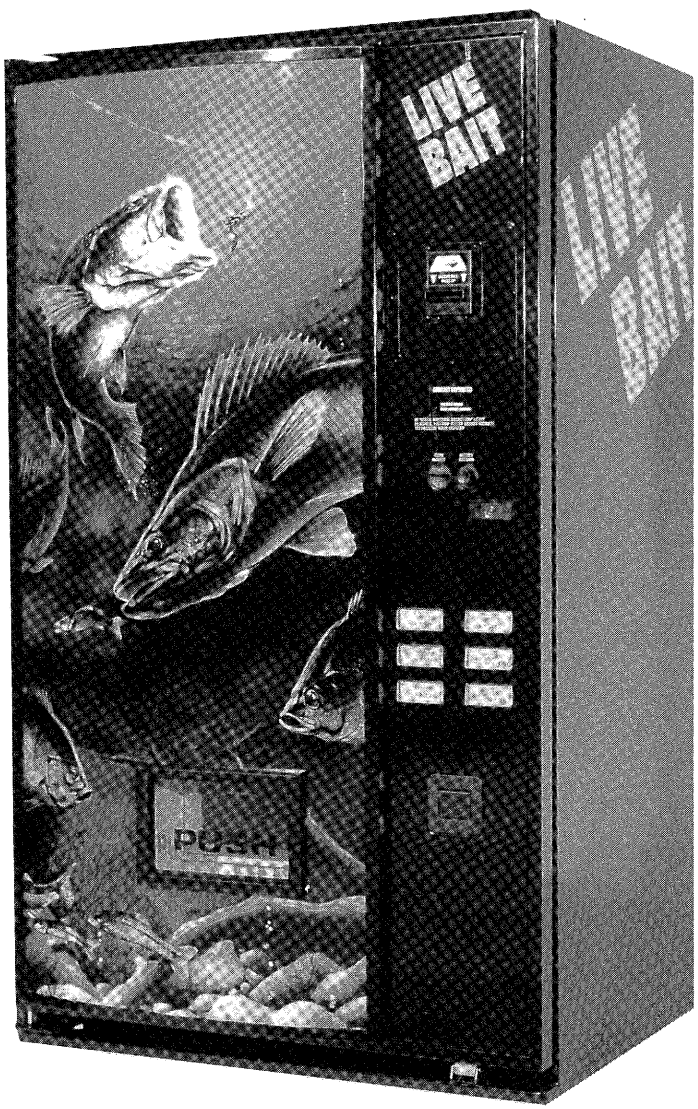
Number One In Quality

BAIT VENDOR

MODEL: 3037-BAITA



SERVICE MANUAL

May 2001

P/N 4207449
Rev. E

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SEE ADDENDUM – PAGE 17 & 18

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 installation and programming instructions for the **Model 3037-BAITA** vendor. This is a six (6) select vendor, designed to dispense live bait, such as minnows and worms, prepackaged in Styrofoam containers. The products are stored in fourteen (14) serpentine-type columns, easily loaded. Fourteen vend motors are controlled by six selection buttons. Product is vended on a "first-in, first-out" principle assuring proper rotation of inventory.

The vend mechanism is a 24-volt motor-driven dual cam arrangement. The front cam holds the product to be dispensed at the "vend position", releasing it to the delivery area during the vend cycle. The rear cam advances into the path of the products, in front of the second container, holding the remainder of the products back until the vend cycle is complete. At the end of the vend cycle, the next container is released to the vend position, awaiting the next transaction.

Each selection can be priced individually, with vend prices ranging from $.05 to $99.95 in five cent increments. The controller monitors electrical functions during each vend and any malfunctions (faulty motors, etc.) detected by the controller will be recorded in memory and the operation of any defective motor will be disabled. Individual motors determined to be inoperative will not affect the operation of the remaining motors.

SPECIFICATIONS

General

Height:	72 inches
Width:	42 inches
Depth:	33 1/2 inches
Weight:	765 pounds

Electrical

115 Volt, 60 Hertz, 9 Amps

Coin Mechanism

Coinco 9302-L Coin Mech

Dollar Bill Validator

Coinco BA32SA 24 Volt $1 & $5

Refrigeration

1/3 Horsepower
CFC Free Refrigerant - R-134a
Charge - 7.5 Ounces
Temperature Control from 36° to 50°F

Capacity

Six Selections
147 Containers
Convenient pre-cool storage area

UNPACKING

To minimize installation time and to avoid service problems due to improper installation, follow the instructions outlined in this manual.

This machine has been thoroughly inspected before leaving the factory and 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.

Carefully remove the outside packaging material in a manner not to damage the finish or exterior of the machine. Inspect the machine for concealed shipping damage. Report any damage hidden by the packaging material directly to the delivering carrier on a hidden damage report.

Record the model number and serial number of the vendor for your records. These numbers can be found on the Serial Plate located on the rear of the cabinet and/or inside the vendor. Refer to these numbers on all correspondence and inquiries pertaining to this vendor.

To remove the machine from the shipping pallet, place a 2 x 4 under the vendor, inserting a screwdriver or prying tool into the groove of the "knock-a-way", and splitting it in two. (See **Figure 1.)** Turn the leveling screws in as far as possible.

