Technical Manual

Pepsi-Cola High Visibility Vender

P-SERIES HVV

Models DN504PHV-6 & DN720PHV-12

Beginning Production Run 7675AE

Manufactured by

CRANE
Dixie Narco Vending Systems

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APPLICATION

This information applies to 504 & 720 P-Series venders manufactured the first quarter 2006 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 504 & 720 P-Series was March 2006.
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 yyyyzz-xxxx.The last 4 digits (xxxx) 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.

A = 1st quarter
B = 2nd quarter
C = 3rd quarter
D = 4th quarter

The second alpha-character identifies the year:

E = 2006
F = 2007
G = 2008
H = 2009
I = 2010

PHYSICAL CHARACTERISTICS

	504P	**720P**
HEIGHT	**72”**	**72”**
WIDTH	**28”**	**36”**
DEPTH	**33.5”**	**33.5”**
DEPTH WITH VALIDATOR	**N/A**	**N/A**
SHIPPING WEIGHT	**678 lbs.**	**833 lbs.**
LOADED WEIGHT 4 DEEP 12OZ CANS	**1153 lbs**	**1512lbs**

Model	**Number of Selections**	**Number of Narrow Columns**
504P	6	7
720P	12	10

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 1½" "socket type" wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.

WARNING

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

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 VAC, 60 Hertz). The cabinet serial plate also indicates the Amperage of the vender. The vender must be plugged into its own properly rated, single phase alternating current outlet with its own circuit protection (fuse/circuit breaker).
DO NOT USE AN EXTENSION CORD.

POWER SUPPLY CORD and GROUNDING REQUIREMENTS

In accordance with the National Electrical Code and Underwriters Laboratories Inc., beginning April 10, 2006 all domestic vending machines are equipped with a three-wire power supply cord and Ground Fault Circuit Interrupter (GFCI). The GFCI device is provided as part of the power supply cord and is either incorporated directly into the plug or mounted on the cord adjacent to the plug.

WARNING

- The GFCI protects against current leakage caused by ground faults. The GFCI is not designed to protect against over current or short circuits.
- **DO NOT** use the TEST and RESET buttons on the GFCI as an ON/OFF switch.

- The vending machine supply cord **MUST** be plugged directly into a properly grounded, 3 wire receptacle that is properly protected by a fuse or circuit breaker. If the receptacle will not accept the power cord plug, it must be replaced with a properly grounded, 3 wire receptacle in accordance with the National Electrical Code and Local Codes and Ordinances. The work should be done by a qualified electrician. **DO NOT USE A 3 WIRE TO 2 WIRE ADAPTOR**

DO NOT REMOVE THE GROUND PIN ON THE PLUG OR IN ANY WAY BYPASS, MODIFY, DEFEAT, OR DESTROY THE GROUNDING SYSTEM OF THE VENDING MACHINE

- **DO NOT USE WITH AN EXTENSION CORD.**
- **DO NOT REMOVE THE WARNING TAG ATTACHED TO THE POWER SUPPLY CORD.**
- The GFCI must be tested frequently and before each use in accordance with the instructions provided on the GFCI device. **IF THE GFCI DOES NOT PASS THE TEST, DO NOT USE THE MACHINE**. Unplug the supply cord from the receptacle and call the Dixie-Narco

Technical Support Group for assistance at 1-803-266-5001.

It is recommended that the machine be located so that the GFCI device will be accessible after the machine is installed. After installation, visually inspect the GFCI and power supply cord to be sure it is not crushed, pinched, or stretched.

Protect the power supply cord during transportation and use. Periodically inspect the power supply cord for damage. If the cord or plug is worn or damaged, it must be replaced with a power supply cord of the same type, size and specification as originally provided with the machine. **DO NOT USE THE VENDING MACHINE UNTIL THE WORN OR DAMAGED CORD IS REPLACED.**

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

PLACING THE VENDER ON LOCATION

!! CAUTION !!

DO NOT TRANSPORT THE VENDER TO OR FROM THE LOCATION LOADED WITH PRODUCT OR 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. 1512 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 Dixie-Narco Technical Service Department or your Dixie-Narco Representative for assistance.

ELECTRONIC DOOR LOCK (OPTION)

The electronic lock when provided in the vender consists of a door mounted, motor driven bayonet (shaft) system, a cabinet mounted nut receptacle switch system, an infrared controlled CPU, and a remote control key (FOB). The design is modular and allows for easy field service.

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

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

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

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

TO OPEN THE ELECTRONIC DOOR LOCK: (OPTION)

1. Plug the vender into a properly powered outlet.
2. Hold the key FOB 0 to 3 inches to the right side of select button #10 in 12 select or select button #5 in 6 select and press the button on the key FOB.
   Note: The wide end of the FOB should face the door.
3. The lock will begin releasing the door. The display will indicate "**Door Opening".** After the motor has stopped running, you can pull the door open. The display will indicate: "**Door Unlocked"**.

TO CLOSE THE ELECTRONIC DOOR LOCK:

CAUTION: DO NOT SLAM THE DOOR CLOSED.
Slamming the door closed can damage the electronic locking device.

1. Push the door to the cabinet until the lock motor starts. The display will indicate: "**Door Closing"**.

2. Continue to push the door for approximately 2 to 3 seconds after the lock motor starts. The lock will pull the door closed tightly.
3. When the lock motor stops the door will be locked and the display will indicate**: "Door Locked"**.
   Before leaving the vender, ensure that the door is locked.

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

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

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 DIXIE-NARCO TECHNICAL SERVICE DEPARTMENT OR YOUR DIXIE-NARCO 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 from 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

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 OF 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 NBM-3000 Series, NBU-2111-12
- 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 Service Mode. Advance to **"Fill Coin Mech"** mode in the **"Cash Settings"** menu in Programming.
Load the coin mechanism with coins by inserting coins in the coin mech's separator. The display will show the total value of coins 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 columns are set to vend the proper packages. When loading the narrow columns, lay the first row of packages 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 and the proper operation of the Vend Sensor, ***DO NOT*** place packages (or other foreign objects) in the bottom of the tank.

SERVICE NOTE

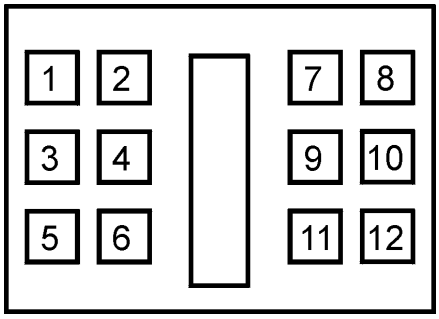
Battery Backup (SBC)
The Single Board Controller is equipped with a battery backup which is used to retain information programmed in the system (pricing, time, date, etc.) in case of power interruptions or any time the main power is off. When the vender is shipped, the battery is connected and memory is being maintained.

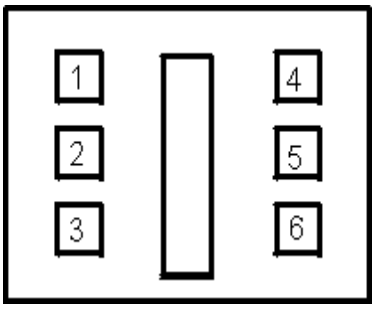
Disconnect the battery if the vender will be stored for a long period of time. The following steps will guide you through this procedure.

- 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).

SBC
PROGRAMMING METHOD
AUGUST 2003

P-SERIES
HVV





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

NORMAL MODE:
In Normal Mode, on power up display will show the software version installed in vender for 10 Seconds, then change to "**Ice Cold Drink"** message, **Product Price**, **"Sold Out"**, **Credit Value**, or decimal point. If the right most decimal is flashing, this indicates an error or problem recognized in the vender. When money is inserted, the display indicates the total amount of the deposit. The select buttons are used to select the product. In normal mode you may access an external menu for reading historical sales total, product total, product total by selection, sales by price totals, and machine temperature.

Note: If **"Enter Number of Columns"** appears on the display on power up with the door open, you will need to program the vender model number in the controller. Refer to Setting the Vender Type on page 25.

SERVICE MODE:
The Service Mode is entered when the vender door is open and the service switch is pressed. The display will show a list of error codes for errors that have occurred since the door was last opened. **"Jammed Column #"** is a vend mechanism jammed, **"Select Switch #"** is a select switch problem, **"Refrigeration"** is a refrigeration or temp sensor problem, **"Vend Sensor"** is a Vend Sensor problem and **"Door Switch"** is a door switch open problem. To acknowledge an error, press select button 1, at this time you will enter the service menu. The display will show **"Historical Data"** at this time. Some of the menu items have sub-menus.
To move through the menus and sub-menus follow these instructions. To:

MOVE THROUGH MENU:	Press select buttons 1 & 2 simultaneously to scroll down through the menu. While scrolling down through menu, release for 2 seconds, press select buttons 1 & 2 simultaneously to scroll up through menu.
ENTER SUB-MENU:	Press and hold select button 1 to enter a sub-menu.
EXIT SUB-MENU:	With **"Return"** on display, press and hold select button 1 to exit a sub-menu.

EXIT SERVICE MODE:
Closing the inner door, pressing button 1 when **"Return"** is displayed at the top menu level, or a five-minute inactivity time-out will exit the service mode.

FRONT PANEL PROGRAMMING
SERVICE MENU

Historical Data

This function shows the user the vender accounting over the life of the vender. Use the following select buttons to view the total sales in dollars, total number of vends and the total number of vends for each selection.

Press Select Button 1: Shows the historical total cash sales for the life of the vender.
Press Select Button 2: Shows the historical total number of vends.
Press Select Button 3: Shows the historical number of vends by selection. Each selection automatically scrolls across the display.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Resettable Data

This function shows the user the vender accounting data since the last counter reset. This data can be reset either from the menu or by DEX interrogation.

Press Select Button 1: Shows the total cash collected since the last counter reset
Press Select Button 2: Shows the total number of vends since the last counter reset.
Press Select Button 3: Shows the total number of vends by selection since the last counter reset. Each selection automatically scrolls across the display.
Press Select Button 4: This button zeros the interval data described above. Hold select button "4" for 5 seconds, "the display will go blank" then **"Counters Reset"** will be displayed. At this time, all interval data will return to **"0"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Set Price

This function is used to set the price of each selection. When a select button is pressed, the price for that selection will be displayed. If the button is held in, the price will increment or decrement. To change from increment to decrement, release the select button and press it again. To set all selections for the same price: set the desired vend price on select #1, then simultaneously press and hold buttons 3 & 4, the price set for select #1 will be displayed. After 5 seconds the display will show **"Single Price Set"**, this will change the vend price of all selections, both primary and secondary, to the price programmed to button #1.

Note: The SBC multi-pricing capability allows you to set all the selections to any price in the range of $0.00 to $99.95.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Cash Settings

This function is used to configure credit handling rules for the vender. To move to **"User Menu"**, press & hold select buttons 1 & 2 simultaneously. Press button 1 to enter **"Cash Settings"** Menu. The following are sub-menus of the Cash Settings: "**Fill Coin Mech", "Dump Coin Mech", "Coin Rules", "Escrow", "Multi Vend",** and "**Return"**.

Fill Coin Mech:

This function is used to count coins loaded in the top (separator) of the coin mech. When "**Fill Coin Mech"** is displayed the coin mech will accept tubed coins. When the first coin is inserted, "**Fill Coin Mech"** will be replaced with the cash value of coins in the coin tubes. The total value of the coins inserted will be displayed and will be counted in the DEX audit data, so the controller knows exactly how much change is in the coin mech. Press select button 1 to return to **"Fill Coin Mech"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Dump Coin Mech:

This function is used to dump coins from the coin mechanism. Press select button #1 to enter **"Dump Coin Mech"** mode and the lowest coin value dispensable will show on the display. Press and hold select buttons 1 & 2 simultaneously to scroll through the different coin values available to dump coins. Press and hold select button #1 to dump the coins whose value is shown on the display. Press and hold select buttons 1 & 2 simultaneously until **"Return"** shows on the display. Press select button #1 will return to **"Dump Coin Mech"**.

If a level 3 coin mech with Alternate Payout mode is installed, the coin mech will stop dispensing coins when the coin mech's coin count reaches 0.

Coin Rules:

This condition is used to allow the exact change condition to be turned on or off. When **"Off"** the controller will not go into an exact change condition. This will allow bills or coins to be accepted regardless of the ability to pay back non-refundable currency. When turned **"On"**, the controller will set the exact change condition based on the ability to pay back non-refundable currency (i.e. Coins, paper). To show current condition press select button 1. Press and hold select button 1 to toggle **"Coin Rules" "On"** and **"Off"**.

Escrow:

This function supports 4 (four) escrow options. Pressing select button 1 will show the current escrow setting. Press and hold select button 1 to scroll through the available Escrow options and set the escrow mode to the setting displayed when select button1 is released.

"Price 1"
This escrow condition is forced vend option 1 ("Escrow to Price"). All dollar bills will be stacked. No cancel sale is allowed once minimum vend price is met or exceeded.

"Price 2"
This escrow condition is forced vend option 2 ("Escrow No Cancel") with all bills stacked, and no cancel sale allowed unless the vender is in exact change and the maximum vend price is exceeded. Note: Any money entered below the vend price cannot be returned.

"Select 4"
This escrow condition is "Escrow to Select" with all the dollar bills being stacked. Cancel sale will return the deposit from the coin changer (i.e.4 quarters).

"Select 1"
This escrow condition is "Escrow to Select Dollar Bills" with the last dollar bill that meets or exceeds maximum vend price being escrowed in the validator. Cancel sale will return the held dollar bill and any amount over $1 will be returned from the coin changer.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Multi Vend:

This function, when turned on, allows credit to be retained after a vend so the customer can vend from another selection. (i.e..50 vend price, put in $1.00, push a select button and vends, .50 still shows on the display, push a second select button and vends). Credit is cancelled after 5 minutes of inactivity. There is unlimited acceptance. If a customer wants their credit (money) back, the coin return lever must be pressed. To show the current **"Multi Vend"** condition, press select button 1 and the display will show the current setting. Press and hold button 1 to toggle **"Multi Vend" "On"** and **"Off"**.

Press and hold select buttons 1 & 2 simultaneously to move to **"Return"**.

Return:

Press and hold button 1 to return to **"Cash Settings"**.

User Menu:

This function is used to configure the vender to operate in a fashion best suited for the vender location. To move to **"Diagnostics"**, press & hold select buttons 1 & 2 simultaneously, to enter the **"User Menu"** sub-menus press select button1. The following are sub-menus of the **"User Menu"** for a machine with AC motors: **"Space To Sales"**, **"Column"**, **"Time", "Language", "Electronic Counter", "Limited Access", "Secondary Price", "Environmental Controls", "Light", "Refrigeration", "Free Vend", "Override", "Sales Message", "Recharge",** and **"Return"**. The **"Column"** sub-menu prompt will only be available in machines with DC motors.

Space To Sales

To view the space to sales condition, press select button 1 and display will show **"Selection 1"**. Alternating with columns assigned to that select button. Press select buttons 1 & 2 simultaneously to scroll through the available select buttons to view columns assigned and **"Return"**.

To change space to sales:

Press select button 1 at the **"Selection #"** prompt and **"Column ## #"** (column edit routine) will be displayed, where the ## is the column to be added or deleted to the select button and the third # is **"0"** for not assigned or **"1"** for assigned to that selection. Press select button 1 with **"Column ## #"** on the display to toggle between **"Column ## 0"** and **"Column ## 1"**. With the setting you wish to use showing on the display, press select buttons 1 & 2 to scroll to next selection to add/delete columns. Press select button 1 at the **"Return"** prompt when selecting columns to enable, will return to **"Selection #"**. Press select button 1 at the **"Return"** prompt when choosing what selection to set for Space to Sales, will return to **"Space to Sales"**.

Note: You must be in the **"Selection"** prompt to get to the **"Return"** mode that scrolls to **"Space To Sales"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Column - This prompt only appears on machines with DC motors.

Select this prompt to set column depth, package type and vend angles if the package type is custom. This will scroll through the list of **Columns 1--- 9, "ALL" or "Return"** to select what column(s) will have its settings changed. Pressing button 1 will display **"Column # "** where # represents the column number.
Pressing select buttons 1 & 2 simultaneously will scroll through the columns.
Press select button 1 to scroll to **"Package"**

"Package" - is the next prompt. Press select buttons 1 & 2 simultaneously after entry into this sub-menu will toggle between **"Package"** and **"Return"**. Selecting **"Package"** allows setting the package type for the column selected in the column prompt. Pressing select button 1 will show current package setting. (i.e.**1, 2, 3, …, Custom, and Return**). Press select buttons 1 & 2 simultaneously to scroll through the package settings.
Press select button 1 to select the package type.

If a predefined package type(1, 2, 3, 4, or 5) is selected

After the package type has been selected, **"Key 1 = Prime, Key 2 = Exit"** will be displayed. Press button 1 to prime the column with product or button 2 to exit without priming the column. If select button 2 is pressed the column will be marked as jammed and will prime when the door is closed.

"Hold Angle" - **Will only be displayed if the package type selected is "custom"**.

This allows setting the hold angle for the column selected in the column prompt. Press select button 1 to display the current hold angle **"Hold Angle ###"**. Press select buttons 1 & 2 simultaneously to increase the Hold Angles Number. Release and Press Selection Buttons 1 and 2 again to decrease the Hold Angle Number. Press select button 1 to select the displayed hold angle. **"Depth"** will be displayed after the hold angle is set.

"Depth" - **Will only be displayed if the package type selected is "custom"**.

This allows setting the product depth for the column selected in the column prompt. The current product depth **"Depth #"** is displayed when select button 1 is pressed. Press select buttons 1 & 2 simultaneously to scroll through available product depths (1-5). Press select button 1 to select the displayed depth.

"Vend Angle" - **Will only be displayed if the package type selected is "custom"**.
This allows setting the vend angles for the column selected in the column prompt. "**Vend Angle # ###**" will be displayed where the first # is the product number in the column and ### is the Vend Angle Number for that product. The user will be prompted to enter same number of vend angles as was entered at the **"Depth"** prompt. After the last vend angle is entered the display will show **"2 = Exit, 1 = Prime"**. Press button 1 to prime the column with product or 2 to exit with out priming the column. If select button 2 is pressed the column will be marked as jammed and will prime when the door is closed.

Return
Pressing select button 1 will return to **"Column#"**

Press and hold select buttons 1 & 2 simultaneously to move to the next item on the menu

Time

This function is used to set the year, month, day, hour/minute (military 24 hour clock), and daylight savings time. Press select button 1 and **"Year"** will show on display. Press select buttons 1 and 2 simultaneously to scroll through all **"Time"** sub-menus.

"**Year**"- Year Setting (2000 to 2099)
Press select button 1 the current year setting will show on display.
Press and hold select button 1 to increment the year setting (2000 to 2099).
Release select button 1 and press and hold again will decrement the year setting.
Release the select button with the display showing the year you wish to use and display will return to **"Year"**.
Press select buttons 1 & 2 simultaneously to scroll to **"Month"**.

"**Month"** - Month Setting (01 to 12)
Press select button 1 and the current 2-digit month setting will show on display.
Press and hold select button 1 to scroll through the month settings. (01 = Jan. to 12 = Dec).
Release the select button with the display showing the month you wish to use and display will return to **"Month".**
Press select buttons 1 & 2 simultaneously to scroll to **"Day"**.

"**Day**" - Day of Month Setting (1 to 31)
Press select button 1 and the current 2-digit day of month setting will show on display.
Press and hold select button 1 to scroll through the day of month settings (1 to 31).
Release select button 1 and press and hold again will decrement the day of month setting.
Release the select button with the display showing the day of month setting you wish to use and display will return to **"Day"**.
Press select buttons 1 & 2 simultaneously to scroll to **"Hour/Minute"**.

"**Hour/Minute"** - Hour and Minute Setting (0000 to 2359)
Press select button 1 and the current 4-digit hour and minute setting will be displayed (24 hour).
Press and hold select button 1: Set Hours
Press and hold select button 2: Set Minutes
Press select buttons 1 & 2 simultaneously to move to "**Daylight Savings Time"** menu.

Daylight Savings Time
Press select button 1 and the current setting will show on the display.
Press and hold select button 1 to scroll through the **"Daylight Savings Time"** options listed:

"American" – 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.

"European" – 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.

"Australian" – 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.

"Off" – Off Rules – Daylight savings time change will not be made.

Release the select button with the display showing the **"Daylight Savings Time"** setting you wish to use and display will return to **"Daylight Savings Time"**.
Press and hold select buttons 1 & 2 simultaneously to move to "Return".

Return:
Press select button 1 to return to **"Time"**.

Language

This function is used to set the language that will be used for sales mode messages. To display the current language selected, press select button 1. To change the language selected, press & hold select button 1 to scroll through the language menu. Once the desired language is shown on the display, release the button. The display will then return to **"Language"**.

English	**Spanish**
French	**Slovene**
German	**Finnish**
Italian	**Norwegian**
Portuguese	

Press and hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Electronic Counter

This function is used to set the four (4) button code that will show historical cash sales, historical total vends, historical product counts by selection, historical product counts that have occurred for prices, and cabinet temperature when the vender is in sales mode. Press select button 1 to view the current four (4) button code.

To change **"Electronic Counter"** four button code:
At **"Electronic Counter"** press select button 1, **"####"** (representing current four button code) will show on display (**"4231"** is the factory default code). Press and hold select button 1 until the far left digit is replaced by an **"*"** indicating it can be changed. Press the select button desired for the first digit of the code. The next digit will be replaced by an **"*"** press the select button desired for that digit of the code. Continue this process until all 4 digits are set. After the last digit is entered the display will return to **"Electronic Counter"**
Note: The four-button code used must be select buttons 1 through 9 only.

Enter the four button code while in sales mode to view the data. Once entered the listed data is available from the front of the vender:

Press select button 1: Show historical cash sales.
Press select button 2: Show historical total vends.
Press select button 3: Show historical product counts by selection.
Press select button 4: Show historical cash sales by selection
Press select button 5: Show temperature inside the cabinet.
Press select button 6: Returns to sales idle mode (sales vender operation).

Note: There is a thirty (30) second time-out that will return the vender to sales mode if no select buttons are pressed.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Limited Access

This function is used to program the vender to use the Limited Access Features. To move to "**Secondary Price Menu"** press & hold select buttons 1 & 2 simultaneously, to enter the sub-menu press Select Button 1. The following are sub-menus of the Limited Access Menu: **"Selects", "Days", "Start 1", "Stop 1", "Start 2", "Stop 2",** and **"Return"**.

Selects

This function is used to set selection(s), which, will be limited during certain periods of the day. To view the selection setting condition, press select button 1. The display will show **"Selects## #"** where ## is the selection number and # is a **"0"** or **"1"** depending on whether the selection is enabled (1) or disabled (0). Press and hold select button 1 to toggle between **"0"** & **"1**". Press select buttons 1 & 2 simultaneously to scroll through all available select buttons, **"NONE", "ALL",** and **"Return"**. Pressing select button 1 when **"ALL"** is" displayed will cause the display to change to **"On"** when all selections have been enabled. Pressing select button 1 when **"NONE"** is" displayed will cause the display to change to **"Off"** when all selections have been disabled. Press select button 1 at the **"Return"** prompt returns to **"Selects"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Days

This function is used to set the days of the week to be affected by limited access.

Day of Week:	**Sunday**	**Wednesday**	**Saturday**	**Return**
	Monday	**Thursday**	**All Days**	
	Tuesday	**Friday**	**No Days**	

Press select button 1 and **"Monday #"** will show on the display, where # is **"0"** (disable) or **"1"** (enable). Press and hold select button 1 to toggle between **"0"** and **"1"**. Release the select button with the display showing the setting you wish to use. Press select buttons 1 & 2 simultaneously to scroll through all available days, **"All Days"**, **"No Days"**, and **"Return"**. Pressing select button 1 when **"ALL Days"** is displayed will cause the display to change to **"On"** when all days have been enabled. Pressing select button 1 when **"No Days"** is displayed will cause the display to change to **"Off"** when all days have been disabled. Press select button 1 at the **"Return"** prompt returns to **"Days"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Start 1

This function is used to set the hours and minutes to start period 1 limited access. Press select button 1 and the current four-digit hour and minute setting will to be displayed (24 hour).
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Stop 1
This function is used to set the hours and minutes to stop period 1 limited access. Press select button 1 and current four-digit hour and minute will be displayed. (24 hour).
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Start 2
This function is used to set the hours and minutes to start period 2 limited access. Press select button 1 and the current four-digit hour and minute setting will be displayed (24 hour).
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Stop 2
This function is used to set the hours and minutes to stop period 2 limited access. Press select button 1 and the current four-digit hour and minute setting will be displayed (24 hour).
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Return
Press select button 1 to return to **"Limited Access"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Secondary Price

This function is used to program a second price for each selection. To move to **"Environmental Controls**", press & hold select buttons 1 & 2 simultaneously. To enter the sub-menu press select button 1. The following are sub-menus of the Secondary Price Menu: **"Price", "Days", "Start", "Stop"**, and **"Return"**.

Price
This function is used to set the price of each selection. When a select button is pressed, the price For that selection will be displayed. If the button is held in, the price will increment or decrement. To change from increment to decrement, release the select button and press it again.
Note: The SBC multi-pricing capability allows you to set all selections to any price in the range of $0.00 to 99.95.

Press & and hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Days
This function is used to set the days of the week to be affected by secondary pricing.

Day of Week:	**Sunday**	**Wednesday**	**Saturday**	**Return**
	Monday	**Thursday**	**All Days**	
	Tuesday	**Friday**	**No Days**	

Press select button 1 and **"Monday #"** will show on the display, where # is **"0"** (disable) or **"1"** (enable). Press and hold select button 1 to toggle between **"0"** and **"1"**. Release the select button with the display showing the setting you wish to use. Press select buttons 1 & 2 simultaneously to scroll through all available days **"All Days"**, **"No Days"**, and **"Return"**. Pressing select button 1 when **"ALL Days"** is displayed will cause the display to change to **"On"** when all days have been enabled. Pressing select button 1 when **"No Days"** is" displayed will cause the display to change to **"Off"** when all days have been disabled. Press select button 1 at the **"Return"** prompt returns to **"Days"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Start
This function is used to set the hours and minutes to start secondary pricing. Press select button 1 and the current four-digit hour and minute setting will be displayed. Press and hold select button 1 to change the hour setting, press button 2 to change the minute setting.

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Stop
This function is used to set the hours and minutes to stop secondary pricing. Press select button 1 and the current four-digit hour and minute setting will be displayed. Press and hold select button 1 to change the hour setting, press button 2 to change the minute setting.

Press select buttons 1 & 2 simultaneously to move to the next item in the menu.

Return
Press button 1 to return to **"Secondary Pricing"**.

Press buttons 1 & 2 to scroll to the next item in the menu

Environmental Controls

This allows the user to view the energy conservation menu **"Lighting"**, **Refrigeration"**, and also the **"Relay"** test menu. **When this is programmed to "Off" you will not see "Lighting", Refrigeration or Relay Test.** Press select button 1 and the current setting will be displayed (**On or Off**). Press and hold select button 1 to toggle between **"On"** and "**Off"** (**This feature is "Off" from the factory).** To move to **"Light"**, press & hold select buttons 1 & 2 simultaneously with this feature on. To move to "**Free Vend"**, press & hold select buttons 1 & 2 simultaneously with this feature off.

Light

This function is used to turn the lights off during certain periods of the day. To enter the sub-menu press select button 1. The following are sub-menus of the Light Menu: **"Days"**, **"Start"**, **"Stop"**, **"Enable"**, and **"Return"**. To move to **"Refrigeration**", press & hold select buttons 1 & 2 simultaneously.

Pressing select button 1 will enter **"Days"**.

Days
This function is used to set the days of the week to turn lights off.

Day of Week:	**Sunday**	**Wednesday**	**Saturday**	**Return**
	Monday	**Thursday**	**All Days**	
	Tuesday	**Friday**	**No Days**	

Press select button 1 and **"Monday #"** will show on the display, where # is **"0"** (disable) or **"1"** (enable). Press and hold select button 1 to toggle between **"0"** and **"1"**. Release the select button with the display showing the setting you wish to use. Press select buttons 1 & 2 simultaneously to scroll through all available days, **"All Days"**, **"No Days"**, and **"Return"**. Press select button 1 at the **"Return"** prompt returns to **"Days"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Start
This function is used to set the hours and minutes to start lighting routine.
Press select button 1 and the current four-digit hour and minute setting will be displayed.
(24 hour).
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item on the menu.

Stop
This function is used to set the hours and minutes to stop lighting routine.
Press select button 1 and the current four-digit hour and minute setting will be displayed. (24 hour)
Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item on the menu.

Enable
This function is used to allow the lighting routine to go in to affect.
Press select button 1 and the current setting will be displayed (**On** or **Off**).
Press and hold select button 1 to toggle between **"On"** and **"Off"**.
Release the select button showing the setting you wish to use and display will return to **"Enable"**.

