## AUTOMATIC PRODUCTS international, Itd.

# OPERATING SYSTEM 

## PARTS MANUAL

## SERVICE MANUAL

## MODEL 128-129 SNACK/CAN MERCHANDISER

Please Do Not<br>Remove Manual from Machine

## AUTOMATIC



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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.

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The APi 120 series features the MasterVend ${ }^{T M}$ Control System and MasterMenu ${ }^{\top T M}$ 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.


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'I Itd. 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:


## 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 ${ }^{\text {TM }}$ online software.
- Transportable memory unit.


## COIN MECH

$\underline{24}$ 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 - $331 / 2$ inches
Depth - $275 / 8$ 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 $70 \mathrm{db}(\mathrm{A})$.
Acceptable ambient operating temperature range.
All equipment manufactured by Automatic Products intl Itd. is designed to work properly in a temperature range of $10^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}\left(50^{\circ} \mathrm{F}\right.$ to $104^{\circ} \mathrm{F}$ ) in still air ( $75 \%$ R. H. noncondensing). The machine is capable of being stored in a temperature range of $-18^{\circ} \mathrm{C}$ to $+68^{\circ} \mathrm{C}\left(0^{\circ} \mathrm{F}\right.$ to $\left.155^{\circ} \mathrm{F}\right)$. 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


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 | 7-3/4" | 2-1/2" to 5-1/4" | 1" to 2-14" | 4-Item Spiral 3" | 3-Item Spiral 3-15/16" |
| Second | 7-1/4" | 2-1/2" to 5-1/4" | 1" to 2-14" | 6-Item Spiral 2-3/32" | 6-Item Spiral 1-15/16" |
| Third | 6-3/8" | 2-1/2" to 5-1/4" | 1" to 2-14" | 8-Item Spiral 1-9/16" | 8-Item Spiral 1-1/2" |
|  |  |  |  | 10-Item Spiral 1-7/32" | 10-Item Spiral 1-1/8" |
|  |  |  |  |  | 12-Item Spiral 15/16" |
|  |  |  |  |  | 16-Item Spiral 11/16" |
|  |  | Chis dr |  | 1raen 0 | 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 375 Cans (Aust.) Using 355 ml Cans (Domestic)  <br> 15 Cans in Long Track 15 Cans in Long Track 15 Cans in Long Track  <br> 9 Cans in Short Track 9 Cans in Short Track 8 Cans in Short Track  <br> 96 Cans Total (8 select) 72 Cans Total (6 select) 92 Cans Total (8 select)  <br>     <br> 88 cans vendable with one can in each column by sold out switch (8 select).    <br> 66 cans vendable with one can in each column by sold out switch (6 select).   . |
| :--- |

Unless otnerwise 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 |


| 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 | $73 / 4{ }^{\prime \prime}$ | $21 / 2^{\prime \prime}$ to $51 / 4^{\prime \prime}$ | $1^{\prime \prime}$ to $2^{1 / 4^{\prime \prime}}$ | 6-Item Spiral 33/32" | 6-Item Spiral 27/8" |
| Second | 71/4" | $21 / 2^{\prime \prime}$ to $51 / 4^{\prime \prime}$ | $1^{\prime \prime}$ to $2^{1 / 4^{\prime \prime}}$ | 7-Item Spiral $\mathbf{2 1}^{21 / 32^{\prime \prime}}$ | 7-Item Spiral $\mathbf{1 1}_{1 / 21}$ |
| Third | 65/8" | $21 / 2^{\prime \prime}$ to $51 / 4^{\prime \prime}$ | $1^{\prime \prime}$ to $214^{\prime \prime}$ | 10-Item Spiral $17 / 8^{\prime \prime}$ | 9-Item Spiral 115/16" |
| 12-Item Spiral $19 / 1^{\prime \prime}$ 10 -Item Spiral $13 / 4^{\prime \prime}$ <br> 15 -Item Spiral $17 / 32^{\prime \prime}$ 12 -Item Spiral $11 / 2^{\prime \prime}$ <br> il 18 -Item Spiral $1 \prime$ 15 -Item Spiral $11 / 8^{\prime \prime}$ <br> 30 -Item Spiral $1 / 2^{\prime \prime}$ 18 -Item Spiral $15 / 16^{\prime \prime}$ <br> 40 -Item Spiral $5 / 16^{\prime \prime}$ 24 -Item Spiral $11 / 16^{\prime \prime}$ <br>  30 -Item Spiral $1 / 2^{\prime \prime}$ <br>  40 -Item Spiral $3 / 16^{\prime \prime}$ |  |  |  |  |  |
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| 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: 387/"
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.

$$
\text { LOW SIDE: } 162 \text { P.S.I. }
$$

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 neccessary for preparation to install it on location. The following steps are recommended to insure correct unpacking.

1. Shipping Damage: Thoroughly inspect the exterior of the carton for damage which may have occurred during shipment. Report any damage to delivering carrier and follow their instructions.
2. Remove staples from lower edge and those at top of carton, and slit carton vertically at the taped corner. Open and remove carton. Remove the remainder of the packing material. On machines shipped with lock in place, the keys are taped inside the coin return.
3. 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.

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.
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.
7. 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.

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.

vending of products wider than $51 / 2$ " in the second column. If this is used the right column must be used to vend a narrower product.


Figure 1.4: Alignment of movable product spacers.

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 $41 / 2$ " 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.


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

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 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 $1 / 8^{\prime \prime}$ clearance between the spacer and the product.


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

## 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.

1. 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)
2. 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.
4. 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".

# optional equipment 

## 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.
- $\quad 5 \mathrm{MB}$ 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 (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.

1. Open Machine/Tower door, the display should indicate "Enter for MasterMenu".
2. Press Enter
3. Press the > until the display indicates
"Configuration".
4. Press Enter
5. Press the > until the display indicates
"Configuration Load".
6. Press Enter, the display should read "MasterMenu Online".
7. Press the + until the display indicates "Tmu Upload" ( from Tmu to Lcb) or "Tmu Download" (From board to Tmu).
8. Press Enter
9. The display will indicate "Awaiting Download" or "Awaiting Upload".
10. 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".

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.

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) <br> (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.

## 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 ( $1 / 2$ 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
(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 ${ }^{\text {TM }}$

The optional Golden Eye ${ }^{\text {TM }}$ 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.

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

## optional equipment

## 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 $55^{\circ} \mathrm{F}$ to $100^{\circ} \mathrm{F}\left(13^{\circ} \mathrm{C}\right.$ to $\left.38^{\circ} \mathrm{C}\right)$.

## 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 $40^{\circ} \mathrm{F}$ to $70^{\circ} \mathrm{F}\left(4^{\circ} \mathrm{C}\right.$ to $20^{\circ} \mathrm{C}$ ). The recommenced temperature for this machine is $42^{\circ} \mathrm{F}\left(6^{\circ} \mathrm{C}\right)$. The Digital Temperature Control will maintain the temperature as measured by the temperature probe ( $\mathrm{P} / \mathrm{N}$ 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 $-9^{\circ} \mathrm{F}\left(-9^{\circ} \mathrm{C}\right)$. A shorted or closed probe will display as $99^{\circ} \mathrm{F}\left(37^{\circ} \mathrm{C}\right)$.

## 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 "[fs 1 Rimsent --- F".
3. Press the $>$ and the t in ambient will start flashing.
4. Press the + key until the display says "[98 1 [nitice +70 F ".
5. Press the $>$ and the " +70 " 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 " $[$ ".

## Setting the Fan Speed on a Digital Temperature

 Control:Pressing both programming buttons at the same time will toggle the display between ${ }^{\circ} \mathrm{F}$ (Fahrenheit), ${ }^{\circ} \mathrm{C}$ (Celsius) and FA (Fan Adjustment). Releasing both buttons when FA is displayed will show the current fan speed.

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 $2^{\circ} \mathrm{F}$ and will be turned off at the target temperature minus $2^{\circ} \mathrm{F}$. 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 $1 / 2$ 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:

A. Lift up and push the lock levers toward the back of cabinet.
B. Pull the shelf to its loading position.
C. Grasp shelf in front and rear center. Lift front of shelf up above horizontal and pull shelf forward while lifting.
D. To install shelf, reverse above procedure.

