## Technical <br> Manual

Coca-Cola Lean Marketing Vender
P Series LMV


## Model DN552P

Beginning Production Run 6925CB
P.O. Drawer 719

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## APPLICATION

This information applies to $P$ Series venders manufactured the third quarter 2003 which have significant differences in programming and parts content from previous venders. To order parts or information pertaining to this vender, please contact Dixie Narco.

## 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 UNINFORMED
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 P Series August 2003
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 yyyyzzxxxx.The last 4 digits ( $x x x x$ ) identify the specific vender. The first 4 digits (yyyy) identify the manufacturing run that the vender was built in. The two alpha characters (zz) identify the quarter and the year the vender was built. The first alpha-character identifies the quarter.
$\mathrm{A}=1$ st quarter
$\mathrm{B}=2$ nd quarter
$C=3$ rd quarter
$D=4$ th quarter
The second alpha-character identifies the year:
$B=2003$
$C=2004$
D $=2005$

## PHYSICAL CHARACTERISTICS

|  | 552P |
| :---: | :---: |
| HEIGHT | 72" |
| WIDTH | 28" |
| DEPTH | 33.5" |
| DEPTH WITH VALIDATOR | N/A |
| SHIPPING WEIGHT | 600 lbs. |
| Loaded Weight 4 Deep Cans | 1134 lbs |

## RECEIVING INSPECTION

Upon receipt, inspect the vender for any shipping damage. If there is any damage have the 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.

The Dixie-Narco P Series vender is designed utilizing the latest technology.

## UNPACKING THE VENDERS

Remove the stretch wrap and top cover from the vender. Product cards are installed in the select buttons.


DO NOT STORE THE VENDER OUTSIDE WITH THE STRETCH WRAP ON. THIS COULD CAUSE THE STRETCH WRAP TO 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 $11 / 2^{"}$ "socket type" wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.


## ELECTRIC POWER NEEDED

Refer to the cabinet serial number plate to determine the proper voltage and frequency the machine requires (domestically this requirement is 120 Volts, 60 Hertz). The cabinet serial plate also indicates the Amperage of the vender. The vender must be plugged into a properly rated, single phase alternating current outlet with its own circuit protection (fuse / 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.


Warning

FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK WHICH CAN BE SERIOUS OR FATAL.

PLACING THE VENDER ON LOCATION !! CAUTION !!<br>DO NOT TRANSPORT THE VENDER TO OR FROM THE LOCATION LOADED WITH PRODUCT.<br>DAMAGE TO THE VENDER MAY RESULT.

The vender must be located on a solid, flat, and level surface. Ensure the flooring can bear the weight of a fully loaded vender (approx. 1134 lbs ). The vender must be positioned close enough to an electrical outlet 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 Dixie-Narco Technical Bulletin 344. Call the DixieNarco Technical Service Department or your DixieNarco Representative for assistance.

## LEVEL THE VENDER

When the vender is level, the door can be opened to any position and it will not move by itself. Open the door to several different positions before deciding the vender is level. A carpenter's level will help verify the machine is level.

Make sure that all leveling legs are in contact with the floor. If you cannot level the vender in its current location, select another location. DO NOT place any objects under the machine.

DANGER
THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. 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 DIXIE-NARCO TECHNICAL BULLETIN 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL THE DIXIENARCO TECHNICAL SERVICE DEPARTMENT OR YOUR DIXIENARCO REPRESENTATIVE FOR ASSISTANCE.

## SPACE THE VENDER

Do not block the rear of the vender. Keep the vender 4 inches ( 10 cm ) from the wall to ensure adequate airflow to the condenser and compressor. At the front of the vender, make sure that nothing obstructs the air intake at the bottom of the main door. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.

## WARNING <br> 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 AND AROUND THE REFRIGERATION COMPARTMENT, THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

## COIN CHANGERS \& OTHER ACCESSORIES

The vender must have an MDB coin changer installed and can have an MDB bill acceptor installed. If the MDB coin changer and other MDB accessories are not factory installed, refer to the instructions received from the manufacturer of the MDB coin changer and other MDB accessories for proper set-up and installation.

The vender will support the following MDB coin changers:

Multi-Drop Coin Mech (Domestic)
Coinco 9302GX
Coinco USQ G700 Series
Conlux USLZ-101
Conlux CCM5G
Mars 4510
Mars 6512

The vender will support the following MDB bill validators:

Multi-Drop Bill Validators (Domestic)
Coinco BA30B, BA50, MAG30, MAG50
Mars VN2512, VN2502, VN2312
Conlux NBU-2111-12, NBM 3000 Series
Ardac 5500 Series

The vender will support the following MDB card readers:

At publication, card reader dispositions were not available. Contact card reader manufacturer for proper installation and setup.

## LOADING CHANGE TUBES

Open the main door and enter the "TUFL" TUBE FILL ROUTINE mode in the sub-menu in Programming (see Section B - Programming).

Load the coin mechanism with coins by inserting coins in the coin mech's separator. The display will show the total of coin type as they are inserted.

## Note: A low coin level in the coin tubes will interfere with operation of the bill validator.

For additional information about coin mechanisms, refer to the specific manufacturer's instructions.

## Loading Product

The P Series Vender is designed to vend a wide range of packages.

All P Series Venders are shipped ready to vend packages according to customers orders. To vend an alternative package in the $P$ Series vender, contact Dixie Narco Technical Service Dept. or your Representative for assistance.

## INITIAL LOADING

To ensure proper vending, make sure wide columns are set to vend the proper packages. When loading a wide column, the first row of bottles should be loaded on the bottom bar of the oscillator. The second row of packages must be loaded on the top bar of the oscillator. Always load complete rows; do not load only to the back or only to the front of the column.

The narrow column rotors must be in the "cup" position to receive the first row of packages. When loading narrow columns, lay the first row of packages in the rotor. The second row of packages must be loaded on the load bar.

Correct loading will prevent service calls and ensure proper vending.

After loading the vender for the first time, ensure the vender is loaded and primed. Priming is done in programming. The depth must also be programmed depending on the package to be vended. Cans may be programmed up to 4 deep.

NOTE: To ensure proper airflow through the evaporator, DO NOT place bottles (or other foreign) objects in the bottom of the tank.

## SERVICE NOTE

Battery Backup (SBC)
The Single Board Controller is equipped with a battery backup which is used to retain information programmed in the system (pricing, time, date, etc.) 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.

Disconnect the battery if the vender will be stored for a long period of time. The following steps will guide you through this procedure.
> Remove power from the vender by unplugging the main power cord from the wall receptacle.
> Locate the Control Board on the main door. Remove the battery from its holder (B1).

# COCA-COLA EVS REVISION 3.0 P SERIES PROGRAMMING METHOD August 2003 

The controller has two modes of operation: SALES and SERVICE.

## SALES MODE:



In sales mode, on power up display will show software installed in vender, then change to POS message or decimal point. Note: If "COLS" "" appear s on the display on power up with the door open, you will need to program the vender model number in the controller. To program with "COLS" on the display press select button 4 . The display will show " 6 " for six columns. Press select button 2 to scroll through available number of columns in the machine. When the displayed number of columns matches the number of columns in the machine, press select button 4 to set the number of columns. "MODL" will appear on the display, press select button 4. The display will show the first available model number for the current vender type. Press select button 2 to scroll through the available vender model numbers for this vender. When the vender type you wish to save is showing on the display, press select button 4 . The display will scroll " 4 = SET PACKAGE TYPE 1 = EXIT" . Press select button 4 and the display will show "ALL1" with the 1 flashing. This will allow you to set the package type of the machine if it is different that the default of package type 2. Press select button 2 to scroll through the available package types. Press select button 4 to set the displayed package type, and the display will show "SAVE". Press button 4 to save the package type. "PRM1" will appear on the display. Press button 4 to prime column 1 or select button 1 to skip priming column 1. The display will then display "PRM2". Repeat the priming process until all columns have been primed or skipped. The controller will return to normal door open operating mode. The far right decimal also being lit indicates column(s) is (are) - jammed or select switch(es) are stuck. When money is inserted, the display indicates the total amount of the deposit. The select buttons are used to select the product. In sales mode you may access an external menu for reading historical sales counters, cash counters, error codes, or return to sales mode.

## SERVICE MODE:

If configuration switch 4 is set to "C4 0", when the door is opened, "NONE" or a list of Error codes will show on the display. If configuration switch 4 is set to "C4 1", when the door is opened, "CASH \#\#\#\#-\#\#.\#\#", "SALE \#\#\#\#\#\#\#\#", "CARD \#\#\#\#-\#\#\#\#", "EROR", or "NONE" will show on the display. The service mode is entered when the door is open and the service switch on the controller is pressed. The operator can now use the first four select switches to move through the main routine menu.

| Select Button 1: | Abort/Cancel - will return to previous menu prompt. |
| :--- | :--- |
| Select Button 2: | Scroll Up - forward in menu. |
| Select Button 3: | Scroll Down - backward in menu. |
| Select Button 4: | Enter/Save/Clear - Allows you to enter a specific routine, save what you have programmed, or |
|  | clear the error prompts. |

Note: Routines with * are password protected. They can only be viewed and entered after the password is entered at the "PASS" prompt.

EXTERNAL MENU MODE:
The information available in this mode is obtainable with the door closed or open as long as the vender is in sales mode, by entering the password which is set at $4,2,3,1$. Information available is historical cash counted, resettable cash counted for each selection, historical sale (total number of vends), resettable vends counted for each selection, error codes, and return. Refer to the "CASH", "SALE", AND "EROR" routines for instructions to move through the menus.

## PROGRAMMING MENU

## "EROR" - ERROR ROUTINE

This function allows you to enter the error readout routine. Eror will appear when you press the service button on the control board. Press select button 4, if there have been no errors since the last reset, the display will read "NONE". If one or more errors have occurred, the display will show the first error code that occurred.

The following are error codes that may be displayed and detailed information accessed: NONE, VEND, CTRL, SEL, STS, CHAR, BUAL, CRDR, S-D, and RFRG.

Press select button 2 or 3 to scroll through any error codes that are present.

Important: If there is only one problem, that will be the only error code shown when you enter the error code sub-menus.

With an error code showing on the display, press select button 4 to access detailed information.
With an error code showing on the display, press and hold select button 4 for 2 seconds, will clear the error.
Press select button 1 to return to "EROR".
"VEND" - Vend Mechanism Summary Errors
Press select button 4 and the display will show one of the following:

- "CJ\#", where \# is the column number detected jammed.
- "CS", chute sensor failure.
- "HS", home sense error.

Press select button 1 will return to "VEND" if all vend mech errors have not been cleared.
If all vend mech errors have been cleared the next error mode will be displayed, or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"CTRL" - Control System Summary Errors
Press select button 4 and the display will show one of the following:

- "DS", indicating a door switch in the open position for more than 1 hour.
- "RAM", indicating the check sum for service mode settings memory has been corrupted.
- "ACLO", indicating AC supply to the machine has fallen more than $15 \%$ below normal line voltage for more than 30 seconds.
- "SF", indicating a peripheral has introduced a scaling factor that is incompatible with current setting.
Press select button 1 will return to "CTRL" if all control system errors have not been cleared.
If all control system errors have been cleared the next error code will be displayed, or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"SEL" - Select Switch Summary Errors
Press select button 4 and the display will show "SL\#\#", indicating a select switch has been active for more than 15 seconds while in normal (sales) mode.
Press select button 1 will return to "SEL" if all select switch errors have not been cleared.
If all select switch errors have been cleared the next error code will be displayed or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"STS" - Space To Sales Summary Errors
Press select button 4 and the display will show "UA\#\#", indicating a column not assigned to a select button.
Press select button 1 will return to "STS" if all space-to-sales errors have not been cleared.
If all space-to-sales errors have been cleared the next error code will be displayed, or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"CHAR" - Changer Summary Errors
Press select button 4 and the display will show one of the following:
- "CC", indicating a changer communication error. (No communication for more than 2 seconds)
- "TS", indicating a tube sensor error.
- "IC", indicating an inlet chute blocked error (no coins sensed in acceptor for 96 hours).
- "TJ\#\#", indicating a tube jam error.
- "CRCH", indicating a changer ROM check sum error (failed changer).
- "EE", indicating excessive escrow attempts (more than 255 since last coin sensed).
- "NJ", indicating a coin jam reported by coin mech.
- "LA", indicating a low coin acceptance rate (less than 80\%).
- "DIS", indicating an acceptor is unplugged.
- "ROUT", indicating a coin was mis-routed.

