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The Model and Serial numbers are needed for you to obtain quick service and parts information for your vendor. The numbers are given on the identification plate located on the back of the vendor. Write them into the spaces below for your records.

## MODEL NUMBER:

## SERIAL NUMBER:

## INTRODUCTION

```
If you have questions concerning the
    information in the manual,
replacement parts, or the operation of
    the vendor, note your machine's
    Model and Serial Numbers before
                    contacting:
                    VendNet \({ }^{\text {TM }}\)
            165 North 10th Street
        Waukee, Iowa 50263-USA
            Parts: (888) 259-9965
            Service: (800) 833-4411
            Parts Fax: 515-987-4447
            All Other: (888) 836-3638
    E-Mail: Vendnet@vendnetusa.com
```

This manual contains instructions, service and installation guidelines for the Combo Vendor. The Combo Vendor is designed as a combination snack and beverage merchandiser. The vendor is capable of dispensing a wide variety of snacks and beverages.
The Combo Vendor model is equipped with an electronic control system. All vending functions, pricing, and features are programmed through the controller. Changes can be made without any additional accessories or remote parts.

Selections can be priced individually from $\$ .05$ to $\$ 99.95$ in five cent increments (US currency).
Accountability mode records Total Cash transactions and Total Vend cycles performed by the vendor. Information for individual selections, complete rows or total vendor can be compiled and used for inventory and ordering records.
Control System malfunctions are recorded and displayed when the vendor is placed in Service Mode. Nonfunctioning motors or selections are indicated. Each selection has an individual motor. When one selection motor fails the other selections are unaffected and will continue working.

The vending sequence is "first-in, first-out" for each selection, eliminating the need for stock rotation to ensure product freshness.
Read this manual thoroughly. Become familiar with the vendor's components and features. The initial setup of a vendor is a very important step towards insuring that the equipment operates trouble-free. Carefully follow the instructions for the initial installation of the vendor to avoid service problems and minimize setup time.

Access to the service area of this vendor should be permitted only to individuals having knowledge and practical experience in vendor setup and loading, especially in areas of safety and hygiene.

## SPECIFICATIONS

## DIMENSIONS

| Width | 34.5 inches (876mm) | 34.5 inches ( 876 mm ) |
| :---: | :---: | :---: |
| Height | 72 inches (1829mm) | 72 inches (1829mm) |
| Depth | $295 / 8$ inches (752) mm | $295 / 8$ inches (752) mm |
| Weight / Shipping Weight | 551 lbs. (254kg) / $600 \mathrm{lbs} .(272 \mathrm{~kg}$ ) | 551 lbs. (254kg) / 600 lbs. (272kg) |
| Snack Window Size (tempered glass only) | 21 3/4" X 25 1/4" X 1/8" Thick ( 552 mm X 641 mm X 3mm) | 21 3/4" X 25 1/4" X 1/8" Thick ( 552 mm X $641 \mathrm{~mm} \times 3 \mathrm{~mm}$ ) |
| Live Display Window Size (tempered glass only) | 9 1/4" X 23 3/4" X 1/8" Thick (235mm X 603mm X 3mm) | N/A |

STANDARD SNACK TRAY CONFIGURATION (MAY VARY)

| See manual page | Page 5 | Page 6 |
| ---: | :---: | :---: |
| Trays | 3 | 2 |
| Total Selections | 21 | 14 |
| Snack Selections | 6 | 4 |
| Medium Snack Selections | 6 | 4 |
| Candy Selections | 9 | 6 |
| Standard Capacity (may vary) | 225 | 150 |

STANDARD BEVERAGE TRAY CONFIGURATION (MAY VARY)

| See manual page | Page 12 | page12 |
| ---: | :---: | :---: |
| Live Display Selections | 8 | 5 |
| Live Display Can Selections | 3 | 3 |
| Can Capacity | 130 | 130 |
| Live Display Bottle Selections | 5 | 2 |
| Bottle Capacity | 56 | 28 |
| Pre cool bottle can | $\mathrm{n} / \mathrm{a}$ | 16 Bottles 34 Cans |
| Total Beverage Capacity (may vary) | 186 | 208 |

## ELECTRICAL

| Voltage | 120 VAC | 240 VAC |
| ---: | :---: | :---: |
| Cycle | 60 Hz | 50 Hz |
| Amperage | $2.5 \mathrm{~A} / 300 \mathrm{~W}$ | $1.25 \mathrm{~A} / 300 \mathrm{~W}$ |
| Transformer | 120 VAC to 24 VAC | 240 VAC to 24 VAC |

coinage (NOTE: DOLLAR BILL VALIDATOR AND/OR CARD READER IS OPTIONAL)

| MDB Version | Industry Standard MDB |
| ---: | :---: |
| International | Coin Mechanisms, Bill Validators and Card Readers |
| Domestic | (OPTIONALLY EQUIPPED) |

VENDOR OPERATION

| Location | Suitable for indoor use only. This appliance is not suitable for <br> installation in an area where a water jet could be used. |
| ---: | ---: |
| Sound Level | Produces less than 70 dBA during normal operation. |
| Recommended <br> Operating <br> Temperature | Between $32^{\circ}$ and $100^{\circ} \mathrm{F}^{\circ}\left(0^{\circ}\right.$ and $37.8^{\circ}$ Celsius $)$ |

## VENDOR SET UP

## UNPACKING

This vendor was thoroughly inspected before leaving the factory and the delivering carrier has accepted responsibility for this vendor. Note any damage or irregularities at the time of delivery and report them to the carrier. Request a written inspection report from the claims inspector to file any claim for damage. File the claim with the carrier (not the manufacturer) within 15 days after receipt of the vendor.
Carefully remove the outside packing material being careful not to damage the vendor's finish or exterior. Inspect the vendor for concealed shipping damage. Report any damage hidden by the shipping material directly to the delivering carrier on a Hidden Damage Report.

