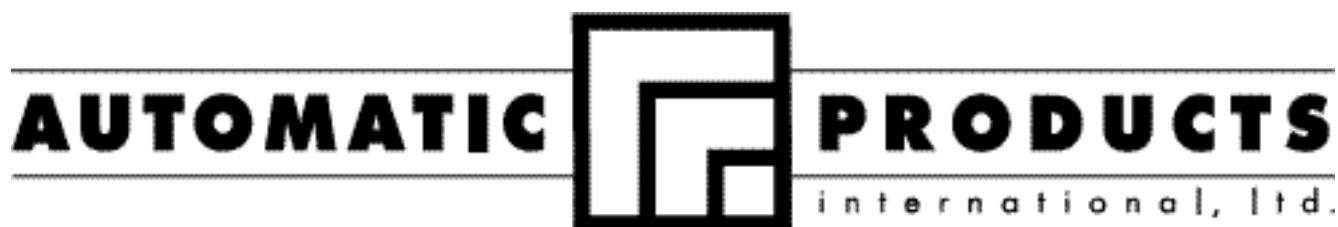# SNACKSHOP LCM3-LCM4
SNACKSHOP LCM3-LCM4
SNACKSHOP LCM3-LCM4
SNACKSHOP LCM3-LCM4
SNACKSHOP LCM3-LCM4

instruction manual for

SNACKSHOP LCM3-LCM4

AUTOMATIC **PRODUCTS**
international, ltd.

table of contents

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 WARANTY PROVIDED ABOVE AS TO THE UNIT AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY 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.)

All equipment manufactured by Automatic Products int'l lyd. is designed to work properly in a temperature range of 10˚C to +50˚C (50˚F to 104˚F) in still air (75% R.H. non-condensing).The unit is capable of being stored in a temperature range of -18˚C to +68˚C (0˚F to 155˚F), provided proper precautions are taken for machines that contain a water system to prevent physical damage to components due to freezing, and that the machine is not stored on direct sunlight.

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
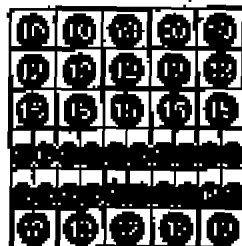WILL EXIT AUTOMATICALLY AFTER
30 SECONDS.

capacities - LCM3

Unless otherwise specified machine will be shipped with spiral assortment shown below.
Figures in circles represent capacities in each spiral.
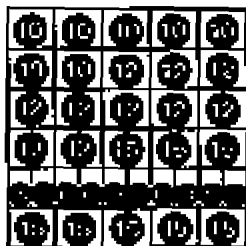
MODEL LCM3-635
Capacity as shown: 502 units

MODEL LCM3-640
Capacity as shown: 617 units
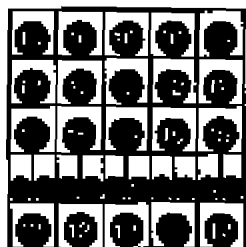
MODEL LCM3-630
Capacity as shown: 437 units
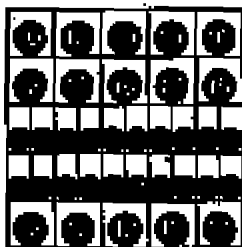
MODEL LCM3-635
Capacity as shown: 551 units

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	7¼"	2½" to 5¼"	1" to 2¼"	5—Item Spiral 3⅜"	6—Item Spiral 2⅞"
Second	7¼"	2½" to 5¼"	1" to 2¼"	7—Item Spiral 2⁵⁄₁₆"	7—Item Spiral 2½"
Third	6½"	2½" to 5¼"	1" to 2¼"	10—Item Spiral 1⅝"	9—Item Spiral 1¹¹⁄₁₆"
Fourth	7¼"	2½" to 5¼"	1" to 2¼"	12—Item Spiral 1⅜"	10—Item Spiral 1¾"
Fifth	6½"	2½" to 5¼"	1" to 2¼"	15—Item Spiral 1¹⁄₁₆"	12—Item Spiral 1½"
Six	6½"	2½" to 5¼"	1" to 2¼"	18—Item Spiral 1"	15—Item Spiral 1¼"
				30—Item Spiral ½"	18—Item Spiral ¹⁵⁄₁₆"
				40—Item Spiral ⁷⁄₁₆"	24—Item Spiral 1¹⁄₁₆"
					30—Item Spiral ¾"
					40—Item Spiral ⁹⁄₁₆"

Ten selection shelves for candy and other narrow items fit on all three positions.
————— six 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.

Gum-and-Mint Capacity. It is difficult to determine the true capacity due to variations of product size. The average capacity for the Gum-and-Mint Shelf is 170 items. LCM3 only.

LCM3 SPECIFICATIONS

HEIGHT: 72"
WIDTH: 38⅞"
DEPTH: 35"
SHIPPING WEIGHT: 650 LBS., 750 LBS W/CHILLER UNIT
FLOOR SPACE REQUIRED: 9.5 SQ. FT.
SHIPPING CONTAINER SIZE: 72.5 CU. FT.
POWER REQUIREMENTS: LCM3 AMBIENT = 120 VOLTS, 60 HZ, 3 AMPS
    220/230/240 VOLTS, 50 HZ, 3 AMPS
    LCM3 CHILLED = 120 VOLTS, 60 HZ, 12 AMPS
    220/230/240 VOLTS, 50 Hz, 6 AMPS
SOUND LEVEL: NOISE LEVEL & OPERATION AT LESS THAN 70 dB(A)

Unless otherwise specified machine will be shipped with spiral assortment shown below.
Figures in circles represent capacities in each spiral.
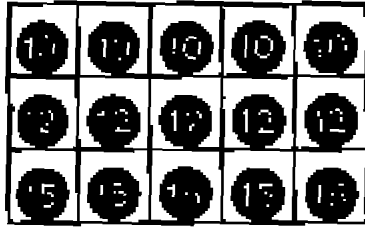
MODEL LCM4-315
Capacity as shown: 195 units
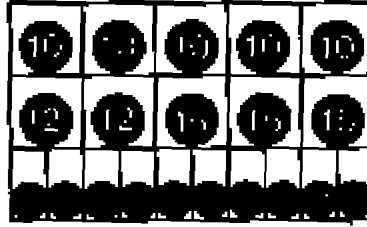
MODEL LCM4-320
Capacity as shown: 311 units
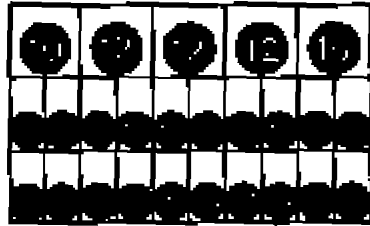
MODEL LCM4-325
Capacity as shown: 433 units
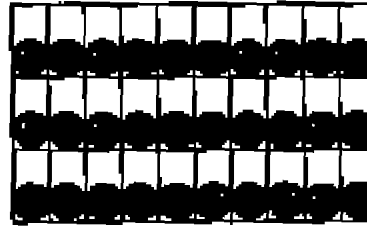
MODEL LCM4-330
Capacity as shown: 552 units

CAN COOL UNIT CAPACITIES

Top Shelf	-	21 Cans Each
		5 Selections
		105 Total Units
Bottom Shelf	-	15 Cans Each
		5 Selections
		75 Total Units
		180 TOTAL

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	7¼"	2½" to 5¼"	1" to 2¼"	5—Item Spiral 3⅜₂"	5—Item Spiral 2⅜"
Second	7¼"	2½" to 5¼"	1" to 2¼"	7—Item Spiral 2¹¹⁄₁₆"	7—Item Spiral 2⅛"
Third	6¼"	2½" to 5¼"	1" to 2¼"	10—Item Spiral 1⅞"	9—Item Spiral 1¹³⁄₁₆"
				12—Item Spiral 1⁹⁄₁₆"	10—Item Spiral 1⅝"
				15—Item Spiral 1³⁄₁₆"	12—Item Spiral 1¼"
				18—Item Spiral 1"	15—Item Spiral 1¼"
				30—Item Spiral ½"	18—Item Spiral 1¹⁄₁₆"
				40—Item Spiral ⁵⁄₁₆"	24—Item Spiral ¹¹⁄₁₆"
					30—Item Spiral ½"
					40—Item Spiral ⁵⁄₁₆"

Ten 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.

LCM4 SPECIFICATIONS
HEIGHT: 72"
WIDTH: 38⅞"
DEPTH: 35"
FLOOR SPACE REQUIRED: 9.5 SQ. FT.
SHIPPING CONTAINER SIZE: 72.5 CU. FT.
POWER REQUIREMENTS: LCM4 AMBIENT = 120 VOLTS, 60 HZ, 8 AMPS
                                      220/230/240 VOLTS, 50 HZ, 4 AMPS
   LCM4 CHILLED = 120 VOLTS, 60 HZ, 12 AMPS
                                      220/230/240 VOLTS, 50 HZ, 6 AMPS
SOUND LEVEL: NOISE LEVEL & OPERATION AT LESS THAN 70 dB(A)
REFRIGERANT: R-134A, 9.5 OZ.
TEST PRESSURE: HIGH SIDE: 440 P.S.I.
                          LOW SIDE: 162 P.S.I.
SHIPPING WEIGHT: 730 LBS.

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 clip 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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◆ 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 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 symbols 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.

Serial Number Definition

Automatic Products int'l ltd. has introduced a new serial numbering method to permit better tracking of machines, and any changes that occur. This information is being provided to you so that you understand the information contained in the serial number, and so that when you are making an inquiry about a specific machine, or require a warranty replacement, that you provide us with the complete serial number. The location of the serial number plate in the machines has not changed. The serial number plates are located inside the machine in the upper right hand corner of the cabinet, and adjacent to the power cord on the back of the cabinet.

It is essential that the complete serial number be reported when reporting any problems or claiming any warranty replacements.

The new serial number format is explained in the example below:

1	2	3	A	9	9	3	6	5	0	0	1

Sequential build Number starts at 001 each day

Numerical Day of the Year - Jan 1st = 001, Dec 31 = 365

Year 99 - Last two digits of year

First Digits indicate model, example shown is a 123A Glassfront Merchandiser - The machine identification may contain up to six characters dependent upon the model.
Suffixes
A - indicates all design changes incorporated upon the introduction of the new chiller unit
C - indicates a chilled machine
E - indicates a machine built specifically for export outside North America

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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.
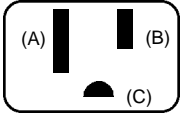
> *CAUTION:* **THIS MACHINE IS DESIGNED FOR <u>INDOOR USAGE</u> ONLY. ANY OTHER USAGE MAY VOID THE MANUFACTURERS WARRANTY.**

> *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.

A. C. HOT	(B)	(A) to (B) = 120 VAC (±10%)
A. C. NEUT	(A)	(A) to (C) = less than 1 VAC
EARTH GROUND	(C)	(B) to (C) = 120 VAC (±10%)

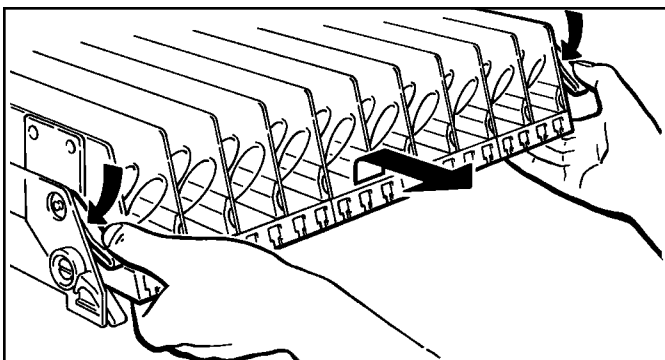**NOTE: Should the readings be different from above, have a certified electrician correct the problem.**

Figure 1. Moving shelf to loading position

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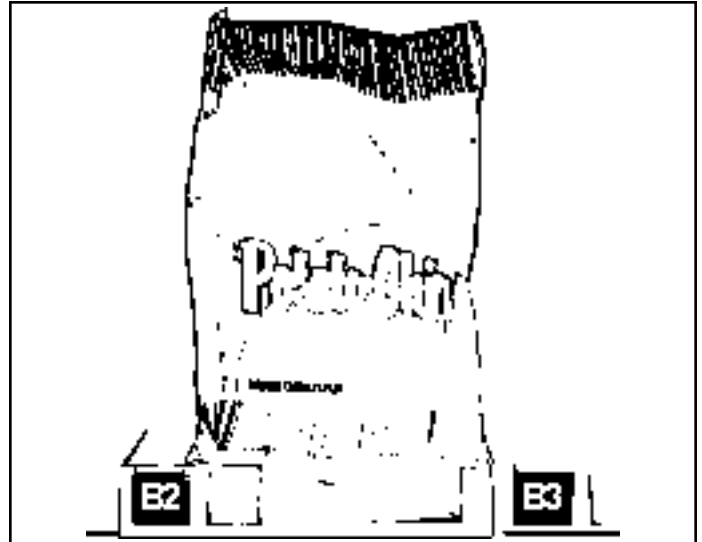
Figure 2. Placement of product on main product snack shelves and front end position of spiral.

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.
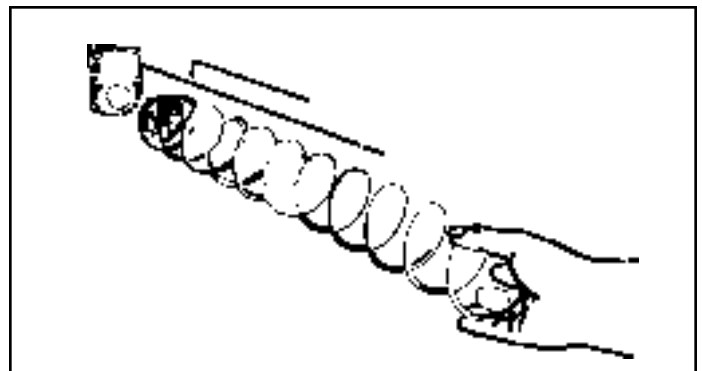
Figure 3. Removing and installing spiral.

5. **Product Spacers, 5-Selection Shelf.** A product spacer is used to reduce the width of the product area and should be used on any 5-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,
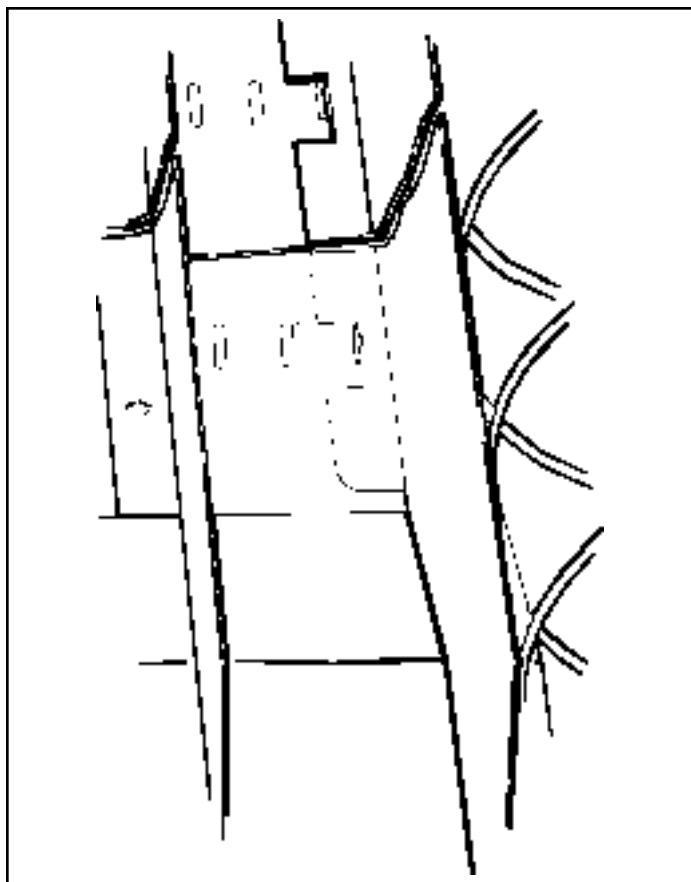
4

Figure 4. Alignment of moveable product spacers.

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 10-selection (candy type) shelves are loaded similar to the 5-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, 10-selection shelf.** The 10-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 prod-
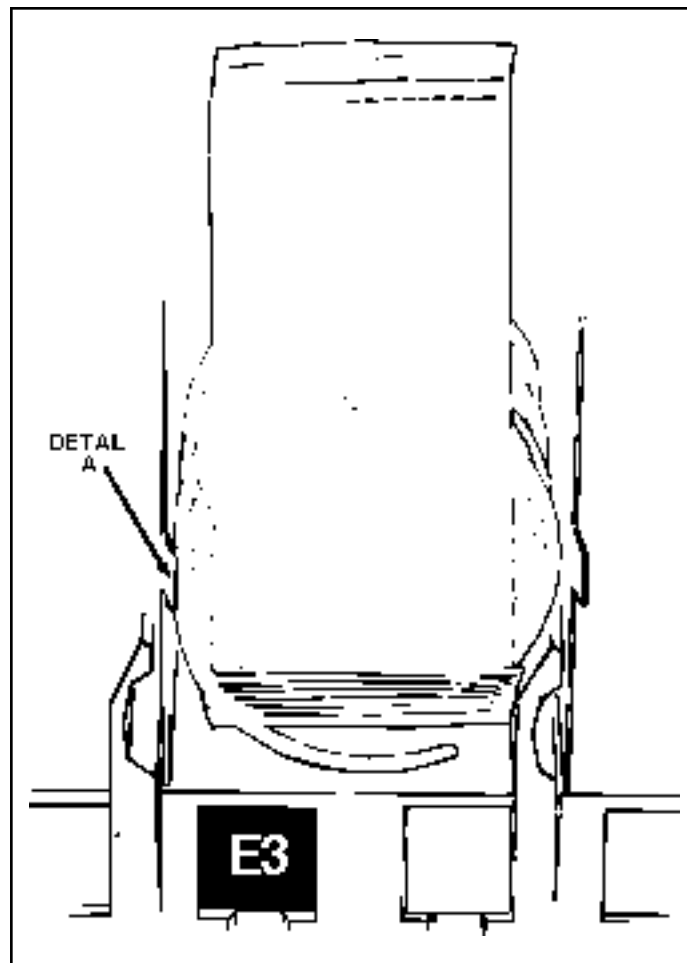

Figure 5. Placement of product on main product candy shelves and front end position of spiral.

ucts 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.

9. **Bagged or Boxed Items** in the 10-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 LCM4.** Cigarettes can be vended from the candy shelves using the 15 capacity spiral for the soft pack regular, king, 100mm or 120mm packs. The 12 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.)

13. **Loading Cans.** The machine is set for 12 oz. cans only. There are 10 can selections total in the machine. The top 5
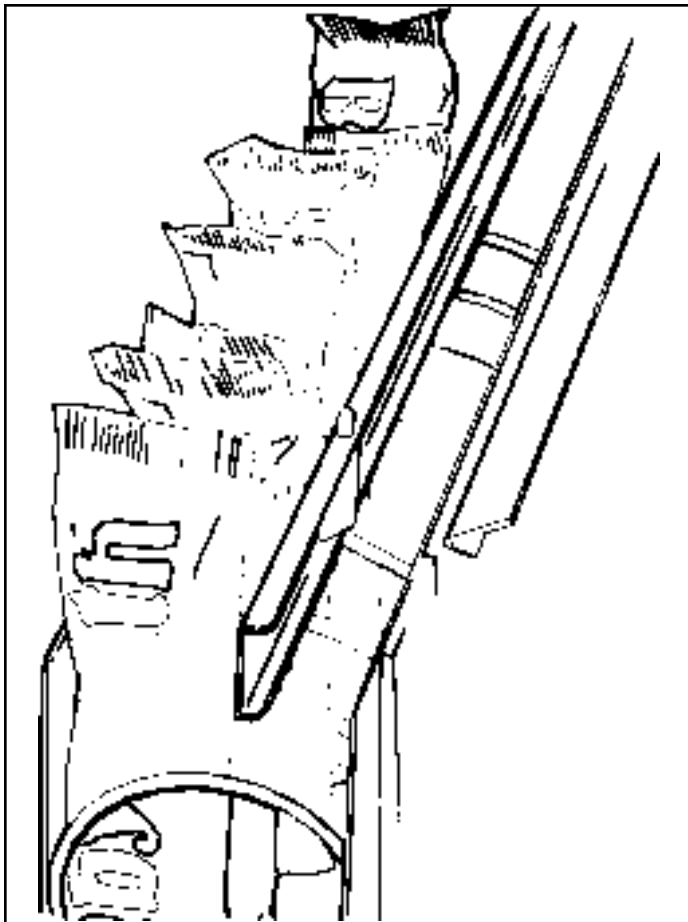
Figure 6. 10-selection shelf product spacer positioned to hold candy upright.

Figure 7. Location of product pusher on spiral.

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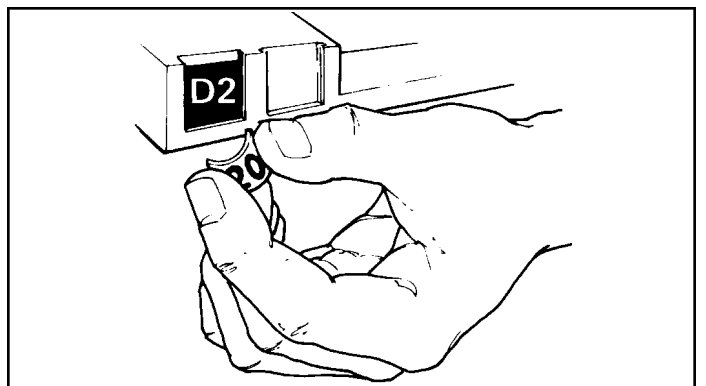

Figure 9. Installing price tabs.

selections hold 21 cans each and the bottom 5 selections hold 15 cans each. When loading the top cans there is a latch (See page 21, Item 20.) you can use to hold the door open for easier use.

program operation

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.

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 diplay 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.

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 "0.00" 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 (▲)or down (▲) buttons will change to the price desired. (Figure 10., Page 9.)

   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.

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").

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.**

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

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.

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").

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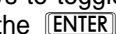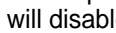
d. Press key [D] - **Can Drink**.
(displays "CAnY")
Press key [D] again to toggle between "CAnY" and "CAn"

> **NOTE: The LCM4 machine should be set on "CAnY".**

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

1. **Power Supply.** The 120VAC 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. **Force Vend.** When this menu is active, the display indicates "-FORCE VEND-N". Use the [+] and [-] keys to toggle the prompt between "N" and "Y". Depressing the [ENTER] key when the prompt is "Y" will enable the force vend option. If the prompt is "N", depressing the [ENTER] key will disable the force vend option. When the force vend option is enabled, once there is enough credit established to purchse the lowest priced item in the machine, the customer must purchse

at least one item prior to requesting that any remaining credit be returned. Force Vend overrides Bill Escrow enable. Force Vend does not apply when debit cards are used.

4. **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.

5. **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.

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

6. **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
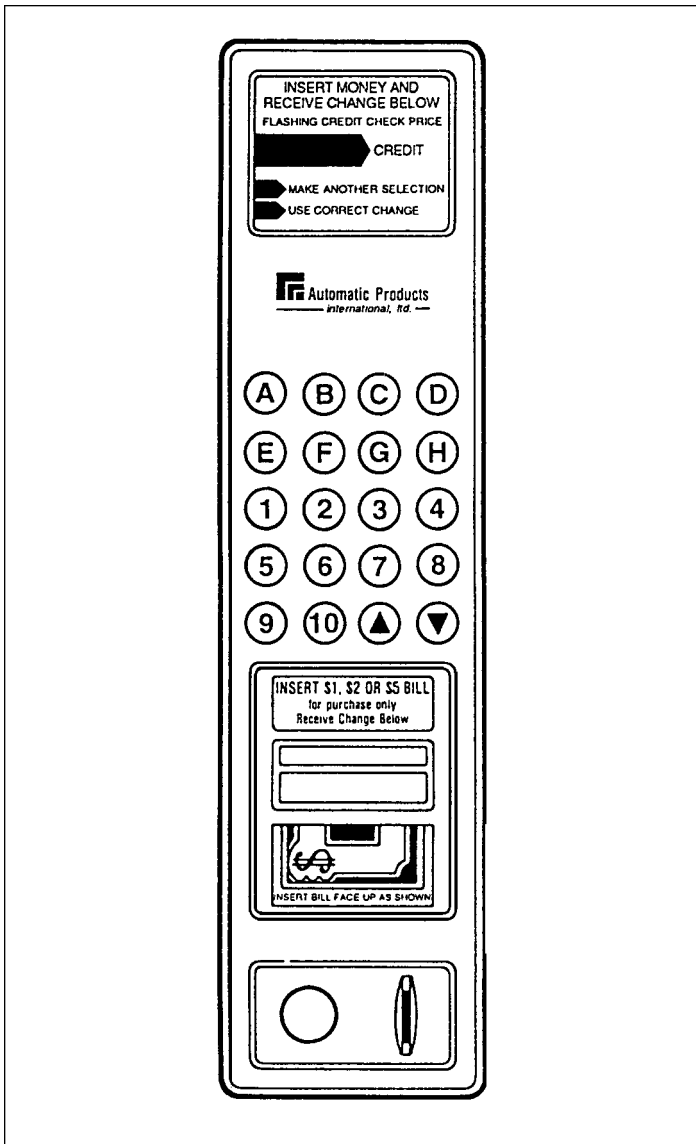
Figure 10.

