

Distributor Training Manual



Model Number: RC800/850



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Please note the “Serial numbers” of your vending machine in the space below:

Serial numbers_____

The serial numbers are located on the back of the vending machines on the identification plate. The serial number is necessary to provide quick service and detailed parts information for your vending machine.

1 – INTRODUCTION

Congratulations on the purchase of your new vending machine. In this manual you will find information on how to setup, install, operate, and maintain your vending machine.

Specifications:

RC-800: (Top Portion – Snack and Electronic Control Unit)

- Weight: 187 lbs
- Electronics: 110 – 120V – 60Hz – 1A
- Dimensions: 32.2”H × 30.7”W × 29”D
- Snack Capacity: 200 items
- Selections: 20 snack selection rows

RC-850: (Bottom Portion – Beverage Dispenser Unit)

- Weight: 312 lbs
- Electronics: 110 – 120V – 60Hz – 2.5A
- Dimensions: 43.6”H × 30.7”W × 29”D
- Drink Capacity: Up to 177 cans/bottles
- Selections: 6 beverage columns
- Refrigeration: R134A CFC-Free
- Operation Temperature in degrees: 32F to 90F (**indoor use only**)
- Manufactured with UL certified components

The entire package includes:

RC-800:

1. RC-800 snack vending machine.
2. Operational service manual (*April 2009, Revision C*).
3. Keys:
 - a. The first key is used for the “front door”, 4 keys are provided (*standard key*).
 - b. The second key is used for the “electronic control unit”, 2 keys are provided (*standard key*).
 - c. The third key is used for the “back door”, 2 keys are provided (*standard key*).
(*The back door allows easy access to the motors for the snack machine*).
4. Price tag set for display.
5. Combination screw M5x12 (*4 screws*).
6. #5 large washer (*4 pcs*).
7. Packing list.

RC-850:

1. RC-850 drink dispensing machine.
2. Front door key (*standard type, interchangeable with that used for SNACK UNIT front door*).
3. Price tag set for display.
4. Small spacers for D4 (*2 spacers*).
5. Large spacers for D5 / D6 (*4 spacers*).
6. Cable guard (*one*).
7. Packing list.

RC800/850 Features and Facts Sheet:

Your RC800/850 Vending Machine has the following features:

1. “Fill it and Go” operation allows the operator to refill the machine and not have to open the Electronic Control Panel / Cash Box area. Great for operators who employ people to refill their machines but don’t want them to have access to the cash.
2. The vending machine does **not** automatically give a customer change after an item vends. It shows the customer their credit and asks them if they would like to “BUY MORE – YES or NO?” allowing the customer to enter more money and buy another snack or a drink. If they choose to not buy another item, they simply press the NO button and their proper change is given.
3. The vending machine is preset to **not** allow a customer to put money in the machine, decide not to vend something, and then get their money back. You can reset the machine to allow for this type of transaction to occur, but we recommend you leave the factory preset alone. That way, your machine does not become a change machine for someone looking to get change for a dollar or a \$5 bill.
4. The vending machine has been set up to de-activate the dollar bill acceptor if the coin mechanism (coin mech) does not have a minimum of \$5.00 worth of coins stored in it. Customers can still vend, but only using coins. When the minimum threshold of \$5.00 is reached by customers inputting coins to vend, then the bill acceptor will turn back on automatically.
5. Easy empty feature on the coin mechanism. When in service mode for the Coin Mech, to empty a quarter one at a time, press A. To empty the entire tube of quarters, press 3. To empty one dime at a time, press B. To empty the entire tube of dimes, press 6. To empty one nickel at a time, press C. To empty the entire tube of nickels, press 9.
6. No need to keep track of BIN quantity settings to get a “Sold Out” message on the LCD. However, if you wish to manage your BIN quantities, activate them via the SET ABCD Qty submenu under SETUP>CONTROLLER. Once turned on, simply go to MANAGE>Review BIN Qty and update your settings. Easy full quantity reset is available under SALES>RESET BIN QTY?
7. Easy access to vending machine sales activity. When entering “Service Mode”, the first sub menu is SALES. Press ENTER and navigate through the SHOW TOTAL CASH, SHOW TOTAL SALES, and SHOW TOTAL VENDS. Keep track of your sales and profits!

2 – INSTALLATION

2.1 - Components of the machines

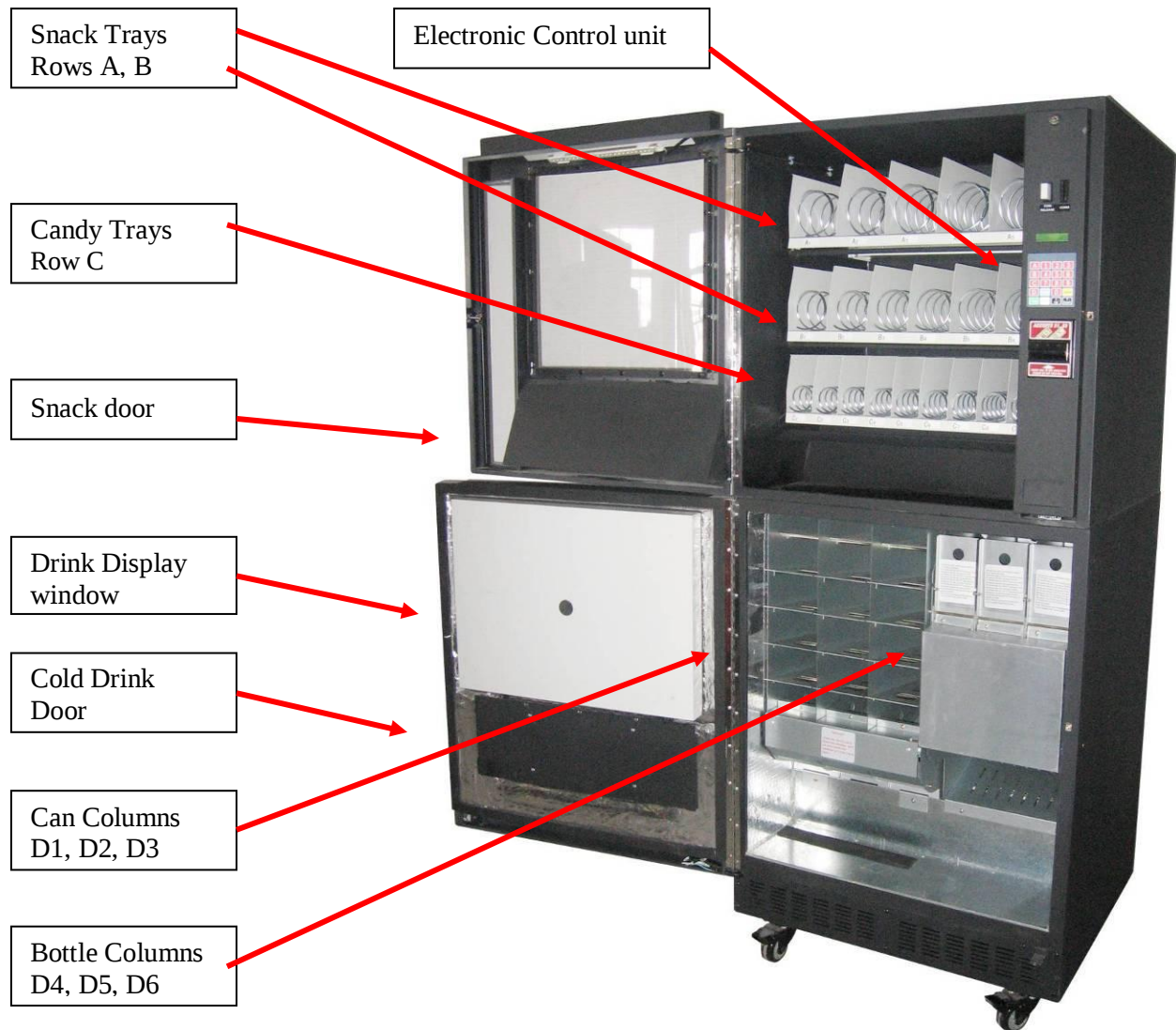


Figure 1 - Components of the vending machine

2.2 - Unloading the vending machines

NOTE: Units are HEAVY and BULKY. Use EXTREME CAUTION

You must have two persons to perform the unloading and installation process.

2.2.1 - For SNACK UNIT:

1. Remove the cardboard shipping box from the vending machine (do not use razor).
2. Reach into the snack section via the black door that says “Push” and remove the bag of keys.
3. Unlock the main door and remove all plastic sleeves wrapped on the snack coils.

2.2.2 - For DRINK UNIT:

1. Remove the cardboard shipping box from the vending machine (do not use razor).
2. Using a screwdriver or power tool, remove Phillips head screws securing 2 long metal plates on both sides of the wooden skid (*Figure 2*) and the four angled brackets (*Figure 3*).
3. With one person holding on the left side, the other person should tilt the machine upward from the right side. When the vending machine is tilted sufficiently upward, remove the right side wood skid by pulling firmly on the skid (*Figure 4*).
4. Gently lower the machine, it will sit on its own wheels. With one person holding the right side, the other person should tilt the machine upward from the left side. When the vending machine is tilted sufficiently upward, remove the left side wood skid by pulling firmly on the skid (*Figure 5*).
5. Gently lower the machine onto its wheels (*Figure 6*).
6. Reach into the beverage section via the black door that says “Push” and remove the bag of keys and the white plastic bags that contain the spacers for D4, D5 and D6.