NOTE: if the power supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified individual in order to avoid hazard.

## INSTALLATION

Position the vendor in its place of operation. Make sure to level the vendor by placing a bubble level on the top of the machine and adjusting the vendor leg levelers. Position the vendor so the power cord easily reaches the power outlet or receptacle (DO NOT USE AN EXTENSION CORD). Check that the door will open fully without interference.

NOTICE:
VENDOR MUST BE LEVEL AND THERE MUST BE A MINIMUM OF 4" BETWEEN BACK OF VENDOR AND THE WALL FOR PROPER AIR FLOW

Retrieve the vendor keys from the coin return cup. Open outer door and remove all internal packing material.

## GROUNDING (EARTHING) \& ELECTRICAL



Consult local, state, and federal codes and regulations before installing the vendor.
Refer to the Safety Installation Guidelines document found in the service package shipped with your vendor.
Before connecting the vendor, the integrity of the main electrical supply must be checked for correct polarity, presence of ground (earth) and correct voltage. These checks should be repeated at six-month intervals with the routine safety electrical testing of the vendor itself.
If the receptacle is not properly grounded or polarized, contact a licensed electrician to correctly polarize and/or ground the receptacle to ensure safe operation.
For proper operation of any equipment utilizing electronically controlled components, the equipment should be placed on an isolated, or dedicated, noise-free circuit properly polarized and grounded. Use of a surge suppressor is recommended for locations where electrical noise is present.

After all set up has been completed turn on the Power Switch (see Component Locations diagram later in manual).

## COMPONENT LOCATIONS

POWER SWITCH BACK OF CABINET (SEE FIG. 1 BELOW) TURN OFF POWER WHEN SERVICING VENDOR

SERVICE MODE BUTTON (SEE FIG. 3 BELOW)


BEVERAGE DOOR LATCHES (SEE FIG. 2 BELOW)

INSIDE VIEW - DOOR SHOWN OPEN 3 SNACK TRAYS


AIR INTAKE - UNDER CABINET - KEEP SCREEN CLEAN - CLEAN MONTHLY


## COMPONENT LOCATIONS



## REFRIGERATION OPERATION

The Vendor's refrigeration system will operate trouble-free for many years and with I It is critical that the machine be positioned with a minimum of a 4" space between thi the bottom screen and refrigeration compartment be kept clean. Clean/vacuum the $\leqslant$


NOTICE:

## THERE MUST BE A MINIMUM OF 4" BETWEEN BACK OF VENDOR AND THE WALL FOR PROPER AIR FLOW

## THERMOSTAT SETTING

The Vendor's thermostat is set at the factory and should not need to be adjusted. If the beverage compartment is too cold or too warm make slight adjustments and allow the interior temperature to stabilize for a minimum of 24 hours prior to making any further adjustments.
Rotating clockwise adjusts colder ... counterclockwise adjusts the temperature warmer.


NOTICE:
DO NOT MAKE LARGE ADJUSTMENTS AWAY FROM FACTORY SETTING AS THIS MAY RESULT IN A FREEZE UP OF THE EVAPORATOR COIL AND/OR BEVERAGES. PROLONGED FREEZE UPS WILL CAUSE THE REFRIGERATION TO OVERHEAT AND MAY CAUSE PERMANENT DAMAGE TO THE SYSTEM.

## LOADING SNACK PRODUCTS

Lift the tray up slightly and pull forward until the tray stops then tilt down for ease of loading.
Load product from front to back making sure all items fit freely between the spirals. Do not attempt to force oversized products or packages into the spaces. Do not skip a space. Place the product on the bottom of the compartment on the spirals with the labels facing the front of the vendor for easy identification by the customer.

To vend properly the product must be wider and taller than the diameter of the spiral being used. Undersized products may cause vend problems.

## SPIRAL AND TRAY ADJUSTMENT

The shape, size and thickness of a product affect how well it falls off the tray. Most products can be vended successfully when the spiral end is positioned at 6 o'clock. If vending problems occur with spiral ends at the standard 6 o'clock position, adjust the drop-off either by retiming the spiral or installing a Product Pusher.

## SPIRAL TIMING

Each spiral can be rotated in $45^{\circ}$ (degree) increments for a different drop-off point. Most products can be vended successfully when the spiral end is positioned at the position of 6 o'clock.
The general rule is:
The narrower the product, the higher the timing.

- Thick Products - 4-6 o'clock
- Most products - 6 o'clock
- Thin Products - 6-8 o'clock


To change the spiral end position:

1. Remove the tray to have access to the back of the motors.
2. Pinch the snap tabs of the spiral coupling and push out until it separates from the motor.
3. Rotate the spiral to the desired position and reinsert the spiral coupling into the motor.
4. Make sure the spiral coupling snaps fully into the motor as shown.
5. Replace the tray and test vend the selection to make sure product vends correctly.

> ADJUST SPIRAL END POSITION BY PINCHING SNAP TABS OF SPIRAL COUPLING ON BACK OF MOTOR - PULL OUT OF MOTOR THEN SNAP BACK INTO DESIRED POSITION


## PRODUCT PUSHERS

If the product still will not vend properly after re-timing of the spiral then install a Product Pusher. The Product Pushers are provided in the service package of the vendor. Snap onto spirals only as necessary as shown.


