

Technical Manual

BEVMAX **4**
MODEL 5800-4

Glassfront Vender

Models DN5800-4, DN5800-E4, DN3800-4, DN3800-E4
Production 8900-0001BH & higher



Tier 2



Operation
Service
Parts
Troubleshooting
Manual

Manufactured by



MERCHANDISING SYSTEMS

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High Voltage Warning / Electrical Warning
Danger electricity, electric shock.



A Generic Warning.



Hazard Warning: Beware of moving machinery –
Entanglement hazard. Keep hands, loose clothing,
and long hair away from moving parts.

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 Crane Merchandising Systems 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 Crane Merchandising Systems factory parts. This Vender should only be used by those individuals that have a clear understanding of how to operate a vending machine in a safe manner.



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 4 5800-4/3800-4 Domestic and BevMax 4 5800-E4/3800-E4 Export Venders was May 2009. The production date of Crane Merchandising Systems 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:

- H = 2009 K = 2012
- I = 2010 L = 2013
- J = 2011 M = 2014

CE Mark & IIA Declaration:

An updated CE Mark or IIA Declaration document can be provided upon request. If needed please contact

Technical Support Manager in Williston, SC. Phone: 1- 803-266-5001 or email bstaubs@cranems.com.

PHYSICAL CHARACTERISTICS

	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
HEIGHT	72" (1828.8 mm)	72" (1828.8 mm)
WIDTH	47" (1193.8 mm)	39" (990.6 mm)
DEPTH CABINET	32" (812.8 mm)	32" (812.8 mm)
DEPTH WITH SERVICE DOOR	33.5" (850.9 mm)	33.5" (850.9 mm)
BASE	3.5" (88.9 mm)	3.5" (88.9 mm)
SHIPPING WEIGHT	764 lbs. (346.54kg)	675 lbs. (306.17g)
Noise Level	Operates at < 70db.	
Glass door width is 37.5" (952.5 mm) 5800's, 28.1" (713.74 mm) 3800's, height is 68" (1727.2 mm) both.		

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 Crane Merchandising Systems. Although the terms of sale are FOB shipping point, which requires the consignee to originate shipping damage claims, Crane Merchandising Systems 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 or 38mm socket type wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards. Once the skid boards are removed there is 3" (76.2 mm) from base flange to the floor with the leveling legs screwed all the way in.

Once the vender is unpacked, check the "B" Tray area for any additional parts, price/product labels,

service/operation manual or other information concerning factory-equipped accessories such as coin mech and validator.

It is recommended the vender be vend tested before shipping to the location. See Pg 12, "Test Modes".



Note: Remove tape from ends of top lamp in the top lamp assembly after placing the Vender on location, but before plugging the Vender in to an AC power supply.

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).

Equipment Nominal Power Requirements -

120V / 10.2 A = *1224W (1.224kw)

220V / 5.8 A = *1276W (1.276kw)

240V / 5.8 A = *1392W (1.392kw)

*Note: Watts = V X A

DO NOT USE AN EXTENSION CORD.

POWER SUPPLY CORD and GROUNDING REQUIREMENTS

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

WARNING

- The GFCI protects against current leakage caused by ground faults. The GFCI is not designed to protect against over current or short circuits.
- **DO NOT** use the TEST and RESET buttons on the GFCI as an ON/OFF switch.
- The vending machine supply cord **MUST** be plugged directly into a properly grounded, 3 wire receptacle that is properly protected by a fuse or circuit breaker. If the receptacle will not accept the power cord plug, it must be replaced with a properly grounded, 3 wire receptacle in accordance with the National Electrical Code and Local Codes and Ordinances. The work should be done by a qualified electrician. **DO NOT USE A 3 WIRE TO 2 WIRE ADAPTOR**



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



- **DO NOT USE WITH AN EXTENSION CORD.**
- **DO NOT REMOVE THE WARNING TAG ATTACHED TO THE POWER SUPPLY CORD.**
- The GFCI must be tested frequently and before each use in accordance with the instructions provided on the GFCI device. **IF THE GFCI DOES NOT PASS THE TEST, DO NOT USE THE MACHINE.** Unplug the supply cord from the receptacle and call the Crane Merchandising Systems Technical Support Group for assistance at 1-803-266-5001.

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

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



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

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 ###.## (i.e. ###.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 36.

SERVICE NOTE

Battery Backup

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

- Open the service door, turn the main power switch to the off position or unplug the main power harness located on the front of the power box.
- Locate the control board mounted on the rear wall.
- Remove the battery from its holder (B1).

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 from 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 Crane Merchandising Systems / 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 Crane Merchandising Systems Technical Service Department or your Crane Merchandising Systems Representative for assistance.

ACCEPTABLE AMBIENT OPERATING TEMPERATURE RANGE.

Coke BevMax 4 5800-4/3800-4 equipment manufactured by Crane Merchandising Systems is designed to work properly in a temperature range of 75°F to 90°F (23°C to 32°C) in still air 65% R.H. non-condensing.

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 1/2" or 38 mm 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 CRANE MERCHANDISING SYSTEMS DIXIE-NARCO TECHNICAL BULLETIN 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL THE CRANE MERCHANDISING SYSTEMS TECHNICAL SERVICE DEPARTMENT OR YOUR CRANE MERCHANDISING SYSTEMS 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. 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 can be installed in 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. Contact your graphics supplier to purchase as needed.

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 4 5800-4/3800-4 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 from 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:

- All available NRI MDB
- All available Coinco MDB
- All available Mars MDB
- All available Conlux MDB

The vender will support the following domestic MDB Bill validators:

- All available Cashcode MDB
- All available Coinco MDB
- All available Mars MDB
- All available Conlux MDB

The vender will support MDB card readers.

SETTING THE TEMPERATURE CONTROL

This vender is equipped with an electronic temperature sensor. Defrost is controlled both electronically based on run time of the compressor and with a manual Defrost thermostat. The temp sensor is factory pre-set to maintain a cabinet temperature of 35° Fahrenheit (1.7°C). 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 manual Defrost thermostat 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 4 5800-4/3800-4 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 mode in the programming section of Technical Manual 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 or 220VAC 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. Domestic Venders contain a 15 Amp Outlet which provides power to the Refrigeration Unit. It contains a main power switch/plug that allows power to the AC Distribution Box to distribute AC power to the lights, evaporator fan, and refrigeration system, which are always energized when the vender is powered up. It is located inside the service area, mounted to the back wall.

VENDING MACHINE CONTROLLER (VMC)

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

KEYPAD

The keypad is located on the front of the service door. It consists of a 6" X 3" (15.2 mm X 7.6 mm) matrix, tactile feel 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. The Model BevMax 4 units consist of a 1/3 plus horsepower compressor, with a single fin and tube style condensing unit with one condenser fan, condensation overflow pan, evaporator, and evaporator fan motor. The refrigeration 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 or rear of the vender as a complete assembly. An electronic thermostat regulates the cabinet temperature. The control 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 or 7 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.**

DELIVERY (PICKER) CUP ASSEMBLY

The delivery (picker) cup assembly is located on the XY vend mechanism. Its purpose is to pick the product from the column and deliver the product to the delivery port assembly. The delivery (picker) cup 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 delivery (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.

REFRIGERATION DECK CLAMP ASSEMBLY

The refrigeration deck clamp assembly is located on the rear left side of the cabinet base plate. Its purpose is to secure the refrigeration assembly tight against the vertical base plate for refrigerated air flow in to the cabinet. A 7/16" wrench or socket is needed to adjust the bolt.