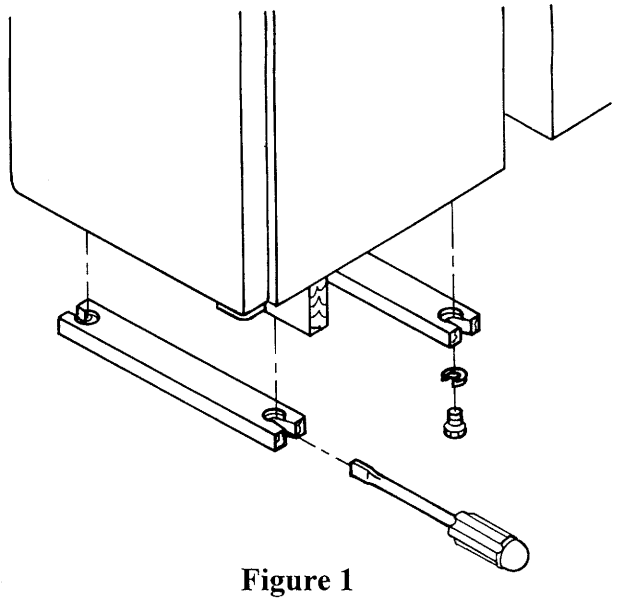


Figure 1

Position the vendor in its place of operation, no further than 4 feet from the power outlet or receptacle and check that the door will open fully without interference. Leave at least six (6) inches of space between the back of the machine and any wall or obstruction for proper air circulation.

Level the vendor, making sure all levelers are touching the floor. The vendor must be level for 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 that the vendor is level.

Open the outer door and remove all internal packing material. The keys to the vendor are located in the coin return cup.

WARNING:

Do not block the ventilation openings in the front or back of the vendor. Always allow free ventilation so that exhaust air is not trapped. Failure to do so could result in a refrigeration failure.

INSTALLATION

Consult local, state and federal codes and regulations before installation of the vendor.

For proper operation of equipment utilizing electronically controlled components, it is recommended that the equipment be placed on an isolated or dedicated circuit, properly polarized and grounded.

The circuit should be a minimum 20 Amp, 115 Volt AC, 60 cycle power source

WARNING:

Do not operate this vendor on an extension cord.

Figure 2 shows a properly grounded and polarized three-wire grounding type wall outlet.

NOTE:

The **hot** (or line) terminal of the outlet should always be counter-clockwise from the **ground** terminal. The **neutral** terminal will be clockwise from the **ground** terminal.

- **Voltage Check:** With a Multi-Meter set to check AC line voltage, insert one connector to the hot terminal and the other connector to the neutral terminal. The Multi-Meter should indicate 103-126 VAC.

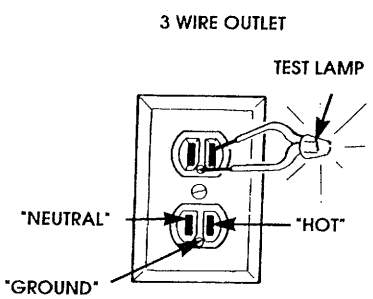


Figure 2

- **Polarity and Ground Check:** With a Multi-Meter set to check AC line voltage, insert one connector to the hot terminal and the other connector to the ground terminal. The Multi-Meter should indicate 103-126 VAC.
- **Amperage Check:** At the fuse box or circuit breaker panel, locate the proper circuit, and ensure that the amperage reading of the fuse or breaker protecting the circuit is at least 20 amp.

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.

Plug in the vendor and turn on the power switch, located in the lower left-hand corner of the inside cabinet.

- The display lights will come on.
- "USE CORRECT CHANGE" LED will light.
- "MAKE ANOTHER SELECTION" LED will light.
- Validator stacker, if so equipped, will cycle.
- The evaporator motors will run.
- Depending on ambient temperature, either the heater (if installed as an option) or the refrigerator unit will run for three minutes.
- **.00** will display.

PRODUCT LABEL INSTALLATION

Place product identification labels indicating the type of products available to the customer inside the selection buttons.

Open the vendor and separate the inner and outer doors. On the back side of the outer door, open the coin mechanism door by sliding the latch at the top to the right. Insert the Product Label into the pocket provided as shown in **Figure 3.**

Make sure the label agrees with the product loaded in the serpentine columns. See the "Loading Instructions" section for capacities and motor assignment.

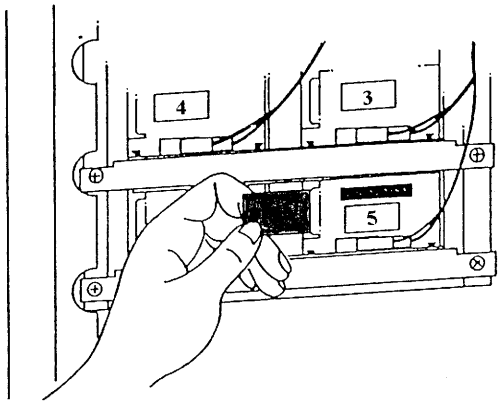


Figure 3

LOADING INSTRUCTIONS

There are fourteen (14) compartments that hold the product for the six (6) available selections.

Table 1 indicates the motors that run when a selection button is pressed.

