## Technical <br> Manual

Glassfront Bev-Max 2 Vender
Model DN5800
0001-8446CD to 0001-8487AE (including production run 8511)


Operation Service Parts
Troubleshooting Manual
P.O. Drawer 719

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## VENDER SAFETY PRECAUTIONS

Please read this manual in its entirety. This service information is intended for use by a qualified service technician who is familiar with proper and safe procedures to be followed when repairing, replacing or adjusting any Dixie-Narco vender components. All repairs should be performed by a qualified service technician who is equipped with the proper tools and replacement components, using genuine Dixie-Narco factory parts.

> REPAIRS AND/OR SERVICING ATTEMPTED BY UNQUALIFIED PERSONS CAN RESULT IN HAZARDS DEVELOPING DUE TO IMPROPER ASSEMBLY OR ADJUSTMENTS WHILE PERFORMING SUCH REPAIRS. PERSONS NOT HAVING A PROPER BACKGROUND MAY SUBJECT THEMSELVES TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR EVEN FATAL.

## PRODUCT IDENTIFICATION

First production of Bev Max 2 Venders was March 2005. The production date of Dixie-Narco products is determined by the date code incorporated in the serial number.
The vender serial number takes the form xxxx-yyyy $z z$. The first 4 digits ( $x x x x$ ) identify the specific vender. The next 4 digits (yyyy) identify the manufacturing run that the vender was built in. The last two alpha characters (zz) identify the quarter and the year the vender was built. The first alpha character identifies the quarter as follows:
$\mathrm{A}=1^{\text {st }}$ Quarter
$\mathrm{B}=2^{\text {nd }}$ Quarter
$\mathrm{C}=3^{\text {rd }}$ Quarter
$\mathrm{D}=4^{\text {th }}$ Quarter

The second alpha character identifies the year:

$$
\begin{array}{ll}
D=2005 & H=2009 \\
E=2006 & \mathrm{I}=2010 \\
F=2007 & \mathrm{~J}=2011 \\
G=2008 &
\end{array}
$$

PHYSICAL CHARACTERISTICS

|  | DN5800 |
| ---: | :--- |
| HEIGHT | $72^{\prime \prime}(1828.8 \mathrm{~mm})$ |
| WIDTH | $47^{\prime \prime}(1193.8 \mathrm{~mm})$ |
| DEPTH CABINET | $32^{\prime \prime}(812.8 \mathrm{~mm})$ |
| DEPTH WITH <br> SERVICE DOOR | $33.5^{\prime \prime}(850.9 \mathrm{~mm})$ |
| BASE | $4.5^{\prime \prime}(114.3 \mathrm{~mm})$ |
| SHIPPING WEIGHT | $764 \mathrm{lbs} .(346 \mathrm{~kg})$ |
| Glass door is $37.5^{\prime \prime}(876.3 \mathrm{~mm})$ wide, $67 "(1701.8$ <br> mm high |  |
|  |  |

## RECEIVING INSPECTION

## DO NOT STORE THE VENDER OUTSIDE.

Upon receipt, inspect the vender for any shipping damage. If there is any damage, have the delivery driver note the damage on the bill of lading and notify Dixie-Narco. Although the terms of sale are FOB shipping point, which requires the consignee to originate shipping damage claims, Dixie-Narco will gladly help if you must file a claim.

## UNPACKING THE VENDER

Remove the stretch wrap, fiberboard edge protectors and corrugated front protector from the outside of vender.


Do not store the vender with stretch wrap on. Stretch wrap could bond to the vender's surface, which could damage the finish.

Remove the shipping boards from the bottom of the vender. The shipping boards are attached by the leveling legs. To avoid unnecessary damage to the leveling legs or base, remove the shipping boards by using a $1-1 / 2$ inch socket type wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.
Once the vender is unpacked, check the recovery unit for any additional parts, price/ product labels, service/operation manual or other information concerning factory-equipped accessories such as coin mech and validator.

WARNING: TO AVOID THE POSSIBILITY OF A FIRE HAZARD, DO NOT STORE ANYTHING OR ALLOW DEBRIS OF ANY KIND TO ACCUMULATE IN THE BOTTOM OF THE SERVICE AREA, IN AND AROUND THE REFRIGERATION
COMPARTMENT OF THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

|  | WARNING: ENSURE THAT |
| :---: | :---: |
|  | POWER IS DISCONNECTED |
|  | FROM THE VENDER BEFORE |
|  | INSPECTING OR REPLACING |
|  | THE LAMPS, OTHER |
|  | ELECTRICAL COMPONENTS, |
|  | OR WORKING WITH OR |
|  | ADJUSTING THE VENDING |
|  | MECHANISM. FAILURE TO |
|  | COMPLY WITH THESE |
|  | INSTRUCTIONS MAY |
|  | SUBJECT THE USER TO THE |
|  | RISK OF ELECTRICAL |
|  | SHOCK OR MECHANICAL |
|  | INJURY, WHICH CAN BE |
|  | SERIOUS OR FATAL. |

## ELECTRICAL POWER NEEDED

Refer to the cabinet serial number plate to determine the correct voltage and frequency for the machine. In the US and Canada this is $120 \mathrm{Vac}, 60 \mathrm{~Hz}, 1 \mathrm{P}$. In Europe, Australia, and other export countries, this is $220 / 230 / 240 \mathrm{Vac}, 50 \mathrm{~Hz}, 1 \mathrm{P}$ depending upon your country voltage. The serial plate also specifies the ampere rating of the machine. This machine must be plugged into a properly rated receptacle with its own circuit protection (fuse or circuit breaker.
DO NOT USE AN EXTENSION CORD.

## GROUND THE VENDER

The vender is equipped with a three-wire power supply cord and MUST be plugged into a properly grounded outlet.


DO NOT REMOVE THE GROUND PIN OR IN ANY WAY BYPASS, MODIFY, DEFEAT, OR DESTROY THE GROUNDING SYSTEM OF THE VENDER.

If the outlet will not accept the power cord plug, contact an electrician to install a proper AC outlet.

> FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR FATAL. PERIODICALLY INSPECT THE POWER SUPPLY CORD FOR DAMAGE. IF THE CORD BECOMES DAMAGED IT MUST BE REPLACED WITH THE SAME SIZE AND TYPE CORD. CONTACT DIXIE-NARCO FOR ASSISTANCE.

## INSTALLATION AND SETUP INSTRUCTIONS

## ELECTRONIC LOCK

The electronic lock provided in the vender consists of a door mounted, motor driven 2 point latching system, cabinet mounted latch and strike system, an infrared controlled CPU, and a remote control key (FOB). The design is modular and allows for easy field service.

The electronic remote key (FOB) features a rolling code system which cannot be decoded if it is lost or stolen. After the vender has been unlocked, a new key can be programmed into it any number of times. If a key is lost or stolen, it is recommended you change the lock code in the field as soon as possible. Changing the lock code requires a new key and pressing the PROGRAM button on the lock inside the vender. The lock does not need to be changed for rekeying.

Important: For security reasons all Electronic Door Lock Venders are shipped less keys. Customers will need to contact the Electronic Door Lock manufacturer to order keys.

A power bypass connector, located in the product delivery port, allows auxiliary power to be applied via a battery pack to the electronic lock in the event that power is not available or there has been a failure of the internal power supply. In the event of an emergency, battery power is applied to the connector and the door can be opened and closed using the FOB.

The electronics uses an infrared transmission system, which functions similar to a television remote control. The transmission signal is line-of-sight, which requires you to aim the remote at a specific place at close range to prevent the accidental opening of several venders at the same time.

## TO OPEN THE ELECTRONIC DOOR LOCK:

1. Plug the vender into a properly powered outlet.
2. Hold the key FOB 0 to 3 inches in front of the Delivery Port Door and press the button on the key FOB.
Note: The wide end of the FOB should face the door.
3. The lock will begin releasing the door. The display will indicate OPENED. After the motor has stopped running, you can pull the door open.

## TO CLOSE THE ELECTRONIC DOOR LOCK:

## CAUTION: DO NOT SLAM THE DOOR CLOSED.

Slamming the door closed can damage the electronic locking device.

1. Push the door to the cabinet until the lock motor starts. The display will indicate: CLOSED
2. Continue to push the door for approximately 2 to 3 seconds after the lock motor starts. The lock will pull the door closed tightly.
3. When the lock motor stops the door will be locked. Before leaving the vender, ensure that the door is locked.

The electronic door lock assembly is supplied by Tri Teq Lock and Security. Dixie-Narco, Inc. does not carry parts for the Tri Teq Electronic Door Lock.
For parts and assistance, please contact:

```
Tri Teq
701 Gullo
Elk Grove Village, IL 60007
Tel: 847-640-7002
Fax: 847-640-7008
Email: gary@triteqlock.com
```


## MANUAL LOCK

Open the service door on the right side using the key provided in the coin return cup, or if shipped with a locking clip, remove the clip and install the lock. Ensure there is no power to the AC Distribution Box. On venders with a main power switch on the AC Distribution Box the switch needs to be in the OFF position. On venders with a main power quick disconnect plug on the AC Distribution Box the quick disconnect plug needs to be unplugged. Check that all connectors are firmly seated on the control board and at the various components on the service door (coin mech, keypad, etc.).
Retrieve the main power plug from the hole in the rear of the vender and plug the cord in a properly grounded 120VAC, 15 Amp receptacle (U.S. and Canada).

Open the service door and apply power to the AC distribution Box (if equipped with a bill acceptor, the acceptor should cycle twice). The display on the door will briefly show the software version in use as "Software \#\#\#.\#\# (ie 080.01) followed by the default idle message "ENJOY A REFRESHING DRINK", the fluorescent lamp should be lit and the cooling unit should start. If the display shows "OUT OF SERVICE", or the cooling unit fails to start, refer to the TROUBLESHOOTING SECTION beginning on page 28.

## SERVICE NOTE

## Battery Backup

The battery backup is used to maintain the date and time in case of power interruptions, or any time the main power is off. When the vender is shipped, the battery is connected and memory is being maintained. If the vender is to be stored for long periods of time, disconnecting the battery is recommended. The following steps will guide you through this procedure.

- Open the service door, turn the main power switch to the off position or unplug the main power harness located on the front of the power box.
- Locate the control board mounted on the rear wall.
- Remove the battery from its holder (B 1).


## PLACING THE VENDER ON LOCATION

## !! CAUTION !!

$\triangle$DO NOT TRANSPORT THE
VENDER TO OR FROM THE
LOCATION LOADED WITH
PRODUCT OR DAMAGE TO THE
VENDER MAY RESULT.

The vender is intended for INDOOR USE ONLY. It should be kept out of direct sunlight and away form any heat source. This machine is not suitable for installation in an area where a water jet or hose and nozzle may be used.

The vender must be on a solid, flat and level surface. Ensure the flooring can bear the weight load of a fully loaded vender (approximately 1109 lbs . or 413 kg ). The vender must be positioned close enough to an electrical outlet so that an extension cord is not required. If the machine will be subject to user misuse or vandalism, it is recommended that the vender be secured to the floor or wall as described in DixieNarco Technical Bulletin 344. Due to the large size
and weight of the Vender, never attempt to move the Vender with a Hand Truck or Stair Climber. Use a pallet jack or Vender/Cooler Dollies at all times when moving the Vender. The vender should never be slid or pushed in place. Never side load the leveling legs; doing so will cause damage to the legs. Do not transport the vender to or from customer locations loaded with product, as damage may result due to excessive weight. Call the Dixie-Narco Technical Service Department or your Dixie-Narco Representative for assistance.

## LEVEL THE VENDER

Adjust the front leveling legs, ensuring that an even gap exists between the glass door and the top security angle and receiver box, and then level the cabinet front to rear. A carpenter's level will help verify that the vender is level. Leveling legs are adjusted using a wrench or socket $1 \frac{1}{2} /{ }^{\prime \prime}$ in size. If the vender is to be used in a bank of equipment, check the top and sides for proper alignment. If you are unable to properly level the vender, select an alternate location. NEVER PLACE OBJECTS UNDER THE LEVELING LEGS OF THE VENDER

## DANGER

THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. IF THE MACHINE WILL BE SUBJECT TO USER MISUSE OR VANDA LISM IT IS RECOMMENDED THAT THE VENDER BE SECURED TO THE FLOOR OR WALL AS DESCRIBED IN DIXIE-NARCO TECHNICAL BULLETIN 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL THE DIXIE-NARCO TECHNICAL SERVICE DEPARTMENT OR YOUR DIXIENARCO REPRESENTATIVE FOR ASSISTANCE.

## SPACE THE VENDER

Do not block the rear of the vender. Maintain a minimum of 4 inches ( 10 cm ) from the wall to ensure adequate airflow to the condenser and compressor. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.

> WARNING
> TO AVOID THE POSSIBILITY OF A FIRE HAZARD, DO NOT STORE ANYTHING OR ALLOW DEBRIS OF ANY KIND TO ACCUMULATE IN THE BOTTOM OF THE DOOR, IN THE BOTTOM OF THE SERVICE AREA, IN AND AROUND THE REFRIGERATION COMPARTMENT OF THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

## INSTALLING PRICE LABELS

Pricing labels included in the literature package kit. They range in price from .25 to 9.95 . Remove the pricing label sheets from the service manual package and gently remove the label corresponding to the vend price of each selection by tearing at the perforation. The label is installed at the top of the front knuckle. Once installed, push the label firmly against the front of the knuckle. This will insure the label is locked in place.

## INSTALLING PRODUCT ID CARDS

To assist with consistent loading, product ID cards are included for the slide assemblies with every vender and should be installed into the product pusher to designate to the route driver which product the column is set for. To install the flavor card, simply detach it from the sheet at the perforation and slide it into the slots in the product pusher.

## COIN CHANGERS \& OTHER ACCESSORIES

The vender can have an MDB coin changer installed and can have an MDB bill acceptor installed as well. Note: Bev Max 2 will work with an MDB bill acceptor only. If the MDB coin changer and other MDB accessories are not factory installed, refer to the instructions received form the manufacturer of the MDB coin changer and other MDB accessories for proper set-up and installation.

The vender will support the following Domestic MDB coin changers:

```
Coinco 9302GX, USG-701 Quantum Mars TRC-6510, TRC-6512, TRC-4010 Conlux CCM-5G 1-2-3-4-5
```

The vender will support the following domestic MDB Bill validators:

Coinco BA-30 B, BA-50B Coinco Mag 50
Mars VN $2512 \quad$ Conlux NBM-3000 Series
The vender will support MDB card readers.

## SETTING THE TEMPERATURE CONTROL

This vender is equipped with an electronic temperature sensor and a manual defrost thermostat. This temp sensor is factory pre-set to maintain a cabinet temperature of 37 degrees Fahrenheit. It is also a good practice to ensure the proper operating temperature prior to installing the vender on location. To set the temperature, apply power to the vender and allow it to run for several hours with the glass door closed or until the minimum cabinet temperature is achieved. Then, using the method below, verify the temperature inside the cabinet:

With an electronic temperature sensor, use the keypad on the service door to show cabinet temperature in Fahrenheit by pressing the F key followed by the asterisk (漛) key or in Centigrade by pressing the C key followed by the asterisk key. The temperature will be shown on the digital display located on the front of the service door.

The defrost control is located on the side of the refrigeration unit. The defrost control is preset and is not adjustable.

## LOADING THE VENDER

## CAN/BOTTLE DRINK TRAYS

The Bev Max 2 Vender does not require spacers or shims to vend most packages. Load product in each column one package at a time insuring that the package being loaded is in front of the product pusher. Insure that the package is stable within the column (doesn't move excessively from side to side). After loading the vender, test vend each column to insure proper operation. Please contact a Service Representative or refer to the proper Technical Publication for any special settings you may need.

## LOADING CHANGE TUBES

The changer tubes can be loaded using one of the following methods:

1. Load the coin mechanism with coins to the desired level by inserting coins in the loading slots on the coin tube front.
Minimum coin tube levels are:
6-8 nickels
7-8 dimes
5-6 quarters
Note: A low coin level in the coin tubes will interfere with operation of the bill validator.
2. For exact cash accountability and to insure maximum dollar bill acceptance, load the mechanism utilizing the coin insert slot on the front of the vender while in the coin tube fill/dispense mode in the test menu. (see
page 17 in the programming section for more information)
(For additional information about coin mechanism, refer to the manufacturer's instructions.)

## POWER AC DISTRIBUTION BOX

The power distribution box is where the 120VAC input voltage is broken down to the main operating voltages of the vender ( 24 VAC and 12 VAC) by a transformer. Those voltages are sent to the controller via the P1 (3 pin) connector. It also contains 3 fuses that protect the VMC, transformer, and motors. The power distribution box also distributes AC power to the lights, evaporator fan, and refrigeration system, which are always energized when the vender is powered up. It is located inside the service area, mounted to the back wall.

## VENDING MACHINE CONTROLLER (VMC)

The vending machine controller is the heart of the Glass Front Vender and is located on the rear wall inside the service area. It is flash programmable and may or may not include the program chip (EPROM), which controls all aspects of the vender. It also contains the power supply which regulates the voltages required to operate the motors as well as the coin mechanism, digital display and all logic functions in the vender.

## Keypad

The keypad is located on the front of the service door. It consists of a 6 inch $X 3$ inch matrix, membrane switch pad and an overlay. The pad utilizes the letters A thru $F$ on the left side and numbers 1 thru 0 along with the 粦 symbol and Clr to the right. The keypad is where the vender programming is accomplished and where the customers make their selections.

## DIGITAL DISPLAY

The digital display is located directly above the keypad on the front of the service door. It is used to convey information to the consumer as well as to the person programming the vender.

## REFRIGERATION SYSTEM

The refrigeration system is a single piece unit and is hermetically sealed. In the EM2001 model consist of a $1 / 2$ horsepower compressor, with a single fin and tube style condensing unit with one fan, the condensation overflow pan and the evaporator. The evaporator is located behind the panel on the back right side of the cooling compartment directly adjacent to the bottom shelf. The remainder of the unit is located behind the refrigeration unit cover panels, mounted in the bottom of the cabinet. This unit is designed for easy removal and replacement from the front of the vender as a complete assembly. An electronic thermostat regulates the cabinet temperature. The bulb of the thermostat is attached
to the evaporator coils and reads the temperature of air being pulled in to the evaporator coil.

## SHELF ASSEMBLY

Typically, there are 5 shelf assemblies in every vender; however, this can vary depending upon the configuration specified at the time of ordering. Each can/bottle shelf consists of 9 columns. Each shelf is capable of holding a variety of packages. The shelf assembly consists of the tray, where all of the following parts are mounted: Double Gate assembly, and the slide/pusher assembly. These items are discussed in detail below.

