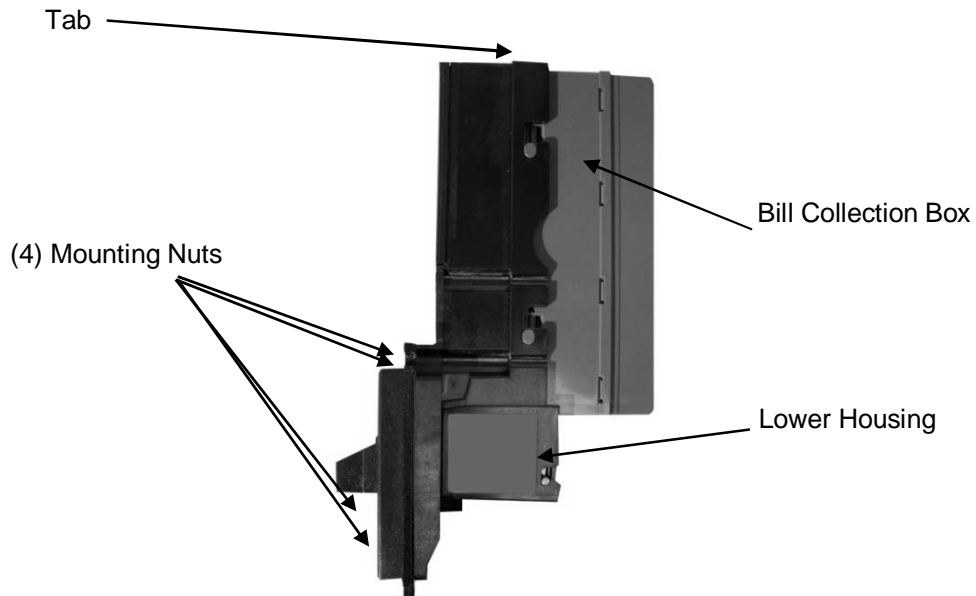
1. To Retrieve Bills.

- a. Unlock and open the Front Door
- b. Open door located on top of bill collection box and lift out bills



- c. Close top door on bill collection box after bills are retrieved

Figure 20 – Bill Validator



Removing Bill Validator

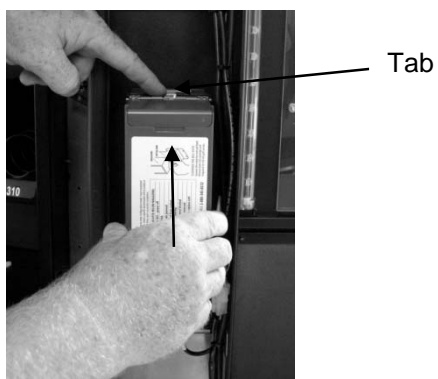
From time to time it may be necessary to remove the Bill Validator for cleaning and clearing jams.

1. To remove the Bill Validator

a. Disconnect the power to the machine – this is very important to avoid damaging not only the bill validator but your VMC. Failure to disconnect power before performing this operation will void your warranty.

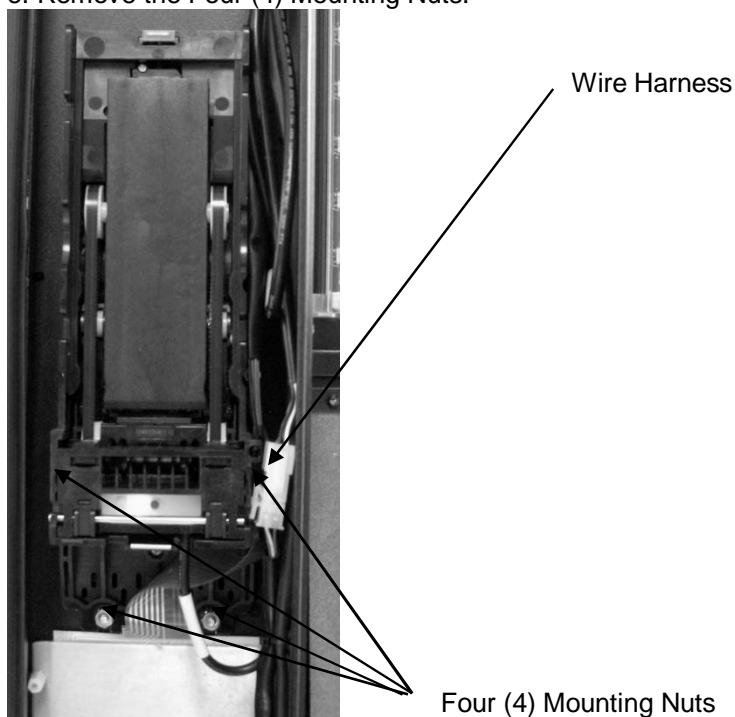
b. Unlock and open the Front Door

c. Push Bill Validator Tab forward and slide Bill Storage Box up to remove



d. Disconnect Bill Validator from Wire Harness

e. Remove the Four (4) Mounting Nuts.



