AUTOMATIC PRODUCTS international, Itd.

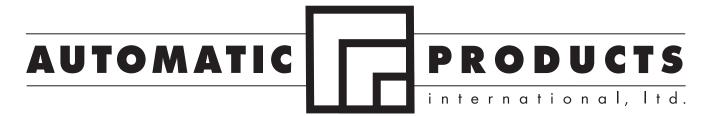
OPERATING SYSTEM

PARTS MANUAL

SERVICE MANUAL

MODEL 128-129 SNACK/CAN MERCHANDISER

PLEASE DO NOT REMOVE MANUAL FROM MACHINE



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

general index

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This document is available free of charge to our customers at www.automaticproducts.com

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DMPONENTS Power Supply Lighting System Main Product Shelves. Delivery Bin. Dex/UCS Printer Support Multi-Drop Bus Coin Mechs. Bill Validators. Debit Cards Vend Motors Cabinet and Shelf Harnesses Selection System MasterMenu Keypad. Logic Center Board Food Driver Board Food Driver Board	2.01 2.01 2.01 2.02 2.02 2.02 2.02 2.03 2.03 2.04 2.05 2.06
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To achieve the most trouble-free operation from your APi 120 Series Merchandiser, it is recommended that this service manual be thoroughly read and the instructions followed pertaining to installation, servicing and maintaining of the unit.

Should you have questions pertaining to this manual or the vendor, please contact your APi distributor or write directly to: Technical Service Dept.

Automatic Products int. ltd. 75 West Plato Blvd. St. Paul, MN. 55107 USA 612-224-4391 612-224-5559 (fax)

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包 EXPRESS WARRANTY Automatic Products international Itd. (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

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;

prepaid, and which, on APi's examination, shall, conclusively appear to have been defective. This warranty

- 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;
- extend to a Unit which has had the serial number removed, defaced or otherwise altered;
- extend to plastic or glass windows, lamps, fluorescent tubes and water contact parts;
- extend to any unit used outdoors;

does not:

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

API DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND AS TO THE UNIT AND ALL WARRANTIES OF ANY KIND AS TO ANY ACCESSORIES. THIS DISCLAIMER OF WARRANTIES INCLUDES ANY EXPRESS WARRANTIES OTHER THAN THE LIMITED WARRANTY PROVIDED ABOVE AS TO THE UNIT AND ALL IMPLIED WARRANTIES OF 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. No representative of 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.



75 West Plato Boulevard St. Paul, MN 55107

The APi 120 series features the MasterVend™ Control System and MasterMenu™ operating system which provide a user friendly menu to setup and configure the machine. The simple operation and built in flexibility of this system allows each user to customize the menu system to their preference. The system can be configured to display service and operational mode messages in any of six different languages and support up to 80 selections. Robust testing capability as well as extensive diagnostics and error reporting facilities are built in to provide ease of maintenance.

HOW TO USE THIS MANUAL

This manual is divided into four basic parts:

- 1. Unpacking and installation.
- 2. Components.
- 3. Quick Set up Guide.
- 4. Advanced Set up and Operating System.
- 5. Parts
- 6. Troubleshooting.

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.

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



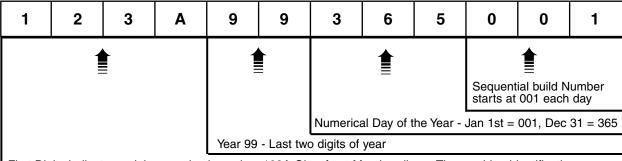
CAUTION: Certain procedures in both the operating section and the service section requires a qualified trained technician to perform the particular task at hand. These procedures will be marked with the exclamation symbol as it appears at left.

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:



First Digits indicate model, example shown is a 123A Glassfront Merchandiser - The machine identification may contain up to six characters dependent upon the model.

- 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

features of the APi 120 snack merchandiser ____

STANDARD FEATURES

- Up to 80 selections.
- Multi drop buss capabilities.
- Extensive diagnostics capabilities.
- Friendly text based interface.
- Configuration upload and download capabilities.
- User programmable function keys.
- Flexible spiral spacing for large products.
- Eight point star drive motor.
- Four security levels.
- Six languages.
- Machine reset capability.
- Real time clock.
- Personal computer interface.
- Printer interface.
- Chime.

PRICING

- Global pricing by machine or by shelf.
- Extensive discounting capabilities.
- Shutdown capabilities.
- Combo vends.
- 110 product codes.
- Programmable spiral count.
- Upload and download capabilities for pricing and mis.
- Programmable maximum payout.
- Extensive accountability, including all discounts and free vends.

SCROLLING DISPLAY

- User friendly scrolling display to help with the selection process and provide customer feedback.
- User programmable point of sale and
- operational messages.
- 20 character display.
- 3 scrolling options.

OPTIONS

- Point of sale window.
- Delivery bin cushion.
- Conveyor shelf
- Base kit.
- Lexan window.
- MasterMenu[™] online software.
- Transportable memory unit.

COIN MECH

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 VALIDATOR

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

SPECIFICATIONS

128 Refrigerated Cabinet Dimensions:

Height - 72 inches

Width - 33 1/2 inches

Depth - 27 5/8 inches

Floor space required - 6.4 SQ.. FT.

Shipping container size - 44.5 CU. FT.

Shipping weight - 500

129 Refrigerated Cabinet Dimensions:

Height - 72 inches

Width - 38 7/8 inches

Depth - 35 inches

Floor space required - 9.5 SQ.. FT.

Shipping container size - 72.5 CU. FT

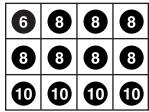
Shipping weight - 700 lbs.

NOISE LEVEL

Operates at less than 70 db (A).

Acceptable ambient operating temperature range. All equipment manufactured by Automatic Products intl ltd. 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. noncondensing). The machine 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 in direct sunlight.

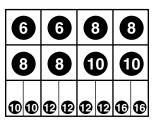
Unless otherwise specified machine will be shipped with spiral assortment shown below. Figures in circles represent capacities each spiral.



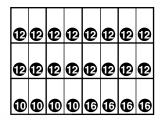
MODEL 128 - 312 Capacity as shown: 102 units

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Ð	®	®	®	P	®	®	P
0	o	o	1	©	©	®	®

MODEL 128 - 320 Capacity as shown: 230 units



MODEL 128 - 316 Capacity as shown: 164 units



MODEL 128 - 324 Capacity as shown: 296 units

PRODUCT SIZE CAPABILITY

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

Eight selection shelves for candy and other narrow items fit on all three positions.

Spiral of one item capacity can be freely interchanged with any other of the same diameter.

Boxed items may need slightly larger clearances to vend properly.

Movable spacers available to adjust widths to ranges shown in each selection.

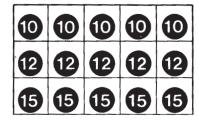
CAN COOL UNIT CAPACITIES

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

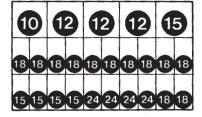
88 cans vendable with one can in each column by sold out switch (8 select).

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

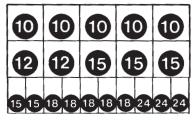
Unless otherwise specified machine will be shipped with spiral assortment shown below. Figures in circles represent capacities in each spiral.



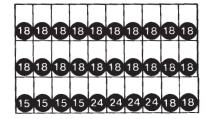
MODEL 129 -315 Capacity as shown: 185 units



MODEL 129 -325 Capacity as shown: 433 units



MODEL 129 -320 Capacity as shown: 311 units



MODEL 129 -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:
Тор	73/4"	21/2" to 51/4"	1" to 21/4"	6—Item Spiral 33/32"	6—Item Spiral 21/8"
Second	71/4"	21/2" to 51/4"	1" to 21/4"	7—Item Spiral 221/32"	7—Item Spiral 21/2"
Third	65/8"	21/2" to 51/4"	1" to 21/4"	10-Item Spiral 17/8"	9—Item Spiral 115/16"
				12-Item Spiral 19/16"	10—Item Spiral 1¾"
				15—Item Spiral 17/32"	12—Item Spiral 11/2"
		This d	locument is ava	18—Item Spiral 1"	15—Item Spiral 11/8"
				30-Item Spiral 1/2"	18—Item Spiral 15/16"
				40—Item Spiral 5/16"	24—Item Spiral 11/16"
				aucts.com	30—Item Spiral 1/2"
					40—Item Spiral 3/16"

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.

129 SPECIFICATIONS

HEIGHT: 72" WIDTH: 38%" DEPTH: 35"

FLOOR SPACE REQUIRED: 9.5 SQ. FT. SHIPPING CONTAINER SIZE: 72.5 CU. FT.

POWER REQUIREMENTS: 115 V., 60 HZ., 220/240 VAC, 50 HZ FOR EXPORT

OPERATING AMPERES: 8 REFRIGERANT: R-134A, 9.5 OZ.

TEST PRESSURE: HIGH SIDE: 440 P.S.I.

LOW SIDE: 162 P.S.I.

SHIPPING WEIGHT: 730 LBS.

The Snackshop 128/129 is assembled and packed so that a minimum amount of time is necessary for preparation to The Snackshop 128/129 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.

- 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.
- 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. On machines shipped with lock in place, the keys are taped inside the coin return.
- Remove Vendor with a Forklift Truck: Remove the carton from the vendor. From the front of the vendor tip the vendor backward and run forks under the cabinet.
- 4. Removing Vendor Without a Forklift Truck: Remove the carton from the vendor. Break off the thin piece of board behind the rear legs. From the front of the machine tip the vendor back enough to clear the lower legs from the holes in the front board. Push the machine back off the base. Remove the pallet.

NOTE: Because the weight concentration is toward the back of the cabinet, trucking and lifting should be done from the back. CAUTION should be taken when trucking from side.

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

CLEANING

The Snackshop 120 series 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 1.03 for removal of spirals and removal of the product spacers.

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

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



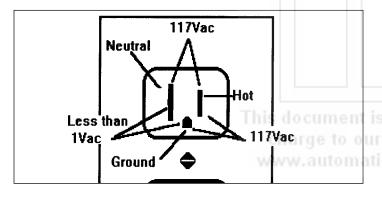
CAUTION: THIS MACHINE IS DESIGNED FOR INDOOR USAGE ONLY. ANY OTHER USAGE MAY VOID THE MANUFACTURERS WARRANTY.



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



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
below.



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

Loading Snack Shelves

Open door to full open position, push down on plastic lock lever (Figure 1.1) on both sides of shelf to unlock shelf, holding lever down. Grasp the shelf, under both front corners (see Figure 1.1), lift front 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 (see Figure 1.2). The width of the product must be greater than the diameter of the snack spiral. If it is smaller, the product may fall through when it is in the front, ready to vend position.

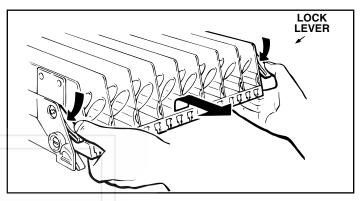


Figure 1.1: Moving shelf to loading position.



Figure 1.2: Placement of product on main product snack shelves and front end position of spiral.

Adjusting the Stopping Position of the Spiral.

One primary difference that distinguishes the new motors from previous motors is the presence of an eight sided star at the drive hub of the motor. This permits the stopping position of the spiral to be customized by the operator to ensure the best possible delivery of product. To change the stopping position of the spiral, remove the spiral lock from the motor by pinching the shaft of the spiral lock from the back side of the motor and pulling forward on the front side of the spiral lock. The spiral lock can be reinstalled in any of eight different positions by turning the spiral lock to the position desired and pushing the shaft of the spiral lock through the eight sided star at the drive hub of the motor.

Removal of Spiral

Grasp the front of the spiral and turn it clockwise. Lift the spiral up and off of the spiral lock. When replacing a spiral attach it around the tab on 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 if the spiral pointing downward on the left side) (see Figure 1.3). Give a light forward pull on front of the spiral to check it is locked in place.

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vending of products wider than 5 $^1\!\!/\!2$ " in the second column. If this is used the right column must be used to vend a narrower product.

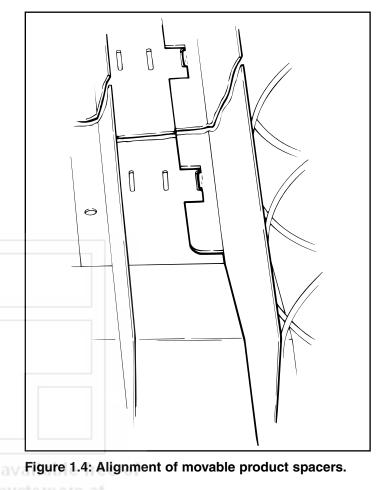


Figure 1.3: Removing and installing spiral.

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 four 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 slot (one front and one rear). (See Figure 1.4). Push the spacer to the rear to allow the ears to enter the slots, then allow the spacer to move forward. Be sure the ears are in the same set of slots, front and rear. (See Figure 1.4). 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

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 (see Figure 1.5) that rests on the shelf. These products must also fit properly product in the spiral space; do not force product into spiral.

Product Spacers-10 Selection Shelf

The 10-selection shelves are equipped with a product spacer (see Figure 1.6) that can be pivoted from the right side of every other product space. These spacers should be pivoted out to hold the product upright, but not tight against the product. Leave about 1/8" clearance between the spacer and the product.

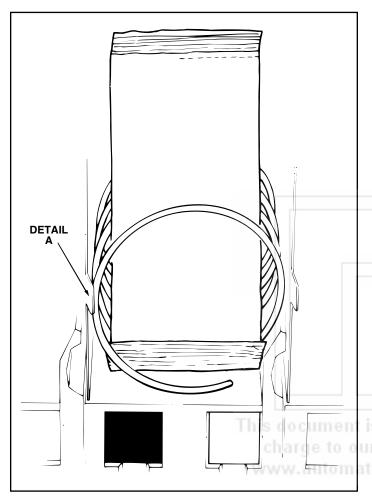


Figure 1.5: Placement of product on main product candy shelves and front end position of spiral.

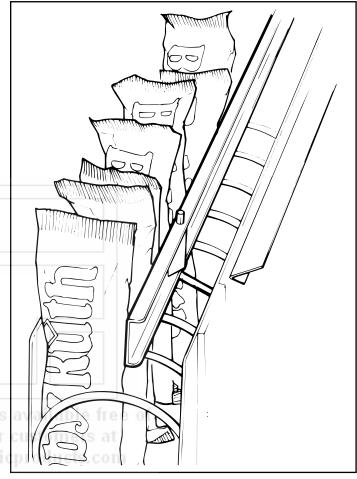


Figure 1.6: 10 selection shelf product spacer positioned to hold candy upright.

These spirals are removed and installed the same as the large spiral (see Figure 3), except that the front end position is different (approximately 5 o'clock)(see Figure 1.5) 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 (see Figure 1.5, Detail A).

Product Pushers

Included with the machine is 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 fall from the shelf. It can also be used with products that have the wrapper end flap on the outside of the package. In this case, the pusher prevents these products from hanging on the spiral by spreading the flap. The pusher is installed approximately 210 degrees from the front end of the spiral with the tab extending forward (see Figure 1.7). Locate the pusher in its proper position, hold it against the spiral wire and push the semi-circular part around the spiral wire. Note: Not every selection spiral will need a product pusher. (Example - Box Items.)

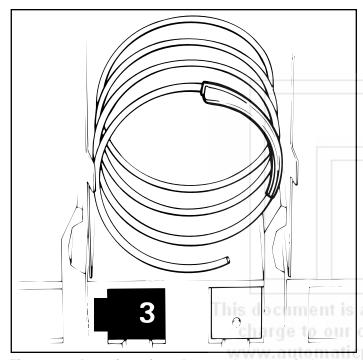


Figure 1.7: Location of product pusher on spiral.

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 (see 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 setting to the bottom of the package.

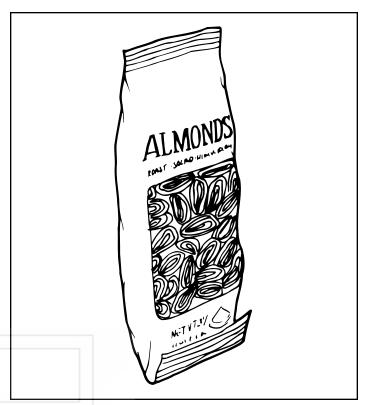


Figure 1.8: Fold bagged items bottom edge forward and up.

CIGARETTE VENDING FROM THE API 123.

Cigarettes can be vended from the candy shelves using the (15 capacity) spiral for the soft pack regular, king, 100 MM or 120 MM packs. the (12 capacity) spiral should be used for (box) packs.

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.

INSTALL PROPER PRICE TABS into price tab holder for each selection in the main product area. (See Figure 1.9)

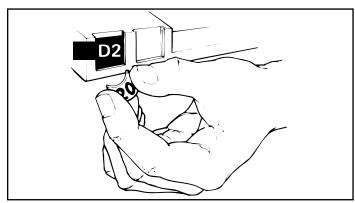


Figure 1.9: Installing price tabs.

components

Loading Gum and Mints:

The Gum and Mint shelf is located below the lowest Snack Shelf (optional). Unlatch the shelf by pulling forward the two metal latches located to the right and left of the shelf and pull forward. The cover can be pushed back to the rear for easy loading. The shelf contains four individual selections.

The first selection on the left contains two fillers for use with thin mints. (Rolaids - Certs, etc.). These fillers can be removed for standard gum or mints.

The two selections on the right of the Gum and Mint shelf also have fillers. These selections can be used for standard size gum and mints or the fillers may be removed for larger gum and mint products.

Each selection has a display hinge assembly which should be adjusted after the shelf is loaded. To adjust the display hinge, loosen the wing nut and slide the spring hinge of the flipper over the second product and fasten tightly.

- ◆ Be sure to close the cover on the gum and mint shelf before pushing the shelf back to its home position.
- ◆ The gum and mint shelf can be used as a loading platform while filling the machine. The maxium load of the gum and mint shelf is 35 pounds.



Connecting a 320 to a 120 Series Snack.

A 320 machine can also be controlled by a 120 Series snack merchandiser in lieu of a Control module. The following is a list of steps required to connect a 320 (AL A

CARTE) machine to a 120 series snack machine.

- Locate the interconnect harness coming out of the back side of the food cabinet and route it into the back side of the snack (remove the triangular plate just above the line cord) to the LogiCenter board and plug into the P8 connector. (Bottom Right)
- The 320 machine is considered Cabinet 2 when connected to a 120. Make sure the Jumper on the Food Driver Board (FDB) is set to cabinet 2.
- 3. Set the Temperature Control jumper on the FDB to the appropriate temperature setting. R for a refrigerated machine, F for a frozen machine. NOTE: This jumper is only a default setting, if for any reason the snack machine looses communications with the food/frozen machine this setting takes over.
- All programming for the 320 (cabinet 2) is done in the snack machine. The following items must be programmed for the 320 machine to operate correctly,:
- A. Set Motor Pairs by pressing and holding down the * key while pressing F1 on the MasterMenu keypad.
- B. Set Temperature for Cabinet 2 by pressing and holding down the * key while pressing F2 on the MasterMenu keypad.
- C. Set Prices by pressing F4 on the MasterMenu keypad.

NOTE: All selections in the 320 will start with the number 2 and all selections in the snack will start with the number 1. The item tabs on the 320 are reversible.

For Detailed information on setting up a 320 (A LA Carte) merchandiser, please refer to the 320 Service Manual paying special attention to the two blue pages in the middle of the book with the heading "Quick Set up Reference".

MasterMenu Online Software

MasterMenu Online software gives you the capability of completely setting up any 120 Series Snack merchandiser, 310 Control Module, 320 food merchandiser, or 223 Hot beverage merchandiser machine on your personal computer (PC). MasterMenu Online also has the ability to load complete new logic board software revisions to a machine. To load complete new software into a machine the PC must be connected directly to the machine logic board via a cable P/N 56800022 and the DEX/UCS harness P/N 680509 . These updates can be sent to you via e-mail or as a file on a floppy disk.

MasterMenu Online Installation

Personal Computer Requirements

To install MasterMenu Online, you need:

- Personal or Multimedia computer with a 486 or higher processor.
- Microsoft Windows 95 operating system or later.
- 16 MB of Ram.
- 5 MB of hard disk required.
- VGA or higher resolution video adapter.
- Microsoft Mouse or Compatible pointing device.
- 3.5 inch floppy drive

CHIP

Two pieces are required to use *CHIP*, the touch memory button *(CHIP)* and an Upload/download Harness that allows *Chip* to communicate with the machine.

Touch Memory Button (Pn 17500003)

The Touch Memory Button (CHIP) can be used to download to or upload from any 310 Control Module or APi 20 Series machine. CHIP is capable of storing all settable data from a machine, with the exception of the time and date. Once CHIP is programed you can take it to as many machines as you wish to upload the information stored in CHIP. CHIP can be overwritten and reused as many times as desired. CHIP is mounted on a key chain holder. CHIP can be programed from a machine that is already set up and then used to set up other machines that are to be programed identically.

CHIP can also be programed from MasterMenu Online, MasterMenu Online is a software program that allows you to set up any 310 Control Module or 20 Series machine on your personal computer (PC). This information can then be stored by filename in you PC and is always accessible for any changes you may want to make the machine in the future, including pricing. To load **CHIP** from your PC requires harness (Pn 17500004), included in this package.

Touch Memory Button (CHIP) and Upload/download Harness (Pn 16800013)

The *CHIP* upload/download harness is attached to the Logic Board (LCB) on J1 (upper right hand corner) and the other end is mounted on the swing panel in a depression just above the display, six of these harnesses included in this package.

Chip Upload and Download Instructions.

- Open Machine/Tower door, the display should indicate "Enter for MasterMenu".
- 2. Press Enter
- 3. Press the > until the display indicates "Configuration".
- Press Enter
- 5. Press the > until the display indicates "Configuration Load".
- 6. Press Enter, the display should read "MasterMenu Online".
- Press the + until the display indicates "Tmu Upload" (from Tmu to Lcb) or "Tmu Download" (From board to Tmu).
- 8. Press Enter
- The display will indicate "Awaiting Download" or "Awaiting Upload".
- Press the memory button CHIP against the socket and the display will indicate "Transfer in Progress".
 When the transfer is complete the display will prompt "Transfer Complete". If for any reason the transfer was unsuccessful the display will prompt "Transfer Error".

Note: To Use MasterMenu Online or Chip the Software on the Logic Board must Be at the Following Revision or Higher:

3.5 Flash Memory and 3.0 Microprocessor

Ventilating Fan:(Part #660441 - 120 Volts) (Part #660441-1 - 240 Volts) Export

The ventilating fan keeps a steady flow of air moving through the vendor cabinet. Installation of the fan takes only a few minutes. All vendors are wired with a fan plug on the junction box for easy installation.

Base Kits:

Base kits are available to make the vendor compatible with other manufacturers.

Gum and Mint:

Gum and Mint units are available as an option with APi 120 series vendors. For information pertaining to loading or servicing gum and mint unit, refer to this service manual for loading instructions and service instructions.

optional equipment.

Dual Spiral Shelf:

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

Half Cycle Motors

The half cycle motors are used to vend thin items. This motor is used with a product divider that is positioned down the center of the coil. The product is placed on both the left and right hand side of the coil. When the motor turns, it turns only 180 degrees (½ revolution) rather than 360 degrees (full revolution).

Special Spirals (122/123 ONLY):

Special candy spirals are available for use in the four (4) and five (5) selection snack shelves on 122/123 machines only. For the sake of identification, the back end of these spirals are colored RED and should never be used in the eight (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 count special spiral
400140-1	15 count special spiral
400141-1	18 count special spiral
400142-1	24 count special spiral
400143-1	30 count special spiral
400151-1	20 count special spiral

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 an ten selection shelf.

Soup Dispenser 122/123: (Kit 750083)

A canned soup dispenser is available as an option for use in the four/five selection snack shelves. The dispenser is easy to install and holds up to nine cans in the unit.

Delivery Bin Cushion

A delivery bin cushion is available for use when vending heavy items.

Lexan Window

A Lexan window is available as a direct replacement for tempered glass.

The APi 125 Add On:

This unit is used in conjunction with a 121, 122, 123, 128 or 129 machine. The 125 operates from the selector panel of the host machine. Since the 125 machine has no control panel, the shelves are identical to the 123 models

(interchangeable). The 125 machine can only be purchased with six shelves as a 30 selection machine (all snack shelves) or a 35 selection machine (five snack shelves and one candy shelf). The 125 machine cannot have the following options: Gum & mint tray; chilled machine.

The APi 127 Add On:

This machine is used in conjunction with a 121, 122, 123, 128 Or 129 host machine. The 127 operates from the selector panel of the host machine. The 127 machibne is available in a number of configurations with a maximum of 25 selections. The 127 is not available with gum & mint or the chiller option.

Point of Sale Window

The optional point of sale window is used for displaying POS material to your customer.

Golden Eye™

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The optional Golden Eye™ Bin Sensor ensures a positive vend every time. The sensor is installed in the delivery bin and senses that a product has been delivered. If no product was delivered, the spiral will turn make up to, two more attempts. If the product is not delivered after three attempts, the make another selection led will flash and the machine will allow the customer to make another selection or press the coin return and receive their change back.

The Refrigeration Unit

There are two different refrigeration units used in the 128/129 merchandisers. The first refrigeration unit is used in machines where only the can compartment is cooled. This is referred to as a 128/129 ambient machine. The other refrigeration unit is used in a machine that both the can and the snack compartment are chilled, this machine is referred to as a 128/129 chilled machine. The chilled machine has a separate 24 Vdc blower that circulates air into the snack area of the machine. The blower speed can be changed on the Digital Temperature Control to regulate how cool the snack area stays. The 128/129 machines are designed to operate at ambient temperature of 55°F to 100°F (13°C to 38°C).

Ambient 128/129 Refrigeration

This refrigeration unit is comprised of a 1/4 horsepower compressor and is a hermetically sealed system (no service ports). The refrigerant used in the refrigeration system is 134a and the charge is 10.3 ounces. The refrigeration system is controlled by the Digital Temperature Control. The temperature is set on the logic board, not the Digital Temperature Control on all software versions 4.XX and above.

Chilled 128/129 Refrigeration

This Refrigeration unit is comprised of a 1/3 horsepower compressor and is a hermetically sealed system (no service ports). The refrigerant used in the refrigeration system is 134a and the charge is 9.5 ounces. The refrigeration system is controlled by the Digital Temperature Control. The Temperature is set on the logic board not the Digital Temperature Control on all software versions 4.XX and above. The fan speed is set on the Digital Temperature Control, see Setting Fan Speed below.