Press select buttons 1 & 2 to scroll to **"Return"**.

Return
Press select button 1 to return to **"Light"**.
Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Refrigeration

This function is used to electronically control the refrigeration operations of the vender. . To enter the sub-menu press select button 1. The following are sub-menus of the Refrigeration Menu: **"Temperature", "Celsius or Fahrenheit "**, **"Display"**, **"Days"**, **"Start"**, **"Stop"**, **"Storage Temperature"** , **"Storage Enabled"**, and **"Return"**. To move to **"Free Vend"**, press & hold select buttons 1 & 2 simultaneously. Press select button 1 will enter **"Temperature"**.

Temperature
(Default Temperature 37^0F/15^0C)
This function is used to set the average product temperature for initial pull down and reload recovery (32-41 Fahrenheit or 0-5 Celsius).
Press select button 1 and **"tt.tx"** will show on the display where "**x"** is Fahrenheit or Celsius and "**tt.t"** is the degrees.
Press and hold select button 1 to increase or decrease the number by 1F or 0.5C. Release select button with the display showing the temperature you wish to use and the display will return to **"Temperature"**.
Press select buttons 1 & 2 to scroll to **"Celsius or Fahrenheit"**.

Celsius or Fahrenheit
This function is used to set the degree reading to Fahrenheit or Celsius.
Press select button 1 and the current setting will show on the display. Press and hold select button 1 to toggle between **"Fahrenheit**" and **"Celsius**". Release the select button with the display showing the setting you wish to use and display will return to **"Celsius or Fahrenheit"**.
Press select buttons 1 & 2 to scroll to **"Display"**.

Display
This function is used to enable the Temperature to be displayed following the **"Ice Cold Drink"** message. "**Sales Message" must also be set to "ON" for the temperature to be displayed**.
Press select button 1 and the current setting will be displayed (**On or Off**). Press and hold select button 1 to toggle between **"On" and "Off"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Days
This function is used to set the days of the week to use Temperature Setting Routine.

Day of Week:	**Sunday**	**Wednesday**	**Saturday**	**Return**
	Monday	**Thursday**	**All Days**	
	Tuesday	**Friday**	**No Days**	

Press select button 1 and **"Monday #"** will show on the display, where **#** is **"0"** (disable) or **"1"** (enable). Press and hold select button 1 to toggle between **"0"** and **"1"**. Release the select button with the display showing the setting you wish to use. Press select buttons 1 & 2 simultaneously to scroll through all available days, **"All Days"**, **"No Days"**, and **"Return"**. Press select button 1 at the **"Return"** prompt returns to **"Days"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Start
This function is used to set the hours and minutes for storage temperature to become active. Press select button 1 and the current four-digit hour and minute setting will be displayed (24 hour)

Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item on the menu.

Stop
This function is used to set the hours and minutes for storage temperature to become inactive. Press select button 1 and the current 4-digit hour and minute setting will be displayed (24hour).

Press & hold select button 1: Set Hours
Press & hold select button 2: Set Minutes

Press select buttons 1 & 2 simultaneously to move to the next item on the menu.

Storage Temperature
(Default Temperature 60^0F/ 16^0C)
This function is used to set the temperature for product storage (32-75 Fahrenheit or 0-24 Celsius). Press select button 1 and **"tt.tx"** will show on the display where **x** is Fahrenheit or Celsius and **tt.t** is the degrees.
Press and hold select button 1 to increase or decrease the number by 1 or 0.5. Release select button with the display showing the temperature you wish to use and display will return to **"Storage Temperature"**
Press select buttons 1 and 2 simultaneously to scroll to **"Storage Enabled"**

Storage Enabled
This function is used to enable the storage setting.
Press select button 1 and the current setting will be displayed (**On or Off**).
Press and hold select button 1 to toggle **"On or Off"**.
Release the select button showing the setting you wish to use and display will return to **"Storage Enabled"**

Press select buttons 1 & 2 to scroll to **"Return"**

Return
Press select button 1 at **"Return"** to return to **"Refrigeration"**
Press select buttons 1 & 2 simultaneously to scroll to next item on the menu.

Free Vend

This function is used to set the Free Vend option. Note: For free vend to become active the Key Switch Kit (626,020,44x.x4) must be connected to the Free Vend Switch Connector. Press select button 1 and **"ENABLE"** will show on the display. To move to "**Override"**, press & hold select buttons 1 & 2 simultaneously.

Enable
This function is used to allow the free vend to go in affect.
Press select button 1 and the current setting will be displayed (**On or Off**).
Press and hold select button 1 to toggle between **"On" or "Off "**.
Release the select button showing the setting you wish to use and the display will return to **"Enable"**.
Press select buttons 1 & 2 to scroll to **"Display"**

Display
This function is used to show the current number of free vends performed by the controller.
Press select button 1 and **"#"** will show on the display where **"#"** is the number of free vends performed by the controller. Release the select button and display will return to **"Display"**
Press select buttons 1 and 2 simultaneously to scroll to **"Reset"**

Reset
This function is used to reset number of free vends to zero.
Press and hold select button 1 for 5 seconds to reset the number of free vends performed by the controller to zero. Release the select button and the display will return to **"Reset"**.
Press select buttons 1 & 2 to scroll to **"Return"**.

Return
Press select button 1 to return to **"Free Vend"**.
Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Override

This function is used to allow the Key Switch Kit (626,020,44x.x4) to override some of the settings stored for normal operations. When enabled and the free vend switch is in the closed position, the controller will override **"Free Vend"**, disable vending, disable currency acceptance, display will show **"No Sales"**, and lights will be off. The compressor will continue to keep product at the programmed temperature. Vender will remain in this state until the Override Switch is in the open position.
Press select button 1 and the display will show the current setting for 2 seconds (**On or Off**).
Press and hold select button 1 to toggle between **"On"** - enabled and **"Off"** - disabled.
Release the select button showing the setting you wish to use and display will return to **"Override"**.
To move to **"Sales Message**", press & hold select buttons 1 & 2 simultaneously.

Sales Message

This function is used to turn on the scrolling message **"Ice Cold Drink"**.
Press select button 1 and the display will show the current setting (**On or Off**).
Press and hold select button 1 to toggle between **" On or Off"**.
Release the select button showing the setting you wish to use and display will return to **"Sales Message"**. Press select buttons 1 & 2 simultaneously to scroll to **"Recharge"**

Recharge -The installed Card Reader must support this option for this feature to work correctly.

This function is used to enable the recharge card setting routine.
Press select button 1 and the display will show the current setting (**On**- recharge card enabled or **Off**- recharge card disabled). Press and hold select button 1 to toggle between **"On"** and **"Off"**.
Release the select button showing the setting you wish to use and display will return to **"Recharge"**.
Press select buttons 1 & 2 simultaneously to scroll **"Return"**

Return
Press select button 1 to return to **"User Menu"**.
Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Diagnostics
This function allows you to systematically diagnose problems related to the vender. To move to **"Auto Test"** press select buttons 1 & 2 simultaneously, to enter sub-menu press select button 1. The following are sub-menus of Diagnostics Menu:

Vender with DC motors **"Selection", "Home Sensor", "Vend Sensors", "Motors", "Coin Mech", "Note Acceptor", "Display", "Relay", "Jog", "Prime",** and **"Return"**.

Selection
Press any select button, and the display will indicate the number of the select button pressed.
Press & hold select buttons 1 & 2 simultaneously to the next item on the menu.

Home Sensor - This prompt only appears on machines with DC motors.
Use this to test the Home Sensor on the Motor for any column. Press select button 1 to display **"Column 1"**. Press & hold select buttons 1 & 2 simultaneously to scroll through the columns and **"Return"**. Press button 1 when a column is displayed will cause the displayed column to test that the motor's home sensor can be detected. The Display will read **"Pass"** or **"Fail".** Press select button 1 at **"Return"** to return to **"Home Sensor"**.
Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Vend Sensor - This prompt only appears on machines with DC motors.
Use this to test vend sensor in the machine. Press select button 1 to begin the test and **"TEST CHUTE"** will be displayed. Touch or place an object on the chute. When it is detected **"Chute Pass"** will be displayed. If nothing is detected on the chute, a **"Fail"** or "CS Error" message will be displayed.
Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Motors
Use this test to run any motor in the stack. Press select button 1 and **"Motor 1"** will show on the display. Use the following select buttons to run this test.

Press Select Buttons 1 & 2:	Press until desired motor # to run or **"Return"** is shown on the display.
Press Select Button 1:	Press to run the selected motor. The display will show **"Vending"** and the selected motor will run until a product passes the Vend Sensor.

Coin Mech
Use this test to check Coin Mech, Coin Chutes, and the Coin Mech payout systems. Inserting any coins enters the coin mech diagnostic function. Only tubed coins (i.e. that can be returned) will be accepted. The value of the coins will be reflected on the Display. Press select button 2 will return any coins inserted and return to **"Coin Mech"**.
Press select buttons 1 & 2 simultaneously to move to the next item on the menu.

Note Acceptor
Use this test to check note acceptor. Inserting a bill enters the Note Accepter diagnostic function. Bill will be held in escrow and the Display will the notes value. Press select button 2 to stack the bill. Press select button 3 to return the bill. After the note is has been stacked or returned, the display will return to **"Note Acceptor"**.
Press & hold select buttons simultaneously to move to the next item on the menu.

Display
Press select button 1 and the display segments will illuminate in a scrolling manner, or will scroll through a set of text characters and return to **"Display"**.

Press & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

Relay – Relays can only be tested if the environmental controls package is installed in the vender.

Compressor #
This function allows you to test the relay circuit in the Power Distribution Box for the compressor.
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 damage to the compressor.*
Press select button 1 and the display will show **"Compressor #"**, where # is the state of the relay **0** = not activated or off; **1**= activated or on. Press select button 1 to toggle the relay **"On"** and **"Off"**. Press select buttons 1 & 2 simultaneously to move to **"Fan"**.
Fan #
This function allows you to test the relay electronic control of the evaporator fan.
Press select button 1 and the display will show **"Fan #"** where # is state of the relay **0** = not activated or on; **1** = activated or off. Press select button 1 to toggle the relay **"On**" and **"Off"**.
Press select buttons 1 & 2 simultaneously to scroll to **"Light"**.
Light #
This function allows you to test the relay electronic control of the lights.
Press select button 1 and the display will show **"Light #"**, where # is the state of the relay **0** = not activated or on; **1** = activated or off. Press select button 1 to toggle the relay on and off. Press select buttons 1 & 2 simultaneously to scroll to **"Return"**.
Return
Press select button 1 to return to **"Relay"**.

Jog Motor - This prompt only appears on machines with DC motors

Press select button 1 the display will show **"Column 1"**. Press select buttons 1 & 2 simultaneously until the desired column is displayed. Selecting the desired column will then prompt for a direction either **"Clockwise"** or **"Counter Clockwise"**. Pressing select 1 & 2 simultaneously will scroll between **"Clockwise"**, **"Counter Clockwise"** and **"Return"**. Pressing select button 1 when "**Clockwise"** or **"Counter Clockwise"** is displayed will jog the motor in that direction. Press select buttons 1 & 2 to scroll to **"Return"**. Press select button 1 at the **"Return"** to return to **"Jog Motor"**.
Press select buttons 1 & 2 to scroll to the next Item.

Prime Column – This prompt only appears on machines with DC motors.

Pressing select button 1 will display **"Column 1"**. Pressing select buttons 1 & 2 simultaneously will scroll to the desired column. Pressing select button 1 when the desired column is displayed will cause that column to be primed. The Display will show **"Prime Column"**. Press select buttons 1 & 2 simultaneously to scroll to **"Return"**. Press select button 1 at **"Return"** will return to **"Prime"**
Press select buttons 1 & 2 simultaneously to scroll to the next Item.

Return

Press select button 1 to return to **"Diagnostics"**.
Press and hold select buttons 1 & 2 simultaneously to scroll to next menu item.

Auto Test

This function is used in Dixie-Narco's manufacturing process and is not intended for use in the field. Its purpose is a self-test routine to check the SBC components listed. For further details contact Dixie-Narco Factory Service.
Press and hold select buttons 1 & 2 simultaneously to scroll to **"Return"**.

Return

Press & hold select buttons 1 & 2 simultaneously to scroll to **"Return"**.
Press select button 1 to return to Sales mode.

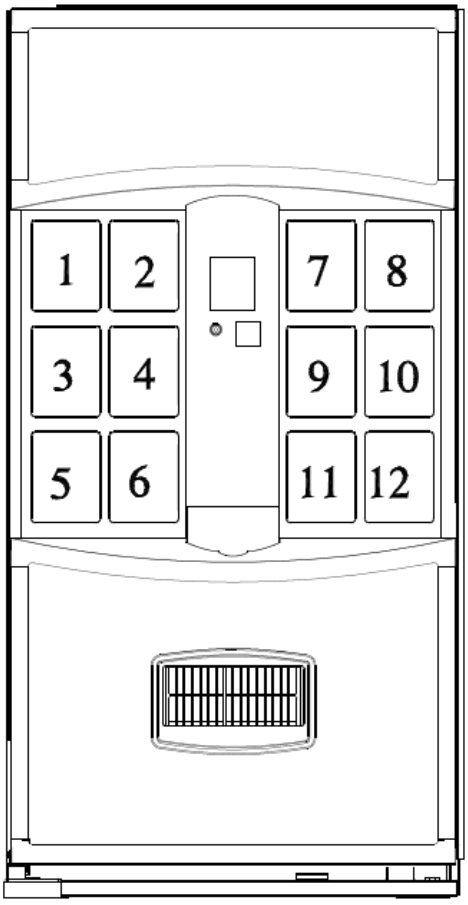
P-SERIES SBC QUICK REFERENCE MENU PROMPTS

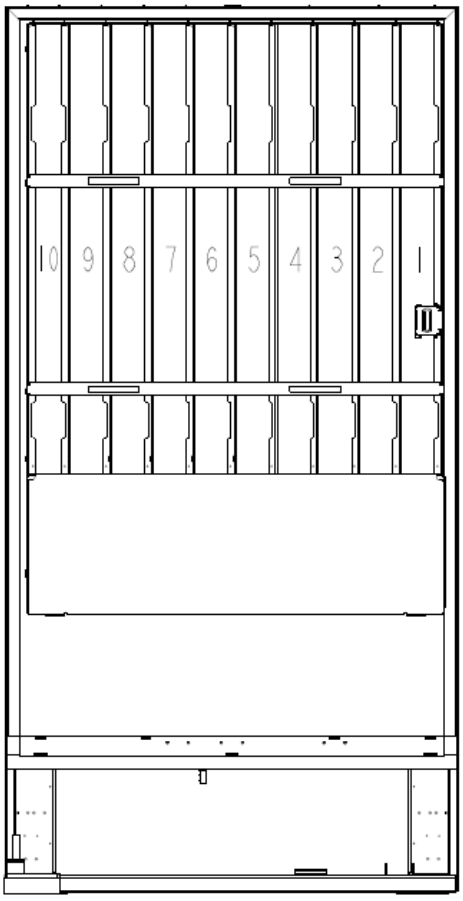
Main Menu	Sub-Menu	Sub-Sub-Menu	Main Menu	Sub-Menu	Sub-Sub-Menu
Historical Data			User con't.	Light	Days
Resettable Data					Start
Set Price					Stop
Cash Settings	Fill Coin Mech				Enable
	Dump Coin Mech				Return
	Coin Rules			Refrigeration	Temperature
	Escrow	Price 1			Celsius or Fahrenheit
		Price 2			Display
		Select 4			Days
		Select 1			Start
	Multi Vend				Stop
	Return				Storage Temperature
User Menu	Space To Sales				Storage Enable
	Column	Package			Return
		Hold Angle		Free Vend	Enable
		Depth			Display
		Vend Angle			Reset
		Return			Return
	Time	Year		Override	
		Month		Sales Message	
		Day		Recharge	
		Hour/Minute		Return	
		Daylight Savings Time	Diagnostics	Selection	
		Return		Home Sensor	
	Language			Vend Sensors	
	Electronic Counter			Motors	
	Limited Access	Selects		Coin Mech	
		Days		Note Accepter	
		Start 1		Display	
		Stop 1		Relay	Compressor
		Start 2			Fan#
		Stop 2			Light#
		Return			Return
	Secondary Price	Price		Jog Motor	Column #
		Days			Return
		Start		Prime Column	Column #
		Stop			Return
		Return		Return	
	Environmental Controls		Auto test		
			Return		

A. Press and hold select buttons 1 & 2 simultaneously to move through the menu from top to bottom.

B. Press select button 1 to move left/right or enter/exit in the menu, depending on the menu prompt on the display.

Factory Default Setting





Selection #	Column #
1	1
2	2
3	3
4	4
5	5
6	6

Selection #	Column #
1	1
2	1
3	2
4	2
5	3
6	3
7	4
8	4
9	5
10	6
11	7
12	8

Setting The Vender Type

To program with **"Enter Number of Columns in Machine"** on the display press select button 1. The display will show **"6"** for six columns. Press select buttons 1 & 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 1 to set the number of columns. **"Set Model Number"** will appear on the display, press select button 1. The display will show the first available model number for the current vender type. Press select button 1 & 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 1. The display will scroll **"1 = Set Package Type 2 = Exit"**. Press select button 1 and the display will show **"1"** indicating the package type. 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 1 & 2 to scroll through the available package types. Press select button 1 to set the displayed package type. **"2=Exit 1=Prime Col 1"** will appear on the display. Press button 1 to prime column 1 or select button 2 to skip priming column 1. The display will then display **"2=Exit 1=Prime Col 2"**. Repeat the priming process until all columns have been primed or skipped.

6 column machines
DN552-5,
DN552-6,
DN552-7,

7 column machines
DN504-6,
DN504-7,
DN504-8,
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
DN720-9, DN760HV-12
DN720-10, DN770HV-11
DN760-9, DN770HV-12
DN760-10, DN770-12
DN760-11,
DN760-12,
DN760-13,
DN760HV-11,

The following are other model numbers that may appear:

6 column machines
DN552-5,
DN552-6,
DN552-7,
DN552-8,

7 column machines (continued)
DN532-5,
DN532-6,
DN532-7,
DN532-8,

8 column machines
DN756-7,
DN756-8,
DN756-9,
DN756-10,
DN756-11, DN756HV-11
DN756-12, DN756HV-12
DN756-13

10 column machines
DN760-9,
DN760-10,
DN760-11,
DN760-12,
DN760-13

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.

Periodically inspect the power supply cord for damage. If the cord or plug is worn or damaged, it must be replaced with a power supply cord of the same type, size and specification as originally provided with the machine. DO NOT USE THE VENDING MACHINE UNTIL THE WORN OR DAMAGED CORD IS REPLACED.

The Ground Fault Circuit Interrupter (GFCI) must be tested frequently and before each use in accordance with the instructions provided on the GFCI device. IF THE GFCI DOES NOT PASS THE TEST, DO NOT USE THE MACHINE. Unplug the supply cord from the receptacle and call the Dixie-Narco Technical Support Group for assistance at 1-800-688-9090.

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:

Rinse the sign with a soft cloth or sponge soaked in warm water. 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). Repeat the above steps as necessary. To prevent spotting, dry the sign using a soft cloth.

CABINET

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

DRAIN PAN, DRAIN TUBE, AND DRAIN HOSE

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

THE COMPRESSOR ELECTRICAL CIRCUIT IS ALWAYS LIVE WHEN THE PLUG IS CONNECTED TO AN ELECTRICAL OUTLET

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 (or as needed)	**Main Door**	
	1. Lock Bolt & Nut Retainer	Mechanics Friend
	2. Hinge Pivot Points	Mechanics Friend
	Inner Door	
Every Year (or as needed)	1. Hinge Pivot Points	Mechanics Friend
	Inner Door	
	1. Door Gasket	Petroleum Jelly

MEMORY RESET

To reset memory enter the AUTO "Auto Test" menu and scroll to the option to reset the memory. Press select button 1 to select this option and follow the displayed prompts. Once the machine has cleared its memory it will be ready to program.

EPROM REPLACEMENT

Software changes / upgrades are accomplished by changing the EPROM on the Control Board.

HVV P-Series 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 804,920,870.01, will automatically update the software revision 804,920,870.01 or higher upon installation. For SBC boards using 804,920,870.01 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 804,920,87x.x1 software revisions)
- 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 804,920,870.01. 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 804,920,870.01 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.

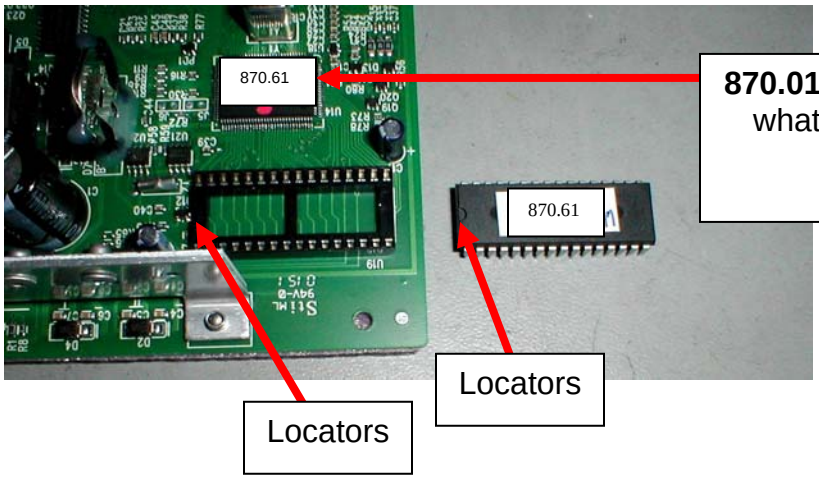
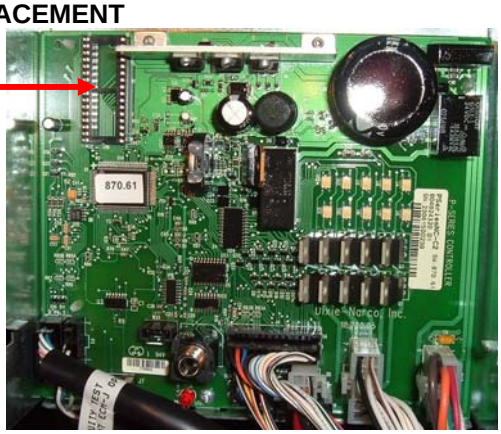


Figure 1 – EPROM REPLACEMENT

Sample Board Shown



ELECTRICAL

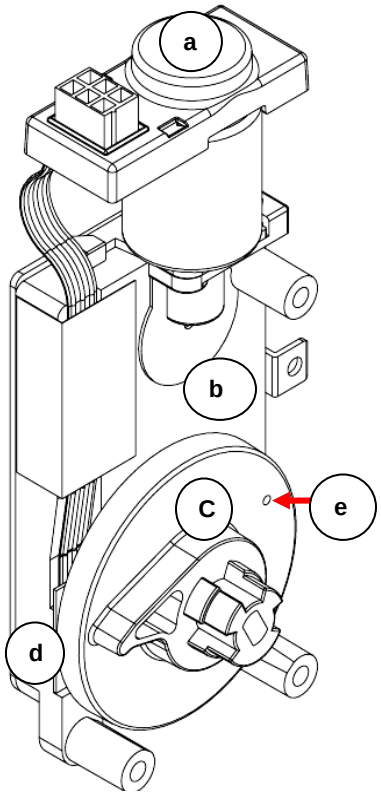
Transformer	Provides 24 volt and 12 volt power to the Machine Controller
Fuse (F1)	1.6 Amp Slo Blo Control Board Power (includes display and MDB Peripherals)
Relay	Potter & Brumfield T91P5D52-24 240 VAC / 20 A-NO / 10A-NC
Choke	Foster A-16015 5MH 6A

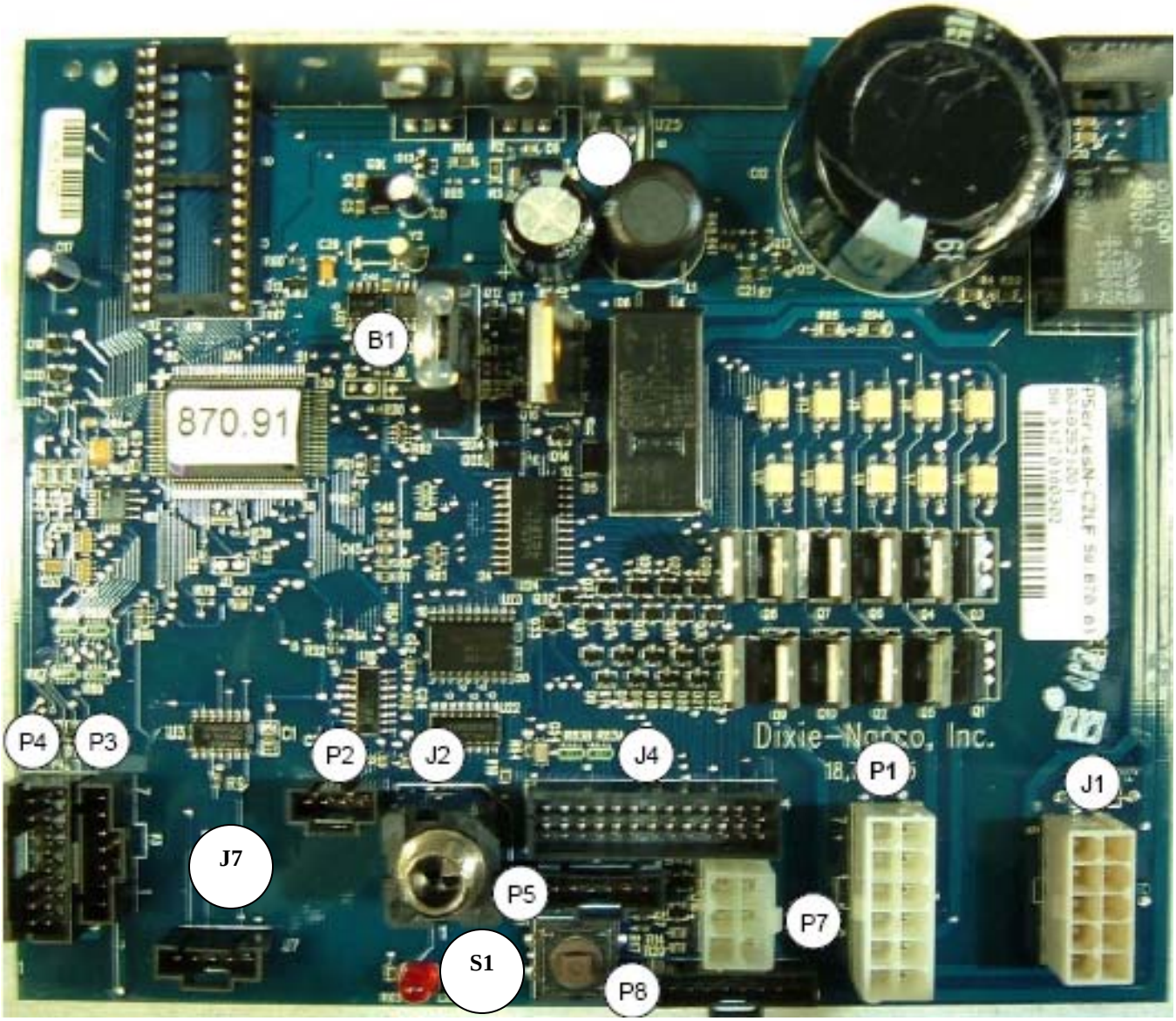
REFRIGERATION

115 VAC	
Compressor	Embraco, 1/3 HP, FFI 12HBX 115 V/ 60 Hz 1 Phase Unit uses 9.0 oz. of 134A Refrigerant
Start Relay	115 VAC, 1.351.605
Start Capacitor	115 VAC 378-454 MFD / 110V
Thermal Overload	115 VAC MRT 22AFZ-5590
Condenser Fan	16W Motor 115 V/60HZ 5KSM81FFL 3022T Blade – 8-3/4" dia.
Evaporator Fan	6.5W Motor 115 VAC OSM 2045X1 Blade – 6" dia.

VEND MOTOR OPERATION

The Control Board is responsible for the operation of the Vend Motor Assembly. It supplies 24VDC to the Vend Motors through the P1 Connector of the Control Board and monitors its movement from the Encoder through the J4 Connector.
The Vend Motor Assembly consists of an Encoder (a), Motor and Gearbox (b), Cam Assembly (c) and a Home Sensor (d).
The Encoder sends counts to the Control Board to advise it of its position.
The Cam Assembly includes a Magnet (e) which actuates the Home Sensor when Vend Motor returns to the Home Position.
The Home Position is the starting position of each rotation of the Vend Motor. When the Main Door is closed, the Control Board identifies columns which are deemed as **SOLD OUT** or jammed. The Display will read **"PRIME"** and runs the Vend Motor to the Home Position. The Rotor is reloaded in this process.
When a selection is activated, the Control Board sends 24DCV to the Vend Motor. In turn the Encoder sends pulses to the Control Board which stops the Vend Motor at a predetermined point or **Vend Angle** in programming.



