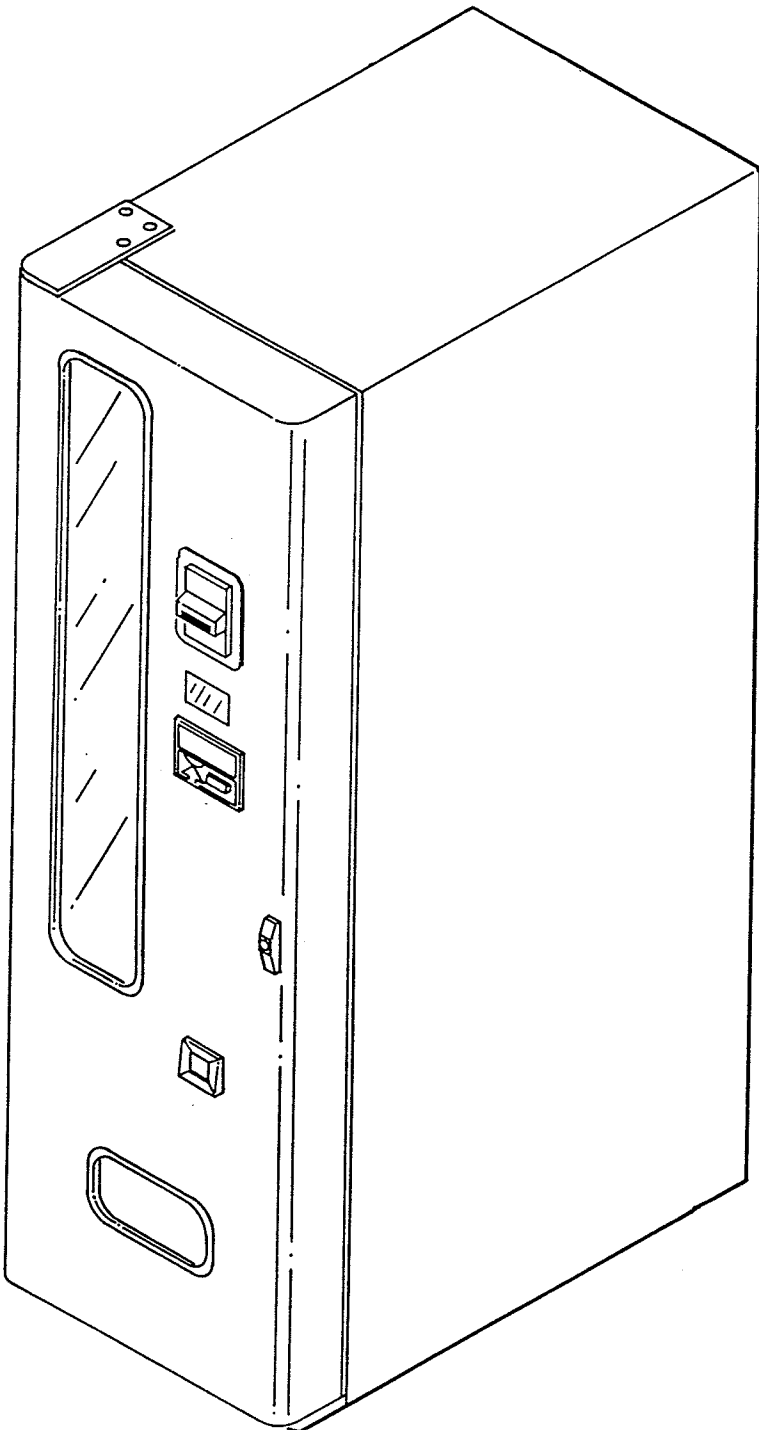


**CD 6SA  
COLD DRINK VENDOR  
MODEL: 3061**



**SERVICE  
MANUAL**

P/N 4203749



# TABLE OF CONTENTS

INTRODUCTION .....	1
SPECIFICATIONS .....	1
INSTALLATION INSTRUCTIONS .....	2-5
LOADING INSTRUCTIONS.....	6
PRICE SETTING INSTRUCTIONS .....	6
COIN MECHANISM .....	7
INSTALLATION CHECK LIST .....	8
FEATURES AND FUNCTIONS .....	9
POWER SUPPLY .....	9
COIN CHANGER .....	9
CONTROL BOARD FUNCTIONS.....	9
CREDIT DISPLAY .....	9
SERVICE MODE DIAGNOSTICS.....	10
SERVICE MODE FUNCTIONS .....	10-13
UPPER AND LOWER EJECTOR MECHANISM REMOVAL .....	13-14
REFRIGERATION SYSTEM .....	15
OPERATION RECOMMENDATIONS .....	15
CARE & CLEANING.....	16
PARTS ORDERING PROCEDURE .....	17
TROUBLESHOOTING .....	18-21
SCHEMATIC.....	22

# INTRODUCTION

---

This service manual contains installation and service information on the Model 3061 Can Drink Vendor. It is a six select, 12-ounce can vendor with 2 pre-cool storage shelves on the can rack assembly.

The 3061 operates on a "first-in", "first-out" vend principle on all selections, this keeps the products fresh. The electronic control system on these machines provides the versatility to allow for individual pricing from \$.00 to \$99.95 and parallel vending circuits to eliminate the problem of the entire machine being out of order when one or more selections is jammed, out of order, or has a stuck button. This machine is equipped with electronic credit display which shows the customer his accrued credits. This machine is also equipped to use a dollar bill validator.

## SPECIFICATIONS

---

### PHYSICAL:

Height	68"
Width	21"
Depth	33 1/2"
Weight	425 pounds

### ELECTRICAL:

Power	115 Volts
Hertz	60
Start Amps	7.0 Amps.
Running Amps	3.5 Amps.

