

# *Technical* Manual

## P-Series



**Model DN552P-7**  
**Beginning Production Run 6925CB**

Manufactured by

**Dixie-Narco, Inc.**

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**APPLICATION**

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

**VENDER SAFETY PRECAUTIONS**

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



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

**PRODUCT IDENTIFICATION**

First production of P-Series August 2003

The production date of Dixie-Narco products is determined by the date code incorporated in the serial number.

The vender serial number takes the form yyyzz-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:

B = 2003  
C = 2004  
D = 2005

**PHYSICAL CHARACTERISTICS**

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

**RECEIVING INSPECTION**

Upon receipt, inspect the vender for any shipping damage. If there is any damage have the driver note the damage on the bill of lading and notify Dixie-Narco.

Although the terms of sale are FOB shipping point, which requires the consignee to originate shipping damage claims, Dixie-Narco will gladly help if you must file a claim.

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

### **UNPACKING THE VENDERS**

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



*DO NOT STORE THE VENDER OUTSIDE WITH THE STRETCH WRAP ON. THIS COULD CAUSE THE STRETCH WRAP TO BOND TO THE VENDER'S SURFACE, WHICH COULD DAMAGE THE FINISH.*

Remove the shipping boards from the bottom of the vender. The shipping boards are attached by the leveling legs. To avoid unnecessary damage to the leveling legs or base, remove the shipping boards by using a 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 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.**

### **GROUND THE VENDER**

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

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

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



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

### **PLACING THE VENDER ON LOCATION**

#### **!! CAUTION !!**



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

The vender must be located on a solid, flat, and level surface. Ensure the flooring can bear the weight of a fully loaded vender (approx. 1134 lbs). The vender must be positioned close enough to an electrical outlet that an extension cord is not required. If the machine will be subject to user misuse or vandalism, it is recommended that the vender be secured to the floor or wall as described in Dixie-Narco Technical Bulletin 344. Call the Dixie-Narco Technical Service Department or your Dixie-Narco Representative for assistance.

### **LEVEL THE VENDER**

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

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

#### **DANGER**



*THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. IF THE MACHINE WILL BE SUBJECT TO USER MISUSE OR VANDALISM IT IS RECOMMENDED THAT THE VENDER BE SECURED TO THE FLOOR OR WALL AS DESCRIBED IN DIXIE-NARCO TECHNICAL BULLETIN 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL THE 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 to the condenser and compressor. At the front of the vender, make sure that nothing obstructs the air intake at the bottom of the main door. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.



### WARNING

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

## COIN CHANGERS & OTHER ACCESSORIES

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

The vender will support the following MDB coin changers:

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

The vender will support the following MDB bill validators:

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

The vender will support the following MDB card readers:

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

## LOADING CHANGE TUBES

Open the main door and enter the "FILL Coin Mech (CF)" mode in the "CASH SET" (CS) sub-menu in Programming (see Section B – Programming).

Load the coin mechanism with coins by inserting coins in the coin mech's separator. The display will show the total 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 wide columns are set to vend the proper packages. When loading a wide column, the first row of packages should be loaded on the bottom bar of the oscillator. The second row of packages must be loaded on the top bar of the oscillator. Always load complete rows; do not load only to the back or only to the front of the column.

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

Correct loading will prevent service calls and ensure proper vending.

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

NOTE: To ensure proper airflow through the evaporator, DO NOT place 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).

### ***Setting The Vender Type***

To program with “SCOL” 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. “MODL” 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 COL1” 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 COL2”. Repeat the priming process until all columns have been primed or skipped.

#### **6 column machines**

DN552-5,  
DN552-6,  
DN552-7,

#### **7 column machines**

DN532-5,  
DN532-6,  
DN532-7,

#### **8 column machines**

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

#### **10 column machines**

DN760-9,  
DN760-10,  
DN760-11,  
DN760-12,  
DN760-13,  
DN760HV-12,

The following are other model numbers that may appear:

#### **6 column machines**

DN552-5,  
DN552-6,  
DN552-7,  
DN552-8,

#### **7 column machines**

DN532-5,  
DN532-6,  
DN532-7,  
DN532-8,

#### **8 column machines**

DN756-7,  
DN756-8,

#### **8 column machines (continued)**

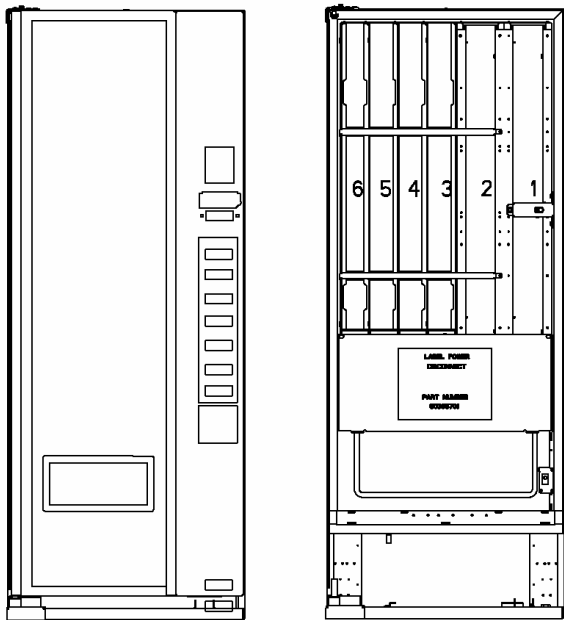
DN756-9  
DN756-10  
DN756-11  
DN756-12  
DN756-13

#### **10 column machines**

DN760-9  
DN760-10  
DN760-11  
DN760-12  
DN760-13



Factory Default Setting

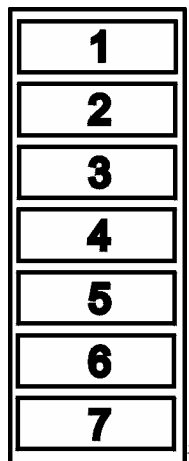


| Selection # | Column # |
|-------------|----------|
| 1           | 1        |
| 2           | 1        |
| 3           | 2        |
| 4           | 3        |
| 5           | 4        |
| 6           | 5        |
| 7           | 6        |

# SBC PROGRAMMING METHOD

AUGUST 2003

## P-SERIES



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 "SCOL" 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 8.

### 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. VS is a vend sensor problem, HS # is a vend mechanism home sensor problem, CJ # is a vend mechanism jammed, SS # is a select switch problem, RFRG is a refrigeration or temp sensor problem, and DS 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 **HD** 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" (RTN) on display, press and hold select button 1 to exit a sub-menu.                                                                                                                        |

### EXIT SERVICE MODE:

Closing the inner door, pressing select button 1 when RTN is displayed at the top menu level, pressing the service button a second time, or a five-minute inactivity time-out will exit the service mode.

## FRONT PANEL PROGRAMMING SERVICE MENU

### **HD – 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.

### **RD – 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 (“C RS”) “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.

### **S-P – 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 (SPS) “Single Price Set”, this will change the vend price of all selections, both primary and secondary, to the price programmed for selection 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.

### **C-S – CASH SETTINGS**

This function is used to configure credit handling rules for the vender. To move to “User Menu” (USER), press & hold select buttons 1 & 2 simultaneously. Press button 1 to enter Cash Settings Menu. The following are sub-menus of the Cash Settings: (CF) Fill Coin Mech, (CD) Dump Coin Mech, (CR) Coin Rules, (ESC) Escrow, (MV) Multi Vend, and (RTN) Return.

**C-F – COIN FILL 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 & hold select buttons 1 & 2 simultaneously to move to the next item on the menu.

**C-D - COIN DUMP**

This function is used to dump coins from the coin mechanism. Press select button 1 to enter 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 dispense the coins whose value is shown on the display. Press and hold select buttons 1 & 2 simultaneously until “Return”(RTN) shows on the display. Press select button 1 will return to “Dump Coin Mech”.

**Note: 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.**

**CR – 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 in the 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” between “On” and “Off”.

**ESC - 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. To set the escrow mode, release select button 1 when the desired setting is displayed.

**PR – ESCROW TO PRICE**

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.

**EP 2 – ESCROW NO CANCEL**

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.

**ES 4 – Escrow to 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).

**ES 1 – Escrow to 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 note acceptor. 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.

**MV – 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” between “On” and “Off”.

Press and hold select buttons 1 & 2 simultaneously to move to “Return”.

**RTN - RETURN**

Press and hold button 1 to return to “Cash”.

**USER**

This function is used to configure the vender to operate in a fashion best suited for the vender location. To move to “Diagnostics”(DIAG), 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: Space To Sales(STS), Column(CL), Time, Language(LANG), Electronic Counter(ECNT), Limited Access(LIM), Secondary Price(SEC), Environmental Controls(ECTL), Light(LT), Refrigeration(RFRG), Free Vend(FREE), Override(OVER), Sales Message(SSM), Recharge(R-CH), and Return(RTN). The “Column” sub-menu prompt will only be available in machines with DC motors.

**STS – SPACE TO SALES**

To view the space to sales condition, press select button 1 and display will show (SEL 1) “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 “SEL #” prompt (CL## #)(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 “CL ## #” on the display to toggle between “CL ## 0” and “CL ## 1”. With the setting you wish to use showing on the display, press select buttons 1 & 2 to scroll to next columns to add/delete columns. Press select button 1 at the “Return” prompt when selecting columns to enable, will return to “SEL #”. Press select button 1 at the “RTN” prompt when choosing what selection to set for Space to Sales, will return to “STS”.

Note: You must be in the “Selection” prompt to get to the “Return” mode that goes back to “Space To Sales”.

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

**CL- 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”(RTN) to select what column(s) will have its settings changed. Pressing button 1 will display “Column # ”(CL #) where # represents the column number.

Pressing select buttons 1 & 2 simultaneously will scroll through the columns.

Press select button 1 to scroll to “Package”

“**Pack” Package** - is the next prompt. Press select buttons 1 & 2 simultaneously after entry into this sub-menu will toggle between “Pack” and “RTN”. Pressing select button 1 when “Pack” is displayed 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, ..., “CUST” (CUSTOM), and “RTN” (RETURN). Press select buttons 1 & 2 simultaneously to scroll through the package settings.

Press select button 1 to select the package type that is displayed.

**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.

**HA - 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, HA ###. Press select buttons 1 & 2 simultaneously to scroll through hold angles. Press select button 1 to select the displayed hold angle. “Depth”(DEEP) will be displayed after the hold angle is set.

**“DEEP” – 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, DP # is displayed when select button 1 is pressed. Press select buttons 1 & 2 simultaneously to scroll through available product depths. Press select button 1 to select the displayed depth.

**“VA”- 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. VA# ### will be displayed where the first # is the product number in the column and the ### is the vend angle for that product. The user will be prompted to enter to same number of vend angles as was entered at the “DEEP” 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 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.

**“RTN” - Return**

Pressing select button 1 will return to “Column” (CL)

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 “MTH”.

**”MTH” - 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 “MTH”.

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"(HR/M)** - 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 the next item in the menu.

**"DST" - 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:

**"NA" - 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.

**"EU" - 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.

**"AUS" - 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"** – 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 (RTN)**

Press select button 1 to return to "Time".

**LANG - 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 "LANG".

|      |            |      |           |
|------|------------|------|-----------|
| ENGL | English    | SPN  | Spanish   |
| FRN  | French     | SLOV | Slovene   |
| GERM | German     | FNN  | Finnish   |
| ITA  | Italian    | NOR  | Norwegian |
| PORT | Portuguese |      |           |

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

**ECNT – “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 "ECNT" four button code:

At "ECNT" 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 "ECNT".

**Note: The four-button code must use 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.

**LIM – 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: (LAOS) "Selects", "Days", (STR1) "Start 1", (STP1) "Stop 1", (STR2) "Start 2", (STP2) "Stop 2", and (RTN) "Return".

**(LAOS) – LIMITED ACCESS ON SELECTION**

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 "RTN". 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 "RTN" 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:

|               |                 |                |                    |
|---------------|-----------------|----------------|--------------------|
| (SUN) Sunday  | (WED) Wednesday | (SAT) Saturday | (RTN) Return (RTN) |
| (MON) Monday  | (THUR) Thursday | (ALL) All Days |                    |
| (TUE) Tuesday | (FRI) Friday    | (NONE) 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", "NONE", and "RTN". Pressing select button 1 when "ALL" is displayed will cause the display to change to "ON" when all days have been enabled. Pressing select button 1 when "NONE" is displayed will cause the display to change to "OFF" when all days have been disabled. Press select button 1 at the "RTN" prompt returns to "Days".

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

**STR1 - 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 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.

**STP1 - 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.

**STR2 - 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.

**STP2 - 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.

**RTN - Return**

Press select button 1 to return to "LIM".

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

**SEC – SECONDARY PRICING**

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: (S-P2) “Price”, “Days”, (STRT) “Start”, “Stop”, and (RTN) “Return”.

**S-P2 - 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:

|               |                 |                |                    |
|---------------|-----------------|----------------|--------------------|
| (SUN) Sunday  | (WED) Wednesday | (SAT) Saturday | (RTN) Return (RTN) |
| (MON) Monday  | (THUR) Thursday | (ALL) All Days |                    |
| (TUE) Tuesday | (FRI) Friday    | (NONE) No Days |                    |

Press select button 1 and “MON” 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”, “NONE”, and “RTN”. Pressing select button 1 when “ALL” is displayed will cause the display to change to “on” when all days have been enabled. Pressing select button 1 when “NONE” is displayed will cause the display to change to “off” when all days have been disabled. Press select button 1 at the “RTN” prompt returns to “Days”.

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

**STRT - 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 - 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.

**RTN - Return**

Press button 1 to return to Secondary Pricing

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

**ECTL – ENVIRONMENTAL CONTROLS**

This allows the user to view the energy conservation menu “LT” - “Lighting”, “RFRG” – “Refrigeration”, and also the “Relay” test menu. **When this is programmed to “Off” you will not see (LT), (RFRG) or (RLY).** 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 “On” from the factory on P-Series machines**). To move to “LT” Light, press & hold select buttons 1 & 2 simultaneously with this feature on. To move to “FREE” - Free Vend, press & hold select buttons 1 & 2 simultaneously with this feature off.

**LT – Lighting available only when Environmental Controls are set to on.**

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”, (STRT) “Start”, “Stop”, (ENAB) “Enable”, and (RTN) “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 the week:

|               |                 |                |                    |
|---------------|-----------------|----------------|--------------------|
| (SUN) Sunday  | (WED) Wednesday | (SAT) Saturday | (RTN) Return (RTN) |
| (MON) Monday  | (THUR) Thursday | (ALL) All Days |                    |
| (TUE) Tuesday | (FRI) Friday    | (NONE) No Days |                    |

Press select button 1 and "MON#" 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", "NONE", and "RTN". Press select button 1 at the "RTN" prompt returns to "Days".

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

**STRT - 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.

**ENAB - 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".

**RTN - 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.

**RFRG - 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: (TEMP) "Temperature", (C-F) "Celsius or Fahrenheit", (DSP) "Display", "Days", (STRT) "Start", "Stop", (S-T) "Storage Temperature", (S-E) "Storage Enabled", and (RTN) "Return". To move to (FREE) Free Vend, press & hold select buttons 1 & 2 simultaneously.

Press select button 1 will enter "Temperature".

**TEMP - Temperature****(Default Temperature 35°F/15°C)**

This function is used to set the average product temperature for initial pull down and reload recovery.

Press select button 1 and "tt.tx" will show on the display where x is F (Fahrenheit) or C (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 display will return to "TEMP".

Press select buttons 1 & 2 to scroll to "C" or "F".

**(C-F) - Celsius or Fahrenheit**

This function is used to set the degree reading to (F) Fahrenheit or (C) Celsius.

Press select button 1 and the current setting will show on the display. Press and hold select button 1 to toggle between F and C. Release the select button with the display showing the setting you wish to use and display will return to "C" or "F".

Press select buttons 1 & 2 to scroll to "DSP".

**(DSP) - Display**

This function is used to enable the Temperature to be displayed following the "Ice Cold Drink" message. "SSM" **"Sales Message" must also be set to On for the temperature to be displayed.**

Press select button 1 and "DSP" will show on the display. 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:

|               |                 |                |                    |
|---------------|-----------------|----------------|--------------------|
| (SUN) Sunday  | (WED) Wednesday | (SAT) Saturday | (RTN) Return (RTN) |
| (MON) Monday  | (THUR) Thursday | (ALL) All Days |                    |
| (TUE) Tuesday | (FRI) Friday    | (NONE) 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"(ALL), "No Days"(NONE), and "Return"(RTN). 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 (STRT)**

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.

**(S-T) - Storage Temperature  
(Default Temperature 60°F/ 16°C)**

This function is used to set the temperature for product storage. Press select button 1 and "tt.tx" will show on the display where x is F (Fahrenheit) or C (Celsius) and tt.t is the degrees.

Press and hold select button 1 to increase or decrease the number by 1 F or 0.5 C. Release select button with the display showing the temperature you wish to use and display will return to "S-T".

Press select buttons 1 and 2 simultaneously to scroll to "S-E"

**S-E - Storage Enabled**

This function is used to enable the storage setting to go in affect.

Press select button 1 and the current setting will be displayed (On or Off).

Press and hold select button to toggle between "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 "RTN"

**RTN - Return**

Press select button 1 at "Return" to return to "RFRG"

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

**FREE – FREE VEND**

This function is used to set the Free Vend option. Press select button 1 and (ENAB) "ENABLE" will show on the display. To move to "OVER", press & hold select buttons 1 & 2 simultaneously.

Note: For free vend to become active a free vend switch must be connected to controller on free vend switch connector.

**ENAB - 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 "DSP"

**DSP - 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 "DSP"

Press select buttons 1 and 2 simultaneously to scroll to "RSET"

**RSET - 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 "RSET"

Press select buttons 1 & 2 to scroll to "RTN"

**RTN – 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.

**OVER - OVERRIDE**

This function is used to allow a key switch 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”, 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.

**SSM – 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 “SSM”.

Press select buttons 1 & 2 simultaneously to scroll to “R-CH”.

**R-CH – 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 “R-C4”.

Press select buttons 1 & 2 simultaneously to scroll “RTN”

**RTN - RETURN**

**Press select button 1 to return to “User”.**

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

**DIAG - DIAGNOSTICS**

This function allows you to systematically diagnose problems related to the vender. To move to “Auto” 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 (SL) “Selection”, (HS) “Home Sensor”, (VSNS) “Vend Sensors”, (MT) “Motors”, (CM) “Coin mech”, (NA) “Note Acceptor”, (DSP) “Display”, (RLY) “Relay”, “Jog”, (PRM) “Prime”, and (RTN) “Return”.

**SL - 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.

**HS – HOME SENSOR This prompt only appears on P-Series machines.**

Use this to test the home sensor on the motor for any column. Press select button 1 to display “COL 1”. Press & hold select buttons 1 & 2 simultaneously to scroll through the columns and (RTN). Press button 1 when a column is displayed will cause the displayed column to test that the motor’s home sensor can be detected. Press select button 1 at “RTN” to return to “HS”.

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

**VSNS – VEND SENSOR This prompt only appears on P-Series machines.**

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 “CHUT” message will be displayed.

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

**MT- MOTOR TEST**

Use this test to run any motor in the stack. Press select button 1 and “MT 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 (RTN) 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. Note: When testing a P-Series machine, product **MUST** be seen by the vend sensor for the test to be successful.

**CM – COIN MECH**

Use this test to check coin mech, coin chute, 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 exit the test and return any coins inserted and return to “CM”.

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

**NA – NOTE ACCEPTOR**

Use this test to check the note acceptor. Inserting a bill enters the note acceptor diagnostic function. Bill will be held in escrow. 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 “NA”.

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

**DSP - 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 “DSP”.

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

**RLY – Relays can only be tested if the environmental controls package is installed in the vender.****CMP# - Compressor**

This function allows you to test the relay electronic control of 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 “CMP #”, 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 off; 1 = activated or on. Press select button 1 to toggle the relay on and off.

Press select buttons 1 & 2 simultaneously to scroll to “LT#”.

**LT# - Light #**

This function allows you to test the relay electronic control of the lights.

Press select button 1 and the display will show “LT #”, 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 scroll to “RTN”.

**RTN - Return**

Press select button 1 to return to “RLY”.

**JOG- JOG MOTOR This prompt only appears on P-Series machines.**

Press select button 1 the display will show CL 1. Press select buttons 1 & 2 simultaneously until the desired column is displayed. Selecting the desired column will then prompt for a direction either CW “clockwise” or CCW “counter clockwise”. Pressing select 1 & 2 simultaneously will scroll between “CW”, “CCW” and “RTN”. Pressing select button 1 when “CW” or “CCW” is displayed will jog the motor in that direction. Press select buttons 1 & 2 to scroll to “RTN”. Press select button 1 at the Return prompt to return to “JOG”.

Press select buttons 1 & 2 to scroll to the next item.

**PRM – PRIME COLUMN This prompt only appears on P-Series machines.**

Pressing select button will display “CL 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. Press select buttons 1 & 2 simultaneously to scroll to “RTN”.

Press select button 1 at “RTN” will return to “PRM”

Pressing select buttons 1 & 2 simultaneously to scroll to the next item.

**RTN - RETURN**

Press select button 1 to return to “Diagnostics”.

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

**AUTO – 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. For further details contact Dixie-Narco Factory Service.

Press and hold select buttons 1 & 2 simultaneously to scroll to “RTN”.

