SNACKSHOPLCM5SNACKSHOPLCM5SNACKSHOPLCM5SNACKSHOPLCM5SNACKSHOPLCM5

instruction manual for

SNACKSHOP LCM5



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

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길고린		WARRANTY	
acertendendendendendendendendendenden	ma per onl rep aut	tomatic Products international ltd. (APi) expressly warrants these automatic merchandisers (the "Unit"), anufactured by it, to be free under normal use and service from defects in material or workmanship for a riod of two (2) years from the date of delivery of this Unit to the original purchaser. This warranty extends by to the original purchaser of the Unit. The exclusive remedy for this warranty is limited to the repair or blacement, at APi's sole option, of any part or parts of the Unit that are returned to APi or to the thorized dealer or distributor of APi from whom the unit was purchased with all transportation charges epaid, and which, on APi's examination, shall, conclusively appear to have been defective. This warranty es not:	المحمومون
리미리		es not. 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;	DDD
고고고	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;	DDD
리리티	C.	extend to a Unit which has been repaired or altered by anyone other than APi or authorized dealer/distributor;	리미미
고민	d.	extend to a Unit which has had the serial number removed, defaced or otherwise altered;	밀
리고디	e.	extend to plastic or glass windows, lamps, fluorescent tubes and water contact parts;	
리미	f.	extend to any unit used outdoors;	
리고	g.	extend to accessories used with the Unit that were manufactured by some person or entity other than APi.	ومومو
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199999999	obl	i reserves the right to make any changes or improvements in its products without notice and without ligation, and without being required to make corresponding changes or improvements in Unit theretofore anufactured or sold.	لمحمومو
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Sna	ckek	oon LCM has been designed from superior engineering and with quality throughout. It has been built of ru	aaad

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.

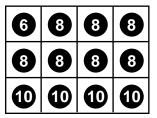
Should you have any questions pertaining to this manual or the vendor, please contact your local Automatic Products Company distributor or write directly to:



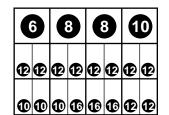
	OL-SETUP AND OPERATION DE SWITCH ONCE TO ENTER SERVICE MODE.
THEN	N PRESS APPROPRIATE BUTTON ON
	DOOR FRONT SELECTION PAD.
COIN DISPE	NSING
PRESS NO.1 -	PRESS [A] DISPENSES 25¢ COIN
	PRESS [B] DISPENSES 5¢ COIN
	PRESS [C] DISPENSES 10¢ COIN
	PRESS [D] DISPENSES \$1.00 COIN
	BILITY
PRESS NO. 3 -	PRESS [A] TOTAL VEND COUNT
	PRESS [B] TOTAL CASH
	PRESS [C] TOTAL CAN VENDS
	PRESS [D] TOTAL CASH CANS
PRICE SETT	-
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.
TEST VEND	NOTE: PRICING "00" IS FREE VEND.
-	(DISPLAY WILL SHOW "SLCT")
	PRESS DESIRED SELECTION
	TO BE TEST VENDED.
	IO DE TEST VENDED.
VEND MODE	
PRESS [E]	
	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.

LCM capacities _

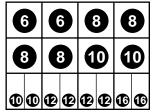
Unless otherwise specified machine will be shipped with spiral assortment shown below. Figures in circles represent capacities in each spiral.



MODEL LCM5 - 312 Capacity as shown: 102 units



MODEL LCM5 - 320 Capacity as shown: 230 units



MODEL LCM5 - 316 Capacity as shown: 164 units

Ð	Ð	Ð	Ð	Ð	Ð	Ð	Ð
Ð	Ð	Ð	Ð	Ð	Ð	Ð	Ð
9	Ð	Ð	Ð	G	6	6	6

MODEL LCM5 - 324 Capacity as shown: 296 units

PRODUCT SIZE CAPABILITY

Shelves	Height	Width of Snack Shelves Only	Width of Candy Shelves Only	Depth of Snack Spirals Only Choice:	Depth of Candy Spirals Only Choice:
Top Second Third	7-3/4" 7-1/4" 6-3/8"	2-1/2" to 5-1/4" 2-1/2" to 5-1/4" 2-1/2" to 5-1/4"	1" to 2-14" 1" to 2-14" 1" to 2-14"	4-Item Spiral 3" 6-Item Spiral 2-3/32" 8-Item Spiral 1-9/16" 10-Item Spiral 1-7/32"	3-Item Spiral 3-15/16" 6-Item Spiral 1-15/16" 8-Item Spiral 1-1/2" 10-Item Spiral 1-1/8" 12-Item Spiral 15/16" 16-Item Spiral 11/16" 20-Item Spiral 1/2"

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

Using 330 ml Cans (European)		Using 355 ml Cans (Domestic)
15 Cans in Long Track		15 Cans in Long Track
9 Cans in Short Track		8 Cans in Short Track
96 Cans Total (8 select)	72 Cans Total (6 select)	92 Cans Total (8 select)

88 cans vendable with one can in each column by sold out switch (8 select).

66 cans vendable with one can in each column by sold out switch (6 select).

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 $+50^{\circ}$ 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 $+80^{\circ}$ C. The above spec assumes the machine is not in direct sunlight.

unpacking

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

WATCH THROUGHOUT THE MANUAL FOR THIS SPECIAL ◆ DIAMOND MARK.THIS INDICATES A POINT OF SPECIAL INFORMATION OR A HINT THAT WILL ASSIST YOU IN SETTING UP, OPERATING OR TROUBLESHOOTING THE MACHINE.



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 at 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 at left.

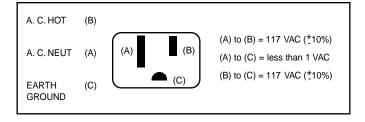
installation_

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: THIS MACHINE IS DESIGNED FOR INDOOR USAGE ONLY. ANY OTHER USAGE MAY VOID THE MANUFACTURERS WARRANTY.

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



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

installation

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.

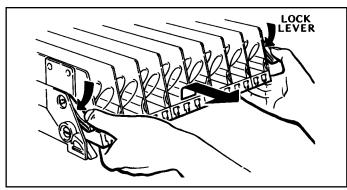


Figure 1. Moving shelf into loading position.

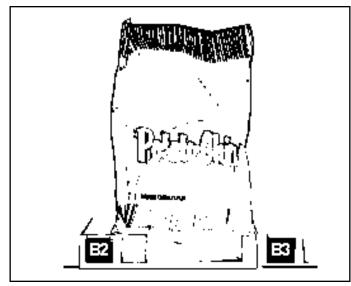


Figure 2. Placement of product on main product snack shelves and front end position of spiral.

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.

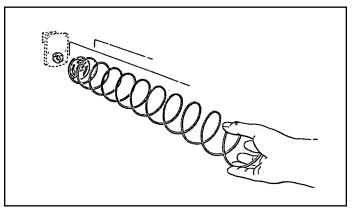


Figure 3. Removing and installing spiral.

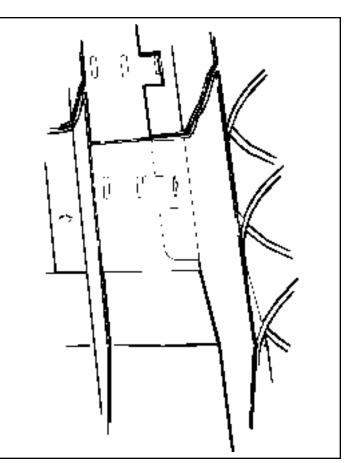


Figure 4. Alignment of moveable product spacers.

installation

- 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

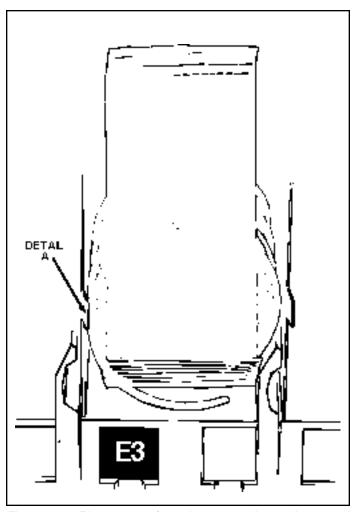


Figure 5. Placement of product on main product candy shelves and front end of spiral.

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.

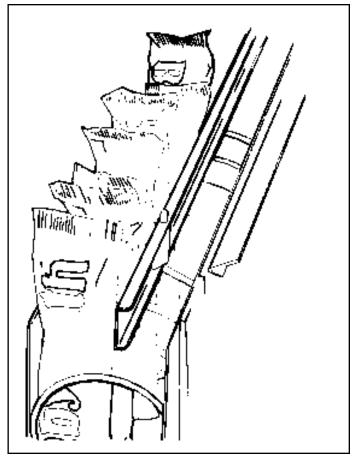


Figure 6. 8-selection shelf product spacer positioned to hold candy upright.

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)

installation

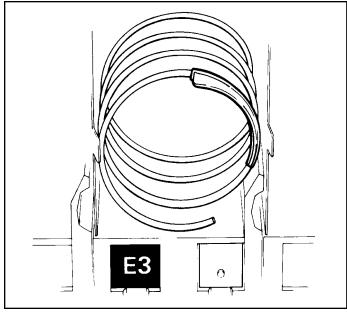


Figure 7. Location of product pusher on spiral.

- 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.*)

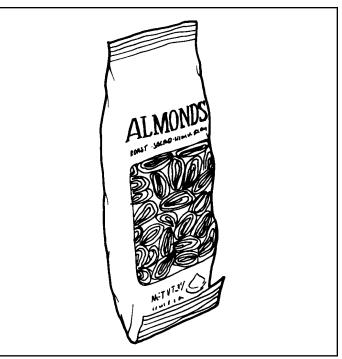


Figure 8. Folded bagged items bottom edge forward and up.

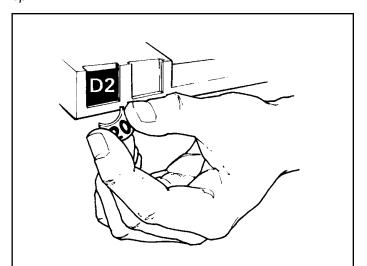


Figure 9. Installing price tabs.

program operation



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

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, diagnositics will be diaplayed 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.



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

- 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.



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

- 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 [Al 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.

NOTE: The digital vend counter will rollover after 99,999,999 and the cash counter will rollover after \$999,999.95.

- c. Press button [C] to display total can vend counts. The display will show total cans vended the same way as step "A".
- d Press button [D] to display total can cash sales. The cash counter works the same way as step "B" above.
- e. To exit this mode, press another function key or leave the service mode by pressing the mode switch.
- f. Press button [D] to display bill. Press [D] again. IMPORTANT!! Must be set on 20 for 5¢ increments.



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

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 (\blacktriangle) button or decreased with the scrolling down ($\mathbf{\nabla}$) 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.

- a. In the Service mode, press [4] (displays "Prc").
- b. Press selection item to be priced (displays current price "xx.xx").
- c. Using the up (\blacktriangle) 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.



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

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.

- a. In the Service mode, press [5] (displays "SLcT").b. Press the motor selection to test vend (machine will
- display selection and cycle motor unless vend test fails, which would display "FAiL"). 6

program operation _

- 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 ("FcrY") and force vend disabled ("Frcn").

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).
- 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.
- 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.

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 "CAnY")
 Press [D] again to toggle between "CAnY" and" CAnn".
- e. Press key [F] Free Vend. (displays "FREY" or "FREN") Press key [F] again to toggle between Free Vend Enable ("FREY") 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 "CAnY".

- 1. Operate (vending mode)
- 2. Change payout
- 3. Accountability
- 4. Price setting
- 5. Test vend
- 6. Vend option
- 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 with 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

components

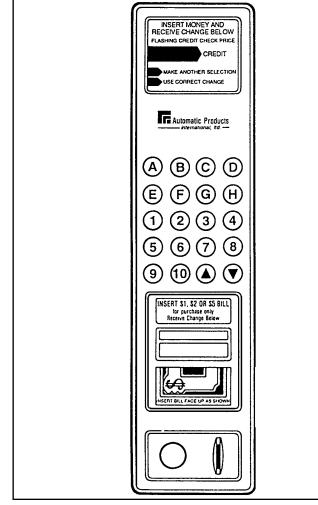


Figure 10.

the status of the selection. If the accumulated price and the motor is present, a vend attempt will be made for that selection. During this time, the selection will be shown on the display. If credit is less than the selection price, the price will be flashed for 3 seconds or until an alpha key is pressed. If the motor is flagged as bad, the selection and the "MAKE ALTERNATE SELECTION" LED will be flashed for 3 seconds or until an alpha key is pressed.

