instruction manual for

SNACKSHOP LCM5

Automatic Products
international, ltd.

75 WEST PLATO BOULEVARD • ST. PAUL, MINNESOTA 55107-2095

Part 17500013 Form 11/99
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WARRANTY

Automatic Products International Ltd. (API) expressly warrants these automatic merchandisers (the “Unit”), manufactured by it, to be free under normal use and service from defects in material or workmanship for a period of two (2) years from the date of delivery of this Unit to the original purchaser. This warranty extends only to the original purchaser of the Unit. The exclusive remedy for this warranty is limited to the repair or replacement, at API’s sole option, of any part or parts of the Unit that are returned to API or to the authorized dealer or distributor of API from whom the unit was purchased with all transportation charges prepaid, and which, on API’s examination, shall, conclusively appear to have been defective. This warranty does not:

a. extend to any Unit, or part thereof, that was subjected to misuse, neglect, or accident by other than API after its delivery to the original purchaser;

b. extend to any Unit, or part thereof, that was modified, altered, incorrectly wired or improperly installed by anyone other than API or used in violation of the instructions provided by API;

c. extend to a Unit which has been repaired or altered by anyone other than API or authorized dealer/distributor;

d. extend to a Unit which has had the serial number removed, defaced or otherwise altered;

e. extend to plastic or glass windows, lamps, fluorescent tubes and water contact parts;

f. extend to any unit used outdoors;

g. extend to accessories used with the Unit that were manufactured by some person or entity other than API.

API DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND AS TO THE UNIT AND ALL WARRANTIES OF ANY KIND AS TO ANY ACCESSORIES. THIS DISCLAIMER OF WARRANTIES INCLUDES ANY EXPRESS WARRANTIES OTHER THAN THE LIMITED WARRANTY PROVIDED ABOVE AS TO THE UNIT AND ALL IMPLIED WARRANTIES OF MERCHANDABILITY AND FITNESS FOR A PARTICULAR PURPOSE AS TO THE UNIT AND ANY ACCESSORIES. UNDER NO CIRCUMSTANCES SHALL API BE RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, LOSSES OR EXPENSES ARISING FROM OR IN CONNECTION WITH THE USE OF, OR THE INABILITY TO USE, THE GOODS FOR ANY PURPOSE WHATSOEVER. API or any other person is authorized to assume for API, or agree to on behalf of API, any other liability or warranty in connection with the sale of this unit.

API reserves the right to make any changes or improvements in its products without notice and without obligation, and without being required to make corresponding changes or improvements in Unit theretofore manufactured or sold.

Snackshop LCM has been designed from superior engineering and with quality throughout. It has been built of rugged construction for many years of reliable trouble-free operation. (Note: For indoor use only.) CAUTION: THIS MACHINE IS DESIGNED FOR INDOOR USAGE ONLY. ANY OTHER USAGE MAY VOID THE MANUFACTURERS WARRANTY.

To achieve the most economical trouble-free operation from your Snackshop LCM, it is recommended that this service manual be thoroughly read and instructions followed pertaining to all loading and servicing, etc., of the vendor.

Should you have any questions pertaining to this manual or the vendor, please contact your local Automatic Products Company distributor or write directly to:

Automatic Products International, Ltd.

75 West Plato Blvd. • St. Paul, Minnesota 55107-2095
CONTROL-SETUP AND OPERATION
PRESS MODE SWITCH ONCE TO ENTER SERVICE MODE. THEN PRESS APPROPRIATE BUTTON ON DOOR FRONT SELECTION PAD.

COIN DISPENSING
PRESS NO.1 - PRESS [A] DISPENSES 25¢ COIN
PRESS [B] DISPENSES 5¢ COIN
PRESS [C] DISPENSES 10¢ COIN
PRESS [D] DISPENSES $1.00 COIN

ACCOUNTABILITY
PRESS NO. 3 - PRESS [A] TOTAL VEND COUNT
PRESS [B] TOTAL CASH
PRESS [C] TOTAL CAN VENDS
PRESS [D] TOTAL CASH CANS

PRICE SETTING
PRESS NO. 4 - (DISPLAY WILL SHOW “PRC”)
PRESS SELECTION TO BE PRICED
PRESS ▲ BUTTON TO INCREASE PRICE
PRESS ▼ BUTTON TO DECREASE PRICE
THIS MUST BE DONE FOR EACH SELECTION TO BE PRICED.
NOTE: PRICING “00” IS FREE VEND.

TEST VEND
PRESS NO. 5 - (DISPLAY WILL SHOW “SLCT”)
PRESS DESIRED SELECTION TO BE TEST VENDED.

VEND MODE
PRESS [E] - (DISPLAY WILL SHOW “OPTN”)
PRESS [A] - FORCE VEND YES OR NO
PRESS [B] - BILL ESCROW YES OR NO
PRESS [C] - MULTI-VEND YES OR NO
PRESS [D] - CANNED DRINK YES OR NO
PRESS [F] - FREE VEND YES OR NO
IF FREE VEND IS ON YES ENTIRE MACHINE WILL FREE VEND IF BUTTON NO. 5 IS PRESSED THEN ANY SELECTION MADE.

EXIT FROM SERVICE MODE
PRESS MODE SWITCH OR MACHINE WILL EXIT AUTOMATICALLY AFTER 30 SECONDS.
Unless otherwise specified machine will be shipped with spiral assortment shown below.
Figures in circles represent capacities in each spiral.