Table 1. Motor Assignment

Selection Button	Columns/ Motors	Capacity
1	1, 2, & 3	33
2	4, 5, & 6	30
3	7 & 8	21
4	9 & 10	21
5	11 & 12	21
6	13 & 14	21

Each column inside the vendor is identified with the motor number.

Make sure that product label placed in the selection button agrees with the product loaded in the columns.

Table 2. Loading Area by Selection Button

LOADING AREA						
2	4	6	8	10	12	14
1	3	5	7	9	11	13

NOTE:

Load lighter products in the center columns (7 & 8 or 9 & 10) to insure proper movement through the serpentine.

COIN MECHANISM

CAUTION:

Do not plug or unplug the coin mechanism with the power on.

When customers insert coins, they are stored in self-loading, high-capacity change tubes. Coins returned on over-deposit will be the fewest number of available coins. When the change tubes become full, additional coins are routed to the cash box.

The coin mechanism has been preset at the factory:

- Canadian coins are rejected.
- When the quarter tube is full, quarters are diverted to the coin box.

NOTE:

An ample supply of quarters is needed in order to give change for $1 and $5 bills.

- Dollar coins are rejected.

Manually load the coin mechanism with nickels, dimes and quarters through the slots at the top of each change tube. See **Figure 4.**

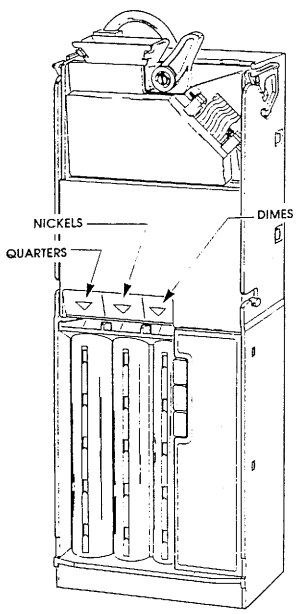


Figure 4

When adequate nickels have been loaded to cover the low-level sensors in the nickel tube, the "USE CORRECT CHANGE" LED will go off.

To empty the coins stored in the change tubes, push the Service Mode Button two times. **CPO** displays.

- Press selection button 1 to dispense nickels.
- Press selection button 2 to dispense dimes.
- Press selection button 3 to dispense quarters.

NOTE:

The coin mechanism must have a minimum of nickels and quarters to allow the Dollar Bill Validator to function.

Table 3. Coin Tube Capacity

Nickel	68-69
Dime	98-99
Quarter	66-67

BILL VALIDATOR

The bill validator has been preset at the factory:

- Standard security bill acceptance.
- Bills accepted in both directions (face up).
- Pulse interface the control board.
- Rejects $20 bills.
- Rejects $10 bills.
- Accepts $1, $2, and $5 billls.

NOTE:

If the coin mechanism does not have adequate change for pay-back, the bill validator will not accept bills.

Removing Accepted Bills

Accepted bills may be removed by opening the bill box or by removing the bill box from the validator. (See **Figure 5.)**

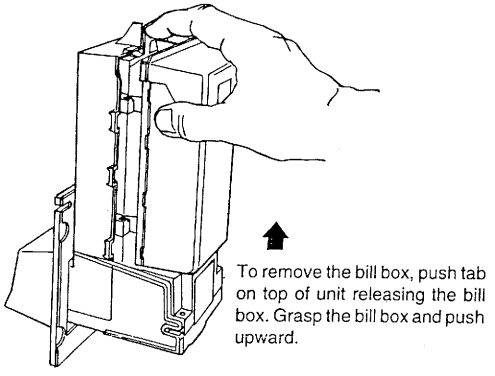


Figure 5

NOTE:

If the bill box is removed, make sure it is fully latched in place when returned to the validator.

Troubleshooting

Troubleshoot the validator by reading flashes (blinks) of light from the (red) LED located on the side of the logic board cover. See **Table 4.**

Table 4. Validator Diagnostic Codes

No. Of Flashes	Description of Diagnostic Codes
None	Check Power and Harnessing to Validator
1	Bill Box Full
2	Bill Box Lid is open or not latched in place.
3	Check Bill Path
4	All Bill Accept Switches are Off
5	Bill Jam or Sensor Error
6 or more	Reset (Remove and Apply Power) or service required.

These flashes can be seen through the gray smoked cover. (See **Figure 6.)** During normal operation the LED will be a steady (constant) red.

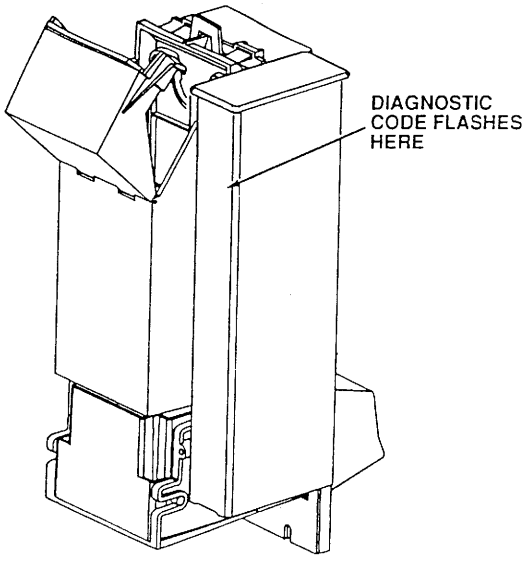


Figure 6

Clearing Jams & Cleaning

Trapped bills, debris or dirt can result in poor bill acceptance or bill rejection. Remove the lower housing to clear trapped bills or debris. See **Figure 7**. Clean the bill path plastic parts or belts with a cloth moistened with a mild soap and water solution. Clean the magnetic head and optic sensors using a swab and isopropyl alcohol.