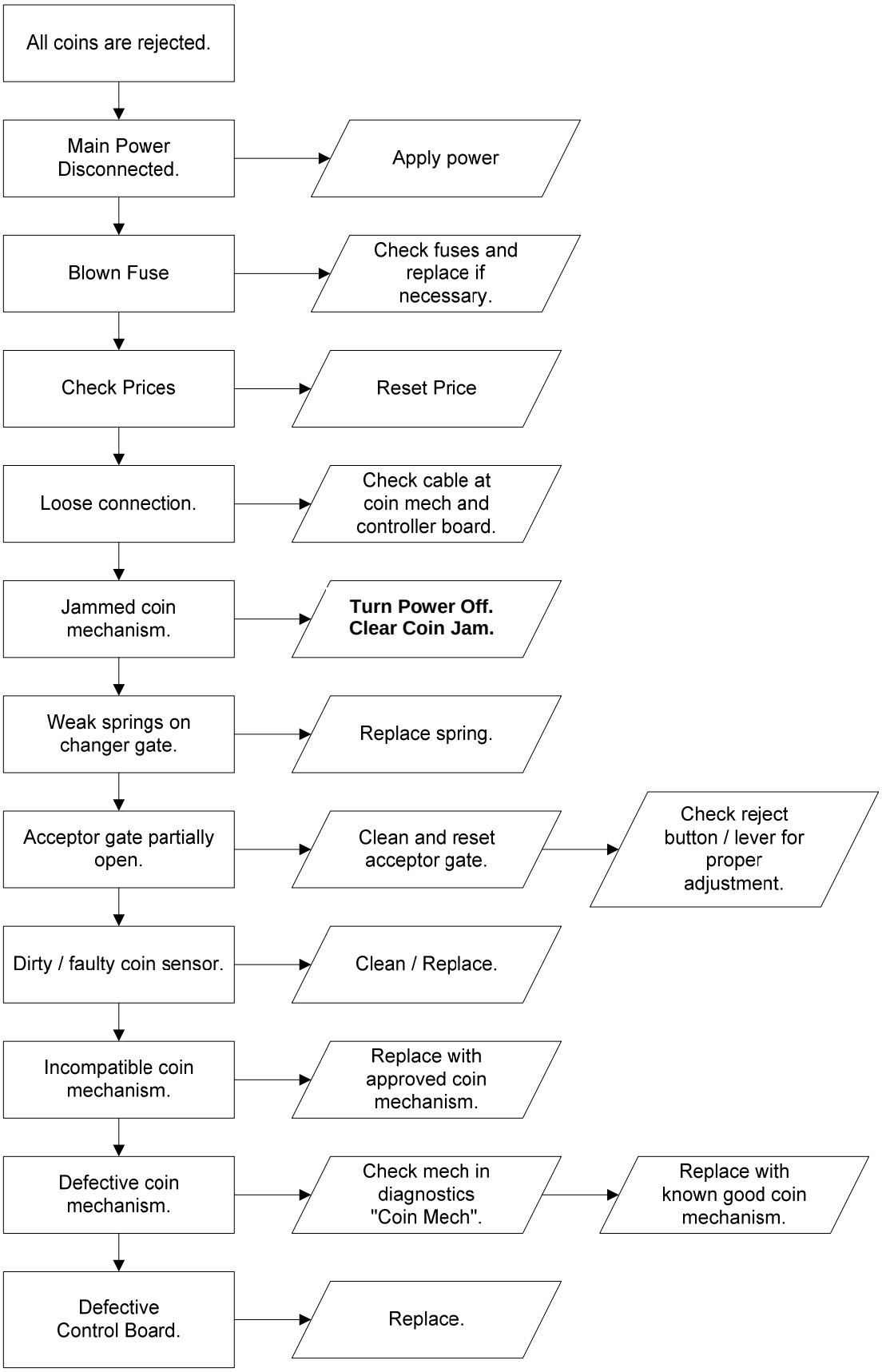


SBC CONTROL BOARD

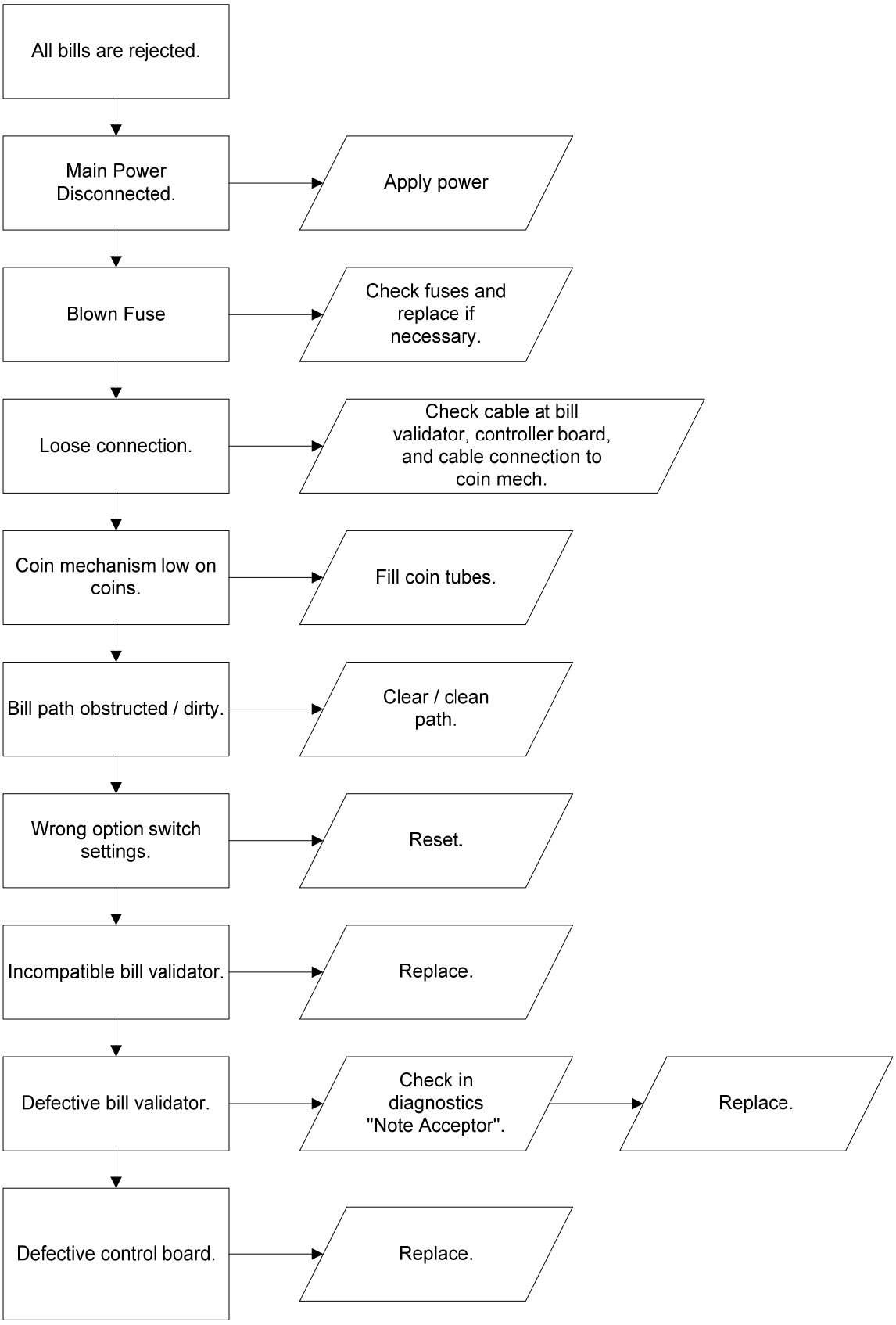
P1	Motor
P2	Secondary DEX
P3	Display
P4	Select Switches
P5	Temp Sensor
P7	MDB
P8	Energy Management
J1	AC Power
J2	DEX
J4	Cam / Sold Out
J7	Optional
B1	Battery
S1	Service Switch

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

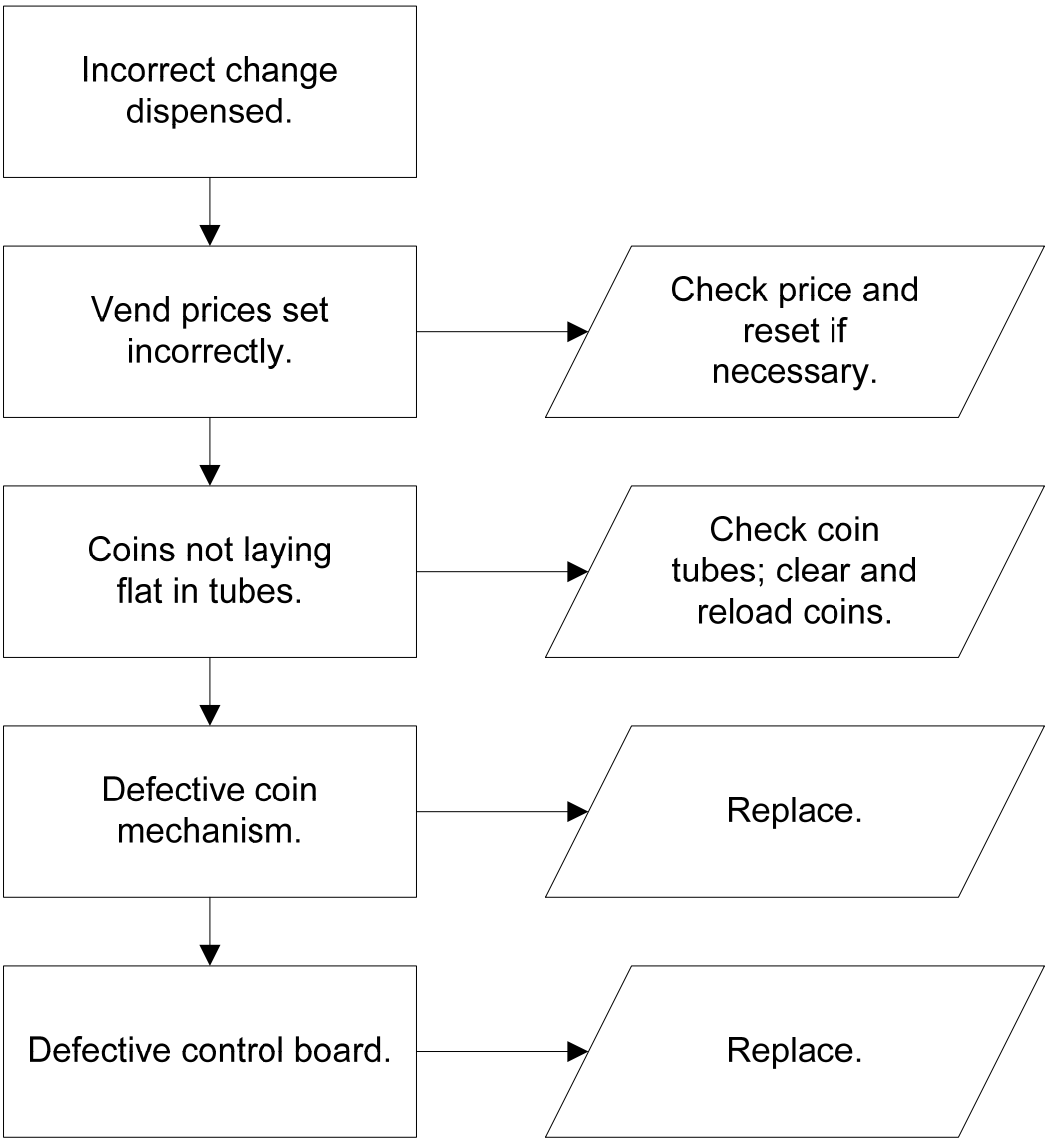
ALL COINS ARE REJECTED



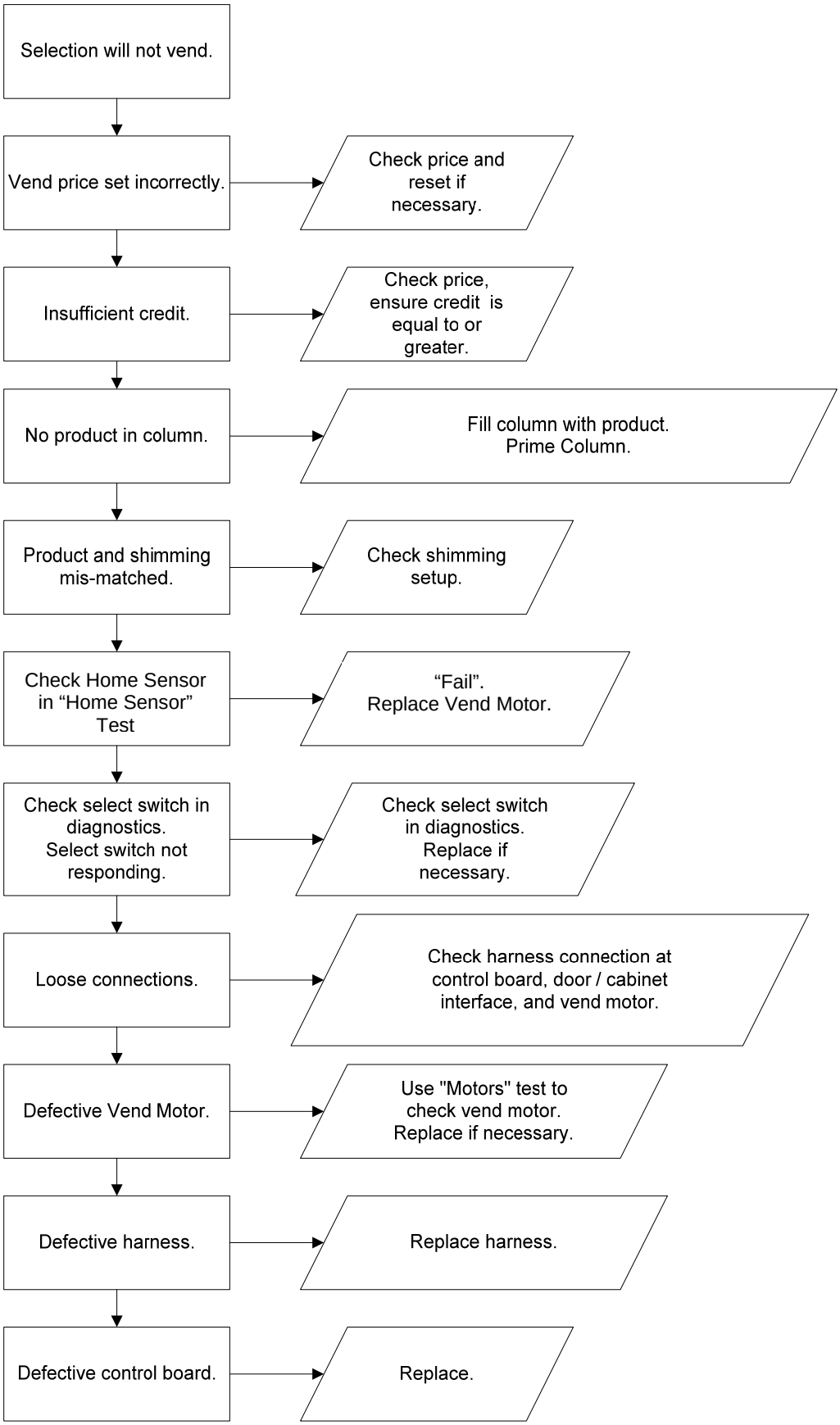
ALL BILLS ARE REJECTED



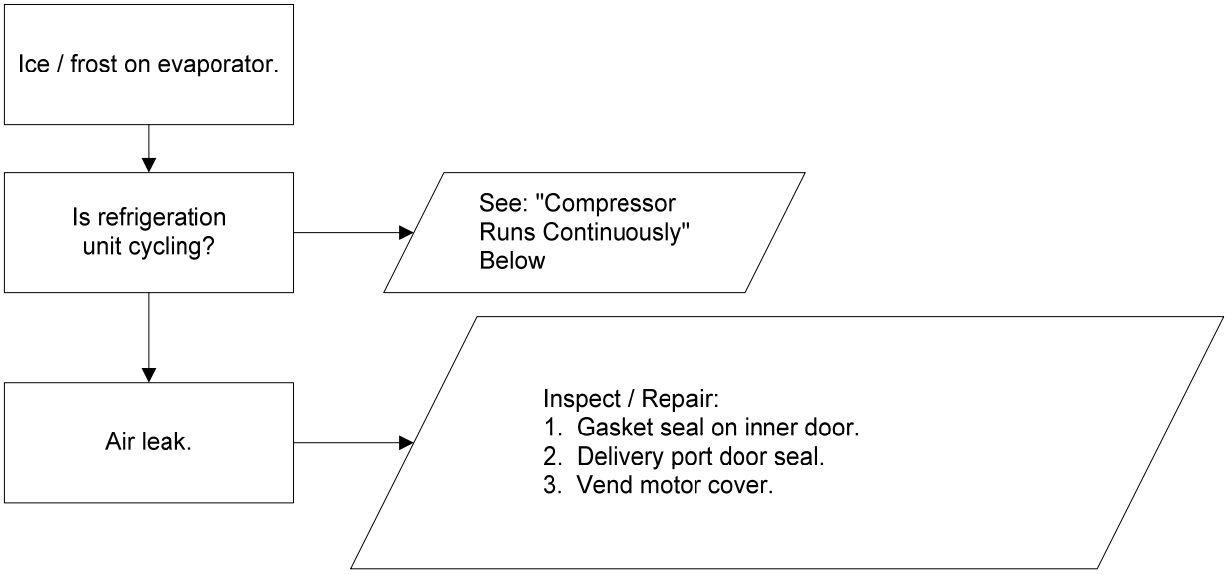
INCORRECT CHANGE DISPENSED



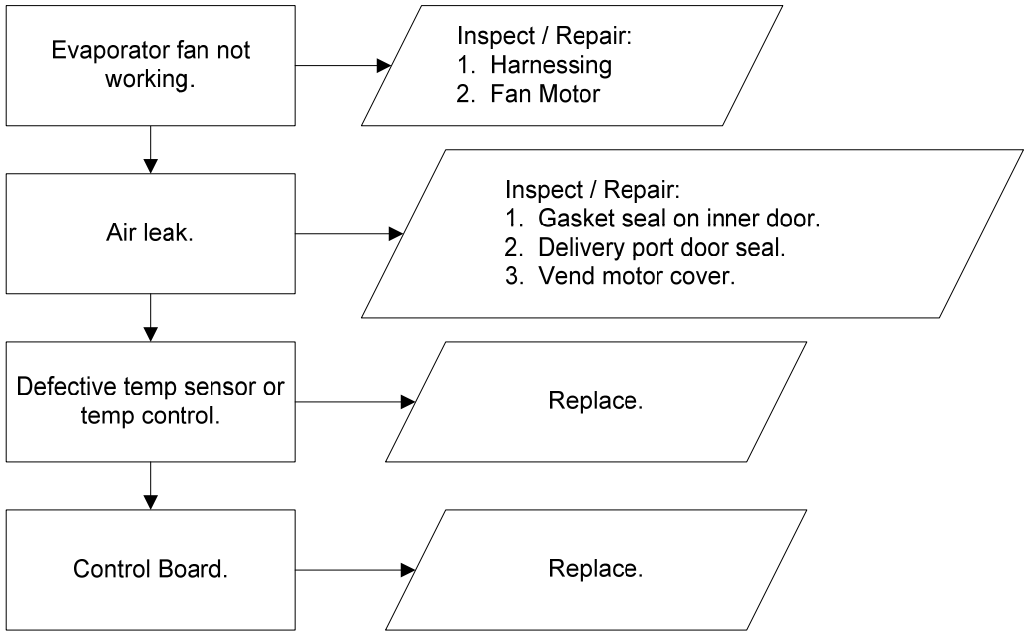
SELECTION WILL NOT VEND



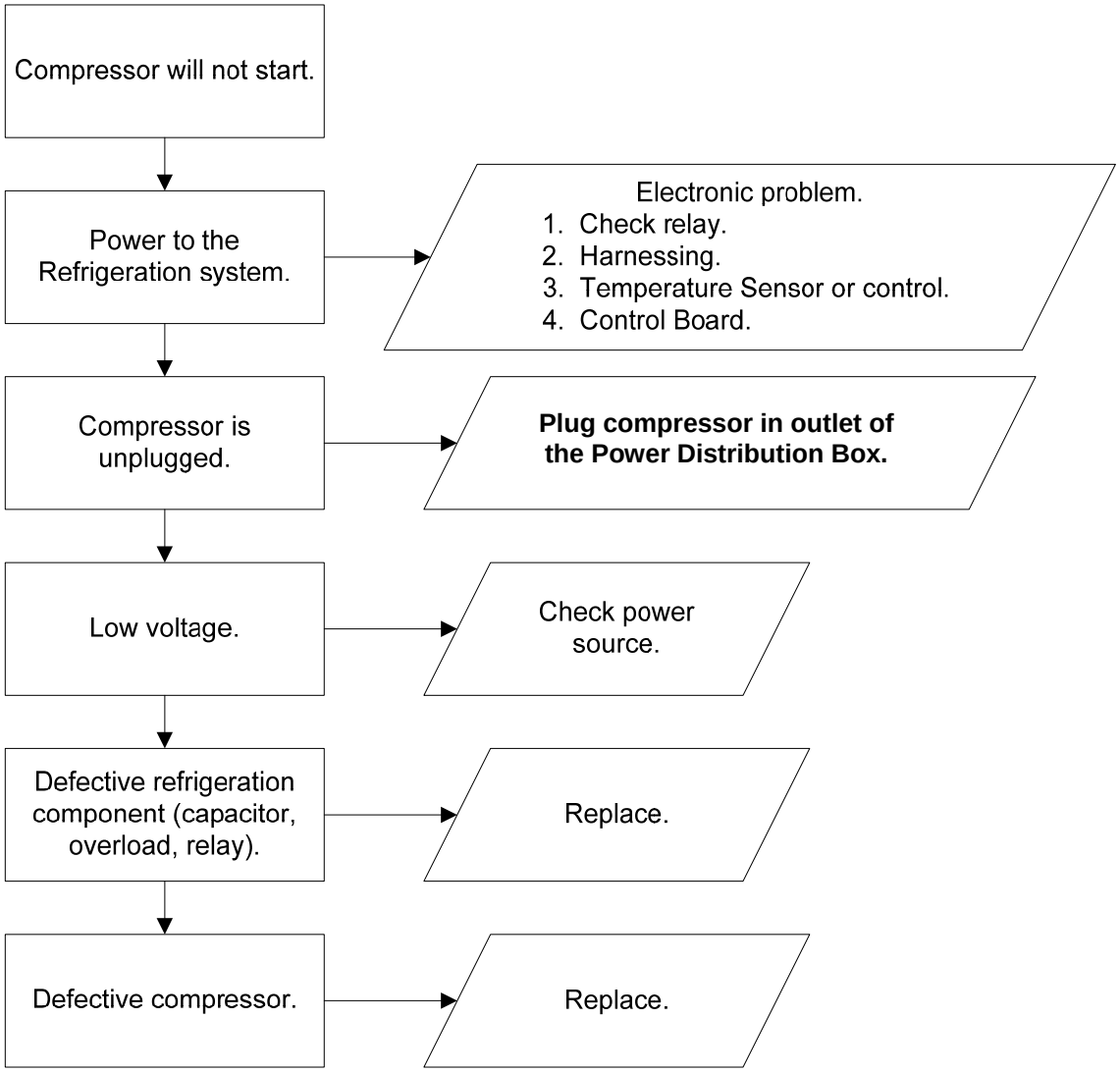
ICE / FROST ON EVAPORATOR



COMPRESSOR RUNS CONTINUOUSLY

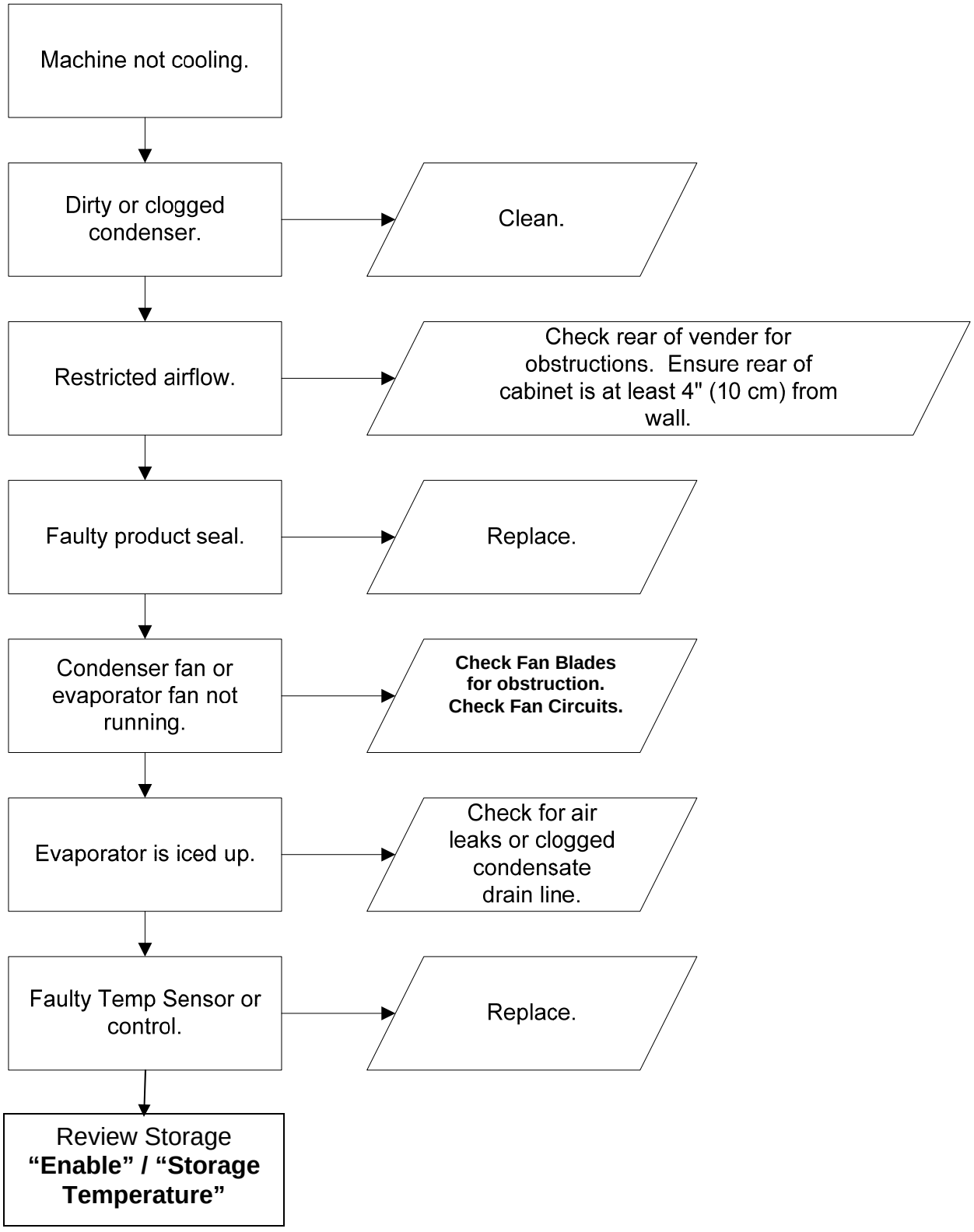


COMPRESSOR WILL NOT START



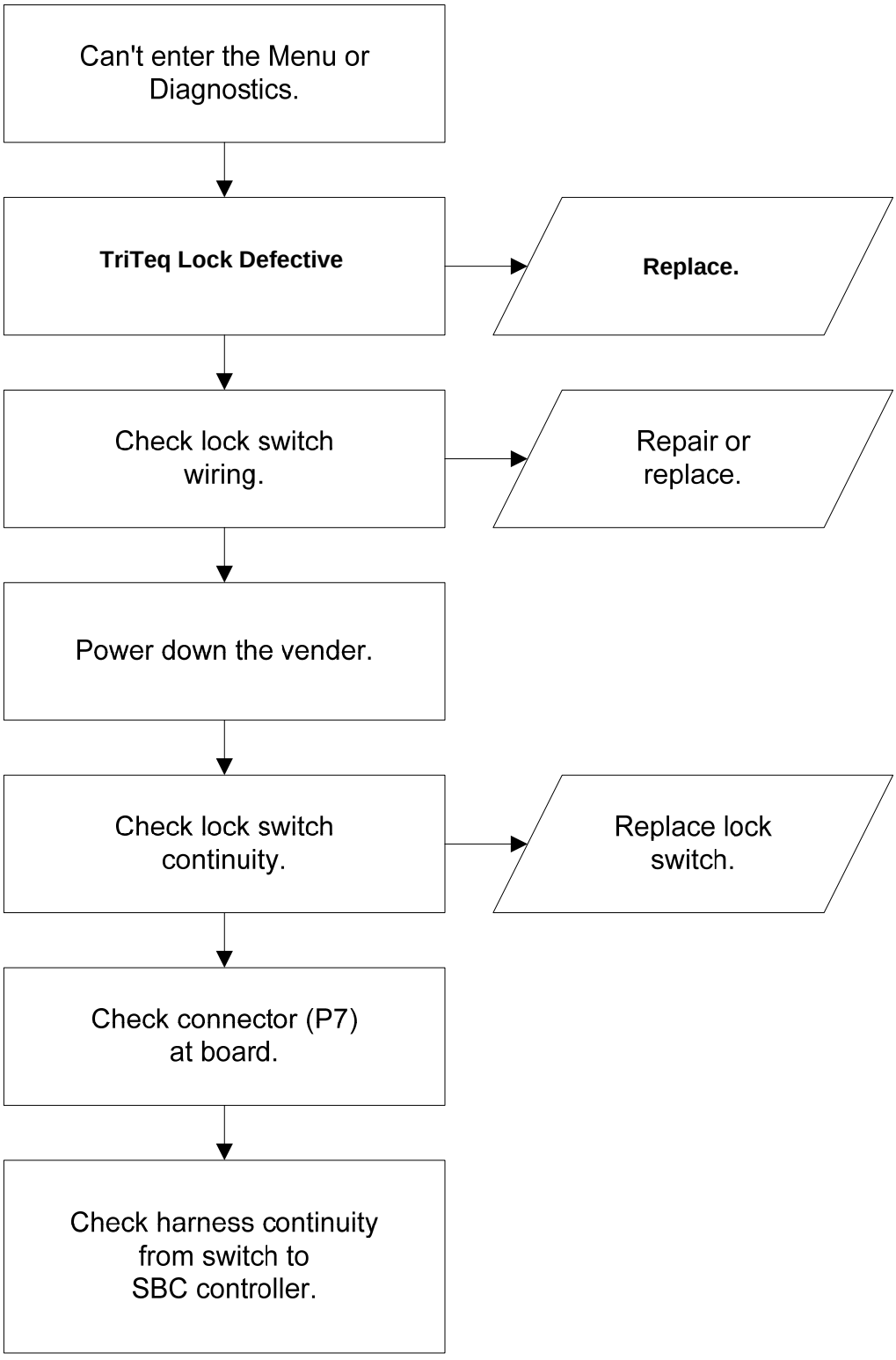
Troubleshooting Tip: **Use a short 15 Amp extension cord and plug the compressor directly into the wall outlet. This will bypass the Electronic Controls. Note: For Testing Purposes Only.**