Note: The Chiller Option can NOT be installed at a later date.

Digital Temperature Control

The Digital Temperature Control is located in the power supply box that is located behind the swing panel. The Digital Temperature Control Board contains a digital display and two programming buttons. There is a window toward the bottom of the power supply box that allows you to view the current temperature in the can compartment in Celsius only. To view the temperature in Fahrenheit, press and hold the 0 button for 3 seconds, and the current temperature of the can compartment will be shown on the main digital display. Located below the display window are the two programming buttons. Power to operate the Digital Temperature Control is supplied via the MDB connector on the logic board using communications cable (P/N 660659-1). Power to operate the refrigeration unit is supplied to the Digital Temperature Control Board immediately after the EMI filter and is switched on and off by a relay on the Digital Temperature Control Board. For a complete pin out of the Digital Temperature Control Board see page 6.04.

Note: The only setting that is programmed on the digital temperature control is the Fan Speed when you

have a chilled Snack area. Settable Temperature Range:

The settable temperature range is from 40°F to 70°F (4°C to 20°C). The recommenced temperature for this machine is 42°F (6°C). The Digital Temperature Control will maintain the temperature as measured by the temperature probe (P/N 13600001-01). The harness for the probe is plugged onto the Digital Temperature Control Board at the connector marked JP3. The probe is mounted in cabinet below the bottom shelf on the right hand side, just above the intake air of the evaporator. An unplugged or open temperature sensor probe will display as -9°F (-9°C). A shorted or closed probe will display as 99°F (37°C).

Setting the target temperature:

The temperature setting is programmed in the logic Board. The Digital Temperature Control will allow you to set the temperature but it will change back to what is programmed in the logic board. To set the temperature:

- 1. Press and hold the * key while pressing the F2 button, the display will prompt " Set Temperatures".
- 2. Press Enter, the display will prompt "CAB 1 AMBIENT --- F".
- 3. Press the > and the t in ambient will start flashing.
- 4. Press the + key until the display says "CRB 1 CHILLED + 70 F".
- 5. Press the > and the " $+ \Pi$ " will start flashing.
- 6. Press the + or key to change the display to the desired temperature and press enter to set the temperature shown.

Note: to set temperatures in Celsius, Press the > to "F" and use the + key to change it to "E".

Setting the Fan Speed on a Digital Temperature Control:

Pressing both programming buttons at the same time will toggle the display between °F (Fahrenheit), °C (Celsius) and FA (Fan Adjustment). Releasing both buttons when FA is displayed will show the current fan speed.

- www.altomaticpl 1. Pressing the left Programming button will increase the set fan speed shown on the display.
 - 2. Pressing the right Programming button will decrease the set fan speed shown on the display.
 - 3. When you reach the desired fan speed (settable from .1 .10, .5 is the default) releasing the programming button for 2 seconds will lock in the new fan speed.

NOTE: When in the programming mode there will be a black square (decimal point) in the bottom left corner of the display, during standby only the current temperature is displayed in Celsius.

Refrigeration Processing:

The Digital Temperature Control maintains the temperature as measured by the temperature sensor. The chiller unit will be turned on at the set temperature plus 2°F and will be turned off at the target temperature minus 2°F. A minimum of 1 minute is required for both the cycle on and cycle off time of the relay. This insures the compressor is not cycled on and/or off to rapidly. Independent of the temperature, the relay, therefore the compressor, will be off 7 minutes every hour for a defrost cycle. The power for the Evaporator fan motor is constant and is not switched by

components.

the relay.

Power Supply

The 115 VAC 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 8 volts and is plugged into the (L5 position) of the Logic Center Board.

Lighting System

There is only one fluorescent lamp in the Snackshop 120 series. The lamp is located on the top of the door and 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. Bulb part# 380022-5 (F18T8/CW-24).

Main Product Shelves:

There are five or six main product shelves per machine. 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 rear right of the cabinet. The motors are the same on either shelf. It is possible in the Snackshop 120 series to exchange a five selection shelf with a ten selection shelf or visa versa. You also have the capability to gain ½ inch 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 & 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.

Removal of Product Shelf:

- Lift up and push the lock levers toward the back of cabinet.
- B. Pull the shelf to its loading position.
- 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.

Delivery Bin:

This is located below the display window on the door and is mechanically operated. The linkage on the hinge side of the delivery bin may require occasional lubrication. Should the door become difficult to operate, place a small amount of grease on the arm tracks.

Removal of Delivery Bin:

- A. Remove the screws from the left and right side of the delivery bin. These screws fasten into the lower door brace. Remove the two screws and brackets at the top of the delivery bin.
- B. Grasp delivery bin on both sides and lift up and pull back. Should the bin be tight, rock it by lifting on one end, then the other.



Replacement of 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.

 Install the four screws and two brackets, to secure bin to door.



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 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.

Cooler Assembly:

When placing a 128/129 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 (Page 31., Item 19.) should be removed and cleaned regularly for proper operation of the refrigeration

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

system.

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. Tilt the complete door assembly down and lift up for removal.
- C. Remove the two "L" brackets holding the cooler assembly to the cabinet. 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 neccessary 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.

Removal of Gum And Mint Motor:

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 is 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.

Removal of Gum and Mint Shelf:

Under the gum and mint shelf remove the two screws holding the gum and mint receptacle harness bracket. Loosen the other two screws on each end of the gum and mint pusher stop strap and disengage it from the cabinet. Grasp the shelf and pull the shelf straight out. With the shelf out you can replace the gum and mint pusher by removing the screw.

Reverse the procedure to replace the shelf. Pay special attention when you put the gum and mint pusher stop strap back on that all the gum and mint pushers have spring tension and are behind the strap.

DEX/UCS

The APi 120 supports DEX/UCS Communications
Protocol - NAMA Vending Industry Data Retrieval
Standard. The machine will automatically recognize the
DEX/UCS device when it is plugged into the control board
and will recognize when the device initiates the
communication protocol. The transmission/reception of
data to the device will then take place automatically.

Muti Drop Bi
Coinco

Mars

The machine wi
which Validator

Printer Support

The machine is able to print to a 40 character wide printer connected to the serial port. The communication is as specified by the user in the Printer Setup Menu . The machine uses only standard printer control codes to maximize the number of possible supported printers. The machine is able to print any of the following types of information set by a menu item in the MIS Menu heading:

- MIS Data
- Machine Setup/Configuration Parameters
- Diagnostic Information

When an attempt is made to output data to the printer without a printer connected, an error message will be displayed indicating that the printer is not connected.

Multi-Drop Bus (MDB)

The AP 120 supports the Multi-Drop Bus protocol for the Bill Acceptors, Debit Cards, and Coin Mechanism peripherals.

Coin Mechs

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

24 Volt Micromech Models - 15 pin plug only

Coinco 9302 LF Mars TRC-6010XV VN-4010

Muti Drop Bus Models

Coinco

Mars TRC-6510 VN-4510

9302-GX

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

Bill Validators

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

24 Volt Validators

Coinco BA32SA

BA32R

Mars VFM1-L2-U4C

VFM3-L2-U4C

VN- 2502-U5E

Muti Drop Bus Validators

Coinco BA32SA

BA32R

Mars VN- 2502-U5M

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

Debit Cards

The APi 120 series will automatically determine at power up which Debit Card System is connected and configure itself accordingly. When a Debit Card System and a Coin Mech are used together, they must communicate using the same communication protocol.

components.

Vend Motors

The vend motors used in the APi 120 machines have been specifically developed to operate with the APi MasterVend™ Control System. One primary difference that distinguishes the new motors from previous motors is the presence of an eight sided star at the drive hub of the motor. This permits the stopping position of the spiral to be customized by the operator to ensure the best possible delivery of product. Motors used in the 120 & 320 are of the fast trac style, with all electronics required to correctly operate the motor contained inside the gear case or the motor housing and no external control board. Each of the motors used with the MasterVend™ Control System will have two terminals. The two terminals continue to be used to identify the shelf and column (selection) to be vended.

SHELF WIRING DIAGRAM

0	0	0	0	0	0	0	O	0	Q
 0	1	2	3	4	5	6	7	8	9
12	12	12	12	12	12	12	12	12	12

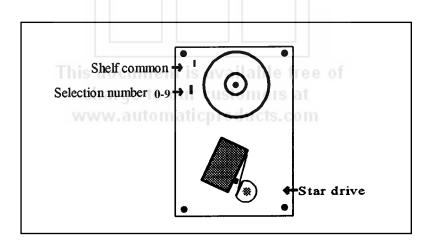
Selection Wire Number

Shelf Common Number

Each motor requires two wires to operate correctly. These wires are: shelf common, and selection.

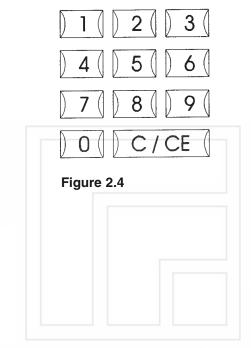
Each selection on a shelf has the same common shelf wire - all shelf harness use the wire #12 as a shelf common. This corresponds to the selected shelf wire in the cabinet harness. The terminal for the shelf common in the harness is the smallest of the two.

Selection numbers are assigned from left to right, starting with selection 0. Each selections number corresponds to the number of the wire for that selection.



Selection System

The selection system used with the MasterVend™ Control System is different from all previous alpha-numeric systems we have manufactured. The eleven digit selection panel (see figure 2.4) is located on the front control bezel and consists on the numbers 0 through 9 and the letter C, which is defined as a clear button. The selection system used with the MasterVend™ Control System is all numeric and uses three digits to identify all the selections. The first digit is used to determine which cabinet is selected, the second digit determines the shelf selected, and the third digit, the selection on that shelf. The left or first selection on each shelf is designated as selection 0, and on a ten select shelf the selection numbers would be increase by one, so that the right hand selection will be selection 9. The numeric keys on the selector panel can be used to enter numeric data any time it is required during setup or maintenance of the equipment.

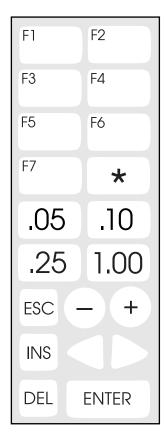


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components.

MasterMenu™ Keypad

The MasterMenu[™] keypad (see figure 2.3) is located on the front of swing out panel directly below the selection keypad. The MasterMenu[™] keypad is only active when the Control module door is open, so even in the event of vandalism to the control bezel, no access to the control functions is permitted. The MasterMenu[™] keypad consists of seven function buttons, a key, four coin payout buttons and the eight keys used to operate the MasterMenu[™] functions. The entire keypad becomes active once the machine door is opened.



Function Buttons

The seven function keys (F1-F7) are assigned to specific pre-determined functions, primarily for route service personnel.

The key shall be used to enter the character "*". Pressing the key before one of the function keys for through for are specific to the second level of menu heading/items currently active. The * key can also be used for wildcarding in the pricing and motor configuration menus. For more information on wildcarding see the configure motors menu in section 4 of this manual.

Coin Payout Buttons

The four coin payout buttons are used to pay coins out of an L+ or a standard US (dummy mech). The four coin payout buttons are ___05___, ___10___, __25___ and ___1.00___. The four coin payout buttons may also be used to enter pricing information while assigning prices. For example, to enter a price of \$.65, pressing the __25___ key twice , the __10___ key once and the __05__ key once, would result in .65 appearing on the display. See the price setting section for additional information.

The ESC key is used for exiting the current menu without making any changes prior to commitment. Note: Closing the main cabinet door will have the same effect as if the user depressed the ESC key and causes the machine to exit the MasterMenu™ System and return to Operational Mode.

The ENTER key provides a dual purpose operation. It provides the a mechanism for choosing a menu heading. It also provides a means to commit insertions/modifications/deletions made in a menu item.

The 🗔 and 🗔 keys provides are used for incrementing and decrementing the available choices in a menu.

Note: Anywhere in this manual that the \boxdot or \boxdot keys are defined to sequence through numeric data, the front panel may be used as an alternate input source.

The and keys have a dual purpose operation. They provide a means to select the menu heading immediately to the left or right of the current menu heading. When inserting data within a menu, these keys also provide a means to move the cursor from its current position to the position directly to its left or right.

The DELETE key is used to delete the character on the current cursor position, shifting all subsequent characters to the right of that position left by one.

The INS key provides a mechanism to insert a character to the left of the current cursor position, shifting all characters to the right of that position (including the current character) right by one.

Note: Depressing a function key will not cause you to enter the MasterMenu™ System.

Control System and Boards

The MasterVend[™] Control System consists of up to three different boards, depending on the configuration. All Model 120 and all towers consist of the LogicCenter board (LCB) and the display board. When a machine is slaved off of the APi 120 (320 series 127) this cabinet will have a Food Driver Board (FDB) contained in it.

LogiCenter Board (LCB)

The LCB interfaces with the FDB (when used), display board, selector panel, MasterMenu keypad, coin mechs, bill validators and all other peripherals. The LCB also stores all the programming and mis information.

Food Driver Board (FDB)

This board is only used in a food/frozen machine or a slave snack. This board contains all the temperature monitoring functions for cabinet that it is contained in, and communicates with the LCB via a 6 wire computer level interconnect harness. The FDB has three LEDs on it and the status of the FDB can be determined by observing the LEDs.

The Front Panel Display

The display is capable of displaying 20 alpha-numeric characters. The supported character set includes:

- Upper and lower case alphabetic characters "A" through "Z"
- Numeric characters "0" through "9"
- Special characters: (,), [,], ., ', -, =, \$, /, \, *, ^, +, , ,", ?, _.

The Chime

The chime will sounded when the following events occur:

- Three times when an invalid key sequence is entered from either the front panel or the MasterMenu™ Keypad.
- Three times when the customer enters an invalid key sequence from the front panel.
- Five times when the customer has won a free vend due to WINNER MODE.
- For fifteen seconds if a motor configuration mismatch is detected when the main cabinet door is closed.
- Five times when the customer attempts to purchase a sold-out item as determined by spiral selection.
- A single time to indicate the acceptance of an action by the control system.

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quick set up reference - electronics

The APi 128-129 model machines are shipped with the software already set up, the only setup that is necessary before putting the machine on location is to set the prices, temperature for the cans, and install the price tabs.

SET PRICES

Press the F4 on the MasterMenu keypad
Press ENTER 'to access SET PRICE menu.
Press 1 time to price. Using the selection buttons, enter desired price, Calculator style.
Press 1 time to selection. Using the selection buttons, enter desired selections at the price shown Repeat the above process for all additional prices to be set.
ESC to exit.

SET TEMPERATURE

SELIEMPERATURE
Depress and hold down the item key while pressing F2 on the MasterMenu keypad.
The display will indicate "Set Temperatures" Press ENTER. The display will prompt "Cab 1 Ambient".
Press the one time the t in the word Ambient will start flashing.
Press the → and the display will prompt "Cab1 Chilled +32 F".
Press the 🖸 key and the temperature will start flashing.
Press the 🕒 key until the Display shows the desired temperature (+42 F is the recommended temperature for cans)
Press ENTER to lock in the set temperature.

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function keys _____

Press F1 - View Historical MIS Menu

Press ENTER to View Historical MIS Use to scroll through MIS data. Press ESC to exit.

Press F2 - View Errors Menu

Press **ENTER** to View Errors, the first error will appear.

Use to Scroll through the error list. Pressing F2 when viewing an Error will cause

extended diagnostics to be displayed.

Press **ESC** to exit or **b** to go to next error.

Press F3 - Clear Errors Menu

Press or later to toggle between "N" and "Y". Press ENTER clear Errors. Press ESC to exit.

Press F4 - Set Price Menu

Press **ENTER** to access Set Price menu.

Press 1 time to price.

Using the selection buttons, enter desired price, calculator style.

Press 1 time to selection.

Using the selection buttons, enter desired selections at the price shown. Repeat the above process for all additional prices to be set.

Press ESC to exit.

Press F5 - Check Price Menu

Press ENTER to View Price and Product Code information. Using the selection buttons, enter selection number of price to be checked. Press **ESC** to exit.

Press F6 - Test Vend Menu

Use ⊕ or ⊡ to toggle between "N" and "Y".

Press ENTER and the front panel keypad becomes active. Press **ESC** to exit.

Press F7 - Tube Fill

Press ENTER the display will prompt TO 0.00 0.00 Drop coin through the top of the coin mech and the TO (TO-T3) will change to indicate which tube the coin went into, the first set of numbers indicate the value of coins in that tube and the second set of numbers indicate the value of coin in all tubes.

Press ESC to exit. NOTE: It is only necessary to teach the coin mech how much money it has if you have changed the payback option or if you track coin tube accountability.

The second level of Menu items can be accessed by pressing and holding in the * key while pressing one of the function buttons F1 - F7.

Press * F1 - Set Motor Pairs

Press ENTER to access Set Motor Pairs.

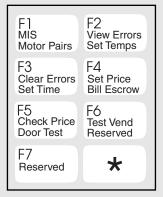
Press 1 time to change the paired state of the motor.Use the

and

key to togle the paired state of the motor between Y (yes) and (no). Press

1 time to selection. Using the selection buttons, enter desired selections for paired state shown.

Press ESC to exit.



Press * F2 - Set Temps

Press **ENTER** to access Set Temperatures menu.

Use the and keys to move through cabinet, temperature range, target temperature and temperature scale fields.

Use the 🕒 and 🕒 keys to increase or decrease the currently selected field.

Press the **ENTER** key when the desired temperature settings are displayed

Press ESC to exit.

Note: If you are NOT using a second cabinet, you do not need to set Cabinet 2.

Press * F3 - Set Time and Date

Press ENTER to access Set Time and Date Menu.

Use the <a> and <a> to move left or right through the time/date fields.

Use the
or
Keys to change the currently selected field.

Press ENTER to update the machine with the current date and time shown on the display.

Press * F4 - Bill Escrow

Press ENTER to access Bill Escrow.

Use the \oplus and \bigcirc to toggle between Y/N.

Press **ENTER** to commit to changes.

Press * F5 - Trap Door Test

Press **ENTER** to access Trap Door Test Menu.

Use the and to move through the door operation and cabinet fields.

Use the ⊕ or ⊡ to toggle the above fields

Press **ENTER** to start test.

Press * F6 - Transmit MIS Data

Press **ENTER** to access Transmit MIS Data.

Use the <a> and <a> to move through the available Peripherals.

Press ENTER to transmit MIS Data. Note: When using Dex the MIS information will automatically transmit upon connection.

Press * F7 - Set Defrost

Allows you to customize target defrost time for cabinets 1 and 2. It is not necessary to set this menu the default defrost time is set to a default at midniaht.

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Introduction

The APi MasterMenuTM system is user friendly and provides a common look and feel across all menu items. The system allows the user to move freely through the menus and provides ease of insertion, modification, and deletion of operational parameters and data. In addition, the system provides the user with status and diagnostic messages to aid in the use and service of the machine.

Operational Mode

The Operational mode provides the machine with the ability to vend products. The machine is in Operational Mode whenever the main cabinet door of the machine is closed. Upon opening of the main cabinet door, the machine will remain in Operational Mode until the ENTER key is depressed at which time it will enter the Service Mode. This allows for vends to occur while the main cabinet door of the machine is open and the user has not yet entered Service Mode by depressing the ENTER key. This is referred to as Enhanced Operational Mode. Enhanced Operational Mode differs from Operational Mode in that the Function keys and Payout keys are active. If any key in either of these sets of keys is depressed, it will perform its function and return the machine to Enhanced Operational Mode when complete.

The Service Menu provides access to all configurable items in the machine as well as retrieval of MIS information. The Service Menus shall only be available when the machine is in Service mode.

Service Mode

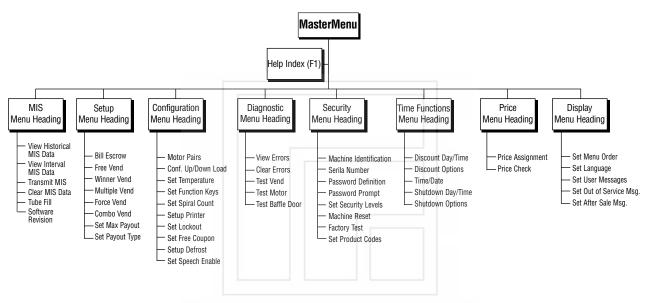
Service Mode provides the ability to configure the machine. When the Control Module door is opened, the display indicates "ENTER FOR MASTERMENU" if no errors have been logged, or "ERRORS-NN" in the case where errors exist (where "NN" is the number of errors). The machine returns to Operational Mode whenever the main cabinet door is closed.

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mastermenu™ system

The MasterMenu™ System provides a set of text based Service Menus which allows interface to all functions of the machine. Menus appearing at the upper most level of the menu system are referred to as Menu Headings. Menus appearing under the Menu Headings are referred to as Menu Items.

Figure 1.1: illustrates a diagram of the MasterMenu™ System.



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quick reference directory for mastermenu™

The following is a quick reference for the keys on the MasterMenu[™] keypad, for a detailed list see page 2.05 of the components section.

*	Used to enter the character "*".
	The four coin payout buttons may also be used to enter pricing information while assigning prices.
ESC	Used for exiting the current menu without making any changes.
ENTER	Used to choose a menu heading and to commit to insertions/modifications/deletions made in a menu item.
and D	Used to move the cursor from its current position to the position directly to its left or right also to select the menu heading immediately to the left of the current menu heading.
• and •	Used for incrementing and decrementing the available choices in a menu . Note: Anywhere in this manual that the or keys are defined to sequence through numeric data, the front panel may be used as an alternate input source.
DELETE	Used to delete the character on the current cursor position.

Operating System Quick Reference Index

On the bottom of each page is a quick reference index (figure 1.2). The white box indicates where you are in the MasterMenuTM System, the shaded areas can be used as a reference to move through the sections of the manual. Figure 1.2 below indicates that you would be in the diagnostics menu.

Note: Depressing a function key will not cause you to enter the MasterMenu™ System.

Figure 1.2

INS

Γ	M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
L	0	02.02.10	001111001111111111111111111111111111111	5	020011111112110			5.0. 2.12.10

Used to insert a character to the left of the current cursor position.

mis menu heading _____

The MIS Menu heading contains all the MIS (accounting) information collected by the machine.

Pressing ENTER when the display indicates MIS will cause the display to be updated with View Historical MIS.

Use the < or > arrow keys to scroll through the following menu items:

View Historical MIS View Interval MIS Transmit MIS Data Clear MIS Data Tube Fill Software Revision

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

VIEW HISTORICAL MIS Press ENTER

HIDT SALES **00.00** Use the < or > keys to scroll through the MIS Data.

VIEW INTERVAL MIS Press ENTER

: TOT Sales 00.00 Use the < or > keys to scroll through the MIS Data.

Table 4.1 below is a list of all the viewable MIS Data

Table 4.1 below is a list of all the viewable ivi	is data	
NAME	Display Format of Historical MIS	Display Format of Interval MIS
Total Value of Sales	hTÖT SALES 000000.00	iTOT SALES 000000.00
Number of Vends	h# VENDS 0000000	i#VENDS 0000000
# of Test Vends	h# TEST VNDS 0000000	i# TEST VNDS 0000000
# of MIS Resets	h# MIS RESETS 0000000	i# MIS RESETS 0000000
# of Machine Resets	h# MACH RESET 0000000	i# MACH RESET 0000000
Number of Bills Stacked	h\$ BILLS 000000.00	i\$ BILLS 000000.00
Value of Coins To Tubes	h\$ to TUBE 000000.00	i\$ TUBES 000000.00
Value of Coins In Tubes	h\$ in TUBE 000000.00	i\$ TUBES 000000.00
Value of Cash Dispensed	h\$ DISPENSED 000000.00	i\$ DISPENSED 000000.00
Value of Cash Dispensed Manually	h\$ MAN DSP 000000.00	i\$ MAN DSP
Value of Cash In	h\$ CASH IN 000000.00	i\$ CASH IN 000000.00
# of Free Vends	h# FREE VENDS 0000000	i# FREE VENDS 0000000
Value of Free Vends	h\$ FREE VENDS 000000.00	i\$ FREE VENDS 000000.00
# of Token Vends	h# TOKEN VENDS 0000000	i# TOKEN VENDS 0000000
Value of Token Vends	h\$ TOKEN VENDS 000000.00	i\$ TOKEN VENDS 000000.00
Value of Coins To Cash Box	h\$ BOX 000000.00	i\$ BOX 000000.00
Value of Discount, Discounted Vends	h\$ OF DISC 000000.00	i\$ OF DISC 000000.00
# of Discounted Vends	h# DISC 0000000	i# DISC 0000000
Value Discount, for Combo Vends	h\$ COMBOS 000000 00	i\$ COMBOS 000000.00
# of Combo Vends	h# COMBOS 0000000	i# COMBOS 0000000
# of Winner (Free) Vends	h# WINNERS 0000000	i# WINNERS 0000000
Value Winner (Free) Vends	h\$ WINNERS 000000.00	i\$ WINNERS 000000.00
# of Card Vends	h# CARD VENDS 0000000	i\$ CARD VENDS 0000000
Value of Card Vends	h\$ CARDS 000000.00	i\$ CARDS 000000.00
Value/Number of Vends by Cabinet	h\$/# BY CABINET	i\$/# BY CABINET
Talabilation of Tollab by Cabillot	C01- 00000.00 000000	C01- 00000.00 000000
	C02- 00000.00 000000	C02- 00000.00 000000
Value/Number of Vends By Sel #	h\$/# BY SELECTION NUMBER	i\$/# BY SELECTION NUMBER
Time of Last Vend By Selection #	TIME BY SELECTION	TIME BY SELECTION
initio of Last Forma Ly Coloculon in	110- HH:MM DD/MM/YY	110- HH:MM DD/MM/YY
Last Defrost Cab-1	DEF1- HH:MM DD/MM/YY	DEF1- HH:MM DD/MM/YY
Last Defrost Cab-2	DEF1- HH:MM DD/MM/YY	DEF1- HH:MM DD/MM/YY
Door History For Tower	DOOR OPEN TOWER	DOOR OPEN TOWER
(Repeated For Last 5 Openings)	1-MM HH:MM DD/MM/YY	1-MM HH:MM DD/MM/YY
Door History Cab-1	DOOR OPEN CAB-1	DOOR OPEN CAB-1
(Repeated For Last 5 Openings)	1-MM HH:MM DD/MM/YY	1-MM HH:MM DD/MM/YY
Door History Cab-2	DOOR OPEN CAB-2	DOOR OPEN CAB-2
	1-MM HH:MM DD/MM/YY	1-MM HH:MM DD/MM/YY
Mach Id #	MACH ID 1234567890	MACH ID 1234567890
Mach Asset #	API1234	API1234
Mach Serial #	SER NUM 123456789012	SER NUM 123456789012
Software Version #	PXX LXX.XX C1XXC2XX	PXX LXX.XX C1XXC2XX

|--|

Display

TRANSMIT MIS DATA
TRANSMIT TO DEX

Press ENTER

Use the > to PRINTER or Press ENTER to TRRNSMIT TO DEX (Dex transfer is automatic on connection of dex device on software version 3.50 or higher) See table 4.2 for a list of MIS Data transferred and Dex definitions.

