Technical Manual

Glassfront BevMax 3 Vender

Model DN5800
beginning production 8558BF-0001

Operation
Service
Parts
Troubleshooting
Manual

Manufactured by

CRANE
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VENDER SAFETY PRECAUTIONS

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

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

PRODUCT IDENTIFICATION

First production of Coca-Cola BevMax 3 Venders was June 2007. The production date of Dixie-Narco products is determined by the date code incorporated in the serial number.

The vender serial number takes the form xxxx-yyyy zz. The first 4 digits (xxxx) identify the specific vender. The next 4 digits (yyyy) identify the manufacturing run that the vender was built in. The last two alpha characters (zz) identify the quarter and the year the vender was built. The first alpha character identifies the quarter as follows:

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

The second alpha character identifies the year:

E = 2006	H = 2009
F = 2007	I = 2010
G = 2008	J = 2011

PHYSICAL CHARACTERISTICS

	DN5800
HEIGHT	72” (1828.8 mm)
WIDTH	47” (1193.8 mm)
DEPTH CABINET	32” (812.8 mm)
DEPTH WITH SERVICE DOOR	33.5” (850.9 mm)
BASE	4.5” (114.3 mm)
SHIPPING WEIGHT	764 lbs. (346kg)
Glass door is 37.5” (876.3 mm) wide, 67” (1701.8 mm) high	

RECEIVING INSPECTION

DO NOT STORE THE VENDER OUTSIDE.

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

UNPACKING THE VENDER

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

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

Remove the shipping boards from the bottom of the vender. The shipping boards are attached by the leveling legs. To avoid unnecessary damage to the leveling legs or base, remove the shipping boards by using a 1-1/2 inch socket type wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.

Once the vender is unpacked, check the recovery unit for any additional parts, price/ product labels, service/operation manual or other information concerning factory-equipped accessories such as coin mech and validator.

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

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

ELECTRICAL POWER NEEDED

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

POWER SUPPLY CORD and GROUNDING REQUIREMENTS

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

WARNING

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

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

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

- **DO NOT USE WITH AN EXTENSION CORD.**
- **DO NOT** REMOVE THE WARNING TAG ATTACHED TO THE POWER SUPPLY CORD.
- The GFCI must be tested frequently and before each use in accordance with the instructions provided on the GFCI device. **IF THE GFCI DOES NOT PASS THE TEST, DO NOT USE THE MACHINE**. Unplug the supply cord from the receptacle and call the Dixie-Narco Technical Support Group for assistance at 1-800-688-9090.

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

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

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

INSTALLATION AND SETUP INSTRUCTIONS

MANUAL LOCK

Open the service door on the right side using the key provided in the coin return cup, or if shipped with a locking clip, remove the clip and install the lock. Ensure there is no power to the AC Distribution Box. On venders with a main power switch on the AC Distribution Box the switch needs to be in the OFF position. On venders with a main power quick disconnect plug on the AC Distribution Box the quick disconnect plug needs to be unplugged. Check that all connectors are firmly seated on the control board and at the various components on the service door (coin mech, keypad, etc.).
Retrieve the main power plug from the hole in the rear of the vender and plug the cord in a properly grounded 120VAC, 15 Amp receptacle (U.S. and Canada).
Open the service door and apply power to the AC distribution Box (if equipped with a bill acceptor, the acceptor should cycle twice). The display on the door will briefly show the software version in use as "Software ###.## (ie ###.01) followed by the default idle message "ENJOY A REFRESHING DRINK", the fluorescent lamp should be lit and the cooling unit should start. If the display shows "OUT OF SERVICE", or the cooling unit fails to start, refer to the TROUBLESHOOTING SECTION beginning on page 32.

SERVICE NOTE

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

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

PLACING THE VENDER ON LOCATION

!! CAUTION !!

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

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

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

LEVEL THE VENDER

Adjust the front leveling legs, ensuring that an even gap exists between the glass door and the top security angle and receiver box, and then level the cabinet front to rear. A carpenter's level will help verify that the vender is level. Leveling legs are adjusted using a wrench or socket 1 ½" in size. If the vender is to be used in a bank of equipment, check the top and sides for proper alignment. If you are unable to properly level the vender, select an alternate location. NEVER PLACE OBJECTS UNDER THE LEVELING LEGS OF THE VENDER

DANGER

THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. IF THE MACHINE WILL BE SUBJECT TO USER MISUSE OR 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. Maintain a minimum of 4 inches (10 cm) from the wall to ensure adequate airflow to the condenser and compressor. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.

WARNING

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

INSTALLING PRICE LABELS

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

INSTALLING PRODUCT ID CARDS

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

COIN CHANGERS & OTHER ACCESSORIES

The vender can have an MDB coin changer installed and can have an MDB bill acceptor installed as well. Note: BevMax 3 will work with an MDB bill acceptor only. If the MDB coin changer and other MDB accessories are not factory installed, refer to the instructions received form the manufacturer of the MDB coin changer and other MDB accessories for proper set-up and installation.

The vender will support the following Domestic MDB coin changers:

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

The vender will support the following domestic MDB Bill validators:

Coinco BA-30 B, BA-50B Coinco Mag 50
Mars VN 2512 Conlux NBM-3000 Series

The vender will support MDB card readers.

SETTING THE TEMPERATURE CONTROL

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

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

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

LOADING THE VENDER

CAN/BOTTLE DRINK TRAYS

The BevMax 3 Vender does not require spacers or shims to vend most packages. Load product in each column one package at a time insuring that the package being loaded is in front of the product pusher. Insure that the package is stable within the column (doesn't move excessively from side to side). After loading the vender, test vend each column to insure proper operation. Please contact a Service Representative or refer to the proper Technical Publication for any special settings you may need.

LOADING CHANGE TUBES

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

1. Load the coin mechanism with coins to the desired level by inserting coins in the loading slots on the coin tube front.
   Minimum coin tube levels are:
   6-8 nickels
   7-8 dimes
   5-6 quarters
   Note: A low coin level in the coin tubes will interfere with operation of the bill validator.
2. For exact cash accountability and to insure maximum dollar bill acceptance, load the mechanism utilizing the coin insert slot on the front of the vender while in the coin tube fill/dispense mode in the test menu. (see page 12 in the programming section for more information)

(For additional information about coin mechanism, refer to the manufacturer's instructions.)

POWER AC DISTRIBUTION BOX

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

VENDING MACHINE CONTROLLER (VMC)

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

Keypad

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

DIGITAL DISPLAY

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

REFRIGERATION SYSTEM

The refrigeration system is a single piece unit and is hermetically sealed. In the EM2001 model consist of a ½ horsepower compressor, with a single fin and tube style condensing unit with one fan, the condensation overflow pan and the evaporator. The evaporator is located behind the panel on the back right side of the cooling compartment directly adjacent to the bottom shelf. The remainder of the unit is located behind the refrigeration unit cover panels, mounted in the bottom of the cabinet. This unit is designed for easy removal and replacement from the front of the vender as a complete assembly. An electronic thermostat regulates the cabinet temperature. The bulb of the thermostat is attached to the evaporator coils and reads the temperature of air being pulled in to the evaporator coil.

SHELF ASSEMBLY

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

DOUBLE GATE ASSEMBLY **(Can/Bottle Trays)**

The double gate assembly is mounted on the front portion of the tray assembly and contains the vending mechanism. Incorporated in the gate assembly are the front and rear knuckle assemblies as well as the product kicker. In standby operation, the front knuckle is in the blocking position, which holds the front displayed product in position to be vended. The rear

knuckle assembly is in a flat position, which allows product to enter the gate area, and the kicker is flush to the rear knuckle assembly. A stainless steel pin is inserted through the rear most portion of the front knuckle assembly and connects to a gear box below the tray. When a selection is made, the plunger pushes the lever toward the back of the tray. At the same time the front knuckle is opened into a flat position, the rear knuckle is closed to a blocking position, holding the remaining product out of the gate area, and the kicker is extended to firmly push the front displayed product off of the tray. The plunger is energized for approximately 1-½ seconds to allow ample time for the displayed product to be ejected from the shelf. The plunger is then released and the front knuckle returns to the blocking position, the rear knuckle and kicker return to their standby position and the next product slides into the vend display position.

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

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

MOTOR PICKER ASSEMBLY

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

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

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

Both X and Y motors have encoders for positioning.

COCA-COLA BevMax 3
PROGRAMMING METHOD

NORMAL MODE:
In normal mode, on power up display will show software installed in vender, then change to POS message or decimal point and / or vend price. When money is inserted, the display indicates the total amount of the deposit. The keys on the keypad are used to select the product. In normal mode you may access an external menu for reading historical sales counters, cash counters, error codes, No Error Codes, or return to normal mode.

SERVICE MODE:
If configuration switch 4 is set to "Config 4 0", when the door is opened, "No Error Codes" or a list of Error codes will show on the display. If configuration switch 4 is set to "Config 4 1", when the door is opened, "Cash Counters - ####-##.##", "Card Tot - ######.##", "Sales Counters - ####-####", " Error Codes", or "No Error Codes" will show on the display. NOTE: Card is only shown if a card reader is present. The service mode is entered when the door is open and the service switch on the controller is pressed. The operator can now use the keypad to move through the main routine menu.

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

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

EXTERNAL MENU MODE:
The information available in this mode is obtainable with the door closed or open as long as the vender is in normal mode, by entering the password which is set at 4, 2, 3, 1. Note: 4231 is the factory default and can be programmed to any four digit combination. Information available is historical cash counted, interval cash counted for each selection, historical sale (total number of vends), interval vends counted for each selection, error codes, and return. Refer to the "Cash Counters", "Sales Counters", and "Error Codes" routines for instructions to move through the menus.

PROGRAMMING MENU

"Error Codes" - ERROR ROUTINE
This function allows you to enter the error readout routine. "Error Codes" will appear when you press the service button on the control board. Press key number 4, if there have been no Error Codes since the last reset, the display will read "No Error Codes". If one or more Error Codes have occurred, the display will show the first error code that occurred.

The following are error codes that may be displayed and detailed information accessed: "No Errors", "Vend Mechanism", "Control System", "Selection Switch", "Changer", "Bill Validator", "Card Reader", "Remote Vend Mech", "Selection/Display", "Refrigeration", "Health Timer".

Press key number 2 or 3 to scroll through any error codes that are present.

Important: If there is only one problem, it will be the only error code shown when you enter the error code submenus.

With an error code showing on the display, press key number 4 to access detailed information.
After making repairs with an error code showing on the display, press and hold key number 4 for 2 seconds will clear the error.
Press key number 1 to return to "Error Codes".

"Vend Mechanism" - Vend Mechanism Summary Error Codes
Press key number 4 and the display will show the following:

- "Port Open", port door switch not being seen.
- "XY", home switch for X or Y is not being seen.
- "Encoder", encoder not being seen.
- "Picker", picker home switch or picker out switch not being seen.

Press key number 1 will return to "Vend Mechanism" if all vend mech Error Codes have not been cleared. If all vend mech Error Codes have been cleared the next error mode will be displayed, or "No Error Codes" if there are no Error Codes. Press key number 1 will return to "Error Codes".

"Control System" - Control System Summary Error Codes

Press key number 4 and the display will show one of the following:

- "Door Switch", indicating a door switch in the open position for more than 1 hour.
- "RAM Checksum", indicating the check sum for service mode settings memory has been corrupted.
- "AC Supply Low", indicating AC supply to the machine has fallen more than 15% below normal line voltage for more than 30 seconds.
- "Scale Factor", indicating a peripheral has introduced a scaling factor that is incompatible with current setting.

Press key number 1 will return to "Control System" if all control system Error Codes have not been cleared. If all control system Error Codes have been cleared the next error code will be displayed, or "No Error Codes" if there are no Error Codes. Press key number 1 will return to "Error Codes".

"Selection Switch" - Select Switch Summary Error Codes

Press key number 4 and the display will show "Selection SW #", indicating a key on the keypad has been active for more than 15 seconds while in normal (sales) mode.

Press key number 1 will return to "Selection Switch" if all selection Error Codes have not been cleared.
If all selection Error Codes have been cleared the next error code will be displayed or "No Error Codes" if there are no Error Codes.
Press key number 1 will return to "Error Codes".

"CHANGER" - Changer Summary Error Codes

Press key number 4 and the display will show one of the following:

- "Changer Comm", indicating a changer communication error (No communication for more than 2 seconds).
- "Tube Sense", indicating a tube sensor error.
- "Changer Inlet", indicating an inlet chute blocked error (no coins sensed in acceptor for 96 hours). - "Tube Jam #", indicating a tube jam error.
- "Changer ROM", indicating a changer ROM check sum error (failed changer).
- "Excessive Escrow", indicating excessive escrow attempts (more than 255 since last coin sensed). - "Coin Jam", indicating a coin jam reported by coin mech.
- "Low Acceptance", indicating a low coin acceptance rate (less than 80%). - "Acceptor Disconnected", indicating an acceptor is unplugged.
- "Coin Routing Err", indicating a coin was mis-routed.

Press key number 1 will return to "CHANGER" if all changer Error Codes have not been cleared.
If all changer Error Codes have been cleared the next error code will be displayed or "No Error Codes" if there are no Error Codes.
Press key number 1 will return to "Error Codes".

"Bill Validator" - Bill Validator Summary Error Codes

Press key number 4 and the display will show one of the following:

- "Bill Val Comm" indicating a bill validator communication error (No communication for more than 5 seconds).
- "Bill Stack Full" indicating the bill stacker is full.
- "Bill Motor Error" indicating a defective motor in the validator.
- "Bill Jam " indicating a bill jam in the validator.
- "Bill Val ROM" indicating a check sum error.
- "Bill Stack Open" indicating an open stacker.
- "Bill Sense Err" indicating a bill validator sensor error.

Press key number 1 will return to "Bill Validator" if all changer Error Codes have not been cleared.
If all validator Error Codes have been cleared the next error code will be displayed or "No Error Codes" if there are no Error Codes.
Press key number 1 will return to "Error Codes".

"Card Reader" - Card Reader Summary Error Codes

Press key number 4 and the display will show one of the following:

- "Card Reader Comm", indicating no card reader communication for 5 seconds.
- "Card Reader #", indicating the most recent "non-transient error" from the card reader (failed card reader).

Press key number 1 will return to "Card Reader" if all changer Error have not been cleared. If all card reader Error Codes have been cleared the next error code will be displayed or "No Error Codes" if there are no Error Codes. Press key number 1 will return to "Error Codes". Press key number 2 will scroll to the next routine.

"Remote Vend Mech" - Remote Vend Mechanism (USD) Error.

Press key number 4 and the display shows one of the following.

- "Remote Vend Comm #", indicates no communication for 5 seconds with remote vend mech at address "#".

- "Remote Vend #", indicates error code number "#" from the remote vend mech at address "a".

Press key number 1 will return to "Remote Vend Mech" if all remote vend mechanism No Error Codes have not been cleared.
If all remote vend mechanism Error Codes have been cleared the next error code will be displayed, or "No Error Codes" if there are no Error Codes.
Press key number 1 will return to "Error Codes".
Press key number 2 will scroll to the next routine.

"Select/Display" - Selection / Display Device (ASD) Error

Press key number 4 and the display shows:

- "Select/Display Comm", indicating no communication to selection / display device for five seconds.

Press key number 1 will return to "Select/Display" if all selection / display device Error Codes have not been cleared. If all selection / display device error have been cleared the next error code will be displayed or "No Error Codes" if there are no Error Codes.
Press key number 1 will return to "Error Codes".
Press key number 2 will scroll to the next routine.

"Refrigeration" - Refrigeration Summary Error Codes

Press key number 4 and the display shows one of the following:

- "Temp Sense Err", indicating the temperature sensor is defective or unplugged.
- "Temp Too Cold", indicating the cabinet temperature is 3^0 F below lower limit.
- "Temp Too Hot", indicating the cabinet temperature is 3^0 F above upper limit.
- "Not Cooling", indicating the cooling system has failed to decrease temperature 1^0 F per hour while the compressor is running.

Press key number 1 will return to "Refrigeration" if all refrigeration summary errors have not been cleared. If all refrigeration summary Error Codes have been cleared the next error code will be displayed, or "No Error Codes" if there are no Error Codes. Press key number 1 will return to "Error Codes". Press key number 2 will scroll to the next routine.

"Health Timer" – HEALTH TIMER CONSTRAINT ERROR CODES

Press key number 4 and the display shows one of the following.
- "Health Timer" – Health Timer Error
The initial pull down time has not met the health timer constraints. Refer to "Health Timer" section for details. Press and hold key number 4 for 2 seconds will clear the error and the display will show "No Error Codes".
- "Health Code" – Health Code Error
The health code cooling constraints have not been met. Refer to "Health Timer" section for details. Press and hold key number 4 for 2 seconds will clear the error and the display will show "No Error Codes".
- "Recheck Failed" – Recheck Error
The extended health timer has not met the health timer constraints. Refer to "Health Timer" section for details. Press and hold key number 4 for 2 seconds will clear the error and the display will show "No Error Codes".

"Coin Pay Out" - COIN PAYOUT ROUTINE

This function allows you to dump coins from the coin mechanism. Note: If a coin mech is not installed, you will not be able to enter the program to display information.
Press key number 4 to enter mode and the lowest coin value dispensable will show on the display. Press key number 2 or 3 to scroll through the different coin values available. Press and hold key number 4 to dump the coins whose value is shown on the display.

Press key number 1 will return to "Coin Pay Out".
Press key number 2 to scroll to the next routine.

"Tube Fill" - TUBE FILL ROUTINE

This function allows you to count the coins loaded in the top (separator) of the coin mech that will be routed to an inventory tube. Note: If a coin mech is not installed, you will not be able to enter the program to display information.
Press key number 4 to enter mode and the total number of the coin type being loaded will be displayed and counted in the vender controller as they are accepted. The controller will inhibit the acceptance of any coin which does not go to a tube
during this procedure. If a tube full status is detected, that coin type will be inhibited. When you finish loading all coins:
Press key number 1 to return to "Tube Fill". Press key number 2 to scroll to the next routine.

"Test Modes" - TEST ROUTINE

This function allows you to diagnose different functions of the vender. Press key number 4 and the display will show "Test vend". For additional Dixie-Narco Factory Diagnostics refer to page ###.

Press key number 2 or 3 to scroll through the test routines available. Press key number 1 to return to "Test Modes".

"Test Vend" - Vend Testing

This function allows you to test vend each column. Press key number 4 and the display will show "Column A1". Press key numbers 2 or 3 to scroll through the columns available to run in motor test. Press and hold the Power Interrupt (PI) switch. Press key number 4 to

vend from the column displayed. Press key number 1 will return to "Test Vend". Press key number 2 to scroll to next test mode.

"Test Sel Switch" - Select Switch Test
This function allows you to test each selection. Press key number 4 and the display will show "Selection 4". Then press any key and the display will show the last key number pressed. Press and hold key number 1 for approximately 5 seconds will return to "Test Sel Switch". Press key number 2 to scroll to the next test mode.

"Test Display" - Display Test
This function allows you to test all segments in the display. Press key number 4 and rows of letter A will display, then turn off , then rows of the letters A, C, E, G , I K, M will display alternatly until key number 1 has been pressed. Press key number 1 to return to "Test Display". Press key number 2 to scroll to next test mode.

"Test Relays" - RELAY TEST
This function allows you to test the relay electronic control of the compressor ("Compressor #"), the evaporator fan(s) ("Fan #"), and the sign front light ("Light#").

CAUTION: Disconnect power to the compressor before testing the compressor relay. Failure to disconnect power to the compressor before testing the relay could result in damaging the compressor.

Press key number 4 and the display will show "Compressor #", where # is the state of the relay - 0 = not activated or off; 1 = activated or on. Press key number 4 to toggle the relay on and off. Press key number 2 to scroll to "Fan #", where # is the state of the relay - 0 = not activated or off, 1 = activated or on. Press key number 4 to toggle the fan(s) on and off. Press key number 2 to scroll to "Light #", where # is the state of the relay - 0 = not activated or off; 1 = activated or on. Press key number 4 to toggle the lights on and off. Press key number 1 to return to "Test Modes".
Press key number 2 to scroll to "Password Entry".

*** "Password Entry" - PASSWORD ROUTINE**
This function allows you to enter the following routines which are not accessible until the operator enters a password, which is set as 4-2-3-1. To enter the password, press key number 4 until the display goes blank. Then press key number 2, then 3, then 1, and then 4, and "Cash Counter" should appear on the display. If not entered properly, the display will return to "Password Entry" after approximately 16 seconds. If entered correctly, the display will go to the next function "Cash".

*** "Cash Counters" - CASH COUNTER ROUTINE**
This function will show the user the vender historical total cash counted and the interval cash counted for each selection for the vender.
Press key number 4 and "Cash Tot"/"#######.##" will show on the display where the 8"#" characters are the historical total cash counters that have been recorded. Note: Leading zeros are not displayed. Example: Display flashes "Cash Tot", then "262500". This is $2625.00 historical total cash. Press key number 2 to scroll to "Card Tot"/"#######.##", where the 8# characters are the historical card reader cash counters. Note: Leading zeros are not displayed.
Press key number 2 or 3 to display "Cash Sel A1"/"#######.##" where the 8"#" characters are the interval cash counters for that selection. Note: Leading zeros are not displayed. Pressing key number 2 or 3 at this time will scroll through the available selection cash counters. Example: Display flashes "Cash Sel A1", then "520.50". This is $520.50 interval cash for selection A1. Press key number 1 to return to "Cash Tot"/"#######.##". Press key number 1 to return to "Cash Counters".
Press key number 2 to scroll to the next routine.

*** "Sales Counters" - SALES COUNTER ROUTINE**
This function will show the user the vender historical total number of vends and the interval vends counted for each selection for the vender.

Press key number 4 and "Sales Tot"/"########" will show on the display where the 8"#" characters are the historical total vend counters that have been recorded. Note: Leading zeros are not displayed. Example: Display flashes "Sales Tot", then "1325". This is 1325 historical vends.
Press key number 2 or 3 to display "Sales Sel A2"/"########", where the 8"#" characters are the interval vend counters for that selection. Note: Leading zeros are not displayed. Pressing key number 2 or 3 at this time will scroll through the available selection vend counters. Example: Display flashes "Sales Sel A1" then "145". This is 145 interval vends counted for selection A1. Pressing key number 1 will return to "Sales Tot"/"########". Press key number 1 to return to "Sales Counter".

Press key number 2 to scroll to the next routine.

*** "Price Program" - PRICE SETTING ROUTINE**

This function allows the user to set pricing. When Configuration Code 1 is programmed to "Config 1 1", multi-pricing a price for each selection needs to be set. Note: This routine is lockable when using a data collection device.

Press key number 4 and "All Selections" (multiprice) or "Single Price" (single price) will show on the display. Press key number 4 to set the price on selection A1, "00.00" or current price setting will show on the display. Press key number 2 or 3 to change the price setting for selection A1.
Press key number 4 to enter the price selected and the display will return to "Price Sel A1".
Press key number 2 to scroll to the next selection you wish to set price. Press key number 4, set the price and enter the price. Repeat these steps for each selection until all prices are set. Note: In multiprice modes, selections go "Price Sel A1" through "All Selections".

If Configuration Code 1 is programmed to "Config 1 O", single price, set "Single Price" as described above. The price entered for "Single Price" will be set for all selections. Factory default setting is "Single Price".
Press key number 1 to return to "Price Program".
Press key number 2 to scroll to the next routine.

"StS Programming" – SPACE TO SALES ROUTINE

This function allows you to change the space to sale settings. Press key number 4 and "Option #" or "Custom StS" will show on the display, which indicates the current space to sales option. For the 7 options available, see list below. Press key number 2 to scroll through the options. Press key number 4 with the desired option showing on the display to save that option and return to "StS Programming".

Space to Sales Options:

"Custom StS"	Custom space to sales = Allows you to assign columns in blocks working with associated selections.
"Option 1"	1 to 1 = Columns are assigned to selections with the same number.

The following options in red are not available at this time and should not be used.

"Option 2"	Tray = Full tray assigned. Example: selections A1 thru A9 vend from columns A1 thru A9 sequentially.
"Option 3"	Half Tray = Half tray assigned. Example: selections A1 thru A5 vend from columns A1 thru A5 sequentially and selections A6 thru A9 vend from columns A6 thru A9 sequentially.
"Option 4"	Groups of 3 = Groups of 3 columns are assigned sequentially to work with associated selections. Example: selections A1 thru A3 vend from columns A1 thru A3 sequentially.
"Option 5"	Combined groups of 2 & 3 = Selection grouping per tray will be assigned columns 1 & 2; 3 & 4; 5 & 6; 7, 8, & 9 working with associated selections.
"Option 6"	Combined groups of 3 = Selection grouping per tray will be assigned columns 1, 2, & 3; 4, 5, & 6; 7, 8, & 9 working with associated selections.

With "Custom StS" showing, press key number 4 and "Clear Settings?" will show on display. Press key number 4 will clear the current space to sale settings. Press key number 1 will return to "Custom StS". Press key number 4 will show "Selection A1" alternating with columns assigned to blocks. Press key number 4 will show "First A1" or the individual selection to start a block.
Press key number 2 to scroll to "First E9" or the largest selection available.
Press key number 4 will show "Last A1" or the last column for custom space to sales blocks.
Press key number 2 will show "Last A1" or the largest column for custom space to sales blocks available. Press key number 4 will show "Save Setting?"
Press key number 4 will save the new settings.

IMPORTANT: Selection to Column assignments are only for each Tray. Example: Selection A1 can only be tied to columns on the A Tray.

*** "Config Switches" - MACHINE CONFIGURATION**

This function allows the user to access and change the programming of the following machine configuration settings. Note: This routine is lockable when using a data collection device. If you press key number 4 and the display shows "Locked Menu", this means configuration setting changes will not be allowed. If "Config 1" is displayed, then configuration setting

changes will be allowed. “Locked Menu” can only be enabled or disabled through DEX interrogation. If “Config 1” is displayed, the listed settings are available. Note: You must press key number 4 with the configuration code displayed if you wish to enter the edit mode. The “0” or “1” will be flashing to acknowledge you are in the edit mode.

IMPORTANT: All machine configuration codes are disabled coming from the factory (Config # 0).

Config 1 - Configuration Switch 1 - Multi-Price Setting Mode

This code is used to enable the single price mode “Config 1 0” or multi-price mode “Config 1 1”. Press key number 4 and “Config 1 #” will be displayed, with the “#” flashing. Press key numbers 2 or 3 to scroll between “Config 1 0” and “Config 1 1”. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 1”. Press key number 2 to scroll to “Config 2”.

Config 2 - Configuration Switch 2 - Optional Features Enable

This code is used to allow (Config 2 1) the following optional features to be displayed and enabled: “Lighting Control”, “Select Discount”, “Over-ride Switch”, “Select Block 1”, and “Select Block 2”. Press key number 4 and “Config 2 #” will be displayed with the # flashing. Press key numbers 2 or 3 to scroll between “Config 2 0” and “Config 2 1”. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 2”. Press key number 2 to scroll to “Config 3”.

Config 3 - Configuration Switch 3 - POS Message

This code is used to disable the point of sale message. Config 3 0 = enabled, Config 3 1 = disabled. Press key number 4 and “Config 3 #” will be displayed, with the “#” flashing. Press key numbers 2 or 3 to scroll between “Config 3 0” and “Config 3 1”. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 3”. Press key number 2 to scroll to “Config 4”.

Config 4 - Configuration Switch 4 - Automatic Viewing of Historical Sales and Cash Accounting, Error Codes or No Error Codes

This code is used to enable viewing of historical sales, historical cash, Error Codes or No Errors automatically when the door is opened. To enable automatic viewing option enter “Config 1”; to disable enter “Config 4 At “Config 4 0” Error Codes or No Errors automatically displays when the door is open. Press key number 4 and “Config 4 #” will be displayed, with the “#” flashing. Press key number 2 or 3 to scroll between “Config 4 0” and “Config 4 1”. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 4”. Press key number 2 to scroll to “Config 5”.

Config 5 - Configuration Switch 5 – Door Switch Reset Status

This code is used to reset all interval data when the door switch is cycled and at least one data register is read via the display when set at “Config 5 1” or to reset all interval data only when the “RESET” command is received via handheld or portable computer when set at “Config 5 0”. Press key number 4 and “Config 5 #” will be displayed, with the “#” flashing. Press key numbers 2 or 3 to scroll between “Config 5 0” and “Config 5 1”. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 5”. Press key number 2 to scroll to “Config 6”.

Config 6 - Configuration Switch 6 - Reserved

This code is reserved for future use. Press key number 2 to scroll to “Config 7”.

Config 7 - Configuration Switch 7 - Save Credit

This code is used to determine how long a credit will be saved.
C7 0 will save the credit for five minutes.
Config 7 1 will save the credit indefinitely.
Press key number 4 and “Config 7 #” will be displayed, with the “#” flashing. Press key number 2 or 3 to scroll between Config 7 0 and Config 7 1. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to “Config 7”. Press key number 2 to scroll to “Config 8”.

Config 8 - Configuration Switch 8 - Force Vend

This code is used to determine escrow to select or escrow to price.
Config 8 0 will set vender to escrow to select and Config 8 1 will set vender to escrow to price. Press key number 4 and “Config 8 #” will be displayed, with the “#” flashing. Press key number 2 or 3 to scroll between

Config 8 0 and Config 8 1. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to "Config 8". Press key number 2 to scroll to "Config 9".

Config 9 - Configuration Switch 9 - Multi Vend

This code is used to allow multiple vends without re-depositing funds.

Config 9 0 will not allow multiple vends and Config 9 1 will allow multiple vends. Press key number 4 and "Config 9 #" will be displayed, with the "#" flashing. Press key number 2 or 3 to scroll between Config 9 0 and Config 9 1. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to "Config 9". Press key number 2 to scroll to "Config 10".

Config 10 - Configuration Switch 10 - Bill Escrow Inhibit

This code is used to allow last bill that meets or exceeds maximum vend price to be held in escrow.

Config 10 0 will escrow bill and Config 10 1 will not escrow bill (or stack the bill). Press key number 4 and "Config 10 #" will be displayed, with the "#" flashing. Press key number 2 or 3 to scroll between Config 10 0 and Config 10 1. Press key number 4 with the display flashing the setting you wish to use. Press key number 1 to return to "Config 1 0". Press key number 2 to scroll to the next configuration code. Press key number 1 to return to "Config Switches". Press key number 2 will scroll to next routine.

***"Correct Change" - CORRECT CHANGE ONLY CONTROL ROUTINE**

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

Press key number 4 will enter "ConsumerOverpay#".

"ConsumerOverpay #" - Allow Consumer Overpay

This function allows the vender to vend with the risk of not being able to return the full amount of change. This function has to be turned on to be able to allow consumer overpay. Press key number 4 and display will show "ConsumerOverpay #", where "#" is flashing. "ConsumerOverpay1" will allow consumer overpay (customer could potentially be shortchanged) and "ConsumerOverpay0" will not allow consumer overpay (will not allow customer to be shortchanged). Press key number 2 or 3 to scroll between " ConsumerOverpay0" and "ConsumerOverpay1". Press key number 4 with the display blinking the setting you wish to use. Display will return to "ConsumerOverpay#". Press key number 2 to scroll to "Corr Chg value".

"Corr Chg Value" - Correct Change Value

This is the function that the control board will use to set a value which will turn on the correct change indicator. Note: If "Uncond Accept" is set, the "Corr Chg Value" should be equal to or less than the "Uncond Accept". Note: If the value set is 00.00, the correct change indicator will never come on.

If the controller determines that it cannot return the exact amount of the correct change value or any value less than it, then the indicator will be turned on.

Press key number 4 and the display will show "##.##'.

Press key number 2 or 3 to scroll from 00.00 to 99.99.

Press key number 4 with the display showing the value you wish to use. Display will return to "Corr Chg Value"

Press key number 2 to scroll to "Uncond Accept".

"Uncond Accept" - Unconditional Acceptance Value

This is the function that the control board will use to set the largest value of any single form or currency (coin or bill) that can be accepted without having enough change to pay back the full amount. Press key number 4 and the display will show "##.##". Press key number 2 or 3 to scroll from 00.00 to 99.95. Press key number 4 with the display showing the value you wish to use. Display will return to "Uncond Accept". Press key number 1 to return to "CorrectChange". Press key number 2 to scroll to next routine.

***"Preview Password" - PREVIEW DATA PASSWORD ROUTINE**

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

To change "Preview Password" password:

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

***"Language Select" - LANGUAGE ROUTINE**
This function is used to set the language that will be used for display messages. Note: This does not change the menu prompts.
Press key number 4 and the display will show the language currently set in the controller. Press key number 2 or 3 to scroll through the languages available.

English	Italian	Slovene
French	Portuguese	Finnish
German	Spanish	Norwegian

With the language you wish to enter showing on the display, press key number 4. The display will return to "Language Select".
Press key number 2 to scroll to next routine.

***"Time Programming" – TIME AND DATE ROUTINE**
This function is used to set the year, month, date, and hour (military 24 hour clock). Press key number 4 and "Enable #" will show on display.

"Enable #" - Time and Date Enable Routine
Press key number 4 and Enable 0 = disabled or Enable1 = enabled will show on display. Press key number 2 to scroll between Enable 0 and Enable 1. Press key number 4 with the display showing the setting you wish to use and display will return to "Enable #". Press key number 2 to scroll to "Year".

"Year" - Year Setting (00 to 99)
Press key number 4 and the current year setting will show on display. Press key number 2 or 3 to change the last 2 digits of the year (00 to 99). Press key number 4 with the display showing the year you wish to use and display will return to "Year". Press key number 2 to scroll to "Month".

"Month" - Month Setting (01 to 12)
Press key number 4 and the current 2 digit month setting will show on display. Press key number 2 or 3 to change the month (01 to 12). Press key number 4 with the display showing the month you wish to use and display will return to "Month".
Press key number 2 to scroll to "Day".