## LOADING BEVERAGE PRODUCTS

Push in on latches simultaneously on both sides of trays then pull forward until the tray stops to load.
Load product from front to back making sure all items fit freely between the spirals. Do not attempt to force oversized products into the spaces. Do not skip a space. Place the product on the bottom of the compartment on the spirals.
To vend properly the product must be wider and taller than the diameter of the spiral being used. Undersized products may cause vend problems.
Load bottle product cap down in bottle trays as shown. Can tray is for 120z. cans only.


TILTED BACK AS SHOWN


## LOADING COIN MECHANISM

The Coin Mechanism must be loaded with some level of each coin in order for the vendor to operate properly. The coins need to be loaded into the coin mechanism by insertion into the front coin insert. First enter the SERVICE MODE then TUBE FILL MODE (See SERVICE MODE instructions, pg.8). Make sure to load the correct coins into their correct tubes. Each tube should be kept loaded with at least one roll of each coin to keep above the tube low level sensors. Once the tubes are loaded to these levels the Dollar Bill Validator will accept bills. If the coin tubes fall below this level the Dollar Bill Validator may stop accepting bills and the front display will

light the "EXACT CHANGE ONLY" indicator LED.
Alternatively, you can load the coins into the slots above the respective coin tubes. This is not the preferred method. By using TUBE FILL mode the control board can then accurately determine coin levels.
On some Coin Mechanisms there are buttons above each tube to dispense the coins (may vary depending on which coin mechanism that is used). The coins can also be dispensed within the Service Mode described later.
More advanced and brand specific Coin Mechanism operating instructions can be obtained on the Service portion of the website listed at the beginning and end of this manual
 TO A MINIMUM LEVEL


## BILL VALIDATOR OPERATION (OPTIONAL)

To remove the bills from the Dollar Bill Validator push the tab on the top of the bill box and lift up. To clear jams or cleaning unlatch lower unit as shown. Dollar Bill Validator cleaning instructions as well as more advanced service information can be obtained on the Service portion of the website listed at the beginning and end of this manual.


## SALES MODE

The vendor automatically defaults to Sales Mode after it is turned on. In the Sales Mode, the vendor accepts money deposits, pays out change and dispenses product to the customer.

## DISPLAY CREDIT - ELECTRONIC PRICING

This vendor is equipped with the Electronic Pricing feature. The customer verifies the price by pressing the selection number (i.e. 22) before inserting money. If a selection is made and credit has not been established, the price for that selection is displayed and will flash. When money or credit is accepted, then the amount of credit is displayed.

## "USE EXACT CHANGE" LED OPERATION

If the coin levels in the coin mechanism tubes are below the low-level sensors, the indicator LED next to "USE EXACT CHANGE" will illuminate. This indicates the Coin Mechanism does not have enough coins in the coin mech tubes to make change. This also indicates that the Dollar Bill Validator may be disabled until change can be made.

## "MAKE ANOTHER SELECTION" LED OPERATION

If a selection is made that is not available (i.e. 79 is not a good selection) or if there is a selection motor failure the indicator LED next to "MAKE ANOTHER SELECTION" will illuminate. If this is a motor failure the controller will display which motor has failed upon entering the Service Mode (described later in this manual).

## VEND CYCLE

If a selection is made and the accumulated credit is greater than or equal to the price of the selection, then a vend attempt will take place. If credit is less than the selection price, the price is displayed and will flash.

## Operation

1. The control system verifies the selection exists. If the selection is not available or failed previously the cycle stops and the "MAKE ANOTHER SELECTION" indicator LED is illuminated. The control system stores this error that will be displayed in the SERVICE MODE of operation. If no error is detected the vend cycle continues.
2. The vend motor starts its rotation and a vend timer is started.
3. The selection motor rotates to the MOTOR HOME POSITION (as shown). The motor switch opens on the flat of motor cam

4. If the home switch signal is sensed, then the vend is considered successful. The amount of remaining credit is returned.
5. If there is no home switch signal detected and the vend timer has expired (approx. 10 seconds), then the vend is considered failed. The vend motor is then shut down and "MAKE ANOTHER SELECTION" indicator light is turned on. The customer can press selection buttons to make another selection or they can press the coin return button to receive their money back. A failed motor must be test vended in the Service Mode to clear the failure.

## Credit and Counters

## After a successful vend ...

- The total non-resettable vend count is incremented by one and the total non-resettable cash value is incremented by the price of the vended selection.
- The total resettable vend count is incremented by one and the resettable total cash value is incremented by the price of the vended selection.
- NOTE: Test vends are not included in the counter totals.


## CHANGE RETURN

If after inserting credit the customer desires their money back the coin return button needs to be pressed. Upon insertion of a dollar bill and a change request is desired the vendor will do one of two things depending upon the setting of the FORCE VEND and BILL ESCROW features (operation as described later in the Service Mode section of this manual).

Two modes of change return operation ...

- If the bill is inserted and FORCE VEND is set to OFF and BILL ESCROW is set to ON when the customer requests change they will receive their bill back from the Dollar Bill Validator.
- If the bill is inserted and FORCE VEND is set to OFF and BILL ECROW is set to OFF when the customer requests change they will receive coin change back ... the vendor can be used as a bill changer. Operating the vendor in this manner is fine except the vendor may run low on coins more often and thus not be able to accept bills and may result in lost sales.