## 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.
B. 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 righthand 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.

## 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 Model |  |
| :---: | :--- |
| Coinco |  |
| Mars | 9302 LF |
|  | TRC-6010X |
|  | VN-4010 |
| Muti Drop | Bus Models |
| Mars |  |
|  | TRC-6510 |
| Coinco | VN-4510 |
|  | $9302-G X$ |

## 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.

## 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.

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 ${ }^{\text {TM }}$ 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 ${ }^{\top M}$ 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

## alobloblololole

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- | Selection Wire 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 ${ }^{\top M}$ 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 ${ }^{T M}$ 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.


Figure 2.4


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## components

## MasterMenu ${ }^{\text {TM }}$ Keypad

The MasterMenu ${ }^{\top M}$ keypad (see figure 2.3) is located on the front of swing out panel directly below the selection keypad. The MasterMenu ${ }^{\text {TM }}$ 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 ${ }^{\text {TM }}$ keypad consists of seven function buttons, a key, four coin payout buttons and the eight keys used to operate the MasterMenu ${ }^{\text {TM }}$ 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 [ $\mathbb{F}$ ] through [ [ 77 ] 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 $\boxed{0}, \boxed{0}, 10, \square .25$ 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 $\square .10$ 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 ${ }^{\text {TM }}$ 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 $\square$ and $\square$ keys provides are used for incrementing and decrementing the available choices in a menu.
Note: Anywhere in this manual that the or $\square$ keys are defined to sequence through numeric data, the front panel may be used as an alternate input source.

The $\square$ and $\square$ 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 $\mathbb{I N S}$ 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 ${ }^{\text {TM }}$ System.

## Control System and Boards

The MasterVend ${ }^{\text {TM }}$ 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: (, ), [, ], ., ', -, =, \$, /, <br>, *, ^, +, , , ,", ?, _.


## 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 ${ }^{\top M}$ 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.

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 $\square 1$ 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

Depress and hold down thekey while pressing F2 on the MasterMenu keypad.
The display will indicate "Set Temperatures" Press ENTER.
The display will prompt "Cab 1 Ambient".
Press the $\triangle$ one time the t in the word Ambient will start flashing.
Press the $\square$ and the display will prompt "Cab1 Chilled +32 F".
Press thekey and the temperature will start flashing.
Press thekey 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 $\square$ 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 $\square$ to Scroll through the error list.
Pressing F2 when viewing an Error will cause extended diagnostics to be displayed.
Press ESC to exit or $\square$ to go to next error.

## Press F3 - Clear Errors Menu

Press $\square$ or $\square$ 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 $\square 1$ 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 $\square$ 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 0.000 .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 $\triangle 1$ time to change the paired state of the motor.Use the $\square$ and $\square$ 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 * F2 - Set Temps

Press ENTER to access Set Temperatures menu. Use the $\square$ and $\square$ keys to move through cabinet, temperature range, target temperature and temperature scale fields.
Use the $\square$ and $\square$ 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 $\square$ and to move left or right through the time/date fields.
Use the $\square$ or $\square$ 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 $\square$ and $\square$ to toggle between $\mathrm{Y} / \mathrm{N}$.
Press ENTER to commit to changes.

## Press * F5 - Trap Door Test

Press ENTER to access Trap Door Test Menu.
Use the $\square$ and $\square$ to move through the door operation and cabinet fields.
Use the $\square$ or $\square$ to toggle the above fields Press ENTER to start test.

Press * F6 - Transmit MIS Data
Press ENTER to access Transmit MIS Data.
Use the $\boxed{\square}$ and $\square$ 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 midnight.

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## Introduction

The APi MasterMenu ${ }^{\text {™ }}$ 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.

## mastermenu ${ }^{\text {TM }}$ system

The MasterMenu ${ }^{\text {TM }}$ 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 ${ }^{\text {M }}$ System.


The following is a quick reference for the keys on the MasterMenu ${ }^{\text {TM }}$ 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.

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.

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.Used for incrementing and decrementing the available choices in a menu .
Note: Anywhere in this manual that the $\square$ or keys are defined to sequence through numeric data, the front panel may be used as an alternate input source.

INS Used to insert a character to the left of the current cursor position.
Note: Depressing a function key will not cause you to enter the MasterMenu ${ }^{\text {TM }}$ System.

## 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 MasterMenu ${ }^{\text {TM }}$ 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.

Figure 1.2

| MIS MENU | SETUP MENU | CONFIGURATIONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## 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

Whewhistorical mins
h TOT SRtes 00.00
Vicu literval mill
; TOT Spess 00.00

Press ENTER
Use the < or > keys to scroll through the MIS Data.
Press ENTER
Use the < or > keys to scroll through the MIS Data.

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

| NAME |
| :--- |
| Total Value of Sales |
| Number of Vends |
| \# of Test Vends |
| \# of MIS Resets |
| \# of Machine Resets |
| Number of Bills Stacked |
| Value of Coins To Tubes |
| Value of Coins In Tubes |
| Value of Cash Dispensed |
| Value of Cash Dispensed Manually |
| Value of Cash In |
| \# of Free Vends |
| Value of Free Vends |
| \# of Token Vends |
| Value of Token Vends |
| Value of Coins To Cash Box |
| Value of Discount, Discounted Vends |
| \# of Discounted Vends |
| Value Discount, for Combo Vends |
| \# of Combo Vends |
| \# of Winner (Free) Vends |
| Value Winner (Free) Vends |
| \# of Card Vends |
| Value of Card Vends |
| Value/Number of Vends by Cabinet |
|  |
| Value/Number of Vends By Sel \# |
| Time of Last Vend By Selection \# |
| Last Defrost Cab-1 |
| Last Defrost Cab-2 |
| Door History For Tower |
| (Repeated For Last 5 Openings) |
| Door History Cab-1 |
| (Repeated For Last 5 Openings) |
| Door History Cab-2 |
| Iar |

## Mach Id \#

Mach Asset \#
Mach Serial \#
Software Version \#

Display Format of Historical MIS
hTOT SALES 000000.00
h\# VENDS 0000000
h\# TEST VNDS 0000000
h\# MIS RESETS 0000000
h\# MACH RESET 0000000
h\$ BILLS 000000.00
$\mathrm{h} \$$ to TUBE 000000.00
$\mathrm{h} \$$ in TUBE 000000.00
h\$ DISPENSED 000000.00
h\$ MAN DSP 000000.00
h\$ CASH IN 000000.00
h\# FREE VENDS 0000000
h\$ FREE VENDS 000000.00
h\# TOKEN VENDS 0000000
h\$ TOKEN VENDS 000000.00
h\$ BOX 000000.00
h\$ OF DISC 000000.00
h\# DISC IIt 0000000
h\$ COMBOS 000000.00
h\# COMBOS 0000000
h\# WINNERS 0000000
h\$ WINNERS 000000.00
h\# CARD VENDS 0000000
h\$ CARDS 000000.00
h\$/\# BY CABINET
C01- 00000.00000000
C02- 00000.00000000
h\$/\# BY SELECTION NUMBER
TIME BY SELECTION
110- HH:MM DD/MM/YY
DEF1-HH:MM DD/MM/YY
DEF1- HH:MM DD/MM/YY
DOOR OPEN TOWER
1-MM HH:MM DD/MM/YY
DOOR OPEN CAB-1
1-MM HH:MM DD/MM/YY
DOOR OPEN CAB-2
1-MM HH:MM DD/MM/YY
MACH ID 1234567890
API1234
SER NUM 123456789012
PXX LXX.XX C1XXC2XX