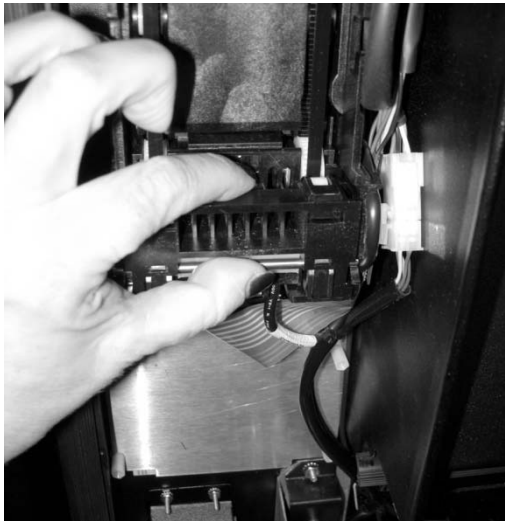
f. Remove Bill Validator

Clearing Bill Jams

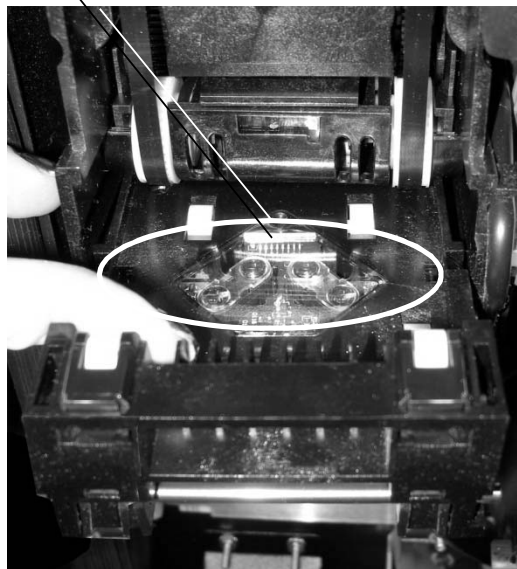
It is possible that a torn or damaged bill can jam within the Bill Validator, putting it out of service.

1. To Clear a Jam.

- a. Remove Bill Collection Box as instructed in Bill Retrieval and inspect for a jammed bill
- b. Remove bill jam, and reassemble
- c. If no jam was found in the Bill Collection Box, lift up on the metal bar at the bottom of the bill validator and pull the lower unit out towards you.



- d. Inspect and remove jammed bill.

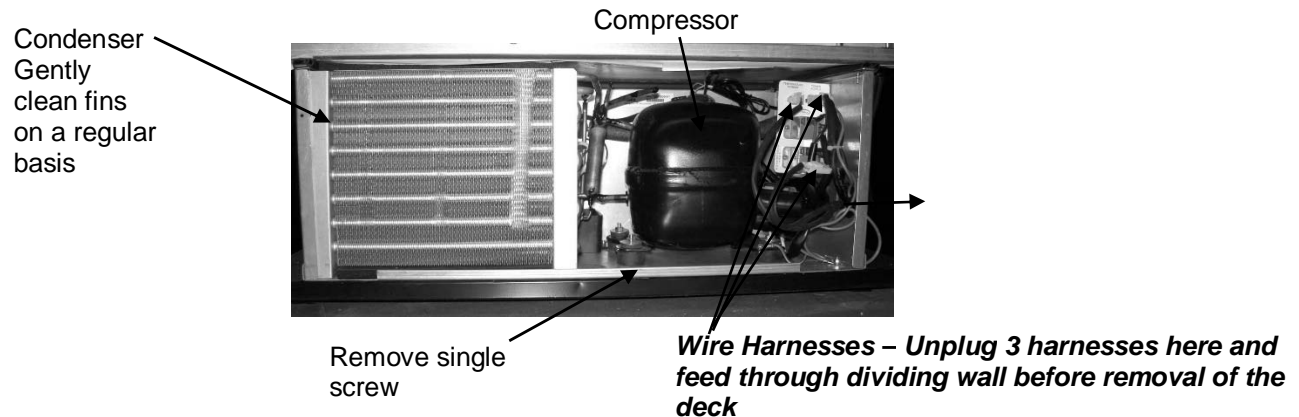


- e. Replace lower unit to resume normal operation.

REFRIGERATION DECK

Your Drink unit incorporates 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 Drink unit door and sliding the front grill up and out. Remove the single screw from the center floor of the refrigeration deck and unplug the wire harnesses on the side of the deck (Fig. 21). The refrigeration deck can now be pulled out from the vendor. Please make sure you unplug wire harnesses prior to pulling all the way out. Do not tip the refrigeration deck more than 20° in any direction.

Figure 21 – Refrigeration deck



The refrigeration deck is a 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.

Note: Pressing the 10 key on the keypad in standard mode (not service mode) will display the current temperature inside the refrigerated drink unit.

CLEANING THE CONDENSER

Dust and dirt restricts good airflow and cooling of the condenser, causing the refrigeration unit to not chill the beverages properly. Remove the front bottom panel of the beverage 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.

COMMON QUESTIONS AND ANSWERS

Product prices, payment systems and currency:

Q. How high can I set my Prices?

- A. Each selection can be priced individually up to \$99.95. Note: Keep in mind when setting a price that you may have an effect on the Exact Change Only status of your machine.

Q. Why do the coins I insert reject immediately?

- 1. Insure that the changer harness is connected properly. **Note: always disconnect power to snack vendor before disconnecting and reconnecting payment system harnesses.**
- 2. Insure there is no pressure on the coin return lever located on the changer itself. Slight pressure will cause the changer to automatically reject coins.
- 3. Clean changer.

Q. Why won't the unit take more than 3 - \$1 bills, or more than 1 - \$5 bill?

- A. The VMC protects the amount of change in the changer and will only allow the bill acceptor to take bills up to the highest vend price in the machine. For example, if your highest vend price is \$3, after inserting 3 - \$1 bills or 1 - \$5 you will not be able to insert more bills.

Q. Can customers reach down and help themselves to product?

- A. No, they can't. The product door is a Triangle shaped flap designed to deter reach and theft. When pushed, the back of the triangle flap will come in contact with the bottom product tray and will become an anti-theft wall to act as a block.

