



# **SATELLITE CAN/BOTTLE VENDOR**

**MODEL 3099**

# **SERVICE MANUAL**

**May, 08**

**P/N 4208379**

**Rev. C**

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Record the Model Number and Serial Number of your machine below.

The Model and Serial numbers will be needed for you to obtain quick service and parts information for your machine. The numbers are available on the identification plate located on the back side of the cabinet of the vendor.

**MODEL NUMBER:** \_\_\_\_\_

**SERIAL NUMBER:** \_\_\_\_\_

## INTRODUCTION

This manual contains service and installation guidelines, and instructions pertaining to the Model 3099 Satellite Can/Bottle Vendor.

The Satellite Can/Bottle Vendor is a refrigerated can/bottle vendor with six (6) motor driven vend mechanisms capable of vending eight (8) different selections or items. The vend compartments are capable of vending containers of various sizes and shapes including the 20 ounce products.

The Satellite Can/Bottle Vendor must be connected to a Snack Mart III or Snack Mart IIIA Glassfront merchandiser or similar type "host" machine. All programming of the vend functions, pricing and features are done at the controller of the host and changes and/or information can be retrieved without the need of any additional accessories or remote parts.

When connected to the host vendor the electronics within the host control system allows all selections to be priced separately at various vend prices ranging from \$.05 to \$99.95 in five cent increments. Money must be inserted into the host vendor and the selection made from the host to make a vend from the satellite unit.

Electronic failures and service diagnostics are recorded and "error code" messages will be displayed to the service personnel when the controller is placed in the *Service Mode*. Refer to the host service manual for details.

## SPECIFICATIONS

### General

Height:	72 Inches
Width:	29 3/8 Inches
Depth:	32 3/8 Inches, W/O Hopper 35 3/4 Inches, W/Hopper
Weight:	652 Pounds

### Electrical

Power:	120 Volt AC, 60 Cycle, 15 Amp,
Transformer:	24 VAC, 75 VA
Starting Amps:	28 Amps
Running Amps:	7.5 Amps

### Capacity

Selections:	8 Select
Total Capacity:	144 Containers

### Pricing

\$.05 to \$99.95 (Controlled at host vendor)

### Coinage

Shared with host vendor

### Refrigeration

Type:	1/3 HP Hermetically Sealed High Efficiency
Refrigerant:	R134a
Charge:	7.25 Ounces

## UNPACKING

This machine has been thoroughly inspected prior to shipment and has been packaged in a manner to prevent damage during transit.

The delivering carrier has accepted this vendor as their responsibility. Any damage or irregularities should be noted at the time of delivery and reported 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 machine.

To unpack the vendor:

1. Cut and remove the straps that secure the packaging material to the vendor.
2. Carefully remove all external packing material from the vendor taking care not to mar or damage the vendor's finish.
3. Remove the protective plastic bag.
4. Inspect the machine for concealed shipping damage. Report any damage hidden by the packing material directly to the delivering carrier.
5. Remove the "Knock-A-Way" Skid Boards by placing a 2 X 4 under the vendor, inserting a large screwdriver or prying tool into the groove of the Knock-A-Way and splitting it in two. Turn the leveling screws in as far as possible. See **Figure 1**.

**Figure 1**

6. Locate the key, taped inside the delivery opening, and unlock the outer door. The "T" handle latch will require several full turns counter clockwise to open the main door.
7. Pull the power cord of the Satellite Vendor to its full extension away from the back of the

cabinet. The cord will be approximately 6 ft. (1.82 meters) in length.

8. Remove all packing material, shipping brackets, product kits, and tape from inside the vendor. Adhesive residue can be removed with denatured alcohol or common household vinegar.
9. A model number, serial number and inspection number appears on the final inspection form and the serial plate of each vendor. Refer to these numbers on all correspondence and inquiries pertaining to this vendor.

## INSTALLATION

Position the vendor in its place of operation to the right of the host machine no further than 6 feet (1.82 meters) from the power outlet or receptacle.

Check that the door will open fully without interference. Leave at least 6 inches (15 centimeters) of space between the back of the machine and any wall or obstruction for proper air circulation and exhaust.

Level the vendor, making sure all levelers are touching the floor. The rear leg levelers should be adjusted first, especially when the equipment is being "banked". The vendor must be level to obtain proper operation. When the vendor is level, the door can be opened to any position and not move by itself. Try the door half closed, straight out and in the wide open position before deciding the vendor is level.

## Grounding & Electrical

Prior to connecting the equipment, the integrity of the main electrical supply must be checked for correct polarity, presence of ground and correct voltage. It is recommended that these checks be repeated at 6-month intervals with the routine safety electrical testing of the equipment itself.