- d. Change Payment. Following a successful vend, the amount of change to be returned will be displayed for 2 seconds or until all coinage is paid back. A least coin payout algorithm will be implemented.
- e. Use Correct Change LED. If the changer's least value coin tube is empty, the "USE CORRECT CHANGE" LED will be illuminated continuously.
- 6. Selection Panel. The selection panel (Figure 10.) on the Snackshop LCM incorporates that use of a self enclosed membrane switch panel. This eliminates the need for individual switches and wiring. The membrane switch panel is housed in a panel with individual buttons protecting the switch face. The panel front also houses the display lens. The display lens gives instructions to the customer for 2 conditions which might occur (make another selection/use correct change). The display lens also contains 3 LED lights.

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 flourescent 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.

components

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.

CAUTION:

Do not use any cleaners containing silicon, as this could cause electrical failures.

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.

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 oading 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 my 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.

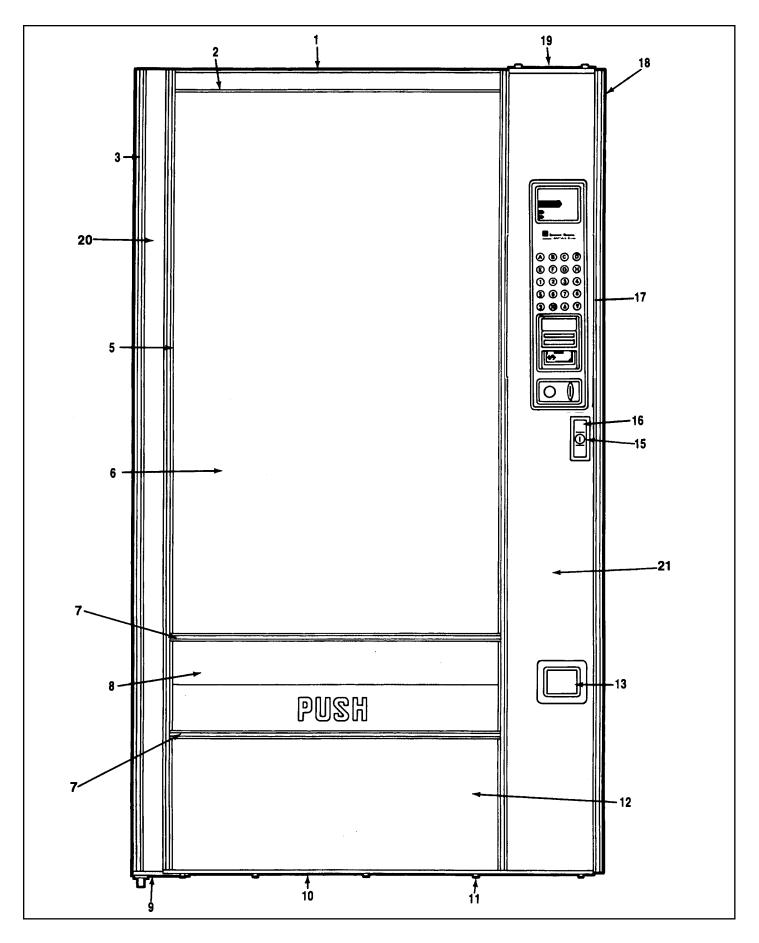
9. Bill Validators. The API 120/320 Series supports the following 24 volt MDB Bill Validators:

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

Multi Drop Bus Validators			
Coinco	BA32SA		
	BA32R		
Mars	VN-2502-U5M		

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

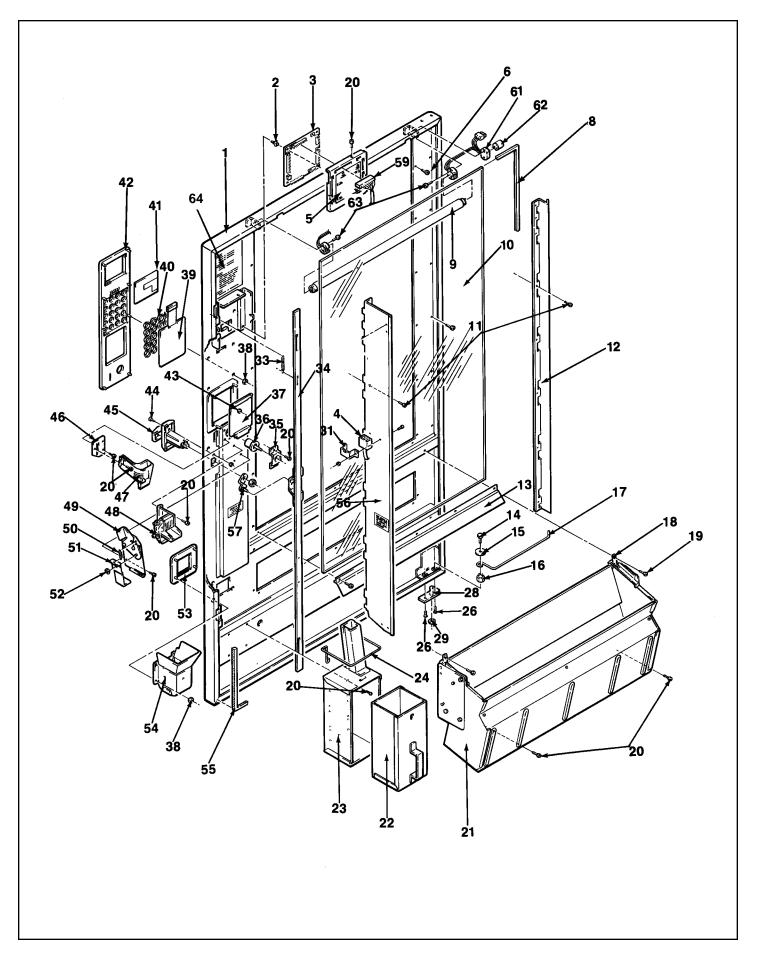
door - outside front _____



door - outside front

Item No.	Part No.	Description	ltem No.	Part No.	Description
			-		•
1	340044-10		15	420071	Ace Lock W/2 Keys.
2	201690-3	Top Trim Insert.Hide Black.	16	660319	Assembly Lock Handle W/Lock Arm & Nut.
	201690-14	Top Trim Insert. Dark Gray.	47	420146	Lock Handle Only.
3 5	340057-2 340058-46	Trim Outside Vertical.Black. Right & Left Side.	17 18	440444	Bezel Ring.
6	750141-1	Trim Vertical. window. Black, Right & Left Side. Front Window. (44 5/8 x21 9/16 x 1/8).	10	600807 600807-1	Door Only. Square. Specify Color Door Only. Square w/Van
0	750141-1	NOTE: Replacement Glass Must Be		600822	Door Only. European. Specify Color.
		HardTempered or Lexan Only.		600822-2	Door Only. European Style. Specify Color.
7	340058-12	Trim Horizontal.Window. Black.			w/Door Guard
8	201356-2	DeliveryTray Panel.True Grit Black.		600599-1	Door Only. With Validator Hole And Debit
	201356-42	Delivery Tray Panel. Dark Gray.			Card Use. Specify Color. European
9	640012	Assembly, Lower Door Hinge Plate.	19	201678-7	Top Lock Door Edging.
10	201678-2	Bottom Door Edging.	20	202059-28	Panel, Left Side Vertical. Painted. Specify Color.
11	420186	Screw Pan Hd.Drill Pt. (6-20 x 1/2) Qty.4.		202059-49	Panel, Left Side Vertical.White.
12	201692-15	Lower Horizontal Panel. Black.		202059-51	Panel, Left Side Vertical.Dove Gray.
13	201692-55	Lower Horizontal Panel.Dark Gray. Coin Cup Trim.	04	202059-53	Panel, Left Side Vertical Sterling Royce.
13	660581 660581-1	Coin Cup Trim. Coin Cup Trim.Medium Gray.	21	12000205-21	Panel, Right Side Vertical.Upper. Painted. Specify Color.
	440411	Coin Cup Trim. Black		202806-60	Panel, Right Side Vertical. Upper. White.
	440411-1	Coin Cup Trim.Gray		12000205-14	
	440412	Coin Cup Door		12000205-15	Panel, Right Side Vertical. Upper.
					Sterling Royce.
				750202	Point of Sale Window Add On Kit (not shown)

door - inside front

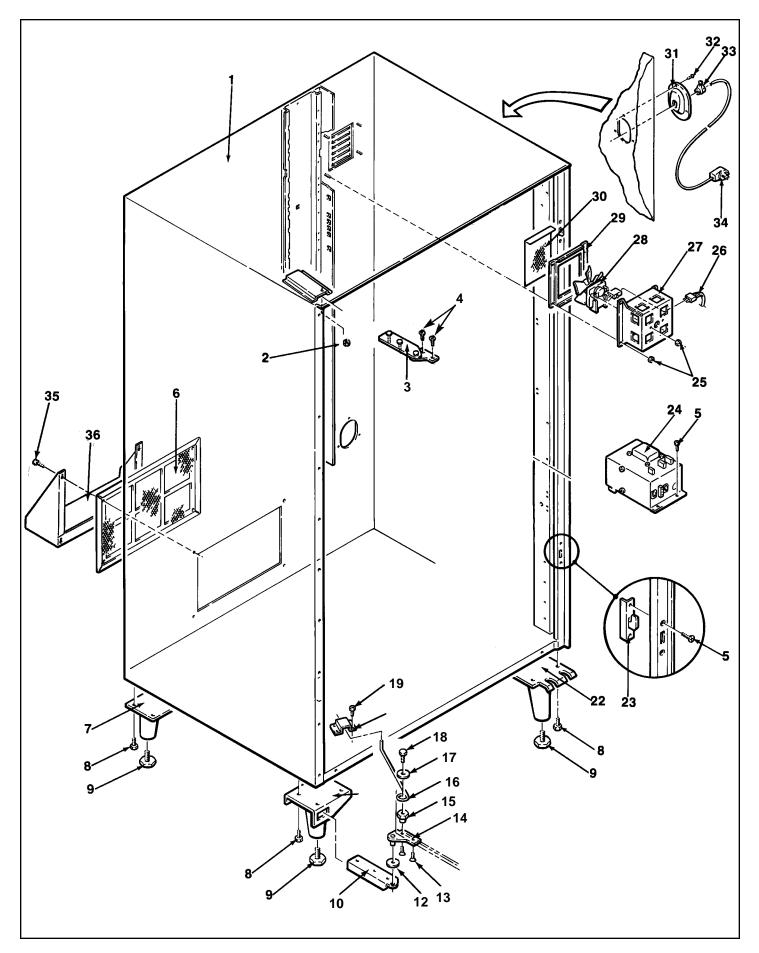


door - inside front

Item		
No.	Part No.	Description
1	600822	Door Only, Euro Style, Specify Color
	16000040	Door Only, Standard, Specify Color
2 3	420303	Control Board Stand-off Control Board w/MDB
3	360206	(Requires Cover 202325)
4	680547	Harness Changer Plug-In
-	680567	Harness Changer Plug-In, Executive Export
	680576	Harness MDB
	420303	Control Board Stand - Off
5	202325	Control Board Cover Only
	660528	Control Board Cover w/Decal
	460628	Decal Only
	460671	Decal, Dutch
6	201-6R7	Screw, Round Head, Phillips, Type B (6-18
		x 7/16), Quantity - 2
7	680512	Assembly Complete, Lamp Harness
8	460436	Insulation, Rubber, 143" (Order length needed)
9	380022-5	Lamp, Fluorescent (F18T8 CW-24)
10	750141-1	Window, Front (44-5/8 x 21-9/16 x 1/8)
		NOTE: Replacement Glass Must Be Hard
	400570	Tempered or Lexan Only.
11	460570 201-6R11	Decal, "Cool-Cool" (not shown) Screw, Round Head, Phillips, Type B (6-20 x 11/16)
12	201-0611	Shield & Window Clamp
13	201381-3	Window Clamp, Bottom
14	114-41-8	Screw, Hex Head, Machine (1/4-20 x 1/2)
15	420010-10	Washer
16	300156	Nut, Special, Door Stop Anchor
17	400090	Door Stop
18	200906	Delivery Bin Anchor Strap
19	217-8R10	Screw, Pan Head, Phillips, Type A (8 x 5/8)
20	210-8R6	Screw, (8-32 x 3/8)
21		Assembly Complete, Delivery Bin (See page
		25 for itemized parts)
22	600179-1	Cash Box
23	600714	Cash Box Mounting Bracket
24	400180	Cash Box Retainer
25	420003-1	Screw, Flat Head (1/4-20 x 1/2)
26 27	420003 420040-9	Screw, Flat Head (1/4-20 x 3/4) Hole Plug
28	420040-9 640157	Lower Hinge Plate
20	420010-18	Washer
31	202024	Changer Socket Bracket
	202775	Loading Barricade Closer (Not Shown)
32	380023	Starter (FS-25)
33	400112	Spring Locking Bar
34	600432-3	Locking Bar Only
35	201660	Coin Return Bracket
36	440289	Coin Return Button, Gray
	440289-3	Coin Return Button, Black
37	660370	Assembly, Validator Filler, Black
	660370-3	Assembly, Validator Filler, Gray
38	18443	Nut, Hex Head, 1/4 Self Threading
39	660519	Assembly, Selector Switch Panel
40	440304	Selector Buttons, Quantity - 20