Q. In the event of a power outage, will I have to reprogram my prices, settings, etc.?

- A. No, your settings are stored.

Q. Are the prices preprogrammed at the factory? Is there a default setting for all of the programming functions?

- A. Yes, the prices are pre-programmed at the factory to \$1. However, programming the price settings is a great way to get familiar with your machine while you are in test mode and prior to locating the machine. Your first-hand knowledge will allow you a greater understanding of how the equipment works.

Q. How often should I clean my payment systems?

- A. This will depend on how much traffic you have at your machine – the more money inserted, the dirtier the payment systems will become. Clean your payment systems on a monthly basis to begin with. Lengthening the time between cleanings is at your own discretion.

Drink unit temperature and refrigeration:

Q. What type of environment is the equipment designed for?

- A. The machine is specifically designed for indoor use only. Optimal location temperature is 75° F, with 40% RH. Avoid placing unit in direct sunlight.

Q. How do I clean my condenser?

- A. 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 office supply/computer 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.

Q. How do I set my temperatures, and what is the factory recommended low and high settings?

- A. The unit is pre-set by the factory to the industry standard. See Temp section of the programming information to change the settings.

Q. My drink selections are not cold enough. How do I get them colder?

1. Make a small adjustment to the Temp menu on the VMC. This should be done with extreme caution!
2. Clean condenser coil (see Refrigeration section of this manual). The coil should be clean and lint free, if dirt or lint build-up is on coil, this will restrict air flow and cause the compressor temperature to rise above operating temperatures and compromise cooling.
3. Insure condenser fan and evaporator fans are running.

Note: this should be done with power cord unplugged from wall outlet for personal safety.

4. Insure your drink vendor is placed in a location that it is designed for, which is indoors only. Installation in outside or environments without climate control will compromise cooling, potentially damage your machine and void the warranty.

If further assistance is needed, please contact Seaga Customer Care or a local refrigeration technician.

Q. My drinks are not cooling at all.

1. Insure through the Service Mode Temp menu that the refrigeration is turned on. Insure the unit has power – test wall outlet where the unit is plugged in.
2. Check that refrigeration connections are properly connected.

Product vending:

Q. Why won't my snack selection vend?

1. Check to insure proper connection is made to vend motor.
2. Go into Motor Home and Count, and choose the selection, this will home the motor if it is out of home. Then follow the steps to Clear Errors.
3. Inspect harness for visual breaks and replace harness if broken wires are found.
4. If above steps fail, switch motor with known working motor.

Q. Why are vertical columns in my drink unit double vending?

1. Check bottle diameter to insure the bottle is not too small to vend (should be within 2 ¼" to 3" in diameter).
2. Insure shim is properly installed.
3. Run selection in Test Mode and look to see if any error is displayed after vend is made. If error is displayed check wiring to home switch located behind motor. Then follow the steps to Clear Errors detailed in the Programming section of this manual.
4. Check home switch itself for cracks or breaks, replace if necessary.
5. See seaga.com for helpful videos on how to properly load a vertical drop system.

Q. A product keeps hanging up or getting stuck. What can I do?

1. The product may be loaded incorrectly in the coil or the product may be in the wrong sized coil.
2. Product pushers may help bring the product forward as the coil turns and help the product drop at a more even level.

Q. How do I install the Product Pushers?

- A. Align the product pusher groove with coil diameter and slide along the coil with triangle pointing towards the front (away from the product). Slide until the product pusher is completely inside the coil with about ½" from the coil end point.

Q. A selection will try to vend but the product will not come out. What do I need to do?

- A. The most probable answer is that the coil has become detached from the driver. Remove the jammed item and then check to see if the coil is free from the driver. If so, snap the coil back into the driver and then home the motor.

Display and keypad:

Q. Why isn't my display working?

1. Insure the snack machine is plugged into a working outlet
2. Check the harness connection to the display board. Slide out the shelf that the display is mounted to, look at the bottom of the display board to locate the display harness, press upward on the connection to insure that it is connecting properly. You may need to restart the machine to have the display come back on if connection was not made initially.
3. Check the connection on the VMC labeled display and insure that proper connection is made.

Q. My Keypad is not working/ some selections not working

1. Check harness connections to the keypad ribbon harness that is located behind the keypad.
2. Inspect key pad for damage caused by selection pressed with foreign objects. Large dents, tears, scratches may damage the membrane and result in failure.
3. Check connection on VMC labeled keypad and insure that proper connection is made.

Transporting and installing:

Q. Do I have to test my equipment before placing it on location? Must I disassemble to transport to the location? Is there a way to do a general check of equipment without full assembly?

- A. We suggest full testing prior to the unit being moved to the location. Why? It gets you familiar with the machine so that you look professional and efficient when at the location setting up the machine. Complete assembly of the machine for testing is required.

Q. Can the snack and drink machine be transported while attached? Loaded?

- A. The units should never be transported attached. Additionally, transporting with product loaded voids manufacturer's warranty and can damage your equipment. Transport units unattached and empty of product/change only.

Q. Can I place the drink unit on its side for transport?

- A. Never place the drink machine in any other position but upright. There are numerous components that can be jostled out of place, becoming very problematic for you. Once the machine is set in place, the compressor needs to rest for a minimum of 24 hours prior to running in order for the oils in the compressor to return to their non-threatening position.

Q. Are the drink shims pre-installed at the factory?

- A. Yes, but they may have moved during shipping and should be reviewed prior to loading.

Q. Are there different coils that will hold a larger number of products (more product spaces)?

- A. For other coil options, please call Seaga Customer Care.