## DOUBLE GATE ASSEMBLY (Can/Bottle Trays)

The double gate assembly is mounted on the front portion of the tray assembly and contains the vending mechanism. Incorporated in the gate assembly are the front and rear knuckle assemblies as well as the product kicker. In standby operation, the front knuckle is in the blocking position, which holds the front displayed product in position to be vended. The rear knuckle assembly is in a flat position, which allows product to enter the gate area, and the kicker is flush to the rear knuckle assembly. A stainless steel pin is inserted through the rear most portion of the front knuckle assembly and connects to a gear box below the tray. When a selection is made, the plunger pushes the lever toward the back of the tray. At the same time the front knuckle is opened into a flat position, the rear knuckle is closed to a blocking position, holding the remaining product out of the gate area, and the kicker is extended to firmly push the front displayed product off of the tray. The plunger is energized for approximately $1-1 / 2$ seconds to allow ample time for the displayed product to be ejected from the shelf. The plunger is then released and the front knuckle returns to the blocking position, the rear knuckle and kicker return to their standby position and the next product slides into the vend display position.

## SLIDE/PUSHER ASSEMBLY (Can/Bottle Trays)

The slide/pusher is located on the bottom of each product column. Its purpose is to provide a slick, friction resistant surface for the product to rest on. The tall product pusher is mounted on the top of the slide and incorporates a coil spring in the body that attaches to the bottom of the slide through a slit. This spring adds needed tension to insure that all products in the column remain tight against each other and are allowed to progress into the gate area. Although these pushers reduce the effects of dirt and grime, periodic cleaning and lubrication of the slides is recommended. DO NOT USE SOLVENTS OR ABRASIVE MATERIALS TO CLEAN ANY PORTION OF THE TRAY.

## MOTOR PICKER ASSEMBLY

The motor picker assembly is located on the XY door vend mechanism. Its purpose is to pick the product from the column and deliver the product to the delivery port. The motor picker assembly is mounted on the XY assembly and bolts in position.

The X axis runs left to right. The X axis assembly is cabinet mounted to prevent any cabinet torque and has one belt to synchronize the top and bottom when the X moves left or right.

The Y axis runs up and down and has the Picker Cup Assembly attached. A top channel is used to contain and hide the e chain and wiring.

Both X and Y motors have encoders for positioning.

## PROGRAMMING

## GENERAL INFORMATION

In order to fully utilize the many features of your vender it is important that you first understand the options available and procedures for programming the vending controller unit（control board）．
All programming，testing，and service functions are accomplished by using the keypad in an easy to follow，display prompted format．There are four modes of operation for servicing，testing，and setting up your vender．The modes of operation are accessed by， opening the service door，and pressing the service button on the control board．
The service button will cycle through each of the four modes in turn：Service Mode，Test Mode，Set－Up Mode 1 and Set－Up Mode 2．In each of these modes， the＂A＂key is used to scroll through the available options／settings within that mode／selection．（Note：In each of the mode selections，pressing the character key next to the listed option will take you directly to that feature－see menu items chart on page 12．），the ＂为＂key is used as an enter key to select the currently displayed item／feature，and the＂CLR＂key is used as a done or exit key．Closing the service door or pushing the service door switch will exit the function you are currently in and place the vender back in service．

## EXTERNAL DISPLAY ITEMS （HOT KEYS）

Allows the service technician to view several items via the display without opening the vender．There are four options that can be viewed externally：

1．Display temperature in degrees＂$C$＂．To view，press the＂$C$＂then press the key．The display will then show the vender＇s inside temperature in degrees＂ C ＂．
2．Display date／time．To view，press the＂D＂ key，then press the＂摂＂key．The display will then show the current date and time．
3．Display temperature in degrees＂$F$＂．To view，press the＂F＂key，then press the＂为＂ key．The display will show the vender＇s inside temperature in degrees＂$F$＂．
4．Display current software revision．To view， press the＂B＂key，then press the＂涴＂key．The display will then show the current software revision in the controller．

## NORMAL OPERATION MESSAGES

At initial power－up，the program will start and the display will briefly show the software version in use as Software \＃\＃\＃．\＃\＃（i．e．080．01），followed by the default idle message，＂ENJOY A REFRESHING DRINK＂．

## INITIAL PROGRAMMING

## DATE／TIME

To set date／time enter＂SETUP MODE 1＂by opening the service door and pressing the Service Button three（3）times．Press the number＂ 5 ＂and ＂DATE／TIME＂will show on display．Press the＂楽＂key and display will show the current year，month，date， and time setting currently in the system in following format： 2005 Apr 28 15：45 with the year highlighted． Press the numbers to enter the current year and Month will then be highlighted．To change the month press the A key to scroll forward through the months or the B key to scroll backward through the months． With the correct month showing，press the＂摂＂key to save and Date will then be highlighted．Press the numbers to enter the current date and then the hour will then be highlighted．Note：Hours are shown in 24 hour format．Press the numbers to enter the current hour and then the minutes will then be highlighted． Press the numbers to enter the current minutes．The display will then change to show＂OK？皮 $=\mathrm{Y}$（Yes） CLR＝ $\mathrm{N}(\mathrm{No})$＂and the setting you entered．You must press 资 Key to save the new date and time entered． Pressing CLR Key will revert to the date and time setting．Press the＂CLR＂key to return to＂SETUP MODE＂．

## SET PRICES

To set the prices enter the＂SERVICE MODE＂by opening the service door and pressing the Service Button once．Allows the setting of regular and secondary prices for an individual item，a complete tray，or the entire machine．Factory setting is \＄99．95． Press the number＂ 7 ＂on the keypad and the display will show＂SET PRICE＂．Press the＂粈＂key and the display will show＂1＝Regular Pricing， 2 ＝Secondary Pricing＂．To set regular prices press number 1 key and display will show＂Regular \＄\＃\＃．\＃\＃＂．To set price：

1．All selections．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note：The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the＂准＂key and the display will show ＂PR\＄\＃\＃．\＃\＃All Set＂，press＂＊＂to set more prices or CLR to return to SET PRICES． Press CLR Key again to return to SERVICE MODE．
2．One tray．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note：The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the tray letter desired for setting price．Press ＂隶＂and display will show＂PR \＄\＃\＃．\＃\＃B（tray letter）Row Set＂，press＂＊＂to set more prices
or CLR to return to SET PRICES．Press CLR Key again to return to SERVICE MODE．
3．Single selection．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note：The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the selection desired for setting price．Press ＂来＂and display will show＂PR \＄\＃\＃．\＃\＃B1 Selection Set＂，press＂＂⿻丷木大＂＂to set more prices or CLR to return to SET PRICES．Press CLR Key again to return to SERVICE MODE．
The last price entered for a selection is the price that will be used．For example，If one price on the A tray was set to $\$ 1.50$ using option 3 above and you wish to change the remaining selections on that tray using option 2 ，the pricing for the entire tray would take precedence．Conversely，if the price was set using option 2 first followed by the single selection using option 3，the pricing for the remainder of the shelf would remain and the new price for the single selection would change to the new value．
Press the＂CLR＂key to return to＂SERVICE MODE＂．

## SET NOT AVAILABLE TIMES

Password protected．Before entering or changing this setting you must enter the password if one has been assigned．This mode allows up to 4 different time periods that use of the machine may be restricted． To set Not Available Times enter the＂SETUP MODE 1 ＂by opening the service door and pressing the Service Button 3 times．Press the number 3 key；the display will show＂SET NOT AVAIL TIME＂．Press the ＂来＂key and the display will show＂Select Block（1－

4）：Press number 1 Key to set Select Block 1 available settings，Key 2 for Select Block 2，etc．．．Once you select the Select Block \＃you wish to set the display will show＂Start MTWTFSS Stop 1 00：00 NNNNNNN $00: 00$＂with the start time hour highlighted．Press the numbers to enter the hour you wish to start select block（Note：hour setting is in 24 hour format．）and then the minutes will be highlighted．Press the number keys to enter the minutes and then the first day of the weeks current setting will be highlighted． To change the setting to no press key 2 ，to yes press key 1．This will change each setting left to right one day at a time until all are set then Stop time hour will be highlighted．Press the numbers to enter the hour you wish to stop select blocking and the minutes will be highlighted．Press the numbers to set the minutes and the display will show＂OK？䊩 $=\mathrm{Y}$ CLR $=\mathrm{N}$＂press the 粦 Key to save these settings or CLR Key not to save settings and display will change to show which selections are assigned to this block．Press＊Key and display will show＂Enter Selection＂．Press the Keys of the selections you wish to disable followed by ＊and display will show＂Disabled Continue？率 $=\mathrm{Y}$ CLR $=\mathrm{N}$＂．Note：If you press a tray letter（ie A） followed by the 粶 Key that entire tray will be set to be disabled．Once you have selected all settings and the display shows＂Disabled Continue？Or Enabled Continued？楽 $=Y C L R=N$ press the CLR to return to ＂SET NOT AVAIL TIME＂．Press CLR again to return to＂SETUP MODE 1＂．

## BEV-MAX 2 SERVICE MODE MENU ITEMS

(080.21 Menu shown)

## SERVICE MODE

A Next Item
B Cash Box
C Sales
D Display Temperature
E Set Refrig Temp
F Clear Totals
1 Number Sold
2 Disable Item
3 Sales by Column
4 Escrow
5 Force Vend
6 Set Temperature (F or C)
7 Set Prices (Regular \& Secondary)
8 Set Shelf Location (G, M1, M2, D, E1, E2)
9 Relay Toggle
0 Clear Errors

## TEST MODE

A Next Item
B List Errors
*C Not Used
*D Not Used
E Keypad Test
F Factory Diagnostics
1 Tube Fill/Dispense
2 Daylight Savings Time
3 Not Available Mode
4 Credit Timer Mode
5 Door Open
6 Power Out
7 Test Health Guard
8 Display Health Guard
9 Test Vend
0 Show Checksums

## SETUP MODE 1

A Next Item
B Enter Message
C Clear Message
D Enable/Disable \$
E Set Happy Hour Time
F Master Reset
1 Machine Number
2 Set Happy Hour
3 Set Not Avail. Time
4 Consumer Overpay
5 Date/Time
6 Total Sales
7 Health Control 8 Update Software
9 Set Lights Off Time
0 Enter New Password

## SETUP MODE 2

A Next Item
B STS Enable
C Custom STS
D Default STS
E Display STS
F Set No Vend Limit
*1 Multivend
*2 Not Used
3 Sold Out Enable
4 Price Display
5 Storage Temp Enable
6 Interval Clearing (On/Off)
7 Set Lights Off
8 Set Refrigeration Temp
9 Set Storage Time
0 Set Storage Temp
*Note: All menu items with the font in red are not available in the current Bev Max 2 Vender programming.
Note: all items in Italics under SETUP MODES require password entry for access if one has been assigned.
FACTORY DEFAULT REQUIRES NO PASSWORD UNTIL NEW PASSWORD OTHER THAN 0000 IS ENTERED.
Menu items shown above reflect software revision $804,924,08 x . x 1$ and higher

| Service Mode | Pages 13 through 15 |
| :--- | :--- |
| Test Mode | Pages 15 through 18 |
| Setup Mode 1 | Pages 18 through 22 |
| Setup Mode 2 | Pages 22 through 23 |

## SERVICE MODE MENU ITEMS

Note：Menu items in red are not currently available．

## SERVICE MODE

Enter SERVICE MODE by opening the service door and pressing the Service button once．The display will read＇SERVICE MODE＂．The following choices are now available：

NEXT ITEM－Press key＂ A ＂
CASH BOX－Press key＂B＂
Shows the amount of change diverted to the cash box from the coin mechanism since the last CLEAR TOTALS or MASTER RESET．To view the cash box totals，press the letter＂B＂on the keypad and the display will show＂CASH BOX＂，then press the＂w＂ key and the display will show Cash Box \＄\＃．\＃\＃． Press the＂CLR＂key to return to＂CASH BOX＂． Press the＂CLR＂key to return to＂SERVICE MODE＂ or press the＂ A ＂key to advance to the next menu item below．

## SALES－Press key＂C＂

Shows total sales since last CLEAR TOTALS or MASTER RESET．This total includes change not diverted to the cash box and still being held in coin mechanism escrow tubes To view the total sales press the letter＂ C ＂on the keypad and the display will show＂SALES＂，then press the＂承＂key and the display will show Sales \＃．\＃\＃．Press the＂CLR＂key to return to＂SALES＂．Press the＂CLR＂key to return to ＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

DISPLAY TEMPERATURE－Press key＂D＂
Shows the cabinet temperature in degrees Celsius or degrees Fahrenheit．Press the letter＂D＂on the keypad．The display will show＂Display Temperature＂．Press the＂＂⿻弓⿰丿丨⿱二小⿱二小欠＂＂key and the display will show＂Display：ON（or OFF）Press＂＊＂－turn OFF （or ON）＂．Press the 粦 Key to toggle on／off or press the CLR Key to not change settings．If＂on＂is selected the Display will change to＂Set Temperature Unit Degrees F （or C）showing the current setting temperature will be displayed．Press F for Fahrenheit or C for Celsius．Press the 粦 Key to save and return to＂Display Temperature．＂Press the＂CLR＂key to return to＂SERVICE MODE＂or press the＂$A$＂key to advance to the next menu item below．

## SET REFRIG TEMP－Key＂E＂

Allows the service technician to set the average product temperature（set point）for initial pull down
and reload recovery．Press the letter＂E＂on the keypad and display will show＂SET REFRIG TEMP＂． Press the＂察＂key on the keypad and the display will read＂tt．tx＂where x is Fahrenheit or Celsius and tt．t is the degrees．To change the set point press the key numbers you wish the set point to be （temperature set must be between 32 and 75 degrees F）．Press the＂象＂key to save the new set point temperature and return to＂SET REFRIG TEMP＂．Press the＂CLR＂key to return to＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

CLEAR TOTALS－Press key＂ F ＂
Allows the service technician to clear totals in CASH BOX，SALES，NUMBER SOLD，DOOR OPENINGS， POWER OUTAGES，SALES BY COLUMN，and all other interval data．Press the letter＂ F ＂on the keypad and the display will show＂CLEAR TOTALS＂． Press the＂䊉＂key，the display will read Clear Interval Data？粐 $=Y$ CLR $=N$ ．Press the＂CLR＂key to return to＂Clear Totals＂with out resetting the totals．Press the selection you wish to use and display will return to＂Clear Totals＂．Press the＂CLR＂key to return to ＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## NUMBER SOLD－Press key＂1＂

Shows the total number of items sold since the last CLEAR TOTALS OR MASTER RESET．Press the number＂ 1 ＂on the keypad and the display will show ＂NUMBER SOLD＂．Press the＂察＂key and the display will show＂Number Sold \＃＂．Press the＂CLR＂ key to return to＂Number Sold＂．Press the＂CLR＂key to return to＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## ENABLE ITEM－Press key＂2＂

Allows an individual selection，a complete tray，or the entire machine to be enabled or disabled．This is most commonly used when a selection is out of order and you are awaiting parts and do not want the customer to utilize that selection．Press the number＂ 2 ＂on the keypad and the display will show ＂ENABLE ITEM＂．Press the＂畨＂key and the display will read＂Enter Selection＂．There are now three choices：

1．Pressing the＂束＂key will toggle between enabled and disabled for the entire machine， the display will show the new state i．e． enabled or disabled and display will show ＂Blocked（Unblocked）Continue？粕 $=$ Y CLR $=\mathrm{N}$ ．
2．Pressing a tray selection followed by＂絭＂will show the new state of that tray．（For example，pressing＂$A$＂will show the new state for the A tray，the display will show the new state i．e．enabled or disabled and
display will show＂A Blocked（Unblocked） Continue？$=\mathrm{Y}$ CLR $=\mathrm{N}$ ．
3．Pressing an item selection will show the new state of that item；for example，pressing＂A1＂ will show the new state of that item，the display will show the new state i．e．enabled or disabled and display will show＂A1 Blocked（Unblocked）Continue？$=$ Y CLR $=\mathrm{N}$ ．
If a selection has been disabled in this mode and the customer tries to purchase from the programmed selection（s），the vender will display＂SELECT ANOTHER ITEM＂．Press the CLR Key to show all items that are blocked or the 粦 Key to disable more items．Press the＂CLR＂key to return to＂Enable Item＂．Press the＂CLR＂key to return to＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## SALES BY COLUMN－Press key＂3＂

Shows the total number sold from each selection since the last CLEAR TOTALS or MASTER RESET． Press the number＂ 3 ＂on the keypad and the display will show＂SALES BY COLUMN＂．Press the＂沙＂key and the display will read＂Select Column＂．Select the column to be checked（the total number sold from that selection will be on the right side of the display and the item number will be on the left side of the display）．Press the＂CLR＂key to return to＂Sales by Column＂．Press the＂CLR＂key to return to ＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## ESCROW－Press key＂4＂

Allows a bill to be returned if the change return lever is pressed before a selection is made．Factory setting is ESCROW OFF．Press the number＂4＂on the keypad and the display will read＂ESCROW OFF＂or＂ESCROW ON＂，depending on the current state．Pressing the＂象＂key toggle the vender from ESCROW OFF to ESCROW ON．Example：If ＂ESCROW OFF＂is showing on the display，pressing the＂皮＂key will disable the escrow function and the display will read ESCROW ON．This feature only affects those machines with a bill validator installed． Press the＂CLR＂key to return to＂Escrow＂．Press the ＂CLR＂key to return to＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## FORCE VEND－Press key＂ 5 ＂（NOT <br> AVIALABLE）

Forces the customer to make a vend by inhibiting the coin return lever once the minimum vend price line has been met or exceeded The coin return lever will not be inhibited if there is not enough credit to vend the lowest priced item or if a vend failure has occurred．Factory setting is＂FORCE OFF＂．Press the number＂ 5 ＂on the keypad the display will read ＂FORCE OFF＂or＂FORCE ON＂，depending on the
current state．Pressing the＂管＂key will toggle the state．Press the＂CLR＂key to return to＂Force Vend＂． Press the＂CLR＂key to return to＂SERVICE MODE＂ or press the＂A＂key to advance to the next menu item below．

## SET TEMPERATURE SCALE－Press key＂ 6 ＂

Allows the service technician to change the scale of the temperature in the vender to read in Fahrenheit or Celsius as needed．Press the number＂ 6 ＂on the keypad and the display will show＂Set Temperature＂． Press the＂wey and the display will show＂Set Temperature Unit Degrees F（or C）＂．Press the C to display in Celsius or $F$ to display in Fahrenheit． Press to save and display will return to＂Set Temperature＂．Press the＂CLR＂key to return to ＂SERVICE MODE＂or press the＂A＂key to advance to the next menu item below．