CAUTION:

Do not use any petroleum-based cleaning solvents, scouring pads or stiff brushes for cleaning.

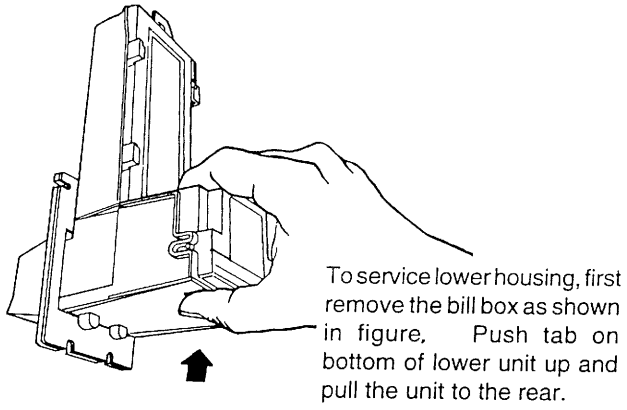


Figure 7

PRICE SETTING INSTRUCTIONS

A vend price must be established for each selection. To change a price the controller must be in the *Service Mode.*

1. Open the vendor and separate the inner and outer doors.
2. Locate the Service Mode Button on the inside upper portion of the outer door. See **Figure 8.**

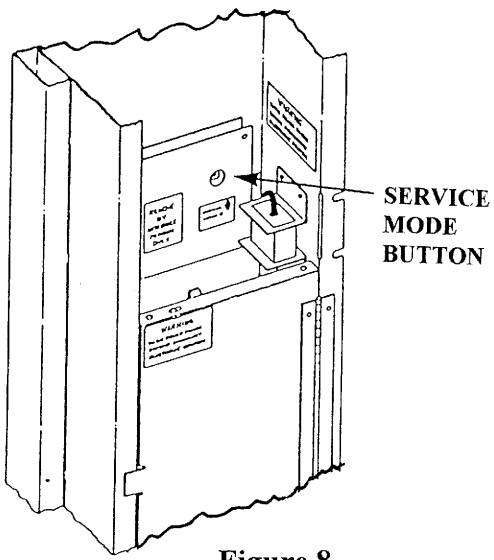


Figure 8

3. Push the Service Mode Button <u>five (5) times</u>. **SPr** displays.
4. Push the selection button of the item to be priced. See **Figure 9**. The current vend price for that selection displays.

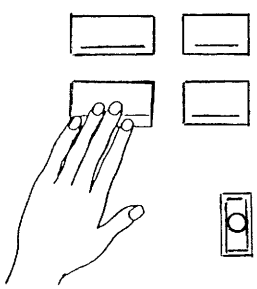


Figure 9

<u>To increase the vend price</u>: press and hold the same selection button a second time. The vend price increases by 5¢ every half second as long as the button is held pressed.

<u>To decrease the vend price</u>: press the same selection button a third time. The vend price decreases by 5¢ every half second as long as the button is held pressed.

5. Pressing the same selection button will toggle between <u>increasing</u> and <u>decreasing</u> the vend price of that selection.
6. When the desired vend price for that selection appears in the display, go to the next selection.
7. When the last vend price has been set, push any other selection button one time.
8. Press the Service Mode Button, or allow the controller to "time-out" in approximately 20 seconds.

Setting the vend price to **.00** starts "Free Vend". No money is required to dispense the product.

NOTE:

Make sure that the vend price is correct for each selection. Make sure that the price, product label and product loaded in the serpentine columns agree.

INSTALLATION CHECK LIST

1. All shipping brackets, packing material and tape have been removed.
2. The vendor is level from front to back and right to left.
3. The dedicated power outlet is properly polarized and grounded.
4. Coin mechanism payout tubes have been properly loaded.
5. All vend prices have been set correctly.
6. The vendor has been properly loaded and all items in each selection corresponds with the label and vend price.

SERVICE MODE

To program the vendor, you must be in the *Service Mode.* Eight different functions can be performed in the *Service Mode*:

1. Motor Count
2. Dispense Coins
3. Test Vend Single Selection
4. Test Vend All Selections
5. Set Vend Prices
6. Options
   - Force Vend
   - Bill Escrow
   - Multi Vend
7. Total Cash Sales
8. Total Vend Count

The vendor is in *Sales Mode* when **.00** displays.

To enter the *Service Mode,* press the Service Mode Button on the control board inside the door the specified number of times.

To exit the *Service Mode*, press the Service Mode Button, or the controller will automatically exit in approximately 20 seconds if no buttons are pressed during that time. **.00** displays.

Motor Count

Press the Service Mode Button one time. One of the following displays:

2-digit number, not flashing: Indicates the number of functional motors. (Should be 14.)

5-xx, flashing: selection button number "xx" is stuck in the "ON" position.

NOTE:

The *Service Mode* will not operate properly until the stuck button has been corrected.