Figure 2 – Remove metal plates

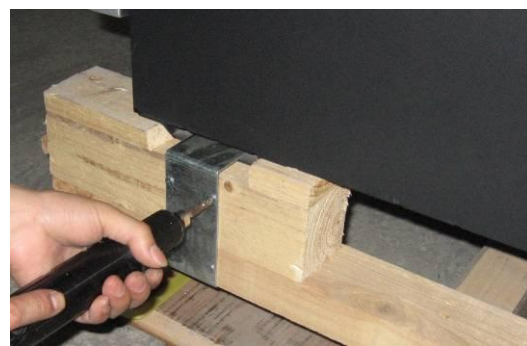


Figure 3– Remove metal plates



Figure 4 – Tilt upward and remove skid



Figure 5 –Tilt upward and remove skid



Figure 6 – Gently lower machine

2.3 - Installation

1. Using **two or more people**, lift and carefully place the SNACK UNIT on top of the DRINK UNIT and ensure the screw holes are aligned with each other.
2. Open the front and rear doors on the SNACK UNIT, and connect both units together with the 4 combination screws and large washers provided (*figure 7*).
3. Remove the plate that covers the wire guide hole on the back of SNACK UNIT (*figure 8*).
4. Insert the control wire harnesses of the DRINK UNIT into the SNACK UNIT via the wire guide hole and **connect them to the correct terminal board connectors (and small black power supply cable) in SNACK UNIT** (*figure 9, 10, 11*).

Note: Wires must be fed through the hole on the back of the machine and up and over to a hole provided to access the main control board in the back of the machine.

5. Secure the control wire harness of DRINK UNIT to the SNACK UNIT with the screw clip and cover the assembly with the cable guard (*figure 12, 13*).

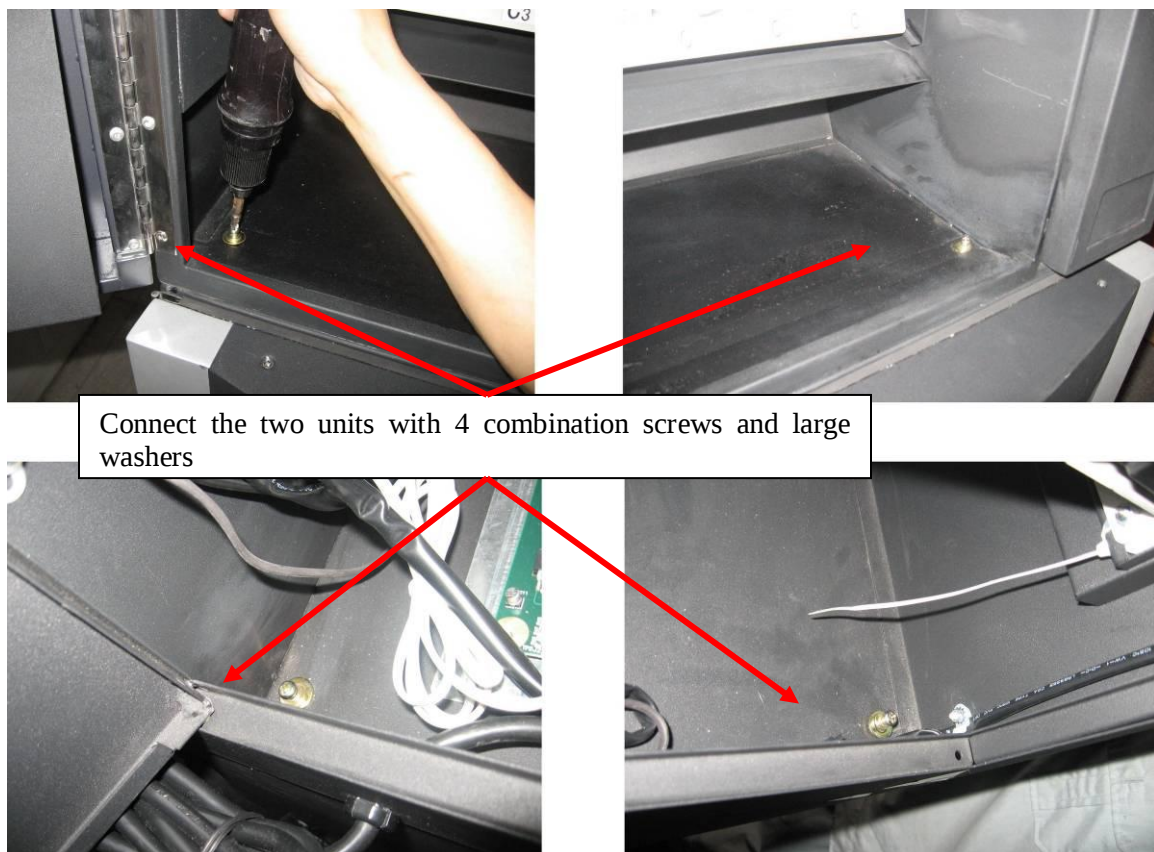


Figure 7

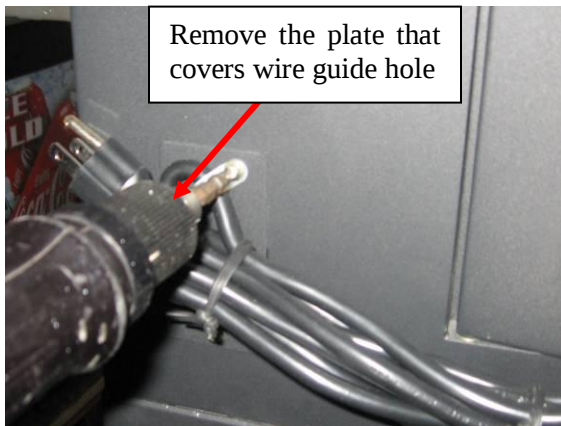


Figure 8

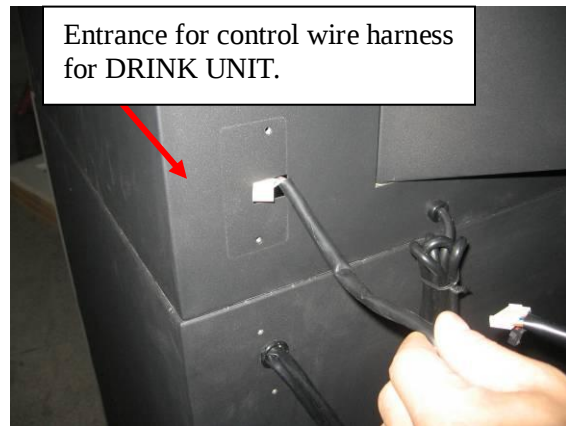


Figure 9

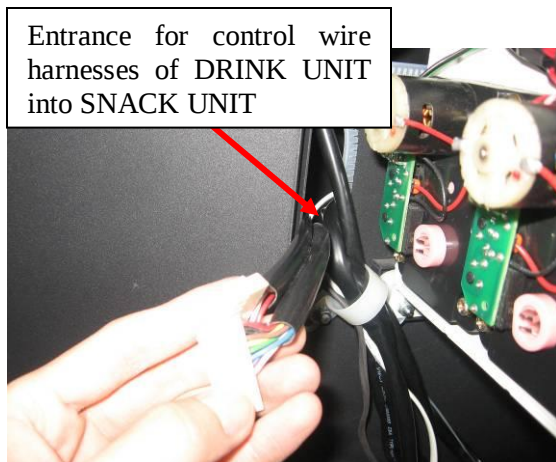


Figure 10

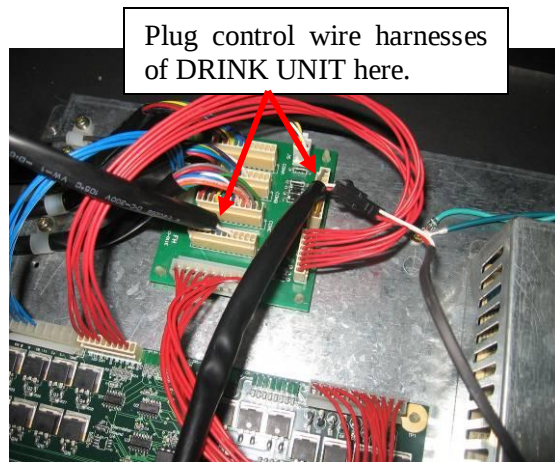


Figure 11



Figure 12

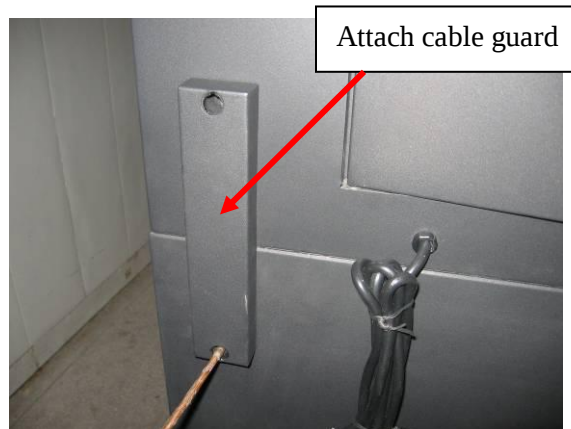


Figure 13

2.4 – Location

CAUTION:

If the machine is tilted more than 45 degrees during installation, you must keep the machine unplugged from the power outlet for 12 hours before plugging the machine back into the power outlet. Not doing this could damage the refrigeration unit and void the warranty.

1. This vending machine is intended for indoor use only.
2. Select an area to place the machine that is near a power outlet.
3. Leave a minimum of at least one inch of space from the wall. The refrigeration unit must have good air circulation.