Q. My Drink Unit door will not line up and lock. What can I do?

- A. This may be caused by a machine that is not level, perhaps placed on an uneven floor. We suggest you put all the units together and securely bolt them together as per the instructions. This should resolve any fit issues.

Q. Should I use a surge protector for the equipment?

- A. A surge protector is a small investment that can save your equipment from less than ideal power situations. We recommend using a surge protector.

FREQUENTLY ASKED QUESTIONS

Keypad

What do I do if my keypad isn't responding, displays double the number pressed or displays a different number?

1. If not responding, check the connection at the VMC to make sure it's secure. Examine the whole keypad harness to make sure there is no damage to the harness.
2. If the wrong number or a double number appears, locate the mounting plate inside the machine, and you will see a series of nuts in each corner of the mounting plate. Loosen each one of those a half to full turn. Power the machine off for 10 seconds then power back up and test the keypad.

Changer

My vendor won't accept change, how do I fix this?

1. Check to make sure the changer has power.
2. Check your payment device setting and make sure that the changer is enabled.
3. Check to make sure there are no coins jammed in the changer.
4. Check to make sure the coin return mechanism is releasing all the way.

What does it mean when the lights on top of the changer are flashing?

1. If the amber C/C light is flashing, it means that the lower coin cassette is not fully engaged. Remove the lower coin cassette, line up correctly and reinsert.
2. If the red DIS light is flashing, it means that there is a jam located in the upper cassette. You can clear that by opening the clear center access door or opening the flap on top to check for interior jams.

Bill Validator

My vendor won't accept bills, what do I do?

1. In Menu, Settings, check Coin Refill for your coin values. Your bill validator operates only if it knows that there is enough change in the Coin Changer to make transactions. The best way to make sure your bill acceptor has this information is to make sure all coins are loaded when in the Coin Refills Menu mode and inserted through the front of the vendor.
2. Make sure the bill acceptor is clean and there are no jams or debris inside of the acceptor.

Beverage Vending

My beverages aren't vending at all.

1. Make sure all items are loaded correctly.
2. Make sure shim is in correct place and back gate is adjusted properly.

My beverages are vending more than one at a time.

1. Make sure all items are loaded correctly. Make sure you have loaded the correct product into the correct selection. Make sure shim is in the machine. If needed make proper adjustments to the home switch plate.

I cannot vend Red Bull at all or the cans get punctured when they vend.

1. If Red Bull isn't vending, make sure that the side spacer is still attached and has not slid down. Note: Red Bull requires a kit from Seaga Customer Care.
2. In the case of punctured cans, you will need to have the sold out flap replaced; contact Seaga Customer Care.

I've loaded my column, but nothing is vending.

1. Make sure all product loaded is installed in the correct selection.

The selection vends fine in Test Mode, but during Sales Mode says Make Alternate Selection.

1. You have an error code or a jam blocking the use of that particular selection. You will need to empty all products and make sure there are no jams. Return the auger to the home position and reload the product. Then go to the menu and clear the errors. This will allow you to resume vending from that particular selection(s).

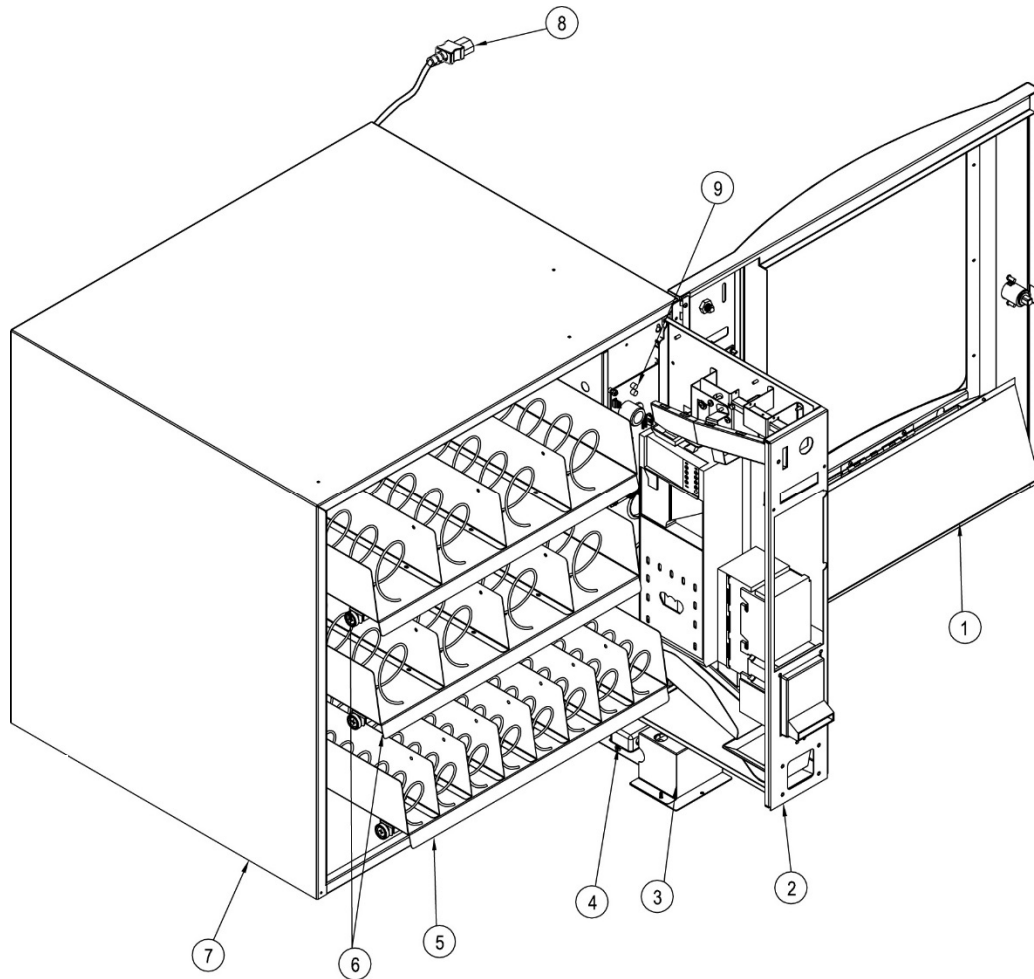
Power

I can see and hear the cooling deck fans, but there is no power to the rest of the machine. What does this mean?