Press select button 1 will return to "CHAR" if all changer errors have not been cleared.
If all changer errors have been cleared the next error code will be displayed or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"BUAL" - Bill Validator Summary Errors
Press select button 4 and the display will show one of the following:

- "BC", indicating a bill validator communication error. (No communication for more than 5 seconds)
- "BFUL", indicating the bill stacker is full.
- "BILL", indicating a defective motor in the validator.
- "BJ", indicating a bill jam in the validator.
- "BRCH", indicating a check sum error.
- "BOPN", indicating an open stacker.
- "BS", indicating a bill validator sensor error.

Press select button 1 will return to "BUAL" if all changer errors have not been cleared.
If all validator errors have been cleared the next error code will be displayed or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
"CRDR" - Card Reader Summary Errors
Press select button 4 and the display will show one of the following:

- "CRC", indicating no card reader communication for 5 seconds.
- "CRXY", indicating the most recent "non-transient error" from the card reader (failed card reader).
Press select button 1 will return to "CRDR" if all changer errors have not been cleared.
If all card reader errors have been cleared the next error code will be displayed or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
Press select button 2 will scroll to the next routine.
"S-D" - Display Device Summary Errors
Press select button 4 and the display will show one of the following:
"SDC", indicating no display device communication for 5 seconds.
- "SDXX", error code number "XX".

Press select button 1 will return to "S-D" if all display device errors have not been cleared.
If all display device errors have been cleared the next error code will be displayed or "NONE" if there are no errors.
Press select button 1 will return to "EROR".
Press select button 2 will scroll to the next routine.
"RFRG" - Refrigeration Summary Errors
Press select button 4 and the display shows one of the following:

- "SENS", indicating the temperature sensor is defective or unplugged.
- "COLD", indicating the cabinet temperature is $3^{\circ} \mathrm{F}$ below lower limit.
- "HOT", indicating the cabinet temperature is $3^{\circ} \mathrm{F}$ above upper limit.
- "CNPR", indicating the cooling system has failed to decrease temperature $1^{0} \mathrm{~F}$ per hour while the compressor is running.


## "CPO" - COIN PAYOUT ROUTINE

This function allows you to dump coins from the coin mechanism.
Press select button 4 to enter mode and the lowest coin value dispensable will show on the display. If a coin mech is not in the vender "NOCM" will be displayed.
Press select button 2 or 3 to scroll through the different coin values available.
Press and hold select button 4 to dump the coins whose value is shown on the display.
Press select button 1 will return to "CPO".
Press select button 2 to scroll to the next routine.

## "TUFL" - TUBE FILL ROUTINE

This function allows you to count the coins loaded in the top (separator) of the coin mech that will be routed to an inventory tube. Press select button 4 to enter mode and the total number of the coin type being entered will be displayed and counted in the vender controller as they are installed. . If a coin mech is not in the vender "NOCM" will be displayed. The controller will inhibit the acceptance of any coin, which does not go to a tube during this procedure. If a tube full status is detected, that coin type will be inhibited. When you finish loading all coins:

Press select button 1 to return to "TUFL".
Press select button 2 to scroll to the next routine.

## "TEST"- TEST ROUTINE

This function allows you to diagnose different functions of the vender.
Press select button 4 and the display will show "VEND".
Press select button 2 or 3 to scroll through the test routines available.
Press select button 1 to return to "TEST".
"VEND" - Vend Testing
This function allows you to test vend each column.
Press select button 4 and the display will show "CO-1".
Press select buttons 2 or 3 to scroll through the columns available to run in motor test.
Press select button 4 to run the motor of the column displayed. The Motor will run until a product is dispensed or the motor cycles through the package set cycles and determines column is sold out.
Press select button 1 will return to "VEND".
Press select button 2 to scroll to next test mode.
"JOG" - Jog Test or Prime
This function allows you to test jog or prime each column.
Press select button 4 and the display will show "CO-1".
Press select buttons 2 or 3 to scroll through the columns available to run in jog test.
Press select button 4 to select the column displayed and "FOR" is displayed.
Press select buttons 2 or 3 to scroll through "FOR"(forward), "REV"(reverse), and "PRIM"(prime) motor direction.
Press select button 4 to jog/prime the selected motor in the displayed direction.
Press select button 1 will return to "CO-X". Whare X is the column that was just tested.
Press select button 1 again will return to "JOG".
Press select button 2 to scroll to next test mode.

## "SL" - Select Switch Test

This function allows you to test each select switch.
Press select button 4 and the display will show "4". Then press any select button and the display will show the last select button pressed.
Press and hold select button 1 for approximately 5 seconds will return to "SL".
Press select button 2 to scroll to the next test mode.
"SO" - Sold Out Test
This function allows you to view if a column is sold-out or not sold-out.
Press select button 4 and the display will show "C\#\#", where C\# represents the column number being checked and second $\# 0=$ not sold-out, $1=$ sold-out.
On machines with DC motors, the current sold out state will be displayed.
Press select button 1 to return to "SO".
Press select button 2 to scroll to the next test mode.
"DSP" -Display Test
This function allows you to test all segments in the display.
Press select button 4 and the display segments will illuminate in the following manner; all vertical elements followed by all horizontal elements, then all diagonal elements. All sold-out indicators (if used) are lit with the horizontal elements and "Use Correct Change Only" indicators are lit with the vertical elements.

Press select button 1 to return to "DSP".
Press select button 2 to scroll to "RELY".
"RELY" - RELAY TEST
This function allows you to test the relay electronic control of the compressor (CNP\#), the evaporator fan(s) (FAN\#), and the sign front light (LIT\#).
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 select button 4 and the display will show "CNP\#", where \# is the state of the relay $0=$ not activated or off; $1=$ activated or on. Press select button 4 to toggle the relay on and off. Press select button 2 to scroll to "FAN\#", where \# is the state of the relay $-0=$ not activated or off, 1 = activated or on.
Press select button 4 to toggle the fan(s) on and off.
Press select button 2 to scroll to "LIT\#", where \# is the state of the relay - $0=$ not activated or off; $1=$ activated or on. Press select button 4 to toggle the lights on and off.
Press select button 1 to return to "RELY".
Press select button 1 again to return to "TEST".
Press select button 2 to scroll to "PASS".
*"PASS" - PASSWORD ROUTINE
This function allows you to enter the following routines, which are not accessible until the operator enters a password, which is set as 4-2-3-1. To enter the password, press select button 4 until the display goes blank. Then press select button 2, then 3 , then 1 , and then 4 , and "CASH" should appear on the display. If not entered properly, the display will return to "PASS". If entered correctly, the display will go to the next function "CASH".

## *"CASH" - CASH COUNTER ROUTINE

This function will show the user the vender historical total cash counted and the resettable cash counted for each selection for the vender.

Press select button 4 and "CASH"/"\#\#\#\#"/"\#\#.\#\#" will show on the display where the 8"\#" characters are the historical total cash counters that have been recorded. Note: Leading zeros are not displayed. Example: Display flashes "CASH", then " 26 ", then " 2500 ". This is $\$ 2625.00$ historical total cash.
Press select button 2 or 3 to display "CA\#"/"\#\#\#\#"/"\#\#.\#\#" where the character "CA\#" is a selection number and the 8 "\#" characters are the resettable cash counters for that selection. Note: Leading zeros are not displayed. Pressing select button 2 or 3 at this time will scroll through the available selection cash counters. Example: Display flashes "CA1", then " 5 ", then " 20.50 ". This is $\$ 520.50$ resettable cash for selection \#1. Press select button 1 to return to "CASH"/"\#\#\#\#"/"\#\#.\#\#". Press select button 1 again to return to "CASH".

Press select button 2 to scroll to the next routine.

## * "SALE" - SALES COUNTER ROUTINE

This function will show the user the vender historical total number of vends and the resettable vends counted for each selection for the vender.

Press select button 4 and "SALE"/"\#\#\#\#"""\#\#\#\#" will show on the display where the 8"\#" characters are the historical total vend counters that have been recorded. Note: Leading zeros are not displayed. Example: Display flashes "SALE", then "1325". This is 1325 historical vends.
Press select button 2 or 3 to display "SL\#"/"\#\#\#\#"/"\#\#\#\#", where the "SL\#" character is a selection number and the 8"\#" characters are the resettable vend counters for that selection. Note: Leading zeros are not displayed. Pressing select button 2 or 3 at this time will scroll through the available selection vend counters. Example: Display flashes "SL 1" then "145". This is 145 resettable vends counted for selection 1. Pressing select button 1 will return to "SALE"/"\#\#\#\#"/"\#\#\#\#". Press select button 1 to return to "SALE".

Press select button 2 to scroll to the next routine.

## * "PRIC" - PRICE SETTING ROUTINE

This function allows the user to set pricing. When Configuration Switch 1 is programmed to "C1 1", multipricing is on and a price for each selection needs to be set.

Press select button 4 and "PR1" will show on the display.
Press select button 4 to set the price on select button 1, "00.00" or current price setting will show on the display.
Press select button 2 or 3 to change the price setting for selection 1 .
Press select button 4 to enter the price selected and the display will return to "PR1".
Press select button 2 to scroll to the next selection you wish to set price. Press select button 4 , set the price and enter the price. Repeat these steps for each select button until all prices are set. Note: Selections go PR1 through ALL.

If Configuration Switch 1 is programmed to "C1 O", single price, set SPRI1 as described above. The price entered for SPRI1 will be set for all selections.
Press select button 1 to return to "PRIC".
Press select button 2 to scroll to the next routine.

## * "STS"- SPACE-TO-SALES ROUTINE

This function allows you to change the space-to-sales settings.
Press select button 4 and "OPT\#" or "CSTS" will show on the display, this indicates the current space-tosales option.
Press select button 2 or 3 to scroll through the options.
Press select button 4, with the desired option showing on the display, to save that option and return to "STS".
Space-to-Sales Options:
SELECT / COLUMN OPTIONS

|  | DN52 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Select | opt | opt | opt | opt | opt | opt |  |
| $\#$ | 1 | 2 | 3 | 4 | 5 | 6 |  |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
| 2 | 1 | 2 | 2 | 2 | 2 | 1 |  |
| 3 | 2 | 2 | 3 | 3 | 3 | 2 |  |
| 4 | 2 | 3 | 3 | 4 | 4 | 3 |  |
| 5 | 3 | 3 | 4 | 4 | 5 | 4 |  |
| 6 | 4 | 4 | 4 | 5 | 5 | 5 |  |
| 7 | 5 | 5 | 5 | 5 | 6 | 6 |  |
| 8 | 6 | 6 | 6 | 6 | 6 | 6 |  |
| 9 | NA | NA | NA | NA | NA | NA |  |
| 10 | NA | NA | NA | NA | NA | NA |  |
| 11 | NA | NA | NA | NA | NA | NA |  |
| 12 | NA | NA | NA | NA | NA | NA |  |

NA $=$ Not Applicable
"CSTS" - Custom space-to-sales allows you to assign columns to select buttons.
Press select button 4 and "SL\#/\#\#" will alternate showing on the display. SL\# is the select button number and \#\# is the column(s) currently assigned or "NONE".
Press select button 4 and "CO\#" will show on the display. "CO\#" is the column number to be added or deleted to select button.
Press select button 4 and "CO \# \#" will show on the display with \# blinking on the display; $0=$ off or delete, $1=$ on or add.
Press button 2 to scroll between 0 and 1. With the setting you wish to use showing on the display press select \#4 and return to "CO\#".
Press select button 1 will return to "SL\#/\#".
Press select button 1 again will go to "SAVE".
Press select button 4 to save and display will go to "STS".
Repeat steps above to add/delete columns to each selection.
Press select button 2 to scroll to next routine.