2.5 - Power

It is recommended that a surge protection device be utilized. Single outlet surge protectors (*Figure 14*) or multiple outlet surge protectors (*Figure 15*) are generally available at hardware stores, Radio Shack, electronics retailers, or manufacturers like Prime Wire and Cable (primewirecable.com).

1. Plug the machine into a 110 VAC outlet with surge protection.
2. It is NOT recommended to use an extension cord. If an extension cord is needed, it must be a 16-gauge three-wire type.
3. Depending on the local climate, it will take about 24 hours for the machine to reach an operating temperature of 38-45 degrees F.



Figure 14



Figure 15

3 - ELECTRONIC CONTROL SYSTEM

There is a large “service mode” button in the electronic control unit (*Figure 16*). When it is pressed firmly and continuously for 3-4 seconds, the system will switch from “sales mode” to “service mode”. While in service mode, just press the “Cancel” button a few times on the front keypad (*Figure 17*) to come back to sales mode.

Notes to some keys:

“Enter”----- Enter submenu or confirm

“Cancel”----- Return to upper menu option or sales mode

“Up”----- Scroll up

“Down”----- Scroll down

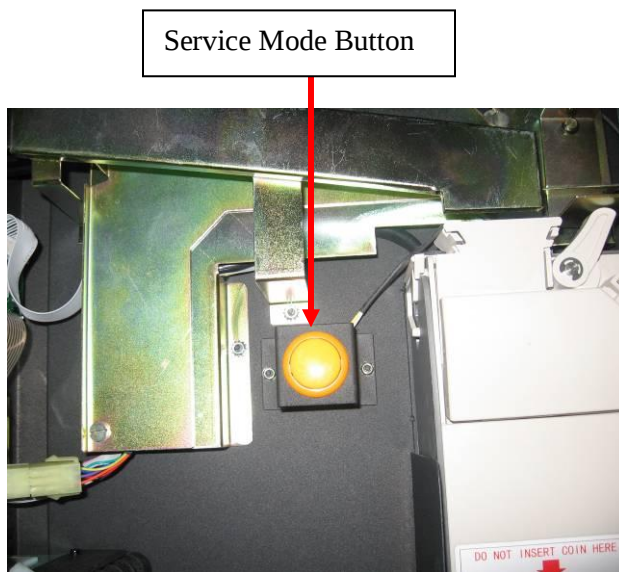


Figure 16 – Service Mode Button



Figure 17 – Front Keypad

Service Mode Menu List

Main			
Menu	Sub-menu	Sub-menu	Description of what this sub-menu does
SALES			
	Show Total Cash		Shows total cash put into the machine
	Show Total Sales		Shows total dollars in sales made
	Show Total Vends		Shows total number of vends made
	Clear Sales Data?		Clears all the above data to Zero.
	Reset Bin Qty?		Resets all bin qtys to factory presets
MANAGE			
	Coin Mech		All Coin Mech functions done here. Add/remove change/see value of change
	Review Bin Qty		Review and change bin quantity settings
	Review Price		Review and change bin pricing settings
	Empty Bin		Empty a bin location of products
	Sold Out		Manually turn off drink sold out sensors. For use when sold out sensor fails.
	Set Sys Ser #		Enter serial numbers on the back of the machines here
SETUP			
	Controller		
		Set ABCD Qty	Turn on or off Snack/Drink Bin Quantity Settings /Sold out message
		Set Machine Type	Set up machine type: RC800
		Set Bill Enable	Bill Acceptor is preset at \$5.00 worth of coins to turn on. Change that value here
		Set Coin Return	Set machine to give change if money is inserted but nothing vended. Yes or NO
		Set Bin D4	Select 8.5 oz can or 16 oz bottle. Choice changes factory bin quantity presets
		Set Defaults	Resets ALL computer settings to factory presets.
	Motor Control		
		Add Motor Ctrl	Connect "slave" board to computer. Use when advised by tech support
		Clr Motor Ctrl	Disconnect "slave" board. Use when advised by tech support
TEST			
	Key Pad		Key pad test
	Motors		
		One Bin	Test one bin motor with one spin
		One Bin Cont.	Test one bin motor with continuous spinning. Press CANCEL to stop
		All Bins	Test all bin motors with one spin, one after another, from A1 to D6
		All Bins Cont.	Test all bin motors with continuous spinning. Press CANCEL to stop
	Test Slave		Test connection from main circuit board to slave board

4 - CONFIGURING THE VENDING MACHINE FOR SALES

In order to get the machine ready for sales, the following **must** be done.

1. Set up / Activate the Machine type. (factory setup)
2. Set up / Engage Motor Control (Slave) Board (factory setup)
3. Set up / Choose the drink size to be vended in Bin D4.
4. Load snack and beverage products.
5. Display drinks in display door behind window.
6. Load coins into coin changer.
7. Set snack bin and beverage column prices into the computer and apply price tags to bins.
8. Clear System Sales Memory after product stocking/refilling.
9. Choose / Set up / Activate the Coin Return feature (optional)

* If technical support walks you through a master reset to clear a software problem you will need to do two other steps before proceeding above. These steps (4.1 - Setup/Activate the Machine Type and 4.2 - Setup/Engage Motor Control (Slave) Board) are covered in the last page of this manual.

4.3 – Set up / Choose drink size for bin D4

Bin D4 allows the operator the option of vending an 8.3-8.5 oz energy drink can or a 16 oz can or a 16.0-16.9 oz plastic bottle beverage. As part of the system setup, the operator needs to decide which beverage type he will vend from bin D4 and set that choice in the computer system.

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Ensure the vending machine is plugged into power.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold the service mode button in the electronic control unit until the LCD reads “SALES”
- Press the down button twice. LCD reads “SETUP”. Press the ENTER button.
- LCD reads “Controller”. Press ENTER button.
- LCD reads “Set ABCD Qty”. Press the DOWN button FOUR times.
- LCD reads “Set Bin D4”. Press the ENTER button.
- LCD reads “Type: 16oz Drink”. If selecting, press ENTER button. If choosing an 8.5 oz drink, press the DOWN button. LCD reads ”Type: 8.5oz Drink. If selecting, press ENTER button.
- Once selected, LCD will read “Saving drink size”. Press CANCEL button three times until the LCD display reads: “Enjoy a Snack and a Beverage”.

4.4 – Loading Chips, Snacks, Candy, and Beverages

To begin loading items into the snack and candy bins:

- Make sure the SNACK UNIT main front door is fully opened.
- CAREFULLY cut the zip ties that secure the wheels of the three product trays (*Figure 18*).
- Hold the white lever down (*Figure 18*) and pull the product tray towards you.
- When fully extended the product tray will tilt downward for easy product loading (*Figure 19*).
- Load the products correctly in between the coils in the product tray (*Figure 20*).
- After products are correctly loaded, tilt the product tray upwards and push it back into the original position.
- Put price labels on each bin location on the snack tray (*figure 18*).

Please note the following snack capacities for each row of bins:

- Rows A1-A5 can hold up to 7 snacks per row ($5 \text{ rows} \times 7 \text{ snacks} = 35 \text{ snacks}$).
- Rows B1-B6 can hold up to 8 snacks per row ($6 \text{ rows} \times 8 \text{ snacks} = 48 \text{ snacks}$).
- Rows C1-C9 can hold up to 13 snacks per row ($9 \text{ rows} \times 13 \text{ snacks} = 117 \text{ snacks}$).

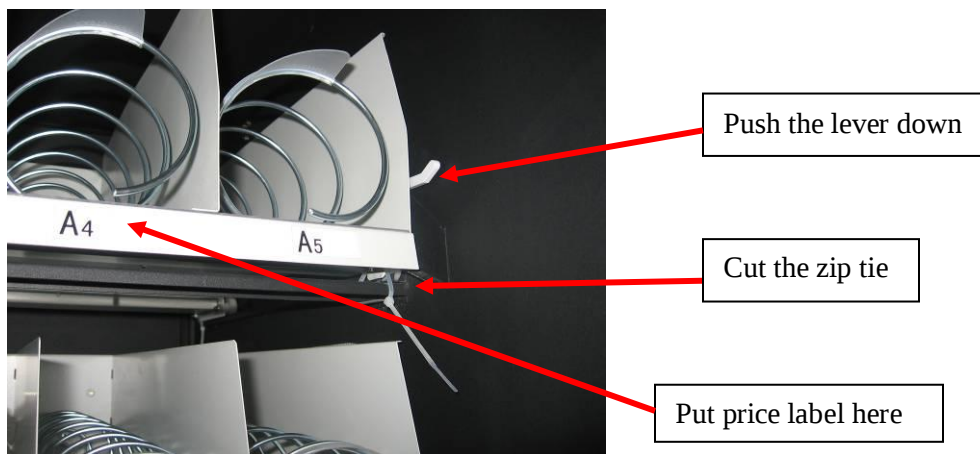


Figure 18 – Zip tie and lever



Figure 19 – Pull the tray towards you.



Figure 20 – Proper way to load product

DRINK UNIT Beverage Column Capacities:

- There are three columns for 12oz. cans (*D1, D2, and D3*), one column for 16oz. plastic bottles or 8.3oz. energy drink type cans (*D4*) and two columns for 16 or 20oz. plastic bottles or 16oz cans (*D5 and D6*).
- Locations D1-D3 will hold up to 46 cans (12oz.).
- Location D4 will hold up to 13 plastic bottles (16-16.9oz.) or 15 energy drink cans (8.3-8.5oz.).
- Location D5 and D6 will each hold 11 plastic bottles (20oz.) or 12 (16.9 oz) plastic bottles each or 11 (16 oz) cans each.

Beverage loading instructions:

NOTE: IMPORTANT

Loading instructions for the beverage columns must be followed for the machine to vend properly.

