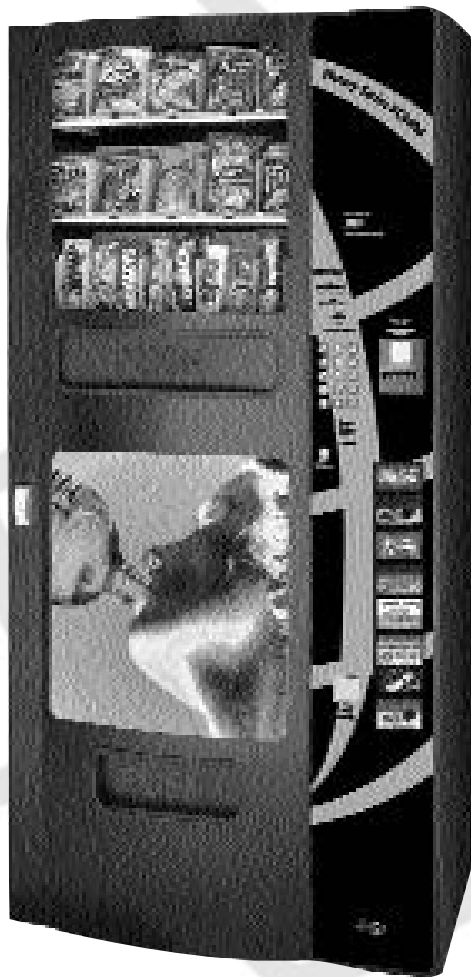




Electronic Combination Vendor



Operator's Manual

Seaga Manufacturing, Inc.
700 Seaga Drive
Freeport, IL USA 61032
www.seagamfg.com

For more information visit www.Gumball.com | 800-260-0010 | +1-214-550-5079

INTRODUCTION

Congratulations on the purchase of your new Victory Series Snack and Soda Vendor. This Victory Series Snack and Soda Vendor 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 Victory Series Snack Vendor 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 troubleshooting 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 any questions you may have on this process.

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.seagamfg.com. Should any problems occur, refer to the section entitled "COMMON QUESTIONS AND ANSWERS". It is designed to help you quickly identify a problem and correct it.

MANUFACTURER'S WARRANTY

WHAT IS COVERED:

Manufacturer warrants TO THE ORIGINAL PURCHASER ONLY that each item of equipment manufactured is free from defects in material and workmanship under normal use and service. Manufacturer's obligation under this warranty shall be limited to repair or replacement, at our plant, of any parts of the equipment which shall, within one year of the date of shipment to the original purchaser, be demonstrated to be defective. The original purchaser may obtain repair or replacement of the equipment under this warranty by returning the defective item or entire vendor to the Manufacturer, freight prepaid.

WHAT IS NOT COVERED:

Manufacturer's warranty obligations DO NOT EXTEND TO OR INCLUDE installation expenses, vandalism, or difficulties resulting from failure to operate equipment in accordance with Manufacturer's instructions under competent supervision and difficulties due to changes in vended products which are beyond the control of Manufacturer.

SPECIAL NOTE: Manufacturer is not responsible for any loss of income due to a vending machine being out of service due to a warrantable item.

This warranty is in lieu of all other warranties, expressed or implied, including the warranty of merchantability and fitness or use, and of all other obligations or liabilities on Manufacturer's part. Manufacturer neither assumes, nor authorizes any other person to assume for it, any other liability in connection with the sale of equipment manufactured by itself. This warranty shall not apply to equipment manufactured or any part thereof which is subject to accident, negligence, alteration, abuse, misuse or damage in shipment. The term "original purchaser," as used in this warranty, shall be deemed to mean that person for whom the equipment is originally installed.

Manufacturer is not liable for any incidental, consequential or other damages of any kind whatsoever, directly or indirectly, arising from the use of the equipment whether based upon theories of contract negligence or tort.

Effective 9/01

For Technical Support & Service

Contact our Customer Care Dept.

8:30 a.m. - 4:00 p.m. CST. Mon thru Fri

815.297.9500 ext 160

815.297.1758 Fax

email: customercare@seagamfg.com

For Parts

Contact our Parts Dept.

8:30 a.m. - 4:00 p.m. CST. Mon thru Fri

815.297.9500 ext 160

815.297.1758 Fax

email: parts@seagamfg.com



Seaga Manufacturing, Inc.

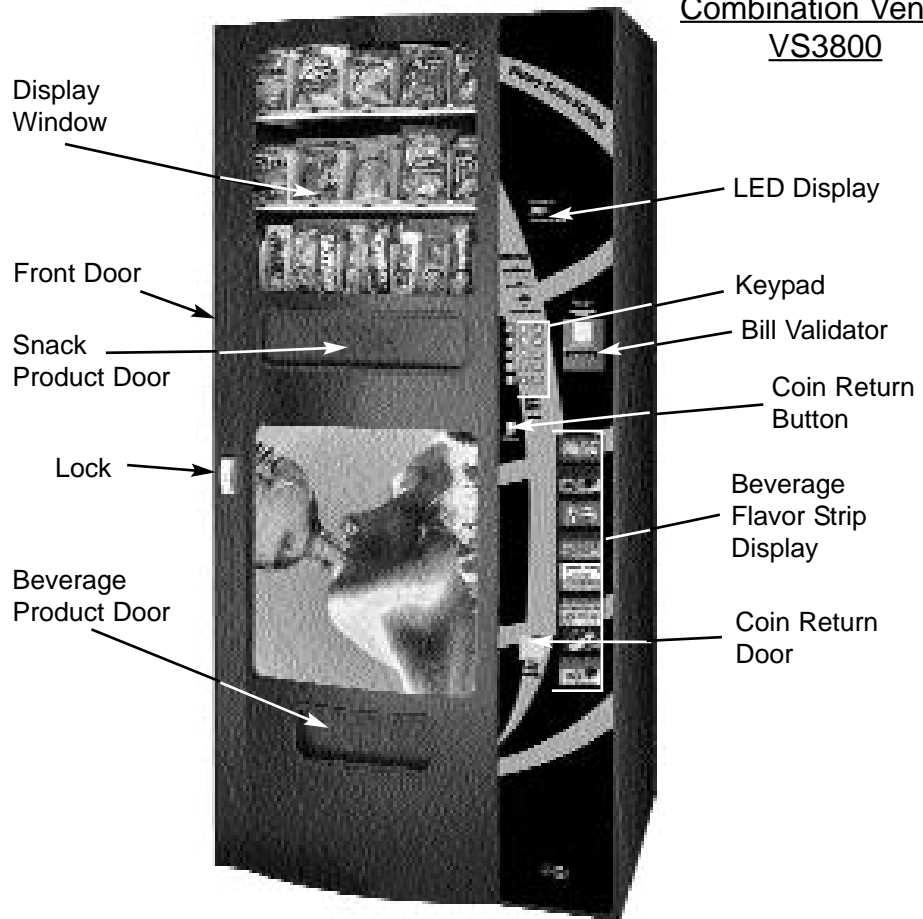
700 Seaga Drive

Freeport, IL 61032 U.S.A.