BELT TENSION ADJUSTMENT COMPONENTS

The belt tensioning adjustment components have been designed to ease adjusting belts when needed. The X Belt Idler Tensioning Assembly in the upper left hand corner of cabinet now includes a thumb screw. Adjustments should only be needed if a belt is replaced.

The Bottom X Drive Tensioner Assembly in the lower right hand corner of cabinet has a plastic spring loaded tensioner designed to keep the belt against the pulley when moving and does not require any adjustments.

COCA-COLA BevMax 4 (70x.x1 Software) 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 - #####.##.##", "Card - #####.##", "Sale - #####.##", " Error Codes", or "No Errors" 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 Errors". 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:

- "HORIZ", X (horizontal) motor issue.
- "VERT", Y (vertical) motor issue.
- "PICKI", picker home switch issue.
- "PICKO", picker out switch issue.
- "PICKRS", picker return spring issue.
- "PORT", port door switch/board issue.
- "VS", port vend sensor board issue.
- "XHOME", X (horizontal) motor home switch issue.
- "YHOME", Y (vertical) motor home switch issue.
- "MOTOR", port/delivery cup motor issue.

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.
- “Scale Factor”, indicating a peripheral has introduced a scaling factor that is incompatible with current setting.
- “FRAM”, memory module read/write error.
- “RTC”, RTC read/write error, real time clock issue.
- “Low Battery”, low battery issue.
- “PWROUT”, power lost.

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”.

“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 misrouted.

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.

“OLM” – On Line Module Summary Error Codes

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

- “On Line Network”, error reported by the OLM.
- “On Line Internal”, error reported by the OLM.

Press key number 1 will return to “OLM” if all OLM Errors have not been cleared. If all OLM 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 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.

“SAT” – Satellite Device Error.

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

- “SATC”, satellite communication issue.
- “BADM”, bad motor reported.
- “MISM”, missing motor reported.

Press key number 1 will return to “SAT” if all SAT Error Codes have not been cleared. If all SAT 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 3⁰ F below lower limit.
- “Temp Too Hot”, indicating the cabinet temperature is 3⁰ F above upper limit.

- “Not Cooling”, indicating the cooling system has failed to decrease temperature 1⁰ F per hour while the compressor is running.

- “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”.

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.

“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 27. 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 a lower case alphabet will display, then turn off, then an upper case alphabet will display alternating until key number 1 has been pressed 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 Counters" 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. If in a BevMax 4 with a Snack Vender attached you will also have available Drink Sales # & Snack Sales #. Press key number 2 to display Drink Sales # (if Snack Vender attached). Press key number 2 to display Snack Sales # (if Snack Vender attached). Press key number 2 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 Mode"- This function will only display if "EXE" is turned on in the "Coke Factory Setup" mode.

This function is used to set the price mode to either VMC holding the prices or the EXE Coin Mech holding the prices. Press Key 4 to enter menu. The current setting is displayed as "Price Holding: On" or "Price Holding Off". Press key 2 to select the desired price mode On or Off. Press key 4 to confirm setting. Press key 1 to exit menu.

Note: If Price mode is set for "Price Holding", then the Price Program will allow the user to set the price lines for each selection. It will operate the same as setting prices, except the user will be prompted to set a price line rather than a price.

"Price Program" - PRICE SETTING ROUTINE

This function allows the user to set pricing. When Configuration Code 1 is programmed to "Config 1 0" the vender is set for single price vending. When Configure Code 1 is set to "Config 1 1", the vender is set for multi-pricing (or a price for each selection needs to be set). Note: This routine is lockable when using a data collection device.

Single Price price setting:

Press key number 4 "Single Price" will show on display. Press the "4" key and "Price Sel #.##" will show on display. Press key "2" to increase the vend price or key "3" to decrease the vend price. With the display showing the vend price you require, press key "4" to save. All selections will be set to vend at the saved vend price.

Multiprice price setting:

Press key 4 and display will show "All Selections". Press key 2 to scroll from "All Selections" to individual tray selections "A, B, C, D, E". With the display showing the All settings of the tray you wish to set price in press the key 4 to enter. At "All Selections" when you press 4 and enter the display will show "#.##" or current price set. Press key "2" to increase the vend price or key "3" to decrease the vend price. With the display showing the vend price you require, press key "4" to save. If you select an individual tray letter to set price in, when you press 4 and enter the display will show "All Selections (for tray A only)". Press key 2 to scroll to A1 thru A9 then back to All Selections (for A tray only)". At the position you wish to set price when you press 4 and enter the

display will show "#.##" or current price set. Press key "2" to increase the vend price or key "3" to decrease the vend price. With the display showing the vend price you require, press key "4" to save.

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.

Price line setting:

This function will only display if Price Holding: On" is set. It will operate the same as setting prices except the user will be prompted to set a price line rather than a price.

IMPORTANT: If Enable Snack Vender is set to "1" or on the vender must be set for Multiprice price setting. When scrolling through to select where to set prices you will see the following; "All Drink Selections, A, B, C, D, E, and then All Snack Selections. At "All' Snack Selections" Press key 2 to scroll from "All Snack Selections" to individual tray selections "21, 22, 23, 24,25, 26". With the display showing the setting of the tray you wish to set price in press the key 4 to enter. At "All' Selections" when you press 4 and enter the display will show "#.##" or current price set. Press key "2" to increase the vend price or key "3" to decrease the vend price. With the display showing the vend price you require, press key "4" to save. If you select an individual tray number to set price in, when you press 4 and enter the display will show "All Selections (for tray 21 only)". Press key 2 to scroll to 211 thru 21# then back to All Selections (for 21 tray only)". At the position you wish to set price when you press 4 and enter the display will show "#.##" or current price set. Press key "2" to increase the vend price or key "3" to decrease the vend price. With the display showing the vend price you require, press key "4" to save.

"View PL Assignments"- This function will only display when EXE in the "Coke Factory Setup" is turned on.

This function allows the user to see which selections are assigned to which price lines. Even if price holding is turned off, this menu will show what the price line assignments will be when price holding mode is enabled. To enter this menu press key 4. Press key 2 to scroll through the price lines 0-100. Press key 1 to exit menu.

"View PL Value"- This function will only display when EXE in the "Coke Factory Setup" is turned on.

This menu allows the user see the value of each Price line held by the EXE coin mech. In order to

see this value, the "Display Price" feature on the EXE coin mech must be turned on.

Note: If no price is programmed in the EXE coin mech for the requested price line, or if the "Display Price" feature is not turned on in the Coin Mech this menu will show "not available". Enter this menu by pressing key 4. Press key 2 or key 3 to select the desired price line. Press key 4, the display will show "requesting,,,". After the EXE Coin Mech has responded with the value of the price line, it will be shown. If the EXE CM does not respond with the value, then "not available" will be shown. Press key 2 or 3 to select another price line or press 1 to exit menu.

"Quick Payback"- This function will only display when EXE in the "Coke Factory Setup" is turned on.

This menu allows the user to set the VMC to pay back change immediately after a vend is requested. With this option set, the price of the vend is always deducted from the available credit after a selection is made, even if the vender fails to deliver the selected item. To enter this menu press key 4. The current setting will display as "Quick Payback; On or "Quick Payback Off". Press key 2 to select the desired mode ON or OFF. Press key 4 to confirm. Press key 1 to exit menu.

"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:

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

With "Custom StS" showing, press key number 4 and "Clear Settings?" will show on display. Press key number 4 and wait a few seconds will clear the current space to sale settings. Press key number 1 will return to "Custom StS". Press key number 4 and wait a few seconds 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 3 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.

*** "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	Spanish
French	Italian
German	Русский (Russian)

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 Enable 1 = 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”.