### COINAGE:

Coinco 9302 Coin Mech  
Mars TRC 6010 Coin Mech

### COINAGE:

1/4 Horsepower  
4 oz. R-12 Refrigerant

### SELECTIONS:

Six - 12 oz. cans

### CAPACITY:

204 - 12 oz. cans  
12 - 12 oz. pre-cool

# INSTALLATION

This machine was thoroughly inspected before leaving the factory, and the carrier has accepted this vendor as their responsibility. Any damages or irregularities should be noted at the time of delivery and immediately reported to the delivering carrier. Request a written Inspection Report from the Claims Inspector to file any freight claims for damage. File claim with CARRIER, (NOT THE MANUFACTURER) within 15 days after receipt of the machine.

Record the model number and serial number on the vendor and refer to these numbers on all inquiries and correspondence pertaining to the vendor.

Carefully remove the shipping material and inspect the machine for concealed damage. Report any damage hidden by the material direct to the delivering carrier on a "Hidden Damage Report."

Remove the knock-away supports by inserting a screwdriver and splitting the knock-away into two. (**See Illustration #1**). Turn the leveling screws in as far as possible. Position the vendor in its intended place of operation. **Leave at least four inches of space behind the vendor for proper air circulation and installing wall mount bracket.** Level the vendor, making sure all levelers are touching the floor with equal weight on all. The vendor **MUST** be level for proper operation and acceptance of coins through the coin mechanism.

Remove all packing material in a manner not to damage the finish or

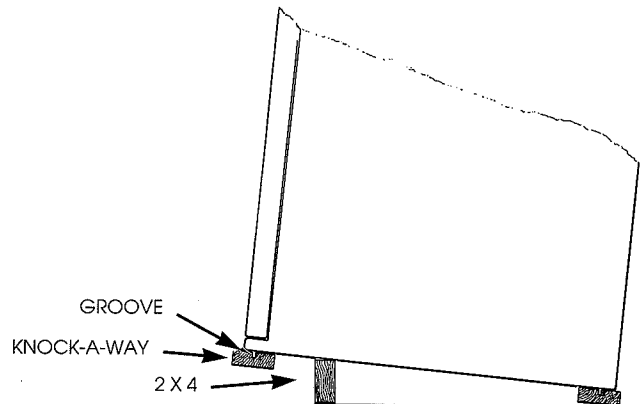


ILLUSTRATION #1

exterior of the vendor. Remove all inner packing material and tape from the inside of the machine.

Locate the vendor within four feet of a 115 volt power source, with at least four inches of air space between the back of the machine and any wall or obstruction.

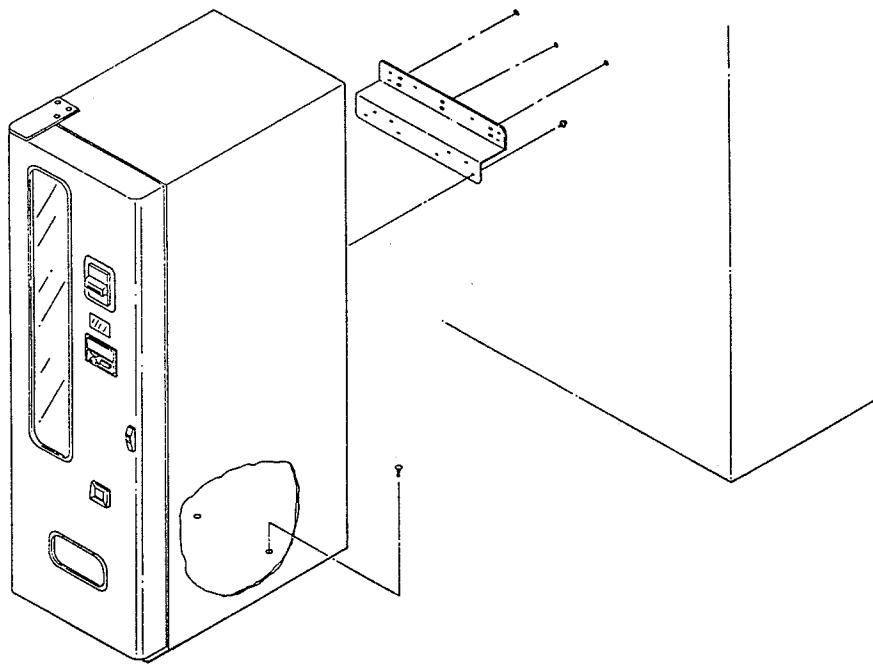
## INSTALLATION OF WALL MOUNT BRACKET

**WARNING:** Failure to install the Wall Mount Bracket in strict accordance with the following procedure may create an unintentional tipping, hazard, or may result in improper positioning of the machine against the wall, and possible damage to the refrigeration unit. All installation and service work must be done by a qualified service technician.

1. Locate wall mount bracket and eight screws in the service package.
2. Securely attach wall Mount Bracket with eight screws to the cabinet

# INSTALLATION CONTINUED

---



**ILLUSTRATION #2**

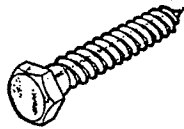
back. Align holes in wall mount bracket with the hole pattern in cabinet back to ensure proper positioning of the wall mount bracket. (See **Illustration # 2**).

these holes in wall. The fasteners used to attach bracket to wall will determine diameter of hole to be drilled.

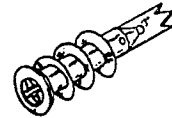
3. Push machine to desired position against wall and clearly mark, through wall mount bracket, holes intended for mounting. These holes allow attachment to both concrete or sheet rock walls, using the two center holes for a 24" stud sheet rock wall, outer most holes for a 16" stud sheet rock wall, smallest holes for sheet rock wall when studs are not available, and any pattern for a concrete wall. (Fasteners used are determined by type of wall machine is mounted to and for suggested fasteners. See **Illustration # 3** ).
4. Push machine away from markings for desired mounting holes and drill

5. Finally, push machine back to desired position against wall and securely attach wall mount bracket to wall using proper fasteners. (Fasteners not provided). (See **Illustration #3**).
6. Holes are provided in bottom of cabinet (See **Illustration #2**) to allow machine to be mounted to floor. Follow above procedures for marking and drilling holes. (Fasteners used are determined by the construction of the floor the machine is mounted to). (For suggested fasteners). (See **Illustration #3**).