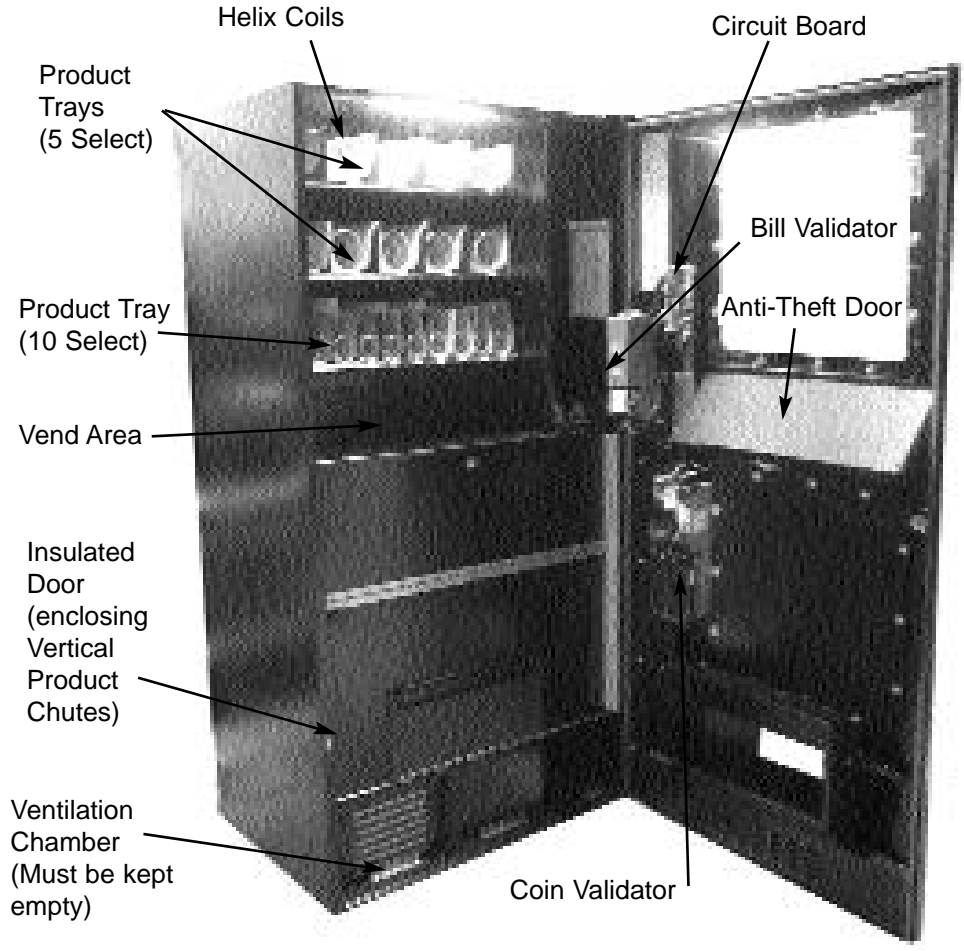
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Combination Vendor
VS3800



(Interior view with Front Door open)



The VS3800 Combination Vendor

INTRODUCTION

This manual is divided into four (4) main sections, General, Snack, Payment Systems, and Beverage.

IMPORTANT NOTICES

Your vendor is intended for indoor use only.

Your vendor must be set on a level, well-supported location.

Your vending machine has two (2) power cords. Both must be plugged into gain full use of your vending machine.

Leave at least 6" between the back of the vendor and wall.

Condenser cooling air is taken in the front and exhausted out the back.

Always unload vendor before transporting it.

Do not load your vendor with disfigured or damaged product.

Temperature is factory set. Allow your vendor(s) to operate for twenty-four (24) hours before attempting any adjustments.

Section 1

COMBINATION GENERAL INFORMATION

LOCK

Your Combination Vendor has one Lock, more commonly known as a "T" handle Lock. To unlock the Front Panel, insert key and turn clockwise ¼ turn. When unlocked the "T" of the Lock will pop out from the vendor. Turn ¼ turn clockwise to open Front Panel. The Key can be removed once the Lock has been unlocked.

LEVELING

Once your vendor is in its new location, you will need to level it to insure proper operation. We recommend that you use a 3ft (1m) level, as it will give a more accurate reading than a small torpedo level. There are threaded Levelers screwed into the bottom of your vendor that can be adjusted up or down as needed.

ELECTRICAL CONNECTION

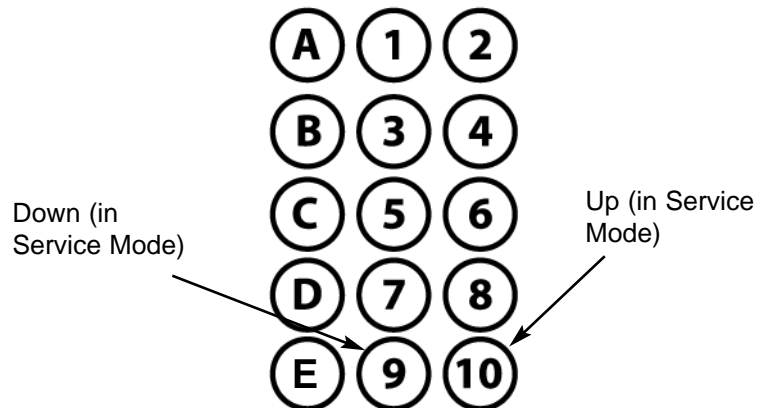
The Combination Vendor requires one (2) 120 VAC grounded outlets.

Combination Vendor 120 Volts 4 Amps

KEYPAD AND LED DISPLAY

The Keypad (Fig. 1) is a touch sensitive operation. Light pressure will be necessary to activate each number or letter. The vendor's Keypad is used by the customer to make their selection, and by the operator to set and test many functions of the vendor. The LED Display shows the customer the amount of money entered into the vendor, and the cost of their selection, it shows the operator the Service Mode functions for setting and testing the various functions of the vendor.