| Display Format of Interval MIS iTOT SALES 000000.00 |
| :---: |
| i\#VENDS 0000000 |
| i\# TEST VNDS 0000000 |
| i\# MIS RESETS 0000000 |
| i\# MACH RESET 0000000 |
| i\$ BILLS 000000.00 |
| i\$ TUBES 000000.00 |
| i\$ TUBES 000000.00 |
| i\$ DISPENSED 000000.00 |
| i\$ MAN DSP |
| i\$ CASH IN 000000.00 |
| i\# FREE VENDS 0000000 |
| i\$ FREE VENDS 000000.00 |
| i\# TOKEN VENDS 0000000 |
| i\$ TOKEN VENDS 000000.00 |
| i\$ BOX 000000.00 |
| i\$ OF DISC 000000.00 |
| i\# DISC 0000000 |
| i\$ COMBOS 000000.00 |
| i\# COMBOS 0000000 |
| i\# WINNERS 0000000 |
| i\$ WINNERS 000000.00 |
| i\$ CARD VENDS 0000000 |
| i\$ CARDS 000000.00 |
| i\$/\# BY CABINET |
| C01-00000.00 000000 |
| C02-00000.00 000000 |
| i\$/\# BY SELECTION NUMBER |
| TIME BY SELECTION |
| 110- HH:MM DD/MM/YY |
| DEF1- HH:MM DD/MM/YY |
| DEF1-HH:MM DD/MM/YY |
| DOOR OPEN TOWER |
| 1-MM HH:MM DD/Mm/YY |
| DOOR OPEN CAB-1 |
| 1-MM HH:MM DD/MM/ |
| DOOR OPEN CAB-2 |
| 1-MM HH:MM DD/MM/YY |
| MACH ID 1234567890 |
| API1234 |
| SER NUM 123456789012 |
| PXX LXX.XX C1XXC2XX |TOT SALES 000000.00i\#VENDS 0000000

i\# TEST VNDS 0000000
i\# MIS RESETS 0000000
i\# MACH RESET 0000000
i\$ BILLS 000000.00
i\$ TUBES 000000.00
i\$ TUBES 000000.00
i\$ DISPENSED 000000.00
i\$ MAN DSP
i\$ CASH IN 000000.00
i\# FREE VENDS 0000000
i\$ FREE VENDS 000000.00
\# TOKEN VENDS 0000000
i\$ TOKEN VENDS 000000.00
i\$ BOX 000000.00
\$ OF DISC 000000.00
i\# DISC 0000000
i\$ COMBOS 000000.00
i\# COMBOS 0000000
i\# WINNERS 0000000
i\$ WINNERS 000000.00
i\$ CARD VENDS 0000000
i\$ CARDS 000000.00
i\$/\# BY CABINET
C01- 00000.00000000
02-00000.00 000000
TIME BY SELECTION
110- HH:MM DD/MM/YY
DEF1- HH:MM DD/MM/YY
DEF1-HH:MM DD/MM/YY
DOOR OPEN TOWER
1-MM HH:MM DD/MM/YY
DOOR OPEN CAB-1
1-MM HH:MM DD/MM/YY
DOOR OPEN CAB-2
1-MM HH:MM DD/MM/YY
MACH ID 1234567890
API1234
SER NUM 123456789012
PXX LXX.XX C1XXC2XX

| M I S MENU | SETUP MENU | CONFIGURATIONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Display

 Transmition iex

Press ENTER
Use the > to PRHTER or Press ENTER to TRRMSmitionex (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 PRMATER

Table 4.2

| DEX/UCS | Definition |
| :---: | :---: |
| $\begin{aligned} & \text { ID1*0987654321*LCB120*3993* } \\ & \text { API**1234567890 }^{*} \\ & \hline \end{aligned}$ | * Serial \# * Model \# * Software Version * Machine Location** Machine ID \# |
| 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) * <br> Value of Winner (free) Vends (I ) * Number of Winner (free) Vends (I) |
| TA2*** ${ }^{*} 0^{*} 0^{*} 0$ | *** 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) <br> * Value of bills to box (I) * Value of Cash in (H) * Value of cash to box (H) <br> * 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) * <br> Value of Cash Dispensed (H) * Value of Cash Manually Dispensed (H) |
| CA7*50*50 | * Value of Discounts ( 1 ) * Value of Discounts (H) |
| CA15*0 | Value of Coin Tubes |
| DA2*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 (I) |
| MA5*COMBO*50* ${ }^{*} 50{ }^{*} 1$ | * Combo * Value of Combo Vends (H) * \# of Discount Vends (H) * Value of 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 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 all selections in the machine) | * Selection \# * Selection Price * Product code * Spiral Count |
| PA2* ${ }^{*} 2500^{*} 7^{*} 250$ (duplicated for all selections in the machine) | * \# of Vends for PA1 above (H) * Value of Vends (H) * \# of Vends (I ) * Value of Vends (I) |
| PA5*TIME*020421*1655 (duplicated for all selections in the machine) | * Time of last Vend for PA1 above * YYMMDD * HHMM Note: If date $=000000$ Selection is not in use. |
| EA1*M DOOR <br> 1*020421*1655*60 (repeated 5 times for last 5 door openings) | * Last Time of Door Opening for Tower or Snack * YYMMDD * HHMM * MM, \# of Minutes Door was Open |
| EA1*C1 DOOR 1*000000*0000*00 (repeated 5 times for last 5 door openings) | * Last Time of Door Opening for Cabinet 1 * YYMMDD * HHMM * MM, \# of Minutes Door was Open |
| EA1*C2 DOOR 1*000000*0000*00 (repeated 5 times for last 5 door openings) | * Last Time of Door Opening for Cabinet 2 * YYMMDD * HHMM * MM, \# of Minutes Door was Open |
| 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
$\mathrm{H}=$ Historical vends

| MIS MENU | SETUP MENU | CONFIGURATIONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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 (1) |  |  |  |
| 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 |  |  |  |
| MA502 | S | Value of Coins in Tubes | PA101 | F | Selection Number 110 Header |
| MA501 | S | \# of Discounted Vends Header | PA102 | F | Product Price Delection \# 110 |
| MA502 | S | Number of Discounted Vends (H) | PA103 | F | 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 (1) |
| 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: PA101-EA103 is repeated for each selection. |  |
| EA102 | S | YYMMDD of Last Defrost Cab 2 |  |  |  |


| MI S MENU | SETUP MENU | CONFGGURATON MENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Display
CLERR RIIS DRTR - II Pressing the + key to toggle the IV (no) to $\triangle$ (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.

Tue Fut
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
$T 0=000 \mathrm{KX} . \mathrm{KX} \quad$ TO is the tube $\#$ of the last coin inserted (1-4, O for a non tube coin) 0000 is the value of the coins in the tube shown.
$X X . X X$ is the value of coins in all tubes.

Soffige Rension P930 104.00 C17 5217

## Press ENTER

PO 90 is the software version of the Microprocessor on the logic board. ( large chip).
104.00 is the software version of the Flash Memory chip on the logic board. (small chip).
[ill is the software version of the Flash Memory chip on the Food Driver Board (small chip) in cabinet 1. [2l] is the software version of the Flash Memory chip on the Food Driver Board (small chip) in cabinet 2.

Setup :new fils
Press ENTER and the display will prompt you with the first viewable MIS item:
HTOT SRLEES-乌
Use the < or > key to scroll through the list of viewable MIS items. Press the + key to toggle the リ (yes) to (no) to II (no) if you do not want the item shown to be viewed in the View MIS Menu. 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) | - T1 | - ${ }^{\text {- }}$ - | tis 0 | Wle 0 | - |  | 0 |
| \#/PROD | - | - | - | - | - |  | - |
| \$/PROD (Sale Price) | - | - | 0 | 0 | - |  | 0 |
| \#/TESTVEND |  | wW.atiol | aticplodi | cis.coll |  | - |  |
| \#/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.

| MIS MENU | SETUP MENU | CONFIGURATIONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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
But Escrou - it Use the + or - key to change between II, FREST or Last. Press ENTER to commit to any changes.
$\mathbf{N}$ - Disables bill escrow and all bills will be stacked. Pressing the coin return the customer will receive all change.
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.

| Freclveriory | Use the + or - key to change between III (no) and $\unlhd$ (yes). Press ENTER to commit to any changes. |
| :---: | :---: |
|  | When Free vend is set to yes the display will prompt "RLL $\operatorname{Heff}$ RRE fREE" unless overridden by point of sale message. |

Whiner Vene -GFF 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 50. . Press ENTER to commit to changes.
When a customer wins an item, credit will be returned to the customer and the display will indicate ${ }^{* * *}$ unswler*** 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.
 you choose $\zeta$ the display will prompt:
Theour - 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.