MODEL LCM5 - 312
Capacity as shown: 102 units

MODEL LCM5 - 316
Capacity as shown: 164 units

MODEL LCM5 - 320
Capacity as shown: 230 units

MODEL LCM5 - 324
Capacity as shown: 296 units

PRODUCT SIZE CAPABILITY

<table>
<thead>
<tr>
<th>Shelves</th>
<th>Height</th>
<th>Width of Snack Shelves Only</th>
<th>Width of Candy Shelves Only</th>
<th>Depth of Snack Spirals Only Choice:</th>
<th>Depth of Candy Spirals Only Choice:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>7-3/4”</td>
<td>2-1/2” to 5-1/4”</td>
<td>1” to 2-14”</td>
<td>4-Item Spiral 3”</td>
<td>3-Item Spiral 3-15/16”</td>
</tr>
<tr>
<td>Second</td>
<td>7-1/4”</td>
<td>2-1/2” to 5-1/4”</td>
<td>1” to 2-14”</td>
<td>6-Item Spiral 2-3/32”</td>
<td>6-Item Spiral 1-15/16”</td>
</tr>
<tr>
<td>Third</td>
<td>6-3/8”</td>
<td>2-1/2” to 5-1/4”</td>
<td>1” to 2-14”</td>
<td>8-Item Spiral 1-9/16”</td>
<td>8-Item Spiral 1-1/2”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10-Item Spiral 1-1/8”</td>
<td>10-Item Spiral 1-15/16”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12-Item Spiral 16/16”</td>
<td>16-Item Spiral 11/16”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20-Item Spiral 1/2”</td>
<td></td>
</tr>
</tbody>
</table>

Eight selection shelves for candy and other narrow items fit on all three positions.
Spiral of one item capacity can be freely interchanged with any other of the same diameter.
Boxed items may need slightly larger clearances to vend properly.
Movable spacers available to adjust widths to ranges shown in each selection.

CAN COOL UNIT CAPACITIES

<table>
<thead>
<tr>
<th>Using 330 ml Cans (European)</th>
<th>Using 375 Cans (Aust.)</th>
<th>Using 355 ml Cans (Domestic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 Cans in Long Track</td>
<td>15 Cans in Long Track</td>
<td>15 Cans in Long Track</td>
</tr>
<tr>
<td>9 Cans in Short Track</td>
<td>9 Cans in Short Track</td>
<td>8 Cans in Short Track</td>
</tr>
<tr>
<td>96 Cans Total (8 select)</td>
<td>72 Cans Total (6 select)</td>
<td>92 Cans Total (8 select)</td>
</tr>
<tr>
<td>88 cans vendable with one can in each column by sold out switch (8 select).</td>
<td>66 cans vendable with one can in each column by sold out switch (6 select).</td>
<td></td>
</tr>
</tbody>
</table>

INSTALLATION REQUIREMENTS:
- Back to wall gap 6 inches minimum
- Front (door swing clearance) 33-1/2 inches
- Floor level within 1 inch
- Machine to be leveled to within 1 degree front to back and side to side
The LCM5 will be capable of operating in a temperature range of 10˚ C to +50˚ C (50˚ F to 104˚ F) in still air (90% R.H. non-condensing). The unit will be capable of being stored in a temperature range -45˚ C to +80˚ C. The above spec assumes the machine is not in direct sunlight.
The Snackshop LCM is assembled and packed so that a minimum amount of time is necessary for preparation to install it on location. The following steps are recommended to insure correct unpacking.

1. **Shipping Damage.** Thoroughly inspect the exterior of the carton for damage which may have occurred during shipment. Report any damage to delivering carrier and follow their instructions.

   **NOTE:** Machines with refrigeration units delivered on their sides should be stood upright for 24 hours before the machine is plugged into an outlet.

2. Remove staples from lower edge and those at top of carton, and slit carton vertically at the taped corner. Open and remove carton. Remove the remainder of the packing material. Machines shipped with a lock in place, the keys are located in the coin return cup.

3. **Removing Vendor with a Fork Lift Truck.** Remove the carton from the vendor. Open the door on the vendor and remove the hold down bracket at the front center of the cabinet base and close the vendor door. From the front of the vendor, tip the vendor backward and run forks under the cabinet.

4. On machines with lock in place, unlock, and turn handle to open door. When no lock is furnished, remove tape and turn handle. Swing door to its full open position.

5. Remove all packing tape and paper from various areas of machine and the shipping strap.

6. **Warranty.** The warranty card is attached to the cover of this manual. It must be filled out in full and mailed at once to insure coverage.

**IMPORTANT:** A set of anchoring brackets are sent with each machine. The kit is located in the bottom of the machine complete with instructions. It is recommended that this kit be installed to prevent shifting of the machine. Part # 660438

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## Installation

1. **Leveling the Machine** on location is important for the proper function of the machine. The four leveling screws in the legs are the means of leveling the machine. After positioning the machine, level machine in front to rear and right to left directions. After leveling, turn front right (lock side) leveling screw in about one-half turn to drop this corner slightly to make the door easier to close and lock.

   **CAUTION:** Certain procedures in both the operating section and the service section require that voltage be on in the machine. Only trained personnel should perform this function. Exercise extreme caution while performing these procedures. These procedures will be marked with the lightening bolt symbol as it appears left.

   **CAUTION:** Certain procedures in both the operating section and the service section requires a qualified trained technician to perform the particular task at hand. These procedures will be marked with the exclamation symbol as it appears left.

2. **Voltage and Polarity Check.** It is important that this machine is hooked up to the proper voltage and polarity. Using a voltmeter, perform the following checks from the illustration shown.

   ![Voltage and Polarity Check Diagram]

   **NOTE:** Should the readings be different from above, have a certified electrician correct the problem.

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**CAUTION:** This machine is designed for indoor usage only. Any other usage may void the manufacturer's warranty.

**CAUTION:** The following procedure requires that the machine have power applied and a potential electrical shock hazard exists.