“Day” - 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".

"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 Time".

"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".

"Start 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 F(C)" - 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^o 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^o F or 0.5^o 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^o F / 15.5^o 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^o F or 0.5^o 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 "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".

****"Select Block 2" - BLOCK SELECTION BANK 2 ROUTINE**

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 "Day" will show on the display.
 - "Day"** - Day of Week Stop Setting
 Set this function using instructions for "Select Block 1", "Stop Time", "Stop Day".
 - "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**

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".
 - "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 Safety" – HEALTH SETTING ROUTINE

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° F (5° C) or below for product to be vended while in normal operation. If the cabinet temperature exceeds 41° F, and fails to return to 41° 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° F (7° C). If the machine has not reached 45° F (7° 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° F or less, but not 41° F the controller will set a 15 minute timer. During this time, if the cabinet temperature falls below 41° F (5° C) the controller will allow health guarded product to be delivered. If the temperature doesn't fall below 41° F (5° 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° F (7° 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° F (5° C). If the

temperature doesn't reach 41° F (5° 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° F (7° 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° F (5° 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 choose 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 1 to return to "Health Safety". Press key number 2 to scroll to "Over-ride Switch"

"Over-ride Switch" - MANUAL SWITCH OVERRIDE ROUTINE

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

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 "Star 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".

"Combo Vend Discount" – used with Snack Vender to set combination drink/snack vends at discount pricing (only available if Snack Vender Enable is turned on in Satellite (137/937) Setup or if a Snack Vender is connected).

This function is used to activate the Selections that will be used and the discount value that will be set in the combination drink/snack vend discount. Important: To setup Combo Vend Discount enable Multivend, enable Combo Discount, set Satellite (137/937) Prices, and Set Discount Prices. Press key number 4 to enter routine and display will show: "All Selections", press button 2 to scroll through Set Row A through Row E of Drink Vender and then continues with Set Row 21 through Set Row 26 of Snack Vender. Press key number 1 to move to "All Drink Selections". Press key number 2 to move to "All Snack Selections". Once the display shows the selection setting you wish to use press key 4 and display will show "All Values: \$#.## (flashing) – this message depends on if you pick an entire row or an individual selection. Press key 2 or 3 to scroll to the value you wish the discount set. Press key 4 to save the value and return to "All Selections. Press key number 1 to return to "Combo Vend Discount"

"Return to Sales Mode" - RETURN TO SALES MODE

Press key number 4 will exit Service Mode and return to Sales Mode.

Coca-Cola BevMax 4 (70x.x1 Software) 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).

Basic Programming

Basic Programming									
Error Codes	Vend Mechanism	HORZ	Errors con't.	Card Reader	Card Reader Comm	Sts Programming	Option 1	1 to 1	
		VERT		Card Reader #			Option 2	Tray	
		PICKI		OLM (On line module)	On line network			Option 3	Half Tray
		PICKO			On line internal			Option 4	Groups of 3
		PORT		Remote Vend Mech	Remote Vend Comm #			Option 5	1,2; 3,4; 5,6; 7,8,9
		VS			Remote Vend #			Option 6	1,2,3; 4,5; 6,7; 8,9
		XHOME		SAT (Satellite)	SATC			Custom StS	
		YHOME			BADM		*Config Switches	Config 1	Multi Price
		MOTOR			MISM			Config 2	Optional features
		PICKRS		Select/Display	Select/Display Comm			Config 3	POS Message
	Control System	Door Switch	Coin Pay Out	Refrigeration	Temp Sense Err		Config 4	Auto View Counts	
		RAM Checksum		Temp Too Cold		Config 5	Dr Sw Reset		
		Scale Factor		Temp Too Hot		Config 6	Not Used		
		FRAM		Not Cooling		Config 7	Save Credit		
		RTC		Health Code		Config 8	Force Vend		
		Low Battery		Recheck Failed		Config 9	Multi Vend		
		PWROUT		Config 10	Bill Escrow				
	Changer	Changer Comm	Tube Fill	5¢, 10 ¢, 25¢, etc			*Correct Change	Consumer Overpay #	
		Tube Sense	Test Modes	5¢, 10 ¢, 25¢, etc	Test Vend	Column A1, etc		Corr Chg Value	###.###
		Changer Inlet		Test Sel Switch	Selection 4, etc		Uncond Accept	###.###	
		Tube Jam		Test Display	a thru t & A thru T	*Preview Password			
		Changer ROM		Test Relays	Compressor #	*Language Select			
		Excessive Escrow			Fan #	*Time Programming			
		Coin Jam	Light #		*Lighting Control				
		Low Acceptance	Password Entry	4,2,3,1,4		*Refrigeration			
		Acceptor Disconnected	*Cash Counters	Cash Tot/####.##		*Select Block 1			
		Coin Routing Err		Card Tot/####.##		*Select Block 2			
		Bill Validator	Bill Val Comm	*Sales Counters	Cash Sel A1 ####.##		*Select Discount		
			Bill Stack Full		Sales Tot/###		Health Safety		
			Bill Motor Error		Drink Sales #	(if Snack Vender used)	Over-ride Switch		
	Bill Jam		Snack Sales #		(if Snack Vender used)	Remote Vend Mech			
	Bill Val ROM		Sales Sel A1/###			Combo Vend Discount	(only available when Snack enabled)		
Bill Stack Open	*Price Program		All Selections		###.##	Return to Sales			
Bill Sense Err						* require password to enter			

**Coca-Cola BevMax 4 (70x.x1 Software)
BevMax Setup Programming Method Quick Reference Menu Prompts**

BevMax Setup	Coke Factory Setup			Coke Factory Setup Enable EXE – cont'd.	View PL Value
	Set Model Number			Test Modes	Quick Payback
	Coke Factory Setup Set Prc/Tmpr 4 Test	(factory testing only)			Test Vend
	Coke Factory Setup Set Prc/Tmpr Default	(Factory testing only)			Test Sel Switch
	Coke Factory Setup Set Shelf Offset				Test Display
	Coke Factory Setup Position Test				Test Relays
	Coke Factory Setup Set Hook Offset				
	Coke Factory Setup Cup Sensor On/Off?				
	Coke Factory Setup Cup Test				
	Coke Factory Setup Port Test		Satellite (137/937) Setup	Snack Vender	
	Coke Factory Setup Set Shelf Config			Enable Snack Vender	Enable:# (0-1)
	Coke Factory Setup Master Reset			*Golden-Eye Policy	Drop (Home)
	Coke Factory Setup Update Software			*Set Golden-Eye Sel	Sel:210 # (0-1)
	Coke Factory Setup Double Talk			*Snack MotorScan	Execute Motor Scan?
	Coke Factory Setup Build Number ###			*Combo Vend Discnt En	Enable # (0-1)
	Coke Factory Setup Sold Out Enable			Return To Sales	
	Coke Factory Setup \$ Enable		Return To Sales		
	Coke Factory Setup Enable EXE	Price Mode			
		Price Program	*only available when Snack Vender enabled or connected to a Snack Vender.		
		View PL Assignments			

Dixie-Narco Factory Setup Menus - BevMax Setup/Test Modes/Satellite (137/937) Setup

The below diagnostic features are used for aligning the XY assembly and providing pertinent information that is unique to the Coca-Cola BevMax 4 Vender and is not found in the standard programming of the vender. These include menus for "BevMax Setup", "Test Modes", and "Satellite (137/937) Setup". The menus include the following sub-menus. In BevMax Setup you have "Set Price/Temperature 4 Test", "Set Price/Temperature Default", "Set Shelf Offset", "Position Test", "Set Hook Offset", "Cup Sensor On/Off", "Cup Test", "Port Test", "Set Shelf Configuration", "Master Reset", "Update Software", "Double Talk", and "Build Number ####". In Test Modes you have "Test Vend", "Test Sel Switch", "Test Display", and "Test Relays". In Satellite (137/937) Setup you have "Enable Snack Vender", "Golden-Eye Policy", "Set Golden-Eye Sel", "Snack Motor Scan", and "Combo Vend Discount En".