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 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.

7. **Selection Panel.** The selection panel (Figure 10., Page 9.) 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.

8. **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**

9. **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.

10. **Main Product Shelves.** There are three main product shelves per machine. Each containing either 5 or 10 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 5selection shelf with a 10-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.

11. **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 left and right bracket 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.

12.**Replacing Vend Can Motors or Sold-Out Switches.** Before replacing a vend motor, the selection must first be emptied of cans. When replacing any of the five motors on the bottom, you must also remove all the cans from the selection directly above it to remove the old motor.

a. Remove the cans using any of the following methods:setting the machine to test vend, setting the vend price to 00, or removing the link arm from the vend motor and ratcheting the cans out manually. Once the cans are removed turn the main power switch off.

b. Remove the third shelf from the machine.

c. Remove the two middle screws on top of the cooler door and lift the door off.

d. Remove the link arm (Page 45, /Item 15.) from the motor assembly.

e. Remove the three screws holding the motor support plate to the rack assembly and swing motor up and out to remove.

f. Remove the wires from the common terminal on the cycle microswitch and the small terminal on the motor.

g. To install motor, reverse above procedure.

13. **Cooler Assembly.** When placing a LCM4 machine at a location, **CAUTION** should be taken to keep adequate clearance in the rear and front bottom screens for proper circulation.The front screen assembly should be removed and cleaned regularly for proper operation of the refrigeration system.

> **IMPORTANT: Removal or damage of the screen can cause air flow problems resulting in damage to the refrigeration system.**

The cold control is located inside the cooler unit on the bottom right corner (Page 41, Item 1) with the standard setting set on #4.

14. **Removal of Can Dispensing Unit.**

a.Remove the third shelf from the machine.

b. Remove the middle two screws from the top of the cooler door. (Page 35., Item 10.) Tilt the complete door assembly down and lift up for removal.

c. Remove the two "L" brackets holding the cooler assembly to the cabinet. (Page 39., Item 27.) Disconnect the two plugs from the right-hand side of the cooler unit.

d. Pull the can unit out. (Because of the weight, it is recommended that two persons complete this task.)

e. Remove the four corner screws (not shown) on can unit underside and one front center screw that attaches the can unit with the refrigeration unit.

f. Lift can unit off for exposure to the refrigeration unit.

15. **Removal of Gum and Mint Motor and/or Ejectors.**
Disconnect the two wires going to the motor and remove the four screws holding it to the shelf. The components attached to the front base can also be replaced.These consist of the gum and mint shelf front (Price tabs and selection), gum and mint shelf front base, gum and mint display front stop (plastic) and the gum and mint ejector.

> **NOTE: Before replacing the gum and mint motor, it would be helpful to tap the motor first with the screws. Assemble the four components together and mount them to the motor making sure that the head crank of the motor is inserted into the ejector. Replace the four screws and test vend that selection for proper operation.**

16. **Chilled Air Machine.**
When placing a chilled machine at a location CAUTION should be taken to keep adequate clearance in the rear and front bottom screen for proper circulation. The front vent screen assembly should be removed and cleaned periodically for proper operation of the refrigeration system.

> **NOTE: The cold control setting (Page 47., Item 7.) should be set on the #4 position.**

17. **Removal of Cooling Unit - LCM3 Only.**
Replacing a cooling unit can be done by removing the two screws from the Air Duct Support Bracket. Then, lift the air duct up and out of the cooling unit. Remove the two screws in the bottom of the cooling pan located to the right and next to the blower. Remove the two screws. The cooling unit can now be pulled straight out from the angle guides. Reverse the procedure to put the cooling unit back in the machine.

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 4. for removal of spirals and page 5. 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.

> **IMPORTANT:**
> **Can Vendor: clean the refrigeration screen (Page 57, Item 6.) weekly to prevent voiding the warranty on the refrigeration unit.**

optional equipment

1. **Ventilating Fan:** (Part #660441 - 120 volts)
   (**Part #660441 - 230 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. **Special Spirals.** Special candy spirals are available for use in the 5-selection snack shelves. For the sake of identification, the back end of these spirals are colored RED and should never be used in the 10-selection candy shelves.

   These spirals allow vending products that are too wide for the standard candy columns, but, may be too thin for the regular snack spirals. A product pusher and spacer should be used where required. Part numbers for these special spirals are as follows:

400139-1	12 space special spirals
400140-1	15 space special spirals
400141-1	18 space special spirals
400142-1	24 space special spirals
400143-1	30 space special spirals
400151-1	20 space special spirals

   > **NOTE: The difference between the standard candy spiral and the special candy spiral used in the wide snack columns is in the overall length of the spiral. The special spiral is shorter than the standard candy spirals.**

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

3. **Soup Dispenser LCM** (Kit 750083)
   A canned soup dispenser is available as an option for use in the 5-selection snack shelves. The dispenser is easy to install and holds up to nine cans in the unit.

4. **Dollar Bill Validators & Changers.** The validators & changers 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 & changers.

Coin Mechs

24 Volt models - 15 pin plug only

Mars	TRC-6010XV
	VN-4010
Coinco	9302LF
Conlux	USLX-004-01F

Multi Drop Bus (MDB)

Mars	TRC-6510
	VN-4510
Coinco	9302GX
Conlux	USLZ-004-01F

Bill Validators

24 Volt models - Micromech

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

Multi Drop Bus (MDB)

Mars	VN-2502-U5M
Coinco	BA32SA
	BA32R

5. **Can Storage Tray** (Kit 750184) LCM 4
   The storage tray is used to store spare cans inside the machine.

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door - outside front
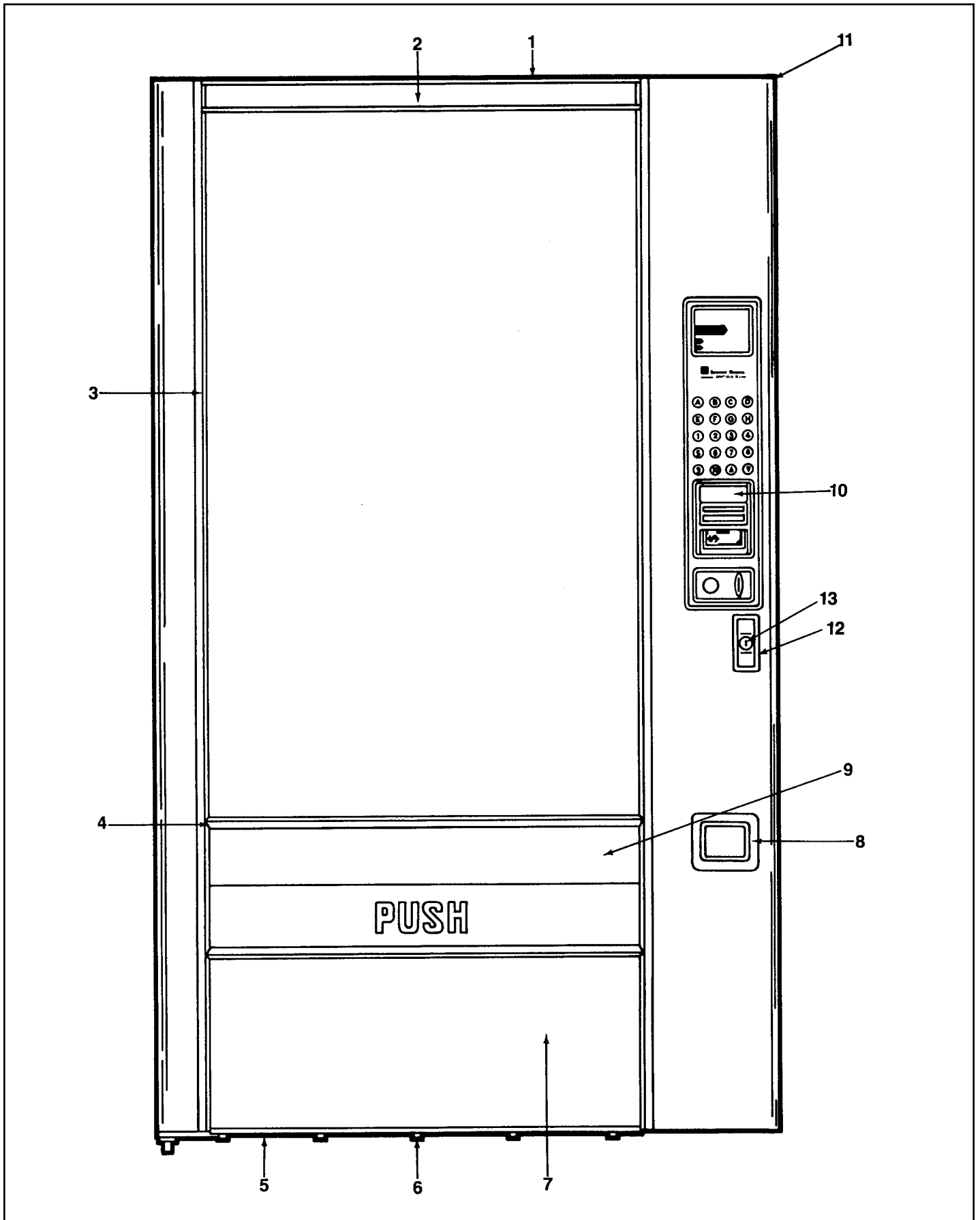
Item No.	Part No.	Description
1	340044-11	Top Trim, Silver
	340044-12	Top Trim, Black
2	201690-9	Top Trim Insert, Painted, Specify Color
	201690-7	Top Trim Insert, Black Hide
	201690-15	Top Trim Insert, Gray
	440360	**"MULTISNACK"TRIM INSERT**
3	340062	Trim, Inside Vertical, Left or Right, Clear
	340062-1	Trim, Inside Vertical, Left or Right, Black
4	340062-2	Trim, Inside Horizontal, Clear
	340062-3	Trim, Inside Horizontal, Black
5	201678-5	Trim, Door Edging
6	420186	Screw, Drill Pt., Black (6-20 x 1/2)
7	201692-44	Panel, Lower Horizontal, Painted, Specify Color
	201692-56	Panel, Lower Horizontal, Gray
	201692-1	Panel, Lower Horizontal, Black Hide
8	440411-1	Coin Cup Trim, Medium Gray
	660581	Assembly Coin Cup Front, Black
	660581-1	Assembly Coin Cup Front, Gray
	440411	Coin Cup Trim, Black
	440412	Coin Cup Door
9	201356-43	Panel, Delivery Tray, Gray
	201356-6	Panel, Delivery Tray, Painted
	201356-1	Panel, Delivery Tray, Black Hide
10		See page 13 for itemized parts
11	16000014	Door Only, Specify Color, Euro Style
12	660319	Assembly Complete, Lock Handle
13	420071	Ace Lock w/2 Keys
	420071-1	Ace Lock w/1 Key
	420071-2	Ace Lock w/0 Keys

Item No.	Part No.	Description
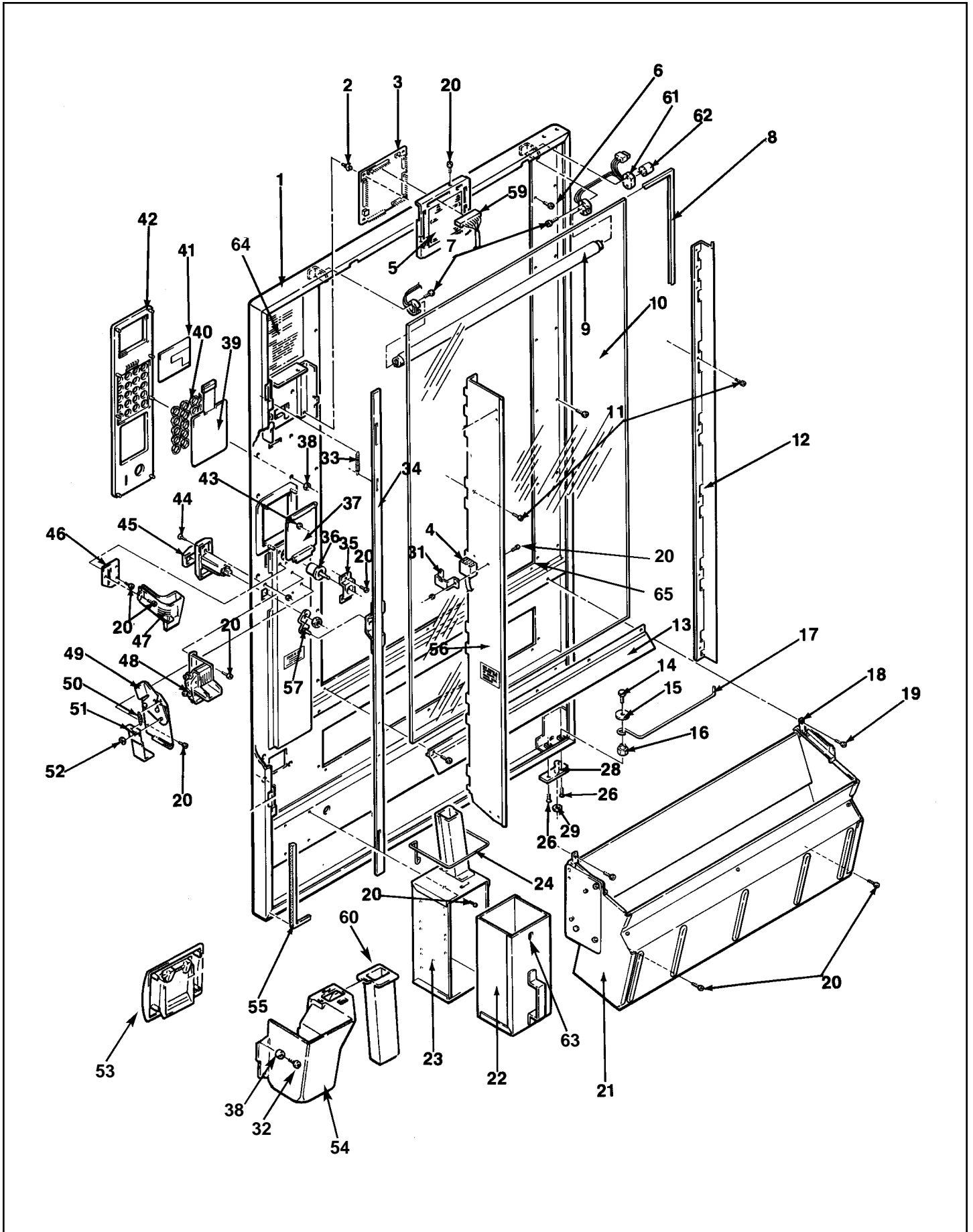
Item No.	Part No.	Description
1	16000014	Door Only, Euro Style, Specify Color
	16000018	Door Only, Standard, Specify Color
2	420303	Control Board Stand - Off
3	360206	Control Board w/MDB
		(Requires Cover 202325)
4	680547	Harness Changer Plug-In
	680567	**Harness Changer Plug-In, Executive Export**
	680576	Harness MDB
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), Qty. 2
7	420062-1	Screw Round Hd.Slot Mach (4-36 x 3/4)
8	460436	Insulation, Rubber, 143" (Order length needed)
9	380022-5	Lamp, Fluorescent (F18T8 CW-24)
10	750141	Window, Front (44-5/8 x 26-7/8 x 1/8)
		NOTE: Replacement Glass Must Be Hard Tempered or Lexan Only.
	460570	Decal, "Cool-Cool" (not shown)
11	201-6R11	Screw, Round Head, Phillips, Type B (6-20 x 11/16)
12	201381 -3	Shield & Window Clamp
13	201384	Window Clamp, Bottom
14	114-41-8	Screw, Hex Head, Machine (1/4-20 x 1/2)
15	420010	Washer
16	300156	Nut, Special, Door Stop Anchor
17	400192	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 31 for itemized parts)
22	600179-1	Cash Box
	12000088	Cash Box Stop (Not Shown)
23	600714	Cash Box Mounting Bracket
24	400180	Cash Box Retainer
25	420003-1	Screw, Flat Head (1/4-20 x 1/2)
26	420003	Screw, Flat Head (1/4-20 x 3/4)
27	420040-9	Hole Plug
28	640154	Lower Hinge Plate
29	420010-18	Washer
31	202024	Changer Socket Bracket
	202775	Loading Barricade Closer (Not Shown)
32	305-7R8	Screw, Pan Hd.Plastite Phillips (#7 x 1/2)
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	420144	Ferrule
39	660519	Assembly, Selector Switch Panel
40	440304	Selector Buttons, Quantity - 20
41	440390	Instruction Glass
	440401	**Instruction Glass, French**
	440400	**Instruction Glass, Mexico**

Item No.	Part No.	Description
	440402	**Instruction Glass, Dutch**
	440403	**Instruction Glass, German**
	440440	**Instruction Glass, Italian**
	17400005	**Instruction Glass, Russian**
	17400007	**Instruction Glass, Hungary**
42	660517	Assembly Complete, Selector Bezel, Gray
	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	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	Coin Cup Front Assembly, Gray
	440411	Trim, Coin Cup, Black
	440411-1	Trim, Coin Cup, Gray
	440412	Coin Cup Door (not shown)
54	400108	Spring (Not Shown)
	440413	Coin Return Cup, LCM All - No Striker
	660570	**Assembly Coin Cup w/Striker 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	404-10	Nut, Hex Head (10-24)
59	680548	Harness, Bill Validator Hook-Up
	680641	Harness Mars MDB 24 Volt
	680613	Harness, MDB/Fan Cross Flow
60	440414	Coin Cup Chute
61	680512	Harness, Lamp
	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.
	13100005-01	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**
	460685	**Decal Mode Instructions, German**
	460645	**Decal Mode Instructions, French**
65	300206	Window Screw (Not Shown)
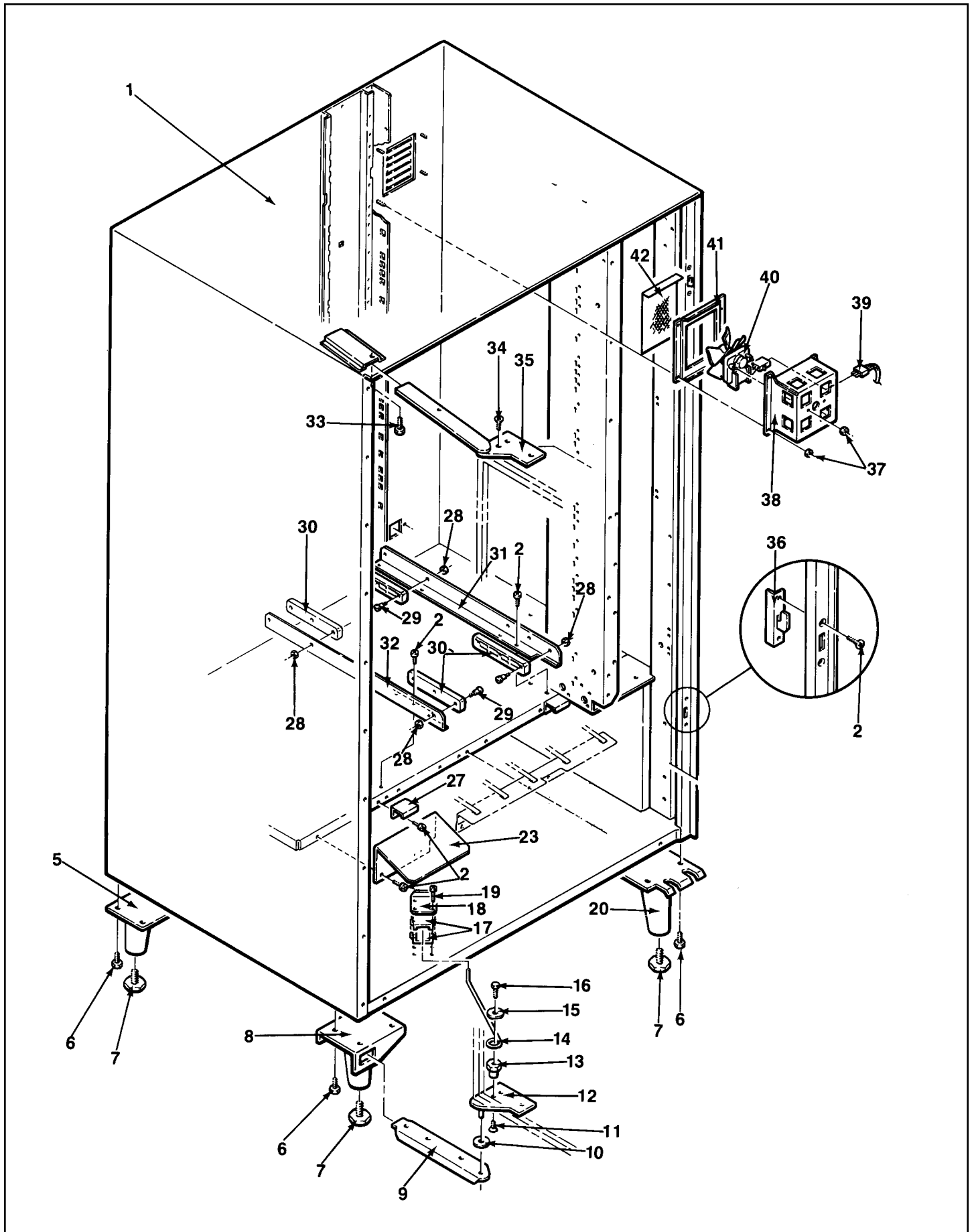
Item No.	Part No.	Description
1	750101-20	Cabinet Assembly Complete, With Legs, Ambient LCM3
	750101-23	Chilled Machine Cabinet Assembly Complete with legs and Insulation. Specify Color. LCM3
2	276-8R6	Screw, Pan Hd, Self-Tap (8-32 x 3/8)
5	600195	Leg Assembly Rear, Specify Color
6	420187	Screw, Hex Hd, Mach (5/16-18 x 3/4)
7	300103	Leg Leveler
	660599	**Leg Leveler Bolt "Multisnack"**
8	600302	Leg Assembly Front, Pivot Side, Specify Color
9	202088	Lower Hinge Support, Specify Color
10	420010-18	Washer (1-1/4)
11	420003	Screw, Flat Hd (1/4-20 x 3/4)
12	640154	Assembly, Lower Door Plate, Specify Color
13	300156	Door Stop Anchor
14	400095	Door Stop
15	420010-10	Washer
16	114-41-8	Screw, Hex Hd, Mach (1/4-20 x 1/2)
17	440204	Door Stop Friction Pad
18	201042	Door Stop Plate
19	277-10R16	Screw, Pan Hd, Self Tap (10-32 x 1)
20	600197	Assembly, Leg Front, Lock Side, Specify Color