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**CAUTION:** The following procedure requires that the machine have power applied and a potential electrical shock hazard exists.
3. **Loading Snack Shelves.** Open door to full open position, push down on white and gray plastic lock levers (*Figure 1.*) on right side panel by shelf to unlock shelf, holding lever down. Grasp the shelf slightly and pull forward until shelf reaches its stop. The shelves tilt down (do not drop) to make loading easier. **Only one product shelf should be in the loading position at a time.** When returning a shelf, be sure the shelf is in its full home or vend position. Begin loading with the top shelf. Move it to the loading position. The height spacing for items is greatest in this shelf and the tallest bagged items should be placed there. Soft items, such as pastry, pies, etc., should be placed in the lowest snack shelf, making the drop distance as short as possible.

**IMPORTANT:** Product must not be forced into the spiral spaces but should fit freely. If the product is too tight, use a larger pitch spiral. The bottom of the product should be placed on top of the spiral wire that rests on the shelf surface. (*Figure 2.*) The width of the product must be greater than the diameter of the snack spiral. If it is smaller, the product may fall through when it is in the front, ready to vend position.

4. **Removal of Spiral.** Grasp the front of the spiral and turn it clockwise. Lift the spiral up and off of the spiral lock and turn the spiral counterclockwise to lock it in place. Be sure the front end of the spiral is positioned properly (with the front end of the spiral pointing downward on the left side). (*Figure 3.*) The spiral lock is attached between the spiral retainer tabs. Give a light forward pull on front of the spiral to check if it is locked in place.
5. **Product Spacers, 4-Selection Shelf.** A product spacer is used to reduce the width of the product area and should be used on any 4-selection snack shelf where the product width is 4-1/2" or less. Spacers should fit within 1/8" of the product but should not fit tight against the product. There are three positions in each snack space where these spacers can be placed. To install the spacer, align the lock ears (on the lower edge of the spacer) with one of the three sets of slots (one front and one rear). *(Figure 4.)* Push the spacer to the rear to allow the ears to enter the slots, then allow the spacer to move forward. Be sure the ears are in the same set of slots, front and rear. *(Figure 4.)* Continue loading all spirals. Adjust with spacers where needed in the top shelf. Return the top shelf to the vend position and following this procedure, load the remainder of the large spiral shelves. The shelf divider separating the right (lock side) column from the next column is movable to allow vending of products wider than 5-1/2" in the second column. If this is used, the right column must be used to vend narrower products.

6. **Loading Main Product Candy Shelves.** The 8-selection (candy type) shelves are loaded similar to the 4-selection shelves, except that, the bottom of the product sits on the shelf in front of the spiral wire *(Figure 5.)* that rests on the shelf. These products must also fit properly in the spiral space. **Do not force product into spiral.** These spirals are removed and installed the same as the large spiral *(Figure 3.)*, except that, the front end position is different (approximately 5 o'clock) *(Figure 5.)* and the front left side of the spiral must be behind the small tab located on the left side of the product space side wall. *(Figure 5., Detail A)*

7. **Product Spacers, 8-selection shelf.** The 8-selection shelves are equipped with a product spacer *(Figure 6.)* that can be pivoted from the right side of each product space. These spacers should be pivoted out to hold the product upright, but not tight against the product. Leave about 1/8" clearance between the spacer and the product.

8. **Product Pusher.** The machine contains enough pushers for you to install a pusher on each candy spiral. This plastic part is designed to push the top of the product forward while it is vending, helping it to fall from the shelf. It can also be used with products that have the wrapper end flap on the outside of the package. In this case, the pusher prevents these products from hanging on the spiral by spreading the flap. The pusher is installed approximately 210 degrees from the front end of the spiral with the tab extending forward. *(Figure 7.)* Locate the pusher in its proper position, hold it against the spiral wire and push the semi-circular part around the spiral wire.

**Note: Not every selection spiral will need a product pusher.** *(Example: box items)*
9. **Bagged or Boxed Items** in the 8-selection shelves, if not loaded properly, could be a problem. The sealed edge of the bag may get under the spiral wire causing the product to hang up after it has been vended. It is recommended that the lower edge of these types of product be folded forward and up (*Figure 8.*) next to the product before inserting into the spiral space. It is also recommended to use an 18 count spiral for bagged items because of the product settling to the bottom of the package.

10. **Cigarette Vending from Snackshop LCM5.** Cigarettes can be vended from the candy shelves using the 10 capacity spiral for the soft pack regular, king, 100mm or 120mm packs. The 8 capacity spiral should be used for box packs.

11. **Lock Product Shelves.** After all the product has been loaded, be sure all shelves are returned to their vend position behind the front roller guide.

12. **Install Proper Price Tabs** into price tab holder for each selection in the main product area. (*Figure 9.*)
1. **Control-Service Mode.** The Service mode is entered by pressing and releasing the mode button located on the component side of the controller. A second depression of the mode button will exit the service mode and return the controller to the Sales mode. If a period of no keypad activity occurs for 25.5 seconds, the controller will automatically revert to the Sales mode.

Upon entering the Service mode, diagnostics will be displayed by the controller until an additional Service mode function has been selected. Diagnostics include the number of configured motors and defective or jammed motors.

Entrance to the Service mode clears the current credit and disables all credit acceptance (except for Protocol A devices, here the VMC is the slave and must not modify credit acceptance/accumulation). Selection motors are automatically configured upon power up, reset and exiting Service mode. The following list of functions are available while in the Service mode.