To enter "BevMax Setup" sub menus:

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 "BevMax Setup". Press the number 2 key to scroll to Test Modes or press the number "4" key one time will cause the VMC to enter the BevMax Setup sub menu or press and hold the number "1" key for 1 second to exit the "BevMax Setup" submenu and return to the "Error Codes" service menu prompt. Once you enter the "BevMax Setup" mode press key 4 to enter submenu and Coke Factory Setup Set Prc/Tmpr 4 Test will show on display, 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.

BevMax Setup **Coke Factory Setup** **Set Model Number**

Press key 4 to enter menu
Displays "Reset Model?"
Continue 4 = Y, 1 = N
Press A key to scroll thru the models.

Models are 3800-4, 5800-4, 3800-E4, 5800-E4. The display will display save? A = ^, * = Y, Clear = no. Press the * key at the correct model to save setting. Note: Program the model 5800-4 for all Domestic BevMax 4 & 3 Venders with 9 columns per shelf. Program the model 3800-4 for all Domestic BevMax 3800-4 with 7 columns per shelf. There is not an option for a model number for 5800 and 3800 glass front.

Coke Factory Setup **Set Prc/Tmpr 4 Test – (DO NOT USE IN THE FIELD)**

This sub menu will be used to set the vend price and temperature during our factory testing and should not be used in the field.

Coke Factory Setup **Set Prc/Tmpr Default – (DO NOT USE IN THE FIELD)**

This sub menu will be used to set the vend price and temperature back to factory default settings during our factory testing and should not be used in the field. Press key 4 and display will show "Set to Default? Continue? 4=Y 1=N. Press key 4 to set price and temperature settings to factory default settings.

Coke Factory Setup **Set Shelf Offset – 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 Offset" prompt. The VMC will enter the shelf adjust option and display the current shelf offset position as "Shelf Offset: 900 3310 counts = 1 inch". To adjust Shelf (Y) Offset (up and down), enter a new number and press the "*" key to save and display will show "#### Offset recorded. Then press "CLR" to go back to "Shelf Offset". Go to Position Test and check the plunger is contacting the targets correctly.

Coke Factory Setup **Position Test –Test Delivery Cup to column selected:**

This sub menu will be used to test the vend mechanism alignment to specific columns confirming the proper X belt tension. Note: The left door switch must be pulled to the out position to perform this test. **Caution: XY needs to be in the home position before performing this test.** If you look at the control board the green, amber (yellow), and red lights should be on at this time. If not please check the following: Green light is for home switch on bottom of port cup, amber (yellow) light is for home

switch on left side of Y motor assembly, red light is for home switch for picker cup plunger. Press the number 4 key and the display will show a set of numbers (i.e. ##### # ##### #). To position test press the following:

- a. Shelf letter (A,B,C,D,E) to travel to selected shelf.
- b. Column number (1,2,3,4,5,6,7,8, & 9) to travel to selected column.
- c. Key "0" to cycle cup plunger to hit column target.
- d. Key "F" to return cup to home position.
- e. Key "*" is all stop.
- f. Press "CLR" key to return to "Position Test".

Coke Factory Setup

Set Hook Offset – Test Delivery Cup to Port

Alignment:

This sub menu will be used to test the vend mechanism alignment to the port area confirming the proper X belt tension. Adjust Hook Swipe "X" Offset (left to right). Press the number "4" key and the display will show "Hook Swipe #####, 3310 counts = 1 inch". For factory default setting see born on label settings listed on service door. To change the off set, pull the top left (white) door switch in the out position to power the XY motors. Press the "*" key once will automatically run the Delivery Cup Assembly to the swipe position and allow specific vender coordinates to be changed and saved in the control board memory. Use the numbers on the key pad to change the coordinates. Press the "*" key to save the new setting and the Delivery Cup Assy. will automatically go to the "Home" position, then move back to the swipe position again. Press the "*" key to send the Delivery Cup Assy. back to the "Home" position and the programming will return to "Set Hook Offset". Press key 2 to go to next menu item.

Coke Factory Setup

Cup Sensor On/Off – Turns Delivery Cup

Sensor On & Off:

This sub menu will be used to set the Cup Sensor On or Off. Press key 4 and the display will show "Cup Sensor On". Press the "4" key to toggle the Extended Cup to the On setting. Factory default setting beginning with software revision 700.21 is on. Note: Cup Sensor Off setting is used in BevMax 4 with non Z Cup Coke Venders manufactured prior to run 8843AH. Cup Sensor On is used in all BevMax 4 Venders produced on run 8843AH & higher or if there is a problem in the cup the sensor can be turned off. Press key 1 to return to "Cup Sensor On/Off".

Coke Factory Setup

Cup Test – Turns Delivery Cup Sensor On & Off:

This sub menu will be used to test the operation of the Delivery (Picker) Cup Assy and Sensor. Press key 4 and the display will show "Cup Test". Press key 4 and the display will show "On:0 In:0 Out:0 Hm:1". Note: The left door switch must be pulled to the out position to perform this test. **Caution: XY needs to be in the home position before performing this test.** Press the "*" key and the display will show "Cup Sensor On/Off On:0 In:0 Out:0 Hm:1". Press the "*" key to toggle the Cup Sensor to the Off setting. To test the Cup with the Cup Sensor On, press the "*" key and Display will show "Cup Sensor On - On:1 In:0 Out:0 Hm:1". To perform tests press the following:

- a. Shelf letter (A,B,C,D,E) to travel to selected shelf.
- b. Column number (1,2,3,4,5,6,7,8, & 9) to travel to selected column.
- c. Key "0" to cycle cup plunger to hit column target. The Out:0 will change to 1 momentarily and back to 0 and the Hm:1 will change to 0 momentarily and back to 1.
- d. Key "F" to return cup to home position.
- e. If the delivery cup has a cup sensor in it, place a package in the delivery cup and the In:0 will change to In:1, remove package and it will change to In:0.

There are 4 pieces of data shown on the display labeled as "On", "In", "Out", and "Hm".

"On" indicates whether the delivery cup sensor if present is turned on or off. A "1" indicates it is on and a "0" indicates it is off.

"In" indicates whether the delivery cup sensor detects product in the cup. In order to be detected the product must be placed in the cup after the sensor was turned on. If a product is in the cup when the sensor is turned on, the sensor will not detect it. A "1" indicates product is detected and a "0" indicates it is not. When the sensor is turned off, there will be a "0" regardless of whether product is in the cup or not. The Yellow LED on the controller also will be on when a "1" is displayed.

"Out" indicates whether the picker out switch is closed. A "1" indicates that the picker out switch is closed and a "0" indicates it is opened (plunger at home position). Please note that the switch is moved by the cam, not the picker. Pulling the picker out by hand will not activate the switch. The cam position

is what activates the switch. The motor must actually drive the picker out and it must be all the way out in order for the switch to detect it is out. The Green LED on the controller also will be on when a “1” is displayed.

“Hm” indicates whether the picker home switch is closed. A “1” indicates that the picker home switch is closed (plunger at home position) and a “0” indicates it is opened. This switch is moved by the plunger, pulling the plunger out by hand will turn the switch off. The Red LED on the controller will also be on when a “1” is displayed.