FOR COLUMNS D1, D2, and D3:

1. The 12oz cans may be loaded in any either direction (*Figure 21*).

The beverages dispense from the bottom ramp, the back column, the top ramp, and then the top ramps down. Loading the cans properly will allow proper dispensing and not cause cans to jam.

- a. Load the first 5 cans in the “**bottom**” (1st) ramp of D1, D2, and D3.
- b. Then load 11 cans in the “**TOP**” (5th) ramp of D1, D2, and D3. Note how the cans close all the rear “gates” as they fill up the back
- c. Then load cans in the 4th ramp till full of D1, D2, and D3.
- d. Then load cans in the 3rd ramp till full of D1, D2, and D3.
- e. Then load cans in the 2nd ramp till full of D1, D2, and D3.
- f. Then load cans in the 1st ramp till full of D1, D2, and D3

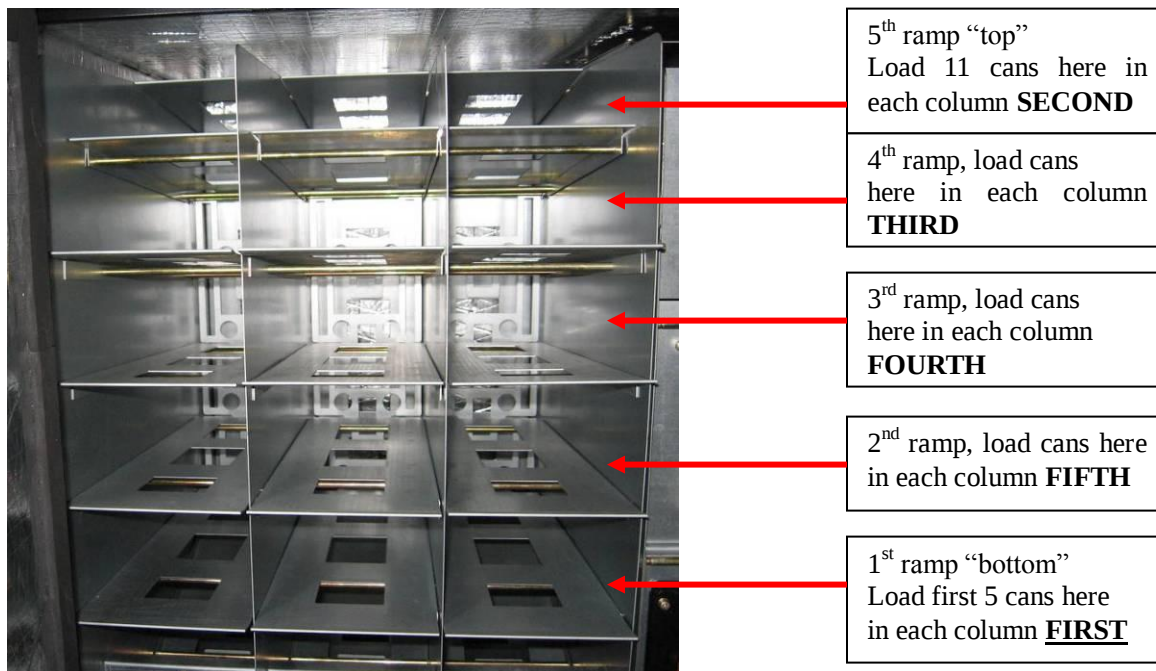


Figure 21 – Locations D1 –D3 of Beverage section

FOR COLUMNS D4-D6:

1. The plastic bottle drink columns have two sections (*front and back*).
 - a. Open the D4, D5, D6 access doors by pulling “up” then “out” (*Figure 22*).
 - b. Pull the internal divider towards you to access the “back” section (*Figure 23*).
 - c. Fill the “back” section first to full capacity (*Figure 24*).
 - d. Push the divider closed and load the “front” section to full capacity (*Figure 25*).
 - e. Close the access doors by pulling up, pushing in place, then pushing down.

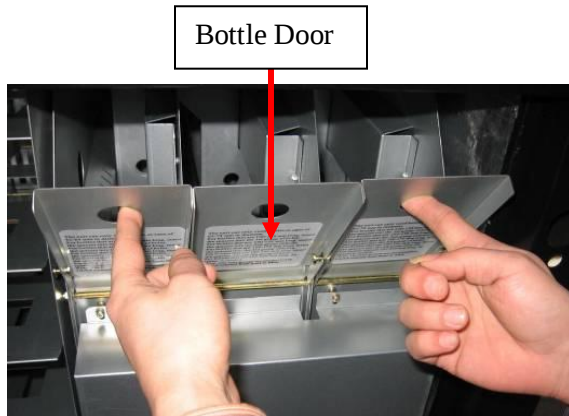


Figure 22 – Pull bottle door “up” then “out”.



Figure 23 – Pull divider toward you.

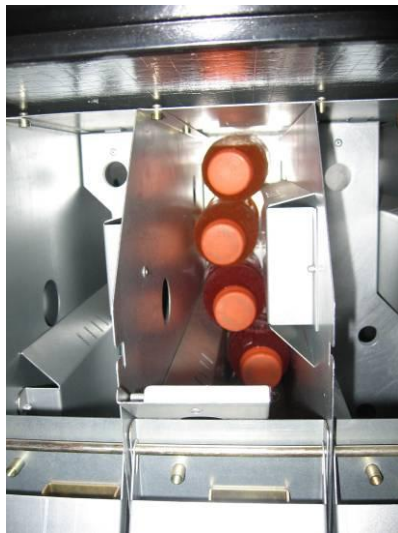


Figure 24– Fill back section first with cans or bottles in any direction

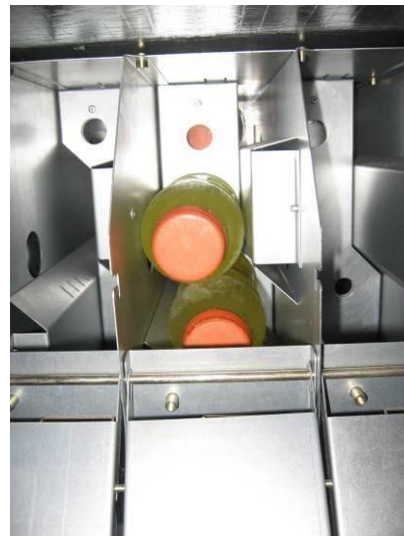


Figure 25– Fill the front section last

2. For locations D4-D6, different sizes of plastic bottles and cans may be loaded.
 - a. For D4, see list of examples of acceptable energy drink cans and 16 oz water /beverage bottles below.
 - b. For D5 and D6, see list of examples of acceptable energy drink cans and 16/20 oz soda/ beverage bottles, on the next page.
 - c. To load short cans or bottles, spacers must be inserted in the front and back sections. D4 uses a thin spacer, D5 /D6 uses a wider spacer (*Figures 26, 27 and 28*).

Refer to the spacer insertion and product-loading page, following later in this section.

D4

8.3 oz Beverages	16 oz Beverages
Red Bull can 8.3 fl oz (<i>need spacer</i>)	Lipton Tea 16.9 fl oz
Dole Juice can 8.4 fl oz (<i>need spacer</i>)	Propel Fitness Water 16.9 fl oz
	Poland Spring Water 16.9 fl oz
	Kirkland Spring Water 16.9 fl oz
	Aquafina 16.9 fl. oz
	Arrowhead Water 16.9 oz
Any similar brand 8.3 oz, 8.4 oz can	Crystal Geyser Water 16.9 oz Any similar brand 16.9 oz water

D5 –D6

16 oz / 20 oz Beverages
Gatorade 20 fl oz (<i>need spacer</i>)
Vitamin Water 20 fl oz (<i>need spacer</i>)
Coca Cola brand soda 20 oz
Coca Cola brand soda 16 oz
Lipton Brisk 16.9 fl oz
Dole Juice 15.2 fl oz (<i>need spacer</i>)
Tropical Juice 15.2 fl oz (<i>need spacer</i>)
Minute Maid 15.2 fl oz (<i>need spacer</i>)
Nestea 16 fl oz (<i>need spacer</i>)
Nestea Nesquick 16 fl oz (<i>need spacer</i>)
Energy drink cans 16 fl oz (<i>need spacer</i>)

3. Spacer insertion and product loading:

Note: a flashlight is recommended to assist in locating the proper spacer slots.

- a. Select a can or bottle sample which you wish to fill the column with, and hold it against the front of the column. Make note of the first spacer slot closest to the top of your can or bottle sample (*Figure 29*).
- b. Pull the column divider towards you to open the back section (*Figure 23, page 16*).
- c. Slide the proper column spacer into the column using the finger hole and guide it into the rear section (*Figure 30*).
- d. Slip the spacer into the three (3) slots (*left side, right side, and bottom*) that corresponds with the size of your can or bottle sample from step 1 (*Figure 31*).
- e. Load your cans or bottles in front of the spacer until the rear column is full. Then push the section divider back into place (*Figures 32, 33 and 34*).
- f. Slip the second spacer into the proper front column three slots (*left side, right side, and bottom*) (*Figure 35*).
- g. Load your cans or bottles in front of the spacer. You will feel some resistance from the sensor flap as you push the cans/ bottles down into place (*Figure 36*).
- h. Close outer door (*Figure 37*).
- i. Cans or bottles that do not easily slide past the rectangular loading guides will not vend and can cause machine malfunctions. Always ensure your chosen can or bottle fits the column properly.