## SET PRICES－Press key＂7＂

To set the prices enter the＂SERVICE MODE＂by opening the service door and pressing the Service Button once．Allows the setting of regular and secondary prices for an individual item，a complete tray，or the entire machine．Factory setting is $\$ 99.95$ ．Press the number＂ 7 ＂on the keypad and the display will show＂SET PRICE＂．Press the＂解＂ key and the display will show＂ 1 ＝Regular Pricing， 2 ＝Secondary Pricing＂．To set regular prices press number 1 key and display will show＂Regular \＄\＃\＃．\＃\＃＂．To set price：

1．All selections．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note：The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the＂摂＂key and the display will show ＂PR\＄\＃\＃．\＃\＃All Set＂，press＂资＂to enter more prices or CLR to exit to SET PRICE．
2．One tray．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note：The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the tray letter desired for setting price． Press＂孟＂and display will show＂PR \＄\＃\＃．\＃\＃ B（tray letter）Row Set＂，press＂＊＂to set more prices or CLR to exit to SET PRICE．
3．Single selection．Press the keypad numbers of the price you wish to use．As numbers are entered the numbers will shift in from the right as they are entered．Note： The CLR key will remove the last \＃of the price．Once the desired price is showing on the display press the selection desired for setting price．Press＂准＂and display will show＂PR \＄\＃\＃．\＃\＃B1 Selection Set＂，press
＂费＂to set more prices or CLR to exit to SET PRICE．
The last price entered for a selection is the one that is used．For example，If one price on the A tray was set to $\$ 1.50$ using option 3 above and you wish to change the remaining selections on that tray using option 2，the pricing for the entire tray would take precedence．Conversely，if the price was set using option 2 first followed by the single selection using option 3 ，the pricing for the remainder of the shelf would remain and the new price for the single selection would change to the new value．Press the ＂CLR＂key to return to＂Set Prices＂．Press the＂CLR＂ key to return to＂SERVICE MODE＂or press the＂A＂ key to advance to the next menu item below．

## SET SHELF LOCATION－Key＂ 8 ＂

Allows the service technician to program the electronics to match the six different settings available for the shelves．These settings are available to vend different package heights．The factory default setting is Shelf Setting G．Press the number＂8＂on the keypad and display will show＂Set Shelf Location＂．Press the＂摂＂key and display will show current setting．To change the setting press one of the following：$A=G$ setting，$B=M 1$ setting，$C$ $=M 2$ setting，$D=D$ setting，$E=E 1$ setting，$F=E 2$ setting．Note G，M1，\＆M2 settings are used in venders prior to 0001－8487AE and D，E1，\＆E2 settings are used in venders 0001－8487AE \＆higher． Once the desired setting is showing on the display press the＂费＂key to save the setting．Note：all shelf settings have to be physically set to match the programmed setting．You can not set the physical shelf settings differently．Press the＂CLR＂key to return to＂Set Shelf Location＂．Press the＂CLR＂key to return to＂SERVICE MODE＂or press the＂$A$＂key to advance to the next menu item below．

## RELAY TOGGLE－Press key＂9＂

Allows the service technician to test the Light Relay， Fan Relay，and Compressor Relay．Press the number＂ 9 ＂on the keypad and the display will show ＂Relay Toggle＂．Press the 粦 Key and display will show＂Light A－On or Off＂，＂Fan B－On or Off＂， ＂Compressor C－On or Off＂．Display will show current status of the relay（not the component the relay operates）．To toggle the state of a given relay press the letter key associated with it on the display． Caution：Disconnect power to the compressor before testing the compressor relay．Failure to disconnect power to the compressor before testing the relay could result in damaging the compressor．Press the ＂CLR＂key to return to＂Relay Toggle＂．Press the ＂CLR＂key to return to＂SERVICE MODE＂or press the＂$A$＂key to advance to the next menu item below．

CLEAR ERRORS－Press key＂ 0 ＂
Allows the service technician to clear errors recorded in the venders data．Press the number＂0＂

Key and the display will show＂CLEAR ERRORS＂， then press Key and the display will show＂Clear All Errors？资 $=$ Y CLR＝N＂．Press the＂CLR＂key to return to＂Clear Errors＂．Press 摂 Key to clear all errors or press the＂CLR＂key to return to＂SERVICE MODE＂．

## TEST MODE

Enter TEST MODE by opening the service door and pressing the blue Service button twice．The display will read＂TEST MODE＂．

NEXT ITEM－Press key＂A＂

## LIST ERRORS－Press key＂B＂

Allows the service technician to view a list of all recorded errors．Press the letter＂B＂on the keypad and the display will show＂LIST ERRORS＂，then change to＂NONE＂if no errors exist or，if errors are present，one of the error prompts below will be displayed．If an error code is displayed，press the ＂摂＂key to view the next error until＂END LIST＂is displayed．With＂END LIST＂showing on the display， press the＂米＂key to clear errors and return to TEST MODE．If you wish to exit the list without clearing errors，simply push the＂CLR＂key and the display will return to LIST ERRORS．If the CLR key is pressed prior to reaching the end of the list，the display will jump to END LIST．Explanations for the error codes are listed below．Note：The prompts listed will only show on the display if an error has occurred．

NONE No errors have occurred．
VEND MECH ERROR
HORIZ－Horizontal Drive System problem．
VERT－Vertical Drive System problem．
PICKI－Picker not all the way in problem．
PICKO－Picker out switch error problem．
PORT－Port Drive System problem．
VS－Vend Sensor problem．
VMC ERRORS
FRAM－Memory module read／write error．
RTC－RTC read／write error，clock error．
SF－Decimal error．
RCRC－software not loaded properly．
LB－Low battery．
PWR OUT－Power lost．
KEYPAD ERROR
KEYPAD－Keypad not installed．
COIN MECH ERROR
CC－Coin Mech disconnected．
TS－Tube Sensor defective．
IC－No coin accepted for 96 hours（4 days）．
TJXX－Tube jam．
CRCH－Check sum．


NOT USED - Press key "C" (NOT AVAILABLE)
NOT USED - Press key "D" (NOT AVAILABLE)
KEYPAD TEST - Press key "E"
Allows the service technician to test any or all keypad keys. Press the letter "E" on the keypad and the display will show "KEYPAD TEST". Press the "来" key and the display will show "Keypad Test", then press each key on the keypad. Each key pressed will show on the display until the "CLR" key is pressed. The display will return to "Keypad Test". Press the "CLR" key to return to "TEST MODE" or press the " $A$ " key to advance to the next menu item below.

## FACTORY DIAGNOSTICS - Press key "F"

Allows the service technician to test the XY and Cup port operations. The following are available in the test menu: $1=$ Position Test, $2=$ Port Test, $3=$ currently not used, $4=$ Repeat Vend, $5=$ Vend Error Codes, $6=$ Use Port Sensor, $7=$ Turns off vend mech for software test, $8=$ Adjust shelf offset. To enter the available modes press the " F " Key on the keypad and display will show "FACTORY DIAGNOSTICS". Press the ""w" key and the display will show " 1 = Position Test, 2 = Port Test". Press the key \# you wish to enter. Note: In early software revisions Port Test was 4, Repeat Test was 2, \&

Shelf Offset was 8. Below is current programming as of $1 / 16 / 06$.

1. Position Test. Note: The top door switch must be pulled to the out position to perform this test. Caution: XY needs to be in the home position before performing this test. If you look at the control board the green, amber (yellow), and red lights should be on at this time. If not please check the following: Green light is for home switch on bottom of port cup, amber light is for home switch on left side of Y motor assembly, red light is for home switch for picker cup plunger. Press the number 1 key and the display will show a set of numbers (ie \#\#\#\#\#\# \# \#\#\#\#\#\# \#). To position test press the following:
a. Shelf letter (A,B,C,D,E) to travel to selected shelf.
b. Column number (1,2,3,4,5,6,7,8, \& 9) to travel to selected column.
c. Key " 0 " to cycle cup plunger to hit column target.
d. Key "F" to return cup to home position.
e. Key "承" is all stop.
2. Port Test. Press the number 2 key and the display will show four numbers "\#\#\#\#". The $1^{\text {st }} \#$ is Port Open switch and $0=$ Port not open or $1=$ Port opened. The $2^{\text {nd } \#}$ is Port Closed switch and $0=$ Port not closed or 1 Port closed. The $3^{\text {rd }} \#$ is Sensor and $1=$ Sensor on or $0=$ Sensor off. The $4^{\text {h }}$ \# is Vend detect (only if Sensor is on) $0=$ No product in port or 1 Product in port. To test the port press the following:
a. Key " A " to open port.
b. Key "B" to close port.
c. Key "C" to turn sensor on. When turned on and something is placed in the port a red LED will light on the board.
d. Key "D" to turn sensor off.
e. Key "E" to toggle Cup LED light.
f. Key "F" to toggle Port LED light.
g. Key "*" All Stop on any of these tests.
3. Currently not used
4. Repeat Vend. Press the number 4 key and the display will show "Current Vend: \#\#\#\#\#\#\#\#\#" and start auto test vending each column. Press the "CLR" key to stop the test
5. Vend Error Codes - Caution: Factory Use Only do not use.
6. Use Port Sensor. Press the number 6 key and display will show current status.

Factory default is On．To toggle to Off／On press the＂嗉＂key．
7．Turns off vend mech for software test． Caution：Factory use only for peripheral testing，do not use．
8．Adjust Shelf Offset．Press the number 8 key and the display will show＂Shelf Offset 9200， 3310 counts＝ 1 inch＂． This is the factory default．To change the offset enter a new number and press the＂＊＂key to save and display will show ＂\＃\＃\＃\＃Offset recorded．Then press ＂CLR to go back to＂Factory Diagnostics＂．Go back to Position Test and check the plunger is contacting the targets correctly．
Press the＂CLR＂key to return to＂Factory Diagnostics＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## TUBE FILL／DISPENSE－Press key＂1＂

Allows the service technician to inventory currency in the coin mechanism escrow tubes and＂Teach＂the controller how many coins of each denomination are in that inventory．This allows for the maximum number of dollar bills to be accepted prior to enabling the＂USE EXACT CHANGE＂function．This also provides for exact cash accountability in the audit functions．This function can also be used as a diagnostic tool to insure the coin mechanism is responding properly．Press the number＂1＂on the keypad and the display will read ＂TUBEFILL／DISPENSE＂．．Press the＂象＂key and the display will show the lowest denomination accepted and the number of these coins inventoried．Press the letter＂A＂on the keypad to show through the denominations available．With a given denomination displayed，an inserted coin of this denomination via the coin chute will increase the inventory shown． Note：When you insert any denomination the display will change to show the denomination inserted．To dispense：while in the tube fill／dispense mode go to the coin mech and press the coin mech dispense button（s）for the tube you wish to dispense from or press the Key and the denomination displayed will be dispensed to the coin cup and the inventory will be decreased．Press the＂来＂Key again to stop the coins from being dispensed．Press the＂CLR＂key to return to＂Tube Fill／Dispense＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## DAYLIGHT SAVINGS TIME－Press key＂2＂

Allows the service technician to enable daylight savings time to be set as it applies to the selected Daylight Savings Rules Setting．Press the＂来＂key to show the current setting．Press the＂A＂key to scroll through the different settings that are
available．With the setting you wish to use showing on the display，press the＂＂⿻⿱乛⿰㇇⿰亅⿱丿丶三灬＂＂key．
－OFF－No Daylight Savings Time
－American Rules．If enabled，the VCU will set the clock back one hour on the last Sunday of October（2：00 AM），set the clock ahead one hour on the first Sunday in April （2：00 AM）．
－European Rules．If enabled，the VCU will set the clock back one hour on the last Sunday of October（1：00 AM），set the clock ahead one hour on the last Sunday in March（1：00 AM）．
－Australian Rules．If enabled，the VCU will set the clock back one hour on the last Sunday of March（1：00 AM），set the clock ahead one hour on the first Sunday in October（1：00 AM）．
Press the＂CLR＂key to return to＂Daylight Savings Time＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂$A$＂key to advance to the next menu item below．

## NOT AVAILABLE MODE－Press key＂ 3 ＂

This setting works in conjunction with the＂SET NOT AVAILABLE TIME＂（option 3 in Setup Mode 1）．This setting must be showing＂Not Available \＃On＂in order for the Not Available times to function as programmed．This mode can also be used to manually disable the times established in＇NOT AVAILABLE TIME＂mode as long as the function is set to＂Not Available \＃Off＂．Press the number＂ 3 ＂on the keypad and the display will show＂NOT AVAILABLE MODE＂．Press the 米 Key and display will show＂Select Block（1－4）．Press the select block group you wish to enter．Display will show ＂Not Available \＃：On（Off）Press 粦 turn off（on）to change the status．Factory default for this setting is Off．Pressing the＂蜱＂key will toggle the state and set the controller to the new condition shown on the display（pushing the＊ey with ON on the display will ALLOW the not available mode to function as programmed）．Press the＂CLR＂key to return to＂Not Available Mode＂．Press the＂CLR＂key to return to ＂TEST MODE＂or press the＂$A$＂key to advance to the next menu item below．

## CREDIT TIMER MODE－Press key＂ 4 ＂

Allows the service technician to set the vender to cancel a credit or keep a credit showing on the display after 5 minutes．Press the number＂4＂on the keypad and the display will show＂CREDIT TIMER MODE＂．Press the 类 Key and the display will show ＂Credit Timer：Off（On）Press 类－turn On（Off）． ＂Credit Timer Off＂will save a credit indefinitely． ＂Credit Timer On＂will only save a credit for five minutes．Press the＂CLR＂key to return to＂Credit Timer Mode＂．Press the＂CLR＂key to return to
＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## DOOR OPEN－Press key＂ 5 ＂

Shows number of times the service door has been opened since last＂CLEAR TOTALS＂or MASTER RESET＂．Press the number＂ 5 ＂on the keypad and ＂DOOR OPEN＂will show on the display．Press the ＊Key and＂Door Opened \＃Times \＃\＃：\＃\＃\＃\＃Month YEAR＂will show on display．This is the number of times the service door has been opened since the last＂CLEAR TOTALS＂or＂MASTER RESET＂and the time，day，and date of the last opening．Press Key＂A＂to see the time of the 5 previous openings． Press the＂CLR＂key to return to＂Door Open＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂$A$＂key to advance to the next menu item below．

## POWER OUT－Press key＂ 6 ＂

Shows the number of times the machine has lost power since last＂CLEAR TOTALS＂or＂MASTER RESET＂．（This is a power outage for any reason including the machine being unplugged or the machine＇s master power switch being turned off）． Press the number＂ 6 ＂on the keypad and＂POWER OUT＂will show on the display，press the Key and ＂Power Lost \＃Times will show on the display and the date and time of the last outage which is the number of times power has been lost to the control board since the last＂CLEAR TOTALS＂or＂MASTER RESET＂．Press Key＂A＂to see the time of the 5 previous outages Press the＂CLR＂key to return to ＂Power Out＂．Press the＂CLR＂key to return to ＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## TEST HEALTH GUARD－Press key＂7＂

This setting is in place to test the functioning of the health guard system by simulating a Health Code Error．Once activated，any selections programmed in＂HEALTH CONTROL MODE＂in the Setup Mode 1 will be disabled．To test health guard，press the number 7 on the keypad and the display will show ＂TEST HEALTH GUARD＂．Push the＂盗＂key and the display will change to＂Test Health Guard？$=Y$ $C L R=N$ ．Press and display will show Health Guard＂then change to＂Activated＂．The display will then return to＂TEST HEALTH GUARD＂．Within one minute of returning the vender to service，items that were turned on in＂HEALTH CONTROL MODE＂ setting in SETUP MODE 1 will be put out of service． Additionally，a＂HEALTH＂error will be displayed in ＇LIST ERRORS＂．Errors must be cleared before programmed items can be returned to service． Press the＂CLR＂key to return to＂Test Health Guard＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## DISPLAY HEALTH GUARD－Press key＂8＂

Allows the service technician to view the selections that are listed under the＂HEALTH CONTROL MODE＂in the SETUP MODE 1．Press the number ＂ 8 ＂on the keypad and the display will read ＂DISPLAY HEALTH GUARD＂．Press the＂w＂key and the selection（s）that are listed under the health control will be displayed or＂NONE ASSIGNED＂if no selections are listed．Press the＂絭＂key to continue． Press the＂CLR＂key to return to＂Display Health Guard＂．Press the＂CLR＂key to return to＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## TEST VEND－Press key＂9＂

Allows the service technician to test vend any item． The service door must be closed or open all the way so the discharge door does not hit the delivery cup during the test vend process．You will need to catch the product if you test with door open．Press the number＂ 9 ＂on the keypad and the display will read ＂TEST VEND＂．Pull the top door switch in service door area to the out position for this test to work． Press the＂鿟＂key and the display will read＂ENTER SELECTION＂，you may close and lock door at this point if you wish to test with door closed．Select the item／column to be tested by pressing the corresponding keys on the keypad（i．e．A6），then press the 粦 Key to start the test vend，and the corresponding vend cycle will occur．Press the ＂CLR＂key to return to＂Test Vend＂．Press the＂CLR＂ key to return to＂TEST MODE＂or press the＂A＂key to advance to the next menu item below．

## SHOW CHECKSUMS－Press key＂0＂

This function is used by Factory Engineers only．

## SETUP MODE 1

Enter SETUP MODE 1 by opening service door and pressing the Service button three times．The display will read＂SETUP MODE 1＂．NOTE：Several areas in SETUP MODE 1 are password protected．When entry into one of these areas is attempted the display will read＂Password＂if a password has been entered in SETUP MODE 1．The password must be entered at this point before the service technician is allowed to proceed．The password need only be entered once during a service call provided the service door is not closed．If the door is closed and then re－opened，the password must be entered again before accessing a protected area．The factory default password is 0000 ．If the password is set at 0000 you will not be required to enter a password to access password protected modes． The display will show 摂＇s as the password is entered．When the last character is entered，the
display will read＂OK＂，and hen will shift into the requested area．If the display reads＂BAD＂after the last character is entered this means the password was not accepted．

## NEXT ITEM－Press key＂A＂

## ENTER MESSAGE－Press key＂B＂

## （PASSWORD REQUIRED）

Allows the entry of a custom idle message to replace the default idle message．Press the letter＂ B ＂on the keypad and＂ENTER MESSAGE＂will show on the display．Press the＂＂⿻丷木大＂key and＂Edit Idle Message Enjoy a Refreshing Drink＂will show on display with the first character on the left highlighted．The program is now ready to accept the new message． The＂A＂key will move forward through the alphabet， numbers，space，punctuation marks，\＄，AND a＂L＂． The＂B＂key will move backwards through the same list．When the desired character is displayed，press the＂摂＂key．That character is now entered and the display moves to the right one space as the new message is built．Press with the curser showing ＂\｛＂and the curser will back up one space．Press the粦 Key with the curser showing＂ $\mid$＂will clear all characters to the right of the curser．When the new message is complete，press the＂CLR＂key and return to＂Enter Message＂．Press the＂CLR＂key to return to＂SETUP MODE 1＂or press the＂A＂key to advance to the next menu item below．