"Date" - Day of Month Setting (1 to 31)
Press key number 4 and the current 2 digit day of month setting will show on display. Press key number 2 or 3 to change the day of month (1 to 31).
Press key number 4 with the display showing the day you wish to use and display will return to "Day". Press key number 2 to scroll to "Hour".

"Hour" - Hour and Minute Setting (0000 to 2359)
Press key number 4 and the current 4 digit hour and minute setting will be displayed (24 hour). The hour setting will be blinking to indicate it can be changed. Press key number 2 or 3 to change the hour setting. Press key number 4 to save and the minute setting will start blinking to indicate it can be changed. Press key number 2 or 3 to change the minute setting. Press key number 4 will save and return display to "Hour".
Press key number 2 to scroll to "Daylight Savings".

"Daylight Savings" - Daylight Saving Time Setting
This function is used to set the preferred daylight savings time setting. Press key number 4 will display the current setting. Press key number 2 or 3 to scroll through the "Daylight savings" options listed:

- "OFF", no daylight savings time changes made.
- "Australia", 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.
- "Europe", 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.
- "North America", North American rules - Set forward 1 hour at 2:00 am on the second Sunday in March; Set backward 1 hour at 2:00 am on the first Sunday in November.

Press key number 4 with the display showing the setting you wish to use and display will return to "Daylight Savings". Press key number 1 to return

to "Time Programming". Press key number 2 to scroll to next routine.

***"Lighting Control" - LIGHTING CONSERVATION CONTROL ROUTINE (Config 2 Must Be Enabled – Config 2 1)**

This function is used to turn the lights off and on during certain periods of the day. Press key number 4 will enter "Enable #".

"Enable #" - Lighting Conservation Control Enable Routine

This function is used to disable Lighting Conservation Control "Enable 0" (lights will be on at all times) or enable Lighting Conservation Control "Enable 1" (lights can be set to turn off). Press key number 4 and the current "Enable #" setting will be displayed. Press key number 2 or 3 to scroll between "Enable 0" and "Enable 1". Press key number 4 with the display showing the setting you wish to use. Press key number 2 to scroll to "Start Time".

"Start Time" - Start Lighting Conservation Setting (lights off)

This function is used to set the days and time to start light conservation when "Enable 1" is selected. Press key number 4 and "Start Day" will show on the display.

"Start Day" - Day to Start Setting

This function is used to set the days of the week to start light conservation.

Press key number 4 and "XXXXXX#" will show on the display, where XXXXXX will be the day of the week (i.e. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Every day) and # is 0 = disable, 1 = enable. With the display showing the day you wish to set press key number 4. The # will start blinking. Press key number 2 or 3 to scroll between "XXXXXX0" and "XXXXXX1". Press key number 4 with the display showing the setting you wish to use. Display will return to "XXXXXX#".

Press key number 2 to scroll to the next day to set or press key number 1 to return to "Start Day". Press key number 2 to scroll to "Start Hour".

"Start Hour" - Start Hour and Minute Setting

This function is used to set the hours to start light conservation (lamps off).

Press key number 4 and "hhmm" will show on the display, where "hh" is the hour (military time) and "mm" is the minute. "hh" will be blinking, indicating the hour setting may be changed. Press key number 2 to scroll from 00 to 23. With the display showing the hour you wish to start light conservation, press key number 4. "mm" will start blinking, indicating the minute setting may be changed. Press key number 2 to scroll from 00 to 59. With the display showing the minute you wish to start light conservation, press key number 4. The display will return to "Start Hour". Press key number 1 to return to "Start Time".
Press key number 2 to scroll to "Stop Time".

"Stop Time" - Stop Light Conservation Setting (lights on)

This function is used to set the days and time to stop light conservation. Press key number 4 and "Stop Day" will show on the display.

"Stop Day" - Day To Stop Setting

This function is used to set the days of the week to stop light conservation and can be set in the same manner as Day to Start Setting.

"Stop Hour" - Stop Hour and Minute Setting

This function is used to set the hours and minutes to stop light conservation and can be set in the same manner as Start Hour and Minute Setting. Press key number 1 to return to "Stop Time". Press key number 1 to return to "Lighting Control". Press key number 2 to scroll to next routine.

***"Refrigeration " - REFRIGERATION ROUTINE**

This function is used to electronically control the refrigeration operations of the vender. Press key number 4 will enter "Enable #".

"Enable #" - Energy Conservation Enable Routine

This function is used to disable Energy Conservation "Enable 0" or enable Energy Conservation "Enable 1". When enabled the cabinet temperature will be allowed to rise to the programmed storage level ("Storage") during the following programmed time blocks. Press key number 4 and the current "Enable X" setting will be displayed. Press key number 2 or 3 to scroll between "Enable 0" and "Enable 1". Press key number 4 with the display showing the setting you wish to use. Press key number 2 to scroll to "Start Time".

"Start Time" - Start Energy Conservation

This function is used to set the days and time to start Energy Conservation when "Enable 1" is selected. Press key number 4 and "Start Day" will show on the display.

"Start Day" - Day to Start Setting

This function is used to set the days of the week to start Energy Conservation.

Press key number 4 and "XXXXXX#: will show on the display, where XXXXXX will be the day of the week (i.e. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Every day) and # is 0 = disable, 1 = enable. With the display showing the day you wish to set press key number 4. The # will start blinking. Press key number 2 or 3 to scroll between "XXXXXX0" and "XXXXXX1". Press key number 4 with the display showing the setting you wish to use. Display will return to "XXXXXX#". Press key number 2 to scroll to the next day to set or press key number 1 to return to "Start Day".

Press key number 2 to scroll to "Start Hour".

"Start Hour" - Start Hour and Minute Setting

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

Press key number 4 and "hhmm" will show on the display, where "hh" is the hour (military time) and "mm" is the minute. "hh" will be you wish to start Energy Conservation, press key number 4. The display will return to "Start Hour". Press key number 1 to return to "Start Time".

Press key number 2 to scroll to "Stop Day".

"Stop Time" - Stop Energy Conservation

This function is used to set the days and time to stop energy conservation when "Enable 1" is selected. Press key number 4 and "Stop Day" will show on the display.

"Stop Day" - Day to Stop Setting

This function is used to set the days of the week to stop energy conservation and can be set in the same manner as "Start Day" and "Start Hour".

"Stop Hour" - Stop Hour and Minute Settings

This function is used to set the hours and minutes to stop energy conservation and can be set in the same manner as "Start hour".

Press key number 1 to return to "Stop Time".

Press key number 2 to scroll to "Degrees".

"Degrees" - Degree Fahrenheit / Celsius Setting Routine

This function is used to set the degree reading to Fahrenheit (Degrees F) or Celsius (Degrees C). Press key number 4 and "Degrees X", where the current setting (X) will be blinking. Press key number 2 or 3 to scroll between Degrees F and Degrees C. Press key number 4 with the display blinking the setting you wish to use.

Press key number 1 to return to "Degrees".

Press key number 2 to scroll to "Setpoint".

"Setpoint" - Set Point Control Routine (Default Temperature 35.0^0 F)

This function is used to set the average product temperature for initial pull down and reload recovery. Press key number 4 and "tt.tx" will show on the display where x is F (Fahrenheit) or C (Celsius) and tt.t is the degrees.

Press key number 2 to increase or 3 to decrease the number by 1^0 F or 0.5^0 C. With the display showing the set point temperature you wish to use, press key number 4.

Press key number 2 to scroll to "Storage".

"Storage" - Storage Setting Routine (Default Temperature 60.0^0 F / 15.5^0 C)

This function is used to set the temperature for product storage and is used when Energy Conservation is enabled.

Press key number 4 and "tt.tx" will show on display when X is F (Fahrenheit) or C (Celsius) and tt.t is the degrees.

Press key number 2 to increase and 3 to decrease the number by 1^0 F or 0.5^0 C. With the display showing the storage setting you wish to use, press key number 4.

Press key number 2 to scroll to "Display X".

"Display " - POS Temperature Display Enable Routine

This function is used to enable the POS Temperature to be displayed following the "Ice Cold COCA-COLA" POS message.

Press key number 4 and " Display X" will show on the display where x is the current setting. With "X" blinking, press key number 2 or 3 to scroll between "Display 0" disabled or not displayed and " Display 1" enabled or displayed. With the display showing the setting you wish to use, press key number 4.

Press key number 1 to return to "Refrigeration".

Press key number 2 to scroll to next routine.

***"Select Block 1" - BLOCK SELECTION BANK 1 ROUTINE (Config 2 must be enabled – Config 2 1)**

This function is used to set selections which will be blocked during certain periods of the day. Press key number 4 will enter "Enable X".

"Enable X" - Blocking Enable Routine

This function is used to disable blocking "Enable 0" or enable blocking "Enable 1".

When enabled, active selections will not be allowed to vend on the days and times programmed. Press key number 4 and the

current “Enable” setting will be displayed. Press key number 2 or 3 to scroll between “Enable 0” and “Enable 1”. Press key number 4 with the display blinking the setting you wish to use. Display will return to “Enable X”.
Press key number 2 to scroll to “Start Time”.

“Start Time” - Start Selection Blocking Routine
This function is used to set the day(s) and time to start selection blocking. Press key number 4 and “Start Day” will show on the display.

“Start Day” - Day of Week Start Setting
This function is used to set the day(s) of the week to start selection blocking.
Press key number 4 and “XXXXXX#” will show on the display, where XXXXXX will be the day of the week (i.e. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Every day) and # is 0 = disable, 1 = enable.
With the display showing the day you wish to set press key number 4.
The # will start blinking. Press key number 2 or 3 to scroll between “XXXXXX0” and “XXXXXX1.”
Press key number 4 with the display showing the setting you wish to use. Display will return to “XXXXXX#’.
Press key number 2 to scroll to the next day to set or press key number 1 to return to “Start Day”.
Press key number 2 to scroll to “Start Hour”.

“Start Hour” - Start Hour and Minute Setting
This function is used to set the hours and minutes to start selection blocking.
Press key number 4 and “hhmm” will show on the display, where hh is the hour (military time) and mm is the minute. “hh” will be blinking, indicating the hour setting may be changed. Press key number 2 to scroll from 00 to 23. With the display showing the hour you wish to start selection blocking, press key number 4. “mm” will then start blinking, indicating the minute setting may be changed.
Press key number 2 to scroll from 00 to 59. With the display showing the minute you wish to start selection blocking, press key number 4. The display will return to “Start Hour”. Press key number 1 to return to “Start Time”.
Press key number 2 to scroll to “Stop Time”.

“Stop Time” - Stop Selection Blocking Routine
This function is used to set the day(s) and times to stop selection blocking. Press key number 4 and “Stop Day” will show on the display.

“Stop Day” - Day of Week Stop Setting
This function is used to set the days of the week to stop selection blocking and can be set in the same manner as Day of Week Start Setting.

“Stop Hour” - Stop Hour and Minute Setting
This function is used to set the hours and minutes to stop selection blocking and can be set in the same manner as Start Hour and Minute Setting.
Press key number 1 to return to “Stop Time”.
Press key number 2 to scroll to “Selection”.

“Selection” - Selection To Be Affected By Blocking
This function is used to set selection(s) which will be blocked during certain periods of the day. Press key number 4 and “Select A1 #” will be displayed, where # is the current setting for the selection number displayed. 0 = disabled; 1 = enabled. Press key number 2 to scroll to the key number setting you desire to change. Press key number 4 with the key number showing you wish to change (i.e. Select A1 #) and the # will start blinking. Press key number 2 or 3 to scroll between Select A1 0 and Select A1 1. Press key number 4 with the display showing the setting you wish to use. Display will return to Select A1 #. Press key number 1 to return to “Selection”. Press key number 2 to scroll to “Lighting #”.

“Lighting #” - Lighting / P.O.S. Display Control
This function is used to turn the lights (if supported) and P.O.S. Display Message off during selection blocking period 1. 0 = disable or on; 1 = enable or off.
Press key number 4 and the “#” will start flashing. Press key number 2 or 3 to scroll between “Lighting 0” and “Lighting 1”. Press key number 4 with the display showing the setting you wish to use. Display will return to “Lighting X”.
Press key number 1 to return to “Select Block 1”.
Press key number 2 to scroll to “Select Block 2”.

<u>*”Select Block 2" - BLOCK SELECTION BANK 2 ROUTINE</u>
This function is a second set used to set selection(s) which will be blocked during certain periods of the day. Press key number 4 will enter “Enable X”.

“Enable X” - Blocking Enable Routine.
Set this function using instruction for “Enable X” in “Select Block 1”.

"Start Time" - Start Selection Blocking Routine

This function is used to set the day(s) and times to start selection blocking. Press selection button 4 and "Start Day" will show on the display.

"Start Day" - Day of Week Start Setting

Set this feature using instructions for "Select Block 1", "Start Time", "Start Day".

"Start Hour" - Start Hour and Minute Setting

Set this function using instructions for "Select Block 1", "Start Time", "Start Hour".

"Stop Time" - Stop Selection Blocking Routine.

This function is used to set the day(s) and times to stop selection blocking. Press key number 4 and "Stop Day" will show on the display.

"Stop Day" - Day of Week Stop Setting

Set this function using instructions for "Select Block 1", "Stop Time", "Stop Day".

"Stop Hour" - Stop Hour and Minute Setting

Set this function using instructions for "Select Block 1", "Stop Time", "Stop Hour". Press key number 1 to return to "Stop Time". Press key number 2 to scroll to "Selection".

"Selection" - Selection To Be Affected By Blocking

This function is used to set selection(s) which will be blocked during certain periods of the day. Set this function using instructions for "Select Block 1", "Selection". Press key number 1 to return to "Selection".

Press key number 2 to scroll to "Lighting #".

"Lighting #" - Lighting / P.O.S. Display Control

This function is used to turn the lights (if supported) and P.O.S. Display Message off during selection blocking period 2.

Set this function using instructions for "Select Block 1", "Lighting".

Press key number 1 to return to "Select Block 2".

Press key number 2 to scroll to "Select Discount".

***"Select Discount" - DISCOUNT SETTING ROUTINE (NOT AVAILABLE AT THIS TIME)**

This function is used to set the day(s) and times to allow discount prices. Press key number 4 and Enable # will show on the display.

"Enable #" - Discount Setting Enable Routine

This function is used to disable discounting "Enable 0" or enable discounting "Enable 1". Press key number 4 and the current "Enable X" setting will be displayed. Press key number 2 or 3 to scroll between "Enable 0" and "Enable 1". Press key number 4 with the display blinking the setting you wish to use. Display will return to "Enable X".

Press key number 2 to scroll to "Start Time".

"Start Time" - Start Discount Pricing

This function is used to set the day(s) and times to start discount prices. Press key number 4 and "Start Day" will show on the display.

"Start Day" - Day of the Week Start Setting

Set this feature using instructions for "Select Block 1", "Start Time", "Start Day".

"Start Hour" - Start Hour and Minute Settings

Set this feature using instructions for "Select Block 1, "Start Time", "Start Hour".

"Stop Time" - Stop Discount Pricing

This function is used to set the day(s) and times to stop discount prices. Press key number 4 and "Stop Day" will show on the display.

"Stop Day" - Day to Stop Setting

Set this feature using instructions for "Select Block 1", "Stop Time", "Stop Day".

"Stop Hour" - Stop Hour and Minute Setting

Set this function using instructions for "Select Block 1", "Stop Time", "Stop Hour".

"Selection" - Selection Affected by Discount Pricing

This function is used to set selection(s) which will be affected by discount prices.

Press key number 4 and "Select A1 #" will be displayed, where # is the current setting for the selection number displayed. 0 = disabled, 1 = enabled.

Press key number 2 to scroll to the key number you desire to change.
Press key number 4 with the key number showing you wish to change (i.e. Select A1 #) and the # will start blinking.
Press key number 2 or 3 to scroll between "Select A1 0" and "Select A1 1". Press key number 4 with the display showing the setting you wish to use. Display will return to "Select A1 1".
Press key number 1 to return to "Selection".
Press key number 2 to scroll to "Less Amount".

"Less Amount" - Discount Amount (Price)
This function is used to set the discount amount (price) for selection(s) and times set. Press key number 4
and "##.##" will be displayed, where "##.##" is the current discount price that is set. Press key number 2 or 3 to change the price (00.00 to 99.99). Press key number 4 with the display showing the price setting you wish to use. Display will show price. Press key number 1 to return to "Less Amount". Press key number 1 to return to "Select Discount". Press key number 2 to scroll to "Health Setting".

Health Setting" – HEALTH SETTING ROUTINE (NOT AVAILABLE AT THIS TIME)

This function is used to enable the health protection feature for product when needed. When enabled it operates as follows:

1. Cabinet temperature must be maintained at 41 degrees F (5 degrees C) or below for product to be vended while in normal operation. If the cabinet temperature exceeds 41 degrees F, and fails to return to 41 degrees F or below for 15 minutes the controller will issue a "Health Code" error and disable vending of health protected products.
2. After door closure, (refill or service) the machine has 30 minutes to pull down to 45 degrees F (7 degrees C). If the machine has not reached 45 degrees F (7 degrees C) after 30 minutes the controller will issue a "Health Timer" error. Once a health time error is activated the controller will not allow product to be delivered. After 30 minutes if the temperature is 45 degrees F or less, but not 41 degrees F the controller will set a 15 minute timer. During this time, if the cabinet temperature falls below 41 degrees F (5 degrees C) the controller will allow health guarded product to be delivered. If the temperature doesn't fall below 41 degrees F (5 degrees C) the controller will issue a "Health Code" error and disable vending of health protected products.
3. Power loss for 30 minutes or longer will result in automatic "Health Code" error activation and disable vending of health protected products upon power up.
4. Power loss less than 30 minutes. Once the machine regains power, if the cabinet temperature is 45 degrees F (7 degrees C) or less the controller will allow product to be dispensed. The controller will allow an additional 15 minutes for the temperature to pull down to 41 degrees F (5 degrees C). If the temperature doesn't reach 41 degrees F (5 degrees C) or less after the 15 minute period the controller will issue a "Health Code" error and disable vending of health protected products. If the temperature is greater than 45 degrees F (7 degrees C) on power up the controller will automatically set a "Health Code" error and disable vending of health protected products.
5. Power loss less than 15 minutes. On power up the controller will allow vending. If the cabinet temperature doesn't reach 41 degrees F (5 degrees C) or less in 15 minutes the controller will issue a "Health Code" error and disable vending of health protected products.

To enable, with "Health Setting" on display press key number 4 will enter "Enable #".

"Enable #" – Health Enable Routine
This function is used to enable the Health Protection feature. When enabled, protected selections will only be allowed to vend if health constraints listed above are met.
Press key number 4 and the current "Enable" setting will be displayed. Press key number 2 or 3 to scroll between "Enable 0" and "Enable 1".
Press key number 4 with the display blinking the setting you wish to use. Display will return to "Enable #".
Press key number 2 to scroll to "SELECT".

"Selection" – Selection(s) To Be Affected By Health Protection
This function is used to set selection(s) which will be protected by the Health Protection constraints. Press key number 4 and "All Selections" will be displayed. Press key number 2 to scroll through "All Selections, A, B, C, D, and E". Press key number 4 with the setting you wish to enter. Selecting "A, B, C, D, or E" will allow you to chose settings for that tray.
Example: With "A" showing on display press key number 4. Display will show "All Selections #", press key number 2 to scroll through "A All Selections #, Select A1 #, Select A2 #, Select A3 #, etc… With the setting you wish to change press key number 4 and the # will start blinking.
Press key number 2 to scroll between "0" disabled

and “1” enabled. With the setting you wish to use showing on the display press key number 4. Display will return to “A All Selections # or Select A# #”.
Press key number 1 to return to “Selection”.
Press key number 2 to scroll to “Recheck #”

“Recheck #” – Recheck Feature
This function is used to allow an additional 45 minute period to bring the cabinet temperature down to 41 degrees F (7 degrees C). When this feature is enabled it will operate as follows: After a “Health Time” error has been issued (i.e. the cabinet temperature has not dropped below 45 degrees F in 30 minutes). The controller will perform 3 rechecks of the temperature in the next 45 minute period. Rechecks will occur in 15 minute intervals. During this period the controller will not allow vending to occur on health guarded selections.

1. If the cabinet temperature reaches 41 degrees F (5 degrees C) or less during this time the “Health Time” error will be cleared. The controller will allow health guarded product to be delivered.

2. If after the 3rd recheck period the temperature is greater than 41 degrees F (5 degrees C). The controller will clear the “Health Time” error, set the “Recheck Failed” error and vending health guarded products will continue to be disabled. 3. If during the recheck period, any temperature reading that is greater than the previous reading (a trend leading in the upwards direction) will result in clearing the “Health Time” error, setting the “Recheck Failed” error and vending health protected products will continue to be disabled.

“Over-ride Switch” - MANUAL SWITCH OVERRIDE ROUTINE (NOT AVAILABLE AT THIS TIME)
This function is used to allow a key switch to override some of the settings stored for normal operations. This function can be programmed to control one or several of the following features: Free Vend Enable, Selection Blocking, Discount Pricing, and Lighting Control. Press key number 4 and the display will show “Free Vend #”. Press key number 2 or 3 to scroll through the override routines available. Press key number 1 to return to “Over-ride Switch”.

“Free Vend #” - Free Vend Enable Routine
This function is used to set the vender to free vend. 0 = disable, 1 = enable. Press key number 4 and “#” will start flashing. Press key number 2 or 3 to scroll between “Free Vend 0” and “Free Vend 1”. Press key number 4 with the display blinking the setting you wish to use. Display will return to “Free Vend #”.
Press key number 2 to scroll to “No Vend #”.

“No Vend #” - No Vend (Vend Override) Enable Routing
This function is used to set vender selections to not be allowed to vend and a “No sales available” message to be displayed. 0 = disable, 1 = enable.
Press key number 4 and “#” will start flashing.
Press key number 2 or 3 to scroll between No Vend 0 and No Vend 1.
Press key number 4 with the display showing the setting you wish to use.
Display will return to “No Vend #”.
Press key number 2 to scroll to “Sales Block #”.

“Sales Block #” - Selection Blocking Override Routine
This function is used to override “Select Block 1” and “Select Block 2” if they are being used. “Sales Block 0” is disabled, “Sales Block 1” is enabled.
Press key number 4 and “#” will start flashing.
Press key number 2 or 3 to scroll between “Sales Block 0” and “Sales Block 1”. Press key number 4 with the display blinking the setting you wish to use. Display will return to “Sales Block #”.
Press key number 2 to scroll to “Discount #”.

“Discount #” - Discounting Override Routine
This function is used to override “Select Discount” if it is being used. “Discount 0” is disabled and “Discount 1” is enabled.
Press key number 4 and “#” will start flashing.
Press key number 2 or 3 to scroll between “Discount 0” and “Discount 1”. Press key number 4 with the display showing the setting you wish to use. Display will return to “Discount #”.
Press key number 2 to scroll to “Lighting #”.

“Lighting #” - Lighting Control Override Routine
This function is used to override “Lighting Control” if it is being used. “Lighting 0” is disabled and “Lighting 1” is enabled.
Press key number 4 and “#” will start flashing.
Press key number 2 or 3 to scroll between “Lighting 0” and “Lighting 1”. Press key number 4 with the display blinking the setting you wish to use. Display will return to “Lighting #”. Press key number 2 to scroll to “Refrigeration #”.

"Refrigeration #" - Refrigeration Control Override Routine
This function is used to override "Refrigeration", if it is being used. "Refrigeration 0" = disabled and "Refrigeration 1" = enabled.
Press key number 4 and "#" will start flashing.
Press key number 2 or 3 to scroll between "Refrigeration 0" and "Refrigeration 1". Press key number 4 with the display showing the setting you wish to use. Display will return to "Refrigeration #".
Press key number 1 to return to "Over-ride Switch".
Press key number 2 to scroll to "Remote Vend Mech".

"Remote Vend Mech" - REMOTE VEND MECHANISM ROUTINE (NOT AVAILABLE AT THIS TIME)
This function is used to activate the Universal Satellite Device Control routine.
Press key number 4 to enter routine. If the controller detects a device responding to the remote vend mechanism address (USD address #3,50H), the vend request commands for this device will be controlled by the following parameters.

"Start Time" - Start Time Setting Routine
This function is used to set the day(s) and time to start the routine. Press key number 4 and "Start Day" will show on the display.

"Start Day" - Day of week to start setting
Set this feature using instructions for "Select Block 1", "Start Time", "Start Day".

"Start Hour" - Start hour and minute settings
Set this feature using instructions for "Select Block 1", "Start Time", "Start Hour".

"Stop Time" - Stop Time Setting Routine
This function is used to set the day(s) and time to stop the routine. Press key number 4 and "Stop Day" will show on the display.

"Stop Day" - Day of week to stop setting
Set this feature using instructions for "Select Block 1", "Stop Time", "Stop Day".

"Stop Hour" - Stop hour and minute settings
Set this feature using instructions for "Select Block 1", "Stop Time", "Stop Hour".

"Selection" - Selection Setting Routine
This feature is used to set the selection(s) which will be affected by the Remote Vend Mechanism routine. Press key number 4 and "Select A1 #" will be displayed, where # is the current setting for the selection number displayed. 0 = disabled, 1 = enabled.
Press key number 2 to scroll to the select button number you desire to change.
Press key number 4 with the select button number showing you wish to change (i.e. Select A1 #) and the # will start blinking.
Press key number 2 or 3 to scroll between "Select A1 0" and "Select A1 1". Press key number 4 with the display showing the setting you wish to use. Display will return to "Select ## #".
Press key number 1 to return to "Selection".
Press key number 2 to scroll to "Vend Rate".

"Vend Rate" - Universal Satellite Device (USD) Vend Rate Routine This function is used to set the vend rate (0-255).
Press key number 4 and the current vend rate (0-255) will show on the display.
Press key number 2 to increase, or 3 to decrease the number in single digit increments.
NOTE: A rate of "0" disables the USD. All other rates, #, will cause a vend command every #'th local vend.
Press key number 4 with the display showing the vend rate you wish to use and the display will return to "Vend Rate".
Press key number 1 to return to "Remote Vend Mech".

"Return to Sales Mode" - RETURN TO SALES MODE
Press key number 4 will exit Service Mode and return to Sales Mode.

COCA-COLA BevMax 3 PROGRAMMING
METHOD QUICK REFERENCE
MENU PROMPTS

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

**Error Codes - Error Readout Routine
** Vend Mechanism - Vend Mechanism
Error Column Jam # - Column Jam
**Control System - Control System
Error Door Switch - Door Switch
RAM Checksum - Board Check
Sum AC Supply Low - Voltage Low
Scale Factor - Scale Factor
**Selection Switch - Select Switch Error
Selection Sw # - Select Switch
**Changer - Changer Error
Changer Comm - Changer Communication
Tube Sense - Tube Sensor Coin Inlet - Inlet
Chute Blocked Tube Jam # - Tube Jam
Changer ROM - Changer ROM
Excessive Escrow - Excessive Escrow
Attempt Coin Jam - Coin Jam Coin Mech
Low Acceptance - Low Coin Accept Rate
Acceptor Diconn - Acceptor Unplugged
Coin Routing - Coin Mis-Routed
**Bill Validator - Bill Validator Error
Bill Val Comm - Validator Communication
Bill Stack Full - Stacker Full Bill Motor Err -
Defective Motor Bill Jam - Bill Jam Bill Val
ROM - Check Sum BILL OPEN - Open
Stacker Bill Sensor Err - Validator Sensor
**Card Reader - Card Reader Error Card Reader
Comm - No Reader Communication Card
Reader # - Failed Reader
**Remote Vend Mech - Remote Vend Mechanism Error
Rem Vend Comm # - No Communication
Remote Vend # # - Indicates Error Code
**Select/Display - Selection / Display Device Error
Sel/Display Comm - No Communication
**Refrigeration - Refrigeration Error Temp
Sensor Err - Temp Sensor Bad Temp
Too Cold - 2^0 Below Lower Limit Temp
Too Hot - 2^0 Above Lower Limit
Not Cooling - Failed System
**Health - Health Timer No Error Codes
Health Timer - Health Timer Error
Health Code - Health Code Error
Recheck Failed - Recheck
**Coin Pay Out - Coin Payout Mode
**Tube Fill - Tube Fill Mode **Test
Test Mode - Test Routine
Test Vend - Vend Testing
Test Sel Switch - Select Switch Test
Test Display - Display Test
Test Relays - Relay Test
Mechanism Home Position.
**Password Entry - Password
**Cash Counters - Cash Counter Routine
Cash Tot ######## - Historical Cash Counter / Vender
Card Tot /#######.## - Historical Card Reader Cash Counter
**Sales Counters- Sales Counter Routine
Sales Tot /######## - Historical Vend Counter/Vender
Sales Sel A1/####/#### - Interval Vend Counter/Select
**Price Program - Price Setting Routine
Price Sel # - Price For Each Selection
**StS Programming - Space-To-Sales Settings
**Config Switches - Machine Configuration
Config # (# = 1 thru 10) Config #0 (off), Config #1 (on)
Correct Change - Correct Change Settings
Preview Password - Password Setting
Language Select - Language Setting
Time Proogramming- Time and Date Setting
Lighting Control - Light Conservation Setting
Refrigeration - Energy Conservation Setting
Select Block 1 - Select Blocking Settings
Select Block 2 - Select Blocking Settings
Select Discount - Discount Price Settings
Health Settings - Health Protection Feature
Over-ride Switch - Manual Switch Override Setting
Remote Vend Mech - Remote Vend Mech Setting
Return to Sales Mode - Return

DIXIE NARCO FACTORY DIAGNOSTICS

At "ERROR CODES" press "1" "5" "1" "5" "1".
"Shelf Adjust" – Test delivery cup to shelf alignment
"Alignment" – Test X belt tension
"Price Program" – Set price
"Extended Cup #" – Set delivery cup being used
"Swipe Alignment" – Set hook swipe of delivery cup
"Column Diag" – Column diagnostics tests XY switches, delivery motor, & cup
"Test Sel Switch: - Test select switch
"Software Rev" – View current software revision installed
"Log" – DO NOT USE
"Encoder error" – DO NOT USE
"Dump Encoder DAQ" – DO NOT USE

Dixie-Narco Factory Diagnostics

The below diagnostic features are used for aligning the XY assembly and providing pertinent information that is unique to the Coca-Cola BevMax 3 Vender and is not found in the standard programming of the vender. These include “Shelf Adjust”, “Alignment”, “Set Price”, “Extended Cup”, “Swipe Adjustment”, “Column Diagnostics”, “Test Select Switch”, “Software Revision”, and “Log”.

To enter Dixie-Narco Factory Diagnostic sub menu:

Press the service switch on the controller (Blue button on the control board). When the display reads "Error Codes" press and let go of the following keys in order; "1" "5" "1" "5" "1". If the keys were actuated correctly, the VMC will enter the factory diagnostic mode and the display will read "Factory Diagnostics". Pressing the number "4" key one time will cause the VMC to enter the diagnostic mode or press and hold the number "1" key for 1 second to exit the "Factory Diagnostic" submenu and return to the "Error Codes" service menu prompt. Once you enter the "Factory Diagnostic" submenu, press and hold the number "2" key and the VMC will begin to cycle forward through the available options or press and hold the number “3” key to cycle backwards through the available options. Press key 4 one time at any option for the VMC to enter that option.

Shelf Adjust – Test Delivery Cup to Shelf Alignment**:**

This sub menu will be used to set the XY to the proper shelf height.

Press key number "4" one time at the “Shelf Adjust” prompt. The VMC will enter the shelf adjust option and display the current shelf offset position as “v #### = 0.85””. Press key "4" one time , the VMC will move the delivery cup to the saved offset position. Press key “5” and the VMC will turn on the picker motor and cycle the plunger arm. The picker arm should strike the bottom half of the target. If it does press the number "4" key one time to save the shelf adjust. To adjust the delivery cup upwards press key “2” or to adjust delivery cup down press key “3”. Once adjusted to where you want it press key “4” to save the shelf offset. Press key "1" two times to exit the “Shelf Adjust” setting.

Alignment – Test X Belt Tension**:**

This sub menu will be used to test the vend mechanism alignment to specific columns confirming the proper X belt tension. In the field it should only be used if the belt has been replaced or adjusted and if the XY assembly has been physically adjusted.

Pull the PI (Power Interrupt) Switch to the out position. Press key "4" one time at the “Alignment” Prompt. This will cause the VMC to enter the alignment option.

1. Press key "4" one time. This will cause the VMC to move the vend mechanism from the home to the D1 position. (Bottom belt adjustment)
2. Press key "4" again. The VMC will move the vend mech to the A5 position. (Top belt adjustment).

Note: If display says can not reach A5, the PI switch is not pulled out or bad.

3. Press key "4" again. The VMC will move the vend mechanism to the E1 position. (Start vend mech alignment)
4. Press key "4" again. The VMC will move the vend mechanism to the A1 position. (Second step for vend mech alignment)
5. Press key "4" again. The VMC will move the vend mechanism tot he A8 position. (The third step for vend mech alignment)
6. Press key "4" again. The VMC will move the vend mechanism to the E8 position. (Last step for vend mech alignment)

Press key "4" again and the VMC will return to step 3 above.

10. Press key number "1" and the VMC will exit the alignment option.

Price Program – To Set Price**:**

This sub menu will allow the line associate to set the machine to zero prices. This is the same procedure listed in the standard programming section.

Press key number 4 one time at the “Set Price” Prompt. The VMC will enter the price setting routine and display "Single Price". Press key "4" one time. This will cause the VMC to enter the price setting routine and display the current price of the machine. Press and hold key 2 to change the price. Prices will increment in the forward direction. Example, if the machine's prices were programmed to be 99.95, pressing the number "2" key would cause the price to change from 99.95 to 0. Holding the key will cause the prices to increment by 0.05 every 400mS. Press and hold key 3 to change the price. Prices will decrement in the reverse direction. Example, if the machine's prices were programmed to be 99.95, pressing the number "3" key would cause the price to change from 99.95 to 99.90. Holding the key will cause the prices to decrement by 0.05 every 400mS. Press key '4" one time to save the desired price setting that is shown on display.