## * "CON" - MACHINE CONFIGURATION

This function allows the user to access and change the programming of the following machine configuration settings. If you press select button 4 and the display shows "LOC", this means configuration setting changes will not be allowed. If "C1" is displayed, then configuration setting changes will be allowed. "LOC" can only be enabled or disabled through DEX programming. If "C1" is displayed, the listed settings are available. Note: You must press select button 4 with the configuration code displayed if you wish to enter the edit mode. The " 0 " or " 1 " will be flashing to acknowledge you are in the edit mode.
IMPORTANT: All machine configuration codes are disabled coming from the factory ( $\mathrm{C} \# 0$ ).
C1- Configuration Switch 1 - Multi-Price Setting Mode
This code is used to enable the single price mode "C1 O" or multi-price mode "C1 1".
Press select button 4 and "C1 \#" will be displayed, with the "\#" flashing.
Press select buttons 2 or 3 to scroll between "C1 O" and "C1 1".
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C1 \#"and keep the original setting.
Press select button 2 to scroll to "C2 \#".
C2 - Configuration Switch 2-Optional Features Enable
This code is used to allow (C2 1) the following optional features to be displayed and enabled: "DISC", "OVER", "BLC1", "BLC2", and "SDEP".
Press select button 4 and "C2 \#" will be displayed with the \# flashing.
Press select buttons 2 or 3 to scroll between "C2 0" and "C2 1".
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C2 \#"and keep the original setting.
Press select button 2 to scroll to "C3".
C3- Configuration Switch 3 - POS Message
This code is used to disable the point of sale message. C3 $0=$ enabled, C3 $1=$ disabled.
Press select button 4 and "C3 \#" will be displayed, with the "\#" flashing.
Press select buttons 2 or 3 to scroll between "C3 0" and "C3 1".
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C3 \#"and keep the original setting.
Press select button 2 to scroll to "C4".
C4- Configuration Switch 4 - Automatic Viewing of Historical Sales and Cash Accounting, EROR or NONE
This code is used to enable viewing of historical sales and cash, and EROR or NONE automatically when the door is opened. To enable automatic viewing option enter "C4 1"; to disable enter "C4 0".
At "C4 0" any existing errors or "NONE" is automatically displays when the door is open.
Press select button 4 and "C4 \#" will be displayed, with the "\#" flashing.
Press select button 2 or 3 to scroll between "C4 0" and "C4 1".
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C4 \#"and keep the original setting.
Press select button 2 to scroll to "C5".
C5- Configuration Switch 5 - Door Switch Reset Status
This code is used to reset all resettable data when the door switch is cycled and at least one data register is read via the display when set at "C5 1" or to reset all resettable data only when the "RESET" command is received via handheld or portable computer when set at "C5 0".
Press select button 4 and "C5 \#" will be displayed, with the "\#" flashing.
Press select buttons 2 or 3 to scroll between "C5 0" and "C5 1".
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C5 \#"and keep the original setting.
Press select button 2 to scroll to "C6".
C6- Configuration Switch 6 - Reserved
This code is reserved for future use.
Press select button 2 to scroll to "C7".

C7- Configuration Switch 7 - Save Credit
This code is used to determine how long a credit will be saved.
C7 0 will save the credit for five minutes. C7 1 will save the credit indefinitely.
Press select button 4 and "C7 \#" will be displayed, with the "\#" flashing.
Press select button 2 or 3 to scroll between C7 0 and C7 1 .
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C7 \#"and keep the original setting.
Press select button 2 to scroll to "C8".
C8 - Configuration Switch 8 - Force Vend
This code is used to determine escrow to select or escrow to price.
C8 0 will set vender to escrow to select and C8 1 will set vender to escrow to price.
Press select button 4 and "C8 \#" will be displayed, with the "\#" flashing.
Press select button 2 or 3 to scroll between C8 0 and C8 1.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C8 \#"and keep the original setting.
Press select button 2 to scroll to "C9".
C9- Configuration Switch 9 - Multi Vend
This code is used to allow multiple vends without re-depositing funds.
C9 0 will not allow multiple vends and C9 1 will allow multiple vends.
Press select button 4 and "C9 \#" will be displayed, with the "\#" flashing.
Press select button 2 or 3 to scroll between C9 0 and C9 1.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C9 \#"and keep the original setting.
Press select button 2 to scroll to "C10".
C10- Configuration Switch 10 - Bill Escrow Inhibit
This code is used to allow last bill that meets or exceeds maximum vend price to be held in escrow. C10 0 will escrow bill and C10 1 will not escrow bill.
Press select button 4 and "C10 \#" will be displayed, with the "\#" flashing.
Press select button 2 or 3 to scroll between C10 0 and C10 1.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C10 \#"and keep the original setting.
Press select button 2 to scroll to the next configuration code.
Press select button 1 to return to "CON".
Press select button 2 will scroll to next routine.

## *"CCOC" - CORRECT CHANGE ONLY CONTROL ROUTINE

This function is used to allow consumer overpay, set a correct change value, and set an unconditional acceptance value.

Press select button 4 will display "CON\#" where \# is the current setting of allow consumer overpay. Press select button 2 or 3 to scroll to "CCU" or "ACC".
"CON\#" - Allow Consumer Overpay
This function allows the vender to vend with the risk of not being able to return the full amount of change. This function has to be turned on"CON1" to use the value set in "ACC. Press select button 4 and display will show "CON\#" with the \# flashing.
CON1 will allow consumer overpay (customer could potentially be shortchanged) and CON0 will not allow consumer overpay (will not allow customer to be shortchanged).
Press select button 2 or 3 to scroll between CON0 and CON1.
Press select button 4 with the display flashing the setting you wish to use to select that setting, or press select button 1 to return to "C10 \#"and keep the original setting.
Press select button 2 to scroll to "CCU".
"CCU" - Correct Change Value
This is the function that the control board will use to set a value which will turn on the correct change indicator. Note: The "CCU" must be equal to or greater than the "ACC".

Note: If the value set is 00.00 , the correct change indicator will never come on.
If the controller determines that it cannot return the exact amount of the correct change value or any value less than it then the indicator will be turned on.
Press select button 4 and the display will show "\#\#.\#\#' with leading zeros not being displayed.
Press select button 2 or 3 to scroll from. 00 to 99.99.
Press select button 4 with the display showing the value you wish to use to accept that value, or select button 1 to keep the original value displayed. Display will return to "CCU"
Press select button 2 to scroll to "ACC".
"ACC" - Unconditional Acceptance Value
This is the function that the control board will use to set the largest value of any single form of currency (coin or bill) that can be accepted. . Note: if "ACC" is set to a value greater than "CCU" the "CCU" value will be automatically set equal to the "ACC" value.
Press select button 4 and the display will show "\#\#.\#\#' with leading zeros not being displayed.
Press select button 2 or 3 to scroll from. 00 to 99.99.
Press select button 4 with the display showing the value you wish to use to accept that value, or select button 1 to keep the original value displayed. Display will return to "ACC".
Press select button 1 to return to "CCOC".
Press select button 2 to scroll to next routine.

## *"PREV" - PREVIEW DATA PASSWORD ROUTINE

This function is used to enable viewing of cash collected, product sales, and error codes without opening the door. To view the data the 4 digit password (4-2-3-1) must be entered with the door closed. Once entered the "CASH", "SALE", "EROR", and "RTN" menus are available from the front of the vender. To view, follow instructions for cash counter routine, sales counter routines, error routine and return.

To change "PREV" password:
At "PREV" press select button 4, "\#\#\#\#" (representing current four digit password) will show on display with the far left digit blinking. Press select button 2 or 3 to scroll to number desired for password. Press select button 4 to accept the flashing digit. The next digit will start blinking, press select button 2 or 3 to scroll to number desired for password. Press select button 4 to accept the flashing digit. Continue this process until all 4 digits are set. Then press select button 4 and the display will return to "PREV" and the new password has been saved. Pressing select button 1 at anytime during this routine will return to "PREV" with no changes to password occurring.

Press select button 2 to scroll to next routine.

## *"LANG" - LANGUAGE

This function is used to set the language that will be used for display messages. Note: This does not change the menu prompts.
Press select button 4 and the display will show the language currently set in the controller.
Press select button 2 or 3 to scroll through the languages available.

| ENG - | English | ITA | - | Italian | SLO - |
| :--- | :--- | :--- | :--- | :--- | :--- |
| FRN - | French | PORT - | Portuguese | FIN - | Finnish |
| GER - | German | ESP | - | Spanish | NOR - |
| Norwegian |  |  |  |  |  |

With the language you wish to enter showing on the display, press select button 4 and display will return to "LANG".. Pressing select button 1 at anytime during this routine will return to "LANG" with no changes to password occurring.

Press select button 2 to scroll to next routine.

## *"TIME" - TIME AND DATE SETTING ROUTINE

This function is used to set the year, month, date, and hour (military 24 hour clock).
Press select button 4 and "ENB\#" will show on display with \# showing the current setting for the enable routine.
$\begin{array}{ll}\text { "ENB\#" - } & \text { Time and Date Enable Routine } \\ & \text { Press select button } 4 \text { and \# will flash. } \\ & \text { Press select button } 2 \text { to scroll between ENB0 and ENB1. }\end{array}$

Press select button 4 with the display showing the setting you wish to use and display will return to "ENB\#".
Press select button 2 to scroll to "YEAR".
"YEAR" - Year Setting (2000 to 2099)
Press select button 4 and the current year setting will show on display.
Press select button 2 or 3 to change the year (2000 to 2099).
After pressing select button 4 to accept the year on the display, or select button 1 to keep the year originally displayed, the display will return to "YEAR".
Press select button 2 to scroll to "MTH".
"MTH" - Month Setting (01 to 12)
Press select button 4 and the current 2 digit month setting will show on display.
Press select button 2 or 3 to change the month ( 01 to 12).
After pressing select button 4 to accept the month on the display, or select button 1 to keep the month originally displayed, the display will return to "MTH".
Press select button 2 to scroll to "DATE".
"DATE" - Day of Month Setting (1 to 31)
Press select button 4 and the current 2 digit day of month setting will show on display.
Press select button 2 or 3 to change the day of month ( 1 to 31 ).
After pressing select button 4 to accept the date on the display, or select button 1 to keep the date originally displayed, the display will return to "DATE".
Press select button 2 to scroll to "HOUR".
"HOUR" - Hour and Minute Setting (0000 to 2359)
Press select button 4 and "hhmm" will be displayed, where "hh" is the hour (military time) and " mm " is the minute.
The hour setting will be blinking to indicate it can be changed. Press select button 2 or 3 to change the hour setting. Press select button 4 to save the hour setting and the minute setting will start blinking to indicate it can be changed. Press select button 2 or 3 to change the minute setting. Press select button 4 will save and return display to "HOUR".
Pressing select button 1 at anytime during this routine will return to "HOUR" with no changes to the hour or minute settings occurring.
Press select button 2 to scroll to "DST".
"DST" - Daylight Saving Time Setting
This function is used to set the preferred daylight savings time setting.
Press select button 4 will display the current setting.
Press select button 2 or 3 to scroll through the "DST" options listed:
"OFF", no daylight savings time changes made.
"AUS", Australian rules - Set forward 1 hour at 1:00 am on the first Sunday in October; Set backward 1 hour at 1:00 am on the last Sunday in March.
"EU" European rules - Set forward 1 hour at 1:00 am on the last Sunday in March; Set backward 1 hour at 1:00 am on the last Sunday in October.
"NA" North American rules - Set forward 1 hour at 2:00 am on the first Sunday in April; Set backward 1 hour at 2:00 am on the last Sunday in October.
Press select button 4 with the display showing the setting you wish to use and display will return to "DST".
Pressing select button 1 at anytime during this routine will return to "DST" with no changes to the Daylight Savings Time settings occurring.
Press select button 1 to return to "TIME".
Press select button 2 to scroll to next routine.

## *"LIT" - LIGHTING CONSERVATION CONTROL ROUTINE)

This function is used to turn the lights off and on during certain periods of the day. Press select button 4 will enter "ENB\#" with the current ENB setting displayed.

ENB\# - Lighting Conservation Control Enable Routine

This function is used to disable Lighting Conservation Control "ENBO" (lights will be on at all times) or enable Lighting Conservation Control "ENB1" (lights can be set to turn off).
Press select button 4 and the \# will begin to flash.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid "ENB\#".
Press select button 2 to scroll to "STRT".
STRT - Start Lighting Conservation Setting (lights off)
This function is used to set the days and time to start Light Conservation when "ENB 1 " is selected.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day to Start Setting.
This function is used to set the days of the week to start Light Conservation.
Press select button 4 and "xxx\#" will show on the display, where $x x x$ will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and \# is $0=$ disable, $1=$ enable. With the display showing the day you wish to set press select button 4. The \# will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1". Press select button 4 with the display showing the setting you wish to use. Display will return to "xxx\#". Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".
"HOUR" - Start Hour and Minute Setting
This function is used to set the hours to start Light Conservation (lamps off).
Press select button 4 and "hhmm" will show on the display, where "hh" is the hour (military time) and "mm" is the minute. "hh" will be blinking, indicating the hour setting may be changed. Press select button 2 to scroll from 00 to 23 . With the display showing the hour you wish to start Light Conservation, press select button 4. " mm " will start blinking, indicating the minute setting may be changed. Press select button 2 to scroll from 00 to 59 . With the display showing the minute you wish to start Light Conservation, press select button 4. The display will return to "HOUR". Press select button 1 to return to "STRT". Press select button 2 to scroll to "STOP".
"STOP" - Stop Light Conservation Setting (lights on)
This function is used to set the days and time to stop Light Conservation.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day To Stop Setting
This function is used to set the days of the week to stop Light Conservation and can be set in the same manner as Day to Start Setting.
"HOUR" - Stop Hour and Minute Setting
This function is used to set the hours and minutes to stop Light Conservation and can be set in the same manner as Start Hour and Minute Setting.
Press select button 1 to return to "STOP".
Press select button 1 to return to "LIT".
Press select button 2 to scroll to next routine.