Figure 1 Keypad Layout

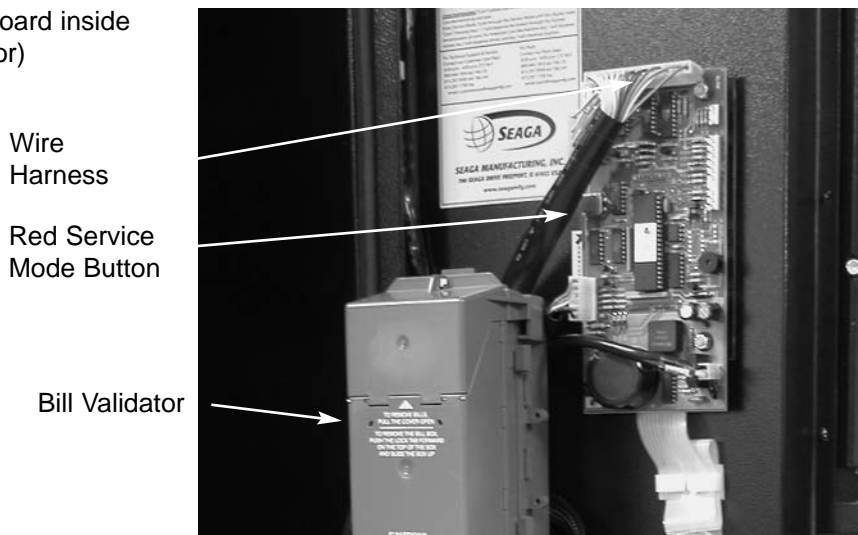


1. To Access Operator Functions:

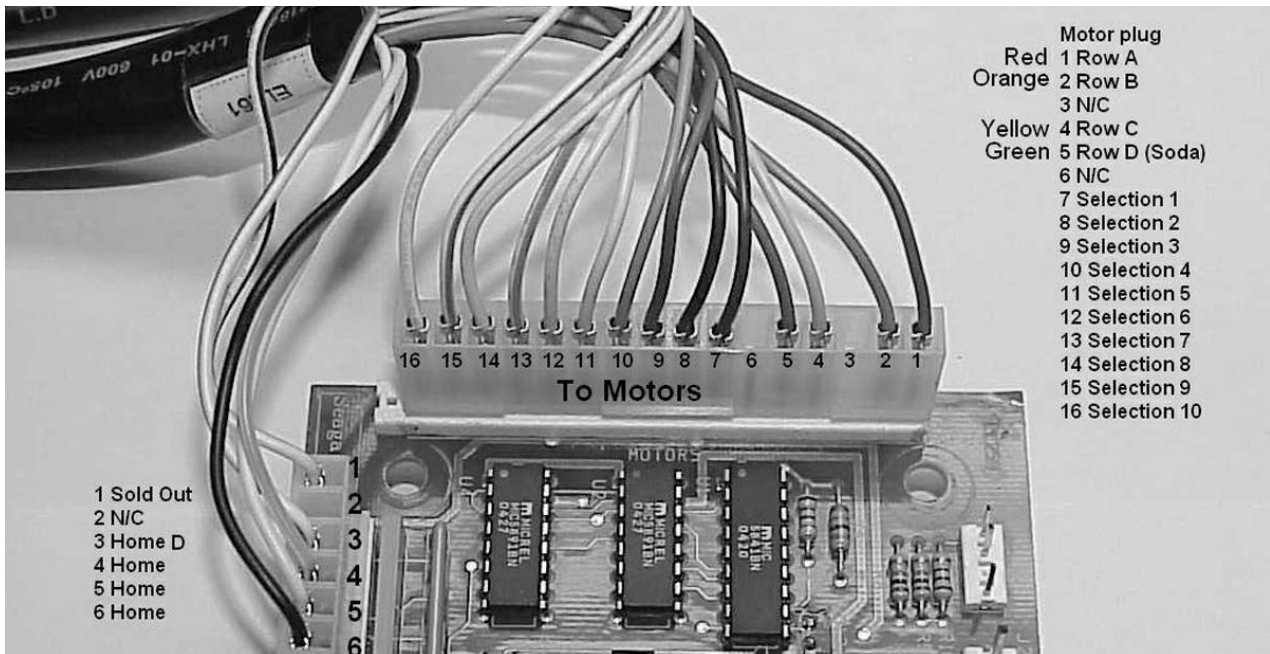
- A.) Unlock and open the Front Door to access the Circuit Board, and enter Service Mode by pressing the Red Service Mode Button. (Fig. 2)

Figure 2 Service Mode Button

(Circuit Board inside Front Door)



NOTE: when plugging in wire harnesses after servicing, be aware that the side of the wire harness plug that shows silver connectors always face the outside edge of the circuit board or see below for color chart.



The following information is repeated, for your convenience, on a sticker within the vendor.

SERVICE MODE

The Service Mode is entered and exited by pressing the Red Service Mode button on the Circuit Board. All Service Mode functions are cycled and selected by pressing the DOWN (9) and UP (10) keys. If no action is taken within 20 seconds the display will return to Standard Operating Mode.

MOTOR COUNT("Cnt")-displays the total count of motors available in this vendor.

Enter Service Mode. Cycle through the Service Mode until the display reads "Cnt". Press any keypad character other than the DOWN (9) or UP (10) key and the controller will display the motors it recognizes. The total number of motors should equal the total number of selections.

BILL ESCROW("ES")-optional setting that when ON will return the bill to the customer on demand, when OFF the vendor will return coins to the customer.

Enter Service Mode. Cycle through the Service Mode until the display reads "ES". Press any keypad character other than the DOWN (9) or UP (10) key to turn this mode ON ("ES y") or OFF ("ES n"). Press "A" to save the new setting.

MULTI-VEND MODE("UL")-optional setting that when ON allows more than one vend to be performed, provided there is still credit remaining.

Enter Service Mode. Cycle through the Service Mode until the display reads "UL". Press any keypad character other than the DOWN (9) or UP (10) key to turn this mode ON ("UL y") or OFF ("UL n"). Press "A" to save the new setting.

FORCE-VEND MODE("FC")-optional setting that when ON requires a purchase once credit has been deposited.

Enter Service Mode. Cycle through the Service Mode until the display reads "FC". Press any keypad character other than the DOWN (9) or UP (10) key to turn this mode ON ("FC y") or OFF ("FC n"). Press "A" to save the new setting.

BEVERAGE SOLD-OUT MODE("Can")-optional setting that when ON operates sold-out function for this vendor, and will display "Sold Out" when selection is empty.

Enter Service Mode. Cycle through the Service Mode until the display reads "Can". Press any keypad character other than the DOWN (9) or UP (10) key to turn this mode ON ("Can y") or OFF ("Can n"). Press "A" to save the new setting.

TEST ALL MOTORS("Test")-allows user to test all motors in your vendor.

Enter Service Mode. Cycle through the Service Mode until the display reads "Test". Press any keypad character other than the DOWN (9) or UP (10) key to test all motors. No other function can be accessed during the test. The time this function requires will vary. Display will return to Standard Operating Mode.

INDIVIDUAL MOTOR TESTING("Slct")-allows user to individually test each motor in this vendor.

Enter Service Mode. Cycle through the Service Mode until the display reads "Slct". Enter any selection to test it's motor. (ex. A1)

PRICE SETTING("Prc")-allows the user to set individual prices for each motor or item loaded in your vendor.

Enter Service Mode. Cycle through the Service Mode until the display reads "Prc". Standard selections are Snack: A1-A5, B1-B5, C1-C10, and Beverage: D1-D8. Enter any selection to display current price. (ex. A1) Press the DOWN (9) or UP (10) key to change the price for that selection. Price settings will change in 5 cent increments. Press "A" to save the new price.

CASH HISTORY("Cash")- displays total cash count.

Enter Service Mode. Cycle through the Service Mode until the display reads "Cash". Press any keypad character other than the DOWN (9) or UP (10) key to display the total cash count the vendor has accumulated. This function cannot be reset to zero.

SALES HISTORY("Sale")-displays total vend count.

Enter Service Mode. Cycle through the Service Mode until the display reads "Sale". Press any keypad character other than the DOWN (9) or UP (10) key to display the total vend count that your vendor has performed. This function cannot be reset to zero.

COIN DISPENSING("Coin")-allows user to manually dispense coins from the Coin Mechanism by coin type.

Enter Service Mode. Cycle through the Service Mode until the display reads "Coin". Pressing keys 1-7 will dispense the lowest through the highest denomination of coins. For American Coin Mechanisms key 1 will dispense nickels, key 2 will dispense dimes, and key 3 will dispense quarters.

Special Note: To avoid customer aggravation, Multi-Vend and Force-Vend should NOT be turned on at the same time.

GENERAL NOTES

It is suggested that a toolbox accompany you to each of your locations. Suggested items for this toolbox would include a socket set, (up to a 1/2" socket size suggested) a Phillips and a Standard screwdriver. Additional items would be a soft rag and perhaps a black marker. The marker is useful in touching up light scratches that may occur to your vendor.

Section 2

COMBINATION SNACK SECTION

DELIVERY SYSTEM

The Snack Delivery System of your Combination Vendor consists of the Driver Motors, Product Trays, Product Chutes, and Helix Coils. The customer inserts money and enters their selection on the Keypad. The selection's Driver Motor turns the Helix Coil that vends the product.