ltem		
No.	Part No.	Description
41	440390	Instruction Glass
	440401	Instruction Glass, French
	440400	Instruction Glass, Mexico
	440402	Instruction Glass, Dutch
	440403	Instruction Glass, German
	440440	Instruction Glass, Italian
	17400005	Instruction Glass, Russian
42	17400007 660517	Instruction Glass, Hungary Assembly Complete, Selector Bezel, Gray
42	660517-1	Assembly Complete, Selector Bezel, Black
	440389-1	Selector Bezel Only, Gray
	440389	Selector Bezel Only, Black
43	404-8	Nut, Hex Head (8-32)
44	118-10-8	Bolt, Carriage (10-24 x 1/2)
45	660319-1	Assembly Complete, Lock Handle w/Lock
		Arm & Nut
46	201712	Coin Chute Bracket
47	440311	Coin Chute, Plastic
48	660488	Assembly, Coin Chute, Plastic
49	660367	Assembly Complete, Coin Return
	640152	Assembly, Coin Return Bracket
50	400007	Spring
51	201703	Coin Return Link
52	751-25	Retaining Ring (1/4)
53	660581	Coin Cup Front Assembly, Black
	660581-1 440411	Coin Cup Front Assembly, Gray Trim, Coin Cup, Black
	440411-1	Trim, Coin Cup, Gray
	440412	Coin Cup Door (not shown)
54	440413	Coin Cup, Plastic
•	440414	Coin Cup, Chute
	660618	Assembly Coin Cup w/Striker Export
	440413	Coin Cup Only Export
	202432	Striker Door Switch Export
	300184	Shoulder Bushing (2) Export
	276-8R6	Screw Pan Hd Self Tap (8-32x3/8)(2)
	400188	Spring Striker Door Switch Export
55	460041	Insulation, Foam (Order length needed)
56	12000010	Window, Side Shield, Lock Side
57	640131	Lock Arm Only
58 59	404-10 680548	Nut, Hex Head (10-24) Harness, Bill Validator Hook-Up
59	680641	Harness Mars MDB 24 Volt
61	680512	Harness, Lamp
01	680456-1	Harness, Lamp (not shown)
62	380023	Starter, FS-25
	380023-4	Starter, FS-11, 240V
63	750097	Lock and Cam for Cash Box. w/2 keys.
		Specify Number.
	420020	Lock w/1 key. Specify Number.
	420069	Cam Cash Box Locking only.
64	460629	Decal Mode Instructions, English
	460672	Decal Mode Instructions, Dutch
	460679	Decal Mode Instructions, Italian
	460680	Decal Mode Instructions, Spain

cabinet - LCM



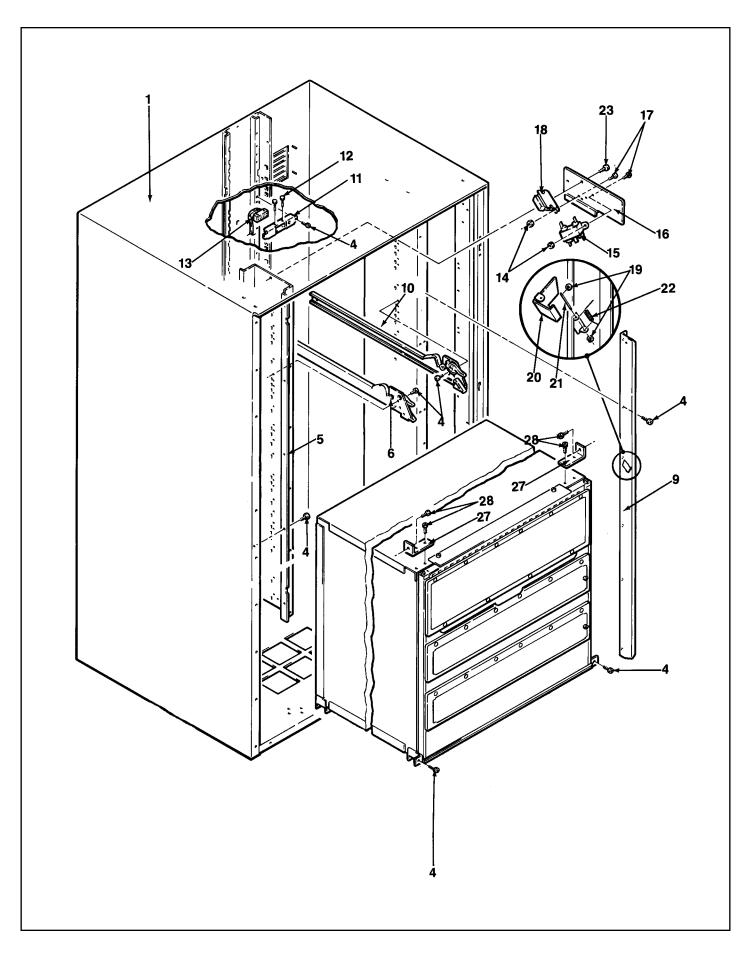
cabinet - LCM

-

ltem No.	Part No.	Description	ltem No.	Part No.	
1	600830	Cabinet Assembly Complete w/legs, Specify	25	404-4	н
		Color, Chill	26	680456-1	н
	600830-1	Cabinet Assembly Complete, w/Legs,	27	202072	F
		Specify Color, Amb.	28	360122-2	F
2	438-41	Nut, Kep (1/4" x 20)		360122-3	F
3	640150	Assembly, Upper Hinge, Specify Color		660441	K
4	420003-1	Screw, Flat Head (1/4-20 x 1/2)		660441-1	K
5	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)		360122-3	Fa
6	16600047	Assembly, Back Screen	29	202070	S
7	600195	Leg Assembly, Rear, Specify Color	20	202235	C S
8 9	420187	Screw, Hex Head, Machine (5/16-18 x 3/4)	30 21	202071 202270	5 P
9	300103 660599	Leg Leveler Leg Leveler Bolt "Multisnack"	31 32	420078-1	P
10	201773	Lower Hinge Support, Specify Color	33	380052-3	S
11	600195	Leg Assembly, Front, Pivot Side, Specify Color	34	16600098	A
12	420010-22	Washer	34	16600099	Â
13	420003	Screw, Flat Head (1/4-20 x 3/4)		10000033	
14	640157	Assembly, Lower Door Plate, Specify Color		16600099-01	
15	300151	Nut, Special. Door Stop Anchor			A
16	400090	Door Stop		16600099-02	A
17	420010-10	Washer			Is
18	114-41 -8	Screw, Hex Head, Machine (1 /4-20 x 1/2)		16600099-03	A
19	200940	Door Stop Bracket			M
22	600197	Assembly, Leg, Front Lock Side, Specify Color	35	276-8R8	s
23	600433	Assembly, Door Lock Catch	36	202690	D
24	660529	Assembly, Junction Box (see page 39-40 for			
		itemized parts)			
	-				-

Part No.	Description
404-4	Hex Nut (8-32)
680456-1	Harness Fan
202072	Fan Housing
360122-2	Fan Motor, 115 Volt
360122-3	Fan Motor, 230 Volt
660441	Kit, Fan Add-On, 115 Volt
660441-1	Kit, Fan Add-On, 230 Volt
360122-3	Fan Motor, 230 Volt
202070	Screen Bracket
202235	Cover Plate, Use w/o Fan
202071	Screen
202270	Power Inlet Cord Plate
420078-1 380052-3	Pop Rivet Strain Relief Bushing w/Screw
360052-3 16600098	Assembly Power Inlet Cord Ambient, 1.5 Volt
16600098	Assembly, Power Inlet Cord, Complete,
10000033	AP/UK, Export
16600099-01	Assembly, Power Inlet Cord, Complete,
	Australia, Export
16600099-02	Assembly, Power Inlet Cord, Complete,
	Israel, Export
16600099-03	Assembly, Power Inlet Cord, Complete,
	Multisnack
276-8R8	Screw Pan HD Phillips (8-32 x 1/2)
202690	Deflector

cabinet _____

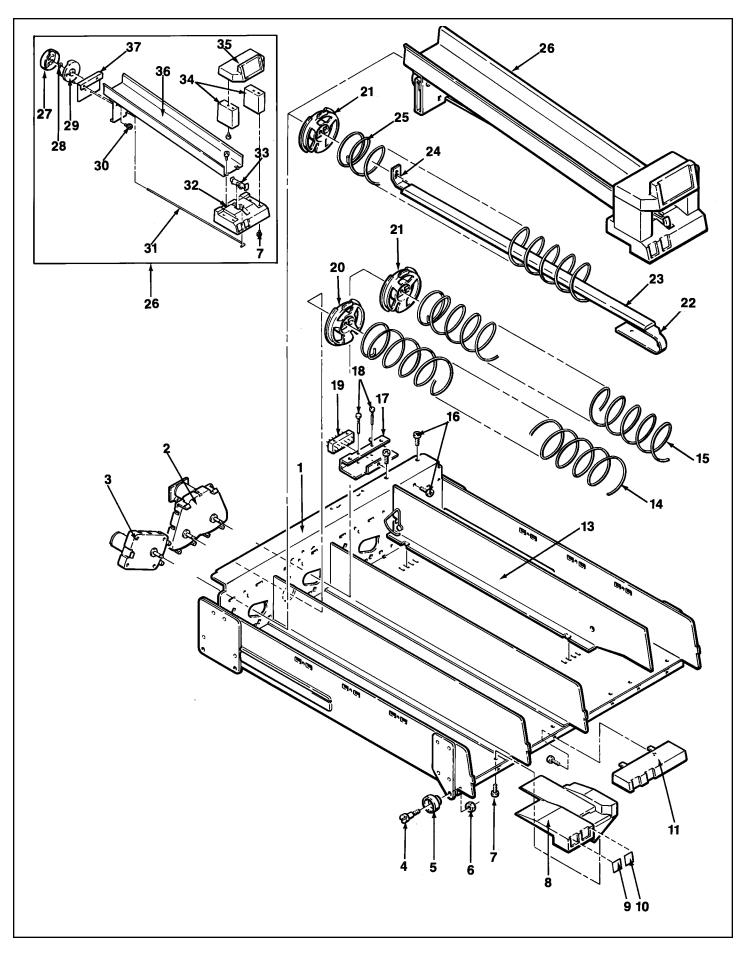


cabinet

Description

ltem No.	Part No.	Description	ltem No.	Part No.	[
1	600830-1	Cabinet Assembly Complete, w/Legs,	20	202376	Latch
		Specify Color.	21	300211	Latch Pivot Pin
4	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)	22	400182	Spring
5	12000008	Shelf Support, Left Front	23	216-41 R8	Screw
6	640177-2	Assembly, Cabinet Shelf Track, Left.	27	202400	Mounting Bracket
	660712	Assembly, Complete, Filler Plate	28	210-8R6	Screw
9	12000009-01	Filler Plate, Right Front			
	16600003	Assembly, Complete, Filler Plate			
10	640177-1	Assembly, Cabinet Shelf Track, Right.			
11	202177	Cabinet Receptacle, Mounting Bracket Only			
12	420142-2	Drive Pin			
13	660516-2	Assembly Complete, Cabinet Back Harness,			
14	404-6	Nut, Hex Head (6-32)			
15	380303	Assembly, Line Filter			
16	16600092	Assembly Complete, Light Ballast & Filter, 115 Volt			
	16600092-03	Assembly Complete, Light Ballast & Filter, 230 Volt, All LCM			
	202251	Cover Mounting Plate Only			
17	210-8R6	Screw, Pan Head (6-32 x 3/8)			
18	680514	Ballast Only, 115 Volt			
	680513-2	Ballast Only, 230 Volt, All LCM			
19	751-9	Retaining Ring			