## CLEAR MESSAGE－Press key＂C＂ <br> （PASSWORD REQUIRED）

Allows the service technician to clear any custom idle message and return to the default idle message． Press the letter＂$C$＂on the keypad and the display will show＂CLEAR MESSAGE＂．Press the＂w＂key and the display will read＂Clear Message？䊉 $=\mathrm{Y}$ CLR $=\mathrm{N}$ ，pressing the＊Key will set idle message back to factory default and then will return to＂Clear Message＂．Press the＂CLR＂key to return to＂SETUP MODE 1 ＂or press the＂$A$＂key to advance to the next menu item below．

## ENABLE／DISABLE \＄－Press key＂D＂

## （PASSWORD REQUIRED）

Allows the service technician to remove the dollar sign（\＄）from the display when a product price， customer credit，or change due is displayed．When enabled，the dollar sign will appear in the display； when disabled it will not appear．Press the letter＂$D$＂ on the keypad；the display will show ＂ENABLE／DISABLE \＄＂．Press the 粦 key and display will show＂Dollar Sign：On（Off）Press 枋－turn Off （On）．Press the 类 Key to toggle．Press the＂CLR Key to return to＂Enable／Disable \＄＂．Press the＂CLR＂
key to return to＂SETUP MODE 1＂or press the＂A＂ key to advance to the next menu item below．

## SET HAPPY HOUR TIME－Press key＂E＂

（PASSWORD REQUIRED）
Allows the service technician to set times and days for Happy Hour operation．Press the letter＂E＂key and＂SET HAPPY HOUR TIME＂will show on the display．Press the Key again and Happy Hour start time，end time，and days of the week can now be programmed into the system．All times must be entered in military time format（ 24 hour clock）． Setting Happy Hour is covered in detail in the＂SET NOT AVAIL TIME＂in the INITIAL PROGRAMMING section of this manual．Press the＂CLR＂key to return to＂SETUP MODE 1＂．

## MASTER RESET－Press key＂ F ＂

（PASSWORD REQUIRED）
Allows the service technician to restore factory defaults to the machine or reset the Controller Board＇s memory after installing a new EPROM． Since this feature resets interval sales data，care should be taken prior to using．Press the letter＂F＂ on the keypad and＂MASTER RESET＂will show on the display．Press the＂解＂key and the display will read＂Master Reset Continue？粈 $=\mathrm{Y} C L R=$ N．To reset press the 粕 Key and display will show ＂Resetting＂then show software version and then the idle message will scroll．Press the＂CLR Key to return to＂Master Reset＂．Press the＂CLR＂key to return to＂SETUP MODE 1＂or press the＂A＂key to advance to the next menu item below．Please see table on next page for programming options effected by MASTER RESET．NOTE：A power out aror message will be generated when a master reset is performed．The table outlines the results of using MASTER RESET．

| ITEM | RESET TO |
| :---: | :---: |
| CASH BOX | $\$ 0.00$ |
| SALES | $\$ 0.00$ |
| NUMBER SOLD | 0 |
| SALES PER COLUMN | 0 |
| ESCROW | OFF |
| FORCE | OFF |
| SET REGULAR PRICES | 99.95 |
| SET HAPPY HOUR PRICES | 99.95 |
| LIST ERRORS | Pwr Out |
| TUBE FILL／DISPENSE | CLEARED |
| DAYLIGHT SAVINGS | OFF |
| NOT AVAILABLE | OFF |
| CREDIT TIMER | OFF |
| DOOR OPEN | 0 |
| POWER OUT | 1 |
| IDLE MESSAGE | RESET |
| ENABLE DOLLAR SIGN | ON |


| MACHINE NUMBER | UNCHANGED |
| :---: | :---: |
| SET HAPPY HOUR | CLEARED |
| NOT AVAILABLE TIME | CLEARED |
| HEALTH CONTROL | OFF |
| PASSWORD | 0000 |
| STS ENABLE | OFF |
| CUSTOM STS | CLEARED |
| NOVEND LIMIT | 0 |
| SOLD OUT | ENABLED |
| PRICE DISPLAY | ON |
| SHELF CONFIG | G |
| INTERVAL CLEARING | OFF |
| DISPLAY TEMPERATURE | ON |
| TEMPERATURE UNITS | DEG F |
| SERIAL \＃ | UNCHANGED |
| LOCATION ID | UNCHANGED |
| CR ASSET \＃ | UNCHANGED |
| NA ASSET \＃ | UNCHANGED |
| CM ASSET \＃ | UNCHANGED |
| SOLD OUT TIMES | CLEARED |
| DEX PASSWORD | O00000 |
| DOOR OPEN TIME | CLEARED |
| POWER OUT TIME | CURRENT TIME |
| STORAGE TEMP | 57 DEG F |
| REFRIG TEMP | 37 DEG F |
| CONSUMER OVERPAY | OFF |

MACHINE NUMBER－Press key＂1＂
（PASSWORD REQUIRED）
Allows assigning a user number to the machine for audit and／or inventory control requirements．Press the number＂ 1 ＂on the keypad and＂MACHINE NUMBER＂will show across the display and then change to the number currently assigned to the machine（i．e．ID 1）．Press the＂来＂key and the display will read＂ID＂．Enter the new number （numeric field， 4 characters maximum）．If the new number is less than 4 characters press the＂乘＂key after entering it and the display will read＂OK＂ momentarily and will return to＂SETUP MODE＂． Press the＂CLR Key to return to＂Machine Number＂． Press the＂CLR＂key to return to＂SETUP MODE 1＂ or press the＂$A$＂key to advance to the next menu item below．

## SET HAPPY HOUR－Press key＂2＂

（PASSWORD REQUIRED）
Allows the service technician to turn Happy Hour ON or OFF．Press the number＂ 2 ＂on the keypad and ＂SET HAPPY HOUR＂will show across the display． Happy Hour．Press the＊＊Key and display will show ＂Happy Hour：Off（On）．Press 粦－turn On（Off）． Press the＂CLR Key to return to＂Set Happy Hour＂． Press the＂CLR＂key to return to＂SETUP MODE 1＂ or press the＂$A$＂key to advance to the next menu item below．

SET NOT AVAIL TIME－Press key＂ 3 ＂
（PASSWORD REQUIRED）

Password protected．Before entering or changing this setting you must enter the password if one has been assigned．This mode allows up to 4 different time periods that use of the machine may be restricted．Refer to Initial Set Up section Set Not Available Times．

## CONSUMER OVERPAY－Press key＂4＂

## （PASSWORD REQUIRED）

Allows the service technician to set the machine up to allow consumer overpay to vend．This will allow a vend if there is not enough change in the mech to be paid to consumer．Factory default will be Off．Press the number＂4＂key and display will show＂Consumer Overpay＂．Press 粦 Key and display will show ＂CONSUMER OVERPAY OFF（ON），Press 类－turn ON（OFF）＂will show on the display．Press the＂管＂ Key to toggle setting and press CLR return to ＂Consumer Overpay＂．Press the＂CLR＂key to return to＂SETUP MODE 1＂or press the＂A＂key to advance to the next menu item below．

DATE／TIME＿－Press key＂ 5 ＂
Shows the year，month，date，and time setting currently in the system in following format： 2005 Apr 28 15：45．Setting the day，date，and time is covered in the INITIAL PROGRAMMING section of this manual．Press the＂CLR＂key to return to＂SETUP MODE 1＂．

## TOTAL SALES－Press key＂ 6 ＂

Shows total sales since machine manufacture．This total is not cleared by CLEAR TOTALS．Press the number＂ 6 ＂on the keypad，the display will show ＂TOTAL SALES＂press the 粦 Key and＂Sales：\＃\＃\＃ and Vend \＃\＃\＃totals will show on display．Press the ＂CLR＂key to return to＂Total Sales＂．Press the ＂CLR＂key to return to＂SETUP MODE 1＂or press the＂$A$＂key to advance to the next menu item below．

## HEALTH CONTROL－Press key＂7＂

Allows the service technician to select items to ENABLE HEALTH CONTROL．When enabled，if the temperature in the vender does not reach 41 degrees F within 30 minutes after the service door is closed，a＂HEALTH TIME＂error will occur and lockout the enabled selection（s）from vending until after the error is cleared．Also，if the temperature in the vender goes above 41 degrees $F$ for more than 15 minutes after the initial cool down period，a ＂HEALTH CONTROL＂error will occur and lockout the enabled selection（s）from vending until the error is cleared．Press the number＂ 7 ＂on the keypad and the display will show＂HEALTH CONTROL＂．Press the＂来＂key and the display will show＂ENTER SELECTION＂．To set：

1．All selections．Press the key and display will show＂Disabled（Enabled） Continue？粦 $=\mathrm{Y}$ CLR $=\mathrm{N}$ ．When enabled
all selections in the vender will now be set for health control．Press CLR to show all selections assigned．Then press CLR and the display will change to＂ENTER SELECTION＂．Press CLR to return to ＂HEALTH CONTROL＂．
2．One tray．Pressing the letter of the shelf followed by the 粦 key and display will show ＂Disabled（Enabled）Continue？＊$=$ Y CLR $=$ N ．When enabled all selections on that shelf will now be set for health control．For example，to control the A shelf push key＂A＂ followed by＂承＂key．The display will change to＂ENTER SELECTION＂．Press CLR to display all selections assigned then press CLR to return to＂HEALTH CONTROL＂．
3．Single selection．Pressing the desired selection followed by the 粦key and display will show＂Disabled（Enabled）Continue？＊ $=\mathrm{Y} C L R=\mathrm{N}$ ．When enabled desired selection will now be set for health control． For example，to control the A1 push keys ＂A1＂followed by＂製＂key．The display will show＂Disabled（Enabled）＂etc．．．Press CLR to display all selections assigned then press CLR to return to＂HEALTH CONTROL＂．

Priority will be given to the higher ranked method．If one selection on the A tray was set to ENABLE using ption 3 above and you wish to change the remaining selections on that tray using option 2 ，the Setting for the entire tray would take precedence． Conversely，if the tray was set using option 2 first followed by the single selection using option 3 ，the setting for the remainder of the shelf would remain and the new price for the single selection would change to the new value．Press＂CLR＂to return to ＂SETUP MODE＂．

## UPDATE SOFTWARE－Press key＂ 8 ＂

（PASSWORD REQUIRED）
Allows the service technician to manually load software if needed．New software automatically loads on power up．Caution：If this mode is entered with no eprom installed in controller，it will cause control board failure．The following information describes how to update software．All new software revisions will automatically update the software revision in the control board．Important：Eproms containing software are sensitive to Electrostatic Discharge（ESD）．Failure to handle the Eprom carefully could cause damage，which may result in a failed control board．ALWAYS KEEP THE EPROM
IN THE ESD TUBE．GROUND YOURSELF ON THE VENDER CABINET BEFORE REMOVING THE EPROM FROM THE ESD TUBE OR CONTROL BOARD．AN EPROM CAN BE USED TO PROGRAM MANY VENDERS，AS LONG AS CARE IS TAKEN NOT TO DAMAGE the

EPROMS LEGS．ALWAYS TURN POWER OFF BEFORE REMOVING OR INSTALLING EPROMS IN THE CONTROL BOARD．Important Notes：Use the programming section of the manual to program the vender．

1．EPROM Removal：
a．Power down the Vender．Ground yourself on the vender cabinet before removing the EPROM from the ESD tube or control board．
b．If an Eprom is present in the control board，remove the existing Eprom．
i．Note；An Eprom does not need to be in the control board after the control board has been programmed．The Eprom can be used to program other boards．
c．Verify the pins of the new Eprom are not bent before installing in the Eprom socket．
d．Install the new Eprom in the Eprom socket．Ensure the Eprom is oriented correctly with its reference marker（locator）in the same direction as the reference marker （locator）of the Eprom socket．Do not rely on the Eprom label for orientating the Eprom．
2．Automatic Reprogramming：
a．Turn power on to Vender．When auto－updating the display will show old version for a few seconds while the red LED on the control board blinks．
b．Display will change to＂EPROM UPGRADE．．．＂for approximately 10 seconds with the green LED rapidly blinking．
c．Display will change to new version software with red LED blinking at a steady heart beat rate．
3．Manual Reprogramming（used if Eprom does not automatically reprogram）：
a．At power up，the current software version will be displayed．To manually program the control board with the new software，press the service switch on the control board to enter service menus．Advance to ＂UPDATE SOFTWARE＂．Press the粦 Key．Display will show ＂Reprogramming Vendor＂while the yellow LED blinks．
b．Display will show new software revision，then return to stand by． This confirms new software has been successfully updated．
Note：to remove the Eprom after programming， remove power to the vender，ground yourself on the
vender cabinet before removing the Eprom，remove the Eprom，while still grounded install a label on the microprocessor showing the revision of software that is installed in the controller，power the vender back on and test for proper operation．

## SET LIGHTS OFF TIME－Press key＂ 9 ＂

Allows the service technician to set times and days for Light operation．Press the number＂ 9 ＂key and ＂SET LIGHTS OFF TIME＂will show across the display．Lights Off start time，end time，and days of the week can now be programmed into the system． All times must be entered in military time format（ 24 hour clock）．Set Lights Off Time can be set the same way as Set Not Available Time in the Initial Programming section of the manual．

## ENTER NEW PASSWORD－Press key＂ 0 ＂

## （PASSWORD REQUIRED）

Allows the service technician to enter a 4 number personalized password．IF YOU DECIDE TO CHANGE FROM THE DEFAULT PASSWORD， PLEASE ENTER THE NEW FOUR NUMBER PASSWORD SLOWLY AND CAREFULLY！！！Press the number＂ 0 ＂on the keypad and＂ENTER PASSWORD＂will show across the display．Press the＂米＂key and the display will read＂ENTER PASSWORD＂．Enter the new password，the display will show 洣 for each character Key pressed．Once new password is complete press 粦 Key to save． Display will show＂Verify new password＂，press new password，then the Key．Display will show ＂Password recorded Continue？＊$=\mathrm{Y}$ CLR $=\mathrm{N}$ ． Press the＂CLR Key to return to＂ENTER NEW PASSWORD＂．Press the＂CLR＂key to return to ＂SETUP MODE 1 ＂or press the＂A＂key to advance to the next menu item below．

## SETUP MODE 2

Enter SETUP MODE 2 by opening the main door and pushing the Service button four times．The display will read＂SETUP MODE 2＂

## NEXT ITEM－Press key＂A＂

## STS ENABLE／DISABLE－Press key＂B＂

Turns Space－to－Sales Mode On and Off．When On， Space－to－Sales vends are performed according to the configurations defined using＂DEFAULT STS＂ and／or＂CUSTOM STS＂．Press the Letter＂B＂on the keypad．The display will show the current state of the Space－to Sales vend mode as＂STS ON＂OR ＂STS OFF＂．Press the 粦 Key，there are now two choices：

1．Press the＂CLR＂key to leave the Space－to－ Sales vend mode unchanged and return to ＂SETUP MODE 2＂

2．Press the＂楾＂key to toggle the state on or off．The dsplay will show a new message indicating the updated state．
Press the＂CLR Key to return to＂STS ENABLE＂． Press the＂CLR＂key to return to＂SETUP MODE 2＂ or press the＂$A$＂key to advance to the next menu item below．

## CUSTOM STS－Press key＂C＂

Configures the Vender Space－to－Sales according to what is set．Press the letter＂C＂on the keypad．The display will show＂Custom STS＂．Press the 粦 Key and display will show＂Enter Start Loacation＂．

1．Pressing the＂象＂key will set STS to a one to one configuration such that each selection is mapped only to it＇s corresponding column．

## Note：This setting overrides any previously defined Space－to－Sales blocks．

2．Pressing a tray selection followed by＂咸＂will configure an entire tray as a single Space－ to－Sales block．Example is selections A1 through A9 vend from columns A1 through A9 sequentially．
3．Pressing an item selection（A1）will specify the first product of the Space－to－Sales block． After the first item is programmed，the display will change to＂Enter end location＂． Press the item selection corresponding to the last item in the block．This option may transcend more than one shelf，i．e．A1 to B9． In all of the above options，after a selection is made， Display will show＂OK？粦 $=\mathrm{Y}$ CLR $=\mathrm{N}$ ．You must press 粦 at this prompt to save your setting．Press ＂CLR＂at any time to return to SETUP MODE 2.

## DEFAULT STS－Press key＂D＂

Configures the Vender Space－to－Sales to the preset mappings．Press＂$D$＂on the keypad and the display will show＂DEFAULT STS＂．Press the＂＂管＂key to configure Space－to－Sales in preset blocks of three （A1－A3，A4－A6，A7－A9，B1－B3，．．．）．Display will show＂Set Default STS？潘 $=$ Y CLR $=$ N．You must press＊at this prompt to accept Default STS．Press ＂CLR＂at any time to return to SETUP MODE 2.

## DISPLAY STS－Press key＂E＂

Allows verification of the Vender Space－to－Sales settings for an individual selection block．Press the letter＂E＂on the keypad．The display will show ＂DISPLAY STS＂．Press the＂感＂key and the display will change to＂ENTER SELECTION＂．Enter any selection item，press the＊Key，and the display will read＂\＃\＃－\＃\＃\＃\＃Continue？粦＝Y CLR＝N．The first \＃\＃indicates the first column in the selection＇s block． The second \＃\＃indicates the last column in the selection＇s block．The last \＃\＃indicates the column that the next vend will come from in this STS block． For example，entering＂A2＂might display＂A1－A3

A1，indicating that selection A2 is part of the block that spans between A1 and A3 and that A1 selection is next in line to be vended．Press＂CLR＂at any time to return to SETUP MODE 2.