Item No.	Part No.	Description
23	12000038	Plate, Gum & Mint Deflector
27	12000006	Gum & Mint Tray Catch
28	437-41	Nut, Keps (1/4 - 28)
29	300137	Screw, Shelf Roller
30	440278	Gum & Mint Tray Slide
31	16600039	Assembly Complete, Gum & Mint Support, Right Side
	12000061	Gum & Mint Support, Right Side
32	1600039-01	Assy, Complete, G&M Support, Left Side
	1200061-01	Gum & Mint Support, Left
33	164-51-7	Screw, Hex Hd, Sems (5/16-18 x 3/8)
34	420003-1	Screw, Flat Hd (1/4-20 x 1/2)
35	640107-1	Assembly, Upper Hinge, Specify Color
36	600433	Assembly, Door Lock Catch
37	404-4	Hex Nut (8-32)
38	202072	Fan Housing
39	680456	Harness, Fan
40	360122-2	Fan Motor, 120 Volt
	660441	Kit, Fan Add-On, 120 Volt
	660441-1	**Kit, Fan Add-On. 240 Volt**
	360122-3	**Fan Motor, 230 Volt**
41	202070	Screen Bracket
	202235	Cover Plate (Use w/o Fan)
42	202071	Screen
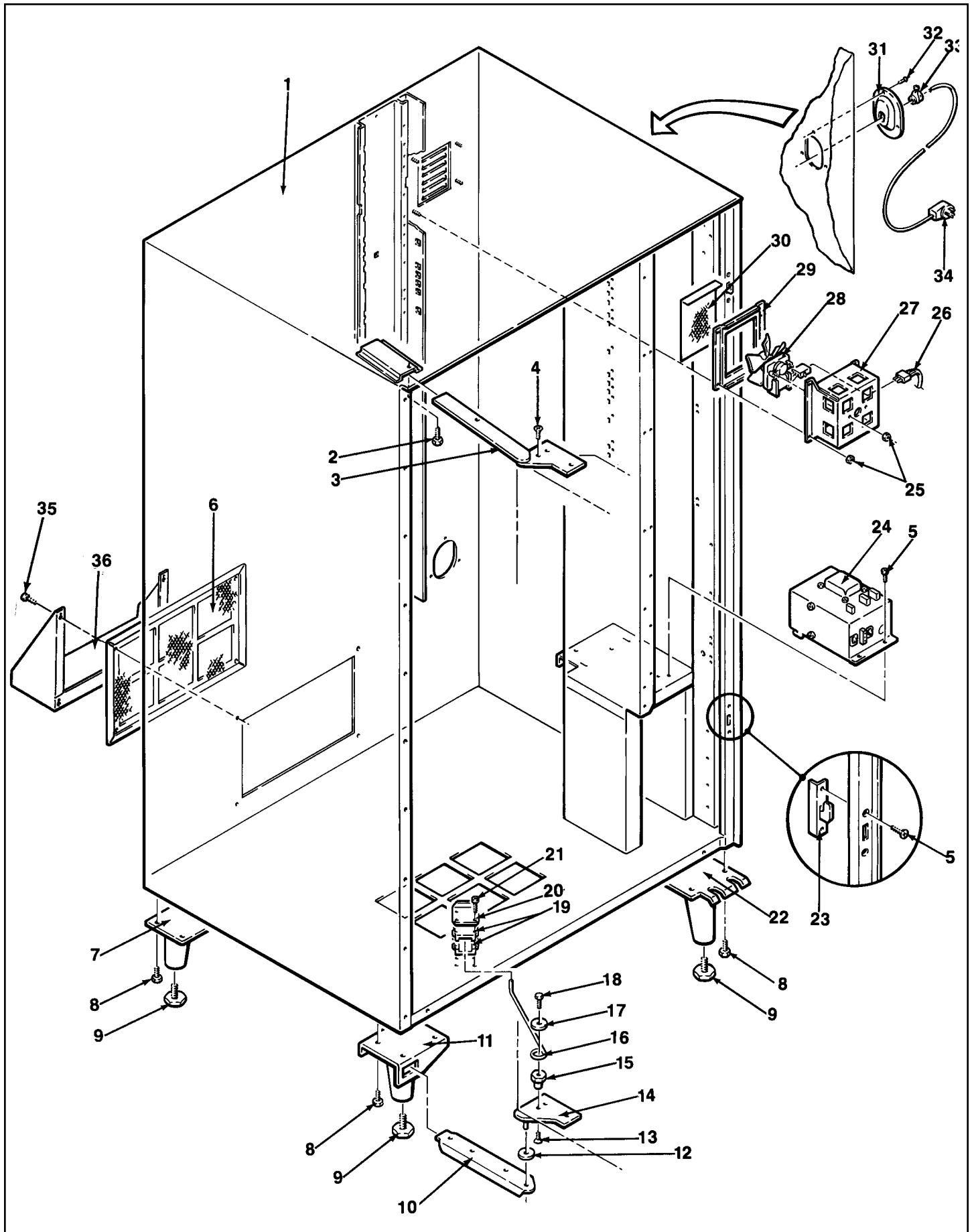
Item No.	Part No.	Description
1	750100-6	Cabinet Assembly Complete, w/Legs, Specify Color, LCM4
2	164-51-7	Screw, Hex Head, Sems (5/16-18 x 3/8)
3	640107-1	Assembly, Upper Hinge, Specify Color
4	420003-1	Screw, Flat Head (1/4-20 x 1/2)
5	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
6	16600047	Assembly, Back Screen
7	600195	Leg Assembly, Rear, Specify Color
8	420187	Screw, Hex Head, Machine (5/16-18 x 3/4)
9	300103	Leg Leveler
	660599	**Leg Leveler Bolt "Multisnack"**
10	202088	Lower Hinge Support, Specify Color
11	600302	Leg Assembly, Front, Pivot Side, Specify Color
12	420010-19	Washer (1 1/16), Quantity 2
13	420003	Screw, Flat Head (1/4-20 x 3/4)
14	640154	Assembly, Lower Door Plate, Specify Color
15	300156	Door Stop Anchor
16	400095	Door Stop
17	420010-10	Washer
18	114-41 -8	Screw, Hex Head, Machine (1 /4-20 x 1/2)
19	440204	Door Stop Friction Pad
20	201042	Door Stop Plate
21	277-IOR16	Screw, Pan Head, Self Tap (10-32 x 1)
22	600197	Assembly, Leg, Front Lock Side, Specify Color
23	600433	Assembly, Door Lock Catch
24		Assembly, Junction Box (see page 47-48 for itemized parts)

Item No.	Part No.	Description
25	404-4	Hex Nut (8-32)
26	680456-1	Harness Fan
27	202072	Fan Housing
28	360122-2	Fan Motor, 120 Volt
	360122-3	**Fan Motor, 230 Volt**
	660441	Kit, Fan Add-On, 120 Volt
	660441-1	**Kit, Fan Add-On, 230 Volt**
	360122-3	Fan Motor, 230 Volt
29	202070	Screen Bracket
	202235	Cover Plate, Use w/o Fan
30	202071	Screen
31	202270	Power Inlet Cord Plate
32	420078-1	Pop Rivet
33	380052-3	Strain Relief Bushing w/Screw
34	16600098	Assembly Power Inlet CordAmbient, 120 Volt
	16800052	Assembly Line Cord w/o Hardware
	16600099	**Assembly, Power Inlet Cord, Complete, 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**
35	276-8R8	Screw Pan HD Phillips (8-32 x 1/2)
36	202690	Deflector
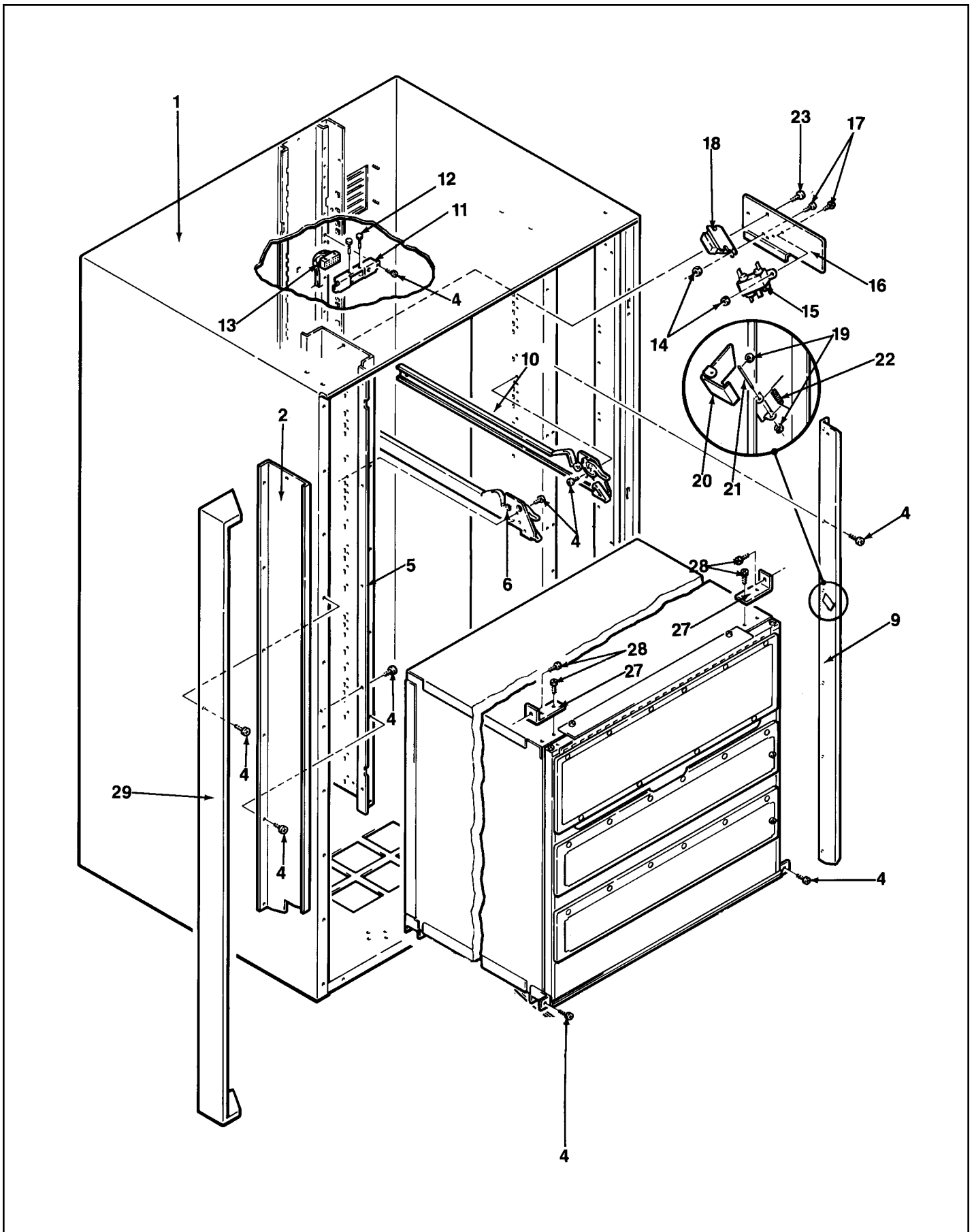
Item No.	Part No.	Description
1	750100-6	Cabinet Assembly Complete, w/Legs, Specify Color, LCM4
2	202119	Filler Plate, Left Front
4	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
5	12000008	Shelf Support, Left Front
6	640177	Assembly, Cabinet Shelf Track, Left, LCM4
9	12000009-01	Filler Plate, Right Front
	16600003	Assembly, Complete, Filler Plate
10	640177-1	Assembly, Cabinet Shelf Track, Right, LCM4
11	202177	Cabinet Receptacle, Mounting Bracket Only
12	420142-2	Drive Pin
13	660516-2	Assembly Complete, Cabinet Back Harness, LCM4
	16600084	**Assembly Complete, Cabinet Back Harness, LCM3**
	16600084-01	**Harness Assembly, 5 Selection, LCM3**
	680612	Harness Cabinet Top Fan (Not Shown)
14	404-6	Nut, Hex Head (6-32)
15	380303	Assembly, Line Filter

Item No.	Part No.	Description
16	16600092	Assembly Complete, Light Ballast & Filter, 120 Volt
	16600092-03	**Assembly Complete, Light Ballast & Filter, 230 Volt, All LCM**
	12000079	Cover Mounting Plate Only
17	210-8R6	Screw, Pan Head (6-32 x 3/8)
18	680514	Ballast Only, 120 Volt
	680513-2	**Ballast Only, 230 Volt, All LCM**
19	751-9	Retaining Ring
20	202376	Latch
21	300211	Latch Pivot Pin
22	400182	Spring
23	216-41 R8	Screw
24	600626	Screen, Front
27	202400	Mounting Bracket
28	210-8R6	Screw
29	600310	Assembly, Cabinet to Door Filler, Specify Color
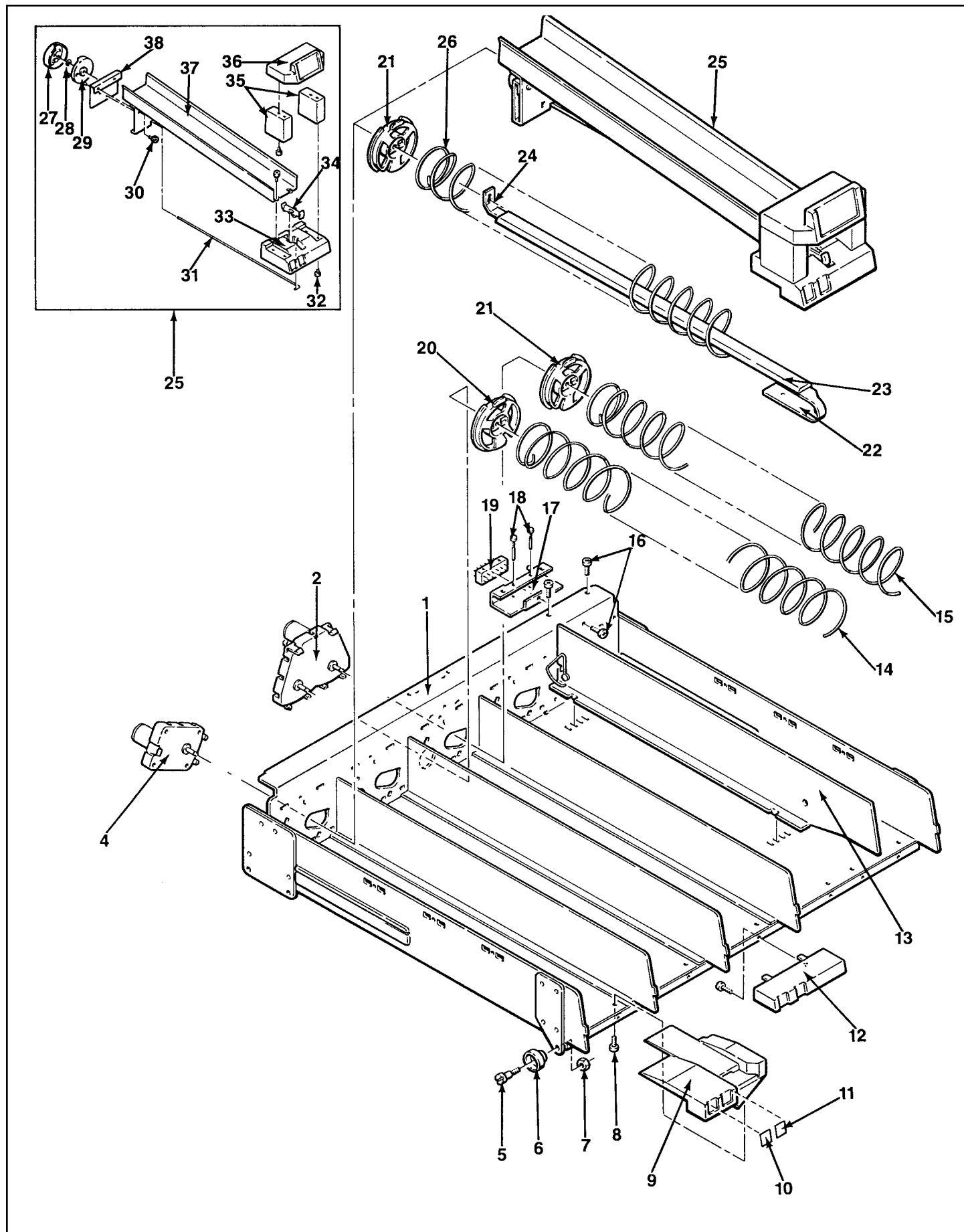
Item No.	Part No.	Description
1	750121-6	Assembly Complete, Snack Shelf w/o Spirals
	750162-6	Assembly Complete, Dual Snack Shelf w/o Spirals
	600240-3	Snack Shelf Only
2	750159-1	Kit, Dual Spiral Add-On
	360169-1	Dual Spiral Motor Only Black & White
4	360138-1	Vend Motor Complete Gray & White
5	300203	Screw, Shelf Roller
6	440362	Shelf Roller
7	437-41	Nut, Keps (28 x 1/4)
8	305-8R6	Screw, Pan Head, Phillips, Plastite (8-16 x 318)
9	440285	Tab Holder, Price & Selection
10	460346	Tab, Item
11	460347	Tab, Price, Assorted, 25¢ - $1.50
	460602	Tab, Price, Assorted, $3.10 - $4.05
	460740	Tab, Price, Assorted (75¢ - $1.25)
		(See Candy Shelf Additional Price Sheets Next Page)
	460529	**Tab, Price, French**
	460540	**Price Tabs, Mexico**
	460561	**Price Tabs, Spanish**
12	440367	Pastry Shelf, Dual Spiral, Front Only
13	640101	Spacer, Snack Shelf
	202770	Snack Shelf Extra Extension (Not Shown)
14	400169-1	Dual Spiral Only, Left Hand, 10 Space, Chrome
	400170-1	Dual Spiral Only, Left Hand, 12 Space, Chrome
	400171-1	Dual Spiral Only, Left Hand, 15 Space, Chrome
	400179-1	Dual Spiral Only, Left Hand, 9 Space, Chrome
	400178-1	Dual Spiral Only, Left Hand, 7 Space, Chrome
15	400168-1	Dual Spiral Only, Right Hand, 10 Space, Chrome
	400120-1	Dual Spiral Only, Right Hand, 12 Space, Chrome
	400121-1	Dual Spiral Only, Right Hand, 15 Space, Chrome
	400166-1	Dual Spiral Only, Right Hand, 9 Space, Chrome
	400164-1	Dual Spiral Only, Right Hand, 7 Space, Chrome

Item No.	Part No.	Description
16	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
17	600601	Shelf Plug, Bracket Only
18	420142-2	Pin Drive
19	660435-2	Assembly Complete, Harness and Plug Bracket
	680446	Harness, Pastry Shelf Only
20	440366	Spiral Retainer, Left Hand, Gray
21	440287	Spiral Retainer, White
22	201534	Front Support Only
23	660330-2	Assembly, Product Rail, Pastry
	440148-1	Plastic Product Rail Only
24	200913	Rear Support Bracket Only, Pastry Spiral
25	750083	Kit, Can Dispenser
26	400127-1	Spiral, Snack, 10 Space, Chrome
	400128-1	Spiral, Snack, 12 Space, Chrome
	400129-1	Spiral, Snack, 15 Space, Chrome
	400136-1	Spiral, Snack, 30 Space, Chrome
	400137-1	Spiral, Snack, 40 Space, Chrome
	400153-1	Spiral, Snack, 7 Space, Chrome
	400162-1	Spiral, Snack, 6 Space, Chrome
	400163-1	Spiral, Snack, 18 Space, Chrome
27	440201	Drive Cam, Rear
28	751-31	Retaining Ring (31)
29	440200	Drive Cam, Front
30	300184	Bushing, Shoulder
	277-1OR8	Screw, Type 23 (10-32 x 1/2)
31	400094	Wire, Actuator
32	305-8R6	Screw, Pan Head, Phillips, Plastite (8-16 x 318)
33	440196	Trim, Price & Selection
34	440199	Lever, Stop
35	440198	Leg, Top Can Guide & Sign Trim
36	440197	Top, Can Guide & Sign Trim
37	600308	Dispenser, Can, Trough Only
38	640109	Cam, Mounting Bracket & Spring Assembly
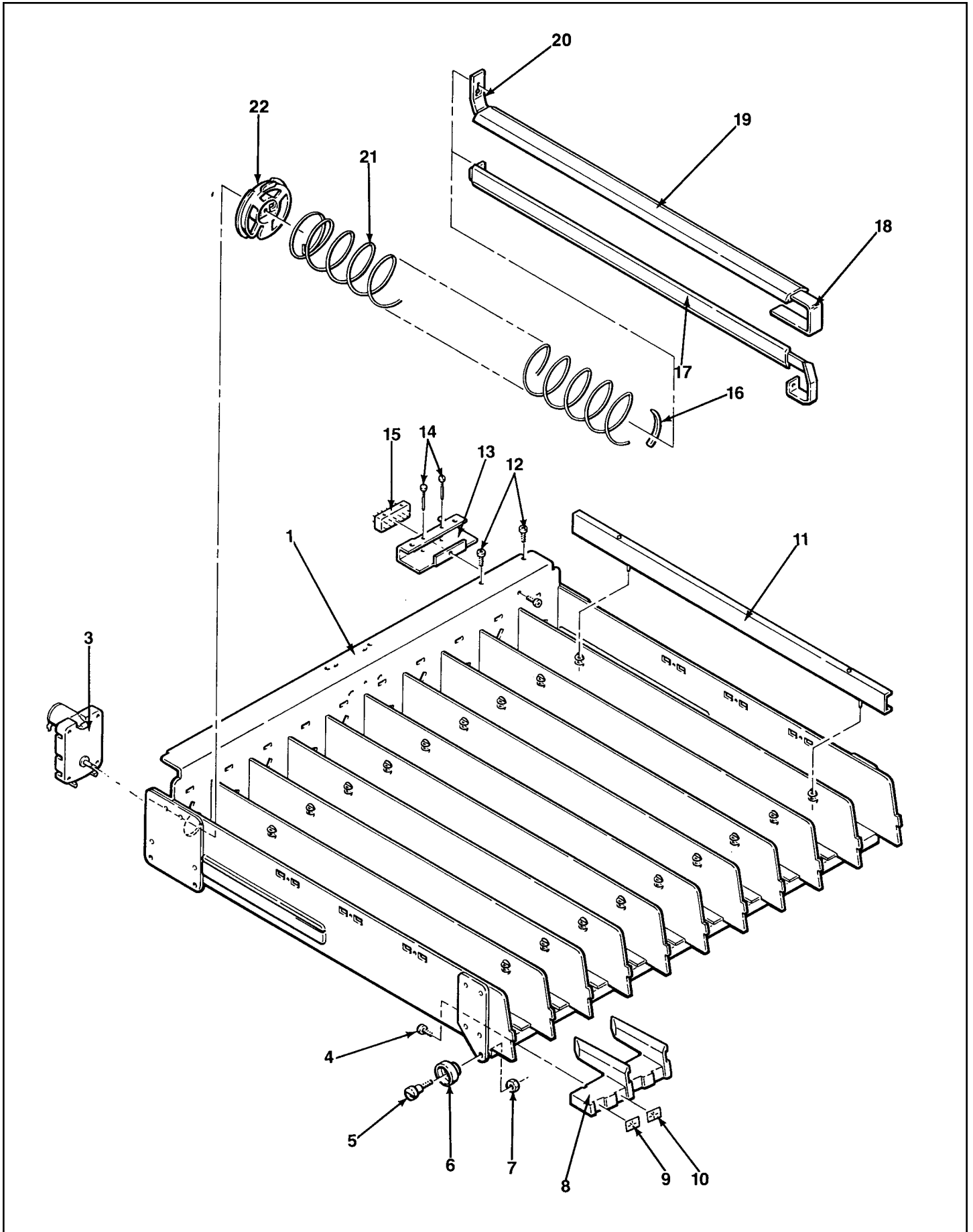
Item No.	Part No.	Description
1	750122-7	Assembly Complete, Candy Shelf w/o Coils, LCM4
	600239-2	Candy Shelf Only, LCM4
3	360138-1	Vend Motor Complete, Gray & White
	360155-1	Vend Motor Complete, Half-cycle, Brown & Black
	750137-2	Kit, Half-cycle Add-on
4	305-8R6	Screw, Pan Head, Plastite (8 x3/8)
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-set
9	460346	Tabs, Item
10	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¢ - 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	Tabs, Price, All $1.30 - $1.35
	460347-12	Tabs, Price, All $1.40 - $1.45
	460347-13	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
	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
	460740	Tabs, Price (75¢ - $1.25)
	460529	**Tabs, Price, French**
	460540	**Tabs, Price, Mexico**
	460727	**Tabs, Price, Italian**