Press key "1" one time will cause the VMC to exit the Set Price option.

Extended Cup # – To set Cup being used**:**
This sub menu will be used to set the version of the Cup Assembly being used. This should be set to "1". Press key number 4 one time at the "Extended Cup" prompt. The VMC will enter the Extended Cup Routine and display the current setting. Press key "4" one time. This will cause the VMC to enter the Extended Cup routine and the current setting will flash on and off. Press button 2 to toggle the setting from 0 to 1 or 1 to 0. To save the desired setting displayed, press key "4" one time.

Swipe Alignment – Set Hook Swipe of delivery Cup**:**
This sub menu will be used to set the swipe position if the delivery cup is not reaching the port lip to transfer product from the delivery cup to the port assembly.
Pull the PI (Power Interrupt) Switch to the out position. Press key number "4" one time at the "Swipe Alignment" prompt. The VMC will enter the swipe position alignment routine.
Note: This routine should only be used if the cup does not engage the port lip upon transfer of the product from the cup to the port.
Press key "4" one time. The VMC will move the delivery cup to the programmed swipe position and display its location. If adjustment is needed use the following adjustment keys:

A. Press and hold key "2" will cause the VMC to move the delivery cup upwards.
B. Press and hold key "3" will cause the VMC to move the delivery cup downwards.
C. Press and hold key "5" will cause the VMC to move the vend mech cup horizontally to the left.
D. Press and hold key "6" will cause the VMC to move the vend mech cup horizontally to the right.

Press key "4" one time to save the swipe position.
Press key "1" two times to exit the option.

Column Diag – Column Diagnostics:
This sub menu will be used to determine if the X & Y home switches, picker motor, and the vend mech are functional. Pull the PI (Power Interrupt) Switch to the out position. Press key number "4" one time at the "Column Diag" prompt. This will cause the VMC to enter into the option. Press key "5" one time and the VMC will cycle the picker motor. Press key "2" to move in a forward direction through the available columns. Example: A1, A2, A3...
Press key "3" to move in a reverse direction through the available columns. Example: A1, E9, E8...
Press key "4" at the desired column and the VMC will move the delivery cup to that position. It will not cycle the picker motor or try to deliver product. The VMC will simply move the delivery cup to the desired location. Press key "1" to return to the home position.
Press key "1" again to exit the option.

Test Sel Switch – Test Select Switch:
This sub menu will be used to test the keypad. This is the same procedure listed in the standard programming section. Press key "4" one time at the "Test Sel Switch" prompt. The VMC will enter into the select switch test routine. Press any key. The VMC will display the key pressed until another switch has been actuated.
Press and hold key 1 for 2 seconds to exit the Test Sel Switch option.

Software Rev – To view Software Revision Installed**:**
This sub menu will display the current VMC software revision. Note: this option has not been fully integrated. Currently it will only read the software build number and not it's checksum. Press key "4" one time at the "Software Rev" prompt. The VMC will enter into the Software revision routine and display the current build number (future releases will show the software revision number as ###.##).
Press key "1" one time to exit the Software Rev option.

Log – DO NOT USE:
Used for engineering purposes only. Entering this will not damage anything, but the vender will be inoperable while this program runs (approximately 15 seconds).

Encoder Error – DO NOT USE:
Used for engineering purposes only.

Dump Encoder DAQ – DO NOT USE:
Used for engineering purposes only.

General Maintenance

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

POWER

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

CAUTION:
REMOVE POWER TO THE AC DISTRIBUTION BOX BEFORE CLEANING OR WHEN ANY ELECTRICAL COMPONENTS ARE CONNECTED / DISCONNECTED FOR TESTING OR REPLACEMENT.

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

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

CLEANING

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

GLASS DOOR

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

VERTICAL LAMP LENS COVER

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

TRAYS / TRAY INSERTS

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

DOOR LIGHTING

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

SLIDE/PUSHER ASSEMBLY

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

CABINET

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

Remove any debris which may have accumulated around, under or behind the cabinet.

DRAIN PAN, DRAIN TUBE, AND DRAIN HOSE

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

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

REFRIGERATION CONDENSER

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

COIN ACCEPTOR

Follow the Coin Acceptor Manufacturer's instructions.

LUBRICATING THE VENDER

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

UPDATE SOFTWARE

The following information describes how to update software. All new software revisions will automatically update the software revision in the control board. **Important**: Eproms containing software are sensitive to Electrostatic Discharge (ESD). Failure to handle the Eprom carefully could cause damage, which may result in a failed control board. **ALWAYS KEEP THE EPROM IN THE ESD TUBE. GROUND YOURSELF ON THE VENDER CABINET BEFORE REMOVING THE EPROM FROM THE ESD TUBE OR CONTROL BOARD. AN EPROM CAN BE USED TO PROGRAM MANY VENDERS, AS LONG AS CARE IS TAKEN NOT TO DAMAGE THE EPROMS LEGS. ALWAYS TURN POWER OFF BEFORE REMOVING OR INSTALLING EPROMS IN THE CONTROL BOARD.**

EPROM Removal:

a. Power down the Vender. Ground yourself on the vender cabinet before removing the EPROM from the ESD tube or control board.
b. If an Eprom is present in the control board, remove the existing Eprom.
    i. Note; An Eprom does not need to be in the control board after the control board has been programmed. The Eprom can be used to program other boards.
c. Verify the pins of the new Eprom are not bent before installing in the Eprom socket.
d. Install the new Eprom in the Eprom socket. Ensure the Eprom is oriented correctly with its reference marker (locator) in the same direction as the reference marker (locator) of the Eprom socket. Do not rely on the Eprom label for orientating the Eprom.

2. Automatic Reprogramming:
    a. Turn power on to Vender. When auto-updating the display will show old version for a few seconds while the red LED on the control board blinks.
    b. Display will change to "EPROM UPGRADE…" for approximately 10 seconds with the green LED rapidly blinking.
    c. Display will change to new version software with red LED blinking at a steady heart beat rate.

Note: to remove the Eprom after programming, remove power to the vender, ground yourself on the vender cabinet before removing the Eprom, remove the Eprom, while still grounded install a label on the microprocessor showing the revision of software that is installed in the controller, power the vender back on and test for proper operation.

AC DISTRIBUTION BOX

Bev Max 2
110 VAC units

Main Power Switch / Plug	Interrupts hot side of incoming power to all components in machine.
15 Amp Outlet (110 VAC)	Provides power to refrigeration unit.
Transformer (T1)	Provides 24 Volt and 12 Volt (center tap) power to the Controller Board.
Fuse (Top)	5 Amp, SloBlo; protects 24 Volt input to Controller Board from secondary of T1.
Fuse (Bottom)	2 Amp, SloBlo; protects primary of the Transformer T1.
Power Board Domestic	804,922,57x.x1 – distributes 120V AC to the compressor, lights, and the evaporator fan.

Service Door Switches

Power Interrupt (PI) Switch - (10 Amp) in the XY Motor Circuits, Port Door Motor Circuit, and Picker Motor Circuit.

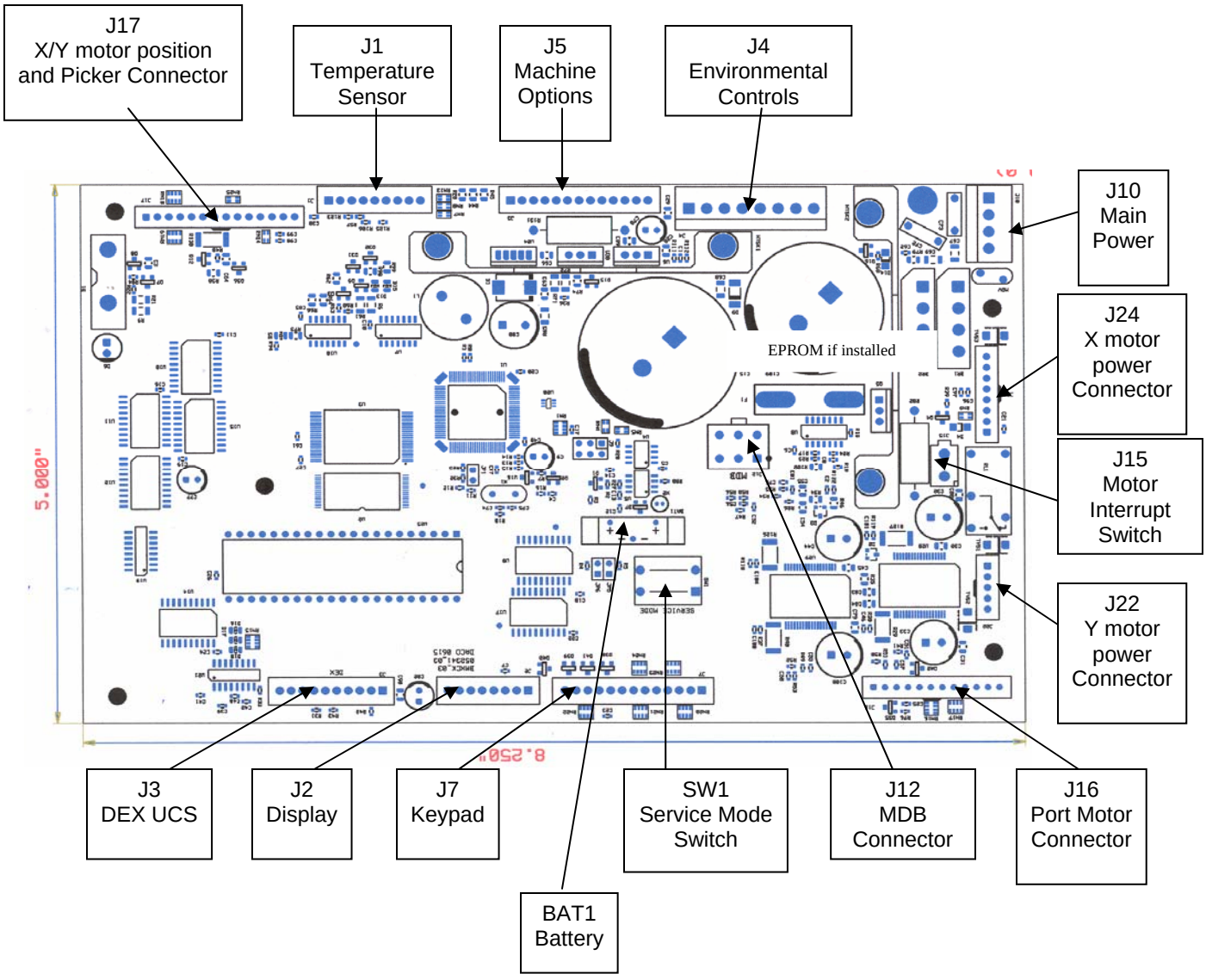
Door Switch – (1/10 Amp) in the Control Board circuit. DC voltage.

REFRIGERATION UNIT

110 VAC

Compressor	Aspera, ½ HP, 115 VAC, 60 Hz, 1 Phase T6213Z. Unit uses 13 oz. of 134A refrigerant
Start Relay	110 VAC – T1 9660-041-180 Double Pole, 115 VAC
Start Capacitor	110 VAC - 189227
Thermal Overload	110 VAC – T1 MST16AFN3001
Condenser Fan	16W Motor 110 VAC FV100CW25S Blade – 10” dia.
Evaporator Fan	Motor 110 VAC – SPGE9HBV1 Blade – 8” dia.

BevMax 3 Controller



BEVMAX 3 TROUBLESHOOTING "XY" ISSUES

1. Selection will not vend.
    a. Does vend function?
        i. Perform TEST VEND in TEST MODE to ensure proper operation of the vend mechanism.
        ii. Check Custom Space-To-Sales has been enabled.
            1. Check STS configuration in Menu and verify that the selection in question has a column assigned to it.
    b. Did the gate actuate at all?
        i. Plunger cycled but gate but did not fully actuate.
            1. Gate Sticking.
                a. Check plunger to target alignment in DN Factory Diagnostics Column Diag Test.
                b. Shuttle bad.
                c. Bent pins.
                d. Check gear box & follower.
            2. Possible delivery cup assembly position alignment problem
                a. Plunger should hit approximately ¼" from top edge of target.
                    i. Adjust shelf adjust in DN Factory Diagnostics Shelf Adjust.
                b. Perform vend test on selections.
                    i. Only occurs on one column.
                        1. Defective target.
                        2. Defective gear box.
                        3. Defective follower.
                    ii. Occurs on entire shelf.
                        1. Shelf not secured on supports.
                        2. Position alignment.
                    iii. Occurs on same column, multiple shelves (A2, B2, C2, D2, E2).
                        1. Shelf not secured on supports.
                        2. Position alignment.
            3. Plunger did not cycle fully.
                a. Replace delivery cup assembly.
                b. Replace motor interface board.
                c. Replace control board.
                d. Replace E-Chain harness 804,924,98x.x1.
                e. Replace Y E-Chain harness 804,924,79x.x1.
        ii. Gate did actuate
            1. Product and gate mismatch.
            2. Possible delivery cup assembly position alignment problem
                a. Plunger should hit approximately ¼" from top edge of target.
                    i. Adjust position alignment in DN Factory Diagnostics Shelf Adjust.
                b. Perform vend test on columns.
                    i. Only occurs on one column.
                        1. Defective target.
                        2. Defective gear box.
                        3. Defective follower.
            3. Dirty / worn tray slide with pusher.
                a. Check slide with pusher.

2. Delivery Cup Assembly Plunger Issues.
    a. Plunger jam/dry vend controller sets the error message “Vend Mechanism, Picker Error”.
        i. Syrup/dirt causing plunger or plunger home switches to stick.
        ii. Replace delivery cup assembly.
        iii. Replace Motor interface board.
        iv. Replace E-Chain harness 804,924,98x.x1.
        v. Replace Y E-Chain harness 804,924,79x.x1.
    b. Plunger Hits Chassis.
        i. Check tray is level and secured to tray supports.
        ii. Check harness connections.
        iii. Check X motor (bottom right).
        iv. Check belt tension. Look for the belt to slip.
        v. Check shelf adjust in DN Factory Diagnostics Shelf Adjust.
    c. Plunger Stays Out.
        i. Check for syrup or dirt build up.
        ii. Check Harness connections.
        iii. Replace cup assy.
        iv. Replace Y E-Chain harness 804,924,79x.x1.
        v. Replace Motor interface board.
        vi. Replace E-Chain harness 804,924,98x.x1.
        vii. Replace control board.

3. Delivery Cup Assembly Will Not Go Home.
    a. Is there a “Vend Mechanism” error on the display when the door has been opened?
        i. If yes check the “Y” (lower) and “X” (top far left) home switches.
            1. In Test Mode/ Test Vend with the top door switch (PI) pressed in:
                a. At the home position the “Y” (lower) home switch will light a green LED on the control board. (Not available on early models).
                b. At the home position the “X” (top far left) home switch will light an amber LED on the control board. (Not available on early models).
                    i. Adjust the X drive belt at the bottom left belt clamp.
    b. Check dynamic tensioner.
        i. On rear belt it should be 6” from the bottom.
        ii. If one is installed on the front belt it should be 6” from the top.

4. Elevator will not move vertically.
    a. Perform TEST MODE/TEST VEND to test movement.
    b. Check door switch.
        i. Is it functioning.
        ii. Is it being made when door is closed.
    c. Check the Delivery Cup Plunger & Plunger Home Switch.
        i. If plunger arm is stuck out it will shut down XY delivery system.
        ii. If plunger arm home switch fails it will shut down XY delivery system.
    d. Check the 10 pin harness connector to the “Y” motor.
    e. Check rollers.
    f. Check Y motor harness and motor.
    g. Check E-Chain harness.
    h. Replace the motor interface board.
    i. Replace control board.

5. Elevator will not move horizontally.
    a. Perform TEST MODE/TEST VEND to test movement.
    b. Check door switch
        i. Is it functioning.
        ii. Is it being made when door is shut.
    c. Check the lower and top far left home switches.
        i. In Test Vend/Position Test with the left door switch (PI) pressed in:
            1. At the home position the “Y” (lower) home switch will light a green LED on the control board. (Not available on early models).
            2. At the home position the “X” (top far left) home switch will light an amber LED on the control board. (Not available on early models).
                a. Adjust the X drive belt.
    d. Check the Delivery Cup Plunger & Plunger Home Switch
        i. If plunger arm is stuck out it will shut down XY delivery system.
        ii. If plunger arm home switch fails it will shut down XY delivery system.
    e. Check rollers.
    f. Check X motor harness and motor.
    g. Replace control board.

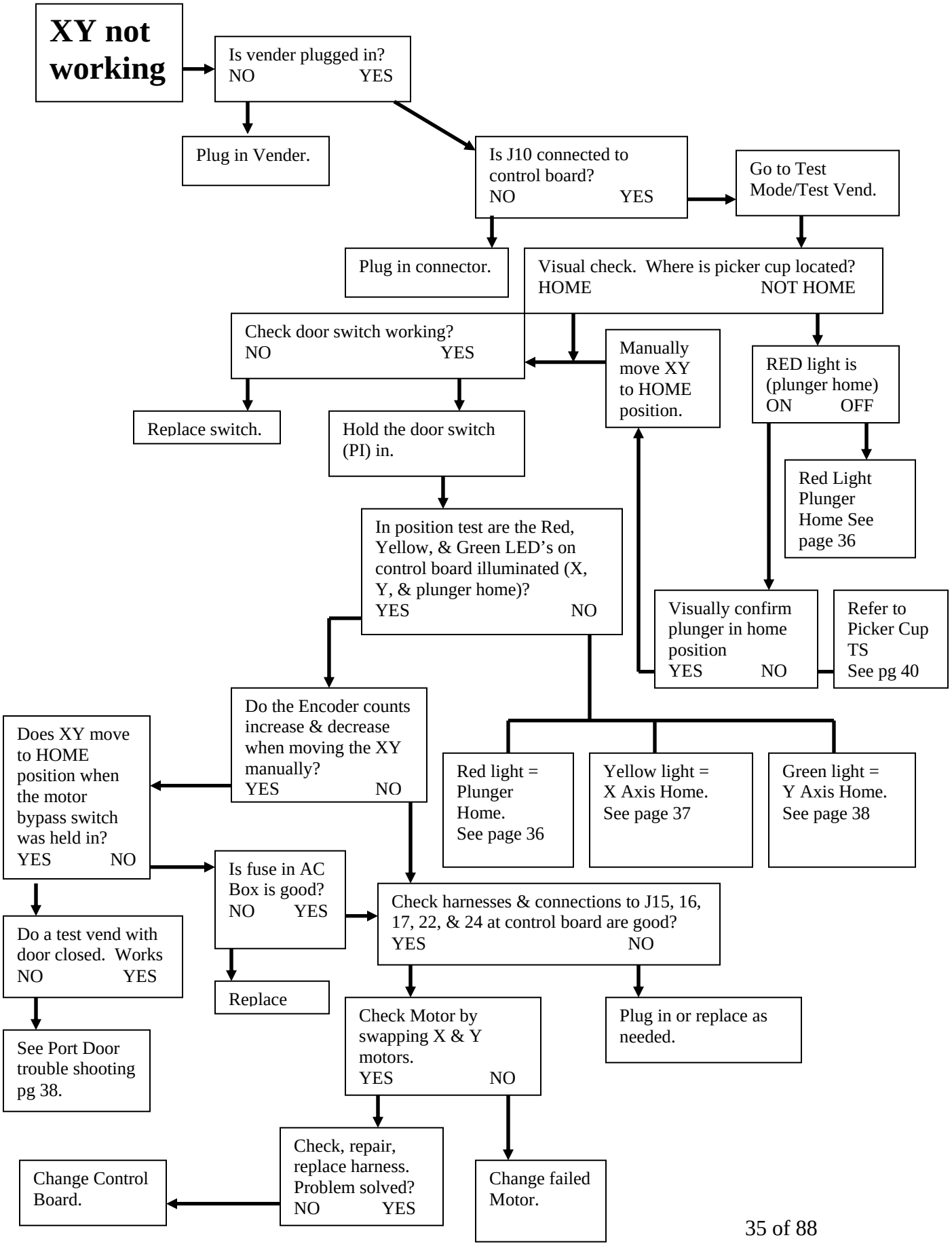
6. Product Will Not Load From Delivery Cup Assembly To Port Assembly.
    a. Perform TEST MODE/TEST VEND to test movement.
    b. Check belt tension.
    c. Check Service Wall Port Door Assembly is securely installed.
    d. Check the vend mechanism alignment.
    e. Check the vertical swipe position.

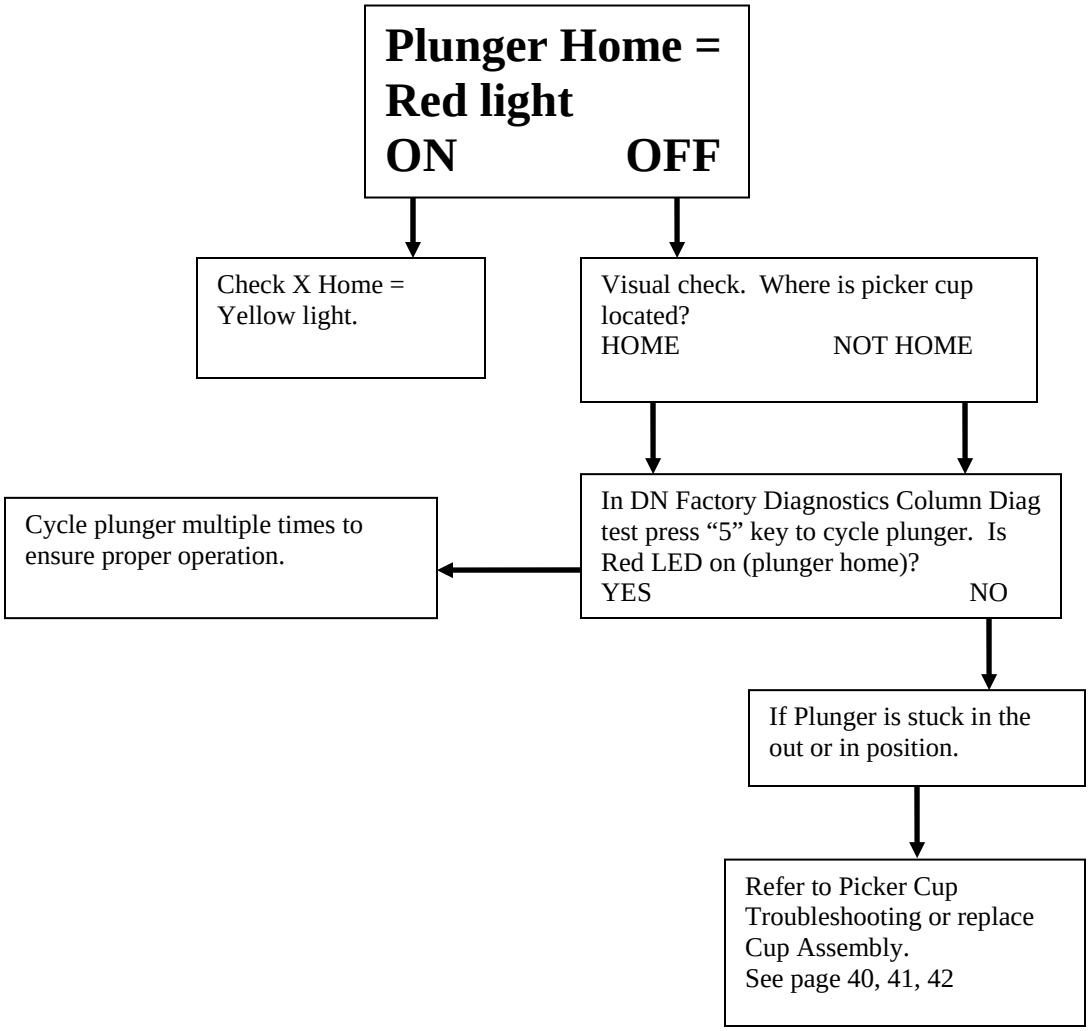
7. Port Assembly On Service Door Will Not Open.
    a. Perform TEST MODE/TEST VEND test movement.
        1. Port open will light the Amber LED on control board (Not available on early models).
        2. Port closed will light the Green LED on control board (Not available on early models).
    b. Check for syrup or dirt build up.
    c. Replace port assembly.
    d. Check harness and motor.
    e. Check vend sensor and vend sensor harness.
    f. Check vend sensor ground wire.
    g. Check the port open and closed switches.
    h. Replace control board.

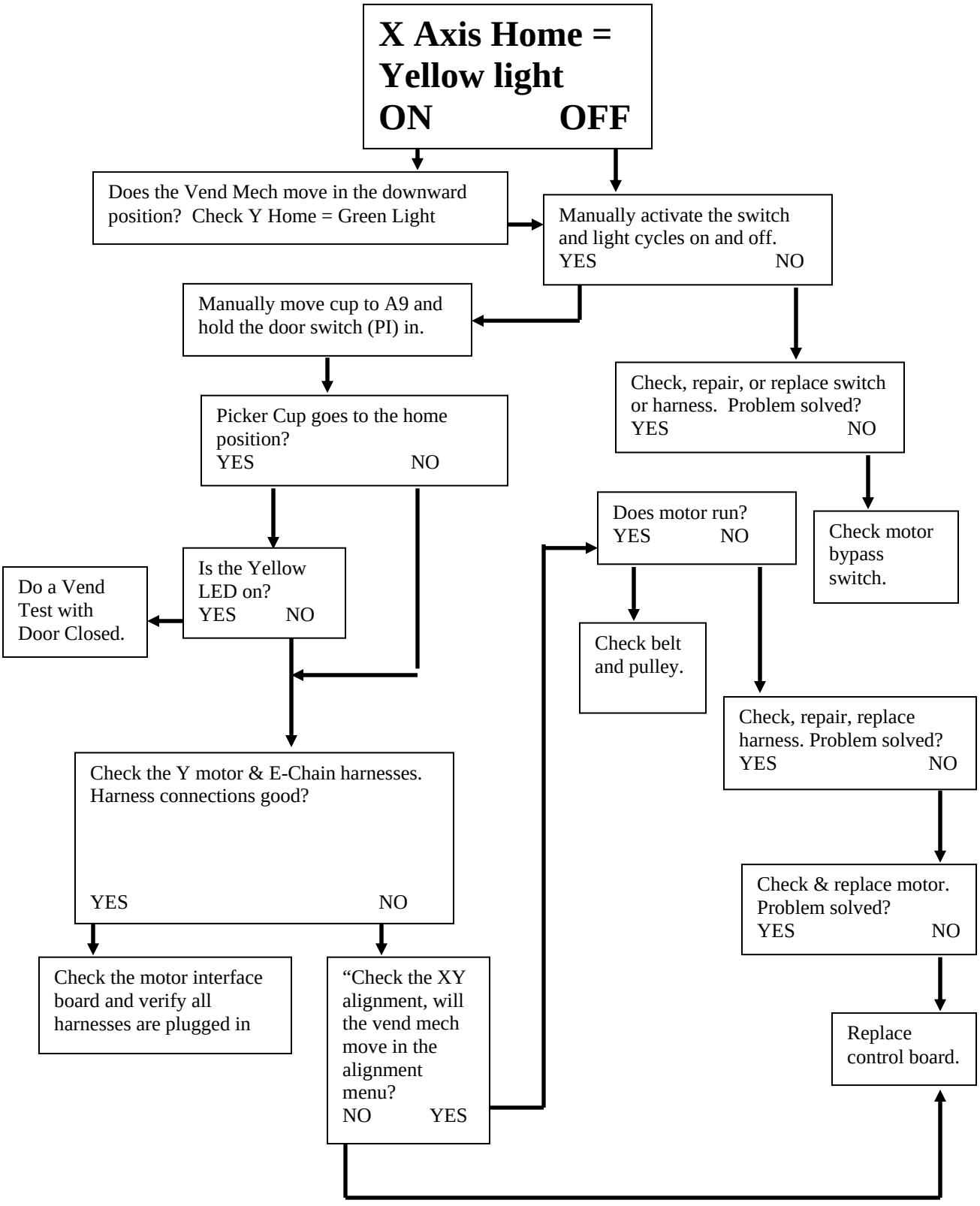
8. Double Vend From Gate
    a. Too many packages loaded in column.

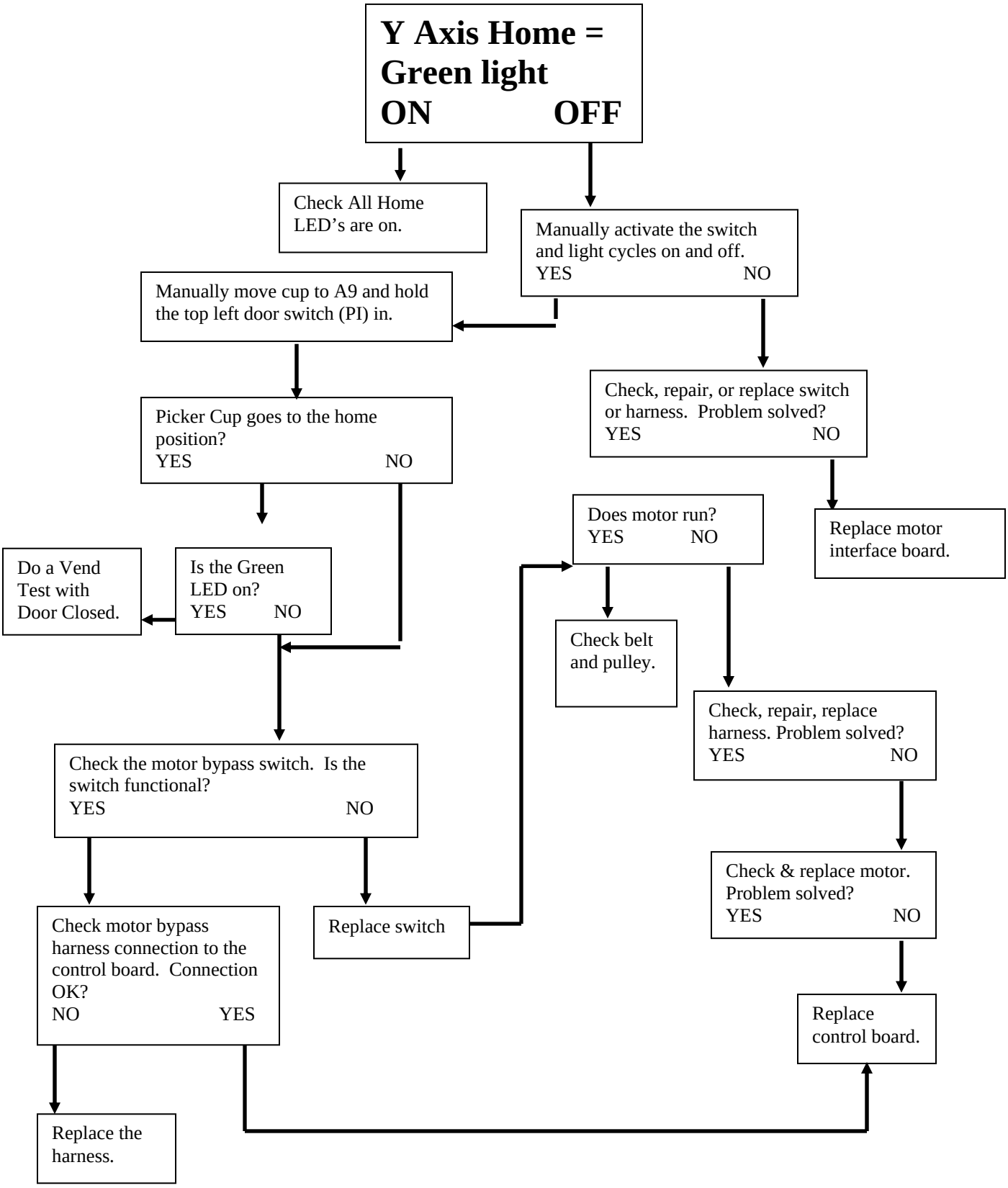
9. Package Not Sliding On Slide Assembly.
    a. Vender not level.
    b. Slide not installed correctly.
    c. Slide dirty. Clean and apply Armoral or Food Grade Silicone.