To correct negative voltage, amperage, polarity, or ground checks, consult a licensed electrician.

A noise suppressor has been installed in this machine to compensate for any mains signal noise that could interfere with the normal operation of the controller.

For 120 Volt Vendors, the power source must be a minimum 15 Amp, 120 Volt AC ( $\pm 10\%$ ) 60 Cycle.

1. Voltage Check: When the AC volt-meter probes are connected to the **hot** and **neutral** terminals, the voltmeter should indicate 108 - 132 volts AC.
2. Polarity and Ground Check: When the AC voltmeter probes are connected to the **hot** and **ground** terminals, the voltmeter should indicate 108 to 132 volts AC.
3. Amperage Check: At the fuse box or circuit breaker panel, locate the proper circuit, and ensure that the fuse or breaker protecting that circuit is rated at 15 amps or greater.

### NOTE:

The **hot** side of the outlet should always be counter-clockwise from the **ground**. The **neutral** terminal will be clockwise from the **ground** terminal.

Shown in Figure 2 and 3 are two (2) properly grounded and polarized wall outlets. **Figure 2** is a three (3) wire grounding type wall outlet. **Figure 3** is a two (2) wire outlet with a three (3) plug adapter in place.

**Figure 2**

**Figure 3**

## Connecting to the Host

To connect the Satellite Vendor to the host machine:

1. Remove power from both the host machine and the Satellite Vendor.
2. Remove the hole plug from the back of the host machine's cabinet.
3. Insert the umbilical cord from the Satellite Vendor through the hole in the back of the host machine and secure the plate attached to the umbilical cord. (See **Figure 4**.)

**Figure 4**

4. Connect the umbilical cord from the Satellite Vendor to the “H” (lower) connector of the host machine. (See **Figure 5**.)

Verify that all harnessing and cables have been properly routed to clear all moving parts and will not interfere with the delivery of the product.

**Figure 5**

5. The Delivery Hopper is taped inside the bottom area of the door. Remove and assemble as shown in **Figure 6**. Secure with the four (4) bolts and wing nuts provided.

**Figure 6**

6. Plug both the host machine and the Satellite Vendor into the building power source.
7. Set vend prices for the Satellite Vendor. (Refer to the “Set Prices” section.)
8. Load vending compartments and Live Display. (Refer to the “Loading Instructions” section.)
9. Display items in the live display are visible to the buying customer and agree with the products loaded in the specific columns. (Refer to “Live Display” section.)
10. Test vend both machines for proper operation.
11. Delivery Hopper is installed.
12. Vend prices have been properly set and selection labels and price scrolls agree with the programming in the host controller.

Refer to the Wiring Diagrams of the Satellite Vendor and the host Snack Mart for proper identification of the connections and components.

## **LOADING INSTRUCTIONS**

### **NOTE:**

When loading the vendor verify that the product in each selection matches that in the live display and that the price agrees with the programming in the controller.

## **Theory Of Operation**

The bottle racks are designed to support a vertical stack of bottles with an Ejector CAM as a shelf. When a product is vended the CAM is rotated 110°, removing the shelf from underneath the stack of bottles. At the same time a finger is rotated in to the area between the bottom bottle and the second bottle up. This finger holds the stack and allows the bottom bottle only to fall. See **Figure 7**.

**Figure 7**

**NOTE:**

When a selection is empty and a vend is attempted, **select other item** displays. The host controller will configure that selection as inoperative and prevent future vends from being made.

Depress the Service Button in the host vendor to reset the “sold-out” condition each time the machine is filled.

## Rack Configuration

The storage area of the Satellite Vendor consists of two separate sliding racks. Each rack has three (3) bottle modules consisting of two (2) columns. Each module can be configured to vend a single selection alternately from either column or different selections from each column. A total of eight (8) selections are available.

The bottle racks are factory-configured to use dual columns for selections 1, 2, 3 and 4 and single columns for the other four selections (5, 6, 7 and 8). The vendor is sent from the factory to vend most major brand 20 ounce carbonated plastic bottles.

**Figure 8** indicates the selections in relation to the physical location of the motors.

**Figure 8**

**Table 1. Selection/Motor Configuration**

<b>Motor #</b>	<b>Selection</b>	<b>Motor #</b>	<b>Selection</b>
1	H1	4	H4
2	H2	5	H5 & H6
3	H3	6	H7 & H8

## Loading Guidelines

Load the product from the top of the bottle rack as shown in **Figure 9** with the base of the container to the back of the rack.