## *"RFRG" - REFRIGERATION ROUTINE

This function is used to electronically control the refrigeration operations of the vender. Press select button 4 will enter "ENB\#" with \# showing the current "ENB" setting.

ENB\# - Energy Conservation Enable Routine
This function is used to disable Energy Conservation "ENBO" or enable Energy Conservation "ENB1". When enabled the cabinet temperature will be allowed to rise to the programmed storage level "STOR" during the following programmed time blocks.

Press select button 4 and the current "ENB\#" setting (\#) will start flashing.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid "ENB\#".
Press select button 2 to scroll to "STRT".
"STRT" - Start Energy Conservation
This function is used to set the days and time to start Energy Conservation when "ENB1" is selected.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day to Start Setting
This function is used to set the days of the week to start Energy Conservation.
Press select button 4 and "xxx\#: will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and \# is $0=$ disable, 1 = enable. With the display showing the day you wish to set press select button 4. The \# will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1". Press select button 4 with the display showing the setting you wish to use. Display will return to "xxx\#". Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".
"HOUR" - Start Hour and Minute Setting

## This function is used to set the hours to start Energy Conservation.

Press select button 4 and "hhmm" will show on the display, where " $h$ " is the hour (military time) and "mm" is the minute. "hh" will be blinking, indicating the hour setting may be changed. Press select button 2 to scroll from 00 to 23 . With the display showing the hour you wish to start Energy Conservation, press select button 4. "mm" will start blinking, indicating the minute setting may be changed. Press select button 2 to scroll from 00 to 59 . With the display showing the minute you wish to start Energy Conservation, press select button 4. The display will return to "HOUR".
Press select button 1 to return to "STRT".
Press select button 2 to scroll to "STOP".
"STOP" - Stop Energy Conservation Setting
This function is used to set the days and time to stop Energy Conservation when "ENB1" is selected.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day To Stop Setting
This function is used to set the days of the week to stop Energy Conservation and can be set in the same manner as Day to Start Setting.

"HOUR" - Stop Hour and Minute Setting<br>This function is used to set the hours and minutes to stop Energy Conservation and can be set in the same manner as Start Hour and Minute Setting.<br>Press select button 1 to return to "STOP".<br>Press select button 2 to scroll to "DEGX".

"DEGX" - Degree Fahrenheit / Celsius Setting Routine ( X is the current setting F or C )
This function is used to set the degree reading to Fahrenheit (DEGF) or Celsius (DEGC).
Press select button 4 and "DEGX", where the current setting $(X)$ will be blinking. Press select button 2 or 3 to scroll between DEGF and DEGC.
Press select button 4 with the display showing the setting you wish to use and the display will return to a solid "DEGX", or press select button 1 to keep the original setting before returning to the solid "DEGX" display.
Press select button 2 to scroll to "SETP".
"SETP" - $\quad$ Set Point Control Routine (Default Temperature $35^{\circ} \mathrm{F} / 1.5^{\circ} \mathrm{C}$ )
This function is used to set the average product temperature for initial pull down and reload recovery.
Press select button 4 and "tt.tx" will show on the display where $x$ is $F$ (Fahrenheit) or $C$
(Celsius) and tt.t is the degrees.
Press select button 2 to increase or 3 to decrease the number by $1^{\circ} \mathrm{F}$ or $0.5^{\circ} \mathrm{C}$. With the display showing the set point temperature you wish to use, press select button 4.
Pressing select button 1 while in this submenu will return to the "SETP" prompt and keep the original "SETP" setting.
Press select button 2 to scroll to "STOR".
"STOR" - Storage Setting Routine (Default Temperature $60^{\circ} \mathrm{F} / 15.5^{\circ} \mathrm{C}$ )
This function is used to set the temperature for product storage and is used when Energy Conservation is enabled.
Press select button 4 and "tt.tx" will show on display when $x$ is $F$ (Fahrenheit) or $C$ (Celsius) and $t t . t$ is the degrees.
Press select button 2 to increase and 3 to decrease the number by $1^{\circ} \mathrm{F}$ or $0.5^{\circ} \mathrm{C}$. With the display showing the storage setting you wish to use, press select button 4.
Pressing select button 1 while in this submenu will return to the "STOR" prompt and keep the original "STOR" setting.
Press select button 2 to scroll to "DSPX".
"DSPX" - POS Temperature Display Enable Routine
This function is used to enable the POS Temperature to be displayed following the "ICE COLD COCA COLA" POS message.
Press select button 4 and "DSPX" will show on the display where $x$ is the current setting. With " $X$ " blinking, press select button 2 or 3 to scroll between "DSPO" disabled or not displayed and DSP1 enabled or displayed. With the display showing the setting you wish to use, press select button 4.
Press select button 1 to return to "RFRG".
Press select button 2 to scroll to next routine.

## *"BLC1" - BLOCK SELECTION BANK 1 ROUTINE (CON 2 must be enabled - C2 1)

This function is used to set selections which will be blocked during certain periods of the day. Press select button 4 will enter "ENB\#" with \# being the current enable setting(0 or 1).
"ENB\#" - Blocking Enable Routine
This function is used to disable blocking "ENBO" or enable blocking "ENB1".
When enabled, active selections will not be allowed to vend on the days and times programmed.
Press select button 4 and the current ENB setting will flash.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use.
Display will return to a solid "ENB\#".
Press select button 2 to scroll to "STRT".
"STRT" - Start Selection Blocking Routine
This function is used to set the day(s) and time to start selection blocking when blocking is enabled ("ENB1").
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of Week Start Setting
This function is used to set the day(s) of the week to start selection blocking.
Press select button 4 and "xxx\#" will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and \# is $0=$ disable, 1 = enable.
With the display showing the day you wish to set press select button 4.
The \# will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1."
Press select button 4 with the display showing the setting you wish to use.

Display will return to "xxx\#'.
Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".
"HOUR" - Start Hour and Minute Setting
This function is used to set the hours and minutes to start selection blocking.
Press select button 4 and "hhmm" will show on the display, where hh is the hour (military time) and mm is the minute. "hh" will be blinking, indicating the hour setting may be changed.
Press select button 2 to scroll from 00 to 23 . With the display showing the hour you wish to start selection blocking, press select button 4. "mm" will then start blinking, indicating the minute setting may be changed.
Press select button 2 to scroll from 00 to 59 . With the display showing the minute you wish to start selection blocking, press select button 4 . The display will return to "HOUR".
Press select button 1 to return to "STRT".
Press select button 2 to scroll to "STOP".
"STOP" - Stop Selection Blocking Routine
This function is used to set the day(s) and times to stop selection blocking.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of Week Stop Setting
This function is used to set the days of the week to stop selection blocking and can be set in the same manner as Day of Week Start Setting.
"HOUR" - Stop Hour and Minute Setting
This function is used to set the hours and minutes to stop selection blocking and can be set in the same manner as Start Hour and Minute Setting.
Press select button 1 to return to "STOP".
Press select button 2 to scroll to "SEL".
"SEL" - Selection To Be Affected By Blocking
This function is used to set selection(s) which will be blocked during certain periods of the day. Press select button 4 and XX \# will be displayed, where XX is the selection number and \# is the current setting for the selection number displayed. $0=$ disabled, $1=$ enabled.
Press select button 2 or 3 to scroll to the select button number setting you desire to change.
Press select button 4 with the select button number showing you wish to change (i.e. 01\#) and the \# will start flashing.
Press select button 2 or 3 to scroll between xx 0 and xx 1 .
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display flashing the enable setting will keep the original setting.
Display will return to a solid XX \#.
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LITX".
"LITX" - Lighting / P.O.S. Display Control
This function is used to turn the lights (if supported) off during selection blocking period 1.
$0=$ disable or on; $1=$ enable or off.
Press select button 4 and the " X " will start flashing.
Press select button 2 or 3 to scroll between "LITO" and "LIT1".
Press select button 4 with the display showing the setting you wish to use to save the setting.
Press select button 1 with the display flashing the light setting will keep the original setting.
Display will return to "LITX".
Press select button 1 to return to "BLC1".
Press select button 2 to scroll to "BLC2".

## *"BLC2" - BLOCK SELECTION BANK 2 ROUTINE (CON 2 must be enabled - C2 1)

This function is a second set used to set selection(s) which will be blocked during certain periods of the day. Press select button 4 will enter "ENB\#" with \# being the current enable setting.
"ENB\#" - Blocking Enable Routine.
Set this function using instruction for "ENB\#" in "BLC1".
"STRT" - Start Selection Blocking Routine
This function is used to set the day(s) and times to start selection blocking.
Press selection button 4 and "DAY" will show on the display.
"DAY" - Day of Week Start Setting
Set this feature using instructions for "BLC1" "STRT" "DAY".
"HOUR" - Start Hour and Minute Setting
Set this function using instructions for "BLC1" "HOUR" "DAY".
"STOP" - Stop Selection Blocking Routine.
This function is used to set the day(s) and times to stop selection blocking.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of Week Stop Setting
Set this function using instructions for "BLC1" "STOP" "DAY".
"HOUR" - Stop Hour and Minute Setting
Set this function using instructions for "BLC1" "STOP" "HOUR".
Press select button 1 to return to "STOP".
Press select button 2 to scroll to "SEL".
"SEL" - Selection To Be Affected By Blocking
This function is used to set selection(s) which will be blocked during certain periods of the day.
Set this function using instructions for "BLC1" "SEL".
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LITX".
"LITX" - Lighting / P.O.S. Display Control
This function is used to turn the lights (if supported) off during selection blocking period 2.
Set this function using instructions for "BLC1" "LIT".
Press select button 1 to return to "BLC2".
Press select button 2 to scroll to "DISC".
*"DISC" - DISCOUNT SETTING ROUTINE (CON 2 must be enabled - C2 1)
This function is used to set the day(s) and times to allow discount prices.
Press select button 4 will enter "ENB\#" with \# being the current enable setting.
"ENB\#" - Discount Setting Enable Routine
This function is used to disable discounting "ENBO" or enable discounting "ENB1".
Press select button 4 and the current ENB setting will flash.
Press select button 2 or 3 to scroll between "ENB0" and "ENB1".
Press select button 4 with the display showing the setting you wish to use.
Display will return to a solid "ENB\#".
Press select button 2 to scroll to "STRT".
"STRT" - Start Discount Pricing
This function is used to set the day(s) and times to start discount prices.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of the Week Start Setting
Set this feature using instructions for "BLC1" "STRT" "DAY".

```
"HOUR" - Start Hour and Minute Settings
Set this feature using instructions for "BLC1" "STRT" "HOUR".
"STOP" - Stop Discount Pricing
This function is used to set the day(s) and times to stop discount prices.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day to Stop Setting
Set this feature using instructions for "BLC1" "STOP" "DAY".
"HOUR" - Stop Hour and Minute Setting
Set this function using instructions for "BCL1" "STOP" "HOUR".
"SEL" - Selection Affected by Discount Pricing
This function is used to set selection(s) which will be affected by discount prices.
Press select button 4 and "XX\#" will be displayed, whereXX is the selection number and \# is the current setting for the selection number displayed. \(0=\) disabled, \(1=\) enabled.
Press select button 2 or 3 to scroll to the select button number you desire to change.
Press select button 4 with the select button number showing you wish to change (i.e.01\#) and the \# will start flashing.
Press select button 2 or 3 to scroll between "XX 0" and "XX 1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display flashing the enable setting will keep the original setting.
Display will return to a solid XX \#.
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "LESS".
"LESS" - Discount Amount
This function is used to set the amount the price will be decreased for selection(s) and times set. Press select button 4 and "\#\#.\#\#" will be displayed, where "\#\#.\#\#" is the current discount that is set. Press select button 2 or 3 to change the discount amount(. 00 to 99.99 ).
Press select button 4 with the display showing the discount setting you wish to use to save that setting.
Press select button 1 with the display showing the discount setting will keep the original setting.
Display will show "LESS"..
Press select button 1 to return to "DISC".
Press select button 2 to scroll to "OVER".
```