Dispense Coins

Press the Service Mode Button two times. **CPO** displays. To remove coins from the coin mechanism:

- Press selection button 1 to dispense nickels
- Press selection button 2 to dispense dimes
- Press selection button 3 to dispense quarters

Table 5. Programming Instructions

Mode	Press *Service Mode* Button	Displays	Explanation
Motor Count	1 time	**xx** or **5-xx**	where **xx** is number of functional motors where **xx** indicates selection button **xx** is stuck "on"
Dispense Coins	2 times	**CPO**	Press selection button 1 to dispense nickels Press selection button 2 to dispense dimes Press selection button 3 to dispense quarters
Test Vend Single Selection	3 times	**dtS**	Press a selection button to run the corresponding motor Displays **DTS** if motor is operative Displays **FAIL** if motor is inoperative
Test Vend All Selections	4 times	**dtA**	Press a selection button to run all motors in sequence Displays **DTA** if motor is operative Displays **FAIL** if motor is inoperative
Set Vend Prices	5 times	**SPr**	Press a selection button to display current vend price Press once and hold to increase Press twice and hold to decrease
Options	6 times	**OPt**	Press selection button 1 to scroll through settings Press selection button 2 to toggle an option
		1-1 or **1-0**	Force Vend "ON" or Force Vend "OFF"
		2-1 or **2-0**	Bill Escrow "ON" or Bill Escrow "OFF"
		3-1 or **3-0**	Multi-Vend "ON" or Multi-Vend "OFF"
Total Cash Sales	7 times	**xx** then **yyyy**	The display will flash 2 digits then 4 digits Example: **02 -- 316.80** indicates $2,316.80 total cash sales
Total Vend Count	8 times	**xx** then **yyyy**	The display will flash 2 digits then 4 digits Example**: 04 -- 9150** indicates 49,150 total vends

Test Vend Single Selection

Press the Service Mode Button three times. **dtS** displays. Press a selection button to run the corresponding motor.

NOTE:

To test motor 3, because motors 1, 2, and 3 are assigned to selection button 1, you might need to press selection button 1 three times.

Test Vend All Selections

Press the Service Mode Button four times. **dtA** displays. Press any selection button.

The motors will run in sequence, starting with motor 1. As they run, the motor number displays.

The top columns are dispensed by the even-numbered motors. The lower columns are dispensed by the odd-numbered motors.

MOTOR CONFIGURATION						
1	3	5	7	9	11	13
2	4	6	8	10	12	14

To insure fresh product in the vend area, motors assigned to a selection button run sequentially.

EXAMPLE:

When selection button 1 is first pressed, motor number 1 will run. When selection button 1 is next pressed, motor number 2 will run, and so on.

Set Vend Prices

Press the Service Mode Button five times. **SPr** displays. Press the selection button for the price to set.

- Press and hold the same selection button to increase the price.
- Press twice and hold the same selection button to decrease the price.

Setting the vend price to **.00** will vend that product for free when the machine is in the *Sales Mode*.

NOTE:

Make sure that the vend price is correct for each selection. Make sure that the price, product label and product loaded in each serpentine column agrees.

Vend prices can be verified by pressing the selection button while the vendor is in the *Sales Mode*.

Options

Press the Service Mode Button six times. **OPt** displays. Press selection button 1 to scroll through the three available options.

Force Vend Option

Press selection button 2 to toggle this option.

Displays **1-1** (ON): the customer must make a purchase when a dollar bill is inserted. This mode overrides the "Coin Return" command. Return of coins is not affected.

Displays **1-0** (OFF): Coin change is returned from a dollar bill insertion when the coin return button is pressed. A purchase is not necessary.

NOTE:

If Force Vend = OFF, the vendor can be used as a change machine, possibly draining your reserve of coins.

Bill Escrow

Press selection button 2 to toggle this option.

Displays **2-1** (ON): The last inserted bill is returned to the customer when the coin return button is pressed.

Displays **2-0** (OFF): The customer will receive change from a dollar bill insertion when the coin return button is pressed. A purchase is not necessary.

NOTE:

If Force Vend = ON, a purchase has to be made on a dollar bill insertion. The "Coin Return" feature has been disabled.

Multi Vend

Press selection button 2 to toggle this option.

Displays **3-1** (ON): Multiple vends can be selected as long as adequate credit is available. To receive change, the "Coin Return" button must be pushed.

Displays **3-0** (OFF): Change will be returned immediately each time a vend is completed if the established credit exceeds the vend price.

Total Cash

Press the Service Mode Button seven times. The display will flash 2 numbers and then 5 numbers.

EXAMPLE:

02 then **316.80:** a total of $2316.80 has been accumulated in the vendor.

Total Vends

Press the Service Mode Button eight times. The display will flash 2 numbers and then 4 numbers.

EXAMPLE:

04 then **9150:** a total of 49,150 vends have been made through the vendor.

VEND SEQUENCE

Adequate credit must be inserted to equal or exceed the vend price of the product.

Desired item is selected by pressing the proper selection button.