TRANSMIT TO PRINTER

Press ENTER then use the + or - key to toggle between SHORT LIST and FULL LIST. Press ENTER to start the print. See table 4.3 for a list of MIS data transferred to the printer.

Table 4.2

DEX/UCS	Definition
ID1*0987654321*LCB120*3993*	* Serial # * Model # * Software Version * Machine Location** Machine ID #
API**1234567890	
VA1*300*9*300*9	*Total Cash (H) * Total Vends (H) * Total Cash (I) * Total Vends (I)
VA2**2**2	** # Test Vends (H) ** # Test Vends (I)
VA3*50*1*50*1	*Value of Winner (free) Vends (H) * Number of Winner (free) Vends (H) *
	Value of Winner (free) Vends (I) * Number of Winner (free) Vends (I)
TA2***0*0*0*0	*** Value of Token Vends (I) * Number of Token Vends (I)* Value of Token
	Vends (H) * Number of Token Vends (H)
PA1*CAB1	* Cabinet 1
PA2*7*250*7*250	* # of Vends for PA1 above (H) * Value of Vends (H) * # of Vends (I) *
	Value of Vends (I)
PA1*CAB2	* Cabinet 2
PA2*3*150*3*150	* # of Vends for PA1 above (H) * Value of Vends (H) * # of Vends (I) *
	Value of Vends (I)
CA3*600*0*300*300*600*0*300	*Value of Cash in (I) * Value of Cash to box (I) * Value of cash to tubes (I)
	* Value of bills to box (I) * Value of Cash in (H) * Value of cash to box (H)
	* Value of Cash to Tubes (H) * Value of Bills to box (H)
CA4*200*540*200*540	Value of Cash Dispensed (I) * Value of Cash Manually Dispensed (I) *
	Value of Cash Dispensed (H) * Value of Cash Manually Dispensed (H)
CA7*50*50	* Value of Discounts (I) * Value of Discounts (H)
CA15*0	Value of Coin Tubes
DA2*0**0*	* Value of Card Sales (H) * Number of Card Sales (H) * Value of Card Sales (I)
	Number of Card Sales (I)
EA2*MIS RES**0	*MIS Resets ** # of MIS Resets Since Installation
EA2*MACH RES**0	* Machines Resets * # of Machine Resets Since Installation
MA5*DISC*1*1	* Discounts * # of Discounts (H) * # of Discounts (T)
MA5*COMBO*50*1*50*1	* Combo * Value of Combo Vends (H) * # of Discount Vends (H) * Value of
char	Combo Vends (I) * # of Discount Vends (I)
MA5* Winner *50*1*50*1	* Winner * Value of Winner Vends (H) * # of Winner (H) * Value of Winner
www.	Vends (I) * # of Winner Vends (I)
LS*0001	* Loop Header (Start of information by selection or product code)
PA1*110*20*001*0 (duplicated for	* Selection # * Selection Price * Product code * Spiral Count
all selections in the machine)	·
PA2*7*250*7*250 (duplicated for	* # of Vends for PA1 above (H) * Value of Vends (H) * # of Vends (I) *
all selections in the machine)	Value of Vends (I)
PA5*TIME*020421*1655	* Time of last Vend for PA1 above * YYMMDD * HHMM
(duplicated for all selections	Note: If date = 000000 Selection is not in use.
in the machine)	
EA1*M DOOR	* Last Time of Door Opening for Tower or Snack * YYMMDD * HHMM *
1*020421*1655*60 (repeated 5	MM, # of Minutes Door was Open
times for last 5 door openings)	
EA1*C1 DOOR	* Last Time of Door Opening for Cabinet 1 * YYMMDD * HHMM * MM,
1*000000*0000*00 (repeated 5	# of Minutes Door was Open
times for last 5 door openings)	
EA1*C2 DOOR	* Last Time of Door Opening for Cabinet 2 * YYMMDD * HHMM * MM,
1*000000*0000*00 (repeated 5	# of Minutes Door was Open
times for last 5 door openings)	·
EA1*DEF 1*000000*0000	* Last Time of Defrost for Cabinet 1 * YYMMDD * HHMM
EA1*DEF 2*000000*0000	* Last Time of Defrost for Cabinet 2 * YYMMDD * HHMM

I = Interval vends since last reset

H = Historical vends

M I S MENU SETUP MENU CONFIGURATION MENU DIAGNOSTIC MENU SECURITY MENU TIME FUNCTIONS PRICE MENU DISPLAY MENU	M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
---	------------	------------	--------------------	-----------------	---------------	----------------	------------	--------------

mis menu heading _____

Table 4.3

Below are the definitions for the MIS information downloaded to a printer.

S - indicates short list

F - indicates full list and includes everything in the shortlist

Field	Size	Definition	Field	Size	Definition
ID101	S	LCB Serial Number	EA101	S	Door Opening, Tower/Snack Header
ID102	S	LCB Model Number	EA102	S	YYMMDD Open for Tower/Snack
ID103	S	LCB Software Revision	EA103	S	HHMM of Open for Tower/Snack
ID106	S	LCB Machine (Asset) Number	EA104	S	Minutes of Opening Tower/Snack
VA101	S	Value of all Paid Sales (H)			
VA102	S	Number of all Paid Sales (h)	EA101	S	Door Opening for Cabinet 1 Header
VA103	S	Value of all Paid Sales (I)	EA102	S	YYMMDD of Opening for Cab 1
VA104	S	Number of all Paid Sales (I)	EA103	S	HHMM of Opening for Cab 1
VA202	S	Number of Test Vends (H)	EA104	S	Minutes of Opening Cabinet 1
VA204	S	Number of Test Vends (I)			
VA301	S	Value of Winner (Free) Vends (H)	EA101	S	Door Opening for Cabinet 2 Header
VA302	S	# of Winner (Free) Vends (H)	EA102	S	YYMMDD of Opening for Cab 2
VA303	S	Value of Winner (Free) Vends (I)	EA103	S	HHMM of Opening for Cabinet 2
VA304	S	Number of Winner (Free) Vends (I)	EA104	S	Minutes of Opening Cabinet 2
CA302	S	Value of Cash to Cashbox (I)			
CA304	S	Number of Bills to Stacker (I)	PA101	S	Cabinet 1 Header
CA306	S	Value of Cash to Cashbox (H)	PA201	S	Number of Vends for Cabinet 1 (H)
CA308	S	Number of Bills to Stacker (H)	PA202	S	Value of Vends for Cabinet 1 (H)
CA701	S	Value of Cash Discounts (I)	PA203	S	Number of Vends for Cabinet 1 (I)
CA702	S	Value of Cash Discounts (H)	PA204	S	Value of Vends for Cabinet 1 (I)
DA201	S	Value of Card Vends (H)			.,
DA203	S	Value of Card Vends (I)	PA101	S	Cabinet 2 Header
EA201	S	Number of MIS Resets Header	PA201	S	Number of Vends for Cabinet 2 (H)
EA203	S	Number of MIS Resets (H)	PA202	S	Value of Vends for Cabinet 2 (H)
EA201	S	Number of Machine Resets Header	PA203	S	Number of Vends for Cabinet 2 (I)
EA203	S	Number of Machine Resets (H)	PA204	S	Value of Vends for Cabinet 2 (I)
MA501	S	Value of Coins in Tubes Header	is avail:		
MA502	S	Value of Coins in Tubes	PA101	F	Selection Number 110 Header
MA501	S	# of Discounted Vends Header	PA102	mers at	Product Price Delection # 110
MA502	S	Number of Discounted Vends (H)	PA103	IEts.cor	Product Code for Selection # 110
MA503	S	Number of Discounted Vends (I)	PA104	F	Spiral Count for Selection # 110
MA501	S	\$ of Disc for Combo Vends Header	PA201	F	# of Vends Selection # 110 (H)
MA502	S	\$ of Discount for Combo Vends (H)	PA202	F	Value Vends Selection # 110 (H)
MA503	S	Number of Combo Vends (H)	PA203	F	# of Vends for Selection # 110 (I)
MA504	S	Value of Dicounted Vend/s (I)	PA204	F	Value Vends for Selection # 110 (I)
MA505	S	Number of Combo Vends (I)	EA101	F	Time of Last Vend Selection # 110
EA101	S	Last Defrost Date for Cab 1 Header	EA102	F	YYMMDD Last Vend Sel # 110
EA102	S	YYMMDD of Last Defrost, Cab 1	EA103	F	HHMM Last Vend Selection # 110
EA 103	S	HHMM of Last Defrost for Cab 1			
EA 101	S	Last Defrost Date for Cab 2 Header		Note: PA	101-EA103 is repeated for each
EA102	S	YYMMDD of Last Defrost Cab 2		selection	·
EA103	S	HHMM of Last Defrost for Cab 2			

|--|

mis menu heading

Die	nl	av
DIS	μι	ay

CLERR (15 DRTR - 1) Pressing the + key to toggle the N (no) to U (yes) then press ENTER will reset the interval MIS

data. It will also increase the MIS reset field by 1 reset each time a reset is done.

TUBE FILL Allows you to fill the coin mech and the logic board will count the money as it goes in and

continually track the coin mech inventory. This is the count the board uses when you choose tube

leveling as a Payout type in the Setup menu heading.

NOTE: It is not necessary to fill the coin mech in this mode unless you have changed to

tube leveling. To proceed press ENTER

TO = 00.00 (XX.XX TO is the tube # of the last coin inserted (1-4, O for a non tube coin)

00.00 is the value of the coins in the tube shown.

XX.XX is the value of coins in all tubes.

SOFTWARE REVISION POSO LOY.OO C117 C217

Press ENTER

PO30 is the software version of the Microprocessor on the logic board. (large chip).

L04.00 is the software version of the Flash Memory chip on the logic board. (small chip).

Ell7 is the software version of the Flash Memory chip on the Food Driver Board (small chip) in cabinet 1. E2l7 is the software version of the Flash Memory chip on the Food Driver Board (small chip) in cabinet 2.

SETUP VIEW MIS HTOT SALES – Y

Press ENTER and the display will prompt you with the first viewable MIS item:

Use the < or > key to scroll through the list of viewable MIS items. Press the + key to toggle the $\mbox{\ensuremath{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\ensuremath{\$

When you have finished making changes press ENTER for the changes to take effect.

The MIS data is incremented as follows:

				Vend Type			
Field	Normal	Discount Winner	Token or Winner	Discount & Winner or Token	Combo	Testvend	Freevend
#VENDS	•	•	•	•	•		•
\$VENDS (Sale Price)	• Thi	s documer	nt is a ⁰ vaila	ble foee of	•		0
#/PROD	•	ob orgina to	our ouaton		•		•
\$/PROD (Sale Price)	•	charge to	0.5101	0	•		0
#/TESTVEND	V	rww.auton	raticprodu	cts.com		•	
#/DISCOUNT		•		•			•
\$/DISCOUNT (Amount)		•		•			• (List)
#/WINNER			•	•			
\$/WINNER (Sale Price)			•	•			
#/COMBO					•		
\$/COMBO (Discount)					•		

[•] Indicates which field is updated for a given vend type.

(List Price - Discount Amount if any = Sale Price)

Note: \$Winner accumulates sale prices of Winners. If the Winner is also Discounted, the vend is counted in #Discount and the discount is accumulated in \$Discount.

M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU

setup menu heading

The Setup Menu heading contains all the Setup Menu Items in the machine.

Pressing ENTER when the display indicates Setup will cause the display to be updated with Bill Escrow.

Use the < or > arrow keys to scroll through the following menu items:

Bill Escrow Free Vend Winner Vend Multiple Vend Force Vend Combo Vend Max Payout Set Payout Type

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

BILL ESCROW - N Use the + or - key to change between N, FIRST or LRST. Press ENTER to commit to any changes.

N - Disables bill escrow and all bills will be stacked. Pressing the coin return the customer will receive all

First - Holds the first bill in escrow and pressing the coin return will return the bill. (All other money added will need to be coin).

Last - The machine will accept bills to the highest vend price, pressing the coin return will return the last bill and all other bills inserted will be returned in change.

Note: Force vend overrides bill escrow.

FREE VEND-N

Use the + or - key to change between $^{\rm N}$ (no) and $^{\rm U}$ (yes). Press ENTER to commit to any changes. When Free vend is set to yes the display will prompt "RLL ITEMS ARE FREE" unless overridden by a custom point of sale message.

LINNER LEND -OFF To turn on Winner vend, enter a number between 1 and 500 using the selection key pad or the + and keys. Off is between 1 and 500. Press ENTER to commit to changes.

When a customer wins an item, credit will be returned to the customer and the display will indicate ****JINNER*** . Note: When a machine is set to free vend, test vend or the second vend of a combo vend are not counted for the purposes of determoning a winner.

FIGURE VEND-IN Use the + or - key to change between \mathbb{N} (no) and \mathbb{Y} (yes). Press ENTER to commit to any changes. If you choose \(\frac{1}{2} \) the display will prompt:

Timeout - 20

This is the amount of time the customer has to make another selection before their change is returned. During this time period the customer can make a selection, add more money to make another selection or press the coin return to receive their change. If the change due back is lest than the lowest priced item in the machine, change will be returned immediately. This time is period is settable from Five to Ninety seconds. To change the time use the selection key pad or the + and - keys. Press ENTER to commit to the time period.

FORCE VEND - N

Use the + or - key to change between \mathbb{N} (no) and \mathbb{Y} (yes). Press ENTER to commit to any changes. When Force vend is turned on, once there is enough credit established to purchased the lowest priced item in the machine, the customer must make a purchase.

Note: Force vend overrides bill escrow and does not apply when debit cards are used.

Conso Veno - N 105 - TUO3NIT

Use the + or - key to change between \(\text{(no)} \) and \(\text{(yes)} \). Press ENTER to enter the combo vend menu item. This is the amount of time the customer has to add more money and/or make the second selection of a combo vend.

This time is period is settable from Five to Ninety seconds. To change the time use the selection key pad or the + and - keys. Press ENTER to commit to the time period.

IN XXX-999 Free N Use the < or > to move the flashing cursor between the fields.

01 is the combo #. Use the + or - key to scroll through the combo #, a maximum of ten is supported **XXX-YYY** - XXX is the item selected by the customer, YYY is the item to be vended in combination with the customer-selected item.

Free is the discounted price of YYY when selected after XXX is selected. Any price can be set for the second item including free. To set the price use the selection key pad or the + and - keys. Free is located below 00.05 cents.

N - Use the + or – key to toggle between $\[^{\text{N}}$ (not active) and $\[^{\text{U}}$ (active). This allows you to program in combo vends and turn then on and off as desired.

CONFIGURATION MENU DIAGNOSTIC MENU SECURITY MENU M I S MENU SETUP MENU TIME FUNCTIONS PRICE MENU DISPLAY MENU

setup menu heading

Max Payout - N

Use the + or - key to change between $\[\]$ (no) and $\[\]$ (yes). Press ENTER to commit to any changes.

Max Payout - 01.00

When to choose $\footnote{!}$ the display will show the maximum amount of money to be paid back after a vend. To change the Maximum payback amount use the selection key pad or the + and - keys. Press ENTER to commit to the Maximum payback amount.

Payout - Leveling

There are 3 payback options are fewest, MDB level 3 and leveling. Use the + or – key to change between the 3 different options. Press ENTER to commit to a payback option. Here is a discription of the three payback options:

Fewest - This option is the factory default and will always payback the least number of coins available based on the sensors in the coin mech.

Leveling - The board makes all the payback decisions based on how much money it thinks is in each tube. When using this option it is important that you teach the board how much money is in the coin mech (use "Tube fill" menu item) when you set up the machine.

MDB Level 3 - The changer makes all the pay back decisions based up how much money it thinks is in the tubes. This option will only work with MDB coin mechs. All payback options will work with MDB also, you are not limited to this option with MBB coin mechs.



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M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU

configuration menu heading,

The Configuration Menu heading contains all the Configuration Menu Items in the machine.

Pressing ENTER when the display indicates Configuration will cause the display to be updated with Motor Pairs.

Use the < or > arrow keys to scroll through the following menu items:

Motor Pairs Configure Load Set Temperature Set Function Keys Spiral Count Setup Printer Set Lockout Set Free Coupon Set Defrost Speech Enable

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

flotor Pries Allows you to pair any even numbered motor may be paired with the odd numbered motor next in (320 only) sequence.

PRIR FLOTOR 110 11 To pair motors Press the > one time this will cause the 11 (no) to start flashing.

Press the + key, this will change the $^{\rm N}$ to $^{\rm U}$ (yes).

Press the < one time this will cause the last digit in the selection number to start flashing.

Key in on the selection pad the selections to be paired. After each selection number that is keyed in you will here a beep. The beep indicates that the selection number has been accepted. Pressing C\CE at any time will clear the display as if it were a backspace key.

To remove motor pairs follow the same procedure but key in the selections with the state of the motor set to \mathbb{N} (no).

Configuration Load

Allows the uploading or downloading of information to or from the logic board. Press ENTER and the display will prompt MasterMenu online. Use the + or - key to scroll through the following options:

MasterMenu Online - is software that allows you to program a machine with a Personal Computer. See the options section of this manual for more information.

TMU Upload - allows you to upload programing information to a machine for a touch memory button (chip) that has already been programed.

TMU Download - allows you to download programing information to a touch memory button (Chip), for more information on chip see the options section of this manual.

Press ENTER to start the upload or download process. Upon completion the display will prompt that the download is complete. If the information can't be transferred the display will prompt transfer error or transfer disconnect.

SET TEMPERATURE Press ENTER, the display will prompt:

ERBI RABIENT --- F Cab1 (Cabinet 1) - Use the + or - to change between cab1 and cab 2 (cabinet 2).

Use the > to move the flashing digit to Ambient.

Use the + or – to change between:

Ambient (outside air temperature)

Food - the target temperature (---) will automatically change to of +36 degrees Fahrenheit. The temperature is not adjustable when set to food.

Frozen - the target temperature (---) will automatically change to of + 10 Fahrenheit. Use the + or - to change between + 10 and -15 Fahrenheit.

Chilled - (Appears only when cabinet 1 is a snack or 128/129 Cabinet) the target temperature (---) will automatically change to of + 70 Farenheit. Use the + or - to change between + 70 and +40 Farenheit.

F = Fahrenheit, use the + or - to change between F and C (Celsius)

Press ENTER to commit to a temperature setting.

MISMENU SETUP MENU CONFIGURATION MENU DIAGNOSTIC MENU SECURITY MENU TIME FUNCTIONS PRICE MENU DISPLAY MENU	M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
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configuration menu heading

SET FUNCTION KEYS Allows you to change the function keys F1-F7 or F1-*F7 to any of 30 pre defined function keys.

Press ENTER and the display will prompt:

F1 - f115 Use the < or > to move the between the function key and the Menu Item.

Use the + or - to change the function key or menu item assigned to that key.

Press ENTER to commit to any changes.

Note: Function keys can be reset to the factory defaults in the machine reset menu item.

The pre-defined functions available for assignment are:

Function	Initial Function Key
VIEW HISTORICAL MIS	F1
VIEW ERRORS	F2
CLEAR ERRORS	F3
SET PRICE	F4
CHECK PRICE	F5
TEST VEND	F6
TUBE FILL	F7
MOTOR PAIRS	*F1
SET TEMPERATURE	*F2
SET TIME & DATE	*F3
BILL ESCROW	*F4
BAFFLE DOOR TEST	*F5
TRASMIT MIS	* F 6
SETUP DEFROST	*F7
WINNER VEND	OPEN
MULTI VEND	OPEN
COMBO VEND	OPEN
SET MAX PAYOUT	OPEN
SET PAYOUT TYPE	OPEN
SET LOCKOUT	OPEN
CONFIGURE LOAD	OPEN
MOTOR TEST	OPEN
DISCOUNT DAY / TIME	OPEN
DISCOUNT OPTIONS	OPEN
SHUTDOWN DAY / TIME	documenOPEN vailable fr
SHUTDOWN OPTIONS	OPEN
SET USER MESSAGES	OPEN
OUT OF SERVICE MESSAGE	/w.autom OPEN) roducts.co
AFTER SALE MESSAGE	OPEN
SET SCROLLING	OPEN
SET MENU ORDER	OPEN
SERIAL NUMBER	OPEN

M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
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configuration menu heading

SET SPIRAL COUNT- N

This menu allows you program the number of spaces in each spiral. When a selection has vended all the product out of and individual spiral the machine will prompt make another selection and will beep 6 times. When the Set Spiral count is enabled and the door is opened to service the machine the display will prompt "Stock Machine N?", to reset the spiral count toggle the \mbox{N} to \mbox{U} and press ENTER. Note: you must fill all selections each time you service the machine, change the spiral count or turn off spiral count for each selection not being completely filled to work properly.

This menu was implemented for locations with visually impaired customers. Some operators have also used this menu when vending high priced items.

Use the + or - key to change between $\[^{\mathbb{N}}$ (no) and $\[^{\mathbb{U}}$ (yes). Press ENTER to commit to any changes. When Spiral Count is set to yes the display will prompt:

SPIRAL 110 00 N

Press the > two times to N (no)

Press the + or – key one time to $\footnote{1}{3}$ (yes) Press < one time to 00 (spiral count)

Use the selection buttons to key in the desired count.

Press < one time to 110 (selection number)

Using the selection buttons, enter the selections to be set for the spiral count shown.

Repeat the above process for all additional spiral counts to be set.

Setup Printer Brud - 9600 N81 Press ENTER to change the baud rate, parity, data, and stop bits.

Use the < or > key to scroll through baud rate, parity, data, and stop bits. Press the + or - key to

change the flashing digit.

The available parameters are:

Baud rate 300 1200 2400 6900 19200

Parity None (N) Even (E) Odd (O)

Data Bits Eight (8) Seven (7)
Stop Bits One (1) Two (2)

SET LOCKOUT -N

Allows you to lock out specific selections when an external key switch is activated.

To enter lockout menu:

Press the > one time to N (no)

Press the + or - key one time to \$\mathbb{Y}\$ (yes)

Press ENTER and the display will prompt:

Lockout Sel 11<u>0</u> N

Press the > one time to N (no)

Press the + or - key one time to \$\mathbb{Y}\$ (yes)

Press < one time to № (selection number)

Use the selection buttons to key in the selections to be locked out when the external key switch

is activated. Note: Wild Cards can be used when entering selections.

SET FREE COUPON - $\frac{N}{N}$

Use the + or – key to change between \mathbb{N} (no) and \mathbb{Y} (yes) and press ENTER the display will prompt:

Press the > one time to \mathbb{N} (no)

Press the + or - key one time to y (yes)

Press < one time to 110 (selection number)

Use the selection buttons to key in the selections to be free when a coupon is used.

Note: Wild Cards can be used when entering selections.

M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
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configuration menu heading

SET DEFROST

Allows you to customize target defrost time for cabinets 1 and 2. It is not necessary to set this menu it is a target defrost time only. Press ENTER ant the display will prompt:

CAB 1 00:00 AT 6HRS

Press the + or - key to change the flashing digit. Use the < or > key to scroll through the following: **Cab1** - Use the + or - key to Toggle between Cab1 (cabinet 1) and Cab2 (cabinet 2).

□□:□□ (midnight) - Is the target time for the defrost cycle. Use the + or – key or the selection key pad to change the target time for the defrost cycle.

6hrs - This is the amount of time between defrosts. Use the + or - key to toggle between 6 hours and 8 hours.

Note: Pressing F2 on the keypad will initiate a manual defrost for the cabinet currently being displayed.

Speech Synthesis - N

Use the + or - key to change between $\[^{\mathbf{N}} \]$ (no) and $\[^{\mathbf{U}} \]$ (yes). When $\[^{\mathbf{U}} \]$ is chosen a Voice Synthesizer can be connected to the DEX/UCS port. The Voice Synthesizer will echo the display while in the service mode.

Note: When Speech Synthesis is enabled, the DEX/UCS port can no longer be used for any other communications.



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M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
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diagnostic menu heading.

The Diagnostic Menu heading contains all the self-diagnostic capabilities of the machine.

Pressing ENTER when the display indicates Diagnostics will cause the display to be updated with View Errors.

Use the < or > arrow keys to scroll through the following menu items:

View Errors Clear Errors Test Vend **Test Motors Test Baffle Door**

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

VIEW ERRORS

Pressing ENTER to will cause the first of any pending errors to be displayed. Use the < or > to sequence through the error list. Pressing F2 when viewing any error will cause the time and the date the error occurred to be shown on the display.

The following lists the possible error codes;

•	MOTOR	XYZ	SIA	LLE	D
_	MOTOD	W	OTI	1017	

MOTOR XYZ STUCK HOME

MOTOR XYZ DIDNT HOME

• MOTOR XYZ OFF HOME MOTOR XYZ MISSING

CAB X DEFROST ERROR

BAFFLE X CURRENT

BAFFLE X TIMEOUT

• HEALTH SHUTDN CAB X

CLEAR	ERRORS	_	N
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Use the + or – key to change between \((no) \) and \((yes) \). Pressing ENTER, when set to \(\) will

cause all errors to be cleared.

TEST VEND - N

Use the + or – key to change between \(\text{(no)} \) and \(\text{(yes)} \). Pressing ENTER, when set to \(\text{\texet{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi{\texi{\texi}\tex{\text{\tex{\texi}\texi{\texi{\texi}\texi{\texi{\texi{\texi{\texi{\texi{\tex

cause the display to prompt:

TEST VEND ACTIVE

The Selection buttons will become active allowing test vends. Closing the door will automatically

turn Test Vend off.

Test Motors

Press ENTER will prompt: Test Motor - 110

Key in any selection number to be tested. To test the entire cabinet key in 1** for cabinet 1. or 2**

for cabinet 2. The test will show Motor XXX Passed /Failed for 3 seconds for every selection

tested. This is a motor detection test and does not vend the motor.