## DEX CAPABILITY (OPTION)

This vendor has the option of DEX capability. DEX is an acronym for Direct EXchange. It is a vending industry communication standard which was originally created for the grocery industry. The option permits the operator to download with a handheld computer accounting data from the control board automatically. This data can then be used to accurately track cash accountability as well as evaluate the product marketing aspects within one vendor or many. The DEX option requires the purchase of extra harnessing, a handheld computer, and software to be used effectively. The data set which is defined includes, among others:

- Cash Count by selection
- Prices by selection
- Vend Count by selection
- Value of Coin in the Coin box
- Value of Bills in the bill validator


## The implementation of the DEX option may be beyond the needs of most operators but if more information is desired contact the service entity listed at the beginning and end of this manual

## BEVERAGE AREA OPERATION

The Beverage Area motors are combined in a preset fixed pattern corresponding to the visible Live Display selections.
Notice that Selection 40 is actually tied to two motors in the Top Can Tray ... Selection 42 is tied to the next two motors ... Selection 44 is tied to the fifth motor in that tray. In the same manner, Selection 50 is tied to the first four motors in the Middle Bottle Tray ... Selection 54 is then tied to motors 5-7 on that tray and so on.
The Control System will rotate through the tied motors within a selection. For example: when a customer selects Selection 50 the Control System will remember which motor was last vended and vend the next motor in that sequence. By vending in sequence this ensures a first-in / first-out rotation of product.
This combining of motor columns (Space-to-Sales) in varying quantities creates different capacities for each Selection. This combining of motors to selections is fixed and provides the following capacities by Selection:

| selection | $\begin{gathered} 1 \text { can tray } \\ 2 \text { bottle trays } \end{gathered}$ | 1 can tray <br> 1 bottle tray <br> 1 Pre cool tray | Totals |
| :---: | :---: | :---: | :---: |
| 40 | 52 (12oz. Cans) | 52 (12oz. Cans) | Total 12 oz. Can Capacity = |
| 42 | 52 (12oz. Cans) | 52 (120z. Cans) |  |
| 44 | 26 (12oz. Cans) | 26 (12oz. Cans) |  |
| 50 | 16 (24 oz. max.) | 16 (24 oz. max.) | Total Bottle (or Cans) Capacity $=$ |
| 54 | 12 (24 oz. max.) | 12 (24 oz. max.) |  |
| 60 | 12 (20 oz. max.) | PRE COOL 16 BOTTLES OR 34 CANS |  |
| 63 | 8 (20 oz. max.) |  |  |
| 65 | 8 (20 oz. max.) |  |  |
| Total | 186 | 208 |  |

## SOLD OUT VEND SEQUENCE

If a selection is made and the accumulated credit is greater than or equal to the price of the selection, then a vend attempt will take place. If credit is less than the selection price, the price is displayed and will flash.
The beverage area is equipped with a Vend Sensing system.
Upon selection of a beverage selection the control system determines whether there is product available to vend. When a vend

THE SELECTIONS INSIDE THE MACHINE ARE LINKED TO THE 8 OR 5 DISPLAYED SELECTIONS IN THE OUTER DOOR DISPLAY ... AS SHOWN BELOW


MIDDLE TRAY - CANS OR BOTTLES (up to 24 oz .)
 request is made the Control System monitors whether a beverage product impacts the SOLDOUT SENSOR BRACKET. The SOLDOUT SENSING BRACKET is attached to a switch that opens when an impact occurs. This is a successful vend attempt and the normal vend cycle follows.
If the Control System does not sense an impact to the SOLDOUT SENSING BRACKET then the Control System will attempt to rotate that selection motor one additional time. If a product impact is sensed at this time then this is considered a successful vend and the normal vend cycle follows. If upon this second attempt no product impact is sensed then that motor is flagged as SOLD OUT. The Control System will then attempt to vend the next motor tied to that selection using the same two-rotation process. If a product impact is not sensed it then
 moves on to the next motor tied to that selection. It will continue this process until it has attempted a two-rotation process for each motor tied to that selection. If all attempts fail then the entire selection will be flagged as SOLD OUT and the "MAKE ANOTHER SELECTION" indicator LED is illuminated. The Control System will not attempt to vend any motor after is it flagged as SOLD OUT until the motors are reset to not SOLD OUT. The Control System will monitor the

Door Switch located on the inside of the main outer door. Once the main outer door is opened the switch will open and the Control System will assume all beverages have been loaded and reset the flagged motors to active (not SOLD OUT).
Vend and Cash counters only will increment on successfully vended product. If the customer fails to receive their beverage they have the option of vending another product or receiving their money back (change).


## SERVICE MODE

The Service Mode is used to access the programming features of the controller: Set Price, Test Vend, Retrieve Accounting Information, or Set Custom Program Settings. If credit exists when entering the Service Mode, it will be restored when the vendor is returned to Sales Mode.

## SERVICE MODE BUTTON

The Service Mode Button is located near the top right corner of the control board. Press the button to access the Service Mode programming features. Press the button again to exit and return to Sales Mode. If no keypad button is pressed within 60 seconds while in Service Mode, the controller automatically exits to the Sales Mode.

## DISPLAY



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

## KEYPAD OPERATION

> In Service Mode buttons © thru © 9 are used to access the various modes, menus and sub-menus as well as entering price values
> The asterisk/star button ${ }^{\star}$ is used to escape or back up within menus. Pressing the asterisk/star button $\star$ repeatedly will back out of the Service Mode into the Sales Mode of operation.
> The pound/number symbol \# button is used to enter a menu, confirm or save a setting.