MACHINE NOT COOLING

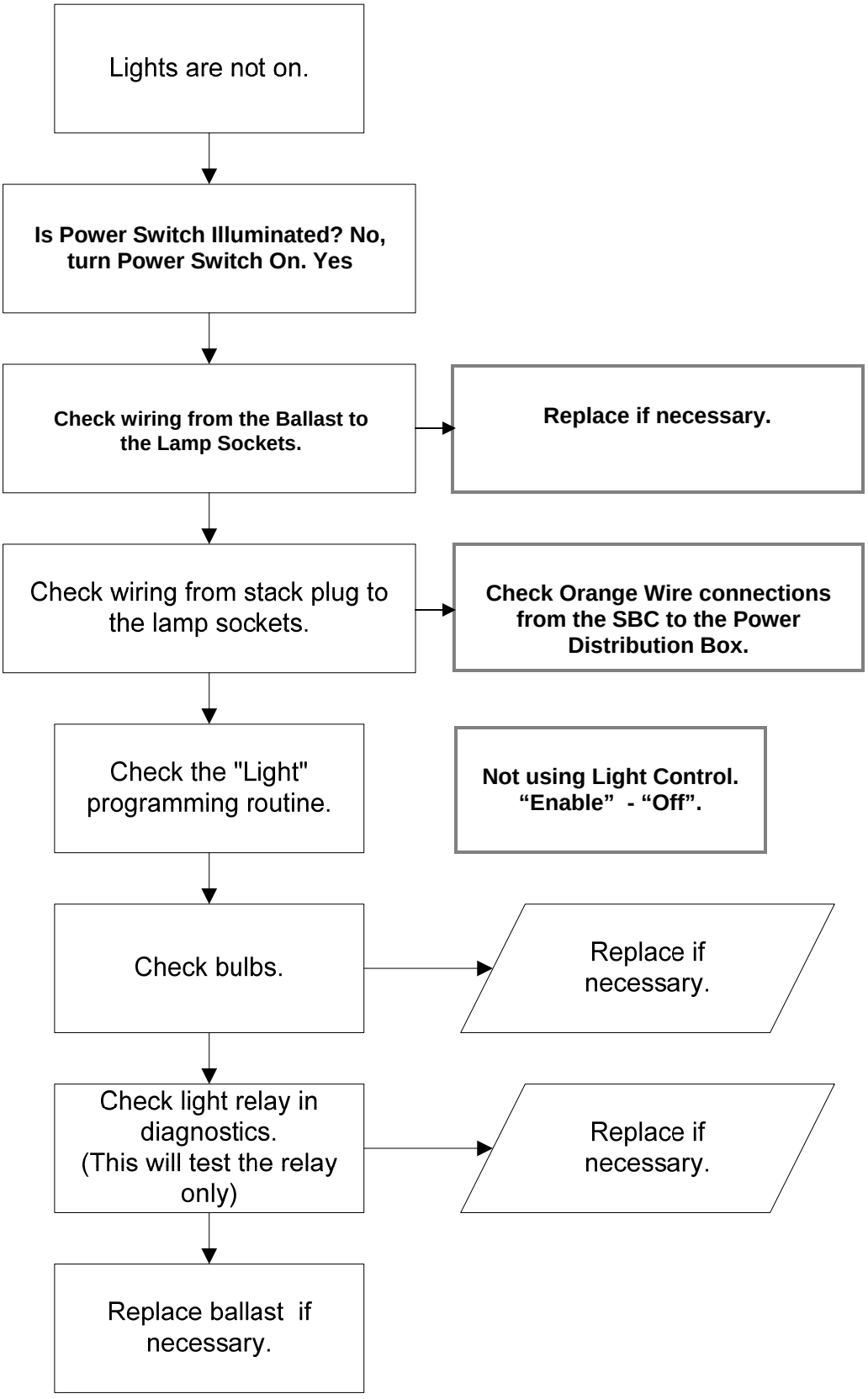


CANNOT ENTER THE MENU OR DIAGNOSTICS

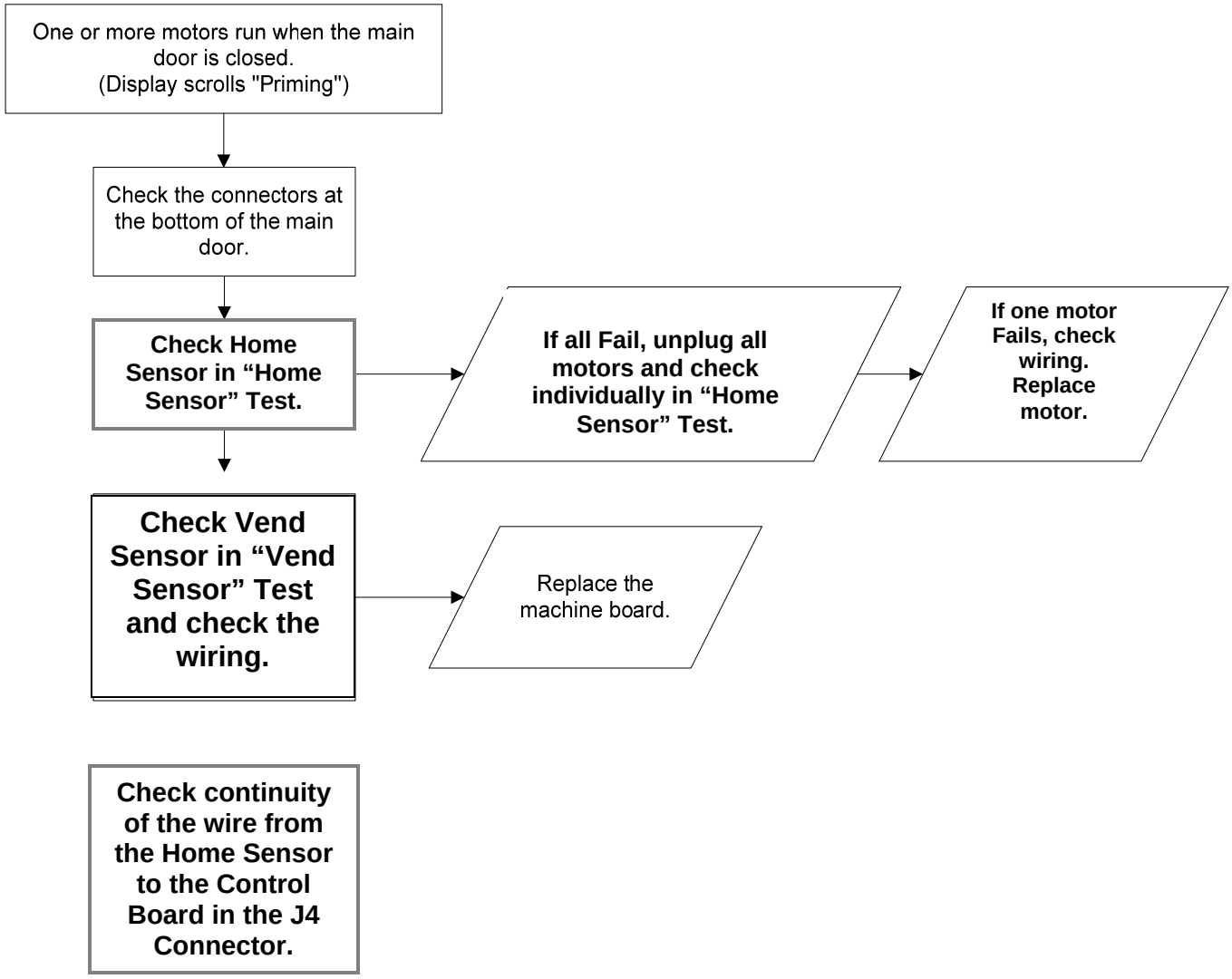
Note: Prior to checking wires or connections, ensure power has been removed from vender.



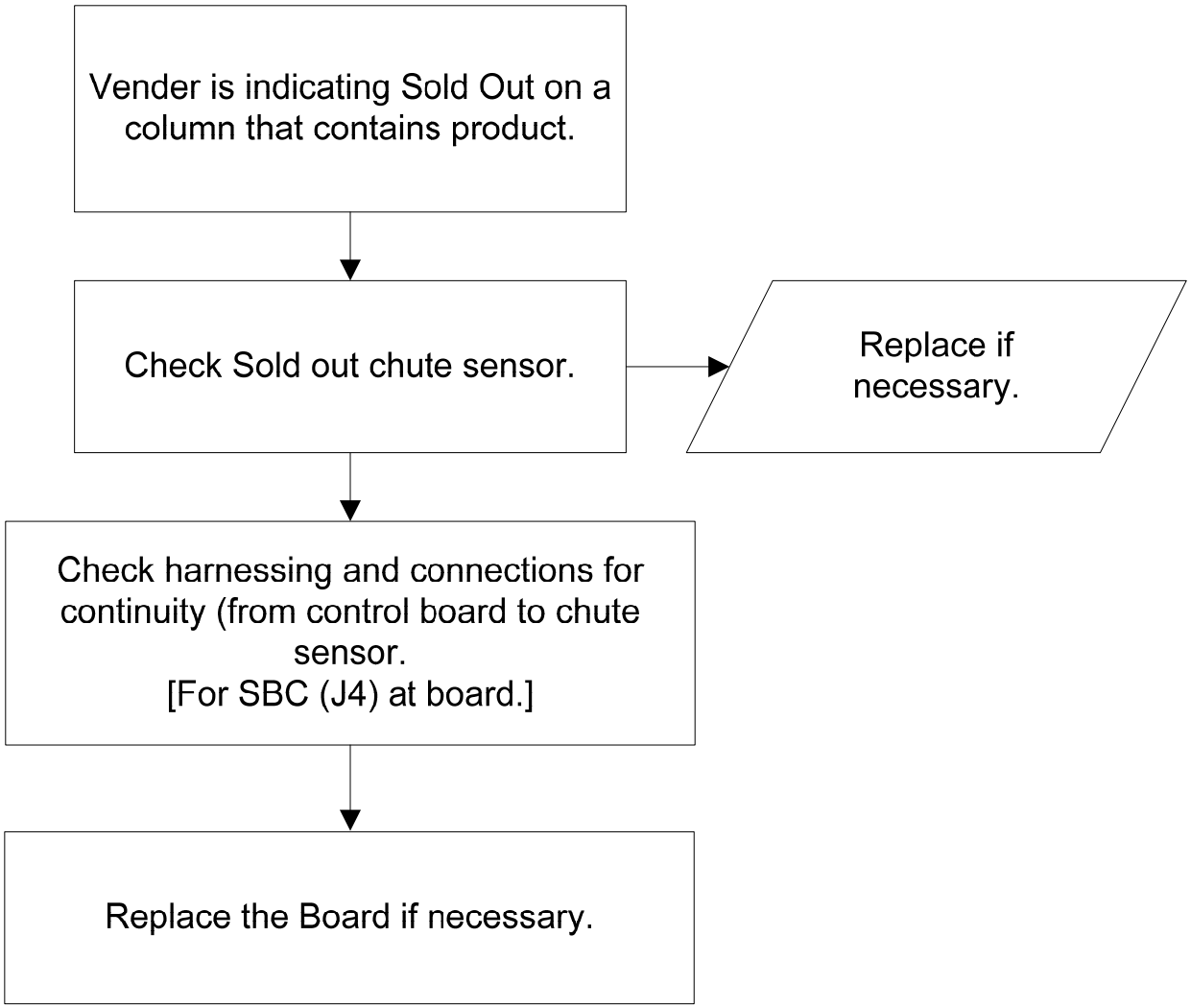
LIGHTS ARE NOT ON



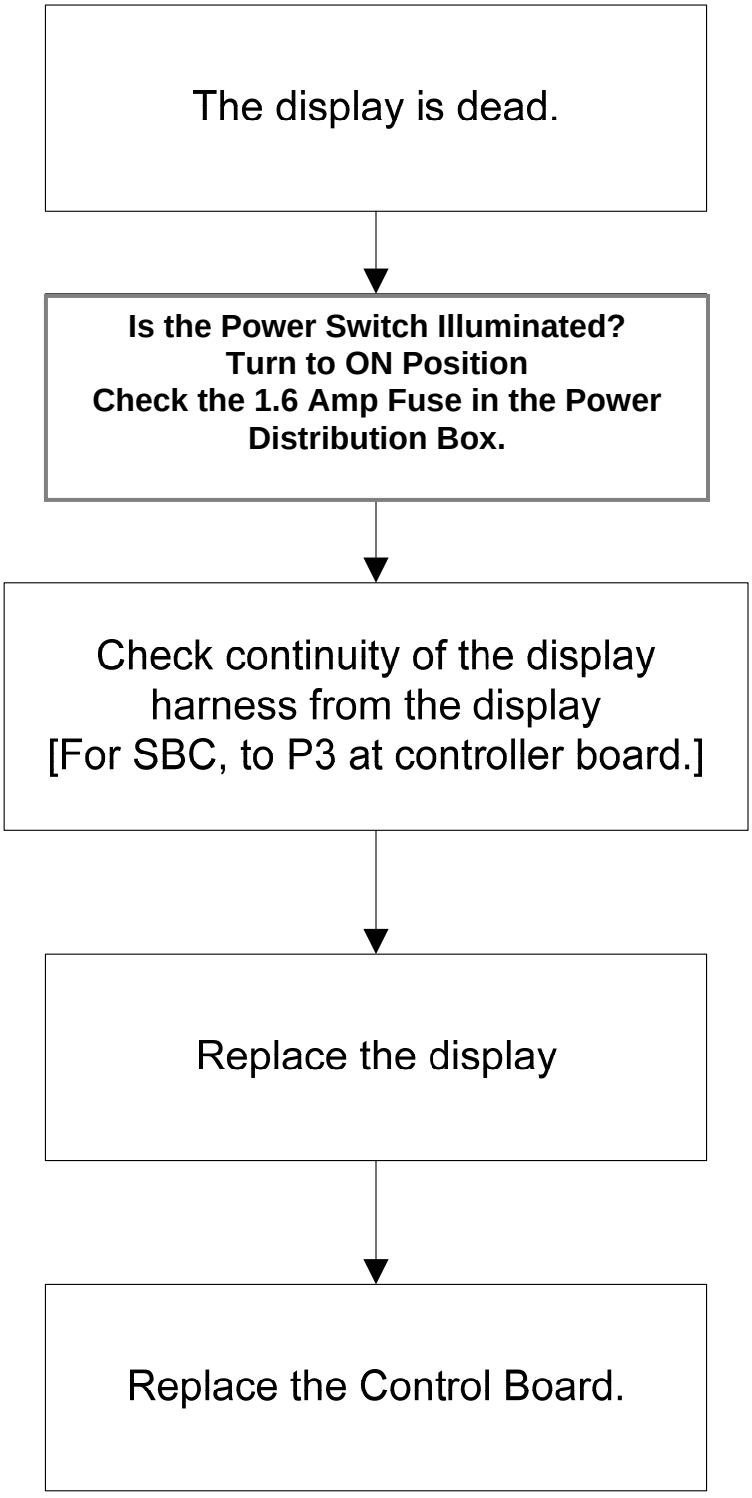
ONE OR MORE MOTORS RUN WHEN MAIN DOOR IS CLOSED
(Display Scrolls “PRIMING”)



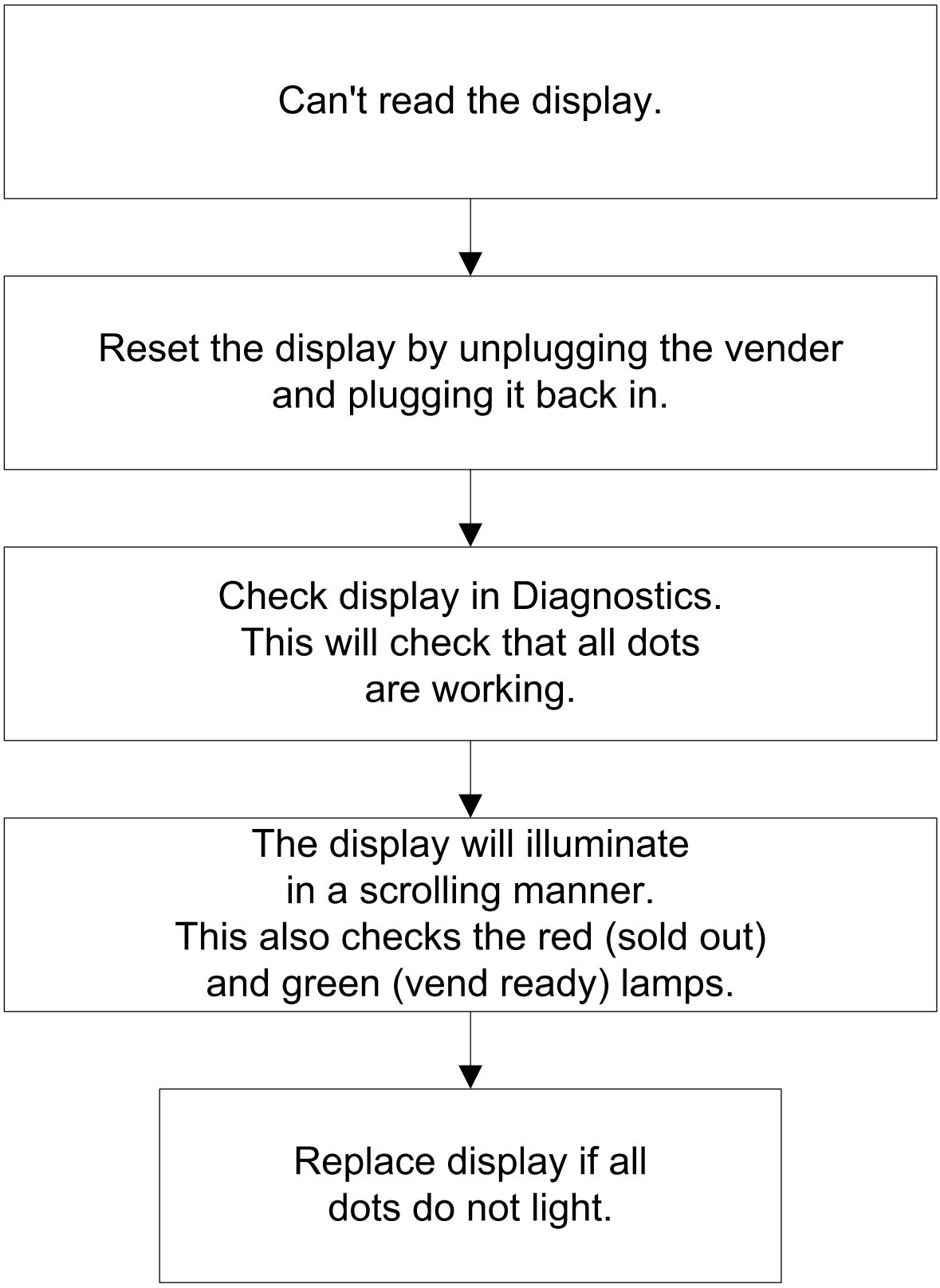
SOLD OUT

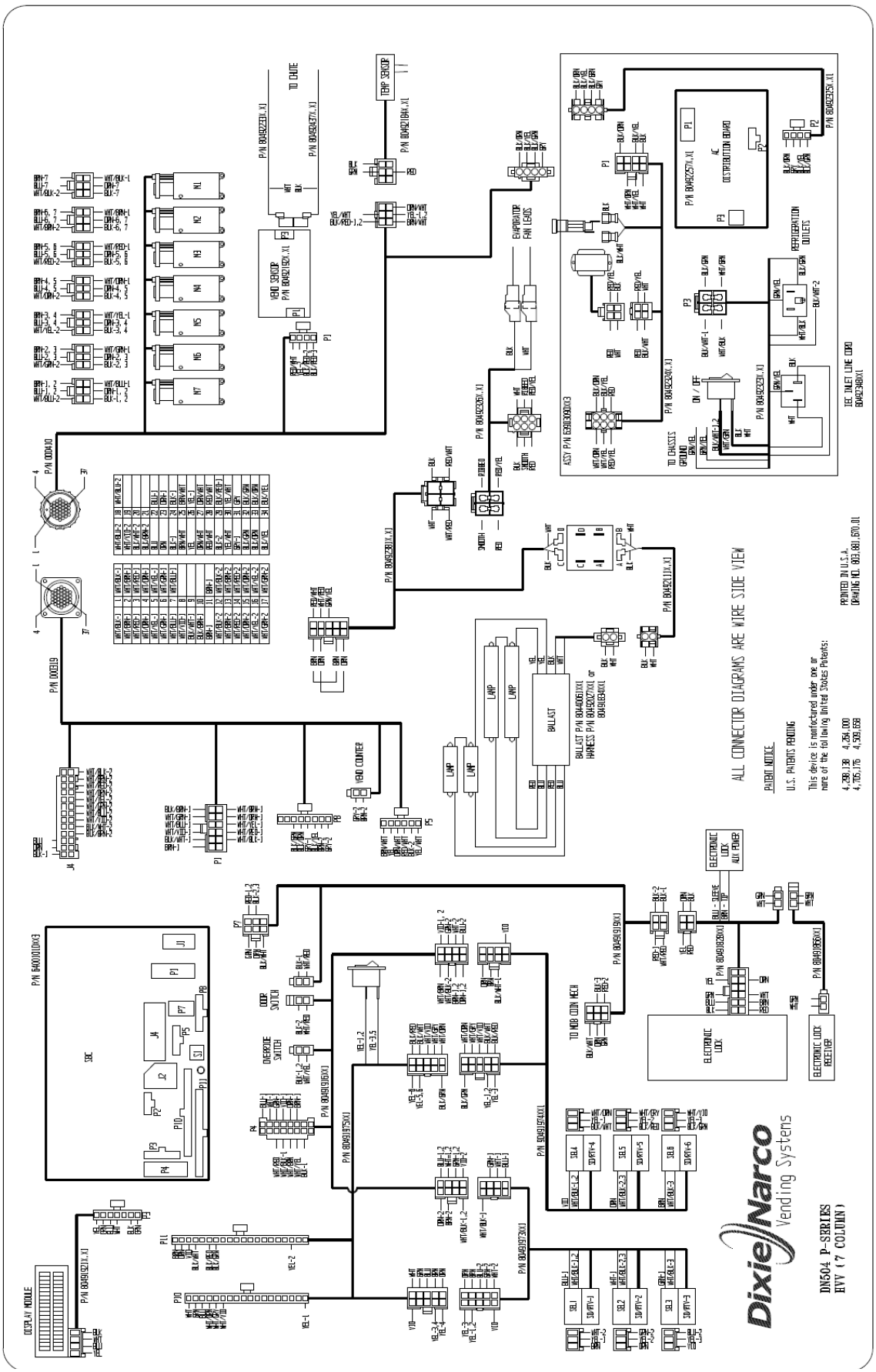

Vender is indicating Sold Out on a column that contains product.
Check Sold out chute sensor.
Replace if necessary.
Check harnessing and connections for continuity (from control board to chute sensor.
[For SBC (J4) at board.]
Replace the Board if necessary.