Figure 3 Loading Product

Front view



To present your product in as an attractive and professional manner as possible, do not load any damaged items, and make sure items are facing forward for easy identification by your customer.

Note: The size of the item being vended must be larger than the Helix Coil, but smaller than the Column, to vend correctly. Never force an oversized item into the Helix Coil or Column, nor attempt to vend an item that is smaller than the Helix Coil as this will create problems and deter customers. (Fig.3)

1. To Load Product:

- A.) Pull out desired Product Tray all of 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 Helix Coil. Note: Bottom of product must rest on the Product Tray and not on the Helix Coil. (Fig. 3) Load each Column from front to back. **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

Figure 4 Delivery System

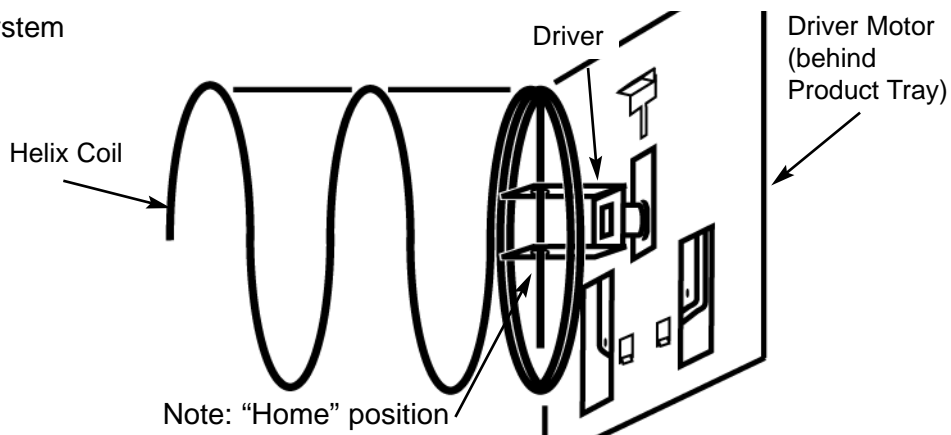
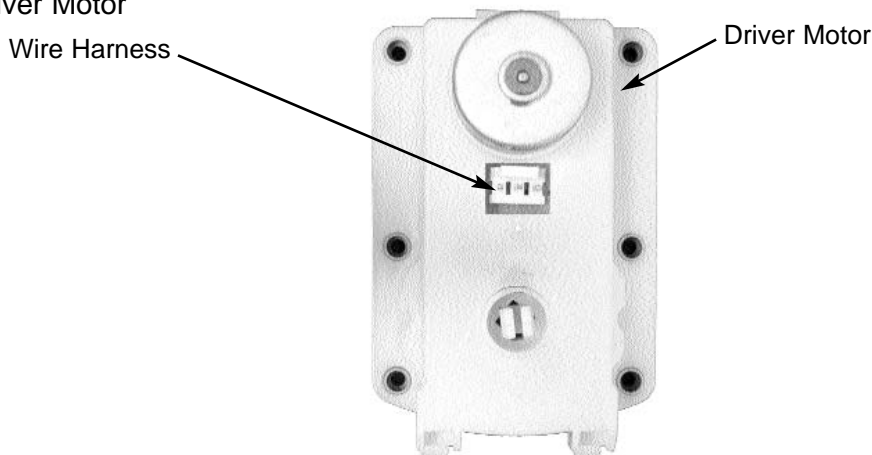


Figure 5 Snack Driver Motor



above steps until all Product Trays are fully loaded.

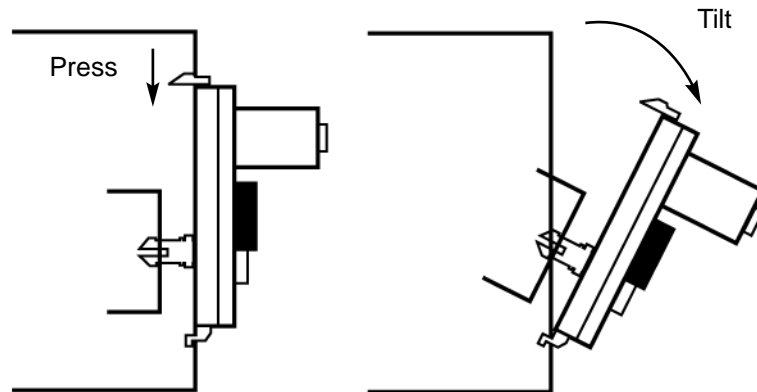
To increase the length of the Helix Coil, white plastic Product Pushers can be snapped on the end. A supply of Product Pushers are provided in the vendors hardware bag.

Special Note: We suggest that you always partially fill the vendor with product and perform at least five (5) test vends. Test vends can be performed easily by entering Service Mode and running "Individual Motor Testing". (See: Keypad and LED Display, Individual Motor Testing.)

SNACK DRIVER MOTORS

Each selection is vended by the action of the Driver Motor. The VS3800 has 20 Snack Driver Motors. The Driver Motors are clipped to the rear of each Product Tray.

Figure 6 Motor Removal



In the rare event of a jam a Driver Motor may need to be returned to its home position. The home position is when the shaft of the Helix Coil that is held by the Driver is vertical, with the end of the shaft pointing down. (Fig. 4)

1. To "Home" a Driver Motor.

- A.) Unlock and open the Front door to access the Circuit board, and enter Service Mode by pressing the Red Service Mode Button (Fig. 2)
- B.) Cycle through the Service Mode until the display reads "SLCT".
- C.) Enter the letter and number of the motor you wish to home. The motor will rotate to it's home position.

2. To Remove a Driver Motor.

- A.) Unlock and open Front Door
- B.) Pull Product Tray fully forward, keeping it level.
- C.) Lift Product Tray to release from the track. Then can be pulled forward and lifted 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 inside right-hand side of the vendor. You may need assistance.

- D.) Set back of Product Tray into Vend area, steady it with one hand, and disconnect the Wiring Harness.
- E.) Remove Helix Coil from Driver by lifting the front end of the Helix Coil up with one hand while guiding the rear of the Helix Coil with the other.

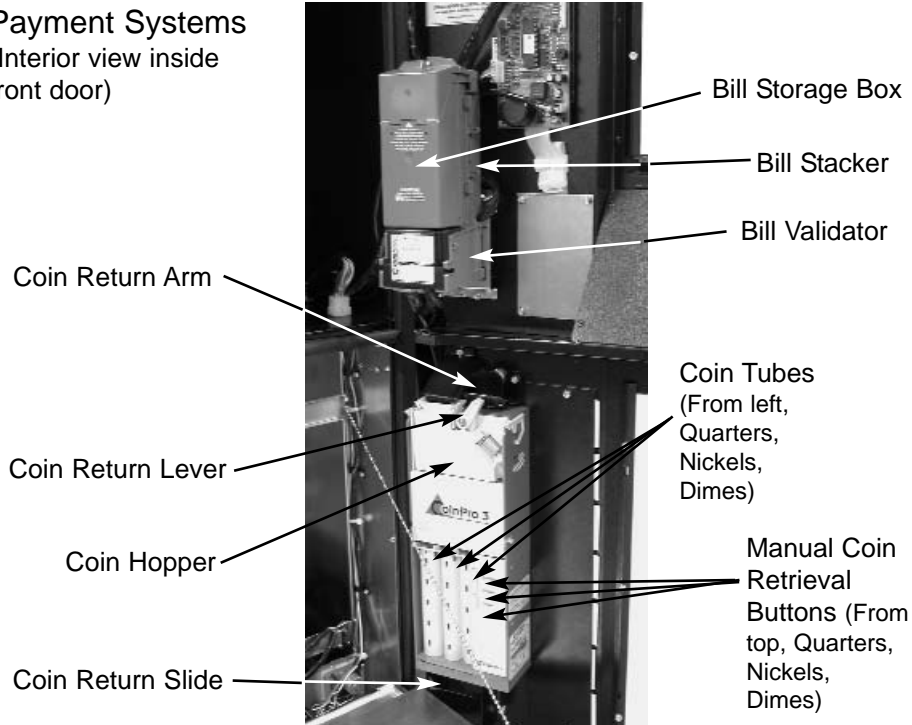
Note: This operation is more difficult with the smaller Helix Coils.