## PROGRAMMING

Press the Service Mode Button; check the display for instructions or choices while using the keypad.
(1) PRESS 1 - TUBE FILL AND DISPENSE COINS MODES

Tube Fill Mode counts coins as they are deposited and shows the deposited amount. This permits the control system to accurately track coin tub e inventories

Dispense Coins Mode pays out coins from the coin mech coin tubes.
This mode will also display the current quantity of coins in the coin mech tubes.

| STEP |  | DISPLAY |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press 1 and begin depositing coins | Totalized amount of entered coins |
| 3. | Press * repeatedly to exit. | (Sales Mode) |

DISPENSE COINS MODE

${ }^{* *}$ Note: For dispensing of coins on coin mechanisms with more than 3 tubes use keys greater in the same sequence as shown above.**

PRESS 2 - MOTOR COUNT MODE

|  | STEP |  | DISPLAY |
| :--- | :--- | :--- | :---: |
| Motor Count Mode <br> displays the total <br> quantity of working <br> motors. | 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
|  | 2. | Press $\boldsymbol{2}^{2}$ then wait ... counts available motors | 40 (Motor Count is displayed) |
|  | 3. | Press $*$ to exit. | (Sales Mode) |
|  |  |  |  |

## (3) OPTIONS MENU

This menu allows access to the following features:

## FORCE VEND

BILL ESCROW
multi Vend
free vend
FAST CHANGE (not applicable in this model)

OPTIC OPTION
POS MESSAGE (not applicable in this model)
TEMPERATURE (not applicable in this model)
KEYPAD BACKLIGHT (not applicable in this model)
DROP SENSOR SENSITIVITY (not applicable in this model)
(3) and (1)

## PRESS 3 THEN 1 - FORCE VEND OPTION

By pressing (3) then (1) this alternates between FORCE VEND ON (displayed as FrCY) or FORCE VEND OFF (displayed as Frcn).
This option will force the customer to complete a purchase once they have deposited money of any form.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button ${ }^{\text {( }}$ | 40 (Motor Count is displayed) |
| 2. | Press (3) | OPtn |
| 3. | then Press $\qquad$ .. repeat to toggle mode ON/OFF | FrcY or Frcn (default is FrCN ) |
| 4. | Press \# to save setting. | FrcY or Frcn (last displayed setting) |
| 3. | repeatedly to exit. | (Sales Mode) |

## (3) and (2)

## PRESS 3 THEN 2 - BILL ESCROW OPTION

By pressing (3) then 2 this alternates between BILL ESCROW ON (displayed as ESCY) or BILL ESCROW OFF (displayed as ESCn).

| This option allows the last bill accepted to be returned, provided the bill acceptor is capable of such a feature. |  | STEP | DISPLAY |
| :---: | :---: | :---: | :---: |
|  | 1. | Press Service Mode Button ${ }^{\text {( })}$ | 40 (Motor Count is displayed) |
|  | 2. | Press (3) | OPtn |
|  | 3. |  | $\begin{aligned} & \text { ESCY or ESCn } \\ & \text { (default is ESCY) } \end{aligned}$ |
|  | 4. | Press \# to save setting. | ESCY or ESCn (last displayed setting) |
|  | 3. |  | (Sales Mode) |

- NOTE: If you want the vendor to be used as a dollar bill changer (customer inserts bill then presses the asterisk/star * button to receive coin change for bill) then set FORCE VEND to OFF (Frcn) and BILL ESCROW to OFF (ESCn). Operating the vendor in this manner is fine except the vendor may run low on coins more often and thus not be able to accept bills and may result in lost sales.


## PRESS 3 THEN 3 - MULTI VEND OPTION

By pressing (3) then this alternates between MULTI VEND ON (displayed as NULY) or MULTI VEND OFF (displayed as NULn).
This option allows the customer to purchase more than one product if enough credit has been deposited. When this option is active, any credit remaining after a vend attempt is not automatically returned. At this point, the customer has the option of:

- Making another selection if there's enough credit OR
- Depositing more money OR
- Press the asterisk/star * button to receive remaining credit.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button ${ }^{\text {( }}$ | 40 (Motor Count is displayed) |
| 2. | Press (3) | OPtn |
| 3. | then Press (3)... repeat to toggle mode ON/OFF | NULY or NULn (default is NULn) |
| 4. | Press \# to save setting. | NULY or NULn (last displayed setting) |
| 3. |  | (Sales Mode) |

## - NOTE: After 5 minutes any credit that is left on the display will disappear

## (3) AND (4)

## PRESS 3 THEN 4 - FREE VEND OPTION

By pressing (3) then (4) this alternates between FREE VEND ON (displayed as FrEY) or FREE VEND OFF (displayed as FrEn).

This option makes all products available at no cost. No money is accepted by the vendor. The message "FREE" is displayed. This does not change the set prices. Once FREE VEND is set to OFF the selection prices revert back to the price set amounts.

| STEP | DISPLAY |  |
| :---: | :--- | :---: |
| 1. | Press Service Mode Button © | 40 (Motor Count is displayed) |
| 2. | Press (3) | OPtn |
| 3. | then Press 4... repeat to toggle mode ON/OFF | FrEY or FrEn <br> (default is FrEn) |
| 4. | Press \# to save setting. | FrEY or FrEn (last displayed setting) |
| 3. | Press * repeatedly to exit. | (Sales Mode) |

## (3) <br> AND (6)

## PRESS 3 THEN 6-OPTICS OPTION

By pressing (3) then (6) this alternates between OPTICS ON (displayed as oPtY) or OPTICS OFF (displayed as oPtn).
This option must be set to oPtY for this model. This along with the Space-to-Sales setting turns on the vend sensor for the beverage selections. There is no vend sensor for the snack selections.