Forcelvero - M Use the + or - key to change between $N(n o$ and $\zeta$ (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.

Thfolit - 20 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.

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 $Y Y Y$ 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 N (not active) and $\zeta$ (active). This allows you to program in combo vends and turn then on and off as desired.

| MI S MENU | SETUP MENU | CONFIGURATIONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| Flix Prubut - it | Use the + or - key to change between $\mathbb{N i}$ (no) and $\bigsqcup$ (yes). Press ENTER to commit to any changes. |
| :---: | :---: |
| Fix Pryout - Bl .00 | When to choose $\unlhd$ 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. |

Pryont - Leneming
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.

## 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 <br> Speech Enable | Spiral Count | Setup Printer |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Set Lockout | Set Free Coupon | Set Defrost |  |  |  |

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

Morge Pairs Allows you to pair any even numbered motor may be paired with the odd numbered motor next in sequence.
Pat Fiotor 110 it To pair motors Press the > one time this will cause the ill (no) to start flashing.
Press the + key, this will change the $N \mathrm{il}$ to $\sqcup$ (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 Ni (no).

EOHFERRTign Allows the uploading or downloading of information to or from the logic board. Press ENTER and the Lo80 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.

Sei Temprature Press ENTER, the display will prompt:
[rsi Rinteni ---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.

| MIS MENU | SETUP MENU | CONFIGURATONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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:
Fi-9H5
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 | *F6 |
| SETUP DEFROST | *F7 |
| WINNER VEND | OPEN |
| MULTIVEND | 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 | OPEN |
| SHUTDOWN OPTIONS | OPEN |
| SET USER MESSAGES | OPEN |
| OUT OF SERRICE MESSAGE | OPEN |
| AFTER SALE MESSAGE | OPEN |
| SET SCROLLING | OPEN |
| SET MENU ORDER | OPEN |
| SERIAL NUMBER | OPEN |

Set Spirgh Lountin

Spispl 1100 il Press the > two times to ill (no)
Press the + or - key one time to $\unlhd$ (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.
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 il to $\unlhd$ 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 il (no) and $\sqcup$ (yes). Press ENTER to commit to any changes. When Spiral Count is set to yes the display will prompt:

5etup Printer
B840-9600 Mi81

## configuration menu heading



Specth Sunthests - in Use the + or - key to change between it (no) and $\triangle$ (yes). When $\zeta$ 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.