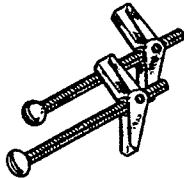
# INSTALLATION CONTINUED



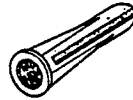
1/4 x 1 7/8 x 20 Lag Screw  
(Wood Studs)



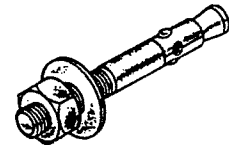
Self-Drilling Sheet Rock Anchor  
(Absence of Stud)



3/16 x 4 Round Head Toggle Bolt  
(Absence of Stud)



Plastic Lipped Screw Anchor  
(Sheet Rock)



1/4 x 2 1/4 Carbon Steel Concrete  
Wedge Anchor  
(Concrete)

## ILLUSTRATION #3

### DO NOT OPERATE THE VENDOR ON AN EXTENSION CORD

To insure safe operation of an electrically equipped vendor, the vendor must be grounded. To verify that the receptacle is properly grounded connect one probe of a test light or meter to the screw holding the receptacle cover. Insert the other probe into each opening of the outlet. If the test light does not light when placed in either side of the receptacle, the receptacle is not grounded. (See **Illustration #4**).

### RECEPTACLE WITH THREE FEMALE OPENINGS:

To verify that the receptacle is properly grounded and polarized, insert one probe of a volt-meter (set to check AC line voltage) or test light, in the ground terminal "hole" of the 3-position receptacle. Insert the other probe (of meter or test light) in the L.H. slot (if ground hole is "up") or in the R.H. slot (if ground hole is "down"). You should read 115 VAC on the volt-meter, or the light. (See **Illustration #4**).

**WARNING:** do not block the ventilating screens in front or in the rear of the vendor. Always allow free ventilation behind a bank installation, so that exhaust air is not trapped. Failure to do so could result in a refrigeration failure.

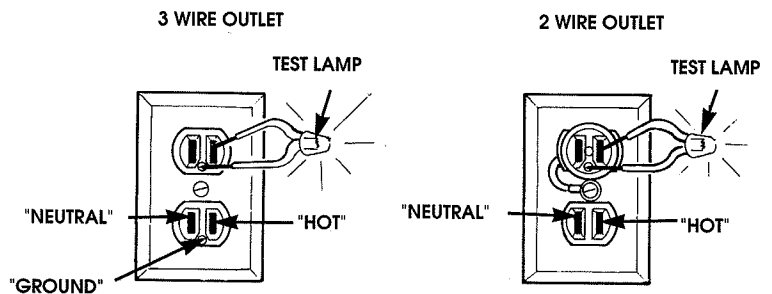


ILLUSTRATION #4

# INSTALLATION CONTINUED

---

If you find that the receptacle is not grounded, or polarized, you should contact a licensed electrician to correctly polarize and/or ground the receptacle to insure safe operation. Consult local, state and federal codes for compliance before installation of the vendor.

The vendor requires a 115 volt/60 Hz., dedicated/isolated electrical power source. The evaporator motors and

refrigeration unit will start running as soon as the vendor is plugged in. Locate power switch in lower left corner of cabinet with door open and switch it on:

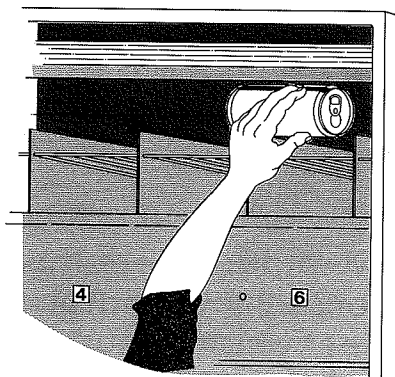
1. Validator stacker, if so equipped, will cycle.
2. A decimal point and two zeros will appear in the credit display.



# CONTROLLER FUNCTIONS

## LOADING INSTRUCTIONS – DOUBLE SERPENTINE:

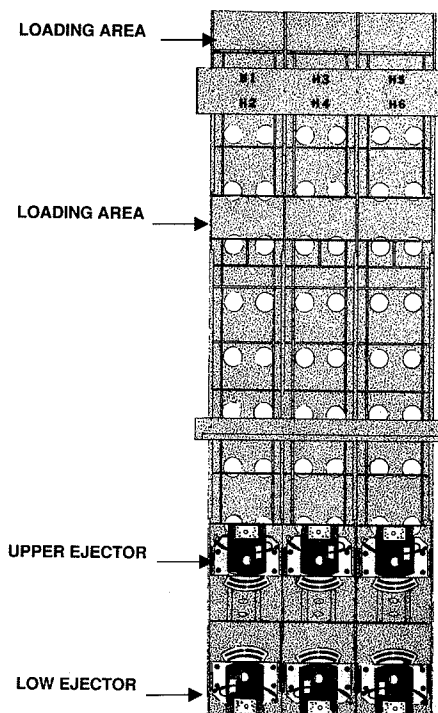
To load serpentine, place product in the loading area that coincides with desired selection and release as shown in **Illustration #5**. Selection buttons read one through six from left to right and top to bottom, and correspond directly to labeled loading areas shown in **Illustration #6**.



**ILLUSTRATION #5**

The selections are numbered from top to bottom, left to right when facing the vendor. Selections number one (1) Three (3) and five (5) will hold 33 cans each. Selections number Two (2), four (4), and six (6) will hold 35 cans each. There are 2 pre-cool shelves mounted to the can rack. Each shelf holds 6 cans.