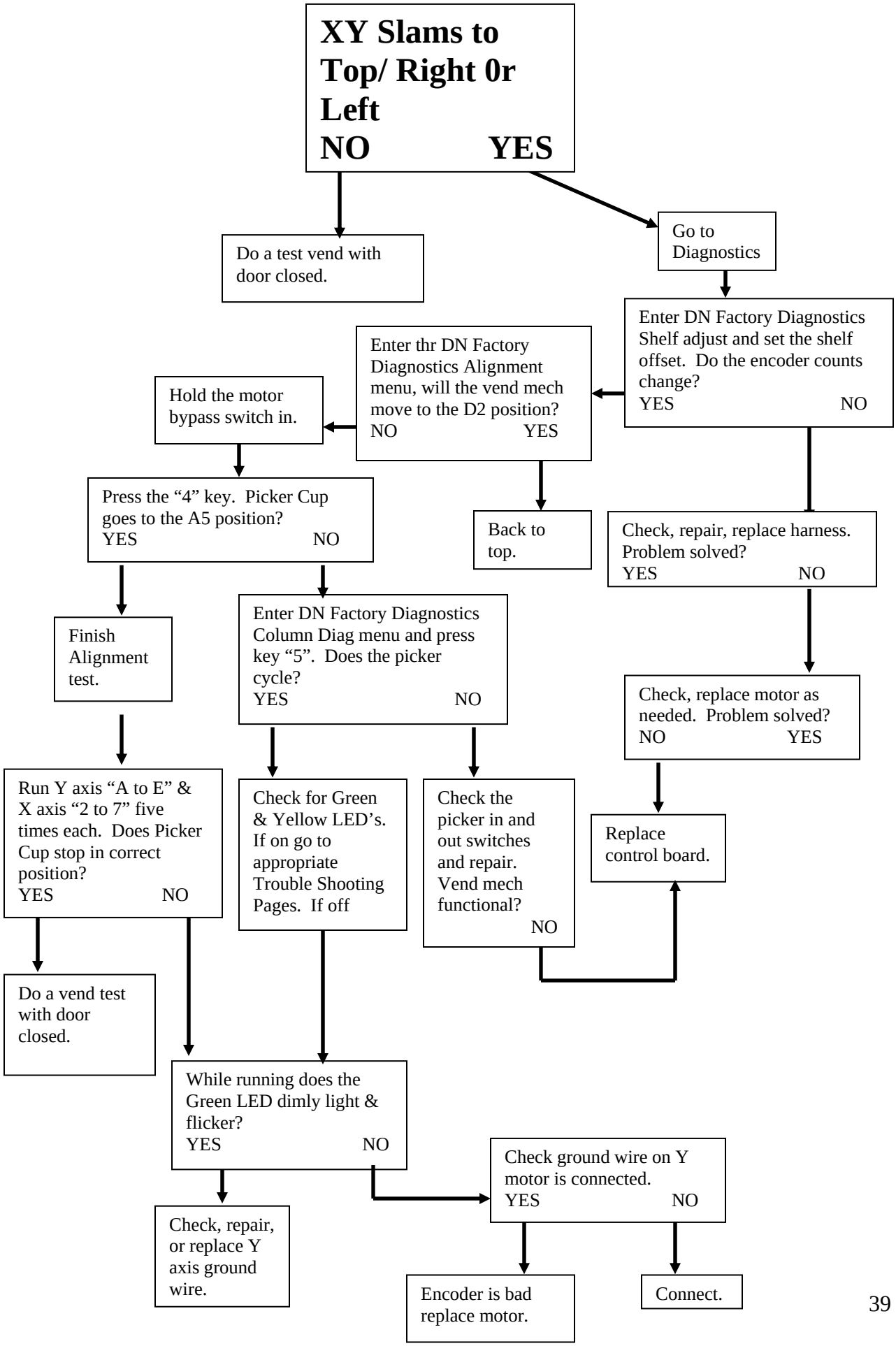
10. Delivery Cup Assembly Caught On Tray
    a. Check vender is level.
    b. Check rollers.

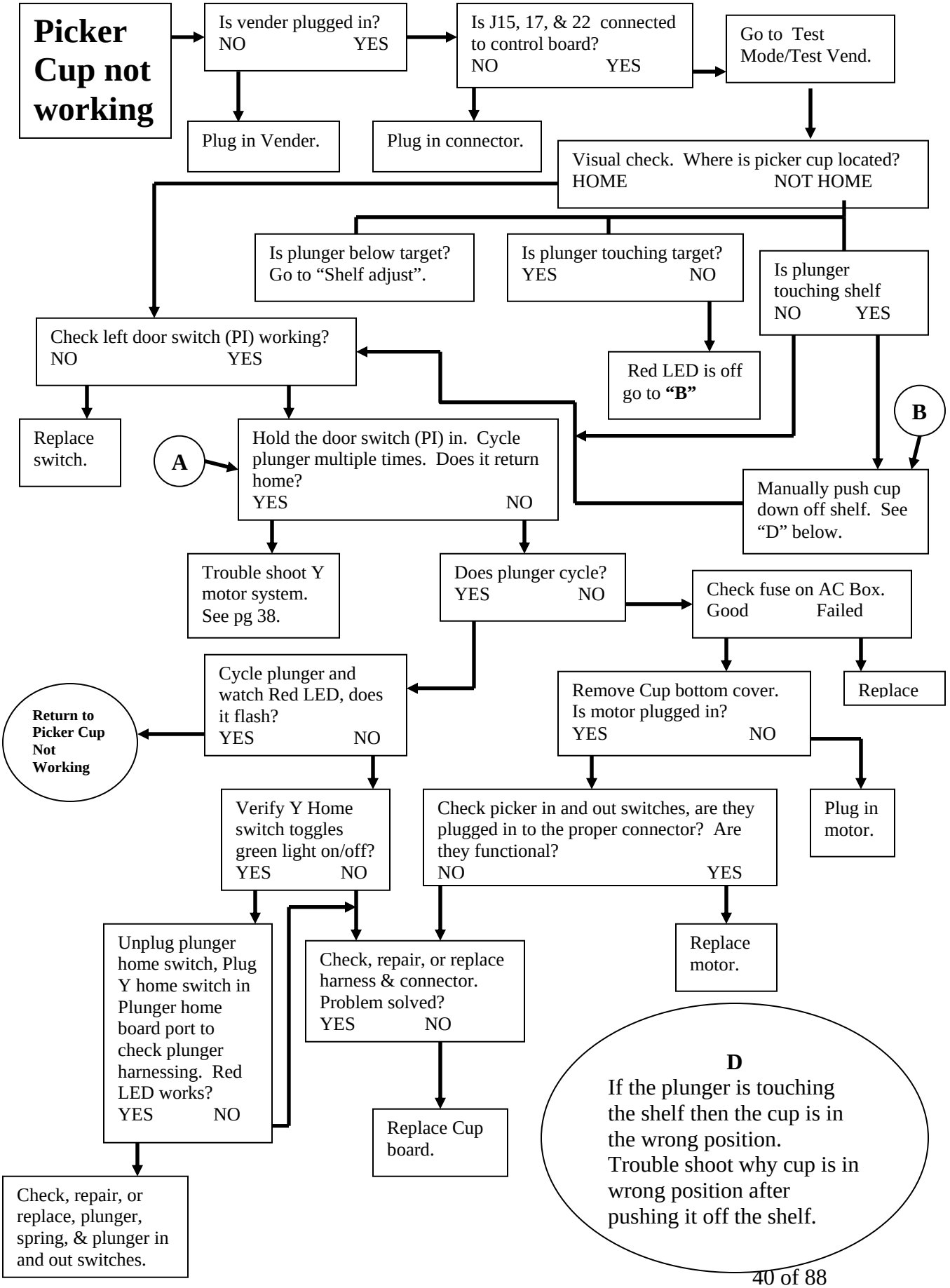

XY not working
Is vender plugged in?
NO YES
Plug in Vender.
Is J10 connected to control board?
NO YES
Go to Test Mode/Test Vend.
Plug in connector.
Visual check. Where is picker cup located?
HOME NOT HOME
Check door switch working?
NO YES
Manually move XY to HOME position.
RED light is (plunger home)
ON OFF
Replace switch.
Hold the door switch (PI) in.
Red Light Plunger Home See page 36
In position test are the Red, Yellow, & Green LED's on control board illuminated (X, Y, & plunger home)?
YES NO
Visually confirm plunger in home position
YES NO
Refer to Picker Cup TS See pg 40
Do the Encoder counts increase & decrease when moving the XY manually?
YES NO
Does XY move to HOME position when the motor bypass switch was held in?
YES NO
Red light = Plunger Home. See page 36
Yellow light = X Axis Home. See page 37
Green light = Y Axis Home. See page 38
Is fuse in AC Box is good?
NO YES
Check harnesses & connections to J15, 16, 17, 22, & 24 at control board are good?
YES NO
Do a test vend with door closed. Works
NO YES
Replace
Check Motor by swapping X & Y motors.
YES NO
Plug in or replace as needed.
See Port Door trouble shooting pg 38.
Check, repair, replace harness. Problem solved?
NO YES
Change Control Board.
Change failed Motor.


Plunger Home = Red light
ON OFF
Check X Home = Yellow light.
Visual check. Where is picker cup located?
HOME NOT HOME
In DN Factory Diagnostics Column Diag test press "5" key to cycle plunger. Is Red LED on (plunger home)?
YES NO
Cycle plunger multiple times to ensure proper operation.
If Plunger is stuck in the out or in position.
Refer to Picker Cup Troubleshooting or replace Cup Assembly.
See page 40, 41, 42

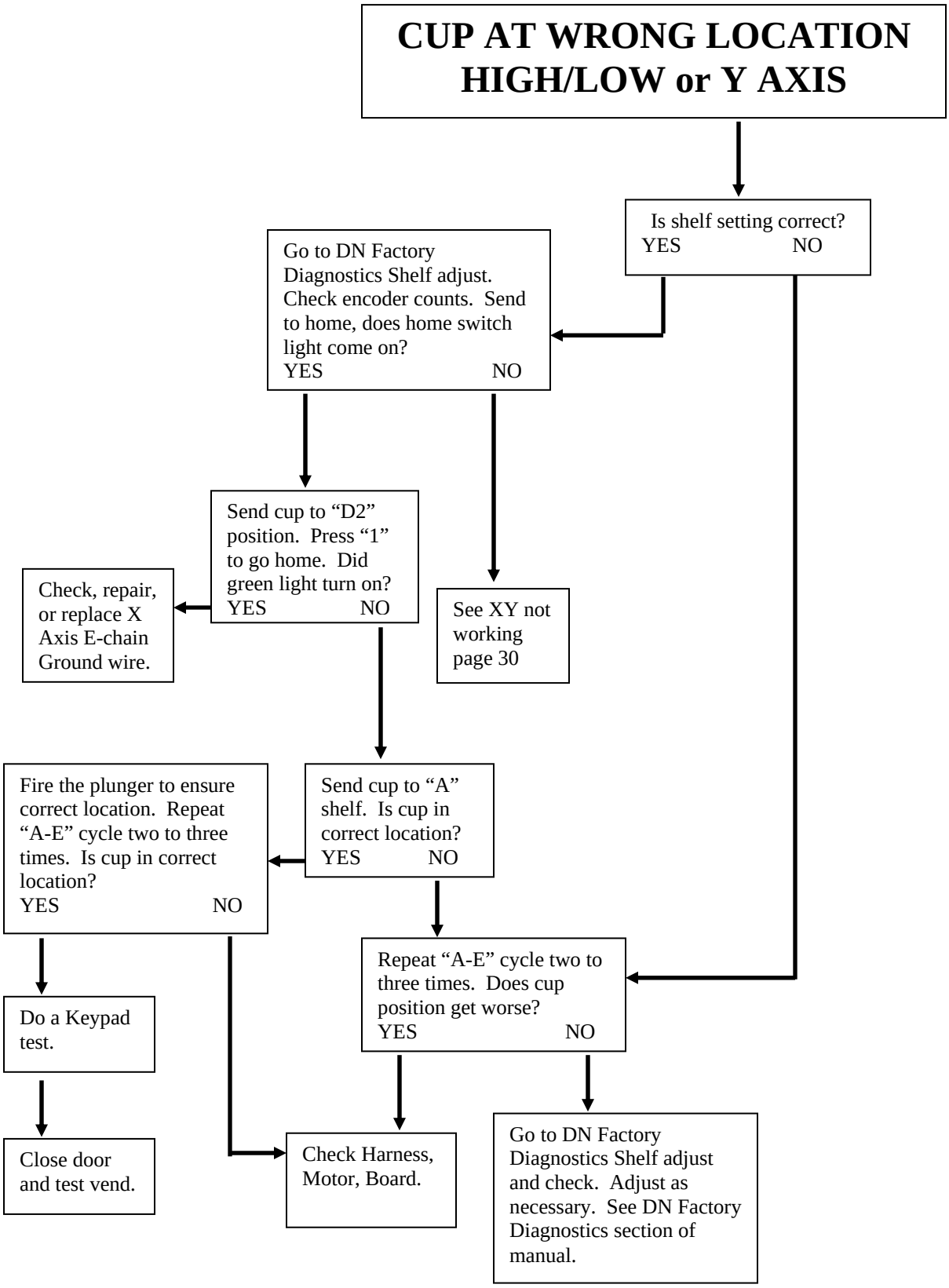

X Axis Home = Yellow light
ON OFF
Does the Vend Mech move in the downward position? Check Y Home = Green Light
Manually activate the switch and light cycles on and off.
YES NO
Manually move cup to A9 and hold the door switch (PI) in.
Check, repair, or replace switch or harness. Problem solved?
YES NO
Picker Cup goes to the home position?
YES NO
Does motor run?
YES NO
Check motor bypass switch.
Is the Yellow LED on?
YES NO
Do a Vend Test with Door Closed.
Check belt and pulley.
Check, repair, replace harness. Problem solved?
YES NO
Check the Y motor & E-Chain harnesses. Harness connections good?
YES NO
Check & replace motor. Problem solved?
YES NO
Check the motor interface board and verify all harnesses are plugged in
"Check the XY alignment, will the vend mech move in the alignment menu?
NO YES
Replace control board.


Y Axis Home = Green light
ON OFF
Check All Home LED's are on.
Manually activate the switch and light cycles on and off.
YES NO
Manually move cup to A9 and hold the top left door switch (PI) in.
Check, repair, or replace switch or harness. Problem solved?
YES NO
Picker Cup goes to the home position?
YES NO
Replace motor interface board.
Does motor run?
YES NO
Do a Vend Test with Door Closed.
Is the Green LED on?
YES NO
Check belt and pulley.
Check, repair, replace harness. Problem solved?
YES NO
Check the motor bypass switch. Is the switch functional?
YES NO
Check & replace motor. Problem solved?
YES NO
Check motor bypass harness connection to the control board. Connection OK?
NO YES
Replace switch
Replace control board.
Replace the harness.

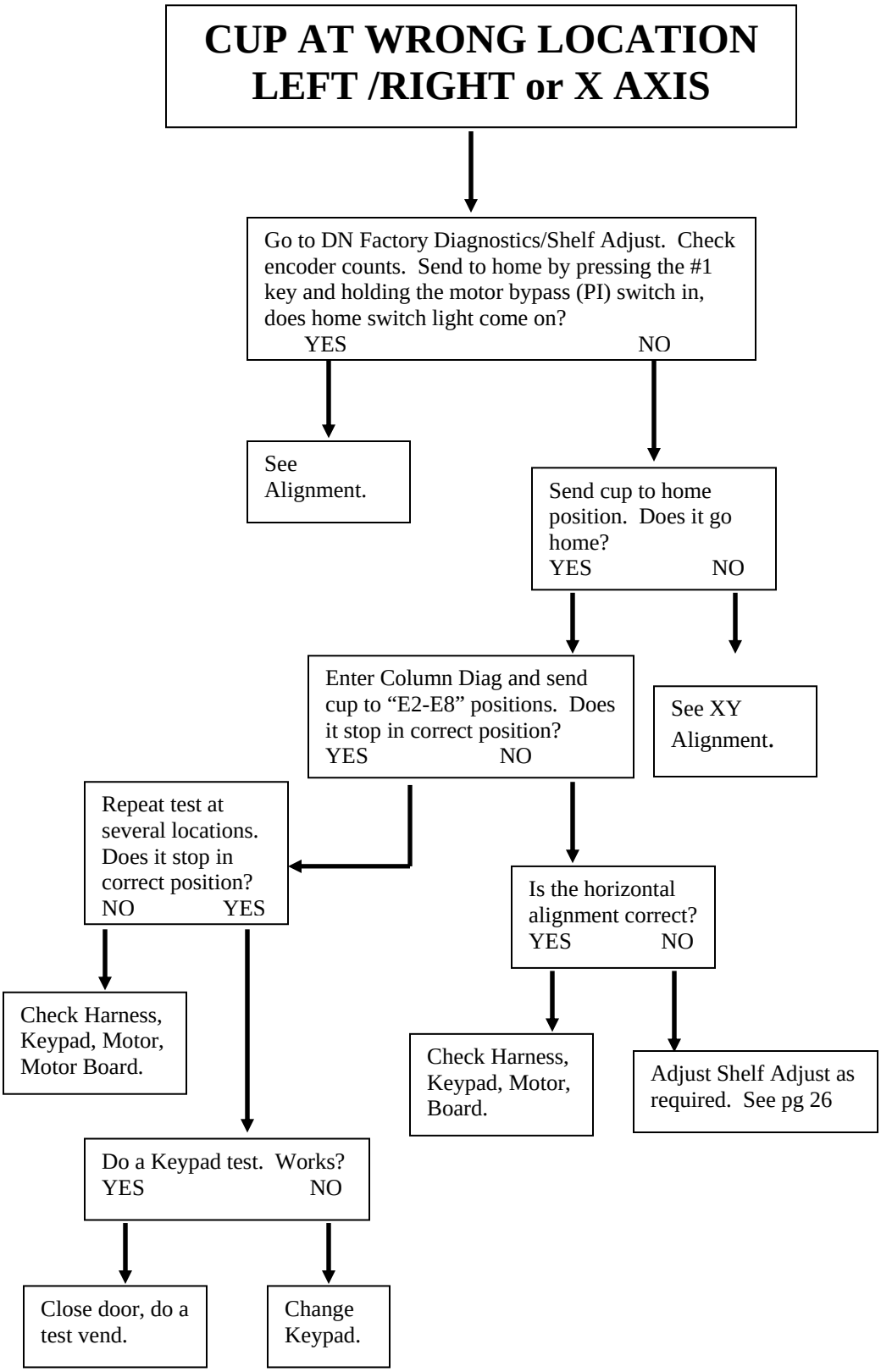

XY Slams to Top/ Right 0r Left
NO YES
Do a test vend with door closed.
Go to Diagnostics
Enter DN Factory Diagnostics Shelf adjust and set the shelf offset. Do the encoder counts change?
YES NO
Enter thr DN Factory Diagnostics Alignment menu, will the vend mech move to the D2 position?
NO YES
Hold the motor bypass switch in.
Press the "4" key. Picker Cup goes to the A5 position?
YES NO
Back to top.
Check, repair, replace harness. Problem solved?
YES NO
Finish Alignment test.
Enter DN Factory Diagnostics Column Diag menu and press key "5". Does the picker cycle?
YES NO
Check, replace motor as needed. Problem solved?
NO YES
Run Y axis "A to E" & X axis "2 to 7" five times each. Does Picker Cup stop in correct position?
YES NO
Check for Green & Yellow LED's. If on go to appropriate Trouble Shooting Pages. If off
Check the picker in and out switches and repair. Vend mech functional?
NO
Replace control board.
Do a vend test with door closed.
While running does the Green LED dimly light & flicker?
YES NO
Check ground wire on Y motor is connected.
YES NO
Check, repair, or replace Y axis ground wire.
Encoder is bad replace motor.
Connect.


Picker Cup not working
Is vender plugged in?
NO YES
Plug in Vender.
Is J15, 17, & 22 connected to control board?
NO YES
Plug in connector.
Go to Test Mode/Test Vend.
Visual check. Where is picker cup located?
HOME NOT HOME
Is plunger below target?
Go to "Shelf adjust".
Is plunger touching target?
YES NO
Red LED is off go to "B"
Is plunger touching shelf
NO YES
Check left door switch (PI) working?
NO YES
Replace switch.
A
Hold the door switch (PI) in. Cycle plunger multiple times. Does it return home?
YES NO
B
Manually push cup down off shelf. See "D" below.
Trouble shoot Y motor system. See pg 38.
Does plunger cycle?
YES NO
Check fuse on AC Box.
Good Failed
Replace
Cycle plunger and watch Red LED, does it flash?
YES NO
Return to Picker Cup Not Working
Remove Cup bottom cover. Is motor plugged in?
YES NO
Plug in motor.
Verify Y Home switch toggles green light on/off?
YES NO
Check picker in and out switches, are they plugged in to the proper connector? Are they functional?
NO YES
Replace motor.
Unplug plunger home switch, Plug Y home switch in Plunger home board port to check plunger harnessing. Red LED works?
YES NO
Check, repair, or replace harness & connector. Problem solved?
YES NO
Replace Cup board.
Check, repair, or replace, plunger, spring, & plunger in and out switches.
D
If the plunger is touching the shelf then the cup is in the wrong position. Trouble shoot why cup is in wrong position after pushing it off the shelf.

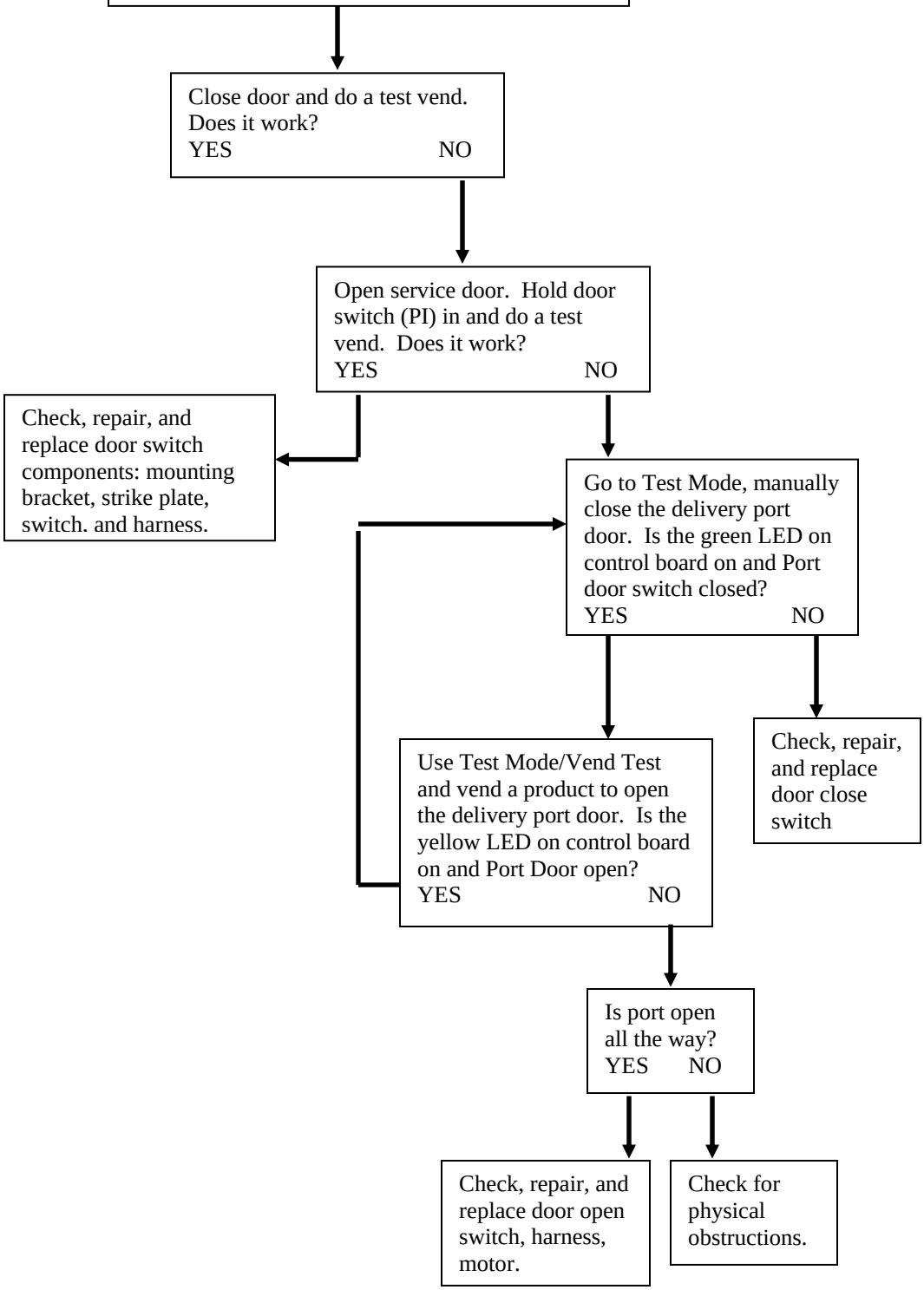
CUP AT WRONG LOCATION HIGH/LOW or Y AXIS



CUP AT WRONG LOCATION LEFT /RIGHT or X AXIS



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



COIN ACCEPTANCE ISSUES

PROBLEM	CAUSE	FIX
Coins Returned to Customer With No Credit Issued	1. Price set to zero. 2. Coin Jam in Mech 3. Flight Deck Dirty 4. No Power to Mech 5. Coin Return Lever Activated 6. Vender in Test Mode 7. Not Available Time Set 8. Defective Coin Mech	1. Set price in programming. 2. Clear Jam and Test 3. Clean Flight Deck 4. Check Harness, Changer to VCU 5. Adjust Coin Return Lever 6. Close Service Door 7. Disable Not Available Time 8. Replace Mech
Will Not Payback Coins	1. No Power to Mech 2. Harness not plugged in control board. 3. No Coins in Tubes 4. Tubes Programmed Incorrectly (4 Tube Mech) 5. Defective Coin Mech	1. Check / Replace MDB Harness 2. Plug in harness. 3. Fill Coin Tubes with Coins 4. Reprogram per Manufacturer Recommendation 5. Replace Coin Mech

DOLLAR BILL ACCEPTANCE ISSUES

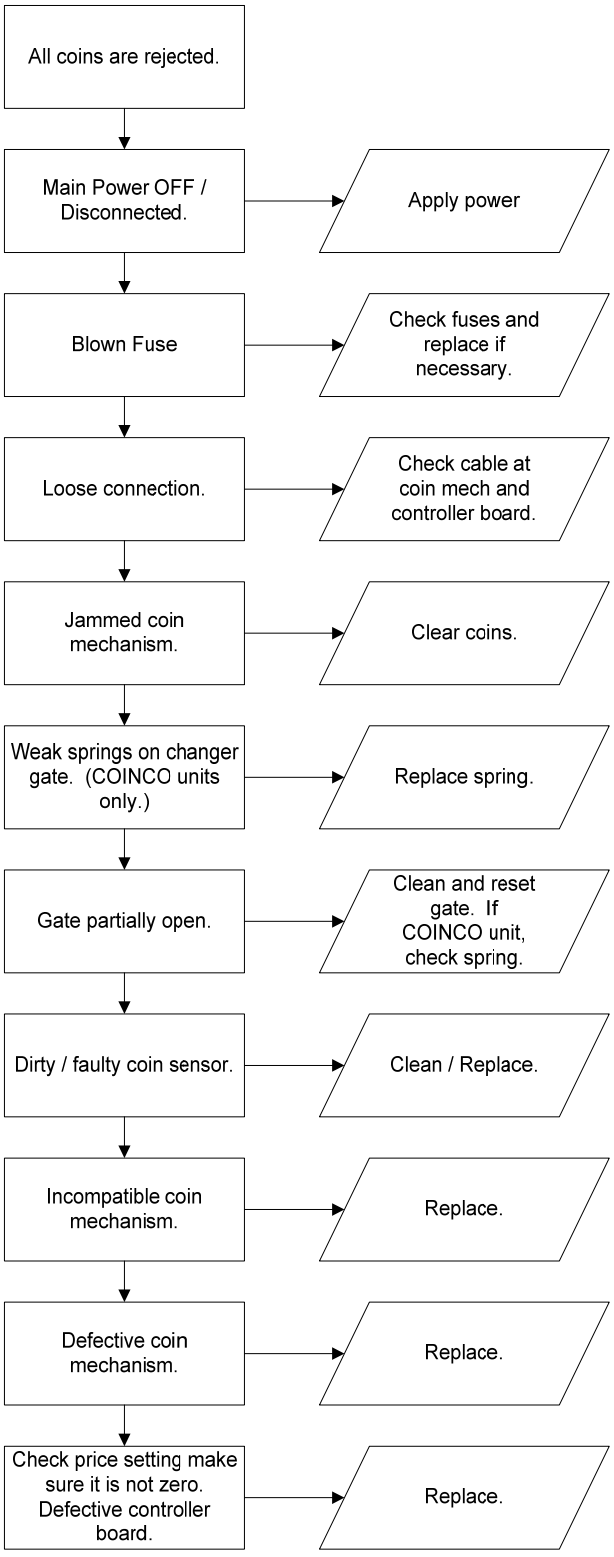
PROBLEM	CAUSE	FIX
Bill Validator will not run.	Prices / tube cash conditions.	Check Mech Tubes.
Takes Bill in Then Rejects it		Check Validator or Replace
Stacks Bill While in Escrow Mode	Max Price Not Yet Reached	
Bill Error Listed in Test Mode	Communication Error with Bill Validator. Bill Validator Reported Error.	
Takes Bill, Gives No Credit	Harness, Validator, Board	Check or Replace Validator Harness, Replace Board

CONTROL BOARD (VMC)

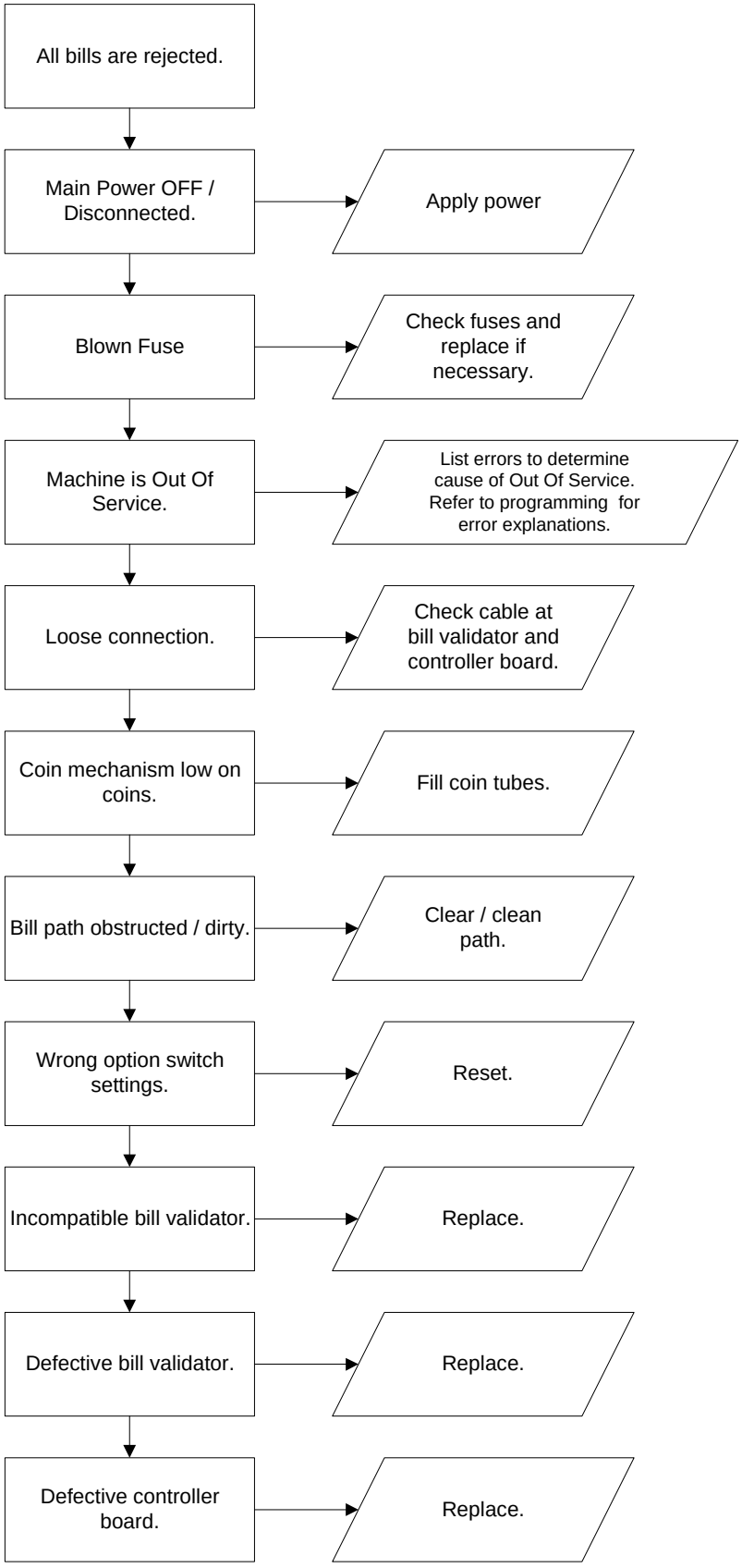
PROBLEM	CAUSE	FIX
No Power to Controller.	AC Box	Replace AC box.
Out of Order or other error codes showing on display	RAM Error	Refer to Programming Section on page ## for specific error codes and cures.
No Sales Available	No Vendable Selections	Check StS programming