## 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

N/Ew 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 STALLED •CAB X DEFROST ERROR
•MOTOR XYZ STUCK HOME •BAFFLE X CURRENT
•MOTOR XYZ DIDNT HOME •BAFFLE X TIMEOUT
- MOTOR XYZ OFF HOME -HEALTH SHUTDN CAB X
```

- MOTOR XYZ MISSING

CLERR ERRORS - il Use the + or - key to change between il (no) and $\rfloor$ (yes). Pressing ENTER, when set to $\zeta$ will cause all errors to be cleared.

| TESt DEnC-it | Use the + or - key to change between $N$ (no) and $\unlhd$ (y cause the display to prompt: |
| :---: | :---: |
| Test Vene Riture | The Selection buttons will become active allowing test turn Test Vend off. |

Test motors
Test flotor - -

Press ENTER will prompt:
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 Brffe Coors


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.

| MI S MENU | SETUP MENU | CONFIGURATIONMENU | 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 BHCOLHy Thes BISC OI OH:OH-OUOH
"STTTLUTFS"

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.
$\mathbf{0 0 . 0 0} \mathbf{0 0 . 0 0}$ 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: B150 $0119: 00-23: 59$ Bisc 02 00:00-07:00

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 Oiscount Mpigns Discoumitems 010.00 A

Press ENTER. The Display will prompt:
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 ill (no) or $\zeta$ (yes) indicated the current status of Discount period 1. Use the + or - keys to toggle between il and ப. Press "ENTER" the display will prompt:

Press < one time to HP (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.

| MI S MENU | SETUP MENU | CONFIGURATION MENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Set Thfe/Drite


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 ShuTocum Tincs <br> 5wid $0100: 00-00: 00 "$

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: "5hlit 01 19:00-23:59 5H4T0200:00-07:00

Pressing ENTER when viewing a Shutdown will change the display to:
SmTHTFS
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 SHITTOLHM OPTHINS SHLTOCLHMEMS OIN

015 5utocin -
Press ENTER. The Display will prompt.
ITEMS 01 is referring to Shutdown period 1 programmed above.
The ill (no) or $\zeta$ (yes) indicates the current status of Shutdown period 1. Use the + or - keys to toggle between ill and $\lrcorner$. 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 .

## 

Press the > one time to il (no)
Press the + or - key one time to $\unlhd$ (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.

## 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
PRIEE RSSIGHTIENT Press ENTER to set prices, the display will prompt:
$11000.50001 \quad 110$ - is the selection number, $\mathbf{0 0 . 5 0}$ - 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.
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.

Press ENTER to check prices currently set the display will prompt:
11000.50001

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


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 MENH GROER This menu allows you to change the order that the Menu Headings appear on the display.
FIENHI 1-ms 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.

| RLit Linghige - M | This menu allows you to use an alternate language for all messages. Use the + or $-k e y$ to toggle between Y and N . <br> $\mathbf{N}$ - indicates all messages will be shown in English. <br> Y - Indicates all messages will be shown in the alternate language programmed by MasterMenu Online. <br> Press ENTER to commit to any changes. |
| :---: | :---: |

SET USER MESSRGE
POS-F EDHIT

USER RESSRGE \# 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 ( $\mathrm{F}, \mathrm{A}, \mathrm{B}$ 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.

| MI SMENU | SETUP MENU | CONFIGURATONMENU | DIAGNOSTIC MENU | SECURITY MENU | TIME FUNCTIONS | PRICE MENU | DISPLAY MENU |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |

## display menu heading

SET OUT OF SERVIIE 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 RFTER SRLE MESSREE 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:
Think Sillig minit 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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## inner door, square \& euro



| Key | Part No. |  | Description |
| :---: | :---: | :---: | :---: |
|  | 128 | 129 |  |
| 1 | 600808 | 600810 | Door Only Square, Specify Color |
|  | 600809 | 600811 | Door Only Euro, Specify Color |
|  | 600808-1 | 600810-1 | Door Only Square, with Validator and Debit Card Cut Out, Specify Color |
|  | 600809-1 | 600811-1 | Door Only Euro, with Validator and Debit Card Cut Out, Specify Color |
| 2 | 440444 | 440444-2 | Trim Ring, Black |
|  | 440441-1 | 440444-3 | Trim Ring Gray |
| 4 | 660319-1 | 660319 | T-Handle and Lock Arm Assembly (4 \& ) Chrome |
|  | 16600254-01 | 6600254 | T-Handle and Lock Arm Assembly (4 \& ) Brushed |
|  | 420146 | 420146 | T-Handle Only W Nut, Chrome |
|  | 17200002 | 17200002 | T-Handle Only W Nut, Brushed |
| 5 | 640123 | 640131 | T-Handle Lock Arm |
| 6 | 118-10-8 | 118-10-8 | Carriage Bolt \#10-24 |
| 7 | 404-10 | 404-10 | Hex Nut, \#10-24 |
| 8 | 276-6R6 | 276-6R6 | Screw Pan Head Phil. Type 23 \#6-32 x 1/4 |
| 9 | 400112 | 400112 | Lock Bar Spring |
| 10 | 600243-3 | 600243-3 | Lock Bar |
| 11 | 440411 | 440411 | Coin Cup Trim, Black |
|  | 440411-1 | 440411-1 | Coin Cup Trim, Gray |
|  | 660581 | 660581 | Coin Cup Front Assembly, Black. Includes Trim, Door, Pin \& Spring |
|  | 660581-1 | 660581-1 | Coin Cup Front Assembly, Gray. 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 <br> Coin Cup Only, Export <br> Striker, Door Switch, Export <br> Striker with Spring, Door Switch |
| 13a | 420144 | 420144 | Ferral |
| 13b |  |  | Washer This d |
| 13c |  |  | Screw |
| 14 | 460041 | 460041 | Door Gasket $1 / 4 \times 1 / 4$ |
| 15 | 420040 | 420040 | Hole Plug WWWW, ${ }^{\text {alltoll }}$ |
| 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) $\text { (44-5/8 x } 267 / 8 \times 1 / 8)$ <br> 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 |
| 26 | 300151 | 300156 | Door Stop Anchor |
| 27 | 420010-19 | 420010-18 | Washer, Brass |


| Key | Part No. |  | Description |
| :---: | :---: | :---: | :---: |
|  | 128 | 129 |  |
| 28 | 640157 | 640154 | Lower Door Hinge Plate Assembly, Specify Color |
| 29 | 420003 | 420003 | Flat Head Socket Screw 3/4 lg. |
| 30 | 420003-1 | 420003-1 | Flat Head Soket Screw 1/2 Ig. |
| 31 | 217-8R10 | 217-8R10 | Screw, Pan Head, Phillips \#8 x 5/8 |
| 32 | 660558-6 | 660558-5 | Delivert Bin, Assembly Complete. See Page 5.19 for Itemized Parts |
| 33 | 420436 | 420436 | Window Edging, Order per Inches $\left(128=134^{\prime \prime}, 129=143^{\prime \prime}\right)$ |
| 34 | 380022-5 | 380022-5 | Fluorescent Lamp F18T8/CW/K24 |
| 35 | 380023 | 380023 | Starter FS-25 |
| 36 | 680512 | 680512 | Lamp Harness Assembly |
| 37 | 420062-1 | 420062-1 | Screw, Slot Machine, \#4-36 x 3/4 |
| 38 | 440412 | 440412 | Coin Cup Door |
|  | 300212 | 300212 | Pivot Pin |
|  | 400108 | 400108 | Spring, Coin Cup Return Door |
| 39 | 200-6R6 | 200-6R6 | Trim Screw 6-18 x 3/8 |
| 40 | 460756 | 460756 | Decal Function Keys |

$\qquad$


| Key | Part No. |  | Description |
| :---: | :---: | :---: | :---: |
|  | 128 | 129 |  |
| 1 | 16000037 | 16000043 | Door Only, Odyssey |
|  | 16000037-01 | 16000043-01 | Door Only, Odyssey Thermal |
| 2 | 38527 | 38527 | Trim Ring, Odyssey |
| 4a | 16600113 | 16600114 | T-Handle and Lock Arm Assembly (includes $4 a, 4 b \& 5$ ) |
| 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 | 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 ( $445 / 8 \times 219 / 16 \times 1 / 8$ ) ( $445 / 8 \times 267 / 8 \times 1 / 8$ ) <br> Note: Replacement Glass Must Be Hard Tempered or Lexan Only |
|  | 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 |
| 21 | 420010-10 | 420010-10 | Washer, 1 1/8 OD |
| 22 | 300156 | 300156 | Door Stop Anchor |
| 23 | 420010-18 | 420010-18 | Washer, Brass. Door Adjustment IIIati |
| 24 | 640157 | 640154 | Lower Hinge Plate Assembly, Specify Color |
| 25 | 420003 | 420003 | Flat Head Socket Screw, 1/4 Ig. |
| 26 | 420003-1 | 420003-1 | Flat Head Socket Screw, 1/2 Ig. |
| 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 |
| 38 | 438-8 | 438-8 | Nut, 8-32 |
| 39 | 420144 | 420144 | Ferule |
| 40 | 305-8R6 | 305-8R6 | Ferule Screw, Plastite, \#8 x 3/8 |






| Key | Description | 128 | 128C | 129 | 129 C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |








| Item No. | Part No. | Description |
| :---: | :---: | :---: |
| 1 | 360274 | Logic Board |
| 2 | 360272 | Microprocessor |
| 3 | 360266 | Flash Memory Chip |
| 4 | 380308 | Battery, 3.6 V Lithium W/Harness |
| 5 | 680629 | Display Harness |
| 6 | 680633 | Ribbon Cable, Master Menu Extension Harness. |
| 7 | 680319 | Executive Coin Mech Harness. |
| 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 |
|  | $\begin{aligned} & 16800017 \\ & 680659-1 \end{aligned}$ | MDB Extension, Door Mount Validator Com/Power Harness, Digital Control |