## SET NOVEND LIMIT－Press Key＂F＂

If a Vend fails－either due to a vend error or no product detected in the recovery unit－and the drop sensor is enabled，the VMC will mark the column as sold out．If the Spaceto－Sales is enabled，the product column will be removed form the Space－to－ Sales rotation and the VMC will attempt to vend from the next column in the Space－to－Sales block．If the vender is unable to vend any products from a Space－to－Sales block，the customer＇s credit will be returned and the entire block will be marked as ＂SOLD OUT＂．Press the＂F＂key on the keypad．The display will show＂SET NOVEND LIMIT＂．Press the ＂来＂key and the display will show＂NOVEND LIMIT \＃＂．The value \＃is the current vend limit which is applied to each selection．When \＃is 0 ，no vend limits are enforced．Enter the desired vend limit and press the＂絭＂key to accept this value or press the ＂CLR＂key to cancel changes and return to SETUP MODE 2．The NOVEND limit specifies the number of times a location can be vended empty before it is blocked as＂Sold Out＂．

MULTIVEND－Press key＂1＂（NOT AVAILABLE）
NOT USED－Press key＂2＂（NOT AVAILABLE）

## SOLD OUT ENABLED／DISABLED－Press

key＂3＂
Controls sold out detection by the port sensor． When＂On＂，a signal is sent to the VCU when the port sensor does not detect a selected item．That signal tells the VCU that the item selected is sold out and removes it from the STS block until the next time the vender is serviced．Press the number＂ 3 ＂ on the keypad．The display will show＂SOLD OUT ENABLED（DISABLED）＂．Press the＂紫＂key and display will show＂Use Port Sensor：Off（On），Press米－turn On（Off）．Press＂CLR＂to exit without making changes and return to＂SOLD OUT ENABLE／DISABLE＂．Press＂CLR＂to return to ＂SETUP MODE 2＂．

## PRICE DISPLAY－Key＂4＂

This setting controls whether the vender displays a price when a selection is made．Machines with a card reader capable of displaying selection prices may be configured to prevent dsplaying prices on two separate displays．Press the number＂4＂on the keypad and display will show＂Price Display＂．Press the 楽 Key and display will show＂Price Display：On （Off）．Press 类－turn Off（On）．Press the 当 Key to toggle or press the＂CLR＂key to exit without making
changes and return to＂PRICE DISPLAY＂．Press ＂CLR＂to return to＂SETUP MODE 2＂．

## STORAGE TEMP ENABLE／DISABLE－

Press key＂5＂
Press key 5 and display will show current state ＂Storage Temp Enable（Disable）．Press 絭 Key and display will show＂Storage Temp On（Off）．Press 粦－ turn Off（On）．Press the 类 Key to toggle or press the＂CLR＂key to exit without making changes and return to＂STORAGE TEMP ENABLE／DISABLE＂． Press＂CLR＂to return to＂SETUP MODE 2＂．

## INTERV AL CLEARING－Press key＂ 6 ＂

This function is used to indicate the state of the interval clearing setting．Press the number＂ 6 ＂key and＂INTERVAL CLEARING＂will show on display． Press the＊Key and display will show Interval Clear： Off（On）．Press 米－turn On（Off）．When turned ＂ON＂，the interval（resettable）data will automatically be cleared upon successful completion of a DEX audit．When turned＂OFF＂it allows for remote auditing devices that clear resettable data manually to be used to clear the data．Press the Key to toggle or press the＂CLR＂key to return to ＂INTERVAL CLEARING＂．Press＂CLR＂to return to ＂SETUP MODE 2＂．

## SET LIGHTS OFF－Press key＂7＂

The function is used to turn on the＂SET LIGHTS OFF TIME＂set in＂SETUP MODE 1＂．Press the number＂7＂key and＂SET LIGHTS OFF＂will show on display．Press the＂管＂Key and display will show ＂Lights Off：Off（On）．Press 粦－turn On（Off）．Press the＊Key to toggle or press＂CLR＂to return to＂SET LIGHTS OFF＂．Press＂CLR＂to return to＂SETUP MODE 2＂．

SET REFRIGERATION TEMP－Press key＂ 8 ＂ This is the same as＂Set Refrigeration Temperature＂ in Service Mode section of manual．

## SET STORAGE TIME－Press key＂ 9 ＂＂

This function is used set the Time，Date，and Day when Storage Temperature will be ON．Press the number＂ 9 ＂and＂SET STORAGE TIME＂will show across display．Set Storage Time can be set in the same manner as＂SET NOT AVAIL TIME＂covered in the Initial Programming Section of this manual．

SET STORAGE TEMP－Press key＂0＂＂
This function is used to set Storage Temperature． Press the number＂ 0 ＂key and＂SET STORAGE TEMP＂will show on display．Set Storage Temp can be set in the same manner as＂SET TEMPERATURE＂covered in＂SERVICE MODE＂ section of this manual．

## General Maintenance

The most important facets of proper care and maintenance of your machine are the electrical power supplied to it, leveling, and cleanliness of the machine.

## POWER

The machine must be connected to a dedicated 120 VAC, 15 Amp circuit (U.S. and Canada). CAUTION:
REMOVE POWER TO THE AC DISTRIBUTION BOX BEFORE CLEANING OR WHEN ANY ELECTRICAL COMPONENTS ARE CONNECTED / DISCONNECTED FOR TESTING OR REPLACEMENT.

## CLEANING

DO NOT USE A WATER JET OR NOZZLE TO CLEAN THE VENDER

## GLASS DOOR

The display glass should be cleaned inside and out with paper towels and glass or non-abrasive all-purpose cleaner. The gasket around the product door should be wiped down using warm water, any mild general purpose, non-abrasive cleaner and a soft towel. Never lubricate the gasket and always check for cracking or deformities which may cause leaks. Replace if necessary.

## VERTICAL LAMP LENS COVER

Then vertical lamp lens covers are of a polycarbonate material. Clean as needed with warm water only. Ammonia or alcohol based products will damage the lens cover.

## TRAYS / TRAY INSERTS

The trays and tray inserts should be cleaned periodically using warm water and a mild general purpose, non-abrasive cleaner. Care should be taken to ensure debris does not enter the gear box assemblies. DO NOT USE SOLVENTS OR ABRASIVE MATERIALS TO CLEAN ANY PORTION OF THE TRAY.

## DOOR LIGHTING

The machine is designed with an energy efficient T8 Lighting System. To ensure continued reliable operation, replace only with the same type and size lamps. Lamps must be properly installed and seated in the lamp holders.

## SLIDE/PUSHER ASSEMBLY

The slide/pusher assembly should be cleaned periodically using warm water and any mild
general-purpose non-abrasive cleaner. After drying, the slide assembly needs to have a coat of Armoral applied. Care should be taken to ensure debris does not enter the gear box assemblies. DO NOT USE SOLVENTS OR ABRASIVE MATERIALS TO CLEAN ANY PORTION OF THE TRAY.

## CABINET

Wash the cabinet with a good detergent or soap mixed in warm water. Wax the vender often with a good grade of automobile wax. Any corrosion inside the vender should be removed with fine steel wool and the area should be painted with white paint.
Repair any scratches on painted surfaces to prevent corrosion.

## DRAIN PAN, DRAIN TUBE, AND DRAIN HOSE

To prevent mold and mildew growth, and to avoid personal injury or property damage, the drain pan, drain tube, and drain hose must be properly aligned and routed. Ensure nothing obstructs the drain tube or drain hose and that the hose is not bent, pinched, or twisted in such a way as to prevent the flow of condensate. Periodically inspect the drain pan, drain tube, and drain hose for alignment and the presence of dirt, debris, mold, and mildew. Clean as needed.

## WARNING <br> THE COMPRESSOR ELECTRICAL CIRCUIT IS always live when the plug is connected TO AN ELECTRICAL OUTLET.

## REFRIGERATION CONDENSER

Clean the condenser periodically of dirt or lint build-up. Remove the build up with a brush or vacuum, or blow the dirt out of the condenser with compressed air and approved safety nozzle. Ensure nothing obstructs air intake at the bottom of the main door. Ensure nothing obstructs air exhaust at the rear of the cabinet.

## COIN ACCEPTOR

Follow the Coin Acceptor Manufacturer's instructions.

## LUBRICATING THE VENDER

The vender refrigeration system does not require any field lubrication. The hermetic refrigeration system and fan motors are manufactured with lifetime lubrication.

## AC DISTRIBUTION BOX

Bev Max 2
110 VAC units

| Main Power Switch / Plug | Interrupts hot side of incoming power to all components in machine. |
| :---: | :---: |
| 15 Amp Outlet (110 VAC) | Provides power to refrigeration unit. |
| Transformer (T1) | Provides 24 Volt and 12 Volt (center tap) power to the Controller Board. |
| Fuse (Center) | Is not used. Note: It is installed in domestic units only but is not used. |
| Fuse (Left) | 10 Amp, 32 Volt, SloBlo; protects 24 Volt input to Controller Board from secondary of T1. |
| Fuse (Right) | 1.25 Amp, SloBlo; protects 12 Volt input to Controller Board from secondary, center tap of T1. |

Varistor Across incoming AC power to remove large power spikes.

## Service Door Switches

Top or Left Switch - in XY Motor Circuits, Port Door Motor Circuit, and Picker Motor Circuit. (Power Interrupt)

Bottom or Right Switch - in Controller and Electronic Lock Circuit.


| ITEM | CONNECTION | DESCRIPTION | ITEM | CONNECTION | DESCRIPTION |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | P1 | Power from AC <br> Distribution Box | 9 | P12 | Not Used |
| 2 | P14 | Cup Signal \& Y <br> Encoder | 10 | J 2 | Not Used |
| 3 | P15 |  <br> Encoder | 11 | J 5 | DEX |
| 4 | P2 | Product Port | 12 | J 11 | Keypad |
| 5 | P6 | Display | 13 | J 12 | Temp Sensor |
| 6 | P7 | Relays | 14 | J 16 | Multi Drop Bus |
| 7 | P8 | Y \& Cup Motors | 15 | U 17 | EPROM Socket |
| 8 | P10 | Door Switch | 16 | P3 | Door Switch XY |

## BEV MAX 2 TROUBLESHOOTING "XY" ISSUES

1. Selection will not vend.
a. Does a different selection vend?
i. Perform TEST VEND in TEST MENU ensure proper selection vends.
ii. Check Custom Space-To-Sales has been enabled.
2. Check STS configuration in SETUP MODE 2 Menu.
b. Did the gate actuate at all?
i. Plunger cycled but gate but did not fully actuate.
3. Gate Sticking.
a. Check plunger to target alignment in position test.
b. Shuttle bad.
c. Bent pins.
d. Check gear box \& follower.
4. Possible delivery cup assembly position alignment problem
a. Plunger should hit approximately $1 / 4^{\prime \prime}$ from top edge of target.
i. Adjust shelf offset see programming "Test Vend/Position Test".
b. Perform vend test on selections.
i. Only occurs on one column.
5. Defective target.
6. Defective gear box.
7. Defective follower.
ii. Occurs on entire shelf.
8. Shelf not secured on supports.
9. Position alignment.
iii. Occurs on same column, multiple shelves (A2, B2, C2, D2, E2).
10. Shelf not secured on supports.
11. Position alignment.
12. Plunger did not cycle fully.
a. Replace delivery cup assembly.
b. Replace control board.
ii. Gate did actuate
13. Product and gate mismatch.
14. Possible delivery cup assembly position alignment problem
a. Plunger should hit approximately $1 / 4^{\prime \prime}$ from top edge of target.
i. Adjust position alignment see programming "Test Vend/Position Test".
b. Perform vend test on selections.
i. Only occurs on one column.
15. Defective target.
16. Defective gear box.
17. Defective follower.
18. Dirty / worn tray slide with pusher.
a. Check slide with pusher.
19. Delivery Cup Assembly Plunger Issues.
a. Plunger jam/dry vend.
i. Syrup/dirt causing plunger to stick.
ii. Replace delivery cup assembly.
iii. Replace control board.
20. Software did not attempt to vend
a. Check error list. Does error list show "VEND ERR", with selection included in vend error list when pressing "A"?
b. A previous vend operation or vend test failed.
21. Software has selection identified as "sold out".
22. Selection is placed under SETUP MODE, HEALTH GUARD.
23. Selection is placed under SERVICE MODE, SET COOL DOWN function.
24. Selection has been disabled through SERVICE MODE, ENABLE ITEM function.
b. Plunger Hits Chassis.
i. Check tray is level and secured to tray supports.
ii. Check harness connections.
iii. Check X motor (bottom right).
iv. Check current software is being used $804,924,080.01$.
c. Plunger Stays Out.
i. Check for syrup or dirt build up.
ii. Check Harness connections.
iii. Check current software is being used $804,924,080.01$.
25. Delivery Cup Assembly Will Not Go Home.
a. Is there a "Vend Error" on the display?
i. If yes check the " $Y$ " (lower) and "X" (top far left) home switches.
26. In Test Vend/Position Test with the top door switch pulled out:
a. At the home position the "Y" (lower) home switch will light a green LED on the control board.
b. At the home position the " $X$ " (top far left) home switch will light an amber LED on the control board.
i. Adjust the $X$ drive belt at the bottom left belt clamp.
b. Check dynamic tensioner.
i. On rear belt it should be 6 " from the bottom.
ii. If one is installed on the front belt it should be 6 " from the top.
27. Elevator will not move vertically.
a. Perform TEST VEND/POSITION TEST in TEST MENU to test movement.
b. Check top door switch.
i. Is it functioning.
ii. Is it being made when door is closed.
c. Check the Delivery Cup Plunger \& Plunger Home Switch.
i. If plunger arm is stuck out it will shut down XY delivery system.
ii. If plunger arm home switch fails it will shut down XY delivery system.
d. Check the 10 pin harness connector to the " $Y$ " motor.
e. Check rollers.
f. Check harness and motor.
g. Replace control board.
28. Elevator will not move horizontally.
a. Perform TEST VEND/POSITION TEST in TEST MENU to test movement.
b. Check top door switch
i. Is it functioning.
ii. Is it being made when door is shut.
c. Check the lower and top far left home switches.
i. In Test Vend/Position Test with the top door switch pulled out:
29. At the home position the "Y" (lower) home switch will light a green LED on the control board.
30. At the home position the " $X$ " (top far left) home switch will light an amber LED on the control board.
a. Adjust the $X$ drive belt.
d. Check the Delivery Cup Plunger \& Plunger Home Switch
i. If plunger arm is stuck out it will shut down XY del.ivery system.
ii. If plunger arm home switch fails it will shut down XY delivery system.
e. Check rollers.
f. Check harness and motor.
g. Replace control board.
31. Product Will Not Load From Delivery Cup Assembly To Port Assembly.
a. Perform TEST VEND/POSITION TEST in TEST MENU to test movement.
b. Check current software is being used $804,924,080.01$.
c. Check belt tension.
d. Check Service Wall Port Door Assembly is securely installed.
32. Port Assembly On Service Door Will Not Open.
a. Perform TEST VEND/POSITION TEST in TEST MENU to test movement.
i. Port open will light the Amber LED on control board
ii. Port closed will light the Green LED on control board
b. Check fuse 1 by door switch in service area.
c. Check for syrup or dirt build up.
d. Replace port assembly.
e. Check harness and motor.
f. Replace control board.
33. Double Vend From Gate
a. Is correct gate assembly used in early models.
i. Small diameter cans may only be vended from tray A in early models.
ii. Large diameter packages may not be vended from tray A in early models.
b. Too many packages loaded in column.
34. Package Not Sliding On Slide Assembly.
a. Vender not level.
b. Slide not installed correctly.
c. Slide dirty. Clean and apply Armoral or Food Grade Silicone.
35. Delivery Cup Assembly Caught On Tray
a. Check vender is level.
b. Check rollers.