- F.) Depress the top tab on the Driver Motor, tilt the Driver Motor backwards, and lift the Driver Motor free. (Fig. 6)
- G.) Disconnect Wires.
- H.) Replace Driver Motor by repeating above steps in reverse order.

COMMON SNACK QUESTIONS AND ANSWERS

- Q: How high can I set my prices?
A: Each selection can be individually priced up to \$95.95.
- Q: Can customers reach up and help themselves to product?
A: No. The Product Door is a Triangle shape designed to deter reach up theft. When pushed, the back of the door will come in contact with the bottom Product Tray to act as a block.
- Q: My vendor is plugged into a live outlet, I have tested the outlet, but my vendor has no power.
A: Inside the vendor to the right of the snack area there is a Transformer. Check the Circuit Breaker on the Transformer.

Payment Systems
(Interior view inside front door)



- Q: Motor does not cycle.
A: Check the Wire Harness on the motor for a loose wire. Check to see if the motor is jammed or out of home. Home the motor per "Driver Motors".
- Q: When I make a particular selection, the display reads fail.
A: Perform the "Motor Count" per "Keypad and LED Display" If the number of Driver Motors found matches the total number of selections, check the wiring connections at the Driver Motor and the Circuit Board.
- Q: Motor cycles but product will not drop.
A: Check to see if the product is jammed in the Product Chute. Check to see if the vendor is level. Check product for damage, and make sure it is the proper size. Install Product pushers on the ends of the Helix Coils to assist in vending.
- Q: In the event of a power outage, will I have to reprogram my vendor?
A: No. Your selection prices are safely stored.
- Q: The vendor will not allow me to change prices.
A: Reset the Circuit Board by pressing the Red Service Mode button while unplugging the vendor. You may need assistance. You will need to reenter all prices. Note: This will not reset "Cash Hist" or "Sales Hist".

Section 3
MONEY MECHANISMS

COIN VALIDATOR

Note: The manufacturer's Coin Validator manual is packed with your vendor. The following is intended as an addendum to the manufacturer's manual.

The Coin Validator receives and returns change to your customers. The Coin Validator is installed at the factory, and will accept quarters, dimes, and nickels. The Coin Validator can be set to accept the new golden dollar. Quarters that are not needed to maintain inventory in the Quarter Tube, and all other coins are diverted to the Coin Tray. It is recommended that you initially load the tubes at least half full when setting up your vendor and that you not allow your vendor's coin inventory to drop below that.

COIN RETRIEVAL

Coins can be retrieved from the vendor in three (3) ways, the Coin Tray, Manual Coin Retrieval Buttons, and the Coin Return Button. The Coin Tray sits above the beverage vend area. The Coin Tray holds all accepted coins, except for quarters needed to maintain inventory in the Quarter Tube. (Some overflow may occur.) The Manual Coin Retrieval Buttons are along side the Dime Tube, pressing a button will dispense one (1) of the selected coins into the Coin Return. The Coin Return Button moves the Coin Return Arm, and pushes the Coin Return Lever returning coins to the customer that have been inserted.

Figure 7 Bill Validator

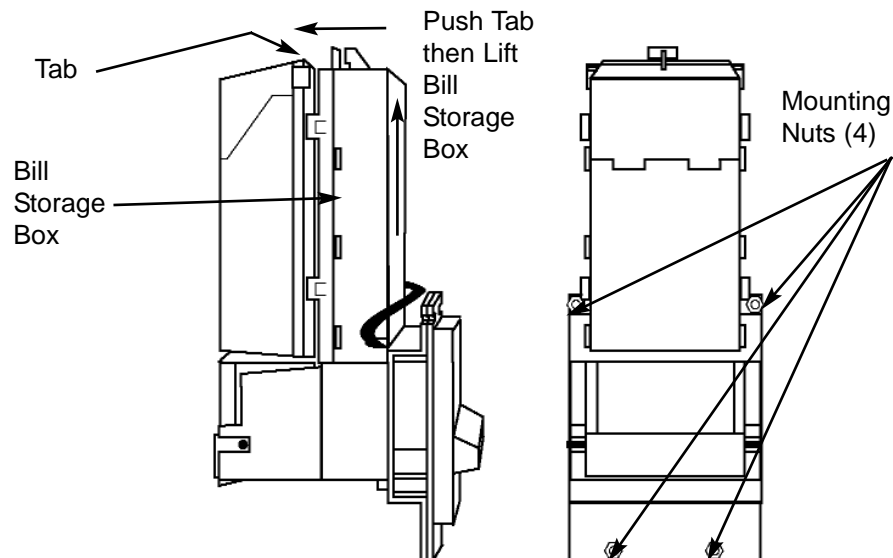
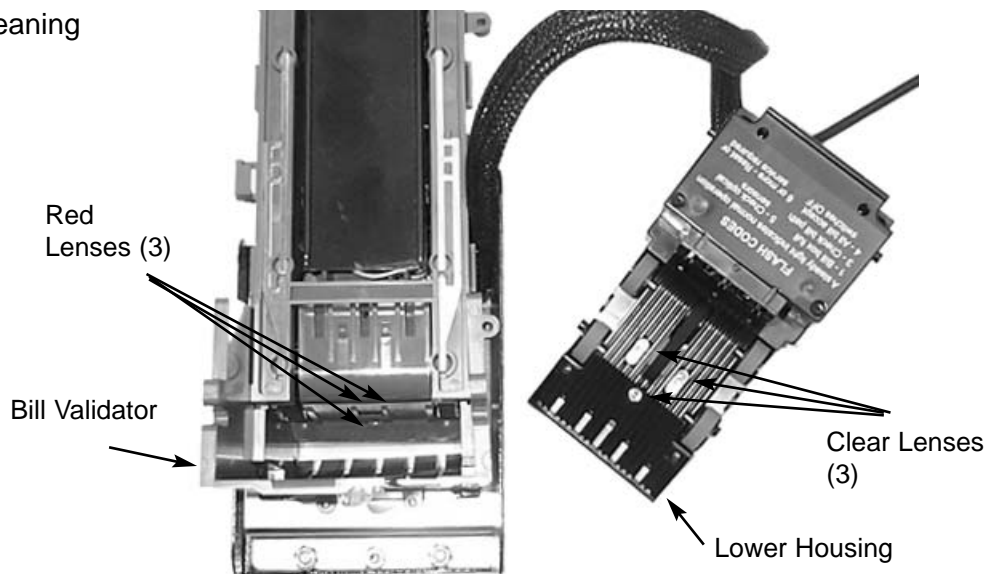


Figure 8 Lens Cleaning



CAPACITY

The Coin Validator will hold \$20 in quarters, \$10.60 in dimes, and \$3.65 in nickels. The Coin Validator can be set to maintain either \$4.50 or \$20 in the Quarter Tube. If you intend to vend high-ticket (over \$1) items through your vendor, or the vendor is in a high traffic area, you may want to set the Coin Validator to maintain a full Quarter Tube. The Bill Validator will not accept \$5 bills unless the quarter tube is nearly full. Refer to the manufacturer's manual to adjust option switch settings.