2. **PRESS #1 - Coin Dispense Mode.** Coins are dispensed from the inventory tubes by pressing key #1. The controller will display “coin” and wait for an additional key to be pressed as follows:
   - Pressing [A] dispenses the left coin tube (25¢)
   - Pressing [B] dispenses the middle coin tube (5¢)
   - Pressing [C] dispenses the right coin tube (10¢)
   - Pressing [D] dispenses the fourth coin tube ($1 coin)

To exit this mode, press another function key or leave the service mode pressing the mode switch.

3. **PRESS #3 - Accountability Mode.** Vend count and cash total accountability will be displayed by pressing key [3]. The controller will display “Acct” and wait for an additional key to be pressed as follows:
   a. Press button [A] to display total vend count. The vend counter will be eight digit numbers displayed as the upper four for 2 seconds followed by the lower four for 2 seconds.
      - Example: Displays “0001” (1st upper four #’s)
      - Displays “0025” (2nd lower four #’s)
      - “0001” together with “0025” = 10,025 vends.
   b. Press button [B] to display total cash sales. The cash counter works the same way as step “a” above, except the last two digits will have a decimal point in front indicating cents.

   Example: Displays “0002” (1st upper four #’s)
   - Displays “01.20” (2nd lower four #’s)
   - “0002” together with “01.20” = $201.20 total cash sales.

4. **PRESS #4 - Price Set Mode.** To begin the price setting procedure, press key [4]. The controller will display “Prc” and wait for a selection to be entered. Once the selection is entered, the current price will be displayed. The price can now be increased with the scrolling up (▲) button or decreased with the scrolling down (▼) button. (Figure 10.)

The maximum price can be set to $99.95. Setting a selection price to $00.00 will put it on free vend.

   **Step Procedure.**

   b. Press selection item to be priced (displays current price “xx.xx”).
   c. Using the up (▲) or down (▼) buttons will change to the price desired. (Figure 10.)
   d. Repeat steps “b” and “c” to price another selection.
   e. To exit this mode, press another function key or leave the Service mode by pressing the mode switch.

5. **PRESS #5 - Test Vend Mode.** To test vend a single selection, press key [5]. The controller will display “Slct” and wait for a selection to be entered. Once the selection is entered, a vend of the motor will be attempted. If the vend is successful, the controller will blank the display and exit the test vend mode. If the selected motor fails, the controller will display “Fail” for 2 seconds and then exit.

   **Step Procedure.**

   b. Press the motor selection to test vend (machine will display selection and cycle motor unless vend test fails, which would display “Fail”).

---

**CAUTION:** THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.
c. To test vend other selections, press [5] and repeat steps "a" and "b".
d. To exit this mode, press another function key or leave Service mode by pressing the mode switch.

**NOTE:** Test vending a selection that had failed previously, will reset if the motor successfully completes a vend cycle.

**PRESS #6 - Diagnostic Vend Test.** This feature can be used to test vend all configured motors within the machine before installing on location. The controller will display each selection as a vend attempt is made. If the vend is successful, the controller will continue on with the next selection. If the selected motor fails the controller will display "FAIL" for 2 seconds and then continue. When a vend attempt on all motors has been completed, the controller will blank the display and exit the test vend mode. To exit this mode, press another function key and hold until the current vend is completed or exit the Service mode.

**CAUTION:** THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

**6. Vend Option Mode.** To enter the vend option mode, press key [E]. The controller will display "OPtn" and wait for additional key to be pressed for following features:

a. **Press key [A] - Force Vend.**
   (displays "FrcY" or "Frcn")
   Press key [A] again to toggle between force vend enabled ("FrcY") and force vend disabled ("Frcn").

b. **Press Key [B] - Escrow Enable.**
   (displays "EScY" or "EScn")
   Press key [B] again to toggle between escrow enable ("EScY") or escrow disable ("EScn"). The escrow enable option allows the validator to return a bill inserted by a customer who changes their mind. The bill inserted will be held by the validator without being stacked. When the coin return button is pushed, the bill is returned.

c. **Press key [C] - Multi-Vend.**
   (displays "MuLY" or "MuLn")
   Press key [C] again to toggle between multi-vend enable ("MuLY") or multi-vend disable ("MuLn"). The multi-vend option allows the customer the option to vend multiple items without reentering credit. Change will not be returned immediately after a vend and credit will remain on the display for up to 20 seconds. Escrow attempts will be valid at any time or change will be returned after 20 seconds of no vend activity.

d. **Press key [D] - Can Drink.**
   (displays "CaNvY")
   Press [D] again to toggle between "CaNvY" and "CaNn".

e. **Press key [F] - Free Vend.**
   (displays "FREvY" or "FREN")
   Press key [F] again to toggle between Free Vend Enable ("FREvY") or Free Vend Disable ("FREN").

The Free Vend option allows the customer to test vend each selection motor for proper operation.

**NOTE:** The machine should be on "CaNvY".

**components**

**CAUTION:** THE FOLLOWING PROCEDURE REQUIRES THAT THE MACHINE HAVE POWER APPLIED AND A POTENTIAL ELECTRICAL SHOCK HAZARD EXISTS.

1. **Power Supply.** The 115V AC power cord from the wall outlet comes into the machine and plugs into the back of the main junction box located on the bottom right side of the cabinet. The voltage output to the board is 24 volts and is plugged in the top right corner (P1 position).

2. **Changers.** The Snackshop LCM can use a variety of either Coinco or Mars changers. The machine is wired for only 24 volt models. The changers available are Coinco (9302L or 9302LF) and Mars (TRC-6010 or TRC-6010XV). In addition, control boards support MDB (Multi-Drop Bus) peripherals which include coin mechanisms, validators and card readers. MDB harness is P/N 680576.

3. **Controller Board.** This module is located on the inside door (above selector panel) of the vending machine. The controller will govern all vending activity within the machine. It has the capability of driving eighty/selections.