Coke Factory Setup

Port Test – Test the operation of the Port :

This sub menu will be used to test the operation of the Port Cup Assy and Port Sensor. Press the number 4 key and the display will show four numbers “####”. The 1st # is Port Open switch and 0 = Port not open or 1 = Port opened. The 2nd # is Port Closed switch and 0 = Port not closed or 1 Port closed. The 3rd # is Sensor and 1 = Sensor on or 0 = Sensor off. The 4th # is Vend detect (only if Sensor is on) 0 = No product in port or 1 Product in port. To test the port press the following:

- a. Key “A” to open port. Display 1####.
- b. Key “B” to close port. Display 0####
- c. Key “C” to turn sensor on. When turned on and something is placed in the port a red LED will light on the board. Display ##1#.
- d. Key “D” to turn sensor off. Display ##0#.
- e. Key “*” All Stop on any of these tests.
- f. Key “CLR” to return to “Port Test”.

Coke Factory Setup

Set Shelf Config – Allows for shelf configuration to be set:

This submenu allows the service technician to program the electronics to match the different settings available for the shelves. These settings are available to vend different package heights. The factory default setting is Shelf Setting D2. Press the number “4” on the keypad and display will show “Set Shelf Config”. Press the “4” key and display will show current setting. To change the setting press key 4 until the current setting flashes. Press 2 to scroll through the following: A = G setting, B = M1 setting, C = M2 setting, D = D setting, E = E setting, F = E1 setting, 1 = D2 setting, 2 = E3 setting, & 3 = E4 setting. D2 = BM3 5800-4 domestic setting. Note Shelf settings G, M1, & M2 settings are used in venders prior to 8487-0001AE. Shelf settings D, E, & E1 settings are used in venders 8487-0001AE to 8900-0001BH. Shelf settings D2 is setting used in all domestic BevMax 4 5800-4 venders and E3 (5 shelf

Export) & E4 (4 shelf Export) are used in export BevMax 4 5800-E4 venders 8900-0001BH and higher. Once the desired setting is showing on the display press the “4” key to save the setting. Note: all shelf settings have to be physically set to match the programmed setting. You can not set the physical shelf settings differently. Press the “1” key to return to “Set Shelf Location”. Press the “2” key to scroll to the next menu item below.

Coke Factory Setup

Master Reset – Allows for Vender settings to be changed to factory default setting:

This submenu allows the service technician to restore factory defaults to the machine or reset the Controller Board’s memory after installing a new EPROM. Since this feature resets interval sales data, care should be taken prior to using. Press key “4” on the keypad and “MASTER RESET” will show on the display. Press the “4” key and the display will read “Master Reset Continue? 4 = Y 1 = N. To reset press the “4” Key and display will show “Resetting” then show software version and then the idle message will scroll. Press the 1 Key to return to “Master Reset”. Please see table below for programming options effected by MASTER RESET. NOTE: A power out error message will be generated when a master reset is performed. The table outlines the results of using MASTER RESET.

ITEM	RESET TO
Tube Fill	Cleared
Cash Counters each select	\$0.00
Sales Counters each select	0
Price Program	99.95
StS Programming	Option 1
Config 1	0 (single price)
Config 2	0 (disabled or off)
Config 3	0 (enabled or on)
Config 4	0 (disabled or off)
Config 5	0 (disabled or off)
Config 6	Not used
Config 7	0 (disabled or off)
Config 8	0 (disabled or off)
Config 9	0 (disabled or off)
Config 10	0 (escrow bill)
Correct Change	0 (disabled or off)
Preview Password	Reset to 4231
Language	English
Tim Programming	0 (disabled or off)
Lighting Control	0 (disabled or off)
Refrigeration	Set point 35°F
Select Block 1	0 (disabled or off)
Select Block 2	0 (disabled or off)
Select Discount	0 (disabled or off)
Health Safety	0 (disabled or off)
Over-ride Switch	0 (disabled or off)
Remote Vend Mech	0 (disabled or off)
Combo Vend Discount	0 (disabled or off)

Coke Factory Setup

Update Software – Allows for manual software loading as needed:

This submenu allows the service technician to manually load software if needed. New software automatically loads on power up. **Caution:** If this mode is entered with no EPROM installed in controller, it will cause control board failure. The following information describes how to update software. All new software revisions will automatically update the software revision in the control board. **Important:** EPROM's containing software are sensitive to Electrostatic Discharge (ESD). Failure to handle the Eprom carefully could cause damage, which may result in a failed control board. **ALWAYS KEEP THE EPROM IN THE ESD TUBE. GROUND YOURSELF ON THE VENDER CABINET BEFORE REMOVING THE EPROM FROM THE ESD TUBE OR CONTROL BOARD. AN EPROM CAN BE USED TO PROGRAM MANY VENDERS, AS LONG AS CARE IS TAKEN NOT TO DAMAGE THE EPROMS LEGS. ALWAYS TURN POWER OFF BEFORE REMOVING OR INSTALLING EPROMS IN THE CONTROL BOARD.** Important Notes: Use the programming section of the manual to program the vender.

1. EPROM Removal:
 - a. Power down the Vender. Ground yourself on the vender cabinet before removing the EPROM from the ESD tube or control board.
 - b. If an Eprom is present in the control board, remove the existing Eprom.
 - i. Note; An Eprom does not need to be in the control board after the control board has been programmed. The Eprom can be used to program other boards.
 - c. Verify the pins of the new Eprom are not bent before installing in the Eprom socket.
 - d. Install the new Eprom in the Eprom socket. Ensure the Eprom is oriented correctly with its reference marker (locator) in the same direction as the reference marker (locator) of the Eprom socket. Do not rely on the Eprom label for orientating the Eprom.
2. Automatic Reprogramming:
 - a. Turn power on to Vender. When auto-updating the display will show old version for a few seconds while the red LED on the control board blinks.
 - b. Display will change to "EPROM UPGRADE..." for approximately 10 seconds with the green LED rapidly blinking.
 - c. Display will change to new version software with red LED blinking at a steady heart beat rate.
3. Manual Reprogramming (used if Eprom does not automatically reprogram):

- a. At power up, the current software version will be displayed. To manually program the control board with the new software, press the service switch on the control board to enter service menus. Advance to "UPDATE SOFTWARE".
- b. Press the "4" Key. The Display will show Continue? 4 = Y 1 = N.
- c. Press the "4" key for yes to continue. The Display will show one of the following messages: "EPROM not installed, EPROM is corrupt, EPROM mismatch, EPROM version same, or EPROM version older". If Display shows EPROM version older force? 8 = Y 1 = N. Press the 8 key to force new eprom in memory. **IMPORTANT:** for all other messages (EPROM not installed, EPROM is corrupt, EPROM mismatch, EPROM version same) press 1 not to force (if you press 8 on these the board will be locked and you will need to replace it and return it to the factory to be repaired).
- d. Display will show "Reprogramming Vendor" while the yellow LED blinks. . Display will show new software revision, then return to stand by. This confirms new software has been successfully updated.

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

Coke Factory Setup

Double Talk – Turns Double Talk feature On & Off

The function is used to turn on or turn off the "Double Talk" feature. Press the number "4" key and "Double Talk" will show on display. Press the "4" Key and display will show current state "On" or "Off". Press "2" to toggle from On to Off. With the display showing the state you wish the mode to be in, press the "4" key. Press key 1 to return "Double Talk".

Coke Factory Setup

Build Number ### – Displays current software build number

This sub menu will be used to show the current software build number being used. Press key 4 and the display will show "Build Number ####". Where #### is the software build number significant to Dixie-Narco engineering. Press the "1" Key to return to "BevMax Setup".