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

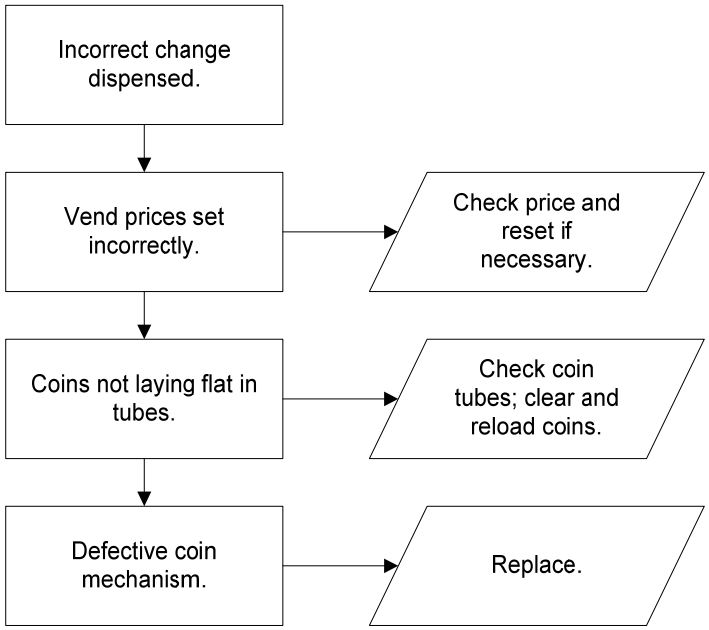
ALL COINS ARE REJECTED



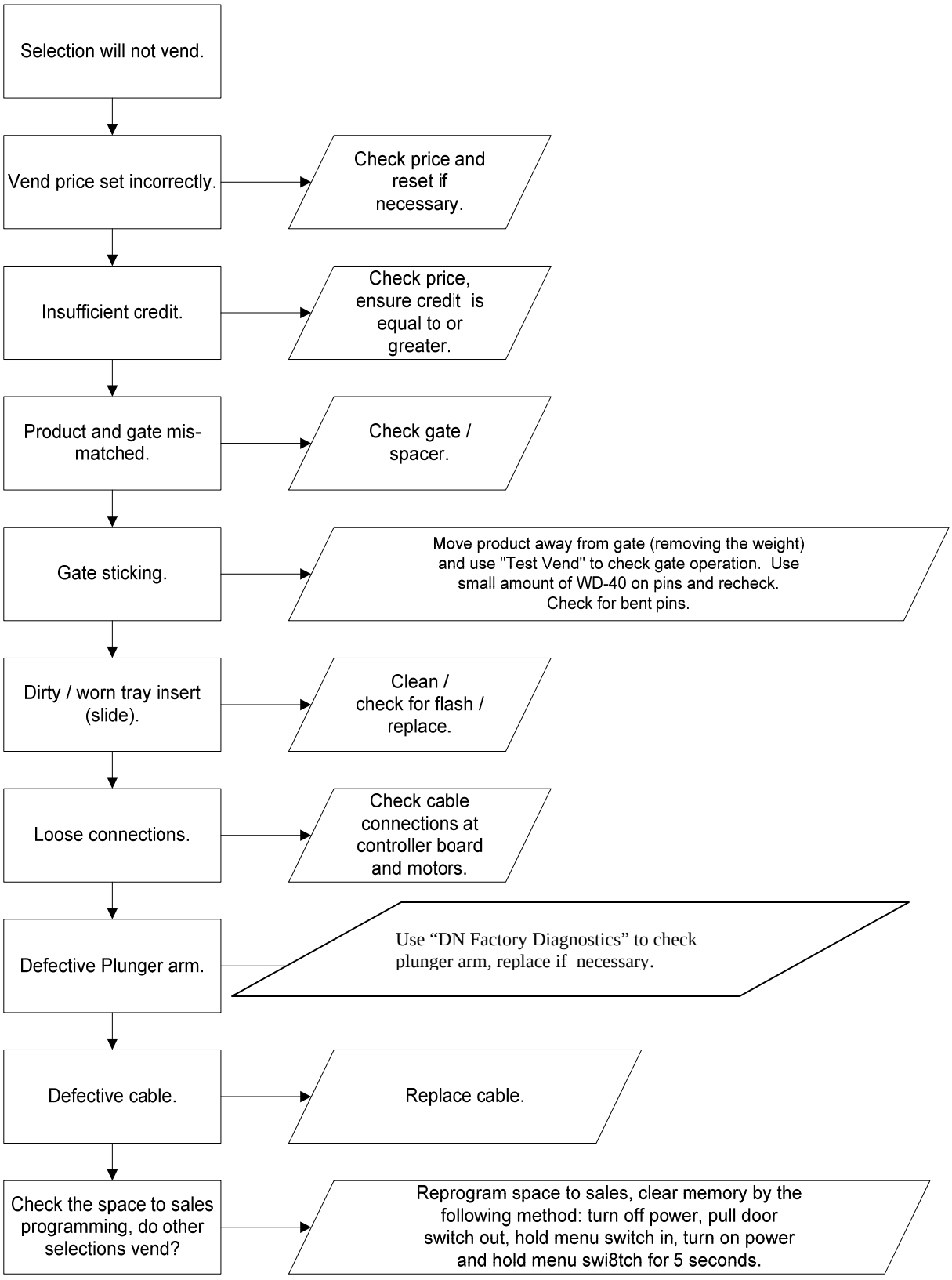
ALL BILLS ARE REJECTED



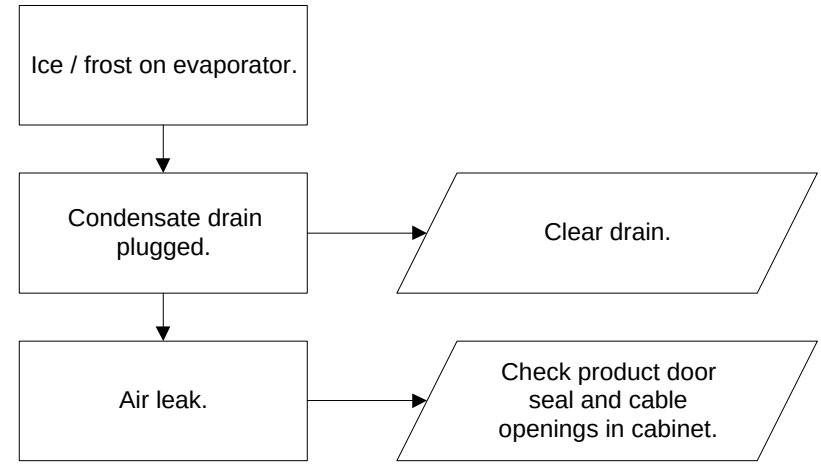
INCORRECT CHANGE DISPENSED



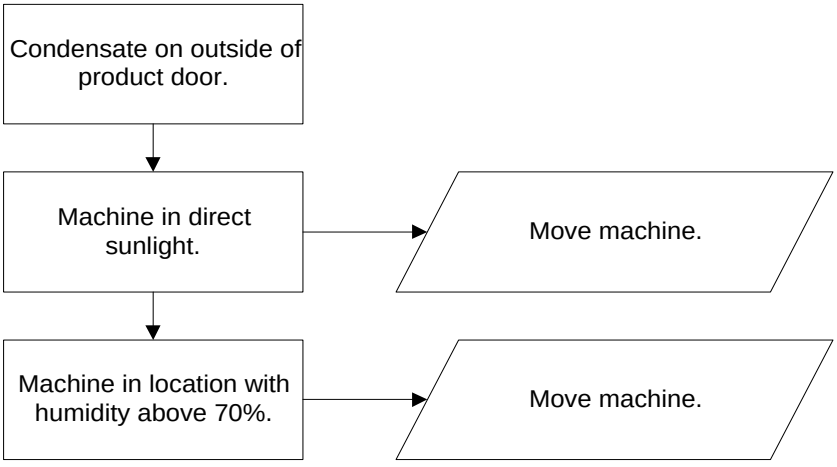
SELECTION WILL NOT VEND



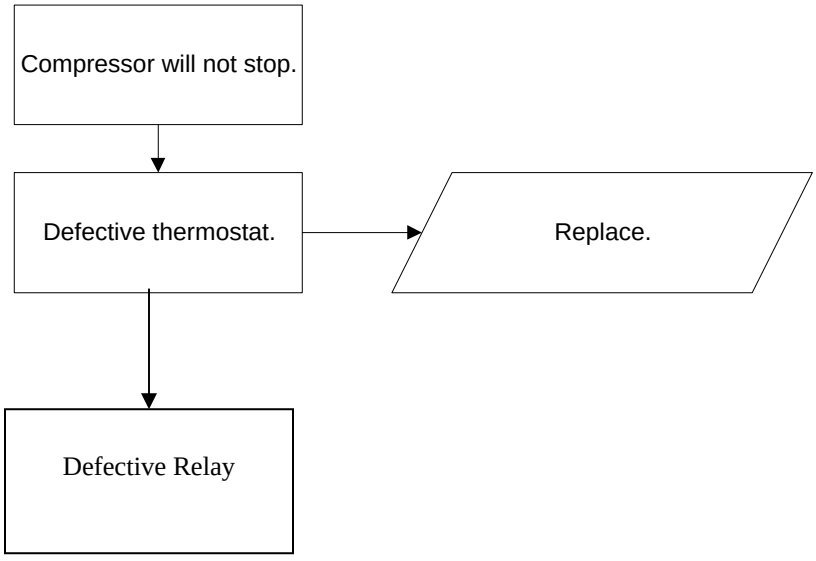
ICE / FROST ON EVAPORATOR



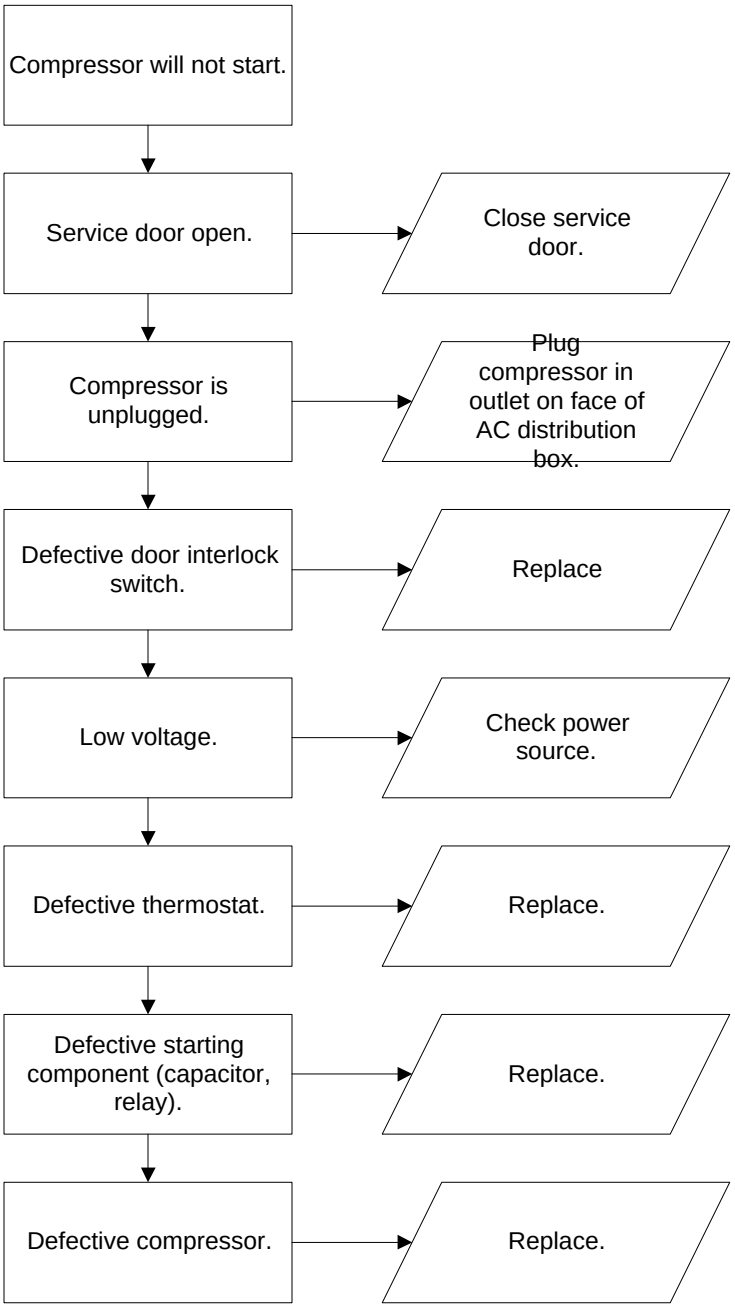
CONDENSATE ON OUTSIDE OF PRODUCT DOOR



COMPRESSOR WILL NOT STOP

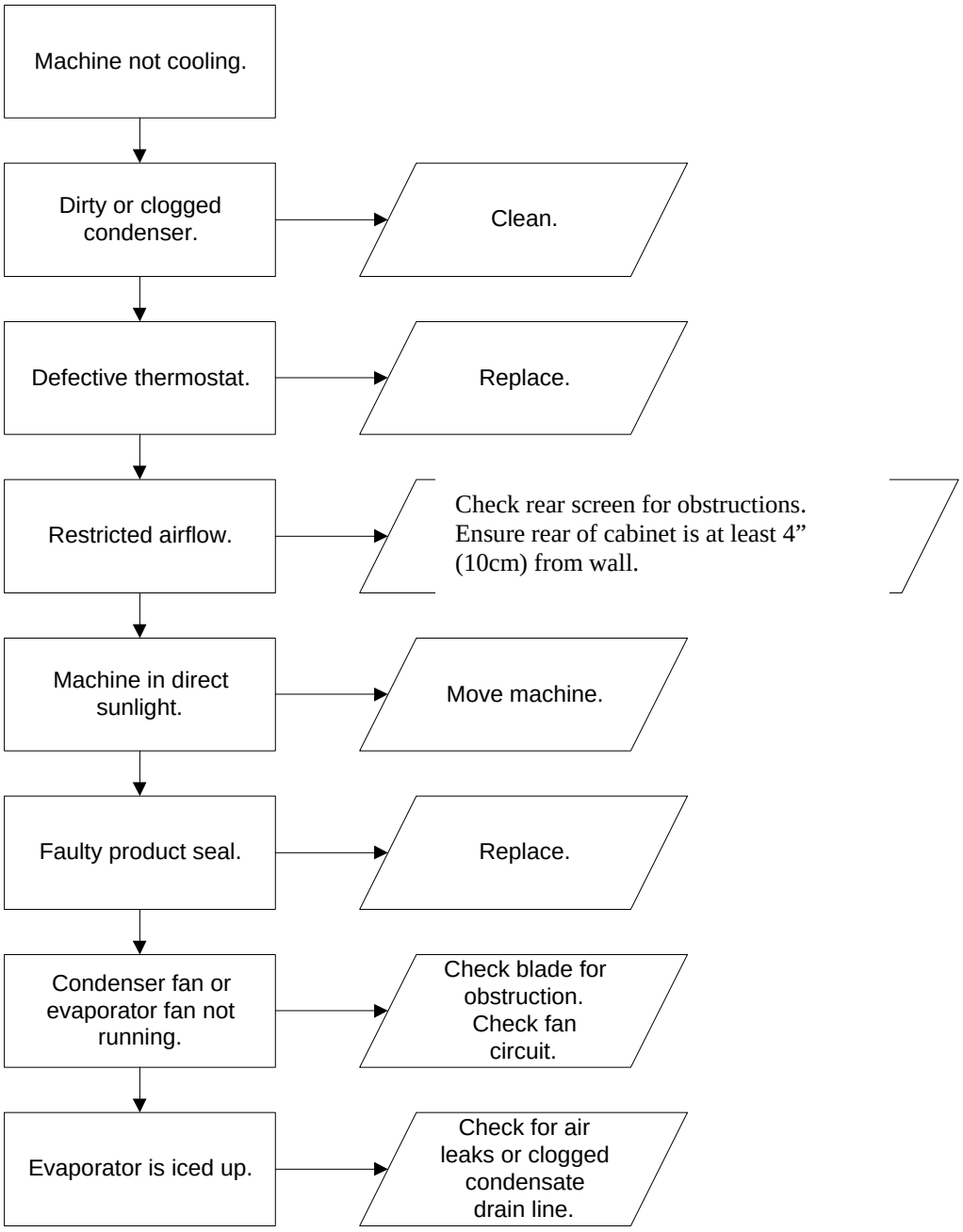


COMPRESSOR WILL NOT START

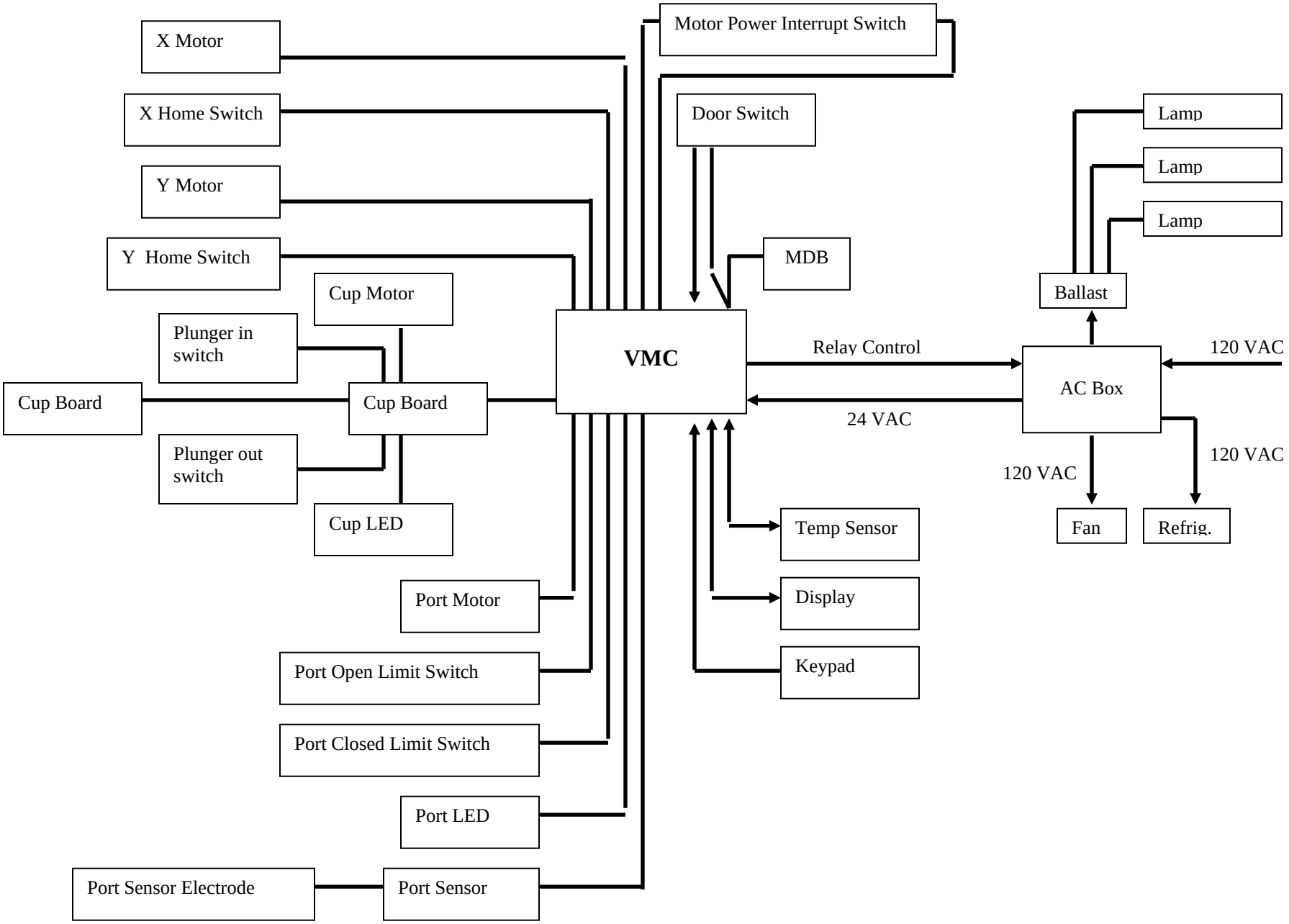


Troubleshooting Tip: **Use a short 15 Amp extension cord and plug the compressor directly into the wall outlet. This will bypass the AC distribution box. Note: For Testing Purposes Only.**

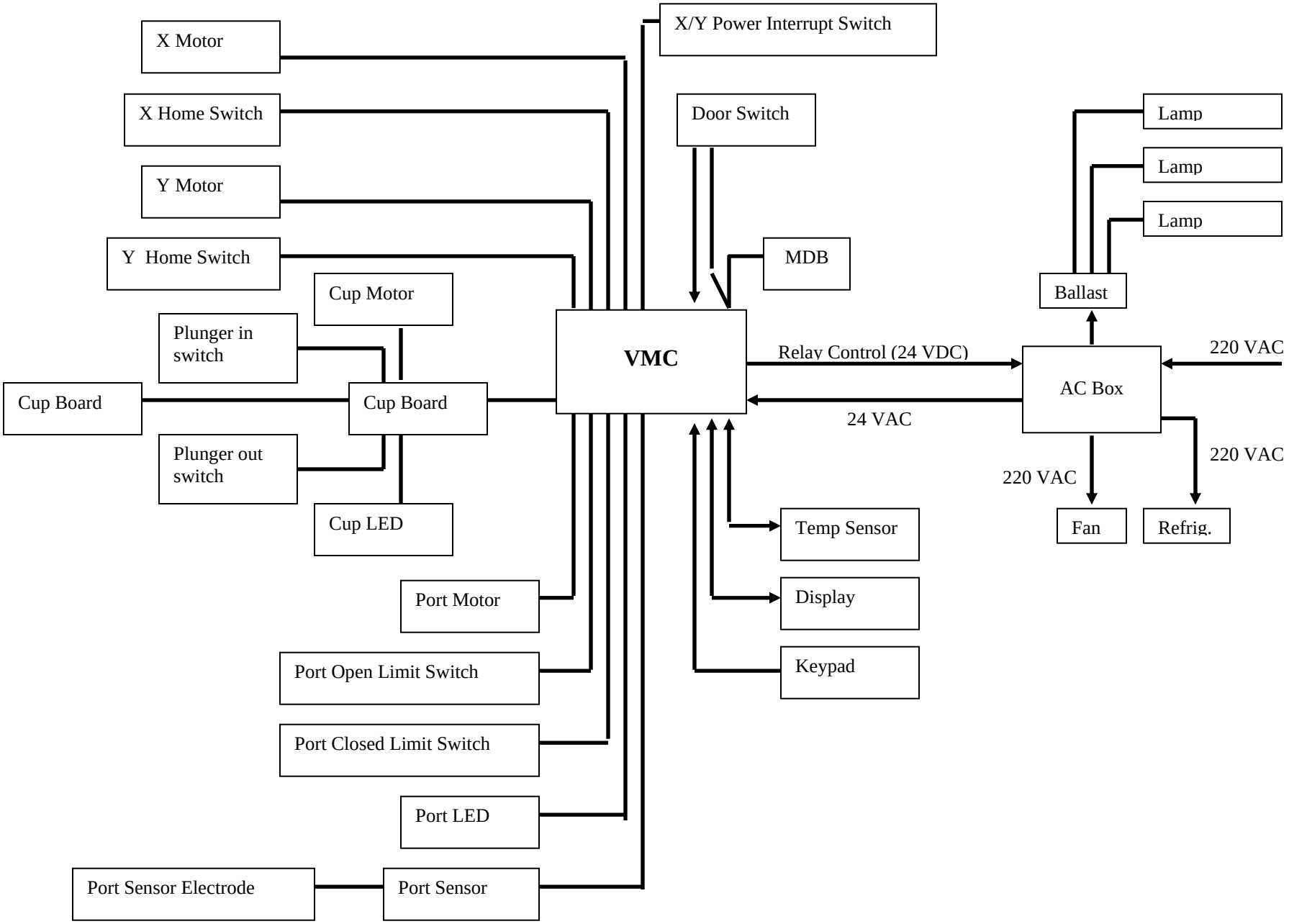
MACHINE NOT COOLING



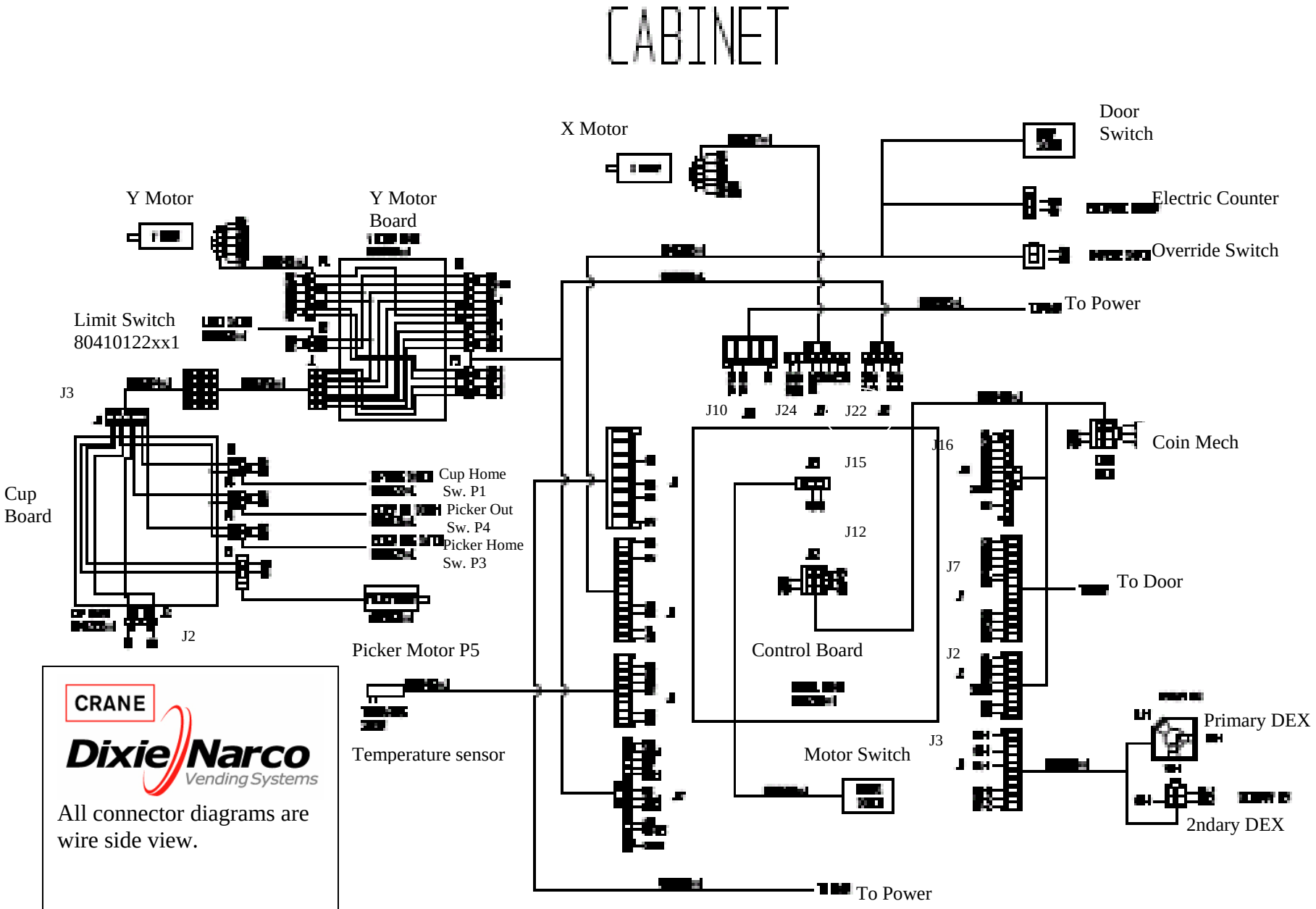
BevMax 3 Domestic Block Diagram



BevMax 3 Export Block Diagram



BevMax 3 Cabinet Diagram (Domestic)

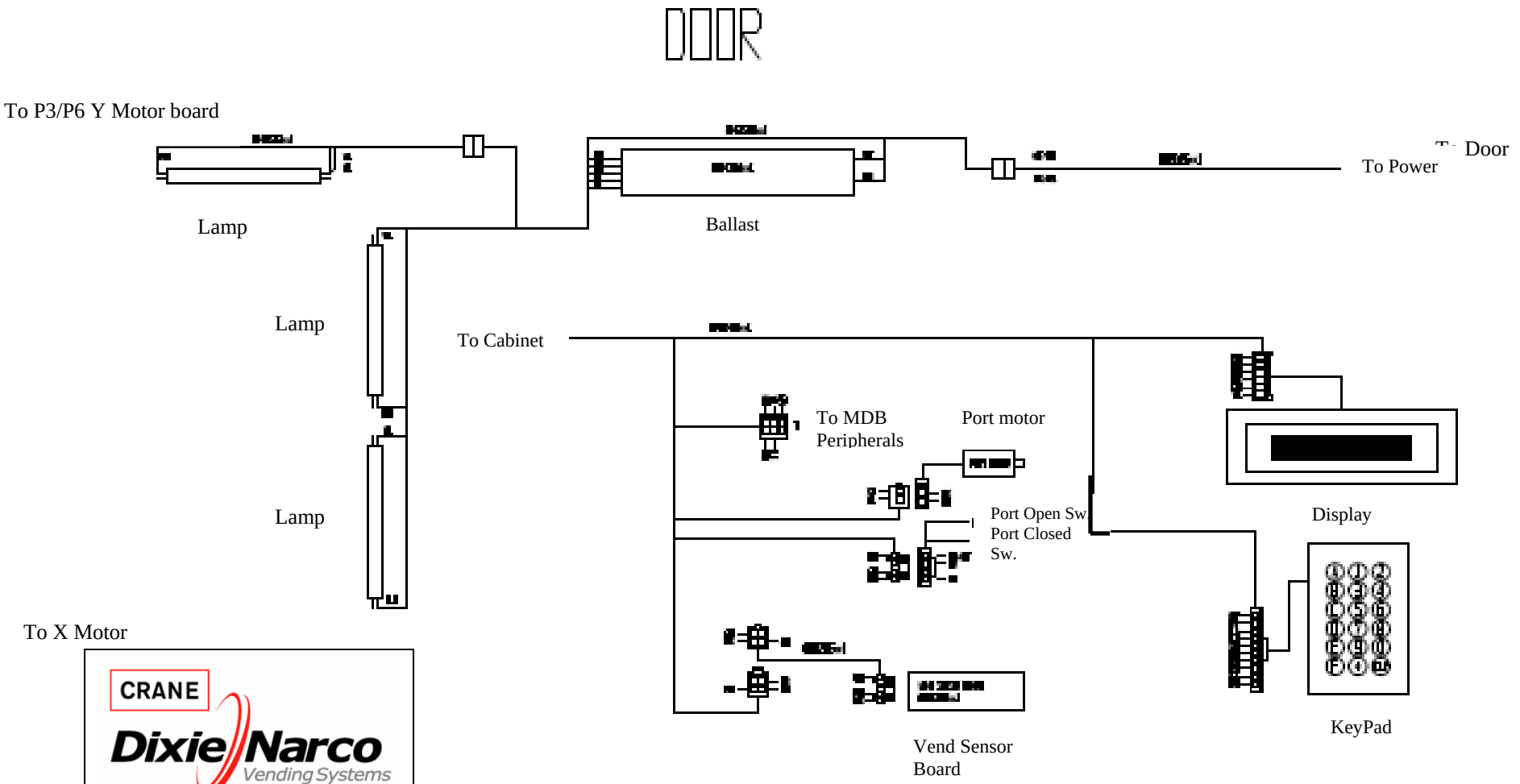


CRANE

Dixie Narco Vending Systems

All connector diagrams are wire side view.

BevMax 3 Door Diagram (Domestic)

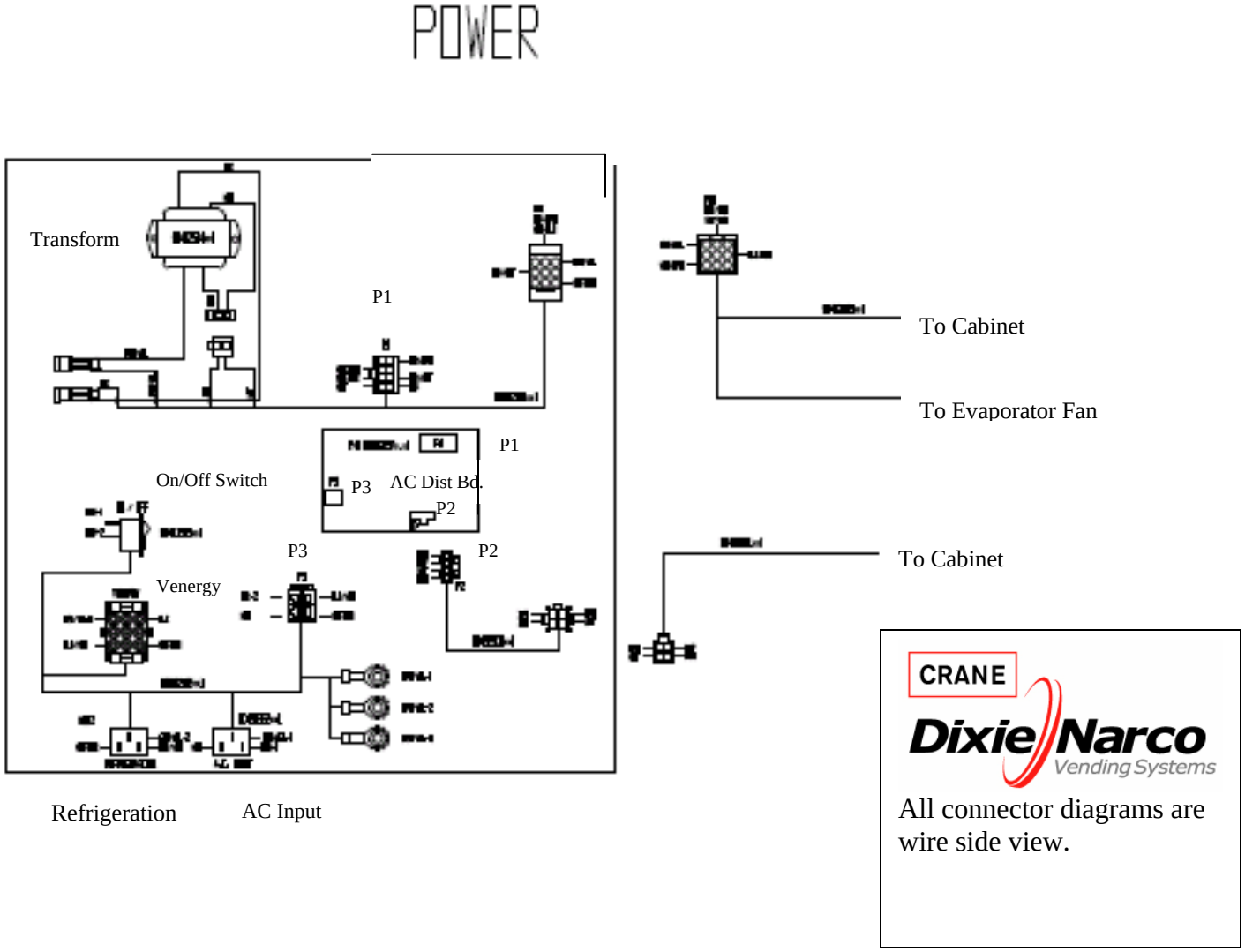


CRANE

Dixie Narco Vending Systems

All connector diagrams are wire side view.