**NOTE:** When loading the columns, do not let the first cans loaded strike the motor cans with full force.



**ILLUSTRATION #6**

## PRE-COOL SHELVES:

The pre-cool shelves should be used to store the high volume flavors, (usually Cola and Diet Cola). When reloading cans the pre-cool shelves should be loaded first. This will help to guard against the sale of warm drinks.

## PRICE SETTING INSTRUCTIONS:

A vend price must be set in the controller for every selection. The procedure is as follows:

1. Open vendor and separate inner and outer doors.
2. Locate service mode button on the

# CONTROLLER FUNCTIONS

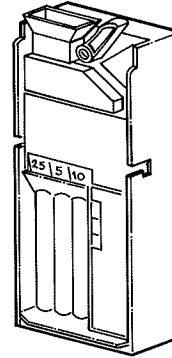
---

inside upper left portion of outer door and push the button 5 times. The display on the front of the door will read "5Pr".

3. Push and release the selection button of the flavor to be priced. The current price will be displayed.
4. Push and hold the selection button again, the price will go up or down in 5 cent increments.
5. Release the selection button for 1 second and push again, the price will then go in the opposite direction.
6. When new vend price is reached, another selection can be priced by pushing another selection button or get out of Price Setting by pushing the Service Mode Button.

**NOTE:** See quick reference sheet on inside door.

**IMPORTANT:** After loading, make sure that the vend price is correct for each selection, and that the vend price, display product, and vend product correspond with each selection.



**ILLUSTRATION #7**

## COIN MECHANISM:

Fill coin mechanism with nickels, dimes and quarters. As shown in **Illustration #7**.

**NOTE:** If vendor is equipped with Dollar Bill validator the coin mechanism must have a minimum of 12 of each coin to allow validator to function.

---

# INSTALLATION CHECKLIST

1. All shipping brackets, packing material and tape have been removed.
  2. Make sure the vendor is level from left to right and front to back.
  3. The dedicated outlet is polarized and grounded.
  4. The coin mechanism switches have been set properly.
  5. Each coin tube has at least 12 coins and no tube is filled above the fill level line.
  6. All vend prices have been set correctly.
  7. Vendor has been properly loaded and all items in each selection correspond to the display product and vend price.
  8. The machine is plugged directly into a live 115 volt dedicated outlet.
- EXTENSION CORDS CAUSE PROBLEMS – DO NOT USE EXTENSION CORDS**
9. The machine has at least 4" of space behind it.
  10. Soft drinks have been pre-cooled.
  11. The vendor door is closed tightly and locked.

**WARNING:** This vendor is equipped with a 5 AMP and a 3 AMP circuit breaker to protect the vend circuit only. The refrigeration system is not on this breaker.

# FEATURES AND FUNCTIONS

---

## POWER SUPPLY:

The control board, credit display and coin changer are powered by a transformer located behind a panel at bottom left of cabinet. The secondary voltage supply is 24 VAC. A main power switch is located on the front of this panel to interrupt the power source to the entire machine, except for the refrigeration system. This switch MUST be turned "OFF" before disconnecting any electronic components or control board damage will occur.

## COIN CHANGER:

This vendor operates with a control board directed or "dumb" changer such as the Mars TRC6010, or Coinco 9302L. Coin inventory is provided by the control board for both coin changers.

## CONTROL BOARD FUNCTIONS:

The controller is the central control for the entire vending machine. It audits input from the coin changers and directs functions to the changer and read-out, records vends and amounts of money inserted, and controls all selections, prices and vending functions.

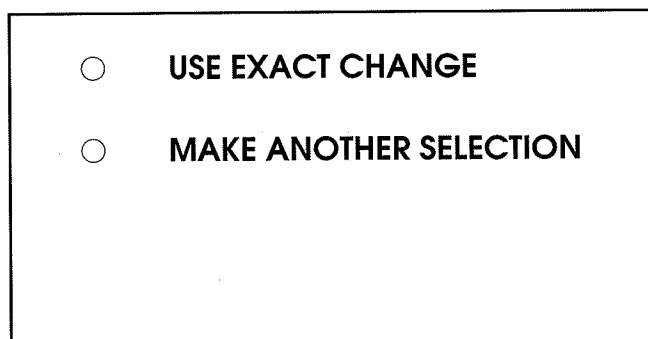
The controller will sense the highest vend price that has been programmed for each selection and when credit is

equal to the highest end price, the "money accept circuit" will be broken, and no additional credit can be established. Money inserted, when in this condition, will be automatically returned to the customer.

## CREDIT DISPLAY:

The credit display panel is located above the coin insert and instruction panel on the outside of the main door. (See **Illustration #8**). In the display, the amount of money deposited for each vend will be shown to the customer. In the event the coin changer cannot make change on an over deposit, the "Use Correct Change" light will be on. The inserted coins will be returned when the coin return lever is operated.

If a selection button has been depressed for a product from a column that is either sold out or has been determined defective, the "Make another selection" indicator will flash 10 times in a 10 second interval. If all columns are empty, the "MAKE ANOTHER SELECTION" indicator will be left on continuously and no further money will be accepted.



**ILLUSTRATION #8**

# SERVICE MODE DIAGNOSTICS

## **PRESS THE SERVICE MODE BUTTON 1 TIME.**

If a 5 followed by a dash and two digits is flashing in the display window, a selection button is stuck on. For example, if 5-03 and 5-12 is flashing alternately in the display, selection buttons 3 and 12 are sticking. (**NOTE:** The service mode functions will not respond properly until this condition is corrected). Before proceeding any further, you should consult the service manual troubleshooting section or contact a service representative to assist you.

If the display shows 2 non-flashing digits, (Example: 06), this is the number of functional motors in the machine. This is used to help locate faulty motors. For example, if you have a vendor that has 6 selections, and the display shows any number other than 06, that indicates that a motor may not be operational. If a motor is not functioning, you can still perform service mode functions, but you should consult the service manual troubleshooting section or contact a service representative to assist you.