4. **Mode Switch.** The Snackshop LCM has only one mode switch that allows control of the machine functions. It is located on the control board. This switch will allow 6 modes of operation.

5. **Operate Mode.** The operate mode is when the machine is in the normal customer vending mode. The following steps explain the operation and sequence of events when making a vend.

a. **Digital Display.** During standby with no credit in machine, the digital display will show all zeros or a designated decimal point. When an alpha-numeric character is pressed, this selection will be displayed.

b. **Credit Operation.** Credit may be accumulated through either a coin changer or bill validator mechanism. Credit acceptance will disable when the accumulated credit equals or exceeds the highest priced item. If using an executive or "Protocol A" type coin mechanism, credit acceptance is controlled by the changer.

   The bill validator will be enabled when a combination of nickels and dimes, or nickels and quarters are available in the changer.

c. **Vend Process.** After a keypad entry is made, the controller will determine if sufficient credit is available and
7. **Vend Motors.** The Snackshop LCM incorporates the use of a high RPM DC motor. Due to new design, the vend motor may no longer be homed by hand. **DO NOT TRY TO TURN THE SPIRALS BY HAND. DAMAGE TO THE MOTOR WILL RESULT.** It is also important to check polarity before applying current to the motor. 2 diodes and a capacitor are used to prevent circuit feedback and may have to be checked when trouble shooting motor problems.

   **NOTE:** Use black color motor only.

8. **Lighting System.** There is only 1 fluorescent lamp in the Snackshop LCM. The lamp is located on the top, inside of the door which lights up the main product area. The starter is located on the hinge side of the lamp. The ballast and line filter is located on the top, front, left shelf support. *(Page 18, Item 16.)*

9. **Main Product Shelves.** There are three main product shelves per machine. Each containing either 4 or 8 selections. Each selection has its own motor mounted to the back of the shelf. Every shelf has its own harness and plug for connecting to the remainder of the circuit through the cabinet receptacle, located in the right, rear of the cabinet. The motors are the same on either type shelf. It is now possible in the Snackshop LCM to exchange a 4-selection shelf with a 8-selection shelf or vice versa. You also have the capability to gain 1/2” either up or down on any shelf. To do this, the shelf should be removed and the cabinet back harness receptacle lowered or raised with the right and left shelf tracks.

   **NOTE:** When exchanging the shelves, you will not need any parts, but you will have to reprogram the machines for prices and selections

   **Removing Product Shelf.**
   a. Lift up and push the lock levers toward the back of cabinet. *(Figure 1., Page 3.)*
   b. Pull shelf to its loading position.
   c. Grasp shelf in front and rear center. Lift front of shelf up above horizontal and pull shelf forward while lifting.
   d. To install shelf, reverse above procedure.

10. **Delivery Bin.** This is located below the display window on the door and is mechanically operated. The linkage on the outside end of the delivery bin may require occasionally lubrication. Should the door become difficult to operate, place a small amount of grease on the arm tracks.

   **Removing Delivery Bin.**
   a. Remove the screws from the underside of the delivery bin. These screws fasten into the lower door brace and remove the screws and brackets at the top of the delivery bin.
   b. Grasp delivery bin on both sides, lift up and pull back. Should bin be tight, rock it by lifting on one end, then the other.
Replacing Delivery Bin.

a. Locate lip on front edge of delivery bin, over lower edge of opening in door and behind trim. Press down along lip to make sure it is fully engaged between door and trim.
b. Install the 4 screws and 2 brackets, to secure bin to door.

11. Coin Return. The coin return lever is located on the sliding panel and the coin return linkage is located above the changer, scavenges the slug rejector. Actuation of the coin return lever, will clear the rejector of any damaged coin and will also cancel all credit on the changer, returning that amount to the customer.

12. Coin Acceptance. A coin or coins (5¢, 10¢ or 25¢) being deposited, passes thru the rejecter and into their respective coin paths in the changer, establishing the credit. The coins then enter either the self-load change tubes on the changer or the cash box. Actuation of the coin return lever prior to making a selection will cancel all credit on the changer and will return the amount of deposit back to the customer.

cleaning

The Snackshop LCM will do the best merchandising job for you if it is kept clean. The display window can be cleaned with any good glass cleaner. The exterior and interior surfaces should be cleaned with warm water and mild detergent. Rinse thoroughly and dry all surfaces.

The main product shelves can be best cleaned with the spirals and product spacers removed. Refer to page 3 for removal of spirals and page 4 for removal of the product spacer.

Clean the acceptor on the changer frequently, accumulated dirt in this area can cause coins to hang or not be accepted. Follow recommended cleaning procedures as described by the manufacturer.

CAUTION:
Do not use any cleaners containing silicon, as this could cause electrical failures.
optional equipment

1. **Ventilating Fan**: (Part #660441 - 120 volts)
   The ventilating fan keeps a steady flow of air moving through the vendor cabinet. Installation of the fan takes only a few minutes. All the vendors are wired with a fan plug on the junction box for easy installation.

2. **Gum & Mint.** Gum & mint units are available as an option with Snackshop LCM vendors. For information pertaining to loading or servicing gum & mint unit, refer to this service manual for loading instructions and for service instructions.

   **CAUTION:**
   Do not attempt to use the special candy spirals in a 10 selection shelf.

3. **Soup Dispenser LCM5** (Kit 750083-1)
   A canned soup dispenser is available as an option for use in the 4-selection snack shelves. The dispenser is easy to install and holds up to seven cans in the unit.

4. **Dollar Bill Validators.** The validators take only a few minutes to install and may be purchased through the manufacturer of the unit. LCM machines will only use 24 volt validators.