The vendor is factory-configured to vend most major-brand 20 ounce carbonated plastic bottles, as described in **Table 2**.

Product retainers and product guides are used to confine the product in the column. Product deflectors allow a resting place for the mouth of the container in the vend area of the column. Small diameter spacers and back

spacers are used to position the container in the proper vend position in the column.

To identify which components you need, refer to the tables and figures in this section and the “Special Vend Kit” section of this manual. Some changes or adjustments may be necessary.

**Figure 9**

**Table 2. Standard Loading Guidelines**

Container	Vol Oz.	Material	Height (in.)	Dia	Product Retainer	Slot	Product Guide	Slot	Product Deflector	Small Dia Spacer	Back Spacer	Adjustment Plate
All Sport	20	Plastic	8 1/2	2.87	I	B-4	XII	B-5	VIII		IX/X	
Coke	20	Plastic	9	2.85	I	B-4	XII	B-5	VIII			
Crystal Clear	16.9	Plastic	8	2.56	I	A-4	XII	B-5	VIII	VII		4208382
Dr. Pepper	20	Plastic	8 7/8	2.89	I	B-4	XII	B-4	VIII			
Evian	16.9	Plastic	8 1/2	2.60	I	A-4	XII	B-5	VIII	VII		4208382
Fruitopia	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI			
Generic Sodas	20	Plastic	8	2.91	I	B-4	XII	B-5	VIII		IX/X	
Minute Maid	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI			
Mt. Dew	20	Plastic	8 9/16	2.85	I	B-4	XII	B-5	VIII			
Mystic	20	Glass	7 1/2	2.96	I	B-3	XII	B-5	XI			
Nestea	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI			
Pepsi	20	Plastic	8 9/16	2.85	I	B-4	XII	B-5	VIII			
Power Ade	20	Plastic	7 1/2	2.93	I	B-4	XII	B-5	VIII			4208382
Snapple	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI			
Sprite	20	Plastic	9	2.85	I	B-4	XII	B-5	VIII			

## Part Identification

Each part is stamped with a roman numeral for identification. Read the roman numeral with the hole located to the left. The following table is a cross reference for all the spacers and retainers.

**Table 3. Spacer and Retainer IDs**

#	Part #	Description
<b>I</b>	4207178-001	Outside Retainer
<b>II</b>	4207226-001	2" Spacer - Right
<b>III</b>	4207226-003	2" Spacer - Left
<b>IV</b>	4208219-001	Tapered Retainer
<b>V</b>	4208222-001	1" Spacer - Right
<b>VI</b>	4208222-003	1" Spacer - Left
<b>VII</b>	4208223-001	Small Diameter Spacer
<b>VIII</b>	4208310	Angled Deflector
<b>IX</b>	4208316-001	3/8" Spacer - Left
<b>X</b>	4208316-002	3/8" Spacer - Right
<b>XI</b>	4208320	Flat Deflector
<b>XII</b>	4208332-001	Inside Retainer
<b>XIII</b>	4208348	Can Retainer
<b>XIV</b>	4208349-001	1" Can Spacer - Right
<b>XV</b>	4208349-003	1" Can Spacer - Left
<b>XVI</b>	4208381	12 oz. Can Flat Deflector
<b>XVII</b>	4208383	Flexible Dia. Spacer
<b>XVIII</b>	4208936-001	9/16" Spacer – Rt.
<b>XIX</b>	4208935-001	Small Dia. Spacer
<b>XX</b>	4208934	Wide Flat Deflector
<b>XXI</b>	4208936-003	9/16" Spacer – Lt.

## Product Retainers and Guides

The side members in each column are adjustable forward or backward in one inch spacings. When adjusted properly they confine the product within the column. See **Figures 10 and 11**.

The Product Retainer is on the outside of the column and should be positioned as close to the “shoulder” of the container as possible. The Product Retainer should hold the container yet allow some movement from front to back.

The Product Guide is on the motor shaft side (inside) of the column. It should be positioned one space forward compared to the retainer. If the retainer can not be positioned close enough to the shoulder of the container, the guide can be adjusted to act as the retainer.

**Figure 10** shows the side member positions for different size containers. Place the shoulder rivets in the proper keyhole slots and pull down to secure the side member. When adjusted properly the container should move freely, yet minimally from side to side and front to back.

**Figure 10**

At least one product retainer should be used for each selection. If the diameter of the product being vended is too large, remove the side member from the inside or motor shaft side. Do not remove both retainers. See **Figure 11**.