Item No.	Part No.	Description
11	660178	Assembly, Candy Spacer
	660178-4	Assembly, Candy Spacer, Use "/Half-cycle Motor
12	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
13	600601	Plug, Shelf, Bracket Only
14	420142-2	Pin, Drive
15	660435-1	Harness & Bracket Complete
	680445-1	Harness, Candy Shelf Only
16	440141-1	Product Pusher, Candy
17	660296	Guide, Small Product
	660503	Assembly, Product Rail, Half-cycle Motor
18	201258	Front Support Only
19	660191	Assembly, Product Rail, Candy Spiral
	440148	Plastic Product Rail Only
20	200913	Rear Support Only
21	400120-1	Spiral, Candy, 12 Space, Chrome
	400121-1	Spiral, Candy, 15 Space, Chrome
	400122-1	Spiral, Candy, 18 Space, Chrome
	400123-1	Spiral, Candy, 24 Space, Chrome
	400135-1	Spiral, Candy, 30 Space, Chrome
	400138-1	Spiral, Candy, 40 Space, Chrome
	400164-1	Spiral, Candy, 7 Space, Chrome
	400166-1	Spiral, Candy, 9 Space, Chrome
	400167-1	Spiral, Candy, 6 Space, Chrome
	400168-1	Spiral, Candy, 10 Space, Chrome
22	440287	Lock, Spiral

convertible shelf
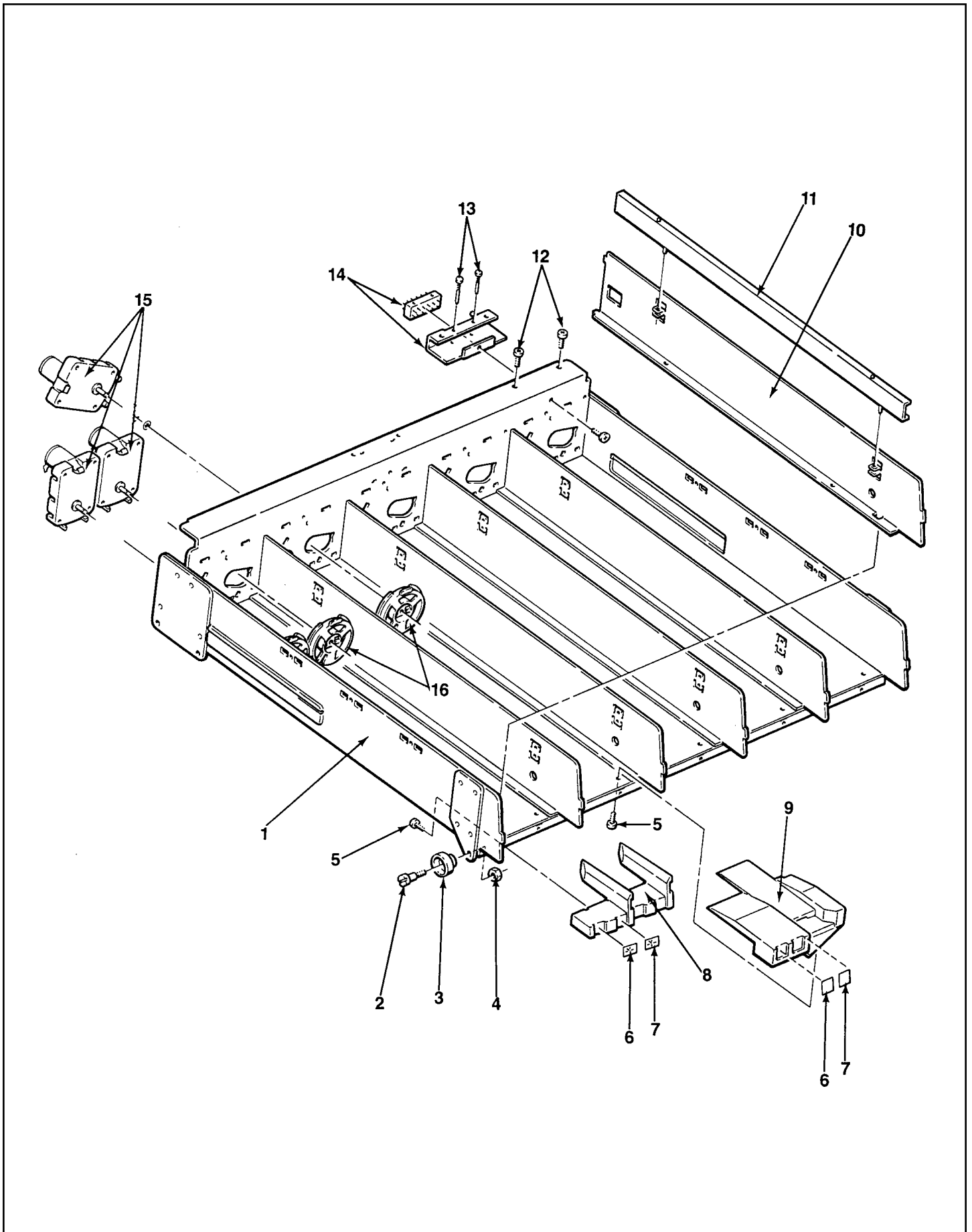
Item No.	Part No.	Description
1	750147-12	Assembly Complete, Convertible Shelf w/o Spirals (5 Snack Selections)
	750147-13	Assembly Complete, Convertible Shelf w/o Spirals (4 Snack Selections and 2 candy)
	750147-14	Assembly Complete, Convertible Shelf w/o Spirals (3 Snack Selections and 4 Candy)
	750147-15	Assembly Complete, Convertible Shelf w/o Spirals (2 Snack Selections and 6 Candy)
	750147-16	Assembly Complete, Convertible Shelf w/o Spirals (1 Snack Selection and 8 Candy)
	750147-17	Assembly Complete, Convertible Shelf w/o Spirals (10 Candy Selections)
	750162-6	Assembly Complete, Dual Spiral Snack Shelf w/o Spirals (5 Snack Selections)
	750159-1	Kit, Dual Spiral Add-On w/o Spirals (Use per selection)
	600240-3	Convertible Snack Shelf Only
2	300203	Screw, Shelf Roller
3	440362	Roller, Shelf
4	437-41	Nut, Keps (28 x 1/4)
5	305-8R6	Screw, Pan Head, Plastite (8-16 x3/8)
6	460346	Tabs, Item
7	460347	Tabs, Price, Assorted 25¢ - $1.50
	460602	Tabs, Price, Assorted $3.10 - $4.05
	460740	Tabs, Price, Assorted (75¢ - $1.25)
	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¢ - 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

Item No.	Part No.	Description
	460347-11	Tabs, Price, All $1.30 - $1.35
	460347-12	Tabs, Price, All $1.40 - $1.45
	460347-13	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
	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**
	460727	**Tabs, Price, Italian**
	460561	**Tabs, Price, Spanish**
	460644	**Tabs, Price, English**
8	440262	Tab Holder, Price and Selection, Offset Candy (See page 25, item 21 for Candy Spirals)
9	440285	Tab Holder, Price and Selection, Snack (See page 23, item 26 for Snack Spirals)
10	200753-2	Shelf Divider, Candy
11	660178	Assembly, Candy Spacer
12	276-8R6	Screw, Pan Head, Self Tap (8-32 x 3/8)
13	420142-2	Pin, Shelf Plug
14	660435-1	Harness, Candy Shelf with Plug Bracket
	600601	Plug, Shelf, Bracket Only
15	360138-1	Vend Motor Complete, Gray & White
	750150-2	Kit, Convertible Shelf, 2 Selection Add-On
16	440287	Lock, Spiral

Item No.	Part No.	Description
1	16600010	Assembly Complete, Gum & Mint Shelf
	16600011	**Assembly Complete, Gum & Mint Shelf, Export Only. Australia**
	16600012	**Assembly Complete. Gum & Mint Shelf, Export**
	16000004	Gum and Mint Shelf Only
	16000007	**Gum and Mint Shelf Only, Export**
	750165-27	Kit, Gum and Mint Add-On
	750165-28	**Kit G/M add on Export**
	750165-29	**Kit G/M add on Australia**
2	420040-9	Snap Bushing and Hole Plug
3	201412	Thin Mint Adapter (2 per selection)
4	201458	Gum and Mint Rear Pusher Stop
	201458-2	**Gum and Mint Rear Pusher Stop, Export Only**
5	276-8R6	Screw, Pan Hd, Self-Tap Phillips (8-32 x 318)
6	217-8R22	Screw, Pan Hd, Phillips Type AB (1-3/8)
7	300184	Shoulder Bushing
	277-10R8	Screw Type 23 (10-32 x 1/2)
8	12000032-01	Gum and Mint Shelf Latch, Left Side
9	360105-1	Gum and Mint Motors (Black & White)
10	420142-2	Drive Pin
11	600601	Gum and Mint Shelf Plug Only
12	440267	Ejector, Gum and Mint
13	440266	Gum and Mint Shelf Front Base
14	305-7R16	Screw, Pan Hd, Plastite (7 x 1)
15	460352	Decal, Gum and Mint Shelf Latch
16	440270	Display Stop, Gum and Mint Column Front
17	440273	Gum and Mint Shelf Front
18	305-7R22	Screw, Pan Hd, Plastite (7 x 1-3/8)
19	16800003	Harness, Gum and Mint Shelf
	16600065	Harness, Gum and Mint Shelf, W/BRKT
	16600068	**Harness G & M Shelf & Bracket, Export Only**
	16800006	**Harness Only, Export**

Item No.	Part No.	Description
20	12000002-02	Strap, Gum and Mint Pusher Stop
	12000002	**G & M Pusher Stop Strap, Export Only**
21	262-6R5	Screw, Flat Hd, Phil, Type 23 (6-32 x 5/16)
22	400106	Spring, Gum and Mint Pusher Return
23	660314	Assembly, Complete Gum and Mint Display Hinge
	660314-1	**Assembly, Complete Gum and Mint Display Hinge, Export Only. Aus.**
24	12000032	Gum and Mint Shelf Latch, Right Side
25	420023	Wing Nut (8-32)
26	201411-1	Column Spacer, Left
27	201411	Column Spacer, Right
28	420296	Shelf Grommet
29	460351	Decal, Caution, Gum and Mint Shelf
30	201409	Cover, Gum and Mint Shelf
	201530	**Cover Gum and Mint Shelf, Export Only**
31	660313	Assembly, Complete, Gum and Mint Pusher and Spring
32	801 C-125-12	Roll Pin (1/8 x 3/4)
33	440265	Pusher Only
34	440274	Roller, Gum and Mint Pusher
35	201691	Shelf Closer
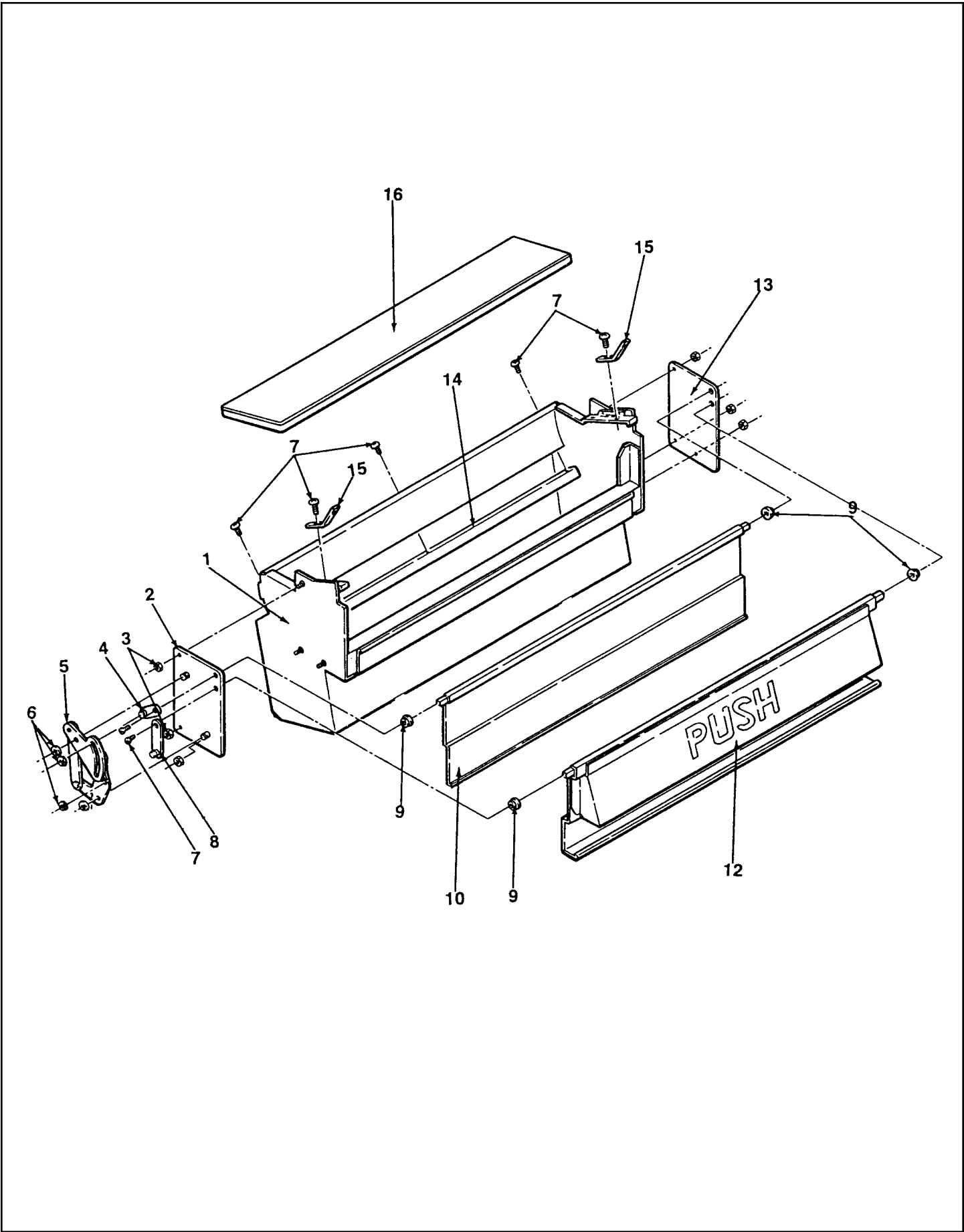
Item No.	Part No.	Description
1	660558-2	Delivery Bin Assembly, Complete, Gray
	660558	Delivery Bin Assembly, Complete, Black
	600704	Delivery Bin Only
2	640187-1	Arm Mounting Bracket
3	438-8	Nut, Keps (8-32)
4	640098	Inner Door Bin Arm
5	640100-1	Bin Door Drive Assembly
6	751-37	Retaining Ring (37)
7	276-8R6	Screw, Pan Head, Self Tap, Phillips (8-32 x 3/8)
8	640097	Door Drive Arm
9	440129	Door Bearing
	420282	Bin Door Washer (not shown)
10	200763	Inner Door
	200763-3	Inner Door, Steel
12	440373-2	Door, Delivery Bin, Gray
	440373	Door, Delivery Bin, Black
13	202285	Arm Mounting Bracket (lock side)
14	200902-1	Baffle, Rear Delivery Bin
15	200906	Delivery Bin Anchor Strap
16	420315	Delivery Bin Pad Assembly, Can Dispenser

Item No.	Part No.	Description
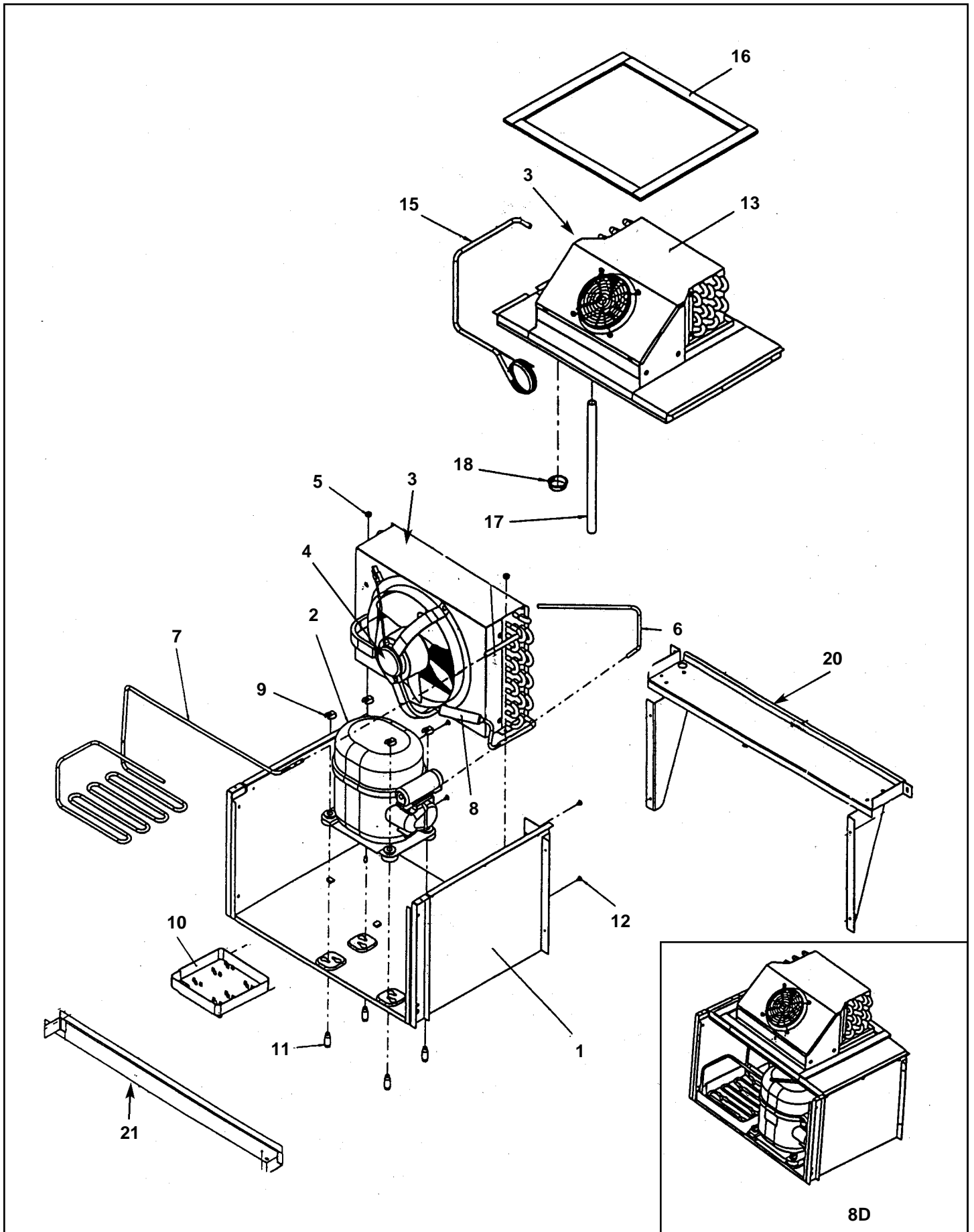
refrigeration assembly

Key	Description	117V Ambient	117V Chilled	230V, 50 Hz Ambient	230V, 50 Hz Chilled	220V, 60 Hz Chilled
	Compressor Assembly Complete	16600101	16600102	16600101-01	16600102-01	16600103
1	Condenser Assembly Only, Complete	16600164-02	16600164	16600164-03	1660164-01	16600164-04
1a	Chassis Weldment	16600105	16600105	16600105	16600105	16600105
2	Compressor Complete w/Start Components	16700001	360270	16700002	360271	16700004
2a	Compressor Only	16700001-01	360270-1	16700002-01	360271-1	16700004-01
2b	Start Capacitor	16700001-02	360270-2	16700002-02	360271-2	16700004-08
2c	Compressor Foot	16700001-04	360270-4	16700002-04	360271-4	16700004-05
2d	Capacitor End Cap	16700001-05	360270-5	16700002-05	360271-3	16700004-09
2e	Thermal Overload Switch	16700001-08	360270-8	16700002-08	360271-8	16700004-04
2f	Start Relay	16700001-11	360270-11	16700002-11	360271-11	16700004-10
3	Condenser Coil Only w/fan and motor	660720	660720	660720-1	660720-1	660720-1
3a	Condenser Coil Only	420422	420422	420422	420422	420422
3b	Condenser Shroud	202879	202879	202879	202879	202879
4	Condenser fan w/housing	360269	360269	360269-1	360269-1	360269-1
5	1/4 x 20 Keps Nut	438-41	438-41	438-41	438-41	438-41
6	Tube Process	420425	420425	420425-1	420425-1	12100006
7	Tube, Compressor Discharge	12100001-02	12100001	12100001-01	12100001-01	12100007
8	Drier	12100021	12100021	12100021	12100021	12100021
9	Compressor Mounting Clip	420426	420426	420426	420426	420426
10	Condensation Pan	440459	440459	440459	440459	440459
11	Compressor Mounting Pin	300225	300225	300225	300225	300225
12	#8 x 3/8 Pan Head Screw	210-8R6	210-8R6	210-8R6	210-8R6	210-8R6
13	Evaporator Assembly Complete, w/fan	16600029	660715	16600029-01	660715-1	660715-1
13a	Evaporator Coil	12100002	12100002	12100002	12100002	12100002
13b	Evaporator Pan Assembly	660719	660719	660719	660719	660719
14	Evaporator Fan Assembly	16600027	660716	16600027-01	660716-1	660716-1
14a	Evaporator Fan Motor	360202	360202	360202-1	360202-1	360202-1
14b	Evaporator Fan Guard	400196	400196	400196	400196	
15	Capillary/Suction Line Assembly	420423-2	420423	420423-1	420423	12100008
16	Foam Adhesive Back (67 Inches)	420391	420391	420391	420391	420391
17	Drain Tube	440318-4	440318-4	440318-4	440318-4	440318-4
18	Open/Close Bushing	420318	420318	420318	420318	420318
19	Timer Bypass Harness (Not Shown)	16800089	16800089	16800089	16800089	16800089
20	Front Cooler Support Only 128/LCM5	600833	600833	600833	600833	600833
20a	Front Cooler Support Only 129/LCM4	16000012	16000012	16000012	16000012	16000012
21	Rear Bracket Support Only 128/LCM5	202880	202880	202880	202880	202880
21a	Rear Bracket Support Only 129/LCM4	12000019	12000019	12000019	12000019	12000019
22	Harness, Compressor (Not Shown)	680651	680651	680651	680651	16800027

Note 1: Complete Compressor Assemblies do not include Item Numbers 20 or 21, Remove these parts before sending in a Compressor Assembly for repair.

Ambient Machines=only the can compartment is cooled.
Chilled Machines=both the can and the snack compartment are chilled.

5C

5B
5A
5B

5E

5D

2

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11

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4

Item No.	Part No.	Description
1	660704	Assembly Complete Condensing Unit, 120 Volt, LCM4, Chilled
	660704-01	**Assembly Complete Condensing Unit, 230 Volt, LCM4, Chilled**
	660704-02	Assembly Complete Condensing Unit, 120 Volt, LCM4, Ambient
	660704-03	**Assembly Complete Condensing Unit,230 Volt, LCM4, Ambient**
	360270	Compressor Only. 120 Volt, Chilled
	360271	**Compressor Only. 230 Volt, Chilled**
	16700001	Compressor Only. 120 Volt, Ambient
	16700002	**Compressor Only. 230 Volt, Ambient**
2	438-41	Nut, Keps (1/4-20)
3	420426	Compressor Mounting Clip.
4	300225	Compressor Mounting Pin.
5	660720	Assembly, Condenser, 120 Volt
	660720-1	**Assembly Condenser, 230 Volt**
5A	210-8R6	Screw Ph Tr/Nibs Hd.(#8 x 3/8) Qty 7
5B	460041	Aero Foam - Adhesive Backed (14 inches each)
5C	420422	Condenser Coil
5D	360269	Condenser Fan w/Housing
	360269-1	**Condenser Fan w/Housing, 230 Volt**
5E	202879	Condenser Shroud
6	12100021	Drier
7	640240	Refrigeration Mounting Plate Assembly
8	460713	Plastic Base LCM4, 120V w/Wide Spaced Pins
	460728	**Plastic Base LCM4, 220V w/Narrow Spaced Pins**
9	420428	Tube - Cond. Outlet
10	420425	Tube - Process, 120 Volt
	420425-01	**Tube - Process, 230 Volt**
11	12100001	Tube - Compressor Discharge, 120 Volt,Chilled
	12100001-01	**Tube - Compressor Discharge, 230 Volt,Chilled**
	12100001-02	Tube - Compressor Discharge, 120 Volt, Ambient
	12100000-1	**Tube - Compressor Discharge, 230 Volt,Ambient**

Item No.	Part No.	Description

Item No.	Part No.	Description
	660713	Front Panel Cooler Assembly, LCM 4, Ambient
	660714	Front Panel Cooler Assembly, LCM 4 - Chill (includes items 1-15)
1	440395	Frame, Front Panel, LCM 4, Ambient
	440441	Frame, Front Panel, LCM 4 Chill
2	420314	Gasket
3	600697	Top Support Weldment, Cooler Front
4	210-8R6	Screw, Truss Head, Type A (8 x 3/8)
5	202393-1	Bottom Support, Cooler Front
6	202394	Side Support, Cooler Front
7	440398-1	Shoulder Nut, Plastic, Short
10	660709	Service Door Assembly (see page 43)
11	217H6R5	Screw, Truss Head, Type B (6 x 5/16)
12	460677	Hinge Assembly, Vend Door, Complete
13	217H6R8	Screw, Pan Head, Phillips, Type B (6 x 1/2)
14	440398	Shoulder Nut, Plastic, Long
15	660708	Vend Door Assembly (see page 43)