5. **Dual Spiral Shelf.** Snack shelves can be set up to have dual spirals per selection on the shelf. The dual spirals will help vend specialty items better.

6. **Convertible Shelf.** The convertible shelf allows you to convert a snack shelf into a combination candy and snack shelf. The convertible shelf can be converted from 2 to 8 candy selections. (Example: 4 candy selections & 2 snack.)

7. **Can Storage Tray.** (660553-1). The storage tray is used to store spare cans inside the machine.

8. **Coin Mechs.** The API 120/320 Series machines support the following 24 volt Micromech and Multi Drop Bus Coin Mechs:

   **24 Volt Micromech Models - 15 pin plug only**
   - Coinco 9302 LF
   - Mars TRC-6010XV
   - VN-4010
   - Conlux USLX-004-01F

   **Multi Drop Bus Models**
   - Mars TRC-6510
   - VN-4510
   - Coinco 9302-GX
   - Conlux USLZ-004-01F

   The machine will automatically determine at power up which Coin Mech is connected and configure itself accordingly.

9. **Bill Validators.** The API 120/320 Series supports the following 24 volt MDB Bill Validators:

   **24 Volt Validators**
   - Coinco BA32SA
   - BA32R
   - Mars VFM1-L2-U4C
   - VFM3-L2-U4C
   - VN-2502-U5E

   **Multi Drop BusValidators**
   - Coinco BA32SA
   - BA32R
   - Mars VN-2502-U5M

   The machine will automatically determine at power up which Validator is connected and configure itself accordingly.

CAUTION:
Do not attempt to use the special candy spirals in a 10 selection shelf.
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<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
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</thead>
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<td>Top Trim Vantage</td>
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<td>2</td>
<td>201690-3</td>
<td>Top Trim Insert. Hide Black.</td>
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<td>201690-14</td>
<td>Top Trim Insert. Dark Gray.</td>
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<tr>
<td>6</td>
<td>750141-1</td>
<td>Front Window. (44 5/8 x 21 9/16 x 1/8).</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> Replacement Glass Must Be HardTempered or Lexan Only.</td>
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<tr>
<td>7</td>
<td>340058-12</td>
<td>Trim Horizontal. Window. Black.</td>
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<td>8</td>
<td>201356-2</td>
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<td>Screw Pan Hd.Drill Pt. (6-20 x 1/2) Qty.4.</td>
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<td>Door Only. Square. Specify Color</td>
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<tr>
<td>19</td>
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<td>Door Only. Square w/Van</td>
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<td>16000040</td>
<td>Door Only, Standard, Specify Color</td>
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<td>2</td>
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<td>Control Board Stand-off</td>
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<td>Control Board w/MDB (Requires Cover 202325)</td>
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<td>Screw, Hex Head, Machine (1/4-20 x 1/2)</td>
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cooler assembly

1. Swing out – panel assembly
2. Cooler assembly

Diagram with numbered parts: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
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</tr>
<tr>
<td>2</td>
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<td>Cover Up Plate, Galvanized</td>
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<tr>
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<td>Trim Horizontal, Top &amp; Bottom, w/Black Stripe</td>
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<td>Trim, Outside Vertical, Left or Right, Black</td>
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<td>Trim, Inside Vertical, Left or Right</td>
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<td>6</td>
<td>202059-36</td>
<td>L S V P Dove Gray Tron</td>
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<td>7</td>
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<td>Trim, Horizontal, Window</td>
</tr>
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<td>Delivery Tray Panel, Sterling Royce</td>
</tr>
<tr>
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<td>200296-10</td>
<td>Panel, Lower Horizontal, Dove Gray, Tron</td>
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<td>200296-55</td>
<td>Sterling Royce</td>
</tr>
<tr>
<td>10</td>
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<td>R S V P Dove Gray, Tron</td>
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<td>11</td>
<td>202806-22</td>
<td>Panel, Right Side Vertical-Upper, Dove Gray</td>
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<td>202806-44</td>
<td>Sterling Royce</td>
</tr>
<tr>
<td>12</td>
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<td>Door Only. Specify Color</td>
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<tr>
<td>Item No.</td>
<td>Part No.</td>
<td>Description</td>
</tr>
<tr>
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<td>340042-13</td>
<td>Top, Trim</td>
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<td>2</td>
<td>200526-29</td>
<td>Panel, Top Trim</td>
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<td>340057</td>
<td>Trim, Outside Vertical, Silver</td>
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<td>340058-6</td>
<td>Trim, Window. Black</td>
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<td>5</td>
<td>202059-43</td>
<td>Panel, Left Side Vertical. Black Hide</td>
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<tr>
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<td>340058-12</td>
<td>Trim, Window. Black</td>
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<td>7</td>
<td>201356-35</td>
<td>Panel, Delivery Tray. Sterling Royce</td>
</tr>
<tr>
<td>8</td>
<td>340055-27</td>
<td>Trim, Horizontal. Black</td>
</tr>
<tr>
<td>9</td>
<td>201692-47</td>
<td>Panel, Lower Horizontal. Black Hyde w/Stripes</td>
</tr>
<tr>
<td></td>
<td>201692-54</td>
<td>Panel, Lower Horizontal. Black Hyde w/o Stripes</td>
</tr>
<tr>
<td>10</td>
<td>201678-2</td>
<td>Bottom, Vinyl Door Edging</td>
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<tr>
<td>11</td>
<td>420186</td>
<td>Screw, HWH, Drill Point, Black (6-20 x 1/2)</td>
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<td></td>
<td></td>
<td>Qty. 4</td>
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<tr>
<td>12</td>
<td>12000205-11</td>
<td>Panel, Right Side Vertical. Lower, Black Hyde</td>
</tr>
<tr>
<td>13</td>
<td>16000040</td>
<td>Door Only. Specify Color.</td>
</tr>
<tr>
<td>Connectors</td>
<td></td>
<td></td>
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<tr>
<td>------------</td>
<td></td>
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<tr>
<td><strong>PUSH MOUNT CABLE TIE</strong></td>
<td><strong>CABLE CLAMP ADHESIVE</strong></td>
<td><strong>WIRE CLAMP</strong></td>
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<tr>
<td>380289</td>
<td>34 - 420096</td>
<td>12 - 420096-1</td>
</tr>
<tr>
<td><strong>PLUG - 12 PIN</strong></td>
<td><strong>SOCKET - 12 PIN</strong></td>
<td><strong>MOLEX CRIMP TERMINAL</strong></td>
</tr>
<tr>
<td>380289</td>
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<tr>
<td><strong>SOCKET 15 CIRCUIT</strong></td>
<td><strong>MOUNTING TYPE CABLE TIE</strong></td>
<td><strong>2 PIN INTERNATIONAL MOLEX</strong></td>
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<tr>
<td>380276</td>
<td>380276</td>
<td>380291</td>
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<td><strong>2 PIN INTERNATIONAL MOLEX RECEPTACLE</strong></td>
<td><strong>4 PIN INTERNATIONAL MOLEX PLUG</strong></td>
<td><strong>4 PIN INTERNATIONAL MOLEX RECEPTACLE</strong></td>
</tr>
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<td>380290</td>
<td>380296</td>
<td>380293</td>
</tr>
<tr>
<td><strong>3 PIN INTERNATIONAL MOLEX PLUG</strong></td>
<td><strong>3 PIN INTERNATIONAL MOLEX RECEPTACLE</strong></td>
<td>380295</td>
</tr>
<tr>
<td>FREE HANGING - 380296</td>
<td>PANEL MOUNT - 380296-1</td>
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<tr>
<td><strong>9 PIN INTERNATIONAL MOLEX PLUG</strong></td>
<td><strong>MALE MOLEX TERMINAL</strong></td>
<td><strong>FEMALE MOLEX TERMINAL</strong></td>
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<tr>
<td>380282</td>
<td>SMALL .063 - 380095</td>
<td>SMALL .063 - 380004</td>
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<td></td>
<td>LARGE .062 - 380150</td>
<td>LARGE .062 - 380128</td>
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## COINCO LCM CONTROLLER