Special side retainers are used to vend long tapered bottles and 12 oz. cans as shown in **Figure 11**. Refer to the “Special Vend Kits” section.

**Figure 11**

## Product Deflectors

The Product Deflector holds the neck of the bottle and allows the bottom of the bottle to fall first during a vend. It is mounted at the bottom of each compartment and allows a resting place for the mouth of the container.

Generally, if the mouth of the container rests outside the bottle rack the angled product deflector is used. If the mouth of the container rests within the compartment the flat product deflector is used.

When shipped from the factory, the angled product deflector will be installed. The flat product deflector will be located in the service packet. 12 ounce cans and other special containers require product deflectors which are included in kits. See **Figure 9**.

## Product (Back) Spacers

A Back Spacer may be required for a short container so that the mouth of the container rests on the product deflector. The back spacers are mounted to the back of the column and they position the product forward in the bottle rack. See **Figure 12**.

**Figure 12**

**Table 4. Back Spacers**

ID #	Part Number	Product Spacer	See Figure
<b>II</b>	4207226-001 (R)	2"	10
<b>III</b>	4207226-001 (L)		
<b>V</b>	4208222-001 (R)	1"	10 & 11
<b>VI</b>	4208222-003 (L)		
<b>XIV</b>	4208349-001 (R)	1"	11
<b>XV</b>	4208349-003 (L)		
<b>IX</b>	4208316-001 (L)	3/8"	11 & 12
<b>X</b>	4208316-002 (R)		
<b>XVIII</b>	4208936-001 (L)	9/16"	Not Shown
<b>XXI</b>	4208936-003 (R)		

## Small and Flexible Diameter Spacers

Narrow containers and some non-carbonated (flexible) containers may require a Small Diameter Spacer or Flexible Diameter Spacer to push the container towards the motor shaft. The spacer is mounted on the outside panel of the bottle rack, away from the motor shaft. The spacer is secured by placing the Shoulder Rivets in the keyhole slots on the bottle rack side and pulling downward. (See **Figures 10, 11, 13 & 14.**)

## Finger Adjustments

With the small diameter spacer, an Adjustment Plate can be mounted on the motor shaft to prevent puncturing of the container. During the vend the finger should clear bottom product while preventing the second product from vending. The adjustment plate should be positioned so the finger is just above the diameter of the bottom container. (See **Figure 13.**)

**Figure 13**

A Stationary Plate is available for flexible non-carbonated containers to prevent movement of the finger. It is installed below the finger and underneath the spring on the motor shaft. See **Figure 14**.

**Figure 14**

<b>NOTE:</b>
Installation and/or adjustments of the plate on the motor shaft will affect both columns in the bottle rack.

After adjustments are made test vend the selections to verify proper positioning of the components. Make sure when loading the vendor that the product being loaded coincides with the product being displayed in the live display and is properly identified.

**LIVE DISPLAY**

The Live Display provides a full view of the products being dispensed along with the price and selection number of each item. Place the display item with the product label in full view of the customer and secure in place with the elastic strap.

Use a special product spacer for small diameter products and cans. Set each price scroll to agree with

the price set at the host vendor. To access the price scrolls loosen the thumb screws at the top and bottom of the display and slide the display panel to the left. See **Figure 15**.

**Figure 15**

## SET PRICES

All pricing is controlled by the controller in the host machine and must be programmed into the controller's memory. The vend prices can only be programmed while in the *Service Mode*. Vend prices are programmed into the memory of the controller by using the selection keypad to input the commands or requirements. A vend price must be established for each selection.

To establish vend prices, follow the steps outlined in the Service Manual of the host machine.

Check prices of items programmed by pushing the selection numbers on the keypad on the host selection panel. The vend price will be flashed in the digital display.

### NOTE:

When establishing vend prices, make sure the price scrolls and the selection labels located in the live display area agree with the vend prices programmed into the controller.

## DROP SENSOR ADJUSTMENT

The delivery chute uses a drop (vibration) sensor to detect when a product is vended after a selection is made. The drop sensor detects when a product hits the delivery chute and sends a signal to the controller. The sensor is attached to the underneath side of the delivery chute.

When a selection is made on a dual-column selection and no signal is received from the sensor, the controller will try to vend that selection from the other column. If there is no signal from the sensor after the second attempt, the controller will put that selection in a "sold-out" condition, preventing future vends.

When a selection is made on a single column selection and no signal is received from the sensor the controller will put that selection in a sold-out status preventing future vends.

### NOTE:

To reset the sold-out status in the Satellite Vendor, the host machine must enter and exit the *Service Mode*.