**RTN - RETURN**

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

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                |
|----------------------|---------------------------------|----------------------------------|--------------------|----------------------|-----------------------------|
| (HD) Historical Data |                                 |                                  | User con't.        | (LT) Lights          | Days                        |
| (RD) Interval Data   |                                 |                                  |                    |                      | (STRT) Start                |
| (S-P) Set Price      |                                 |                                  |                    |                      | Stop                        |
| (C-S) Cash Settings  | (C-F) Coin Fill                 |                                  |                    |                      | (ENAB) Enable               |
|                      | (C-D) Dump Coin                 |                                  |                    |                      | (RTN) Return                |
|                      | (CR) Coin Rules                 |                                  |                    | (RFRG) Refrigeration | (TEMP) Temperature          |
|                      | (ESC) Escrow                    | (PR) Escrow to Price             |                    |                      | (C-F) Celsius or Fahrenheit |
|                      |                                 | (EP2) Escrow No Cancel           |                    |                      | (DSP) Display               |
|                      |                                 | (ES4) Escrow to Select 4         |                    |                      | Days                        |
|                      |                                 | (ES1) Escrow to Select 1         |                    |                      | (STRT) Start                |
|                      | (MV) Multi Vend                 |                                  |                    |                      | Stop                        |
|                      | (RTN) Return                    |                                  |                    |                      | (S-T) Storage Temperature   |
| (USER) User Menu     | (STS) Space To Sales            |                                  |                    |                      | (S-E) Storage Enable        |
|                      | (CL) Column                     | (PACK) Package                   |                    |                      | (RTN) Return                |
|                      |                                 | (HA) Hold Angle                  |                    | (FREE) Free Vend     | (ENAB) Enable               |
|                      |                                 | (DEEP) Depth                     |                    |                      | (DSP) Display               |
|                      |                                 | (VA) Vend Angle                  |                    |                      | (RSET) Reset                |
|                      |                                 | (RTN) Return                     |                    |                      | (RTN) Return                |
|                      | Time                            | Year                             |                    | (OVER) Override      |                             |
|                      |                                 | (MTH) Month                      |                    | (SSM) Sales Message  |                             |
|                      |                                 | Day                              |                    | (R-CH) Recharge      |                             |
|                      |                                 | (HOUR) Hour/Minute               |                    | (RTN) Return         |                             |
|                      |                                 | (DST) Daylight Savings Time      | (DIAG) Diagnostics | (SL) Selection       |                             |
|                      |                                 | (RTN) Return                     |                    |                      |                             |
|                      | (LANG) Language                 |                                  |                    | (HS) Home Sensor     |                             |
|                      | (ECNT) Electronic Counter       |                                  |                    |                      |                             |
|                      | (LIM) Limited Access            | (LAOS) Limited Access on Selects |                    | (VSNS) Vend Sensor   |                             |
|                      |                                 | Days                             |                    | (MT) Motors          |                             |
|                      |                                 | (STR1) Start Period 1            |                    | (CM) Coin Mech       |                             |
|                      |                                 | (STP1) Stop Period 1             |                    | (NA) Note Acceptor   |                             |
|                      |                                 | (STR2) Start Period 2            |                    | (DSP) Display        |                             |
|                      |                                 | (STP2) Stop Period 2             |                    | (RLY) Relay          | (CMP#) Compressor           |
|                      |                                 | (RTN) Return                     |                    |                      | Fan#                        |
|                      | (SEC) Secondary Price           | (S-P2) Set Price 2               |                    |                      | (LT #) Light#               |
|                      |                                 | Days                             |                    |                      | (RTN) Return                |
|                      |                                 | (STRT) Start Secondary Pricing   |                    | (JOG) Jog Motor      | (CL #) Column #             |
|                      |                                 | (STOP) Stop Secondary Pricing    |                    |                      | (RTN) Return                |
|                      |                                 | (RTN) Return                     |                    | (PRIME) Prime Column | (CL #) Column #             |
|                      | (ECTL) – Environmental Controls |                                  |                    |                      | (RTN) Return                |
|                      |                                 |                                  | (AUTO) Auto test   |                      |                             |
|                      |                                 |                                  | (RTN) 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.

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

### POWER

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

#### CAUTION:

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

### CLEANING



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

### SIGN FACE

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

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

### CABINET

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

### DRAIN PAN

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



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<br>(or as needed) | <b>Main Door</b>            |                   |
|                                  | 1. Lock Bolt & Nut Retainer | Mechanics Friend  |
|                                  | 2. Hinge Pivot Points       | Mechanics Friend  |
| Every Year<br>(or as needed)     | <b>Inner Door</b>           |                   |
|                                  | 1. Hinge Pivot Points       | Mechanics Friend  |
|                                  | <b>Inner Door</b>           |                   |
|                                  | 1. Door Gasket              | Petroleum Jelly   |

## EPROM REPLACEMENT

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

### SBC (Single Board Controller) Software Update Procedure

This document describes how to update software on the Single Board Controller (SBC). **Note:** All existing software revisions, except software version 804,920,870.01, 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 DAMAGE 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 804,920,870.01 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.

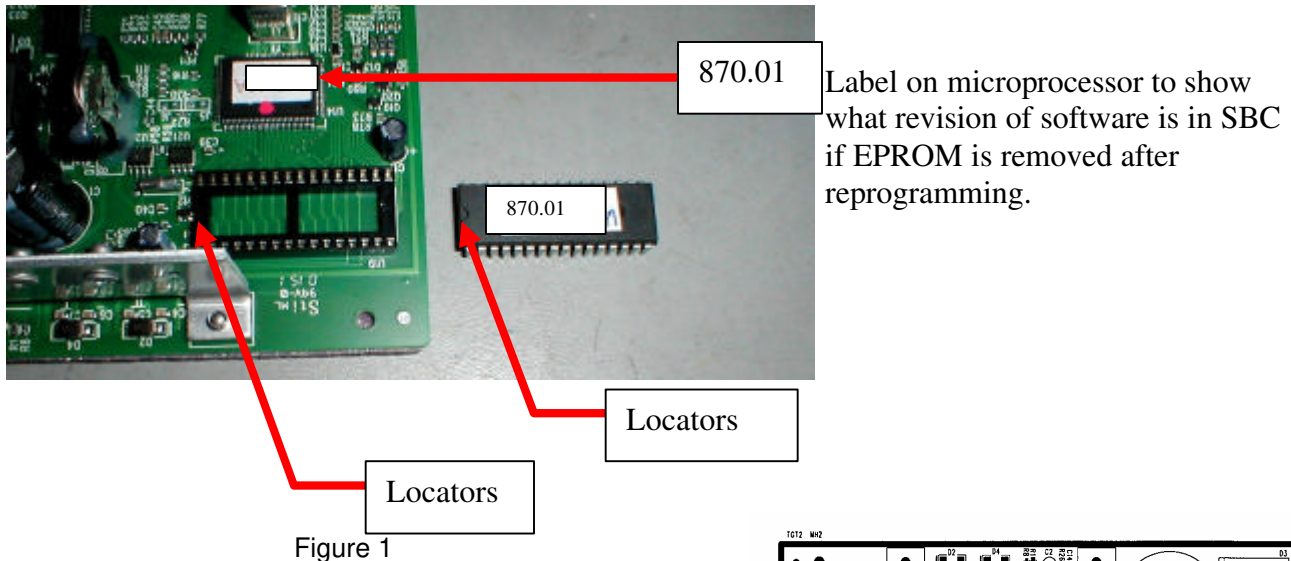
**Note:** To remove the EPROM after programming is complete turn power off, **ground yourself on the vender cabinet before removing the EPROM**, remove the EPROM, turn power on, test vender for proper operation.

III. Manual Reprogramming (all 804,920,870.01 or if an EPROM does not automatically reprogram the SBC)

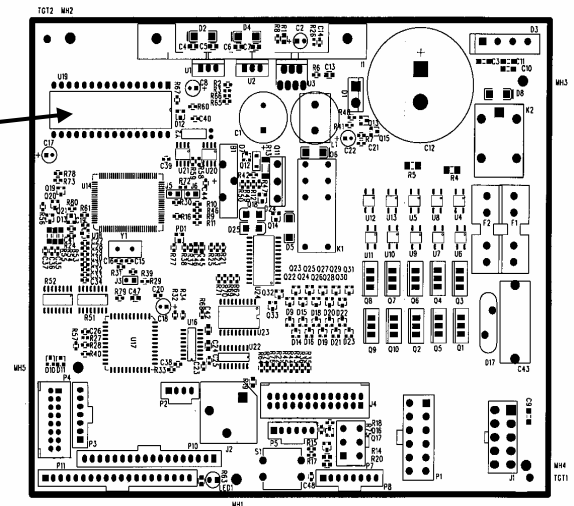
- At power up, the current software version will be displayed. To manually program the control board with the new software, press the blue service switch on the SBC to enter the service menu. Advance to the "Auto Test" menu by holding buttons 1 & 2 simultaneously. Enter Auto Test by pressing button 1, 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)

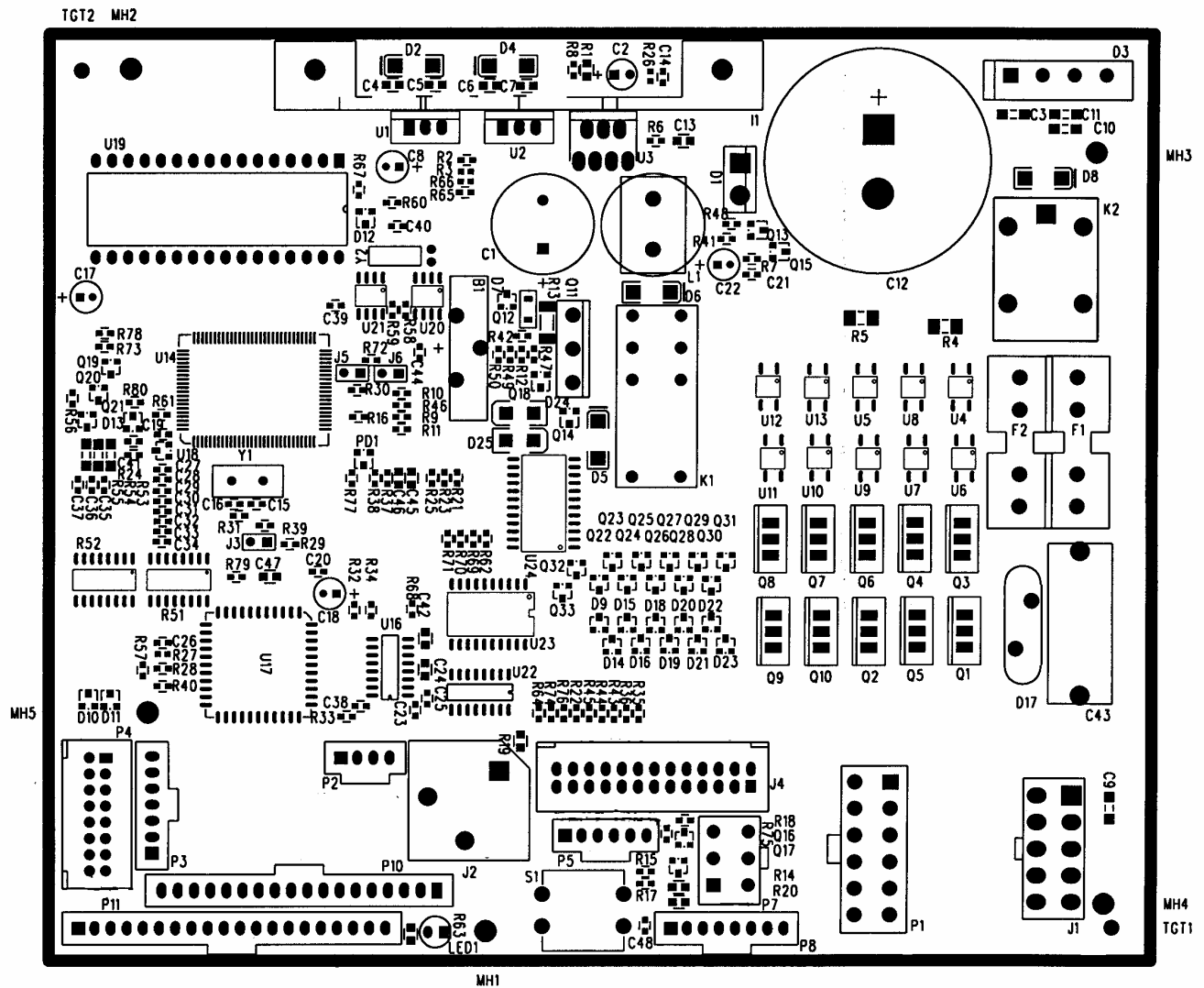


**ELECTRICAL**

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| 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) |
| Fuse (F2)   | 6 Amp Slo Blo Motor Power Fuse                                             |
| Relay       | Potter & Brumfield T91P5D52-24 240 VAC / 20 A-NO / 10A-NC                  |
| Choke       | Foster A-16015 5MH 6A                                                      |

**REFRIGERATION**

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| 110 VAC          |                                                                                     |
| Compressor       | Embraco, 1/3 HP, 115 VAC, 60 Hz<br>1 Phase<br>Unit uses 9.0 oz. of 134A Refrigerant |
| Start Relay      | 115 VAC, 1.351.605                                                                  |
| Start Capacitor  | 115 VAC<br>233-280 MFO / 165V                                                       |
| Thermal Overload | 115 VAC<br>MRT 22AF2-5598                                                           |
| Condenser Fan    | 16W Motor<br>115 VAC<br>5KSM81FFL 3022T<br>Blade – 8-3/4" dia.                      |
| Evaporator Fan   | 6.5W Motor<br>115 VAC<br>OSM 2045X1<br>Blade – 6" dia.                              |

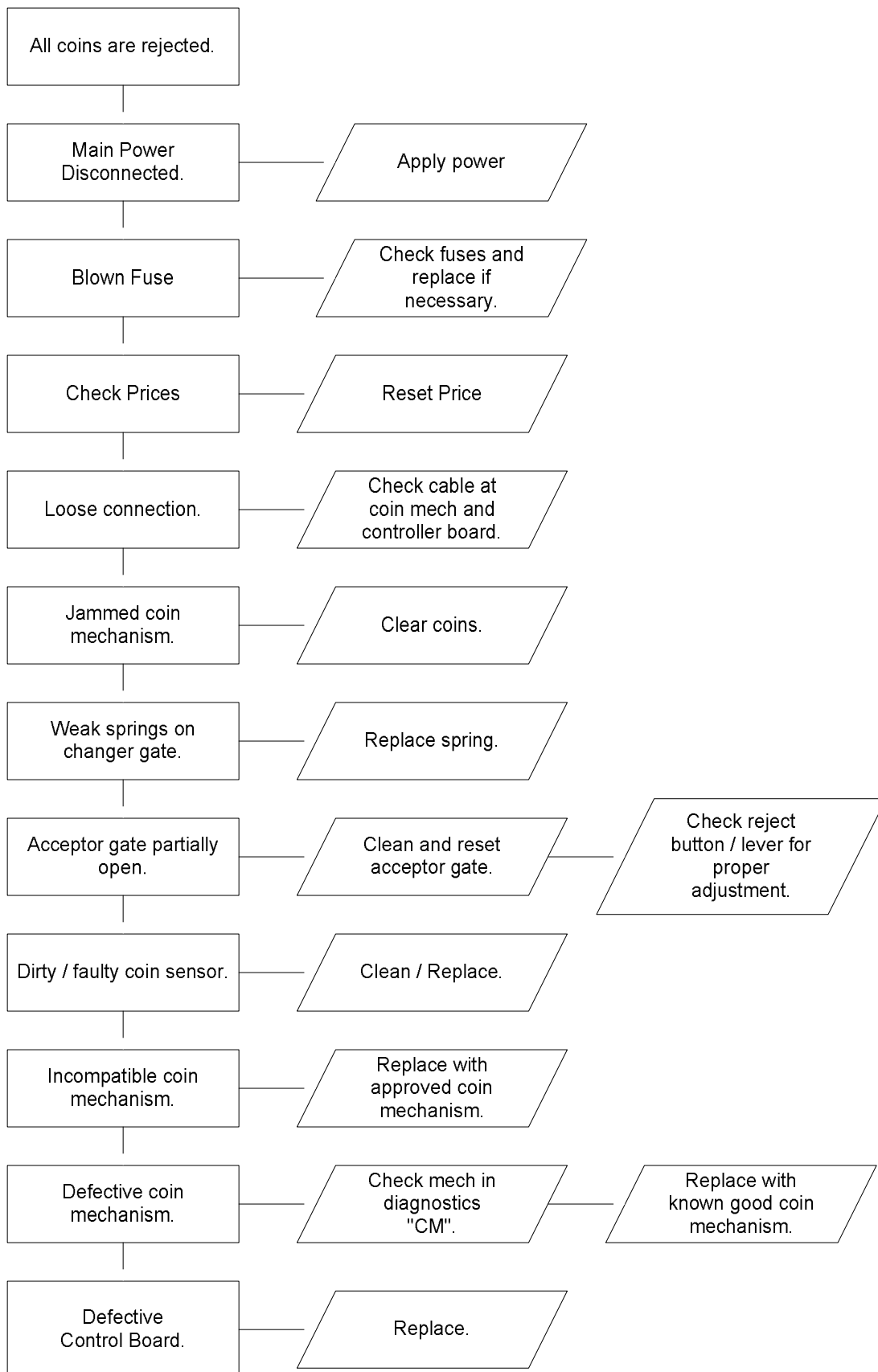


- P1 Motor
- P2 Secondary DEX
- P3 Display
- P4 Select Switches
- P5 Temp Sensor
- P7 MDB
- P8 Energy Management
- P10 Sold Out LED's
- P11 Ready to Vend
- J1 AC Power
- J2 DEX
- J4 Cam / Sold Out
- B1 Battery