Test Breeze Doors Open door - East

Pressing ENTER will cause the display to prompt:

Use the < or > arrow to move between Open Door and Cab1.

Open Door - Use the + or – to toggle between open door and close door.

Cab1 - Use the + or - to toggle between Cab1 (cabinet 1) and Cab2 (cabinet 2).

Pressing ENTER will cause the baffle door to perform the test shown on the display.

security menu heading

Pressing ENTER when the display indicates Security will cause the display to be updated with Machine ID.

Use the < or > arrow keys to scroll through the following menu items:

Machine ID Serial Number Password Definition Password Prompt Set Security Levels

Set Product Codes Machine Reset

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Dis	play
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Password Pronet - N

Machine Id	Press ENTER to assign	a machine ID number.

1234567890 Use the selection keypad to enter a Machine ID number up to 10 digits long.

Press ENTER to commit to any changes.

SERIAL NUMBER Press ENTER to assign a machine Serial number.

Use the selection key pad to enter a Serial number up to 10 digits long.

Press ENTER to commit to any changes.

PRSSWORD DEFINITION The four levels of security they are:

SuperUser - highest security level

Level 1 - SuperUser and level 1 have access

Level 2 - SuperUser , level 1 and level 2 have access

Level 3 - this is the lowest level of security and no password can be assigned.

Press ENTER to change the factory passwords to custom passwords. The display will Prompt:

PRSSWORD 2 2222 Use the < or > arrow to move between the security level and the password.

The + or - key will toggle the flashing digit or use the selection keypad to change the numeric

digits. Press ENTER to commit to the password for the security level shown on the display. Use the + or - key to change between $\[\]$ (no) and $\[\]$ (yes). Pressing ENTER, when set to $\[\]$ will

cause the password prompt to be displayed as soon as the user attempts to press ENTER. If the

password prompt is set to \(\) (no) and menu items have been assigned security levels, the user must know to press ENTER, then escape to get the password prompt to appear on the display.

Set Security Level for each Menu Heading and Menu Item. Note:

Setting a Menu Heading to a Security Level will also hide all Menu Items under the Menu Heading.

The four levels of security they are:

SuperUser (S) - highest security level.

Level 1 - SuperUser and level 1 have access.

Level 2 - SuperUser, level 1 and level 2 have access.

Level 3 - this is the lowest level of security and no password can be assigned.

Use the + or – key to change between $^{\rm N}$ (no) and $^{\rm L}$ (yes). Pressing ENTER, when set to $^{\rm L}$ will

cause the display to prompt:

IIIS 3 MIS - Is the first Menu heading. Use the < or > to scroll through the Menu Headings and Menu Items.

3 - is the current security level for the Menu Heading or Menu Item shown on the display. Use the

+ or - keys to change the security level. Press ENTER to commit to security level changes.

FRETORY TEST - N

Use the + or - key to change N (no) to Y (yes) & press ENTER to test all spirals in the machine.

The machine will begin to vend all spirals in sequence. If a motor is not present or bad the

machine will beep three times and display the bad motor. To continue with the test press ENTER.

PRODUCT CODES - MRMURL This menu allows you to choose the format the DEX/UCS information is transferred.

Use the + or - key to change between flamual & fluto, press ENTER to Set.

TRNURL - The DEX/UCS information is transferred by Product Code.

Product Codes can be assigned to a selection or number of selections. See Price setting

instructions for details on manually setting product codes.

Rutto - The DEX/UCS information is transferred by selection (How many times each selection

was vended).

This menu allows you to reset the machine. The Four Reset options are as follows:

Messages - Resets all messages back to factory defaults.

Options - Resets all set up options to factory defaults.

MIS Data - Resets all MIS (accountability) data, interval and historical to zero.

F Keys - Resets all the function keys F1-F7 and *F1-*F7 to factory defaults. **All** - Resets the entire board to the factory defaults of software in the board.

Use the + or – key to change between $^{\rm N}$ (no) and $^{\rm L}$ (yes). Pressing ENTER, when set to $^{\rm L}$ will

cause the display to prompt:

RESET - I'll S Use the + or - key to change between the five reset options. Press ENTER to commit to the reset option.

The display will prompt:

RRE YOU SURE - N Use the + or - key to change N (no) to Y (yes) & press ENTER to commit to a reset.

M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU

time functions menu heading.

The Time Functions Menu Heading contains all the programmable time functions in the machine.

Pressing ENTER when the display indicates Time function will cause the display to be updated with Set Discount Times.

Use the < or > arrow keys to scroll through the following menu items:

Set Discount Times Set Discount Options Set Time / Date

Set Shutdown Times Set Shutdown Options

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

SET Discount times Disc 01 00:00-00:00 Press ENTER, the display will prompt:

Disc 01 is the Discount period. You can set up to 10 different Discount periods. The < or > arrow

keys will change which digit is flashing and the + or – key will toggle the flashing digit.

00.00-00.00 is the time settings for the Discount. The number on the left is the time the Discount will start. The second number is the time the machine resumes normal pricing. 00.00 is midnight and all times must to be set in Military time. The times set can not be set to cross over midnight, if you are setting a machine to be Discount all night long you will need to set two Discount periods. Example: If a machine is to be Discounted from 7PM to 7AM the two Discount periods

would be set as follows: Disc 01 19:00-23:59 Disc 02 00:00-07:00

"SMTUTES"

Pressing ENTER when viewing a Discount will change the display to: Uppercase letters indicate that the Discount will be active that day.

The < or > arrow keys will change which digit is flashing and the + or - key will toggle the flashing digit between uppercase and lowercase. Pressing ENTER will apply the days of the

week as they are currently set on the display.

Example: sMTWTFs = Monday through Friday the machine will Discount, Saturday and Sunday

the machine will not Discount.

When all discount times are set:

a. Press ESC to Exit back to the Menu item Set Discount Times.

b. Press the > key one time to:

SET DISCOUNT OPTIONS

Press ENTER. The Display will prompt:

DISCOUNT ITEMS 01 0.00 N 01 is referring to Discount period 1 programmed above.

0.00 is the amount of discount for all items selected for discount period 01 (example 0.05 will

reduce a 0.50 cent item to 0.45 cents.

the N (no) or Y (yes) indicated the current status of Discount period 1. Use the + or - keys to

toggle between N and S. Press "ENTER" the display will prompt:

01 Discount - 110 N

Press the > one time to \mathbb{N} (no)

Press < one time to 110 (selection number)

Use the selection buttons to key in the selections to be dicounted when the discount period

above is activated. Note: Wild Cards can be used when entering selections.

time functions menu heading

Set Time/Date 13:10 18.Jan. 00 Press Enter to set the time and date. The Display will prompt.

13:10 (1:10 PM) is the current time, all times are in military time.

18, Jan, 00 is the 18th day of January 2000.

The < or > arrow keys will change which digit is flashing and the + or – key will toggle the flashing digit or use the selection keypad to change the numeric digits. Press ENTER to commit to the time shown on the display.

SET Skutdown TIMES Skut <u>01</u> 00:00-00:00"

Press ENTER, The display will prompt:

Shut 01 is the Shutdown period. You can set up to 10 different Shutdown periods. The < or > arrow keys will change which digit is flashing and the + or - key will toggle the flashing digit. **00.00-00.00** is the time settings for the Shutdown. The number on the left is the time the Shutdown will start and the machine will be disabled. The second number is the time the machine will turn back on. 00.00 is midnight and all times must to be set in Military time. The times set can not be set to cross over midnight, if you are setting a machine to be Shutdown all night long you will need to set two Shutdown periods.

Example: If a machine is to be Shutdown from 7PM to 7AM the two Discount periods would be set as Follows: "SHUT 01 19:00-23:59 SHUT 02 00:00-07:00

SMTUTES

Pressing ENTER when viewing a Shutdown will change the display to:

Upper case letters indicate that the Shutdown will be active that day.

The < or > arrow keys will change which digit is flashing and the + or – key will toggle the flashing digit between uppercase and lowercase. Pressing ENTER will apply the days of the week as they are currently set on the display.

Example: sMTWTFs = Monday through Friday the machine will Shutdown, Saturday and Sunday the machine will not Shutdown.

When all Shutdown times are set:

- a. Press ESC to Exit back to the Menu item Set Shutdown Times.
- b. Press the > key one time to:

SET SHUTDOWN OPTIONS SHUTDOWN ITEMS OT N

Press ENTER. The Display will prompt.

ITEMS 01 is referring to Shutdown period 1 programmed above.

The $\[\]$ (no) or $\[\]$ (yes) indicates the current status of Shutdown period 1. Use the + or - keys to toggle between $\[\]$ and $\[\]$. Press ENTER, the display will prompt:

Note: If you are in a school and want to turn off the Shutdown feature for the summer and leave the times programmed, you can do this by changing the current status to N.

O1 Sautooun -110

Press the > one time to N (no)

Press the + or - key one time to ⅓ (yes)

Press < one time to 110 (selection number)

Use the selection buttons to key in all selections to be shutdown for the shutdown period above.

Wild Cards can be used when entering selections.

NOTE: The Selections to be Shutdown must be selected for each Shutdown period.

If all selections are to be Shutdown, the display will prompt machine not available until the time the machine is programmed to turn back on. If only specific selections are to be Shutdown the display will prompt Selections (Selection numbers) not available until whatever time it is programmed to turn back on.

	M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU
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price menu heading

The Price Menu Heading contains all the pricing functions in the machine.

Pressing ENTER when the display indicates Price will cause the display to be updated with Price Assignment.

Use the < or > arrow keys to scroll through the following menu items:

Price Assignment

Check Prices

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

PRICE ASSIGNMENT

Press ENTER to set prices, the display will prompt:

110 00.50 001

110 - is the selection number, 00.50 - is the price, 001- is the product code.

Press the > one time to price, use the selection buttons key in the price to be set.

Note: if you are using product codes press the > one more time to price, use the selection buttons key in the product code to be set

buttons key in the product code to be set.

Press the < back to the selection number, use the selection buttons key in selections to set at

the price and product code shown.

Repeat the above process for all prices to be set.

CHECK PRICES 110 00.50 001 Press ENTER to check prices currently set the display will prompt:

Use the selection buttons to key in a selection number, the current price and product code will

appear on the display.

This document is available free of charge to our customers at www.automaticproducts.com The Display Menu Heading provides access to all the Display Menu Items in the machine.

Pressing ENTER when the display indicates Display will cause the display to be updated with Set Menu Order.

Use the < or > arrow keys to scroll through the following menu items:

Set Menu Order Alt Language Set User Messages Set Out of Service Message Set After Sale Message

Pressing ENTER when any of the above items are on the display will give you access to that Menu Item.

Below is a detailed list of each of the above Menu Items:

Display

SET MENU ORDER This menu allows you to change the order that the Menu Headings appear on the display.

Press ENTER the display will prompt:

INENU 1 - MIS Use the < or > keys to move between the Menu number and the Menu Heading. Use the + or -

key to scroll through the available menus or to change the menu number.

Press ENTER to commit to changes in the menu order.

ALT LANGUAGE - N

This menu allows you to use an alternate language for all messages. Use the + or – key to

toggle between Y and N.

N - indicates all messages will be shown in English.

Y - Indicates all messages will be shown in the alternate language programmed by MasterMenu

Online.

Press ENTER to commit to any changes.

SET USER MESSAGE

Use this menu to program up to three different user messages. Press ENTER and the display

will prompt:

POS-<u>E</u> EDIT

Use the < or > keys to move between the fields.

Use the + or – key to toggle between: **POS-F, POS-A, POS-B and POS-C.**

POS-F stands for the factory message; this message is not changeable.

POS-A/B/C are the three messages that can be programmed.

Pressing the ENTER key when the display prompts POS-A Edit allows you to program message

A. The display will prompt:

USER MESSAGE # 1

Note: this is a two step process, first you need to Edit (program) a message (s) then you need to set the message to be active.

To Edit the current message:

Use the + or - keys to scroll through the Upper and Lower case letters, the numbers 0-9 and a number of special characters including a blank space. Use the <or> to move the flashing cursor to the left or right. Start your message by overwriting the current message (User Message #1). Pressing the INS (insert) key will allow you to insert a character to the left of the flashing digit.

Pressing the Del (delete) key will delete the flashing character. When the message is complete

press ENTER. There is no start or end character required. **Note: this message will be stored and must be set for the message to become active.**

To Set a Message:

POS-R SET

Use the + or – key to toggle the display to the message to be set (F, A, B or C).

Press the > one time and the T in the word edit will start flashing.

Press the + or - key one tome and the word set will appear.

Press ENTER and the POS message shown will be set.

Note: if the message contains more characters than can be shown on the display the display will scroll. If the message is shorter than the display and you still want it to scroll you need to add blank spaces to the end of the message until the message starts to run off the display.

M I S MENU	SETUP MENU	CONFIGURATION MENU	DIAGNOSTIC MENU	SECURITY MENU	TIME FUNCTIONS	PRICE MENU	DISPLAY MENU

display menu heading

SET OUT OF SERVICE

This menu allows you to set an out of service message. The out of service message is added on to the end of the machines out of service message.

Press ENTER and the display will go blank with a flashing cursor.

Use the + or - keys to scroll through the Upper and Lower case letters, the numbers 0-9 and a number of special characters including a blank space. Use the <or> to move the flashing cursor to the left or right

Press ENTER and the Out of Service message shown will be set.

SET RETER SALE MESSAGE This menu allows you to set an After Sale Message. Start your message by overwriting the

current message

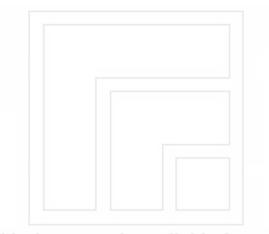
(Thank You Very Much).

Press ENTER and the display will prompt:

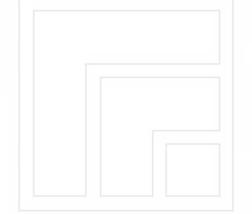
THANK YOU VERY MUCH

Use the + or - keys to scroll through the upper and lower case letters, the numbers 0-9 and a number of special characters including a blank space. Use the <or> to move the flashing cursor to the left or right.

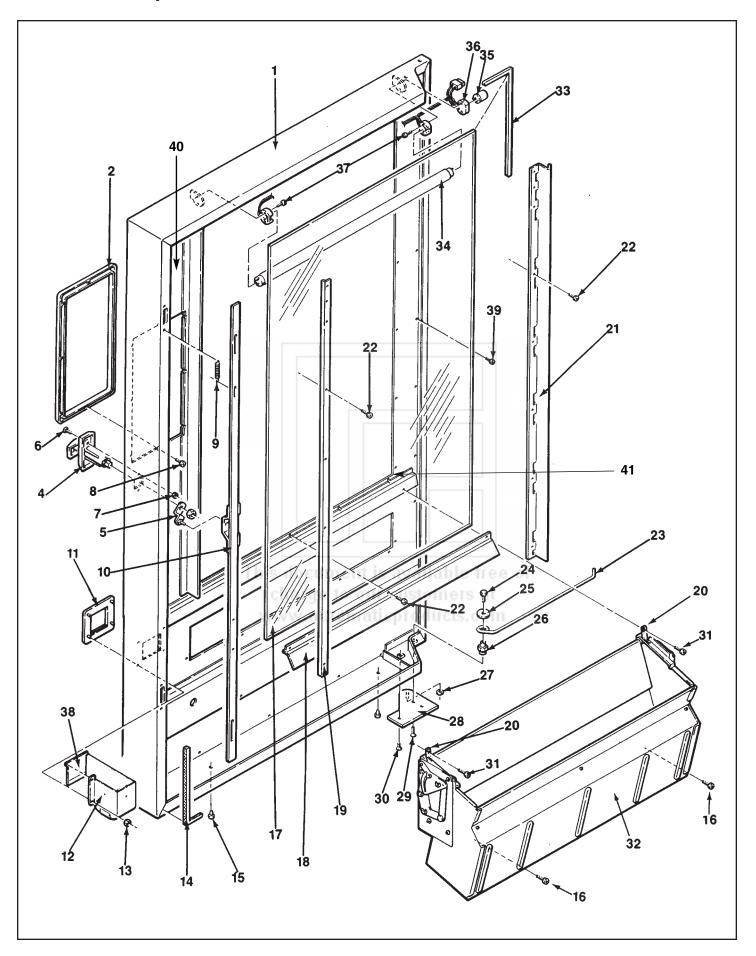
Press ENTER and the After Sale Message shown will be set.



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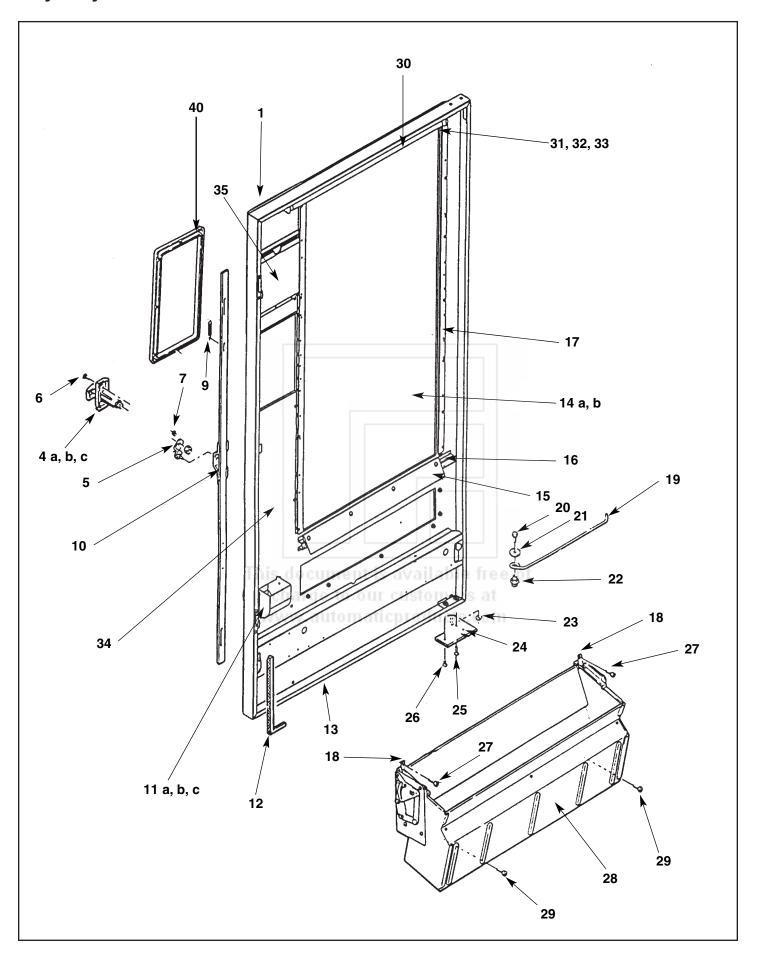


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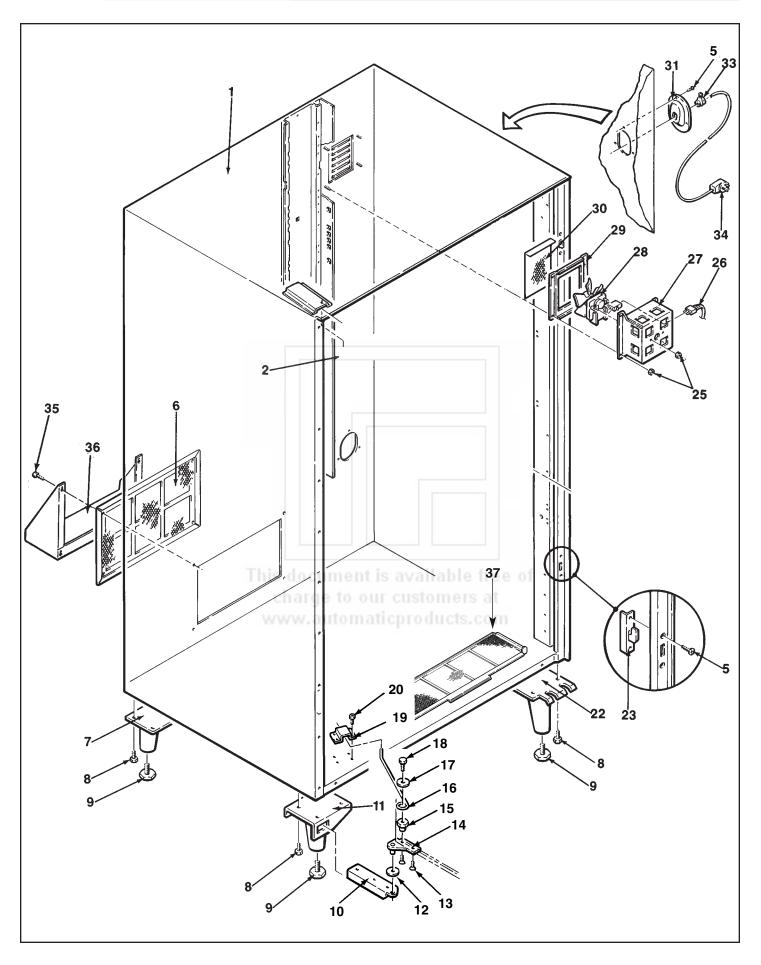


inner door, square & euro

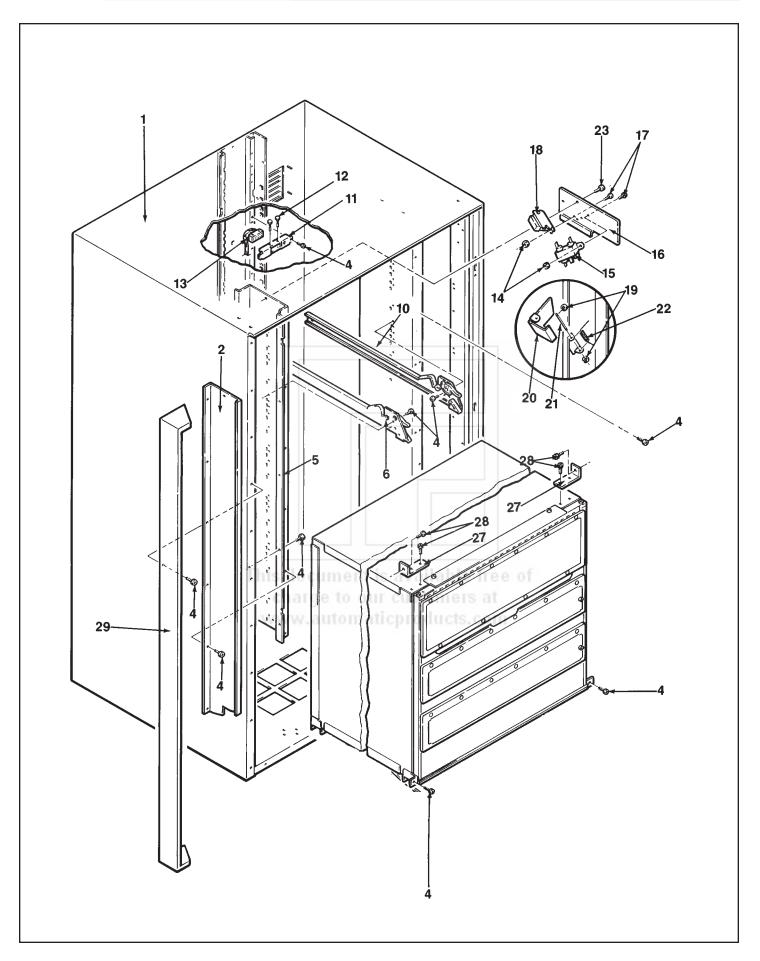
Cey	Part	No.		K	ey	Part	No.	
х с у	128	129	Description		~ y	128	129	Description
1	600808	600810	Door Only Square, Specify Color	2	8	640157	640154	Lower Door Hinge Plate Assembly,
	600809	600811	Door Only Euro, Specify Color					Specify Color
	600808-1	600810-1	Door Only Square, with Validator and	2	9	420003	420003	Flat Head Socket Screw 3/4 lg.
			Debit Card Cut Out, Specify Color	3		420003-1	420003-1	Flat Head Soket Screw 1/2 lg.
	600809-1	600811-1	Door Only Euro, with Validator and Debit	3		217-8R10	217-8R10	Screw, Pan Head, Phillips #8 x 5/8
	000000 1		Card Cut Out, Specify Color	3		660558-6	660558-5	Delivert Bin, Assembly Complete. See
2	440444	440444-2	Trim Ring, Black					Page 5.19 for Itemized Parts
_	440441-1	440444-3	Trim Ring Gray	3	3	420436	420436	Window Edging, Order per Inches
4	660319-1	660319	T-Handle and Lock Arm Assembly (4 & 5) Chrome	١		0.00	0.00	(128 = 134", 129 = 143")
'	16600254-01		T-Handle and Lock Arm Assembly (4 & 5) Brushed	3	4	380022-5	380022-5	Fluorescent Lamp F18T8/CW/K24
	420146	420146	T-Handle Only W Nut, Chrome	3		380023	380023	Starter FS-25
	17200002	17200002	T-Handle Only W Nut, Brushed	3		680512	680512	Lamp Harness Assembly
5	640123	640131	T-Handle Lock Arm	3		420062-1	420062-1	Screw, Slot Machine, #4-36 x 3/4
6	118-10-8	118-10-8	Carriage Bolt #10-24	3		440412	440412	Coin Cup Door
7	404-10	404-10	Hex Nut, #10-24	ľ	~ I	300212	300212	Pivot Pin
8	276-6R6	276-6R6	Screw Pan Head Phil. Type 23 #6-32 x 1/4			400108	400108	Spring, Coin Cup Return Door
	400112	400112	Lock Bar Spring	ء ا	9	200-6R6	200-6R6	Trim Screw 6-18 x 3/8
9 10	600243-3	600243-3	Lock Bar Spring	4	- 1	460756	460756	Decal Function Keys
11	440411	440411		"	.0	400730	400750	Decail discion Reys
11	440411	440411	Coin Cup Trim, Black					
			Coin Cup Trim, Gray					
	660581	660581	Coin Cup Front Assembly, Black.					
	000504.4	000504.4	Includes Trim, Door, Pin & Spring					
	660581-1	660581-1	Coin Cup Front Assembly, Gray.					
	440440		Includes Trim, Door, Pin & Spring					
12	440413	440413	Coin Return Cup Only, Plastic					
	440414	440414	Coin Cup Chute		-			
	660683	660683	Assembly Coin Cup & Striker, Export		П			
			Coin Cup Only, Export		Ш			
			Striker, Door Switch, Export		Ш			
			Striker with Spring, Door Switch	-	Ч			
3a	420144	420144	Ferral		-			
3b			Washer	avai	ila	ible fre	e of	
I3c								
14	460041	460041	Door Gasket 1/4 x 1/4	Lusu	91	ileis at		
15	420040	420040	Hole Plug	D100	d u	cts.cor	n	
16	276-8R6	276-8R6	Screw Pan Head Phil. Type 23 #8-32 x 3/8					
17	750140	750141	Front Window, (44-5/8 x 9/16 x 1/8)					
			(44-5/8 x 26 7/8 x 1/8)					
			Note: Replacement Glass Must Be Hard					
			Tempered or Lexan Only					
	14500002	14500003	Thermal Window, Optional (can only be					
			used on a chilled machine ordered from					
			the Factory with a thermal window installed)					
18	201385	201384	Bottom Window Clamp					
19	202118	202118	Window Clamp, Lock Side					
20	200906	200906	Bin Achor Strap					
21	201389-3	201389-3	Sheild & Window Clamp, Pivot Side					
22	201-6R11	201-6R11	Screw, Phillips Type B, #6 x 11/16					
23	400090	400095	Door Stop Rod					
24	114-41-8	114-41-8	Screw, Hex Head 1/4-20 x 1/2					
25	420010-10	420010-10	Washer 1 1/8 OD					
		300156	Door Stop Anchor					
	1300151 I							
26 27	300151 420010-19	420010-18	Washer, Brass					