| STEP | DISPLAY |  |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button © | 40 (Motor Count is displayed) |
| 2. | Press (3) | OPtn |
| 3. | then Press © $\ldots$... repeat to toggle mode ON/OFF | oPtY or oPtn <br> (Must be set to oPtY) |
| 4. | Press \# to save setting. | Make sure displays oPtY |
| 3. | Press * repeatedly to exit. | (Sales Mode) |

## (3) AND © © , AS WELL AS (3) AND © T THRU © ( ALL OTHER OPTIONS) WITHIN (MODE 3) ARE NOT APPLICABLE TO THIS MODEL

## (4) PRESS 4 - VENDOR CONFIGURATION MENU

This menu allows access to the following features:

ITEM (can/bottle) - (not applicable in this model)
ROW (snack/can/botile) - (not applicable in this model)
ALL (snack/can/bottle)

SPACE-TO-SALES (STS)
ADVANCED CONFIGURATION - (not applicable in this model)

NOTE: This model requires that the entire vendor be set to SNACK ... to reset this back to factory setting:
(4) AND (3).

## PRESS 4 THEN 3 - VENDOR CONFIGURATION

By pressing (4) then repeatedly this sets vendor configuration ... must be set on SnAc

This sets the operating mode of the vendor.

This model should always be set to a SNACK configuration (SnAc).

| STEP |  | DISPLAY |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button © | 40 (Motor Count is displayed) |
| 2. | Press 4 | Cbs |
| 3. | then Press 3 until displays SnAc | ALL ... SnAc |
| 4. | Press \# to save setting. | Make sure displays SnAc |
| 3. | Press $\#$ repeatedly to exit. | (Sales Mode) |

## (4) AND (6).

## PRESS 4 THEN 6 - VENDOR SPACE-TO-SALES

By pressing (4) then (6) repeatedly this sets vendor space-to-sales ... must be set on STSF

| This sets the Space-to-Sales mode of the vendor. |  | STEP | DISPLAY |
| :---: | :---: | :---: | :---: |
|  | 1. | Press Service Mode Button ( | 40 (Motor Count is displayed) |
|  | 2. | Press 4 | Cbs |
| This model should always be set to a STSF configuration. | 3. | then Press (6) until displays STSF | STSF |
|  | 4. | Press \# to save setting. | Make sure displays STSF |
|  | 3. | Press repeatedly to exit. | (Sales Mode) |

## (5) PRESS 5 - PRICING

(The maximum price that can be set is $\$ 99.95$ )

- ITEM - set price by individual selections
- ROW - set price by tray
- ALL ITEMS - set price by entire vendor.
- COUPONS - set coupon value by Item, Row, or ALL
- TOKENS - set token value by Item, Row, or ALL


## PRESS 5 THEN 3 - PRICE ALL SELECTIONS

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

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

| STEP |  | DISPLAY |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button $\subset$ ) | 40 (Motor Count is displayed) |
| 2. | Press 5 | Prc |
| 3. | Press 3 | ALL |
| 4. | Enter price (i.e. $50=.50$ ) | 0.50 |
| 4. | Press \# to save. | 0.50 |
| 5. | Press $*$ repeatedly to exit. | (Sales Mode) |

## (5) AND ${ }^{2}$.

## PRESS 5 THEN 2 - PRICE BY ROW / TRAY

Use this menu to set the price of a tray/row all at the same time.

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

| STEP |  | DISPLAY |
| :---: | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press 5 | Prc |
| 3. | Press 2 | ro - |
| 4. | Enter tray/row number and price <br> Example: Top row=1, <br> row below top row=2, etc. <br> Program will then request input of the next Row. | ro 01 0.50 |
| 5. | Press \# to save. | ro 01 0.50 |
| 6. | Press * repeatedly to exit. | (Sales Mode) |

## PRESS 5 THEN 1 - PRICE BY SELECTION

This menu allows price setting by each selection.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press 5 | Prc |
| 3. | $\text { Press } 1$ | (prompted to enter selection) |
| 4. | Enter selection and price | 100.50 |
| 5. | Press \# to save. The program will then request input of the next selection number and you can continue to enter prices. Each time Press \# to save. | Item 110.50 |
| 6. |  | (Sales Mode) |

and ${ }^{4}$.

## PRESS 5 THEN 4 - SET COUPON VALUE

This mode allows the operator to designate the values of "free vend" coupons that the bill validator has been programmed to accept. The control board can have 5 different coupons each having a different value. After one coupon is accepted, further coupons will not be accepted until a successful vend has taken place.

NOTE:
This option requires a coupon programmed bill validator. The coupons are special order. The specially programmed bill validator and special coupons can be purchased from the parts entity listed at the beginning and end of this manual.

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

| STEP |  | DISPLAY |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press 5 | Prc |
| 3. | Press 4 | CPn |
| 4. | Press 1 for Coupon 1... the set value is shown | CPn1 0.00 |
| 5. | Enter desired Coupon1 Value ... setting to 0.00 will set Coupon Value one Free <br> Vend | 1.50 |
| 6. | Press \# to save. | 1.50 |
| 7. | Press <br> to Sales Mode. |  |

## (5) AND (5).

## PRESS 5 THEN 5 - SET TOKEN VALUE

This mode allows the operator to designate the values of "free vend" tokens.. The control board can have 5 different tokens each having a different value.

## NOTE:

This option requires a specially tuned coin mechanism. The tokens are special order. The specially tuned coin mechanism and special tokens can be purchased from the parts entity listed at the beginning and end of this manual.