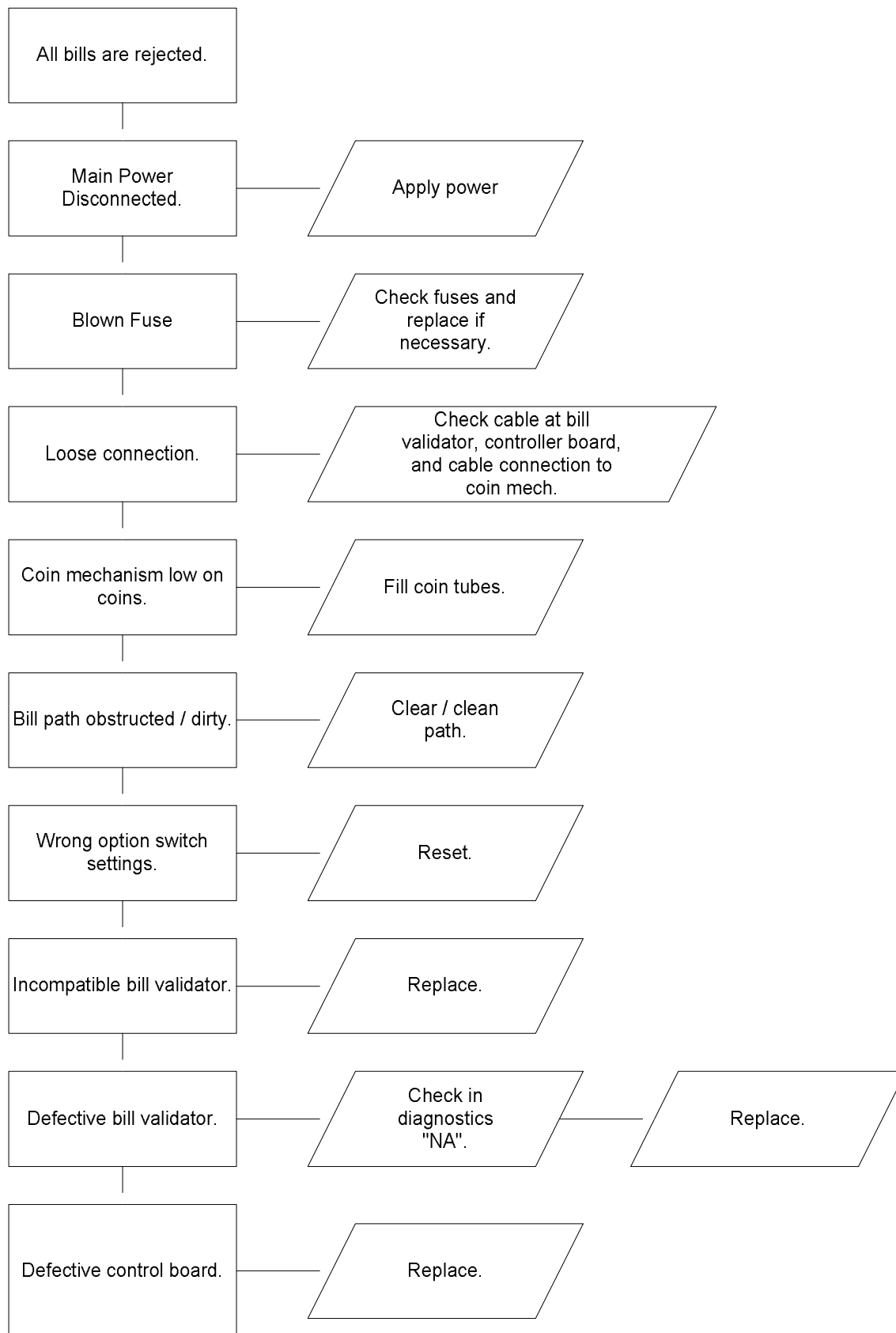
## TROUBLESHOOTING FLOWCHARTS

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

### ALL COINS ARE REJECTED

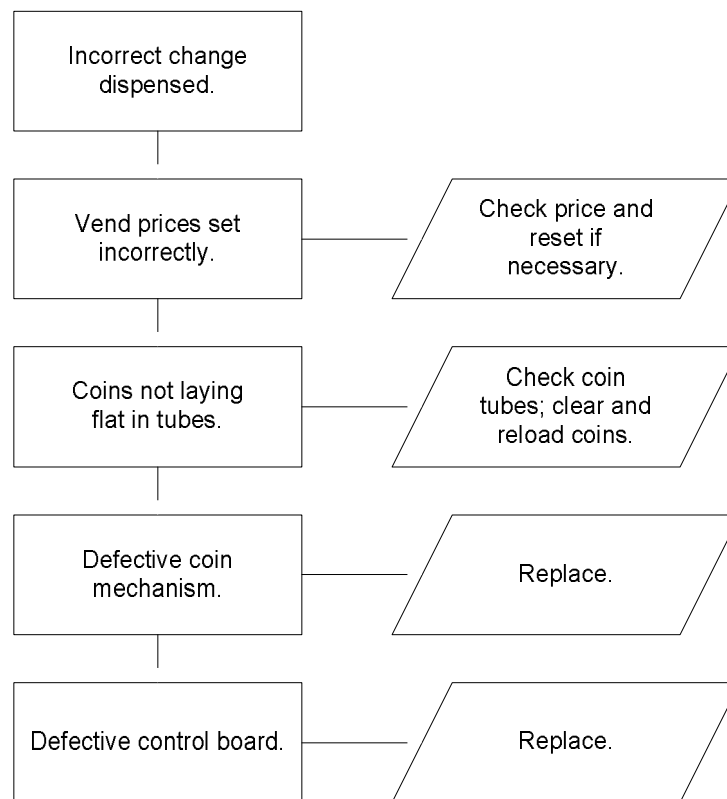


## ALL BILLS ARE REJECTED

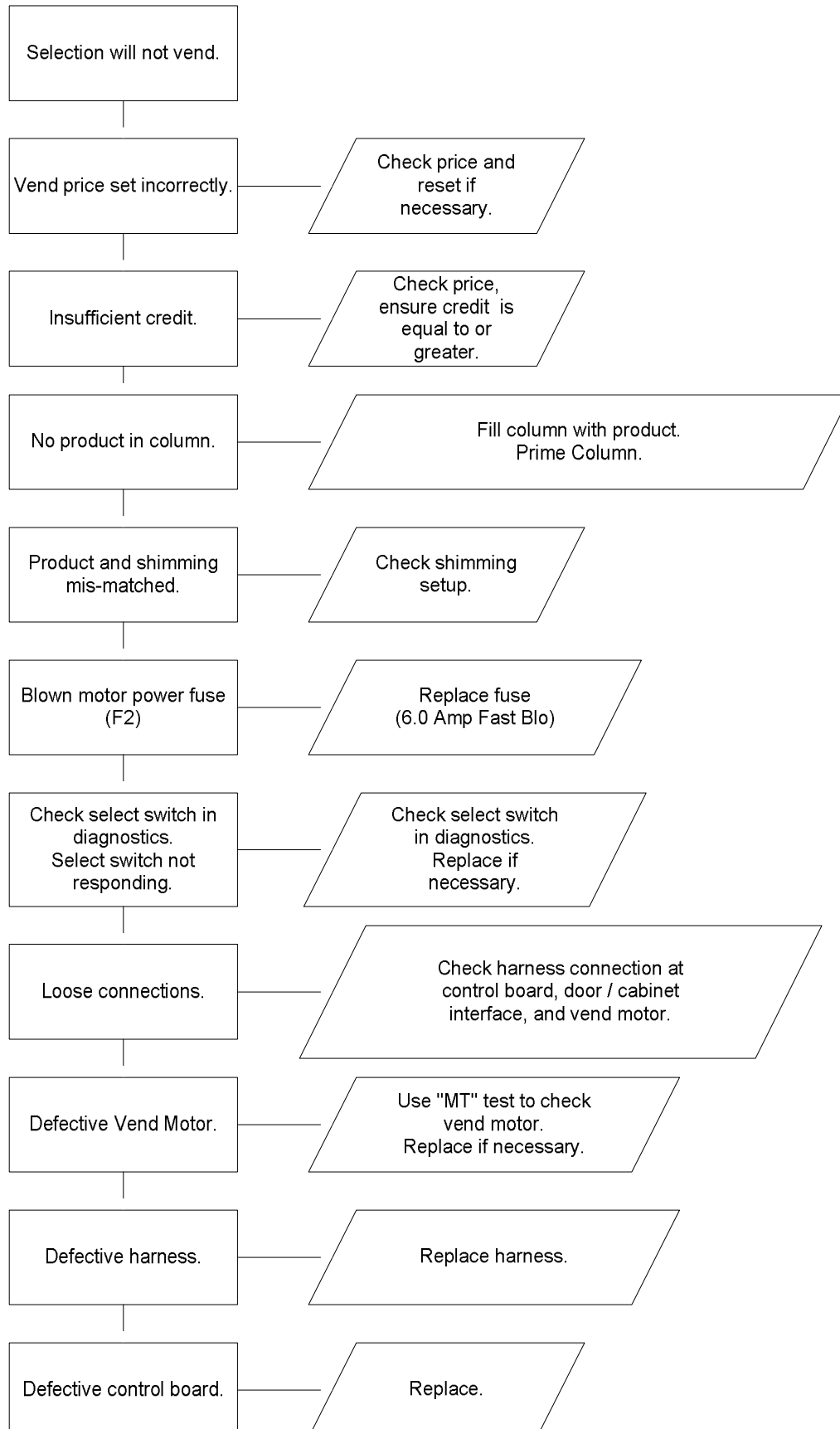




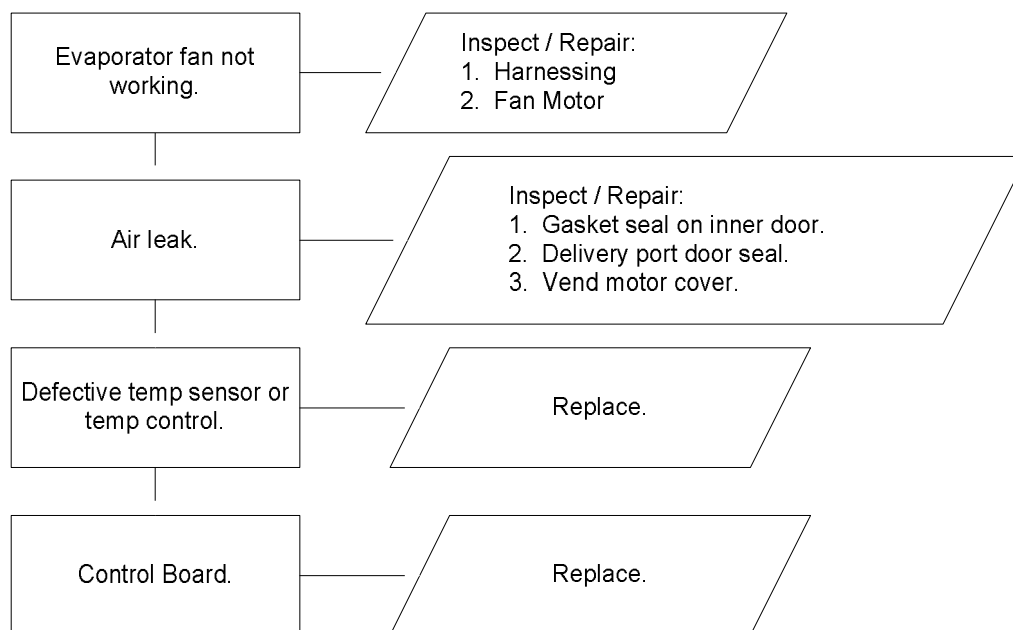
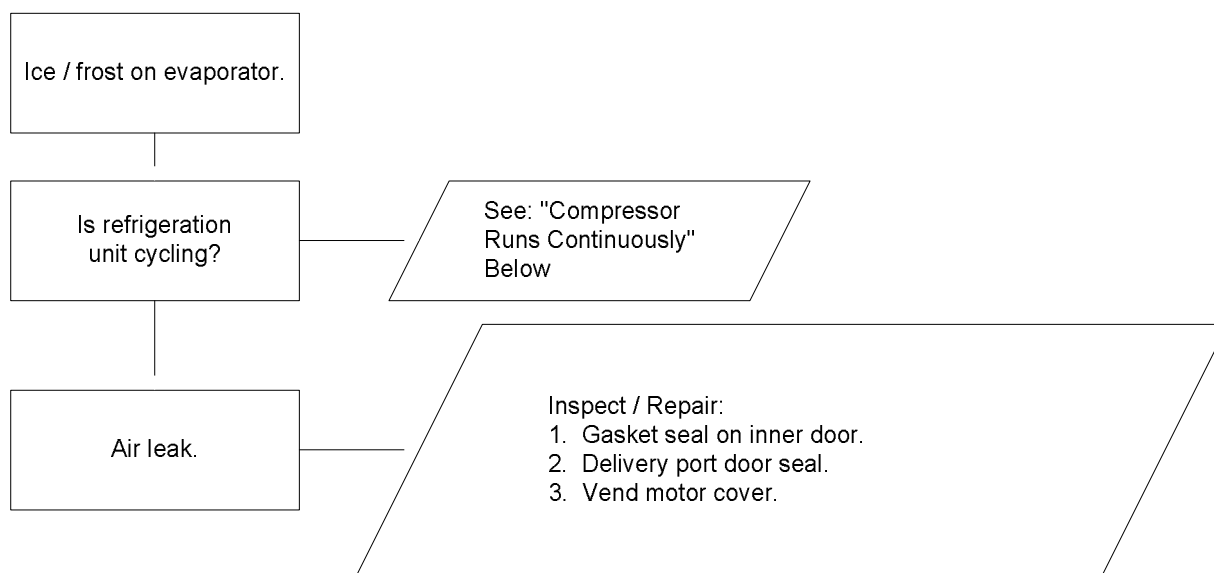
## INCORRECT CHANGE DISPENSED



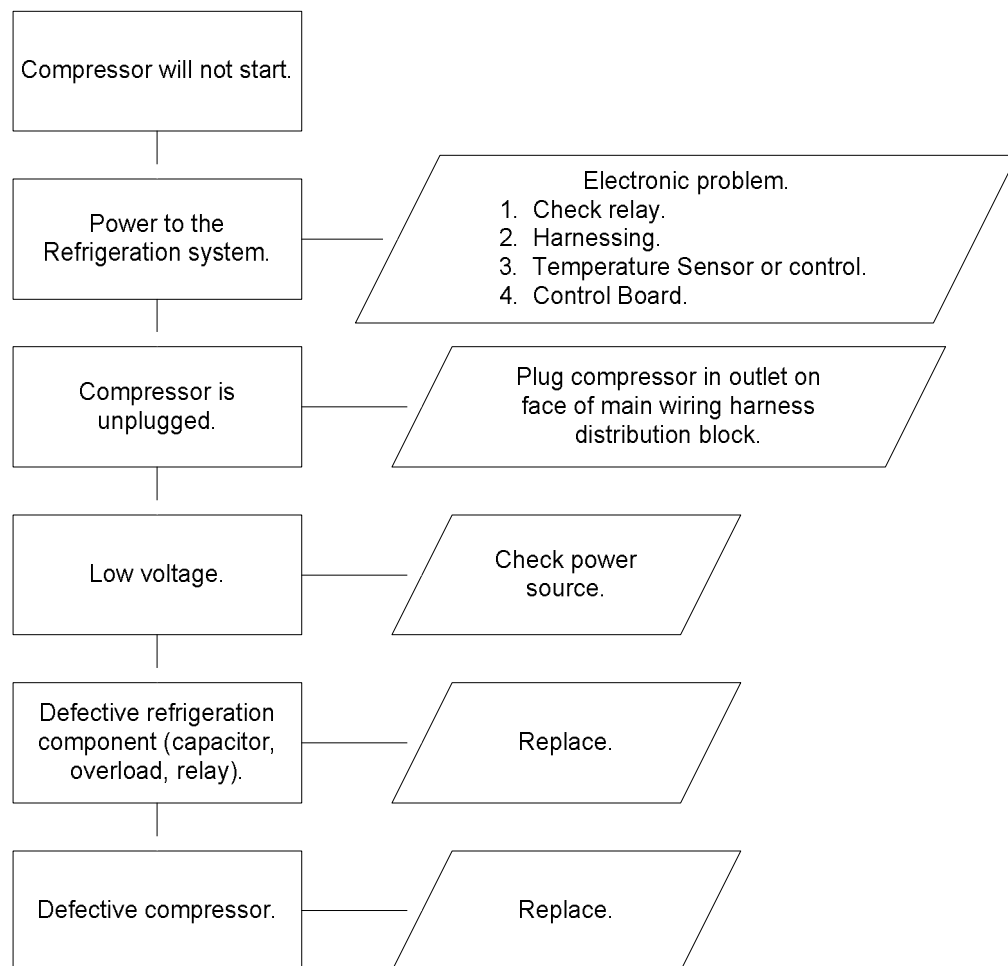
## SELECTION WILL NOT VEND



## ICE / FROST ON EVAPORATOR

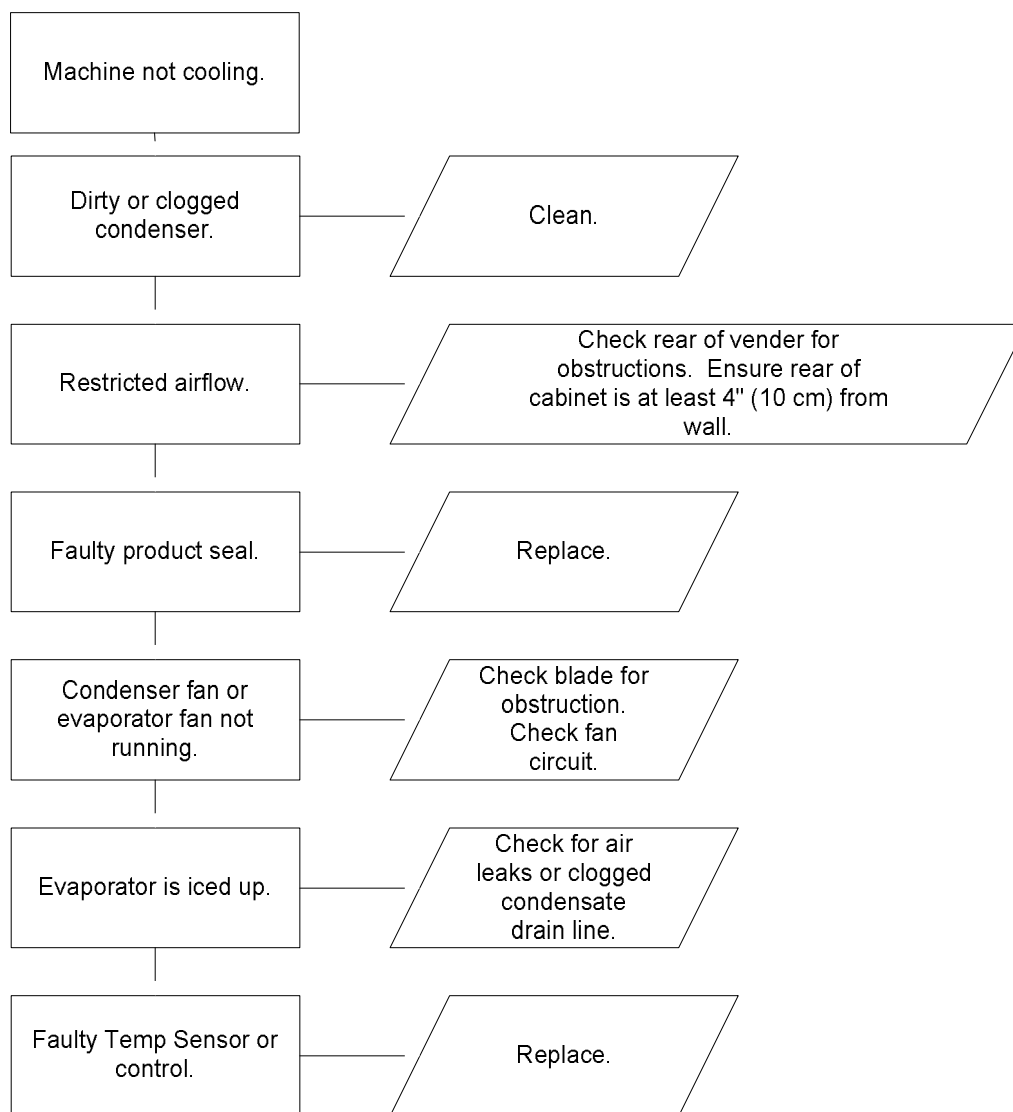


## COMPRESSOR WILL NOT START



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

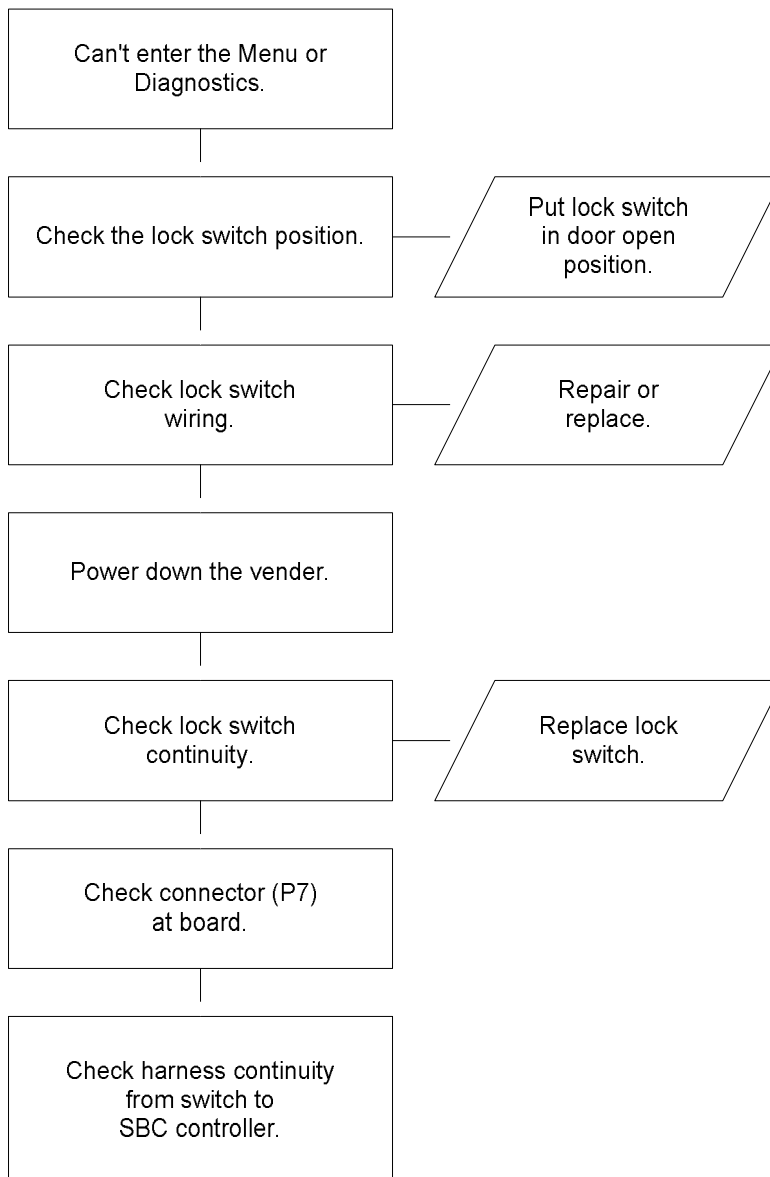
## MACHINE NOT COOLING



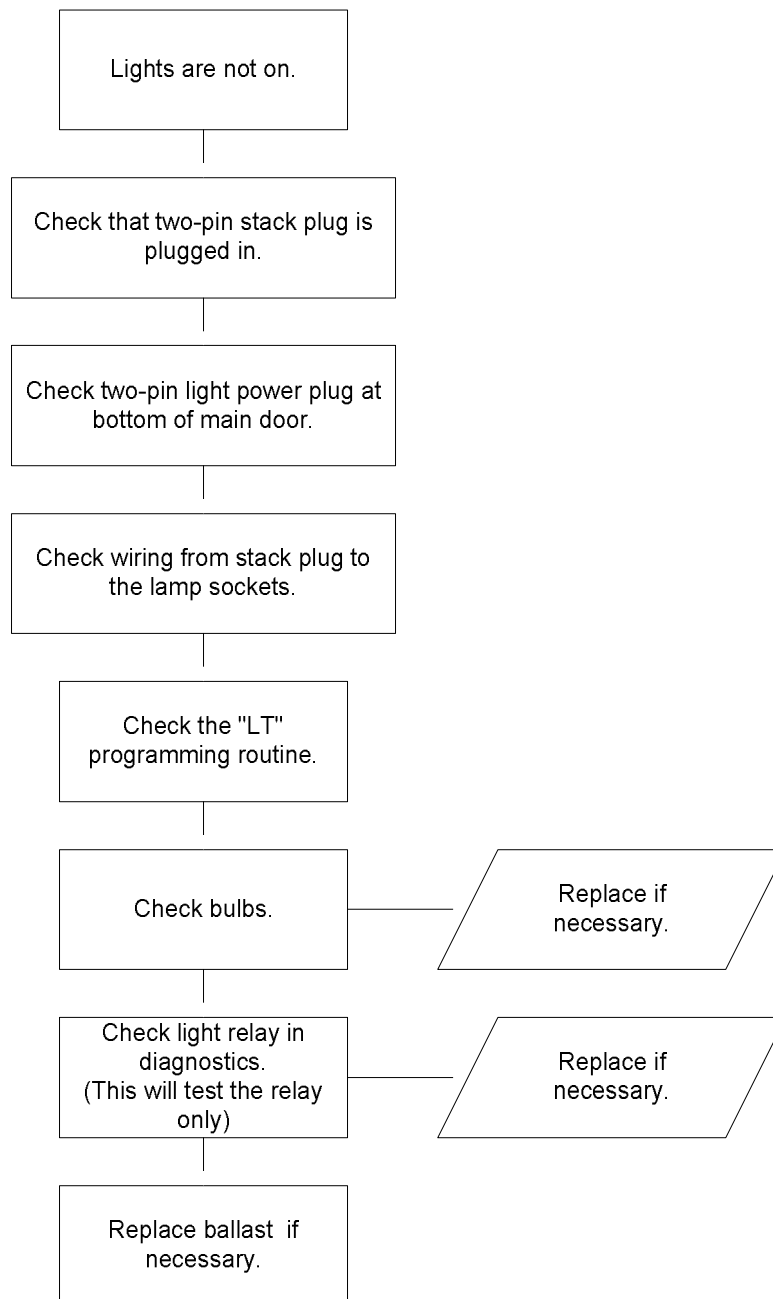
## CAN'T ENTER THE MENU OR DIAGNOSTICS



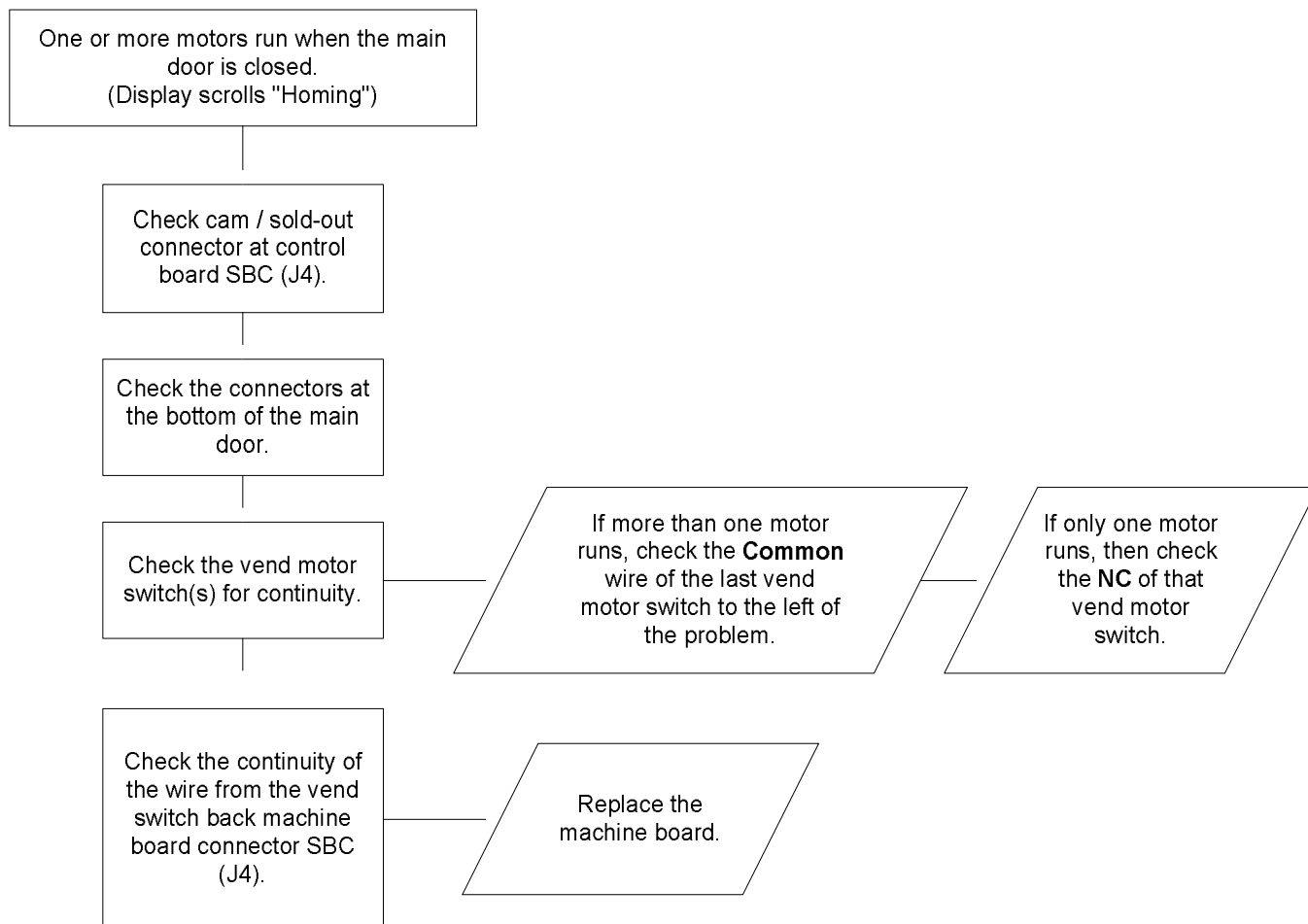
**Note:** Prior to checking wires or connections, ensure power has been removed from vender.