1. Check the transformer on the floor of the machine. There is a cover that goes over the transformer with access to the small breaker switch on top of the transformer. Press the breaker switch to reset the transformer. This should cause the machine to power back up.

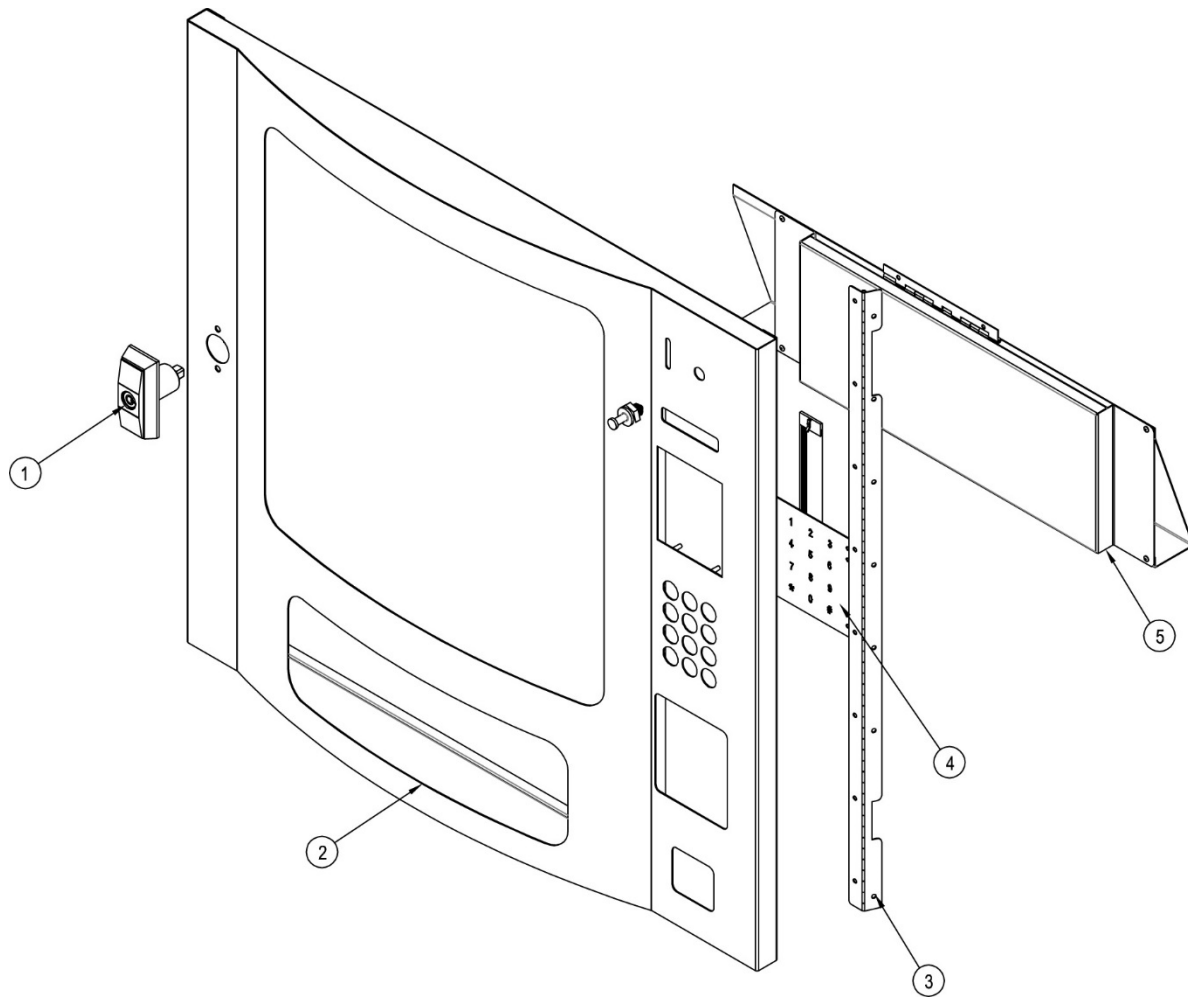
Check to make sure that the main power harness that runs from the transformer to the VMC. Make sure all connections are good.