| Item <br> No. | Part No. | Description |
| :---: | :---: | :---: |
|  | $\begin{aligned} & 17500005 \\ & 17500004 \\ & 16800013 \\ & 17500003 \\ & 56800022 \\ & 13700005 \\ & 16800042 \end{aligned}$ | OPTIONS <br> MasterMenu Online Package, Complete <br> PC to Chip Harness <br> Harness Board to Chip <br> Chip with Holder <br> Harness PC to Logic Board <br> Doubletalk (Voice Synthesizer) <br> Harness, Doubletalk |


|  | Description |
| :--- | :--- |
| Part No. |  |
| 16600098 | Line Cord, 120V, Domestic. |
| $660505-1$ | Line Cord, 230V, Europe. |
| $660505-2$ | 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 No. |  |
| :--- | :--- |
| MIIEIS |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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

## snack shelf




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



| 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) | $16600123-01$ | $16600125-01$ |
|  | 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) | $305-8$ R6 | $305-8 R 6$ |
| 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 $\times$ 3/8) | $276-8 R 6$ | $276-8 R 6$ |
| 13 | Pin, Shelf Plug. | N/A |  |
| 14 | Harness, Candy Shelf with Bracket. | $660435-10$ | N/A |
|  | Harness Only. | 16800074 | $1680435-8$ |
| 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
candy spirals

| 460347 | Price Tabs Ass't. $256-\$ 1.50$ |
| :--- | :--- |
| 460740 | Price Tabs Ass't. $\$ .75-\$ 1.25$ |
| 460602 | Price Tabs Ass't. $\$ 3.10-\$ 4.05$ |
| 14600010 | Price Tabs Ass't. $\$ 3.25-\$ 5.50$ |
| $460347-1$ | Price Tabs, All $\$ .30-\$ .35$ |
| $460347-2$ | 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-\$2.2 |
| 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 |


| \# Spaces | $\mathbf{1 2 8 - 1 2 8 C}$ | $129-129 \mathrm{C}$ |
| :--- | :---: | :---: |
| 3 Space | $400185-1$ | $\mathrm{~N} / \mathrm{A}$ |
| 4 Space | $400183-1$ | $\mathrm{~N} / \mathrm{A}$ |
| 5 Space | $\mathrm{N} / \mathrm{A}$ | $140000004-01$ |
| 6 Space | $400174-1$ | $400167-1$ |
| 7 Space | $\mathrm{N} / \mathrm{A}$ | $400164-1$ |
| 8 Space | $400116-1$ | $\mathrm{~N} / \mathrm{A}$ |
| 9 Space | $\mathrm{N} / \mathrm{A}$ | $400166-1$ |
| 10 Space | $400117-1$ | $400168-1$ |
| 12 Space | $\mathrm{N} / \mathrm{A}$ | $400120-1$ |
| 15 Space | $\mathrm{N} / \mathrm{A}$ | $400121-1$ |
| 16 Space | $400119-1$ | $\mathrm{~N} / \mathrm{A}$ |
| 18 Space | $\mathrm{N} / \mathrm{A}$ | $400122-1$ |
| 20 Space | $400134-1$ | $\mathrm{~N} / \mathrm{A}$ |
| 24 Space | $\mathrm{N} / \mathrm{A}$ | $400123-1$ |
| 30 Space | $\mathrm{N} / \mathrm{A}$ | $400135-1$ |
| 40 Space | $\mathrm{N} / \mathrm{A}$ | $400138-1$ |



| Key | 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 | $\mathrm{~N} / \mathrm{A}$ |
| 3 | Sensor Assembly Complete Lock Side | 16600242 | $\mathrm{~N} / \mathrm{A}$ |
| 4 | Sensor Cover. (Hinge \& Lock Side) | 12000325 | $\mathrm{~N} / \mathrm{A}$ |
| 5 | Sensor Cover, Lock Sine Only. | $\mathrm{N} / \mathrm{A}$ | 14400039 |
| 6 | Side Deflector Bracket. (Hinge \& Lock Side) | 12000343 | $\mathrm{~N} / \mathrm{A}$ |
| 7 | Stud Spacer 3/16 X .115 X 3/8. (Hinge \& Lock Side) | 13100016 | $\mathrm{~N} / \mathrm{A}$ |
| 8 | Stud Spacer 3/16 X .115 X 1/8. (Hinge \& Lock Side) | $13100016-01$ | $\mathrm{~N} / \mathrm{A}$ |
| 9 | Nylon Stop Nut (\#4-40). (Hinge \& Lock Side) | 13100021 | 13100028 |
| 10 | Deflector Side. (Hinge \& Lock Side) | 13300012 | $\mathrm{~N} / \mathrm{A}$ |
| 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 | $\mathrm{~N} / \mathrm{A}$ |
| 14 | Red Lens, Hinge Side Only. | $\mathrm{N} / \mathrm{A}$ | $14400038-01$ |
| 15 | Red Lens, Lock Side Only. | $\mathrm{N} / \mathrm{A}$ | 14400038 |
| 16 | Sensor Bracket Pem Assembly Hinge Side Only. | 16400027 | $\mathrm{~N} / \mathrm{A}$ |
| 17 | Sensor Bracket Weldment, Lock Side Only. | 16000126 | $\mathrm{~N} / \mathrm{A}$ |
| 18 | Screw (8-32 X 3/8). (Hinge \& Lock Side) | $276-8 \mathrm{R} 6$ | $\mathrm{~N} / \mathrm{A}$ |
| 19 | Screw, \#4 - 40 X 1/2 Flat Head. | $\mathrm{N} / \mathrm{A}$ | $1 / \mathrm{N} / \mathrm{A}$ |
| 20 | Screw, \#4 -40 X 3/8 Flat Head. | 16800096 | 13100027 |
| 21 | Harness, Golden Eye to Control Board. (not shown) | $13600007-02$ | 16800100 |
| 22 | Harness, Sensor Board to Sensor Board. (not shown) | 16800101 |  |









## vend motor rack assembly



| Key | Part No. |  | Description |
| :---: | :---: | :---: | :---: |
|  | 128 | 129 |  |
| 1 | 16600155 | 16600152 | Vend Motor Rack Assembly, US ( 355 ml ) Complete |
|  | 16600156 | 16600153 | Vend Motor Rack Assembly, UK ( 230 ml ) Complete |
|  | 16600157 | 16600154 | Vend Motor Rack Assembly, Australia. Complete |
|  | 202851 | 202392 | Motor Assembly Mounting Bracket (U.S.) |
|  | 202852 | 202421 | Motor Assembly Mounting Bracket (UK) |
|  | 202850 | 202401 | Motor Assembly Mounting Bracket (Aus) |
| 2 | 276-8R6 | 276-8R6 | Screw, Pan Head (8-32 x 3/8) |
| 3 | 380307 | 380307 | Cable Tie |
| 4 | 16800068 | 16800069 | Can Rack Harness (US) |
|  | 16800068 | 16800069 | Can Rack Harness (UK) |
|  | 16800087 | 16800070 | Can Rcak Harness (Australia) |
| 5 | 16600151 | 16600151 | Vend Motor Assembly (includes 6-19) |
| 6 | 202391 | 202391 | Motor Mounting Bracket |
| 7 | 380306 | 380306 | Empty Switch |
| 8 | 100-4-9 | 100-4-9 | Round Head Screw (4-40 x 9/19) |
| 9 | 440394 | 440394 | Empty Switch Lever |
| 10 | 300203 | 300203 | Shelf Roller Screw |
| 1 | 437-41 | 437-41 | 1/4 x 28 Keps Nut |
| 12 | 16700015 | 16700015 | Vend Motor, Screw in |
|  | 16700014 | 16700014 | Vend Motor, Snap in |
| 1 | 305-7R8 | 305-7R8 | Screw, Plastite ( $7 \times 1 / 2$ ) |
| 1 | 440392 | 440392 | Motor Pivot Arm |
| 15 | 440393 | 440393 | Link Arm |
| 16 | 660554 | 660554 | Assembly, Can Dispenser Linkage (includes 15.16, 17 \& 19) |
|  | 440391 | 440391 | Can Dispenser Only |
| 17 | 300210 | 300210 | Link Pin This documment |
| 19 | 460630 | 460630 | Can Dispenser Hinge |
|  |  |  | WWWW.altomati |



## refrigeration assembly

$\qquad$


| Key | Description | 117V <br> Ambient | $117 \mathrm{~V}$ <br> Chilled | $230 \mathrm{~V}, 50 \mathrm{~Hz}$ <br> Ambient | $\begin{aligned} & 230 \mathrm{~V}, 50 \mathrm{~Hz} \\ & \text { Chilled } \end{aligned}$ | $\begin{aligned} & 220 \mathrm{~V}, 60 \mathrm{~Hz} \\ & \text { Chilled } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |
| 2 b | 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 |
| 2 e | Thermal Overload Switch | 16700001-08 | 360270-8 | 16700002-08 | 360271-8 | 16700004-04 |
| $2 f$ | 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 | $1 / 4 \times 20$ 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 me | 420318 | 1420318 | 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.

$\qquad$


| TRIM | 128 | 129 | $\bigcirc$ |  | $\begin{gathered} \mathbf{0} \\ \left.=\begin{array}{c} 0 \\ \\ \\ \\ \end{array} \right\rvert\, \end{gathered}$ | $\begin{aligned} & 0 \\ & \hline \end{aligned}$ |  |  |  | - |  | $\begin{aligned} & \stackrel{\circ}{\bar{O}} \\ & \hline \mathbf{Q} \\ & \hline \end{aligned}$ |  | 128 | 129 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Top Trim | Part \# | Part \# |  |  |  |  |  |  |  |  |  |  |  | Dimensions | Dimensions |
| Silver, use with insert | 340042-13 | 340042-8 | 1 |  |  |  | 1 |  |  |  | 1 |  |  | $23 / 4 \times 31.887$ | $23 / 4 \times 36.890$ |
| Black, use with insert | 340044-15 | 360044-5 |  | 1 |  |  |  |  |  |  |  |  |  | $23 / 4 \times 31.887$ | $23 / 4 \times 36.890$ |
| Black | 340055-27 | 340055-9 |  |  |  |  |  |  |  | 1 |  |  |  | Length 31.887 | Length 36.890 |
| Black, use with insert | 340042-14 | 340042-10 |  |  |  |  |  |  | 1 |  |  |  |  | $23 / 4 \times 31.887$ | $23 / 4 \times 36.890$ |
| Black, use with insert | 340044-10 | 340044-9 |  |  | 1 |  |  |  |  |  |  |  |  | Length 31.887 | Length 36.890 |
| Silver, use with insert | 340044-16 | 340044-4 |  |  |  | 1 |  |  |  |  |  |  |  | $1.798 \times 31.887$ | $1.798 \times 36.890$ |
| 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 | $1.798 \times 21.57$ | $1.798 \times 26.997$ |
| Silver, use with insert | 340044-13 | 340044-11 |  |  |  |  |  |  |  |  |  | 1 | 1 | $1.798 \times 21.57$ | $1.798 \times 26.997$ |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  | Length | Length |
| Silver | 340058-1 | 340058 | 1 | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  | 21.357 | 26.721 |
| Black | 340058-12 | 340058-5 |  |  | 1 |  |  |  | 1 |  | 1 |  |  | 21.357 | 26.721 |
| Black | 340062-5 | 340062-3 |  |  |  |  |  |  |  |  |  | 1 | 1 | 21.656 | 26.997 |
| Clear | 340062-4 | 340062-2 |  |  |  |  |  |  |  |  |  |  | 1 | 21.656 | 26.697 |
| Window Trim Vertical |  |  |  |  |  |  |  |  |  |  |  |  |  | Length | Length |
| Silver | 340058-7 | 340058-7 | 2 |  |  |  | 2 |  |  |  |  |  |  | 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 |  |  |  | 50.937 | 50.937 |
| Silver | 340058-46 | 340058-46 |  |  | 2 |  |  |  |  |  |  |  |  | 65.406 | 65.406 |
| Silver | 340062 | 340062 |  |  |  |  |  |  |  |  |  | 2 | 2 | 65.406 | 65.406 |
| Black | 340062-1 | 340062-1 |  |  |  |  |  |  |  |  |  |  | 2 | 65.406 | 65.406 |