Coke Factory Setup

Sold Out Enable- Should be "ON"

Press key 4 to enter menu, Use Vend Sensor, "ON" or "OFF" will display. Press key 4 and the current setting will flash. Press key 2 to change the setting. Press key 4 to the setting will stop flashing and is set. Press key "1" to exit menu.

Coke Factory Setup

\$ Enable-

Press key 4 to enter menu. Use Dollar sign, "ON" or "OFF" will display. Press key 4 and current setting will flash. Press key 2 to change setting. Press key 1 to exit menu.

Coke Factory Setup

Enable EXE -

Use this menu to set the VMC for EXE peripheral communication. If the EXE is OFF, then the VMC will communicate with MDB peripherals. (Note: factory default is OFF. If the EXE is ON, then the VMC will not communicate with MDB peripherals. When the EXE is ON, additional configuration menus will be made available in the standard setup menus following Price Program. They include "Price Mode", "Price Program", "View PL Assignments", "View PL Value" & "Quick Payback". To enable EXE communications: Press key 4 to select this menu. You will see the current setting. Press key 4 to edit the setting. You will see the current setting begin to flash. Press key 2 to change the setting. Select "ON" or "OFF." Press key 4 to confirm the change. You will see the current setting stop flashing. Press key 1 to exit menu.

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". Note: The left door switch must be pulled to the out position to perform this test. 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 a row of lower case letters "a" through "t" will display, then turn off, then a row of upper case letters "A" through "T" will display alternating 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".

Satellite (137/937) Setups

Satellite (137/937) Setup

Enable Snack Vender – Snack Vender Enable on or off:

This sub menu is used to enable and disable the Snack Vender attached to the BevMax 4. 0 = off, 1 = on. Press key number 4 and "#" will start flashing. Press key number 2 or 3 to scroll between "Snack Vender Enable 0" and "Snack Vender Enable 1". Press key number 4 with the display blinking the setting you wish to use. Display will return to "Snack Vender". To set prices you must set vender for multiprice price setting routine and return to Price Program. Press key number 2 to scroll to next menu item.

Satellite (137/937) Setup

Golden-Eye Policy – Golden-Eye operating condition:

This sub menu is used to set the operating condition of Golden-Eye. Note: Selections are enabled/disabled in Set Golden-Eye Sel Mode. Press key number 4 and the display will show the

current state of “Golden-Eye Policy Drop” or “Golden-Eye Policy Home”. Home = motor will always return to the home position after a product drop failure and Drop = motor will rotate one complete revolution, pause, then stop upon detection of product falling into bin (may leave the spiral in mid cycle). Important: If you use Drop feature, before filling the Satellite (137/937) machine you should press the service mode switch on the control board and then press the door interlock switch on the Satellite (137/937) to force a scan of the snack motors and return them to the normal home position. Failure to do this may result in Full Selections Being Left Out Of Order or spirals dropping products after the machine has been filled. Press key number 2 or 3 to scroll between “Golden-Eye Policy Drop” or “Golden-Eye Policy Home”. Press key number 4 with the display showing the setting you wish to use. Display will return to “Golden-Eye Policy”.

Press key number 2 to scroll to next menu item.

Satellite (137/937) Setup

Set Golden-Eye Sel – Golden-Eye operating condition:

This sub menu is used to set up the Golden-Eye Selections. Press key number 4 and display will show “Set Golden-Eye Sel Sel: ### 1(0)” where ### is the column number and the 1 = enabled or 0 = disabled. Press key 4 and the 1(0) will start flashing, press key 2 to toggle between 1 and 0. With the display showing the condition you wish to use press key 4 to save. Display will show column & setting selected. Press key 2 to scroll to next column and repeat for all columns as needed. Press key 1 to return to “Set Golden-Eye Sel “. Press key number 2 to scroll to next menu item.

Satellite (137/937) Setup

Snack MotorScan – Verify State of Satellite (137/937) Motors:

This sub menu is used to verify the state of the selection motors in the Satellite (137/937) Vender. Press key number 4 and display will show “Snack Motor Scan Execute Motor Scan?”. Press key number 4 and the display will show the results of the last motor scan test. Press key 2 to scroll through the results. Press key 4 to initiate a new scan of the motors. The display will say Scanning Motors. When scan is complete the display will say Scanning motors done press * to continue. Press key 2 to scroll through the results. The report will show Motor Scan Results Good Motors:## (number of good motors detected), Motor Scan Results Bad Motors:## (number of bad motors detected), and Motor Scan Results Missing Motors:## (number of missing motors detected). Note: If a selection motor runs 3 times without delivering a product the selection is then locked out until a motor scan or door open close occurs. Press key number 1 to return to “Snack Motor Scan”. Press key number 2 to

scroll to next menu item.

Satellite (137/937) Setup

Combo Vend Discnt En – Enable the Combo Vend Discount that has been set:

This sub menu is used to enable and disable the Combo Vend Discount when a Snack Vender is attached to the BevMax 4. 0 = off, 1 = on. Press key number 4 and “#” will start flashing. Press key number 2 or 3 to scroll between “Combo Vend Discount Enable 0” and “Combo Vend Discount Enable 1”. Press key number 4 with the display blinking the setting you wish to use. **Important:** The Multivend option in BevMax programming must be enabled for Combo Vend Discount to function. Display will return to “Combo Vend Discount En”.

Press key number 1 to return to “BevMax Setup”.

Major Component Description

AC DISTRIBUTION BOX

BevMax 4 5800-4/3800-4

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 power to the Controller Board.

DN5800-E4/3800-E4

220 VAC units

Main Power Switch / Plug	Interrupts hot side of incoming power to all components in machine.
Receptacle, Panel Mount IEC 320 (220 VAC)	Provides power to Refrigeration unit.
Transformer (T1)	Provides 24 Volt power to the Controller Board.

Service Door Switches

If 2 Switches - Left Switch (10 Amp) – in XY Motor Circuits, Port Door Motor Circuit, and Picker Motor Circuit (Power Interrupt Switch).

If 2 Switches - Right Switch (.1 Amp) – in Controller Circuit.

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

Domestically the machine must be connected to a dedicated 120 VAC, 15 Amp circuit (U.S. and Canada). Refer to the cabinet serial number plate to determine the correct voltage and frequency for the machine.

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

CAUTION:

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

CLEANING

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

GLASS DOOR

The display glass should be cleaned inside and out with paper towels and glass or non-abrasive all-purpose cleaner. The gasket around the product door should be wiped down using warm

water, any mild general purpose, non-abrasive cleaner and a soft towel. Never lubricate the gasket and always check for cracking or deformities which may cause leaks. Replace if necessary.

VERTICAL LAMP LENS COVER

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

TRAYS / TRAY INSERTS

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

DOOR LIGHTING

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

SLIDE/PUSHER ASSEMBLY

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

CABINET

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

Repair any scratches on painted surfaces to prevent corrosion.

DRAIN PAN, DRAIN TUBE, AND DRAIN HOSE



To prevent mold and mildew growth, and to avoid personal injury or property damage, the drain pan, drain tube, and drain hose must be properly aligned and routed. Ensure nothing obstructs the drain tube or drain hose and that the hose is not

bent, pinched, or twisted in such a way as to prevent the flow of condensate. Periodically inspect the drain pan, drain tube, and drain hose for alignment and the presence of dirt, debris, mold, and mildew. Clean as needed.

WARNING

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

REFRIGERATION CONDENSER

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

COIN ACCEPTOR

Follow the Coin Acceptor Manufacturer's instructions.