snack shelf _____

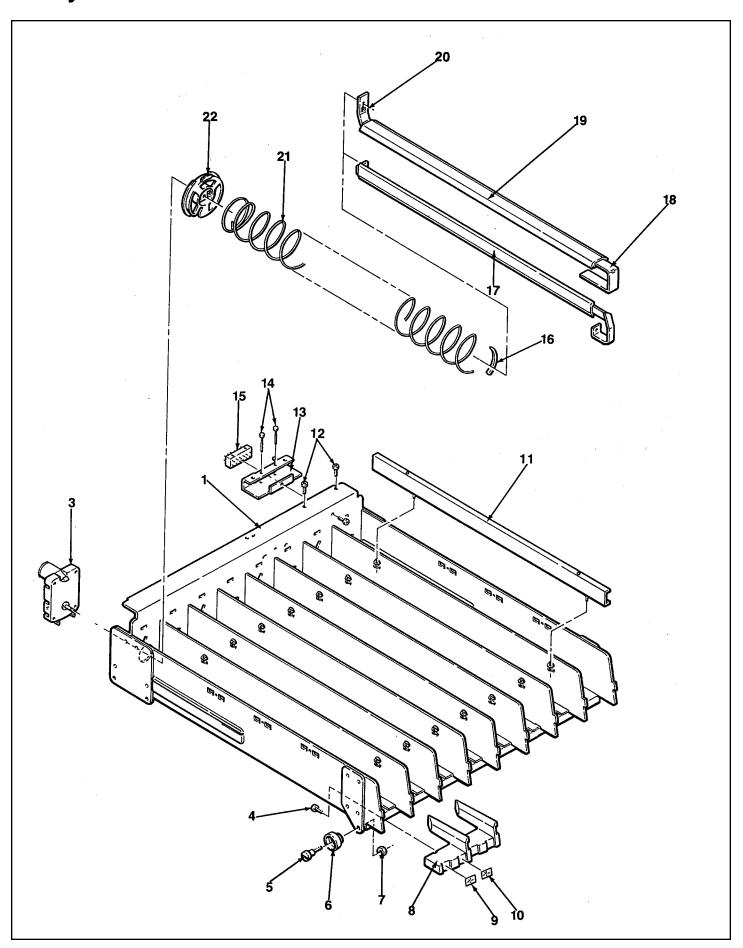


_snack shelf

ltem No.	Part No.	Description	ltem No.
1	750121-8 660687	Assembly Complete, Snack Shelf w/o Spirals Assembly Complete, Snack Shelf w/o Spirals, Chill	18 19
2 3 4	750162-7 600819 600267-5 750159-1 360169-1 360138-1 300203	Assembly Complete, Dual Snack Shelf Snack Shelf Only, Chill Snack Shelf Only, AMB Kit, Dual Spiral Add-On Dual Spiral Motor Only, Black & White Vend Motor Complete Gray & White Screw, Shelf Roller	20 21 22 23 24 25
5 6 7 8 9 10	440362 437-41 305-8R6 440285 460346 460347 460602 14600010	Shelf Roller Nut, Keps (28 x 1/4) Screw, Pan Head, Phillips, Plastite (8-16 x 318) Tab Holder, Price & Selection Tab, Item Tab, Price, Assorted, 25¢ - \$1.50 Tab, Price, Assorted, \$3.10 - \$4.05 Tab, Price, Assorted (\$3.75 - \$5.50)	26 27 28 29 30
11 13	440367 202770-1 640101-1	Dual Spiral Pastry Shelf, Front Only Snack Shelf Extra Extension (Not Shown) Spacer, Snack Shelf	31 32
14	400184-1 400186-1 400174-1 400175-1 400176-1 400183-1	Short Spiral, Left Hand, 4 Space, Chrome Short Spiral, Left Hand, 3 Space, Chrome Dual Spiral Only, Left Hand, 6 Space, Chrome Dual Spiral Only, Left Hand, 8 Space, Chrome Dual Spiral Only, Left Hand, 10 Space, Chrome Short Spiral, Right Hand, 4 Space, Chrome	33 34 35 36 37
16 17	400185-1 400173-1 400116-1 400117-1 276-8R6 600601	Short Spiral, Right Hand, 3 Space, Chrome Dual Spiral Only, Right Hand, 6 Space, Chrome Dual Spiral Only, Right Hand, 8 Space, Chrome Dual Spiral Only, Right Hand, 10 Space, Chrome Screw, Pan Head, Self Tap (8-32 x 3/8) Shelf Plug, Bracket Only	

em Io.	Part No.	Description
18	420142-2	Pin Drive
19	660435-5	Assembly Complete, Harness and Plug Bracket
	680446	Harness, Pastry Shelf Only
20	440366	Spiral Retainer, Left Hand, Gray
	440287	Spiral Retainer, White
	201534	Front Support Only
	660330-3	Assembly, Product Rail, Pastry
	440148-2	Plastic Product Rail Only
24	200913	Rear Support Bracket Only, Pastry Spiral
25	400124-1	Snack Spiral, 6 Space, Chrome
	400125-1	Snack Spiral, 8 Space, Chrome
	400126-1	Snack Spiral, 10 Space, Chrome
	400165-1	Snack Spiral, 4 Space, Chrome
26	750083-1	Kit, Can Dispenser
	440201	Drive Cam, Rear
28 29	751-31 440200	Retaining Ring (31) Drive Cam, Front
30	300184	Bushing, Shoulder
	277-10R8	Screw, Type 23 (10-32 x 1/2)
31	400094-1	Wire, Actuator
	440196	Trim, Price & Selection
	440199	Lever, Stop
	440198	Leg, Top Can Guide & Sign Trim
	440197	Top, Can Guide & Sign Trim
	600308-1	Dispenser, Can, Trough Only
	640109	Cam, Mounting Bracket & Spring Assembly

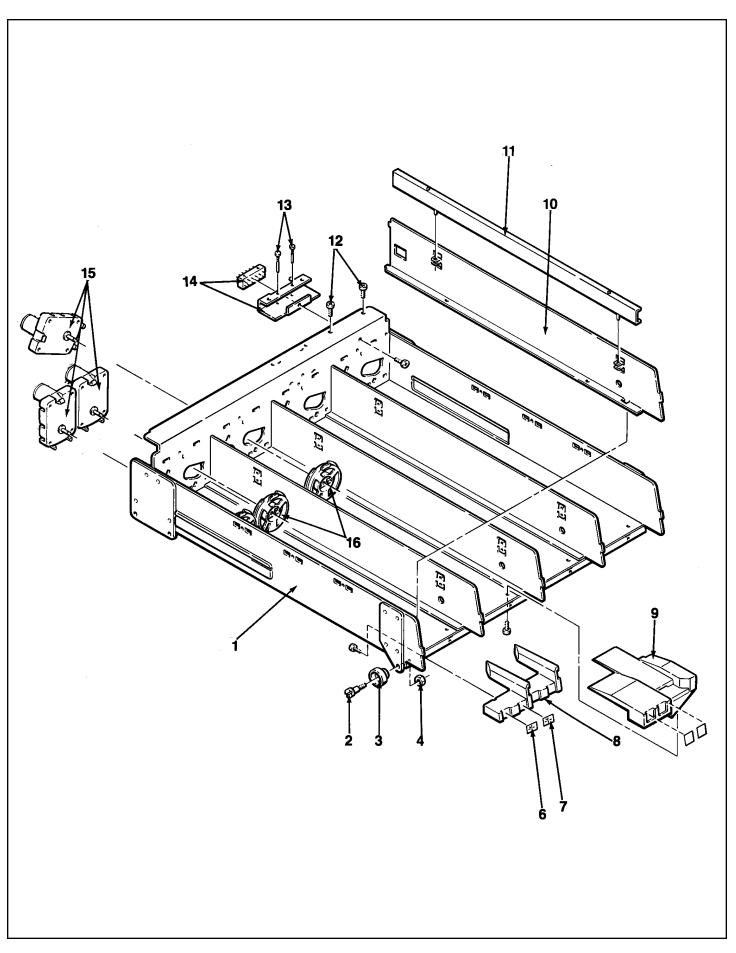
candy shelf_____



candy shelf

No. Part No. Description	
1 750122-9 Assembly Complete, Candy Shelf w/o S 60088 Candy Shelf Only. Candy Shelf Only. 600820 Candy Shelf Only. Chill Sof138-1 3 360138-1 Vend Motor Complete, Gray & White 3 305-876 Screw, Pan Head, Plastite (8 x3/8) 5 300203 Screw, Pan Head, Plastite (8 x3/8) 5 300203 Screw, Shelf Roller 6 440362 Roller, Shelf 7 437-41 Nut, Keps (28 x 1/4) 8 440262 Tab Holder, Price & Selection, Off-se 9 460347 Tabs, Price, Alssorted 25¢ - \$1.50 460347 Tabs, Price, All S0¢ - 35¢ 460347-1 Tabs, Price, All 50¢ - 55¢ 460347-2 Tabs, Price, All 50¢ - 55¢ 460347-3 Tabs, Price, All 80¢ - 85¢ 460347-6 Tabs, Price, All 80¢ - 85¢ 460347-7 Tabs, Price, All \$1.00 - \$1.05 460347-8 Tabs, Price, All \$1.10 - \$1.15 460347-1 Tabs, Price, All \$1.20 - \$1.25 460347-17 Tabs, Price, All \$1.20 - \$1.55	Spirals, Chill e own & Black set

ltem No.	Part No.	Description
	460347-27	Tabs, Price, All \$2.90 - \$2.95
	460347-28	Tabs, Price, All \$3.00 - \$3.05
	460529	Tabs, Price, French
	460540	Tabs, Price, Mexico
	460644	Tabs, Price, English
	460727	Tabs, Price, Italian
11	660178-2	Assembly, Candy Spacer
12	660178-3 276-8R6	Assembly, Candy Spacer, Use w/Half-cycle Motor Screw, Pan Head, Self Tap (8-32 x 3/8)
12	270-0R0 600601	Plug, Shelf, Bracket Only
13	420142-2	Pin, Drive
15	660435-4	Harness & Bracket Complete
	680447-1	Harness, Candy Shelf Only
16	440141-1	Product Pusher, Candy
17	660296-1	Guide, Small Product
	660296	Guide, Small Product
	660503-1	Assembly, Product Rail, Half-cycle Motor
18	201258	Front Support Only
19	660191-2	Assembly, Product Rail, Candy Spiral
20	440148-2	Plastic Product Rail Only
20 21	200913 400116-1	Rear Support Only Spiral, Candy, 18 Space
21	400110-1	Spiral, Candy, 10 Space
	400118-1	Spiral, Candy, 12 Space
	400119-1	Spiral, Candy, 16 Space
	400134-1	Spiral, Candy, 20 Space
	400173-1	Spiral, Candy, 6 Space
22	440287	Spiral, Retainer, White