Item No.	Part No.	Description
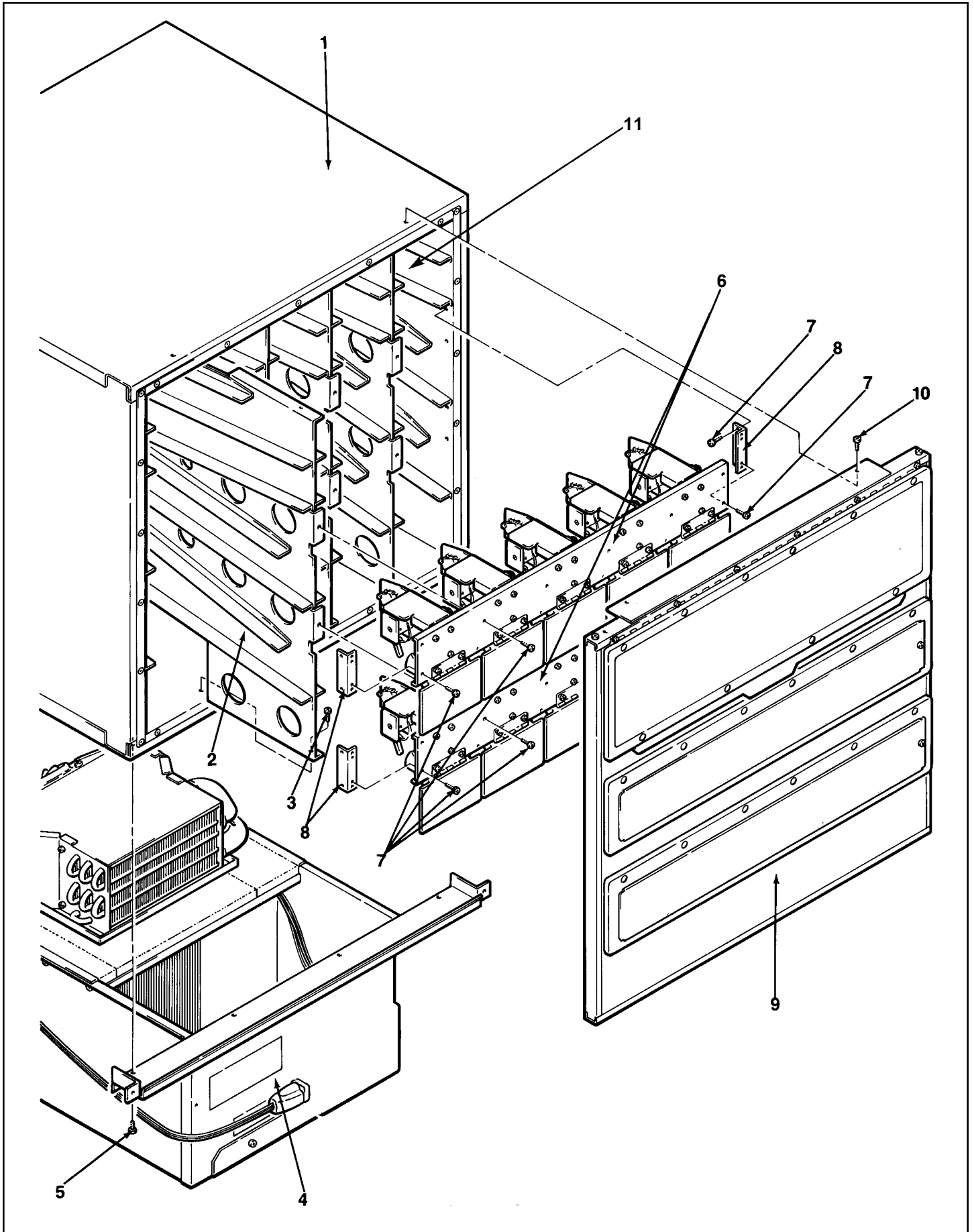
Item No.	Part No.	Description
1	16600033-01	Cooler Assembly Only, US (355 ML) AMB
	16600034-01	**Cooler Assembly Only, (375 ML) AMB Special 5 3/8 Aust.**
	16600023-01	**Cooler Assembly, UK (330 ML) AMB**
	16600037-01	**Cooler Assembly, UK/Juice AMB**
	16600033	Cooler Assembly, US (355 ML) Chill
	16600034	**Cooler Assembly, Aust. (375 ML) Chill**
	16600023	**Cooler Assembly, UK (330 ML) Chill**
	16600037	**Cooler Assembly, UK/Juice Chill**
	600696	Cabinet Only, 120V & 240V
	660643	Assembly, Cross Flow Blower & Bracket (Not Shown)
	360235	Blower Only
2	640195	Divider Panel Assembly
	640197	Assy. Divider Panel U.K.
	640198	**Assy Divider Panel Guides Both Sides**
	640199	**Assy Divider Panel Guides Both Sides**
	640200	**Assy Divider Panel Guides Both Sides**
3	276-6R4	Screw, Pan Head, Type 23 (6-32 x 1/4)
4		Compressor Unit, Assembly Complete (see page 33)
5	210-8R6	Screw, Pan Head, Type A (#8 x 3/8)
6	660538	Vend Motor Rack Assembly (see page 45)
7	276-8R6	Screw, Pan Head, Type 23 (8-32 x 3/8)
8	202398	Motor Rack Mounting Bracket
9	660713	Front Panel, Cooler Assembly, LCM 4 (see page 37)
	660714	Front Panel, Cooler Assembly, LCM 4 Chill
10	217-8R10	Screw, Pan Head, Type B (#8 x 5/8)
11	202441	Filler Plate (Not Shown)
	202441-1	**Filler Plate European**
	202441-2	**Filler Plate Australian**
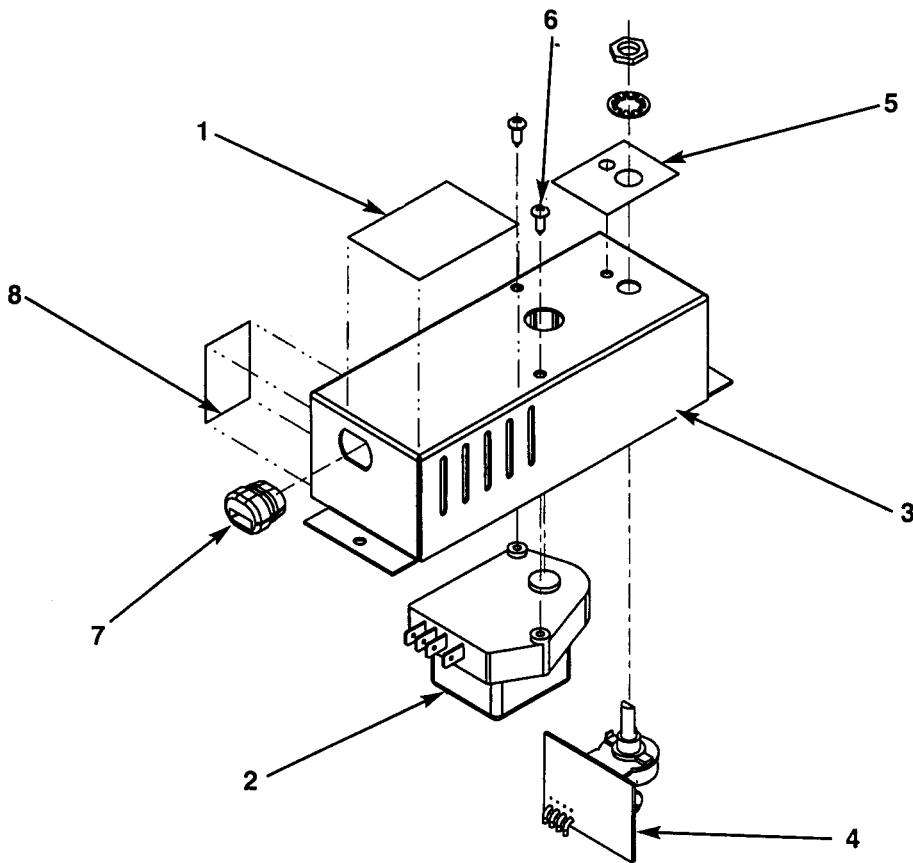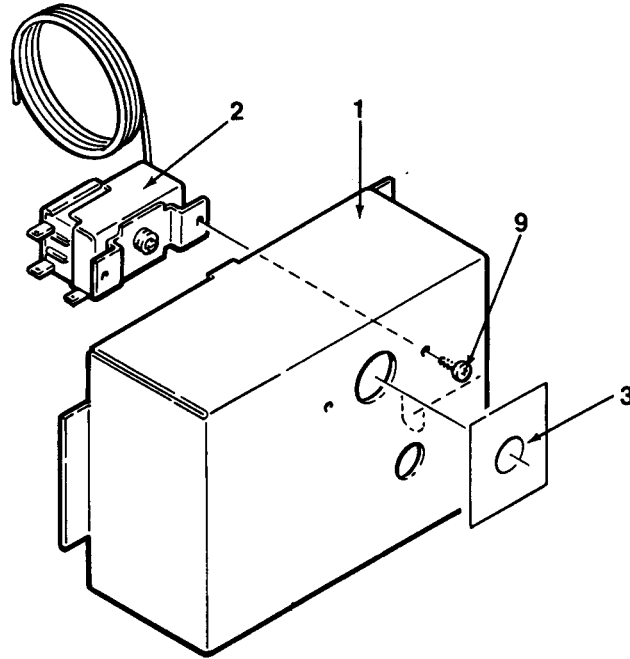
Item No.	Part No.	Description
1	660693	Cold Assembly, 120V (Includes items 1-7) LCM4
	202849	Cold Control Housing Only, 120V
	202366	**Cold Control Housing Only, 220/240V**
	460642	Decal, Voltage Disconnect (Not Shown)
2	360204	Cold Control Switch
	680648	Cold Control Harness (Not Shown)
3	460571	Label, Cold Control
4	276-8R6	Screw, Pan Head (8-32 x 7/16)

Item No.	Part No.	Description

timer assembly

Item No.	Part No.	Description
	16600031	Assembly Complete. Timer/Snack Control. 120V LCM4
	16600031-01	**Assembly Complete. Timer/Snack Control. 220V LCM4**
1	**660690-2**	**Assembly Complete. Timer/Snack Control. 220V Chill**
	16600031-01	**Assembly Complete. Timer/Snack Control. 208/240V - 50 HZ**
	460642	Decal, Voltage Disconnect
2	380320	Defrost Timer 120V
	380320-01	**Defrost Timer. 208/240V**
	380320-02	**Defrost Timer 220V**

Item No.	Part No.	Description
3	202844	Defrost Timer Box Only
	680650	Defrost Timer Harness LCM4/5 Chill (Not Shown)
4	360248	Assembly Fan Control PC Board LCM4/5 Chill
5	460709	Label, Snack Section Cold Control
	380293	Molex Plug. 4 Pin (Not Shown)
6	201-6R7	Screw, Right Hand, Type B #6 x 7/16
7	380052-5	Strain Relief Bushing
8	**460458-03**	**Voltage Decal 208/220/240**

can door assembly

The diagram contains the following text labels on the load chart:

PERFECT LOADING GUIDE

LOAD →	H1	H2	H3	H4	H5
LOAD →	G1	G2	G3	G4	G5
	G1	G2	G3	G4	G5
	H1	H2	H3	H4	H5
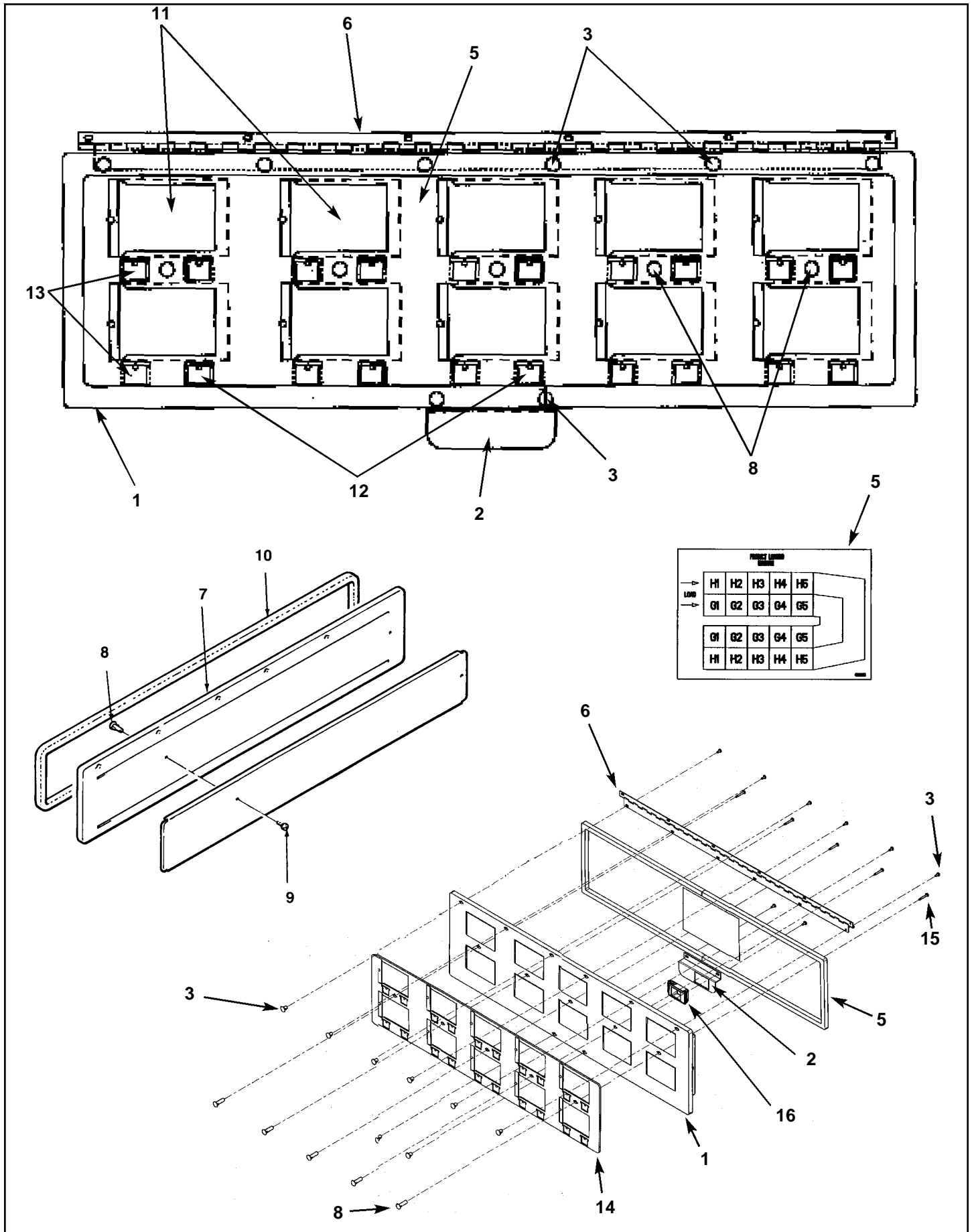
Item No.	Part No.	Description
1	660709	Service Door Assembly (includes items 1-8)
	440453	Service Door Only
2	202848	Handle Service Door
3	440398-1	Shoulder Nut, Plastic (21/32) Qty. 8
	217H6R5	Screw, Pan Head, Type B (#6 x 5/16) Qty 8
5	460635	Decal, "Product Loading Diagram"
	460771-1	Decal, "Service Door Front" Only
	420347	Gasket 63" Qty 2 pcs.
6	460632	Hinge, Service Door
7	660708	Vend Door Assembly
	440455	Vend Door With Decal Only
8	440398	Shoulder Nut, Plastic (3/4) Qty 5
9	217H6R8	Screw, Pan Head, Type B (#6 x 1/2) Qty. 5
10	420346	Gasket 59" Qty. 2 pcs.
11	660551	Labels, Asorted Selections
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¢ - 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	Tabs, Price, All $1.30 - $1.35
	460347-12	Tabs, Price, All $1.40 - $1.45
	460347-13	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
	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	460436	Item Tabs
14	440458	Price/Selection Trim Frame
15	217H6R14	Screw, Pan Head, Type B (#6 x 7/8)
16	13100009	Latch, Push to Close (.050 THK)

Item No.	Part No.	Description
	660538	Vend Motor Rack Assembly (includes items 1-5)
	660538-1	**Vend Motor Rack Assembly (includes items 1-5 U.K.)**
	660545	**Vend Motor Rack Assembly (includes items 1-5) 5 3/8 spc, Australia**
1	202392	Motor Assembly Mounting Bracket, Bare 5 1/16 special
	202421	**Motor Assembly Mounting Bracket, Bare**
	202398	Motor Assembly Mounting Bracket, Bare
2	276-8R6	Screw, Pan Head (8-32 x 3/8)
3	380307	Cable Tie
4	680558	Can Rack Harness, LCM4
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	Can Dispenser
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)

Item No.	Part No.	Description

main junction box

Item No.	Part No.	Description
1	16600070	Assembly Junction Box, 120V, AMB, LCM
	16600051	Assembly Junction Box, 120V, LCM Chill
	16600071-01	**Assembly Junction Box,120V, LCM Export**
	16600072-01	**Assembly Junction Box,230V, LCM Export**
	16600056-01	**Assembly Junction Box,120V, LCM Chilled Export**
	16600052-01	**Assembly Junction Box,230V, 50HZ,LCM Chilled Export**
	16600052-03	**Assembly Junction Box,220V, 60HZ,LCM Chilled Export**
	12000098	Junction Box Only
2	13900001	Transformer, 120V
	13900002	**PS Transformer, 230V**
3	438-8	Nut, Keps (438-8)
4	380241	Circuit Breaker, 3 AMP
5	380243	Switch, Rocker (On-Off)
6	380304	Filter, P.S.
7	13600002	Cold Control
8	380320	Defrost Timer, 120V
	380320-1	**Defrost Timer, 230V**
	380320-2	**Defrost Timer, 220V, 60HZ**
9	460571	Label, Cold Control
10	380303	Filter-Light
11	216-41R8	Screw, PN/NIBS HD Type AB (1/4 x 1/2)

Item No.	Part No.	Description
12	380285	Terminal Block
13	440065	Mylar Insulation
14	420040-2	Snap Bushing/Hole Plugs (1/2)
14A	420040-1	Snap Bushing/Hole Plugs (5/8)
	420040-12	Snap Bushing/Hole Plugs (7/8)
15	210-8R6	Screw PH TR/NIBS A (#8 x 3/8)
16	276-8R6	Screw PH PAN HD T-23 (8-32 x 3/8)
17	201-6R7	Screw RD HD Type B (#6 x 7/16)
18	460642	Decal, Voltage Disconnect
19	202843	Door Switch Box
	12000122	**Door Switch Box, Export**
20	**380262**	**Door Switch, Export**
21	380321	Wire Saddle Side Entry
22	380263	Cheat Interlock Tool
23	16800021	Harness Junction Box, LCM Domestic Chill
	16800031	Harness Junction Box AMB, Domestic, 120V
	16800014	**Harness Junction Box, Export Chill, 220/230V**
	16800014-01	**Harness Junction Box,Export Chill 120V**
	16800030-01	**Harness Junction Box AMB, Export 120V**
	16800030	**Harness Junction Box AMB, Export 230V**
24	380078	Cable Tie
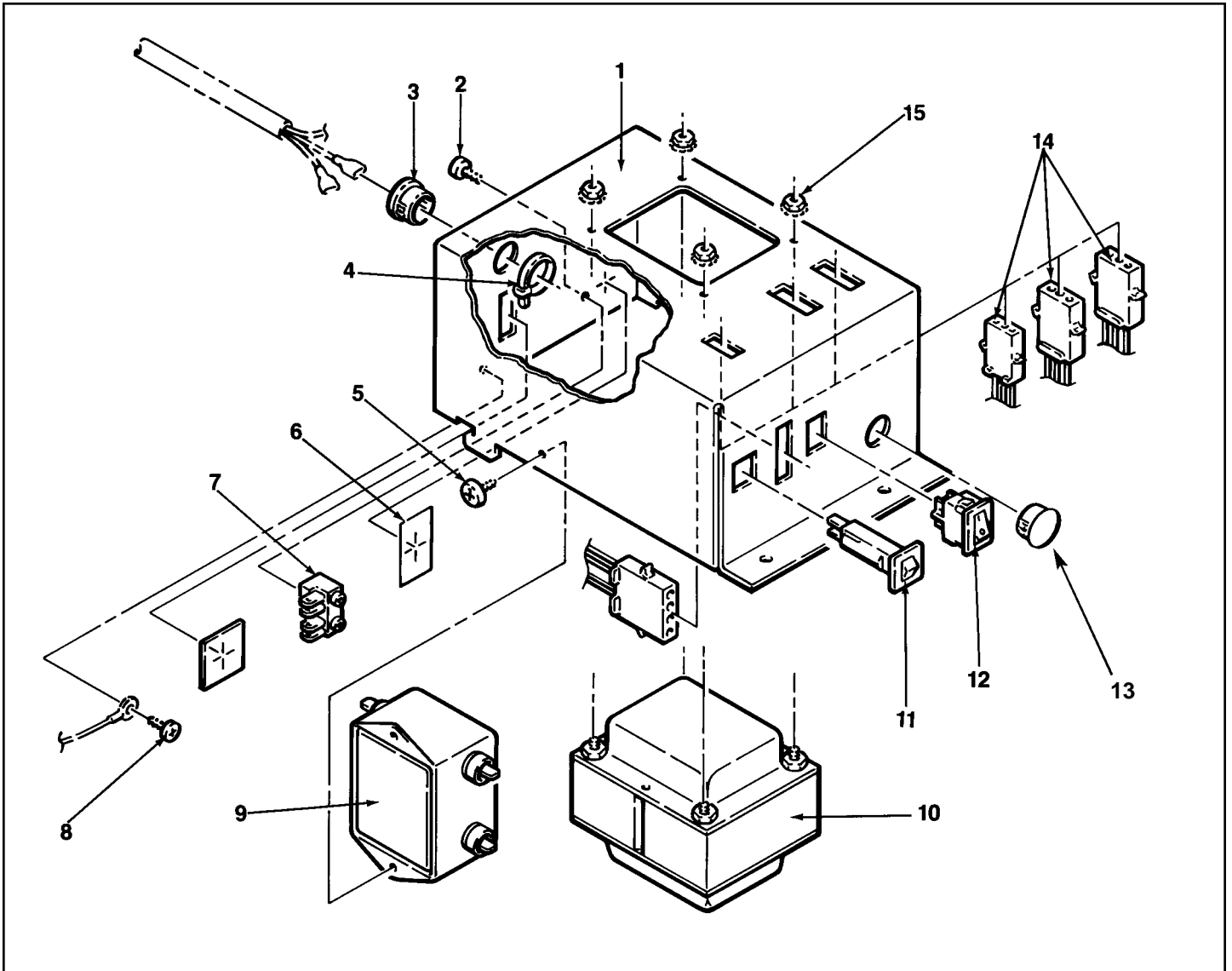
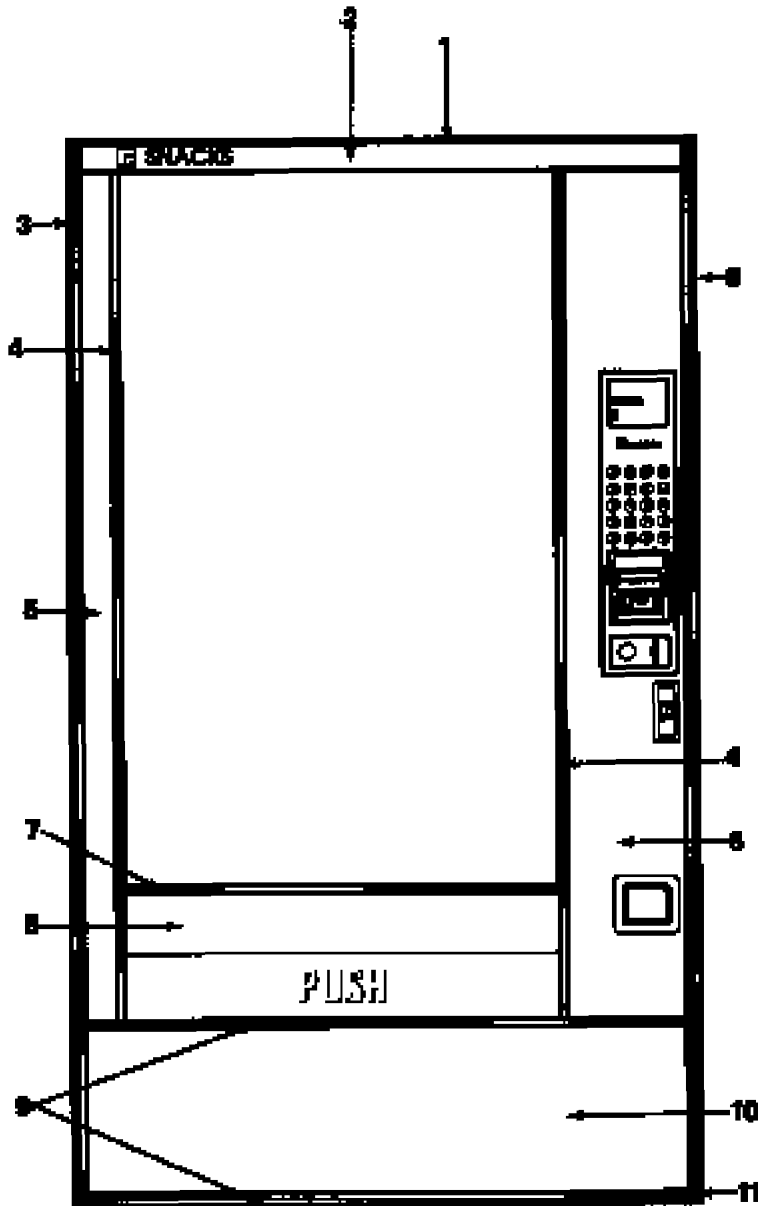| Item No.	Part No.	Description
1	660549	Main Junction Box Assembly, Complete, LCM4 & LCM3 Chilled, 230 Volt, France
	660549-1	Main Junction Box Assembly, Complete, LCM4, 240 Volt, Multisnack
	660548-1	Main Junction Box Assembly, Complete, LCM4, 230 Volt, Australia
	202355	Main Junction Box Only
2	210-8R6	Screw, Pan Head, Self Tap (8 x 3/8)
3	420040-2	Snap Bushing (1/2)
4	380078	Cable Tie
5	216-41R8	Screw, Pan Head, Type AB (1/4 - 1/2)