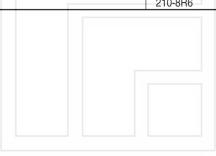
Tall No. 128 129 Description 128 129 129 128 129 1	Description
16000037-01 16000043-01 Door Only, Odyssey Thermal Trim Ring, Odyssey T-Handle and Lock Arm Assembly (includes 4a, 4b & 5) T-Handle Only w/Nut Spacer, T-Handle Lock Arm Spacer, T-Handle Lock Arm Carriage Bolt #10-24 Nut Hex, #10-24 Lock Bar Spring Lock Bar Assembly Lock Bar Assembly Coin Cup Coin Cup Door Coin Cup Axle Pin Door Gasket Foam 1/4 x 1/4 Hole Plug Front Window (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be T-Handle T-Handle Lock Arm T-Handle Lock Arm Carriage Bolt #10-24 Nut Hex, #10-24 Lock Bar Spring Lock Bar Assembly L	
16000037-01 16000043-01 Door Only, Odyssey Thermal Trim Ring, Odyssey The Ring, Odysey The Ring, Odyssey The Rin	
4a 16600113 16600114 T-Handle and Lock Arm Assembly (includes 4a, 4b & 5) 4b 38332-1 38332-1 T-Handle Only w/Nut 4c 22000190 22000190 Spacer, T-Handle 5 16400013 16400012 T-Handle Lock Arm 6 118-10-8 118-10-8 Carriage Bolt #10-24 7 404-10 404-10 Nut Hex, #10-24 9 400112 Lock Bar Spring 10 600432-3 16000093 11a 16000051 16000051 11b 38529 38529 11c 38530 38530 12 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 14a 750141-1 Front Window (44 5/8 x 21 9/16 x 1/8) Note: Replacement Glass Must Be	
Sample Control Contr	
4b 38332-1 38332-1 T-Handle Only w/Nut 4c 22000190 22000190 Spacer, T-Handle 5 16400013 16400012 T-Handle Lock Arm 6 118-10-8 118-10-8 Carriage Bolt #10-24 7 404-10 404-10 Nut Hex, #10-24 9 400112 Lock Bar Spring 10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
4c 22000190 22000190 Spacer, T-Handle 5 16400013 16400012 T-Handle Lock Arm 6 118-10-8 118-10-8 Carriage Bolt #10-24 7 404-10 404-10 Nut Hex, #10-24 9 400112 Lock Bar Spring 10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 14a 750141-1 Front Window (44 5/8 x 21 9/16 x 1/8) Note: Replacement Glass Must Be	
5 16400013 16400012 T-Handle Lock Arm 6 118-10-8 118-10-8 Carriage Bolt #10-24 7 404-10 404-10 Nut Hex, #10-24 9 400112 Lock Bar Spring 10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 Front Window (44 5/8 x 21 9/16 x 1/8) Note: Replacement Glass Must Be	
6	
7 404-10 404-10 Nut Hex, #10-24 10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) Note: Replacement Glass Must Be	
9 400112 400112 Lock Bar Spring 10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) Note: Replacement Glass Must Be	
10 600432-3 16000093 Lock Bar Assembly 11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
11a 16000051 16000051 Coin Cup 11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
11b 38529 38529 Coin Cup Door 11c 38530 38530 Coin Cup Axle Pin 12 460041 460041 Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 Hole Plug 14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
11c 38530 38530 Coin Cup Axle Pin Door Gasket Foam 1/4 x 1/4 13 420040-9 420040-9 750141 Hole Plug Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
12	
13 420040-9 420040-9 750141-1 750141 Hole Plug Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
14a 750141-1 750141 Front Window (44 5/8 x 21 9/16 x 1/8) (44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
(44 5/8 x 26 7/8 x 1/8) Note: Replacement Glass Must Be	
Note: Replacement Glass Must Be	
14500002 14500003 Thermal Window, Optional (can only be	
used on a machine ordered from the	
factory with a thermal window installed)	
460570 460570 Decal. "COOL - COOL" (not shown)	
14b 460436 460436 Window Edging (order per inches) 14"	
15 202461-1 202461 Bottom Window Clamp	
16 202462-1 202462 Lower Window Support	
17 12000193 12000193 Vertical Window Clamp (Lock and Pivot Side)	
18 200906 200906 Bin Anchor Strap	
19 400192 400095 Door Stop	
20 114-41-8 114-41-8 Screw Hex Head, 1/4-20 x 1/2	
101 400010 10 400010 10 Weeber 1 1/9 OD	
22 300156 300156 Door Stop Anchor	
23 420010-18 420010-18 Washer, Brass. Door Adjustment	
24 640157 640154 Lower Hinge Plate Assembly, Specify Color	
25 420003 420003 Flat Head Socket Screw, 1/4 lg.	
26 420003-1 420003-1 Flat Head Socket Screw, 1/2 lg.	
27 217-8R10 217-8R10 Screw, Pan Head, Phillips #8 x 5/8	
28 660558-19 660558-20 Delivery Bin, Assembly Complete	
See Page 5.19 for Itemized Parts	
29 276-8R6 276-8R6 Screw Pan Head 8-32 x 3/8	
30 380022-5 380022-5 Pluorescent Lamp, F18T8/CWK24	
31 380023 380023 Starter FS25	
380023-3 380023-3 Starter, 240 Volt	
32 680512 680512 Lamp Harness Assembly	
33 420062-1 420062-1 Screw, Flat Head Machine, #4-36 x 3/4	
34 460756 460756 Decal, Function Keys (not shown)	
35 12000200 12000201 POS Theft Guard	
36 305-7R8 305-7R8 Screw, Plastite, #7 x 1/2 37 276-6R4 276-6R4 Screw, Self Tap, 6-32 x 1/4	
37 276-6R4 276-6R4 Screw, Self Tap, 6-32 x 1/4 38 438-8 438-8 Nut, 8-32	
39 420144 420144 Ferule	
40 305-8R6 305-8R6 Ferule Screw, Plastite, #8 x 3/8	ļ
1.0 0.00 0.10 1.01010 0.010 W, 1.1001110, πο λ.070	l



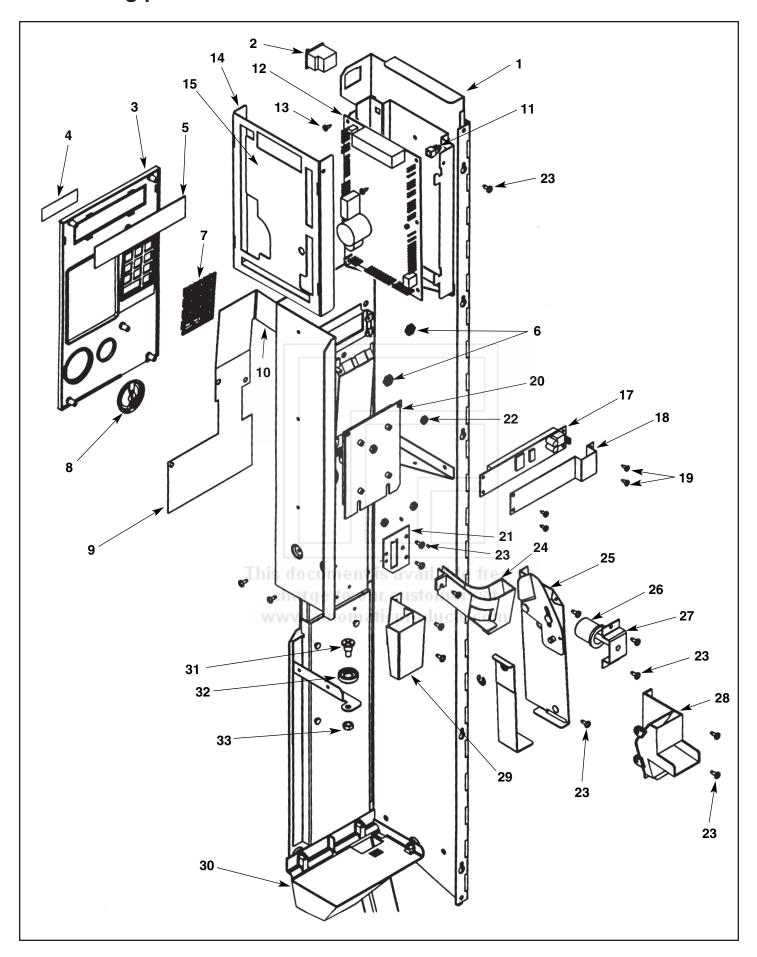
Key	Description	128	128C	129	129C
1	Cabinet Assembly, No Legs. Ambient Snack Area.	600830-1	N/A	16000001-01	N/A
	Cabinet Assembly, With Legs. Ambient Snack Area.	N/A	17500025-04	N/A	17500025-03
	Cabinet Assembly, No Legs. Chilled Snack Area.	600830	N/A	16000001	N/A
	Cabinet Assembly, With Legs. Chilled Snack Area.	N/A	17500025-04	N/A	17500025-08
2	128 / nut, 129 / Screw	438-1	438-1	164-51-7	164-51-7
3	Assembly, Upper Hinge.	340150	340150	640107-1	640107-1
4	Screw, Flat Head. (1/4-20 X _)	420003-1	420003-1	420003-1	420003-1
5	Screw, Pan Head. (8-32 X 3/8)	276-8R6	276-8R6	276-8R6	276-8R6
6	Assembly, Back Screen.	16600047	16600047	16600047	16600047
7	Leg Assembly, Rear.	600195	600195	600195	600195
8	Screw (5/16 – 18 X _)	420187	420187	420187	420187
9	Leg Leveler	300103	300103	300103	300103
10	Lower Hinge Support, Specify Color.	201773	201773	202088	202088
11	Leg Assembly, Front, Pivot Side.	600195	600195	600302	600302
12	Washer	420010-22	420010-22	420010-10	420010-10
13	Screw, Flat Head. (1/4 – 20 X _)	420003	420003	420003	420003
14	Assembly, Lower Door Plate, Specify Color	640157	640157	640154	640154
15	Door Stop Anchor.	300151	300151	300156	300156
16	Door Stop Rod.	400090	400090	400095	400095
17	Washer	420010-10	420010-10	420010-10	420010-10
18	Screw, Hex Head. (10 X _)	114-41-8	114-41-8	114-41-8	114-41-8
19a	Door Stop Plate.	200940	200940	201042	201042
19b	Door Stop Friction Pad.	N/A	N/A	440204	440204
20	Screw, Pan Head. (10-32 X 1).	277-10R16	277-10R16	277-10R16	277-10R16
22	Assembly, Leg, Front Lock Side.	600197	600197	600197	600197
23	Assembly, Door Lock Catch.	600433	600433	600433	600433
25	Hex Nut. (8-32)	404-4	404-4	404-4	404-4
26	Fan Harness.	680456-1	680456-1	650456-1	680456-1
27	Fan Housing.	202072	202072	202072	202072
28	Fan Motor, 115 V.	360122-2	360122-2	360122-2	360122-2
	Fan Motor, 230 V.	360122-3	360122-3	360122-3	360122-3
	Kit, Fan Add on, 115 V.	750102-4	750102-4	750102-4	750102-4
	Kit, Fan Add on, 230 V.	750102-5	750102-5	750102-5	750102-5
29	Screen Bracket.	202070	202070	202070	202070
-	Cover Plate, Use Without Fan.	202235	202235	202235	202235
30	Screen.	202071	202071	202071	202071
31	Plate, Power Cord.	202270	202270	202270	202270
33	Strain Relief Bushing With Screw.	380052-3	380052-3	380052-3	380052-3
34	Assembly, Power Inlet Cord, 115V.	16600098	16600098	16600098	16600098
	Assembly, Power Inlet Cord, AP/UK, Export.	16600099	16600099	16600099	16600099
	Assembly, Power Inlet Cord, Australia, Export.	16600099-01	16600099-01	16600099-01	16600099-01
	Assembly, Power Inlet Cord, Israel, Export.	16600099-02	16600099-02	16600099-02	16600099-02
	Assembly, Power Inlet Cord, Complete, Multisnack.	16600099-03	16600099-03	16600099-03	16600099-03
35	Screw, Pan Head. (8-32 X _)	276-8R8	276-8R8	276-8R8	276-8R8
36	Deflector.	202690	202690	202690	202690
37	Vent Screen, Ambient Snack Area.	12000401-01	12000401-01	12000401-01	12000401-01
	Vent Screen, Chilled Snack and Can Area	120000401	120000401	120000401	120000401



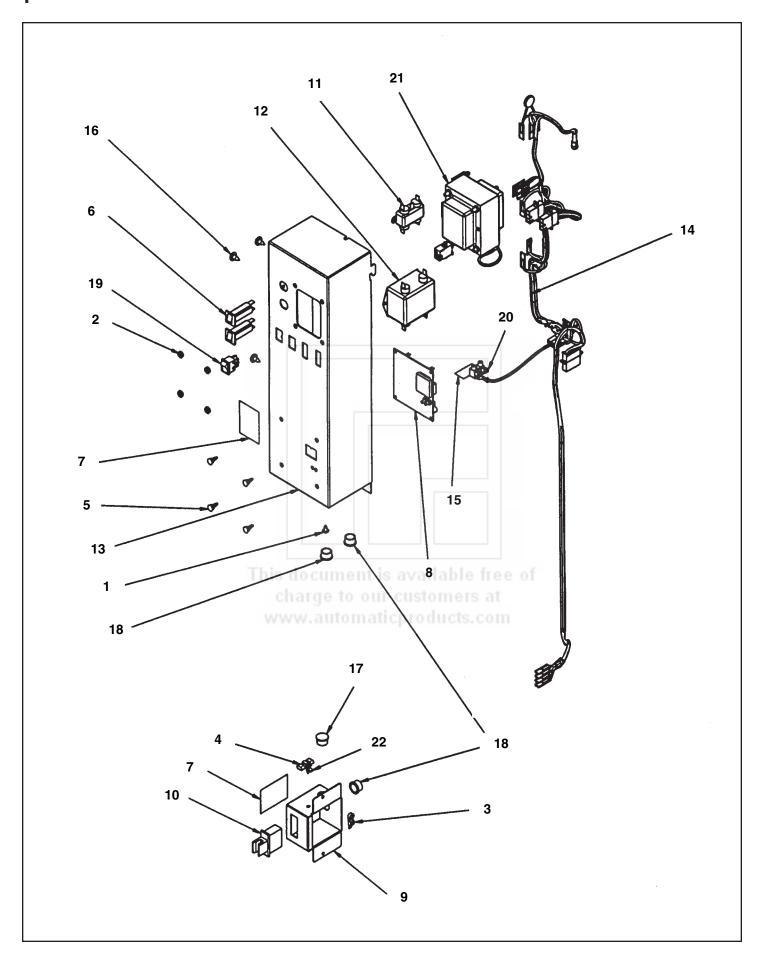
Key	Description	128	128C	129	129C
1	Cabinet Assembly, No Legs. Ambient Snack Area.	600830-1	N/A	16000001-01	N/A
	Cabinet Assembly, With Legs. Ambient Snack Area.	N/A	17500025-04	N/A	17500025-03
	Cabinet Assembly, No Legs. Chilled Snack Area.	600830	N/A	16000001	N/A
	Cabinet Assembly, With Legs. Chilled Snack Area.	N/A	17500025-09	N/A	17500025-08
2	Filler Plate (Hinge Side) With Latch Assembly.	16600137	16600137	16600137	16600137
4	Screw. Self Tap, 8-32 X 3/8.	276-8R6	276-8R6	276-8R6	276-8R6
5	Shelf Support, Left Front.	12000008	12000405	12000008	12000405
6	Assembly, Cabinet Shelf Track, Left.	640177-2	640177-2	640177	640177
10	Assembly, Cabinet Shelf Track, Right.	640177-3	640177-3	640177-1	640177-1
11	Cabinet Receptacle, Bracket Only.	12000173	12000173	12000173	12000173
13	Cabinet Back Harness with Brackets.	16600162	16600162	16600162	16600162
14	Hex Head Nut. (6-32)	406-4	406-4	406-4	406-4
15	Line Filter.	380303	380303	380303	380303
16	Assembly Complete, Light Ballast and filter. 115 Volt.	16600092	16600092	16600092	16600092
	Assembly Complete, Light Ballast and filter 230 Volt.	16600093-03	16600093-03	16600093-03	16600093-03
17	Screw, Pan Head. (6-32 X 3/8).	276-6R6	276-6R6	276-6R6	276-6R6
18	Ballast Only, 117 Volt.	680514	680514	680514	680514
	Ballast Only, 230 Volt.	680513-2	680513-2	680513-2	680513-2
19	Retaining Ring.(1/8)	751-9	751-9	751-9	751-9
20	Latch	202376	202376	202376	202376
21	Latch, Pivot Pin.	300211	300211	300211	300211
22	Spring	400182	400182	400182	400182
23	Screw, (_ X _).	216-41R8	216-41R8	216-41R8	216-41R8
27	Mounting Bracket.	202400	202400	202400	202400
28	Screw, #8 X 3/8.	210-8R6	210-8R6	210-8R6	210-8R6



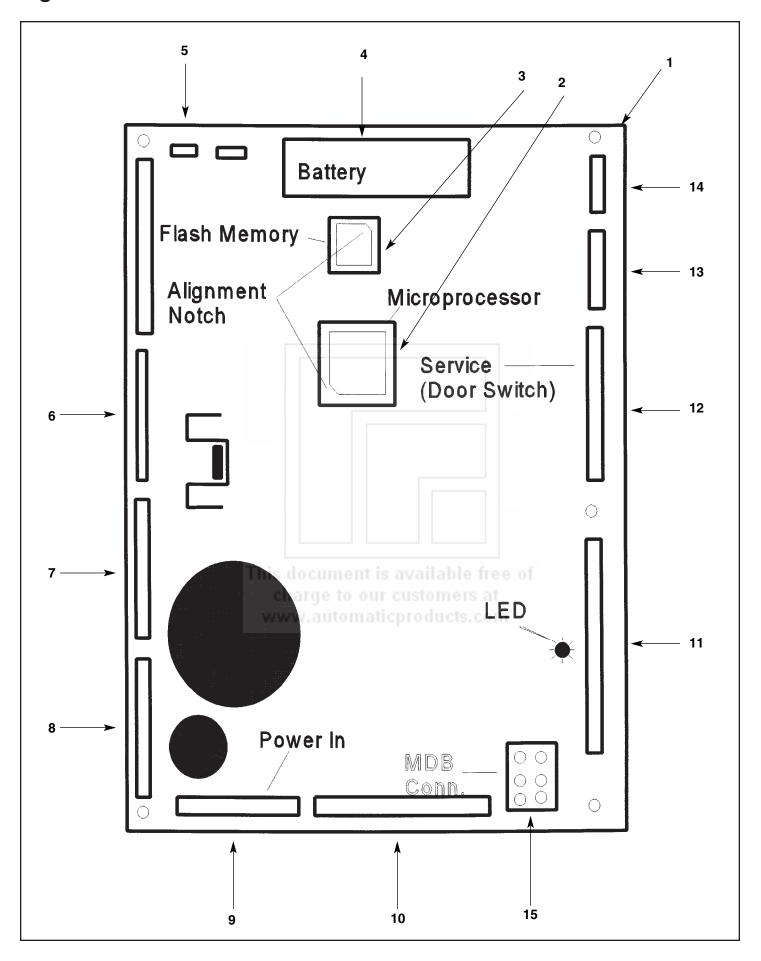
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Key	Description	128 & 129	128C & 129C
1	Swing Panel Assembly Complete W/O Logic Board. (Black)	680661	16600244
	Swing Panel Assembly Complete W/O Logic Board. (Euro Gray)	680661-1	16600244-01
	Swing Panel Assembly Complete W/O Logic Board. (Odyssey)	680661-2	16600244-02
	Swing Panel Weldment, Specify Color.	600812	16000146
2	Door Switch and Harness Assembly.	660266	660266
3	Selector Bezel – Black	440442	440442
	Selector Bezel – Lt Gray	440442-1	440442-1
	Selector Bezel - Dk Gray. (Odyssey)	440442-2	440442-2
4	Api Logo – Lt Gray.	17400102-01	17400102-01
	Api Logo – Dk Gray.	17400102	17400102
5	Display Lens.	440310	440310
6	Pal Nut _" Self Threading.	18443	18443
7	Selection Buttons Braille – Dark Gray.	14400015	14400015
	Selection Buttons Braille – Lt Gray.	14400015-01	14400015-01
8	Coin Insert – Dark Gray (USA, El Salvador, Ethiopia, Tahiti).	440445	440445
	Coin Insert – Dark Gray (Chile, Brazil, France, Germany, Taiwan).	440445-1	440445-1
	Coin Insert - Dark Gray (UK, Turkey, Panama, Columbia, China, Peru, Sweden, South Africa, Saudi Arabia).	440445-2	440445-2
	Coin Insert - Dark Gray (Belgium, Spain, Argentina, Canada).	440445-3	440445-3
	Coin Insert - Dark Gray (Australia, New Zealand, Italy, Lebanon, Mexico, Holland, Israel, Malaysia, Tunisia,		
	Singapore, Oman, Uruguay, Denmark, Philippines, United Arab Emirate).	440445-4	440445-4
	Coin Insert - LT Gray (USA, El Salvador, Ethiopia, Tahiti).	440445	440445
	Coin Insert – LT Gray (Chile, Brazil, France, Germany, Taiwan).	440445-1	440445-1
	Coin Insert - LT Gray (UK, Turkey, Panama, Columbia, China, Peru, Sweden, South Africa, Saudi Arabia).	440445-2	440445-2
	Coin Insert - LT Gray (Belgium, Spain, Argentina, Canada).	440445-3	440445-3
	Coin Insert - LT Gray (Australia, New Zealand, Italy, Lebanon, Mexico, Holland, Israel, Malaysia, Tunisia,		
	Singapore, Oman, Uruguay, Denmark, Philippines, United Arab Emirate).	440445-4	440445-4
9	Selector Switch (MasterMenu Keypad).	360253	360253
	Braille Overlay, Selection Switch (Not Shown)	17400008	17400008
10	Selection Switch Extension Cable.	680633	680633
11	Board Standoff.	420394	420394
12	Logic Board, See Page 5.15	360276	360276
13	Board Mounting Screw, 8 X 3/8 Plastite.	305-8R6	305-8R6
14	Board Cover W/O Decal.	202802	202802
15	Decal, Board Cover.	460734	460734
17	Display Board.	360244	360244
18	Insulator, Display Board.	360256	360256
19	Screw, Display Board Mounting.	200-6R6	200-6R6
20	Validator Blocking Plate, Black.	680580	680580
	Validator Blocking Plate, Lt Gray.	680580-1	680580-1
	Validator Blocking Plate, Dk Gray. (Odyssey)	680580-2	680580-2
21	Coin Chute Bracket.	201712	201712
22	8-32 Hex Nut.	404-8	404-8
23	Screw, 8-32 X 3/8	276-8R6	276-8R6
24	Coin Chute.	440311	440311
25	Coin Return Assembly.	660682	660682
26	Coin Return Button – Dark Gray	440289	440289
	Coin Return Button – Milled, Card Only.	440289-1	440289-1
	Coin Return Button – Black.	440281-2	440281-2
27	Coin Return Bracket.	201660	201660
28	Coin Chute Assembly, Water Diverter.	660488	660488
29	Coin Chute.	14400008	14400008
30	Assembly Complete, Coin Chute. (2 pieces)	750182	750182
31	Odyssey Coin Chute Assembly. (2 pieces)	16600069	16600069
32	Hole Snap Bushing.	420040-3	420040-3
33	Nut,28 Keps.	437-41	437-41
34	Harness Mounting Bracket (Micromech) . Not Shown.	202024	202024



Verr	Part No.				Key Part No.			
Key	128 & 128C	129 & 129C	Description	I.V.	ey	128 & 128C	129 & 129C	Description
	16600053 16600054	16600053 16600054	Domestic.					
	16600057	16600057	Chilled, Export. Junction Box Complete 120V Chilled Export					
1	210-8R6	210-8R6	# 8 X 3/8 Screw					
2	438-8	438-8	8-32 Nut					
3	380078	380078	Cable Tie					
4	380263	380263	Interlock Cheat Tool					
5	17100002	17100002	Circuit Board Standoff					
6	380241	380241	Circuit Breaker 3 Amp					
7	460642	460642	Decal, Voltage					
8	13600001	13600001	Digital Temp Control Assembly, Used in Chilled Machines Only. Includes Board					
	13600001-01	13600001-01	and Probe Temp Control, Board Only					
	13600001-02	13600001-02			-			
9	12000122	12000122			+			
10	380262	380262	Door Switch					
11	380303	380303	RFI Filter					
12	380304	380304	RFI Filter	+	+			
13	12000099	12000099						
14	16800022	16800022	Junction Box Complete 117V, Chilled					
	16800015	16800015	Junction Box Complete 230V, Chilled, Export.					
15	440065	440065	Mylar Insulation		\perp			
16	216-41R8	216-41R8	Screw 1/4 X 2					
17	420040-1	420040-1	Snap Bushing / Hole Plug					
18	420040-2	420040-2	Snap Bushing / Hole Plug	_	Щ			
19	380243	380243	Rocker Switch	-	-			
20	380285	380285	Terminal Block	ıvai	ila	ble fre	e of	
21	13900003	13900003	Transformer, 117V Transformer, 230V	usto	o m	iers at		
	13900004	13900004	Iransformer, 230V			ete en		
22	380321 12000103	380321 12000103	Clip for Interlock Switch Tool Power Box Mounting Panel (not shown).	1100		C15.C01		
23	12000103	12000103	Power box Mounting Farier (not snown).					