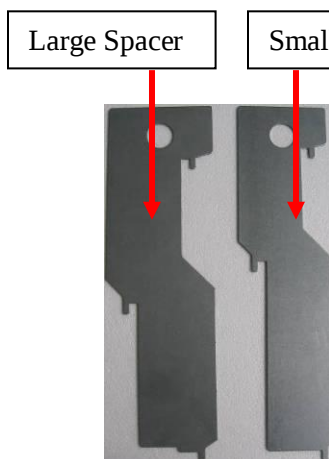


Figure 26 – Spacer

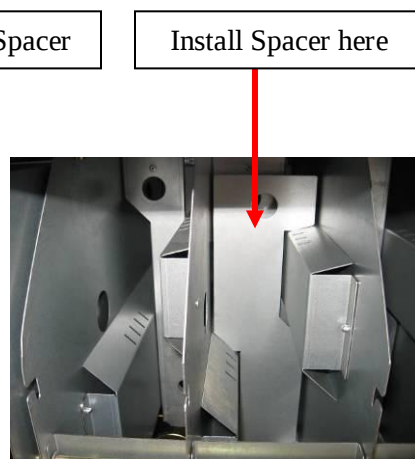


Figure 27 – Install inner spacer

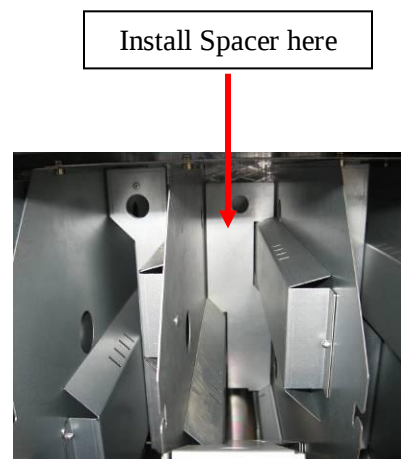


Figure 28 – Install outer spacer



Spacer guide



Inserting the spacer

Figur29

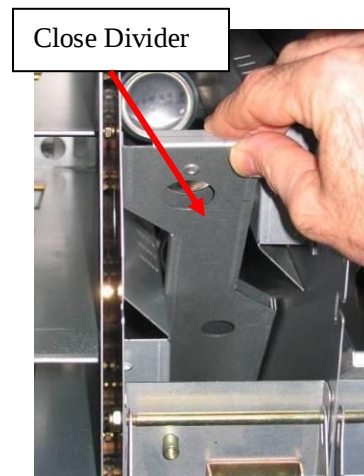
Figure 30



Figure31



Figure 32



Close Divider

Figure 33



Figure 34

Second spacer inserted into guide at front section



Figure 35

Cans or bottles loaded in the front section



Figure 36

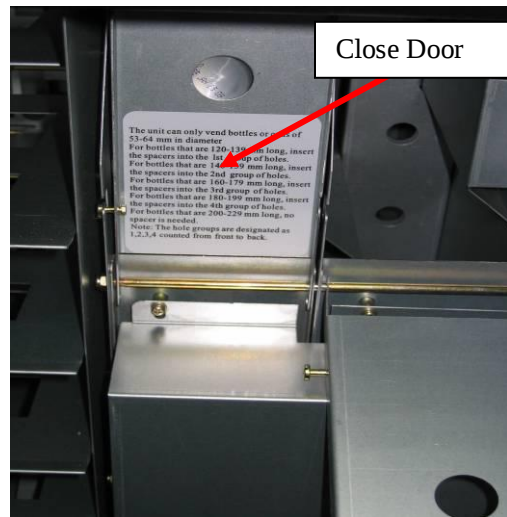


Figure 37

4.5 - Displaying beverages behind the window

- Open the cold drink door, then open the drink display window door of the DRINK UNIT.
- Place the price tag for each sample beverage next to its beverage column location number (D1 – D6) on the vinyl sign on the front of the foam insert facing the window.
- Place sample cans/bottles on corresponding locations D1-D6, and then close the door of the display window.

4.6- Loading the Coin Changer

- Press and hold the service mode button in the electronic control unit until the LCD reads “SALES”.
- Press the DOWN button once, LCD reads “MANAGE”. Press ENTER button.
- LCD reads “Coin Mech”. Press ENTER.
- LCD reads “Money \$: / A=25C B=10C C=5C”.
- Load coins one at a time into the Coin-co coin changer located in the electronic control unit. **IMPORTANT: load coins through the coin slot on the front panel, or directly from the TOP of the Coin-co coin changer.**

NOTE: NEVER input coins from the 3 side slots of the coin changer (Figure 38).

- Load at least \$5.00 worth of coins into the Coin-co coin changer, or the electronic dollar bill acceptor will not work.
- Each tube can hold the following quantities:
 - 78 Quarters \$0.25
 - 115 Dimes \$0.10
 - 79 Nickels \$0.05
- Press the cancel button 3 times to return the LCD to read “Enjoy a Snack and a Beverage”. The three buttons on the front of the dollar bill acceptor should flash green. You are now in vending mode and the machine is ready to be put into service.
- Remove the screws that secure the coin box, so that the coin box can be taken out of the control unit (Figure 39).

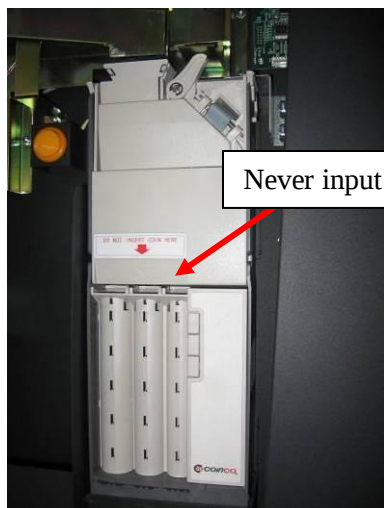


Figure38



Figure 39

4.7 - Setting Prices in the Computer

NOTE: Factory pre-set prices in the computer are \$ 0.75 on all drink and snack bins.

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold the service mode button in the electronic control unit until the LCD reads “SALES”.
- Press the DOWN button once. LCD reads “MANAGE” Press ENTER button, LCD reads “Coin Mech”.
- Press DOWN button twice, LCD reads “Review Price”.
- Press ENTER button. LCD reads “Review Prices / Bin: A1 \$0.75”.
- Press ENTER button. A flashing black square appears to the right of the 0.75 price.
- Press the numbers on the keypad that you wish to use for the price you wish to set for this bin location. EX: If you wish for location A1 to be set at \$1.00, press 1, then 0, then 0, **then ENTER**, the LCD now reads “Review Prices / Bin: A1 \$1.00”.
- Press the DOWN button, LCD reads “Review Prices / Bin: A2 \$0.75”.
- Repeat steps above after setting the price on each bin, press the DOWN button to continue through bins A1- A5, B1- B6, C1-C9, and D1 through D6.
- If you wish to go back and change a bin or review a bin price, press the UP or DOWN buttons until you find the required bin number, or press the letter for the row you wish to change, then press the UP or DOWN buttons until you get to the required bin location.
- When all bin pricing is set and complete, press the cancel button three times or until the LCD reads “Enjoy a Snack and a Beverage”.

4.8 – Clearing machine cash, sales, and vend memory

Clearing the machine memory in preparation to vend, after the initial loading of coins, snacks and beverages, and after restocking or servicing the machine.

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold the service mode button in the electronic control unit until the LCD reads “SALES”. Press Enter. LCD reads “Show Total Cash”
- Press ENTER button, LCD reads “Total Cash / Cash: \$.xx”.
- Press DOWN button, LCD reads “Total Sales / Sales: \$.xx”.
- Press DOWN button, LCD reads “Total Vends / Vends:X”.
- Press DOWN button, LCD reads “Clear Sales Data?”.
- Press YES button, LCD flashes “Clearing Data!” Then reads “SALES”.
- Press CANCEL button twice until the LCD reads “Enjoy a Snack And a Beverage”.
- Machine memory is now cleared and the machine is ready to vend.

4.9 – Choosing / Set up Coin Return Option

This vending machine is preset to **NOT** refund money to a customer who places money in the vending machine and then changes their mind and decides they do not want to vend. This prevents customers from using the vending machine as a change machine. If you, the operator, wish to allow customers to insert money, not vend anything, and get their money back, you may activate the “SET COIN RETURN” feature in this machine.

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold the service mode button in the electronic control unit until the LCD reads “Sales”
- Press the down button twice. LCD reads “SETUP”. Press the ENTER button.
- LCD reads “Controller”. Press the ENTER button.
- LCD reads “Set ABCD Qty”. Press the DOWN button three times.
- LCD reads “Set Coin Return”. Press ENTER button.
- LCD reads “Coin Return OFF”. Press the UP button once.
- LCD reads “Coin Return ON. Press the ENTER button.
- LCD reads “Saving coin return on”.
- Press CANCEL button three times until the LCD display reads: “Enjoy a Snack and a Beverage”

5 – SERVICE AND MAINTENANCE

5.1 – General Maintenance

5.1.1 – Cleaning

Clean the internal and exterior cabinet with a damp cloth. Do not use ammonia based window cleaners to clean the product display windows.

To lower the electricity costs and minimize service, it is very important to clean the condenser regularly. The condenser is located at the front of the machine at the bottom. Remove the filter in front of the condenser (*Figure 40*) , You can use compressed air or a vacuum to clean the condenser. A stiff brush can also be used, but brush lightly to prevent condenser fin damage (*Figure 41*).