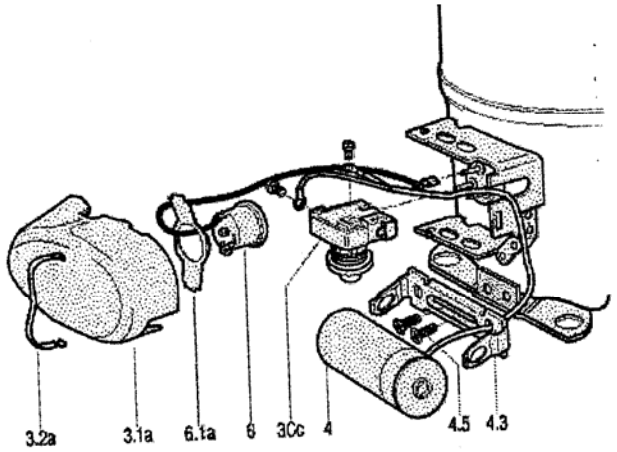
BevMax 3 Domestic Power Diagram



CRANE

Dixie Narco Vending Systems

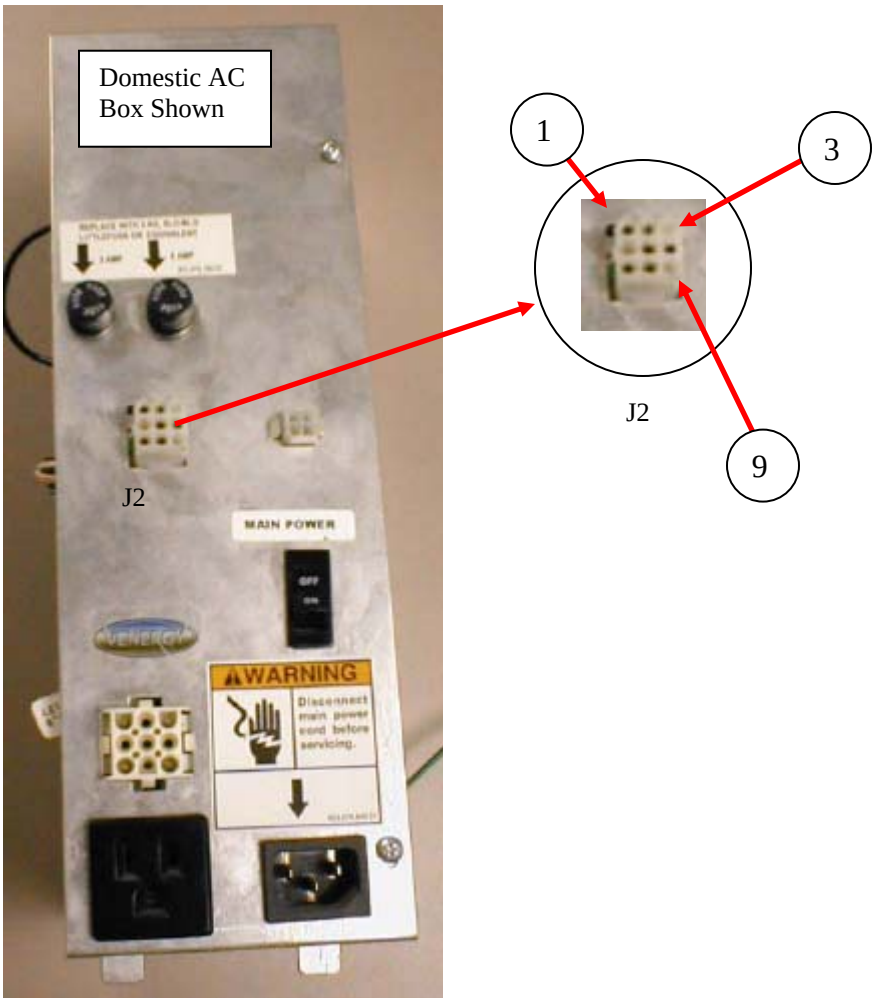
All connector diagrams are wire side view.



th Capacitor Connections

3.1a		Cover
3.2a		Cover Spring
4		Start Capacitor
4.3		Capacitor Clamp
4.4		Capacitor fixing bracket
4.5		M5 Self-tapping Screw
6		Overload Protector
6.1a		Overload Spring

BevMax 3 Compressor Parts Diagram



AC TEST VOLTAGES			
Between Pins		Domestic Reading	Export Reading
1	2	24 VAC	24 VAC
4	9	24 VAC	24 VAC
5	7	115 VAC	220 VAC
6	8	115 VAC	220 VAC

AC DISTRIBUTION BOX, J2 VOLTAGES

PARTS LIST

PARTS LIST AND DIAGRAMS.....59– 88
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Service Door Inside.....72 – 73
Gate Tray Detail.....74 – 75
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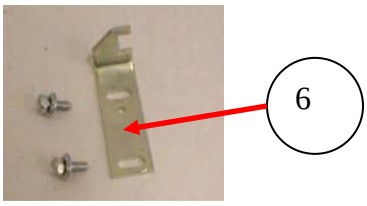
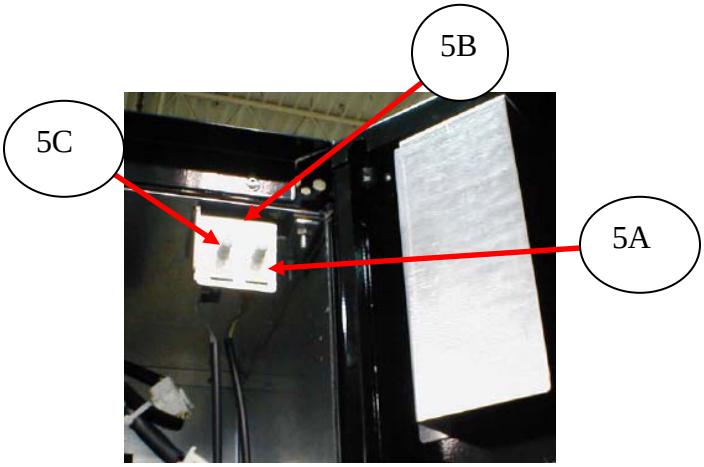
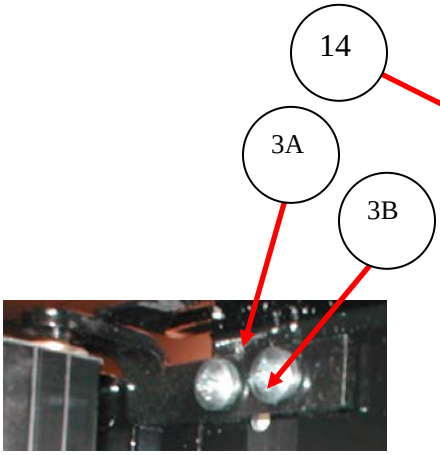
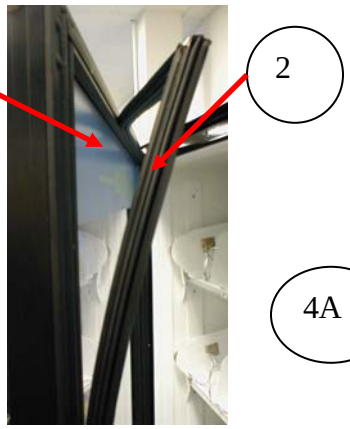
Lighting.....78
Refrigeration Unit Fin & Tube Condenser.....79 – 80
Electronics.....81
Harnesses.....82 – 83
Labels / Decals / Misc.....84
Screws & Nuts.....85 – 86
Washers, Bolts, & Misc. Hardware.....87 – 88

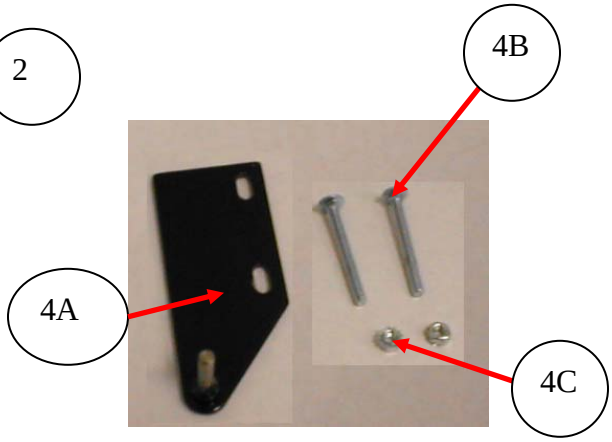
MACHINE FRONT VIEW

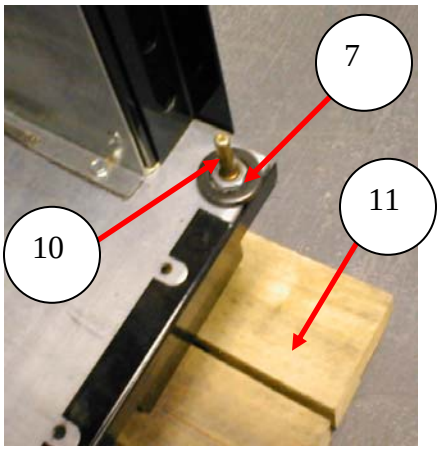


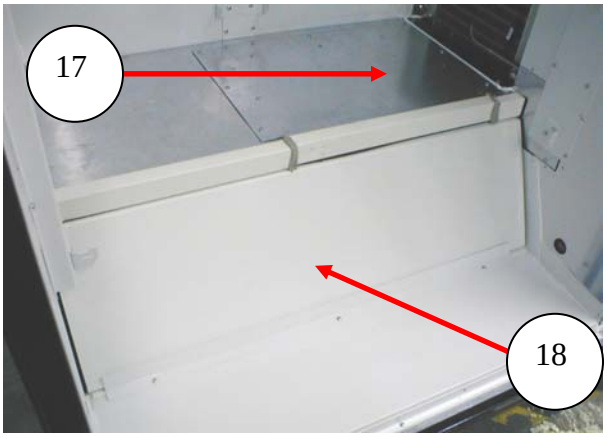










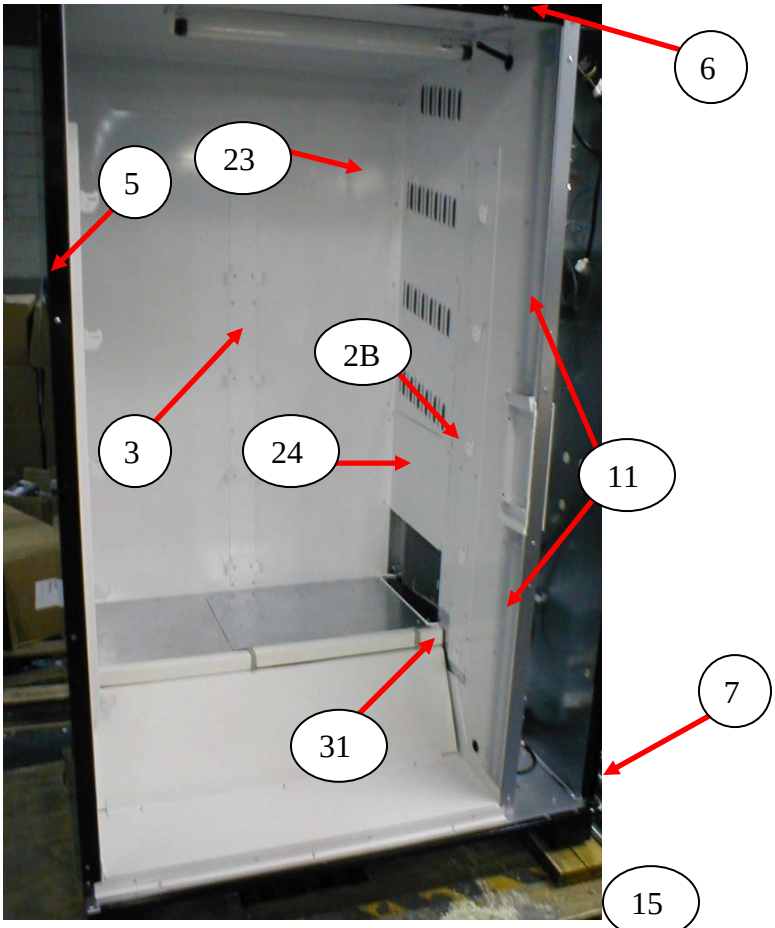


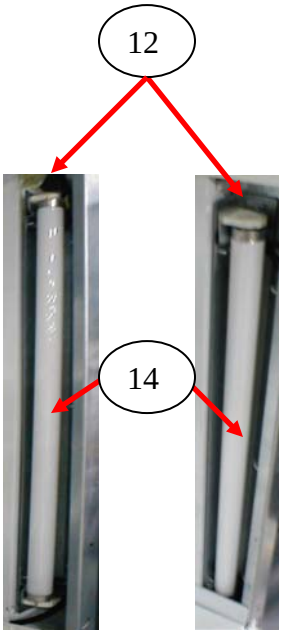
MACHINE FRONT VIEW

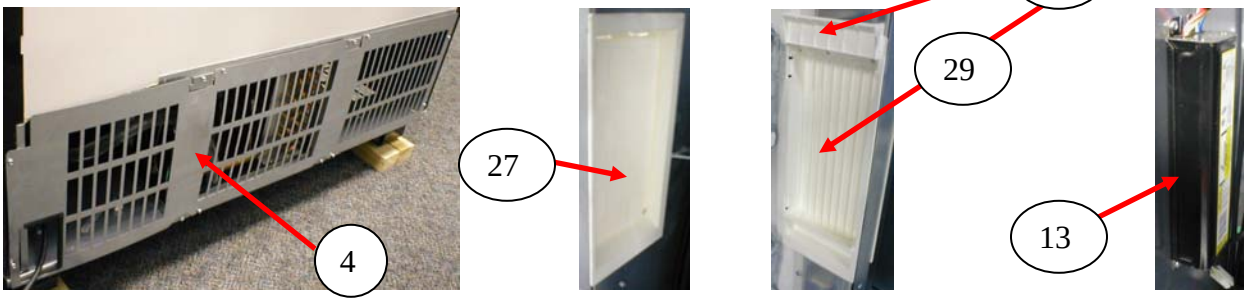
ITEM	PART DESCRIPTION	DN5800
1	Door Assembly, Glass	800,102,53x.x1
2	Gasket, Glass Door	800,102,58x.x1
3A	Top Hinge Glass Door	801,307,93x.x1
3B	Screw, Top Hinge Glass Door	800,304,46x.x1
4A	Top Hinge Service Door (All)	801,307,94x.x1
4B	Carriage Bolt, 1/4 –20 X 2.5”	800,202,49x.x1
4C	Hex Nut, 1/4-20	800,801,57x.x1
5A	Door Switch	804,101,77x.x1
5B	Door Switch & Door Stop Bracket – Double Switch	647,000,69x.x3
5C	Power Interrupt Switch 10AMP	804,101,59x.x1
6	Latch, 2-Point Lock	647,070,88x.x3
7	Anti Vandal Sleeve Bottom Service Door	800,903,24x.x1
8	Leg Assembly, Steel, Formed	801,305,65x.x1
9	Leg Leveler, 5/8 – 11 x 2 1/16	800,503,79x.x1
10	Bottom Hinge, Service Door	800,503,76x.x1
11	Shipping Boards	805,410,94x.x1
12	Bottom Skirt	TBD
13	Thermometer	801,401,55x.x1
14	Wear Strip Door Decal	803,878,37x.x1
15	Glass Door Bottom Hinge	801,307,75x.x1
16	Bearing, Top Hinge Plate (Service Door)	626,030,34x.x3
17	Shelf Plug Assembly	647,061,20x.x3
18	Assembly Panel Slanted	647,061,60x.x3
19	Door Stop	647,000,45x.x3

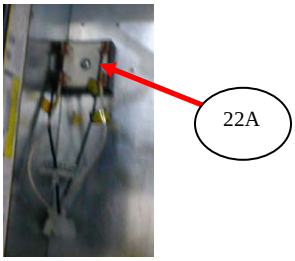
Part numbers & descriptions are subject to change with out notice.
NA = Not applicable TBD = To be determined RB = Replaced by

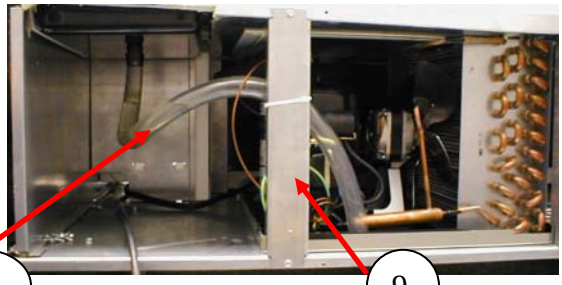
CABINET DETAIL PRODUCT AREA









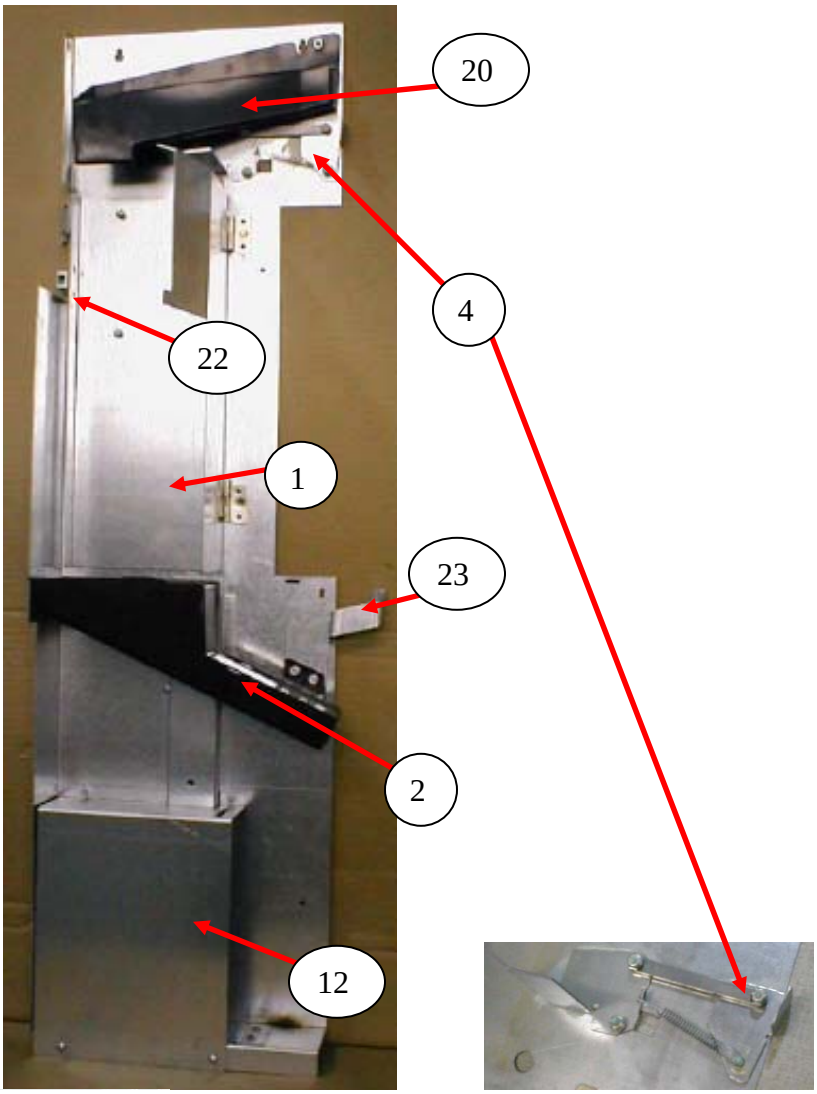


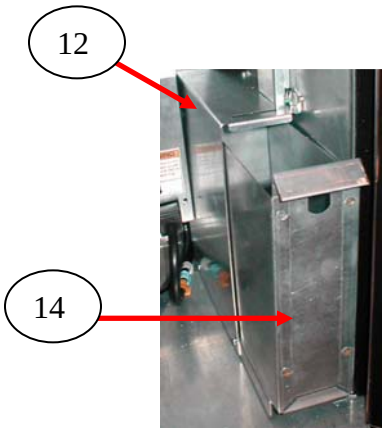
CABINET DETAIL PRODUCT AREA

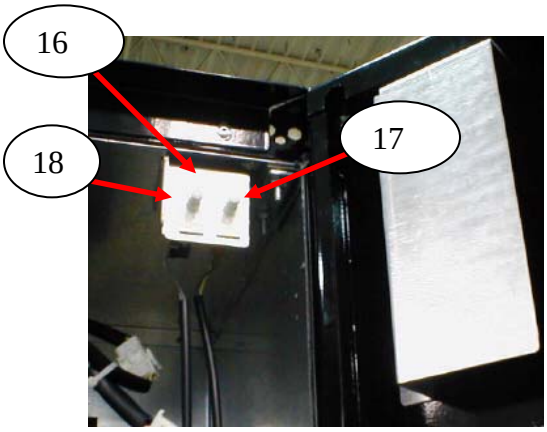
ITEM	PART DESCRIPTION	DN5800
1	Cabinet Assembly	647,021,20x.x3
2A	Left Tray, BevMax 3 Mount Bracket	647,070,05x.x3
	Left Tray, BevMax 3 Rail	647,070,72x.x3
2B	Right Tray, BevMax 3 Mount Bracket	647,070,04x.x3
	Right Tray, BevMax 3 Rail	647,076,00x.x3
3	Rear Tray Support Bar, BevMax 3	647,070,69x.x3
	Rear Tray Mount Bracket	647,070,03x.x3
4	Ingress Guard	801,823,32x.x1
5	Security Angle, Left	647,060,07x.x3
6	Security Angle, Top	647,060,06x.x3
7	Security Angle, Right	627,020,12x.x3
8	Service Door Security Angle (refer to Service Door Page)	647,050,04x.x3
9	Brace, Rear Base Plate	647,020,22x.x3
10	Tray Support Screw #8-18x1/2 Phil Pan (Self drilling)	800,304,18x.x1
11A	Lens Fluorescent Lamp Vertical Top 28.35	801,603,05x.x1
11B	Lens Fluorescent Lamp Vertical Bottom 23.938	801,603,06x.x1
12A	Lamp Holder, T8 Bi-Pin Leviton 23652 (Vertical)	804,920,62x.x1
12B	Lamp Holder, T8 Bi-Pin Leviton 23653 (Horizontal)	TBD
13	Assembly, Ballast 120V/60Hz Electronic (Advance) T8	804,400,61x.x1
14	Lamp, Fluorescent T8 2’ OS#21718/Philips#382168 – F17T8/TL865	804,700,77x.x1
15	Lamp Cover, Top Horizontal	801,819,89x.x1
16	Evaporator Drain Pan Assembly	622,041,20x.x3
	Evaporator Drain Pan	801,813,48x.x1
17	Drain Tube	801,817,41x.x1
18	Evaporator Fan Assembly (115V) – EBM Papst 5 blade	647,052,10x.x3
19	Evaporator Fan, 58mm ECM – EBM Papst 5 blade	804,501,48x.x1
20	Evaporator Fan Harness EBM Papst	804,924,67x.x1
21	Evaporator Fan Shroud EBM Papst	647,050,33x.x3
22A	Choke	804,926,92x.x1
22B	Harness, Fan Choke Extension	804,922,77x.x1
23	Louver Panel	647,070,09x.x3
24	Evaporator Bottom Access Panel	627,051,30x.x3
25	Top Hinge Glass Door	801,307,93x.x1
26	Assembly Discharge Frame	801,819,94x.x1
27	Discharge Back Frame	801,819,95x.x1
28	Discharge Frame	801,819,96x.x1
29	Discharge Door	801,819,97x.x1
30	Discharge Door Magnet	804,101,05x.x1
31	Evaporator Line Cover	647,000,49x.x3

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

CABINET DETAIL SERVICE DOOR AREA





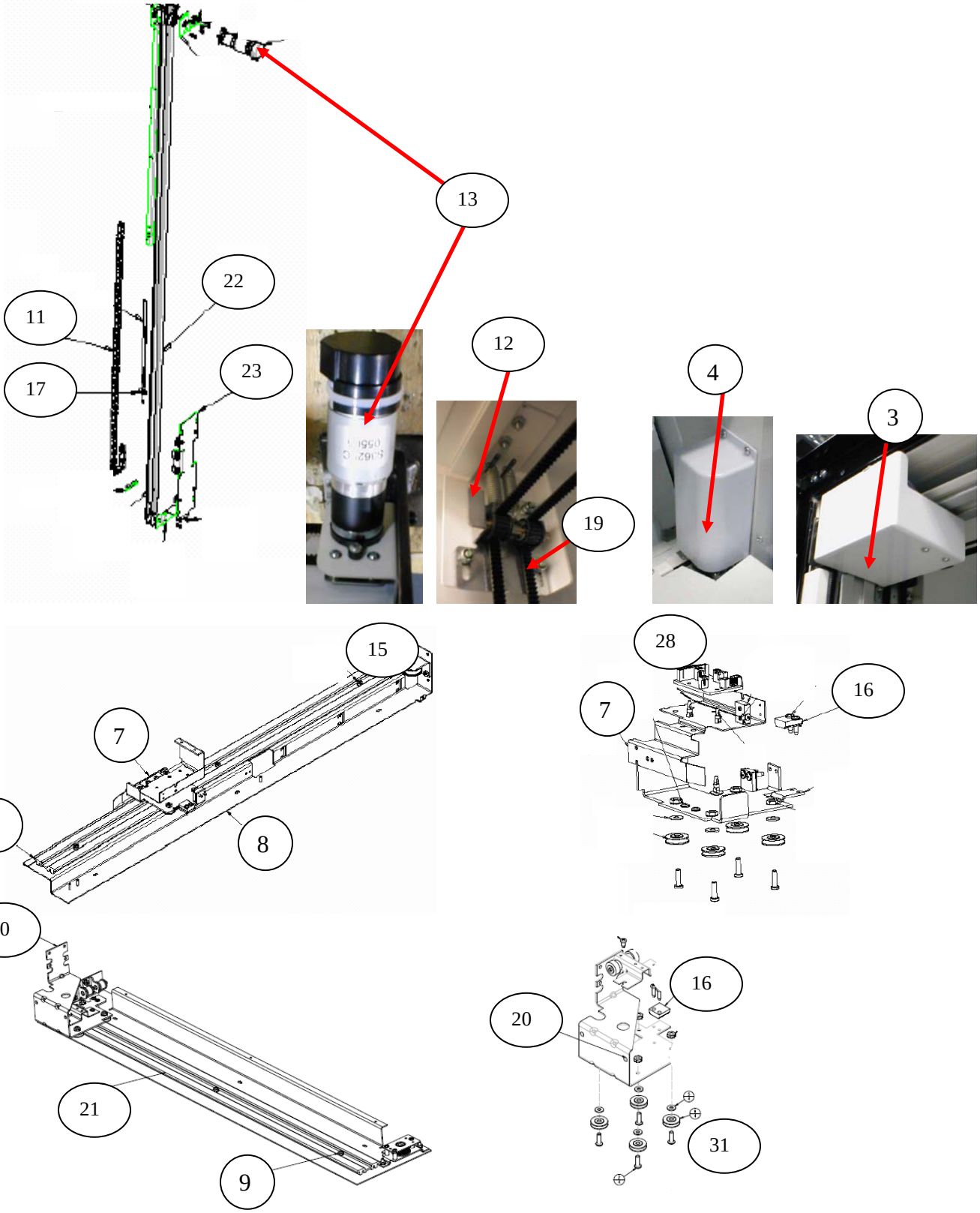


CABINET DETAIL SERVICE DOOR AREA

ITEM	PART DESCRIPTION	DN5800
1	Coin Mech Housing Assembly	647,001,00x.x3
2	Lower Coin Chute Assembly	801,823,42x.x1
2A	Lower Coin Chute	801,823,44x.x1
2B	Lower Coin Chute Cover	801,823,43x.x1
3	Cash Box Clip	801,814,68x.x1
4	Assembly, Lever Mech Arm Coin Return	647,003,20x.x3
5	Assembly, Lever Button Rod	647,003,10x.x3
6	Fuse 5 AMP 3AG Slo-Blo (AC Dist Box)	804,801,07x.x1
7	Coin Return Slide Bracket	647,000,75x.x3
8	Extension Spring ¼ x 1 ¾ x .029 MW	801,701,55x.x1
9	Mech Door/Hinge Mech Assembly	647,004,00x.x3
10	Flat Mount Cable with adhesive	804,801,12x.x1
11	Fuse for Motors 3 Amp (5 x 20mm)	804,801,16x.x1
12	Cash Box Cover	647,000,19x.x3
13	Coin Box Chute	647,000,18x.x3
14	Cash Box	801,823,39x.x1
15	Locking Cash Box Kit	432,011,50x.x4
16	Door Switch & Door Stop Bracket (Double Switch)	647,000,69x.x3
17	Door Switch	804,100,77x.x1
18	Power Interrupt Switch 10 Amp	804,101,29x.x1
19	DEX Harness Kit	647,003,60x.x4
20	Assembly Coin Chute	801,823,41x.x1
21	Door Stop	647,000,45x.x3
22	Roller Double Catch	801,522,01x.x1
23	Lock Nut	800,801,95x.x1
24	Lock Nut 8-32	800,801,55x.x1
25	Hex Nut 8-32	800,801,54x.x1
26	Controller Mounting Bracket Rails	647,000,61x.x3

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

XY MOTOR PICKER UNIT



XY MOTOR PICKER UNIT

ITEM	PART DESCRIPTION	DN5800
1	XY Delivery System	647,079,60x.x3
2	Assembly Cover Y Belt	647,078,10x.x3
3	Y Motor Cover Top	801,823,29x.x1
4	X Motor Cover Bottom	801,823,28x.x1
5	X Bottom Belt Cover	647,000,74x.x3
6	Harness, X Motor – bottom, not shown	804,924,97x.x1
7	X Top Carriage Assembly (top of XY)	801,307,63x.x1
8	X Axis Mounting Assembly Top	801,307,86x.x1
9	XY Extrusion (track)	801,201,88x.x1
10	Harness, XY E Chain (Top horizontal) – not shown	804,924,98x.x1
11	Harness, Y E Chain (vertical)	804,924,79x.x1
12	XY Belt Idler Tensioning Assembly	647,076,50x.x3
13	Motor XY System (Large D shaft)	804,501,64x.x1
	Pulley (for motor 804,501,64x.x1)	805,300,66x.x1
	Motor XY/Pulley Kit (includes pulley & motor)	647,010,30x.x4
14	Idler Pulley and Bracket Assembly	801,307,17x.x1
15	X Top Idler Pulley Assembly	801,307,45x.x1
16	Belt Clamp	805,100,03x.x1
17	Belt Tensioner Spring	801,401,97x.x1
18	Assembly X Drive Motor Mount Bracket	801,308,13x.x1
19	X Axis Belt	805,100,08x.x1
20	X Bottom Carriage Assembly (bottom of XY)	647,078,70x.x3
21	Assembly X Axis Drive, Bottom (Wide)	647,078,60x.x3
22	Assembly Y Axis	801,308,29x.x1
23	Y Carriage Assembly	801,307,41x.x1
24	Y Axis Belt	805,100,18x.x1
25	XY Shipping Wire Tie 4”	901,901,00x.x1
26	Shoulder Screw 4 – 40 (top of Y assy)	800,202,36x.x1
27	Micro Switch with Straight Arm	804,101,22x.x1
28	Y Board	804,923,54x.x1
29	Y Extrusion	801,202,01x.x1
30	Switch	804,101,31x.x1
31	Pulley Roller	805,300,54x.x1

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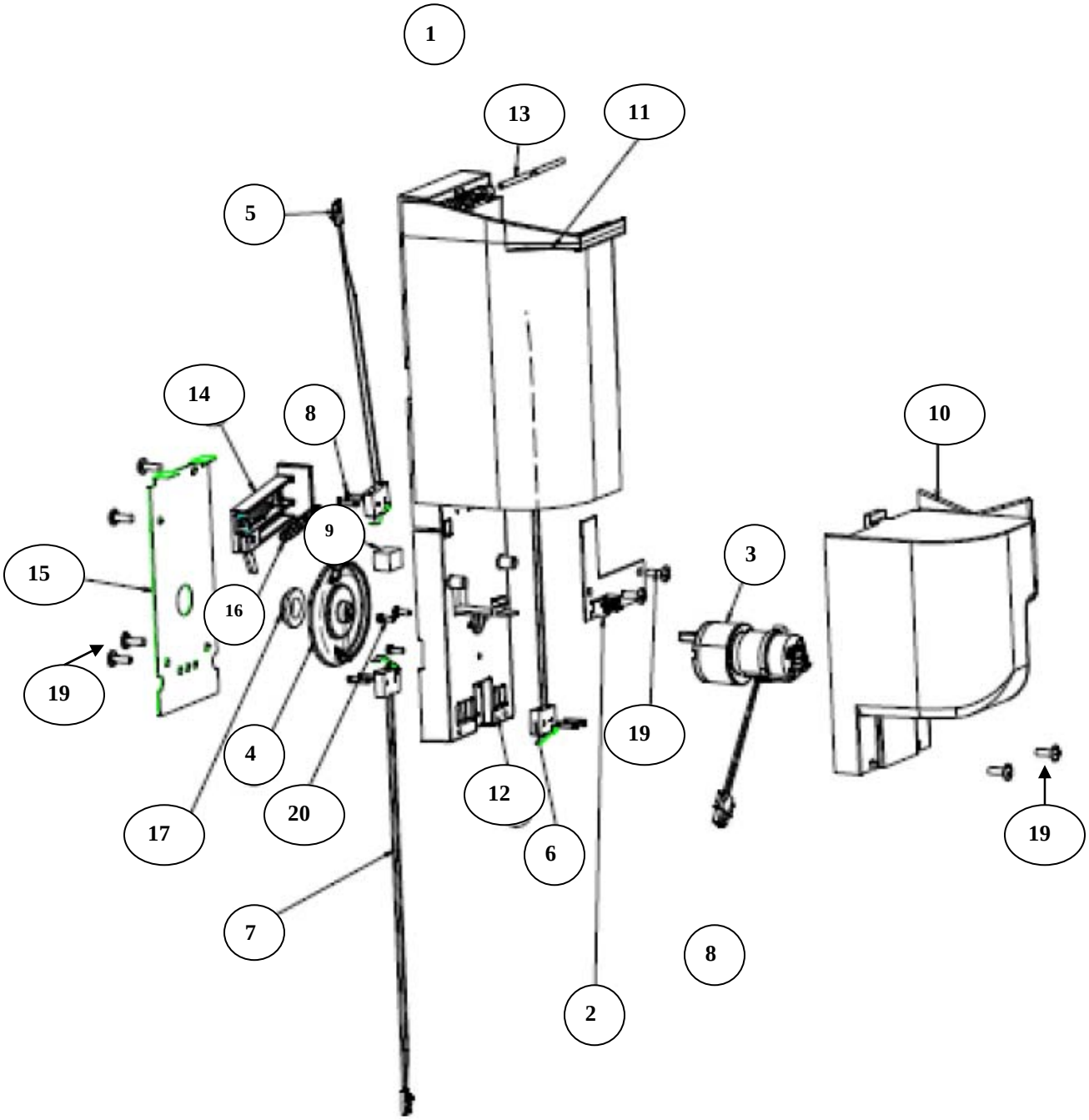
PICKER CUP ASSEMBLY