### P1 POWER IN

<table>
<thead>
<tr>
<th>Key</th>
<th>Pin #1</th>
<th>Pin #2</th>
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<tbody>
<tr>
<td>1</td>
<td>24 VAC HOT</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GROUND</td>
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</tr>
<tr>
<td>3</td>
<td>24 VAC NEUTRAL</td>
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### P2 SELECTION SWITCHES

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<tbody>
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<td>9</td>
</tr>
<tr>
<td>B</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>7</td>
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<tr>
<td>E</td>
<td>4</td>
<td>7</td>
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<tr>
<td>F</td>
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<td>8</td>
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<td>G</td>
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<td>4</td>
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<td>H</td>
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### P3 COIN MECH.

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<tr>
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</tr>
<tr>
<td>2</td>
<td>TX -</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>RX -</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>GND -</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>RX +</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>24 VAC HOT</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>KEY</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>24 VAC RET</td>
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<td>ME9100 DETECT</td>
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### P4 BILL VALIDATOR

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<td>RENA1</td>
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<tr>
<td>2</td>
<td>KEY</td>
</tr>
<tr>
<td>3</td>
<td>KEY</td>
</tr>
<tr>
<td>4</td>
<td>RENA2</td>
</tr>
<tr>
<td>5</td>
<td>KEY</td>
</tr>
<tr>
<td>6</td>
<td>GND</td>
</tr>
<tr>
<td>7</td>
<td>INT</td>
</tr>
<tr>
<td>8</td>
<td>PAR/SER</td>
</tr>
<tr>
<td>9</td>
<td>SEND/ESC</td>
</tr>
<tr>
<td>10</td>
<td>DATA</td>
</tr>
<tr>
<td>11</td>
<td>$1 CREDIT</td>
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<tr>
<td>12</td>
<td>$5 CREDIT</td>
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<tr>
<td>13</td>
<td>+5 VDC</td>
</tr>
<tr>
<td>14</td>
<td>ESC/NOESC</td>
</tr>
<tr>
<td>15</td>
<td>$1 &amp; $5 ENABLE</td>
</tr>
<tr>
<td>16</td>
<td>HOT</td>
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<td>17</td>
<td>RET</td>
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### P5 US COIN MACH. AND L +

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<tr>
<td>3</td>
<td>24 VDC HOT NF</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>KEY</td>
<td></td>
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<tr>
<td>5</td>
<td>DATA</td>
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</tr>
<tr>
<td>6</td>
<td>INT</td>
<td></td>
</tr>
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<td>7</td>
<td>ACCEPT</td>
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<tr>
<td>8</td>
<td>MECH RESET</td>
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<td>9</td>
<td>SEND</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>+5 VDC</td>
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<td>GND</td>
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### P6 MOTOR DRIVE

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<td>2</td>
<td>ROW B</td>
</tr>
<tr>
<td>3</td>
<td>ROW C</td>
</tr>
<tr>
<td>4</td>
<td>ROW D</td>
</tr>
<tr>
<td>5</td>
<td>ROW E</td>
</tr>
<tr>
<td>6</td>
<td>ROW F</td>
</tr>
<tr>
<td>7</td>
<td>ROW G</td>
</tr>
<tr>
<td>8</td>
<td>ROW H</td>
</tr>
<tr>
<td>9</td>
<td>KEY</td>
</tr>
<tr>
<td>10</td>
<td>COL 1</td>
</tr>
<tr>
<td>11</td>
<td>COL 2</td>
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<td>COL 4</td>
</tr>
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<td>14</td>
<td>COL 5</td>
</tr>
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<td>15</td>
<td>COL 6</td>
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<td>16</td>
<td>COL 7</td>
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<td>17</td>
<td>COL 8</td>
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<td>18</td>
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<td>COL 10</td>
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### P8 MULTI-DROP BUS (MDB)