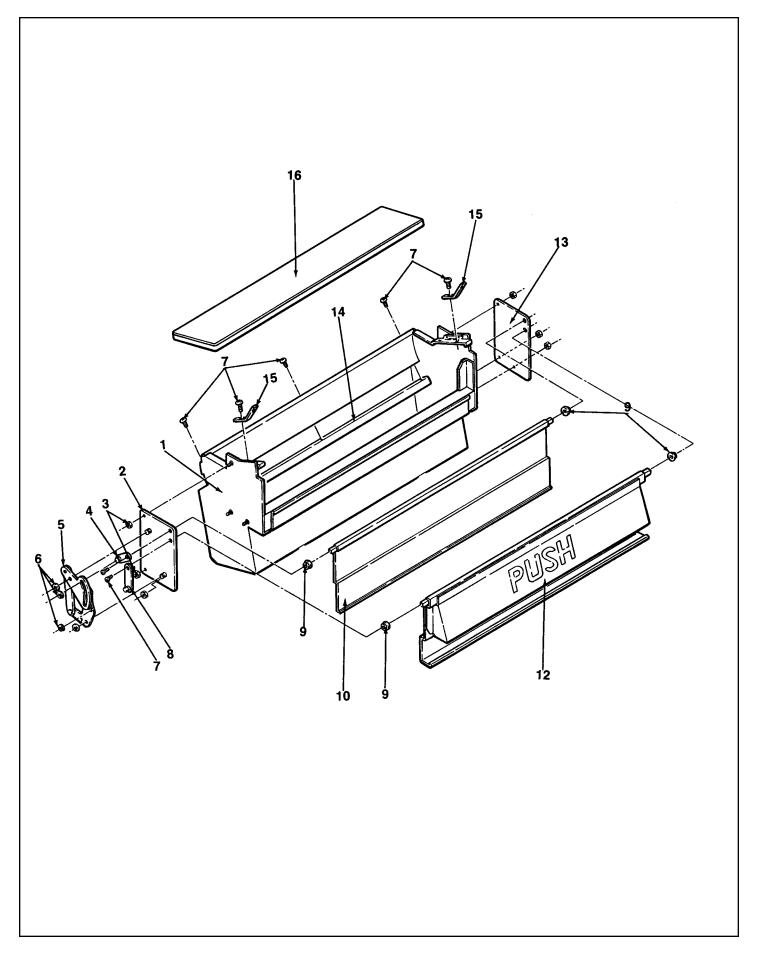


convertible shelf

ltem No.	Part No.	Description
1	750148-10	Assembly Complete, Convertible Shelf
	750148-11	(4 Snack Selections) w/o Spirals Assembly Complete, Convertible Shelf (3 Snack Selections, 2 candy) w/o Spirals
	750148-12	Assembly Complete, Convertible Shelf (2 Snack Selections, 4 Candy) w/o Spirals
	750148-13	Assembly Complete, Convertible Shelf (1 Snack Selection, 6 Candy) w/o Spirals
	750148-14	Assembly Complete, Convertible Shelf (8 Candy Selections) w/o Spirals
	750159-1	Kit, Dual Spiral Add-on w/o Spirals (Use per selection)
2	600819 300203	Convertible Shelf Only Screw, Shelf Roller
2 3	440362	Roller, Shelf
4	437-41	Nut, Keps (28 x 1/4)
5	305-8R6	Screw, Pan Head, Phillips, Plastite (8-16 x3/8)
6	460346	Tabs, Item
7	460347	Tabs, Price, Assorted 25ϕ - \$1.50
	460740 14600010	Tabs, Price, Assorted 75¢ - \$1.25 Tabs, Price, Assorted \$3.25 - \$5.50
	460347-1	Tabs, Price, All $30¢ - 35¢$
	460347-2	Tabs, Price, All 40¢ - 45¢
	460347-3	Tabs, Price, All 50¢ - 55¢
	460347-4	Tabs, Price, All 60¢ - 65¢
	460347-5 460347-6	Tabs, Price, All 70¢ - 75¢ Tabs, Price, All 80¢ - 85¢
	460347-0	Tabs, Price, All 90¢ - 95¢
	460347-8	Tabs, Price, All \$1.00 - \$1.05
	460347-9	Tabs, Price, All \$1.10 - \$1.15
	460347-10	Tabs, Price, All \$1.20 - \$1.25
	460347-11 460347-12	Tabs, Price, All \$1.30 - \$1.35
	460347-12	Tabs, Price, All \$1.40 - \$1.45 Tabs, Price, All \$1.50 - \$1.55
	460347-14	Tabs, Price, All \$1.60 - \$1.65
	460347-15	Tabs, Price, All \$1.70 - \$1.75
	460347-16	Tabs, Price, All \$1.80 - \$1.85
	460347-17	Tabs, Price, All \$1.90 - \$1.95

Item		
No.	Part No.	Description
	460347-18	Tabs, Price, All \$2.00 - \$2.05
	460347-19	Tabs, Price, All \$2.10 - \$2.15
	460347-20	Tabs, Price, All \$2.20 - \$2.25
	460347-21	Tabs, Price, All \$2.30 - \$2.35
	460347-22	Tabs, Price, All \$2.40 - \$2.45
	460347-23	Tabs, Price, All \$2.50 - \$2.55
	460347-24	Tabs, Price, All \$2.60 - \$2.65
	460347-25	Tabs, Price, All \$2.70 - \$2.75
	460347-26	Tabs, Price, All \$2.80 - \$2.85
	460347-27	Tabs, Price, All \$2.90 - \$2.95
	460347-28	Tabs, Price, All \$3.00 - \$3.05
	460529	Tabs, Price, French
	460540	Tabs, Price, Mexico
	460561	Tabs, Price, Spanish
	460644	Tabs, Price, English
	460727	Tabs, Price, Italian
8	440262	Tab Holder, Price/Selection, Offset
		Candy (See page 21, item 8 for Candy Spirals)
9	440285	Tab Holder, Price/Selection, Snack
		(See page 19, item 8 for Snack Spirals)
10	200753-6	Divider, Shelf, Candy
11	660178-2	Assembly, Candy Spacer
12	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
13	420142-2	Pin, Drive
14	660435-3	Harness, Candy Shelf with Plug Bracket
15	360138-1	Vend Motor Complete, Gray & White
16	750150-3	Kit, Convertible Shelf, 2 Selection Add-On
16	440287	Lock, Spiral, White

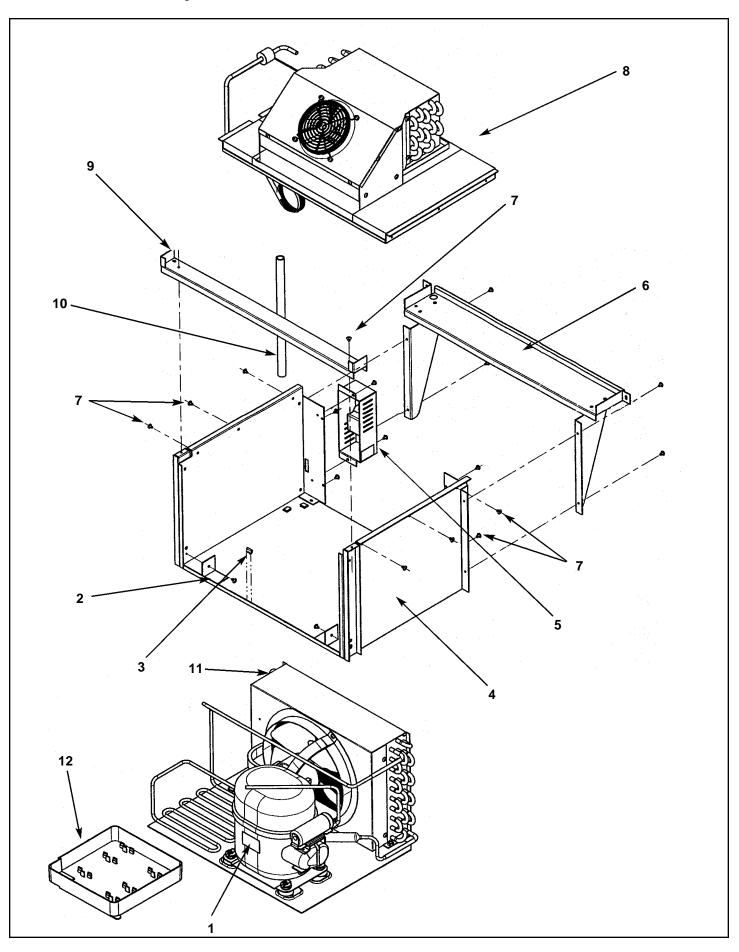
delivery bin _____



_delivery bin

Item No.	Part No.	Description	ltem No.	Part No.	Description
1	660558-3 660558-1	Delivery Bin Assembly, Complete, Gray Delivery Bin Assembly, Complete, Black			
	600704-1	Delivery Bin Only			
2	640187-1	Arm Mounting Bracket			
3	438-8	Nut, Keps (8-32)			
4	640098	Inner Door Bin Arm			
5	640100-1	Bin Door Drive Assembly			
6	751-37	Retaining Ring (37)			
7 8	276-8R6 640097	Screw, Pan Head, Self Tap, Phillips (8-32 x 3/8) Door Drive Arm			
9	440129	Door Bearing			
Ŭ	420282	Bin Door Washer (not shown)			
10	200763-1	Inner Door			
	200763-4	Inner Door, Steel			
12	440373-3	Door, Delivery Bin, Gray			
	440373-1	Door, Delivery Bin, Black			
13	202285	Arm Mounting Bracket			
14	200902-1	Baffle, Rear Delivery Bin			
15	200906	Delivery Bin Anchor Strap			
16	420315-1	Delivery Bin Pad Assembly, Can Dispenser			

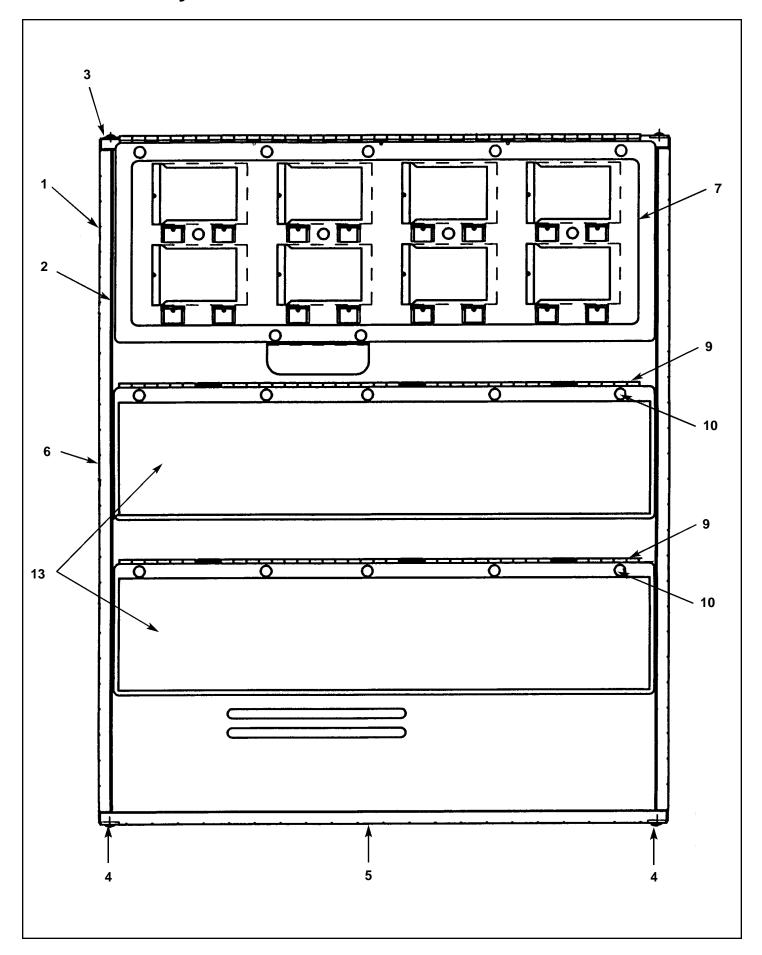
cooler assembly



cooler assembly

ltem No.	Part No.	Description	ltem No.	Part No.	Description
1	16600030 660711	Compressor Unit, Assembly Complete, 115 Volt Compressor Unit, Assembly Complete, Chill 115 Volt			
	16600030-01				
	660711-1	Compressor Unit,Assembly Complete, 230 Volt Chill			
	360269 16700006	Condensing Fan Only, 115 Volt Condensing Fan Only, 230 Volt			
2	202882	Mounting Plate Bracket			
3	460768	Clip-Spring			
4	600832	Chassis Only, LCM5			
5	16600031	Assembly Timer & Snack Control AMB, 115 Volt			
	16600031-01	Assembly Timer & Snack Control AMB, 230 Volt			
6	600833	Front Cooler Support Only			
7	210-8R6	Screw, Phillips #8 x 3/8			
8	16600029 16600029-01	Assembly Evaporator AMB, 115 Volt Assembly Evaporator AMB, 230 Volt			
9	420318	Bushing			
10	440318	Drain Tube			
11	660704-2 660704-3	Assembly Condensing Unit, 115 Volt			
12	660704-3 440459	Assembly Condensing Unit, 230 Volt Evaporating Pan			
12	440459 660692	Vent Screen (Not Shown)			
	000092				