Item No.	Part No.	Description
6	440065	Mylar Insulation
7	380285	Terminal Block
8	276-8R4	Screw, Pan Head, Self Tap (8-32 x 1/4)
9	380304	RFI Filter
10	360203	Transformer, 220/240 Volt
11	380241	Circuit Breaker, 3 Amp
12	380243	Rocker Switch
13	420040-1	Snap Plug (1/2)
14	680570-1	Harness, Junction Box, 220/240 Volt
15	438-8	Nut, Keps (8-32)
		Parts Not Shown
	380262	Door Switch
	460458-2	Voltage Decal 240V
	460458-3	Voltage Decal 230V
	460642	Voltage Disconnect Label
	600698	Door Switch Box Only

Item No.	Part No.	Description
1	340044-5	Trim, Top, For use w/Vinyl Insert
2	440258-2	Trim, Top, "Snacks"Insert
3	340057	Trim, Outside Vertical (right or left)
4	340058-2	Trim, Inside Vertical (right or left)
5		PANEL, LEFT SIDE, VERTICAL
	202059	Presidential Walnut, Vinyl
	202059-1	Honeytone Teak, Vinyl
	202059-2	Painted, Specify Color
6		PANEL, RIGHT SIDE VERTICAL
	202412	Presidential Walnut, Vinyl
	202412-2	Honeytone Teak, Vinyl
	202412-22	Painted, Specify Color
	202412-19	Galvanized
7	340058	Trim, Inside Horizontal
8		PANEL, DELIVERY TRAY
	201356	Presidential Walnut, Vinyl
	201356-31	Regency Walnut, Vinyl
	201356-3	Honeytone Teak, Vinyl
	201356-6	Painted, Specify Color
9	340055-3	Trim, Inside Horizontal
10		PANEL, LOWER HORIZONTAL
	200296-36	Presidential Walnut, Vinyl
	200296-39	Honeytone Teak, Vinyl
	200296-42	Painted, Specify Color
11	16000018	Door Only, Specify Color

Item No.	Part No.	Description
1	660231-3	Trim, Horizontal w/Black Stripe
2		PANEL, COVERPLATE 3'
	201417	Presidential Walnut, Vinyl
	201417-5	Honeytone Teak, Vinyl
	201417-6	Painted, Specify Color
	201417-23	Black Hide, Vinyl
3	340057	Trim, Outside Vertical (right or left)
4	340058-4	Trim, Inside Vertical (right or left)
5		PANEL, LEFT SIDE VERTICAL
	202059-4	Presidential Walnut, Vinyl
	202059-17	Honeytone Teak, Vinyl
	202059-6	Painted, Specify Color
	202059-5	Port Au Prince, Vinyl
	202059-42	Black Hide
6		PANEL, RIGHT SIDE VERTICAL
	12000042-01	Presidential Walnut, Vinyl
	12000042-03	Honeytone Teak, Vinyl
	202412-23	Painted, Specify Color
	12000042-18	Port Au Prince, Vinyl
	12000042-11	Black Hide
	202412-13	Dove Gray
7	340058	Trim Inside Horizontal
8		PANEL, DELIVERY TRAY
	201356	Presidential Walnut, Vinyl
	201356-3	Honeytone Teak, Vinyl
	201356-6	Painted, Specify Color
	201356-1	Black Hide, Vinyl
9		PANEL, LOWER HORIZONTAL
	200296-36	Presidential Walnut, Vinyl
	200296-39	Honeytone Teak, Vinyl
	200296-42	Painted, Specify Color
	200296-58	Black Hide, Vinyl
10	16000018	Door Only, Specify Color

PUSH
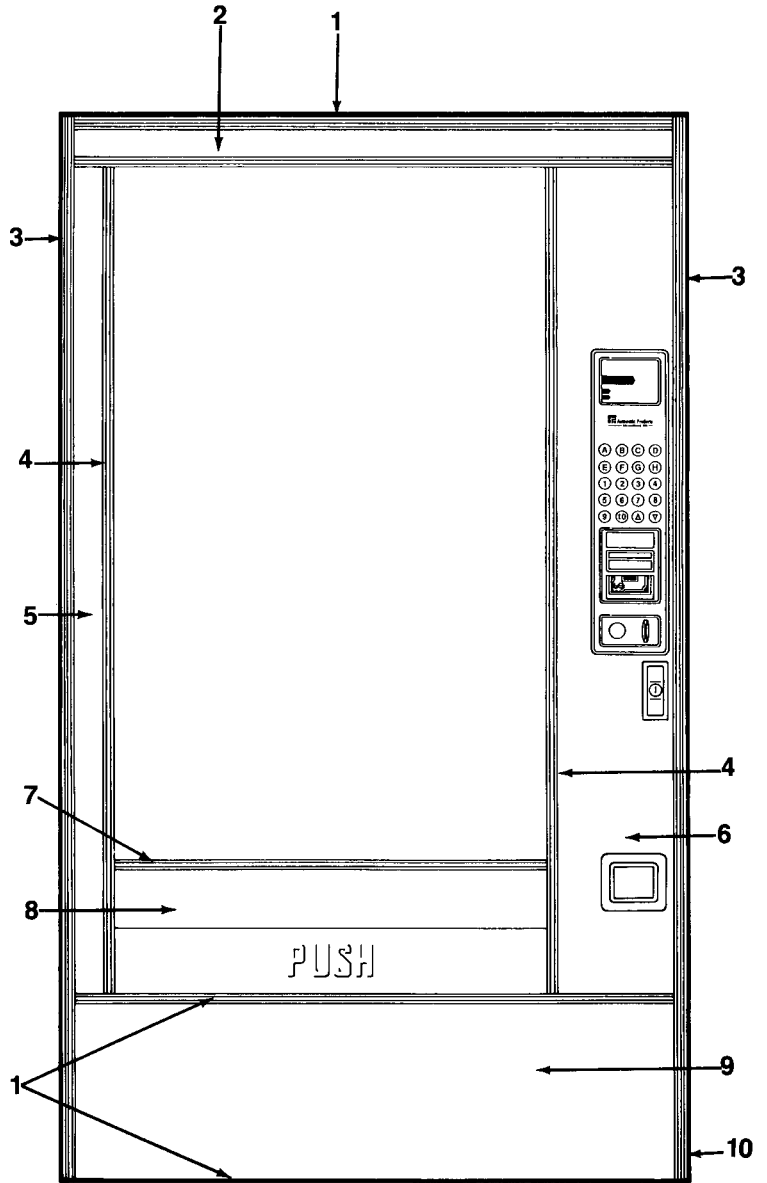
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Item No.	Part No.	Description
1	340042-8	Trim, Top, For use w/Vinyl Insert
2		VINYL INSERT, TOP ONLY
	200526-4	Honeytone Teak, Vinyl
3	340057	Trim, Outside Vertical (right or left)
4	340058-7	Trim, Inside Vertical (right or left)
5		PANEL, LEFT SIDE, VERTICAL
	202059-56	Gray, Vinyl
6		PANEL, RIGHT SIDE VERTICAL
	12000042-07	Gray, Vinyl
7	340058	Trim, Inside Vertical
8		PANEL, DELIVERY TRAY
	201356-38	Gray, Vinyl
9	340055-3	Trim, Inside Horizontal
10		PANEL, LOWER HORIZONTAL
	201692-3	Honeytone Teak, Vinyl
11	16000018	Door Only, Specify Color
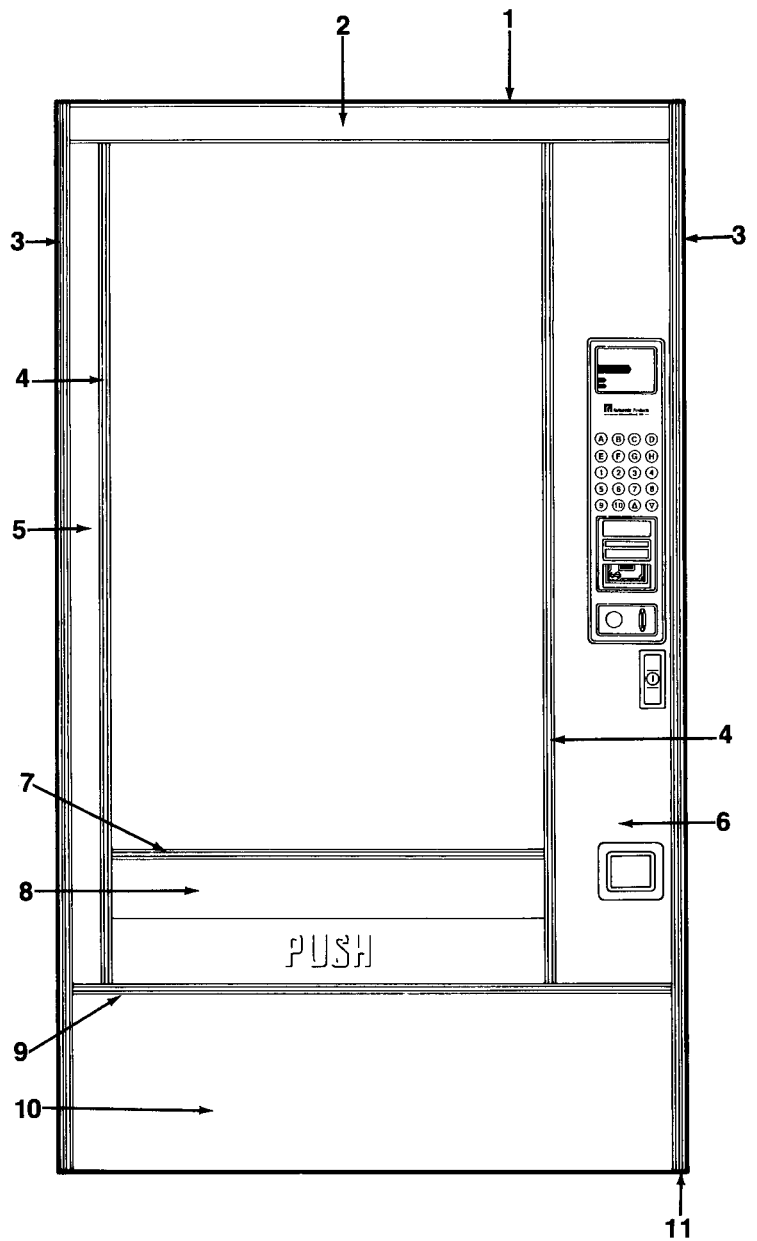
Item No.	Part No.	Description
1	340042-8	Trim, Top, For use w/Vinyl Insert
2	201260	Vinyl Insert, Top Trim, Vinyl
3	340057-2	Trim, Outside Vertical (right or left)
4	340058-7	Trim, Inside Vertical (right or left)
5		PANEL, LEFT SIDE, VERTICAL
	202059-52	Sterling Royce
6		PANEL, RIGHT SIDE VERTICAL
	202412-16	Sterling Royce
7	340058	Trim, Inside Vertical
8		PANEL, DELIVERY TRAY
	201356-34	Sterling Royce
9	340055-3	Trim, inside Horizontal
10		PANEL, LOWER HORIZONTAL
	200296-54	Sterling Royce
11	16000018	Door Only, Specify Color
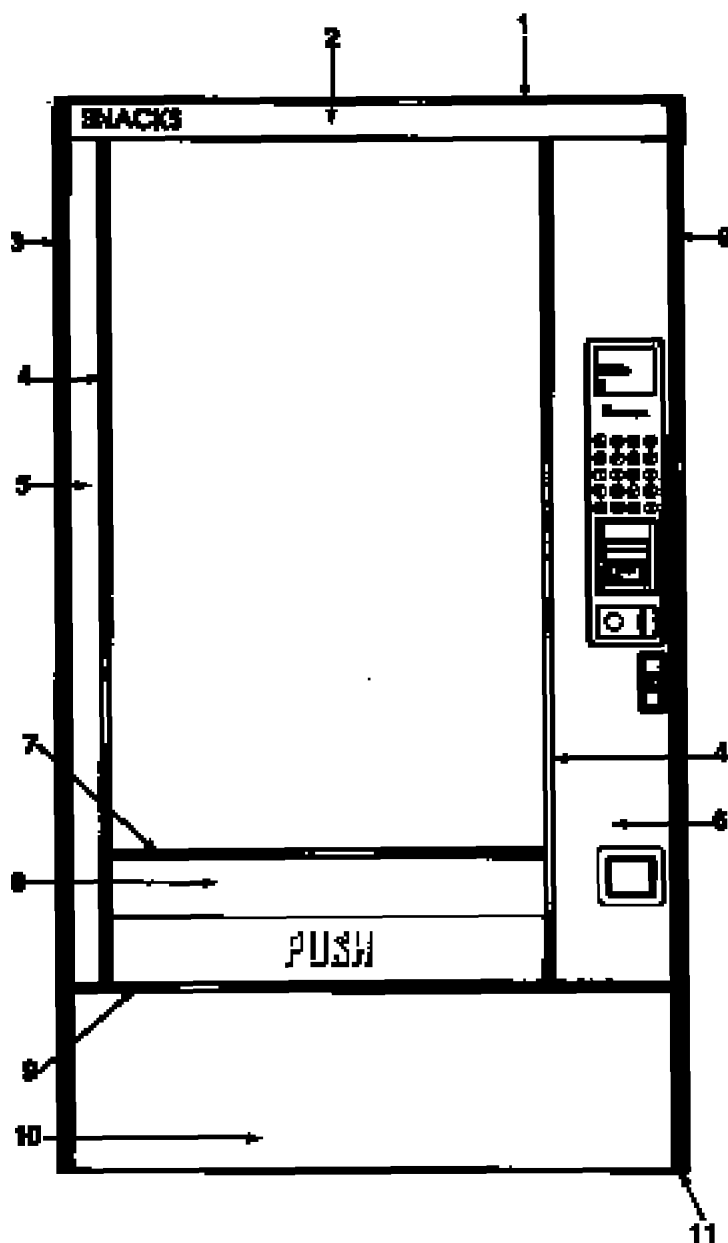
tron II style

Item No.	Part No.	Description
1	340055-9	Trim, Horizontal, Top & Bottom, Black
2	201417-2	Cover Up Plate, Galvanized
	440312-1	Top Insert, Black
3	660231-3	Trim, Horizontal
4	340057-2	Trim, Outside Vertical (right or left), Black
5	340058-8	Trim, Inside Vertical (right or left)
6	202059-54	L S V P Sterling Royce
7	340058	Trim, Horizontal, Window
8	201356-34	Panel, Delivery Tray
9	200296-54	Panel, Lower Horizontal, Sterling Royce
10	12000042-17	R S V P Sterling Royce
11	16000018	Door Only, Specify Color
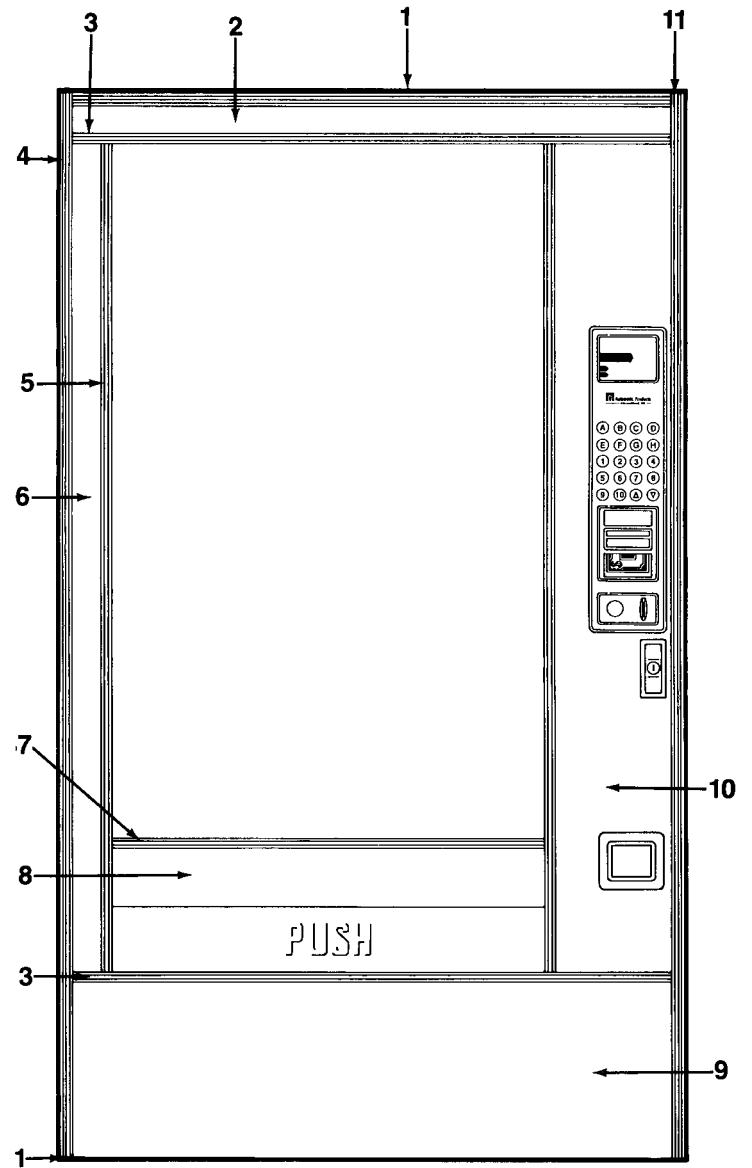
Item No.	Part No.	Description
1	340042-8	Trim, Top, For use w/Vinyl Insert
2	200526-10	Panel, Top Trim, Black Hide
3	340057	Trim, Outside Vertical, Silver
4	202059-42	Panel, Left Side, Vertical, Black Hide
5	340058-6	Trim, Inside Vertical, Black
6	340058-5	Trim, Horizontal Window, Black
7	201356-34	Panel, Delivery Tray, Sterling Royce
8	340055-9	Trim, Horizontal, Black
9	201692-46	Panel, Lower Horizontal, Black Hide w/Stripe
	200296-58	Panel, Lower Horizontal, Black Hide wo/Stripe
	201678	Bottom, Vinyl Door Edging (not shown)
	420186	Screw, HWH, Drill Point, Black (6-20 1/2) Qty. 5
10	12000042-11	Panel, Right Side Vertical, Black Hide
11	16000018	Door Only, Specify Color
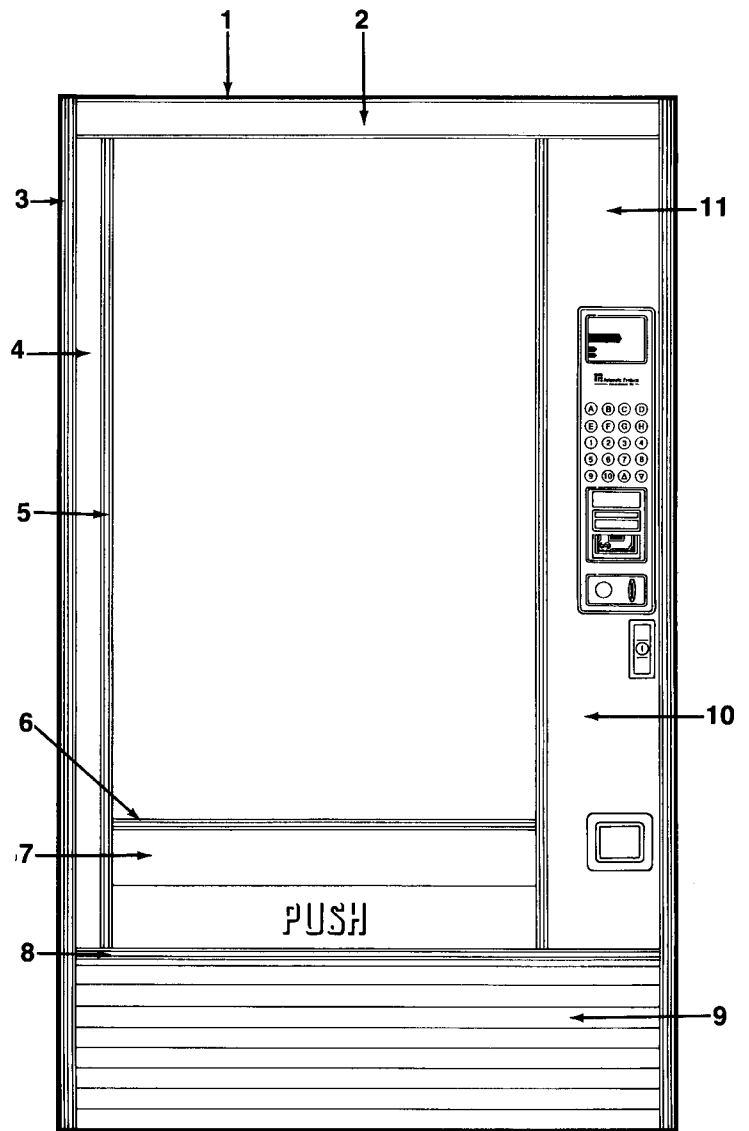
vantage style

Item No.	Part No.	Description
1	340044-9	Trim, Top, Vantage
2	201690-2	Trim, Top, Insert, Black Hide
3	340057-2	Trim, Outside Vertical (right or left), Black
4	202059-52	Panel, Left Side Vertical, Sterling Royce
	202059-50	Panel, Left Side Vertical, Dove Gray
	202059-8	Panel, Left Side Vertical, Painted
5	340058-46	Trim, Vertical, Window (right or left), Black
6	340058-5	Trim, Horizontal, Window, Black
7	201356-1	Panel, Delivery Tray, Black Hide
8	201678	Door Edging, Bottom
9	315-6R6	Screw, Pan Head, Type 2, Drill Point (6-20)
10	201692-1	Panel, Lower Horizontal, Black Hide
11	12000042-15	Panel, Right Side Vertical, Sterling Royce
	12000042-14	Panel, Right Side Vertical, Dove Gray
	12000042-21	Panel, Right Side Vertical, Painted
12	16000018	Door Only, Specify Color
13	201678-6	Top, Trim, LS Vinyl Edge
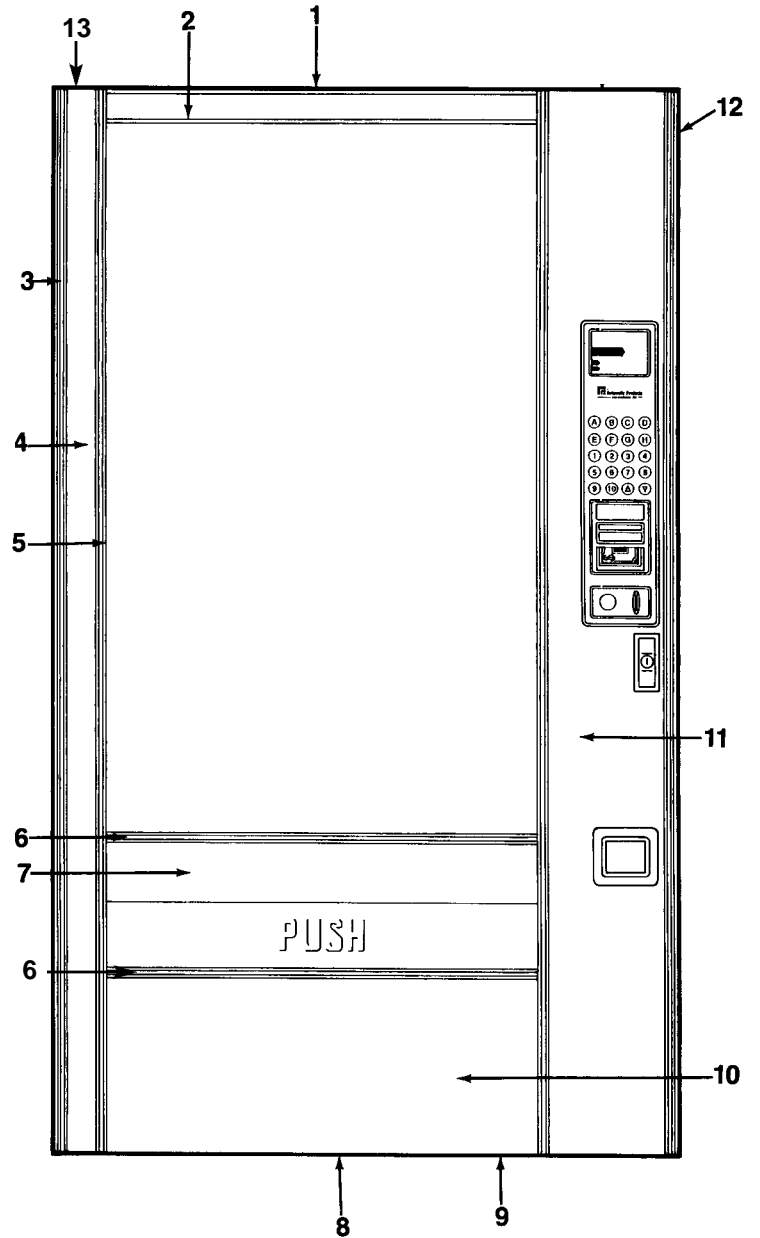
PUSH