DELIVERY PORT DOOR WORKS IN FACTORY DIAGNOSTICS BUT NOT IN SALES MODE

Close door and do a test vend. Does it work?

```
YES
NO
NO
Check, repair, and replace door switch components: mounting bracket, strike plate, switch. and harness.
\begin{tabular}{|l|}
\hline Check, repair, and \\
replace door switch \\
components: mounting \\
bracket, strike plate, \\
switch. and harness. \\
\hline
\end{tabular}

Open service door. Pull top door switch out and do a test vend. Does it work? YES NO

\section*{PORT DOOR TEST SWITCH CODES}

ABCD
Position A = Open switch (yellow LED on control board)
Position B = Close switch (Green LED on control board)
Position \(\mathrm{C}=\) Vend sensor (on/off)
Position \(\mathrm{D}=\) Vend detect (Red LED on if it sees something in port - only if "C" is 1 [vend sensor on])

COIN ACCEPTANCE ISSUES
\begin{tabular}{|l|ll|ll|}
\hline \multicolumn{1}{|c|}{ PROBLEM } & & \multicolumn{1}{c|}{ CAUSE } & \multicolumn{1}{c|}{ FIX } \\
\hline Coins Returned to Customer & 1. & Coin Jam in Mech & 1. & Clear Jam and Test \\
With No Credit Issued & 2. & Flight Deck Dirty & 2. & Clean Flight Deck \\
& 3. & No Power to Mech & 3. & Check Harness, Changer to \\
& 4. & Coin Return Lever & VCU \\
& & Activated & 4. & Adjust Coin Return Lever \\
& 5. & Vender in Test Mode & 5. Close Service Door \\
& 6. & Not Available Time Set & 6. & Disable Not Available Time \\
& 7. & Defective Coin Mech & 7. & Replace Mech \\
\hline Will Not Payback Coins & 1. & No Power to Mech & 1. Check / Replace MDB Harness \\
& 2. & No Coins in Tubes & 2. & Fill Coin Tubes with Coins \\
& 3. & Tubes Programmed & 3. Reprogram per Manufacturer \\
& & Incorrectly (4 Tube Mech) & Recommendation \\
& 4. & Defective Coin Mech & 4. Replace Coin Mech \\
\hline
\end{tabular}

DOLLAR BILL ACCEPTANCE ISSUES
\begin{tabular}{|l|l|l|}
\hline \multicolumn{1}{|c|}{ PROBLEM } & \multicolumn{1}{c|}{ CAUSE } & \multicolumn{1}{c|}{ FIX } \\
\hline Bill Validator will not run. & Prices / tube cash conditions. & Check Mech Tubes. \\
\hline Takes Bill in Then Rejects it & Max Price Not Yet Reached & Check Validator or Replace \\
\hline Stacks Bill While in Escrow Mode & Cox Erinnication Error with Bill \\
\hline Bill Error Listed in Test Mode & \begin{tabular}{l} 
Commatidar. \\
Vall Validator Reported Error. \\
Bill
\end{tabular} & \\
\hline Takes Bill, Gives No Credit & Board, Harness, Validator & \begin{tabular}{l} 
Check or Replace Validator \\
Harness, Replace Board
\end{tabular} \\
\hline
\end{tabular}

CONTROL BOARD (VCU)
\begin{tabular}{|l|l|l|}
\hline \multicolumn{1}{|c|}{ PROBLEM } & \multicolumn{1}{c|}{ CAUSE } & \multicolumn{1}{c|}{ FIX } \\
\hline No Power to Controller. & 1. AC Box & 1. Replace AC box. \\
\hline ??????? Showing on Display & \begin{tabular}{l} 
1. Incorrect Input to Controller \\
2. Low or Missing 24 Volts
\end{tabular} & \\
\hline \begin{tabular}{l} 
Out of Order or other error codes \\
showing on display
\end{tabular} & RAM Error & \begin{tabular}{l} 
Refer to Programming Section on \\
page \#\# for specific error codes and \\
cures.
\end{tabular} \\
\hline Temp out of Service & No Vendable Selections & \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline
\end{tabular}

These charts are intended as a guide to isolate and correct most problems you might encounter. Should your machine show 'OUT OF SERVICE", go in the TEST MODE and press "B" to list errors.

ALL COINS ARE REJECTED


\section*{ALL BILLS ARE REJECTED}


\section*{INCORRECT CHANGE DISPENSED}


\section*{SELECTION WILL NOT VEND}


\section*{ICE / FROST ON EVAPORATOR}


CONDENSATE ON OUTSIDE OF PRODUCT DOOR


COMPRESSOR WILL NOT STOP



Troubleshooting Tip: Use a short 15 Amp extension cord and plug the compressor directly into the wall outlet. This will bypass the AC distribution box.
Note: For Testing Purposes Only.

\section*{MACHINE NOT COOLING}


Bev Max 2 Domestic Block Diagram


Bev Max 2 Export Block Diagram


Bev Max 2 Cabinet Diagram (Domestic \& Export)


Bev IVax 2 Cabinet Diagram (Domestic \(\boldsymbol{\&}\) Export)


Bev Max 2 Door Diagram (Domestic \& Export)


Bev Max 2 Domestic Power \& Lighting Diagram


Bev Max 2 Export Power \& Lighting Diagram



Bev Max 2 Compressor Parts Diagram

\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|c|}{ AC TEST VOLTAGES } \\
\hline \multicolumn{3}{|c|}{ Between Pins } & \begin{tabular}{c} 
Domestic \\
Reading
\end{tabular} \\
\hline 1 & 2 & \begin{tabular}{c} 
Export \\
Reading
\end{tabular} \\
\hline 1 & 3 & 12 VAC & 24 VAC \\
\hline 2 & 3 & 12 VAC & 12 VAC \\
\hline 4 & 9 & 24 VAC & 24 VAC \\
\hline 5 & 7 & 115 VAC & 220 VAC \\
\hline 6 & 8 & 115 VAC & 220 VAC \\
\hline
\end{tabular}

AC DISTRIBUTION BOX, J2 VOLTAGES

\section*{PARTS LIST}
PARTS LIST AND DIAGRAMS ..... 56-84
Machine Front View ..... \(.57-58\)
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Electronics ..... 77
Harnesses ..... \(.78-79\)
Labels / Decals / Misc. ..... 80
Screws \& Nuts ..... 81-82
Washers, Bolts, \& Misc. Hardware .....  \(83-85\)

\section*{MACHINE FRONT VIEW}


\section*{MACHINE FRONT VIEW}
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & Door Assembly, Glass & 800,102,53x.x1 \\
\hline 2 & Gasket & TBD \\
\hline 3 & Top Hinge Glass Door & 801,306,49x.x1 \\
\hline 4A & Top Hinge Service Door (All) & W334 \\
\hline 4B & Carriage Bolt, 1/4-20 X 2.5" & 900,202,20x.x1 \\
\hline 4C & Hex Nut, 1/4-20 & 900,800,67x.x1 \\
\hline 5 & Door Switch \& Door Stop Bracket (prior to 8487 shown) RB & \\
\hline & Door Switch \& Door Stop Bracket (8487 \& higher) & 647,000,54x.x3 \\
\hline 6 & Latch, 2-Point Lock & 801,305,58x.x1 \\
\hline 7 & Anti Vandal Sleeve Bottom Service Door & 800,902,68x.x1 \\
\hline 8 & Leg Assembly, Steel, Formed & 801,305,65x.x1 \\
\hline 9 & Leg Leveler, 5/8 & 900,502,49x.x1 \\
\hline 10 & Bottom Hinge, Service Door & 800,503,33x.x1 \\
\hline 11 & Shipping Boards & 805,410,94x.x1 \\
\hline 12 & Bottom Skirt & TBD \\
\hline 13 & Thermometer & 801,401,55x.x1 \\
\hline 14 & Wear Strip Door Decal & 803,878,37x.x1 \\
\hline 15 & Glass Door Bottom Hinge & 801,307,75x.x1 \\
\hline & & \\
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\hline & \begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
TBD = To be determined
\end{tabular} & \\
\hline
\end{tabular}


CABINET DETAIL PRODUCT AREA
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & Cabinet Assembly & 647,060,00x.x3 \\
\hline \multirow[t]{2}{*}{2A} & Left Tray, Bev-Max 2 Mount Bracket & 647,070,05x.x3 \\
\hline & Left Tray, Bev-Max 2 Rail & 647,070,08x.x3 \\
\hline \multirow[t]{2}{*}{2B} & Right Tray, Bev-Max 2 Mount Bracket & 647,070,04x.x3 \\
\hline & Right Tray, Bev-Max 2 Rail & 647,070,07x.x3 \\
\hline \multirow[t]{2}{*}{3} & Rear Tray Support Bar, Bev-Max 2 & 647,070,06x.x3 \\
\hline & Rear Tray Mount Bracket & 647,070,03x.x3 \\
\hline 4 & Ingress Guard (Service Item) & 647,000,02x.x3 \\
\hline 5 & Security Angle, Left & 647,060,07x.x3 \\
\hline 6 & Security Angle, Top & 647,060,06x.x3 \\
\hline 7 & Security Angle, Right & 622,020,12x.x3 \\
\hline 8 & Service Door Security Angle (refer to Service Door Page) & 647,050,04x.x3 \\
\hline 9 & Brace, Rear Base Plate & 635,020,09x.x3 \\
\hline 10 & Tray Support Screw \#8-18x1/2 Phil Pan & 900,301,50x.x1 \\
\hline \multicolumn{3}{|l|}{11} \\
\hline 12A & Lamp Holder, T8 Bi-Pin Leviton 23652 (Vertical) & 804,920,62x.x1 \\
\hline 12B & Lamp Holder, T8 Bi-Pin Leviton 23653 (Horizontal) & TBD \\
\hline 13 & Assembly, Ballast 120V/60Hz Electronic (Advance) T8 & 804,400,61x.x1 \\
\hline 14 & Lamp, Fluorescent T8 2’ OS\#21718 & 804,700,77x.x1 \\
\hline 15 & Lamp Cover, Top Horizontal & 801,819,89x.x1 \\
\hline \multirow[t]{2}{*}{16} & Evaporator Drain Pan Assembly & 622,041,20x.x3 \\
\hline & Evaporator Drain Pan & 801,813,48x.x1 \\
\hline 17 & Drain Tube & 801,817,41x.x1 \\
\hline 18 & Evaporator Fan Assembly (120V/60Hz, 9W) & 627,052,40x.x3 \\
\hline 19 & Evaporator Fan, 58mm ECM & 804,501,28x.x1 \\
\hline 20 & Evaporator Fan Harness & 804,922,37x.x1 \\
\hline 21 & Evaporator Fan Shroud & 627,050,45x.x3 \\
\hline 22A & Choke & 804,920,41x.x1 \\
\hline 22B & Harness, Fan Choke Extension & 804,922,77x.x1 \\
\hline 23 & Louver Panel & 647,070,09x.x3 \\
\hline 24 & Evaporator Bottom Access Panel & 627,051,30x.x3 \\
\hline 25 & Weld Assembly Glass Front Top Hinge & 801,306,49x.x1 \\
\hline 26 & Assembly Discharge Frame & 801,819,94x.x1 \\
\hline 27 & Discharge Back Frame & 801,819,95x.x1 \\
\hline 28 & Discharge Frame & 801,819,96x.x1 \\
\hline 29 & Discharge Door & 801,819,97x.x1 \\
\hline 30 & Discharge Door Magnet & 804,101,05x.x1 \\
\hline 31 & Shelf Panel Assembly & 647,060,40x.x3 \\
\hline 32 & Foamed Vertical Panel Assembly & 647,060,10x.x3 \\
\hline & \begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA \(=\) Not applicable \\
TBD \(=\) To be determined
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CABINET DETAIL SERVICE DOOR AREA


4


CABINET DETAIL SERVICE DOOR AREA
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & Coin Mech Housing Assembly & 647,001,00x.x3 \\
\hline 2 & Hopper Assembly & 647,000,10x.x3 \\
\hline 3 & Coin Return Bracket & 801,307,13x.x1 \\
\hline 4 & Assembly, Lever Mech Arm & 647,000,60x.x3 \\
\hline 5 & Assembly, Lever Button Rod & 647,000,50x.x3 \\
\hline 6 & Magnet Strip 6" & 804,101,24x.x1 \\
\hline 7 & Coin Return Slide Bracket & 801,307,46x.x1 \\
\hline 8 & Extension Spring & 801,701,55x.x1 \\
\hline 9 & Mech Door Hinge Assembly & 647,000,20x.x3 \\
\hline 10 & Flat Mount Cable & D588 \\
\hline 11 & Fuse for Motors 3 Amp & 804,801,16x.x1 \\
\hline 12 & Coin Chute Mount & 647,000,29x.x3 \\
\hline 13 & Mech Assembly Cover Hinge & 647,000,40x.x3 \\
\hline 14 & Cash Box Cover & 647,000,19x.x3 \\
\hline 15 & Coin Box Chute & 647,000,18x.x3 \\
\hline 16 & Cash Box Assembly & 647,000,80x.x3 \\
\hline 17 & Locking Cash Box Kit & 432,011,50x.x4 \\
\hline 18 & Door Switch \& Door Stop Bracket & 647,000,42x.x3 \\
\hline 19 & Door Switch & 804,101,19x.x1 \\
\hline 20 & Switch Power Interrupt & 804,100,59x.x1 \\
\hline 21 & DEX Harness Bracket & 627,010,02x.x3 \\
\hline 22 & Assembly Coin Chute & 647,001,30x.x3 \\
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Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
TBD \(=\) To be determined
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\section*{XY MOTOR PICKER UNIT}


\section*{X/Y MOTOR PICKER UNIT}
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & XY Delivery System & 647,071,60x.x3 \\
\hline 2 & Assembly Cover Y Belt & 647,070,28x.x3 \\
\hline 3 & Y Motor Cover Top & 647,070,31x.x3 \\
\hline 4 & X Motor Cover Bottom & 647,070,32x.x3 \\
\hline 5 & X Bottom Belt Guard Bracket & 647,000,12x.x3 \\
\hline 6 & Harness, X Motor & 804,924,24x.x1 \\
\hline 7 & X Top Carriage Assembly & 647,073,50x.x3 \\
\hline 8 & Assembly Delivery Cup (Picker Cup Assy) & 647,075,00x.x3 \\
\hline 9 & Delivery Cup Board (Picker Cup Board) & 804,923,53x.x1 \\
\hline 10 & Cup Base Board & 804,923,52x.x1 \\
\hline 11 & Cup/Port Motor Assembly & 804,501,39x.x1 \\
\hline 12 & Cup Motor Cam & 801,201,81x.x1 \\
\hline 13 & Micro Switch with Straight Arm (Picker Home Switch) & 804,101,23x.x1 \\
\hline & Micro Switch with Straight Arm (Cup Home Switch - Y) & 804,101,22x.x1 \\
\hline & Micro Switch with Bent Arm (Picker Out Switch) & 804,101,26x.x1 \\
\hline 14 & Harness, XY Chain & 804,924,26x.x1 \\
\hline 15 & Plunger Cup Bumper & 803,601,23x.x1 \\
\hline 16 & Base Cup Cover & 801,820,11x.x1 \\
\hline 17 & Base Cup & 801,820,09x.x1 \\
\hline 18 & Delivery Cup Sleeve & 801,820,08x.x1 \\
\hline 19 & Delivery Cup Body & 801,820,07x.x1 \\
\hline 20 & Pin Cup Hinge & 801,201,87x.x1 \\
\hline 21 & Assembly Plunger & 647,051,80x.x3 \\
\hline 22 & Harness, Y E-Chain & 804,923,73x.x1 \\
\hline 23 & XY Belt Tensioner Assembly & 801,307,22x.x1 \\
\hline 24 & Motor Cam Cover & 647,070,35x.x3 \\
\hline 25 & Motor XY System & 804,501,41x.x1 \\
\hline 26 & Idler Pulley and Bracket Assembly & 801,307,17x.x1 \\
\hline 27 & X Top Idler Pulley Assembly & 801,307,45x.x1 \\
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Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable
TBD \(=\) To be determined

SERVICE DOOR (OUTSIDE)


SERVICE DOOR (OUTSIDE)
\begin{tabular}{|c|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 & DN5800 \\
\hline & & Prior to run 8483 & Run 8483 \& higher \\
\hline 1 & Service Door Assembly, Electronic Lock, Gray & <647,050,000.33 & 647,050,000.33 \\
\hline & Service Door Assembly, Electronic Lock, Card Reader Gray & NA & 647,051,90x.x3 \\
\hline & Service Door Assembly, Electronic Lock, Black & <647,051,600.33 & 647,051,600.33 \\
\hline & Service Door Assembly, Electronic Lock, Card Reader Black & NA & 647,052,00x.x3 \\
\hline 2 & Weld Assembly Service Door & 647,050,20x.x3 & 647,051,70x.x3 \\
\hline 3 & Assembly Bezel Top, Gray & 801,820,45x.x1 & 801,821,06X.X1 \\
\hline & Assembly Bezel Top, Gray Card Reader & NA & 801,821,14x.x1 \\
\hline & Assembly Bezel Top, Black & 801,820,92x.x1 & 801,821,07x.x1 \\
\hline & Assembly Bezel Top, Black Card Reader & NA & 801,821,15x.x1 \\
\hline 4 & Bezel Center, Gray & 801,820,15x.x1 & 801,821,08x.x1 \\
\hline & Bezel Center, Black & 801,820,91x.x1 & 801,821,23x.x1 \\
\hline 5 & Bezel Bottom Electronic Lock, Gray & 801,820,16x.x1 & 801,821,10x.x1 \\
\hline & Bezel Bottom T Handle, Gray & 801,820,94x.x1 & 801,821,12x.x1 \\
\hline & Bezel Bottom Electronic Lock, B lack & 801,820,93x.x1 & 801,821,11x.x1 \\
\hline & Bezel Bottom T Handle, Black & 801,820,17x.x1 & 801,821,13x.x1 \\
\hline 6 & Coin Return Button Bracket & 647,050,07x.x3 & Same \\
\hline 7 & Coin Return Button Assembly & 801,820,53x.x1 & Same \\
\hline 8 & Coin Return Pusher Rod & 800,503,67x.x1 & Same \\
\hline & Coin return Button & 801,821,28x.x1 & Same \\
\hline 9 & Compress Spring & 801,701,54x.x1 & Same \\
\hline 21 & Overlay, Keypad - Pepsi (see page 80 for other Overlay's) & 804,101,25x.x1 & Same \\
\hline 22 & Keypad, Membrane Switch Assembly & 804,101,21x.x1 & Same \\
\hline 23 & Assembly Port & 647,050,60x.x3 & 647,051,10x.x3 \\
\hline 24 & Assembly LED and Switch, Port & 804,924,49x.x1 & Same \\
\hline 25 & Port Cam & 801,821,02x.x1 & Same \\