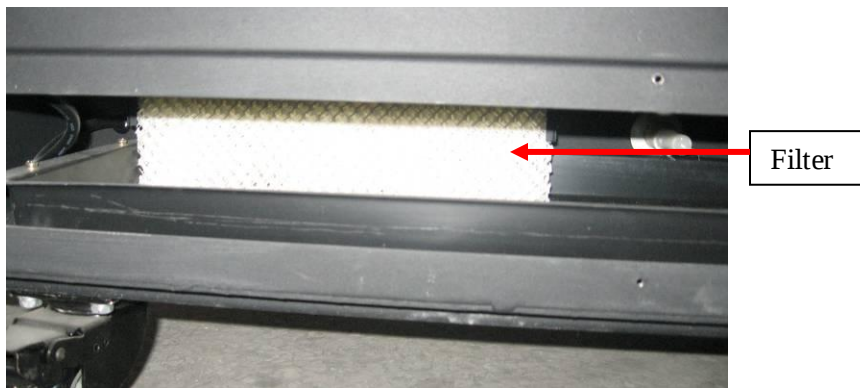


Figure 40 – Filter

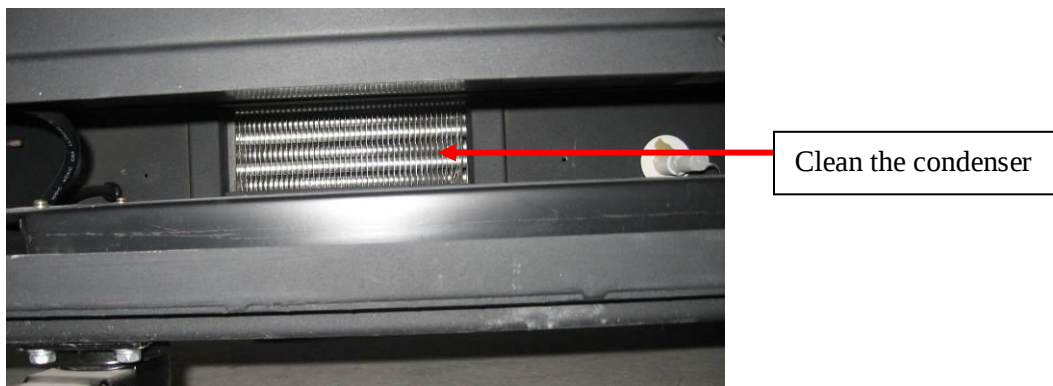
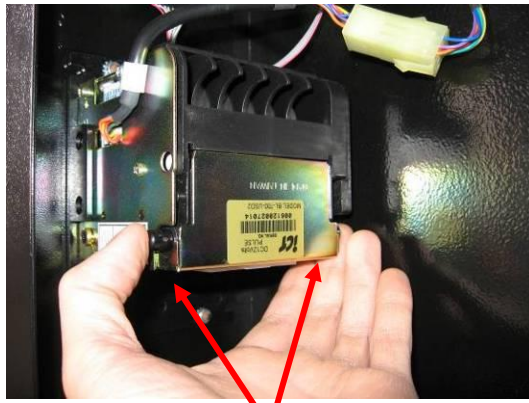


Figure 41 – Clean the condenser

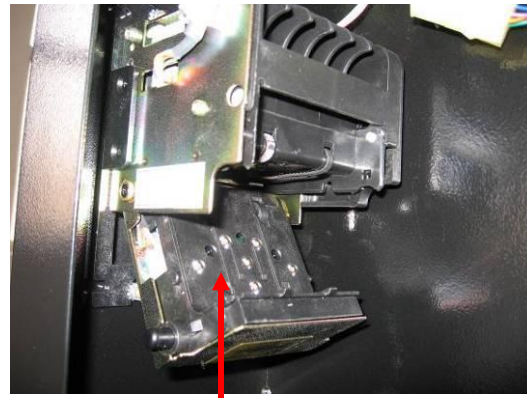
5.1.2 – Clearing coin and bill validator jams

1. To clear jams on the bill validator, push the buttons on both sides of the bill validator and pull down. Remove the jammed bill and clean lenses and belts with a clean cotton cloth and WATER only. DO NOT USE SUBSTANCES such as alcohol, gasoline, paint thinner, etc. (*Figures 42 and 43*).



Push Buttons to open

Figure 42 – Push buttons to open.



Clean lens and belts with a clean cloth

Figure 43 – Clean lens and belt with a clean cloth

2. To clear coin jams press the coin release button. NOTE: This is **NOT** a COIN RETURN button.

5.2 Service and technical information

Your Vending Machine is comprised of 3 subsystems; each subsystem is dedicated to perform its own function.

1. Electronic Control Unit
2. Vending Motors
3. Refrigeration unit

The following information will describe each subsystem and how to maintain and service it.

5.2.1 Electronic Control Unit

Electronic Control Unit components are mounted on the service tray and mounting plate at the side and back of the snack trays (*Figures 44, 45 and 46*). To access the Electronic Control Unit, unlock the lock at the top, and pull on the bottom or sides to slide it out away from the vending cabinet, giving you access to the service tray. To access the mounting plate containing the power supply and slave board, open the back door.

The Electronic Control Unit consists of the following components.

- LCD Display
- Keypad
- Keypad terminal board
- Bill Validator
- Coin Changer
- Master (main) control board
- Slave board
- Motor Control Board
- Service button
- Power supply

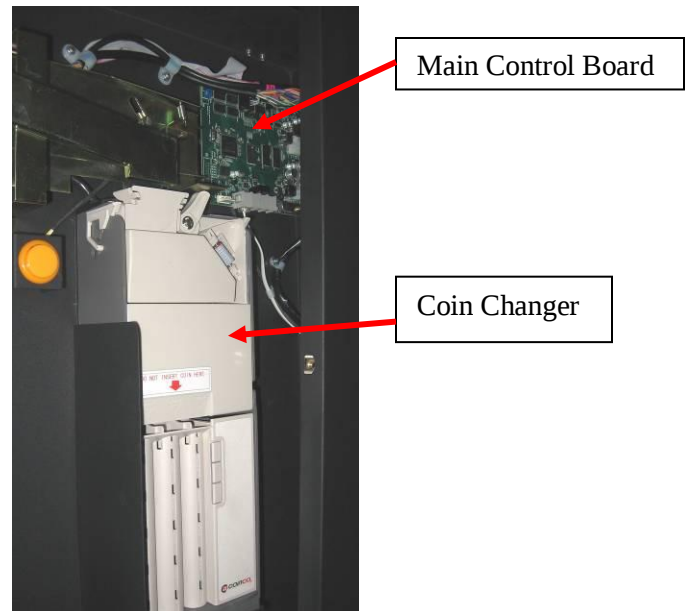


Figure 44 – Components in the Electronic Control Unit

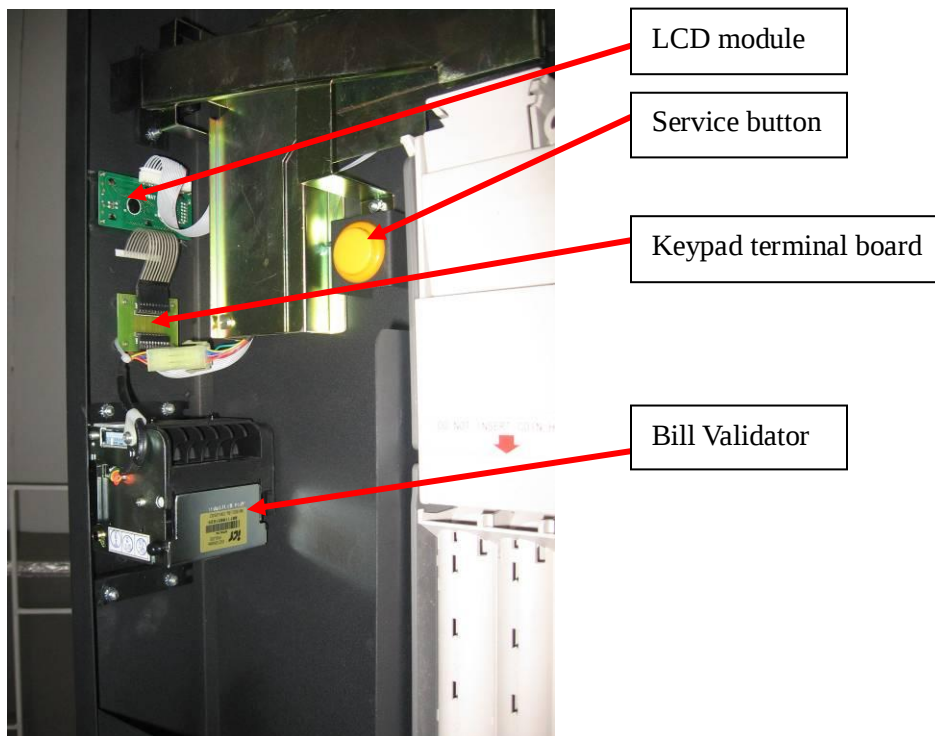


Figure 45 - Components in the Electronic Control Unit

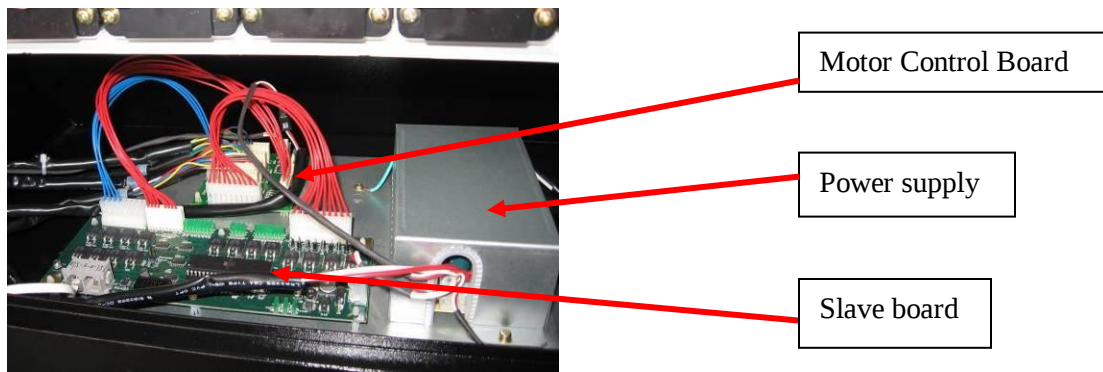


Figure 46 - Components in the rear mounting plate

All the components can be removed independently. To remove any components, follow the instructions below:

1. Unplug the Power Cord first
2. Disconnect all connectors from that component
3. Remove the mounting screws
4. Remove the component for service or replacement

5.2.2 – Vending motor

The machine vends products by using a gear motor connected to a spiral.