PUSH MOUNT CABLE TIE 380291	CABLE CLAMP ADHESIVE 3/4 - 420096 1/2 - 420096-1	WIRE CLAMP 420051
PLUG - 12 PIN 380283	SOCKET - 12 PIN 380280	MOLEX CRIMP TERMINAL 380234
SOCKET 15 CIRCUIT 380276	MOUNTING TYPE CABLE TIE 380078	2 PIN INTERNATIONAL MOLEX 380281
2 PIN INTERNATIONAL MOLEX RECEPTACLE 380290	4 PIN INTERNATIONAL MOLEX PLUG 380296 3 PIN INTERNATIONAL MOLEX PLUG FREE HANGING - 380285 PANEL MOUNT - 380285-1	4 PIN INTERNATIONAL MOLEX RECEP 380293 3 PIN INTERNATIONAL MOLEX RECEPTACLE 380286
9 PIN INTERNATIONAL MOLEX PLUG 380282	MALE MOLEX TERMINAL SMALL .093 - 380005 LARGE .062 - 380130	FEMALE MOLEX TERMINAL SMALL .093 - 380004 LARGE .062 - 380129
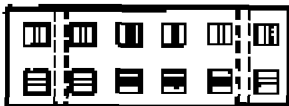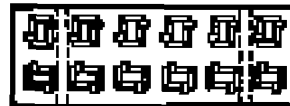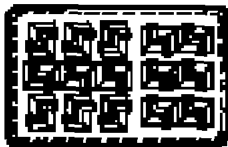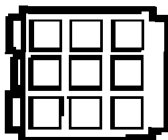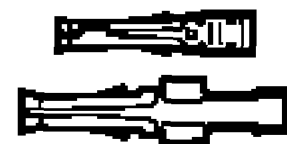
**11
See Page 59**
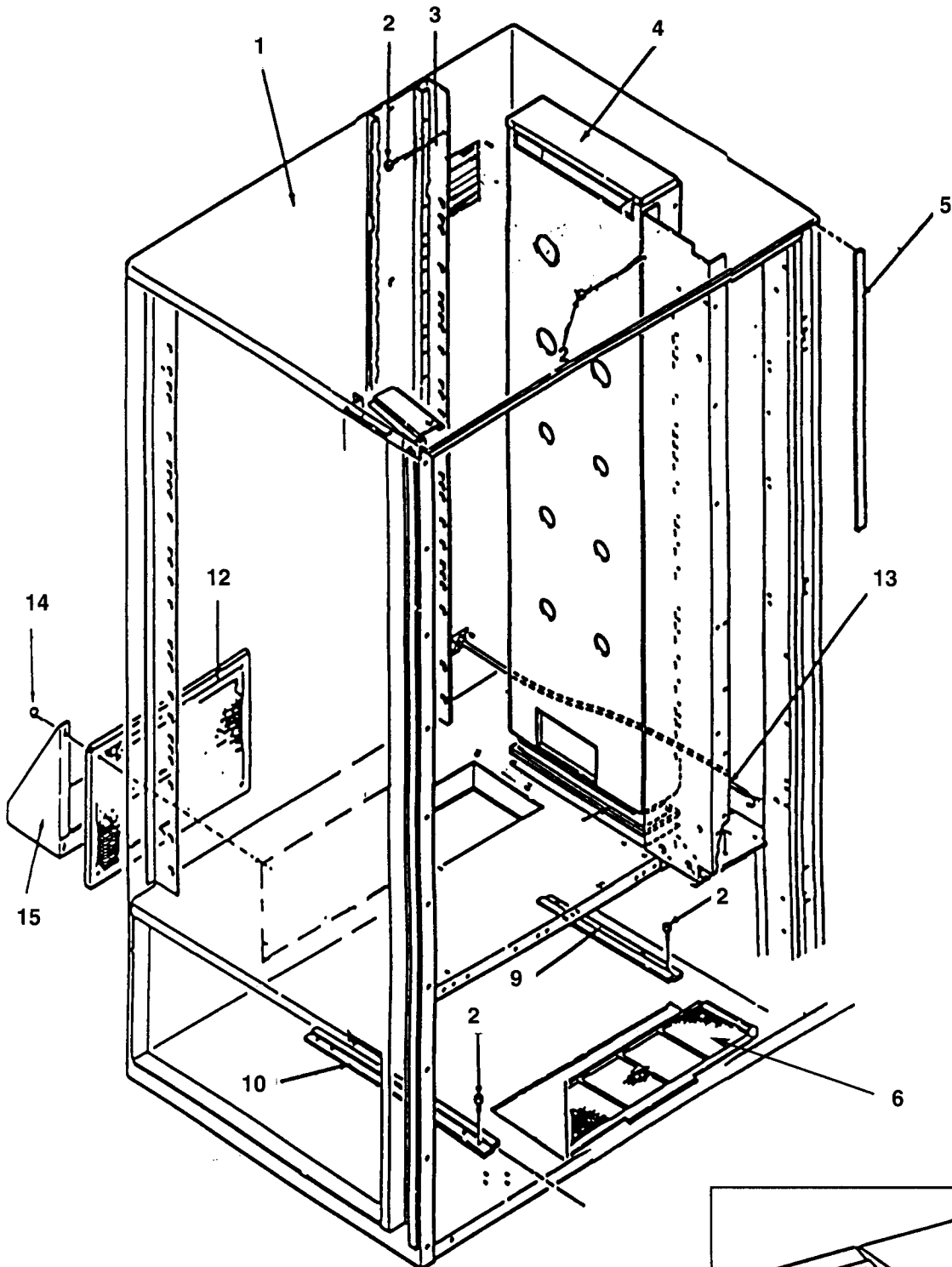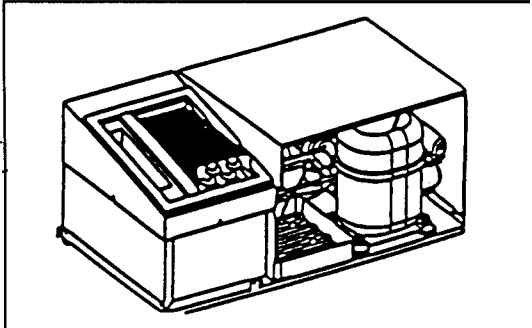
Item No.	Part No.	Description
1	750101-23	Assembly Complete. Cabinet & Insulation Only.
2	276-8R6	Screw, Pan Hd.Phillips (8-32 x 3/8).
4	12000087	Air Duct.
5	460468	Door Gasket.Order by Inches (Qty. 80).
6	660692	Front Vent Screen Weld Assembly
9	202145	Right Retainer.
10	202144	Left Retainer.
11	16600041	Refrigeration Assembly Complete 120V, See Page 59 for Itemized Parts.
	16600041-01	**Refrigeration Assembly Complete 230V. See Page 59 for Itemized Parts**
12	16600047	Back Vent Screen Assembly
13		See Page 19 for List of Line cords
14	276-8R8	Screw, Pan Head, (8/32 x 1/2)
15	202471	Deflector
16	12000003	Bin Close Off Plate (Not Shown)
		INSULATION
	12200001	Right Rear

Item No.	Part No.	Description
	12200002	Right Shelf Support
	12200004	Back Left
	12200008	Shelf Rear
	12200009	Back
	12200010	Piviot Side
	12200012	Left Shelf Support
	12200017	Foam Insulation, Shelf
	12200024	Foam Insulation, Front
	12200025	Foam Insulation, Rear
	12200030	Shelf Front
	12200032	Foam Insulation, Rear Shelf Front Piviot Side
	12200034	Top
	12200035	Lock Side
	12200036	Top Lock Side Insulation Shelf
	12200037	Insulation Back
	12200038	Insulation Cabinet Top
	12200039	Insulation Top Front
	12200053	Right Filler Plate
	420385-1	Insulation Piviot Side Chanel Top, 1/2"
	420386-1	Insulation Piviot Side Chanel Front 3/4"
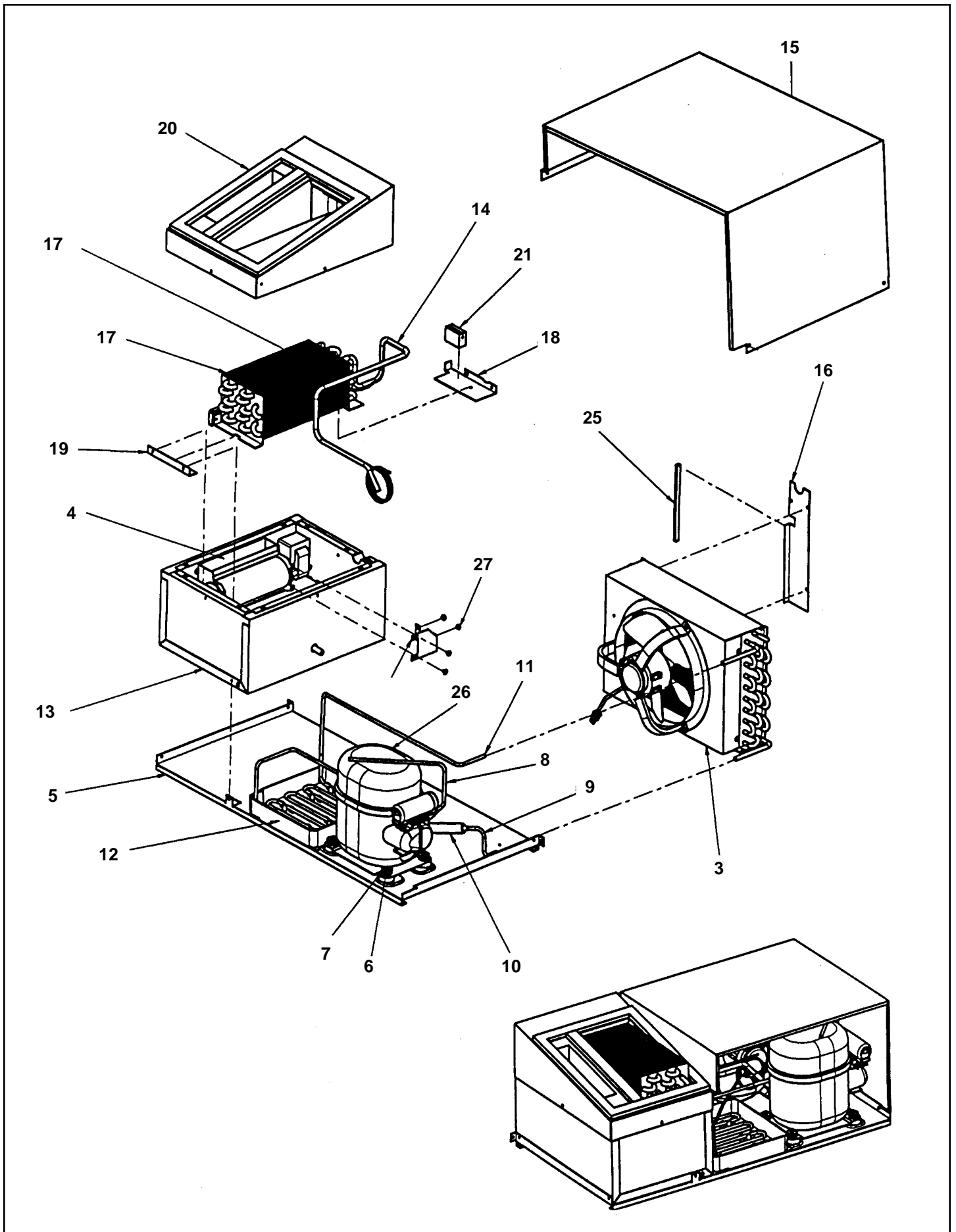
Item No.	Part No.	Description		Item No.	Part No.	Description
	16600041	Refrigeration Assembly Complete 117V, 60 Hz				
	16600041-01	**Refrigeration Assembly Complete 230V, 50 Hz**				
	16600108	**Refrigeration Assembly Complete 220V, 60 Hz (Brazil).**				
1	210-8R6	#8 X 3/8 Screw (all screws)				
2	360270	Compressor 117V, 60 Hz				
	360271	**Compressor 230V, 50 Hz**				
	16700004	**Compressor 220V, 60 Hz**				
3	660720	Condenser Complete Domestic				
	660720-1	**Condenser Complete 220-240 V**				
4	1670003	Evaporator Fan Motor 117V				
	1670003-01	**Evaporator Fan Motor 220-240V**				
5	12000063	Refrigeration Mounting Plate				
6	300225	Compressor Mounting Pin				
7	420426	Compressor Mounting Clip				
8	420425	Tube - Process 117V, 60 Hz				
	420425-1	**Tube Process - 230V,50 Hz**				
	12100006	**Tube Process - 220V, 60 Hz**				
9	420028	Tube - Condenser Outlet				
10	420027	Drier				
11	12100001	Tube - Compressor Discharge 117V,60Hz				
	12100001-01	**Tube - Compressor Discharge 230V, 50 Hz.**				
	12100007	**Tube - Compressor Discharge 220V, 60 Hz.**				
12	440459	Evaporator Pan				
13	16400002	Evaporator Housing Assembly				
14	12100004	Capillary / Suction Line				
15	12000065	Cover Condensing Unit				
16	12000064	Bracket - Condensing Unit Cover				
17	16600062	Evaporator /Bracket Assembly				
18	12000070	Evaporator Bracket Rear				
19	12000071	Evaporator Bracket Front				
20	16600040	Evaporator Top Assembly				
21	13300005	Evaporator Air Block				
25	1300001	Gasket, 1/4 X 5/16				
26	202893	Evaporator Motor Bracket				
27	404 - 08	Hex Nut 8 - 32				
		Not Shown				
	360270-2	Start Capacitor, 117V, 60 Hz				
	360271-2	**Start Capacitor, 230V, 50 Hz**				
	16700004-08	**Start Capacitor, 220V, 60 Hz**				
	360270-8	Overload Protector, 117V, 60 Hz				
	360271-8	**Overload Protector, 230V, 50 Hz**				
	16700004-01	**Overload Protector, 220V, 60 Hz**				
	360270-7	Retainer Clip (overload)				
	368270-11	Start Relay, 117V 60 Hz				
	360271-11	**Start Relay, 230V 50 Hz**				
	16700004-10	**Start Relay, 220V, 60 Hz**				
	360270-14	Electrical Cover				
	360270-9	Clip, Electrical cover				
	360270-4	Compressor Clip				

connector pinout

COINCO LCM CONTROLLER

P1 POWER IN

1	24 VAC HOT
2	GROUND
3	24 VAC NEUTRAL

P2 SELECTION SWITCHES

KEY	PIN #1	PIN #2
A	1	9
B	1	8
C	1	7
D	3	7
E	4	7
F	4	8
G	3	4
H	8	9
1	2	12
2	3	12
3	2	3
4	3	11
5	3	5
6	5	11
7	5	6
8	6	11
9	6	7
10	7	11
	7	6
	8	11

P3 COIN MECH.

1	TX +
2	TX −
3	RX −
4	GND −
5	RX +
6	24 VAC HOT
7	KEY
8	24 VAC RET
9	ME810D DETECT

P4 BILL VALIDATOR

1	RENA1
2	KEY
3	KEY
4	RENA2
5	KEY
6	GND
7	INT
8	PARSER
9	SENDESC
10	DATA
11	$1 CREDIT
12	$5 CREDIT
13	+5 VDC
14	ESC/DESC
15	$1 & $5 ENABLE
16	HOT
17	RET

P5 US COIN MECH. AND L+

1	GND
2	KEY
3	24 VDC HOT NF
4	KEY
5	DATA
6	INT
7	ACCEPT
8	MECH RESET
9	SEND
10	+5 VDC
11	GND
12	MIDDLETUBE
13	RIGHTTUBE
14	LEFTTUBE
15	FOURTHTUBE

P6 MOTOR DRIVE

1	ROW A
2	ROW B
3	ROW C
4	ROW D
5	ROW E
6	ROW F
7	ROW G
8	ROW H
9	KEY
10	COL 1
11	COL 2
12	COL 3
13	COL 4
14	COL 5
15	COL 6
16	COL 7
17	COL 8
18	COL 9
19	COL 10

LCM KEYPAD PINOUTS

Button	Common	Pin #1	Pin #
A	13	1	9
B	13	1	8
C	13	1	7
D	13	3	7
E	13	4	7
F	13	4	8
G	13	3	4
H	13	8	9
1	13	2	12
2	13	3	12
3	13	2	3
4	13	3	11
5	13	3	5
6	13	5	11
7	13	5	6
8	13	6	11
9	13	6	7
10	13	7	11
^	13	7	8
v	13	8	11

Keypad operates with common (#13) plus 2 others.

P8 MULTI-DROP BUS (MDB)

1	24 VUN
2	KEY
3	GND
4	RXD
5	TXD
6	GND
7	NC

Problem	Cause	Remedy
No power	No lights	Check wall outlet for correct wiring, and line cord. See page 3.
	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 change returned	No voltage	Check voltages
	Defective power board	Replace power board
	Defective coin mechanism.	Replace coin mechanism.
	Jammed coins in tube	Remove coins
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 P1
	Belts run-bill goes half way but won't accept	Replace validator
Says make another selection	Motor ½ 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 */white wires LCM*

trouble shooting chart

Problem	Cause	Remedy
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	Gray or black bodied motors for LCM
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 close	No voltage	Check for correct voltages
	Defective door switch	Replace door switch
	Defective board	Replace board

The following table lists the Multi-Drop Bus errors that may be displayed in the Diagnostics Mode:

Multi-Drop Bus Error	Display
Invalid changer scale factor	"CscF"
Defective coin tube sensor	"tSnS"
Coin jam detected	"CJAM"
Coin tube jam detected	"tJAM"
Coin acceptance problem detected	"CnEr"
Acceptor unplugged	"AcEr"
Coin changer ROM checksum bad	"ChEr"
Invalid acceptor sacle factor	"bScF"
Defective bill sensor	"bSnS"
Bill jam detected	"bJAM"
Bill stacker is full	"stFL"
Bill cash box is out of position	"Cshb"
Bad bill motor detected	"bMtr"
Bill acceptor ROM checksum bad	"bLEr"
Invalid card reader scale factor	"rScF"
Card error detected	"CdEr"
Invalid card detected	"bCrd"
Card reader jam detected	"rJAM"
Communications error detected	"CoEr"
Card reader failure	"brdr"

notes

notes

CONTROL BOARD

P3 EXECUTIVE COIN MECH.

+5VDC(TX-)
TX-
RX-
GND
RX+
KEY
24VAC HOT
24VAC RET
ME 9100 DETECT

P5 U.S. COIN MECH. AND L+

GND
KEY
24VDC HOT NF
KEY
DATA
INT
ACCEPT
MECH
RESET
SEND
+5VDC
GND
MIDDLE TUBE
RIGHT TUBE
LEFT TUBE
FOURTH TUBE

P1 POWER IN
24VAC NEUT
GND
24VAC HOT

RET
HOT
$1 AND $5 ENABLE
ESC/NOESC
+5 VDC
$5 CREDIT
$1 CREDIT
DATA
SEND/ESC
PAR/SER
INT
GND
KEY
RENA2
KEY
KEY
RENA1

VALIDATOR 24 VOLTS

P4

P6 VEND MOTORS

COL 10
COL 9
COL 8
COL 7
COL 6
COL 5
COL 4
COL 3
COL 2
COL 1
KEY
ROW I
ROW G
ROW F
ROW E
ROW D
ROW C
ROW B
ROW A

P8 MULTI-DROP BUS

+34VDC
KEY
+VDC RET
TXD
GND
NC

MDB INTERCONNECT HARNESS

P2 SELECTION SWITCH

KEY	PIN 1	PIN 2
A	1	9
B	1	8
C	1	7
D	1	6
E	3	9
F	3	8
G	3	7
H	3	6
1	2	9
2	2	12
3	2	3
4	2	11
5	3	5
6	5	6
7	5	7
8	5	11
9	6	7
0	7	8
△	7	9
▽	8	11

PIN 1 AND PIN 2 ARE SHORTED TO COMMON PIN 13 WHEN KEY IS PRESSED.

TO CONTROL BOARD P5

TO CONTROL BOARD P1

"A" COMMON ON ALL MOTORS (LARGE TERM.)

ALL SHELF SOCKETS WIRED THE SAME EXCEPT PIN NO. 12

SHELF NO.	WIRE ON PIN NO. 12
NO. 1	A
NO. 2	B
NO. 3	C
NO. 4	D
NO. 5	E
NO. 6	F
NO. 7	G
NO. 8	H

SHELF PLUG

SHELF SOCKET NO. 1
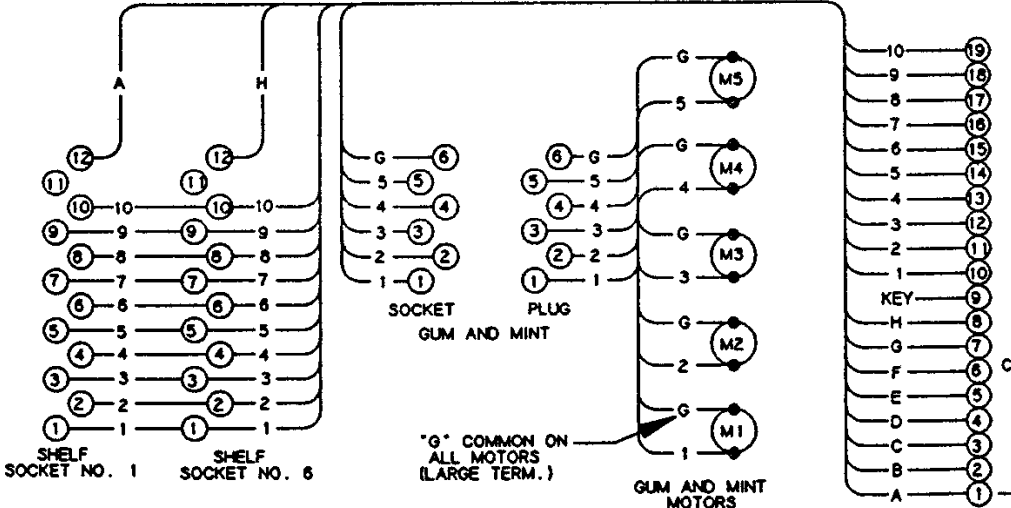
SHELF SOCKET NO. 6

ALL SHELF SOCKETS ARE THE SAME 12 CONTACT. SOME HAVE 4, 5, 8, OR 10 MOTORS.

SHELF VEND MOTORS

SOCKET   PLUG
GUM AND MINT

"G" COMMON ON ALL MOTORS (LARGE TERM.)

GUM AND MINT MOTORS

ALL GUM AND MINT PLUGS ARE 6 CONTACT. UNIT HAS 4 OR 5 MOTORS.

5V dc

CHANGER
SOCKET

24V dc

DOTTED LINE
INDICATES
CONTROL BOX

120 V

BLACK

WHITE
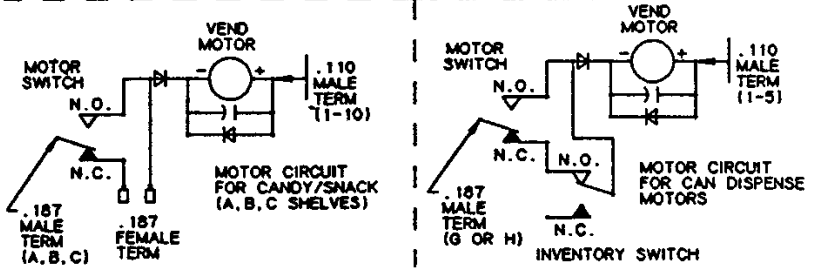
FAN

M

GRND.

WHT   BLK

MAIN
SWITCH

LINE
FILTER

117 V TO
TRANSFORMER

MOV

L
O
A
D

L
I
N
E

BLK

GRN/W YEL

WHT

WHT

FAN
HARNESS
CORD

1
2
3

3 AMP.
BRAKER

GRN/W YEL

LIGHT
CORD
HARNESS

WHT

GRN/W YEL

BLK

BLK

TO
CONTROL
BOARD
P6

STARTER

S

LIGHT

BALLAST AND
FILTER ASSY.

LIGHT
FILTER

BALLAST

L
O
A
D

L
I
N
E

DOOR GRND

Automatic Products
international, ltd.

LCM 1, 2, 3 MACHINES

48009803 4-11-00

U1 LM2574-ADJ 8 PIN DIP

+34VDC
GND
WHT

BLK
WHT
RED

5 VIN
ON/OFF
SIG GND
GND
OUTPUT
FEED BACK
NC
NC

R1 15K .25W
RED
BLK(LFT TERM)
RHEOSTAT R2 CTS450D103-6-NO
(RT TERM)

L1 330uH 1A

R3 1.8K .25W

C1 100uf 50V

D1 SB360 FAST RECOVERY

C2 100uf 50V LOW ESR

CONDENSING FAN
EVAPORATOR FAN

OVERLOAD

RELAY

CAPACITOR (OPTIONAL)

TEMP. SENSOR

BLK
WHT
WHT
WHT
BLK
BLK
GR W/YEL

REFRIGERATION ASSY.