Figure 22 – Snack Unit (SM6S)



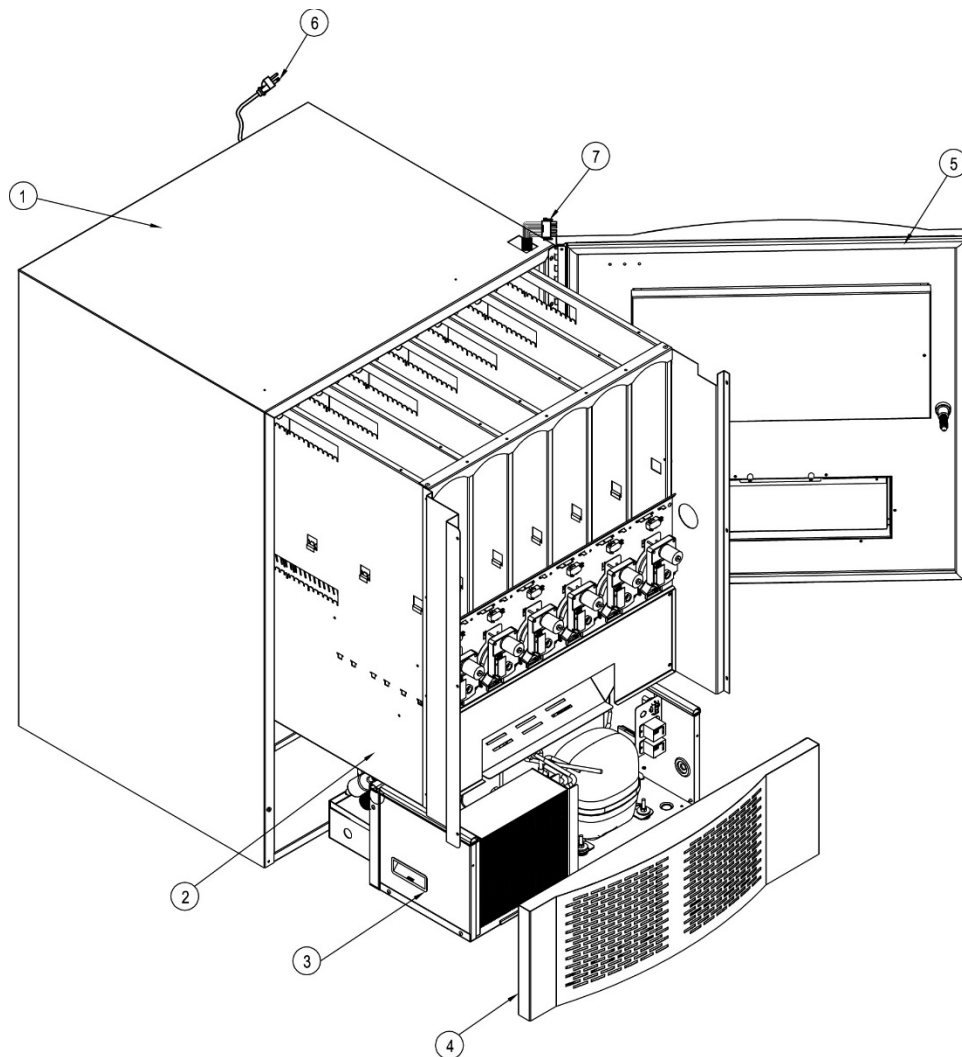
ITEM	PART NO.	DESCRIPTION
1	SA9215	DOOR
2	WE9225A	VERTICAL SHELF AND COMPONENTS
3	ELC478	TRANSFORMER
4	ELI946	FILTER
5	SA9221	8-SELECTION PRODUCT TRAY
6	SA9222	4-SELECTION PRODUCT TRAY
7	SA9009	MAIN CABINET
8	ELC952	POWER CORD
9	ELI950	VMC

Figure 23 – Snack Unit Door (SM16S)



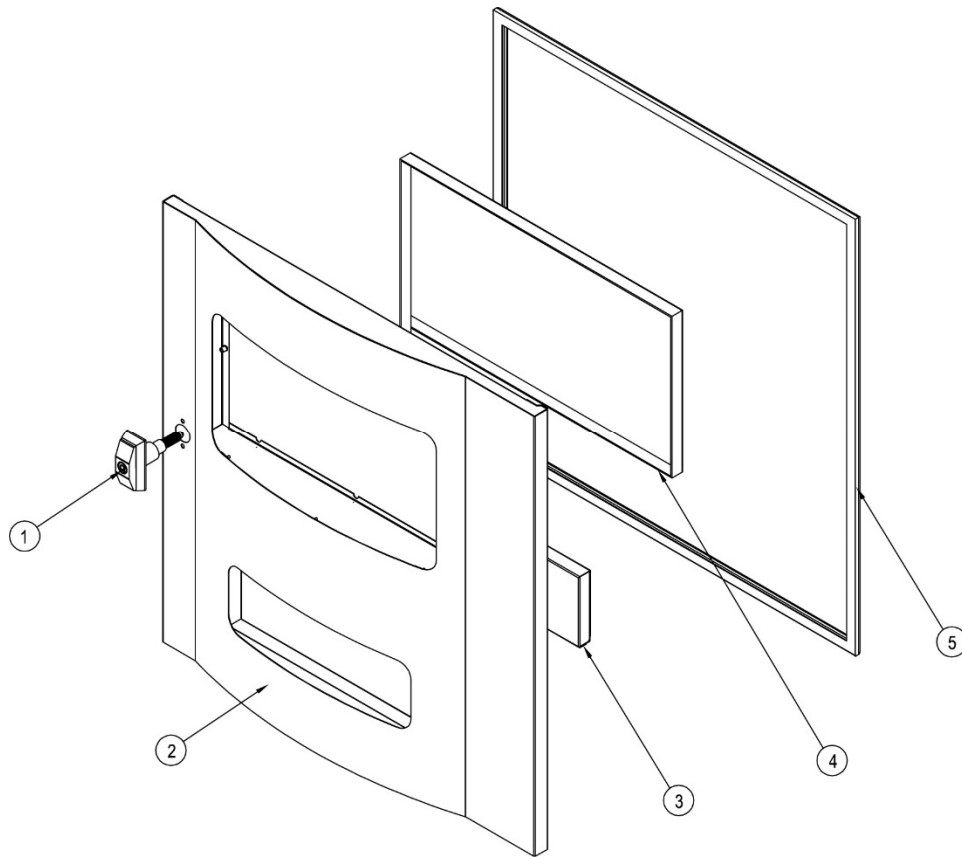
ITEM	PART NO.	DESCRIPTION
1	HAI246 and HAI247	T-HANDLE LOCK
2	SAI92005	DOOR ASSEMBLY
3	HAI351	HINGE
4	ELI840	KEYPAD
5	SAI92012	DELIVERY DOOR