PICKER CUP ASSEMBLY

ITEM	PART DESCRIPTION	DN5800
1	Assembly Delivery Cup (Picker Cup Assembly) with out LED	647,078,00x.x3
2	Cup Base Board (Picker Cup Board L Shape)	804,923,52x.x1
3	Cup/Port Motor Assembly	804,501,61x.x1
4	Cup Motor Cam	801,201,81x.x1
5	Micro Switch with Bent Arm (Picker Home Switch)	804,101,37x.x1
6	Micro Switch with Straight Arm (Cup Home Switch – Y)	804,101,35x.x1
7	Micro Switch with Bent Arm (Picker Out Switch)	804,101,36x.x1
8	Screw, Phil Pan 2 – 32 X 1/2	800,305,01x.x1
9	Plunger Cup Bumper	803,601,23x.x1
10	Base Cup Cover	801,822,89x.x1
11	Delivery Cup Sleeve	801,822,58x.x1
12	Delivery Cup Body	801,822,88x.x1
13	Pin Cup Hinge	801,201,87x.x1
14	Assembly Plunger	805,202,75x.x1
15	Motor Cam Cover	647,070,35x.x3
16	Return Spring, Plunger (Picker Cup)	801,701,53x.x1
17	Cam Bearing	805,300,51x.x1
18	Harness, Cup to E Chain	804,923,74x.x1
19	Screw, 8 – 18 x ½ Pan Head, Machine	800,304,31x.x1
20	Screw, #4 – 40 x 3/8 Machine w/ lock washer	800,305,03x.x1
21	Screw, Phil Pan 2 – 32 x 1/2	800,305,01x.x1
22		
23		

Part numbers & descriptions are subject to change with out notice.
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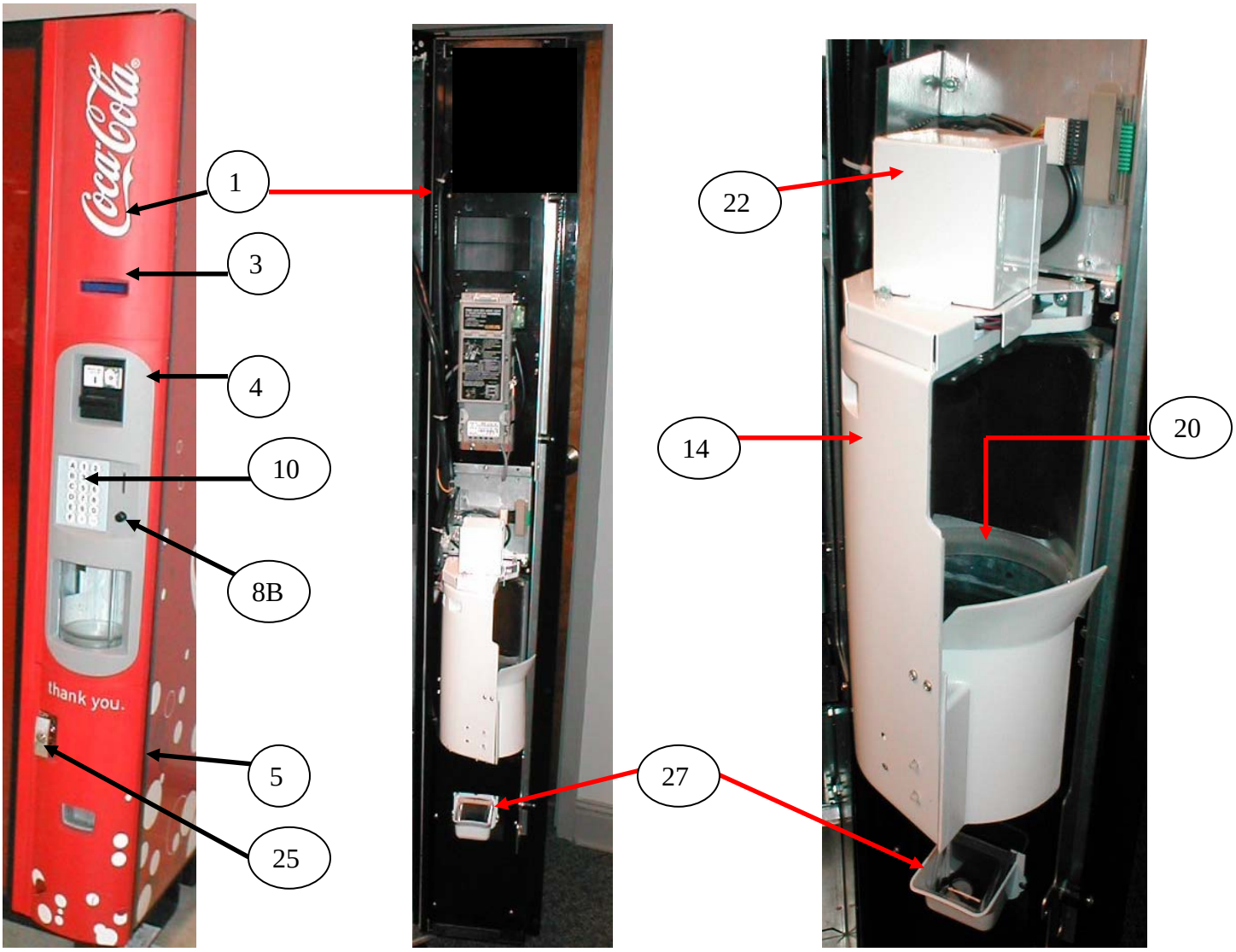
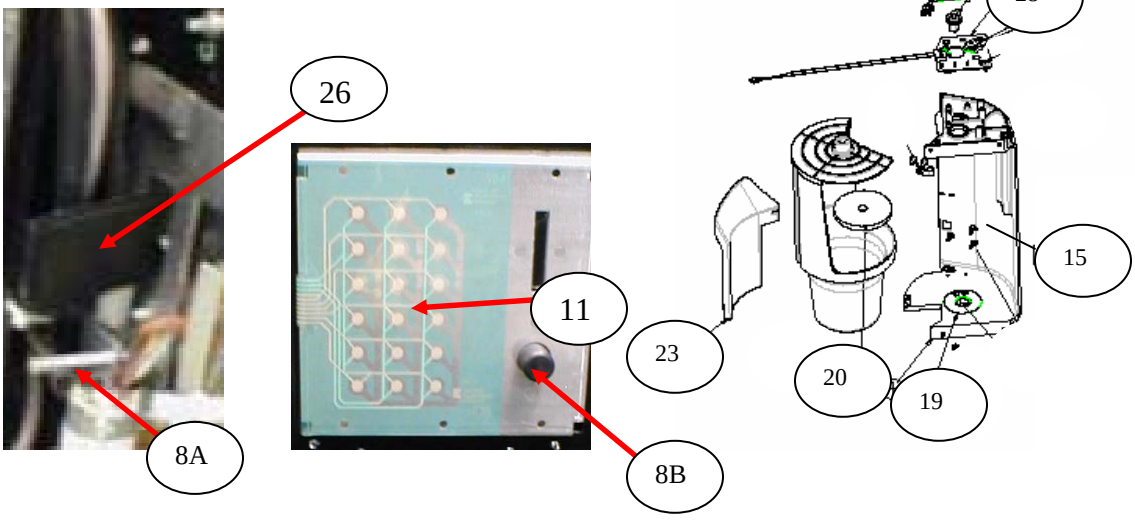
SERVICE DOOR (OUTSIDE)





SERVICE DOOR (OUTSIDE)

ITEM	PART DESCRIPTION	DN5800
1	Service Door Assembly, Coke	647,052,20x.x3
	Service Door Assembly, Dasani	647,052,80x.x3
2	Weld Assembly Service Door	647,051,70x.x3
3	Assembly Bezel Top, Coke	801,822,04x.x1
	Assembly Bezel Top, Dasani	801,822,17x.x1
4	Bezel Center, Coke	801,822,01x.x1
	Bezel Center, Dasani	801,822,11x.x1
5	Bezel Bottom T Handle, Coke	801,822,03x.x1
	Bezel Bottom T Handle, Dasani	801,822,03x.x1
6	Coin Return Button Bracket	647,050,07x.x3
7	Coin Return Button Assembly	801,820,53x.x1
8A	Coin Return Pusher Rod (part of item 7)	NA
8B	Coin return Button (part of item 7)	NA
9	Compress Spring	801,701,54x.x1
10	Overlay, Keypad – Coke	803,880,34x.x1
11	Keypad, Membrane Switch Assembly	804,101,21x.x1
12	Keypad Bracket Assembly	647,053,00x.x3
13	Keypad security Bracket	647,050,37x.x3
14	Assembly Port	647,053,90x.x3
15	Port Enclosure	801,824,00x.x1
16	Port Cam	801,824,09x.x1
17	Bracket and Motor Assembly	647,05,00x.x3
18	Assembly Inner Cup Port	801,820,97x.x1
19	Vend Sensor Plate	647,053,60x.x3
20	Port Discharge Pad	803,601,22x.x1
21A	Vend Sensor Board Assembly, Port	647,053,70x.x3
21B	Vend Sensor Cover	647,050,49x.x3
21C	Port Sensor Harness	804,923,65x.x1
21D	Vend Sensor	804,924,63x.x1
22	Motor Port Cover	801,820,68x.x1
23	Port Handoff Slide	801,821,03x.x1
24	Screw, Phil Pan 8 – 18 x ½ (secures bezels to panel)	800,304,31x.x1
25	Assembly T Handle, Coke	801,526,00x.x1
26	Coin Insert Chute	801,823,55x.x1
27	Coin Return Cup Assembly (also see pgs. 70 & 71)	801,821,29x.x1
28	LED & Switch Port Assembly	804,925,09x.x1

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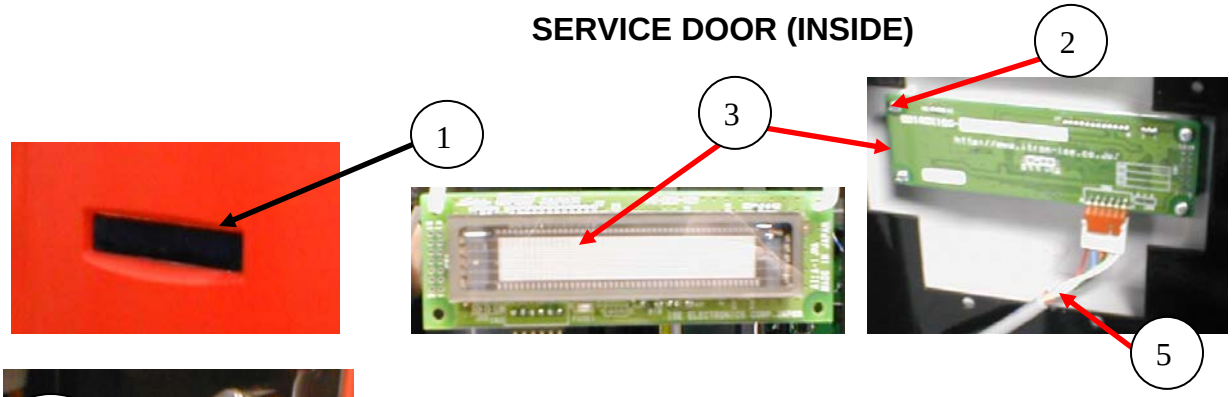
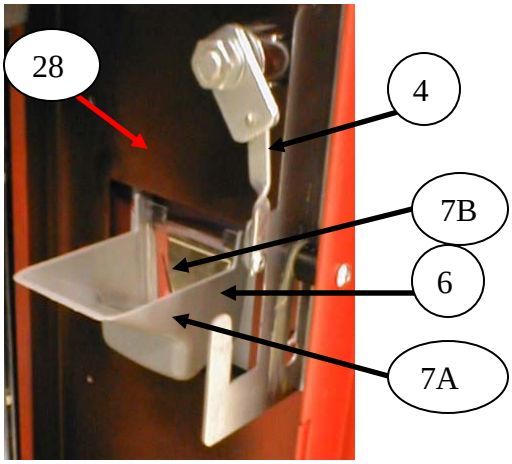
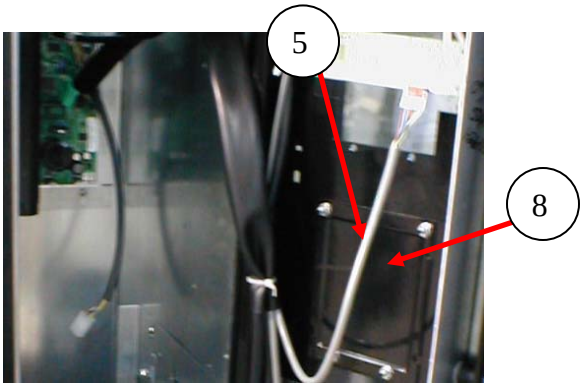
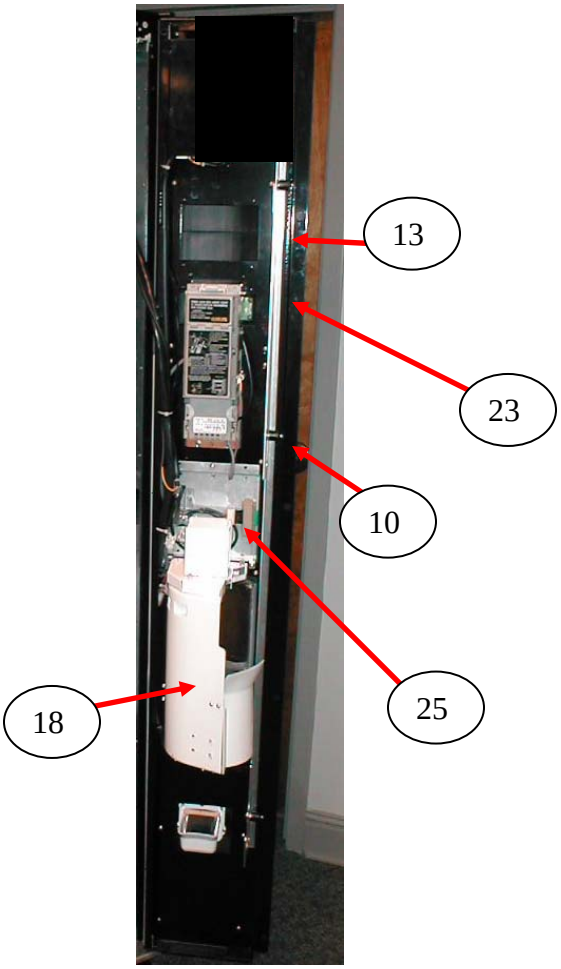
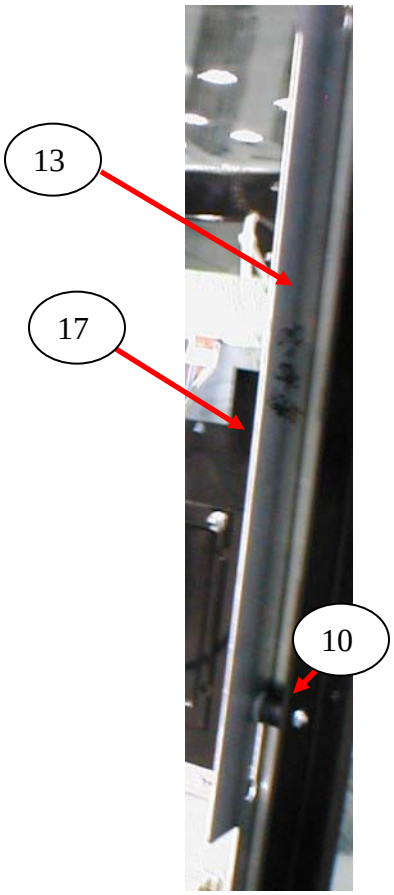
SERVICE DOOR (INSIDE)











SERVICE DOOR (INSIDE)

ITEM	PART DESCRIPTION	DN5800
1	Display Lens, Green (part of 801,822,04x.x1)	NA
2	Screw, Display 4 – 24 x 1/2	800,304,79x.x1
3	Assembly Display (Noritake)	804,923,86x.x1
4	Rod, Latch Bar	647,050,03x.x3
5	Door Bundle Harness	804,924,99x.x1
6	Coin Return Cup Assembly	801,821,29x.x1
7A	Change Cup	801,821,30x.x1
7B	Change Cup Door	801,821,33x.x1
8	Validator Filler Plate	647,050,41x.x3
9	Gasket, Validator Filler Plate	902,001,11x.x1
10	Spacer, Lockbar	801,201,97x.x1
11	Assembly, Bracket Coin Insert Plate	647,052,90x.x3
12	Latch – 2 Point Lock	647,070,88x.x3
13	Lock Bar	647,050,02x.x3
14	Washer, Flat .191 ID .50 OD (metal)	800,701,52x.x1
15	Washer, Flat .260 ID x .687 OD (nylon)	900,701,22x.x1
16	Screw, Shoulder 10-32x1/4	800,202,55x.x1
17	Protective Strip, Plastic (2 piece)	801,810,07x.x1
18	Enclosure	801,821,01x.x1
19	DEX Harness Kit	647,003,60x.x4
20	DEX Harness	804,924,94x.x1
21	DEX Harness Bracket	627,010,02x.x3
22	Hex Nut for DEX Harness	800,801,65x.x1
23	Service Door Security Angle	647,050,04x.x3
24	Door Display Security Plate	647,050,41x.x3
25	Coin Insert Assembly	647,052,90x.x3
26	Keypad Cable Clamp Kit	D114
27	Keypad Cable Clamp with adhesive	804,801,12x.x1
28	Change Cup Security Bracket	647,050,39x.x3
29	T Handle Bezel Bottom Assembly, Coke	647,052,40x.x3
	T Handle Bezel Bottom Assembly, Dasani	647,052,30x.x3
30	T Handle Assembly	801,526,00x.x1
31	Hex Washer #29-34, T Handle	901,503,08x.x1
32	T Handle Switch & Stop Bracket	647,000,69x.x3
33	Door Switch Strike Plate	647,050,38x.x3
34	Port Circuit Board w/out LED	804,925,11x.x1
35	Standoffs (Port Circuit Board)	801,903,80x.x1

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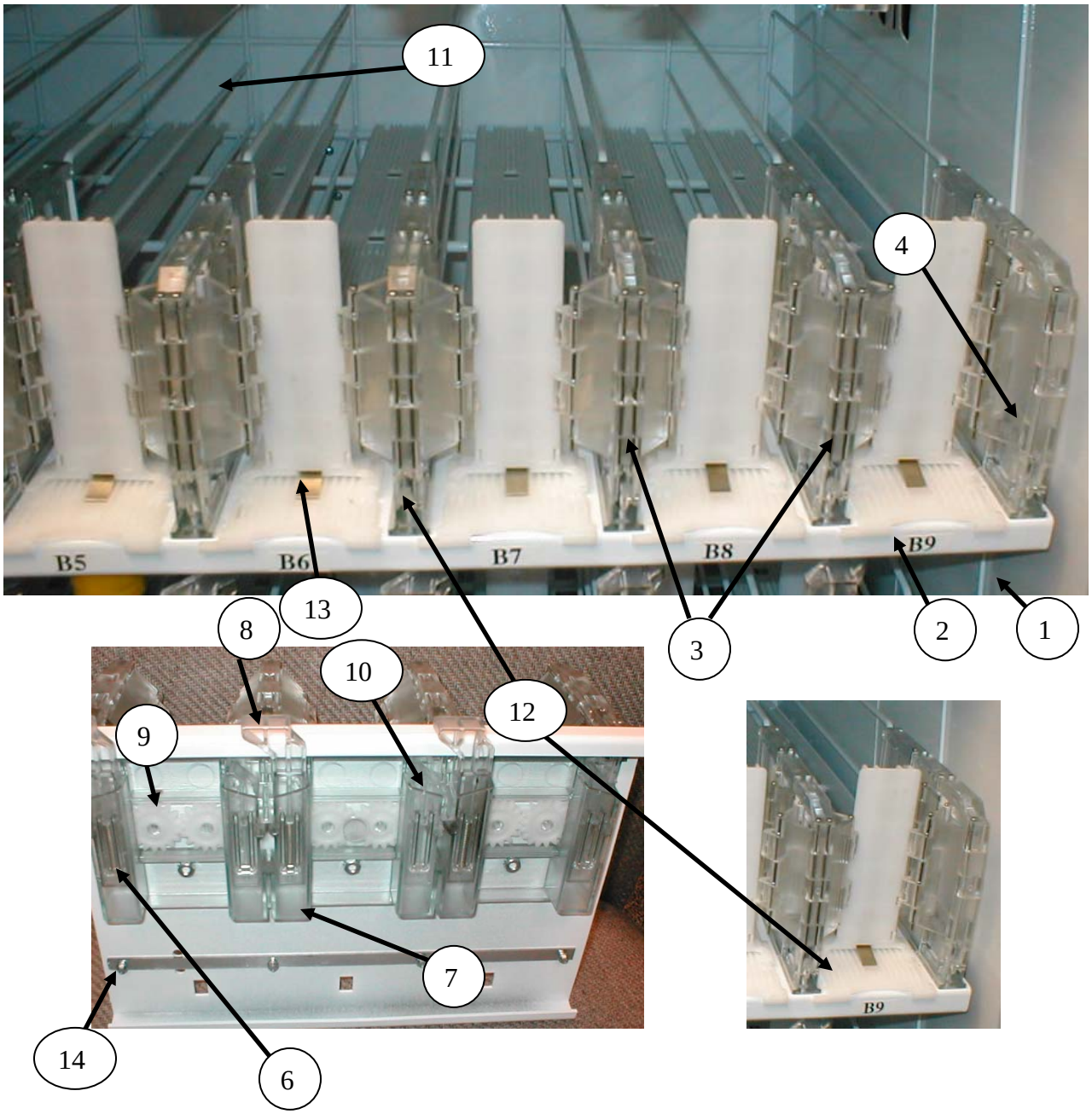
GATE TRAY DETAIL



GATE TRAY DETAIL

ITEM	PART DESCRIPTION	DN5800
1	Tray Assy., 9 Column	647,076,30x.x3
2	Chassis Tray, Tall Gate	647,071,50x.x3
3	Double Gate Assembly	801,820,18x.x1
4	Double Gate Assembly Right	801,820,29x.x1
5	Double Gate Assembly Left	801,820,31x.x1
6	Spring Gear Box	801,701,57x.x1
7	Gear Box Assembly	801,820,62x.x1
8	Double Gate Drive Mech Target	Part of #7
9	Double Gate Drive Mech Gear	801,820,35x.x1
10	Double Gate Drive Mech Follower	Part of #7
11	Tray Wire, Formed Domestic 9 Column	801,402,77x.x1
12	Slide with Product Pusher Assembly	801,820,96x.x1
13	Product Pusher Spring	801,701,13x.x1
14	Screw, Hex Washer 4-24x3/4 (Gate assembly screw)	800,304,17x.x1
15	3/16” Socket, ¼” Drive	800,102,52x.x1
16	Stabilizer, Tray Slide	801,904,67x.x1

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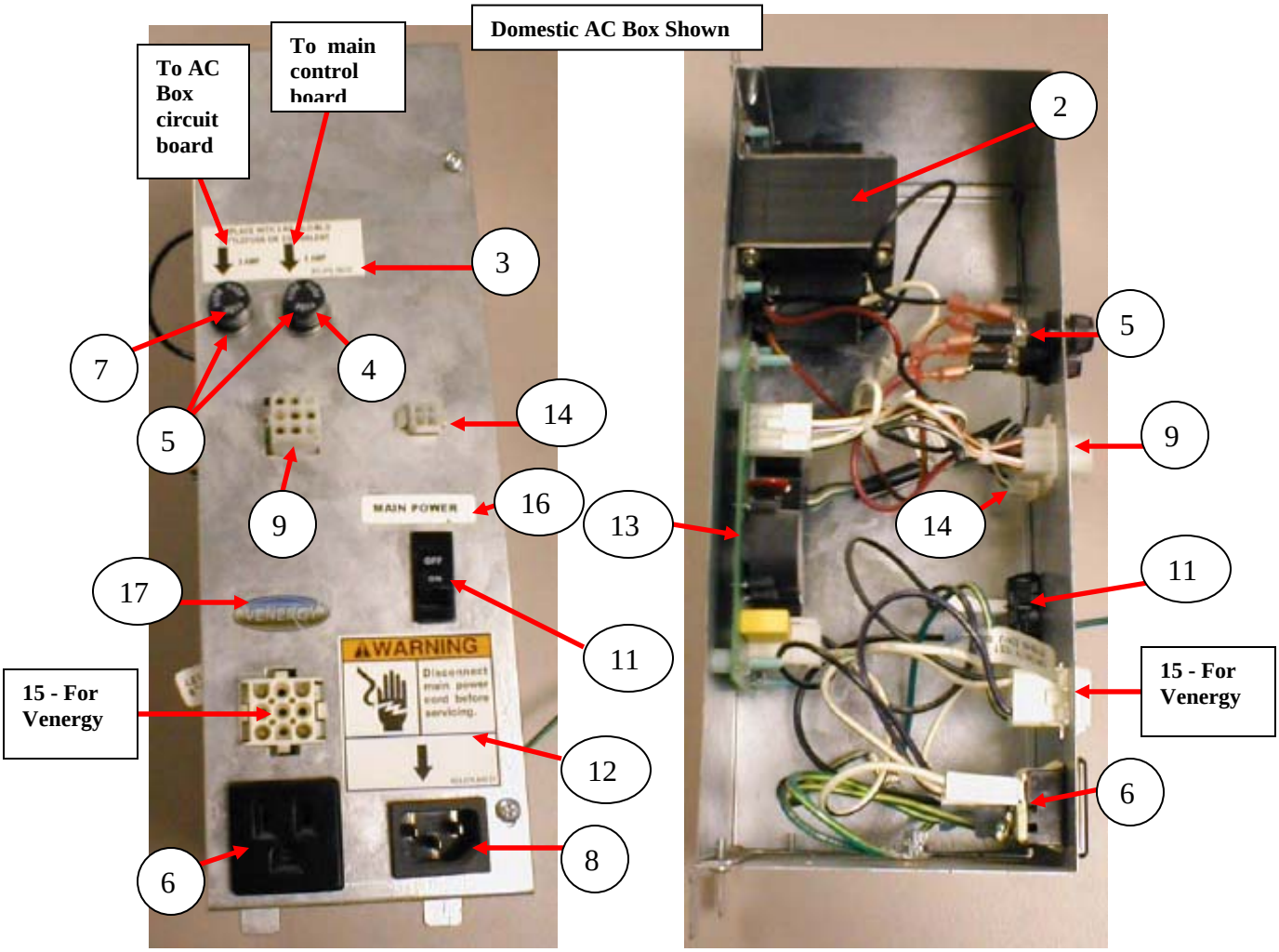
AC DISTRIBUTION BOX



AC DISTRIBUTION BOX

ITEM	PART DESCRIPTION	DN5800
1	Assembly AC Distribution T8 Electronic BevMax 3	647,077,10x.x3
2	Transformer, 120V / 24V, 60 Hz, 8A Domestic	804,925,14x.x1
3	Fuse Label, 2/5 Amp SloBlo (AC Dist Box)	801,879,76x.x1
4	Fuse, 5 Amp, 3AG SloBlo (1 per AC Dist Box)	804,801,07x.x1
5	Fuse Holder, Panel Mounted, Quick Disconnect 5X20mm	804,920,02x.x1
6	Outlet, 15 Amp, Grounded	W662
7	Fuse, 2 Amp, 250V, SloBlo (2 per AC Dist Box)	804,925,54x.x1
8	Power Inlet Plug	804,913,62x.x1
9	Harness, Power Distribution	804,925,01x.x1
10	Harness, Main Power	
	Power Cord GFCI 156” Plug Mount (harness only, no labels)	804,925,13x.x1
	Power Cord GFCI 156” In Line Mount	627,012,40x.x1
11	Rocker Switch, Hi In rush	804,915,15x.x1
12	Label Power Disconnect	803,876,94x.x1
13	Circuit Board Assembly	804,922,57x.x1
14	Harness, AC Dist Box Relay Control	804,925,03x.x1
15	Harness, AC Dist Box Main Power	804,925,02x.x1
16	Label, Main Power	804,860,85x.x1
17	Label, Venergy	803,875,13x.x1

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LIGHTING

ITEM	PART DESCRIPTION	DN5800
1	Ballast Assembly, T 8 Electronic 110 Volt/60 Hertz (Advance)	804,400,61x.x1
2	Lens, Fluorescent Lamp Assembly (28.35”) Top Vertical	801,603,05x.x1
	Lens, Fluorescent Lamp Assembly (23.938”) Bottom Vertical	801,603,06x.x1
3	Fluorescent Lamp T8, 2’ (OS #21718)	804,700,77x.x1
4A	Light Harness, 120 Volt – 3 Lamp T8	804,923,39x.x1
4B	Light Harness, 120 Volt – 1 Lamp T8 (Upper Light Assy.)	804,923,63x.x1
5A	Lamp Holder, T8 Bi Pin - Leviton 23652 (Vertical)	804,920,62x.x1
	Lamp Holder, T8 Bi Pin - Leviton 23653 (Horizontal)	Use 4 B
6	Light Assembly T8 Domestic	647,062,50x.x3
7	Assembly Lamp Channel 2’	647,061,70x.x3
8	Upper Light Assembly	647,000,00x.x3
9	End Cap Lamp	801,904,62x.x1
10	Lamp Cover (22.6”)	801,819,89x.x1
11	Choke	804,926,92x.x1
12	Choke Cover	801,823,34x.x1
13	Choke Harness Extended	804,924,46x.x1
14	Choke Lighting Return Harness	804,924,47x.x1