LUBRICATING THE VENDER

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

NEW CONTROL BOARD INSTALLATION

Set Model Number. On power up the display will show "Reset Model? Continue? * = Yes CLR = No". Pres the * key and display will show "No Model Set Save? A = ^ (scroll up) * = Yes CLR = No". Press key A to scroll through available model numbers DN5800-4, DN3800-4, DN5800-E4 (export), DN3800-E4 (export). With vender model displayed that you are installing board press the * key to save.

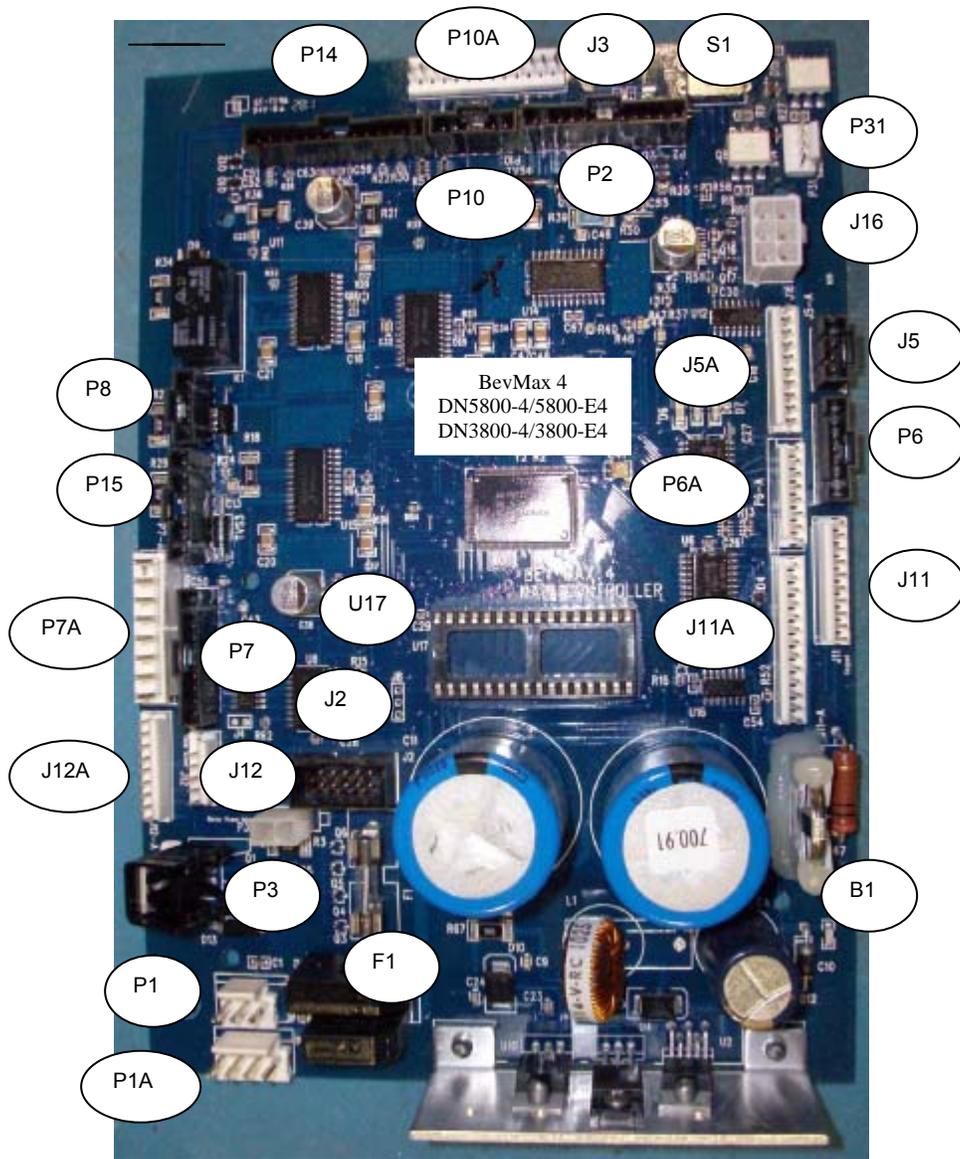
UPDATE SOFTWARE

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.
 - ii. 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.
4. Automatic Reprogramming:
- e. 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.
 - f. Display will change to "EPROM UPGRADE..." for approximately 10 seconds with the green LED rapidly blinking.
 - g. 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.



BEVMAX 4 DN5800-4/3800-4/5800-E4/3800-E4 MDB/EXE CONTROLLER CONNECTIONS

CONNECTION	CONNECTION	DESCRIPTION	CONNECTION	CONNECTION	DESCRIPTION
P1A	P1	Power from AC Distribution Box		F1	Fuse
	P14	Cup Signal & Y Encoder	J5A	J5	DEX
	P15	X Motor & Encoder	J11A	J11	Keypad
	P2	Product Port	J12A	J12	Temp Sensor
P6A	P6	Display		J16	Multi Drop Bus
P7A	P7	Relays		U17	EPROM Socket
	P8	Y & Cup Motors		P3	Door Switch XY
P10A	P10	Door Switch		B1	Battery
	J2	Supplier Programming Connector		S1	Service Switch
	P31	Executive Interface		J3	Dongle Harness

BEVMAX 4 5800-4/3800-4 TROUBLESHOOTING “XY” ISSUES

1. Selection will not vend.
 - a. Does a different selection vend?
 - i. Perform TEST VEND in TEST MODE to ensure proper selection vends.
 - 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 BevMax Setup Coke Factory Setup Position 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 BevMax Setup Coke Factory Setup Set Shelf Offset.
 - 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 control board.
 - 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 BevMax Setup Coke Factory Setup Set Shelf Offset.
 - 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, PICKI or PICKO Error”.
 - i. Syrup/dirt causing plunger or plunger home switches to stick.
 - ii. Replace delivery cup assembly.
 - iii. Replace Control Board.
 1. Software did not attempt to vend.
 - a. Check error list. Does error list show Vend Mechanism error?
 - b. A previous vend operation or vend test failed.
 2. Software has selection identified as sold out.
 3. Selection is disabled for recorded Refrigeration Health Timer or Health Code.
 4. Selection is disabled through Select Block.

- 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 BevMax Setup Coke Factory Setup Set Shelf Offset.
 - c. Plunger Stays Out.
 - i. Check for syrup or dirt build up.
 - ii. Check Harness connections.
 - iii. Replace cup assy.
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.
 - b. At the home position the “X” (top far left) home switch will light an amber LED on the control board.
 - i. Adjust the X drive belt at the bottom left belt clamp.
4. Elevator will not move vertically.
- a. Perform TEST MODE/TEST VEND to test movement.
 - b. Check left side 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 control board.
5. Elevator will not move horizontally.
- a. Perform TEST MODE/TEST VEND to test movement.
 - b. Check left side door switch
 - i. Is it functioning.
 - ii. Is it being made when door is closed.
 - 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.
 - 2. At the home position the “X” (top far left) home switch will light an amber LED on the control board.
 - a. Adjust the X drive belt.
 - d. Check the Delivery Cup Plunger & Plunger Home Switch
 - i. If plunger arm is stuck out it will shut down XY 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.