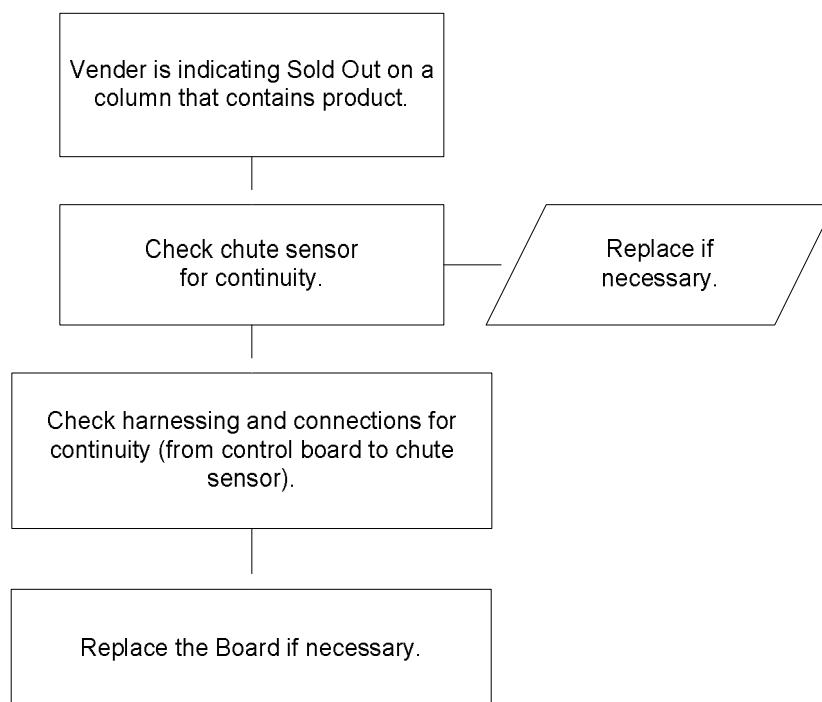
## LIGHTS ARE NOT ON

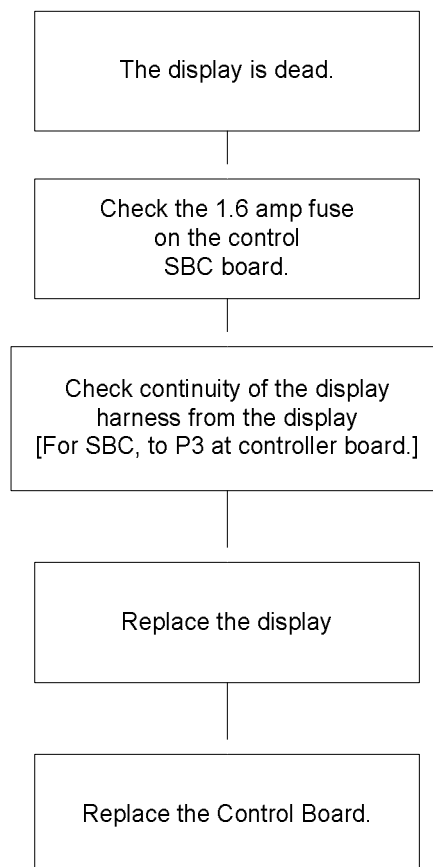


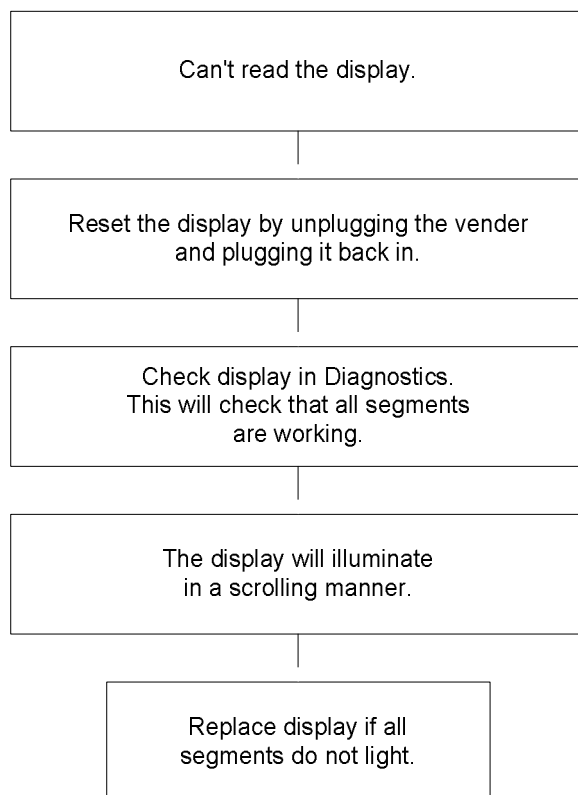
**ONE OR MORE MOTORS RUN WHEN MAIN DOOR IS CLOSED**  
**(Display Scrolls "Homing")**

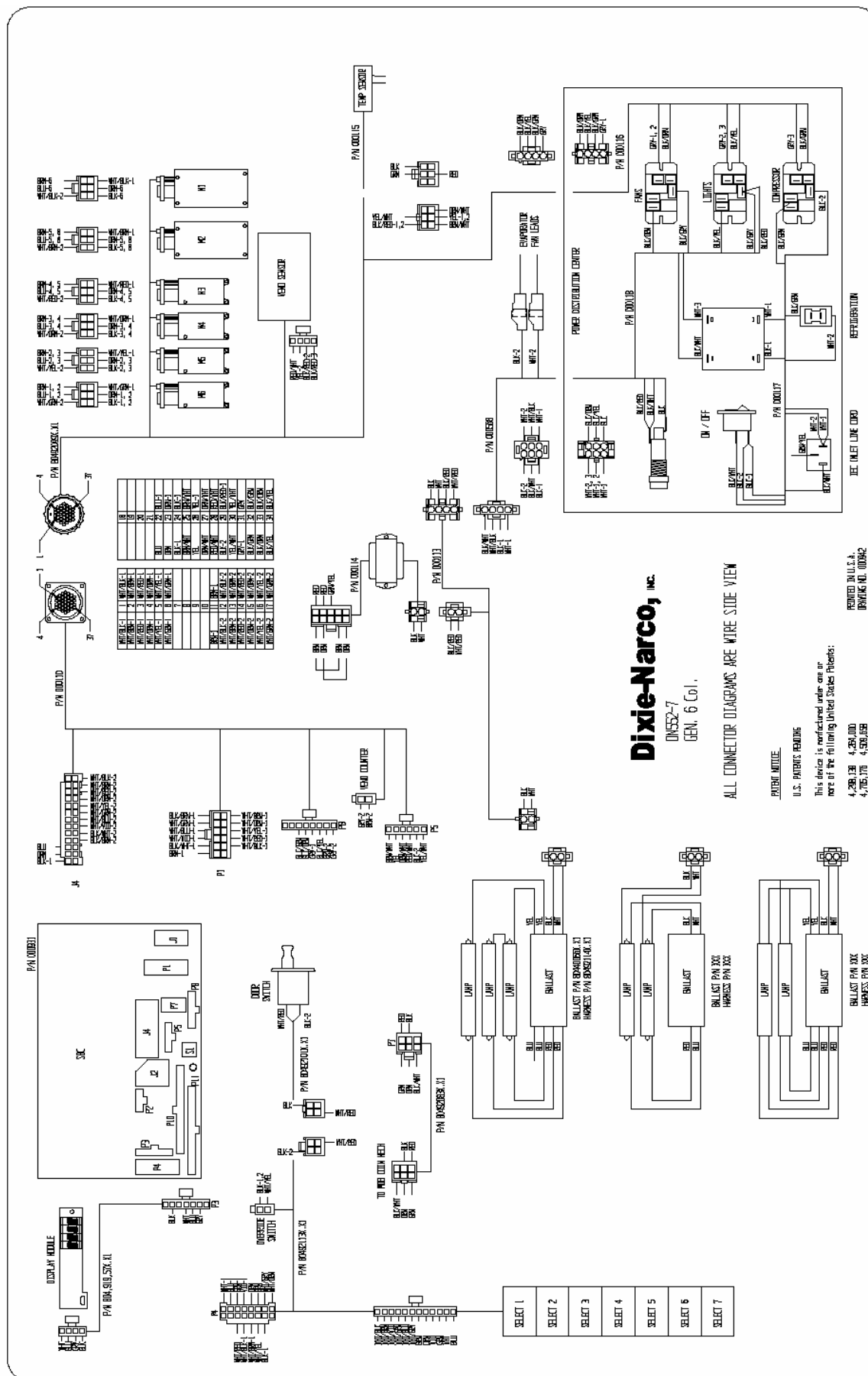




**SOLD OUT**

**THE DISPLAY IS DEAD**

**CAN'T READ THE DISPLAY**

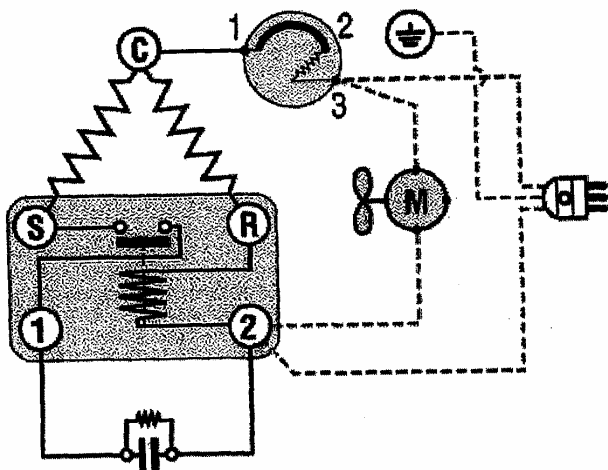


**Dixie-Narco, Inc.**  
 DMS-7  
 GEN. 6 Co.

ALL CONNECTOR DIAGRAMS ARE WIRE SIDE VIEW

PRINTED IN U.S.A.  
 DRAWING NO. 00042

## Refrigeration Circuit Diagrams

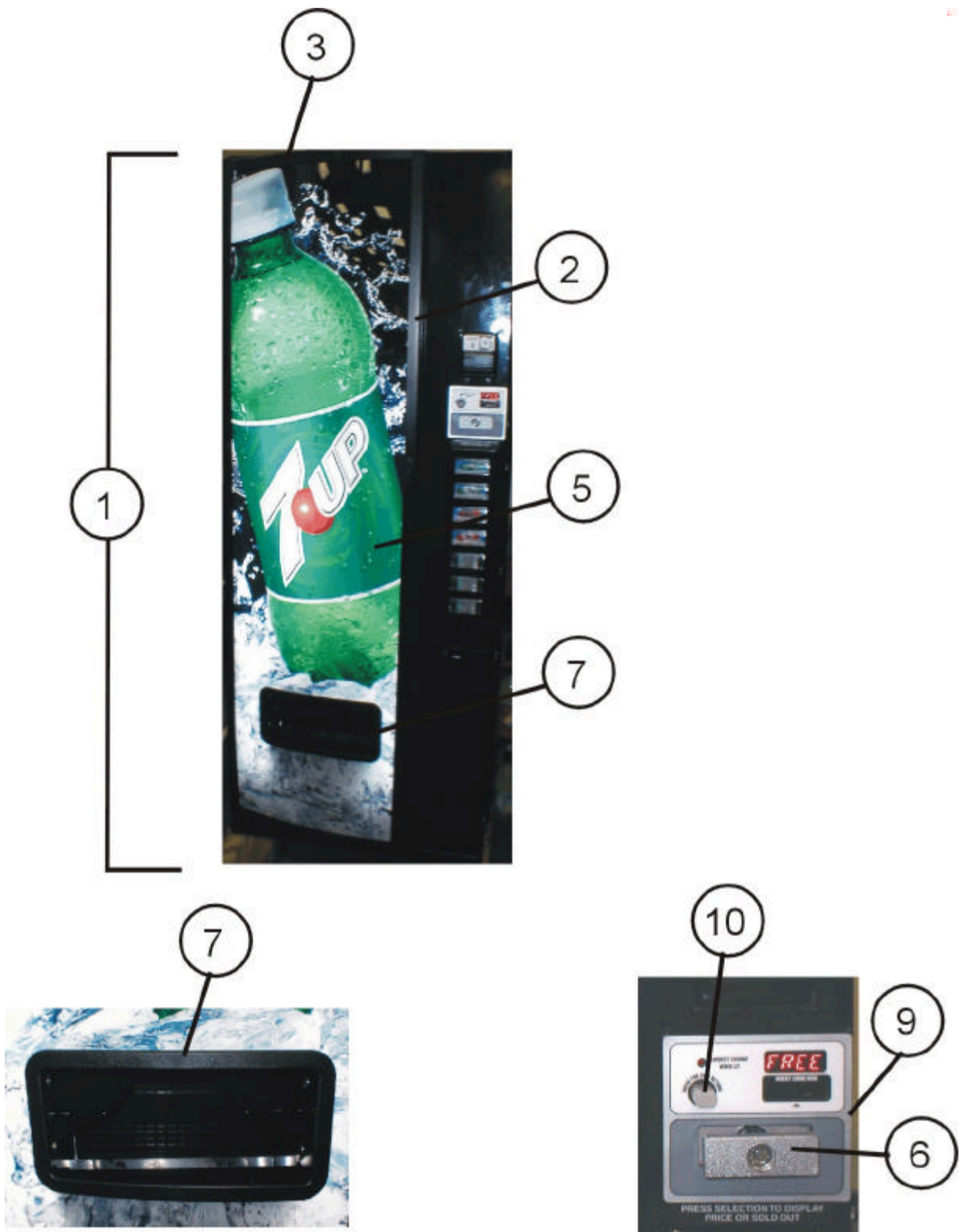


| Symbol | Description                                    |
|--------|------------------------------------------------|
|        | Current Start Relay with Capacitor Connections |
|        | Start Capacitor                                |
|        | Overload Protector                             |
|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