\hline 26 & Bracket and Motor Assembly & 647,050,30x.x3 & Same \\
\hline 27 & Motor Mount Product Door Bracket & 647,050,05x.x3 & Same \\
\hline 28 & Cup/Port Motor & 804,501,39x.x1 & Same \\
\hline 29 & Vend Sensor Plate - 801,307,82x.x1? & 647,050,14x.x3 & Same \\
\hline 30 & Port Discharge Pad & 803,601,22x.x1 & Same \\
\hline 31 & Vend Sensor & 804,801,06x.x1 & 804,924,63x.x1 \\
\hline 32 & Motor Port Cover & 801,820,68x.x1 & Same \\
\hline 33 & Port Handoff Slide & 801,820,04x.x1 & Same \\
\hline 34 & PCA IR Sensor Lock & 804,923,97x.x1 & Same \\
\hline 35 & Assembly Electronic Lock Gray & 647,001,50x.x3 & Same \\
\hline & Assembly T Handle Gray & 647,002,30x.x3 & Same \\
\hline & Assembly Electronic Lock Black & 647,002,20x.x3 & Same \\
\hline & Assembly T Handle Black & 647,001,60x.x3 & Same \\
\hline 36 & Harness, Electronic Lock & 804,923,41x.x1 & Same \\
\hline 37 & Coin Insert Chute & 647,050,09x.x3 & Same \\
\hline 38 & Coin Return Cup Assembly & 801,820,38x.x1 & 801,821,29x.x1 \\
\hline 39 & Coin Cup Door & 801,819,35x.x1 & 801,821,33x.x1 \\
\hline 40 & Coin Cup & 801,820,39x.x1 & 801,821,30x.x1 \\
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\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable

SERVICE DOOR (INSIDE)


\section*{SERVICE DOOR (INSIDE)}
\begin{tabular}{|c|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 & DN5800 \\
\hline & & Prior to run 8483 & Run 8483 \& higher \\
\hline 1 & Display Lens & 801,814,21x.x1 & Same \\
\hline 2 & Display Spacer - standoff & TBD & Same \\
\hline 3 & Assembly Display (Noritake) & 804,923,86x.x1 & Same \\
\hline 4 & Cover, Display & TBD & Same \\
\hline 5 & Door Bundle Harness & 804,924,25x.x1 & Same \\
\hline 6 & Coin Return Cup Assembly & 801,820,38x.x1 & 801,821,29x.x1 \\
\hline 7 & Change Cup Door, prior to run 8483 & 801,819,35x.x1 & 801,821,33x.x1 \\
\hline 8 & Validator Filler Plate & 647,050,18x.x3 & Same \\
\hline 9 & Gasket, Validator Filler Plate & TBD & Same \\
\hline 10 & Insert Assembly Service Door Spacer, Lockbar & 801,817,47x.x1 & Same \\
\hline 11 & Assembly, Bracket Coin Mech Panel & 647,050,40x.x3 & Same \\
\hline 12 & Latch - 2 Point Lock & 801,305,58x.x1 & Same \\
\hline 13 & Lock Bar & 647,050,02x.x3 & Same \\
\hline 14 & Washer, Flat . 191 ID . 50 OD (metal) & 900,701,10x.x1 & Same \\
\hline 15 & Washer, Flat . 260 ID x 687 OD (nylon) & 900,701,22x.x1 & Same \\
\hline 16 & Screw, Shoulder 10-32x1/4 & 900,202,03x.x1 & Same \\
\hline 17 & Protective Strip, Plastic (2 piece) & 801,810,07x.x1 & Same \\
\hline 18 & Enclosure & 801,819,99x.x1 & Same \\
\hline 19 & DEX Harness Kit & 627,020,30x.x4 & Same \\
\hline 20 & DEX Harness & 804,913,97x.x1 & Same \\
\hline 21 & DEX Harness Bracket & 627,010,02x.x3 & Same \\
\hline 22 & Hex Nut for DEX Harness & 800,801,29x.x1 & Same \\
\hline 23 & Service Door Security Angle & 647,050,04x.x3 & Same \\
\hline 24 & Spacer Lock Bar & 801,817,47x.x1 & Same \\
\hline 25 & Door Display Security Plate & 647,050,17x.x3 & Same \\
\hline 26 & Coin Insert Assembly & 647,050,50x.x3 & Same \\
\hline 27 & Keypad Cable Clamp Kit & D114 & Same \\
\hline 28 & Keypad Cable Clamp & D588 & Same \\
\hline 29 & Coin Insert Assembly & 647,050,50x.x3 & Same \\
\hline 30 & T Handle Assembly, Black & <647,001,600.23 & 647,001,600.23 \\
\hline & T Handle Assembly, Gray & <647,002,300.23 & 647,002,300.23 \\
\hline 31 & T Handle Assembly & 801,521,88x.x1 & Same \\
\hline 32 & Hex Washer \#29-34, T Handle & 901,503,08x.x1 & Same \\
\hline 33 & Electronic Lock Assembly, Black & 647,002,20x.x3 & Same \\
\hline & Electronic Lock Assembly, Gray & 647,001,50x.x3 & Same \\
\hline 34 & E Lock Assembly & 805,202,61x.x1 & Same \\
\hline 35 & E Lock Harness & 804,923,41x.x1 & Same \\
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\end{tabular}

Part numbers \& descriptions are subject to change
with out notice.
NA = Not applicable
TBD \(=\) To be determined

GATE TRAY DETAIL


GATE TRAY DETAIL
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & Tray Assy., 9 Column & 647,070,30x.x3 \\
\hline 2 & Chassis Tray, Tall Gate & 647,071,50x.x3 \\
\hline 3 & Double Gate Assembly & 801,820,18x.x1 \\
\hline 4 & Double Gate Assembly Right & 801,820,29x.x1 \\
\hline 5 & Double Gate Assembly Left & 801,820,31x.x1 \\
\hline 6 & Spring Gear Box & 801,701,57x.x1 \\
\hline 7 & Gear Box Assembly & 801,820,62x.x1 \\
\hline 8 & Double Gate Drive Mech Target & Part of \#7 \\
\hline 9 & Double Gate Drive Mech Gear & 801,820,35x.x1 \\
\hline 10 & Double Gate Drive Mech Follower & Part of \#7 \\
\hline 11 & Tray Wire, Formed Domestic 9 Column & 801,402,77x.x1 \\
\hline 12 & Slide with Product Pusher Assembly & 801,820,96x.x1 \\
\hline 13 & Product Pusher Spring & 801,701,13x.x1 \\
\hline 14 & Screw, Hex Washer 4-24x3/4 (Gate assembly screw) & 800,303,64x.x1 \\
\hline 15 & 3/16" Socket, 1/4" Drive & 800,102,52x.x1 \\
\hline 16 & Stabilizer, Tray Slide & 801,904,67x.x1 \\
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Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable
TBD = To be determined

AC DISTRIBUTION BOX


\section*{AC DISTRIBUTION BOX}
\begin{tabular}{|c|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 & DN5800 \\
\hline & & Domestic & Export \\
\hline 1 & Assembly AC Distribution T8 Electronic Bev Max 2 & 647,070,00x.x3 & 647,075,10x.x3 \\
\hline 2 & Transformer, 120V / 24V, 60 Hz , 8A Domestic & 804,915,54x.x1 & NA \\
\hline & Transformer, Export & NA & 804,914,18x.x1 \\
\hline 3 & Fuse Label, 10 Amp & 803,876,95x.x1 & NA \\
\hline & Fuse Label, 2 Amp & 803,876,96x.x1 & NA \\
\hline & Fuse Label Export & NA & 803,880,4x.x1 \\
\hline 4 & Fuse, 10 Amp , 32V SloBlo & W659 & Same \\
\hline 5 & Fuse Holder, Panel Mounted, Quick Disconnect 5X20mm & 804,914,88x.x1 & Same \\
\hline 6 & Outlet, 15 Amp , Grounded & W662 & TBD \\
\hline 7 & Fuse, 1.25 Amp, 250V, SloBlo 5 X 20mm & 804,919,56x.x1 & Same \\
\hline 8 & Power Inlet Plug & 804,913,62x.x1 & Same \\
\hline 9 & Harness, AC Power \& Choke Input & 804,922,92x.x1 & 804,924,42x.x1 \\
\hline 10 & Harness, Power Distribution & 804,922,93x.x1 & TBD \\
\hline 11 & Harness, Choke Output & 804,920,49x.x1 & NA \\
\hline 12 & Harness, MDB Interior Power T8/Electronic GFV & 804,923,38x.x1 & NA \\
\hline 13 & Harness, Main Power & 622,060,60x.x3 & NA \\
\hline 14 & Choke & 804,920,42x.x1 & NA \\
\hline 15 & Relay - Fan, Compressor, and Light & 804,200,26x.x1 & Same \\
\hline 16 & Rocker Switch, Hi In rush & 804,915,15x.x1 & 804,101,12x.x1 \\
\hline 17 & Harness, Relay & 804,922,94x.x1 & 804,924,44x.x1 \\
\hline 18 & Label Power Disconnect & 803,876,94x.x1 & 803,880,43x.x1 \\
\hline 19 & Circuit Board Assembly & TBD & 804,922,58x.x1 \\
\hline 20 & 3 Position Switch & NA & 804,916,93x.x1 \\
\hline 21 & Filter EMI IEC Inlet 10 Amp & NA & 804,801,14x.x1 \\
\hline 22 & Harness, AC Out Power Box & NA & 804,924,43x.x1 \\
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Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable
TBD \(=\) To be determined

\section*{LIGHTING}
\begin{tabular}{|c|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 & DN5800 \\
\hline & & Domestic & Export \\
\hline 1 & Ballast Assembly, T 8 Electronic 110 Volt/60 Hertz (Advance) & 804,400,61x.x1 & NA \\
\hline 2 & Ballast Assembly, 220 Volt/50 Hertz & NA & 804,401,11x.x1 \\
\hline \multirow[t]{2}{*}{3} & Lens, Fluorescent Lamp Assembly (28.35") & 801,603,05x.x1 & Same \\
\hline & Lens, Fluorescent Lamp Assembly (23.938") & 801,603,06x.x1 & Same \\
\hline \multirow[t]{2}{*}{4} & Fluorescent Lamp T8, 2’ (OS \#21718) & 804,700,77x.x1 & NA \\
\hline & Fluorescent Lamp T8, 2' (OS \#23041) & NA & 804,701,03x.x1 \\
\hline \multirow[t]{2}{*}{5} & Light Harness, 120 Volt - 3 Lamp T8 & 804,923,39x.x1 & 804,924,52x.x1 \\
\hline & Light Harness, 120 Volt - 1 Lamp T8 (Upper Light Assy.) & 804,923,63x.x1 & 804,824,51x.x1 \\
\hline \multirow[t]{2}{*}{6A} & Lamp Holder, T8 Bi Pin - Leviton 23652 (Vertical) & 804,920,62x.x1 & Same \\
\hline & Lamp Holder, T8 Bi Pin - Leviton 23653 (Horizontal) & TBD & Same \\
\hline 7 & Light Assembly T8 Domestic & 647,060,60x.x3 & 647,060,28x.x3 \\
\hline 8 & Assembly Lamp Channel 2" & 647,060,20x.x3 & 647,060,29x.x3 \\
\hline 9 & Lamp Holder Bracket & 647,060,05x.x3 & Same \\
\hline 10 & Upper Light Assembly & 647,000,00x.x3 & 647,002,40x.x3 \\
\hline 11 & End Cap Lamp & 801,904,62x.x1 & Same \\
\hline 12 & Lamp Cover (22.6") & 801,819,89x.x1 & Same \\
\hline 13 & Choke & 804,920,41x.x1 & TBD \\
\hline 14 & Choke Cover & 801,821,68x.x1 & TBD \\
\hline 15 & Choke Harness & 804,924,46x.x1 & TBD \\
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\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable
TBD = To be determined


REFRIGERATION UNIT
(Bev Max 2 FIN \& TUBE CONDENSER)


REFRIGERATION UNIT
(Bev Max 2 - FIN \& TUBE CONDENSER)
\begin{tabular}{|c|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 & DN5800 \\
\hline & & Domestic & Export \\
\hline \multirow[t]{2}{*}{1A} & Refrigeration Unit EM2001 C-A Kit, 115V/60Hz Domestic Kit & 627,012,10x.x3 & NA \\
\hline & Refrigeration Unit EM2021 C-A Kit, 220V/50Hz Export Kit & NA & 635,040,20x.x4 \\
\hline \multirow[t]{2}{*}{1B} & Refrigeration Unit EM2001 C-A, 115V/60Hz Domestic & 802,502,47x.x1 & NA \\
\hline & Refrigeration Unit EM2021 C-A, 220V/50Hz Export & NA & 635,040,10x.x4 \\
\hline \multirow[t]{2}{*}{2} & Compressor Assy. 115V/60Hz Domestic & TBD & NA \\
\hline & Compressor Assy. 220V/50Hz Export & NA & 626,041,30x.x3 \\
\hline 2A & Compressor, Domestic & TBD & NA \\
\hline 2B & Compressor, Export & TBD & 802,502,25x.x1 \\
\hline 3A & Overload, 115V Domestic & TBD & NA \\
\hline 3B & Overload, 220V Export & TBD & 802,502,26x.x1 \\
\hline 4A & Relay, 110V -Domestic & TBD & NA \\
\hline 4B & Relay, 220V -Export & TBD & 802,502,27x.x1 \\
\hline 5 & Cover, Overload/Relay Tecumseh & TBD & 802,502,01x.x1 \\
\hline 6A & Start Capacitor, 110V - Domestic & TBD & NA \\
\hline 6B & Start Capacitor, 250V/50Hz Export & TBD & 802,502,28x.x1 \\
\hline 7 & Start Capacitor, End Cap Bottom Hole & TBD & 802,501,18x.x1 \\
\hline 8 & Bracket, Capacitor Assembly & TBD & 802,501,87x.x1 \\
\hline 9A & Drain Pan, Condensate - Domestic & TBD & \\
\hline 9B & Drain Pan, Condensate - Export & TBD & \\
\hline 10A & Assembly Condenser Fan, 10" Domestic & TBD & NA \\
\hline 10B & Assembly Condenser Fan , 220V Export & TBD & 626,041,40x.x3 \\
\hline 11 A & Condenser Fan Motor, Domestic & TBD & NA \\
\hline 11B & Condenser Fan Motor, Export & TBD & 804,501,18x.x1 \\
\hline 12 & Silencer & TBD & 902,100,29x.x1 \\
\hline 13 & Fan Blade, Condenser & TBD & 801,305,67x.x1 \\
\hline 14 & Speed Nut & TBD & 900,800,85x.x1 \\
\hline 15 & Condenser & TBD & 802,600,64x.x1 \\
\hline 16 & Dryer & TBD & 802,401,30x.x1 \\
\hline 17 & Grommet Compressor & TBD & 902,000,57x.x1 \\
\hline 18 & Evaporator & TBD & 802,600,63x.x1 \\
\hline 19 & Accumulator & TBD & 802,401,35x.x1 \\
\hline & \begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
TBD \(=\) To be determined
\end{tabular} & & \\
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\end{tabular}

\section*{REFRIGERATION UNIT}
(Bev Max 2 - FIN \& TUBE CONDENSER)
\begin{tabular}{|c|c|c|c|}
\hline 20 & Temperature Control Clip & 800,902,63x.x1 & 800,902,63x.x \\
\hline 21 & Refrigeration Holding Bracket & 647,040,02x.x3 & 647,040,02x.x3 \\
\hline 22 & Temperature Sensor Control Board & 804,916,29x.x1 & 804,916,29x.x1 \\
\hline *23 & Assembly Evaporator Fan 115V Energy Star (5 blade) & 647,052,10x.x3 & NA \\
\hline & Assembly Evaporator Fan 115V Energy Star (7 blade) & 627,052,40x.x3 & NA \\
\hline & Assembly Evaporator Fan \(220 \mathrm{~V} / 50 \mathrm{~Hz}\) & NA & 622,043,00x.x3 \\
\hline **24 & Evaporator Fan, EBM (5 blade) 115V & 804,501,48x.x1 & NA \\
\hline & Evaporator Fan, 58 mm ECM (7 blade) 115 V & 804,501,28x.x1 & NA \\
\hline & Evaporator Fan, 220-230V/50Hz & NA & 804,501,11x.x1 \\
\hline 25 & Choke & 804,920,41x.x1 & NA \\
\hline \multicolumn{4}{|c|}{\begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
\(\mathrm{TBD}=\mathrm{To}\) be determined \\
**Important: An EBM fan will not fit in the ECM fan housing assy. \\
*The Evaporator Fan Assys. Are interchangeable in the vender.
\end{tabular}} \\
\hline
\end{tabular}

ELECTRONICS
\begin{tabular}{|c|l|c|c|}
\hline ITEM & \multicolumn{1}{|c|}{ PART DESCRIPTION } & DN5800 & DN5800 \\
\hline & & Domestic & Export \\
\hline 1 & Bev-Max 2 Control Board Assembly, New & \(647,061,40 x \cdot x 3\) & TBD \\
\hline & Bev-Max 2 Control Board Assembly, Reconditioned & \(647,061,50 x \cdot x 3\) & TBD \\
\hline 2 & Standoffs & \(801,903,80 x \cdot x 1\) & Same \\
\hline 3 & EPROM, Firmware Bev-Max 2 & \(804,924,08 x \cdot x 1\) & TBD \\
\hline 4 & Display Assembly & \(804,923,86 x \cdot x 11\) & Same \\
\hline 5 & Transformer & \(804,915,54 x \cdot x 11\) & \(804,914,18 x \cdot x 1\) \\
\hline 6 & Fuse, 3 Amp 5 X 20mm Sloblo & \(804,801,16 x \cdot x 1\) & Same \\
\hline 7 & Battery, 3 Volt Lithium & \(804,920,45 x \cdot x 1\) & Same \\
\hline 8 & Temp Sensor Cable & \(804,917,24 x \cdot x 1\) & Same \\
\hline 9 & Temp Sensor Control Board & \(804,916,29 x \cdot x 1\) & Same \\
\hline \(10 A\) & Choke, AC Distribution Box only & \(804,920,42 x \cdot x 1\) & NA \\
\hline \(10 B\) & Choke, Evaporator Fan Assembly \& Lighting & \(804,920,41 x \cdot x 1\) & Same \\
\hline 11 & Board Y Motor & \(804,923,54 x \cdot x 1\) & Same \\
\hline 12 & Health Timer Control Assembly & \(622,010,50 x \cdot x 4\) & Same \\
\hline 13 & Motor XY System & \(804,501,41 x \cdot x 1\) & Same \\
\hline 14 & LED \& Switch Port Assembly & \(804,924,49 x \cdot x 1\) & Same \\
\hline 15 & Control Board Cover & \(647,000,38 x \cdot x 3\) & Same \\
\hline 16 & Temp Control Clip & \(800,902,63 x \cdot x 1\) & Same \\
\hline & & & \\
\hline
\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable
\(\mathrm{TBD}=\) To be determined


\section*{HARNESSES}


\section*{HARNESSES}
\begin{tabular}{|c|c|c|c|c|}
\hline ITEM & \[
\begin{gathered}
\text { PART } \\
\text { DESCRIPTION }
\end{gathered}
\] & FROM/TO & DN5800 Domestic & DN5800 Export \\
\hline \multirow[t]{4}{*}{1} & Harness, Electronic Lock & 12 pin plug to E Lock board & 804,923,41x.x1 & Same \\