THE DISPLAY IS DEAD

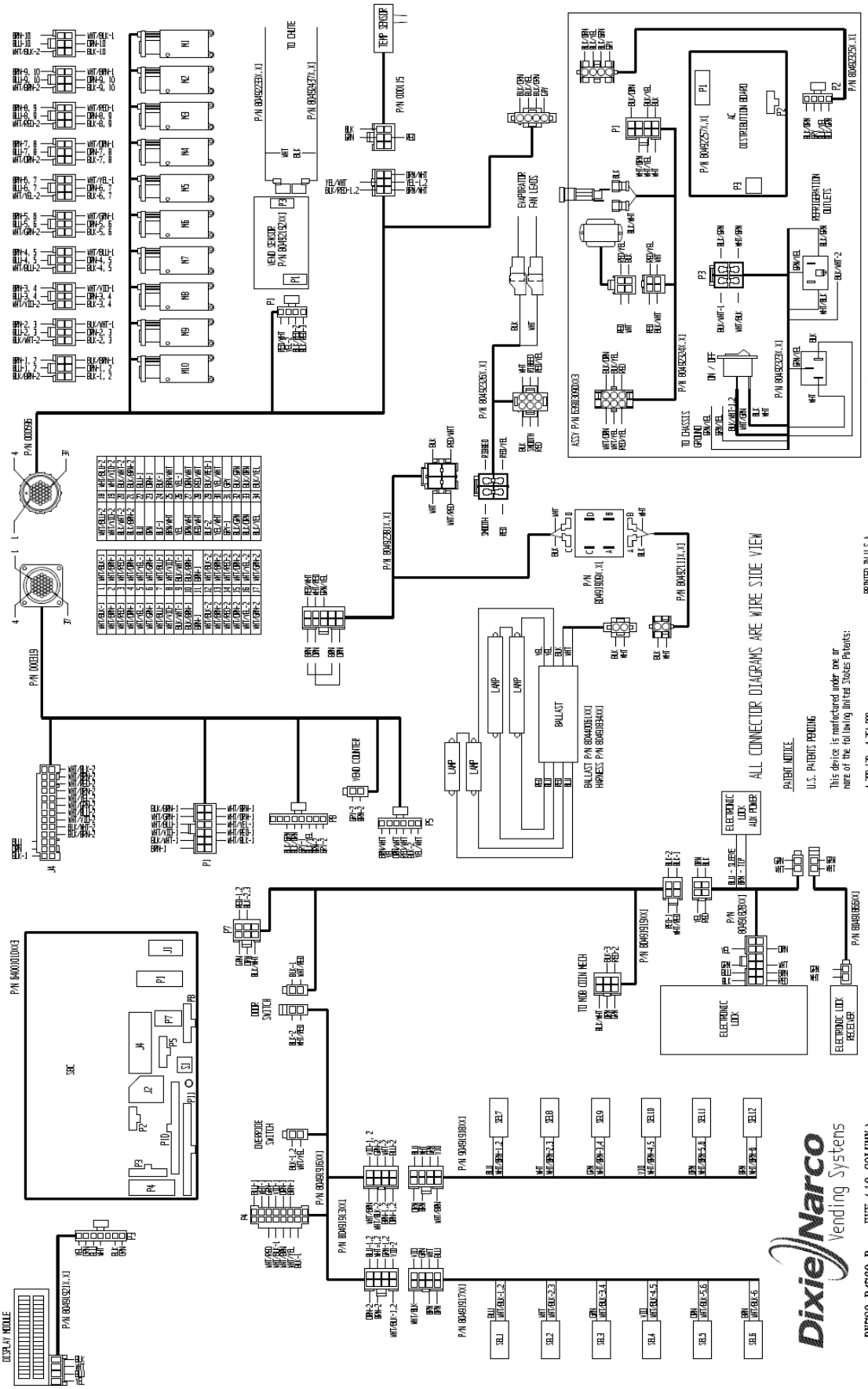


CAN'T READ THE DISPLAY



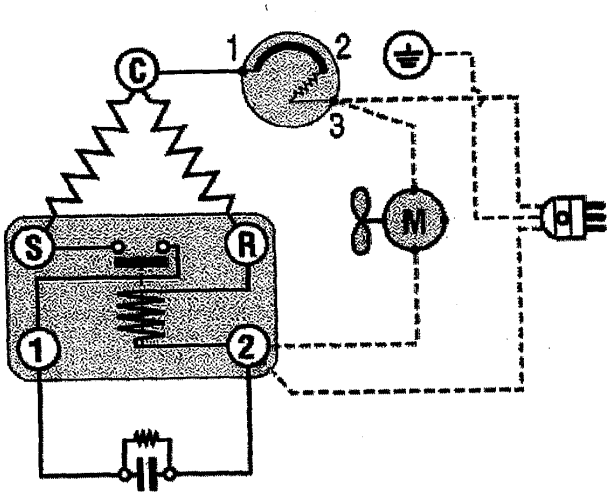


6 Select / 7 Column



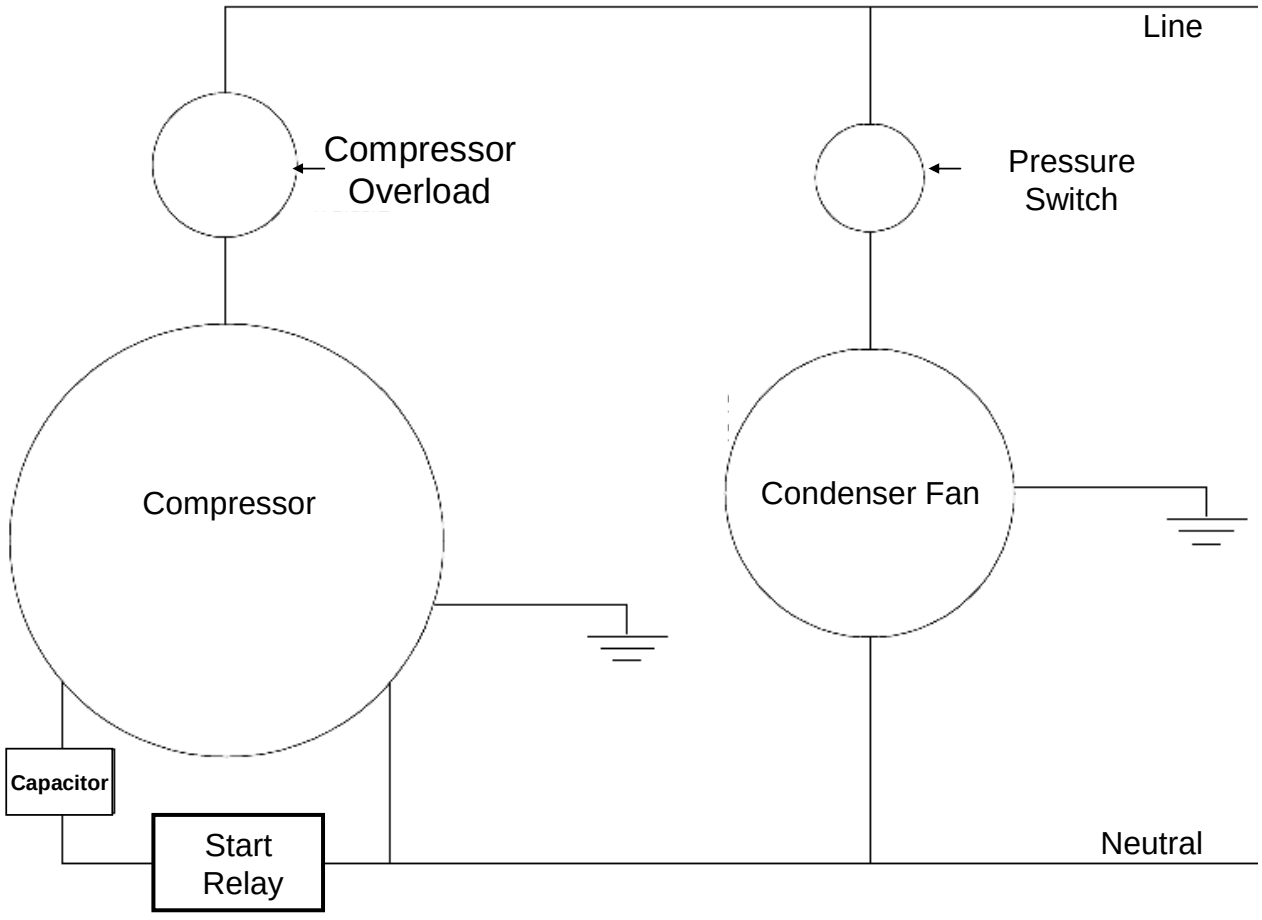
HVV 12 Select / 10 Column

Refrigeration Circuit Diagrams



Symbol	Description
	Current Start Relay with Capacitor Connections
	Start Capacitor
	Overload Protector
M	Fan
	Single Phase Motor
	Earth Connection
	Single Phase Supply
C	Common
R	Run
S	Start
	Factory Made Connections
	Connections to be made

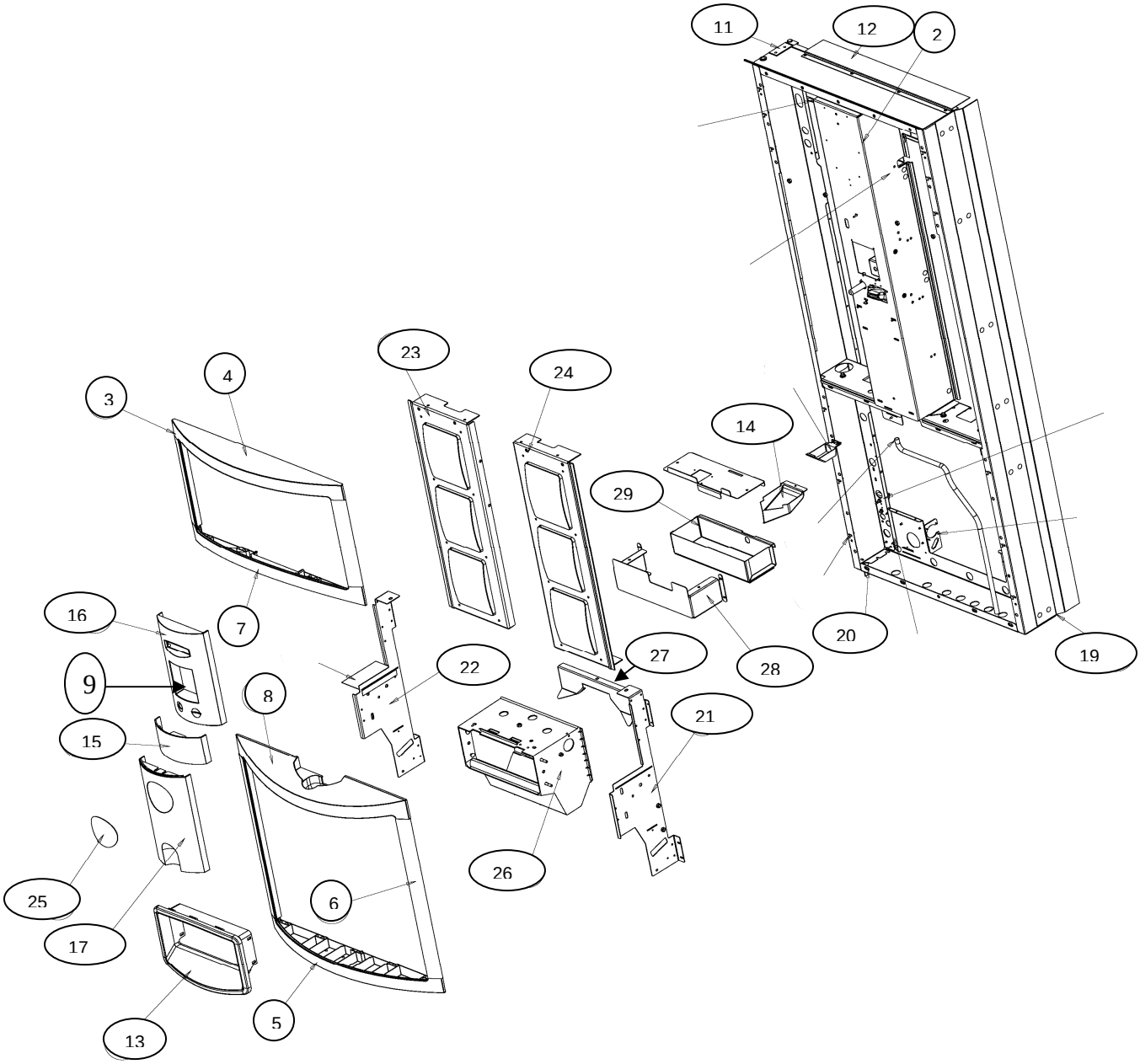
New Refrigeration Circuit effective run# 6917



PARTS LIST
Models DN504PHV-6 & DN720PHV-12

MAIN DOOR EXTERIOR ..... 48 - 51
MAIN DOOR INTERIOR (A) ..... 52 - 54
MAIN DOOR INTERIOR (B) 55
SELECT PANEL ..... 56 - 57
T8 LIGHTING ..... 58 - 59
ELECTRONIC COMPONENTS ..... 60 - 61
INNER DOOR ..... 62 - 63
HARNESSING SINGLE BOARD CONTROLLER (SBC) ..... 64 - 65
POWER DISTRIBUTION BOX ..... 66 - 67
CABINET AND VEND MECHANISM (SECTION1) ..... 68 - 70
CABINET AND VEND MECHANISM (SECTION 2) ..... 71 - 72
CHUTE ASSEMBLY 73
EVAPORATOR FAN ASSEMBLY ..... 74 - 75
REFRIGERATION SYSTEM ..... 76 - 77
SCREWS & NUTS ..... 78 - 79
WASHERS, BOLTS, & MISC. HARDWARE ..... 80 - 82

MAIN DOOR EXTERIOR

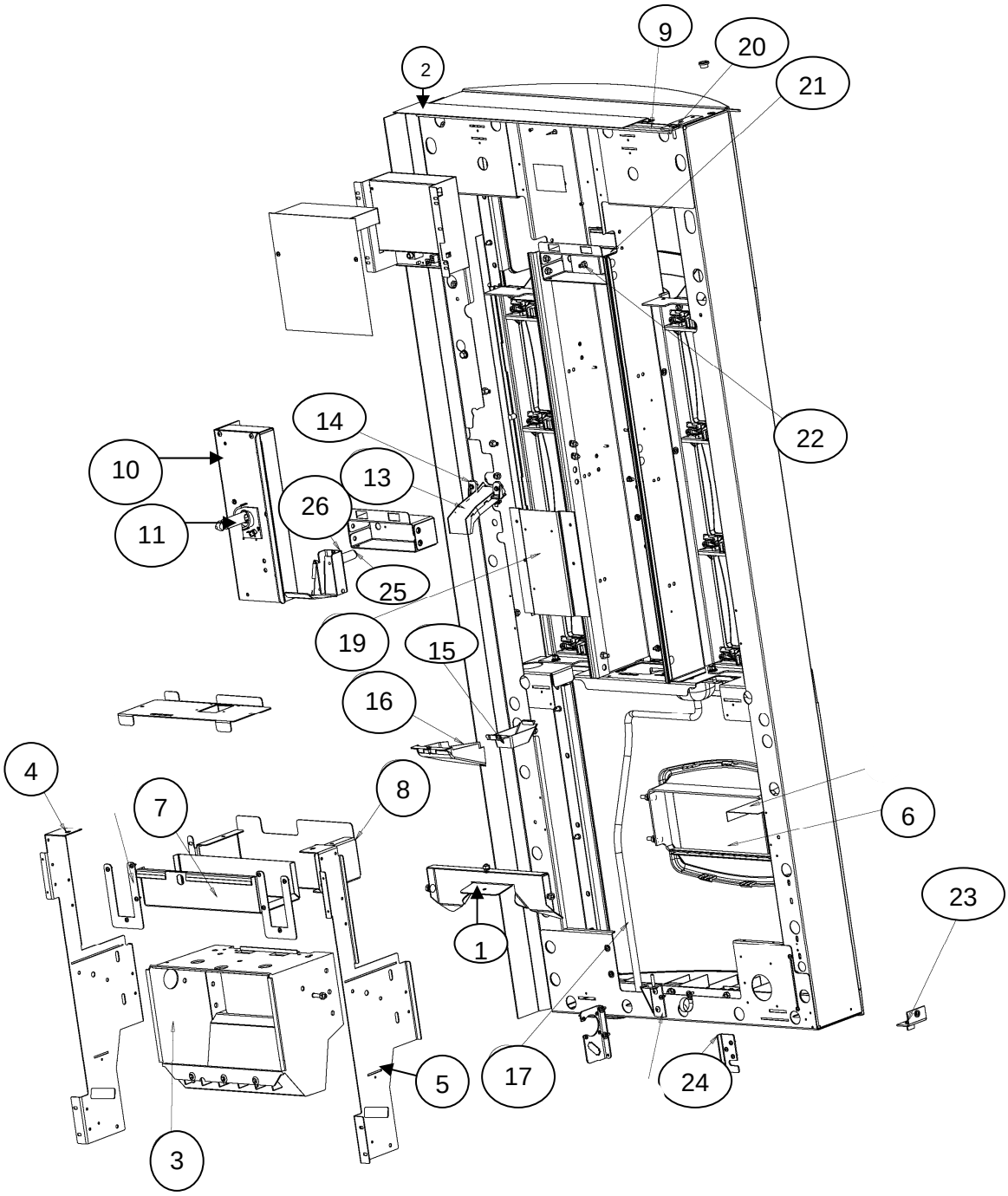


MAIN DOOR EXTERIOR			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Main Door Assembly P-Series - Specify Graphics		
	Blue	640,053,50x.x3	639,054,40x.x3
	Green	640,054,10x.x3	639,055,50x.x3
	Black	640,054,00x.x3	639,055,40x.x3
2	Door Weld Assembly (Specify Color)		
	Blue	631,054,10x.x3	631,050,10x.x3
	Green	631,062,10x.x3	631,054,80x.x3
	Black	631,062,80x.x3	631,063,30x.x3
3	Trim, Side Top		
	Blue	631,051,38x.x3	631,051,41x.x3
	Green	631,050,56x.x3	801,814,97x.x1
	Black	631,050,87x.x3	801,814,45x.x1
4	Trim Cap, Top		
	Blue	801,814,99x.x1	801,814,63x.x1
	Green	801,815,07x.x1	801,814,82x.x1
	Black	801,817,68x.x1	801,814,42x.x1
5	Trim Cap, Bottom		
	Blue	801,815,01x.x1	801,814,76x.x1
	Green	801,815,09x.x1	801,814,84x.x1
	Black	801,817,71x.x1	801,814,41x.x1
6	Trim, Bottom		
	Blue	631,051,39x.x3	631,051,42x.x3
	Green	631,050,58x.x3	801,814,97x.x1
	Black	631,050,88x.x3	801,814,45x.x1
7	Trim Cap, Selection Panel Top		
	Blue	801,815,03x.x1	801,814,64x.x1
	Green	801,815,12x.x1	801,814,86x.x1
	Black	801,817,69x.x1	801,817,77x.x1
8	Trim Cap, Selection Panel Bottom		
	Blue	801,815,05x.x1	801,814,65x.x1
	Green	801,815,14x.x1	801,814,88x.x1
	Black	801,817,70x.x1	801,817,76x.x1
9	Plate, Filler Bill Validator (Specify Color)		
	All	360,050,72x.x3	SAME
10	Sign		
	Pepsi 1st, Top	805,032,63x.x1	805,032,65x.x1
	Pepsi 1st, Bottom	805,034,71x.x1	805,034,69x.x1
	Mountain Dew, Top	805,031,44x.x1	805,031,44x.x1
	Mountain Dew, Bottom	805,038,87x.x1	805,038,86x.x1
	Gatorade, Top	805,033,38x.x1	805,033,35x.x1
	Gatorade, Bottom	805,038,92x.x1	805,038,81x.x1
	Aquafina/Gatorade Top	805,032,69x.x1	805,032,72x.x1
	Aquafina/Gatorade Bottom	805,038,89x.x1	805,038,91x.x1
	Aquafina, Top '04	805,036,36x.x1	805,036,34x.x1
	Aquafina, Bottom '04	805,038,82x.x1	805,038,83x.x1
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

MAIN DOOR EXTERIOR - CONTINUED			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
11	Door Hinge Kit		
	Blue	631,152,90x.x4	SAME
	Green	631,152,80x.x4	SAME
	Black	639,050,70x.x4	SAME
12	Guard, Rain		
	Blue	631,051,16x.x3	631,051,17x.x3
	Green	631,062,60x.x3	631,050,39x.x3
	Black	169,050,34x.x3	164,151,14x.x3
13	Port Trim (Trim, Spacer Bezel)		
	All	801,815,22x.x1	801,814,08x.x1
14	Ramp, Coin		
	Blue	801,814,35x.x1	SAME
	Green	801,814,91x.x1	SAME
	Black	801,817,65x.x1	SAME
15	Center Column Cover		
	All	801,813,70x.x1	SAME
16	Top Column Cover		
	All	801,814,13x.x1	SAME
17	Bottom Column Cover		
	All	801,813,30x.x1	SAME
18	Push Button Coin Return – Not Shown		
	All	801,814,22x.x1	SAME
19	Vandal Panel (Specify Color)		
	Blue	631,050,89x.x3	SAME
	Green	631,050,38x.x3	SAME
	Black	165,150,33x.x3	SAME
20	Door, Stop		
	Blue	631,051,24x.x3	SAME
	Green	631,051,25x.x3	SAME
	Black	631,051,26x.x3	SAME
21	Port Support (Right)		
	All	651,050,18x.x3	SAME
22	Port Support Assy, (Left)		
	All	631,153,20x.x3	SAME
23	Assembly, Select Panel Left		
	Blue	631,056,50x.x3	631,051,70x.x3
	Green	631,062,40x.x3	631,055,10x.x3
	Black	631,063,10x.x3	631,063,70x.x3
24	Assembly, Select Panel Right		
	Blue	631,056,80x.x3	631,051,60x.x3
	Green	631,062,20x.x3	631,054,90x.x3
	Black	631,062,90x.x3	631,063,50x.x3
25	Medallion		
	Pepsi	803,864,94x.x1	SAME
	Mountain Dew	803,864,95x.x1	SAME
	Aquafina	803,874,15x.x1	SAME
	Gatorade	803,870,19x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

MAIN DOOR EXTERIOR - CONTINUED			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
26	Delivery Port Assembly		
	All	631,001,70x.x3	SAME
27	Closure Strip		
	All	609,050,14x.x3	SAME
28	W/A, Cash Box Mount		
	All	631,051,10x.x3	SAME
29	Cash Box		
	All	631,052,10x.x3	SAME
MAIN DOOR EXTERIOR - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Nut, Hex 8/32 Flange	800,801,84x.x1	SAME
A2	Gasket, Poron 1/8x1/8x36	801,814,27x.x1	SAME
A3	Guard, Edge	801,810,07x.x1	SAME
A4	Nut, KEPS 1/4-20	800,801,57x.x1	SAME
A5	Nut, KEPS #10-32	800,801,56x.x1	SAME
A6	Nut, Keps 8-32	800,801,54x.x1	SAME
A7	Bolt, T 8-32x3/4	800,400,61x.x1	SAME
A8	Screw, HI-LO #8-5/8 Hex Washer	800,304,81x.x1	SAME
A9	Screw, 1/4-20x5/8 Hex Type F	800,304,36x.x1	SAME
A10	Screw, 8-32x1/4 Phillips Pan Swage	800,304,34x.x1	SAME
A11	Screw, 8-18x1/2 Phillip Pan SEM	800,304,23x.x1	SAME
A12	Screw, 8-18x1/2 SD Phillip Pan	800,304,18x.x1	SAME
A13	Screw, 10-32x1/2 Machine Truss	800,202,52x.x1	SAME
A14	Bolt, Carriage 1/4-20x3/4	800,202,47x.x1	SAME
A15	Bolt, Carriage 1/4-20x1/2	800,202,45x.x1	SAME
A16	Kit, Lower Door Lock	592,153,80x.x4	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

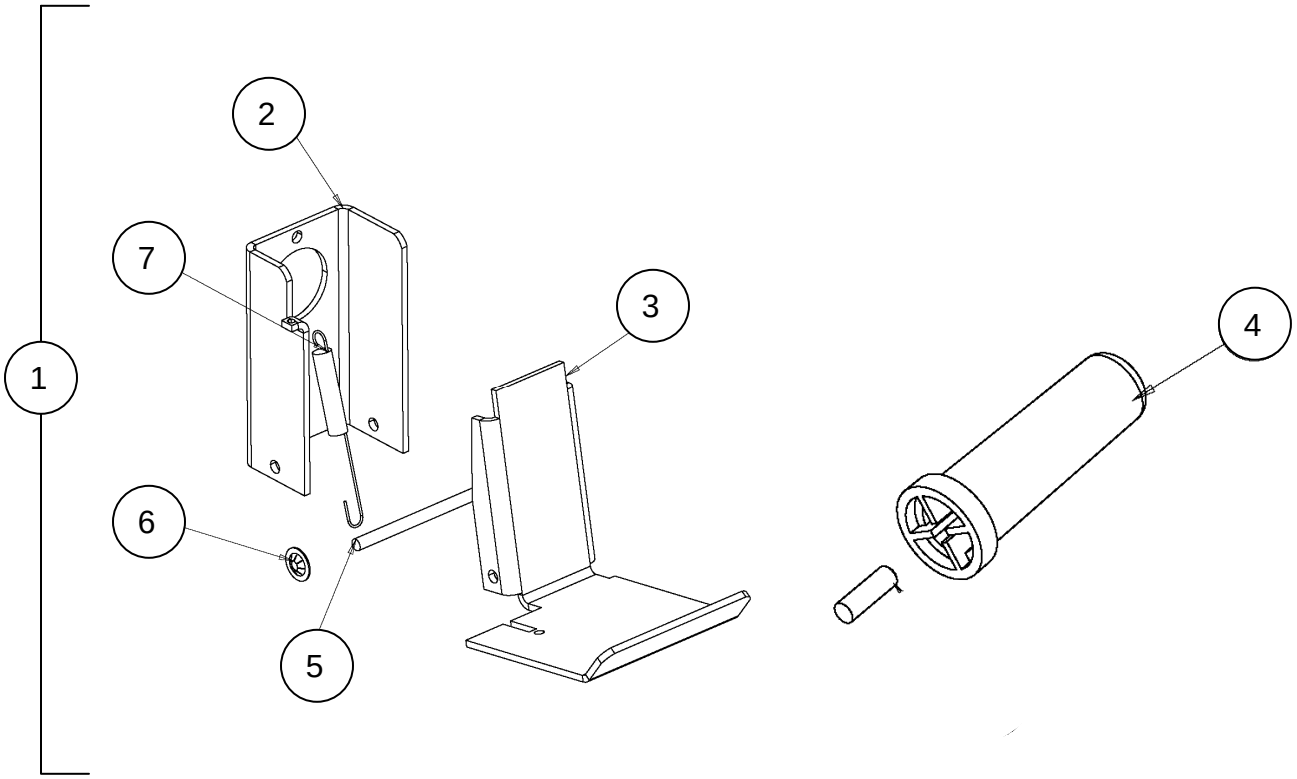
MAIN DOOR INTERIOR (A)



MAIN DOOR INTERIOR (A)			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Closure Strip		
	All	609,050,14x.x3	SAME
2	Rain Guard		
	Blue	631,051,16x.x3	631,051,17x.x3
	Green	631,062,60x.x3	631,050,39x.x3
	Black	169,050,34x.x3	164,151,14x.x3
3	Delivery Port Assembly		
	All	631,001,70x.x3	SAME
4	Port Support (Right)		
	All	651,050,18x.x3	SAME
5	Port Support Assy, (Left)		
	All	631,153,20x.x3	SAME
6	Port Trim (Trim, Spacer Bezel)		
	All	801,815,22x.x1	801,814,08x.x1
7	Cash Box		
	All	631,052,10x.x3	SAME
8	Shelf, Cash Box		
	All	631,051,10x.x3	SAME
9	L Profile Gasket 35”		
	All	803,601,11x.x1	803,601,12x.x1
10	Assembly, Electronic Lock		
	All	805,202,44x.x1	SAME
11	Light Pipe, Electronic Lock		
	All	801,815,42x.x1	801,814,19x.x1
12	Decal, Button – Not Shown		
	All	803,869,25x.x1	SAME
13	Chute, Coin Insert		
	All	801,814,40x.x1	SAME
14	Cover, Coin Insert Chute		
	All	801,814,39x.x1	SAME
15	Chute, Lower Coin		
	Blue	801,814,36x.x1	SAME
	Green	801,815,35x.x1	SAME
	Black	801,817,66x.x1	SAME
16	Ramp, Coin		
	Blue	801,814,35x.x1	SAME
	Green	801,814,91x.x1	SAME
	Black	801,817,65x.x1	SAME
17	Drain Hose		
	All	801,904,03x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