## MAIN DOOR EXTERIOR



MAIN DOOR EXTERIOR



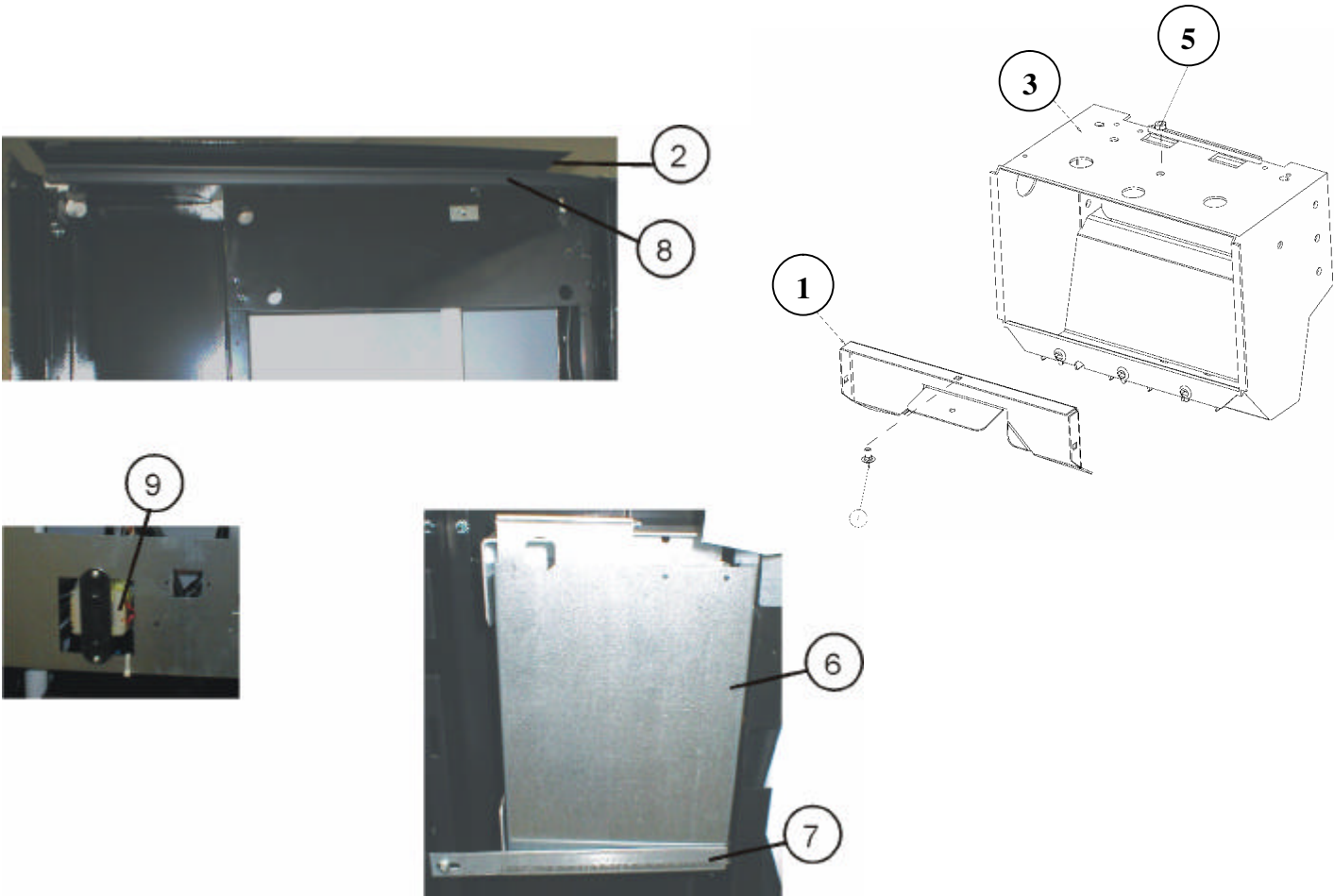
**MAIN DOOR EXTERIOR**

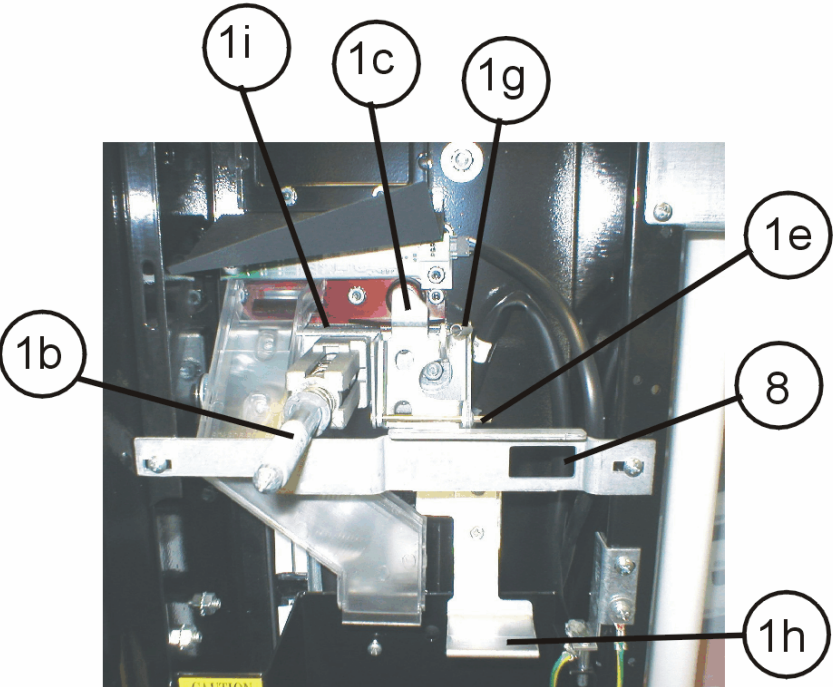
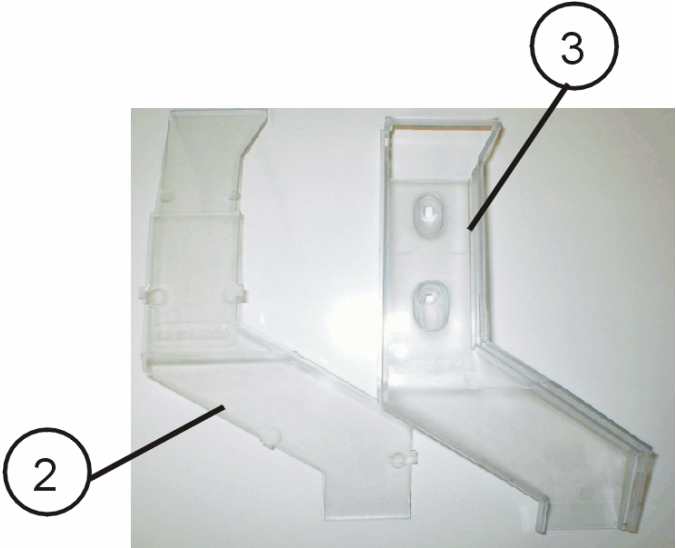
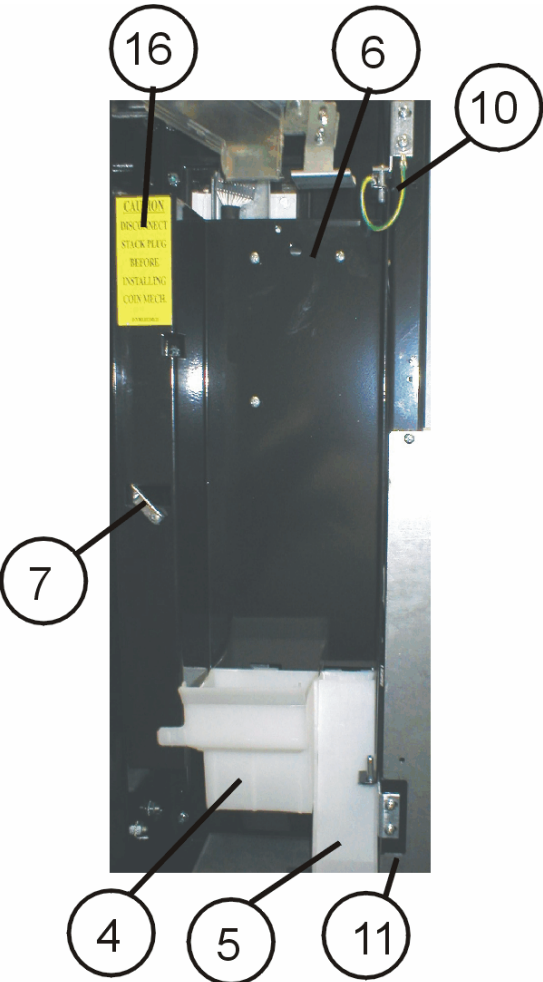
| ITEM | PART DESCRIPTION                               | DN552P         |
|------|------------------------------------------------|----------------|
| 1    | Main Door Assembly P-Series 7 Up Generic Round | 640,051,00x.x3 |
| 1a   | Door Weld Assembly                             | 000213         |
| 2    | Trim, Side 69 1/8"                             | 801,809,67x.x1 |
| 3    | Trim, Top/Bottom 37.62"                        | 000203         |
| 4    | Plate, Filler Bill Validator                   | 360,050,72x.x3 |
| 5    | Sign, 7 Up Splash                              | 805,034,04x.x1 |
| 6    | T handle Assembly                              | 801,508,20x.x1 |
| 7    | Port Trim (Trimspacer)                         | 801,810,11x.x1 |
| 8    | Gasket, Port Press On (Not Shown)              | 801,810,46x.x1 |
| 9    | Assembly, Coin Insert                          | 461,150,80x.x3 |
| 10   | Push Button Coin Return                        | 801,807,25x.x1 |
| 11   | Latch, Tab Lock Large Port (Not Shown)         | 801,304,91x.x1 |
| 12   | Vandal Panel (Specify Color)                   | 165,150,33x.x3 |
| 13   | Label, Coin Insert, Generic (Not Shown)        | 803,837,66x.x1 |
| 14   | Label, Money Removed Daily (Not Shown)         | 903,805,70x.x1 |
| 15   | Label, Warning Do Not Tilt (Not Shown)         | 803,868,29x.x1 |



MAIN DOOR INTERIOR (A)

| ITEM | PART DESCRIPTION           | DN552P          |
|------|----------------------------|-----------------|
| 1    | Closure Strip              | 609,050,14x.x3  |
| 2    | Rain Guard                 | 169,050,34x.x3  |
| 3    | Wide Delivery Port         | 801,813,39x.x1  |
| 4    | Carriage Bolt 1/4 -20x 3/8 | 900,201,54x.x1  |
| 5    | Hex nut 1/4 - 20           | 900,800,67x.x1  |
| 6    | Cash Box                   | 432,051,80x.x3  |
| 7    | Shelf, Cash Box            | 432,050,18x.x3  |
| 8    | L Profile Gasket 35"       | 803,601,12x.x01 |
| 9    | Transformer, P-Series      | 000114          |



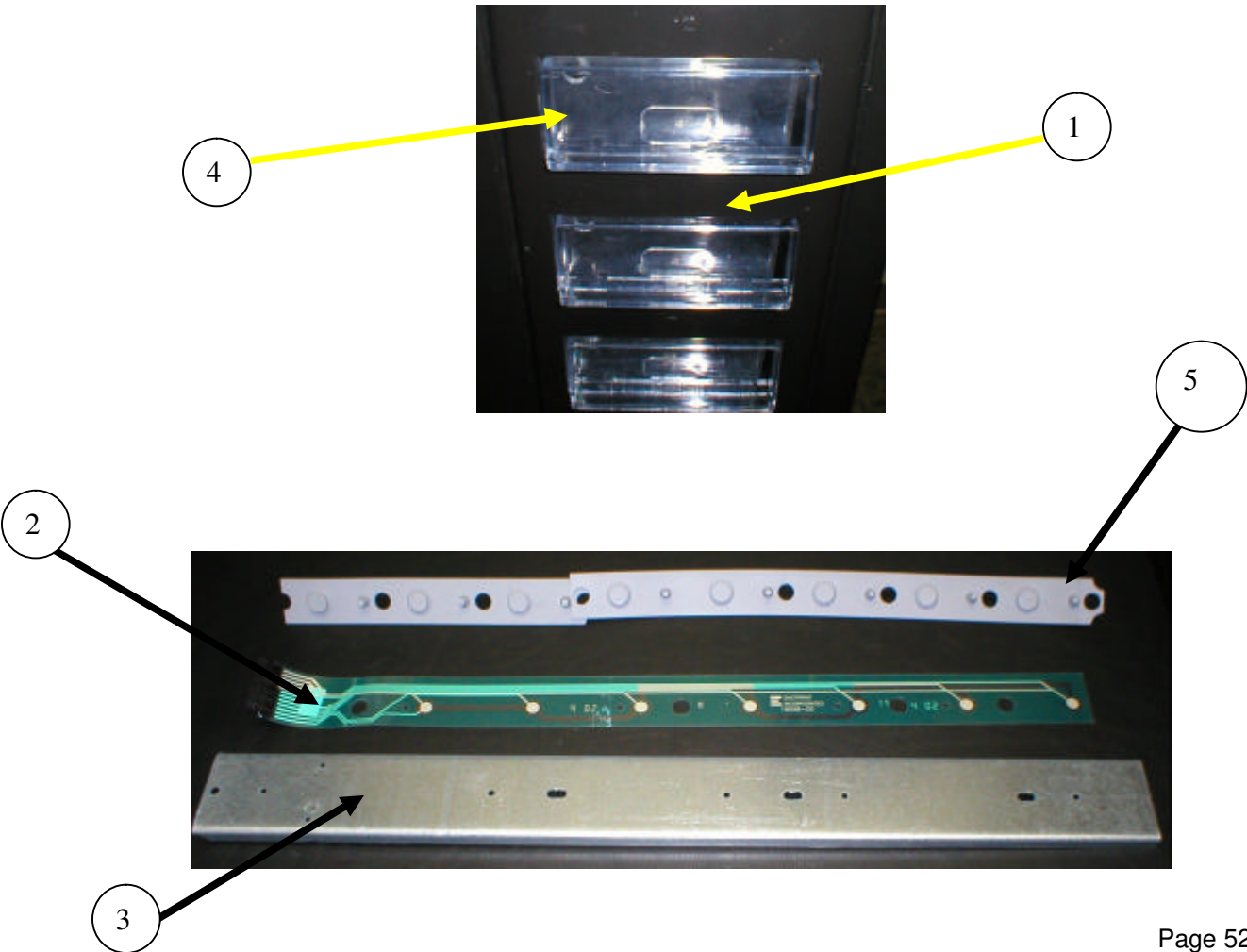


**MAIN DOOR INTERIOR (B)**

| ITEM | DESCRIPTION                                  | DN552P         |
|------|----------------------------------------------|----------------|
| 1    | Sub assembly Coin Insert (Includes T Handle) | 572,060,60x.x3 |
| 1a   | Coin Return Bracket                          | 572,050,24x.x3 |
| 1b   | T Handle Assembly Flush Mount                | 801,508,20x.x1 |
| 1c   | Button, Push Coin Return                     | 801,807,25x.x1 |
| 1d   | Coin Return Rocker                           | 572,050,22x.x3 |
| 1e   | Roller Pin                                   | 900,502,19x.x1 |
| 1f   | Roller Pin Retainer                          | 900,900,90x.x1 |
| 1g   | Coin Return Spring                           | 901,700,63x.x1 |
| 1h   | Plunger, Coin Return                         | 572,050,23x.x3 |
| 1i   | Retainer, High Security                      | 572,000,01x.x3 |
| 2    | Coin Insert Chute Cover Clear                | 801,805,80x.x1 |
| 3    | Coin Insert Chute Clear                      | 801,805,79x.x1 |
| 4    | Hopper & Chute Assembly Non-HG               | 801,806,58x.x1 |
| 5    | Coin Chute Front Non-HG                      | 801,806,59x.x1 |
| 6    | Assembly Access Door                         | 491,052,00x.x3 |
| 7    | Latch Access Door                            | 801,304,53x.x1 |
| 8    | Door Switch                                  | 804,100,77x.x1 |
| 9    | Carriage Bolt, 1/4 20 x 3/4                  | 900,201,56x.x1 |
| 10   | Hinge, Top Access Door                       | 432,051,00x.x3 |
| 11   | Hinge, Bottom Access Door                    | 432,051,10x.x3 |
| 12   | Hex nut 1/4 20                               | 900,800,67x.x1 |
| 13   | Screw, 8-18x1/2 SD Phil Pan                  | 900,301,50x.x1 |
| 14   | Screw, 8-32x1/4 Phil Pan                     | 900,301,97x.x1 |
| 15   | Hex Nut 8-32                                 | 900,800,50x.x1 |
| 16   | Label, Precaution Access Door                | 803,833,04x.x1 |

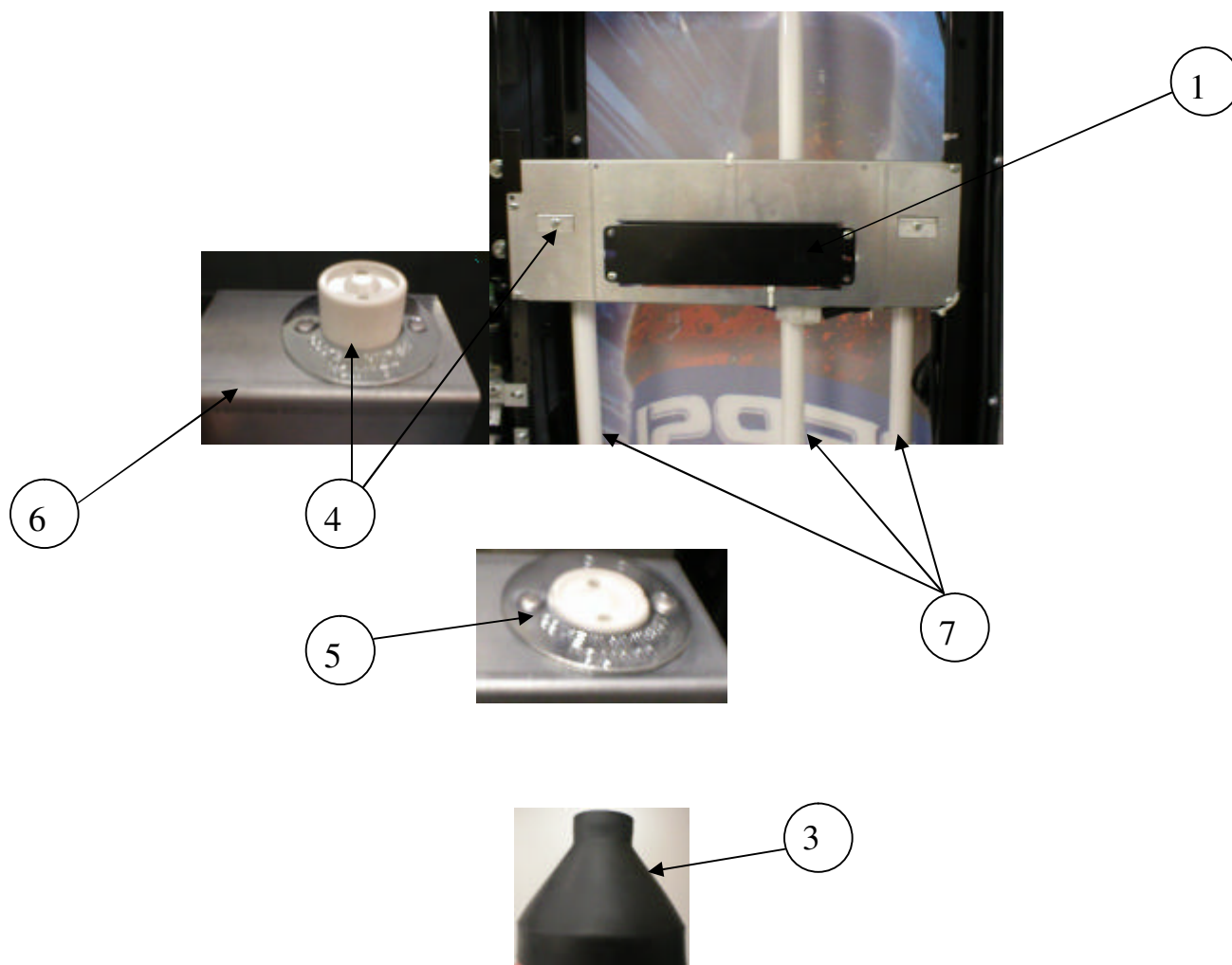
SELECT PANEL

| ITEM | PART DESCRIPTION                           | DN552P         |
|------|--------------------------------------------|----------------|
| 1    | Select Panel Assembly, 7 Select            | 594,054,30x.x3 |
| 1a   | Weld assembly Select Panel Not Shown       | 594,055,00x.x3 |
| 2    | Switch, Membrane 7 select                  | 804,913,01x.x1 |
| 3    | Assembly, Chassis & Stud                   | 594,054,70x.x3 |
| 4    | Select Button (Membrane)                   | 801,809,24x.x1 |
| 5    | Keypad, 5 Position                         | 801,809,26x.x1 |
| 6    | Harness, Membrane "From Board to Membrane" | 804,921,13x.x1 |
| 7    | Standoff, .187 x .312 x .625               | 901,001,44x.x1 |
| 8    | Hex Nut # 8 -32                            | 900,800,50x.x1 |



## T8 LIGHTING

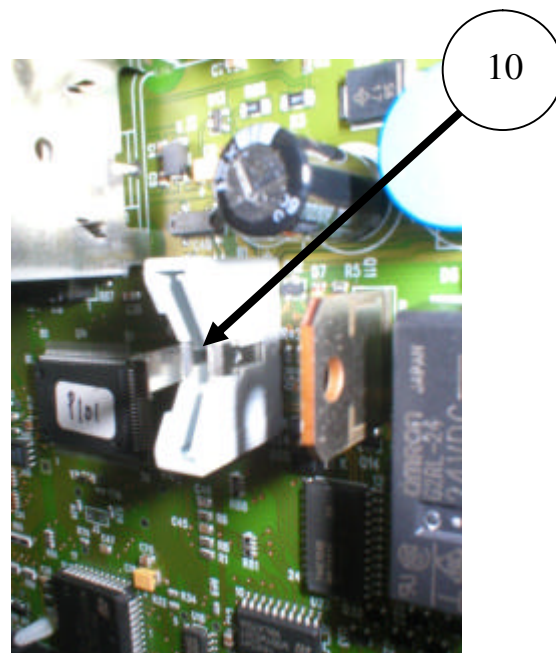
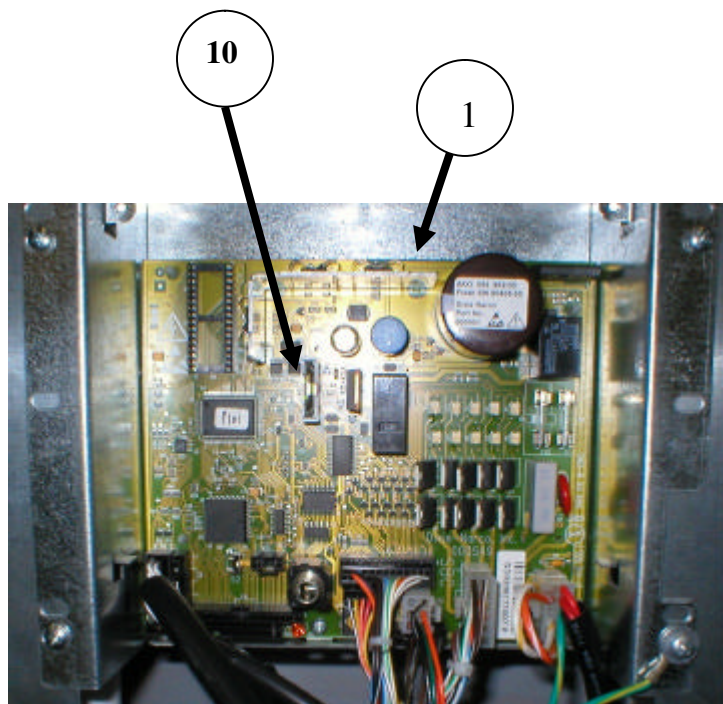
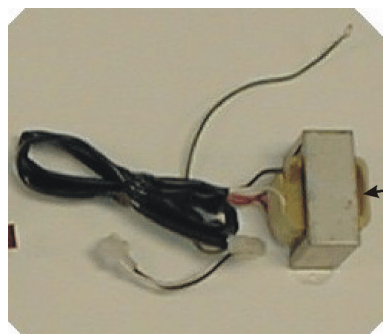
| ITEM | PART DESCRIPTION                 | DN552P         |
|------|----------------------------------|----------------|
| 1    | Ballast T8                       | 804,400,61x.x1 |
| 2    | T8 Lighting Harness (Not Shown)  | 804,918,34x.x1 |
| 3    | Fluorescent Lamp Boot            | 802,001,44x.x1 |
| 4    | Top Lampholder T8 Leviton 518    | 804,918,58x.x1 |
| 5    | Bottom Lampholder T8 Leviton 519 | 804,918,59x.x1 |
| 6    | Lamp Socket (6)                  | 562,050,04x.x3 |
| 7    | T8 Lamp, 4' (3)                  | 804,700,76x.x1 |



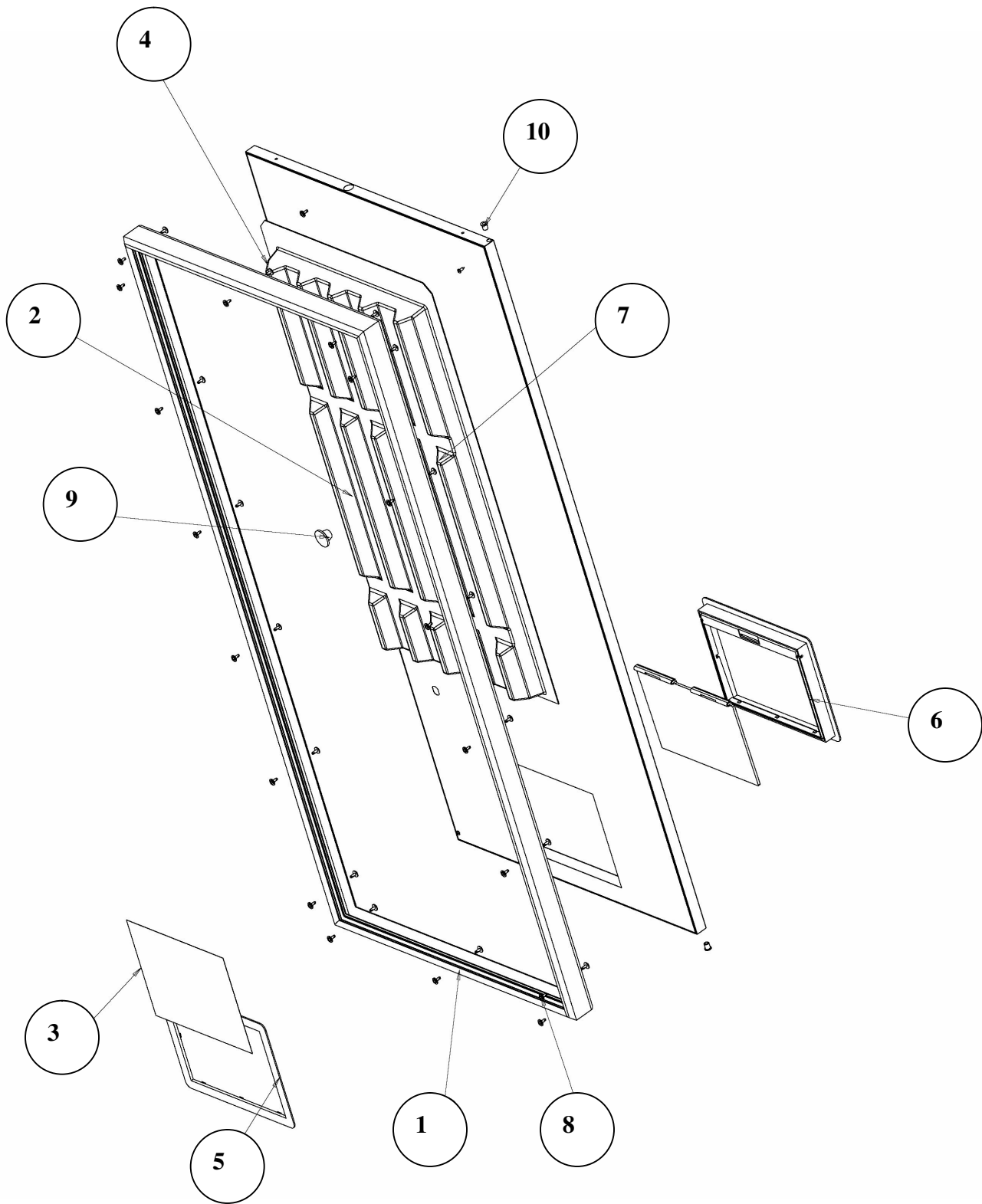


## ELECTRONIC COMPONENTS

| ITEM | PART DESCRIPTION                         | DN552P         |
|------|------------------------------------------|----------------|
| 1    | Control Board Assembly SBC               | 640,010,10x.x3 |
| 2    | Display Board 14 Segment                 | 804,910,96x.x1 |
| 3    | Transformer                              | 000114         |
| 4    | Fuse 1.6 Amp (F1)                        | 804,800,71x.x1 |
| 5    | Fuse, 6 Amp Fast Acting (F2)             | 804,910,93x.x1 |
| 6    | Controller Cover - Not Shown             | 801,306,16x.x1 |
| 7    | Label, Fuse - Not Shown                  | 803,857,06x.x1 |
| 8    | SBC Eprom Control Board                  | 804,920,87x.x1 |
| 9    | Rain Curtain, Control Board - Not Shown  | 801,904,23x.x1 |
| 10   | Battery, 3V Lithium (CR2032) - Not Shown | 804,920,45x.x1 |