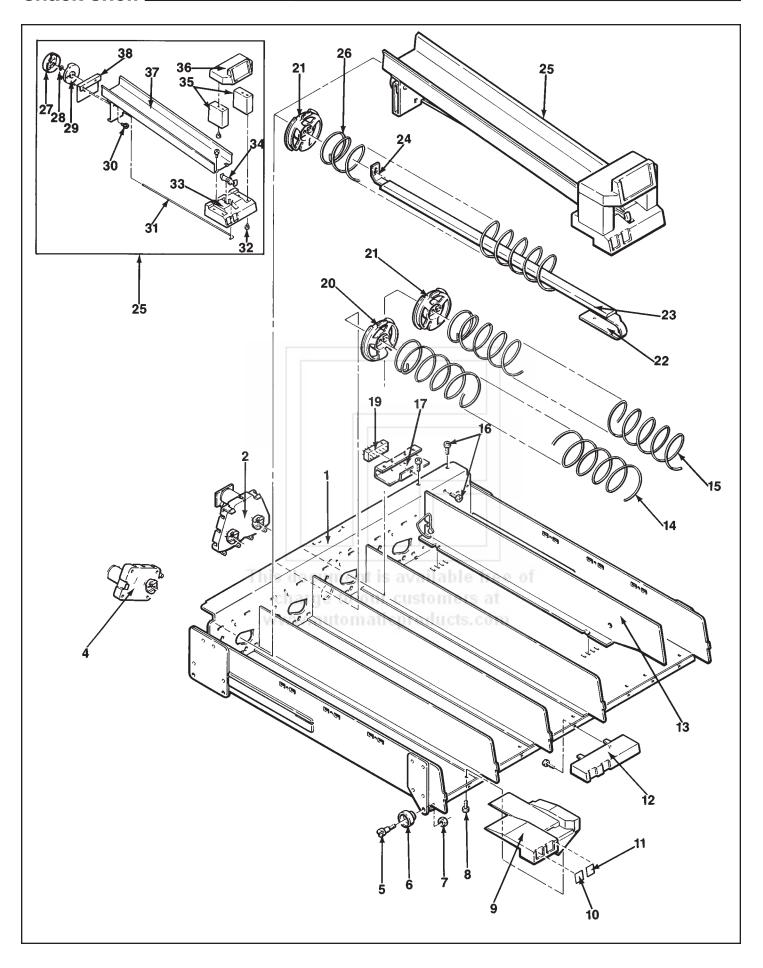
_120 / logic board harnesses and components

Item			Item		
No.	Part No.	Description	No.	Part No.	Description
1	360274	Logic Board			OPTIONS
2	360272	Microprocessor		17500005	MasterMenu Online Package, Complete
3	360266	Flash Memory Chip		17500004	PC to Chip Harness
4	380308	Battery, 3.6 V Lithium W/Harness		16800013	Harness Board to Chip
5	680629	Display Harness		17500003	Chip with Holder
6	680633	Ribbon Cable, Master Menu Extension		56800022	Harness PC to Logic Board
		Harness.		13700005	Doubletalk (Voice Synthesizer)
7	680319	Executive Coin Mech Harness.		16800042	Harness, Doubletalk
8	680637	Harness, Pulse Bill Validator.			
	680355-1	Harness Pulse Bill Validator Door Mount			
9	680630	Harness, Power Box to Board.			
10	16600085	Cabinet Back Harness 5, 6 &7. Shelf with			
		Expander Capability			
	*660442	Cabinet Back Harness, 5 shelf			
	*660442-1	Cabinet Back Harness, 6 shelf			
	*660442-2	Cabinet Back Harness, 7 shelf			
11	680547	Harness, Micromech Coin Changer.			
12	680632	Harness, Operate/Service Interlock Switch.			
13	680509	Printer Harness/Dex Harness, Loose			
	16800044	Dex Harness Panel Mount			
14	16800013	Touch Memory Harness			
15	680642	MDB Extension			
	16800017	MDB Extension, Door Mount Validator			
	680659-1	Com/Power Harness, Digital Control			

cabinet harnesses

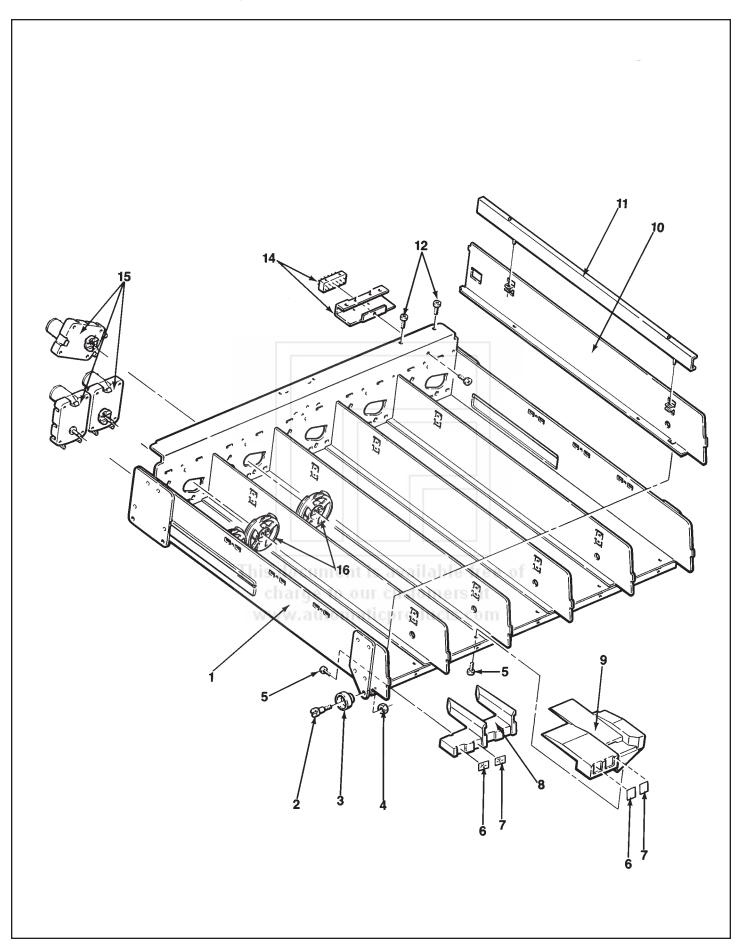
Part No.	Description ocument is av	Part No.		Description
16600098	Line Cord, 120V, Domestic.	stomers a	t	
660505-1	Line Cord, 230V, Europe.	o ducts.co		
660505-2	Line Cord, 230V, Australia.			
660505-3	Line Cord, 230V, Isreal.			
660505-4	Line Cord, 230V, APi / UK.			
660505-5	Line Cord, 230V, UK.			
680445-1	Harness Candy Shelf.			
680446	Harness, Pastry Shelf			
680305	Harness, Gum and Mint Shelf			
16600085	Cabinet back Harness 5-7 shelves			
*660442	Cabinet back Harness 5 shelves only w/old style Gum & Mint			
*660442-1	Cabinet back Harness 6 shelves only w/old style Gum & Mint			
680456-1	Light Harness & Fan Harness			
680512	Lamp Harness Assembly			
680547	Micromech changer harness			
680319	Executive changer harness			
680637	Pulse bill validator harness			

Part #'s marked with an (*) are for machines serial # 12399090000 and below.



Key	Description	128 & 128C	129 & 129C
1	Snack Shelf w/o Spirals, Complete, including motors and harness.	750121-13	750121-15
	Dual Snack Shelf w/o Spirals, Complete, including motors and harness.	750162-15	750162-13
	Snack Shelf Only. (Weldment)	600819	600761
2	Dual Spiral Motor Only, White/Blue.	360240	360240
	Kit, Dual Spiral Add on.	750159-2	750159-2
4	Vend Motor Complete, White/Blue	360275	360275
5	Screw, Shelf Roller.	300203	300203
6	Roller, Shelf.	440362	440362
7	Nut, Keps. (1/4 X 28)	437-41	437-41
8	Screw, Pan Head, Phillips, Plastite. (8-16 X 3/8)	305-8R6	305-8R6
9	Price and Selection Tab Holder. (Single Spiral)	440285	440285
10	Item Tabs	17400118	460669
11	Price Tabs. See Chart on Page 6.16.		
12	Dual Spiral Pastry Shelf Front.	440367	440367
13	Spacer, Snack Shelf	640101-1	640101
14	Left Hand Dual Spirals, See Chart at bottom of page.		
15	Right Hand Dual Spirals, See Chart at bottom of page.		
16	Screw, Pan Head. Self Tap (8-32 X 3/8)	276-8R6	276-8R6
17	Bracket only	16000083	16000083
18	Pin, Shelf Plug.	420046-4	420046-4
19	Assembly Complete, Harness Plug and Bracket	660435-9	660435-7
	Harness only, no Bracket.	16800073	16800049
20	Spiral Retainer, Left Hand. Gray	440406	440406
21	Spiral Retainer, Right Hand. White	440405	440405
22	Front Rail Support Only	201534	201534
23	Product Rail Assembly, for use with Single Pastry Spiral.	660330-3	660330-2
24	Rear Bracket Only	200913	200913
25	Single Snack Spirals, See Chart at bottom of page.		750083
26	Kit, Can Dispenser	750083-1	
27	Drive Cam Rear	440201	440201
28	Retaining Ring # 31	751-31	751-31
29	Drive Cam, Front.	440200	440200
30	Shoulder Bushing.	300184	300184
	Screw Type # 23	277-10R8	277-10R8
31	Actuator Wire.	400094	400094
32	Screw, Plastite. (8-16 x 3/8)	305-8R6	305-8R6
33	Price & Selection Trim.	440196	440196
34	Stop Leveler.	440199	440199
35	Leg, Top Can Guide & Sign Trim.	440198	440198
36	Top Can Guide & Sign Trim.	440197	440197
37	Can Dispenser, Trough Only.	600308	600308
38	Cam, Mounting Bracket & Spring Assembly	640109	640109

	Single Sna	ack Spirals	Left Hand Dual Spirals		Left Hand Dual Spirals Right Hand Du		nd Dual Spirals
	128 & 128C	129 & 129C	128 & 128C	129 & 129C	128 & 128C	129 & 129C	
3 Space	460165-1	N/A	400184-1	N/A	400185-1	N/A	
4 Space	N/A	14000002-01	400186-1	N/A	400183-1	N/A	
6 Space	400124-1	400162-1	400174-1	14000003-01	400173-1	400167-1	
7 Space	N/A	400153-1	N/A	400178-1	N/A	400164-1	
8 Space	400125-1	N/A	400175-1	N/A	400116-1	N/A	
9 Space	N/A	N/A	N/A	400179-1	N/A	400166-1	
10 Space	400126-1	400127-1	400176-1	400169-1	400117-1	400168-1	
12 Space	N/A	400128-1	N/A	400170-1	N/A	400120-1	
15 Space	N/A	400129-1	N/A	400171-1	N/A	400121-1	
30 Space	N/A	400136-1	N/A	N/A	N/A	N/A	
40 Space	N/A	400137-1	N/A	N/A	N/A	N/A	



convertible/fixed candy shelf

Key	Description	123 & 123A	123B & 123C
1	Convertible Candy Shelf Complete, w/o Spirals. (All Candy Selections)	750148-16	16600125-02
	Fixed Candy Shelf Complete, w/o Spirals. (All Candy Selections)	750122-14	750122-15
	Convertible Pastry Shelf Complete, w/o Spirals. (All Pastry/Snack Selections)		16600125-01
	Convertible Shelf Only. Weld Assembly	600819	600761
	Fixed Shelf Only. Weld Assembly	600820	16000115
2	Screw, Shelf Roller.	300203	300203
3	Shelf Roller.	440362	440362
4	Nut. (1/4 – 28)	437-41	437-41
5	Screw, Plastite. (8-16 X 3/8)	305-8R6	305-8R6
6	Item Tabs.	460669	460669
7	Price Tabs, See Chart at Bottom of Page.		
8	Price & Selection Tab Holder, Candy.	440262	440262
9	Price and Selection Tab Holder, Snack.	440285	440285
10	Shelf Divider, Candy.	200753-6	200753-2
11	Assembly, Candy Spacer.	660178-2	660178
12	Screw, Pan Head. (8-32 x 3/8)	276-8R6	276-8R6
13	Pin, Shelf Plug.	N/A	N/A
14	Harness, Candy Shelf with Bracket.	660435-10	660435-8
	Harness Only.	16800074	16800050
15	Vend Motor Complete, White/Blue.	360275	360275
	Vend Motor Half Cycle, Brown/White	360241	360241
	Kit, 2 Selection Add-On.	750150-4	750150-4
	Kit, Dual Spiral Add on w/o Spirals. (one per selection)	750159-2	750159-2
	Kit, Half Cycle Add -On.	750136-2	750135-2
16	Spiral Lock, White	440405	440405

price tabs

460347	Price Tabs Ass't. 25¢ - \$1.50	
460740	Price Tabs Ass't. \$.75 - \$1.25	nis d
460602	Price Tabs Ass't. \$3.10 - \$4.05	- ch
14600010	Price Tabs Ass't. \$3.25 - \$5.50	30/30/3
460347-1	Price Tabs, All \$.30 - \$.35	00 00 1
460347-2	Price Tabs, All \$.40 - \$.45	
460347-3	Price Tabs, All \$.50 - \$.55	
460347-4	Price Tabs, All \$.60 - \$.65	
460347-5	Price Tabs, All \$.70 - \$.75	
460347-6	Price Tabs, All \$.80 - \$.85	
460347-7	Price Tabs, All \$.90 - \$.95	
460347-8	Price Tabs, All \$1.00 - \$1.05	
460347-9	Price Tabs, All \$1.10 - \$1.15	
460347-10	Price Tabs, All \$1.20 - \$1.25	
460347-11	Price Tabs, All \$1.30 - \$1.35	
460347-12	Price Tabs, All \$1.40 - \$1.45	
460347-13	Price Tabs, All \$1.50 - \$1.55	
460347-14	Price Tabs, All \$1.60 - \$1.65	
460347-15	Price Tabs, All \$1.70 - \$1.75	
460347-16	Price Tabs, All \$1.80 - \$1.85	
460347-17	Price Tabs, All \$1.90 - \$1.95	
460347-18	Price Tabs, All \$2.00 - \$2.05	

460347-19	Price Tabs, All \$2.10 - \$2.15
460347-20	Price Tabs, All \$2.20 - \$2.25
460347-21	Price Tabs, All \$2.30 - \$2.35
460347-22	Price Tabs, All \$2.40 - \$2.45
460347-23	Price Tabs, All \$2.50 - \$2.55
460347-24	Price Tabs, All \$2.60 - \$2.65
460347-25	Price Tabs, All \$2.70 - \$2.75
460347-26	Price Tabs, All \$2.80 - \$2.85
460347-27	Price Tabs, All \$2.90 - \$2.95
460347-28	Price Tabs, All \$3.00 - \$3.05
460529	Price Tabs, French. Ass't.
460540	Price Tabs, Mexico. Ass't.
14600013	PriceTabs,Mexico\$1.00-\$7.50
460561	PriceTabs,Spanish.35pts-125pts
460644	Price Tabs, UK. 15p-1.20pds
460727	Price Tabs, Italian. 100 - 600
14600022	Price Tabs, Italian. 300-2000
14600023	Price Tabs, Italian. 500-3000
460777	Price Tabs, Myl rm.60-rm2.00
460775	Price Tabs, Aus. \$1.20-\$1.60
460776	Price Tabs, Aus. \$1.70-\$2.50

3 Space 400185-1 N/A 4 Space 400183-1 N/A 5 Space N/A 140000004-01 6 Space 400174-1 400167-1 7 Space N/A 400164-1 8 Space 400116-1 N/A 9 Space N/A 400166-1 400117-1 10 Space 400168-1 12 Space N/A 400120-1 15 Space N/A 400121-1 16 Space 400119-1 N/A 18 Space N/A 400122-1 20 Space 400134-1 N/A 24 Space N/A 400123-1

N/A

N/A

128 – 128C

Spaces

30 Space

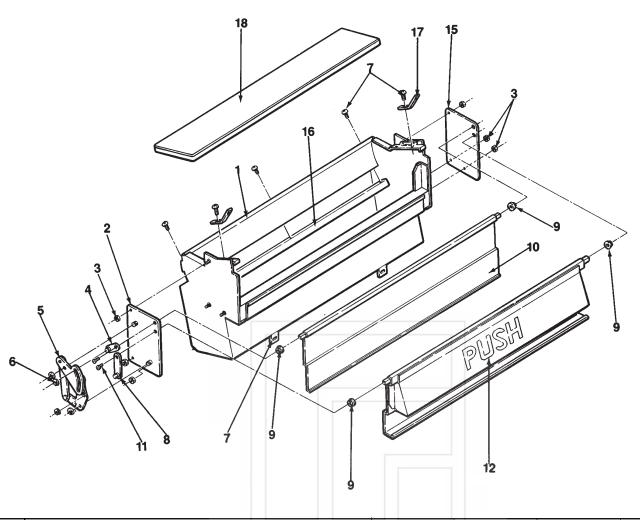
40 Space

candy spirals

129 - 129C

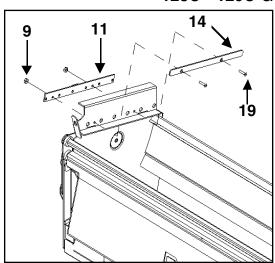
400135-1

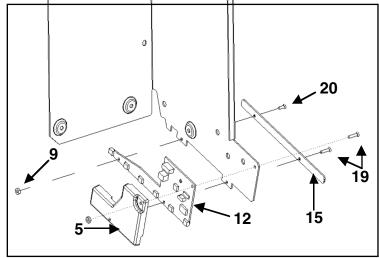
400138-1



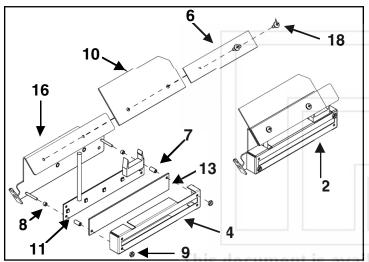
Key	Description Description	128	128C	129	129C
1	Delivery Bin Assembly, Complete. Black	660558-6	16600268	660558-5	16600268-02
	Delivery Bin Assembly, Complete. Gray	660558-8	16600268-01	660558-7	16600268-03
	Delivery Bin Assembly, Complete. Odyssey	660558-19	16600268-08	660558-20	16600268-09
	Delivery Bin Only.	600817-1	16000167	600817	16000167-01
2	Bin Linkage Assembly, Includes Items 2-8.	16600268	16600268	16600268	16600268
	Arm Mounting Bracket, only.	640230	640230	640230	640230
3	8-32 Nut.	438-8	438-8	438-8	438-8
4	Inner Bin Arm.	640098	640098	640098	640098
5	Bin Door Drive Assembly.	640100-1	640100-1	640100-1	640100-1
6	Retaining Ring # 37	751-37	751-37	751-37	751-37
7	Kit, Lower Bracket Repair.	750183	750183	750183	750183
8	Door Drive Arm.	640097	640097	640097	640097
9	Door Bearing.	440129	440129	440129	440129
	Bin Door Washer (Not Shown).	420082	420082	420282	420282
10	Inner Door.	200763-1	200763-1	200763	200763
	Inner Door Steel.	200763-4	200763-4	200763-3	200763-3
11	Screw, (8-32 X 3/8)	276-8R6	276-8R6	276-8R6	276-8R6
12	Door, Delivery Bin Black.	440373-1	440373-1	440373	440373
	Door, Delivery Bin Gray.	440373-3	440373-3	440373-2	440373-2
	Door, Delivery Bin Odyssey.	440373-6	440373-6	440373-10	440373-10
15	Arm Mounting Bracket (Lock Side).	202880	202880	202820	202820
16	Rear Barrier	200902-1	200902-1	200902	200902
17	Anchor Strap	200906	N/A - Part of Bin	200906	N/A - Part of Bin
18	Delivery Bin Pad, for Cans or Heavy Products.	660238-1	660238-1	660238	660238

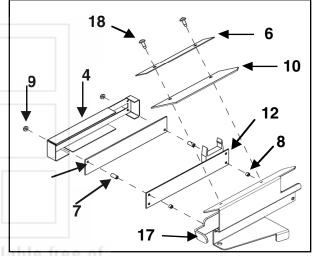
128C - 129C Golden Eye Sensor Assembly



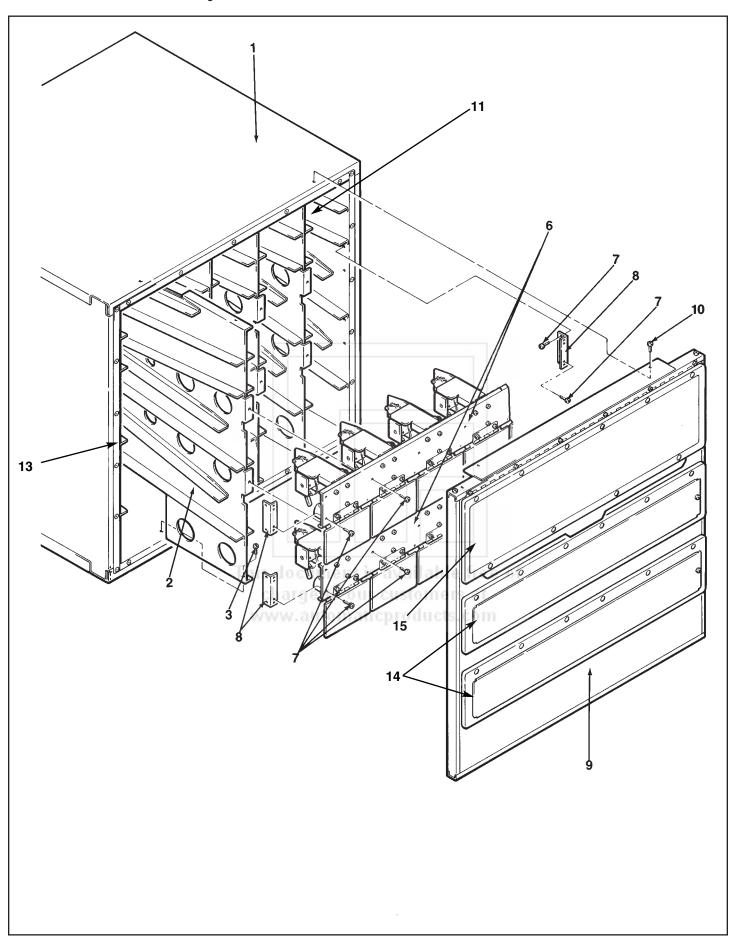


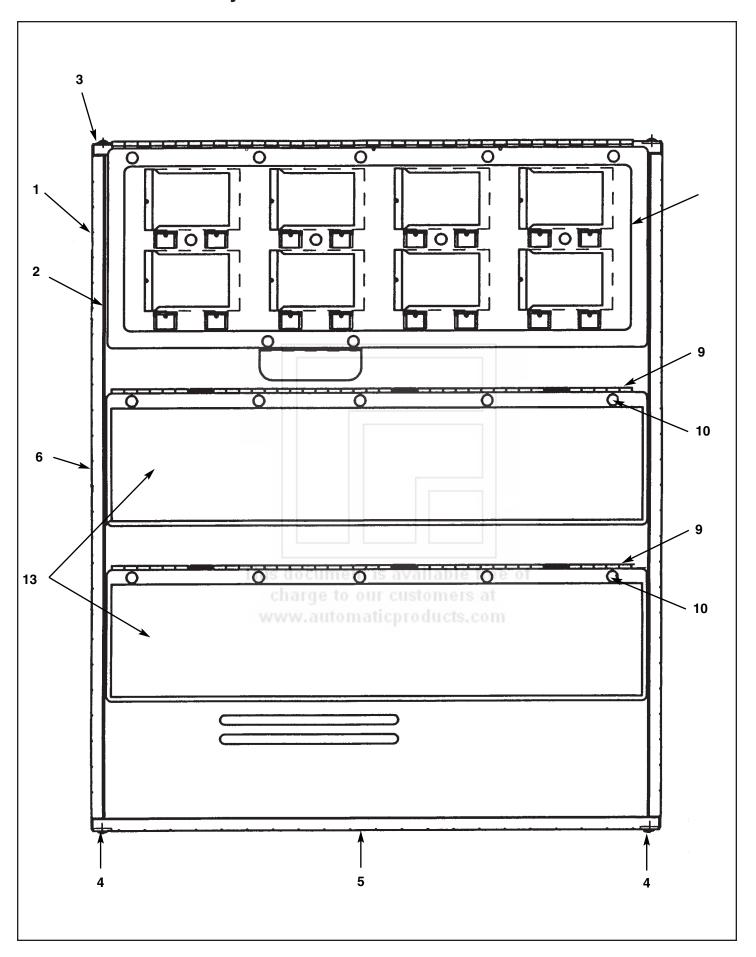
128 - 129 Golden Eye Sensor





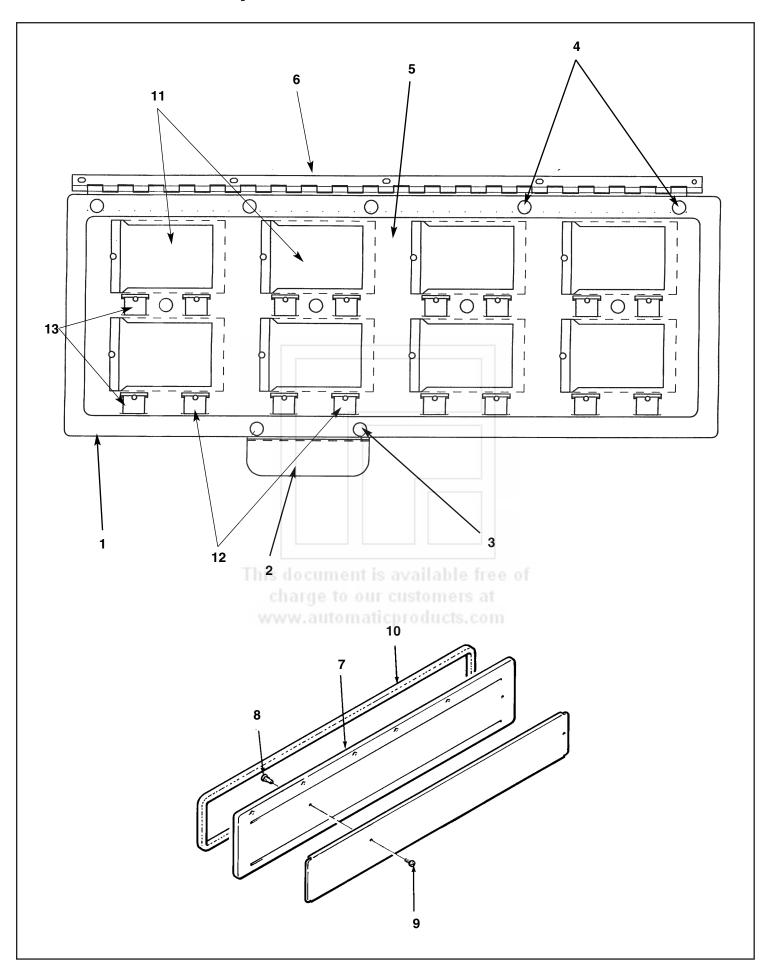
	Golden Eye Bin Sensor Part	128 – 129	128C - 129C
1	Golden Eye (bin sensor) Add On Kit Complete	17500021	17500027
2	Sensor Assembly Complete Hinge Side, Includes	16600218	N/A
3	Sensor Assembly Complete Lock Side	16600242	N/A
4	Sensor Cover. (Hinge & Lock Side)	12000325	N/A
5	Sensor Cover, Lock Sine Only.	N/A	14400039
6	Side Deflector Bracket. (Hinge & Lock Side)	12000343	N/A
7	Stud Spacer 3/16 X .115 X 3/8. (Hinge & Lock Side)	13100016	N/A
8	Stud Spacer 3/16 X .115 X 1/8. (Hinge & Lock Side)	13100016-01	N/A
9	Nylon Stop Nut (#4-40). (Hinge & Lock Side)	13100021	13100028
10	Deflector Side. (Hinge & Lock Side)	13300012	N/A
11	Printed Circuit Board Only, Hinge Side.	13600006	13600011
12	Printed Circuit Board Only, Lock Side.	13600006-01	13600010
13	Red Lens (Hinge & Lock Side)	14400029	N/A
14	Red Lens, Hinge Side Only.	N/A	14400038-01
15	Red Lens, Lock Side Only.	N/A	14400038
16	Sensor Bracket Pem Assembly Hinge Side Only.	16400027	N/A
17	Sensor Bracket Weldment, Lock Side Only.	16000126	N/A
18	Screw (8-32 X 3/8). (Hinge & Lock Side)	276-8R6	N/A
19	Screw, #4 – 40 X 1/2 Flat Head.	N/A	13100027
20	Screw, #4 - 40 X 3/8 Flat Head .	N/A	13100027-01
21	Harness, Golden Eye to Control Board. (not shown)	16800096	16800100
22	Harness, Sensor Board to Sensor Board. (not shown)	13600007-02	16800101