CLEARING JAMS

To clear a jam, remove the Hopper Assembly.

1. To Remove the Hopper Assembly.

- A.) Unlock and open the Front Door, unplug vendor.
- B.) Loosen the two (2) mounting screws that hold the Coin Return Arm and Coin Chute to the White Vertical Shelf, and shift this assembly up. This assembly does not need to be removed.
- C.) Push the Thumb Tabs up, and tilt the Coin Hopper forward. (Fig. 7)
- D.) Lift and remove. Note: The Coin Hopper is still connected to the Coin Validator by the Ribbon Cable that can be pulled free. (Fig.8)
- E.) Clear jam and reassemble.

CLEANING

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

1. Cleaning the Optics. You will need cotton swabs (Q-tips), and a mild soap and water solution.

- A.) Unlock and open the Front Door.
- B.) Remove the Coin Tray, and pull the Vertical Shelf out.

- C.) Tilt the Coin Hopper open, there are two (2) Lenses on the Flap and two (2) Lenses inside the Coin Hopper.
- D.) Swab the lenses with the solution, and reassemble.

REMOVAL OF THE COIN VALIDATOR

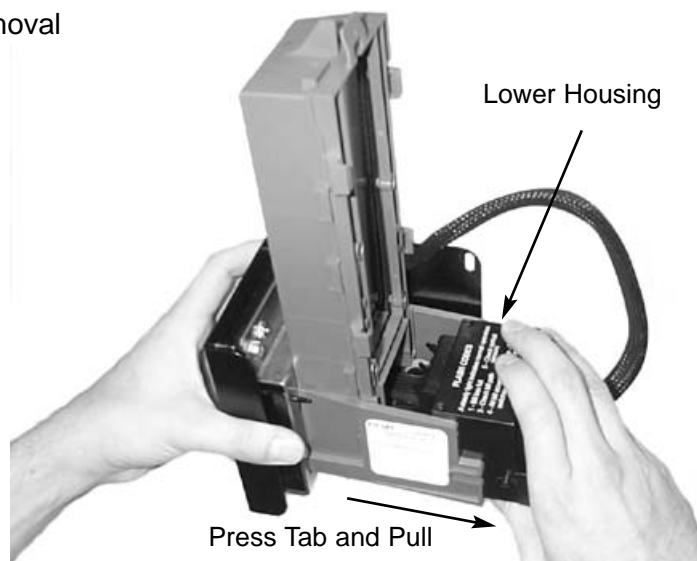
1. To Remove the Coin Validator.
 - A.) Remove the Coin Hopper as above.
 - B.) Loosen the three (3) Mounting Screws.
 - C.) Disconnect Wiring Harness.
 - D.) Lift Coin Validator and remove.

BILL VALIDATOR

Note: The manufacturer's Bill Validator manual is packed with your vendor. The following is intended as an addendum to the manufacturer's manual.

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, \$2, and \$5 bills, but will not accept \$2 and \$5's unless the Coin Chutes are nearly full. The Bill Validator can be set to also accept \$10, and \$20 bills. Unless you intend to vend high-ticket specialty items from your vendor, your Bill Validator need not accept \$10 and \$20 bills.

Figure 9 Lower Housing Removal



CAPACITY

The Bill Storage Box will hold approximately 500 dollar bills.

BILL RETRIEVAL

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

1. To Retrieve Bills.
 - A.) Unlock and open the Front Door.
 - B.) Pull Tab forward and lift Bill Storage Box. (Fig. 7) Remove bills.
 - C.) Return empty Bill Storage Box.

CLEANING

It is recommended that you clean your Bill Validator frequently to keep it in order. How frequently and how thoroughly you clean it will depend on the amount of traffic your vendor serves. Cleaning the Bill Validator can correct problems with service. There are three levels to the cleaning process. Cleaning with a Cleaning Card, cleaning the Optics, and washing the Lower Housing.

1. Cleaning with a cleaning card, will perform a basic clean. The vendor does not need to be opened. Seaga Manufacturing recommends CLEAN TEAM cards that can be obtained online at www.cleanteam.com or by calling 1-800-888-8830.

- A.) Insert the cleaning card in the same manner you would a regular dollar bill, the card will be rejected.
 - B.) Repeat once. Do not reuse the card.
2. Cleaning the Optics is the second level of cleaning. You will need cotton swabs, and a mild soap and water solution.
 - A.) Remove the Bill Validator as described earlier in the manual.
 - B.) Remove the Lower Housing. There are three (3) Clear Lenses on the Lower Housing and three (3) Red Lenses inside the Bill Validator. (Fig. 8)
 - C.) Swab the lenses with the solution, and reassemble.
 3. Washing the Lower Housing is recommended at least once per year. You will need a mild soap and water solution and a cloth.
 - A.) Remove the Bill Validator as described earlier in the manual.

- B.) Remove the Lower Housing (Fig. 9).
- C.) Moisten the cloth. You will want the cloth moist, but not dripping.
- D.) Wipe down the Lower Housing and the inside of the Bill Validator and reassemble.

COMMON PAYMENT SYSTEM QUESTIONS AND ANSWERS

- Q: Coin Validator will not accept coins.
 A: Lenses may be dirty.
 Coins may be damaged or worn.
 Wire Harness may not be connected properly.
 Coin Validator may not have power.
- Q: Optional Bill Validator will not accept bills.
 A: Stacker may be full.
 There may not be enough coins in the Coin Validator.
 Wire Harness may not be connected properly.
 Bill Validator may not have power.

**Section 4
 BEVERAGE VENDOR**

TEMPERATURE CHECK

Once your vendor is unboxed you will need to plug in your vendor and allow the vendor to come to operating temperature. We recommend that you perform this check prior to installing the Combination Vendor. It will take about 24 hours for the vendor to reach operating temperature of 38°- 45°. Temperature fluctuation is normal, and will depend upon your local climate. **Note:** Never lay your vendor on its side. To adjust the temperature, turn the Adjustment Slot Counter (1/8" at a time) clockwise to a colder setting.

Special Note: We suggest that you always partially fill the vendor with product and perform at least five (5) test vend, and test vend each selection. Test vends can be performed easily by entering Service Mode and running "Individual Motor Testing". (See: Keypad and LED Display, Individual Motor Testing.)