1. At the beginning of the vend cycle, the inner vend door motor (motor number 16) runs 1/2 cycle and stops: the inner vend port door is held open.
2. Selected vend motor runs 1/2 cycle and pauses for 5 seconds, allowing time for any slow-moving product to clear the vend area. Large cam on the ejector mechanism rotates 180°, allowing the product in the vend area to drop.
3. Vibrator motor (motor number 15) runs for 5 seconds to help move lighter containers through the serpentine track.
4. The selected vend motor finishes its cycle.
5. After a 2 second pause, the inner vend door motor (motor number 16) finishes its cycle, closing the inner vend door. If the outer vend door is held open, there should be an 8 second pause before running the vend door motor closing the inner vend door.
6. At the end of the vend cycle the vibrator motor (motor number 15) runs for 5 seconds, unless another vend is attempted immediately.
7. Machine is returned to *Sales Mode*.

TEMPERATURE CONTROL

The environmental temperature controller regulates the temperature inside the vending machine. The controller samples the air temperature once each second and activates or deactivates temperature control devices (such as the refrigeration compressor or the optional heater) to regulate the temperature at an optimal set point.

There are three temperature settings, corresponding to three switch positions on the controller board. See **Table 6.**

Table 6. Temperature Settings

Temp Range	Switch Position	Temp
Low	Left	39°F
Standard	Center	44°F
High	Right	54°F

The set point temperatures are pre-programmed into the controller and are not adjustable.

Operation

At the initial power up or reset, the temperature controller will pause for approximately three minutes before activating any of the temperature devices. During this period the controller goes through a calibrating sequence, sampling and averaging the temperature and monitoring the controller inputs.

After the initial three minute pause the controller will compare the average temperature to the pre-programmed set points and enter one of following modes:

Cooling Mode: If the average temperature is greater than the refrigeration ON set point, the refrigeration will be activated.

Heating Mode (if installed as an option): If the average temperature is less than the heater ON set point the heater will be activated.

If the average temperature is between these set points, the controller will continue to sample the temperature.

Table 7. Set Points

	Refrig		Heater	
Temp Range	**ON**	**OFF**	**ON**	**OFF**
Low	43	35	40	32
Standard	48	40	45	37
High	58	50	55	47

Defrost Mode: When in the cooling mode, the controller monitors the time elapsed while attempting to reach the refrigeration OFF temperature. If this time ever exceeds two hours, the controller will enter a "defrost mode". The refrigeration is deactivated for fifteen minutes and then reinstated. The defrost mode allows the refrigeration to shed any ice that may have formed on the evaporator.

Status LEDs

The three LEDs on the lower right of the inside cabinet provide visual verification of the status of the temperature controller.

- The green LED lights when the controller is in the cooling mode.
- The red LED lights when the controller is in the heating mode, if optional heater installed.
- The yellow LED indicates operating status:

  Yellow LED blinking with the on time equal to the off time: indicates normal operating mode.

  Yellow LED blinking two on and then off, two on and then off: indicates the refrigeration is in a defrost cycle. This mode is entered if the refrigeration unit has been on for more than two hours continuously. This mode will be exited automatically after a defrost period of 15 minutes.

  Yellow LED not blinking at all: indicates the temperature sensor may be defective or the controller may not be able to perform a temperature and/or calibration conversion cycle. See the "Refrigeration Trouble-shooting" section of this manual.

REFRIGERATION 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 in the field. 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
5. Faulty temperature control board: bad relay

Compressor trips on Overload

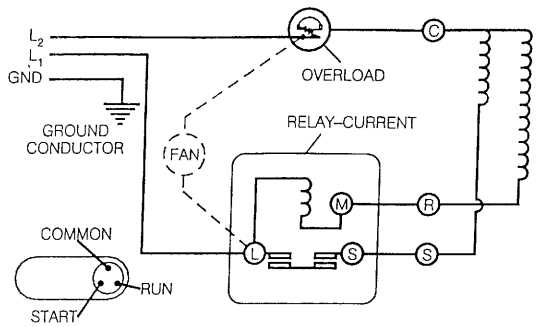
1. Improper voltage: Should be within 5-10% above, 5% below. Using the voltage section of the Multi-Meter, check the power source.
2. Overload defective:

NOTE:
Power must be off and fan circuit open.

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

3. Compressor Start Relay defective: Test with Multi-Meter. (See **Schematic 1.**)

- Unscrew lead terminals and remove relay from compressor. 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. Use the RXI scale.

Winding Resistance

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

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 fan 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. Compressor Start Relay frozen in start position (See **Schematic 1.**)
5. Low voltage

Unit short cycles

1. Sensor in wrong area (i.e., touching evaporator or other metal)
2. Defective temperature controller board

Unit operates long or continuously

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

Refrigerated space too warm

1. Temperature switch on controller board set incorrectly. See "Temperature Control" section of this manual.
2. Restricted evaporator space
3. Evaporator fan motor or blades faulty. This causes the coils to ice over the evaporator.
4. Condenser air flow restricted
   - Plugged or dirty condenser
   - Condenser fan motor or blades bad
   - Blade stuck
4. Condensing space restricted
   - Unit placed too close to a wall
5. Compressor - bad valves
   - Capillary tube will start frosting 8 to 10 inches past evaporator connection tube
   - Check for oil around brazed connections

Refrigerated space too cold

1. Outside temperature is cold and the heater (installed as an option) is not working.
2. Temperature switch on controller board set incorrectly. See "Temperature Control" section of this manual.
3. Defective temperature sensor.