## **PRESS THE SERVICE MODE BUTTON 1 TIME TO ADVANCE TO MANUAL COIN DISPENSE OR 8 TIMES TO RETURN TO SALES MODE.**

**NOTE:** See Quick reference sheet on inside door.

## **SERVICE MODE FUNCTIONS:**

**NOTES:** A) The control board will automatically return to sales mode after approximately 20 seconds of inactive service mode time.

B) The controller is in sales mode when ".00" can be seen in the display window.

### **1) TO COUNT THE NUMBER OF FUNCTIONAL MOTORS:**

SEE THE INSTRUCTIONS FOR THE **SERVICE MODE DIAGNOSTICS** LISTED ABOVE.

### **2) TO MANUALLY DISPENSE COINS:**

Press the **SERVICE MODE BUTTON 2 TIMES.**

"CPO" will appear in the display window.

Press selection button 1 to dispense nickels.

Press selection button 2 to dispense dimes.

Press selection button 3 to dispense quarters.

Press selection button 4 to dispense \$1.00 coins (when this option is available).

**PRESS THE SERVICE MODE BUTTON TO RETURN TO SALES MODE.**

# SERVICE MODE DIAGNOSTICS

---

## RETURN TO SALES MODE.

### 3) TO TEST VEND A SINGLE MOTOR.

PRESS THE **SERVICE MODE BUTTON 3 TIMES.**

"**dt5**" will appear in the display window. Press any of the selection buttons to run their corresponding motors.

**PRESS THE SERVICE MODE BUTTON TO EXIT SERVICE FUNCTIONS.**

### 4) TO TEST VEND ALL MACHINE MOTORS. PRESS THE **SERVICE MODE BUTTON 4 TIMES.**

"**dtA**" will appear in the display window. Press any of the selection buttons to start all machine motors running in sequence. The display window will show the number of the motors as they run.

**PRESS THE SERVICE MODE BUTTON TO EXIT SERVICE FUNCTIONS.**

### 5) TO SET THE SELECTION PRICES.

PRESS THE **SERVICE MODE BUTTON 5 TIMES.**

"**5Pr**" will appear in the display window. Press and release any selection button to display the current price of that selection. Press and hold the same button to increase or decrease the price. If the price is going one direction and you want it to go the other direction, release and re-press and hold the button again.

**PRESS THE SERVICE MODE BUTTON TO SAVE ANY PRICE CHANGES AND EXIT**

## SERVICE FUNCTIONS.

### 6) TO SET THE "FORCED VEND" OPTION.

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"**OPT**" will appear in the display window. Press and re-press selection button 1 until "1-0" or "1-1" appears in the display window. Press and re-press selection button 6 to change the option status. "1-0" = "off" and "1-1" = "ON".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

This option is used to prevent coins from being returned when the coin return lever is pressed, effectively "forcing" a customer to make a purchase.

**NOTE:** This only effects the bill validator.

### 7) TO SET THE VALIDATOR BILL ESCROW OPTION.

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"**OPT**" will appear in the display window. Press and re-press selection button 1 until "2-0" or "2-1" appears in the display window. Press and re-press selection button 6 to change the option status. "2-0" = "OFF" and "2-1" = "ON".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

This option can be used with a bill validator that has escrow capability

---

# SERVICE MODE DIAGNOSTICS

to hold a bill and issue credit. If a customer decides they don't want anything they can press the coin return lever and the last bill they put in will be returned to them. If this option is off the bill will be stacked prior to credit being issued.

## 8) TO SET THE MULTI-VEND OPTION.

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"OPT" will appear in the display window. Press and re-press selection button 1 until "3-0" and "3-1" appear in the display window. Press and re-press selection button 6 to change the option status. "3-0" = "OFF" and "3-1" = "ON".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

This option will hold any remaining credit after a vend has been made instead of automatically returning it, so a customer can make another selection if they desire.

**NOTE:** When this mode is on customer will have to push coin return to get change back.

## 9) TO ALTERNATE SELECTIONS 1 & 2, OR 1, 2 & 3 .

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"OPT" will appear in the display window. Press and re-press selection button 1 until "4-1", "4-2" or "4-3" appears in the display

window. Press and re-press selection button 6 to change the option status. "4-1" = "OFF", "4-2" = "alternate selections 1 & 2" and "4-3" = "alternate selections 1, 2 & 3".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

This option allows you to "tie" two or three selections together, if desired.

## 10) TO ALTERNATE SELECTIONS 5 & 6 .

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"OPT" will appear in the display window. Press and re-press selection button 6 to change the option status. "5-1" = "OFF" and "5-2" = "ON".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

## 11) FOR SLOW CHANGE PAYOUT .

PRESS THE **SERVICE MODE BUTTON 6 TIMES.**

"OPT" will appear in the display window. Press and re-press selection button 1 until "8-0" or "8-1" appears in the display window. Press and re-press selection button 6 to change the option status. "8-0" = "OFF" and "8-1" = "ON".

**PRESS THE SERVICE MODE BUTTON TO SAVE CHANGES AND EXIT SERVICE FUNCTIONS.**

# SERVICE MODE DIAGNOSTICS

This option only needs to be on if a MAKA coin changer is being used.

## 12) TO DISPLAY THE TOTAL VENDED CASH AMOUNT.

PRESS THE **SERVICE MODE BUTTON 7 TIMES.**

The display will flash 2 digits and then 4 digits and repeat. (Example: 01--23.45 would be \$123.45)

**PRESS THE SERVICE MODE BUTTON 1 TIME TO ADVANCE TO DISPLAY THE TOTAL VEND COUNT OR 2 TIMES TO EXIT SERVICE FUNCTIONS.**

## 13) TO DISPLAY THE TOTAL VEND COUNT .

PRESS THE **SERVICE MODE BUTTON 8 TIMES.**

The display will flash 2 digits and then 4 digits and repeat. (Example: 06-7899. would be 67,899 vends).