If the drop sensor is not sensitive enough multiple vends and/or a sold-out condition can occur.

To adjust the sensitivity of the sensor:

1. Unplug the vendor at the power source.

### WARNING:

The power switch on the control board mounting bracket shuts off the power to the lights and control board only.

2. Open the door to the vendor.
3. Remove the two (2) screws on the front of the control board mounting bracket located in the bottom left corner of the cabinet.
4. Carefully work the control board mounting bracket assembly forward away from the refrigeration unit.
5. Locate the indicator light and adjustable potentiometer at the top of the control board.
6. Re-apply power to the vendor.
7. Adjust the potentiometer counter-clockwise until the indicator light comes on steady.
8. Slowly adjust the potentiometer clockwise just until the indicator light goes out.
9. Continue to adjust the potentiometer in the clockwise direction 3/4 of a revolution.
10. Test the sensor for proper operation by tapping the delivery chute. The indicator light will come on when the chute is tapped.

### NOTE:

Adjust the potentiometer in clockwise to make the sensor more sensitive.

11. Unplug the vendor and re-install the control board mounting bracket with the two (2) screws.

## REFRIGERATION SYSTEM

### Cold Control

For the recommended temperature for soft drinks of approximately 38°, set the cold control to 0.

Minor adjustment may be necessary at higher altitudes.

### NOTE:

Setting the cold control to a larger number will not cause drinks to cool faster; it could cause soft drinks to freeze.

## Troubleshooting

Know and understand how to service the unit and how it operates. Units may vary, but the operation is basically

the same. Never guess at the problem, find the symptom before attempting any repair.

**NOTE:**

Most refrigeration problems are electrical.

This system was not meant to be worked on outside the Factory Service Center. Three things that can go wrong with a sealed system and should be repaired at the Factory Service Center are:

- Low Charge - usually caused by leaks; look for oil around seals and welds. Unit will not seal properly.
- Restriction in Systems (unit frost, then melts) - not cooling properly, low side in vacuum
- Bad valves - unit does not cool properly; noisy compressor

**Compressor will not start**

Check to see if compressor has power:

1. Tripped breaker or blown fuse
2. Wall outlet faulty
3. Short or tear in power cord
4. Improper wiring

1. Faulty cold control

Unplug the power supply, remove screws from thermostat. Use a jumper wire, or place a screw through terminals; then restore power and check to see if the unit runs

**Compressor trips on Overload**

1. Improper voltage: 5-10% above, 5% below. Using the voltage section of the Multi-Meter, check the power source.
2. Overload defective:

**NOTE:**

Power must be off and fan circuit open.

Using the resistance section of the Multi-Meter, check terminals 1 and 3 for continuity. If no continuity is measured (infinity), overload may be tripped. Wait 10 minutes and try again. If still no continuity, overload is defective.

3. Relay defective: Test with Multi-Meter. (See Schematic 1.)
  - Unscrew lead terminals and remove relay from compressor. (NOTE: keep relay upright)
  - Check terminals 1 and S, or L and S. Replace relay if there is continuity.

**Schematic 1**

4. Check compressor (See **Schematic 1.**)  
Check winding resistance with the Multi-Meter. If readings are not within 2 Ohms, the compressor is faulty.

**Winding Resistance**

Approximate resistance reading across terminals -  
use RXI scale:

COMMON to START:	12 Ohms
COMMON to RUN:	2 Ohms
RUN to START:	14 Ohms
COMMON to SHELL:	No Continuity

**WARNING:**

Wiring diagrams must be followed as shown. Any deviation can cause serious electrical hazard and potential damage or rupture component electrical parts

5. Short in other component: Isolate and eliminate each electrical component until short is found.
6. Compressor is too hot
  - Dirty condenser
  - Faulty condenser motor or blade
  - Restricted air flow

**NOTE:**

Condenser must be kept clean of dirt and debris to allow for proper air circulation

**Noisy or vibrating unit**

1. Components rubbing or touching each other
  - Check fan blades and motor
  - Loose shrouds and harness
  - Copper tubing
  - Loose or unsecured parts
2. Worn or aged grommets
3. Compressor
  - Bad Valves
  - Slugging
  - Bad windings (See **Schematic 1.**)
- 4.