If no token value is set, tokens will be shown as free vends.

| STEP | DISPLAY |  |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press 5 | Prc |
| 3. | Press 5 | thn |
| 4. | Press 1 for Token $1 \ldots$ the set value is shown | thn1 0.00 |
| 5. | Enter desired Token1 Value $\ldots$ setting to 0.00 will set Token Value one Free Vend | 1.50 |
| 6. | Press \# to save. | 1.50 |
| 7. | Press <br> Sales Mode. |  |

## (6) PRESS 6 - ACCOUNTING MODE

- This mode accesses the submenus that displays or resets data for various types of cash and vend totals. Counts can be viewed by individual items, rows or as the whole vendor. The counter s rollover at 999,999 vends and \$999,9999.99 sales.
- Historical Totals: These are the counts since the initialization of the vendor. They cannot be reset.
- Resettable Totals: These are totals since the last reset. These can be reset at any time. You have the option to reset just an item, row or the whole vendor.
- Note: Clearing counts only clears the resettable counters. Clearing by item and row will only clear the item or row entered.

Description of counters:

- Historical Vend Count: Total number of vends ever
- Historical Cash Count: Total cash value ever sold
- Resettable Vend Count: Total number of vends since counters were last reset/cleared
- Resettable Cash Count: Total cash value since counters were last reset/cleared

AND (3) - ACCOUNTING TOTALS FOR ALL SELECTIONS - ENTIRE VENDOR
This menu displays the total sales values and total vend count for the entire vendor.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button ${ }^{\text {( }}$ | 40 (Motor Count is displayed) |
| 2. | Press (6) then press ... | Acct |
| 3. | Press (3) | All ... 28 (example) |
| 4. | Press (1) - Historical Vend Count | 28 (example) |
| 5. | Press (2) - Historical Cash Count | 21.00 (example) |
| 6. | Press (3) - Resettable Vend Count | 14 (example) |
| 7. | Press (4)-Resettable Cash Count | 10.50 (example) |
| 12. | Press 5 to clear counters for all selections then | Clr ? |
| 13. | Press <br> again to confirm clearing of counters for all selections | Clrd |
| 14. |  | (Sales Mode) |

## (6) AND 2- ACCOUNTING TOTALS FOR A ROW/TRAY

This menu displays the total sales values and total vend count for a row/tray in the vendor.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is displayed) |
| 2. | Press (6) then press ... | Acct |
| 3. | Press (2) then enter row/tray number | ro $1 . . .14$ (example) |
| 4. | Press (1) - Historical Vend Count | 14 (example) |
| 5. | Press (2) - Historical Cash Count | 10.50 (example) |
| 6. | Press (3) - Resettable Vend Count | 7 (example) |
| 7. | Press ${ }^{(4)}$ - Resettable Cash Count | 5.25 (example) |
| 12. | Press 5 to clear counters for all selections then | Clr ? |
| 13. | Press 5. again to confirm clearing of counters for all selections | Clrd |
| 14. |  | (Sales Mode) |

## (6) (1) - ACCOUNTING TOTALS FOR A SELECTION

This menu displays the total sales value and total vend count for an individual selection.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button ${ }^{\text {( }}$ | 40 (Motor Count is displayed) |
| 2. | Press (6) then press ... | Acct |
| 3. | Press 1 then enter selection number (i.e. 22) | -- ... 22 (example) |
| 4. | Press (1) - Historical Vend Count | 10 (example) |
| 5. | Press ${ }^{(2)}$ - Historical Cash Count | 8.50 (example) |
| 6. | Press (3) - Resettable Vend Count | 4 (example) |
| 7. | Press (4) - Resettable Cash Count | 3.00 (example) |
| 12. | Press 5 to clear counters for all selections then | Clr ? |
| 13. | Press 5 again to confirm clearing of counters for all selections | Clrd |
| 14. |  | (Sales Mode) |

## (7) <br> PRESS 7 (NOT APPLICABLE IN THIS MODEL)

## (8) PRESS 8 - TEST VEND SELECTION MODE

Use this menu to test vend individual selection motors. The selection will display during the test vend. If a test vend fails the indicator LED next to the "MAKE ANOTHER SELECTION" will illuminate.

NOTE: Test vends are not included in the ACCOUNTING MODE counter totals.

| STEP |  | DISPLAY |
| :---: | :---: | :---: |
| 1. | Press Service Mode Button $\odot$ | 40 (Motor Count is displayed) |
| 2. | Press 8 | -- |
| 3. | Press selection number on keypad and wait | 10 |
| 4. | Repeat step 3 for other selections. |  |
| 5. | Press * | repeatedly to exit to Sales Mode. |

## (9) PRESS 9 - TEST VEND ALL SELECTIONS MODE

This menu will test vend all selection motors. Each selection will display as it vends. If a test vend attempt on a particular motor fails, then the indicator LED next to the "MAKE ANOTHER SELECTION" will illuminate.
NOTE: By entering this mode each selection motor will turn ... any product loaded will be vended ... if the door is open, be prepared to catch product as it is vended.