## "OVER" - MANUAL SWITCH OVER-RIDE ROUTINE (CON 2 must be enabled - C2 1)

This function is used to allow a key switch to over-ride some of the settings stored for normal operations. This function can be programmed to control one or several of the following features: Free Vend Enable, Vend Enable, Selection Blocking, Discount Pricing, Lighting Control and Refrigeration Control.
Press select button 4 and the display will show "FRE\#".
Press select button 2 or 3 to scroll through the over-ride routines available.
Press select button 1 to return to "OVER".
"FRE\#" - Free Vend Enable Routine
This function is used to set the vender to Free Vend. $0=$ disable, $1=$ enable.
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "FREO" and "FRE1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Free Vend setting will keep the original setting.
Display will return to "FRE\#".
Press select button 2 to scroll to "UND\#".
"VND\#" - Vend Enable Routine
This function is used to set the vender to Override Vending. $0=$ disable (allow Vending), $1=$
enable (don't allow Vending).
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "UNDO" and "UND1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Vend Override setting will keep the original setting.
Display will return to "UND\#".
Press select button 2 to scroll to "BLC\#".
"BLC\#" - Selection Blocking Over-ride Routine
This function is used to over-ride "BLC1" and "BLC2" if they are being used. "BLCO" is disabled (allow BLC1 and BLC2), "BLC1" is enabled(don't allow BLC1 and BLC2).
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "BLCO" and "BLC1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Blocking Override setting will keep the original setting.
Display will return to "BLC\#".
Press select button 2 to scroll to "DSC\#".
"DSC\#" - Discounting Over-ride Routine
This function is used to over-ride "DISC" if it is being used. "DISC0" is disabled (allow Discounting) and "DISC1" is Enabled( don't allow Discounting).
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "DSC0" and "DSC1"
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Discounting Override setting will keep the original setting.
Display will return to "DSC\#".
Press select button 2 to scroll to "LIT\#".
"LIT\#" - Lighting Control Over-ride Routine
This function is used to over-ride "LIT'" if it is being used. "LITO" is disabled (allow Lighting Control) and "LIT1" is enabled (don't allow Lighting Control).
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "LIT0" and "LIT1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Lighting Control Override setting will keep the original setting.
Display will return to "LIT\#".
Press select button 2 to scroll to " FRG\#".
"FRG\#" - Refrigeration Control Over-ride Routine
This function is used to over-ride "RFRG'" if it is being used. "FRG0" is disabled (allow
Refrigeration Control) and "FRG1" is enabled (don't allow Refrigeration Control).
Press select button 4 and "\#" will start flashing.
Press select button 2 or 3 to scroll between "FRG0" and "FRG1".
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display showing the Refrigeration Control Override setting will keep the original setting.
Display will return to "FRG\#".
Press select button 1 to return to "OVER".
Press select button 2 to scroll to "SDEP".
"SDEP" - SET COLUMN DEPTH ROUTINE (CON 2 must be enabled - "C2 1" - This must be set before

## setting package type to "CUSTOM")

This function is used to set the product depth for the selected column.
Press select button 4 and the display will show "XX \#" where XX is the column number and \# is the product depth for that column..
Press select button 4 and the \# (depth) will flash.
Press select button 2 or 3 to set the product depth $(1-5)$.
Press select button 4 to accept the displayed depth, or select button 1 to keep the original depth.
Press select button 2 or 3 to scroll through the columns available.
Repeat setting the depth for remaining columns.
Press select button 1 to return to "SDEP".
Press select button 2 to scroll to "RVND".

## *'RVND" - REMOTE VEND MECHANISM ROUTINE

This function is used to set the day(s) and times to activate the vend operation in a satellite vending device. Press select button 4 will enter " STRT.
"STRT" - Start Satellite Vending Operation
This function is used to set the day(s) and times to start satellite vending.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of Week Start Setting
This function is used to set the day(s) of the week to start satellite vending.
Press select button 4 and "xxx\#" will show on the display, where xxx will be the day of the week (i.e. MON, TUE, WED, THU, FRI, SAT, SUN, ALL) and \# is $0=$ disable, 1 = enable.
With the display showing the day you wish to set press select button 4.
The \# will start blinking. Press select button 2 or 3 to scroll between "xxx0" and "xxx1."
Press select button 4 with the display showing the setting you wish to use.
Display will return to "xxx\#'.
Press select button 2 to scroll to the next day to set or press select button 1 to return to "DAY".
Press select button 2 to scroll to "HOUR".
"HOUR" - Start Hour and Minute Setting
This function is used to set the hours and minutes to start satellite vending.
Press select button 4 and "hhmm" will show on the display, where hh is the hour (military time) and mm is the minute. " hh " will be blinking, indicating the hour setting may be changed.
Press select button 2 to scroll from 00 to 23 . With the display showing the hour you wish to start selection blocking, press select button 4. "mm" will then start blinking, indicating the minute setting may be changed.
Press select button 2 to scroll from 00 to 59 . With the display showing the minute you wish to start selection blocking, press select button 4. The display will return to "HOUR".
Press select button 1 to return to "STRT".
Press select button 2 to scroll to "STOP".
"STOP" - Stop Satellite Vending Operation
This function is used to set the day(s) and times to stop satellite vending.
Press select button 4 and "DAY" will show on the display.
"DAY" - Day of Week Stop Setting
This function is used to set the days of the week to stop satellite vending and can be set in the same manner as Day of Week Start Setting.
"HOUR" - Stop Hour and Minute Setting

This function is used to set the hours and minutes to stop satellite vending and can be set in the same manner as Start Hour and Minute Setting.
Press select button 1 to return to "STOP".
Press select button 2 to scroll to "SEL".
"SEL" - Selection To Be Affected By Satellite Vending
This function is used to set selection(s) which will be cause a satellite vending operation during certain periods of the day.
Press select button 4 and XX \# will be displayed, where XX is the selection number and \# is the current setting for the selection number displayed. $0=$ disabled, $1=$ enabled.
Press select button 2 or 3 to scroll to the select button number setting you desire to change.
Press select button 4 with the select button number showing you wish to change (i.e. 01\#) and the \# will start flashing.
Press select button 2 or 3 to scroll between xx 0 and xx 1 .
Press select button 4 with the display showing the setting you wish to use to save that setting.
Press select button 1 with the display flashing the enable setting will keep the original setting.
Display will return to a solid XX \#.
Press select button 1 to return to "SEL".
Press select button 2 to scroll to "RATE".
" RATE " - Satellite Vend Rate
This function is used to set the number of vends from the programmed selection that will occur before a satellite vend operation is done( rate $=3$, every third vend from a programmed selection will cause a satellite vend to be done).
Press select button 4 and "XXX" will be displayed, where "XXX" is the current satellite vend rate. Press select button 2 or 3 to change the vend rate ( $0-255$, a vend rate of 0 will disable the remote vend operation).
Press select button 4 with the display showing the vend rate setting you wish to use to save that setting.
Press select button 1 with the display showing the vend rate setting will keep the original setting. Display will show "RATE"..
Press select button 1 to return to "RVND".
Press select button 2 to scroll to "PACG".

## *"PACG" - PACKAGE TYPE SETTING ROUTINE

This function is used to set the package type for any or all columns in the vending machine.
Press select button 4 will enter " XX \#", where XX is the column number and \# is the current package type.
Press select button 2 or 3 to scroll through the column numbers or "ALL" for all columns
Press select button 4 and \# will flash allowing the package type to be selected.
Press select button 2 or 3 to scroll through the package types ( $1-5$ or "C" for custom).
Press select button 4 to accept the displayed package type or select button 1 to keep the current package type. If package type is " 1 " through " 5 " go to ""SAVE" will be displayed" instructions.

## "ANGL" - CUSTOM ANGLE SETTING ROUTINE

If Custom package type is selected "ANGL" is displayed. Press select button 1 to exit without setting angles, or select button 4 to enter angle setting routine.
" 1 " is displayed for product position 1 . Select buttons 2 and 3 will scroll up or down through the product depth set for that column in the "SDEP" menu. IF "SDEP" ISN'T SET BEFORE SETTING A CUSTOM PACKAGE TYPE, THE DEPTH WILL DEFAULT TO THE DEPTH FOR THE LAST PACKAGE TYPE.

## Press select button 4 at the position prompt and "Hxxx" will be displayed with the xxx flashing, this is the hold angle for the product position last displayed

Press select button 2 or 3 to scroll the hold angle setting up or down ( $0-359$ ). Press select button 4 to accept the displayed angle.
"Vxxx" will be displayed, this is the vend angle for the last product position displayed.
Press select button 2 or 3 to scroll the vend angle setting up or down $(0-359)$. Press select button 4 to accept the displayed angle.
Press select button 1 after the angles have been set for all the product positions.

## COMMON PACKAGE SETTING INSTRUCTIONS RESUME HERE

"SAVE" will be displayed.
Press select button 1 to keep the current package type and "XX \#" will be displayed.
Press select button 4 to save the package type selected and "PRM\# " will be displayed, where \# is the column to prime.
Press select button 1 to bypass the prime operation and return to the "XX \#" display.
Press select button 4 to prime the indicated column. "PRM" will be displayed while the column is being primed.
"XX \#" will be displayed.
Press select button 1 to return to " PACG ".
Press select button 2 to scroll to "RTN ".
"RTN" - RETURN TO SALES MODE
Press select button 4 will exit Service Mode and return to Sales Mode.

P SERIES SBC QUICK REFERENCE MENU PROMPTS


Select Button 1: Abort/Cancel (will return to previous menu prompt or to normal door open mode).
Select Button 2: Scroll up (forward in menu).
Select Button 3: Scroll down (backward in menu).
Select Button 4: Enter/Save/Clear (allows you to enter a specific prompt, save what you have programmed, or clear the error prompts).

## Setting The Vender Type

## NORMAL MODE:

Note: If "COLS" "" appears on the display on power up with the door open, you will need to program the vender model number in the controller. To program with "COLS" on the display press select button 4 . The display will show " 6 " for six columns. Press select button 2 to scroll through available number of columns in the machine. When the displayed number of columns matches the number of columns in the machine, press select button 4 to set the number of columns. "MODL" will appear on the display, press select button 4. The display will show the first available model number for the current vender type. Press select button 2 to scroll through the available vender model numbers for this vender. When the vender type you wish to save is showing on the display, press select button 4 . The display will scroll " $4=$ SET PACKAGE TYPE; $1=$ EXIT". Press select button 4 and the display will show "ALL2" with the 2 flashing. This will allow you to set the package type of the machine if it is different that the default of package type 2. Press select button 2 to scroll through the available package types. Press select button 4 to set the displayed package type, and the display will show "SAVE". Press button 4 to save the package type. "PRM1" will appear on the display. Press button 4 to prime column 1 or select button 1 to skip priming column 1. The display will then display "PRM2". Repeat the priming process until all columns have been primed or skipped. The controller will return to normal door open operating mode.

The following are Non-Coca-Cola model numbers:
6 column machines
DN552-5,
DN552-6,
DN552-7,
7 column machines
DN532-5,
DN532-6,
DN532-7,
8 column machines
DN756-7,
DN756-8,
DN756-9,
DN756-10,
DN756-11,
DN756-12,
DN756-13,
DN756HV-12,
10 column machines
DN760-9,
DN760-10,
DN760-11,
DN760-12,
DN760-13,
DN760HV-12,
DN760-13,

The following are Coca-Cola model numbers:

## 6 column machines

DN552-5,
DN552-6,
DN552-7,
DN552-8,
7 column machines
DN532-5,
DN532-6,
DN532-7,
DN532-8,
8 column machines
DN756-7,
DN756-8,
DN756-9,
DN756-10,
DN756-11,
DN756-12,
DN756-13,
10 column machines
DN760-9,
DN760-10,
DN760-11,
DN760-12,

Factory Default Setting


| Selection \# | Column \# |
| :---: | :---: |
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 2 |
| 5 | 3 |
| 6 | 4 |
| 7 | 5 |
| 8 | 6 |

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

## POWER

The vender must be connected to a dedicated 120VAC, 15 Amp circuit (U.S. and Canada).