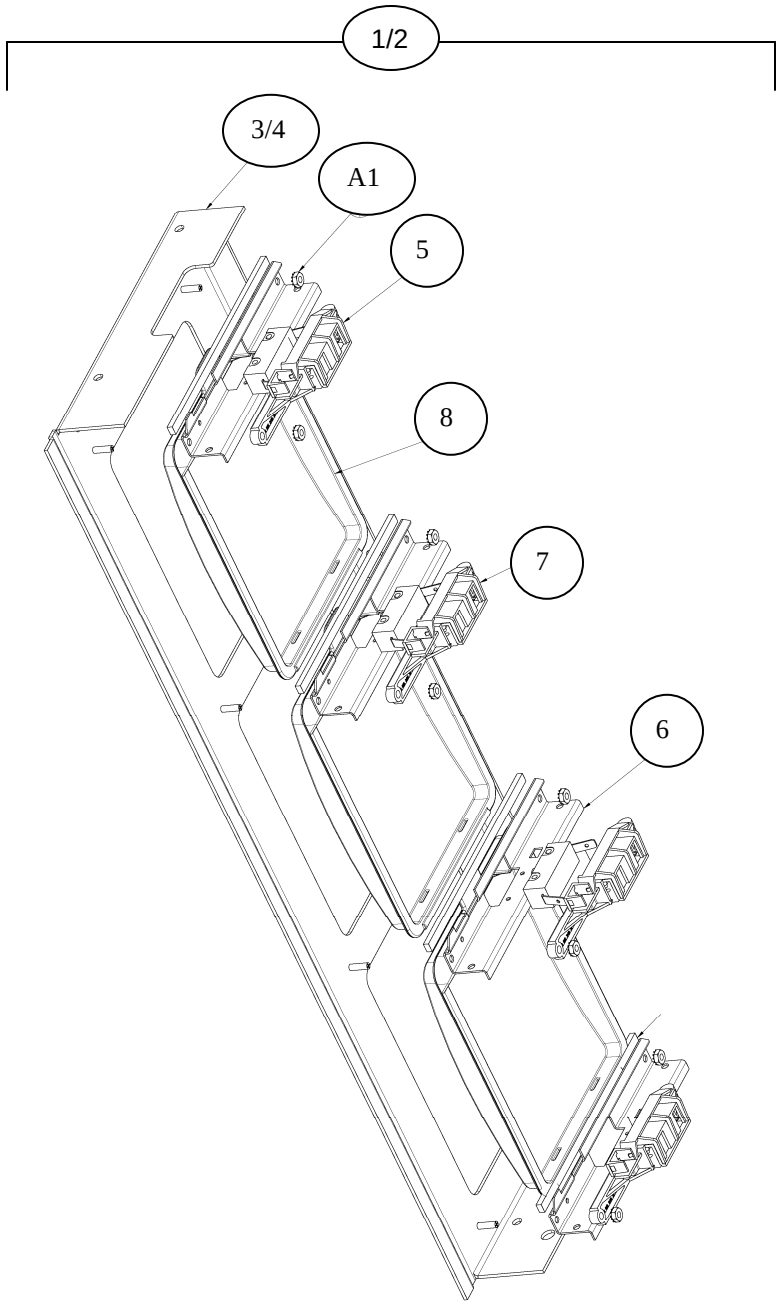
MAIN DOOR INTERIOR (A) CONTINUED			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
18	Cover, Wire Plug – Not Shown		
	All	640,050,06x.x3	631,000,92x.x3
19	Coin Mech Mount		
	All	631,050,13x.x3	SAME
20	Door Hinge Kit		
	Blue	631,152,90x.x4	SAME
	Green	631,152,80x.x4	SAME
	Black	639,050,70x.x4	SAME
21	Rail, Center Column Support		
	All	631,050,54x.x3	SAME
22	Center Column Support		
	All	631,050,44x.x3	SAME
23	Door Stop		
	Blue	631,051,24x.x3	SAME
	Green	631,051,25x.x3	SAME
	Black	631,051,26x.x3	SAME
24	Bracket, Mounting Door Stop		
	Blue	592,051,19x.x3	SAME
	Green	631,050,41x.x3	SAME
	Black	592,051,19x.x3	SAME
25	Coin Return Button Assembly		
	All	801,814,22x.x1	SAME
26	Coin Return Assembly		
	All	631,052,00x.x3	SAME
MAIN DOOR INTERIOR (A) - MISCELLANEOUS			
A1	Nut, Hex 8/32 Flange	800,801,84x.x1	SAME
A2	Gasket, Poron 1/8x1/8xWidth	801,815,40x.x1	801,814,27x.x1
A3	Guard, Edge	801,810,07x.x1	SAME
A4	Nut, KEPS 1/4-20	800,801,57x.x1	SAME
A5	Nut, KEPS #10-32	800,801,56x.x1	SAME
A6	Nut, Keps 8-32	800,801,54x.x1	SAME
A7	Bolt, T 8-32x3/4	800,400,61x.x1	SAME
A8	Screw, HI-LO #8-5/8 Hex Washer	800,304,81x.x1	SAME
A9	Screw, 1/4-20x5/8 Hex Type F	800,304,36x.x1	SAME
A10	Screw, 8-32x1/4 Phillips Pan Swage	800,304,34x.x1	SAME
A11	Screw, 8-18x1/2 Phillip Pan SEM	800,304,23x.x1	SAME
A12	Screw, 8-18x1/2 SD Phillip Pan	800,304,18x.x1	SAME
A13	Screw, 10-32x1/2 Machine Truss	800,202,52x.x1	SAME
A14	Bolt, Carriage 1/4-20x3/4	800,202,47x.x1	SAME
A15	Bolt, Carriage 1/4-20x1/2	800,202,45x.x1	SAME
A16	Tie, Cable 14"	901,902,44x.x1	SAME
A17	Tie, Cable 7 1/2"	901,902,01x.x1	SAME
A18	Clamp, Cable 1" Heyco 3390	901,901,89x.x1	SAME
A19	Nut, Hex 8/32 Flange w/washer	800,801,84x.x1	SAME
A20	Poron Strip	801,816,09x.x1	801,814,27x.x1
A21	Screw, 8-18x1/2	800,304,31x.x1	SAME
A22	Screw, 6-20x3/8 Phillip Pan	800,304,77x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

MAIN DOOR INTERIOR (B)



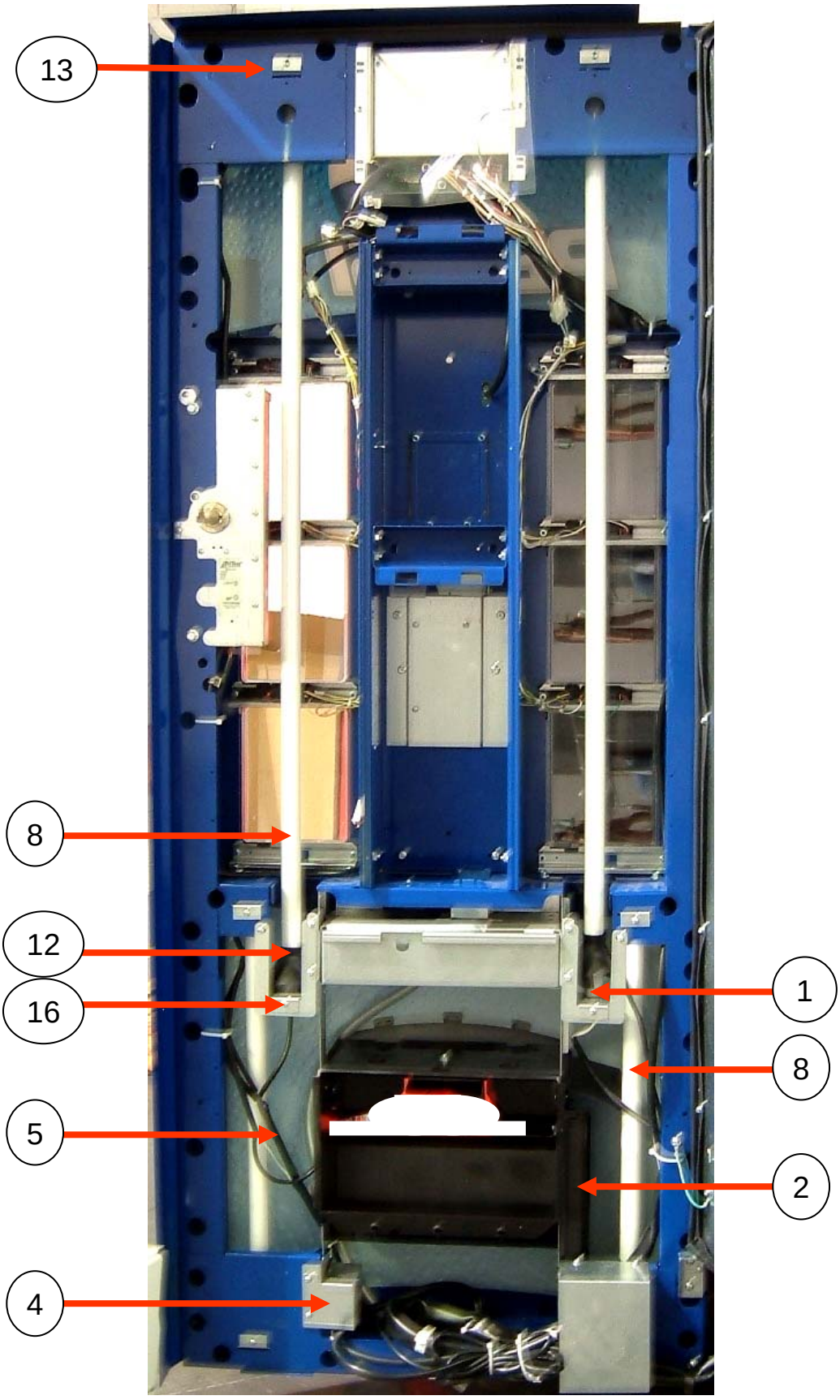
MAIN DOOR INTERIOR (B)		
ITEM	**PART DESCRIPTION**	**All**
1	Coin Return Assembly	
	All	631,052,00x.x3
2	Bracket, Coin Return Mount	
	All	631,050,18x.x3
3	Rocker, Coin Return	
	All	631,050,17x.x3
4	Coin Return Button Assembly	
	All	801,814,22x.x1
5	Roller Pin 5/32X2-3/8 ZINC	
	All	800,503,78x.x1
6	Retainer, Roller Pin	
	All	900,900,90x.x1
7	Spring, Coin Return	
	All	901,700,63x.x1
8	Screw, Phillip 8-18x1/2	
	All	800,304,18x.x1
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by		

SELECT PANEL



SELECT PANEL			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Select Panel Assembly, Left		
	Blue	631,056,50x.x3	631,051,70x.x3
	Green	631,062,40x.x3	631,055,10x.x3
	Black	631,063,10x.x3	631,063,70x.x3
2	Select Panel Assembly, Right		
	Blue	631,056,80x.x3	631,051,60x.x3
	Green	631,062,20x.x3	631,054,90x.x3
	Black	631,062,90x.x3	631,063,50x.x3
3	Stud Assembly, Select Panel Left		
	Blue	631,056,70x.x3	631,051,90x.x3
	Green	631,062,50x.x3	631,055,20x.x3
	Black	631,063,20x.x3	631,063,80x.x3
4	Stud Assembly, Select Panel Right		
	Blue	631,056,90x.x3	631,051,80x.x3
	Green	631,062,30x.x3	631,055,00x.x3
	Black	631,063,00x.x3	631,063,60x.x3
5	Select Switch		
	All	804,101,13x.x1	SAME
6	Bracket, Selection Panel, Select Switch		
	All	631,050,64x.x3	631,050,16x.x3
7	Assembly, Select Switch and SO Holder		
	All	801,815,33x.x1	SAME
8	Select Button		
	All	801,814,01x.x1	SAME
9	Decal, Button		
	All	803,869,25x.x1	SAME
10	Light, Sold Out, Red/Green – Not Shown		
	All	804,700,75x.x1	SAME
SELECTION PANEL - MISCELLANEOUS			
A1	Nut, KEPS 8-32	800,801,54x.x1	SAME
A2	Gasket, 1/4x154x13 Poron	801,815,39x.x1	801,814,25x.x1
A3	Screw, 8-18x1/2 Phillip Pan SEM	800,304,23x.x1	SAME
A4	Screw, TAP 1/4-20x1 Hex SEM	800,304,26x.x1	SAME
A5	Bolt, Carriage 1/4-20x1	800,202,42x.x1	SAME
A6	Poron Strip	801,816,09x.x1	801,814,27x.x1
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

T8 LIGHTING



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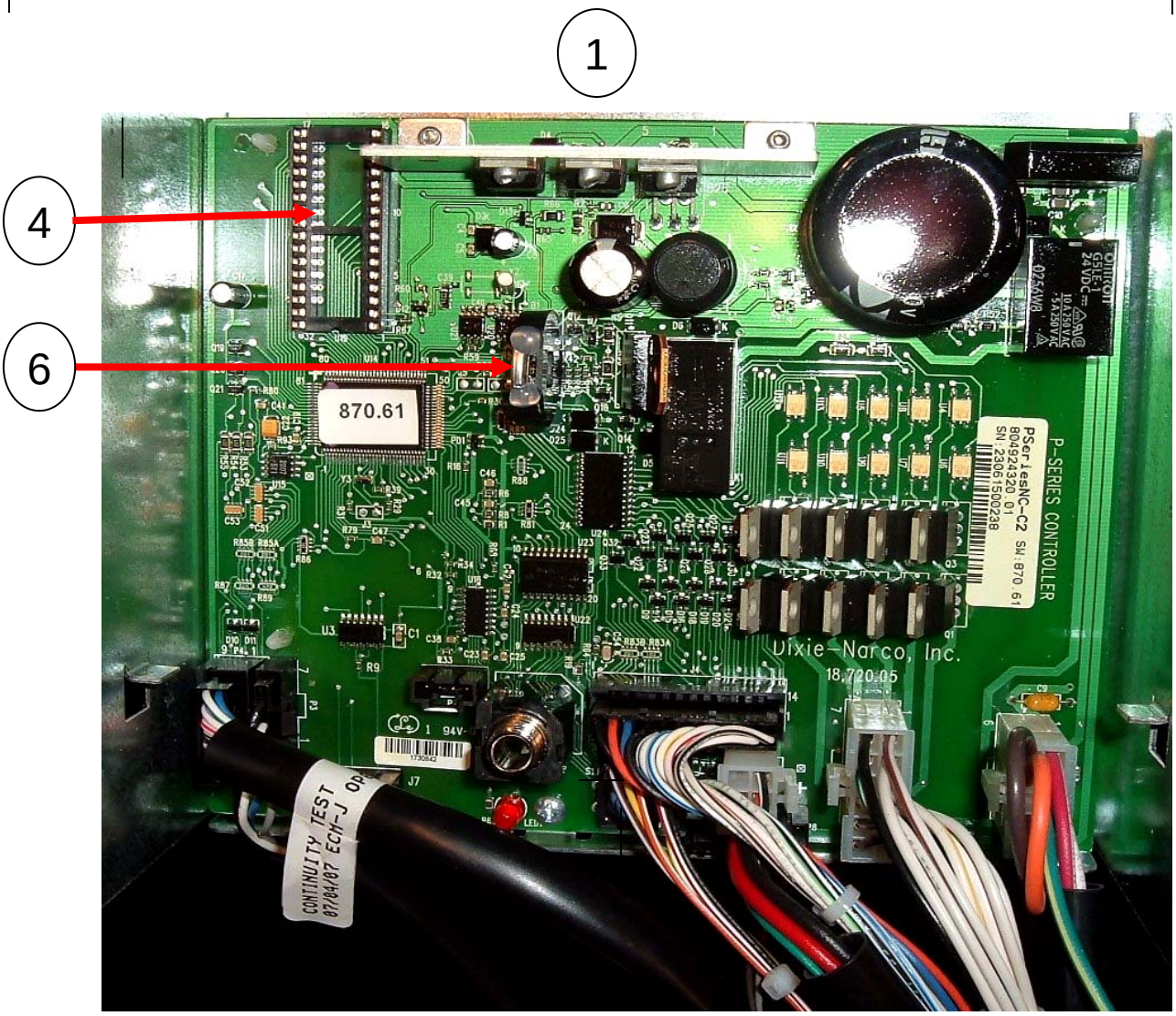
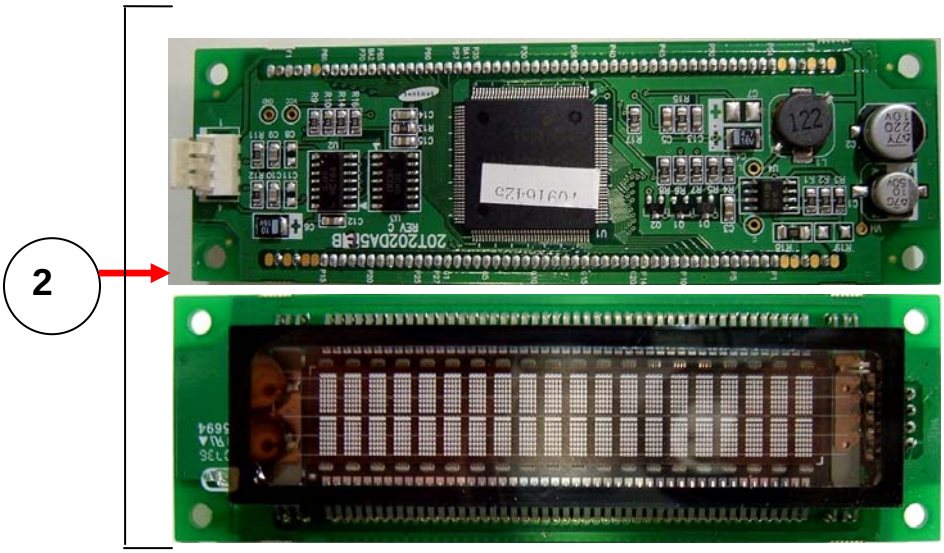
T8 LIGHTING			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Assembly, T8 Light		
	All	640,052,60x.x3	640,050,20x.x3
2	Ballast T8		
	All	804,400,61x.x1	SAME
3	Cover, Ballast KYDEX – Not Shown		
	All	801,817,43x.x1	SAME
4	Cover, Choke		
	All	640,050,08x.x3	SAME
5	T8 Lighting Harness - Not Shown		
	All	804,920,27x.x1	804,918,34x.x1
6	Choke, 5mH 6A FOSTER A-16015		
	All	804,926,93x.x1	SAME
7	Harness, Choke – Not Shown		
	All	804,921,11x.x1	SAME
8	T8 Lamp		
	FL T8 4' OS#21720 F32T8/TL865	804,700,76x.x1	SAME
	FL T8 2' OS#21718 F17T8/TL865	804,700,77x.x1	SAME
9	Shield, Light, KYDEX – Not Shown		
	All	NA	801,904,24x.x1
10	Top Lampholder T8 Leviton 518		
	Must be purchased in assembly	804,920,27x.x1	804,918,34x.x1
11	Bottom Lampholder T8 Leviton 519		
	Must be purchased in assembly	804,920,27x.x1	804,918,34x.x1
12	Fluorescent Lamp Boot		
	All	802,001,44x.x1	SAME
13	Bracket, Top Socket Top Lamp		
	All (4)	562,050,04x.x3	SAME
14	Bracket, Bottom Socket, Top Lamp		
	All (2) - Not Shown	631,050,79x.x3	562,050,04x.x3
15	Bracket, Bottom Lamp Socket, Fold Over		
	All (2) – Not Shown	631,000,98x.x3	SAME
16	Bracket, Lamp Door T8		
	All (2)	631,050,61x.x3	631,001,26x.x3
T8 LIGHTING - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Nut, KEPS 1/4-20	800,801,57x.x1	SAME
A2	Screw, 8-18x1/2 Phillip Pan	800,304,18x.x1	SAME
A3	Screw, 10-32x1 1/4 Phillip Pan Type F	800,304,28x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

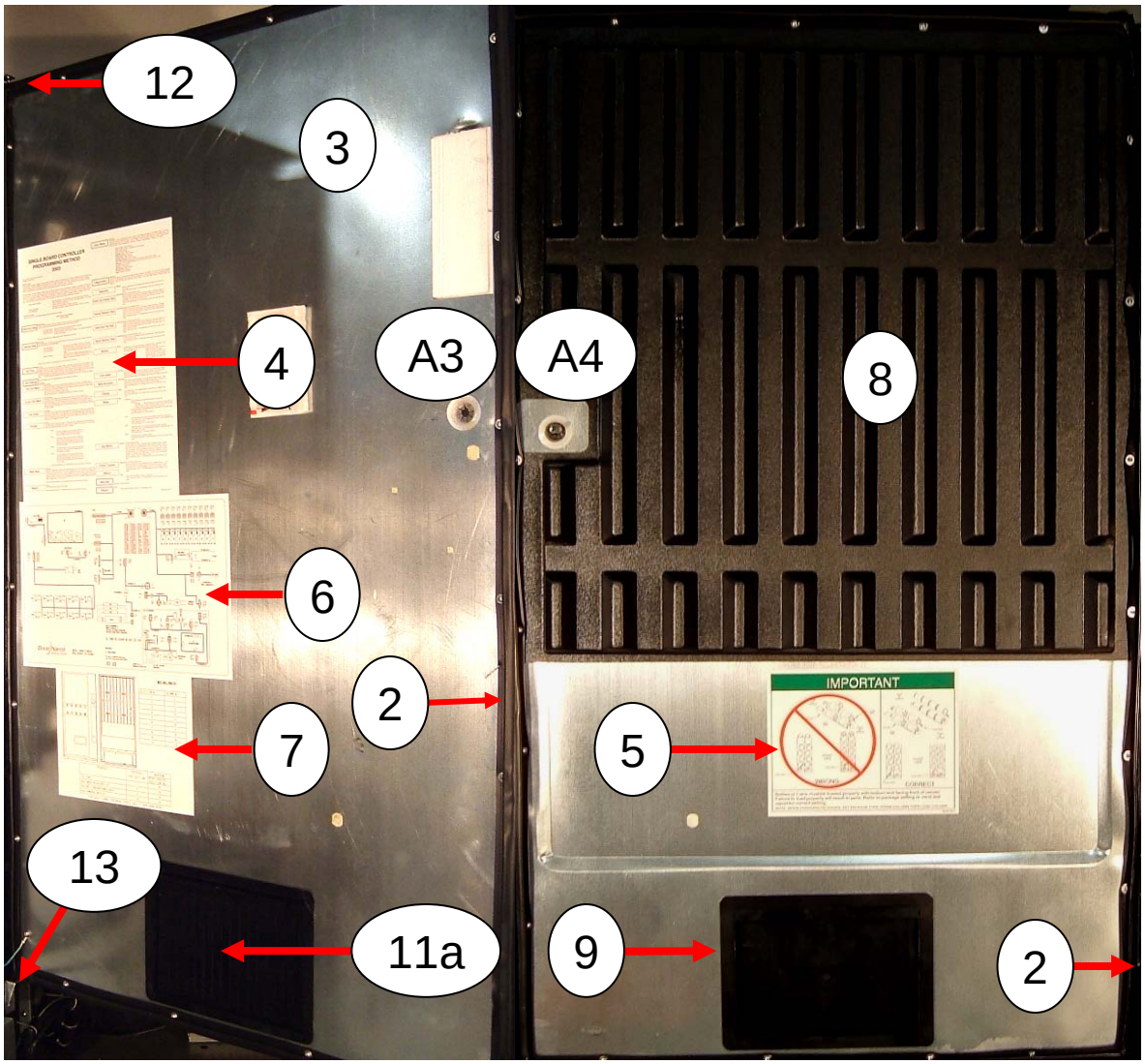
ELECTRONIC COMPONENTS





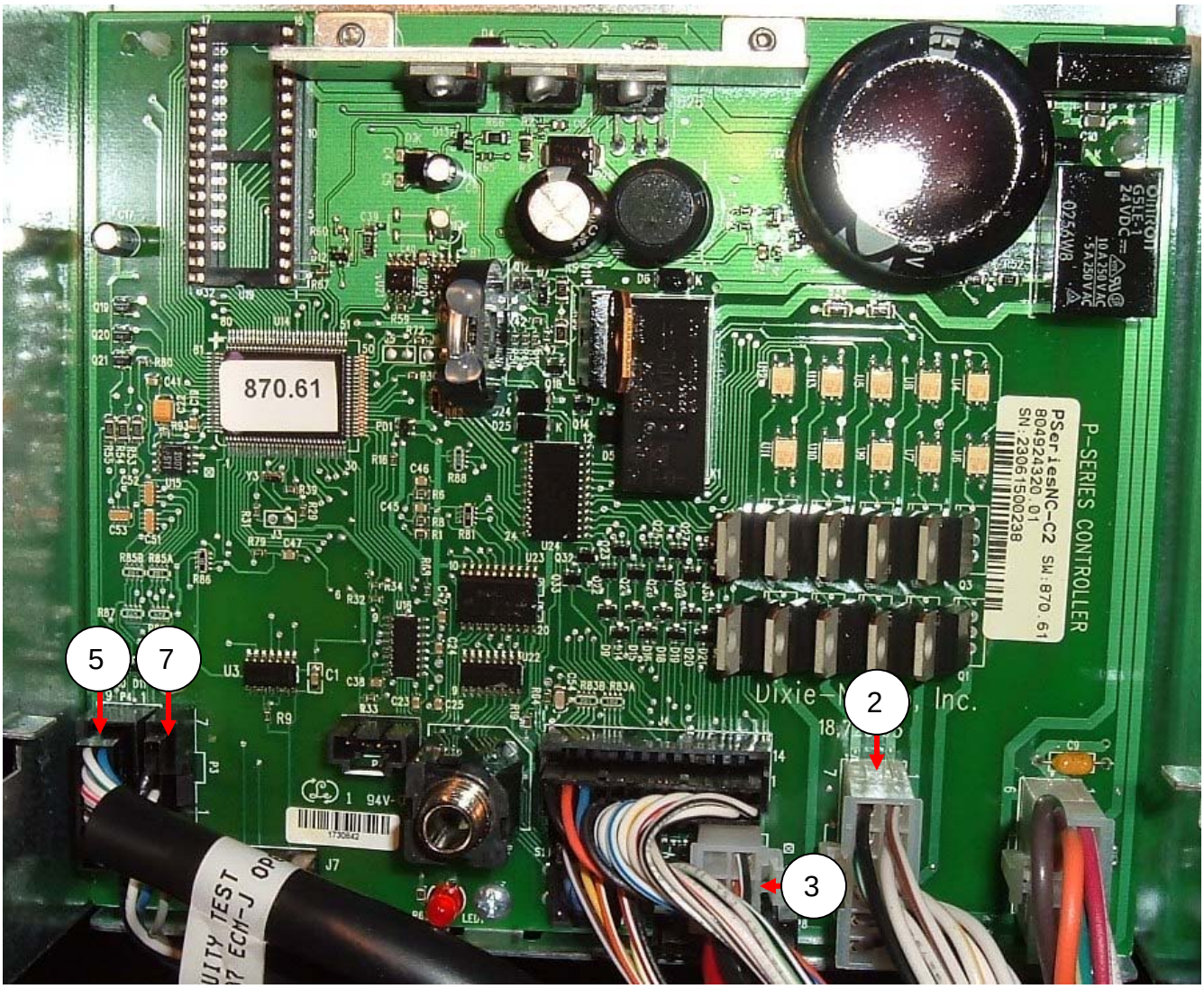
ELECTRONIC COMPONENTS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Control Board Assembly SBC		
	All	640,010,10x.x3	SAME
2	Display Board		
	All	804,918,69x.x1	SAME
3	Controller Cover - Not Shown	801,306,16x.x1	SAME
4	EPROM	804,920,87x.x1	SAME
5	Rain Curtain, Control Board - Not Shown	801,904,23x.x1	SAME
6	Battery, 3V Lithium (CR2032)	804,920,45x.x1	SAME
7	Assembly, Electronic Lock – Not Shown		
	All	805,202,44x.x1	SAME
8	Light Pipe, Electronic Lock – Not Shown		
	All	801,815,42x.x1	801,814,19x.x1
9	Transformer, CL2 UL1585 – Not Shown		
	All	804,925,96x.x1	SAME
10	Assembly, Lock Strike, Electronic – Not Shown		
	All	639,050,80x.x3	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

INNER DOOR


12
3
4
A3
A4
8
6
2
7
5
IMPORTANT
13
11a
9
2
Main Door Side
Cabinet Side
1

INNER DOOR			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Inner Door Assembly		
	All	640,052,70x.x3	639,052,90x.x3
2	Inner Door Gasket		
	All	801,819,05x.x1	801,819,04x.x1
3	Sub Assembly Inner Door		
	All	640,050,70x.x3	639,050,30x.x3
4	Label, Programming		
	All	803,870,25x.x1	SAME
5	Loading Instruction		
	All	803,881,63x.x1	SAME
6	Wiring Diagram		
	All	803,881,67x.x1	803,881,68x.x1
7	Label, Button/Stack		
	All	803,881,32x.x1	803,881,33x.x1
8	Gate, Front Product Positioner		
	All	801,821,57x.x1	801,821,56x.x1
9	Discharge Frame Retainer		
	All	801,809,15x.x1	SAME
10	Assembly, Discharge Frame		
	All	801,809,16x.x1	SAME
11a	Assembly, Discharge Door		
	All	801,809,17x.x1	SAME
11b	Frame, Discharge		
	All	801,809,14x.x1	SAME
11c	Rod, Hinge (Not Shown)		
	All	801,401,70x.x1	SAME
12	Inner Door, Top Hinge, Weld Assembly		
	All	169,053,00x.x3	SAME
13	Inner Door, Bottom Hinge, Weld Assembly		
	All	169,051,10x.x3	SAME
INNER DOOR - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Carriage Bolt ¼-20x¼	800,202,43x.x1	SAME
A2	Screw, SD Phil Pan Sems	800,304,23x.x1	SAME
A3	Inner Door Bushing (Bearing)	801,806,42x.x1	SAME
A4	Bushing Retainer	801,806,43x.x1	SAME
A5	Plastic Bearing (Not Shown)	901,803,71x.x1	SAME
A6	Inner Door Lock Kit	631,151,20x.x4	SAME
A7	Screw, 10-32x1/2 Machine Truss (4)	800,202,52x.x1	SAME
A8	Nut, KEPS #10-32 (4)	800,801,56x.x1	SAME
A9	Knob, Pull	NA	901,501,70x.x1
A10	Bolt, Carriage 1/4-20x1 1/14	NA	800,202,43x.x1
A11	Block, Service Door Top Hinge	805,411,13x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