How to remove a snack or candy motor:

- a. Open the back door on the vending machine (Figure 47).
- b. Select the defective motor that requires replacement.
- c. Remove the harness connector and the 4 mounting screws (Figure 48).

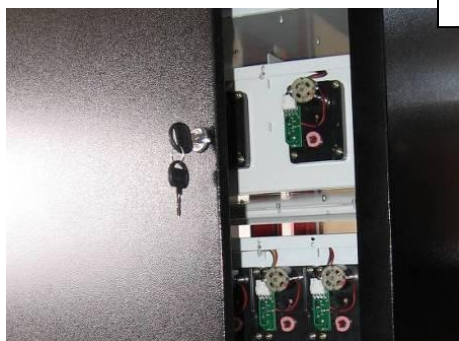


Figure 47- Open the back door

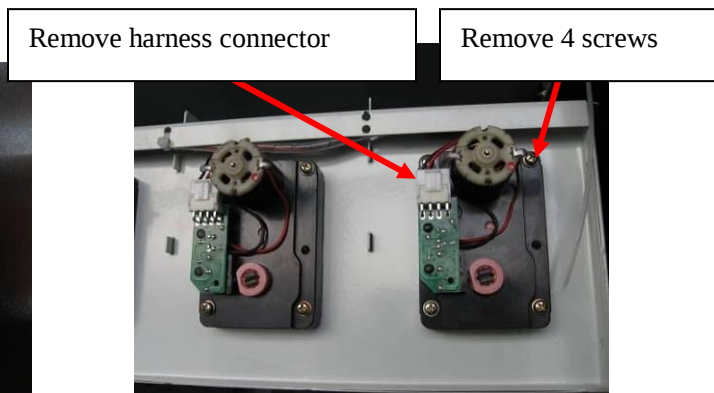


Figure 48 – Removing the motor

How to remove a beverage motor:

In the beverage compartment, the motors are mounted behind the protective covers.

- a. Remove the protective cover (*Figure 49*).
- b. Select the defective motor that requires replacement.
- c. Remove the harness connector and the 4 mounting screws (*Figure 50*).

Notes:

While installing replacement motors for D1-D3, make sure to have the copper sheath aligned as shown in the picture, the copper sheath must be held in the recess of the vend plate (*Figure 51*).

The bottle holders for D4-D6 must face down at one end and face up at the other end (*Figure 52*).



Figure 49 – Remove protective cover

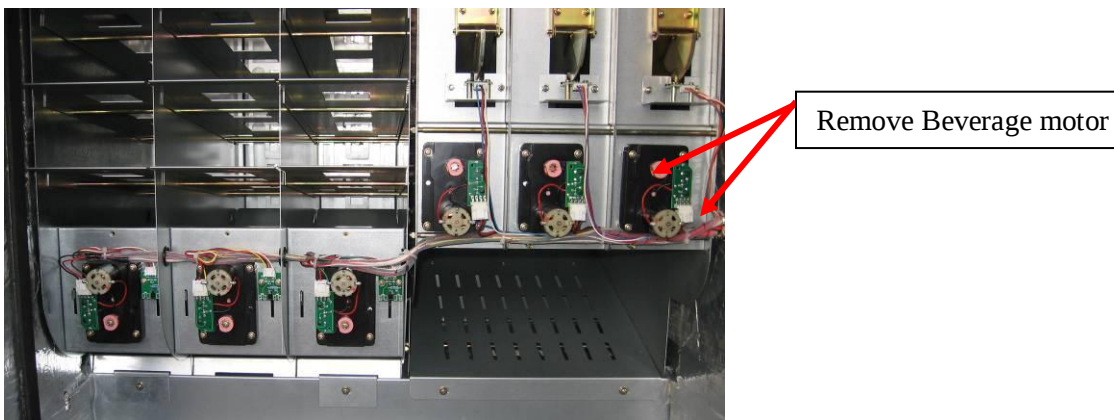


Figure 50 – Removing the beverage motor

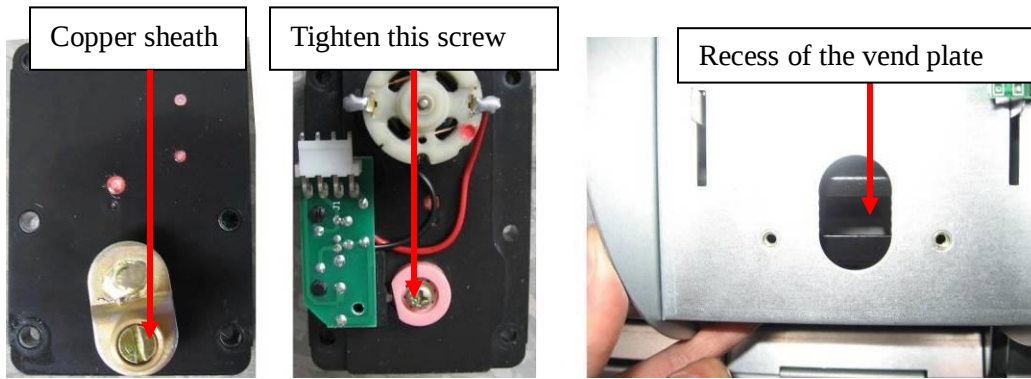


Figure 51

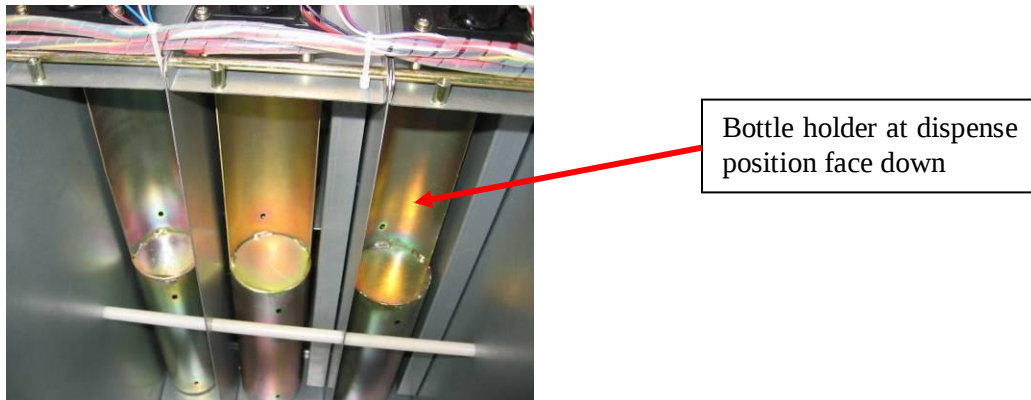


Figure 52

5.2.3 - Refrigeration unit

The refrigeration unit is located at the lower back of the machine. It is completely self-contained. You can adjust the beverage machines temperature by turning the temperature control screw clockwise ($1/8''$ at a time) for a colder setting (Figure 53).

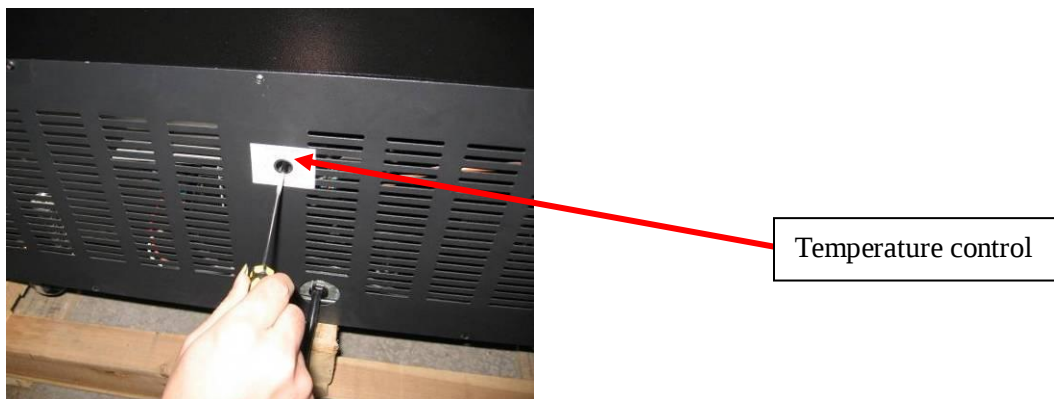


Figure 53 – Temperature control

If there is a service problem: (Figure 54)

1. Unplug the power cord
2. Remove the protection grid plate
3. Disconnect the power plug
4. Remove the mounting screws
5. Pull the refrigeration unit out by pulling the handles toward you.

Note:

If the refrigeration units, after extended use needs to be serviced, we recommend sliding a “dull” thin blade over the cooler chamber. That will break the seal between the rubber gasket and the metal surface and allow the unit to slide out easier.