Figure 10 Vertical Product Chute Left Wall

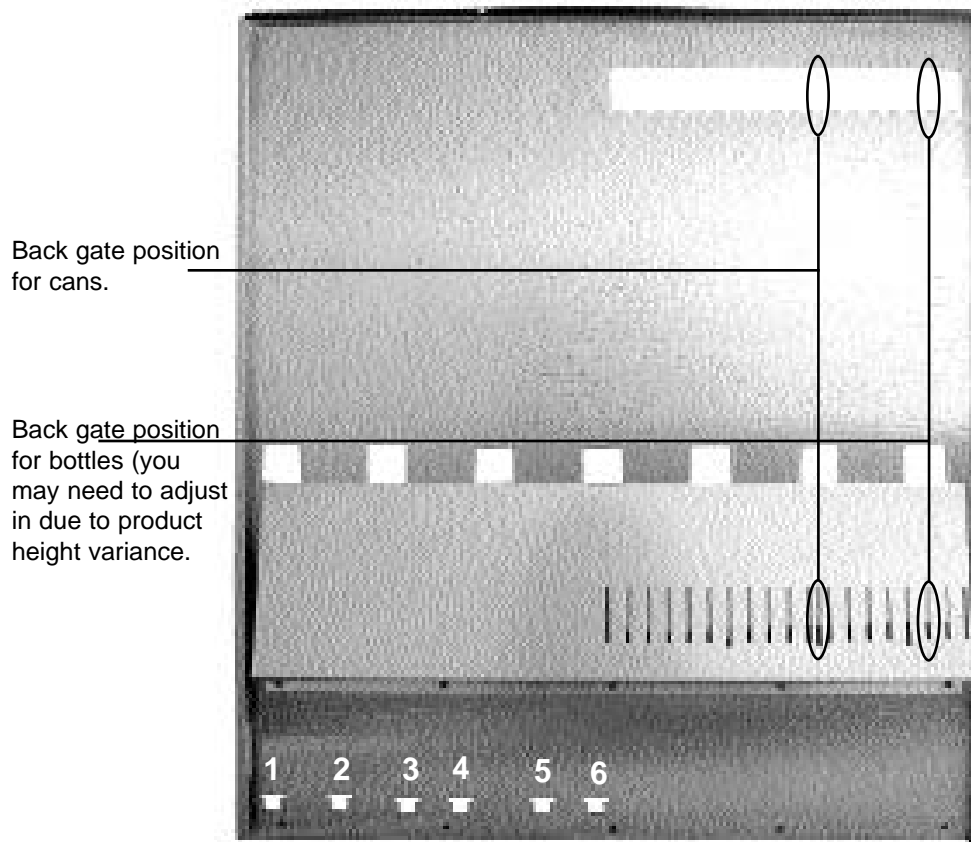


Figure 11 Product Chute Parts

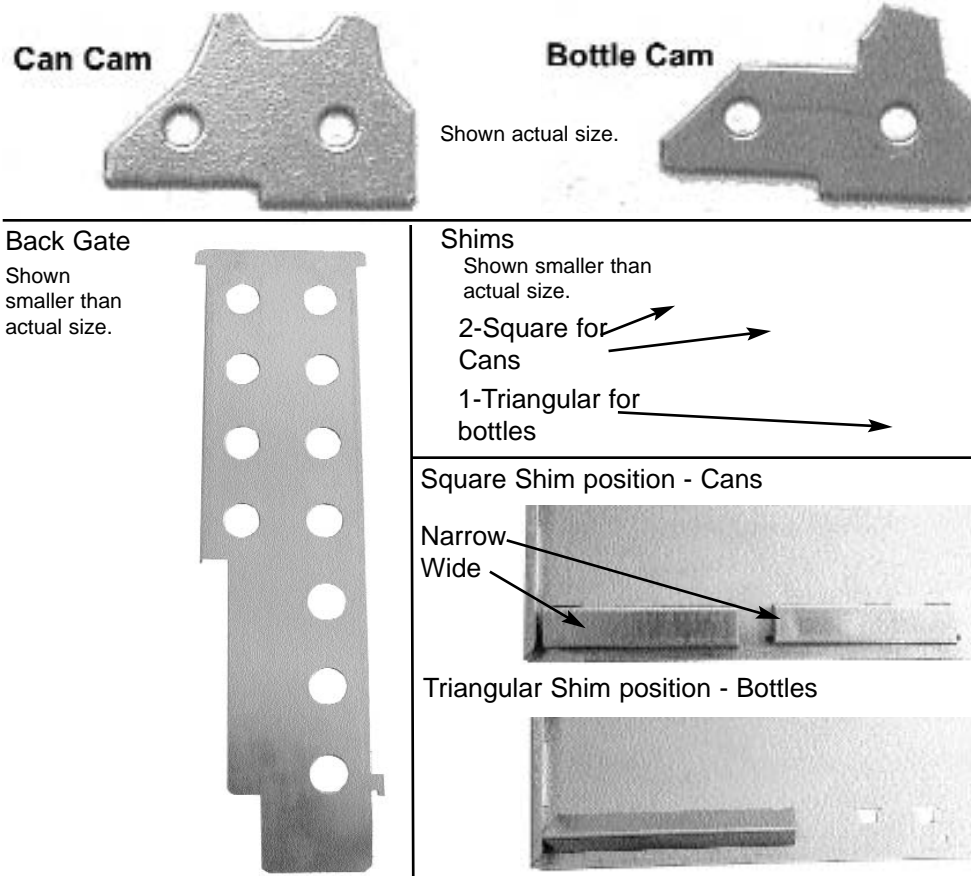
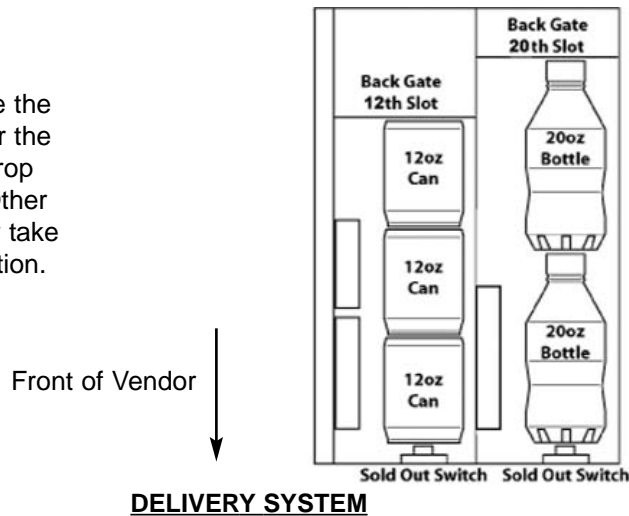


Figure 12 Product Configuration

Presented here are the two applications for the VS3800 Vertical-Drop Delivery system. Other configurations may take some experimentation.



The Beverage Delivery System consists of the Vertical-Drop Product Chutes, Back Gate, Large and Small Shims, Driver Motors, and the Can Auger. The customer inserts money and enters their selection on the Keypad. The selection's Driver Motor turns the Can Auger that vends the product.

There is a sold out switch at the front of each Vertical-Drop Product Chute that will indicate "Sold-Out" when it does not detect product. **Note:** When the "Sold-Out" Light is indicated, either 2 cans or 1 bottle will be remaining in the Product Chute.

PRODUCT CHUTE SET-UP

Each Vertical-Drop Product Chute can be reconfigured to vend product from 2.5" (64mm) diameter to 3.125" (79mm). Since 12oz (355ml) cans and 20oz (591ml) bottles are the most common application those are the only ones discussed in this manual. Much of this information is repeated within the vendor.

The Vertical-Drop Product Chutes are factory set as follows D1, D2, D7 and D8 are set for 12oz (355ml) cans. D3, D4 and D6 are set for 20oz (591ml) bottles. Due to vibration during shipping, you may need to reset the Shims or Back Gate. This is normal.

Common Configurations.

1. 12oz (355ml) cans.