INNER DOOR



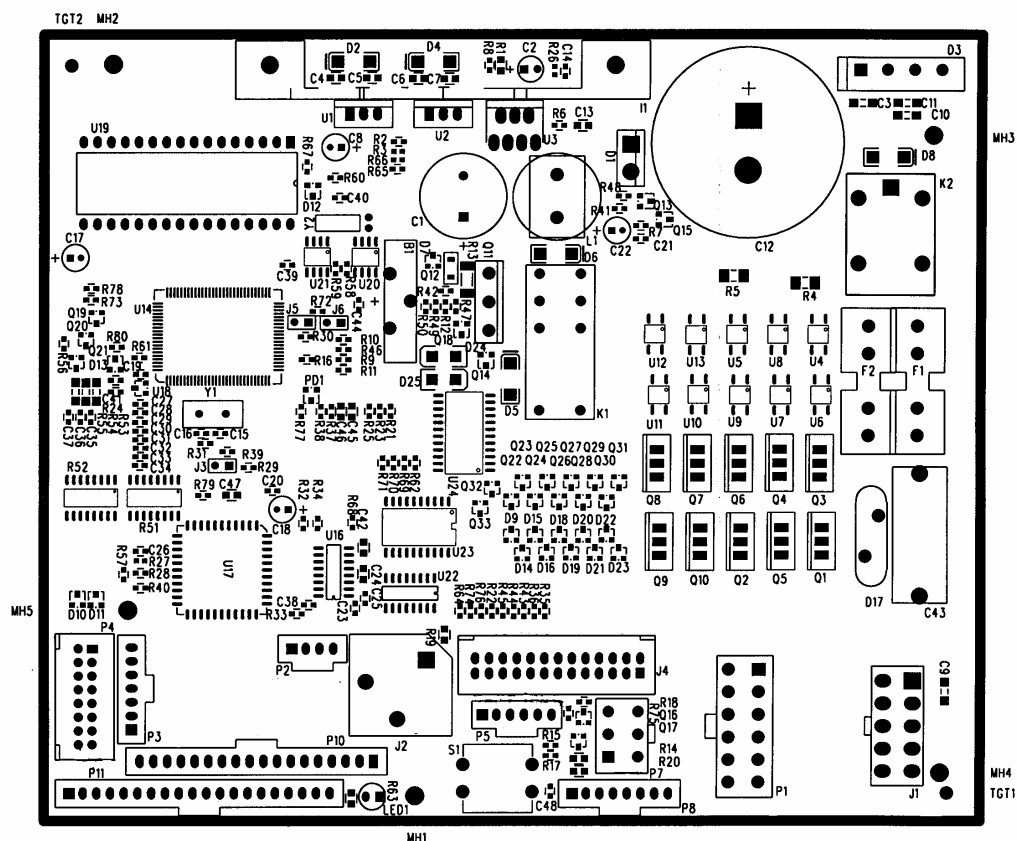
## INNER DOOR

| ITEM | PART DESCRIPTION                    | DN552P         |
|------|-------------------------------------|----------------|
|      | Inner Door Assembly                 | 640,050,40x.x3 |
| 1    | Inner Door Gasket                   | 801,819,05x.x1 |
| 2    | Sub Assembly Inner Door             | 640,050,70x.x3 |
| 3    | Label, STS/Package Set Up           | 803,871,37x.x1 |
| 4    | Gate, Front Product Positioner      | 801,819,15x.x1 |
| 5    | Discharge Frame Retainer            | 801,809,15x.x1 |
| 6    | Assembly Discharge Frame            | 801,809,16x.x1 |
| 6a   | Assembly Discharge Door             | 801,809,17x.x1 |
| 6b   | Frame, Discharge                    | 801,809,14x.x1 |
| 6c   | Rod, Hinge (Not Shown)              | 801,401,70x.x1 |
| 7    | Carriage Bolt 1/4-20x1/4            | 900,201,23x.x1 |
| 8    | Screw, SD Phil Pan Sems             | 900,301,65x.x1 |
| 9    | Pull Knob                           | 901,501,70x.x1 |
| 10   | Inner Door Bushing (Bearing)        | 801,806,42x.x1 |
| 11   | Bushing Retainer (Not Shown)        | 801,806,43x.x1 |
| 12   | Plastic Bearing (Not Shown)         | 901,803,71x.x1 |
| 13   | Top Inner Door Hinge (Not Shown)    | 169,053,00x.x3 |
| 14   | Bottom Inner Door Hinge (Not Shown) | 169,051,10x.x3 |
| 15   | Inner Door Lock Kit                 | 631,151,50x.x4 |



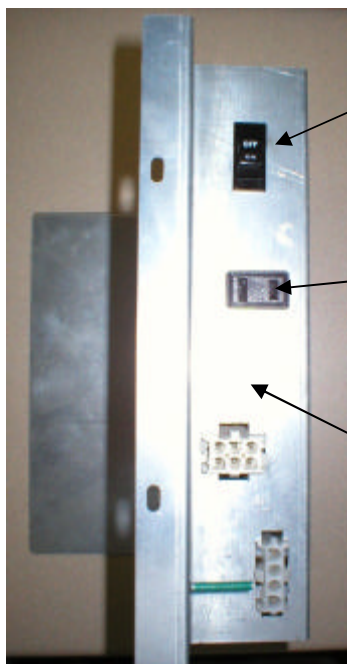
## HARNESSING Single Board (SBC)

| ITEM | PART DESCRIPTION                              | DN552P         |
|------|-----------------------------------------------|----------------|
| 1    | Motor Harness (Stack)                         | 000594         |
| 2    | Board Power Harness (includes transformer) J1 | 000114         |
| 3    | Harness, P-Series 44" Door                    | 000110         |
| 4    | Harness, MDB 25"                              | 804,920,83x.x1 |
| 5    | Harness, Membrane                             | 804,921,13x.x1 |
| 6    | 66" DEX Harness                               | 804,907,83x.x1 |
| 7    | Display Harness (P3 to display board)         | 804,919,57x.x1 |
| 8    | Secondary DEX Harness                         | 804,913,97x.x1 |
| 9    | MDB and Lock Power Harness (P7)               | 804,919,57x.x1 |
| 10   | Harness, Relay Power Distribution             | 804,920,96x.x1 |
| 11   | Harness, Power Distribution (In)              | 804,920,98x.x1 |
| 12   | Harness, Power Distribution (Out)             | 804,920,97x.x1 |
| 13   | Harness, AC Distribution                      | 804,921,15x.x1 |
| 14   | Harness, AC Dist Extended                     | 000113         |
| 15   | Harness, Door Switch Extended                 | 804,921,01x.x1 |
| 16   | Power cord, Detachable                        | 804,917,28x.x1 |
| 17   | Evaporator Fan Harness - 3                    | 804,921,73x.x1 |



- |    |                   |     |                |
|----|-------------------|-----|----------------|
| P1 | Motor             | P10 | Sold Out LED's |
| P2 | Secondary DEX     | P11 | Ready to Vend  |
| P3 | Display           | J1  | AC Power       |
| P4 | Select Switches   | J2  | DEX            |
| P5 | Temp Sensor       | J4  | Cam / Sold Out |
| P7 | MDB               | B1  | Battery        |
| P8 | Energy Management |     |                |

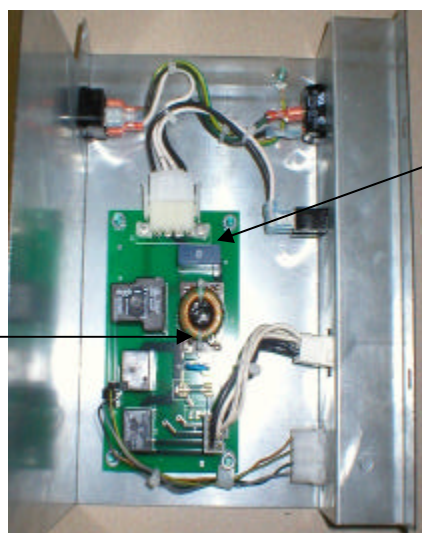
## POWER DISTRIBUTION



Power Switch  
804,915,15x.x1

Power outlet 110V  
804,913,62x.x1

Power Dist Box Ass'y  
639,030,00x.x3

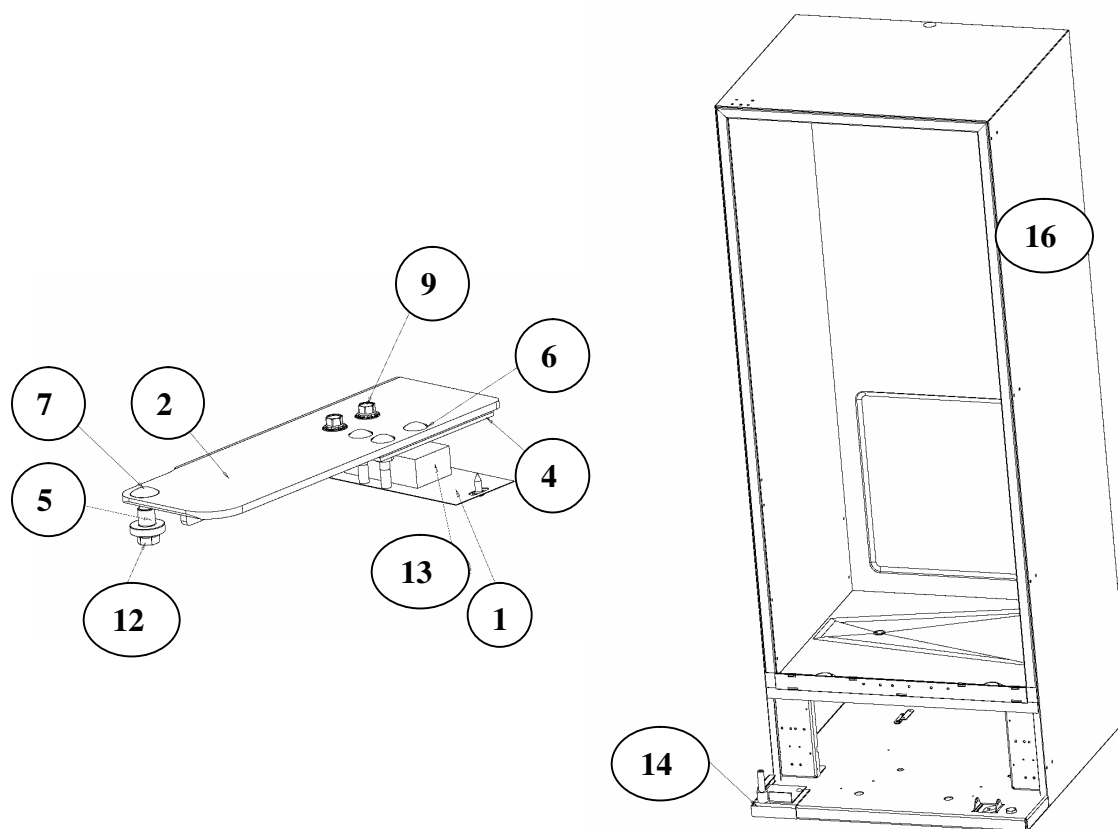


Board with 3 Relays  
804,921,06x.x1

Fuse 1.6 Amp  
804,800,71x.x1

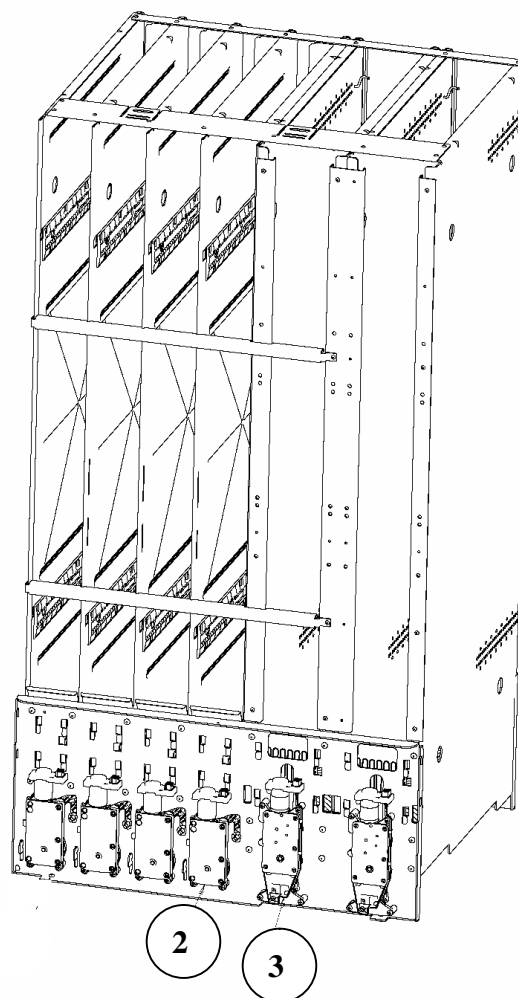
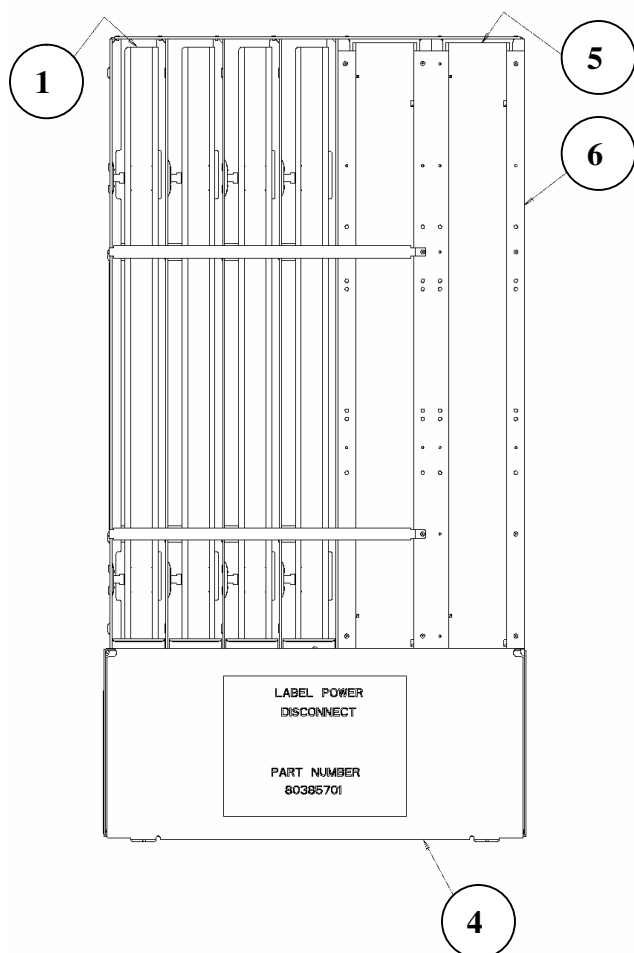
## CABINET AND VEND MECHANISM (Section 1)

| ITEM | PART DESCRIPTION                    | DN552P         |
|------|-------------------------------------|----------------|
| 1    | Cover, Hinge Pocket                 | 631,051,07x.x3 |
| 2    | Weld assembly Top Hinge (Main Door) | 631,051,12x.x3 |
| 3    | Kit, Door Hinge                     | 639,050,70x.x3 |
| 4    | Hinge, Spacer                       | 169,000,15x.x3 |
| 5    | Bearing, Hinge – Pin less           | 805,300,42x.x1 |
| 6    | Bolt, Carriage ¼ - 20 x 1 ¼ (3)     | 900,201,23x.x1 |
| 7    | Bolt, Carriage 5/16 – 18 x 1 ¼ (1)  | 900,201,85x.x1 |
| 8    | Screw, Phil Pan 8 – 18 x ½ (1)      | 900,301,50x.x1 |
| 9    | Screw, Hex Tap 14-20 x 1 (2)        | 900,301,73x.x1 |
| 10   | Sleeve, bottom hinge                | 900,502,64x.x1 |
| 11   | Hex Nut ¼ - 20                      | 900,800,67x.x1 |
| 12   | Nut, Hex Jam 5/16 - 18              | 900,801,02x.x1 |
| 13   | Block, Foam                         | 903,300,77x.x1 |
| 14   | Hinge, Bottom (Main Door)           | 631,152,40x.x3 |
| 15   | Stack Supports (Not Shown)          | 639,070,26x.x3 |
| 16   | Foam Cabinet Assembly               | 640,060,20x.x3 |



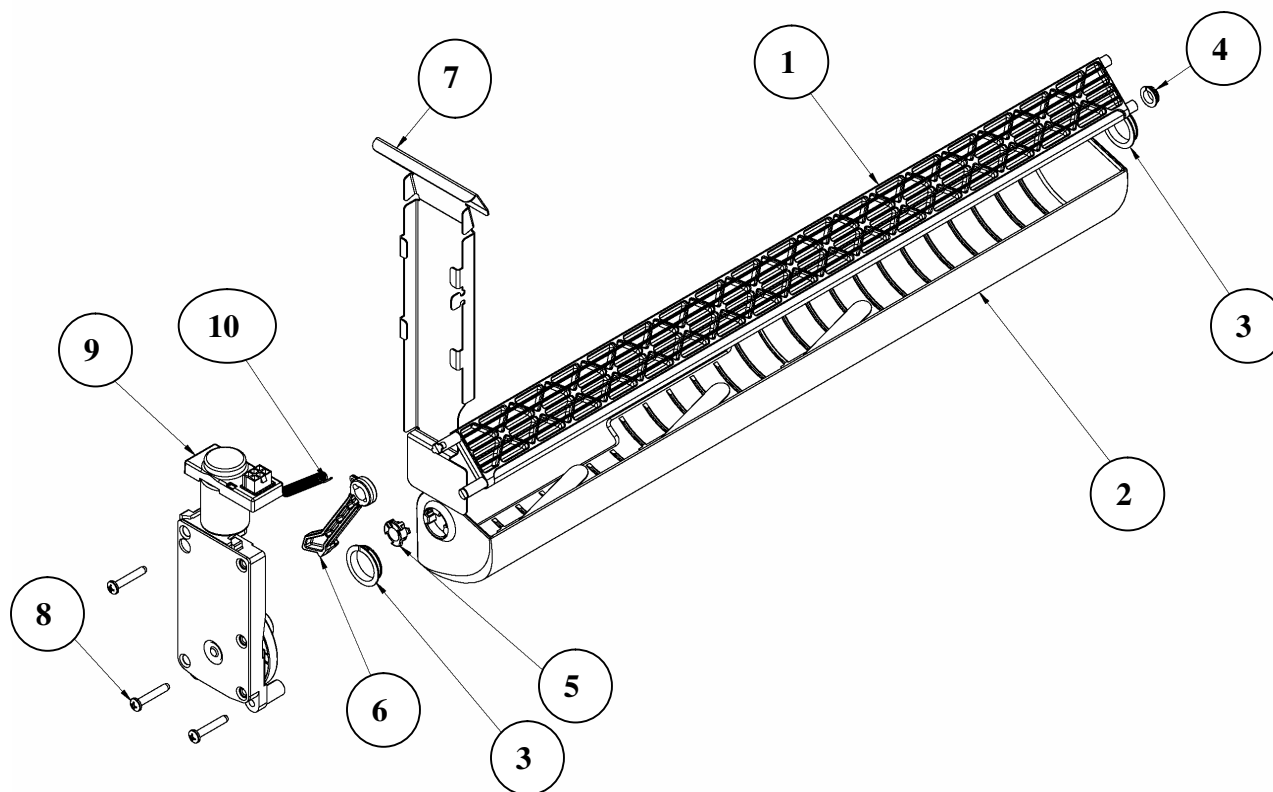
### CABINET AND VEND MECHANISM (Section 2)

| ITEM | DESCRIPTION                 | DN552P         |
|------|-----------------------------|----------------|
| 1    | Assembly Rear Spacer Narrow | 000164         |
| 2    | Vend Motor - Narrow Column  | 804,501,23x.x1 |
| 3    | Vend Motor - Wide Column    | 000908         |
| 4    | Vend Motor Cover            | 640,070,06x.x3 |
| 5    | Assembly Rear Spacer Wide   | 000165         |
| 6    | Stack Assembly 6 Column     | 640,070,90x.x3 |
| A9   | Screw, Phil Pan 8-32x1 (12) | 000065         |