Figure 24 – Beverage Unit (SM6RD)



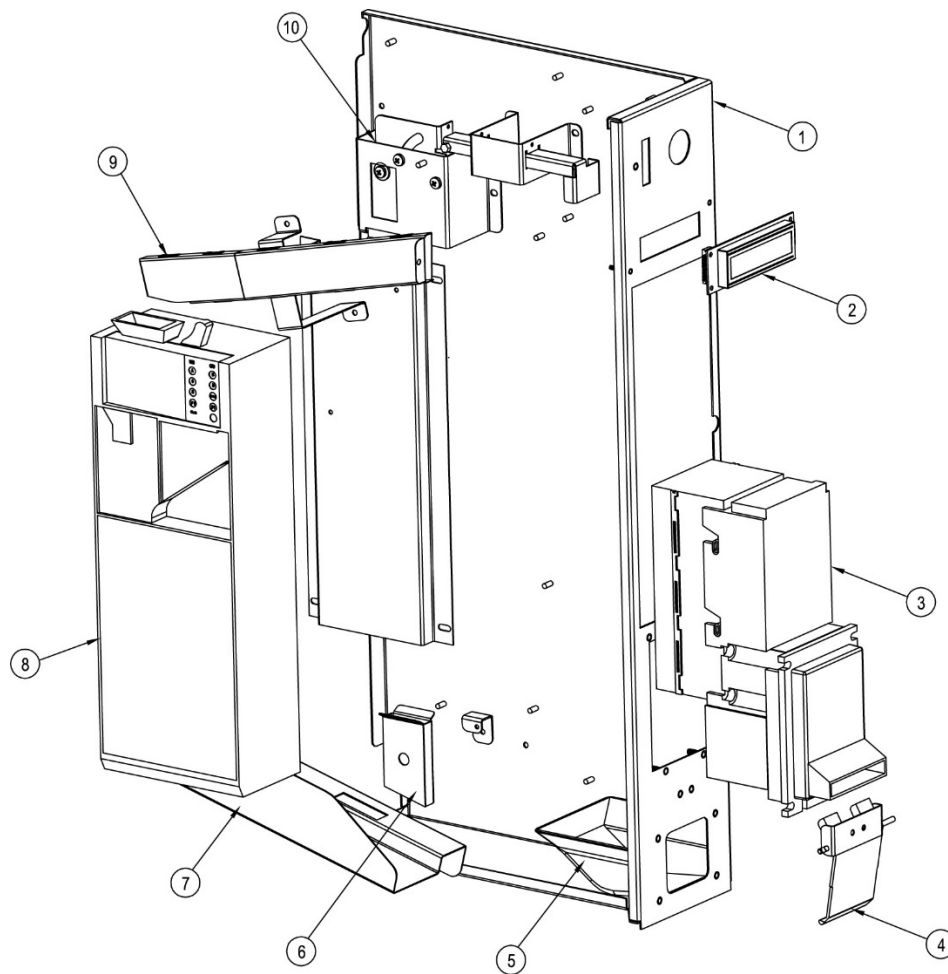
ITEM	PART NO.	DESCRIPTION
1	SA9401	MAIN CABINET
2	SA9410	PRODUCT DELIVERY SYSTEM
3	REI801A	REFRGERATION DECK ASSEMBLY
4	WE9410	FRONT PANEL
5	SA9420	DOOR
6	ELC348	POWER CORD
7	ELI460C	MAIN HARNESS BEVERAGE UNIT

Figure 25 – Beverage Unit Door (SM6RD)