5. Relay frozen in start position (See **Schematic 1.**)

6. Low voltage

**Unit short cycles**

1. Differential set too close
2. Probe in wrong area (i.e., touching evaporator or other metal)

**Unit operates long or continuously**

1. Thermostat faulty
2. Air flow restricted
  - Faulty evaporator motor or blades causing coils to ice over
  - Air flow blocked by product in front of evaporator
3. Gasket leak
4. Excessive load: After loading, unit will run longer to pull out excessive heat from product.
5. Shortage of refrigerant or restriction

**Refrigerated space too warm**

Restricted evaporator space

1. Evaporator motor or blades faulty. This causes the coils to ice over the evaporator.
2. Condenser air flow restricted
  - Plugged or dirty condenser
  - Condenser motor or blades bad
  - Blade stuck
3. Condensing space restricted
  - Unit placed too close to a wall
4. Compressor - bad valves
  - Capillary tube will start frosting 8 to 10 inches past evaporator connection tube
  - Check for oil around brazed connections
5. Thermostat improperly set –normally set to 2.

## CARE & CLEANING

### CAUTION:

Always disconnect power source BEFORE cleaning.

### 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. Do not get the cleaning solution on electrical components.

### Cabinet Exterior

Wash with a mild detergent and water, rinse and dry thoroughly. Clean occasionally with a quality car wax. Remove and clean Condensate Drain Hose to eliminate any deposits that may restrict condensate water flow.

### Refrigeration System

Clean dust from condenser and screen in the front door with a soft bristle brush or a vacuum cleaner. Remove any dirt or debris from the refrigeration system compartment. If the condenser coil is not kept clean, the compressor will overheat or fail, voiding the sealed system warranty. Clean the condensation pan.

## PARTS ORDERING PROCEDURE

When ordering parts, include the following:

1. Shipping address
2. Address where the invoice should be sent.
3. The number of parts required.
4. Always refer to the pertinent parts and/or part manual for the correct part number and description of a specific part  
When "RIGHT" or "LEFT" is used in connection with the name of a part, it is taken to mean that the person is facing the machine with the door closed.
5. The model number and serial numbers of the machine for which the parts are needed.
6. Any special shipping instructions.
7. Carrier desired: air or air special, truck, parcel post or rail.
8. Signature and date.
9. Purchase order number, if used.
10. Mail your order to

**VendNet™**  
**P. O. Box 488**  
**165 North 10th Street**  
**Waukee, IA 50263-0488**

All orders are carefully packed and inspected prior to shipment. Damage incurred during shipment should be reported at once and a claim filed with the terminating carrier.

If you do not have the right parts manual: contact VendNet™. They will be able to assist you.

Use the most accurate description you can (and the model number and serial number of the machine); include the name of the assembly in which the part is used and, if practical, a sample part. Furnish any information which will enable our Parts Department to pinpoint the exact part needed.

**For additional information phone: 1-800-833-4411**

**Or E-Mail: [VendNet@Ecity.net](mailto:VendNet@Ecity.net)**

Include model number and serial number

## BEFORE CALLING FOR SERVICE

Check the following:

1. Does your machine have at least 6" of clear air space behind it?
2. If the power is turned off at the fuse box is the machine the only thing that doesn't work?
3. Is the machine plugged directly into the wall outlet?
4. Is the evaporator coil free of ice?
5. Is the condenser coil free of dust and dirt?
6. Is the compressor free of dust? (A blanket of dust can prevent the compressor from cooling off between workouts.)
7. Has the circuit breaker in the fuse box been reset?
8. Is the cold control set at 2 or 3?
9. Are the evaporator fans running?  
Fold a sheet of 8 1/2 x 11 paper in half from top to bottom so it is now 8 1/2 by 5 1/2. Place the paper in front of the evaporator coil and see if the evaporator fans will blow the paper away.
10. Is the condenser fan running?  
Fold a sheet of 8 1/2 x 11 paper in half. Place the paper in front of the condenser coils, and see if it draws the paper to the coils.
11. Is the shelf in front of the evaporator coil clear? (Free of cans, tools or other air restricting items)

## SPECIAL VEND KITS

Variations or adjustments of the spacers, retainers, deflectors, etc. will be required to successfully vend additional products from the bottle vendor. The following is a list of the kits available from your distributor or manufacturer to vend special products:

**Table 5. Special Vend Kits**

Kit Number	Description of Vend Product
1200137-287	Long Tapered Product
1200137-288	12 Oz. Can
1200137-289	20 Oz. Flexible Plastic
1200137-290	11 Oz. Flexible Plastic
1200137-291	Short Tapered Bottle
1200137-295	16 Oz. Flexible Plastic
1200137-297	16 Oz. Short Flexible Plastic
1200137-322	10 Oz. Contoured Bottle - Glass
1200137-323	8 Oz. Short Flexible Bottle - Plastic

Each part is stamped with a roman numeral for identification. Read the roman numeral with the punched hole located to the left.