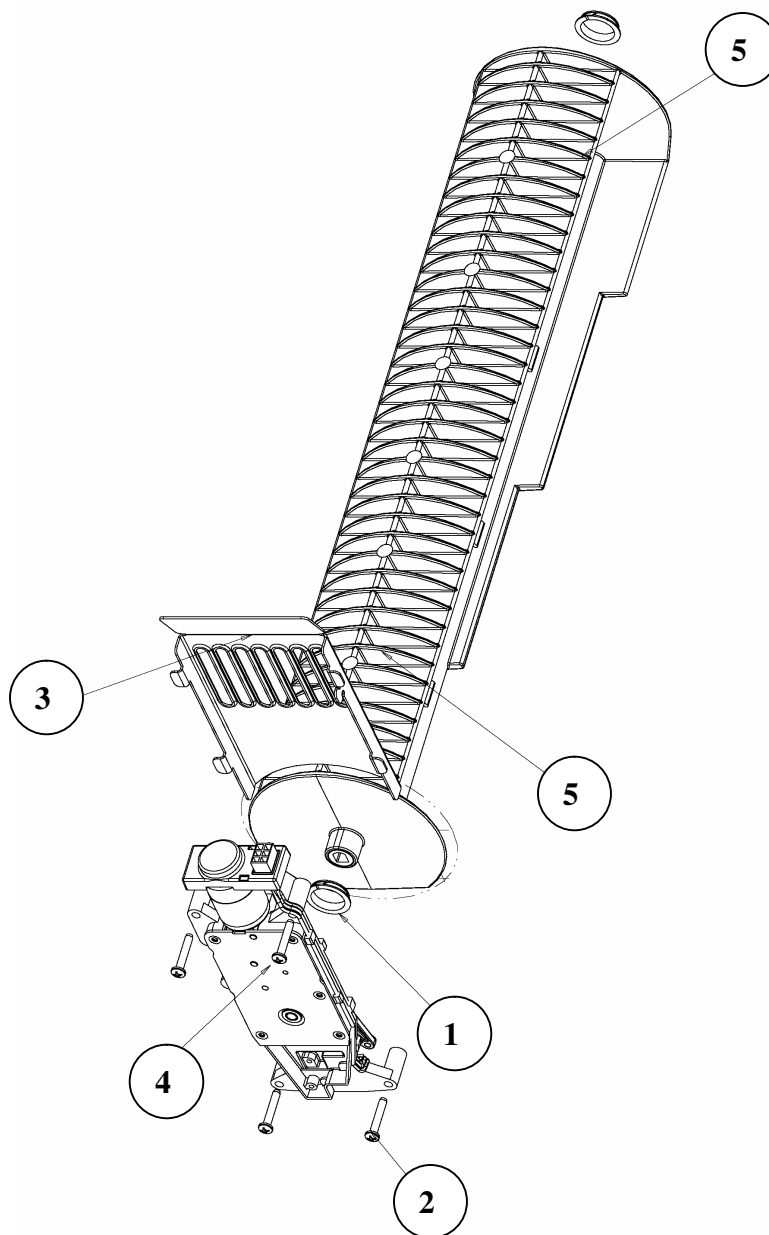
**CABINET AND VEND MECHANISM**  
**(Section 2)**

| ITEM | DESCRIPTION                           | DN552P         |
|------|---------------------------------------|----------------|
| 1    | Load Bar - steel                      | 801,306,59x.x1 |
| 2    | Vend Rotor - Narrow Column            | 000002         |
| 3    | Nyliner, .750                         | 000018         |
| 4    | Nyliner, .312                         | 000019         |
| 5    | Bushing, .312 (Load Bar)              | 000020         |
| 6    | Push Arm                              | 000062         |
| 7    | Front Gate Extension (Narrow)         | 639,070,14x.x3 |
| 8    | Screw, Phil Pan 8-32x1                | 000065         |
| 9    | Vend Motor Assy., Narrow (Electronic) | 804,501,23x.x1 |
| 10   | Spring – Push Arm                     | 000539         |



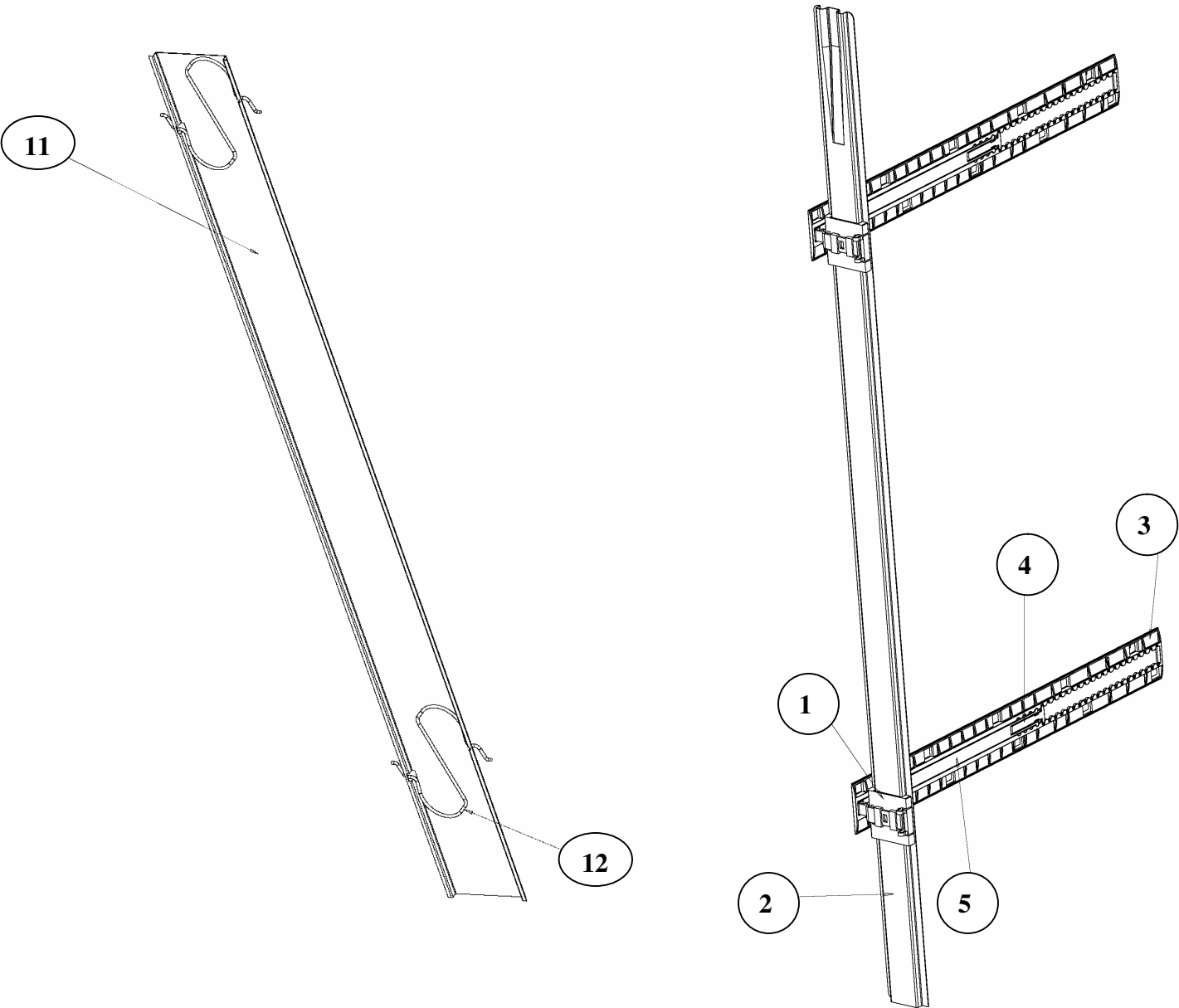
**CABINET AND VEND MECHANISM  
(Section 2)**

| ITEM | DESCRIPTION                         | DN552P         |
|------|-------------------------------------|----------------|
| 1    | Nyliner, .750                       | 000018         |
| 2    | Screw, 8-32 x 1 Phil Pan            | 000065         |
| 3    | Front Gate Extension, Wide          | 639,070,13x.x3 |
| 4    | Vend Motor Assy., Wide (Electronic) | 000908         |
| 5    | Vend Oscillator - Wide Column       | 801,201,73x.x1 |
| 6    | Package Retainer - Oscillator       | 801,807,87x.x1 |



CABINET AND VEND MECHANISM  
(Section 2)

| ITEM | PART DESCRIPTION             | DN552P         |
|------|------------------------------|----------------|
|      | Assembly Rear Spacer, Narrow | 000164         |
| 1    | Bracket Rear Spacer, Narrow  | 000071         |
| 2    | Spacer Rear Narrow           | 639,070,27x.x3 |
| 3    | Guide Channel                | 000926         |
| 4    | Latch, Rear Spacer           | 000927         |
| 5    | Assembly Guide Arm           | 000936         |
|      | Assembly Rear Spacer, Wide   | 000615         |
| 11   | Rear Spacer, Wide            | 000614         |
| 12   | Latch Spring Wide            | 901,700,87x.x1 |



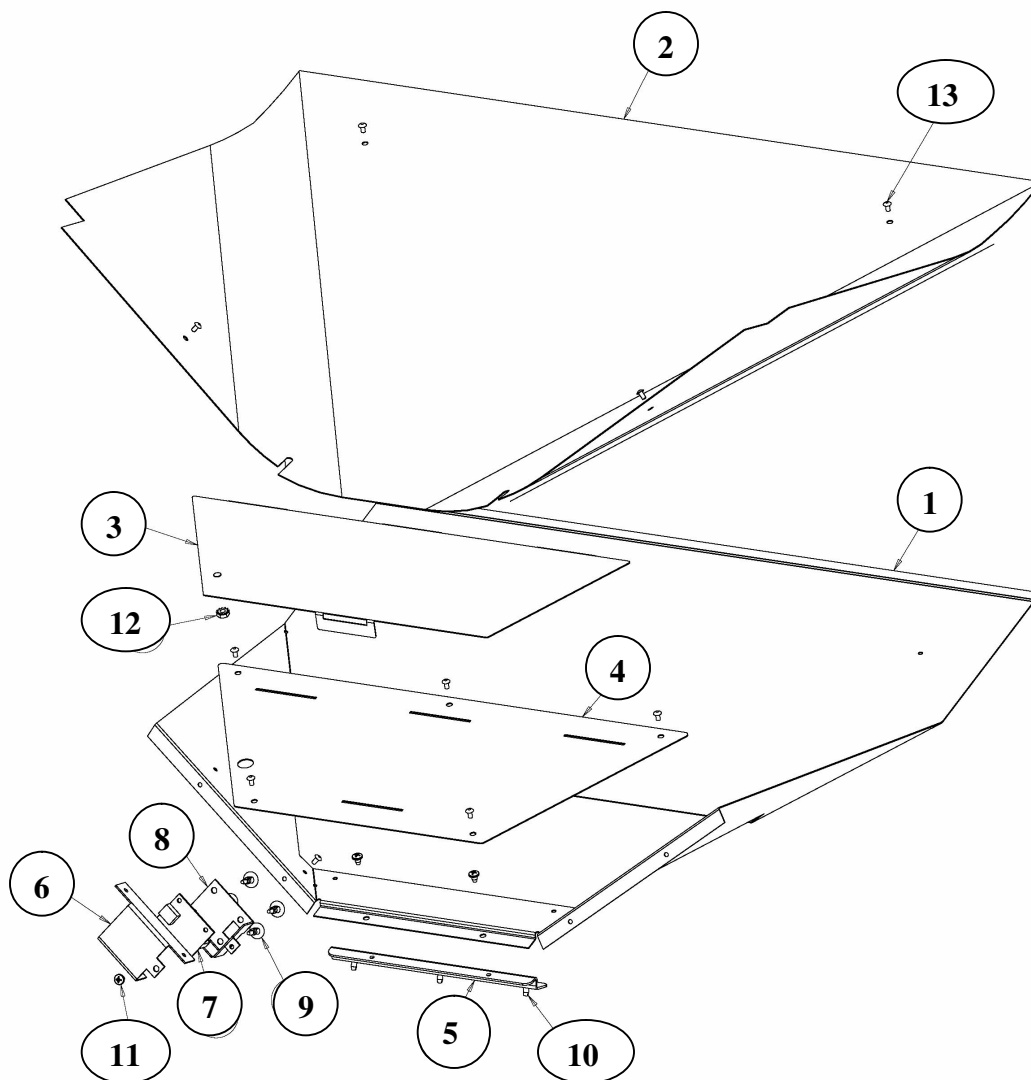
### CABINET AND VEND MECHANISM (SECTION 3)

| ITEM | DESCRIPTION                                                 | DN552P          |
|------|-------------------------------------------------------------|-----------------|
| 1    | Plate, Protective Left Side (Specify Color)                 | 594,020,14x.x3  |
| 2    | Plate, Protective Right Side Cabinet (Specify Color)        | 165,000,04x.x3  |
| 3    | Caterpillar Grommeting                                      | 801,809,93x.x1  |
| 4    | Mullion                                                     | 000076          |
| 5    | Mullion Cap                                                 | 801,818,92x.x1  |
| A4   | Screw, Phil Pan 8-18x1/2                                    | 900,301,50x.x1  |
| A5   | Screw, Phil Pan Swage Form #8-32x1/4"                       | 900,301,97x.x1  |
| A9   | Screw, Phil Pan 8-32x3/8                                    | 900,301,56x.x1  |
| A10  | Screw, Machine #6-32x1 1/4"                                 | 900,201,31x.x1  |
| A14  | Screw, Phil Pan 10-32x1 1/4                                 | 900,301,81x.x1  |
| A16  | Screw, Phil Pan Sems 8-18x1/2"                              | 900,301,65x.x1  |
| A17  | Screw, Type F 1/4-20x5/8 (Stack Bolts)                      | 900,302,01x.x1  |
| A19  | Screw, Phil Pan 10-32x5/8                                   | 900,901,51x.x1  |
| A21  | Screw, Phil Pan 8-18x1/2                                    | 900,301,98x.x1  |
| A26  | Screw, Phil Pan 8-18x3/4                                    | 800,303,15x.x1  |
| B2   | Hex Nut 1/4"-20                                             | 900,800,67x.x1  |
| C6   | Lockwasher, Shakeproof 5/8" (1132-00-00-0551), Leveling Leg | 900,700,89x.x1  |
| C8   | Washer, Shakeproof (4610-16-01-0551)                        | 900,700,62x.x1  |
| E9   | Carriage Bolt 1/4-20x5/8                                    | 800,303,19x.x1  |
| F1   | Pop Rivet, Aluminum 1/4"                                    | 901,100,43x.x1  |
| F5   | Pop Rivet, Steel (Zinc Plated) 1/8"                         | 901,100,61x.x1  |
| F6   | Pop Rivet, Aluminum 1/8"                                    | 901,100,53x.x1  |
| H2   | Tinnerman Clip, Fan Shroud (C5207-014-3B)                   | 900,901,.89x.x1 |
| H7   | Hole Plug, Snap In - 1 1/4                                  | 801,807,01x.x1  |
| I6   | Clamp, Nylon 5/16 White Heyco 3555 or Dennison 10159        | 800,902,51x.x1  |
| I7   | Clamp, Nylon 1/2" Heyco 3328                                | 900,901,80x.x1  |

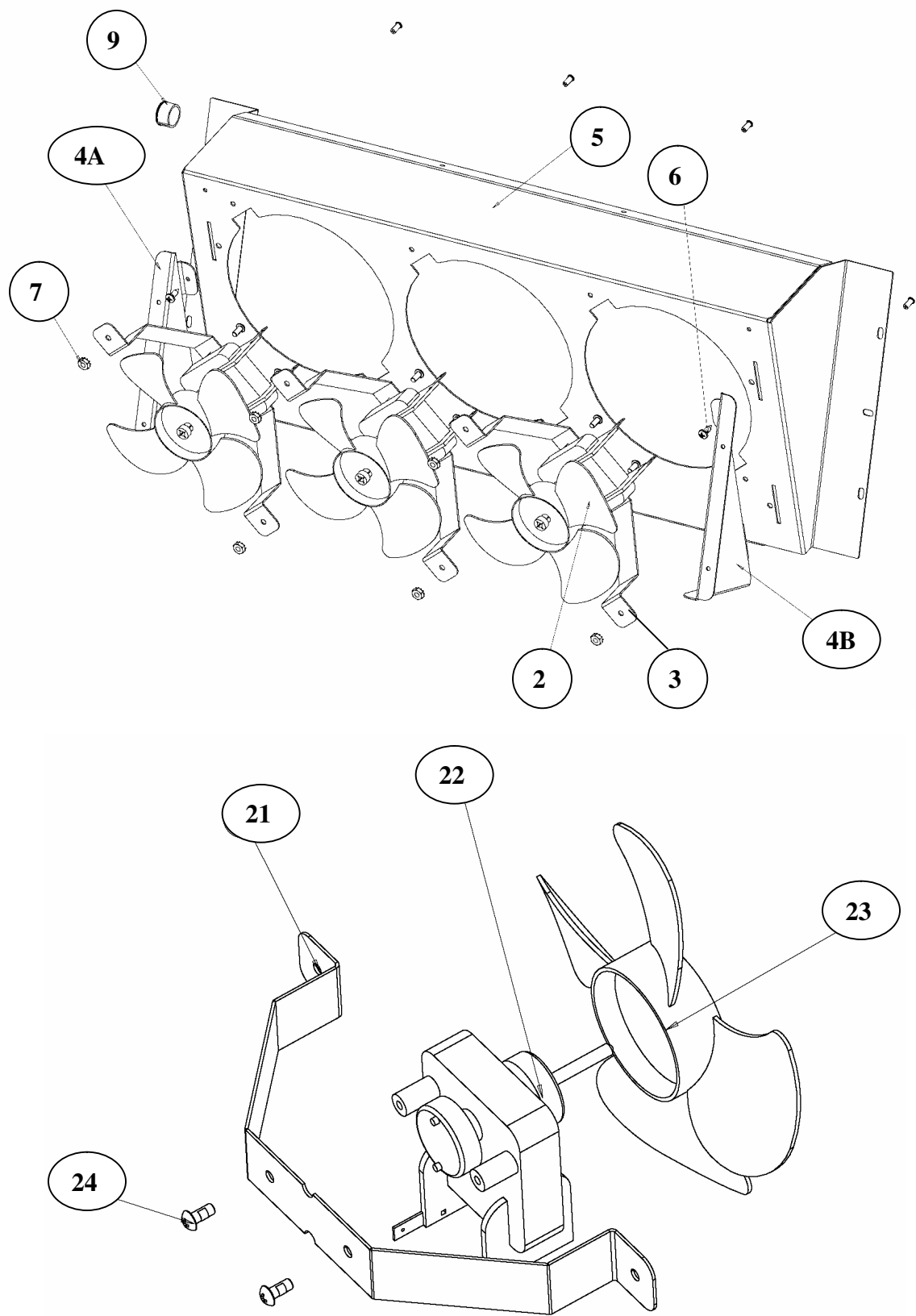


## CHUTE ASSEMBLY

| ITEM | PART DESCRIPTION                  |                |
|------|-----------------------------------|----------------|
|      | Chute Assembly                    | 640,070,30x.x3 |
| 1    | Chute                             | 640,070,09x.x3 |
| 2    | Liner, Chute                      | 640,070,13x.x3 |
| 3    | Sensor Plate Assembly             | 000649         |
| 4    | Sensor Support Plate              | 000650         |
| 5    | Bracket, Chute                    | 000658         |
| 6    | Housing Vend Sensor Board         | 000888         |
| 7    | Board, Vend Sensor                | 000902         |
| 8    | Cover, Sensor Housing             | 000937         |
| 9    | Standoff                          | 801,903,80x.x1 |
| 10   | Screw, 8-32 x 3/8 Phil Pan Type 1 | 900,301,56x.x1 |
| 11   | Screw, 8-32 Phil Pan, Swageform   | 900,301,97x.x1 |
| 12   | Hex Nut #8-32                     | 900,800,50x.x1 |
| 13   | Rivet 1/8 Steel Zinc Plate        | 901,100,61x.x1 |
| 14   | Jumper, Vend Sensor Board         | 000919         |