| Delivery Door Trim |  | - |  |  |  |  |  |  |  |  |  |  |  | Length | Length |
| Silver | 340055-29 | 340055-3 |  | 1 |  | 1 | 1 |  |  |  |  |  |  | 31.887 | 36.89 |
| Black | 340055-27 | 340055-9 |  |  |  |  |  |  | 1 |  | 1 |  |  | 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 |  |  |  |  |  |  |  |  |  |  | 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 |  |  |  |  |  |  |  |  |  | 1 | 1 | $2113 / 16$ | 27 3/16 |
| Door Vinyl Edge Trim | 201678-2 | 201678 |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  |  | $2915 / 16$ | 37 57/64 |
| Silver | 340055-29 | 3400055-3 |  | 1 |  |  |  |  |  |  |  |  |  | 31.887 | 36.89 |

$\qquad$


## 128 PANELS

## Lower Panel

Part \#
Presidential Walnut 202296-11 x
Presidential Walnut 200296-11

| Black Pika |  |
| :--- | :--- |
| Black Pika |  |
| Slate |  |
| Dove Grey |  |
| Bison Black |  |
| Slate |  |
| Sterling Royce |  |
| Sterling Royce |  |
| Black Hide |  |
| Black Hide W Stripe |  |
| Black Hide No Stripe |  |

Dove Grey
Trendline Grey
201692-57
202296-57
202296-65
202296-10
201692-52
200296-55
201692-39
200296-59
201692-47
201692-54

Black Hide Plain Euro
Paint

| Top Panel | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Presidential Walnut | 200526-2 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 31.887$ |
| Presidential Walnut | 201417 |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Black Hide | 200526-10 |  | x |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  | x | x |  |  |  |  |  |  |  |  | $25 / 8 \times 31.887$ |
| Black Hide | 201417-23 |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Black Pika | 201417-18 |  |  |  |  |  | X | x |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Black Pika | 200526-45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | $25 / 8 \times 31.887$ |
| Slate | 201417-25 |  |  |  |  |  |  |  | x |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Slate | 200526-47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 31.887$ |
| Dove Grey | 201417-21 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Bison Black | 200526-38 |  |  |  |  |  |  |  |  |  |  | X | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 31.887$ |
| Dove Grey | 201417-2 |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 32.187$ |
| Black Hide Van | 201690-2 |  |  | x | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $143 / 64 \times 21.312$ |
| Black Hide | 201690-7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | X | $143 / 64 \times 21.538$ |
| Paint | 201690-9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x $143 / 64 \times 21.538$ |
| Snacks | 201555-5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x x | X | X | x | x |  |  | $121 / 32 \times 31.887$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delivery Tray Panel | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| Presidential Walnut | 201356-8 | x |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | $3.687 \times 21.500$ |
| Black Hide | 201356-2 |  | X | x | x |  | x |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  | X | x | $3.687 \times 21.500$ |
| Black Pika | 201356-41 |  |  |  |  |  | X | X |  |  |  |  |  |  | x |  |  |  |  |  | x | X |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Slate | 201356-29 |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  | X |  |  |  |  | x |  |  |  |  |  | $3.687 \times 21.500$ |
| Dove Grey | 201356-37 |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Morocco Gray | 201356-39 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Pewter Sterling | 201356-10 |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Trendline Grey | 201356-25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Sterling Royce | 201356-35 |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | X |  | X | x |  |  |  |  |  | X |  |  | $3.687 \times 21.500$ |
| Bisson Black | 201356-44 |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 21.500$ |
| Paint | 201356-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x $3.687 \times 21.500$ |

## 128 PANELS


Left Side Vertical Panel Part \#

| Presidential Walnut | 202059-19 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | $2.203 \times 53.875$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Presidential Walnut | 202059-23 |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 51.218$ |
| Black Hide | 200296-59 |  | x |  |  | x |  |  |  |  |  |  |  |  | x |  |  | X | x |  |  |  | x |  |  | $2.203 \times 53.875$ |
| Sterling Royce Van | 202059-53 |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 65.578$ |
| Sterling Royce | 202059-55 |  |  |  |  |  | x |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  | $2.203 \times 51.218$ |
| Black Pika | 202059-60 |  |  |  |  |  | x |  |  |  |  |  |  | x |  |  |  |  | X |  | x |  |  |  |  | $2.203 \times 53.875$ |
| Slate | 202059-59 |  |  |  |  |  |  | x |  |  |  |  |  |  | x |  | X |  |  |  |  |  |  |  |  | $2.203 \times 53.875$ |
| Dove Grey | 202059-51 |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 65.578$ |
| Port Au Prince | 202059-25 |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 51.218$ |
| Dove Grey | 202059-44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | $2.203 \times 53.875$ |
| Dove Grey | 202059-36 |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 51.218$ |
| Pewter Sterling | 202059-27 |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 53.875$ |
| Sterling Royce | 202059-31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | $2.203 \times 53.875$ |
| Bison Black | 202059-62 |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 53.875$ |
| Trendline Grey | 202059-34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | $2.203 \times 53.875$ |
| Morocco Grey | 202059-57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.203 \times 53.875$ |



129 PANELS

Lower Panel $\quad$ Part \#
Presidential Walnut 202296-36

| VIP, Pres Wal |
| :--- |
| VIP, Black Hide |


| Vantage, Dove Grey |
| :--- |
| CP3, Pres Wal |
| CP3, Black Hide Plain |
| CP3, Black Pika |
| CP3, Black Pika, Sterling |
| CP3, Slate |
| CP3, Dove Grey |




 | Sterling, Bison Black, Mission |
| :--- |
| Tron, Dove Grey | Tron, Black Pika

 Genesis, Slate






 \begin{tabular}{l}
<br>
<br>
<br>
<br>
Dimensions <br>
\hline

 Presidential Walnut 201692-2 

x \& \& x \& \& \& <br>
x
\end{tabular}

 Black Pika 201692-58 Black Pika 202296-56

| Slate | $200296-64$ |
| :--- | :--- |
| Dove Grey | $202296-9$ |


| Dove Grey | $202296-9$ |
| :--- | :--- |
| Bison Black | $201692-51$ |
| Slate | $201692-6$ |


| Sterling Royce | 2 |
| :--- | :--- |
| Sterling Royce | 20 |
| Black Hide | 2 |


| Black Hide W Stripe |
| :--- |
| Black Hide No Stripe |



Trendline Grey
201692-49
Black Hide Plain Euro 201692-1
Paint
201692-44

## Part \#

| Top Panel | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Presidential Walnut | 200526-2 | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 35.875$ |
| Presidential Walnut | 201417 |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Black Hide | 200526-10 |  | x |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  | x | x |  |  |  |  |  |  |  |  | $25 / 8 \times 36.875$ |
| Black Hide | 201417-23 |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Black Pika | 201417-18 |  |  |  |  |  | x | x |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Black Pika | 200526-45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | $25 / 8 \times 36.875$ |
| Slate | 201417-25 |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Slate | 200526-47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 36.875$ |
| Dove Grey | 201417-21 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Bison Black | 200526-38 |  |  |  |  |  |  |  |  |  |  | X |  | x |  | - |  | c |  |  |  |  |  |  |  |  |  |  |  | $25 / 8 \times 36.875$ |
| Dove Grey | 201417-2 |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |  |  |  |  | $3.00 \times 37.187$ |
| Black Hide Van | 201690-2 |  |  | x | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $143 / 64 \times 26.878$ |
| Black Hide | 201690-7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x | $143 / 64 \times 26.878$ |
| Paint | 201690-9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x $143 / 64 \times 26.878$ |
| Snacks | 201555-5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | x x | x | x | x | x | x |  | 121/32 $\times 36.875$ |


| Delivery Tray Panel | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Presidential Walnut | 201356 | X |  |  |  | $x$ |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | $3.687 \times 26.843$ |
| Black Hide | 201356-1 |  | X | X | x | x |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  | x |  | x | x | $3.687 \times 26.843$ |
| Black Pika | 201356-40 |  |  |  |  |  | X | x |  |  |  |  |  | x |  |  |  |  | X | x | x |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Slate | 201356-28 |  |  |  |  |  |  | x | x |  |  |  |  | x |  |  | x |  |  |  |  | x |  |  |  |  |  | $3.687 \times 26.843$ |