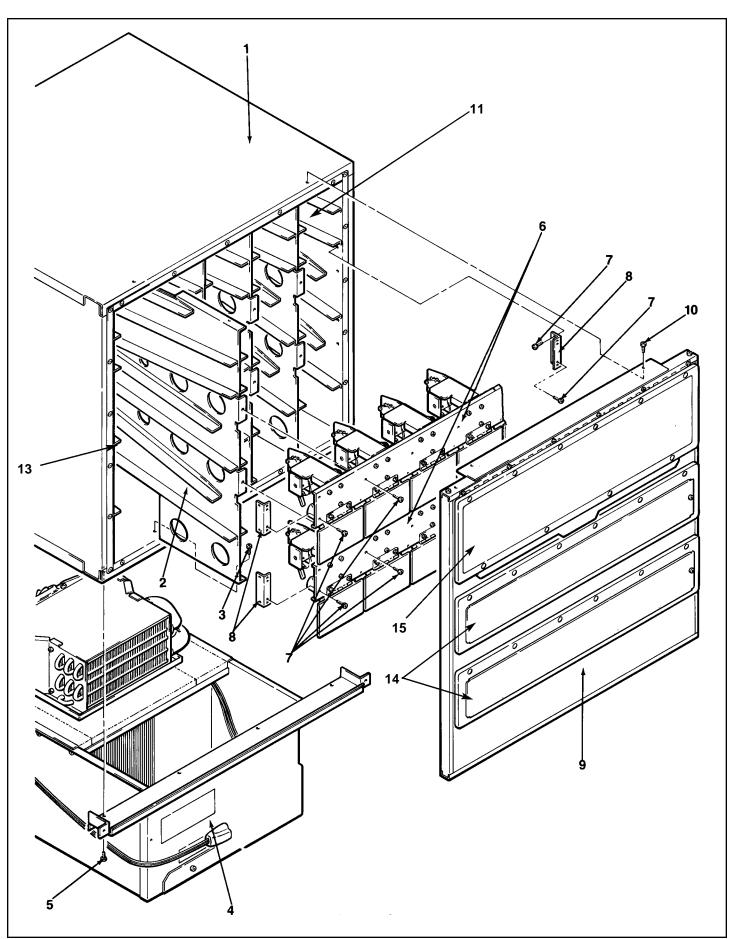
door assembly _____

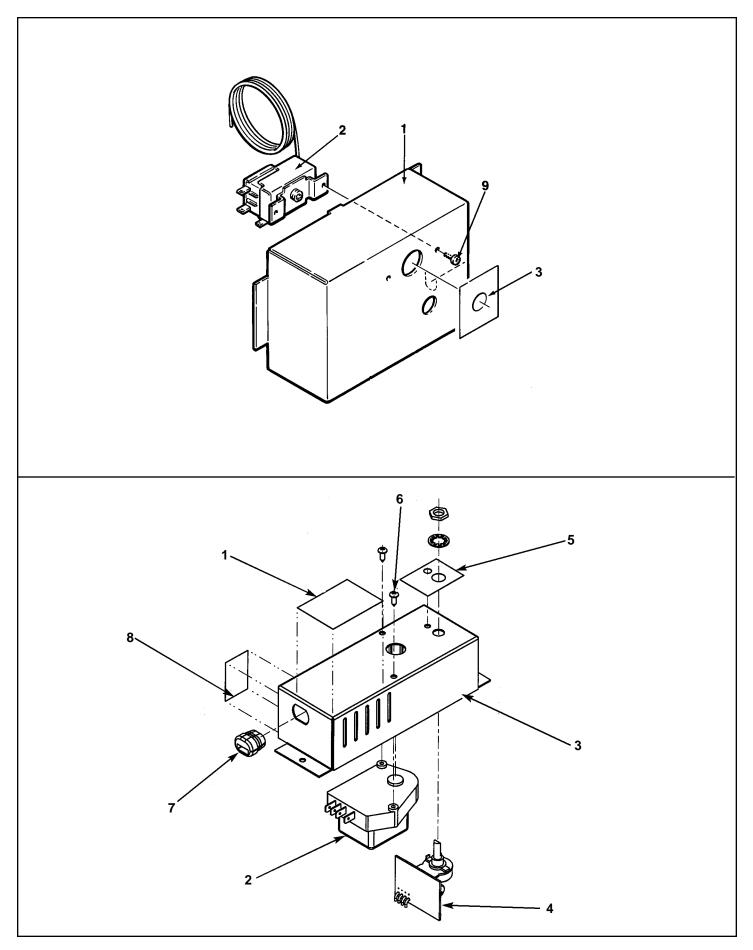


_door assembly

ltem No.	Part No.	Description	ltem No.	Part No.	Description
1 2 3 4 5 6 7 8 9 10 12 13	660710 440457 420431 600831 210-8R6 202871-1 202394 660707 210-8R6 460770 217H6R8 217H6R5 440398 440398-1 660706 440456 420429	Front Panel Cooler Assembly, Chilled & not Chilled, (includes items 1-15) Frame, Front Panel, Chilled Gasket Top Support Weldment, Cooler Front Screw, Truss Head, Type A (8 x 3/8) Bottom Support, Cooler Front Service Door Assembly (see page 35) Screw, Truss Head, Type A (#8 x 3/8) Hinge Assembly, Vend Door, Complete Screw (6 x 1/2) Screw (6 x 5/16) Shoulder Nut, Plastic 31/32 (Not Shown) Shoulder Nut, Plastic 11/32 (not Shown) Vend Door Assembly (see page 35) Vend Door Only Vend Door Gasket			

cooler unit _____





_cold control

ltem No.	Part No.	Description
1	660693	Control Assembly, 115V (includes items 1-7)
	202849	Cold Control Housing Only, 115V
	202366	Cold Control Housing Only, 220/240V
	460642	Decal, Voltage Disconnect (Not Shown)
2	360204	Cold Control Switch
	680648	Cold Control Harness (Not Shown)
3	460571	Label, Cold Control
4	276-8R6	Screw, Pan Head (8-32 x 7/16)

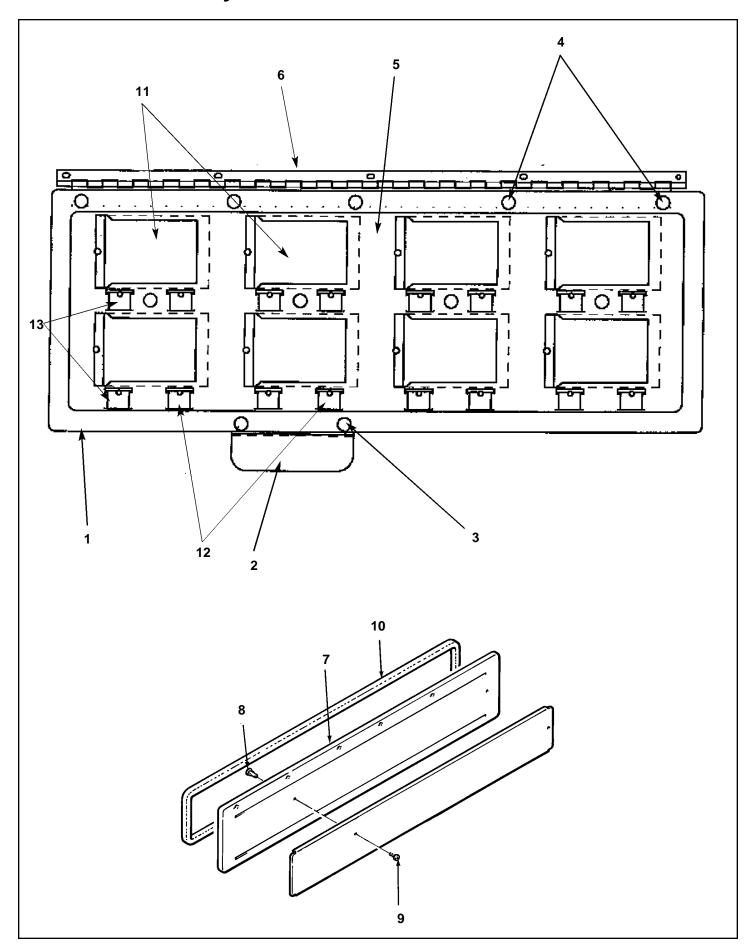
ltem No.	Part No.	Description

-

_____ timer assembly

ltem No.	Part No.	Description	ltem No.	Part No.	Description
1 2 3	16600031 16600031-02 660690-2 16600031-01 460642 380320 380320-01 380320-02 202844 680650	Assembly Complete. Timer/Snack Control. 115V Assembly Complete. Timer/Snack Control.220V Assembly Complete. Timer/Snack Control. 220V. Chill Assembly Comlete. Timer/Snack Control. 208/240V - 50 HZ Decal, Voltage Disconnect Defrost Timer 115V Defrost Timer 208/240V Defrost Timer 200V Defrost Timer Box Only Defrost Timer Harness LCM5 Chill (Not Shown)	4 5 7 8	360248 460709 380293 201-6R7 380052-5 460458-03	Assembly Fan Control PC Board LCM4/5 Chill Label, Snack Section Cold Control Molex Plug. 4 Pin (Not Shown) Screw, Right Hand, Type B #6 x 7/16 Strain Relief Bushing Voltage Decal 208/220/240

can door assembly_____

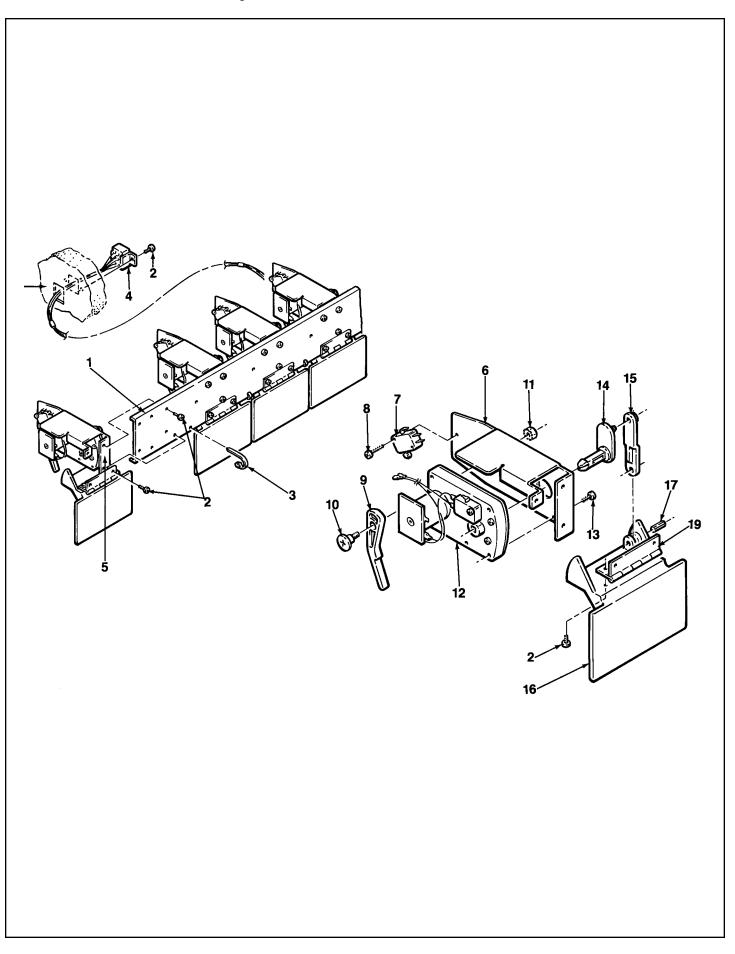


____ can door assembly

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ltem No.	Part No.	Description	tem No.	Part No.	Description
1	660707	Service Door Assembly			
	000707	(includes items 1-8)			
	440454	Service Door Only, LCM5			
	440458-1	Trim Frame			
	420430	Gasket 63" (Not Shown)			
2	202848	Handle Service Door			
3	440398-1	Shoulder Nut, Plastic (21/32)			
4	217H6R5	Screw, Pan Head, Type B (#6 x 5/16)			
5	460765	Decal, "Product Loading Diagram" (not Shown)			
6	460769	Hinge			
7	660706	Vend Door Assembly			
	440456	Vend Door With Decal			
8	440398	Shoulder Nut, Plastic (3/4)			
9	217H6R8	Screw, Pan Head, Type B (#6 x 1/2)			
10	420429	Gasket			
11	660551	Labels			
12	460347	Tabs, Price, Assorted 25¢ - \$1.50			
	460602	Tabs, Price, Assorted \$3.10 - \$4.05			
	460347-1	Tabs, Price, All 30¢ - 35¢			
	460347-2	Tabs, Price, All 40¢ - 45¢			
	460347-3	Tabs, Price, All 50¢ - 55¢			
	460347-4	Tabs, Price, All 60¢ - 65¢			
	460347-5	Tabs, Price, All 70¢ - 75¢			
	460347-6	Tabs, Price, All 80¢ - 85¢			
	460347-7	Tabs, Price, All $90\phi - 95\phi$			
	460347-8	Tabs, Price, All \$1.00 - \$1.05			
	460347-9	Tabs, Price, All \$1.10 - \$1.15			
	460347-10	Tabs, Price, All \$1.20 - \$1.25			
	460347-11 460347-12	Tabs, Price, All \$1.30 - \$1.35 Tabs, Price, All \$1.40 - \$1.45			
	460347-12	Tabs, Price, All \$1.40 - \$1.45 Tabs, Price, All \$1.50 - \$1.55			
	460347-13	Tabs, Price, All \$1.60 - \$1.65			
	460347-14	Tabs, Price, All \$1.70 - \$1.75			
	460347-16	Tabs, Price, All \$1.80 - \$1.85			
	460347-17				
	460347-18	Tabs, Price, All \$2.00 - \$2.05			
	460347-19	Tabs, Price, All \$2.10 - \$2.15			
	460347-20	Tabs, Price, All \$2.20 - \$2.25			
	460347-21	Tabs, Price, All \$2.30 - \$2.35			
	460347-22	Tabs, Price, All \$2.40 - \$2.45			
	460347-23	Tabs, Price, All \$2.50 - \$2.55			
	460347-24	Tabs, Price, All \$2.60 - \$2.65			
	460347-25	Tabs, Price, All \$2.70 - \$2.75			
	460347-26	Tabs, Price, All \$2.80 - \$2.85			
	460347-27	Tabs, Price, All \$2.90 - \$2.95			
	460347-28	Tabs, Price, All \$3.00 - \$3.05			
	460529	Tabs, Price, French			
	460540	Tabs, Price, Mexico			
13	460346	Item Tabs			