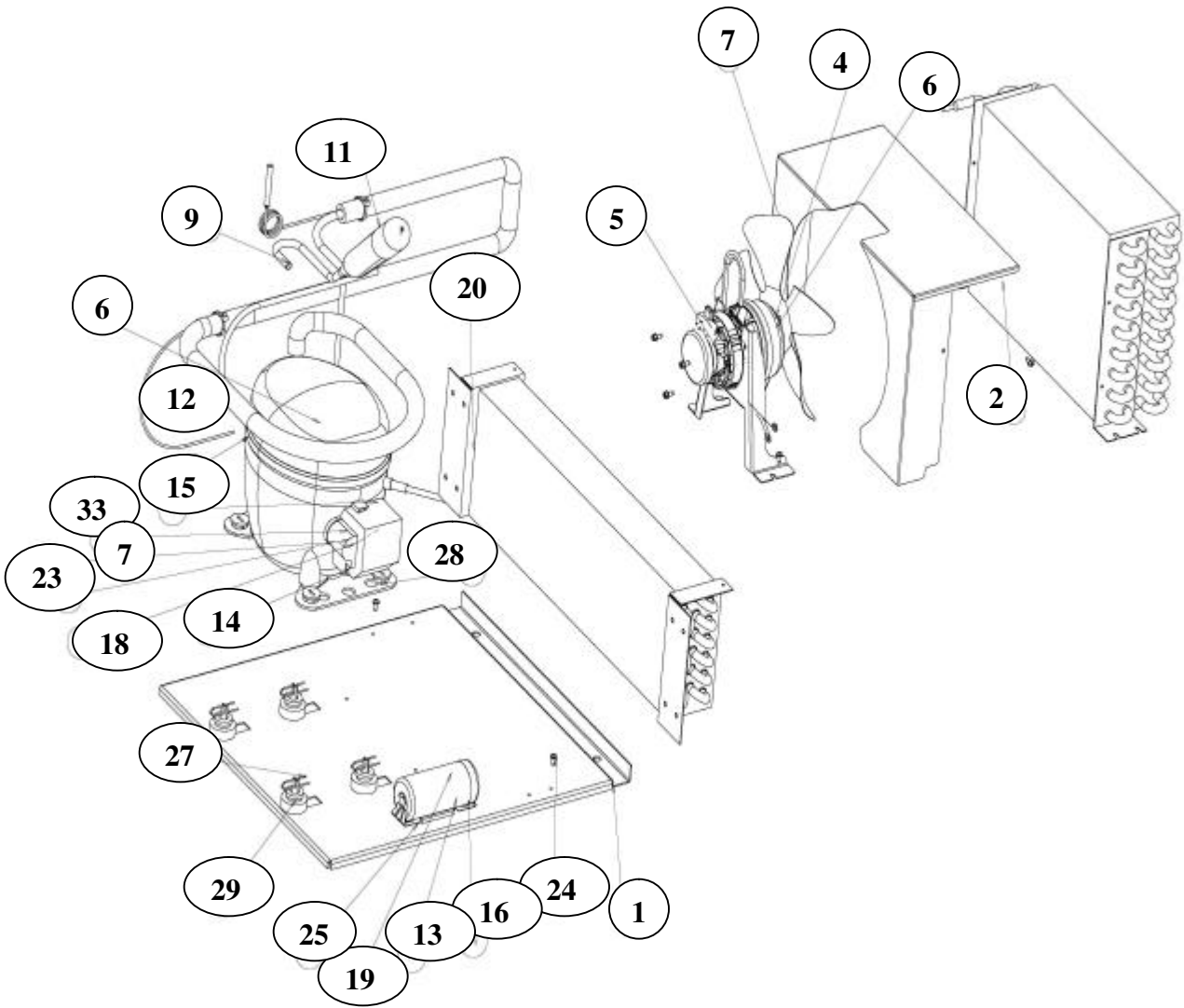
EVAPORATOR FAN ASSEMBLY



## EVAPORATOR FAN ASSEMBLY

| ITEM | DESCRIPTION                                                 | DN552P         |
|------|-------------------------------------------------------------|----------------|
| 1    | Harness, Evaporator Fan                                     | 804,921,73x.x1 |
| 2    | Evaporator Fan Motor Assy. 115V/60Hz                        | 640,040,30x.x3 |
| 3    | Bracket, Evaporator Fan Motor                               | 640,040,06x.x3 |
| 4A   | Bracket, Evaporator Fan Panel Left Hand                     | 640,040,08x.x3 |
| 4B   | Bracket, Evaporator Fan Panel Right Hand                    | 640,040,07x.x3 |
| 5    | Sub Assembly Evaporator Fan Shroud – 3                      | 640,040,20x.x3 |
| 6    | Screw, Phil Pan 8 - 18 x 1/2"                               | 900,301,50x.x1 |
| 7    | Hex Nut                                                     | 900,800,65x.x1 |
| 8    | Tie, 5.5 " Hand                                             | 901,901,06x.x1 |
| 9    | Bushing, 3/4" split Heyco                                   | 901,902,17x.x1 |
| 10   | Screw, Sems Phil Pan 8 – 32 x 3/8                           | 800,303,42x.x1 |
| 11   | Strip, Poly Foam 24.5" (under chute) "Air Stop" (Not Shown) | 803,301,38x.x1 |
|      |                                                             |                |
| 21   | Fan Bracket, Evaporator                                     | 640,040,06x.x3 |
| 22   | Evaporator Fan Motor 115V 3000 RPM 0.5 Amp                  | 804,501,25x.x1 |
| 23   | Blade, Fan 6.0" CW (4 blade plastic)                        | 801,818,88x.x1 |
| 24   | Speed Nut (Evaporator fan) (Not Shown)                      | 900,800,85x.x1 |

REFRIGERATION SYSTEM



# REFRIGERATION SYSTEM (SECTION ONE)

| ITEM | DESCRIPTION                                            |                |
|------|--------------------------------------------------------|----------------|
|      | Model 3000C-E Kit 115V/60Hz                            | TBD            |
|      | Model 3000C-E Refrigeration Unit 115V                  | 640,040,50x.x3 |
| 1    | Base Plate                                             | 639,040,02x.x3 |
| 2    | Condenser, 1.33 FPI                                    | 802,600,69x.x1 |
| 3    | Assembly, Heat Exchanger                               | 640,040,00x.x3 |
| 4    | Fan Blade, Condenser (FV900CW30S)                      | 801,306,65x.x1 |
| 5    | Assembly, Condenser Fan Motor 115/60                   | 804,501,24x.x1 |
| 6    | Tube Discharge                                         | 640,040,04x.x3 |
| 7    | Shroud, Condenser                                      | 640,040,02x.x3 |
| 8    | Label, Name Plate 115/60                               | 803,872,04x.x1 |
| 9    | Tube, Evaporator – Accumulator Adapter                 | 491,040,19x.x3 |
| 10   | Solder, Silver 30%                                     | 802,300,04x.x1 |
| 11   | Accumulator                                            | 802,400,46x.x1 |
| 12   | Dryer,.054 Extended outlet, 134A                       | 802,401,29x.x1 |
| 13   | Capacitor End Cap, Bottom Hole                         | 802,501,18x.x1 |
| 14   | Compressor E FFI12HBX 115/60                           | 802,501,74x.x1 |
| 15   | Cover, Embraco (1.355.504 short)                       | 802,501,86x.x1 |
| 16   | Bracket, Capacitor                                     | 802,501,87x.x1 |
| 17   | Overload, MRT 22AFZ-5598                               | 802,502,10x.x1 |
| 18   | Relay, 1.351.605                                       | 802,502,13x.x1 |
| 19   | Capacitor, Start 233-280 MFD/165V                      | 802,502,21x.x1 |
| 20   | Evaporator, Short                                      | 802,600,37x.x1 |
| 21   | Freon, Refrigerant, 134a                               | 802,700,06x.x1 |
| 22   | Tube, ¼ OD x .028 W, Copper                            | 803,000,39x.x1 |
| 23   | Screw, Brass 6-32x1/4                                  | 900,201,44x.x1 |
| 24   | Screw, 8-32x3/8                                        | 900,301,56x.x1 |
| 25   | Screw, Phil Flat Head 10-32x1/2                        | 900,301,94x.x1 |
| 26   | Nut, Speed                                             | 900,800,85x.x1 |
| 27   | Clip, Spring                                           | 900,901,88x.x1 |
| 28   | Plug, Compressor Grommett                              | 901,803,91x.x1 |
| 29   | Grommet, Compressor                                    | 902,000,57x.x1 |
| 30   | Silencer                                               | 902,100,29x.x3 |
| 31   | Solder, 0% Silver Brazing Allow                        | 902,600,52x.x1 |
| 32   | Label, 134a Recoverable Substance                      | 903.833.54x.x1 |
| 33   | Terminal                                               | 904,601,36x.x1 |
| 34   | Lead, Compressor (harness)                             | 904.900.61x.x1 |
| 35   | Rubatex, 27" (Not Shown)                               | 640,040,12x.x3 |
| 36   | Drain Pan Assembly with Fiberglass Soakers (Not Shown) | 805,800,71x.x1 |
| 37   | Soakers, Fiberglass (14 required) (Not Shown)          | 905,800,69x.x1 |
| 38   | Ingress Guard                                          | 000455         |
| 39   | Drain Tube                                             | 801,806,05x.x1 |
| 40   | Drain Tube Nut                                         | 900,301,79x.x1 |
| 41   | Drain Hose                                             | 901,900,50x.x1 |
| 42   | Drain Hose Clamp                                       | 900,901,03x.x1 |
| 43   | Power Cord (Detachable)                                | 804,917,28x.x1 |
| 44   | Temperature Sensor Encapsulated (Not Shown)            | 000115         |

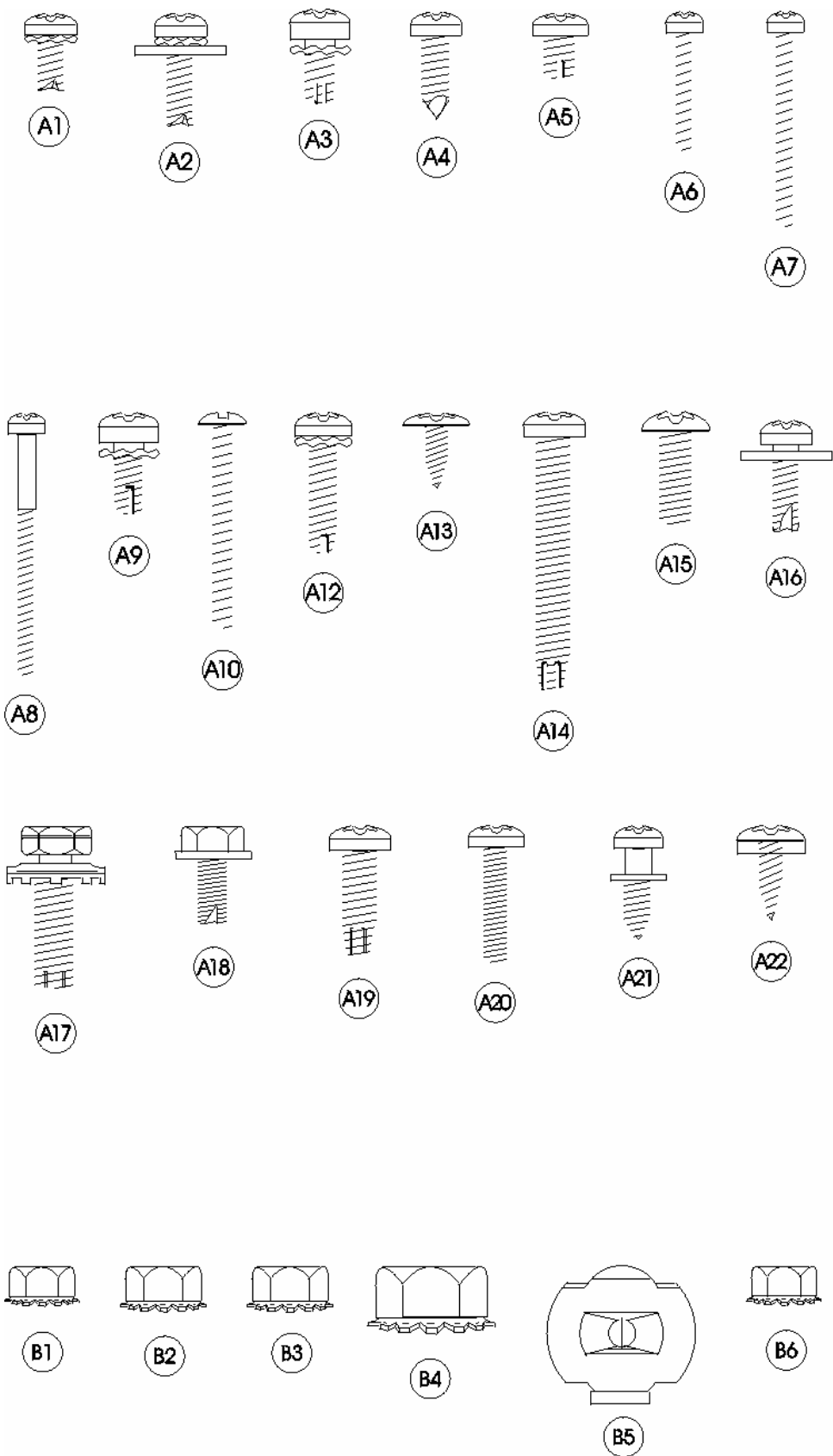
## MISC. LABELS

| ITEM | DESCRIPTION                               | DN552P         |
|------|-------------------------------------------|----------------|
| 1    | Labels                                    |                |
|      | Price Label Sheet .50- 1.25               | 903,828,82x.x1 |
|      | Generic Programming (English)             | 803,870,25x.x1 |
|      | STS/Package Set-Up Label Domestic         | 803,871,37x.x1 |
|      | Warning: Do Not Tilt                      | 803,868,29x.x1 |
|      | 134A Removable Substance                  | 903,833,54x.x1 |
|      | Money Removed Daily                       | 903,805,70x.x1 |
|      | Label, Warning Disconnect Main Power cord | 803,868,02x.x1 |
|      | Label, Main Power                         | 803,860,85x.x1 |
|      | Skid Removal                              | 903,828,70x.x1 |
|      | Coin Mechanism Label                      | 903,901,30x.x1 |
|      | Fuses F1-Amp, F2-6A                       | 803,843,91x.x1 |
|      | Fuse, 1.6 Amp                             | 804,800,71x.x1 |
|      | Label, 1.6 Amp Fuse                       | 803,868,03x.x1 |
|      | Mercury Notice Label                      | 803,860,59x.x1 |
|      | Notice - No Refund Label                  | 803,860,53x.x1 |
|      | Motor Cover Label, Power Disconnect       | 803,857,01x.x1 |
|      | Label, Coin Insert Generic                | 803,837,66x.x1 |
|      | Button & Stack Label                      | 803,871,37x.x1 |
|      | Label, Upper Refill Narrow Column         | 000249         |
|      | Label, Upper Refill Wide Column           | 000250         |
|      | Label, Lower Refill Narrow Column         | 000252         |
|      | Label, Lower Refill Wide Column           | 000253         |
|      | Kit, ID Number Labels -7 (1-7)            | 615,000,10x.x4 |
| 2    | Wiring Diagram Generic – 7 Select         | 803,871,48x.x1 |
| 3    | Installation & Set up Guide               | TBD            |
| 4    | Technical Manual                          | 803,903,79x.x1 |

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

| ITEM | DESCRIPTION        | DN552P         |
|------|--------------------|----------------|
| 1    | Side Decals Splash | 803,861,16x.x1 |
|      |                    |                |
| 2    | Sign, 7 Up Splash  | 805,034,04x.x1 |

SCREWS & NUTS

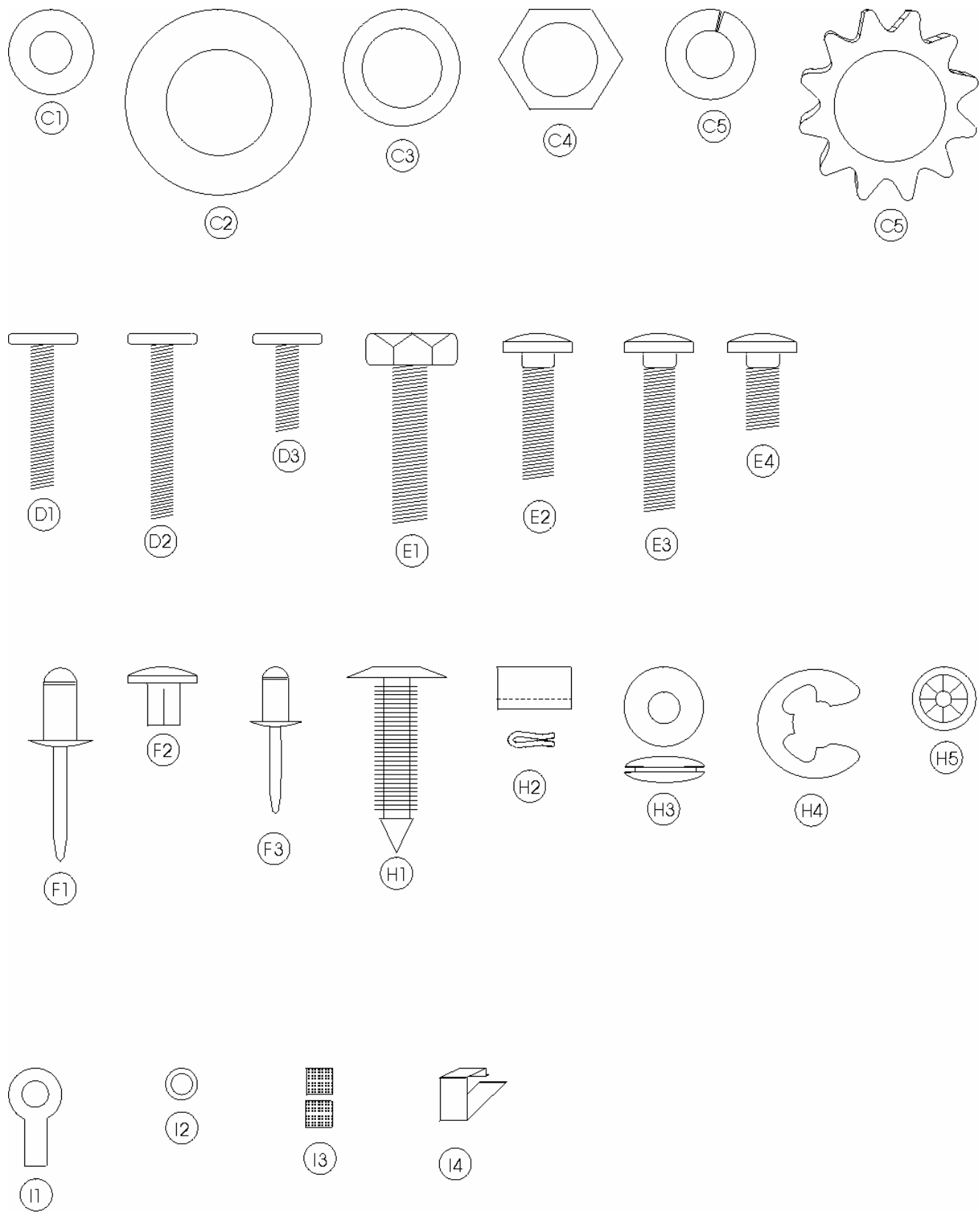




## SCREWS &amp; NUTS

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

WASHERS, BOLTS, & MISC. HARDWARE



**WASHERS, BOLTS, & MISC. HARDWARE**

| ITEM | PART NUMBER    | PART NAME AND DESCRIPTION                         |
|------|----------------|---------------------------------------------------|
| C1   | 900,700,60x.x1 | Washer, Delrin .047 Thick 3/8"IDx5/8"OD           |
| C2   | 901,303,77x.x1 | Washer, Door Hinge                                |
| C3   | 901,503,06x.x1 | Washer, Flat #2949 (T-Handle)                     |
| C4   | 901,503,08x.x1 | Washer, Hex #29-34 (T-Handle)                     |
| C5   | 900,700,36x.x1 | Lockwasher, Split 3/8"                            |
| C6   | 900,700,89x.x1 | Lockwasher, Shakeproof 5/8" (1132-00-00-0551)     |
| C7   | 900,700,02x.x1 | Steel Washer, 18 Gauge (1/2"x3/16")               |
| C8   | 900,700,62x.x1 | Washer, Shakeproof (4610-16-01-0551)              |
| C10  | 900,700,83x.x1 | Washer, Flat 18 Gauge (17/64"IDx5/8"OD)           |
| C11  | 900,700,08x.x1 | Washer, Flat 14 Gauge (5/16"-3/8"x7/8")           |
| C12  | 801,902,48x.x1 | Nylon Spacer                                      |
|      | 900,701,05x.x1 | Washer Flat (.343"ID x .688" OD .6T)              |
| D1   | 900,400,43x.x1 | T-Bolt, #8 - 32 x 1" (obsolete)                   |
| D2   | 900,400,41x.x1 | T-Bolt, #8 - 32 x 1 3/8"                          |
| D3   | 900,40x.x5x.x1 | T-Bolt, #8 - 32 x 3/4"                            |
| D4   | 900,400,45x.x1 | T-Bolt, #8 - 32 x 1/2"                            |
| E1   | 900,400,44x.x1 | Refrigeration Bolt, 3/8 - 16 x 1"                 |
| E2   | 900,201,17x.x1 | Carriage Bolt, 1/4 - 20 x 1"                      |
| E3   | 900,201,23x.x1 | Carriage Bolt, 1/4 - 20 x 1 1/4"                  |
| E4   | 900,201,45x.x1 | Carriage Bolt, 1/4 - 20 x 1/2"                    |
| E5   | 900,201,54x.x1 | Carriage Bolt, 1/4 - 20 x 3/8"                    |
| E6   | 900,201,56x.x1 | Carriage Bolt, 1/4 - 20 x 3/4"                    |
| E7   | 900,303,12x.x1 | Carriage Bolt, 1/4-20x5/8" (obsolete)             |
| E8   | 900,201,85x.x1 | Carriage Bolt, 5/16x18x1 1/4" Top Hinge (drop in) |
| E9   | 800,303,19x.x1 | Carriage Bolt, 1/4-20x5/8"                        |
| E10  | 900,202,04x.x1 | Carriage Bolt, 1/4-20x1/2" (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   | 901,100,61x.x1 | Pop Rivet, Steel (Zinc Plated) 1/8"               |
| F6   | 901,100,53x.x1 | Pop Rivet, Aluminum 1/8"                          |
| F7   | 901,100,60x.x1 | Pop Rivet, Steel (Zinc Plated) 3/16"              |
| H1   | 900,902,13x.x1 | Christmas Tree Clip #354280307-00 (NOT USED)      |
| H2   | 900,901,89x.x1 | Tinnerman Clip, Fan Shroud (C5207-014-3B)         |
| H3   | 900,401,09x.x1 | Grommet, Bk. Rubber #97                           |
| H4   | 901,503,07x.x1 | E-Ring #31-30                                     |
| H5   | 900,900,90x.x1 | Retainer, Roller Pin                              |
| H6   | 900,902,18x.x1 | Tinnerman Clip                                    |
| H7   | 801,807,01x.x1 | Hole Plug, Snap in - 1 1/4                        |
| H8   | 901,806,77x.x1 | Grommet, Admiral #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 Clamp                             |

**WASHERS, BOLTS, & MISC. HARDWARE**

| ITEM | PART NUMBER    | PART NAME AND DESCRIPTION                             |
|------|----------------|-------------------------------------------------------|
| I5   | 901,901,89x.x1 | Clamp, Cable 1" Heyco 3390                            |
| I6   | 900,901,79x.x1 | Clamp, Nylon 5/16" Black Heyco 3355 or Dennison 10159 |
| I7   | 900,901,80x.x1 | Clamp, Nylon 1/2" Heyco 3328                          |
| I8   | 901,901,06x.x1 | Hand Tie, x.x"                                        |
| 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, x.x"                                       |
| 13   | 900,902,14x.x1 | Canoe Clip #254-090-301-00-0108                       |