| Dove Grey | 201356-36 |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Morocco Gray | 201356-38 |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Pewter Sterling | 201356-9 |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Trendline Grey | 201356-24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  | $3.687 \times 26.843$ |
| Contemporary Oak | 202535-9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Sterling Royce | 201356-34 |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  | x | x |  |  |  |  | X |  |  |  | $3.687 \times 26.843$ |
| Bisson Black | 201356-45 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $3.687 \times 26.843$ |
| Paint | 201356-6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | $3.687 \times 26.843$ |


| 129 PAN | LS |  | VIP, Black Hide | Vantage, Dove Grey | Vantage, Sterling Royce |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Aramark, Pika |  |  |  |  |  | (1) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Left Side Vertical Panel | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| Presidential Walnut | 202059 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | $2.031 \times 53.875$ |
| Presidential Walnut | 202059-4 |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 51.218$ |
| Black Hide | 202059-42 |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  | X | X |  |  |  |  |  | X |  |  |  | $2.031 \times 53.875$ |
| Sterling Royce Van | 202059-52 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 65.578$ |
| Sterling Royce | 202059-54 |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 51.218$ |
| Black Pika | 202059-61 |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  | x |  |  |  |  |  |  | $2.031 \times 53.875$ |
| Slate | 202059-58 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  |  | X |  |  |  |  |  | X |  |  |  |  |  | $2.031 \times 53.875$ |
| Dove Grey | 202059-50 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 65.578$ |
| Port Au Prince | 202059-5 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 51.218$ |
| Dove Grey | 202059-45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | $2.031 \times 53.875$ |
| Dove Grey | 202059-16 |  |  |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 51.218$ |
| Pewter Sterling | 202059-7 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 53.875$ |
| Sterling Royce | 202059-9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | $2.031 \times 53.875$ |
| Bisson Black | 202059-63 |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 53.875$ |
| Trendline Grey | 202059-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  | $2.031 \times 53.875$ |
| Morocco Grey | 202059-56 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $2.031 \times 53.875$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Right Side Vert. Panel, Lower | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| Presidential Walnut | 202805-3 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | $7.563 \times 26.641$ |
| Presidential Walnut | 202805-5 |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Black Hide | 202805-7 |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  | X | X |  |  |  |  |  | X |  |  |  | $7.563 \times 26.641$ |
| Sterling Royce | 202805-9 |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 37.898$ |
| Sterling Royce | 202805-45 |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  | x |  |  |  | $7.563 \times 26.641$ |
| Black Pika | 202805-25 |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  | x |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Slate | 202805-29 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  | x |  |  | X |  |  |  |  |  | X |  |  |  |  |  | $7.563 \times 26.641$ |
| Trendline Grey | 202805-51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  | $7.563 \times 26.641$ |
| Dove Grey | 202805-17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Dove Grey | 202805-43 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 37.898$ |
| Port Au Prince | 202805-11 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | a |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Dove Grey | 202805-31 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Pewter Sterling | 202805-23 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Trendline Grey | 202585-51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  | $7.563 \times 26.641$ |
| Dove Grey | 202805-19 |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Bisson Black | 202805-35 |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
| Morroco Grey | 202805-21 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 26.641$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Right Side Vert. Panel, Upper | Part \# |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dimensions |
| Presidential Walnut | 202806-7 | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | $7.563 \times 15.234$ |
| Presidential Walnut | 202806-9 |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 12.578$ |
| Black Hide | 202806-11 |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  | X | X |  |  |  |  |  | x |  |  |  | $7.563 \times 15.234$ |
| Sterling Royce | 202806-13 |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Sterling Royce | 202806-45 |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 12.578$ |
| Sterling Royce | 202806-47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  | $7.563 \times 15.234$ |
| Black Pika | 202806-29 |  |  |  |  |  |  | x |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  | X |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Slate | 202806-33 |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  |  | X |  |  |  |  |  | X |  |  |  |  |  | $7.563 \times 15.234$ |
| Dove Grey | 202806-21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Dove Grey | 202806-23 |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 12.578$ |
| Dove Grey | 202806-55 |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Port Au Prince | 202806-15 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 12.578$ |
| Dove Grey | 202806-35 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 12.578$ |
| Pewter Sterling | 202806-27 |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Morroco Grey | 202806-25 |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Bisson Black | 202806-49 |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $7.563 \times 15.234$ |
| Trendline Grey | 202806-63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  | $7.563 \times 15.234$ |

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## 128-129 odyssey trim \& panels

$\qquad$


| Key | Part No. |  | Description |
| :---: | :---: | :---: | :---: |
|  | 128 | 129 |  |
| 1 a | 13400001-01 | 13400001 | Top Trim |
| 1b | 16400010 | 16400010 | Retainer, Top Trim (3 required) |
| 2 | 38647 | 38647 | Vertical Trim |
| 3 a | 13400002-01 | 13400002 | Delivery Bin, Trim |
| 3b | 16400011 | 16400011 | Retainer, Bin Trim (3 required) |
| 4 | 14400009-01 | 14400009 | Trim, Under Delivery Door |
| 5 | 38342 | 38342 | Lower Right Side Column |
| 6a | 16600111 | 16600111 | Upper Column W POS Assembly |
| 6 b | 38355 | 38355 | Upper Column Only W POS Cut Out |
| 6c | 38356 | 38356 | Upper Column, No POS Cut Out |
| 7 a | 38497 | 38497 | Viewer Window |
| 7b | 38498 | 38498 | Adapter, POS Window |
| 7 c | 38499 | 38499 | Back Panel, POS Window |



## connectors


trouble shooting chart

| Problem | Symptom | Remedy |
| :---: | :---: | :---: |
| No Power | No Lights | Check Wall Outlet and Line Cord. <br> Check for 120 vac 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 8 vac and 24 vac at J5 Connector Coming onto Logic Board. |
| Doesn't Accept Coin | No Power to Changer | Check for 8 vac and 24 vac 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. |
|  | Coins Jammed in Tubes free 0 | 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 $\pm 10 \%$ |
|  | 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 | Open and Close 120 Cabinet Door to Home Motor. |
|  | Motor Not Configuratio | 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' | 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 Harness S | Check for Shorted Motor Wire or Cabinet Back Harness. |
|  | Defective L | Replace Logic Board |
| Unable to Enter Mastermenu (Service Mode) | Bad Interlock | Check Interlock Switch |
|  | Defective C | Replace Changer |
|  | Defective L | Replace Logic Board |
| Motor Doesn't Home on Door Clousure. | No Voltage | Check for Voltages |
|  | Defective D | Replace Door Switch |
|  | Defective L | Replace Locic Board. |
| No Lights | No Power to | Check for 120 Vac out of Junction Box |
|  | Defective B | Replace Ballast, Loose Harness |
|  | Defective S | Replace Starter |

MasterMenu Keypad pinouts


MasterMenu Plug Orientation

| 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## DIRECTIONS FOR INSTALLING SOFTWARE UPGRADE IN APi120

1) 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.
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.


## notes







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PART \#17500018