CAUTION:
REMOVE POWER TO THE VENDER PRIOR TO CONNECTING / DISCONNECTING ANY ELECTRICAL COMPONENTS FOR TESTING OR REPLACEMENT.

## CLEANING



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

## SIGN FACE

The polycarbonate sign face requires proper cleaning to prolong its service life. Periodically clean the sign as follows:

1. Rinse the sign with a soft cloth or sponge soaked in warm water.
2. If necessary, use a mild soap to loosen any dirt or grime. DO NOT SCRUB or use a brush or squeegee. Scrubbing may cause damage to signs with a clear ultraviolet resistant coating (prevents yellowing).
3. Repeat the above steps as necessary. To prevent spotting, dry the sign using a soft cloth.

## CABINET

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

## DRAIN PAN

1. Check the drain pan periodically for dirt, debris, and proper alignment. Clean as needed
2. Ensure nothing obstructs the drain tube and drain hose.

## REFRIGERATION CONDENSER

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


## COIN ACCEPTOR

- Follow the coin acceptor manufacturer's cleaning instructions.


## LUBRICATING THE VENDER

| Time | Component | Lubricant Example |
| :--- | :---: | :--- |
| Every 6 months <br> (or as needed) | Main Door <br> 1. Lock Bolt \& Nut <br> Retainer <br> 2. Hinge Pivot Points | Mechanics Friend |
| Every Year <br> (or as needed) | I. Hinge Pivot Points <br> Inner Door | Mechanics Friend |
|  | 1. Door Gasket Friend |  |

## SBC Single Board Controller Software Update Procedure

This document describes how to update software on the Single Board Controller (SBC). Note: All existing software revisions, except software version 804,919,770.01, will automatically update the software revision $804,919,870.01$ or higher upon installation. For SBC boards using 804,919,770.01 software menu programming is required to manually update the software.
Important: EPROM's containing software is sensitive to Electrostatic Discharge (ESD). Failure to handle the EPROM carefully could cause damage, which may result in a failed Single Board Controller (SBC).

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 DAMMAGE THE EPROMS LEGS.

## ALWAYS TURN POWER OFF BEFORE REMOVING OR INSTALLING EPROMS IN THE CONTROL BOARD.

Note: Use the SBC programming manual to program a vender that has a Single Board Controller (SBC) installed. I. EPROM removal

- Power down the Vender. Ground yourself on the vender cabinet before removing the EPROM from the ESD tube or control board.
- If the EPROM is present in the SBC, remove the existing EPROM from the SBC.
- Note: An EPROM does not need to be in the board after the SBC has been programmed. The EPROM can be used to reprogram other boards.
- Verify the pins of the new EPROM are not bent before installing in the EPROM socket.
- 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. See Figure 1.
II. Automatic Reprogramming (all software revisions except 804,919,770.01)
- Turn power on to Vender. When auto-updating, the display will remain blank while the red LED on the board blinks rapidly for 3-4 seconds. Verify the new software version is shown on the display. If the new software version (the software version of the newly installed EPROM) displays, the SBC software has been successfully updated. If not, verify the EPROM is seated properly, with the reference marker oriented correctly and follow instructions for manual update if updating from $804,919,770.01$. If problems still exist, contact the Dixie-Narco Technical Service Department.

Note: To remove the EPROM after programming is complete turn power off, ground yourself on the vender cabinet before removing the EPROM, remove the EPROM, turn power on, test vender for proper operation.
III. Manual Reprogramming (all $804,919,770.01$ or if an EPROM does not automatically reprogram the SBC)

- At power up, the current software version will be displayed. To manually program the control board with the new software, press the blue service switch on the SBC to enter the service menu. Advance to the "Auto Test" menu by holding buttons 1\& 2 simultaneously. Enter Auto Test by pressing button 1, and advance to the "Reprogramming Microprocessor" submenu by holding buttons 1\& 2 simultaneously.
- At the "Reprogramming Microprocessor" prompt, press button 1. "THIS OPERATION REPROGRAMS VENDOR" shows on the display. Press button 1 at this prompt. Next display will show "BUTTON 2 = REPROGRAM, BUTTON $3=$ EXIT".
- Press button 2 to reprogram vender with the new software. "Reprogramming Vendor..." displays while the red LED on the board blinks rapidly for $3-4$ seconds. Verify the new software version, and previous settings return to the display. If the new software version (the software version of
the newly installed EPROM) shows on the display, the SBC software has been successfully updated.

Note: To remove the EPROM after programming is complete, 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 SBC, power the vender back on and test for proper operation.


Figure 1 - EPROM REPLACEMENT (SAMPLE BOARD SHOWN)


## ELECTRICAL

| Transformer | Provides 24 volt and 12 volt power to the Machine Controller |
| :---: | :---: |
| Fuse (F1) | 1.6 Amp Slo Blo Control Board Power (includes display and MDB Peripherals) |
| Fuse (F2) | 6 Amp Slo Blo Motor Power Fuse |
| Relay | ```Potter & Brumfield T91P5D52-24 240 VAC / 20 A-NO / 10A- NC``` |
| Choke | $\begin{aligned} & \text { Foster } \\ & \text { A-16015 } \\ & 5 \mathrm{MH} 6 \mathrm{~A} \end{aligned}$ |

## REFRIGERATION

| 115 VAC |  |
| :---: | :---: |
| Compressor | Embraco, 1/3 HP, 115 <br> VAC, 60 Hz <br> 1 Phase <br> Unit uses 9.0 oz. of 134A <br> Refrigerant |
| Start Relay | 115 VAC, 1.351.605 |
| Start Capacitor | $\begin{aligned} & 115 \text { VAC } \\ & 233-280 \text { MFO / } 165 \mathrm{~V} \end{aligned}$ |
| Thermal Overload | 115 VAC <br> MRT 22AF2-5598 |
| Condenser Fan | 16W Motor 115 VAC 5KSM81FFL 3022T Blade - 8-3/4" dia. |
| Evaporator Fan | 6.5W Motor 115 VAC OSM 2045X1 Blade-6" dia. |



SBC CONTROL BOARD

| P1 | Motor |
| :--- | :--- |
| P2 | Secondary DEX |
| P3 | Display |
| P4 | Select Switches |
| P5 | Temp Sensor |
| P7 | MDB |
| P8 | Energy Management |
| P10 | Sold Out LED's |
| P11 | Ready to Vend |
| J1 | AC Power |
| J2 | DEX |
| B1 | Battery |

These charts are intended to isolate and correct most problems you might encounter.

## ALL COINS ARE REJECTED



## ALL BILLS ARE REJECTED



INCORRECT CHANGE DISPENSED


## SELECTION WILL NOT VEND



## ICE / FROST ON EVAPORATOR



COMPRESSOR WILL NOT START


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

## MACHINE NOT COOLING



## CAN'T ENTER THE MENU OR DIAGNOSTICS

## Note: Prior to checking wires or connections, ensure power has been removed from

 vender.

## LIGHTS ARE NOT ON



# ONE OR MORE MOTORS RUN WHEN MAIN DOOR IS CLOSED (Display Scrolls "PRIM") 



## SOLD OUT



THE DISPLAY IS DEAD


CAN'T READ THE DISPLAY



## Refrigeration Circuit Diagrams




MAIN DOOR EXTERIOR

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Main Door Assembly P Series LMV - 8 | 642,053,20x.x3 |
| 2 | Door Weld Assembly | 642,053,50x.x3 |
| 3 | Trim, Side (Vertical) 69 1/8" | 642,050,53x.x3 |
| 4 | Trim, Top/Bottom (Horizontal) 25.19" | 642,050,55x.x3 |
| 5 | Trim, Center (Vertical) 56.94" | 642,050,54x.x3 |
| 6 | Trim, Center (Horizontal) 15.19" | 642,050,56x.x3 |
| 7 | Port Trim Spacer, Weld Assembly | 642,050,00x.x3 |
| 7A | Port Trim | 000552 |
| 7B | Port Spacer | 000551 |
| 8 | Delivery Port Assembly | 642,052,80x.x3 |
| 9 | Cash Box Shelf Weld Assembly | 642,054,00x.x3 |
| 10 | Cash Box Weld Assembly | 642,054,10x.x3 |
| 10A | Cash Box Lock Kit | 432,011,50x.x4 |
| 11 | Assembly Transaction and Coin Insert Panel | 642,050,60x.x3 |
| 11A | Assembly Stud Transaction and Coin Insert Panel | 000460 |
| 12 | T Handle Assembly | 801,518,20x.x1 |
| 13 | Push Button Coin Return | 801,807,25x.x1 |
| 14 | Display Lens | 801,810,67x.x1 |
| 15 | Assembly Panel 8 Select/Port | 642,051,70x.x3 |
| 15A | Assembly Stud Panel 8 Select/Port | 642,051,40x.x3 |
| 16 | Bracket, Light Mount | 624,051,38x.x3 |
| 17 | Top Bulkhead | 642,050,36x.x3 |
| 18 | Bottom Bulkhead | 642,050,37x.x3 |
| 19 | Protective Plate Main Door | 165,150,33x.x3 |
| 20 | Add Window with Black Border | 803,870,22x.x1 |
| 21 | Rain Guard, Black | 169,050,34x.x3 |
| 22 | Closure Strip | 609,050,14x.x3 |
| 23 | Plate, Filler Bill Validator | 624,050,93x.x3 |
| 24 | Label, Money Removed Daily (Not Shown) | 903,805,70x.x1 |
| 25 | Label, Warning Do Not Tilt (Not Shown) | 803,868,29x.x1 |
| 26 | Label, Universal Ribbon 8 Select/Port | 803,872,05x.x1 |
| 27 | Label, Universal Ribbon Transaction/Coin Insert | 803,869,69x.x1 |
|  |  |  |

MAIN DOOR INTERIOR


## MAIN DOOR INTERIOR

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Door Weld Assembly | 642,053,50x.x3 |
| 2 | Protective Plate Main Door | 165,15033x.x3 |
| 3 | Rain Guard, Black | 169,050,34x.x3 |
| 4 | Change Cup Chute | 642,050,42x.x3 |
| 5 | Top Bulkhead | 642,050,36x.x3 |
| 6 | Bottom Bulk Head | 642,050,37x.x3 |
| 7 | Assembly Ballast Cover | 642,052,90x.x3 |
| 8 | Gasket "L" Profile 26" | 803,601,11x.x1 |
| 9 | Bracket T8 Light | 624,051,38x.x3 |
| 10 | Brace | 642,050,39x.x3 |
| 11 | Assembly Coin Return | 642,054,20x.x3 |
| 11A | Coin Return Rocker | 642,050,66x.x3 |
| 11B | Coin Return Rocker Extension | 642,050,67x.x3 |
| 11C | Coin Return Rocker Bracket | 624,051,26x.x3 |
| 11D | Coin Return Button (see Page 55) | 801,807,25x.x1 |
| 12 | T Handle Bolt Cover | 642,050,41x.x3 |
| 13 | Coin Chute Assembly Vault Door | 642,053,80x.x3 |
| 14 | Change Cup | 801,810,14x.x1 |
| 15 | Latch, Vault | 801,304,53x.x1 |
| 16 | Vault Hinge | 901,502,41x.x3 |
| 17 | Inner Door Lock Plate | 642,050,03x.x3 |
| 18 | Cover, Security Bill Validator | 642,050,01x.x3 |
| 19 | T Handle Body | 801,518,18x.x1 |
| 20 | Spring | 901,700,63x.x1 |
| 21 | Assembly Coin Chute Cash Box | 642,053,90x.x3 |
| 22 | Cash Box Shelf Weld Assembly | 642,054,00x.x3 |
| 23 | Vault | 642,050,38x.x3 |
| 24 | T Handle Shim | 805,701,24x.x1 |
| 25 | Door Switch | 804,100,77x.x1 |
| 26 | Assembly Coin Insert Chute Transaction Panel | 642,054,30x.x3 |
| 27 | Gasket, Note Acceptor | 902,001,11x.x1 |
|  |  |  |