\hline & & 2 connectors to door switch & & \\
\hline & & 1 jack in top of port & & \\
\hline & & 2 pin cap to top port lock board & & \\
\hline 2 & Harness, Key Sensor & Phone jack to top port lock board & & \\
\hline \multirow[t]{7}{*}{3} & Harness, Door Bundle & 10 pin cap white J11 to 10 pin flat black Keypad & 804,924,25x.x1 & Same \\
\hline & & 7 pin cap black P6 to 6 pin flat white Display & & \\
\hline & & 6 pin plug white J16 to mech & & \\
\hline & & 8 pin cap black P11 to 4 pin cap black Cup Motor \& 4 pin plug white Cup & & \\
\hline & & 2 pin cap black P13 to 2 pin plug white Port Light & & \\
\hline & & 6 pin white cap MDB not used & & \\
\hline & & 2 pin white cap to 2 pin white plug ??? & & \\
\hline 4 & Harness, X Motor & 5 pin flat black P5 \& 2 pin flat black P9 to 6 pin flat white Motor & 804,924,24x.x1 & Same \\
\hline 5 & Harness, Relays & 10 pin flat black P7 to 4 pin white plug AC Distribution Box & 804,923,66x.x1 & Same \\
\hline 6 & Harness, AC Distribution Interior Power & 3 pin white plug P1 to 9 pin white cap AC Distribution Box, 2 pin white plug evaporator fan, 2 pin plug to lights, \& ground wire & 804,923,38x.x1 & Same \\
\hline 7 & Harness, Evaporator & 2 pin white plug to evaporator fan & 804,922,37x.x1 & Same \\
\hline 8 & Harness, Lighting 3 Lamp & 9 pin white plug to ballast, 2 pin white cap to 2 pin white plug from AC Distribution Box, 3 pin white plug to horizontal light & 804,923,39x.x1 & 804,924,52x.x1 \\
\hline 9 & Harness, Top Light 1
Lamp & 3 pin white cap from horizontal light to 3 pin white plug from lighting harness & 804,923,63x.x1 & 804,924,51x.x1 \\
\hline 10 & Harness, Y Motor & 5 pin flat black P8 to 2 pin flat black Y Motor \& Cup Motor, 5 pin flat black P4 to 6 pin white plug Y Motor Encoder, 9 pin flat black P3 to 10 pin flat black to Y Motor \& Cup signals, 2 pin white cap to 2 pin white plug at Y Motor & 804,923,73x.x1 & Same \\
\hline 11 & Harness, Door Switch & 6 pin flat black P10 to door switch & 804,923,85x.x1 & Same \\
\hline 12 & Harness, Temp Sensor & 6 pin plug J12 to Temp Sensor & 804,917,24x.x1 & Same \\
\hline 13 & Harness, Cup Bottom & 4 pin plug to bottom of Cup & 804,923,65x.x1 & Same \\
\hline 14 & Harness, Main Power & & 622,060,60x.x3 & NA \\
\hline 15 & Harness, AC Power In & & 804,922,92x.x1 & 804,924,42x.x1 \\
\hline 16 & Harness, DEX 15" & & 804,913,97x.x1 & Same \\
\hline 17 & Harness, Cup LED Jumper & & 804,924,48x.x1 & Same \\
\hline 18 & Harness, Cup to E-Chain & & 804,923,74x.x1 & Same \\
\hline 19 & Harness, Fan Choke Ext. & & 804,922,77x.x1 & NA \\
\hline 20 & Harness, Board to Y Motor & & 804,924,21x.x1 & Same \\
\hline 21 & Harness, X/Y Chain & & 804,924,26x.x1 & Same \\
\hline 22 & Harness, Lighting Choke & & 804,924,47x.x1 & NA \\
\hline 23 & Harness, Light Choke Ext. & & 804,924,46x.x1 & NA \\
\hline 24 & Harness, Interlock & & 804,924,29x.x1 & Same \\
\hline 25 & Harness, Power Dist. & & 804,922,93x.x1 & NA \\
\hline 26 & Harness, Choke Output & & 804,920,49x.x1 & NA \\
\hline 27 & Harness, Relay & & 804,922,94x.x1 & 804,924,44x.x1 \\
\hline & & & & \\
\hline & & & & \\
\hline & & \begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
TBD \(=\) To be determined
\end{tabular} & & \\
\hline
\end{tabular}

\section*{LABELS / DECALS / MISC.}
\begin{tabular}{|c|c|c|}
\hline ITEM & PART DESCRIPTION & DN5800 \\
\hline 1 & Vender Lag Bracket Kit & 627,020,60x.x4 \\
\hline 2 & DEX Kit - Includes bracket, 15" harness, \& hardware & 627,020,30x.x4 \\
\hline 3 & Thermometer & 801,401,55x.x1 \\
\hline 4 & Label Set, Price and Product & W485-2 thru 12 \\
\hline 5 & Label Set, Product Only (i.e. A1, A2, etc.) & 803,857,26x.x1 \\
\hline 6 & Label, Selection - Bev-Max 2 & 803,857,26x.x1 \\
\hline 7 & Label, Warning "DO NOT TILT" & 803,868,29x.x1 \\
\hline 8 & Label, Programming & TBD \\
\hline 9 & Label, Coin Mech & 803,853,25x.x1 \\
\hline 10 & Label, Coin Return Service Door Bezel & 803,857,25x.x1 \\
\hline 11 & Label, AC Distribution Box Power Disconnect & 803,876,94x.x1 \\
\hline 12 & Decal, Side Cabinet - Blue Cap & 803,872,61x.x1 \\
\hline & Decal, Side Cabinet - Gatorade & 803,881,91x.x1 \\
\hline & Decal, Side Cabinet - Aquafina & 803,874,34x.x1 \\
\hline 13 & Decal, Glass Door - Pepsi & 803,877,42x.x1 \\
\hline & Decal , Glass Door - Gatorade & 803,880,31x.x1 \\
\hline & Decal , Glass Door - Aquafina & 803,880,26x.x1 \\
\hline & Decal, Glass Door - 7 Up & 803,880,99x.x1 \\
\hline & Decal, Glass Door - Black & 803,881,86x.x1 \\
\hline & Decal, Glass Door - Neon Blue & 803,877,41x.x1 \\
\hline & Decal, Glass Door - Snapple & 803,879,96x.x1 \\
\hline 14 & Decal, Cup Base - Pepsi & 803,877,44x.x1 \\
\hline & Decal, Cup Base - Gatorade & 803,880,32x.x1 \\
\hline & Decal, Cup Base - Aquafina & 803,880,27x.x1 \\
\hline & Decal, Cup Base - 7 Up & 803,881,02x.x1 \\
\hline & Decal, Cup Base - Black & 803,881,87x.x1 \\
\hline & Decal, Cup Base - Neon Blue & 803,877,43x.x1 \\
\hline & Decal, Cup Base - Snapple & 803,879,95x.x1 \\
\hline 15 & Decal, Sleeve - Pepsi & 803,877,46x.x1 \\
\hline & Decal, Sleeve - Gatorade & 803,880,37x.x1 \\
\hline & Decal, Sleeve - Aquafina & 803,880,36x.x1 \\
\hline & Decal, Sleeve - 7 Up & 803,881,01x.x1 \\
\hline & Decal, Sleeve - Black & 803,881,88x.x1 \\
\hline & Decal, Sleeve - Neon Blue & 803,877,45x.x1 \\
\hline & Decal, Sleeve - Snapple & 803,879,97x.x1 \\
\hline 16 & Product Pusher Flavor Card Sheet Pepsi Domestic 1 & 803,802,39x.x1 \\
\hline 17 & Product Pusher Flavor Card Sheet Pepsi Domestic 2 & 803,802,40x.x1 \\
\hline 18 & Product Pusher Flavor Card Sheet Generic Domestic 1 & 803,802,41x.x1 \\
\hline 19 & Product Pusher Flavor Card Sheet Generic Domestic 2 & 803,802,42x.x1 \\
\hline 20 & Wiring Diagram, Domestic & 803,881,93x.x1 \\
\hline 21 & Wiring Diagram, Export & 803,881,76x.x1 \\
\hline 22 & Decal, Top Bezel Gatorade & 803,880,33x.x1 \\
\hline 23 & Decal, Top Bezel Aquafina & 803,880,28x.x1 \\
\hline 24 & Generic Bev Max 2 Manual, Service / Operation / Parts & 803,904,11x.x1 \\
\hline 25 & Overlay Keypad - Pepsi & 804,101,25x.x1 \\
\hline & Overlay Keypad - Aquafina & 803,880,29x.x1 \\
\hline & Overlay Keypad - Gatorade & 803,880,34x.x1 \\
\hline & Overlay Keypad - 7 Up & 803,881,04x.x1 \\
\hline & Overlay Keypad - Black & 803,881,89x.x1 \\
\hline & Overlay Keypad - Neon Blue & 803,879,17x.x1 \\
\hline & Overlay Keypad - Snapple & 803,879,98x.x1 \\
\hline & \multicolumn{2}{|l|}{\begin{tabular}{l}
Part numbers \& descriptions are subject to change with out notice. \\
NA = Not applicable \\
\(\mathrm{TBD}=\) To be determined
\end{tabular}} \\
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\section*{SCREWS \& NUTS}
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(A1)


(AB)
ほ
(A4)

(A5)

(A7)

(A8)


(B)

(B2)

(B3)

(B6)
(B4)
(B5)


(B7)

\section*{SCREWS \& NUTS}
\begin{tabular}{|c|c|c|}
\hline ITEM & PART NUMBER & PART NAME AND DESCRIPTION \\
\hline A1 & 900,301,70x.x1 & Screw, Phil Pan Swage Form \#6-32 x 3/8" \\
\hline A2 & 900,301,64x.x1 & Screw, Phil Pan Swage Form w/was her \#8-32 x 1/2" \\
\hline A3 & 900,301,83x.x1 & Screw, Phil Pan Swage Form \#10-32 \(\times 5 / 16{ }^{\prime \prime}\) \\
\hline A4 & 900,301,50x.x1 & Screw, Phil Pan w/out washer, \#8-18 x 1/2" \\
\hline A5 & 900,301,97x.x1 & Screw, Phil Pan Swage Form \#8-32 x 1/4" \\
\hline A6 & 900,300,47x.x1 & Screw, Vend Motor, \#4-24 \(\times 3 / 4{ }^{\prime \prime}\) Single Switch (NOT USED) \\
\hline A7 & 900,301,82x.x1 & Screw, Vend Motor, \#4-24 x 1 1/16" Double Switch (NOT USED) \\
\hline A8 & 900,301,61x.x1 & Screw, Vend Motor, \#4-24 x 1 1/2" Triple Switch (NOT USED) \\
\hline A9 & 900,301,56x.x1 & Screw, Phil Pan Cutting \#8-32 x 3/8" \\
\hline A10 & 900,201,31x.x1 & Screw, Machine, \#6-32 x 1 1/4" \\
\hline A11 & 900,301,97x.x1 & Screw, Phil Pan Sems \#8-32 x 1/4" \\
\hline A12 & 900,301,85x.x1 & Screw, Phil Thread Form \#8-32 x 5/8" \\
\hline A13 & 900,300,16x.x1 & Screw, Phil Head Truss \#6 x 3/8" \\
\hline A14 & 900,301,81x.x1 & Screw, Phil Pan Form \#10-32 \(\times 11 / 4{ }^{\prime \prime}\) \\
\hline A15 & 900,201,14x.x1 & Screw, Machine Truss, \#10-32 \(\times 1 / 2^{\prime \prime}\) \\
\hline A16 & 900,301,65x.x1 & Screw, Phil Pan Sems with washer, \#8-18 x 1/2" \\
\hline A17 & 900,302,01x.x1 & Screw, Self Tapping, 1/4-20 5 5/8" \\
\hline A18 & 900,301,69x.x1 & Screw, Hex Head Swage Form \#8-36 x 3/8" \\
\hline A19 & 900,901,51x.x1 & Screw, Phil Pan Tapping \#10-32 x 5/8" \\
\hline A20 & 900,201,22x.x1 & Screw, Machine Phil Pan \#8-32 x 3/4" \\
\hline A21 & 900,301,98x.x1 & Screw, Phil Pan Shoulder \#8-18×1/2" \\
\hline A22 & 900,301,84x.x1 & Screw, Phil Pan \#8-18x1/2" \\
\hline A23 & 900,500,26x.x1 & Shoulder Screw 1/2" Long \\
\hline A24 & 900,201,13x.x1 & Screw, Hex Head \\
\hline A25 & 900,301,73x.x1 & Screw, Tap 1/4-20x1" Type F \\
\hline A26 & 800,303,15x.x1 & Screw, Phil Pan \#8-18x3/4" \\
\hline A27 & 800,303,18x.x1 & Screw, Truss Type 23 \#8-32x1/2 \\
\hline A28 & 900,301,94x.x1 & Screw, Phil Flat 23B \#10-32x1/2" \\
\hline A29 & 900,201,44x.x1 & Screw, Machine Brass \#6-32x1/4" \\
\hline A30 & 900,301,99x.x1 & Screw, Plastic 8-hi/low x 1 1/4 \\
\hline A31 & 900,301,55x.x1 & Screw, Phil Pan Swage Form \#8-32x1/2" \\
\hline A32 & 900,303,08x.x1 & Screw, Hex Washer Type 1 \#8-32x3/8" \\
\hline A34 & 800,303,22x.x1 & Screw, Phil Pan \#6-20x3/8 \\
\hline A35 & 900,302,02x.x1 & Screw, Self Tapping, \#8-18x3/4 \\
\hline A36 & 900,201,86x.x1 & Screw, Phil Pan Head \#6-32x1/4" \\
\hline & & \\
\hline B1 & 900,800,65x.x1 & Hex Nut, \#10-32 \\
\hline B2 & 900,800,67x.x1 & Hex Nut, 1/4-20 \\
\hline B3 & 900,800,50x.x1 & Hex Nut, \#8-32 \\
\hline B4 & 900,800,69x.x1 & Hex Nut, Top Door Hinge, 3/8-16 \\
\hline B5 & 900,800,85x.x1 & Speed Nut \\
\hline B6 & 900,800,49x.x1 & Hex Nut, \#6-32 \\
\hline B7 & 900,800,51x.x1 & Elastic Stop Nut, \#8-32 \\
\hline B8 & 900,800,81x.x1 & Hex Nut 8-32 \\
\hline B9 & 900,902,37x.x1 & Push Nut, Acorn Type \\
\hline B10 & 900,801,02x.x1 & Hex Nut 5/16-18 \\
\hline B11 & 900,800,81x.x1 & Hex Nut, Flange with Serrations 8-32 \\
\hline
\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable

WASHERS, BOLTS, \& MISC. HARDWARE


(1)

\((12)\)
\((12)\)

(14)
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|r|}{WASHERS, BOLTS, \& MISC. HARDWARE} \\
\hline ITEM & PART NUMBER & PART NAME AND DESCRIPTION \\
\hline C1 & 900,700,60x.x1 & Washer, Delrin . 047 Thick 3/8"IDx5/8"OD \\
\hline C2 & 901,303,77x.x1 & Washer, Door Hinge \\
\hline C3 & 901,503,06x.x1 & Washer, Flat \#2949 (T-Handle) \\
\hline C4 & 901,503,08x.x1 & Washer, Hex \#29-34 (T-Handle) \\
\hline C5 & 900,700,36x.x1 & Lockwasher, Split 3/8" \\
\hline C6 & 900,700,89x.x1 & Lockwasher, Shakeproof 5/8" (1132-00-00-0551) \\
\hline C7 & 900,700,02x.x1 & Steel Washer, 18 Gauge (1/2"x3/16") \\
\hline C8 & 900,700,62x.x1 & Washer, Shakeproof (4610-16-01-0551) \\
\hline C10 & 900,700,83x.x1 & Washer, Flat 18 Gauge (17/64""IDx5/8"OD) \\
\hline C11 & 900,700,08x.x1 & Washer, Flat 14 Gauge (5/16"-3/8"x7/8") \\
\hline C12 & 801,902,48x.x1 & Nylon Spacer \\
\hline & 900,701,05x.x1 & Washer Flat (.343"ID x .688" OD .6T) \\
\hline D1 & 900,400,43x.x1 & T-Bolt, \#8-32 x 1" (obsolete) \\
\hline D2 & 900,400,41x.x1 & T-Bolt, \#8-32 \(\times 13 / 8^{\prime \prime}\) \\
\hline D3 & 900,40x.x5x.x1 & T-Bolt, \#8-32 x 3/4" \\
\hline D4 & 900,400,45x.x1 & T-Bolt, \#8-32 x 1/2" \\
\hline E1 & 900,400,44x.x1 & Refrigeration Bolt, 3/8-16 x \({ }^{1 \prime}\) \\
\hline E2 & 900,201,17x.x1 & Carriage Bolt, 1/4-20×1" \\
\hline E3 & 900,201,23x.x1 & Carriage Bolt, 1/4-20×11/4" \\
\hline E4 & 900,201,45x.x1 & Carriage Bolt, 1/4-20×1/2" \\
\hline E5 & 900,201,54x.x1 & Carriage Bolt, 1/4-20 \(\times 3 / 8^{\prime \prime}\) \\
\hline E6 & 900,201,56x.x1 & Carriage Bolt, 1/4-20×3/4" \\
\hline E7 & 900,303,12x.x1 & Carriage Bolt, 1/4-20x5/8" (obsolete) \\
\hline E8 & 900,201,85x.x1 & Carriage Bolt, \(5 / 16 \times 18 \times 1\) 1/4" Top Hinge (drop in) \\
\hline E9 & 800,303,19x.x1 & Carriage Bolt, 1/4-20x5/8" \\
\hline E10 & 900,202,04x.x1 & Carriage Bolt, \(1 / 4-20 \times 1 / 2^{\prime \prime}\) (red) \\
\hline F1 & 901,100,43x.x1 & Pop Rivet, Aluminum 1/4" \\
\hline F2 & 901,100,44x.x1 & Drive Rivet, \#38-108-06-13 1/4" dia. \\
\hline F4 & 901,100,54x.x1 & Pop Rivet, Black 1/8" \\
\hline F5 & 901,100,61x.x1 & Pop Rivet, Steel (Zinc Plated) 1/8" \\
\hline F6 & 901,100,53x.x1 & Pop Rivet, Aluminum 1/8" \\
\hline F7 & 901,100,60x.x1 & Pop Rivet, Steel (Zinc Plated) 3/16" \\
\hline H1 & 900,902,13x.x1 & Christmas Tree Clip \#354280307-00 (NOT USED) \\
\hline H2 & 900,901,89x.x1 & Tinnerman Clip, Fan Shroud (C5207-014-3B) \\
\hline H3 & 900,401,09x.x1 & Grommet, Bk. Rubber \#97 \\
\hline H4 & 901,503,07x.x1 & E-Ring \#31-30 \\
\hline H5 & 900,900,90x.x1 & Retainer, Roller Pin \\
\hline H6 & 900,902,18x.x1 & Tinnerman Clip \\
\hline H7 & 801,807,01x.x1 & Hole Plug, Snap in - 1 1/4 \\
\hline H8 & 901,806,77x.x1 & Grommet, Admiral \#B53351 \\
\hline H9 & 902,100,29x.x1 & Silencer \\
\hline 11 & 804,601,45x.x1 & \#6 Terminal Ring Crimp 16-14 AWG \\
\hline 12 & 801,902,48x.x1 & Nylon Spacer \\
\hline 13 & 801,809,12x.x1 & Velcro Blocks \\
\hline 14 & 801,807,49x.x1 & Vender Defender Clamp \\
\hline
\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA \(=\) Not applicable

WASHERS, BOLTS, \& MISC. HARDWARE
\begin{tabular}{|c|c|l|}
\hline ITEM & PART NUMBER & \multicolumn{1}{|c|}{ PART NAME AND DESCRIPTION } \\
\hline 15 & \(901,901,89 x . x 1\) & Clamp, Cable 1" Heyco 3390 \\
\hline 16 & \(900,901,79 x . x 1\) & Clamp, Nylon 5/16" Black Heyco 3355 or Dennison 10159 \\
\hline 17 & \(900,901,80 x . x 1\) & Clamp, Nylon 1/2" Heyco 3328 \\
\hline 18 & \(901,901,06 x . x 1\) & Hand Tie, x.x" \\
\hline 19 & \(901,902,01 x . x 1\) & Wire Tie, 7 1/2" \\
\hline 10 & \(901,901,00 x . x 1\) & Wire Ties, 4" \\
\hline 11 & \(901,900,55 x . x 1\) & Clamp, Nylon 3/4" Heyco 3382BL \\
\hline 12 & \(901,902,83 x . x 1\) & Cable Tie, \(x . x^{\prime \prime}\) \\
\hline 13 & \(900,902,14 x . x 1\) & Canoe Clip \#254-090-301-00-0108 \\
\hline
\end{tabular}

Part numbers \& descriptions are subject to change with out notice.
NA = Not applicable```