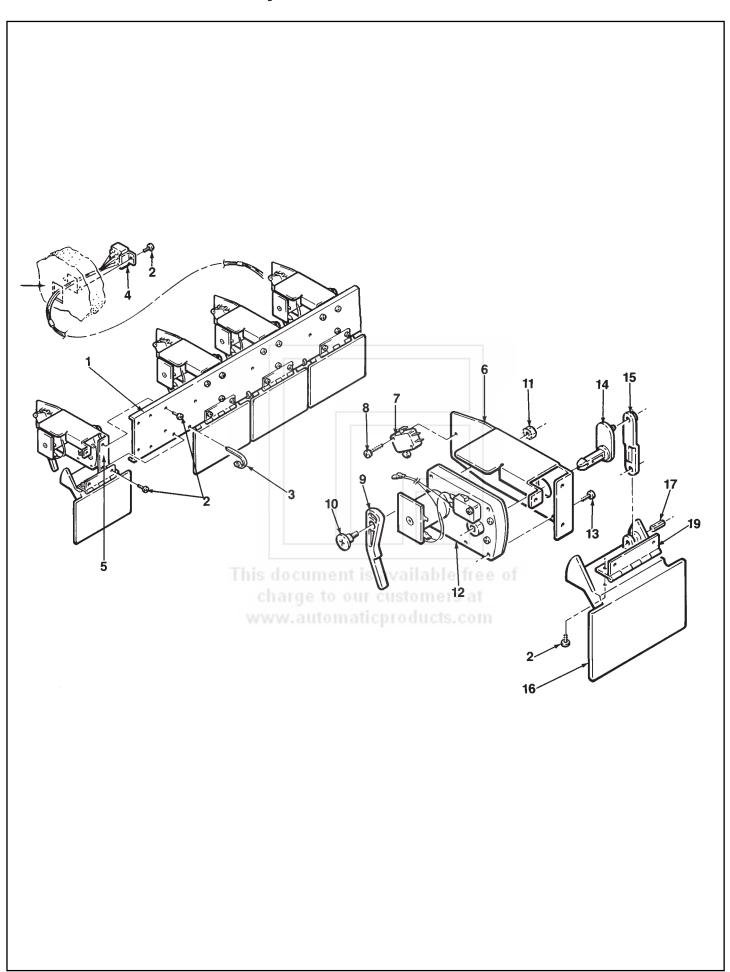


_____ cooler front assembly

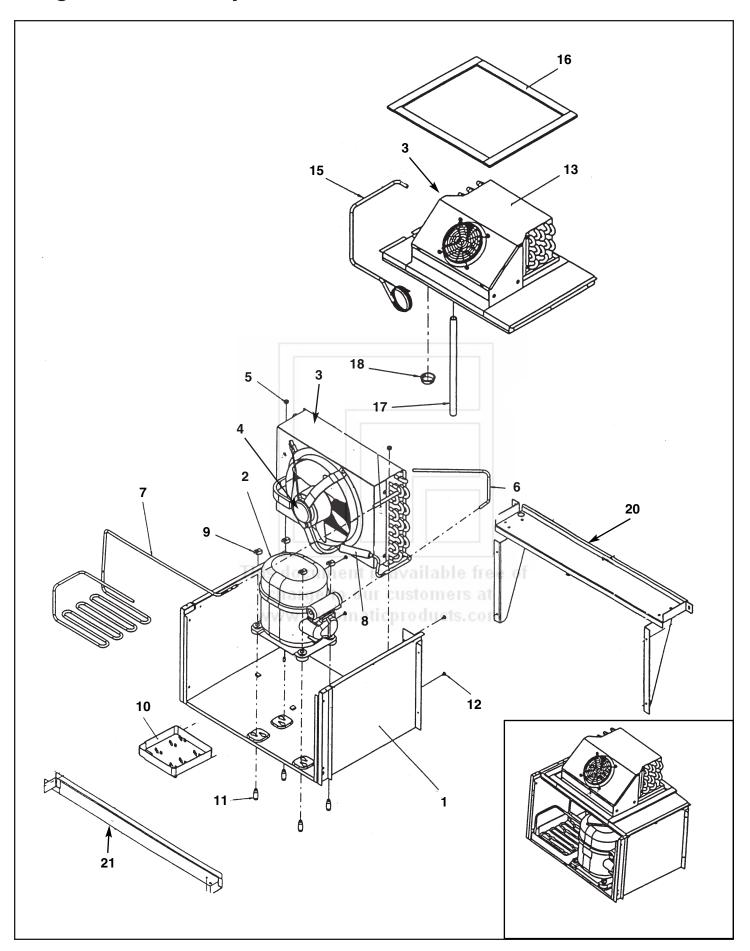
Vav	Part No.				Kov	Part No.		
Key	128	129	Description		Key –	128	129	Description
1 2 3 4 5 6 7 9 10 12 13	660710-3 660710-2 440457-1 440457 420431 600831 210-8R6 202871-1 202394 660707-1 460770 217H6R8 217H6R5 440398 440398-1 660706 440456 420429	660713-1 660714-1 440395 440441 420431 600697 210-8R6 202393-1 202394 660709-1 460677 217H6R8 217H6R5 440398 440398-1 660708 440445 420346	Cooler Front Assembly, Ambient Cooler Front Assembly, Chilled Frame, Plastic. Ambient Frame, Plastic. Chilled Gasket Top Weldment Support, Cooler Front Screw, Truss Head (#8 x 3/8) Bottom Support, Cooler Front Side Support, Cooler Front Service Door Assembly, See Page 5.25 Hinge Assembly Screw (6 x 1/2) Screw (^ x 5/16) Shoulder Nut Plastic 31/32 (Not Shown) Shoulder Nut Plastic 11/32 (Not Shown) Vend Door Assembly. See Page 5.25 Vend Door with Gasket Vend Door Gasket					
			This document is charge to our www.automatic	cus	tor			



Key	Part	No.		Ke	21/	Part	No.	
Rey	128	129	Description		У	128	129	Description
1	660707	660709	Service Door Assembly (Includes Items					
			1-8)					
	440454	440453	Service Door Only					
	440458-1	440458	Trim Frame, Price and Selection					
	420430	420430	Gasket (63" Not Shown)					
2	202848	202848	Handle, Service Door					
3	440398-1	440398-1	Shoulder Nut, Plastic (21/32)					
4	217H6R5	217H6R5	Screw, Pan Head (#6 x 5/16)		-			
5	460765	460635	Decal, Product Loading Diagram		-			
6	460769	460769	Hinge		-			
7	660706	660708	Vend Door Assembly		-			
	440456	440455	Vend Door with Gasket		-			
	420429	420346	Vend Door Gasket		-			
8	440398	440398	Shoulder Nut. Plastic (3/4)					
9	217H6R6	217H6R6	Screw, Pan Head (#6 x 1/2)		-			
10	420429	420429	Gasket		-			
11	660551	660551	Lables					
12	460347	460347	Price Tabs Assorted 25¢ - \$1.50					
	460602	460602	Price Tabs Assorted \$3.10 - \$4.05					
	14600010	14600010	Price Tabs Assorted \$3.25 - \$5.50					
	460740 460347-1	460740	Price Tabs Assorted \$.75 - \$1.25					
	460347-1	460347-1 460347-2	Price Tabs All \$.30 - \$.35		-			
	460347-2	460347-2	Price Tabs All \$.40 - \$.45 Price Tabs All \$.50 - \$.55					
	460347-3	460347-3	Price Tabs All \$.50 - \$.55					
	460347-4	460347-4	Price Tabs All \$.70 - \$.75					
	460347-6	460347-6	Price Tabs All \$.80 - \$.85					
	460347-7	460347-7	Price Tabs All \$.90 - \$.95		Ш			
	460347-8	460347-8	Price Tabs All \$1.00 - \$1.05		Ш			
	460347-9	460347-9	Price Tabs All \$1.10 - \$1.15		Ц			
	460347-10	460347-10			4			
	460347-11	460347-11	Price Tabs All \$1.30 - \$1.35	avai	Ta	ble fre		
	460347-12		Price Tabe All \$1.40 - \$1.45					
	460347-13	460347-13	Price Tabs All \$1.50 - \$1.55		_ [
	460347-14	460347-14	Price Tabs All \$1.60 - \$1.65	0.010	14	cts.com	1	
	460347-15	460347-15	Price Tabs All \$1.70 - \$1.75					
	460347-16	460347-16	Price Tabs All \$1.80 - \$1.85		-			
	460347-17	460347-17	Price Tabs All \$1.90 - \$1.95		-			
	460347-18		l l					
	460347-19		l l		-			
	460347-20		l l					
	460347-21	460347-21	l l					
	460347-22		l l					
	460347-23		l l					
	460347-24		l l					
	460347-25	460347-25	l l		- [
	460347-26		l					
	460347-27	460347-27	Price Tabs All \$2.90 - \$2.95					
	460347-28	460347-28						
	460529 460540	460529	Price Tabs, French					
	460540 460561	460540 460561	Price Tabs, Mexico Price Tabs, Spanish					
	460644	460644	Price Tabs, Spanish					
	460727	460727	Price Tabs, English					
Ш	TUU1 &1	700121	i nee iase, italian					



.,	Part	No.		[,	Pari	No.	
Key	128	129	Description	ľ	Сеу	128	129	Description
	16600155	16600152	Vend Motor Rack Assembly, US (355 ml) Complete					
	16600156	16600153						
	16600157	16600154						
1	202851 202852	202392 202421	Motor Assembly Mounting Bracket (U.S.) Motor Assembly Mounting Bracket					
	202850	202401	(UK) Motor Assembly Mounting Bracket (Aus)					
2	276-8R6 380307	276-8R6 380307	Screw, Pan Head (8-32 x 3/8) Cable Tie					
4	16800068 16800068	16800069	Can Rack Harness (US)					
ļ _	16800087	16800070	Can Rcak Harness (Australia)					
5 6	16600151 202391	16600151 202391	Motor Mounting Bracket					
7 8	380306 100-4-9	380306 100-4-9	Empty Switch Round Head Screw (4-40 x 9/19)					
9 10	440394 300203	440394 300203	Empty Switch Lever Shelf Roller Screw					
11 12	437-41 16700015	437-41 16700015	1/4 x 28 Keps Nut Vend Motor, Screw in					
13	16700014 305-7R8							
14 15	440392 440393	440392 440393	Motor Pivot Arm Link Arm					
16	660554	660554	Assembly, Can Dispenser Linkage (includes 15.16, 17 & 19)					
	440391	440391	Can Dispenser Only					
17 19	300210 460630	300210 460630	Link Pin Can Dispenser Hinge				e 01	
			www.automatic		- 1		n	

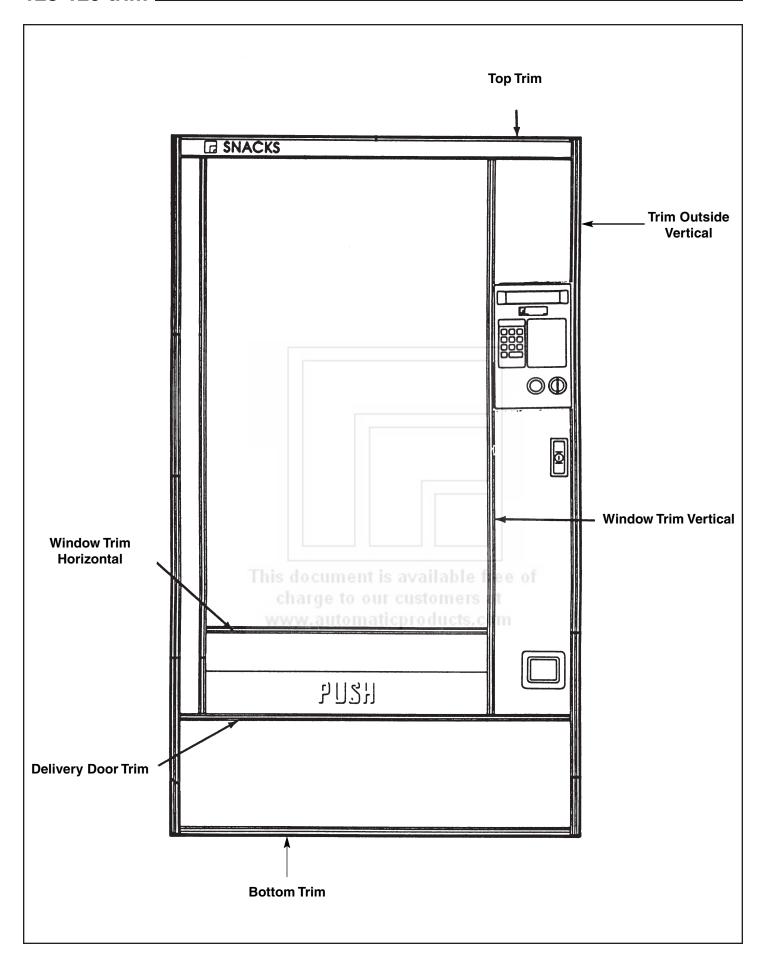


Key	Description	117V Ambient	117V Chilled	230V, 50 Hz Ambient	230V, 50 Hz Chilled	220V, 60 Hz Chilled
	Compressor Assembly Complete	16600101	16600102	16600101-01	16600102-01	16600103
1	Condenser Assembly Only, Complete	16600164-02	16600164	16600164-03	1660164-01	16600164-04
1a	Chassis Weldment	16600105	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	600833	600833	600833	600833	600833
20a	Front Cooler Support Only 129	16000012	16000012	16000012	16000012	16000012
21	Rear Bracket Support Only 128	202880	202880	202880	202880	202880
21a	Rear Bracket Support Only 129	12000019	12000019	12000019	12000019	12000019
22	Harness, Compressor (Not Shown)	680651	680651	680651	680651	16800027

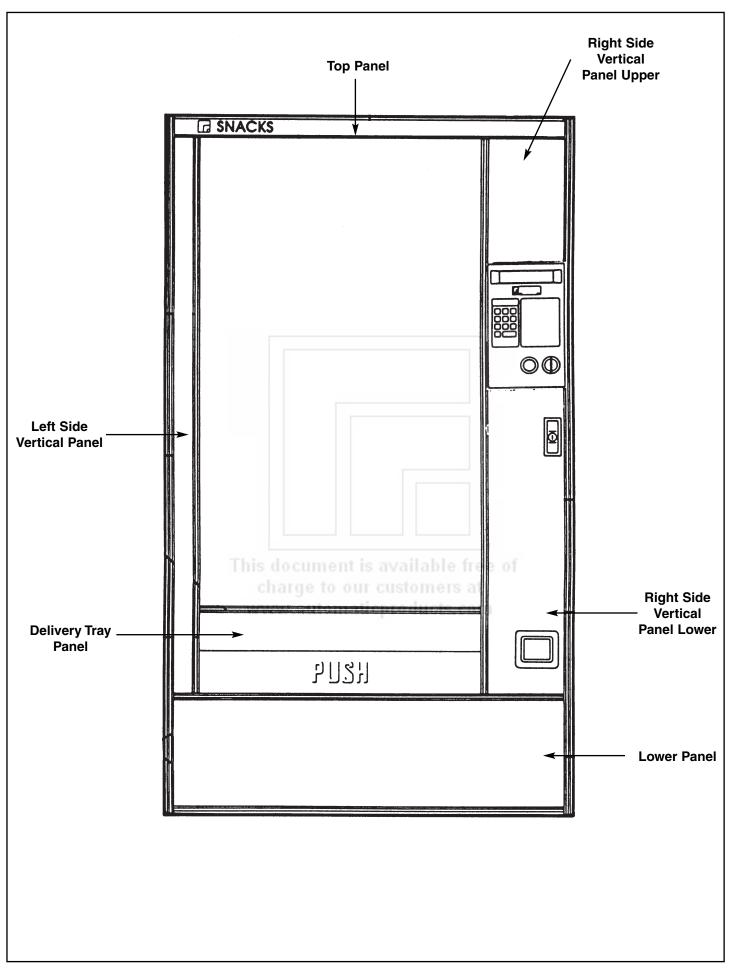
Note 1: Complete Compressor Assemblies do not include Item Numbers 20 or 21, Remove these parts before sending in a Compressor Assembly for repair.

Ambient Machines=only the can compartment is cooled.

Chilled Machines=both the can and the snack compartment are chilled.



TRIM	128	129	VIP	AP II	Vantage	Aramark	Award	CP3	Sterling, Mission	Tron	Genesis	Apollo	Euro - Grey	Euro - Black	128	129
Top Trim	Part #	Part #													Dimensions	Dimensions
Silver, use with insert	340042-13	340042-8	1				1				1				2 3/4 x 31.887	2 3/4 x 36.890
Black, use with insert	340044-15	360044-5		1											2 3/4 x 31.887	2 3/4 x 36.890
Black	340055-27	340055-9								1					Length 31.887	Length 36.890
Black, use with insert	340042-14	340042-10							1						2 3/4 x 31.887	2 3/4 x 36.890
Black, use with insert	340044-10	340044-9			1										Length 31.887	Length 36.890
Silver, use with insert	340044-16	340044-4				1									1.798 x 31.887	1.798 x 36.890
Silver, w Black tape	660231-24	660231-3						2		1					Length 31.887	Length 36.890
Black, use with insert	340044-14	340044-12												1		1.798 x 26.997
Silver, use with insert	340044-13	340044-11	П								П	1	1		1.798 x 21.57	1.798 x 26.997
,		<u>' </u>														
Trim Outside Vertical															Length	Length
Silver	340057	340057	2	2			2	2			2				35 39/64	65 39/64
Black	340057-2	340057-2			2				2	2					35 39/64	65 39/64
Silver Taped	660231-20	660231-20				2									35 39/64	65 39/64
Window Trim Horiz												П			Length	Length
Silver	340058-1	340058	1	1		1	1	1		1	П	П			21.357	26.721
Black	340058-12	340058-5	Ė		1	Ė			1	_	1	П			21.357	26.721
Black	340062-5	340062-3									П	1		1	21.656	26.997
Clear	340062-4	340062-2										П	1		21.656	26.697
Window Trim Vertical											П	П			Length	Length
Silver	340058-7	340058-7	2				2				П	П			51.531	51.531
Silver	340058-2	340058-2		2		2									52.468	52.468
Silver	340058-4	340058-4						2			-				50.937	50.937
Black	340058-6	340058-6							2		2				51.531	51.531
Black	340058-8	340058-8								2	П				50.937	50.937
Silver	340058-46	340058-46			2	П					П				65.406	65.406
Silver	340062	340062										2	2		65.406	65.406
Black	340062-1	340062-1	_											2	65.406	65.406
	LI LI	nis document	- 13	5	dV	d	П	a D	П	9	Ш	e e	•	П		
Delivery Door Trim		charge to o	Ш	(111	st	0.1	m	e i	S	a	-			Length	Length
Silver	340055-29	340055-3		1		1	1		4						31.887	36.89
Black	340055-27	340055-9	H	L	IJΙ	U	ш	IU	1		1	Ш			31.887	36.89
Silver with Black Tape	660231-24	660231-3	1					1		1					31.887	36.89
Black	340062-5	340062-3										1		1	21.656	26.997
Clear	340062-4	34062-2									П		1		21.656	26.997
Black	340058-12	340058-5			1										21.357	26.721
Bottom Trim															Length	Length
Silver w Black tape	660231-24	660231-3	1					1		1					31.887	36.89
Black, Square	340055-27	340055-9													31.887	36.89
Door Vinyl Edge Trim	201678-4	201678-5				П					П	1	1	1	21 13/16	27 3/16
Door viriyi Euge IIIIII					-	_	-	$\overline{}$	-	_	\rightarrow	\rightarrow	\rightarrow	_		
Door Vinyl Edge Trim	201678-2	201678			1	1	1		1		1				29 15/16	37 57/64