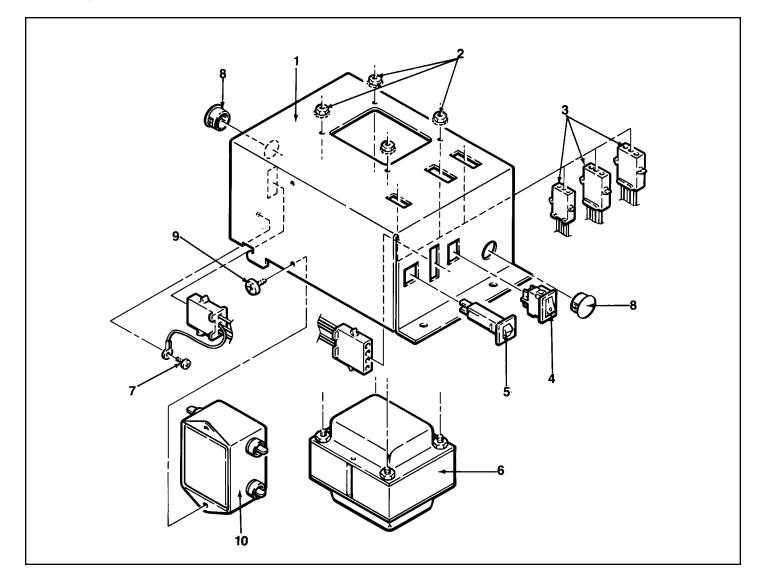
vend motor assembly_____



____vend motor assembly

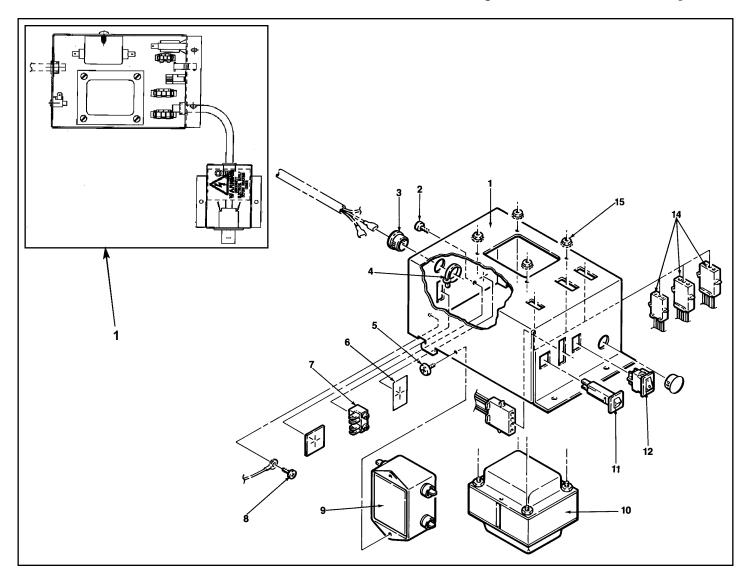
ltem No.	Part No.	Description		ltem No.	Part No.	Description
	660694	Vend Motor Rack Assembly	Γ			
		(includes items 1-5)				
	660695	Vend Motor Rack Assembly				
		(includes items 1-5) UK (330ml)				
	660696	Vend Motor Rack Assembly				
		(includes items 1-5) 5 3/8 spc, Australia				
1	202851	Motor Assembly Mounting Bracket, Bare 5 1/16 special				
	202852	Motor Assembly Mounting Bracket, UK				
	202850	Motor Assembly Mounting Bracket, Bare, Aust				
2 3	276-8R6 380307	Screw, Pan Head (8-32 x 3/8) Cable Tie				
4	680649	Can Rack Harness, LCM5				
5	660537	Vend Motor Assembly (includes items 6-19)				
6	202391	Motor Mounting Bracket				
7	380306	Empty Switch				
8	100-4-9	Screw, Round Head (4-40 x 9/16)				
9	440394	Empty Switch Lever				
10	300203	Shelf Roller Screw				
11	437-41	Nut, Keps (1/4 - 28)				
12	360199	Vend Motor, 24VDC				
13	305-7R8	Screw, Pan Head, Plastite (7 x 1/2)				
14	440392	Motor Pivot Arm				
15	440393	Link Arm				
16	440391 660554	Can Dispenser Only Assembly, Can Dispenser Linkage				
17	300210	Link Pin				
18	276-8R6	Screw, Pan Head, (8-32 x 3/8)				
19	460630	Can Dispenser Hinge				
20	276-8R6	Screw, Pan Head, Sems (8-32 x 3/8)				
			L			

main junction box _____



ltem No.	Part No.	Description
1	660529	Main Junction Box Assembly, Complete,
		LCM 5 & Chilled
	202355	Main Junction Box Only
2	437-8	Nut, Keps (8-32)
3	680559	Harness, Junction Box
4	380243	Switch, Rocker, On/Off
5	380241	Circuit Breaker, 3 Amp.
6	360194	Transformer
7	276-8R4	Screw, Pan Head, Self Tap (8-32 x 1/4)
8	420040-1	Snap Hole Plug
9	216-41R8	Screw, Pan Head, Type B (1/4 x 1/2)

ltem No.	Part No.	Description
10	380304 420040-2 460642	Filter, Line Snap Bushing (1/2) Not Shown Decal Voltage, Not Shown



ltem No.	Part No.	Description
1 2 3 4 5 6	660689 202355 202843 380262 460642 210-8R6 420040-2 380078 216-41R8 440065	Main Junction Box Assembly, Complete, LCM, 230 Volt Main Junction Box Only Door Switch Box Only Door Switch Export Decal, Voltage Disconnect Screw, Pan Head, Self Tap (8 x 3/8) Snap Bushing (5/8) Cable Tie Screw, Pan Head, Type AB (1/4 - 1/2) Mylar Insulation

ltem No.	Part No.	Description
7	380285	Terminal Block
8	276-8R4	Screw, Pan Head, Self Tap (8-32 x 1/4)
9	380304	RFI Filter
10	360203	Transformer, 230 Volt
	460458-3	Voltage Label 230V (Not Shown)
11	380241	Circuit Breaker, 3 Amp
12	380243	Rocker Switch
13	420040-2	Snap Plug (5/8)
14	680570-3	Harness, Junction Box, 230 Volt
15	437-10	Nut, Keps (10-32)

AP II style _____

 440258-9 201690-13 Top Insert Top Trim "Snacks" 340057 Trim, Outside Vertical (right or left) Trim, Inside Vertical (right or left) PANEL, LEFT SIDE, VERTICAL 202059-43 Black Hide 202059-20 Painted, Specify Color PANEL, RIGHT SIDE VERTICAL Panted, Specify Color Panted, Specify Color Panted, Specify Color Black Trim, Inside Horizontal PANEL, DELIVERY TRAY PANEL, DELIVERY TRAY Panted, Specify Color Trim, Inside Horizontal Panted, Specify Color Black Trim, Inside Horizontal PANEL, DELIVERY TRAY Panted, Specify Color Black Hide Panted, Specify Color Black Trim, Inside Horizontal Panted, Specify Color Black Hide Panted, Specify Color Panted, Speci	tem No.	Part No.	Description	
 201690-13 340057 Trim, Inside Vertical (right or left) PANEL, LEFT SIDE, VERTICAL Presidential Walnut, Vinyl Black Hide Painted, Specify Color Painted, Specify Color Panet, ISDE VERTICAL Presidential Walnut Presidential Walnut Presidential Walnut Presidential Walnut Presidential Walnut, Vinyl Painted, Specify Color Black Hide Panet, DELIVERY TRAY Presidential Walnut, Vinyl Painted, Specify Color Black Hide Painted, Specify Color Panet, DELIVERY TRAY Presidential Walnut, Vinyl Painted, Specify Color Black Hide Pointed, Specify Color Panet, DELIVERY TRAY Presidential Walnut, Vinyl Painted, Specify Color Black Hide Pointed, Specify Color Sterling Royce Door Only, Specify Color Timon Ny, Specify Color Timon Ny, Specify Color Too Only, Specify Color 	1			•
 3 340057 3 340058-2 3 340058-2 5 Trim, Inside Vertical (right or left) PANEL, LEFT SIDE, VERTICAL PANEL, LEFT SIDE, VERTICAL 202059-10 Painted, Specify Color Sterling Royce Door Only, Specify Color Painted, Specify Colo	2	440258-9	Insert Top Trim "Snacks"	1 1
4 340058-2 Trim, Inside Vertical (right or left) PANEL, LEFT SIDE, VERTICAL Panel, LEFT SIDE, VERTICAL 202059-19 Presidential Walnut, Vinyl 202059-20 Painted, Specify Color PANEL, RIGHT SIDE VERTICAL Painted, Specify Color PANEL, RIGHT SIDE VERTICAL Presidential Walnut 12000205-29 Painted, Specify Color 12000205-24 Black 7 340058-1 Tim, Inside Horizontal PANEL, DELIVERY TRAY PANEL, DELIVERY TRAY PANEL, LOWER HORIZONTAL Painted, Specify Color 201356-8 201356-8 201356-8 201356-8 201356-7 201356-8 201356-8 201356-8 201356-8 202296-51 202296-51 202296-54 Sterling Royce Door Only, Specify Color 7 10 00040 0007 Only, Specify Color				
5 PANEL, LEFT SIDE, VERTICAL 202059-19 Presidential Walnut, Vinyl 202059-20 Painted, Specify Color 7 PANEL, RIGHT SIDE VERTICAL 12000205-20 Painted, Specify Color 12000205-22 Painted, Specify Color 12000205-24 Black 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 201356-12 Black Hide PANEL, LOWER HORIZONTAL Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 200296-15 Sterling Royce 11 16000040 Door Only, Specify Color	3			
202059-19 Precidential Walnut, Vinyl 202059-43 Black Hide 202059-20 Painted, Specify Color PANEL, RIGHT SIDE VERTICAL PANEL, RIGHT SIDE VERTICAL 12000205-22 Painted, Specify Color 12000205-24 Black 12000205-24 Black 12000205-24 Black 7 340058-11 77 340058-11 77 340058-12 201366-8 Presidential Walnut, Vinyl 201366-8 Presidential Walnut, Vinyl 201366-8 Presidential Walnut, Vinyl 201366-14 Painted, Specify Color 340055-29 Trim, Inside Horizontal 90 340055-29 10 PANEL, LOWER HORIZONTAL 90 340055-29 10 PANEL, DELIVERY Color 10 Painted, Specify Color 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color	4	340058-2		
202059-43 Black Hide 202059-20 Painted, Specify Color PANEL, RIGHT SIDE VERTICAL Presidential Walnut 12000205 Painted, Specify Color 12000205-24 Black 12000205-24 Black 12000205-24 Black 7 340058-1 7 340058-1 7 340058-1 9 201356-8 Presidential Walnut, Vinyl 201356-2 Black Hide 9 340055-29 10 Painted, Specify Color 9 340055-29 10 Painted, Specify Color 10 Painted, Specify Color 20296-54 Sterling Royce 11 16000040 Door Only, Specify Color	5			
 202059-20 Painted, Specify Color PANEL, RIGHT SIDE VERTICAL Presidential Walnut 12000205-22 Painted, Specify Color Black Trim, Inside Horizontal PANEL, DELIVERY TRAY 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 340055-29 Trim, Inside Horizontal Black Hide PANEL, LOWER HORIZONTAL PANEL, LOWER HORIZONTAL Painted, Specify Color 20296-54 Sterling Royce 11 16000040 Door Only, Specify Color Table Total Table Total				
3 PANEL, RİGHT SIDE VERTICAL 12000205 Presidential Walnut 12000205-22 Painted, Specify Color 12000205-24 Black 7 340058-1 77 340058-1 78 201356-8 9 340055-29 71 nside Horizontal 90 340055-29 10 Presidential Walnut, Vinyl 90 340055-29 11 Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 201356-54 Sterling Royce 10 Door Only, Specify Color 11 16000040				
12000205 Presidential Walnut 12000205-22 Painted, Specify Color 12000205-24 Black 7 340058-1 7 340058-1 7 340058-1 7 340058-1 7 340058-1 7 340058-1 7 340055-28 7 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 9 340055-29 10 PANEL, LOWER HORIZONTAL 9 Specify Color 10 Presidential Walnut, Vinyl 200296-11 Presidential Walnut, Vinyl 200296-54 Sterling Royce 11 16000040 Door Only, Specify Color	6	202059-20		
12000205-22 Painted, Specify Color 12000205-24 Black 7 340058-1 7rim, Inside Horizontal PANEL, DELIVERY TRAY 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 9 340055-29 10 PANEL, LOWER HORIZONTAL 9 Black Hide PANEL, LOWER HORIZONTAL 200296-15 Painted, Specify Color 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color	0	12000205		
12000205-24 Black 7 340058-1 Trim, Inside Horizontal PANEL, DELIVERY TRAY PANEL, DELIVERY TRAY 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 9 340055-29 10 PANEL, LOWER HORIZONTAL 10 PANEL, LOWER HORIZONTAL 200296-11 Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 10 200296-15 10 Painted, Specify Color 11 16000040 11 16000040				│ ₄─╂┥
7 340058-1 Trim, Inside Horizontal PANEL, DELIVERY TRAY 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 9 340055-29 10 PANEL, LOWER HORIZONTAL 10 PANEL, LOWER HORIZONTAL 200296-11 Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 10 202296-54 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color				
8 PANEL, DELIVERY TRAY 201356-8 Presidential Walnut, Vinyl 201356-14 Painted, Specify Color 7 Trim, Inside Horizontal 9 340055-29 201356-2 Black Hide 9 PANEL, LOWER HORIZONTAL 9 Panted, Specify Color 200296-11 Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 2022296-54 Sterling Royce 11 16000040 Door Only, Specify Color 7	7			
201356-8 201356-14 9 340055-29 10 10 10 201356-2 10 200296-11 200296-11 200296-15 202296-54 11 16000040 10 10 10 10 10 10 10 10 10 10 10 10 10	8			
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201356-2 Black Hide 10 PANEL, LOWER HORIZONTAL 200296-11 Presidential Walnut, Vinyl 200296-55 Painted, Specify Color 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color 7 8			Painted, Specify Color	
10 PANEL, LOWER HORIZONTAL 200296-11 Presidential Walnut, Vinyl 200296-55 Painted, Specify Color 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color 7	9			
200296-11 Presidential Walnut, Vinyl 200296-15 Painted, Specify Color 202296-54 Sterling Royce 11 16000040 Door Only, Specify Color		201356-2		
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11 16000040 Door Only, Specify Color				
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	11	16000040	Door Only, Specily Color	
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				│₽₩₽→ │╚
				PUSH