   Check resistance: a "short" or "open" could indicate a defective sensor.

NOTE:

Measure the resistance of the temperature sensor with the power off and the connector to J1 removed from the temperature controller board.

A. Turn off power switch.

B. Locate the thermistor assembly: reach behind lower storage shelf, through the hole, and grasp the thermistor harness.

C. Unplug the harness.

D. Using a Multi-Meter set to Ohms (Ω), touch one probe to pin 1 and the other to pin 2 on the thermistor harness.

   At a temperature of 77°F (25°C) the resistance should measure 10,000 Ohms (10kΩ).

   - If the temperature is warmer, the resistance will be lower.
   - If the temperature is cooler, the resistance will be higher.

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. The model number and serial number of the machines.
5. Any special shipping instructions.
6. Carrier desired: air or air special, truck, parcel post, or rail.
7. Signature and date.
8. If a purchase order number is used, be sure that it is legible and visible.
9. Correct part number and description from the pertinent part and/or parts manual.

NOTE:

When "Right" and "Left" are used with a part name, it is taken to mean that the person is facing the machine with the door closed.

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 the above address. They will provide a copy for you, if available.

Do not wait to order until you receive the parts manual; instead use the most accurate description you can. Include the model number and serial number of the machine, the name of the assembly in which the part is used, and if practical, a sample part. Furnish any information to enable our Parts Department to pinpoint the exact part needed.

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?

CAUTION:

Extension cords invite trouble! Do not use them.

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 been reset?
8. Are the evaporator fans running?

   Fold a sheet of 8 ½" x 11" paper in half from top to bottom so it is now 8 ½" by 5 ½". Place the paper in front of the evaporator coil and see if the evaporator fans blow the paper away from the coil.
9. Is the condenser fan running?

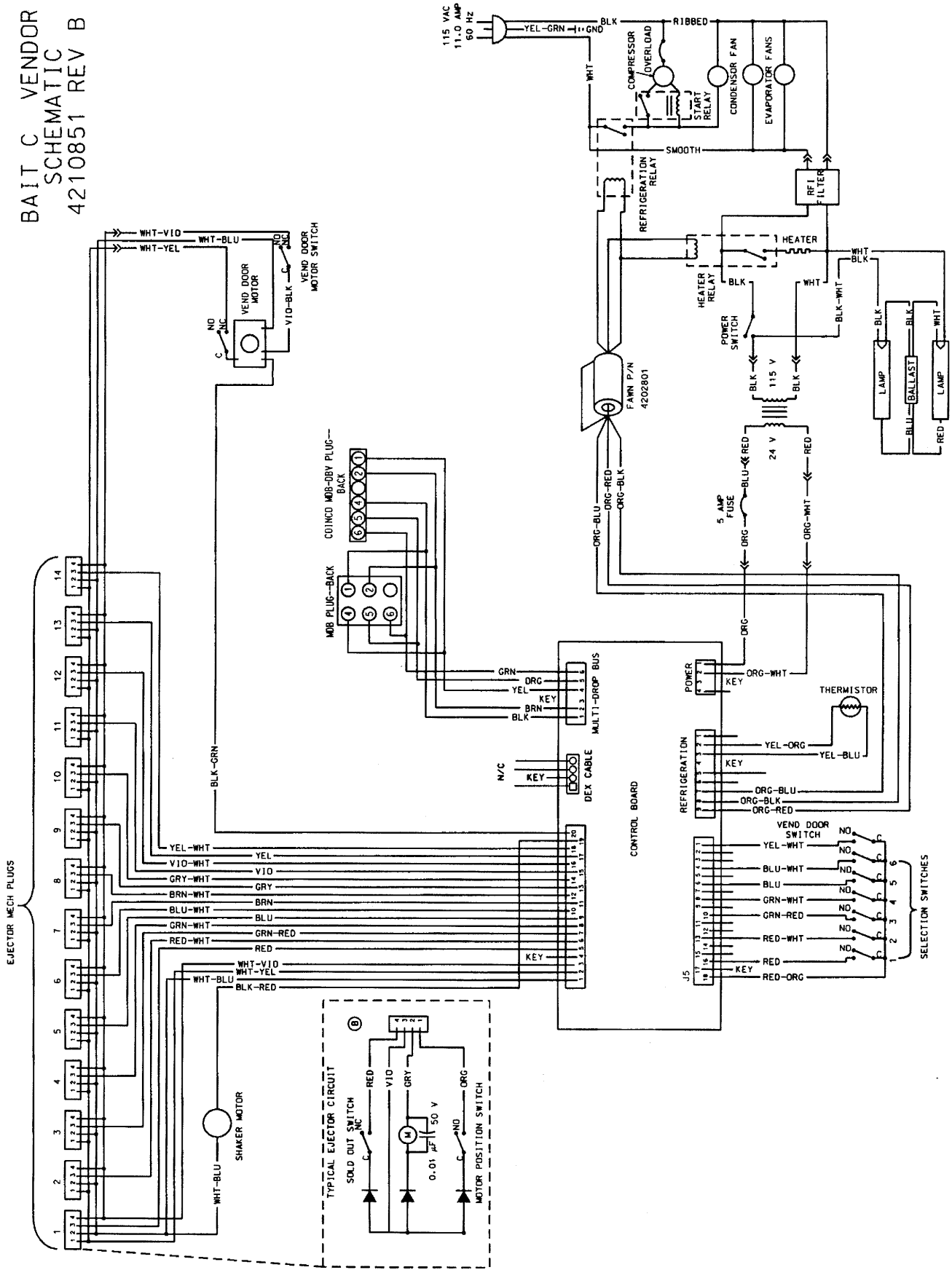
   Fold a sheet of 8 ½" x 11" paper in half. Place the paper in front of the condenser coils, and see if it draws the paper to the coils.
10. Is the shelf in front of the evaporator coil clear? (Free of cans, tools or other air restricting items)