- A.) The Back Gate (Fig. 10) is to be located in the 12th slot of the Back Gate. (Fig. 11)
 - B.) The Large Shim is to be in Slots 1,2 and 3.
 - C.) The Small Shim is to be in Slots 4, 5 and 6.
 - D.) The replaceable Motor Cam (beverage only) should be the 3 stop Cam.
 - E.) Load Product with top of can facing the front of the vendor. (Fig. 12)
2. 20oz (591ml) bottles.
- A.) The Back Gate (Fig. 10) is to be located in the 18th slot of the Back Gate (Fig. 11)
 - B.) The Large Shim is to be in Slots 1-4.
 - C.) The replaceable Motor Cam (beverage only) should be the 2 stop Cam.
 - E.) Load Product with bottom of the bottle facing the front of the vendor. (Fig. 12)

There are three steps in changing a soda selection from can to bottle or vice versa. The only tool needed will be a phillips head screw driver.

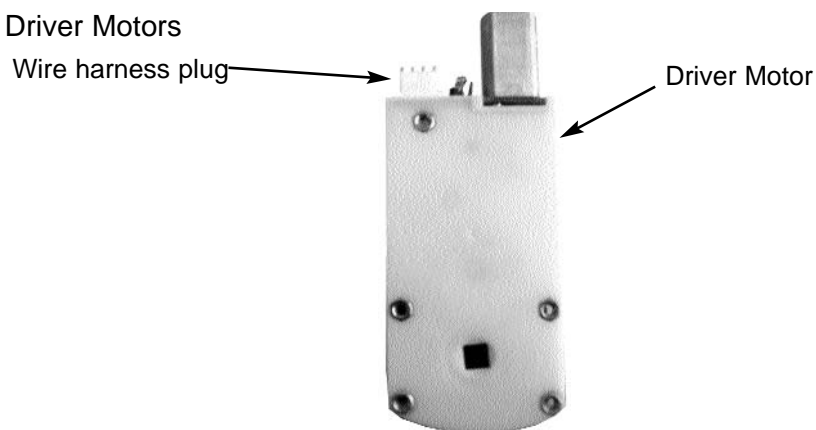
1. The back gate needs to be adjusted to fit your product. This is done by sticking your fingers thru the holes in the back gate and lifting to release the retaining tabs that secure it in the slots in the delivery system sides. Once released the gate can be moved forward or back to accommodate a variety of different sized products. It is important to note that the gate needs to be vertical when installed correctly and that the sold out switch (located to the front of the column) is depressed when there is product in the column. If this is not done correctly the product may not move down the column smoothly and become jammed. It may also cause the sold out operation to work incorrectly.

2. The correct shims need to be installed to correspond with the product to be vended. For bottles, the triangular shim is used and is mounted into the first four slots at the bottom of the delivery system side. For cans, both of the square shims are needed. The wider square shim is mounted in the first three slots, and then the narrower square shim mounted in next three slots. The slots in the delivery system sides and tabs on the shims are spaced so that there is no possibility of installing them in the wrong location.

3. The correct cam needs to be installed to correspond with the product to be vended. For bottles the "bottle cam" is used and for cans the "can cam" is used. To install the cam, the soda vend motor may need to be ran to locate the cam into the position for changing. To locate the cam, look below the soda vend motor on the black auger that rotates to drop the products. This auger will stop in various positions as it rotates, depending on which cam is installed on it. There is one position that all of the augers will stop that leaves the cam at the bottom of the auger (about the 6 o'clock position). Once in this position, the screws that hold the cam onto the auger may be loosened and the correct cam installed. Note the cam and auger are constructed in such a way that the cam can not be installed upside down.

The soda vend motor should not need to be removed, but if required to do so, they can be removed by removing the two screws that hold the motor bracket onto the motor panel. There are wires connected to a switch that is mounted on this bracket, once the screws are out, the entire bracket and switch can be carefully pulled off the motor and lowered out of the way. The motor can then be slid off of the auger shaft that sticks into it. Note that the motor harness will still be pulled into the top of the motor and can be unplugged for total removal of motor.

Figure 13 Beverage Driver Motors



PRODUCT VIEWING AND ADVERTISEMENT

Your Beverage Vendor features “flavor strip” display. This means that your customers will see small cards that represent the selections they have.

- 1.) Set-Up of “flavor strip” Display.
 - A.) Unlock and open the Front Door.
 - B.) Load flavor strip to correspond with its Product Chute, by sliding the flavor strip in from top to bottom into the side of the display panel. The nuts do not need to be loosened or removed.

Note: To present your product in as an attractive and professional manner as possible, do not load any damaged flavor strips, and make sure items are turned correctly for easy identification by your customer.

BEVERAGE DRIVER MOTORS

Each selection is vended by the action of the Driver Motor. The VS3800 has 8 Beverage Driver Motors. The Driver Motors are attached with 2 screws to the front the Motor Bracket.

1. To Remove a Driver Motor.
 - A.) Unlock and open the Front Door, unplug vendor.
 - B.) Unload any product from the Product Chute in question.
 - C.) Disconnect Wires.
 - D.) Remove 1 screw on both sides of motor bracket.

"SLIDE-OUT" REFRIGERATION SYSTEM

The Combination Vendor features an easily removable, self contained, refrigeration system.

CLEANING THE CONDENSER

Dust and dirt restricts good airflow and function of the condenser and causes the refrigeration unit to not chill properly. It is extremely important to keep your condenser clean. First, unplug your vendor from its power source. Locate the inlet vent for the condenser on your machine. Brush the dirt and dust from the condenser and grill. Locate the exhaust opening for the cooling system. Blow air on the condenser or vacuum clean it. Do not damage the fins of the condenser while cleaning. Depending on your location, your grill and condenser may need to be cleaned as often as once a week, but should be checked regularly.

COMMON BEVERAGE QUESTIONS AND ANSWERS

- Q: Motor does not cycle.
A: Check the Wire Harness on the motor for a loose wire.
Check to see if the motor is jammed or out of home. Home the motor per "Driver Motors".
- Q: Motor cycles but can will not drop.
A: Check to see if the can is jammed in the Product Chute.
Check to see if the vendor is level.
Check product for damage, and make sure it is the proper size.
- Q: Cans occasionally stick in my Delivery System.
A: This is not uncommon. Some cans may have defects or foreign matter that may cause them to hesitate, resulting in delayed advancement of product.
- Q: How does my VS3800 know it's out of product?
A: There is a sold out switch near the end of each Product Chute that will turn on the "Sold-Out" Light when it does not detect product.
Note: When the "Sold-Out" Light is lit, there will be no product remaining in the Product Chute.
- Q: The Compressor is running, but the vendor is too warm.
A: Turn the Adjustment Slot Counter (1/8" at a time) clockwise to adjust to a colder temperature.
Make sure that the air flow is not restricted, there should be 6" of clearance on left and rear sides.
Thermostat may not be working properly.
Check for an air leak in the door seal.
Compressor may be undercharged with R134a.
- Q: Why doesn't the Compressor cycle?
A: Thermostat may be set too cold. Turn the Adjustment Slot Counter (1/8" at a time) counter-clockwise to a warmer temperature.
Thermostat may not be working properly.
Compressor may be undercharged with R134a.
Compressor may be defective.
- Q: Why is my Evaporator freezing?
A: Check and make sure the Air Circulation Fan is working
- Q: After removing and reinstalling or replacing the control board the motor count is wrong and the motors will not run.
A: Insure the proper orientation of the motor and home switch harnesses when plugging them back onto the control board. See Figure 2.