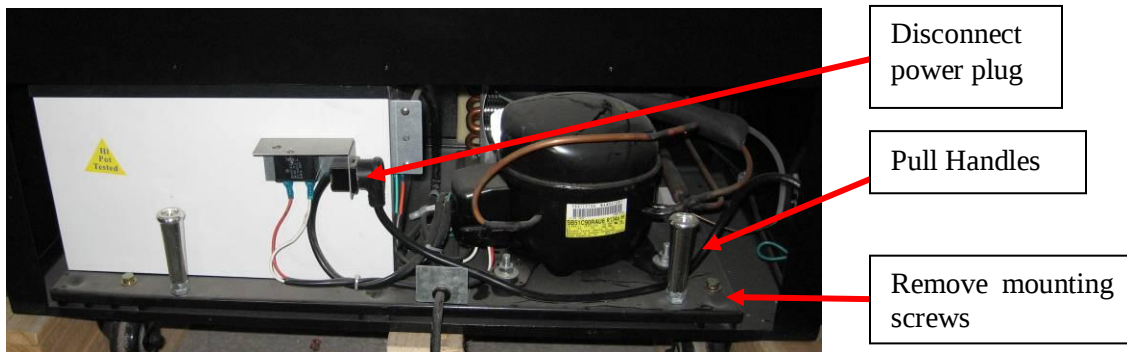


Figure 54 – Removing the compressor

5.2.4 - Electrical schematic

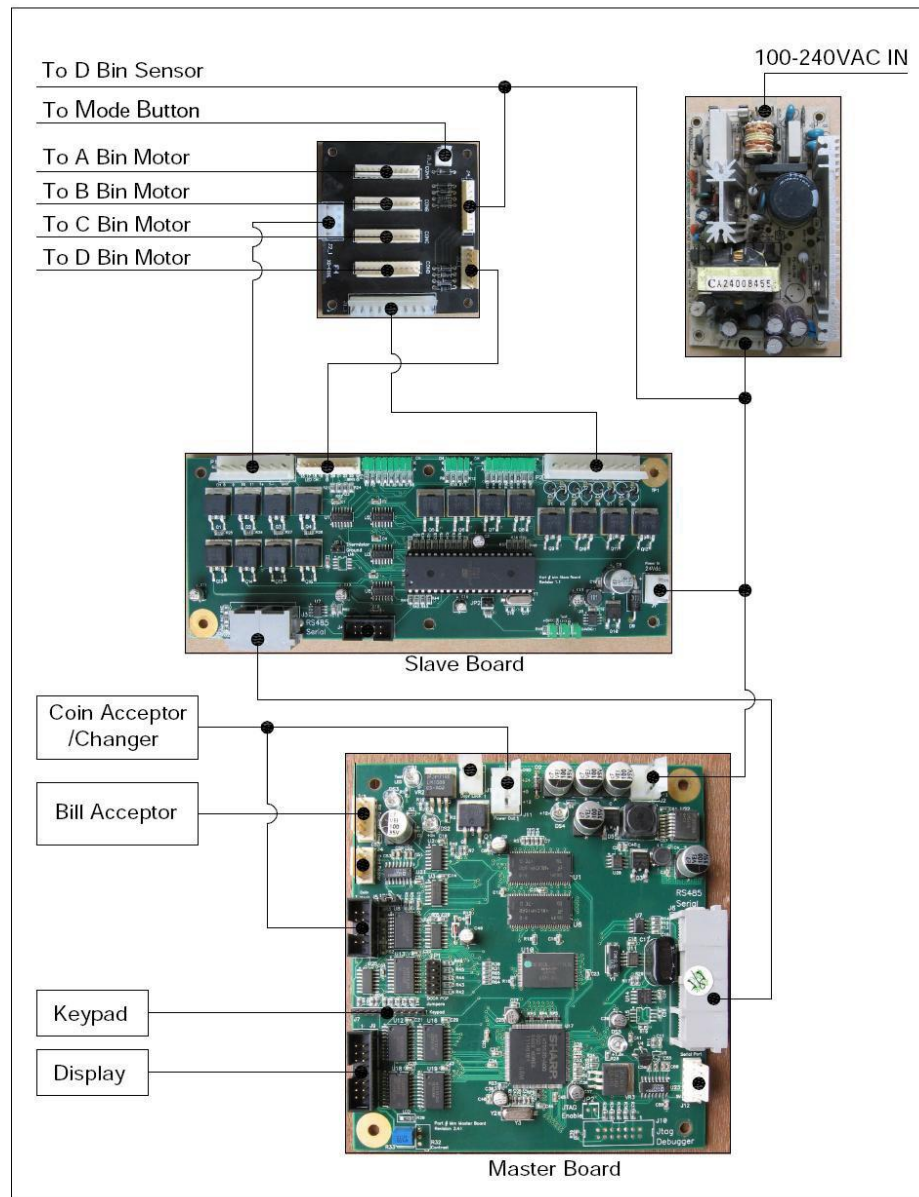
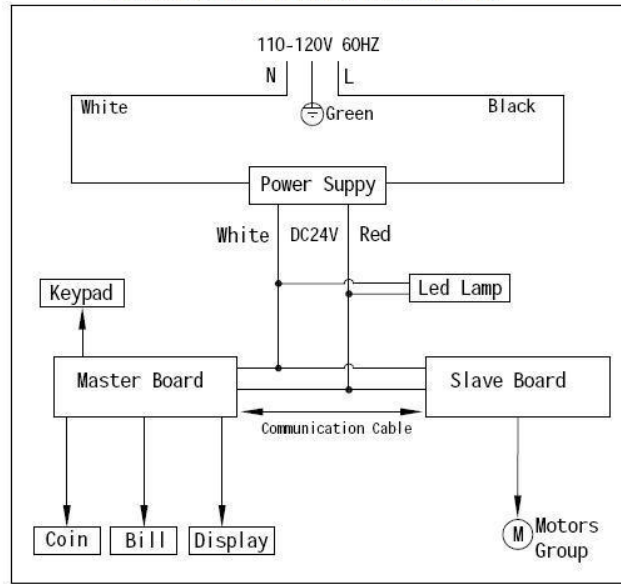


Figure 55 - Control Circuit Schematic

SNACK UNIT Electrical Schematic



DRINK UNIT Electrical Schematic

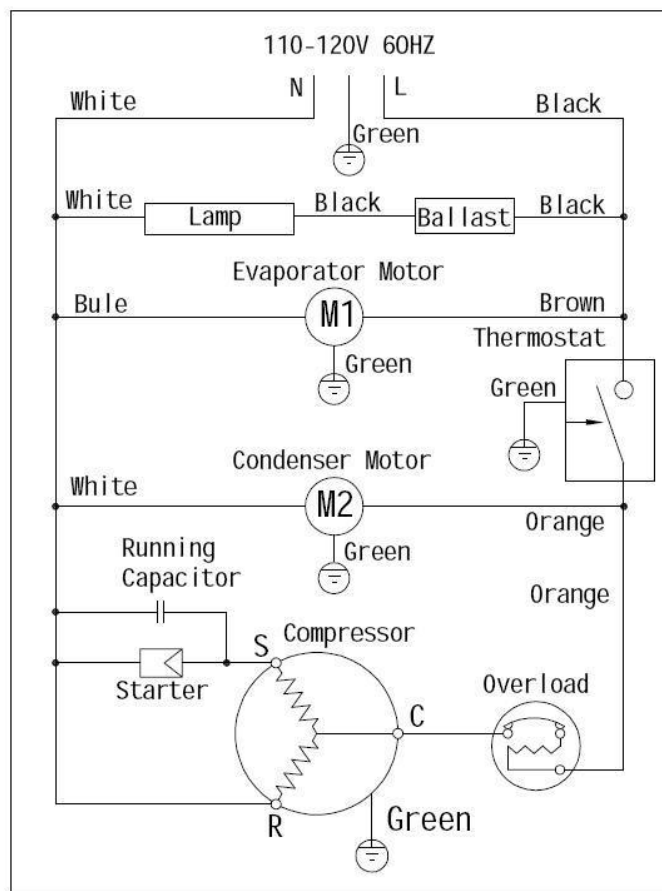


Figure 56 - Primary Electrical Schematic

4.1 – Set up / Activate Machine Type (factory setup)

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Ensure the vending machine is plugged into power.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold down the service mode button in the electronic control unit until the LCD reads “SALES”
- Press the DOWN button twice. LCD reads “SETUP”. Press ENTER button.
- LCD reads “Controller”. Press ENTER button.
- LCD reads “Set ABCD Qty”. Press DOWN button once times.
- LCD reads “Set Machine Type”. Press ENTER button.
- LCD reads “RC800”. Press DOWN button twice.
- LCD reads “RC800”. Press ENTER.
- LCD reads “Saving Type”. Press CANCEL button three times until the LCD display reads: “Enjoy a Snack and a Beverage”

4.2 – Setup / Activate the Motor Control (Slave Board) (factory setup)

- Ensure the SNACK UNIT is properly attached to the DRINK UNIT and all electrical connections are firmly and properly in place.
- Ensure the vending machine is plugged into power.
- Open the electronic control panel by using the proper key to unlock it and pull the panel toward you/out until it stops.
- Press and hold down the service mode button in the electronic control unit until the LCD reads “SALES”
- Press the DOWN button twice. LCD reads “SETUP”. Press ENTER button.
- LCD reads “Controller”. Press DOWN button.
- LCD reads “Motor Control”. Press ENTER button.
- LCD reads “Add Motor Control”. Press Enter button.
- LCD shows “Connect” and then shows some serial numbers to indicate the connection.
- Press CANCEL three times or until you see “Please Enjoy a Snack and a Beverage”.