## NOTE:

## Pressing * at any time will

 stop the test. If a selection motor does not stop at home test that individual selection to return it to the home position| STEP |  | DISPLAY |
| :---: | :--- | :---: |
| 1. | Press Service Mode Button $\bigcirc$ | 40 (Motor Count is <br> displayed) |
| 2. | Press 9 and wait. | 10 |
|  | The motor selection number will display while it is <br> being tested. | 40 |
| 3. | Press * to stop the test | (Sales Mode) |
| 4. | Press $*$ repeatedly to exit to Sales Mode. |  |

## PRESS 0 - DIAGNOSTICS MODE



AND (1) - VENDOR SELF-DIAGNOSTIC TEST

This menu is used to perform a vendor selfdiagnostics test. Monitor the display for possible error messages. Record errors as they are displayed.


| Possible Error Codes |  |  |
| :---: | :---: | :---: |
| Displayed Error | Description | Possible Remedy |
| E\#\# or ESc oPEn (displayed when entering Service Mode) | Selection Motor Diagnostic \#\# = motor that has failed or ESc oPEn - Coin Return Motor failed | Check motor connection, test vend motor |
| CtI | Control Board input Error Good or SI (keypad stuck) | Keypad stuck error: check keypad connection, test all buttons, replace keypad |
| ChSu | Control board checksum error Good or Fail | Upon Fail turn power off ... wait 30 seconds and turn power back on ... continues to Fail - replace control board |
| Cn | Coin Mechanism Diagnostic Good or <br> Chg3 (communication error) | turn power off ... check coin mechanism connection ... wait 30 seconds and turn power back on ... continues to display Chg3 - replace coin mechanism |
| biLL <br> (when installed option) | Bill Validator Diagnostic <br> Good or <br> Bil7 (communication error) | turn power off ... check bill validator connection ... wait 30 seconds and turn power back on ... continues to display Bil7 - replace bill validator |
| rdr1 <br> (when installed option) | Card Reader Diagnostic <br> Good or rdr8 (communication error) | turn power off ... check card reader connection ... wait 30 seconds and turn power back on ... continues to display rdr8 - replace card reader |

For additional trouble shooting assistance contact the service entity listed at the beginning and end of this manual.
(0) AND ${ }^{2}$ - TEST RELAY (NOT APPLICABLE IN THIS MODEL)
(0) AND 3. CONTROL BOARD LOG (ENGINEERING DIAGNOSTIC MENU - TECHNICIAN ONLY!)
(0)

AND (4) - COIN REJECT RATE
This mode tracks the percentage of coins that have been rejected by the coin mechanism. This will be reset when ALL counters are reset in the ACCOUNTING MODE. A high reading (> 10\%) may indicate an unclean or damaged coin mechanism.

| STEP |  | DISPLAY |
| :--- | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is <br> displayed) |
| 2. | Press 0 | Diag |
| 3. | Press 4 to view reject percentage | CrJ |
| 4. | Press $\star$ repeatedly to exit to Sales Mode. | (Sales Mode) |

(0) AND (5)- BILL REJECT RATE

This mode tracks the percentage of bills that have been rejected by the bill validator. This will be reset when ALL counters are reset in the ACCOUNTING MODE. A high reading (> $15 \%$ ) may indicate an unclean or damaged bill validator.

| STEP |  | DISPLAY |
| :---: | :--- | :---: |
| 1. | Press Service Mode Button | 40 (Motor Count is <br> displayed) |
| 2. | Press 0 | Diag |
| 3. | Press $\leqslant$ to view reject percentage | brJ |
| 4. | Press $\star$ repeatedly to exit to Sales Mode. | (Sales Mode) |

## ALL OTHER OPTIONS WITHIN (MODE 0) ARE NOT APPLICABLE TO THIS MODEL

## PREVENTATIVE MAINTENANCE

CAUTION: ALWAYS DISCONNECT POWER SOURCE BEFORE CLEANING OR SERVICING
WARNING: THIS VENDOR MUST NOT BE CLEANED WITH A WATER JET.
ONCE A MONTH

- Clean Screen under cabinet
- Keep refrigeration compartment free of dust, lint, and debris
- Clean cabinet interior
- Wash with a mild detergent and water, rinse and dry thoroughly.
- Odors may be eliminated by including baking soda or ammonia in the cleaning solution.
- Plastic parts may be cleaned with a quality plastic cleaner.
- The vend mechanism must be kept clean. Any build-up can cause the mechanisms to malfunction.
- Do not get the cleaning solution on electrical components.
- To insure proper vending keep delivery slide area free of dirt and sticky substances.
- Clean Cabinet Exterior
- Wash with a mild detergent and water, rinse and dry thoroughly.
- Clean occasionally with a quality car wax or cleaner.


## PARTS ORDERING PROCEDURE

When ordering parts, include the following:

- Model and serial number of the vendor
- Shipping address
- Address where the invoice should be sent
- Quantity of parts ordered
- Any special shipping instructions
- Desired carrier: air or air special, truck, parcel post, or rail.
- $\quad$ Signature and ordering date.
- If a purchase order is used, be sure is it visible and legible

Please be sure that you refer to the correct part number, vendor model number, and vendor serial number when ordering. These can be confirmed by checking the parts manual found. Further information can be obtained on the Service portion of the website listed at the beginning and end of this manual.

NOTE: "Left" or "Right" when used in the name or description of the part are determined while facing the front of the vending vendor with the door closed.

## BEFORE CALLING FOR SERVICE

Please check the following:

- If the power is turned on at the fuse box, is the vendor the only thing that does not work?
- Is the vendor plugged directly into the outlet?
- Is the circuit breaker at the fuse box reset?


## WARNING: Do not use extension cords!

NOTE: Please have your Model and Serial Number available when you call.

## VENDOR SCHEMATIC DIAGRAM



If you have questions concerning the information in the manual,
replacement parts, or the operation of
the vendor, note your machine's
Model and Serial Numbers before contacting:
VendNet ${ }^{\text {TM }}$ 165 North 10th Street Waukee, Iowa 50263-USA Parts: (888) 259-9965 Service: (800) 833-4411 Parts Fax: 515-987-4447 All Other: (888) 836-3638
E-Mail: Vendnet@vendnetusa.com