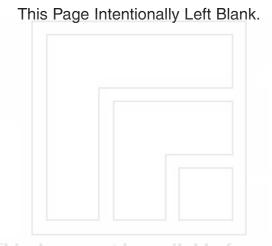


																																	0	•
128 PAN	ELS	VIP, Pres Wal	VIP, Black Hide	Vantage, Dove Grey	Vantage, Sterling Royce	CP3, Pres Wal	CP3, Black Hide Plain	CP3, Black Pika	CP3, Black Pika, Sterling	CP3, Slate	CP3, Dove Grey	CP3, Port Au Prince, Pres Wal	Sterling/Mis Bsn Bik, Mor Gry Sterling/Mis State Pewiter	Sterling Bison Black Mission	Tron, Dove Grev	Tron, Black Pika	Tron, Slate	Tron, Black Hide Plain	Tron, Sterling Royce	Genesis, Slate	Genesis, Black Hide, Stripe	Genesis, Black Hide, No Stripe	Genesis, Black Pika, all black	Aramark, Dove Grey	Aramark, Pika	Aramark, Slate	Aramark, Pres Wal		Sterling F	Aramark, Trendline Grey	Apollo	Euro Black	Euro Grey	
Lower Panel	Part #																																	Dimensions
Presidential Walnut		х			_	х						х	+				H		H	1	+	+	+	\dashv						_			H	10.437 x 32.187
Presidential Walnut		<u> ^</u>			-	^					Н	^	+							1	1	+		+			х							10.437 x 32.167 10.906 x 32.187
	201692-57	+		\dashv							Н		+	+	+		\vdash		\vdash	+	\dashv	\dashv		\dashv	_		-	_		\dashv	\dashv		\vdash	
Black Pika									.,				+								-		Х	-	Х								H	10.906 x 32.187
Black Pika	202296-57					-		Х	х				+			Х				4	4	+	-	-						-				10.437 x 32.187
Slate	202296-65	-		-	_					Х	Н	_	+	-	-		Х		\vdash		_	_		\dashv	_	_				\dashv			H	10.437 x 32.187
Dove Grey	202296-10										Х		-		Х						4	_	_	_							_		Ш	10.437 x 32.187
Bison Black	201692-52												x L	X							_												Ш	10.906 x 32.187
Slate	201692-36												X	(Х						Х								10.906 x 32.187
Sterling Royce	200296-55		Ш										\perp	\perp			Ш		х		\perp		\perp	\perp									$oxed{oxed}$	10.437 x 32.187
Sterling Royce	201692-39																												Х					10.906 x 32.187
Black Hide	200296-59		Х				Χ											Х																10.437 x 32.187
Black Hide W Stripe	201692-47				П																х													10.906 x 32.187
Black Hide No Stripe	201692-54																			П		х						х						10.906 x 32.187
Dove Grey	201692-50																			П				х										10.906 x 32.187
Trendline Grey	201692-40																													х			П	10.906 x 32.187
Black Hide Plain Euro				х	х	7				_										П	1			T						T	х		\Box	10.906 x 21.500
Paint	201692-45				П					т	-									П	\exists											х	х	10.906 x 22.500
Ton Panal	_	_																																Dimensions
Top Panel Presidential Walnut		х											1							Ц	_	_												2 5/8 x 31.887
Presidential Walnut Presidential Walnut	200526-2 201417	х				х						х																						2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide	200526-2 201417 200526-10	x	х									x	×	(x	x												2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide	200526-2 201417 200526-10 201417-23	X					X					X	×	(X			х	X												2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika	200526-2 201417 200526-10 201417-23 201417-18	x						x	x			X	×	(x		х			X	X												2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika	200526-2 201417 200526-10 201417-23 201417-18 200526-45	X						x	x			X	×	(x		X			X	X	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25	X						x	x	x		X	×	(x	x	X			x	x	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47	X		vic.				x	x	×	31	X	×	(x		x	Fre	x	x	x	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21	X						X	X	x	X	İs	201	via		x		X	Fare		X	X	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38	X						x	x	X	X	İs	X	X		X		x	fre d1		X	X	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2	X						x	X	X	x	İs	201	via	x	x		x	X		x	X	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2	X		X				x	X	x	X	İs	201	via		x		X	cl		X	x	x											2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7	X		X				x	x	x	X	İs	201	via		X		X	cl		x	x	x								X	x	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2	X		X				x	X	x	x	İs	201	via		x		X	cl		X	X									X	X	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Pika Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7	X		X				x	X	x	x	İs	201	via		x		x	cl		x	X		x	x	x	x	x	x		X	x	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide Paint	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7 201690-9	X		x				x	X	X	x	İs	201	via		x		X	cl		X	x		x	X	X	X	x	X		X	x	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538 1 43/64 x 21.538
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide Paint	200526-2 201417 200526-10 201417-13 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7 201690-9 201555-5	X		x	x	da W		x	X	x	X	İs	201	via		x		x	cl		x	x		x	x	x	X	x	x		X	x	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538 1 43/64 x 21.538 1 21/32 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide Paint Snacks	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7 201690-9 201555-5 Part # 201356-8	X	x		x			x	X	X	X	İs	201	via		x		X	cl		X	X		x	x	x	x	x	x		x	x	_	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538 1 43/64 x 21.538 1 21/32 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide Paint Snacks Delivery Tray Panel	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7 201690-9 201555-5		x	x	x	x		x	x	×	x	is	201	via		x		x	X		X	X		x	x	x	X	x	x		x		X	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538 1 43/64 x 21.538 1 21/32 x 31.887
Presidential Walnut Presidential Walnut Black Hide Black Hide Black Pika Black Pika Slate Slate Dove Grey Bison Black Dove Grey Black Hide Van Black Hide Paint Snacks Delivery Tray Panel Presidential Walnut	200526-2 201417 200526-10 201417-23 201417-18 200526-45 201417-25 200526-47 201417-21 200526-38 201417-2 201690-2 201690-7 201690-9 201555-5 Part # 201356-8		x		x	x	x	x	m t	x	x	is	201	via		x	x	5 C	X		×	X			x	X	X		x				X	2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 2 5/8 x 31.887 3.00 x 32.187 1 43/64 x 21.312 1 43/64 x 21.538 1 21/32 x 31.887 Dimensions 3.687 x 21.500
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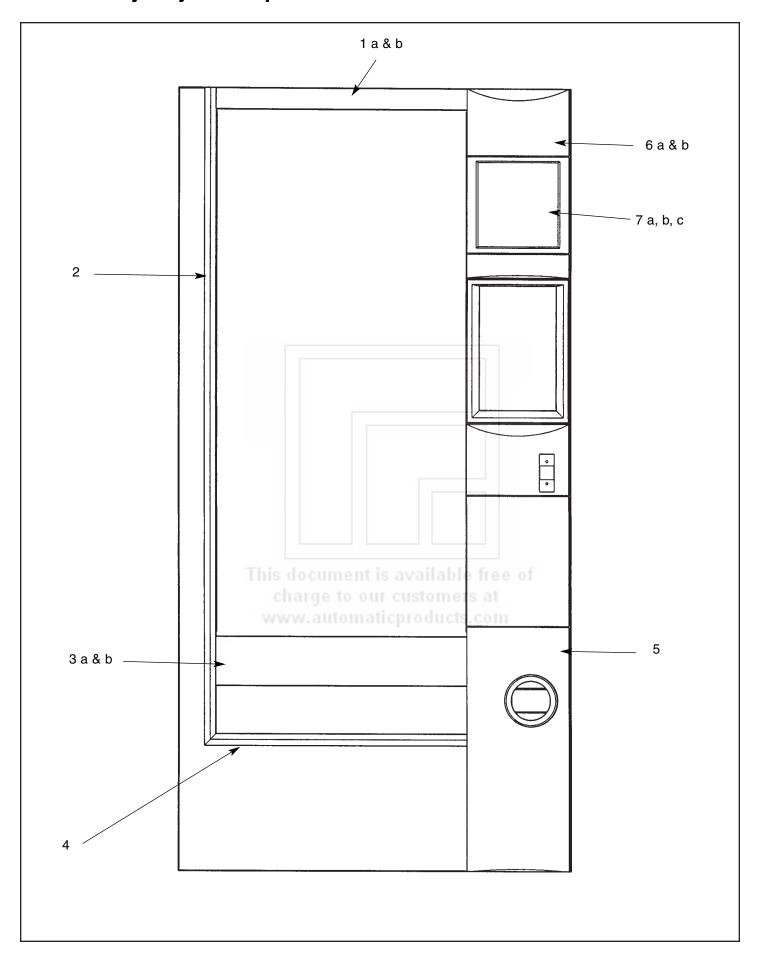
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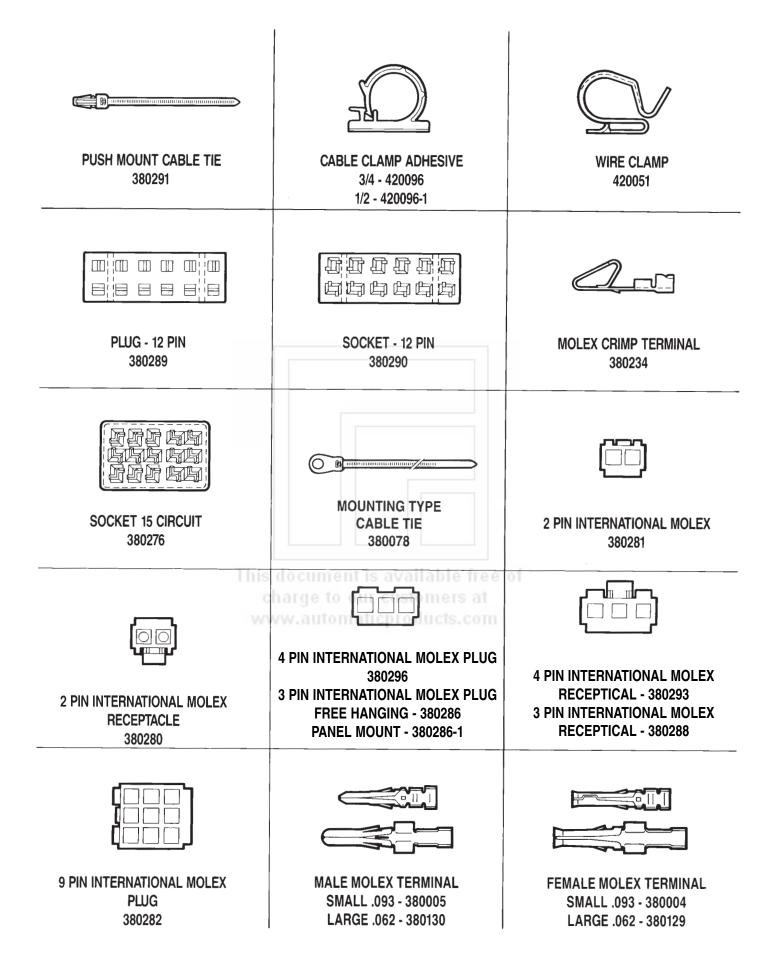
120 pariolo											Wal	Zry		u O		T	Ī			4)	ipe	쏤										
				٩	3	_		ling			CP3, Port Au Prince, Pres Wa	Sterling/Mis Bsn Blk, Mor Gry	wter	Sterling, Bison Black, Mission				_		Genesis, Black Hide, Stripe	Genesis, Black Hide, No Stripe	Genesis, Black Pika, all black					,ce	ey.				
				Vantage, Dove Grey	2	Plain		Sterling			nce,	쑮	e Pe	ack,			ī	Iron, Black Hide Plain Tron, Sterling Boyce	3	ide,	ide, l	ka,	Ω G		ها	lide	Aramark, Sterling Royce	Aramark, Trendline Grey				
129 PAN	ELS	_	ide	Ve Ve		<u>e</u>	Jika	CP3, Black Pika,		ğrey.	J Pri	Bsn	Slat	g uc	e S	ξ	-	Iron, Black Hide Plai Tron, Sterling Boyce	ite :	오 고	농 고	왕 교	Aramark, Dove Grey Aramark, Pika	je je	Aramark, Pres Wal	Aramark, Black Hide	ərling	ndlir				
		Pres Wal	VIP, Black Hide	Vantage, Dove Vantage Sterlir	CP3. Pres Wal	3 상 구	CP3, Black Pika	ack F	ate	CP3, Dove Grey	r A	Mis	MIS,	BISC	Iron, Dove Grey	Iron, Black Pika	บ -	S S S S S S S S S S S S S S S S S S S	Genesis, Slate	Ba	, Bla	Bla	Aramark, Dove	Aramark, Slate	, Pr	, Big	c, Ste	۲, Tre		쏤	e e	
		Pre	Bla	Tage	2 Z	m	, E	3, Bį	CP3, Slate	~ _ _	~, 2	ling/	jug E	g d	٦		Ton, Siale		esis	esis	esis	esis	nark	nark	nark	nark	nark	nark	≗) Bla	Euro Grey	
		VIP,	Ν,	Van	S G	SP	SPS	CPS	SPS	S	S	Ste	Ste	ο L	힏,	<u> </u>	<u> </u>	בֿן בֿ	Ge	Ger	Ger	Ge	A 4	Ara	Arai	Ara	Ara	Arai	Apollo	Eur	En	
Left Side Vertical Panel																																Dimensions
Presidential Walnut Presidential Walnut		Х			x					-		_	+	+	+	+	+		\vdash		\dashv		+	+	Х							2.031 x 53.875 2.031 x 51.218
Black Hide	202059-42		х		 ^	х												x		х	х					Х						2.031 x 53.875
Sterling Royce Van				Х												T	T															2.031 x 65.578
Sterling Royce	202059-54							х										Х														2.031 x 51.218
Black Pika	202059-61		_		-		Х					\perp	-		_;	X	1	\perp	ļ.,			X	Х	+	-							2.031 x 53.875
Slate Dove Grey	202059-58 202059-50		-	x	+				Х						-		(X					X								2.031 x 53.875 2.031 x 65.578
Port Au Prince	202059-5	Н	+	^	+					1	х				+	+			+		H			\vdash								2.031 x 51.218
Dove Grey	202059-45											\top									Ħ	>										2.031 x 53.875
Dove Grey	202059-16									х			1)	x																	2.031 x 51.218
Pewter Sterling	202059-7	П			Ē		Ĺ			J			х			1	1	1		П	\Box	\prod		L	L							2.031 x 53.875
Sterling Royce	202059-9		_		Н							_					4	-									Х					2.031 x 53.875
Bisson Black Trendline Grey	202059-63 202059-14	Н			Н								- 2	X	-	+	+	+	+		Н							Х				2.031 x 53.875 2.031 x 53.875
Morocco Grey	202059-56				Н							Х	t	t		t	t	#	$^{+}$		\forall			\vdash				^				2.031 x 53.875
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Black Hide	202805-7		х		^	Х				#						+		x	†	х	х					х						7.563 x 26.641
Sterling Royce	202805-9			Х																												7.563 x 37.898
Sterling Royce	202805-45							Х							Ш	1		X									Х					7.563 x 26.641
Black Pika Slate	202805-25		_		H		Х		.,	-		_	+	Н	- 1	X .		+	1		-	х	Х	_	-							7.563 x 26.641
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Dove Grey	202805-43			x	1				٠,		*	1	7		**	+	Ť	T	r		7											7.563 x 37.898
Port Au Prince	202805-11			C	18	Ц	J e	τ	0	-	х	(1)	US	T() III	n e		S 8	II.													7.563 x 26.641
Dove Grey	202805-31			ΛV	VV	4.1	à L	t(Ш	Х	ti	CD	П	od	Щ	ct	S.	0.0	П	Н	Н			-								7.563 x 26.641
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Bisson Black	202805-35		+									\dashv	+	x	^+						H											7.563 x 26.641
Morroco Grey	202805-21											Х																				7.563 x 26.641
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V	Part	No.		Γ.	/ ~	Part	No.	
Key	128	129	Description	Ľ	Key	128	129	Description
1a 1b 2 3a 3b 4 5 6a 6b 6c 7a 7b 7c	13400001-01 16400010 38647 13400002-01 16400011 1440009-01 38342 16600111 38355 38356 38497 38498 38499	16400010 38647 13400002 16400011	Retainer, Top Trim (3 required) Vertical Trim Delivery Bin, Trim Retainer, Bin Trim (3 required)					
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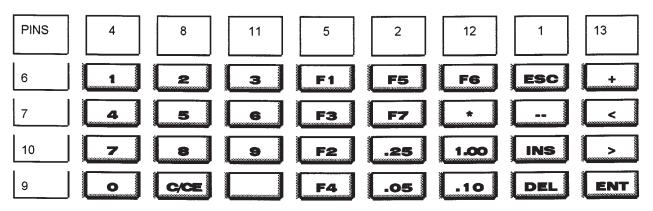
. trouble shooting chart

Problem	Symptom	Remedy
No Power	No Lights	Check Wall Outlet and Line Cord. Check for 120vac Where Line Cord Plugs into Power Box. Check On/off Switch.
	Lights Work No Power out to Logic Board.	Check 8vac and 24vac Breaker on Junction Box
	No Led on Logic Board	Check for 8vac and 24vac at J5 Connector Coming onto Logic Board.
Doesn't Accept Coin	No Power to Changer	Check for 8vac and 24vac at J5 Connector Coming onto Logic Board.
	Changer Unplugged	Plug in Changer
	Defective Changer	Replace Changer
	Defective Logic Board	Replace Logic Board
	Only Accepts one Coin	Machine Lost Vend Prices, Reprice and Test.
Won't Payout Change, Incorrect Change Returned	Changer Unplugged	Plug in Changer
	Defective Changer	Replace Changer
	No Power to Coin Payouts	Replace Logic Board.
This	Coins Jammed in Tubes - free o	Remove Coins
Use Correct Change	Coin Tubes Empty	Fill Coin Tubes
***************************************	Coin Tube Inventory Not Programed Correctly	Check Coin Tube Inventory.
	Defective Coin Tube Sensor.	Replace Coin Changer
Coin Mechanism Jackpots	Incorrect Voltage	Check Voltages <u>+</u> 10%
	Defective Coin Mechanism	Replace Coin Mechanism
	Defective Logic Board	Replace Logic Board
Won't Take Bills	No Coins in Coin Tubes	Fill Coin Tubes
	Belts or Stacker Don't Run on Power Up.	Check for 24vac at Validator.
	Belt Run, Bill Goes in Half Way but Won't Accept	Replace Validator.
	Incorrect Coin Tube Inventory	Check Inventory of Coin Tubes by Pressing F7.

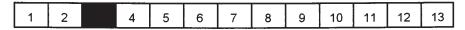
trouble shooting chart _____

Problem	Symptom	Remedy
Display Says Make Another Selection.	Motor Half Cycled	Open and Close 120 Cabinet Door to Home Motor.
	Motor Not Turned on in Configuration	Turn on Motor in Configure Motors Menu Item Then Open and Close 120 Cabinet Door and Machine Will Scan and Turn on That Selection.
	Motor Won't Turn	Press F6 to See If Motor Works in Test Vend, If it Does Check Motor Configuration, If Not Change Motor.
Multiple Motors Running Together.	Motor Wire or Cabinet Back Harness Shorted.	Check for Shorted Motor Wire or Cabinet Back Harness.
	Defective Logic Board	Replace Logic Board
Unable to Enter Mastermenu (Service Mode)	Bad Interlock Switch	Check Interlock Switch
	Defective Changer	Replace Changer
	Defective Logic Board	Replace Logic Board
Motor Doesn't Home on Door Clousure.	No Voltage	Check for Voltages
	Defective Door Switch	Replace Door Switch
	Defective Logic Board	Replace Locic Board.
No Lights	No Power to Lights	Check for 120 Vac out of Junction Box
	Defective Ballast	Replace Ballast, Loose Harness
	Defective Starter	Replace Starter

MasterMenu Keypad pinouts

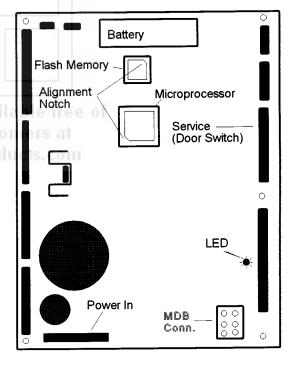


MasterMenu Plug Orientation



DIRECTIONS FOR INSTALLING SOFTWARE UPGRADE IN API120

- Turn off power to the Control Module and the Food Cabinet Wait 5 minutes for the large capacitor to discharge before working on the board. Identify and separate the three chips before beginning any work. The two chips for the Control Module are identified as LCB VX.XX.
- 2) Remove all connectors and covers from the control board.
- 3) Remove the battery from the LogiCenter Board (LCB), and observing proper anti-static procedures (grounded wrist strap) remove the two socketed chips, and replace. Refer to the drawing at right for the correct orientation of each chip.
- 4) Replace the board cover, and reinstall all harnesses. Before restoring power to machines, make sure that the Service Connector and Power Connector are plugged to the board correctly.



Control Board Installation Instructions

(For Lcb part's 360251 & 360274)



CAUTION: THE FOLLOWING PROCEDURES REQUIRES THAT ANTI-STATIC PRECAUTIONS MUST BE TAKEN OR DAMAGE TO THE CONTROL BOARD MAY RESULT!

When installing this board into any machine it is necessary that the board be reset to factory defaults.

Instructions to reset the board are as follows:

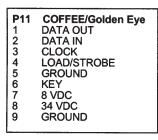
Install the board into the machine and reconnect all the harnesses and power up the machine.

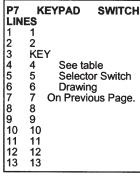
- 1. Open Machine/Tower door.
 - The display should say Enter for MasterMenu.
- 2. Press Enter.
- 3. Press the > until the display indicates Security.
- 4. Press Enter
- 5. The display will indicate Machine ID, press the < one time and the display will indicate Machine Reset N.
- 6. Press the + key the display will indicate Machine Reset machine Y.
- 7. Press the Enter key, The display will indicate Reset Messages.
- 8. Press the + key until the display indicates Reset All. le free of
- 9. Press Enter, the key and the display will indicate Are you Sure N.
- 10. Press the + key and the display will indicate Are you Sure Y.
- 11. Press the Enter key and board will beep and the display will default to Machine Reset N. The Board has now been set to factory default.
- 12. See quick set up reference page in the Service Manual for Instructions on programming the Control Board.
- 13. Open and close door on the 120 to scan selections.



P12 DISPLAY 5 VDC RXD/TO 2 3 **GND**

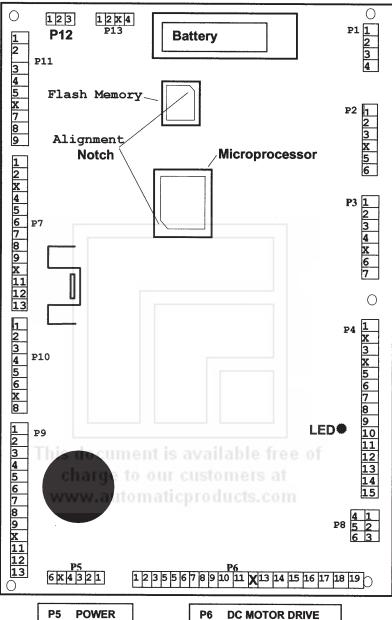
P13 **BATTERY VBAT** 2 **GND KEY GROUND**





EXECUTIVE RCV+ RCV -3 XMIT -**GND** 4 5 6 XMIT + 24Vac **KEY** 8 24Vac

P9 VALIDATOR ESCROW ENABLE HIGH \$1 ENABLE HIGH \$2 ENABLE HIGH \$5 ENABLE HIGH **ESCROW ENABLE LOW** 6 \$1 ENABLE LOW \$2 ENABLE LOW 8 \$5 ENABLE LOW CREDIT 10 KEY GND 24Vac HOT 12 13 24Vac NFUTRAL



DC MOTOR DRIVE **ROW 1 +** 2 **ROW 2 +** 3 **ROW 3 +** 4 5 **ROW 4 + ROW 5 + ROW 6+** 6

POWER

24Vac

24Vac

8Vac

8Vac

EARTH

GROUND

KEY

2

45

6

ROW 7 + 8 **ROW 8 +** COL 0 -10 COL 1-COL 2 -11 KEY 12 13 COL 3 -COL 4 -

14 15 COL 5 -16 COL 6 -17 COL 7 -

18 COL 8-19 COL9-

MEMORY UNIT DATA NO CONNECTION 2 3 KEY 4 **GND**

P2 RS232 SERIAL **INTERFACE** RECEIVE DATA GND 23456 TRANSMIT DATA **KEY** - 10 VOLTS +5 VOLTS

P3 SERVICE 34 VDC WINNER RELAY 2 3 LOCKOUT 4 GND 5 KEY 6 DOOR SW 7 GND

P4 MC5010 -24 VNFDC RET KEY 2 3 +24 VNFDC HOT 4 **KEY** 5 DATA 6 INTERRUPT ACCEPT ENABLE 8 RESET SEND 10 5VDC 11 **GND** 12 13 .05 .10 14 25 \$1.00 15

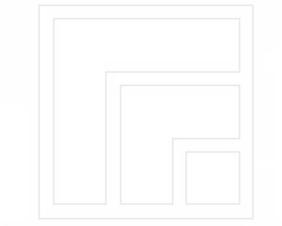
P8 MDB + **34 VDC** 2 **PWR GND** 3 8 VDC MASTER RXD 4 5 MASTER TXD COMMUNICATION COMMON



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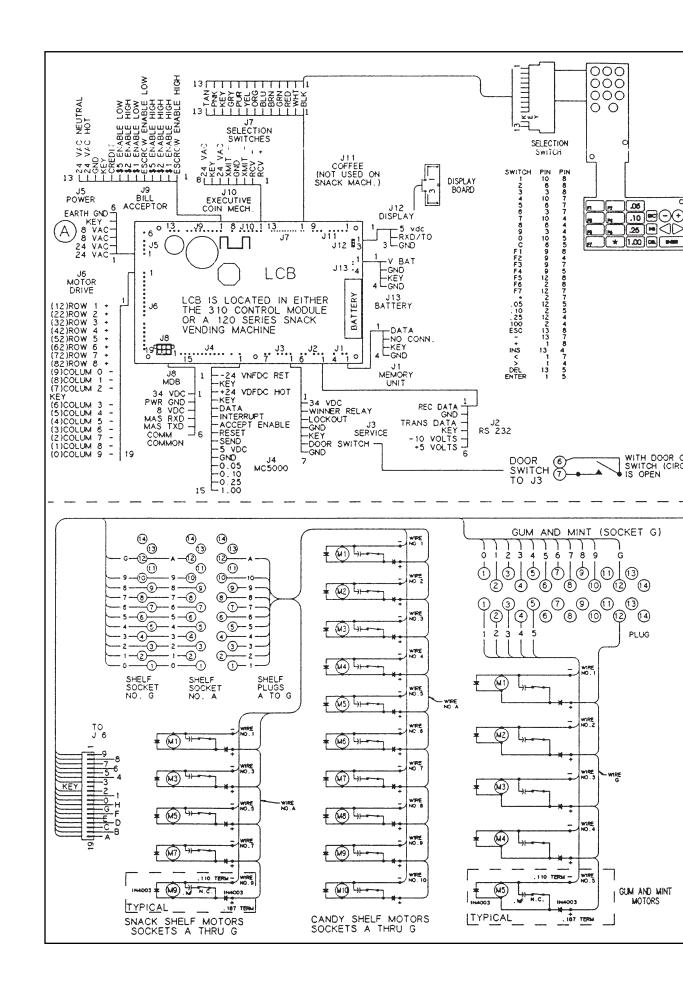


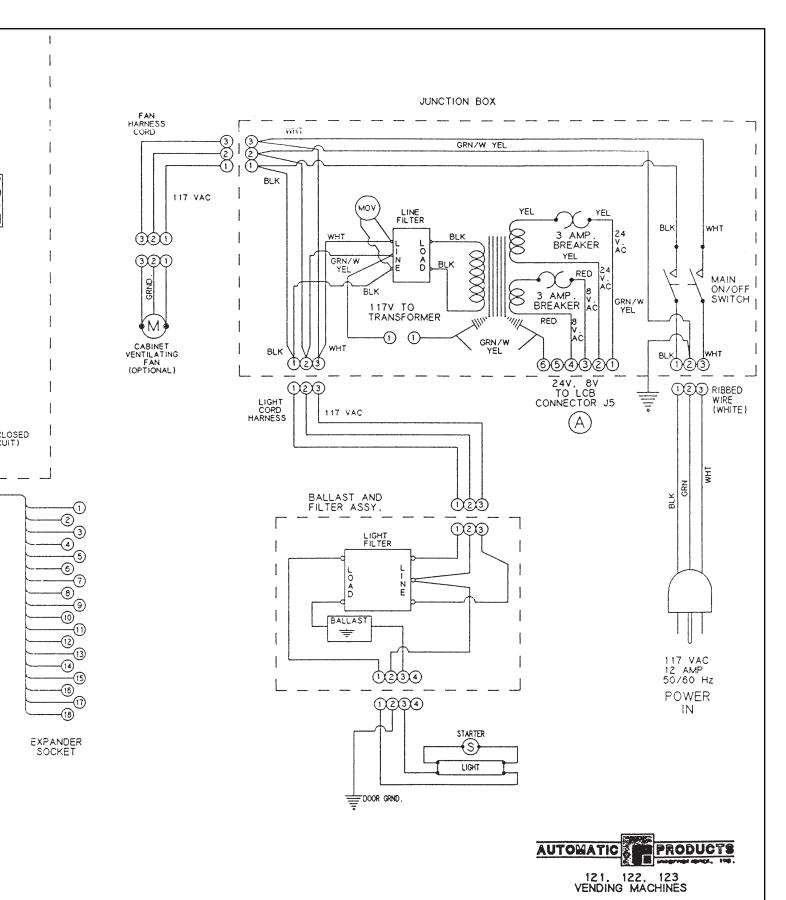
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notes





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