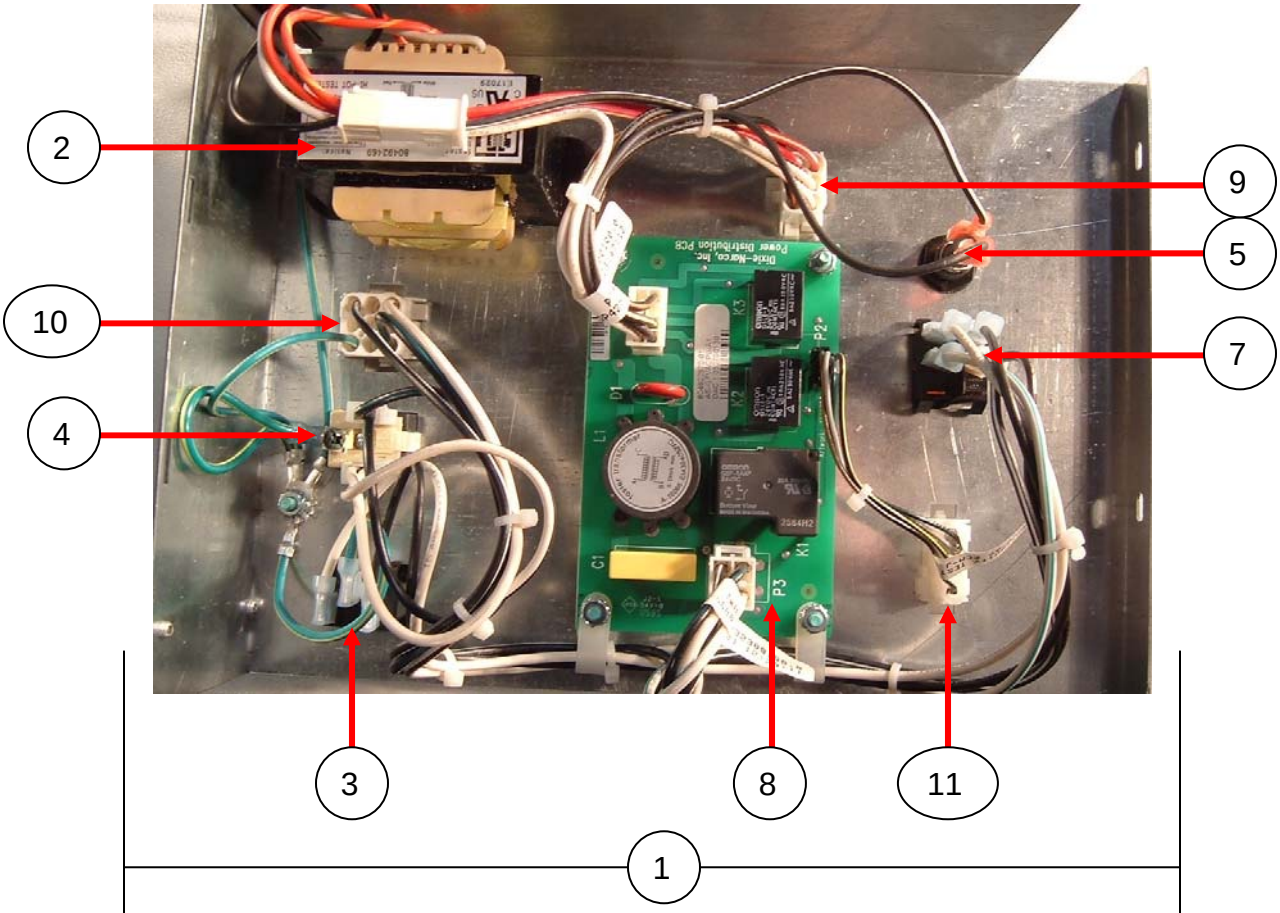
HARNESSING – SINGLE BOARD CONTROLLER (SBC)

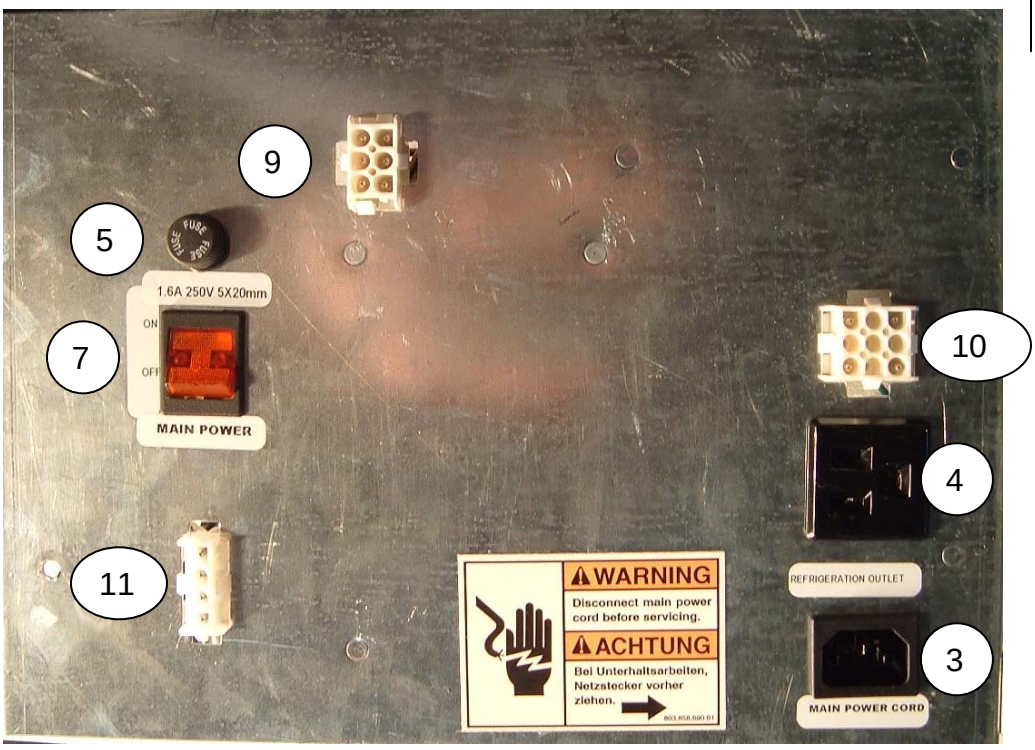


P1	Motor
P2	Secondary DEX
P3	Display
P4	Select Switches
P5	Temp Sensor
P7	MDB
P8	Energy Management
J1	AC Power
J2	DEX
J4	Cam / Sold Out
J7	Optional
B1	Battery
S1	Service Switch

HARNESSING Single Board (SBC)			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Motor Harness (Stack)		
	All	000410	000596
2	Harness, P-Series Door		
	All	804,926,38x.x1	SAME
3	Harness, MDB and Lock Power		
	All	804,919,19x.x1	SAME
4	Jumper, Electronic Lock		
	All	804,918,66x.x1	SAME
5	Harness, Selection Panel		
	Common Harness	804,919,16x.x1	SAME
	Left Panel	804,919,73x.x1	804,919,17x.x1
	Right Panel	804,919,74x.x1	804,919,18x.x1
6	66” DEX Harness		
	All	804,907,83x.x1	SAME
7	Display Harness (P3 to display board)		
	All	804,919,21x.x1	SAME
8	Secondary DEX Harness	804,913,97x.x1	SAME
9	Harness, Electronic Lock and Switch	804,926,59x.x1	SAME
10	Extension, AC Distribution Box	804,923,81x.x1	SAME
11	Power Cord, Detachable GFCI	651,010,00x.x3	SAME
12	Key Switch Kit	626,020,44x.x4	SAME
13	Temperature Sensor, Encapsulated	804,925,43x.x1	SAME
HARNESSING Single Board (SBC) - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Nut, DEX Harness	800,801,65x.x1	SAME
A2	Tie, Wire 7 1/2"	901,902,01x.x1	SAME
A3	Screw, 4-24x1/2 Phillip Pan Type B	800,304,79x.x1	SAME
A4	Wire, Ground 4"	804,902,61x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

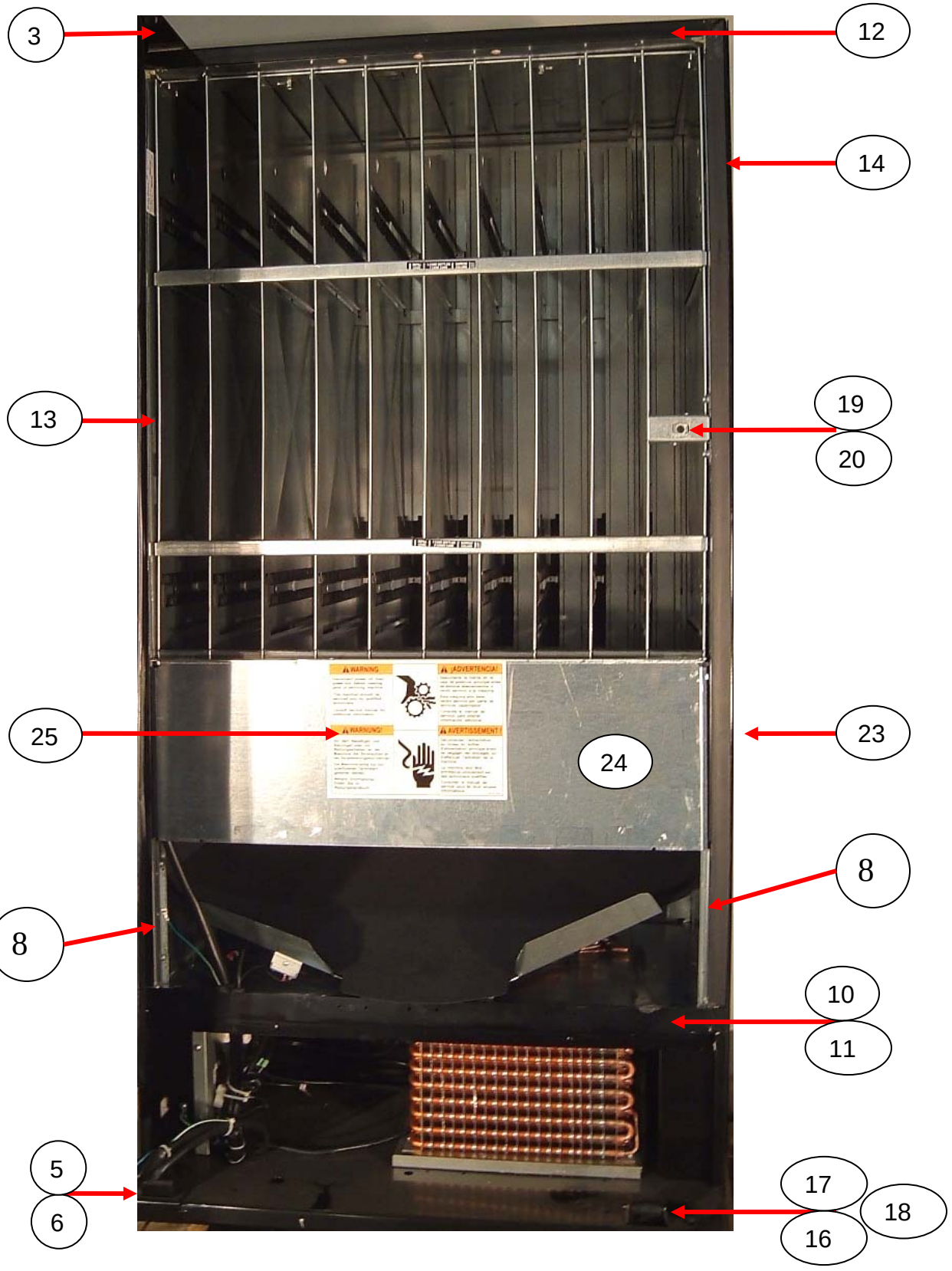
POWER DISTRIBUTION





POWER DISTRIBUTION		
ITEM	**PART DESCRIPTION**	**ALL**
1	Power Distribution Box Assembly 115/60	639,030,90x.x3
2	Transformer, CL2 UL1585	804,925,96x.x1
3	Power Inlet Plug	804,913,62x.x1
4	Refrigeration Outlet	W662
5	Fuse Holder, 5x20mm	804,925,46x.x1
6	Fuse, 1.6A	804,800,71x.x1
7	Rocker Switch, Illuminated, Amber	804,101,18x.x1
8	Relay Board Assembly, AC Distribution	804,925,27x.x1
9	AC Input Harness	804,923,23x.x1
10	AC Outlet Harness	804,923,24x.x1
11	Power Distribution Relay Harness	804,923,25x.x1
12	AC Distribution Harness 103"	804,923,81x.x1
13	Bracket, Mounting Power Dist Box	639,030,08x.x3
14	Power Cord, Detachable GFCI, 156”	804,926,51x.x1
POWER DISTRIBUTION - MISCELLANEOUS		
ITEM	**PART DESCRIPTION**	**ALL**
A1	Label, 1.6A Fuse	803,868,03x.x1
A2	Label, Refrigeration Outlet	803,868,04x.x1
A3	Label, Main Power	803,860,85x.x1
A4	Label, Main Power Inlet	803,876,84x.x1
A5	Label, ON/OFF Rocker Switch	803,879,72x.x1
A6	Edge, Trim Rubber	801,814,53x.x1
A7	Nut, KEPS 8-32	800,801,54x.x1
A8	Spacer, Nylon, #8 ID, .312 OD, .5	801,818,13x.x1
A9	Clamp, P Nylon Cable, 5/16" White	800,902,51x.x1
A10	Rivet, 1/8" Steel	801,100,81x.x1
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by		

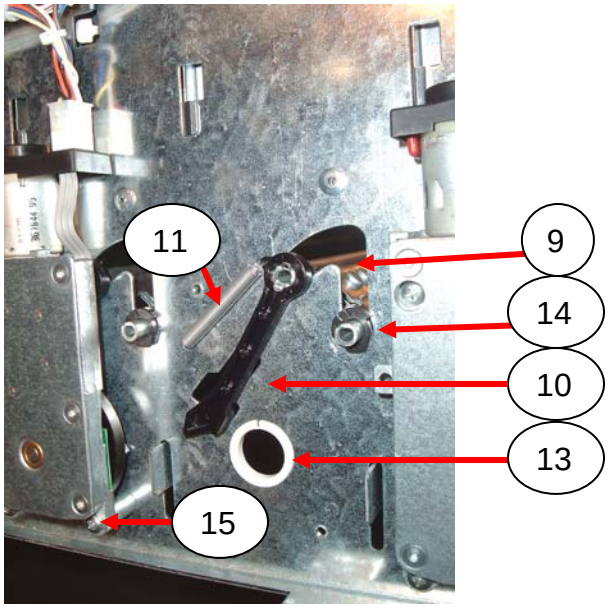
CABINET AND VEND MECHANISM
(SECTION 1)

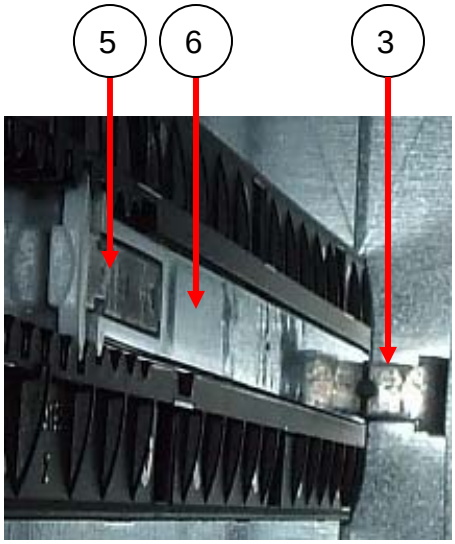


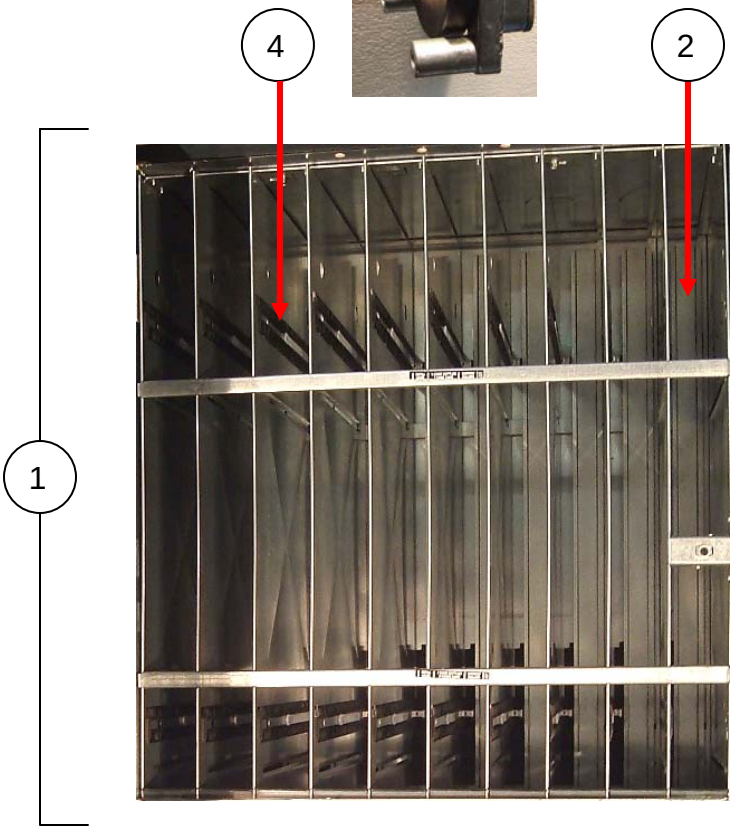
CABINET AND VEND MECHANISM (Section 1)			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Cover, Hinge Pocket – Not Shown		
	All	631,051,07x.x3	SAME
2	Weld assembly Top Hinge (Main Door)		
	Blue	631,156,30x.x3	SAME
	Green	631,156,20x.x3	SAME
	Black	631,156,10x.x3	SAME
3	Door Hinge Kit		
	Blue	631,152,90x.x4	SAME
	Green	631,152,80x.x4	SAME
	Black	639,050,70x.x4	SAME
4	Hinge, Spacer		
	All	169,000,15x.x3	SAME
5	Hinge, Bottom Assembly (Main Door)		
	All	631,152,40x.x3	SAME
6	Sleeve, bottom hinge	900,502,64x.x1	SAME
7	Block, Foam	903,300,77x.x1	SAME
8	Stack Supports (4)	651,070,02x.x3	SAME
9	Ingress Guard Assembly – Not Shown		
	All	640,071,40x.x3	639,076,00x.x3
10	Mullion	801,819,57x.x1	801,819,58x.x1
11	Mullion Cap	801,818,92x.x1	801,818,93x.x1
12	Breaker Strip - Top	493,020,06x.x3	491,020,17x.x3
13	Breaker Strip - Left	639,020,05x.x3	SAME
14	Breaker Strip - Right	639,020,09x.x3	SAME
15	Bearing, Hinge – Pin less	805,300,67x.x1	SAME
16	Roller, Main Door	901,806,20x.x1	SAME
17	Pin, Door Roller 5/32x2-3/8	800,503,78x.x1	SAME
18	Retainer, Door Roller Pin	900,900,90x.x1	SAME
19	Lock Housing Assembly		
	All	639,050,80x.x3	SAME
20	Receptacle, Electronic Lock, Vertical		
	All	805,202,58x.x1	SAME
21	Cabinet Assembly		
	All	639,060,30x.x3	651,060,10x.x3
22	Plate, Protective Left Side (Specify Color)		
	Blue	594,020,14x.x3	SAME
	Green	649,000,05x.x3	SAME
	Black	649,000,01x.x3	SAME
23	Plate, Protective Right Side Cabinet (Specify Color)		
	Blue	165,000,04x.x3	SAME
	Green	649,000,06x.x3	SAME
	Black	649,000,02x.x3	SAME
24	Assy, Vend Motor Cover	640,071,70x.x3	639,072,70x.x3
25	Label, Vend Motor Cover	803,871,19x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

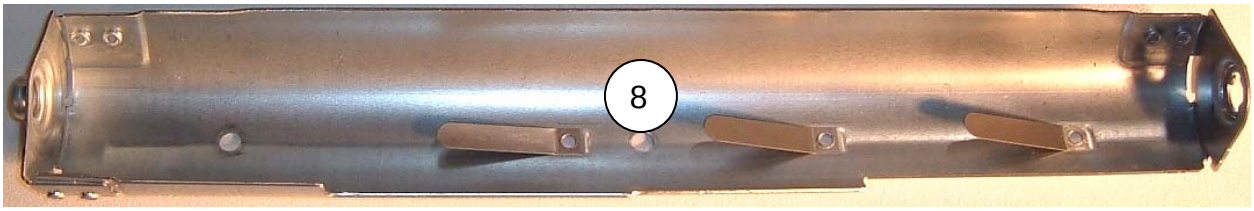
CABINET AND VEND MECHANISM - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Bolt, Carriage ¼ - 20 x 1 ¼ (3)	800,202,43x.x1	SAME
A2	Bolt, Carriage 5/16 – 18 x 1 ¼ (1)	800,202,54x.x1	SAME
A3	Screw, Tap 1/4-20x1 Hex Type F	800,304,26x.x1	SAME
A4	Screw, Phil Pan 8 – 18 x ½ (1)	800,304,18x.x1	SAME
A5	Nut, Hex Jam 5/16 - 18	800,801,61x.x1	SAME
A6	Leveling Leg, 5/8-11x2 1/16"	800,503,79x.x1	SAME
A7	Side Decals		
	Pepsi 1st	803,871,86x.x1	SAME
	Mountain Dew	803,878,28x.x1	SAME
	Gatorade	803,878,23x.x1	SAME
	Gatorade/Aquafina	803,878,38x.x1	SAME
	Aquafina '04	803,878,24x.x1	SAME
A8	1/4 Drive Rivet	901,100,44x.x1	SAME
A9	Rivet, 1/4" Aluminum	901,100,43x.x1	SAME
A10	Hole Plug, Snap In - 1 ¼	801,819,69x.x1	SAME
A11	Washer, Door Hinge	800,701,73x.x1	SAME
A12	Clamp, P, 1/4"	900,902,32x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

CABINET AND VEND MECHANISM
(SECTION 2)

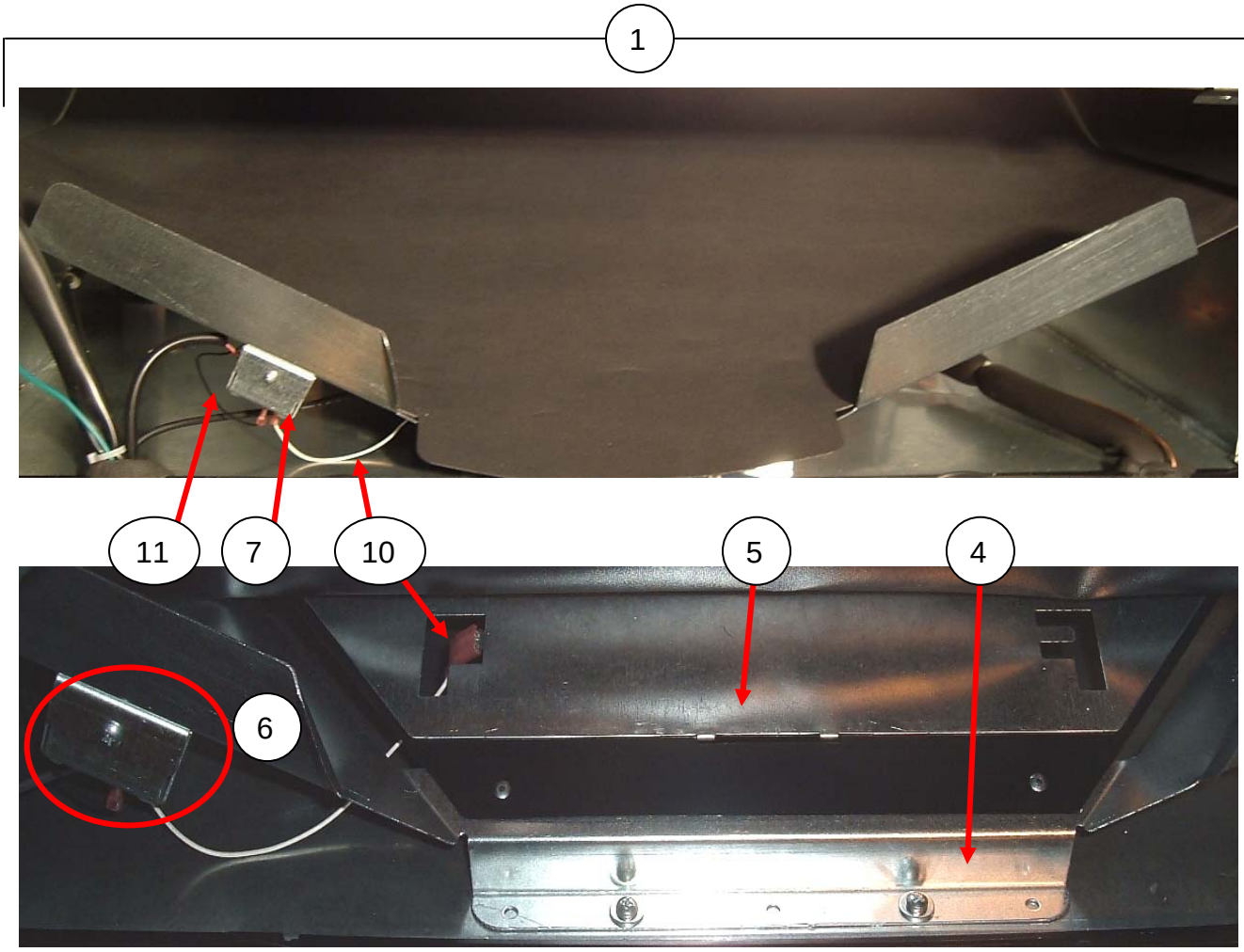








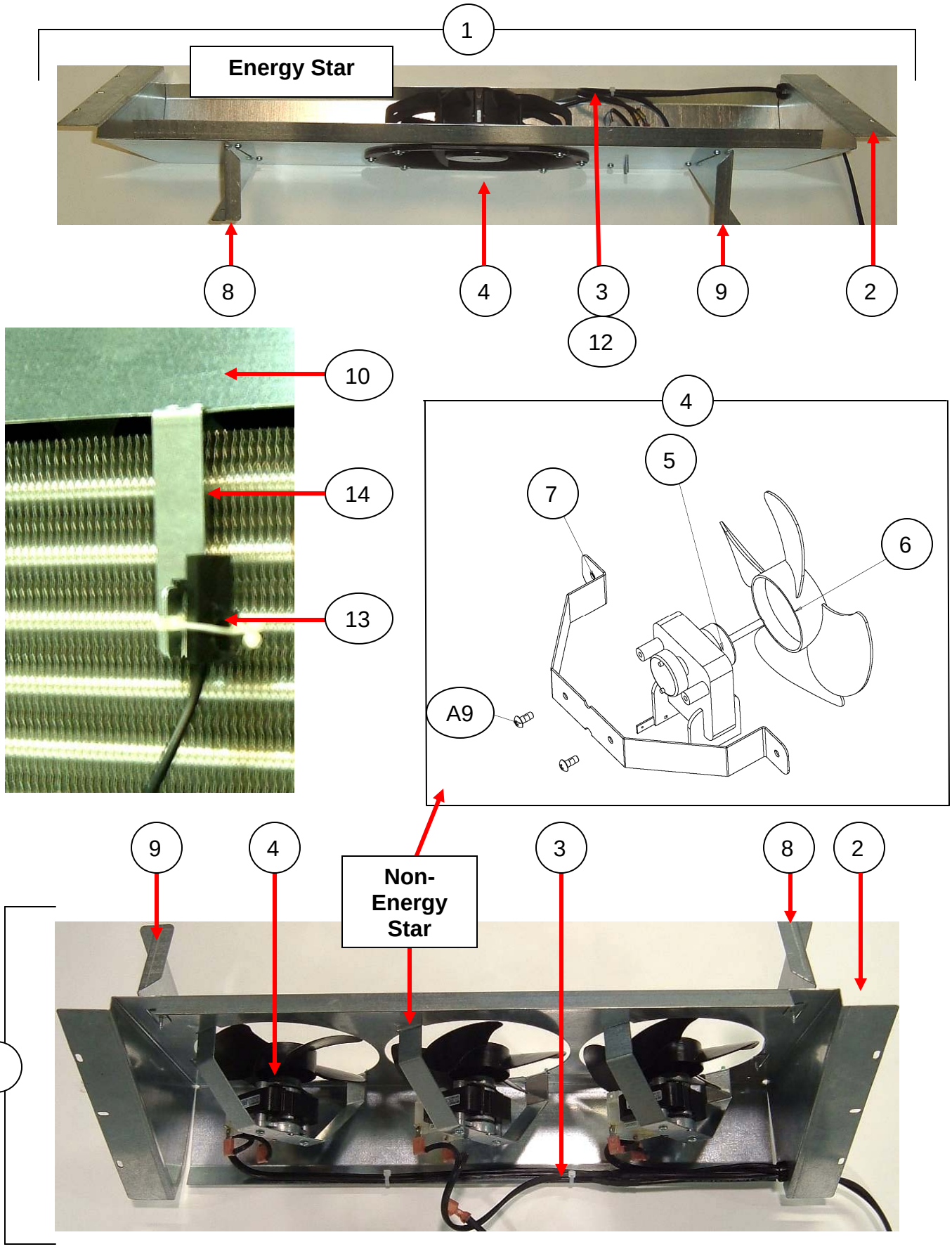
CABINET AND VEND MECHANISM (Section 2)			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Stack Assembly	652,070,20x.x3	651,070,20x.x3
2	Assembly Rear Spacer Narrow	639,070,27x.x3	SAME
3	Bracket, Rear Spacer Narrow (2)	801,819,56x.x1	SAME
4	Guide, Channel Rear Spacer (2)	801,819,59x.x1	SAME
5	Latch, Rear Spacer (2)	801,819,61x.x1	SAME
6	Guide Arm Assembly (2)	805,202,57x.x1	SAME
7	Vend Motor - Narrow Column	804,501,63x.x1	SAME
8	Rotor	801,307,87x.x1	SAME
9	Load Bar - Steel	801,306,59x.x1	SAME
10	Push Arm	801,819,55x.x1	SAME
11	Push Arm Spring	801,701,51x.x1	SAME
12	Nyliner .312 – Not Shown	801,819,53x.x1	SAME
13	Nyliner .750	801,819,52x.x1	SAME
14	Bushing, Load Bar .312	801,819,54x.x1	SAME
15	Screw, Phil Pan 8-32x1 (3)	800,304,92x.x1	SAME
16	Vend Motor Cover – Not Shown	640,071,70x.x3	639,072,70x.x3
17	Front Gate Extension – Not Shown		
	All	639,070,14x.x3	SAME
18	Air Baffle, KYDEX – Not Shown		
	All Wide	NA	639,070,68x.x3
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			