| ITEM | DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Assembly Transaction \& Coin Insert Panel (includes T Handle Assembly) | 642,050,60x.x3 |
| 2 | T Handle Assembly Flush Mount | 801,518,20x.x1 |
| 2A | T Handle | 801,518,14x.x1 |
| 2B | T Handle Flange | 801,518,18x.x1 |
| 2 C | T Handle Stud | 801,518,17x.x1 |
| 2D | External Retaining Ring | 801,507,34x.x1 |
| 2 E | Flat Washer | 901,503,06x.x1 |
| 2 F | Cross Pin | 901,503,09x.x1 |
| 2G | Spring | 901,503,05x.x1 |
| 2 H | Spring | 901,508,18x.x1 |
| 21 | T Handle Shim | 805,701,14x.x1 |
| 2 J | Spring Conical Coin Return | 801,701,22x.x1 |
| 3 | T Handle Bolt Cover | 642,050,41x.x3 |
| 4 | Assembly Coin Chute, Vault | 642,053,80x.x3 |
| 5 | Assembly Coin Return | 642,054,20x.x3 |
| 5A | Extension Coin Return Rocker | 642,050,67x.x3 |
| 5B | Bracket Coin Return Rocker | 624,051,26x.x3 |
| 5C | Button, Push Coin Return | 801,807,25x.x1 |
| 5D | Coin Return Rocker | 642,050,66x.x3 |
| 5E | Roller Pin | 900,502,19x.x1 |
| 5 F | Roller Pin Retainer | 900,900,90x.x1 |
| 5G | Coin Return Spring | 901,700,63x.x1 |
| 6 | Assembly Coin Insert Chute Transaction Panel | 642,054,30x.x3 |
| 7 | Vault | 642,050,38x.x3 |
| 8 | Latch Access Door | 801,304,53x.x1 |
| 9 | Carriage Bolt, $1 / 420 \times 1 / 2$ | 900,201,45x.x1 |
| 10 | Hinge, Changer Guard Door | 901,502,41x.x1 |
| 11 | Hex nut $1 / 4-20$ | 900,800,67x.x1 |
| 12 | Screw, 8-18x1/2 SD Phil Pan | 900,301,50x.x1 |
| 13 | Screw, 8-32x1/4 Phil Pan | 900,301,97x.x1 |
| 14 | Hex Nut 8-32 | 900,800,50x.x1 |
| 15 | Label, Precaution Access Door | 803,833,04x.x1 |

## SELECT PANEL

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Select Panel Assembly, 8 Select | $642,051,70 x . x 3$ |
| 2 | Assembly Stud Select Panel/Port - 8 | $642,051,40 \times . x 3$ |
| 3 | Select Switch, SBC | $804,100,74 x . x 1$ |
| 4 | Select Button | $801,810,62 x . x 1$ |
| 5 | Switch Insulator | $801,812,17 x . x 1$ |
| 6 | Select Button Stop | $805,700,58 \times . x 1$ |
| 7 | Screw \#4 - 24 X 3/4 Phil Pan | $900,300,47 x . x 1$ |
| 8 | Hex Nut \# 8 -32 | $900,800,50 \times . x 1$ |
| 9 | Select Button Retainer | $624,050,12 x . x 3$ |



## T8 LIGHTING

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Ballast T8 | $804,400,61 \mathrm{x} . \mathrm{x} 1$ |
| 2 | Lighting Harness 3-T8 | $804,921,07 \mathrm{x} . \mathrm{x} 1$ |
| 3 | Fluorescent Lamp Boot | $802,001,44 \mathrm{x} . \mathrm{x} 1$ |
| 4A | Top Lampholder T8 Leviton 518 Push | $804,918,58 \mathrm{x} . \mathrm{x} 1$ |
| 4B | Lamp Holder T8 Leviton 13153-OLN with nut <br> Twist | $804,921,91 \mathrm{x} . \mathrm{x} 1$ |
| 5 | Bottom Lampholder T8 Leviton 519 Push | $804,918,59 \mathrm{x.x1}$ |
| 6A | Lamp Socket (4) Push | $642,050,68 \mathrm{x} . x 3$ |
| 6B | Lamp Socket (2) Twist | $642,050,69 \mathrm{x} . x 3$ |
| 7 | T8 Lamp, 4' (3) | $804,700,76 \mathrm{x} . x 1$ |
| 8A | Lamp Socket Shield Twist | $801,819,12 \mathrm{x} . x 1$ |
| 8B | Lamp Socket Shield Push | $801,819,13 \mathrm{x} . x 1$ |



ELECTRONIC COMPONENTS

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Control Board Assembly SBC | 640,010,00x.x3 |
| 2 | Display Board 14 Segment | 804,914,11x.x1 |
| 3 | Transformer | 000114 |
| 4 | Fuse 1.6 Amp (F1) | 804,800,71x.x1 |
| 5 | Fuse, 6 Amp Fast Acting (F2) | 804,910,93x.x1 |
| 6 | Controller Cover - Not Shown | 801,306,16x.x1 |
| 7 | Label, Fuse - Not Shown | 803,857,06x.x1 |
| 8 | SBC Eprom Control Board | 804,919,77x.x1 |
| 9 | Rain Curtain, Control Board - Not Shown | 801,904,23x.x1 |
| 10 | Battery, 3V Lithium (CR2032) - Not Shown | 804,920,45x.x1 |




## INNER DOOR

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :---: | :---: |
|  | Inner Door Assembly | 640,050,80x.x3 |
| 1 | Inner Door Gasket | 801,819,05x.x1 |
| 2 | Sub Assembly Inner Door | 640,050,90x.x3 |
| 3 | Label, STS/Package Set Up | 803,871,38x.x1 |
| 4 | Gate, Front Product Positioner | 801,819,15x.x1 |
| 5 | Discharge Frame Retainer | 801,809,15x.x1 |
| 6 | Assembly Discharge Frame | 801,809,16x.x1 |
| 6a | Discharge Door | 801,809,17x.x1 |
| 6b | Frame, Discharge | 801,809,14x.x1 |
| 6c | Rod, Hinge (Not Shown) | 801,401,70x.x1 |
| 7 | Carriage Bolt $114-20 x^{1 / 4}$ | 900,201,23x.x1 |
| 8 | Screw, SD Phil Pan Sems 8 - 18 1/2 | 900,301,65x.x1 |
| 9 | Pull Knob | 901,501,70x.x1 |
| 10 | Inner Door Bushing (Bearing) | 801,806,42x.x1 |
| 11 | Bushing Retainer (Not Shown) | 801,806,43x.x1 |
| 12 | Plastic Bearing (Not Shown) | 901,803,71x.x1 |
| 13 | Top Inner Door Hinge (Not Shown) | 169,053,00x.x3 |
| 14 | Bottom Inner Door Hinge (Not Shown) | 169,051,10x.x3 |
| 15 | Inner Door Lock Kit | 360,010,30x.x4 |

## HARNESSING

Single Board (SBC)

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Motor Harness (6 Motor Stack) | $804,920,99 x . x 1$ |
| 2 | Board Power Harness (includes transformer) J1 | 000114 |
| 3 | Harness, P Series 44" Door | 000110 |
| 4 | Harness, MDB 25" | $804,920,83 x . x 1$ |
| 5 | Harness, Select Door LMV8 | $804,921,09 x . x 1$ |
| 6 | $66 "$ DEX Harness | $804,907,83 x . x 1$ |
| 7 | Display Harness (P3 to display board) | $804,919,57 x . x 1$ |
| 8 | Secondary DEX Harness | $804,913,97 x . x 1$ |
| 9 | MDB and Lock Power Harness (P7) | $804,919,57 x . x 1$ |
| 10 | Harness, Relay Power Distribution | $804,920,96 x . \times 1$ |
| 11 | Harness, Power Distribution (In) | $804,920,98 x . x 1$ |
| 12 | Harness, Power Distribution (Out) | $804,920,97 x . x 1$ |
| 13 | Harness, AC Distribution | $804,921,15 x . x 1$ |
| 14 | Harness, AC Dist Extended | 000113 |
| 15 | Harness, Door Switch Extended | $804,921,01 x . x 1$ |
| 16 | Power cord, Detachable | $804,917,28 \times . \times 1$ |
| 17 | Evaporator Fan Harness - 3 | $804,921,73 x . x 1$ |



| P1 | Motor |
| :--- | :--- |
| P2 | Secondary DEX |
| P3 | Display |
| P4 | Select Switches |
| P5 | Temp Sensor |
| P7 | MDB |
| P8 | Energy Management |



Fuse 1.6 Amp 804,800,71x.x1


## CABINET AND VEND MECHANISM

## (Section 1)

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Cover, Hinge Pocket | 631,051,07x.x3 |
| 2 | Weld assembly Top Hinge (Main Door) | 642,050,35x.x3 |
| 3 | Kit, Door Hinge | 642,053,40x.x3 |
| 4 | Hinge, Spacer | 169,000,15x.x3 |
| 5 | Bearing, Hinge - Pin less | 805,300,42x.x1 |
| 6 | Bolt, Carriage $1 / 4-20 \times 11 / 4$ (3) | 900,201,23x.x1 |
| 7 | Bolt, Carriage 5/16-18 $\times 1$ 1/4 (1) | 900,201,85x.x1 |
| 8 | Screw, Phil Pan $8-18 \times 1 / 2$ (1) | 900,301,50x.x1 |
| 9 | Screw, Hex Tap 1/4-20 x 1 (2) | 900,301,73x.x1 |
| 10 | Sleeve, bottom hinge | 900,502,64x.x1 |
| 11 | Hex Nut $1 / 4$ - 20 | 900,800,67x.x1 |
| 12 | Nut, Hex Jam 5/16-18 | 900,801,02x.x1 |
| 13 | Block, Foam | 903,300,77x.x1 |
| 14 | Hinge, Bottom (Main Door) | 642,051,80x.x3 |
| 15 | Stack Supports (Not Shown) | 639,070,26x.x3 |
| 16 | Foam Cabinet Assembly | 640,060,10x.x3 |
| 17 | Skid board $347 / 8$ " | 805,410,19x.x1 |



## CABINET AND VEND MECHANISM

## (Section 2)

| ITEM | DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Assembly Rear Spacer Narrow | 000164 |
| 2 | Vend Motor - Narrow Column | $804,501,23 x . x 1$ |
| 3 | Vend Motor - Wide Column | 000908 |
| 4 | Vend Motor Cover | $640,070,06 x . x 3$ |
| 5 | Assembly Rear Spacer Wide | 000615 |
| 6 | Stack Assembly 6 Column | $640,070,90 x . x 3$ |
| 7 | Screw, Phil Pan 8-32x1 (12) | 000065 |



## CABINET

| ITEM | DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Plate, Protective Left Side (Specify Color) | 594,020,14x.x3 |
| 2 | Plate, Protective Right Side Cabinet (Specify Color) | 165,000,04x.x3 |
| 3 | Caterpillar Grommeting | 801,809,93x.x1 |
| 4 | Mullion | 000076 |
| 5 | Mullion Cap | 801,818,92x.x1 |
| A4 | Screw, Phil Pan 8-18x1/2 | 900,301,50x.x1 |
| A5 | Screw, Phil Pan Swage Form \#8-32x1/4" | 900,301,97x.x1 |
| A9 | Screw, Phil Pan 8-32x3/8 | 900,301,56x.x1 |
| A10 | Screw, Machine \#6-32x1 1/4" | 900,201,31x.x1 |
| A14 | Screw, Phil Pan 10-32x1 1/4 | 900,301,81x.x1 |
| A16 | Screw, Phil Pan Sems 8-18x1/2" | 900,301,65x.x1 |
| A17 | Screw, Type F 1/4-20x5/8 (Stack Bolts) | 900,302,01x.x1 |
| A19 | Screw, Phil Pan 10-32x5/8 | 900,901,51x.x1 |
| A21 | Screw, Phil Pan 8-18x1/2 | 900,301,98x.x1 |
| A26 | Screw, Phil Pan 8-18×3/4 | 800,303,15x.x1 |
| B2 | Hex Nut 1/4"-20 | 900,800,67x.x1 |
| C6 | Lockwasher, Shakeproof 5/8" (1132-00-00-0551), Leveling Leg | 900,700,89x.x1 |
| C8 | Washer, Shakeproof (4610-16-01-0551) | 900,700,62x.x1 |
| E9 | Carriage Bolt 1/4-20x5/8 | 800,303,19x.x1 |
| F1 | Pop Rivet, Aluminum 1/4" | 901,100,43x.x1 |
| F5 | Pop Rivet, Steel (Zinc Plated) 1/8" | 901,100,61x.x1 |
| F6 | Pop Rivet, Aluminum 1/8" | 901,100,53x.x1 |
| H2 | Tinnerman Clip, Fan Shroud (C5207-014-3B) | 900,901,.89x.x1 |
| H7 | Hole Plug, Snap In - $11 / 4$ | 801,807,01x.x1 |
| 16 | Clamp, Nylon 5/16 White Heyco 3555 or Dennison 10159 | 800,902,51x.x1 |
| 17 | Clamp, Nylon 1/2" Heyco 3328 | 900,901,80x.x1 |