**Table 6. Spacer and Retainer IDs**

#	Part #	Description
<b>I</b>	4207178-001	Outside Retainer
<b>II</b>	4207226-001	2" Spacer - Right
<b>III</b>	4207226-003	2" Spacer - Left
<b>IV</b>	4208219-001	Tapered Retainer
<b>V</b>	4208222-001	1" Product Spacer - Right
<b>VI</b>	4208222-003	1" Product Spacer - Left
<b>VII</b>	4208223-001	Small Diameter Spacer
<b>VIII</b>	4208310	Angled Deflector
<b>IX</b>	4208316-001	3/8" Spacer - Left
<b>X</b>	4208316-002	3/8" Spacer - Right
<b>XI</b>	4208320	Flat Deflector
<b>XII</b>	4208332-001	Inside Retainer
<b>XIII</b>	4208348	Can Retainer
<b>XIV</b>	4208349-001	1" Can Spacer - Right
<b>XV</b>	4208349-003	1" Can Spacer - Left
<b>XVI</b>	4208381	12 oz. Can Flat Deflector
<b>XVII</b>	4208383	Flexible Dia. Spacer
<b>XVIII</b>	4208936-001	9/16" Spacer - Right
<b>XIX</b>	4208935-001	Small Dia. Spacer
<b>XX</b>	4208934	Wide Flat Deflector
<b>XXI</b>	4208936-003	9/16" Spacer - Left

Table 7 indicates the parts required to load various products. If the product desired is not listed, contact your local distributor for additional information. See Figure 16 for slot location.

The loading instruction table is only a general guideline. Some changes or adjustments may be necessary.

Refer to illustrations and sections throughout the manual for adjustments and functions of various components. Kits will include illustrations and adjustments required for specific containers.