_____ cover-up plate 3

Item			
Item No. 1 2 3 4 5 6 6 7 8 9	Part No. 660231-24 201417-12 201417-16 201690-22 201417-13 201417-20 201417-13 201417-20 201417-13 202059-23 202059-23 202059-32 202059-32 202059-32 202059-32 202059-24 202059-25 202059-25 202059-25 202059-24 12000205-01 12000205-01 12000205-01 12000205-11 12000205-13 12000205-03 340058-1 201356-8 201356-8 201356-37 201356-14 200296-11	Black Hide, Vinyl Painted, Specify Color Dove Gray Teak Trim, Outside Vertical (right or left) Trim, Inside Vertical (right or left) PANEL, LEFT SIDE VERTICAL Presidential Walnut, Vinyl Regency Walnut, Vinyl Black Hide, Vinyl Painted, Specify Color Port Au Prince, Vinyl Sterling Royce Dove Gray Teak PANEL, RIGHT SIDE VERTICAL Presidential Walnut, Vinyl Black Hide, Vinyl Painted, Specify Color Sterling Royce Port Au Prince Dove Gray Teak Trim Inside Horizontal PANEL, DELIVERY TRAY Presidential Walnut, Vinyl Regency Walnut, Vinyl Black Hide, Vinyl Painted, Specify Color Dove Gray	
9	201356-11	Dove Gray Teak PANEL, LOWER HORIZONTAL	

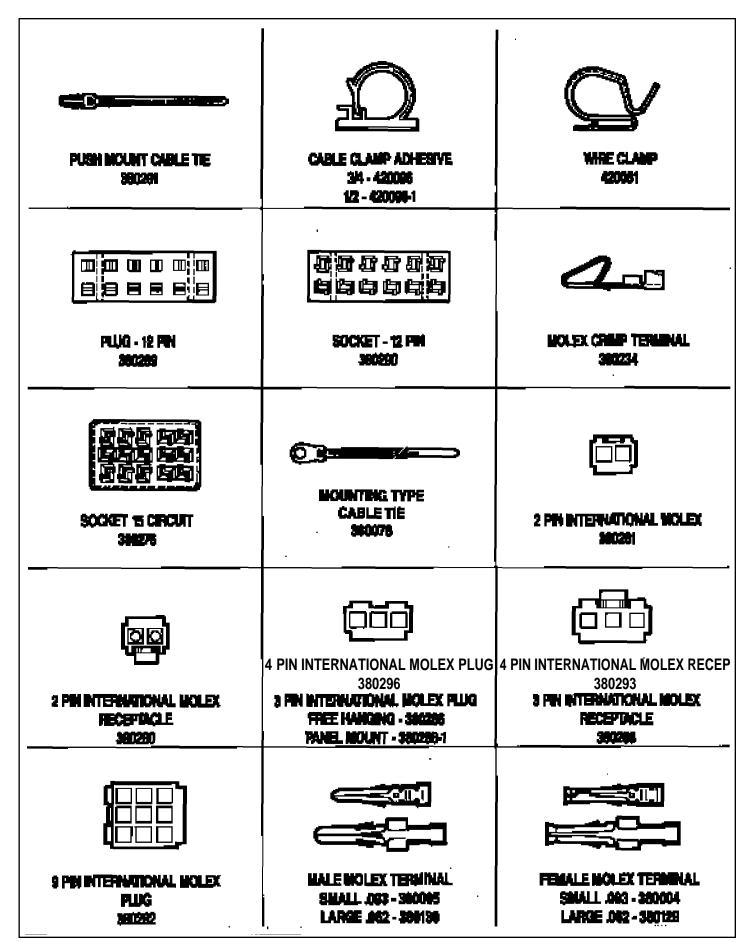
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tron II style

genesis style

			genesis style
Item No. 1 2 3 4 5 6 7 8	Part No. 340042-13 200526-29 340057 340058-6 202059-43 340058-12 201356-35 340055-27	Description Top, Trim Panel, Top Trim Trim, Outside Vertical, Silver Trim, Window. Black Panel, Left Side Vertical.Black Hide Trim, Window. Black Panel, Delivery Tray. Sterling Royce Trim, Horizontal.Black	$3 \rightarrow $
9 10 11	201692-47 201692-54 201678-2 420186 12000205-11 16000040	Panel, Lower Horizontal.Black Hyde w/Stripes Panel, Lower Horizontal.Black Hyde w/o Stripes Bottom, Vinyl Door Edging Screw, HWH, Drill Point, Black (6-20 x 1/2) Qty. 4 Panel, Right Side Vertical. Lower, Black Hyde Door Only. Specify Color.	4 5
			6 ← 10 7 10 8

connectors _____



COINCO LCM CONTROLLER

P1 POWER IN			P4 Bl		P6 M	OTOR DRIVE
1	24 VAC	СНОТ	1	RENA1	1	ROW A
2	GROUND		2	KEY	2	ROW B
3	24 VAC	NEUTRAL	3	KEY	3	ROW C
			4	RENA2	4	ROW D
P2 SELECTION SWITCHES		5	KEY	5	ROW E	
KEY	PIN #1	PIN #2	6	GND	6	ROW F
			7	ĪNT	7	ROW G
Α	1	9	8	PAR/SER	8	ROW H
В	1	8	9	SEND/ESC	9	KEY
С	1	7	10	DATA	10	COL 1
D	3	7	11	\$1 CREDIT	11	COL 2
E	4	7	12	\$5 CREDIT	12	COL 3
F	4	8	13	+5 VDC	13	COL 4
G	3	4	14	ESC/NOESC	14	COL 5
н	8	9	15	\$1 & \$5 ENABLE	15	COL 6
1	2	12	16	НОТ	16	COL 7
2	3	12	17	RET	17	COL 8
3	2	3			18	COL 9
4	3	11	P5 US	COIN MECH. AND L+	19	COL 10
5	3	5	1	GND		
6	5	11	2 KEY		P8 MULTI-DROP BUS (MDB)	
7	5	6	3	24 VDC HOT NF	1	24 VUN
8	6	11	4	KEY	2	KEY
9	6	7	5	DATA	3	GND
10	7	11	6	INT	4	RXD
	7	8	7	ACCEPT	5	TXD
	8	11	8	MECH RESET	6	GND
		9	SEND	7	NC	
P3 COIN MECH.		10	+ 5 VDC	'		
1	TX +		11	GND		
2	TX –		12	MIDDLETUBE		
3	RX –		13	RIGHTTUBE		
4	4 GND -		13	LEFTTUBE		
5	RX +		15	FOURTHTUBE		
6 24 VAC HOT			I COMMODE			
7	KEY					

- 8 24 VAC RET
- 9 ME9100 DETECT

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.

Problem	Cause	Remedy	
No power	No lights	Check wall outlet for correct wiring, and line cord. See page 2.	
	Lights work - no power to board	Check transformer outputs & circuit breakers	
	No power to the board	Check wiring connections	
	Defective power board	Replace power board	
	Display blank	LCM machines-24VAC at white wires at P1	
Won't take coins	No power to machine	Check wall outlet, line cord & voltage	
	Defective changer	Replace changer	
	Machine only accepts one coin	Machine lost its vend prices - reprice and test	
	Defective circuit breaker	Replace circuit breaker	
	No power to coin payouts	Replace power board or logic board on LCM machines	
Won't payout coins/incorrect	No voltage	Check voltages	
change returned	Defective power board	Replace power board	
	Defective coin mechanism.	Replace coin mechanism.	
	Jammed coins in tube	Remove coins with power off	
Won't take bills	No coins in coin tubes	Fill coin tubes	
	Belts or stacker doesn't run on power-up	Check for 24 VAC at PI	
	Belts run-bill goes half way but won't accept	Replace validator	

_____ trouble shooting chart

Problem	Cause	Remedy	
Says make another selection	Motor 1/2 cycled	Home motor and retry /LCM do mode 5 test vend	
	Selection lost its price	Reset prices	
	Motor won't turn	Swap shelves with another shelf and retry	
		Check shelf harness connection to board	
		Check 24VAC to logic board at PI	
Use correct change	Coin tubes empty	Re-fill coin tubes	
	Says use correct change with coin tubes full	Replace coin mechanism	
Spirals turn more than one turn	Capacitor discharging current	Re-solder capacitor or replace motor	
	Loose wire on motor	Repair wire	
	Defective motor switch	Replace switch	
	Defective control board	Replace control board	
More than one motor turns together	One of the motor wires is shorting out	Check each individual motor for loose or pinched wire	
	Defective control board	Replace control board	
	Incorrect vend motors installed	Black bodied motors for LCM	
		Ivory bodied motors for 110 series	
Unable to enter service mode	Check plugs on control board	Power down and remove and install connectors	
	Defective changer	Replace changer	
	Defective main board	Replace board	
Coin mechanism jackpots	Incorrect voltage	Check voltages± 10%	
	Defective coin mechanism	Replace coin mechanism	
	Defective board	Replace control board	
Motor doesn't home on door	No voltage	Check for correct voltages	
close	Defective board	Replace board	