VEND MECHANISM - ROTOR

| ITEM | DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Load Bar - steel | $801,306,59 x . x 1$ |
| 2 | Vend Rotor - Narrow Column | 000002 |
| 3 | Nyliner, .750 | 000018 |
| 4 | Nyliner, .312 | 000019 |
| 5 | Bushing, .312 (Load Bar) | 000020 |
| 6 | Push Arm | 000062 |
| 7 | Front Gate Extension (Narrow) | $639,070,14 x . x 3$ |
| 8 | Screw, Phil Pan 8-32x1 | 000065 |
| 9 | Vend Motor Assy., Narrow (Electronic) | $804,501,23 x . x 1$ |
| 10 | Spring - Push Arm | 000539 |



## VEND MECHANISM OSCILLATOR

| ITEM | DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Nyliner, .750 | 000018 |
| 2 | Screw, 8-32 $\times 1$ Phil Pan | 000065 |
| 3 | Front Gate Extension, Wide | $639,070,13 x . \times 3$ |
| 4 | Vend Motor Assy., Wide (Electronic) | 000908 |
| 5 | Vend Oscillator - Wide Column | $801,201,73 \times . \times 1$ |
| 6 | Package Retainer - Oscillator | $801,807,87 \times \times 1$ |



## REAR SPACERS

| ITEM | PART DESCRIPTION | DN552P |
| :---: | :--- | :---: |
|  | Assembly Rear Spacer, Narrow | 000164 |
| 1 | Bracket Rear Spacer, Narrow | 000071 |
| 2 | Spacer Rear Narrow | $639,070,27 x . x 3$ |
| 3 | Guide Channel | 000926 |
| 4 | Latch, Rear Spacer | 000927 |
| 5 | Assembly Guide Arm | 000936 |


|  | Assembly Rear Spacer, Wide | 000615 |
| :---: | :--- | :---: |
| 11 | Rear Spacer, Wide | 000614 |
| 12 | Latch Spring Wide | $901,700,87 \mathrm{x} . \times 1$ |



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## CHUTE ASSEMBLY

| ITEM | PART DESCRIPTION |  |
| :---: | :--- | :---: |
|  | Chute Assembly | $640,070,20 x \cdot x 3$ |
| 1 | Chute | $640,070,08 x \cdot x 3$ |
| 2 | Liner, Chute | $640,070,12 x . x 3$ |
| 3 | Sensor Plate Assembly | 000644 |
| 4 | Sensor Support Plate | 000645 |
| 5 | Bracket, Chute | 000658 |
| 6 | Housing Vend Sensor Board | 000888 |
| 7 | Board, Vend Sensor | 000902 |
| 8 | Cover, Sensor Housing | 000937 |
| 9 | Standoff | $801,903,80 x . x 1$ |
| 10 | Screw, 8-32 x 3/8 Phil Pan Type 1 | $900,301,56 x . x 1$ |
| 11 | Screw, 8-32 Phil Pan, Swageform | $900,301,97 x . x 1$ |
| 12 | Elastic Stop Nut \#8-32 | $900,800,51 x \cdot x 1$ |
| 13 | Rivet 1/8 Steel Zinc Plate | $901,100,61 x . x 1$ |
| 14 | Jumper, Vend Sensor Board | 000919 |



EVAPORATOR FAN ASSEMBLY


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## EVAPORATOR FANASSEMBLY

| ITEM | DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Harness, Evaporator Fan | 804,921,73x.x1 |
| 2 | Evaporator Fan Motor Assy. 115V/60Hz | 640,040,30x.x3 |
| 3 | Bracket, Evaporator Fan Motor | 640,040,06x.x3 |
| 4A | Bracket, Evaporator Fan Panel Left Hand | 640,040,08x.x3 |
| 4B | Bracket, Evaporator Fan Panel Right Hand | 640,040,07x.x3 |
| 5 | Sub Assembly Evaporator Fan Shroud - 3 | 640,040,02x.x3 |
| 6 | Screw, Phil Pan 8-18 x 1/2" | 900,301,50x.x1 |
| 7 | Hex Nut \#10-32 | 900,800,65x.x1 |
| 8 | Tie, 5.5 " Hand | 901,901,06x.x1 |
| 9 | Bushing, $3 / 4$ " split Heyco | 901,902,17x.x1 |
| 10 | Screw, Sems Phil Pan $8-32 \times 3 / 8$ | 800,303,42x.x1 |
| 11 | Strip, Poly Foam 24.5" (under chute) "Air Stop" (Not Shown) | 803,301,38x.x1 |
|  |  |  |
| 21 | Fan Bracket, Evaporator | 640,040,06x.x3 |
| 22 | Evaporator Fan Motor 115V 3000 RPM 0.5 Amp | 804,501,25x.x1 |
| 23 | Blade, Fan 6.0" CW (4 blade plastic) | 801,818,88x.x1 |
| 24 | Speed Nut (Evaporator fan) (Not Shown) | 900,800,85x.x1 |

## REFRIGERATION SYSTEM



## REFRIGERATION SYSTEM <br> (SECTION ONE)

| ITEM | DESCRIPTION |  |
| :---: | :---: | :---: |
|  |  |  |
|  | Model 3000C-E Kit 115V/60Hz | TBD |
|  | Model 3000C-E Refrigeration Unit 115V | 640,040,50x.x3 |
| 1 | Base Plate | 639,040,02x.x3 |
| 2 | Condenser, 1.33 FPI | 802,600,69x.x1 |
| 3 | Assembly, Heat Exchanger | 640,040,00x.x3 |
| 4 | Fan Blade, Condenser (FV900CW30S) | 801,306,65x.x1 |
| 5 | Assembly, Condenser Fan Motor 115/60 | 804,501,24x.x1 |
| 6 | Tube Discharge | 640,040,04x.x3 |
| 7 | Shroud, Condenser | 640,040,02x.x3 |
| 8 | Label, Name Plate 115/60 | 803,872,04x.x1 |
| 9 | Tube, Evaporator - Accumulator Adapter | 491,040,19x.x3 |
| 10 | Solder, Silver 30\% | 802,300,04x.x1 |
| 11 | Accumulator | 802,400,46x.x1 |
| 12 | Dryer,. 054 Extended outlet, 134A | 802,401,29x.x1 |
| 13 | Capacitor End Cap, Bottom Hole | 802,501,18x.x1 |
| 14 | Compressor E FFI12HBX 115/60 | 802,501,74x.x1 |
| 15 | Cover, Embraco (1.355.504 short) | 802,501,86x.x1 |
| 16 | Bracket, Capacitor | 802,501,87x.x1 |
| 17 | Overload, MRT 22AFZ-5598 | 802,502,10x.x1 |
| 18 | Relay, 1.351.605 | 802,502,13x.x1 |
| 19 | Capacitor, Start 233-280 MFD/165V | 802,502,21x.x1 |
| 20 | Evaporator, Short | 802,600,37x.x1 |
| 21 | Freon, Refrigerant, 134a | 802,700,06x.x1 |
| 22 | Tube, 1/4 OD x . 028 W, Copper | 803,000,39x.x1 |
| 23 | Screw, Brass 6-32x1/4 | 900,201,44x.x1 |
| 24 | Screw, 8-32x3/8 | 900,301,56x.x1 |
| 25 | Screw, Phil Flat Head 10-32x1/2 | 900,301,94x.x1 |
| 26 | Nut, Speed | 900,800,85x.x1 |
| 27 | Clip, Spring | 900,901,88x.x1 |
| 28 | Plug, Compressor Grommett | 901,803,91x.x1 |
| 29 | Grommet, Compressor | 902,000,57x.x1 |
| 30 | Silencer | 902,100,29x.x3 |
| 31 | Solder, 0\% Silver Brazing Allow | 902,600,52x.x1 |
| 32 | Label, 134a Recoverable Substance | 903,833,54x.x1 |
| 33 | Terminal | 904,601,36x.x1 |
| 34 | Lead, Compressor (harness) | 904,900,61x.x1 |
| 35 | Rubatex, 27" (Not Shown) | 640,040,12x.x3 |
| 36 | Drain Pan Assembly with Fiberglass Soakers (Not Shown) | 805,800,71x.x1 |
| 37 | Soakers, Fiberglass (14 required) (Not Shown) | 905,800,69x.x1 |
| 38 | Ingress Guard | 000455 |
| 39 | Drain Tube | 801,806,05x.x1 |
| 40 | Drain Tube Nut | 900,301,79x.x1 |
| 41 | Drain Hose | 901,900,50x.x1 |
| 42 | Drain Hose Clamp | 900,901,03x.x1 |
| 43 | Power Cord (Detachable) | 804,917,28x.x1 |
| 44 | Temperature Sensor Encapsulated (Not Shown) | 000115 |

MISC. LABELS

| ITEM | DESCRIPTION | DN552P |
| :---: | :---: | :---: |
| 1 | Labels |  |
|  | Price Label Sheet .50-1.25 | 903,857,37x.x1 |
|  | Coke Programming 3.0 (English) | 803,871,11x.x1 |
|  | STS/Package Set-Up Label Domestic | 803,871,38x.x1 |
|  | Warning: Do Not Tilt | 803,868,29x.x1 |
|  | 134A Removable Substance | 903,833,54x.x1 |
|  | Money Removed Daily | 903,805,70x.x1 |
|  | Label, Warning Disconnect Main Power cord | 803,868,02x.x1 |
|  | Label, Main Power | 803,860,85x.x1 |
|  | Skid Removal | 903,828,70x.x1 |
|  | Coin Mechanism Label | 903,901,30x.x1 |
|  | Fuses F1-Amp, F2-6A | 803,843,91x.x1 |
|  | Fuse, 1.6 Amp | 804,800,71x.x1 |
|  | Label, 1.6 Amp Fuse | 803,868,03x.x1 |
|  | Mercury Notice Label | 803,860,59x.x1 |
|  | Notice - No Refund Label | 803,860,53x.x1 |
|  | Motor Cover Label, Power Disconnect | 803,857,01x.x1 |
|  | Label, Upper Refill Narrow Column | 000249 |
|  | Label, Upper Refill Wide Column | 000250 |
|  | Label, Lower Refill Narrow Column | 000252 |
|  | Label, Lower Refill Wide Column | 000253 |
|  | Kit, ID Number Labels -7 (1-7) | 615,000,10x.x4 |
| 2 | Wiring Diagram Generic - 7 Select | 803,871,49x.x1 |
| 3 | Technical Manual | 803,903,78x.x1 |

DOMESTIC SIGNS \& SIDE DECALS
(Contact Parts Department for any not listed)

| ITEM | DESCRIPTION | DN552P |
| :---: | :--- | :---: |
| 1 | Side Decals - Universal Ribbon '03 | $803,869,76 x . x 1$ |
|  |  |  |
| 2 | Sign - Universal Ribbon '03 | $805,033,17 x . x 1$ |

## SCREWS \＆NUTS

（A2）


（A4）
（A3）
吴
（A6）

（A7）
雲
（A）

（A8）
（A14）


（417）


（A20）

（421）


（B7）

## SCREWS \& NUTS

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





(H7)
(E3)


(E1)


(17)

(F1)
(O)
(12)


## 

(D2)

(13)

WASHERS, BOLTS, \& MISC. HARDWARE

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


| ITEM | PART NUMBER | PART NAME AND DESCRIPTION |
| :---: | :---: | :---: |
| 15 | 901,901,89x.x1 | Clamp, Cable 1" Heyco 3390 |
| 16 | 900,901,79x.x1 | Clamp, Nylon 5/16" Black Heyco 3355 or Dennison 10159 |
| 17 | 900,901,80x.x1 | Clamp, Nylon 1/2" Heyco 3328 |
| 18 | 901,901,06x.x1 | Hand Tie, x.x" |
| 19 | 901,902,01x.x1 | Wire Tie, $71 / 2^{\prime \prime}$ |
| 10 | 901,901,00x.x1 | Wire Ties, 4" |
| 11 | 901,900,55x.x1 | Clamp, Nylon 3/4" Heyco 3382BL |
| 12 | 901,902,83x.x1 | Cable Tie, x.x" |
| 13 | 900,902,14x.x1 | Canoe Clip \#254-090-301-00-0108 |