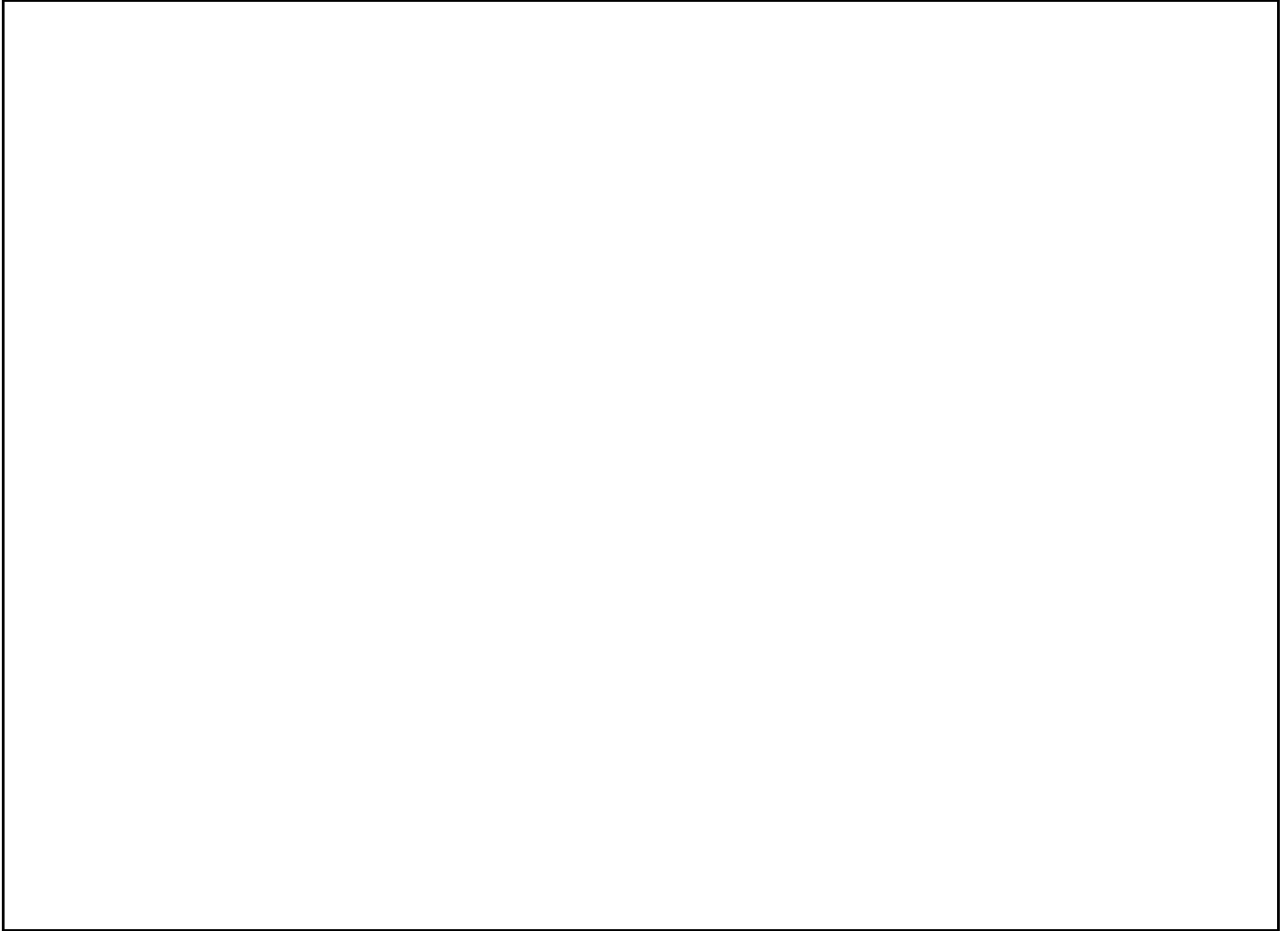
Figure 16

Table 7. Loading Guidelines

Container	Vol Oz.	Material	Height	Dia	Product Retainer	Slot	Product Guide	Slot	Product Deflector	Small Dia Spacer	Back Spacer	Adjustment Plate	Special Kit No.
All Sport	20	Plastic	8 1/2	2.87	I	B-4	XII	B-5	VIII		IX/X		
Clearly Canadian	11	Glass	7 3/4	2.83	IV	B-3	IV	B-3	XI		V/VI		1200137-287
Coke	20	Plastic	9	2.85	I	B-4	XII	B-5	VIII				
Crystal Clear	16.9	Plastic	8	2.56	I	A-4	XII	B-5	VIII	VII		4208382	
Dole	10	Glass	5 3/4	2.56	IV	A-3	IV	B-4	XI	VII	II/III		1200137-291
Dr Pepper	20	Plastic	8 7/8	2.89	I	B-4	XII	B-4	VIII				
Evian	16.9	Plastic	8 1/2	2.60	I	A-4	XII	B-5	VIII	VII		4208382	
Evian	11.2	Plastic	6 1/2	2.45	IV	B-4	IV	B-4	VIII	VII	V/VI	4208382	1200137-290
Fruitopia	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI				
Gatorade	20	Plastic	9	2.86	IV	A-4	XII	B-5	VIII	XVII		4208382	1200137-289
Generic Sodas	20	Plastic	8	2.91	I	B-4	XII	B-5	VIII		IX/X		
Minute Maid	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI				
Mt. Dew	20	Plastic	8 9/16	2.85	I	B-4	XII	B-5	VIII				
Mystic	20	Glass	7 1/2	2.96	I	B-3	XII	B-5	XI				
Nestea	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI				
Ozarka	16.9	Plastic	8	2.56	IV	B-4	IV	B-3	VIII	VII		4208382	1200137-295
Pepsi	20	Plastic	8 9/16	2.85	I	B-4	XII	B-5	VIII				
Power Ade	20	Plastic	7 1/2	2.93	I	B-4	XII	B-5	VIII			4208382	
Snapple	16	Glass	6 7/8	2.88	I	B-3	XII	B-4	XI				
Soda	12	Can	4.9	2.61	XIII	B-4			XVI	XVII	XIV/XV	4208220	1200137-288
Sprite	20	Plastic	9	2.85	I	B-4	XII	B-5	VIII				
Tropicana Twister	10	Glass	6	2.60	IV	B-3	IV	B-4	XI	VII	II/III		1200137-291
V-8	10	Glass	5 3/4	2.59	IV	A-3	IV	B-4	XI	VII	II/III		1200137-291
Veryfine	8	Plastic	5-5/8	2.29	IV	B-3	IV	B-3	XX	XIX	V/VI	4208220	1200137-323
Veryfine	16	Plastic	7 1/4	2.79	IV	C-4	I	B-4	VIII	XVII	V/VI	4208382	1200137-297
Veryfine	10	Glass	5 7/8	2.61	IV	B-3	XII	B-3	XX	VII	XVII/XXI		1200137-322
Welches	10	Glass	5 7/8	2.61	IV	B-4	IV	B-4	XI	VII	II/III		1200137-291

= Parts Included In Basic Vendor

**WIRING DIAGRAM - SNACK MART HOST**



**WIRING DIAGRAM - SATELLITE CAN/BOTTLE VENDOR**