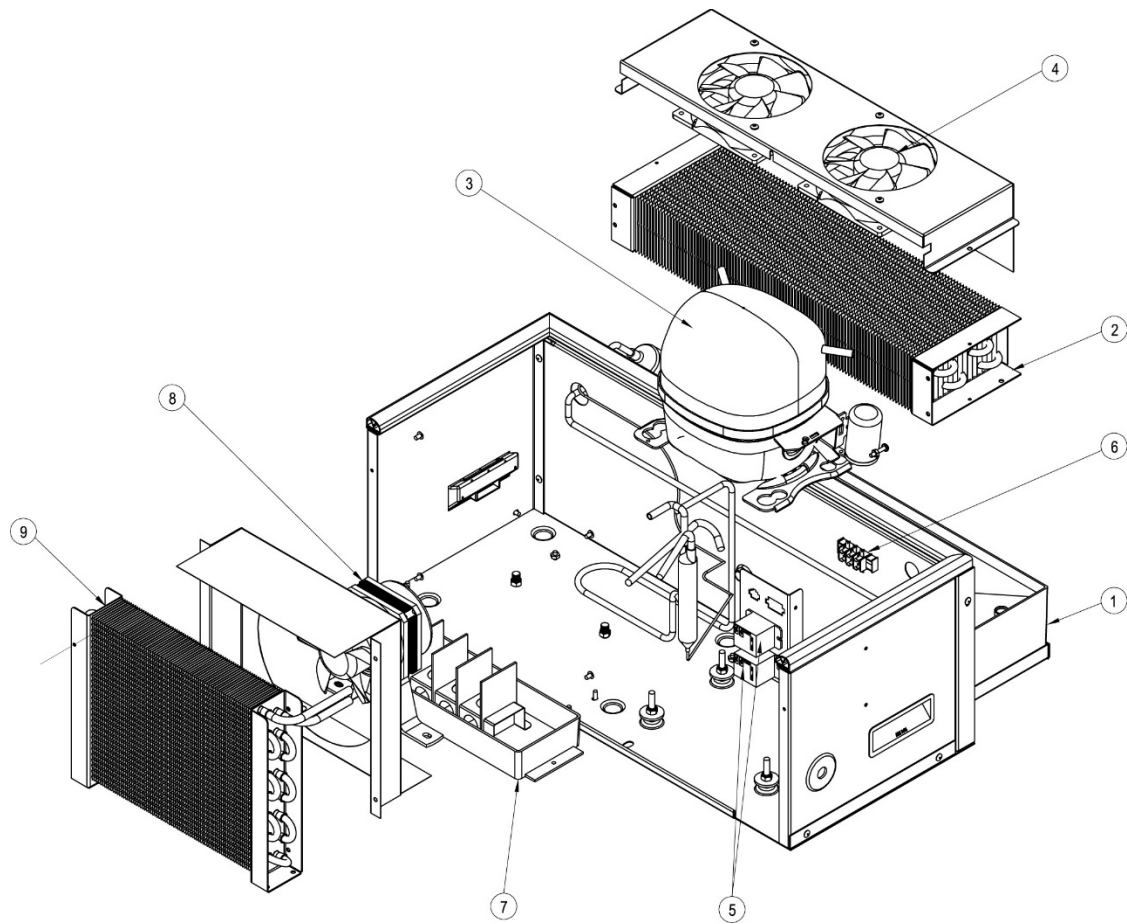
ITEM	PART NO.	DESCRIPTION
1	HAI246 and HAI247	T-HANDLE LOCK
2	SAI94006	DOOR
3	SA94010	DELIVERY DOOR
4	PLI2106	BEVERAGE DISPLAY COVER
5	PLI615	GASKET

Figure 26 – Vertical Shelf and Components



ITEM	PART NO.	DESCRIPTION
1	SAI92008	VERTICAL SHELF
2	ELI909	VFD DISPLAY
3	VARIES	BILL VALIDATOR
4	SAI920	COIN RETURN FLAP
5	PLI607	COIN RETURN CUP
6	SAI92024	COIN DROP CHUTE
7	SAI92029	COIN RETURN CHUTE
8	VARIES	COIN CHANGER
9	SAI92023	COIN INSERT CHUTE
10	SAI92016	COIN RETURN MECHANISM

Figure 27 – Refrigeration Deck



ITEM	PART NO.	DESCRIPTION
1	SAI94021	CABINET
2	REI830	EVAPORATOR
3	REI872	COMPRESSOR
4	REI300	FAN
5	ELI764	24 VOLT RELAY
6	ELI595	TERMINAL BLOCK
7	PLI612	CONDENSATE TRAY
8	REI612	CONDENSER MOTOR ASSEMBLY
9	REI609A	CONDENSER

LIMITED WARRANTY

Seaga warrants to the original purchaser that the equipment is free from defects in material and factory workmanship for a period of one (1) year from date of shipment.

This warranty applies only if the equipment has been serviced and maintained in strict accordance with the instructions presented in the Operator's Manual and no unauthorized service, repair, alteration or disassembly has been performed. Any defects caused by improper power source, poor water quality or pressure, an installed water filtration system not fully functioning, abuse of the product, accident, alteration, vandalism, improper service and maintenance schedules, use of products or ingredients not allowed in the machine, corrosion due to use of non-approved detergents or cleaning solutions, or damage incurred during return shipment will not be covered by this warranty. Further, equipment that has had the serial number removed, altered or otherwise defaced will not be covered by this warranty.

Lighting components, advertising player, glass, paint, decals, fuses, labor and/or installation are not covered by this warranty.

Follow proper maintenance procedures and use of equipment, as described in the Operator's Manual provided on Seaga's web site at seaga.com, which include but are not limited to:

- Cleaning of equipment including regular maintenance
- Proper installation and location of equipment with respect for the indicated temperature and humidity levels
- Proper use of equipment including loading, programming and setup

THIS WARRANTY IS EXCLUSIVE AND IS GIVEN BY SEAGA AND ACCEPTED BY BUYER IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALL SUCH OTHER WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED BY SEAGA AND WAIVED BY BUYER. Seaga neither assumes nor authorizes any person to assume for it any obligation or liability in connection with the sale of said unit(s) or any part(s) thereof.

Repair or replacement of proven defective parts is limited to manufacturing defects demonstrated under normal use and service during warranty period. Contact Seaga's Customer Care Department to be assigned a Return Authorization (RA) number. Seaga requires complete information including the serial number(s) of the machine(s), date of purchase and description of the part and/or suspected defect. Seaga may also be contacted, with complete information, by phone: 815.297.9500, by fax: 815.297.1700 and also by email: customercare@seaga.com

Send defective part(s), assembly or complete unit, Attention to the RA Number, prepaid or delivered to:



700 Seaga Drive
Freeport IL 61032

Seaga will repair or replace, at our option, any covered part which meets the provisions herein during the warranty period. It is our discretion to replace defective parts with comparable parts. Seaga reserves the right to make changes or improvements in its products without notice and without obligation, and without being required to make corresponding changes or improvements in equipment already manufactured or sold.

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