DEFROST TIMER

BLACK
WHITE
GR W/YEL TRACER
TO COND UNIT
POWER IN

FAN HARNESS CORD (OPTIONAL)

GRN/W YELLOW
BLK
BLK
WHT
WHT

SWITCH

TO COOLING UNIT

GRN/W YELLOW

BLACK

LOAD FILTER LINE

WHT
BLK

BLK
WHT
GRN/W YEL
BLK

3 AMP BRAKER

BLK
BLK
WHT
WHT

120V TO TRANSFORMER

GRN/W YEL

JUNCTION BOX

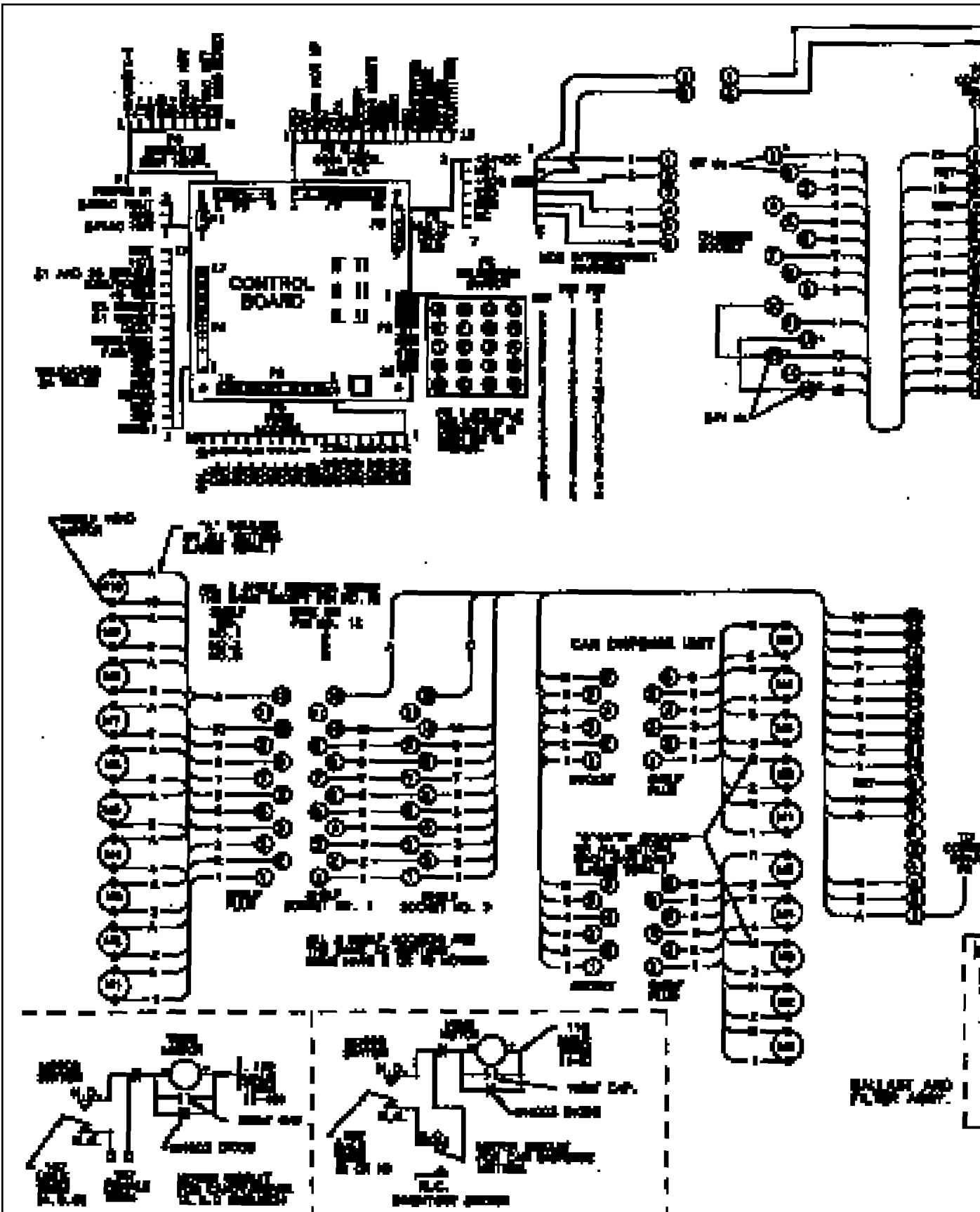24 V TO CONTROL BOARD (P1)

BLK
GRN
WHT

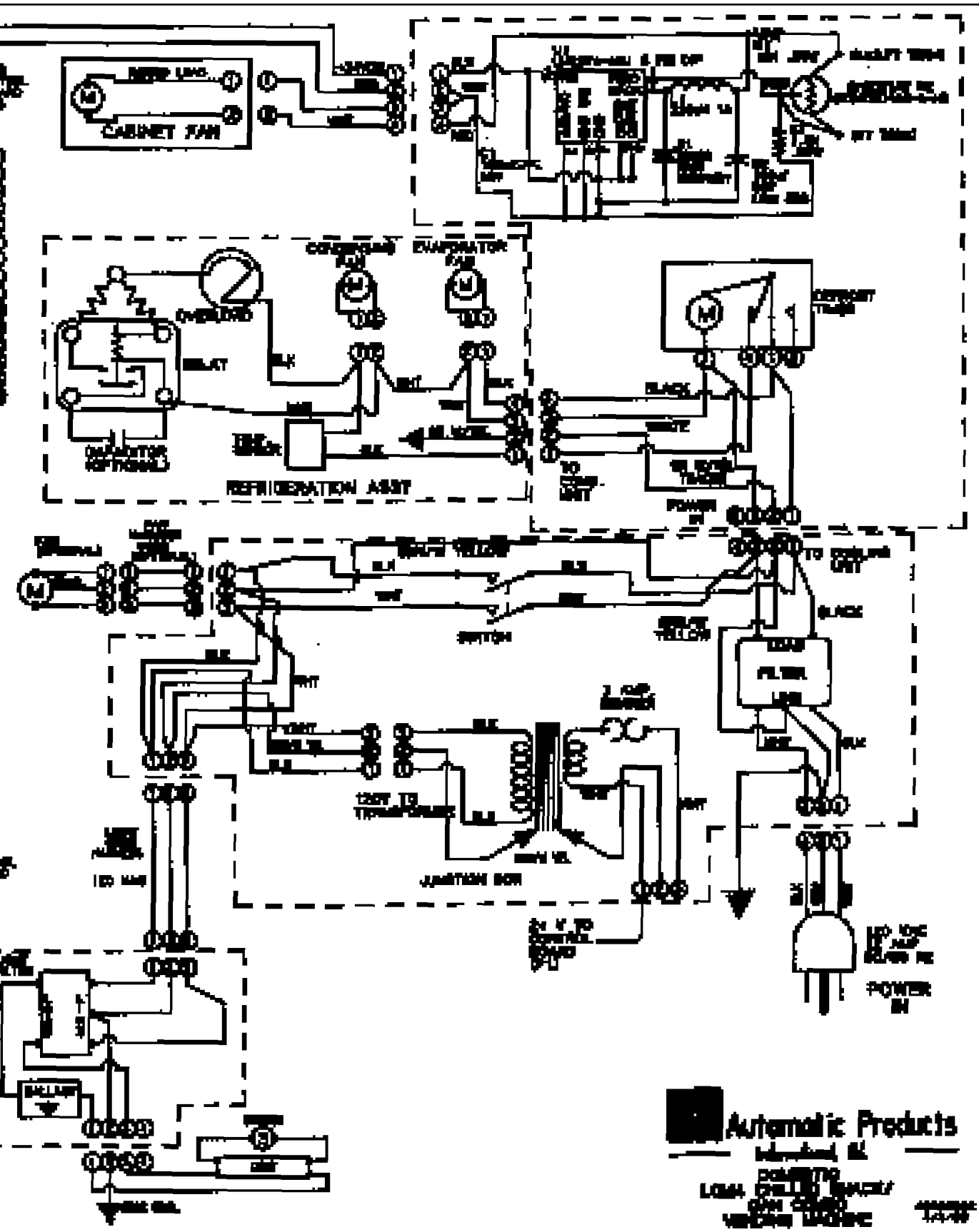120 VAC 12 AMP 50/60 Hz

POWER IN

STARTER
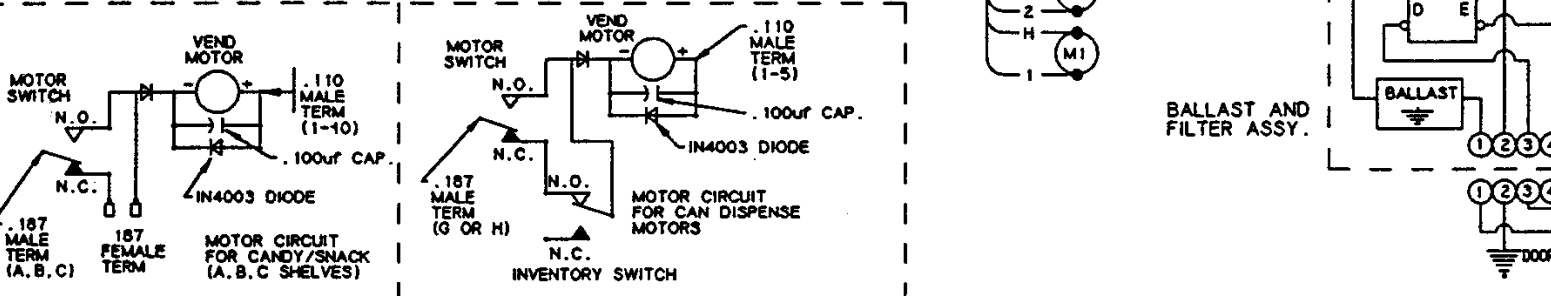S
LIGHT

DOOR GRND.

Automatic Products
international, ltd.

LCM4 SNACK/CAN COMBO VENDING MACHINE

480 10802
4/5/00

Automatic Products
International, Ltd.

CONTROL BOARD
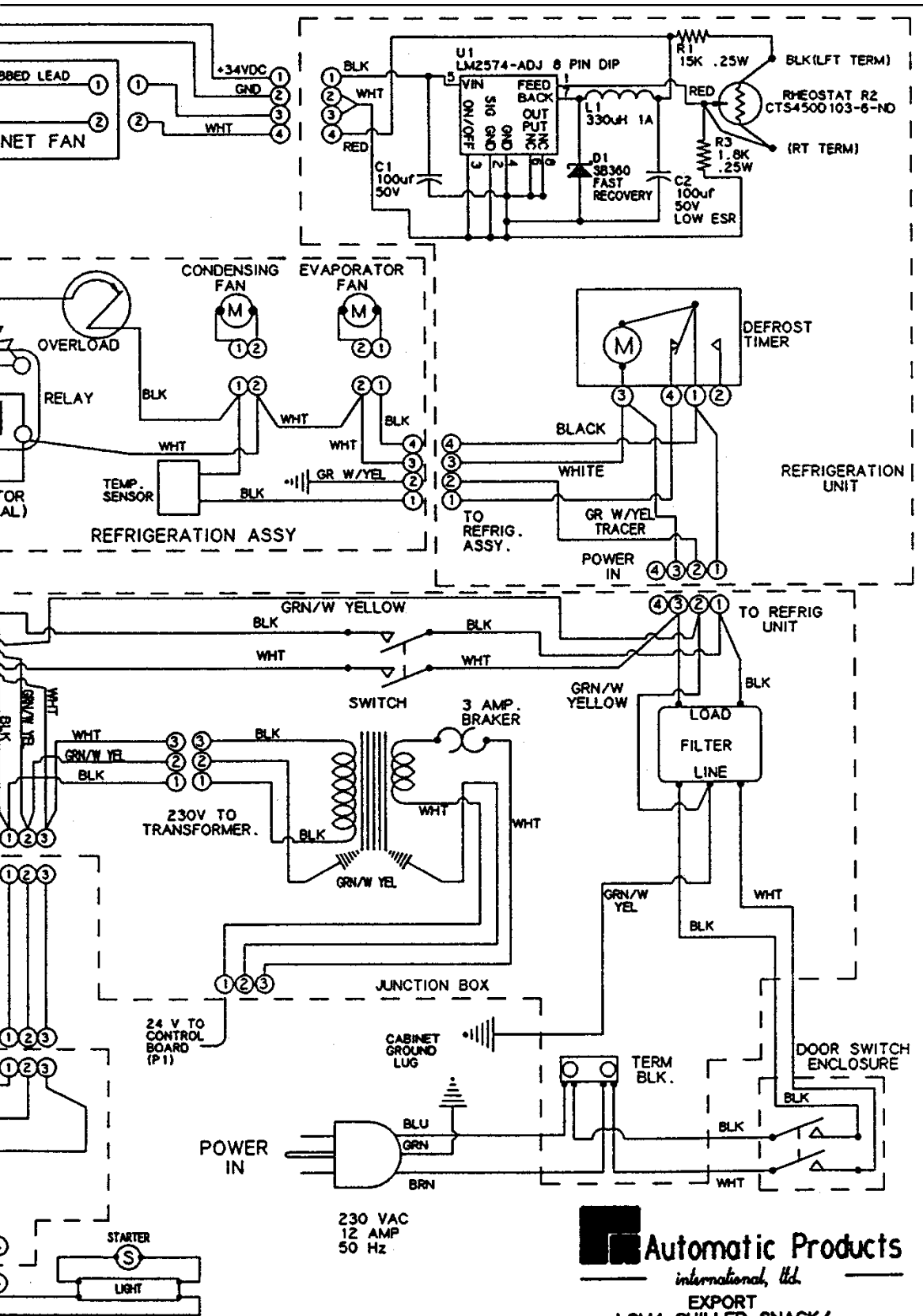
P1 POWER IN
24VAC NEUT
GND
24VAC HOT
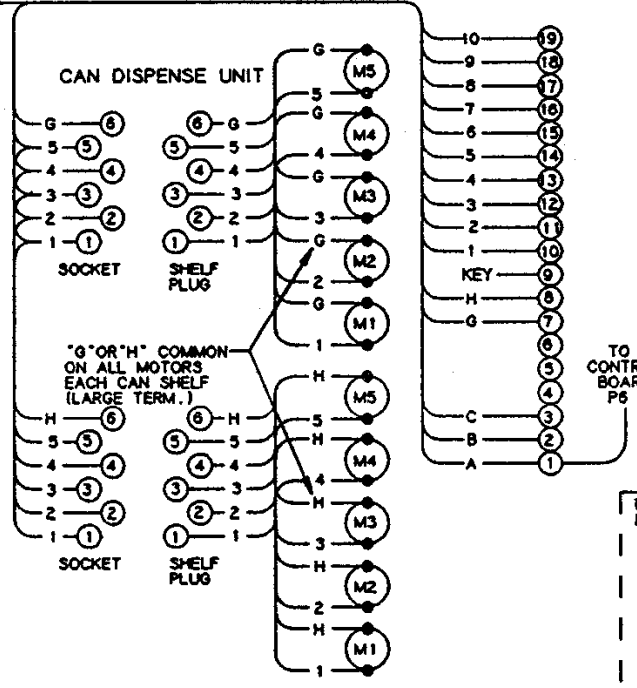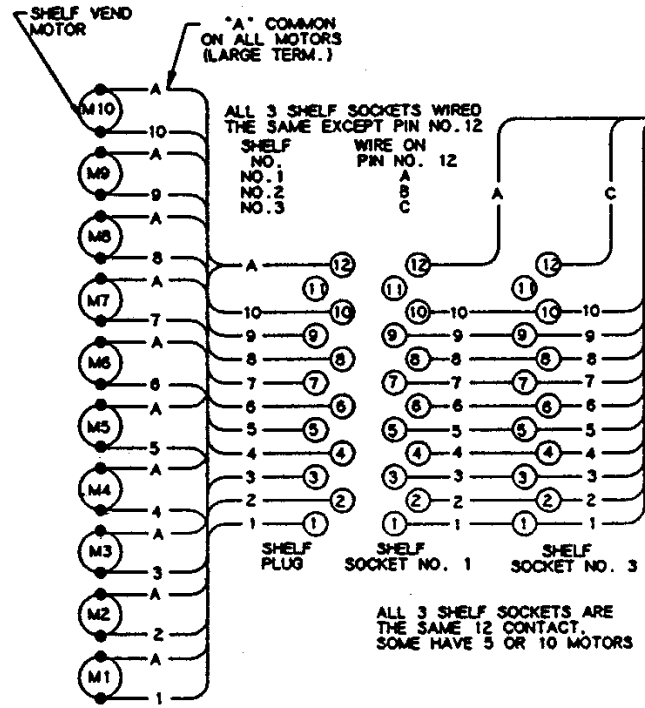
P3 EXECUTIVE COIN MECH.
+5VDC (TX-)
TX-
RX-
GND
RX+
24VAC HOT
KEY
24VAC RET
ME 9100 DETECT

P5 U.S. COIN MECH. AND L+
GND
KEY
24VDC HOT NF
KEY
DATA
ACCEPT
MECH RESET
SEND
+5VDC
GND
CENTER TUBE
RIGHT TUBE
LEFT TUBE
FOURTH TUBE

P8 MULTI-DROP BUS
+34VDC
KEY
+VDC RET
TXD
GND
NC

RET
HOT
$1 AND $5 ENABLE
ESC/NOESC
+5 VDC
$5 CREDIT
$1 CREDIT
DATA
SEND/ESC
PAR/SER
INT
GND
KEY
RENA2
KEY
KEY
RENA1

VALIDATOR 24 VOLTS

P4

P6 VEND MOTORS
COL 10
COL 9
COL 8
COL 7
COL 6
COL 5
COL 4
COL 3
COL 2
COL 1
KEY
ROW H
ROW G
ROW F
ROW E
ROW D
ROW C
ROW B
ROW A

P2 SELECTION SWITCH

KEY PIN 1 PIN 2
A B C D
E F G H
1 2 3 4
5 6 7 8
9 0 △ ▽

PIN 1 AND PIN 2 ARE SHORTED TO COMMON PIN 13 WHEN KEY IS PRESSED.

MDB INTERCONNECT HARNESS

CHANGER SOCKET

5V dc
24V dc

TO CONTROL BOARD P5

KEY
KEY

TO CABINET

CAPACITOR (OPTIONAL)

SHELF VEND MOTOR

"A" COMMON ON ALL MOTORS (LARGE TERM.)

M10
M9
M8
M7
M6
M5
M4
M3
M2
M1

ALL 3 SHELF SOCKETS WIRED THE SAME EXCEPT PIN NO.12
SHELF NO.   WIRE ON PIN NO.12
NO.1   A
NO.2   B
NO.3   C

SHELF PLUG

SHELF SOCKET NO.1

SHELF SOCKET NO.3

ALL 3 SHELF SOCKETS ARE THE SAME 12 CONTACT. SOME HAVE 5 OR 10 MOTORS.

CAN DISPENSE UNIT

SOCKET   SHELF PLUG

M5 M4 M3 M2 M1

"G" OR "H" COMMON ON ALL MOTORS EACH CAN SHELF (LARGE TERM.)

M5 M4 M3 M2 M1

SOCKET   SHELF PLUG

TO CONTROL BOARD P6

KEY

LIGHT CORD HARNESS

LIGHT FILTER
LOAD
LINE
BALLAST
BALLAST AND FILTER ASSY.

MOTOR SWITCH
N.O.
N.C.
VEND MOTOR
.110 MALE TERM (1-10)
.100uf CAP.
IN4003 DIODE
.187 MALE TERM (A,B,C)
.187 FEMALE TERM
MOTOR CIRCUIT FOR CANDY/SNACK (A,B,C SHELVES)

MOTOR SWITCH
N.O.
N.C.
VEND MOTOR
.110 MALE TERM (1-5)
.100uf CAP.
IN4003 DIODE
.187 MALE TERM (G OR H)
N.O.
N.C.
MOTOR CIRCUIT FOR CAN DISPENSE MOTORS
INVENTORY SWITCH

CONTROL
BOARD

CONDENSING
FAN

EVAPORATOR
FAN

M
1 2

M
2 1

TEMP
PROBE

3

4

DEFROST
TIMER

M

3 4 1 2

OVERLOAD

RELAY

BLK

1 2

WHT

2 1

BLK

CAPACITOR
(OPTIONAL)

WHT

WHT

BLK

4
3
2
1

GR W/YEL

REFRIGERATION ASSY.

GRN/W YEL

4 BLK
3 WHT
2
1

WHT

BLK

SWITCH

BLK

BLK

1
2
3

BLK

WHT

BLK

BLK

WHT

GRN/W YEL

WHT

WHT

BLK

MOV

LINE
FILTER

N

E

L

O
A
D

GRN/W YEL

BLK

220/240 TO
TRANSFORMER

BLK

WHT

LOAD

FILTER

LINE

POWER
IN

BLK

WHT

1 2 3

GRN/W YEL

1

1

GRN/W YEL

1 2 3

JUNCTION BOX

LIGHT
CORD
HARNESS

1 2 3

1 2 3

WHT

WHT

BLK

GRN/W
YEL

1 2 3

24 V TO
CONTROL
BOARD
(P1)

CABINET
GROUND
LUG

TERM
BLK.

DOOR SWITCH
ENCLOSURE

LIGHT
FILTER

L
O
A
D

L
I
N
E

1 2 3

POWER
IN

BRN

GRN

BLU

WHT
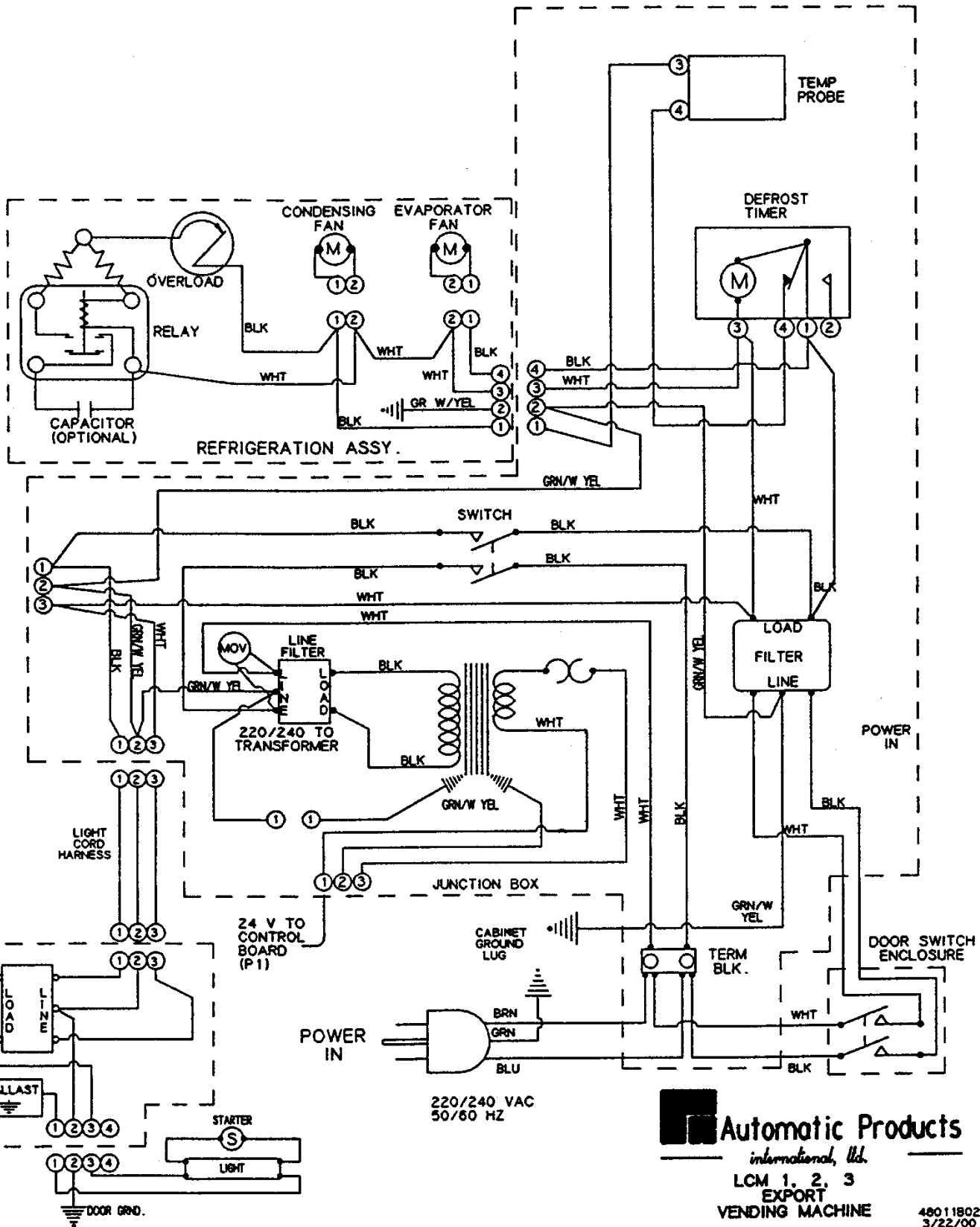
BLK

BALLAST

STARTER

S

220/240 VAC
50/60 HZ

Automatic Products
international, ltd.

LCM 1, 2, 3
EXPORT
VENDING MACHINE

1 2 3 4

1 2 3 4

LIGHT

DOOR GRND.

48011802
3/22/00