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

Or E-Mail: VendNet@Ecity.net

Include model number and serial number

SCHEMATIC FOR BAIT-C



ADDENDUM

ADDITIONS TO BAIT VENDOR

The following are additions to the Bait control board.

Add the following to the Operating Section of the Bait Vendor Service Manual P/N 4207449.

Sold Out Switch Change

The controller will read the Sold Out Switch during the entire vend cycle rather than after the vend cycle. Once a selection has been made and the vend motor begins to turn, the controller begins to monitor the Sold Out Switch.

This action accomplishes two things. An inactive sold out switch is over-ridden in the event that a dented or distorted Styrofoam canister is resting against the switch, and it allows the last canister of product for a particular selection to be vended to avoid spoilage.

Empty Entire Selection

The Empty Entire Selection option allows the vendor operator to dispense all product canisters of a single selection.

During a Empty Entire Selection cycle the shaker motor is disabled and the bi-fold door motor rotates to open the door, which remains open until the Empty Entire Selection cycle is stopped.

NOTE

Total cash sales and total vend counts are not incremented during a Empty Entire Selection cycle.

Place the controller in *Service Mode* by pushing the service mode button six (6) times. ECOL will display.

To completely empty a selection, press the desired selection button to sequentially run every motor tied to that selection. Press the same selection button a second time to halt the Empty Entire Selection mode.

The motors of a selection will run sequentially until all columns are empty. If one column runs empty before the others, the controller will skip that column and keep running the others until all columns are empty. Then each motor will run once more with the shaker running to make sure each column is completely empty.

To exit *Service Mode* press the service mode button one (1) time or wait for the controller to time out, (approximately 25 seconds).

The following Section replaces the programming instructions in the Service Manual P/N 4207449.

The following Schematic replaces the Schematic found in Service Manual P/N 4207449.

Programming Instructions For Bait-C (MDB)

Service Mode	Press *Service Mode* Button	Displays	Explanation
Motor Count	1 time	XX OR S-XX	Where XX is the number of functional motors (16 motors total – 14 selection motors, one vend door motor, and one shaker motor). Where XX indicates selection button XX is stuck.
Dispense Coins	2 times	CPO	Press selection button 1 to dispense nickels. Press selection button 2 to dispense dimes. Press selection button 3 to dispense quarters.
Coin Tube Fill	3 times	FILL	When a coin is deposited into the coin mechanism, the display will alternately flash the number of coins present for that particular coin value, and then flash the value. Example: 9 - .05 indicates nine nickels are present in the coin mechanism. **NOTE:** To reset coin mech counters – with power applied disconnect coin mech for two minutes, then reconnect.
Test Vend Single Selection	4 times	DTS	Press a selection button to run the corresponding motor. Displays selection number if motor(s) is operative. Displays FAIL if motor is inoperative.
Test Vend All Selections	5 times	DTA	Press a selection button to run all motors in sequence. Displays selection number if motor(s) is operative. Displays FAIL if motor is inoperative.
Empty Selection	6 times	ECOL	Press selection button to empty all columns tied to that selection. Press selection button a second time to halt motor(s).
Refrigeration Relay and Heater Relay Test	7 times	TEST	Press selection button 1 to test refrigeration relay. Press selection button 2 to test heater relay. Press selection button 3 to display current internal temperature. **NOTE:** Temperature in degrees Fahrenheit is automatically displayed every 60 seconds when in the *Sales Mode* of Operation.
Set Vend Prices	8 times	SPR	Press a selection button to display current vend price. Press once and hold to decrease the displayed price. Press twice and hold to increase the displayed price.
Options	9 times	OPT	Press selection button 1 to scroll through the three options. Press selection button 2 to toggle an option "ON" or "OFF".
		1-1 or 1-0	Force Vend Option "1 = ON" or; Force Vend "0 = OFF"
		2-1 or 2-0	Bill Escrow Option "1 = ON" or; Bill Escrow "0 = OFF"
		3-1 or 3-0	Multi-Vend Option "ON = 1" or; Multi-Vend "OFF = 0"
Refrigeration Setting	10 times	FRIG	Press selection button 1 for low temperature setting (35°F – 43°F). Press selection button 2 for normal temp. setting (40°F – 48°F). Press selection button 3 for high temp. setting (50°F – 58°F).
Total Cash Count	11 times	XX then YYYY	The display will alternately flash CASH then 2 digits then 4 digits. Example: 23 - 16.80 indicates $2,316.80 total cash sales.
Total Vend Count	12 times	XX then YYYY	The display will alternately flash CASH then 2 digits then 4 digits. Example: 04 - 9150 indicates 49,150 total vends.