CHUTE ASSEMBLY			
ITEM	PART DESCRIPTION	DN504P	DN720P
1	Chute Assembly	640,071,80x.x3	639,072,80x.x3
2	Chute	805,702,54x.x1	805,702,53x.x1
3	Liner, Chute	801,904,81x.x1	801,904,78x.x1
4	Support, Sensor Plate	640,070,27x.x3	639,070,33x.x3
5	Vend Sensor Plate	640,070,28x.x3	639,070,34x.x3
6	Vend Sensor Assembly, Service Kit	639,010,00x.x3	SAME
7	Cover, Sensor Housing	639,070,39x.x3	SAME
8	Housing, Vend Sensor	639,070,41x.x3	SAME
9	Board, Vend Sensor	804,925,26x.x1	SAME
10	Jumper, Vend Sensor, White	804,922,33x.x1	SAME
11	Lead, Vend Sensor, Black	804,924,37x.x1	SAME
12	Vend Sensor Bracket	639,070,93x.x3	SAME
CHUTE ASSEMBLY - MISCELLANEOUS			
A1	Standoff (4)	801,904,55x.x1	SAME
A2	Rivet, 1/8" Black (2)	901,100,54x.x1	SAME
A3	Screw, 8-32x¼, Swage Form	800,304,34x.x1	SAME
A4	Rivet, 1/8" Steel (9)	801,100,81x.x1	SAME
A5	Screw, 8-32x¼ w/ washer	800,304,23x.x1	SAME

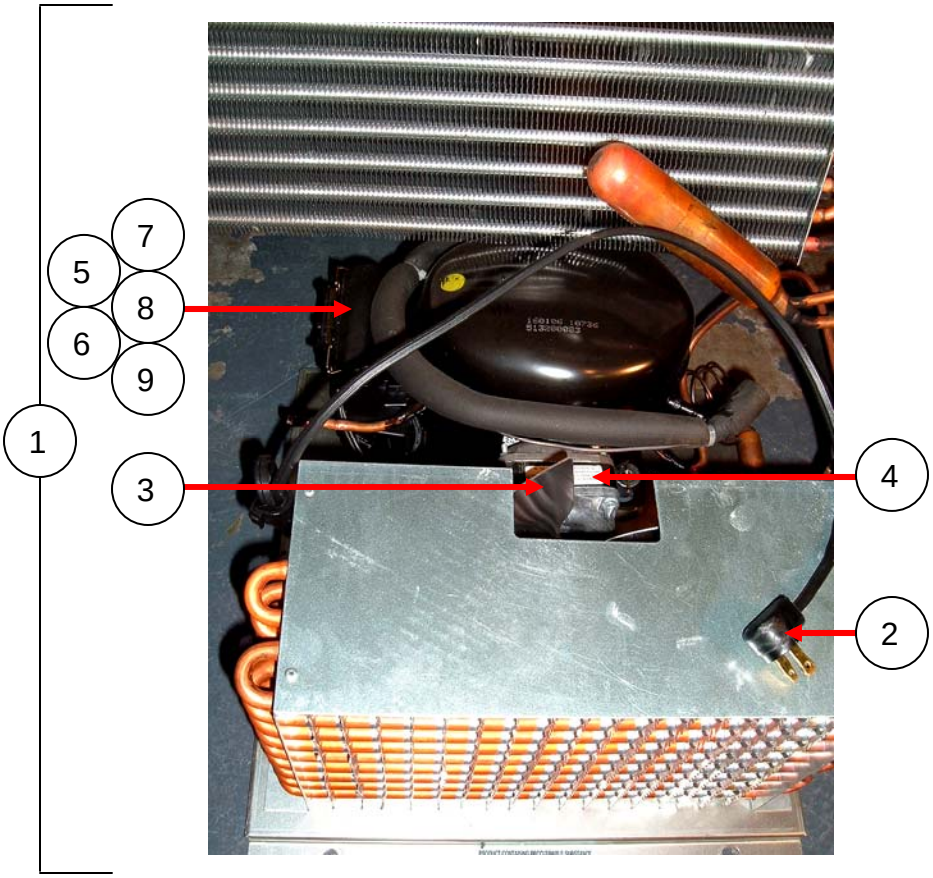
Part number and description subject to change with out notice.
NA = Not applicable TBD = To be determined RB = Replaced by

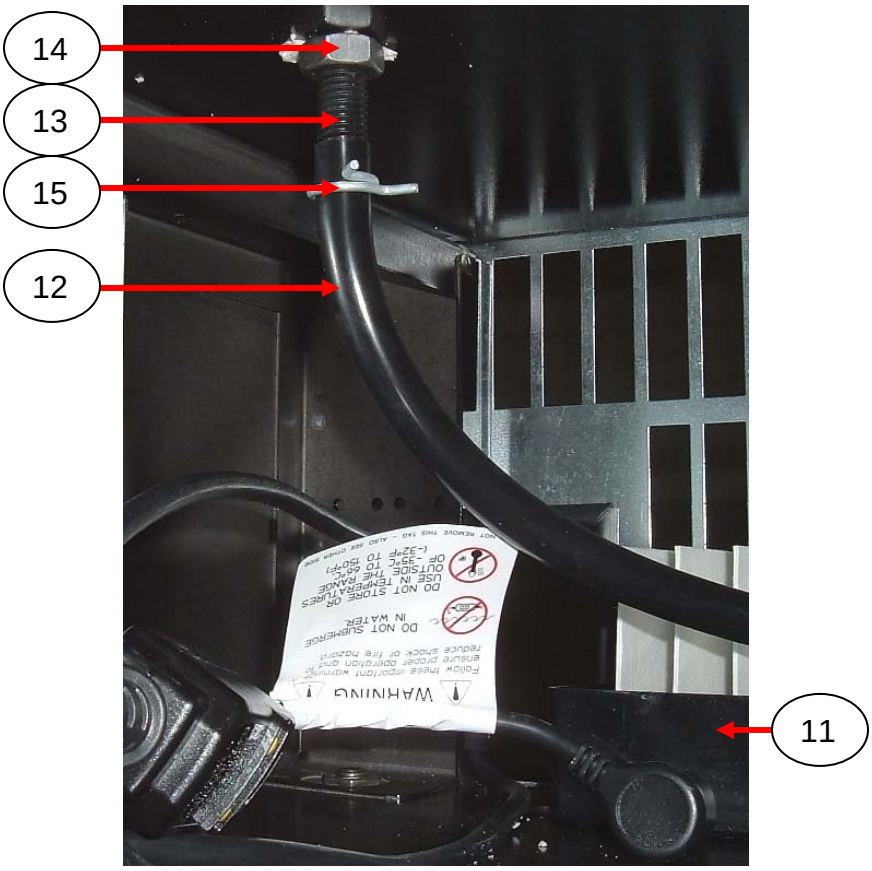
EVAPORATOR FAN ASSEMBLY



EVAPORATOR FAN ASSEMBLY			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
1	Evaporator Fan Shroud Assembly		
	All except Energy Star	640,040,10x.x3	639,040,20x.x3
	Energy Star	640,041,30x.x3	639,041,50x.x3
	Service Kits	646,070,00x.x3	646,040,40x.x3
2	Evaporator Fan Shroud		
	All except Energy Star	640,040,20x.x3	639,040,30x.x3
	Energy Star	640,040,13x.x3	639,040,06x.x3
3	Harness, Evaporator Fan		
	All except Energy Star	804,921,73x.x1	804,921,73x.x1
	Energy Star	804,926,33x.x1	SAME
4	Evaporator Fan Motor Assy.		
	All except Energy Star	640,040,30x.x3	SAME
	Energy Star	804,501,54x.x1	SAME
5	Motor,R, Fan 3000 RPM 0.5 AMP		
	All except Energy Star	804,501,25x.x1	SAME
6	Blade,R, Fan 6" CCW 4-Blade Plastic		
	All except Energy Star	801,818,88x.x1	SAME
7	Bracket, Evaporator Fan		
	All except Energy Star	640,040,06x.x3	SAME
8	Bracket, Evaporator Fan Panel Left Hand		
	All	640,040,08x.x3	SAME
9	Bracket, Evaporator Fan Panel Right Hand		
	All	640,040,07x.x3	SAME
10	Cover, Evaporator Top		
	All	640,040,09x.x3	SAME
11	Rear Air Stop Assembly – Not Shown	640,040,60x.x3	NA
12	Choke		
	Energy Star	804,926,92x.x1	SAME
13	Temperature Sensor		
	All	804,925,43x.x1	SAME
14	Bracket, Temp Sensor		
	All	639,040,04x.x3	SAME
EVAPORATOR FAN ASSEMBLY - MISCELLANEOUS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Screw, Phil Pan 8 - 18 x 1/2" (4)	800,304,18x.x1	SAME
A2	Hex Nut, 11/32" (6)	800,801,54x.x1	SAME
A3	Tie, 5.5 " Hand	901,901,06x.x1	SAME
A4	Bushing, ¾" split Heyco	901,902,17x.x1	SAME
A5	Rivet, 1/8" Steel	801,100,81x.x1	SAME
A6	Clamp, Cable, 3/8" Nylon	900,902,43x.x1	SAME
A7	Screw, 1/4-20x5/8 Hex Type F	800,304,36x.x1	SAME
A8	Screw, 10-32x1 1/4" Phil Pan Type F B	800,304,28x.x1	SAME
A9	Screw,R, 8-32x3/8, Phillip Pan Type 1	800,304,22x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

REFRIGERATION SYSTEM

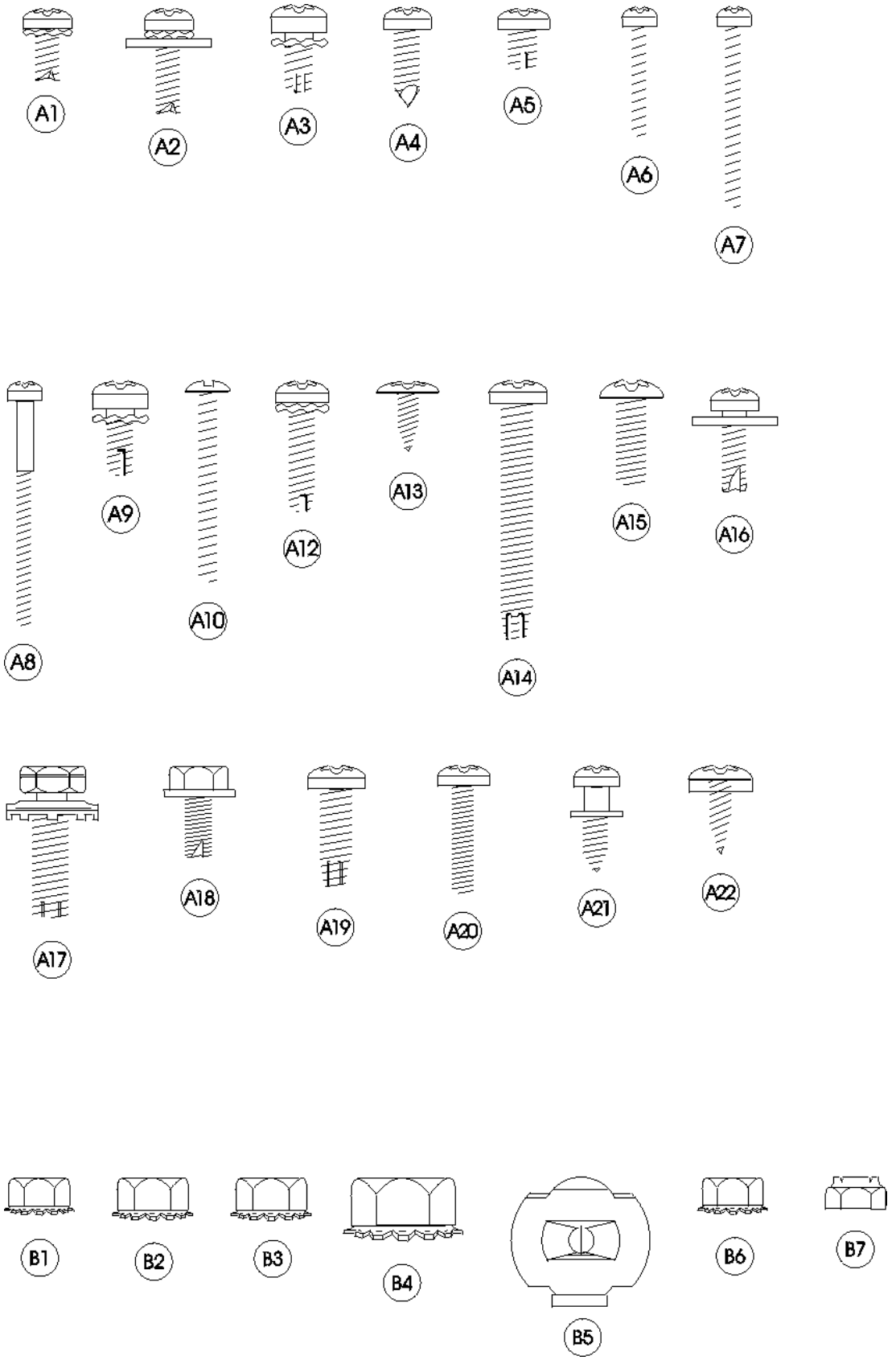




REFRIGERATION SYSTEM		
ITEM	**PART DESCRIPTION**	**DOMESTIC**
1	A,R,Refrigeration Unit, Service Kit	
	All	609,047,10x.x4
2	Cord, Power Refrigeration Compressor	802,401,85x.x1
3	Blade, Fan Condenser 230mm Aluminum	802,401,84x.x1
4	Motor, Condenser 9W	802,401,83x.x1
5	Bracket, Capacitor	802,401,82x.x1
6	Start Capacitor, 378-454mfd	802,401,81x.x1
7	Cover, Board, Terminal	802,401,80x.x1
8	Overload, MRT 22AFZ-5590	802,401,79x.x1
9	Assy, Relay 15A 115V M/Cap	802,401,78x.x1
10	Terminal, Board – Not Shown	802,401,77x.x1
11	Drain Pan w/Soakers	805,800,71x.x1
12	Hose, Drain	901,900,50x.x1
13	Tube, Drain Nylon	801,806,05x.x1
14	Nut, Drain Tube	800,304,27x.x1
15	Clamp, Drain Hose, HC-12	800,903,27x.x1
REFRIGERATION SYSTEM - MISCELLANEOUS		
A1	Wire Tie, Twist, .56-.60 ID	W223
A2	Screw, 1/4-20x5/8 Type F Sems (2)	800,304,36x.x1
A3	Screw, 8-18x1/2 Phillips Pan Sems	800,304,23x.x1
A4	Rivet, 1/8 Steel	801,100,81x.x1

MISCELLANEOUS LABELS			
ITEM	**PART DESCRIPTION**	**DN504P**	**DN720P**
A1	Kit, ID Number Labels	639,070,76x.x4	SAME
A2	Label, Precaution Access Door	803,833,04x.x1	SAME
A3	Label, Main Power	803,860,85x.x1	SAME
A4	Label,R, 1.6A Fuse	803,868,03x.x1	SAME
A5	Label, Refrigeration Outlet	803,868,04x.x1	SAME
A6	Label, Programming	803,870,25x.x1	SAME
A7	Label, Vend Motor Cover	803,871,19x.x1	SAME
A8	Label, Upper Refill	803,876,01x.x1	SAME
A9	Label, Lower Refill	803,876,03x.x1	SAME
A10	Label, Main Power Inlet	803,876,84x.x1	SAME
A11	Label, On/Off Rocker	803,879,72x.x1	SAME
A12	Label, Button/Stack	803,881,32x.x1	803,881,33x.x1
A13	Loading Instruction	803,881,63x.x1	SAME
A14	Wiring Diagram	803,881,67x.x1	803,881,68x.x1
A15	Label, GFCI	803,885,42x.x1	SAME
A16	Label, Money Removed Daily	903,805,70x.x1	SAME
Part number and description subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

SCREWS & NUTS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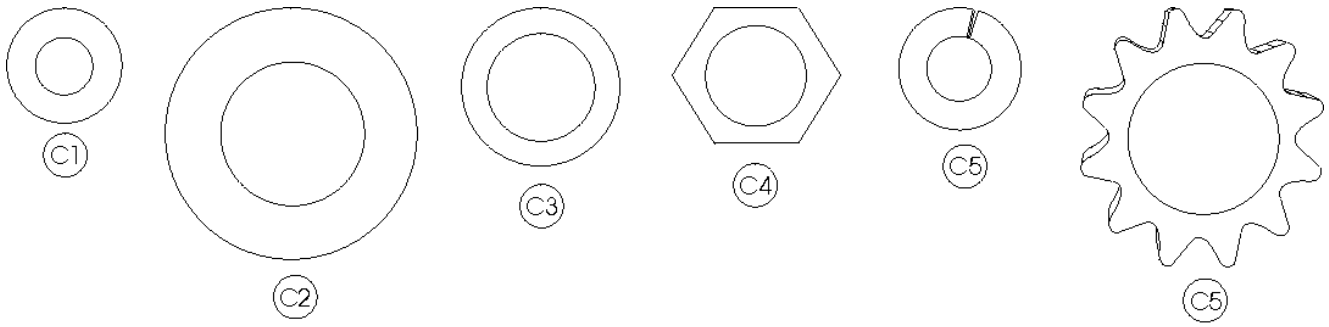
A20
A21
A22
B1
B2
B3
B4
B5
B6
B7

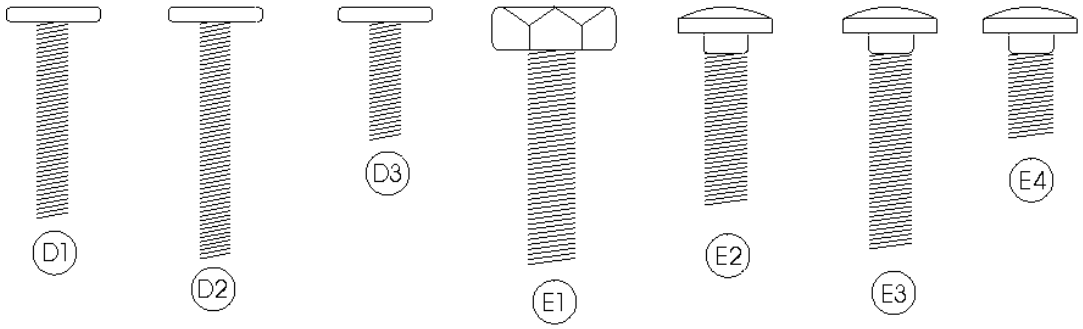
SCREWS & NUTS

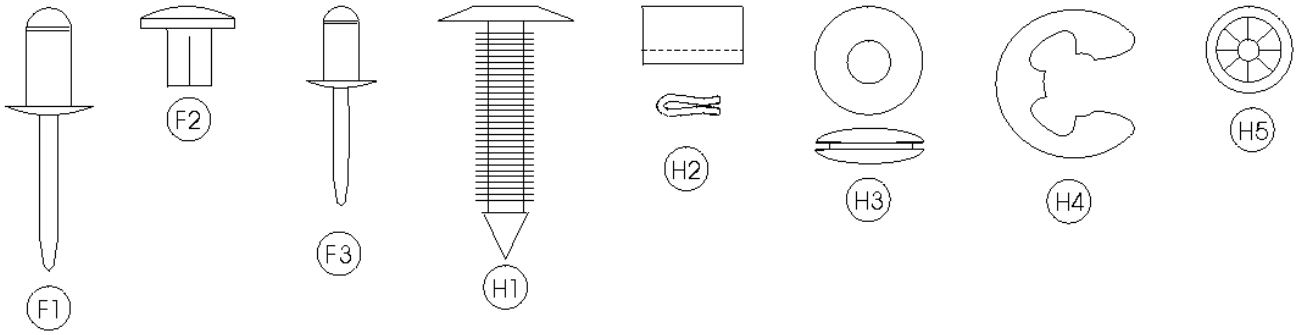
ITEM	PART NUMBER	PART NAME AND DESCRIPTION
A1	800,304,25x.x1	Screw, Phil Pan Swage Form #6 - 32 x 3/8"
A2	800,304,39x.x1	Screw, Phil Pan Swage Form w/washer #8 - 32 x 1/2"
A3	800,304,29x.x1	Screw, Phil Pan Swage Form #10 - 32 x 5/16"
A4	800,304,18x.x1	Screw, Phil Pan w/out washer, #8 - 18 x 1/2"
A5	800,304,34x.x1	Screw, Phil Pan Swage Form #8 - 32 x 1/4"
A6	800,304,50x.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" Double Switch (NOT USED)
A8	800,305,18x.x1	Screw, Vend Motor, #4-24 x 1 1/2" Triple Switch (NOT USED)
A9	800,304,22x.x1	Screw, Phil Pan Cutting #8 - 32 x 3/8"
A10	800,202,64x.x1	Screw, Machine, #6 - 32 x 1 1/4"
A11	800,304,34x.x1	Screw, Phil Pan Sems #8 - 32 x 1/4"
A12	800,304,32x.x1	Screw, Phil Thread Form #8 - 32 x 5/8"
A13	900,300,16x.x1	Screw, Phil Head Truss #6 x 3/8"
A14	800,304,28x.x1	Screw, Phil Pan Form #10 - 32 x 1 1/4"
A15	800,202,52x.x1	Screw, Machine Truss, #10 - 32 x 1/2"
A16	800,304,23x.x1	Screw, Phil Pan Sems with washer, #8 - 18 x 1/2"
A17	800,304,36x.x1	Screw, Self Tapping, 1/4 - 20 x 5/8"
A18	800,304,24x.x1	Screw, Hex Head Swage Form #8 - 36 x 3/8"
A19	800,304,41x.x1	Screw, Phil Pan Tapping #10 - 32 x 5/8"
A20	900,201,22x.x1	Screw, Machine Phil Pan #8 - 32 x 3/4" (obsolete)
A21	800,305,06x.x1	Screw, Phil Pan Shoulder #8 - 18 x 1/2"
A22	800,304,31x.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	800,304,26x.x1	Screw, Tap 1/4-20x1" Type F
A26	800,304,76x.x1	Screw, Phil Pan #8-18x3/4"
A27	800,304,07x.x1	Screw, Truss Type 23 #8-32x1/2
A28	800,304,33x.x1	Screw, Phil Flat 23B #10-32x1/2"
A29	800,202,44x.x1	Screw, Machine Brass #6-32x1/4"
A30	800,304,35x.x1	Screw, Plastic 8-hi/low x 1 1/4
A31	800,304,21x.x1	Screw, Phil Pan Swage Form #8-32x1/2"
A32	800,304,38x.x1	Screw, Hex Washer Type 1 #8-32x3/8"
A34	800,304,77x.x1	Screw, Phil Pan #6-20x3/8
A35	900,304,37x.x1	Screw, Self Tapping, #8-18x3/4
A36	800,202,48x.x1	Screw, Phil Pan Head #6-32x1/4"
B1	800,801,56x.x1	Hex Nut, #10 - 32
B2	800,801,57x.x1	Hex Nut, 1/4 - 20
B3	800,801,54x.x1	Hex Nut, #8 - 32
B4	800,801,83x.x1	Hex Nut, Top Door Hinge, 3/8 - 16
B5	900,800,85x.x1	Speed Nut
B6	800,801,82x.x1	Hex Nut, #6 - 32
B7	800,801,55x.x1	Elastic Stop Nut, #8 - 32
B8	800,801,84x.x1	Hex Nut 8-32
B9	800,903,50x.x1	Push Nut, Acorn Type
B10	800,801,84x.x1	Hex Nut 5/16-18
B11	800,801,84x.x1	Hex Nut, Flange with Serrations 8-32

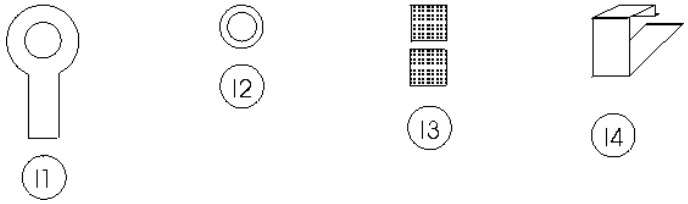
Part number and description subject to change with out notice.
NA = Not applicable TBD = To be determined RB = Replaced by

WASHERS, BOLTS, & MISC. HARDWARE









WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
C1	900,701,22x.x1	Washer, Delrin .047 Thick 3/8"IDx5/8"OD
C2	800,701,73x.x1	Washer, Door Hinge
C3	800,701,72x.x1	Washer, Flat #2949 (T-Handle)
C4	901,503,08x.x1	Washer, Hex #29-34 (T-Handle)
C5	800,701,43x.x1	Lockwasher, Split 3/8"
C6	900,700,89x.x1	Lockwasher, Shakeproof 5/8" (1132-00-00-0551) (obsolete)
C7	800,701,74x.x1	Steel Washer, 18 Gauge (1/2"x3/16")
C8	900,700,62x.x1	Washer, Shakeproof (4610-16-01-0551)
C10	800,701,44x.x1	Washer, Flat 18 Gauge (17/64""IDx5/8"OD)
C11	800,701,67x.x1	Washer, Flat 14 Gauge (5/16"-3/8"x7/8")
C12	801,902,48x.x1	Nylon Spacer
	800,701,76x.x1	Washer Flat (.343"ID x .688" OD .6T)
D1	800,400,69x.x1	T-Bolt, #8 - 32 x 1.94"
D2	800,400,68x.x1	T-Bolt, #8 - 32 x 1 3/8"
D3	800,400.61x.x1	T-Bolt, #8 - 32 x 3/4"
D4	800,400,62x.x1	T-Bolt, #8 - 32 x 1/2"
E1	800,400,59x.x1	Refrigeration Bolt, 3/8 - 16 x 1 ¼"
E2	800,202,42x.x1	Carriage Bolt, 1/4 - 20 x 1"
E3	800,202,43x.x1	Carriage Bolt, 1/4 - 20 x 1 1/4"
E4	800,202,45x.x1	Carriage Bolt, 1/4 - 20 x 1/2"
E5	800,202,46x.x1	Carriage Bolt, 1/4 - 20 x 3/8"
E6	800,202,47x.x1	Carriage Bolt, 1/4 - 20 x 3/4"
E7	900,303,12x.x1	Carriage Bolt, 1/4-20x5/8" (obsolete)
E8	800,202,54x.x1	Carriage Bolt, 5/16x18x1 1/4" Top Hinge (drop in)
E9	800,304,08x.x1	Carriage Bolt, 1/4-20x5/8"
E10	800,202,69x.x1	Carriage Bolt, ¼-20x1/2" (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	801,100,81x.x1	Pop Rivet, Steel (Zinc Plated) 1/8"
F6	901,100,53x.x1	Pop Rivet, Aluminum 1/8"
F7	801,100,79x.x1	Pop Rivet, Steel (Zinc Plated) 3/16"
H1	900,902,13x.x1	Christmas Tree Clip #354280307-00 (NOT USED)
H2	800,903,49x.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 - 1 1/4"
H8	901,806,77x.x1	Grommet, Admiral 5/16" #B53351
H9	902,100,29x.x1	Silencer
I1	804,601,45x.x1	#6 Terminal Ring Crimp 16-14 AWG
I2	801,902,48x.x1	Nylon Spacer used on Coke D/O Boards
I3	801,809,12x.x1	Velcro Blocks
I4	801,807,49x.x1	Vender Defender Clip
I5	901,901,89x.x1	Clamp, Cable 1" Heyco 3390
I6	800,902,51x.x1	Clamp, Nylon 5/16" White Heyco 3555 or Dennison 10159
I7	900,901,80x.x1	Clamp, Nylon 1/2" Heyco 3328

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WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
I8	901,901,06x.x1	Hand Tie, 5 1/2"
I9	901,902,01x.x1	Wire Tie, 7 1/2"
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, 5 1/2"
13	900,902,14x.x1	Canoe Clip #254-090-301-00-0108
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