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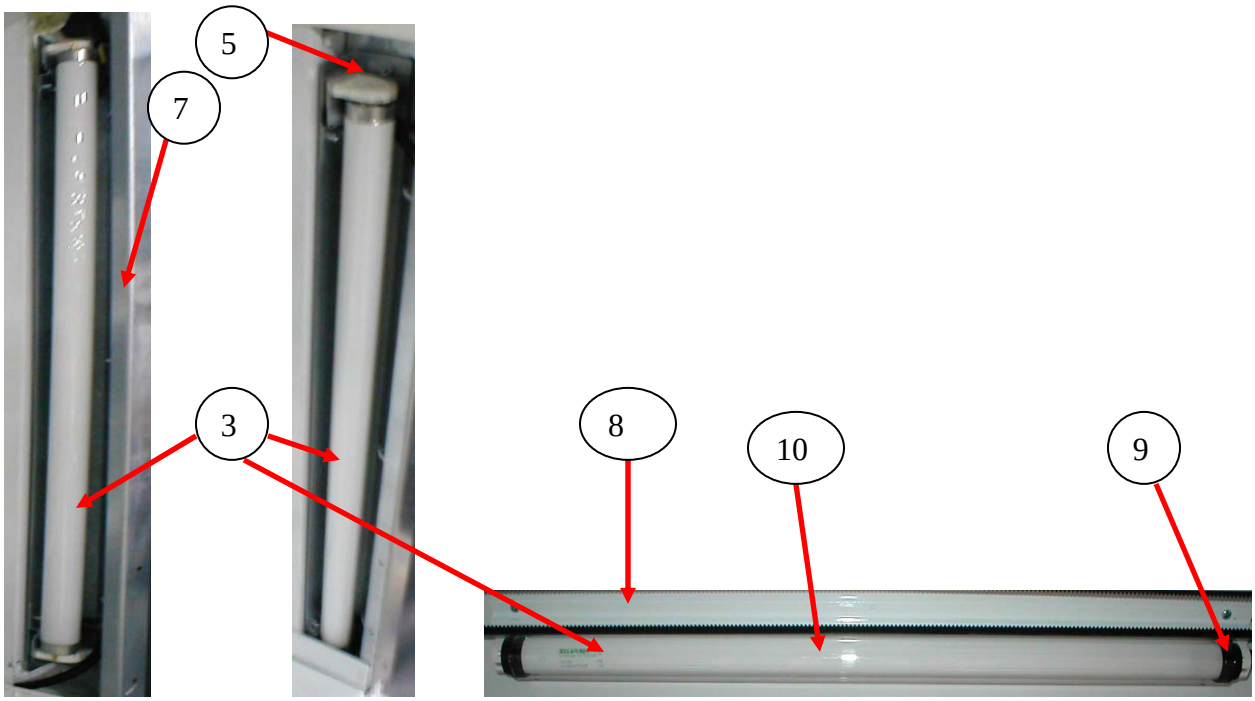
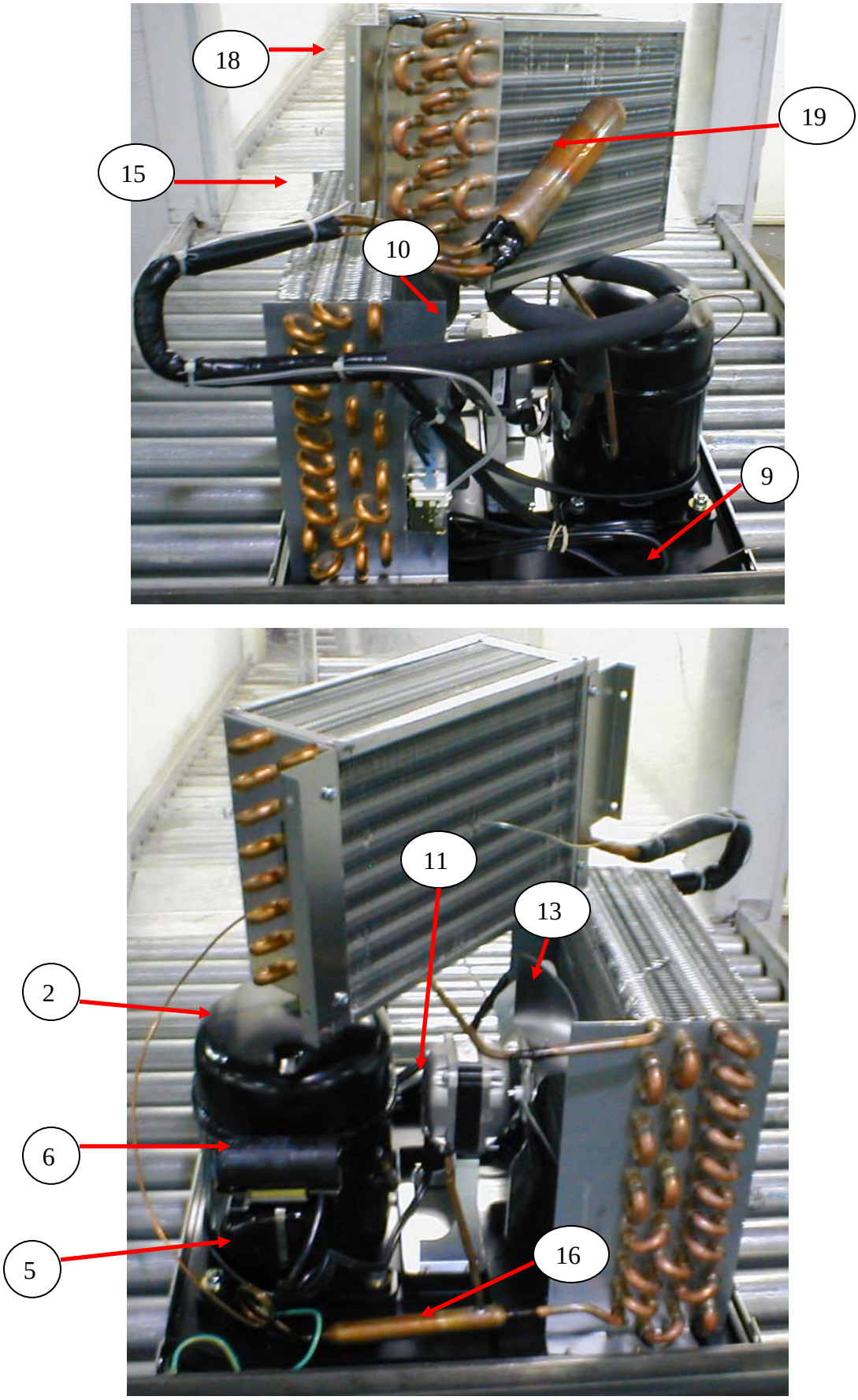


REFRIGERATION UNIT
(BevMax 3 FIN & TUBE CONDENSER)



REFRIGERATION UNIT
(BevMax 3 - FIN & TUBE CONDENSER)

ITEM	PART DESCRIPTION	DN5800
1A	Refrigeration Unit EM2001 C-A Kit, 115V/60Hz Domestic Kit	635,040,30x.x4
1B	Refrigeration Unit EM2001 C-A, 115V/60Hz Domestic	802,502,47x.x1
2	Compressor Assy. 115V/60Hz Domestic	TBD
2	Compressor, Domestic	TBD
3	Overload, 115V Domestic (MST16AFN-3001EM)	802,401,87x.x1
4	Relay, 110V –Domestic (Embraco 9660A-041-180)	802,401,86x.x1
5	Cover, Overload/Relay Tecumseh (Embraco 2075001)	802,401,88x.x1
6	Start Capacitor, 110V – Domestic (189-227MFD/165V)	802,401,93x.x1
7	Start Capacitor, End Cap Bottom Hole	TBD
8	Bracket, Capacitor Assembly (Embraco 2255002)	802,401,92x.x1
9	Drain Pan, Condensate - Domestic	TBD
10	Assembly Condenser Fan, 10” Domestic	TBD
11	Condenser Fan Motor, 9W Domestic (Embraco 15355030)	802,401,94x.x1
12	Silencer	TBD
13	Fan Blade, Condenser (Embaco 15355018)	802,401,95x.x1
14	Speed Nut	TBD
15	Condenser	TBD
16	Dryer	TBD
17	Grommet Compressor	TBD
18	Evaporator	TBD
19	Accumulator	TBD
20	Temperature Control Clip	800,902,63x.x1
21	Refrigeration Mounting Bracket	647,040,05x.x3
22	Encapsulated Temperature Sensor	804,924,93x.x1
23	Assembly Evaporator Fan 115V Energy Star (5 blade) w/ shroud	647,052,10x.x3
24	Evaporator Fan, EBM (5 blade) 115V includes harness	804,501,48x.x1
25	Choke	804,926,92x.x1
26	Defrost Control	802,401,97x.x1
27	Evaporator Fan Harness	804,924,67x.x1

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ELECTRONICS

ITEM	PART DESCRIPTION	DN5800
1	BevMax 3 Control Board Assembly, New	804,925,06x.x1
	BevMax 3 Control Board Assembly, Reconditioned	TBD
2	Standoffs	48904127
3	EPROM, Firmware BevMax 3	804,925,07x.x1
4	Display Assembly	804,923,86x.x1
5	Transformer	804,925,14x.x1
6	Fuse, 3 Amp 5 X 20mm Sloblo (on Control Board)	804,801,16x.x1
	Fuse, 2 AMP 250V SloBlo (on AC Dist. Box)	804,925,54x.x1
7	Battery, 3 Volt Lithium (CR20332)	804,920,45x.x1
8	Encapsulated Temperature Sensor	804,924,93x.x1
9	Choke, Evaporator Fan Assembly & Lighting/AC Dist Box	804,926,92x.x1
10	Board Y Motor	804,923,54x.x1
11	Motor XY System	804,501,64x.x1
12	Control Board Cover - Kydex	647,000,77x.x3
13	Assembly Vend Sensor Port Board	804,924,63x.x1
	Standoff (for Vend Sensor Port Board)	801,903,80x.x1
14	AC Dist & Relay Circuit Board	804,922,57x.x1
15	Picker Cup Base Board (L shape)	804,923,52x.x1
16	Motor, Port & Delivery Cup	804,501,61x.x1
17	Port Circuit Board	804,925,11x.x1
18	Controller Mounting Bracket	647,000,63x.x3

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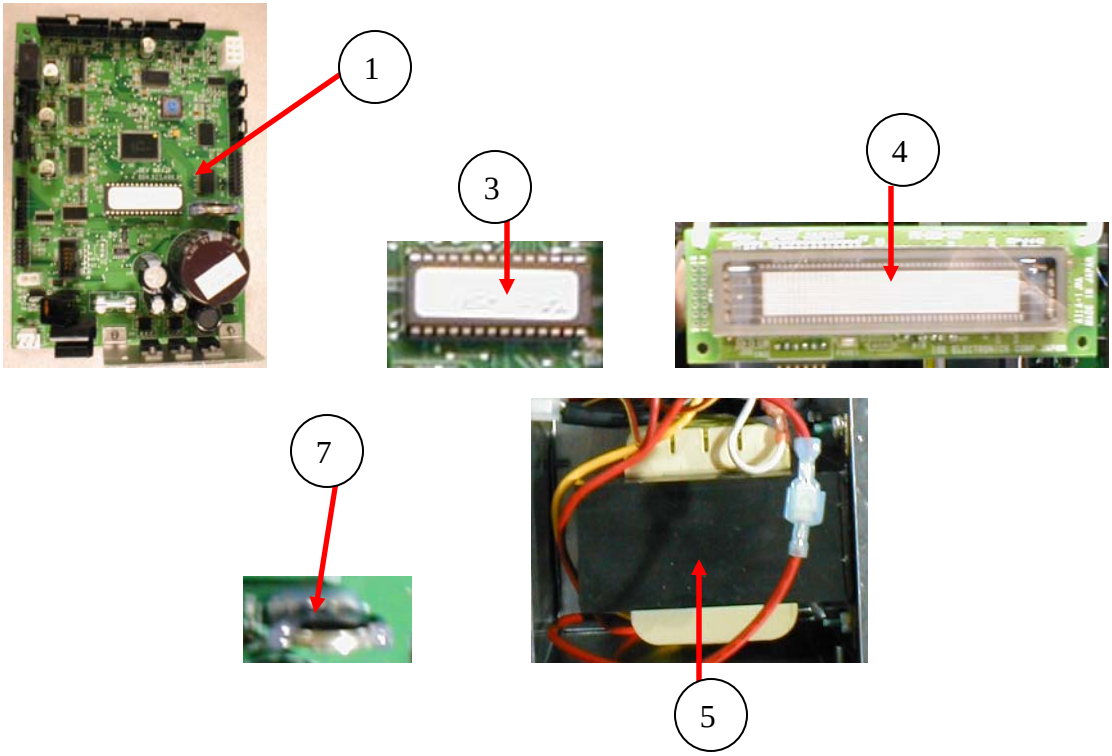
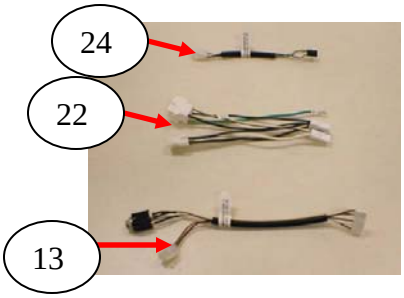
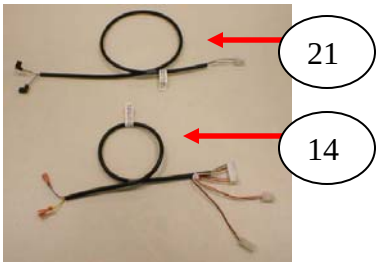
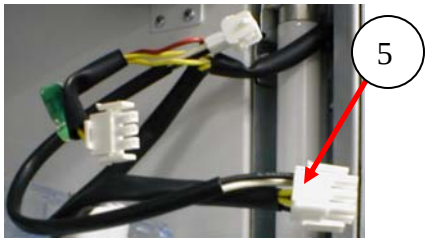
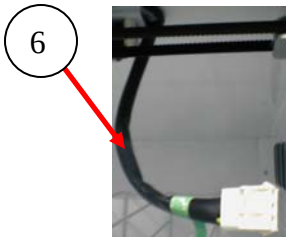


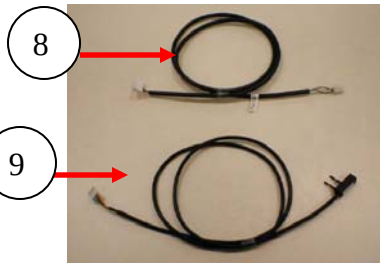
HARNESSES

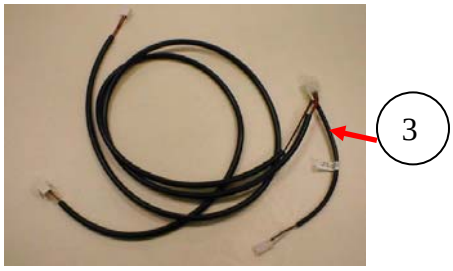


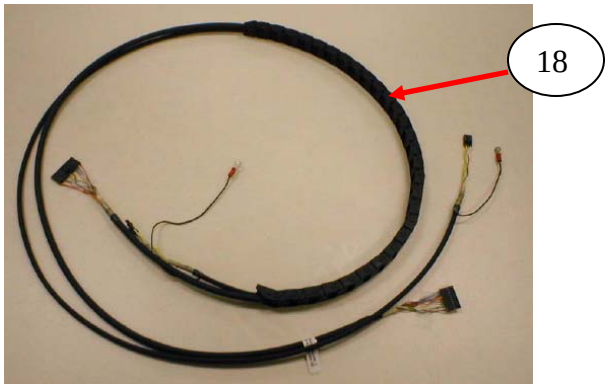


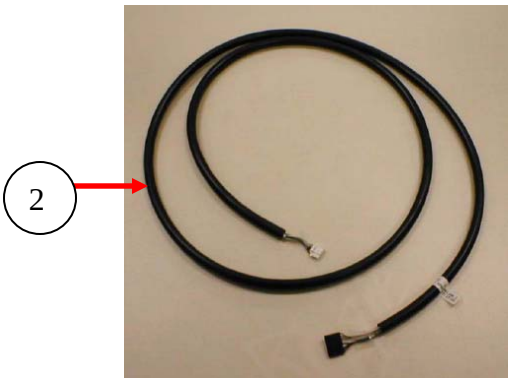


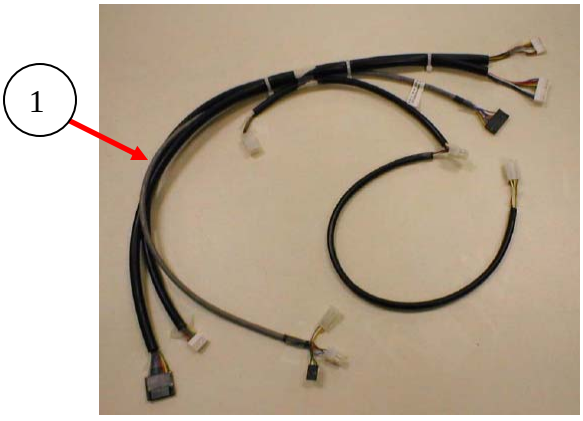












HARNESSES

ITEM	DESCRIPTION	FROM/TO	DN5800
1	Harness, Door	6 pin white plug at J12 of board, two 6 pin caps to mdb peripherials 12 pin black connector to J16 of board, 2 pin white plug to port motor, 4 pin white cap to vend sensor on port, 4 pin black connector to port switches 13 pin white cap to J7 of board, 10 pin black connector to keypad membrane 8 pin white cap J2 of board, 6 pin white cap to display	804,924,99x.x1
2	Harness, X Motor	8 pin flat black at J24 to 6 pin flat white at Motor	804,924,97x.x1
3	Harness, AC Distribution Interior Power	4 pin white plug at J10 to 9 pin white cap at AC Distribution Box, 2 pin white plug at evaporator fan, 2 pin plug to lights, & ground wire	804,924,95x.x1
4	Harness, Evaporator Fan	2 pin white plug to evaporator fan	804,924,67x.x1
5	Harness, Lighting 3 Lamp	9 pin white plug to ballast, 2 pin white cap to 2 pin white plug from AC Distribution Box, 3 pin white plug to horizontal light	804,923,39x.x1
6	Harness, Top Light 1 Lamp	3 pin white cap from horizontal light to 3 pin white plug from lighting harness	804,923,63x.x1
7	Harness, Y Motor E Chain	10 pin grey at J1 of Y board, 10 pin grey to delivery cup harness 804,923,74x.x1	804,924,79x.x1
8	Harness, Environmental	4 pin, 8 pin J4 on board	804,924,91x.x1
9	Harness, Temp Sensor	9 pin plug at J1 of board to Temp Sensor	804,924,93x.x1
10	Harness, Port Cup Bottom	4 pin plug to bottom of Port Cup to door harness	804,923,65x.x1
11	Harness, Main Power	Domestic Detachable GFCI Plug Mount Power Cord (115V) (harness only)	804,925,13x.x3
	Harness, Main Power	Domestic Detachable GFCI In Line Mount Power Cord (115V) (assembly)	647,012,40x.x3
12	Harness, AC Power Dist. Box	To AC Distribution Box 9 pin connector, P1 AC Dist Box, Transformer, fuse holders	804,925,01x.x1
13	Harness, DEX 15”	10 pin flat black connector at J3 on board	804,924,94x.x1
14	Harness, Machine Options	Door switch, 2 pin electronic counter, 2 pin override switch, 13 pin J5 on board	804,924,92x.x1
15	Harness, Cup to E-Chain	10 pin grey at J3 Picker Cup Board to Y E Chain (Grey Ribbon Harness)	804,923,74x.x1
16	Harness, Fan Choke Ext.	2 pin white plug to Evap Fan Choke	804,922,77x.x1
17	Harness, Board to Y Motor	6 pin flat black at P1 Y Board to 6 pin white to Y Motor	804,924,21x.x1
18	Harness, X/Y E Chain	14 pin flat black at J17 controller to 10 pin flat black at P6 Y Board, 5 pin flat black at J22 controller to 4 pin flat black at P3 Y Board	804,924,98x.x1
19	Harness, Lighting Choke	2 pin plug at light harness 80492339xx1 to choke	804,924,47x.x1
20	Harness, Light Choke Ext.	2 pin cap at AC Dist. Interior Power Harness 80492495xx1 to choke	804,924,46x.x1
21	Harness, Motor Interrupt	2 pin plug to J15 on board to motor interrupt switch	804,924,96x.x1
22	Harness, Power Dist.	9 pin venergy cap, 4 pin P3 AC Dist Board, on/off switch, refrigeration, & AC Input	804,925,02x.x1
23	Harness, Choke Output	9 pin plug to AC Dist. Box Choke	804,920,49x.x1
24	Harness, Relay	4 pin cap to relay harness, compressor relay, fan relay, light relay to P2 AC Dist Board	804,925,03x.x1

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LABELS / DECALS / MISC.

ITEM	PART DESCRIPTION	DN5800
1	Vender Lag Bracket Kit (see Tech Bulletin 344)	627,020,60x.x4
2	DEX Kit – Includes bracket, 15” harness, & hardware	647,003,60x.x4
3	Thermometer	801,401,55x.x1
4	Price Sheet .35 – 1.10	803,877,51x.x1
	Price Sheet 1.15 – 1.85	803,877,52x.x1
	Price Sheet 1.90 – 3.75	803,877,53x.x1
5	Label, Selection - BevMax 3	803,857,26x.x1
6	Flavor Card Sheet – Coke	TBD
	Flavor Card Sheet – Dasani	TBD
7	Label, Warning “DO NOT TILT”	803,868,29x.x1
8	Label, Programming	TBD
9	Label, Coin Mech	803,853,25x.x1
10	Ad Card Coca-Cola	805,042,54x.x1
	Ad Card Dasani Lemon	805,043,81x.x1
11	Label, AC Distribution Box Power Disconnect	803,876,94x.x1
12	Decal, Side Cabinet – Coke	803,882,77x.x1
	Decal, Side Cabinet - Dasani	803,880,87x.x1
13	Decal , Glass Door – Coke	803,882,76x.x1
	Decal , Glass Door – Dasani	803,885,82x.x1
14	Decal, Cup Base – Coke	803,879,38x.x1
	Decal, Cup Base - Dasani	803,885,83x.x1
15	Decal, Sleeve – Coke	803,879,39x.x1
	Decal, Sleeve – Dasani	803,885,81x.x1
16	Wiring Diagram, Domestic	803,882,83x.x1
17	Coke BevMax 3 Manual, Service / Operation / Parts	803,904,26x.x1
18	Coke BevMax 3 Installation Set Up Guide	803,904,36x.x1
19	Overlay Keypad - grey	803,880,34x.x1

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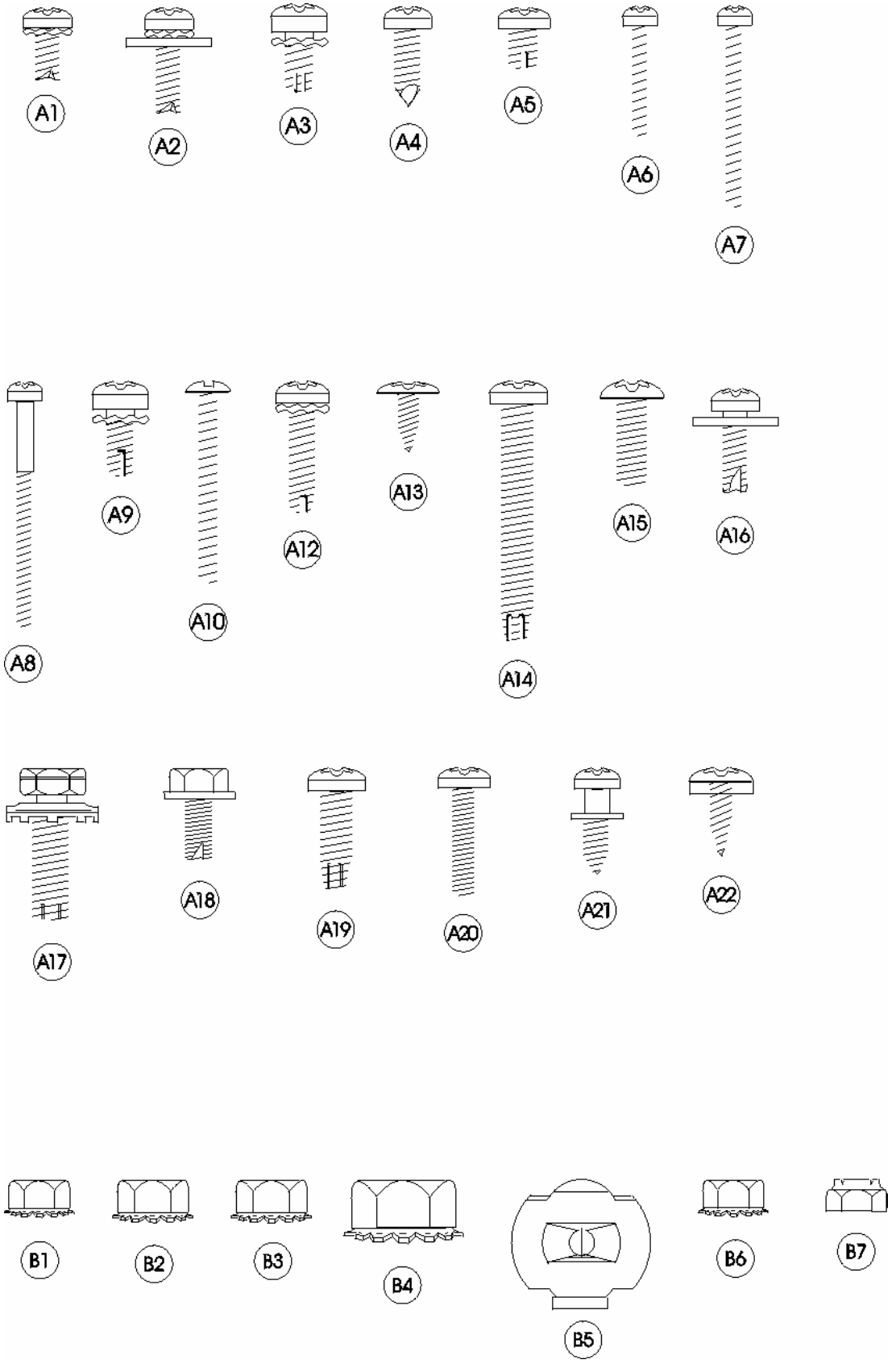
SCREWS & NUTS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SCREWS & NUTS

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
A1	800,304,46x.x1	Screw, Phil Pan Head 1/4 - 20 x 1 ¼"
A2	800,304,22x.x1	Screw, Phil Pan #8 - 32 x 3/8"
A3	800,304,18x.x1	Screw, Phil Pan w/out washer self drilling, #8 - 18 x 1/2"
A4	800,304,34x.x1	Screw, Phil Pan Swage Form #8 - 32 x 1/4"
A5	800,304,99x.x1	Screw, Phil Pan #2-32 x 3/8"
A6	800,305,01x.x1	Screw, Phil Pan, #2-32 x 1/2"
A7	800,304,79x.x1	Screw, Phil Pan #4-24 x 1/2"
A8	800,304,22x.x1	Screw, Phil Pan Cutting #8 - 32 x 3/8"
A9	800,304,34x.x1	Screw, Phil Pan Swage Form #8 - 32 x 1/4"
A10	800,304,94x.x1	Screw, Phil Pan #8 - 32 x 5/8"
A11	800,304,28x.x1	Screw, Phil Pan Form #10 - 32 x 1 1/4"
A12	800,202,55x.x1	Screw, Fl Flstr Shoulder #10 - 32 x 1/4"
A13	800,304,23x.x1	Screw, Phil Pan Sems with washer, #8 - 18 x 1/2"
A14	800,304,36x.x1	Screw, Self Tapping, 1/4 - 20 x 5/8"
A15	800,304,68x.x1	Screw, Hex Washer 8x5/8”
A16	800,202,65x.x1	Screw, Phil Truss #10 - 32 x 3/8"
A17	800,305,03x.x1	Screw, Phil Pan with lock washer #4 - 40 x 3/8"
A18	800,202,36x.x1	Screw, Shoulder #4-40
A19	800,304,31x.x1	Screw, Phil Pan #8-18x1/2"
A20	W948	Screw, Hex Head 10-16 .50
A21	803,303,57x.x1	Screw, Hex Tapping .250-20
A22	W716	Screw, Hex Washer Head ¼-20
A23	800,304,97x.x1	Screw, Phil Pan #8-18x.375"
A24	800,305,02x.x1	Screw, Phil Pan #8-18x5/8”
A25	800,304,17x.x1	Screw, 4-24 HiLo
A26	800,304,21x.x1	Screw, Phil Pan Swage Form #8-32x1/2"
A27	800,304,51x.x1	Screw, Hex Washer Head #8-18x1/2"
A28	800,304,23x.x1	Screw, Phil Pan, #8-18x1/2”
A29	800,304,15x.x1	Screw, Nylock #8-32x1/2"
A30		
B1	800,801,56x.x1	Hex Nut, #10 - 32
B2	800,801,57x.x1	Hex Nut, 1/4 - 20
B3	800,801,54x.x1	Hex Nut, #8 - 32
B4	800,801,65x.x1	Hex Nut, Dex Plug
B5	900,800,85x.x1	Speed Nut
B6	W906	Hex Nut with washer, #10 - 24
B7	800,801,55x.x1	Elastic Stop Nut, #8 - 32
B8	800,801,52x.x1	Nut Jam Lock 5/16
B9	800,902,97x.x1	Push Nut .187 X .437
B10	800,903,02x.x1	Push Nut ID .250
B11	800,801,47x.x1	Push Nut Washer Cap Type
B12	800,304,78x.x1	Nylon Insert Lock Nut ¼ - 20
B13		

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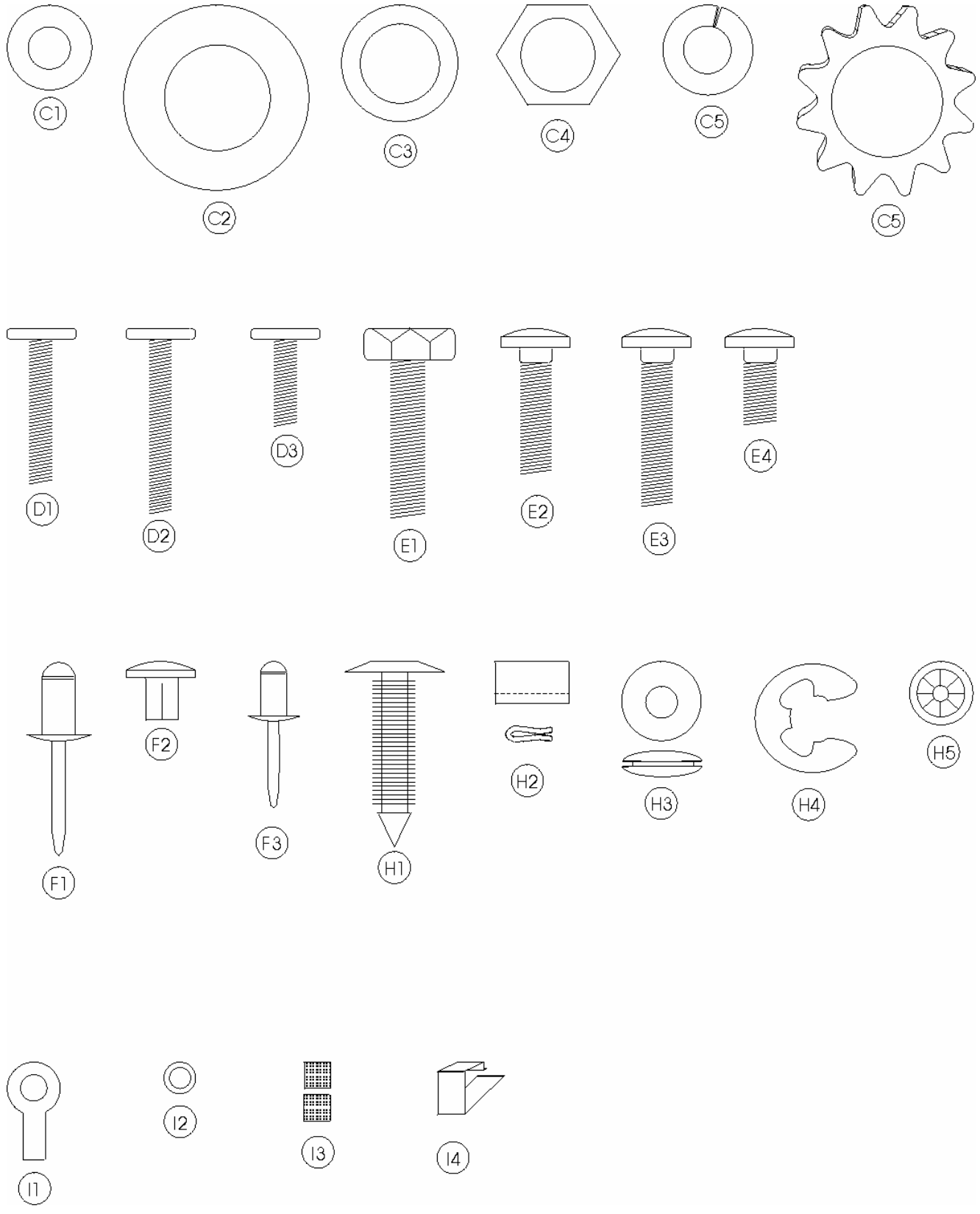
WASHERS, BOLTS, & MISC. HARDWARE



WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
C1	W884	Washer, Lock .261 ID
C2	800,701,39x.x1	Washer, Nylon .189 x .375 x .031
C3	900,701,22x.x1	Washer, .260 ID x .687 OD Flat
C4	901,503,08x.x1	Washer, Hex #29-34 (T-Handle)
C5	800,701,52x.x1	Washer, .191 ID x .5 OD x .054T Flat
C6	48909130	Washer, SS Flat #10
C7	800,701,44x.x1	Washer, Flat 18 Gauge (17/64""IDx5/8"OD)
C8		
D1	800,202,49x.x1	Carriage Bolt,¼ - 20 x 2.5
D2	800,202,51x.x1	Carriage Bolt, 10-24 x .82
D3		
E1	901,100,54x.x1	Pop Rivet, Black 1/8"
E2	801,100,81x.x1	Pop Rivet, Steel (Zinc Plated) 1/8"
E3	801,100,79x.x1	Pop Rivet, Steel (Zinc Plated) 3/16"
E4	801,100,65x.x1	Pop Rivet, Aluminum 1/8" White
E5	48909023	Pop Rivet, SS 187
E6		
F1	801,904,48x.x1	Nylon Bushing, Heyco 2867
F2	W788	Retaining Rng
F3	W789	Cotter Pin .076 dia. .5 long
F4	801,001,76x.x1	Pin Self Clinching .250 x ¾
F5	800,503,72x.x1	Pin Threaded Allen Head .625 L
F6	800,503,75x.x1	Pin Belt Tensioner Idler PVT
F7	800,903,36x.x1	E Ring Ext ¼ #E-25
F8	801,903,80x.x1	Standoff Richro RLCBSR401SR
F9	801,001,77x.x1	Pin Self Clinch .250 x 1
F10	801,001,75x.x1	Standoff, Clinch 8 – 32 5/8
F11	801,818,13x.x1	Nylon Spacer #8 ID, .312 OD, .5
F12	800,902,49x.x1	Tinnerman Clip, U-Nut ¼ - 20
F13	800,902,73x.x1	Clip, Canoe 254-12020-99
F14	801,401,97x.x1	Belt Tensioner Spring
F15		
H1	D579	Plug, Dome Black .50
H2	901,902,01x.x1	Wire Tie, 7 1/2"
H3	901,901,00x.x1	Wire Tie, 4"
H4	W223	Wire Tie, Twist
H5	800,902,51x.x1	Clamp, Nylon 5/16" White
H6	901,901,89x.x1	Clamp P 1" Heyco 3390
H7		

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