**PRESS THE SERVICE MODE BUTTON TO RETURN TO SALES MODE.**

## UPPER EJECTOR MECHANISM REMOVAL:

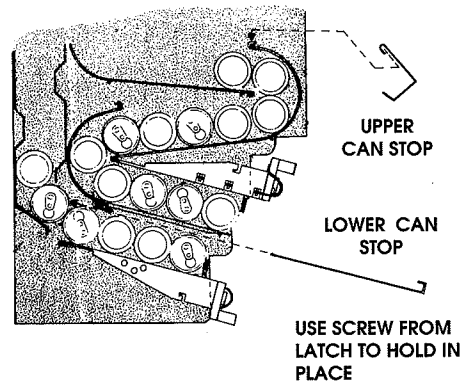
Before removing the ejector mechanisms, the product must be removed or held back in the serpentine column and lower precool shelf.

**CAUTION:** The motor can be rotated clockwise slowly by hand. Damage to the motor could result if rotated too fast or in the wrong direction.

To remove the upper vend mechanism proceed as follows:

**NOTE:** If only the motor needs removal, follow Step 1 through Step 4.

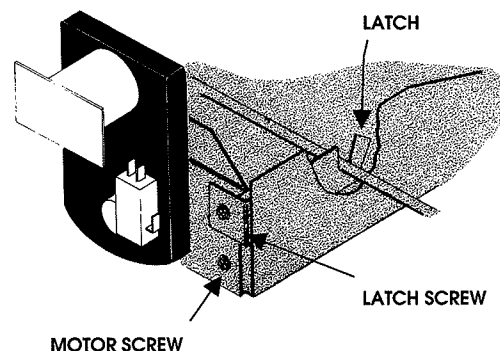
1. Remove the lower precool shelf and motor cover.
2. Insert the upper can stop (P/N 1211018) by hooking it over the rod and clamping it down around the can. (See **Illustration #9**).



**ILLUSTRATION #9**

3. Loosen the latch screw so the latch drops out of the way. (See **Illustration #10**).

**NOTE:** After motor screws have been removed, pressure will be needed to pull the motor off the cam drive shaft.



**ILLUSTRATION #10**



# SERVICE MODE DIAGNOSTICS

4. To remove the complete ejector mechanism without removing the motor, rotate the cam clockwise slowly by hand to remove ten cans.
5. Unplug the ejector mechanism wiring harness from the main motor harness.
6. After the cans have been removed from the ejector mechanism, the ejector mechanism can be re-moved. Push the ejector mechanism backward until it clears the rod and drops down and out.
7. To remove the vend motor remove the two motor screws. Remove the wire harness connections from the motor switch and circuit board tabs, noting which wire connects to which tab. Cut the plastic cable tie that straps the main harness to the motor cylinder. (See **Illustration #10**).

**CAUTION:** The motor can be rotated clockwise slowly by hand. Damage to the motor could result if rotated too fast or in the wrong direction.

To remove the lower ejector mechanism proceed as follows:

**NOTE:** If only the motor needs re-moved follow Step 1 through Step 4.

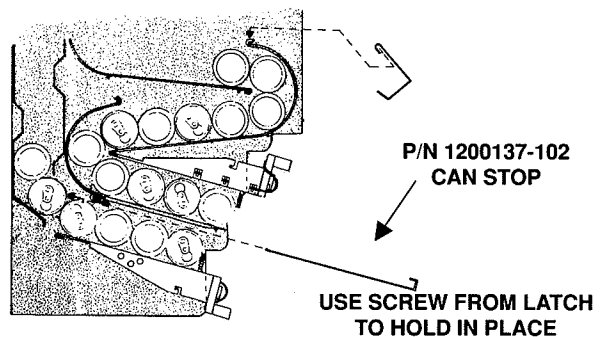
## LOWER EJECTOR MECHANISM REMOVAL:

Before removing th lower ejector mechanism, the product must be removed or held back in the serpentine column.

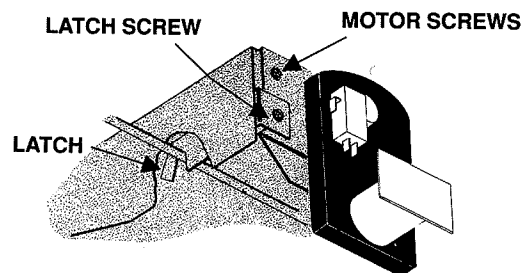
1. Remove the can chute assembly by removing the two screws on side and one on the bottom
2. Insert the lower can stop (P/N 1200137-102) by sliding the can stop all the way in and screwing down the fastener. (See **Illustration #11**).
3. Remove the latch screw and latch. (See **Illustration #12**).

**NOTE:** After motor screws have been removed, pressure will be needed to pull the motor off the cam drive shaft.

4. To remove the vend motor remove the two motor screws. Remove the wire harness connections from the motor switch and circuit board tabs, noting which wire connects to which tab. Cut the plastic cable tie that straps the main harness to the motor cylinder. (See **illustration 12**).



**ILLUSTRATION #11**



**ILLUSTRATION #12**

# SERVICE MODE DIAGNOSTICS

---

5. To remove the complete ejector mechanism without removing the motor, rotate the cam clockwise slowly by hand to remove five cans. The cam must be pointing upward to enable the mechanism to be removed.
6. Unplug the ejector mechanism wiring harness from the main motor harness.
7. After the cans have been removed from the ejector mechanism the ejector mechanism can be re-moved. Push the ejector mechanism backward until it clears the rod and lifts up and out.

## REFRIGERATION SYSTEM:

The refrigeration system is a completely self-contained modular 1/4 HP unit which can be removed if there is a service problem.