<table>
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<tr>
<th>Pin #1</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>3</td>
<td>GND</td>
</tr>
<tr>
<td>4</td>
<td>RXD</td>
</tr>
<tr>
<td>5</td>
<td>TXD</td>
</tr>
<tr>
<td>6</td>
<td>GND</td>
</tr>
<tr>
<td>7</td>
<td>NC</td>
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</table>
## Trouble Shooting Chart

**CAUTION:** Certain procedures in the troubleshooting section require that voltage be on in the machine. Exercise extreme caution while performing these procedures to prevent injury.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power</td>
<td>No lights</td>
<td>Check wall outlet for correct wiring, and line cord. See page 2.</td>
</tr>
<tr>
<td></td>
<td>Lights work - no power to board</td>
<td>Check transformer outputs &amp; circuit breakers</td>
</tr>
<tr>
<td></td>
<td>No power to the board</td>
<td>Check wiring connections</td>
</tr>
<tr>
<td></td>
<td>Defective power board</td>
<td>Replace power board</td>
</tr>
<tr>
<td></td>
<td>Display blank</td>
<td>LCM machines-24VAC at white wires at P1</td>
</tr>
<tr>
<td>Won't take coins</td>
<td>No power to machine</td>
<td>Check wall outlet, line cord &amp; voltage</td>
</tr>
<tr>
<td></td>
<td>Defective changer</td>
<td>Replace changer</td>
</tr>
<tr>
<td></td>
<td>Machine only accepts one coin</td>
<td>Machine lost its vend prices - reprice and test</td>
</tr>
<tr>
<td></td>
<td>Defective circuit breaker</td>
<td>Replace circuit breaker</td>
</tr>
<tr>
<td></td>
<td>No power to coin payouts</td>
<td>Replace power board or logic board on LCM machines</td>
</tr>
<tr>
<td>Won't payout coins/incorrect change returned</td>
<td>No voltage</td>
<td>Check voltages</td>
</tr>
<tr>
<td></td>
<td>Defective power board</td>
<td>Replace power board</td>
</tr>
<tr>
<td></td>
<td>Defective coin mechanism.</td>
<td>Replace coin mechanism.</td>
</tr>
<tr>
<td></td>
<td>Jammed coins in tube</td>
<td>Remove coins with power off</td>
</tr>
<tr>
<td>Won't take bills</td>
<td>No coins in coin tubes</td>
<td>Fill coin tubes</td>
</tr>
<tr>
<td></td>
<td>Belts or stacker doesn't run on power-up</td>
<td>Check for 24 VAC at PI</td>
</tr>
<tr>
<td></td>
<td>Belts run-bill goes half way but won't accept</td>
<td>Replace validator</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Says make another selection</td>
<td>Motor ½ cycled</td>
<td>Home motor and retry /LCM do mode 5 test vend</td>
</tr>
<tr>
<td></td>
<td>Selection lost its price</td>
<td>Reset prices</td>
</tr>
<tr>
<td></td>
<td>Motor won't turn</td>
<td>Swap shelves with another shelf and retry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check shelf harness connection to board</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check 24VAC to logic board at PI</td>
</tr>
<tr>
<td>Use correct change</td>
<td>Coin tubes empty</td>
<td>Re-fill coin tubes</td>
</tr>
<tr>
<td></td>
<td>Says use correct change with coin tubes full</td>
<td>Replace coin mechanism</td>
</tr>
<tr>
<td>Spirals turn more than one turn</td>
<td>Capacitor discharging current</td>
<td>Re-solder capacitor or replace motor</td>
</tr>
<tr>
<td></td>
<td>Loose wire on motor</td>
<td>Repair wire</td>
</tr>
<tr>
<td></td>
<td>Defective motor switch</td>
<td>Replace switch</td>
</tr>
<tr>
<td></td>
<td>Defective control board</td>
<td>Replace control board</td>
</tr>
<tr>
<td>More than one motor turns together</td>
<td>One of the motor wires is shorting out</td>
<td>Check each individual motor for loose or pinched wire</td>
</tr>
<tr>
<td></td>
<td>Defective control board</td>
<td>Replace control board</td>
</tr>
<tr>
<td></td>
<td>Incorrect vend motors installed</td>
<td>Black bodied motors for LCM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ivory bodied motors for 110 series</td>
</tr>
<tr>
<td>Unable to enter service mode</td>
<td>Check plugs on control board</td>
<td>Power down and remove and install connectors</td>
</tr>
<tr>
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<td>Defective changer</td>
<td>Replace changer</td>
</tr>
<tr>
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<td>Defective main board</td>
<td>Replace board</td>
</tr>
<tr>
<td>Coin mechanism jackpots</td>
<td>Incorrect voltage</td>
<td>Check voltages± 10%</td>
</tr>
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<td>Defective coin mechanism</td>
<td>Replace coin mechanism</td>
</tr>
<tr>
<td></td>
<td>Defective board</td>
<td>Replace control board</td>
</tr>
<tr>
<td>Motor doesn't home on door close</td>
<td>No voltage</td>
<td>Check for correct voltages</td>
</tr>
<tr>
<td></td>
<td>Defective board</td>
<td>Replace board</td>
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