1. To remove the refrigeration unit, unplug the power cord and remove the screws holding the unit in place.
2. Cut all the plastic cable ties that hold the main motor harness to the motor cylinders and unplug all ejector mechanism wiring harnesses from the main motor harness. You will need to remove the lower pre-cool shelf and can chute assembly to access the motors.
3. Unplug the main motor harness from the door harness at the power switch plate connection point.
4. Unplug the 100 volt power harness connection from the power switch plate and unscrew the green ground wire from the vendor cabinet.
5. Unscrew the "P" clamp that holds the main motor harness and the 110 volt power harness to the power plate.
6. Unscrew the strain relief mounting plate from the rear lower right hand cabinet stiffener.

7. Use the handle on the unit and pull straight back to remove.

To re-install reverse procedures.

**WARNING:** Placing any object in the area of evaporator assembly may damage refrigeration system, which may void refrigeration warranty.

## OPERATION RECOMMENDATIONS:

During periods of peak sales we recommend the following to keep cans cool.

1. Fill the machine at night.
2. Make sure to fill the machine with product from the pre-cool (rack on the door) first. Fill these racks with your top selling products.
3. Double up selection of fastest moving flavors.
4. During peak selling days, keep extra product in cooler so that when filling machine product is already cool.
5. Make sure after filling the machine the door lock is tightened completely. This will ensure a tight seal and won't allow air to escape from the machine.
6. **DO NOT USE AN EXTENSION CORD!** A compressor will not cool the machine properly if it is starving for electricity. If door is not completely tight the evaporator will freeze and cause drinks to be hot.
7. Do not adjust the cold control beyond 2 1/2 or you can freeze up the cans. Adjusting the cold control beyond 2 1/2 will not cause the cans to cool faster.

---

# CARE AND CLEANING

## CABINET EXTERIOR:

Wash with a mild detergent and water, rinse and dry thoroughly. Wipe occasionally with a quality car wax. Plastic exterior parts may be cleaned with a quality plastic cleaner.

## CABINET INTERIOR:

Wash with a mild detergent and water. Odors may be eliminated by including baking soda or ammonia in the cleaning solution. Remove and clean drain hose to eliminate any deposits that may restrict condensate water flow.

The vend mechanisms MUST be kept clean. Any build-up of syrup deposits can cause these mechanisms to

malfunction. Use soap and water with great care so as not to get water into the electrical components.

To insure proper vending keep delivery slide area free of dirt and sticky substances.

## REFRIGERATION SYSTEM:

Clean dust from condenser and screen in the front door with a soft bristle brush or vacuum cleaner. Remove any dirt or debris from the refrigeration system compartment. Remove and clean the condensation pan.

**CAUTION:** Always disconnect power source before cleaning.

# PARTS ORDERING PROCEDURE

---

When ordering parts, include the following information:

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 parts manual for the correct part number and description of a specific part.
  - a. If you do not have the right parts manual at the time you order, contact:

**SELECTIVEND  
P.O. Box 488  
165 North 10th Street  
Waukee, Iowa 50263-0488**

They will provide a copy for you.

Do not hold the order pending receipt of the parts manual; 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.

When ordering parts, include the following information:

- b. When "RIGHT" and "LEFT" are 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. Always include model number and the serial number of the machines for which the parts are needed on the order.
6. List any special shipping instructions.
  - a. Always note on the order if you require air or air special, truck, parcel post, or rail. If a specific carrier is desired, note it on the order.
7. Sign the order and note the date entered on the order.
8. When a purchase order number is used, be sure that it is legible and visible.

## MAIL YOUR ORDER TO:

**SELECTIVEND  
P.O. Box 488  
165 North 10th Street  
Waukee, Iowa 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.

# TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Vendor rejects all coins, credit display is off.	Plug on controller is loose or unplugged.	Check the wire connections at the controller for good connections.
	Transformer assembly is unplugged in cabinet.	Check the connection to and from the transformer panel.
	Black and white wires from the refrigeration system.	Use volt meter to check for line voltage (110 volts) at white plug.
	Circuit breaker on transformer panel.	Reset or replace circuit breaker.
	Damaged or defective power cord.	Replace power cord.
	Vendor unplugged	Plug vendor in.
	Fuse or circuit breaker tripped in supply (building) outlet.	Reset or replace.
Vendor rejects all coins, credit display is on.  Two or more selections are running at the same time.  Controller Diagnostics indicate that a selection switch is stuck.	Plug on controller is loose or unplugged.	Check the wire connections at the controller for good connections.
	Coin release lever is being held down.	Adjust the coin release lever.
	Defective coin changer.	Repair or replace changer.
	Bad controller board.	Replace board.
	Defective ejector motor.	Unplug all ejector motors. Plug them back in one at a time and test each motor until the faulty unit(s) are located. Replace the defective motor(s).
	Sticking selection switch.	Clean or replace switch.
Harness wires are on the wrong switch tabs.	Repair or replace harness.	

# TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Controller Diagnostics Motor count does not equal the number of selections.	Motor(s) unplugged.	Plug motor(s) in.
	Non-functional motor(s).	Locate and replace defective motor(s).
	Bad controller board.	Replace board.
Vendor accepts coins, but does not vend on any selections.	Plug on controller loose or unplugged.	Check wire connections at both ends of wire harness for good connections.
	Vend prices set wrong	Set prices correctly.
	Bad controller board.	Replace board.
Vendor accepts coins, but does not vend on one or more selections.	A broken or loose wire from controller to selection switch or motor plug.	Check wire connections at both ends of wire harnesses for good connections.
	A sold out switch is wired wrong or defective.	Make sure wires are on the proper switch tabs or replace the switch.
	A defective motor or selection switch.	Replace motor or switch.
	Vend prices set wrong.	Set prices correctly.
	Bad controller board.	Replace board.
Vendor vends properly, but pays back wrong amount of change or no change at all.	Prices set incorrectly.	Set price properly.
	Changer out of change.	Fill changer coin tubes.
	Defective coin changer or changer harness.	Repair or replace changer or changer harness.
	Bad controller board.	Replace board.
Product does not match selection pushed.	Alternate selections options are on.	Turn options off.
	Bad controller board.	Replace board.

# TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Product does not match selection pushed.	Product loaded wrong.	Load product properly.
	Selection switch wires crossed or ejector motor wires crossed.	Verify wire harness point to point connections as shown on wiring diagram.
Vendor free vends	Selection prices set to \$.00.	Set selections to desired vend price.
	Defective coin changer.	Repair or replace changer.
	Bad controller board.	Replace board.
Bill validator does not accept bills.	Coin changer out of change.	Fill changer coin tubes.
	No power to validator.	Check supply circuit.
	Validator stacker not closed.	Close validator stacker.
	Defective validator.	Replace validator.
	Foreign objects in validator.	Remove foreign objects.
	Bad wire harness.	Repair or replace.
Service mode functions not responding as they should or not able to enter service mode.	Sticking selection button.	Locate, clean or replace.
	Service mode button not working.	Replace board.
	Bad controller board.	Replace board.

# TROUBLESHOOTING

---

## BEFORE CALLING FOR SERVICE CHECK THE FOLLOWING:

1. Does your machine have at least 4" 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?

### EXTENSION CORDS INVITE TROUBLE! DO NOT USE THEM!

4. Is the evaporator coil free of dust and dirt?
5. Is the condenser coil free of dust and dirt?
6. Have all soft drinks been pre-cooled before being put in the machine?
7. Is the compressor free of dust? (A blanket of dust can prevent the compressor from cooling off between workouts).

8. Has the circuit breaker in the fuse box been reset?
9. Is the cold control set between 2 and 3?
10. Are the evaporator fans running?

### EVAPORATOR FAN TEST

Fold a sheet of 8 1/2" x 11" paper in half from top to bottom so it is now 5 1/2" x 8 1/2". Place the paper in front of the evaporator coil and see if the evaporator fans will draw the paper to the coil. If it does, the answer to question 10 is yes.

11. Is the condenser fan running?

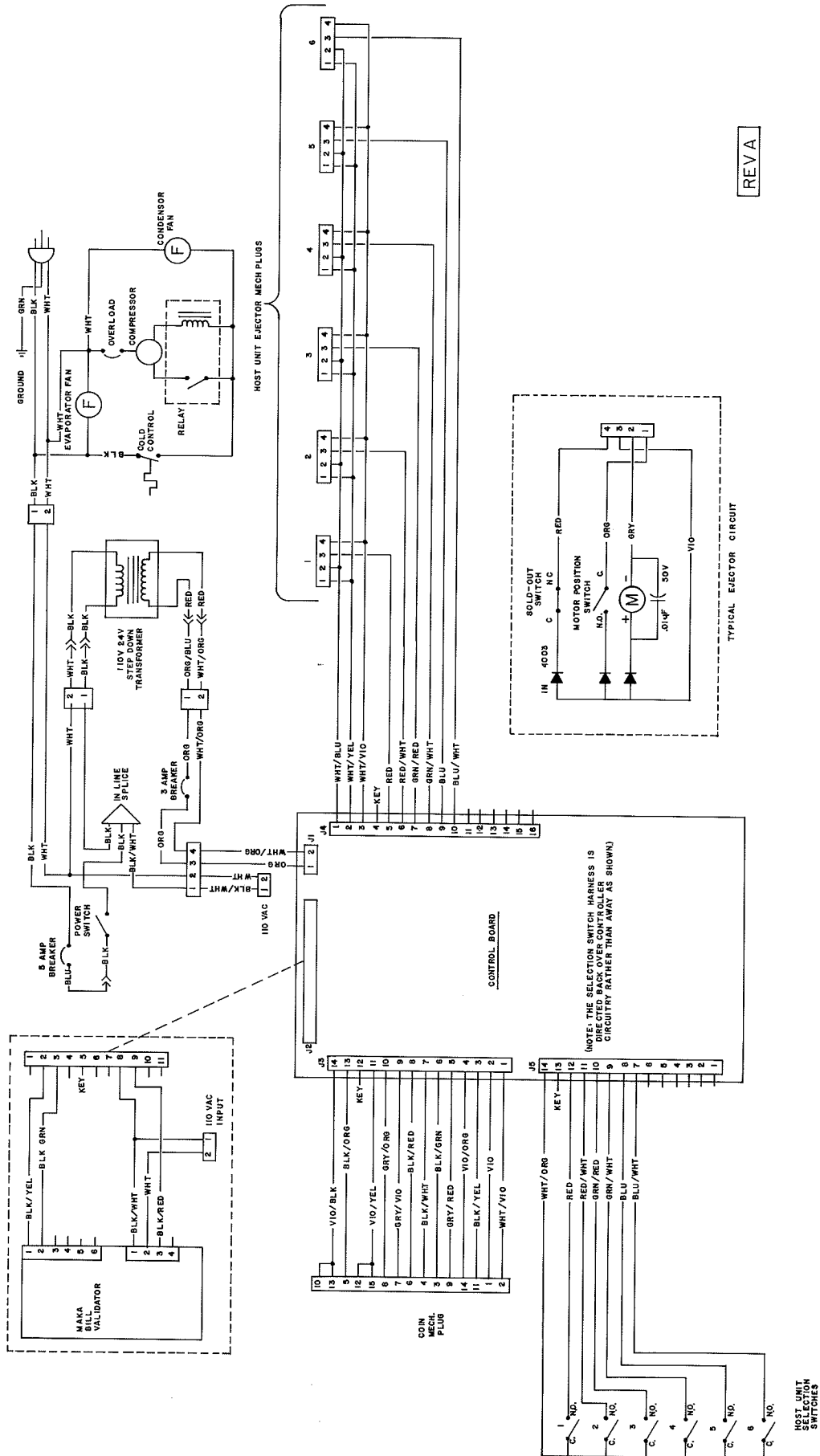
### CONDENSER FAN TEST

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 it. If it does, the answer to question 11 is yes.

12. Is the shelf in front of the evaporator coil clear? (Free of cans, tools or other air restricting items).



# SCHEMATIC



REV A