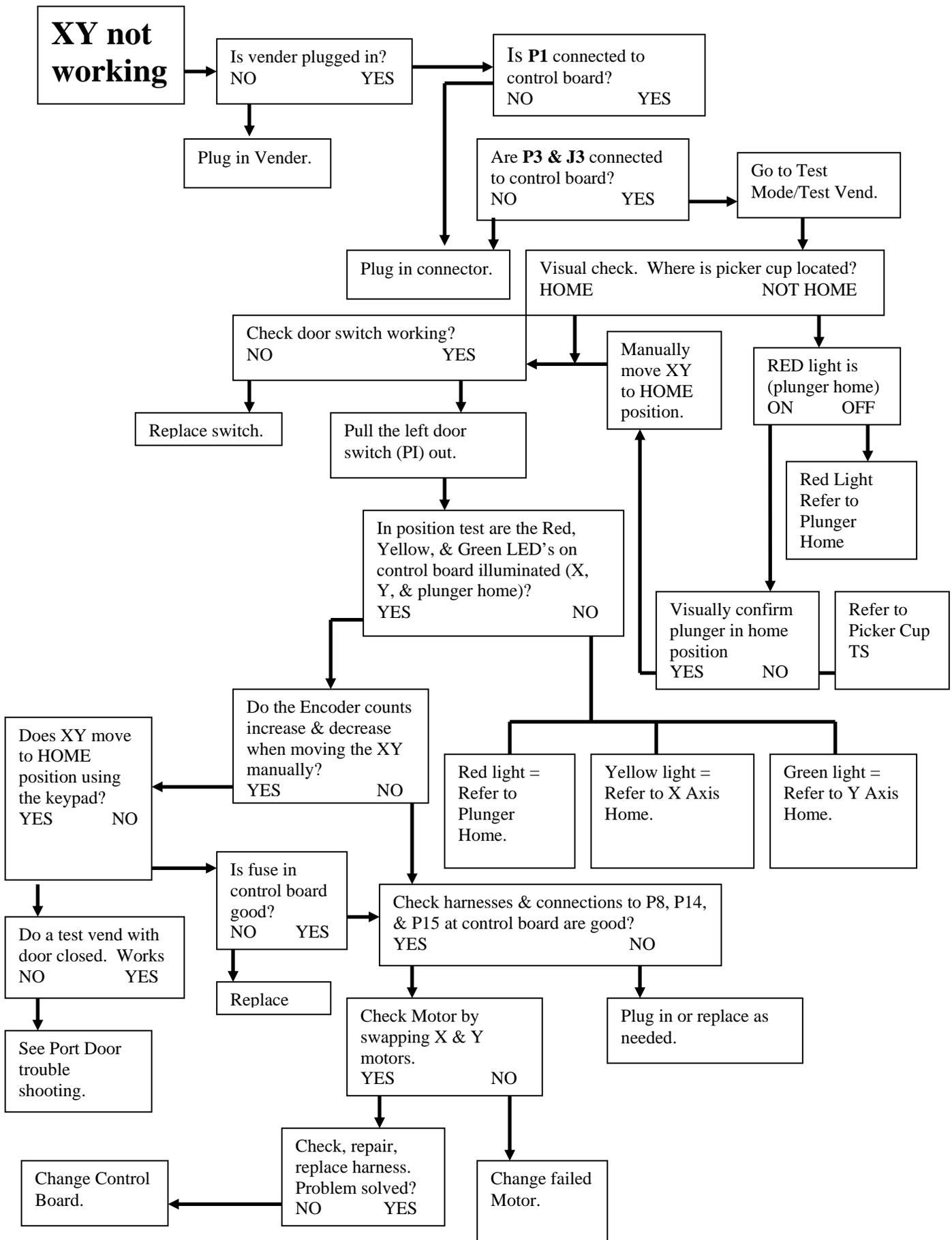
6. Product Will Not Load From Delivery Cup Assembly To Port Assembly.
 - a. Perform TEST MODE/TEST VEND to test movement.
 - b. Check belt tension.
 - c. Check Service Wall Port Door Assembly is securely installed.
 - d. Check the vend mechanism alignment.
 - e. Check the vertical swipe position.

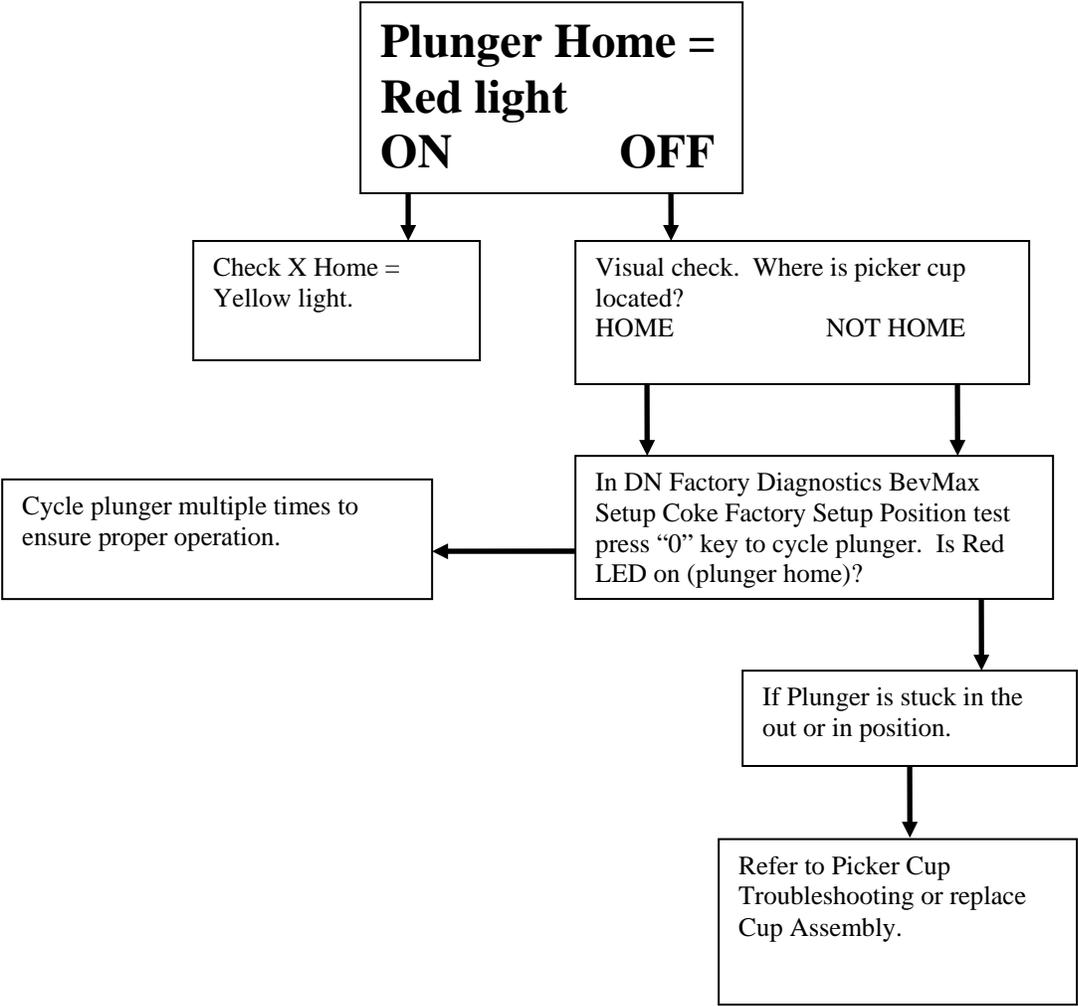
7. Port Assembly On Service Door Will Not Open.
 - a. Perform TEST MODE/TEST VEND test movement.
 1. Port open will light the Amber LED on control board.
 2. Port closed will light the Green LED on control board.
 - b. Check for syrup or dirt build up.
 - c. Replace port assembly.
 - d. Check harness 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.
 - b. Check gear box assy.
 - c. Check pins in gate assy

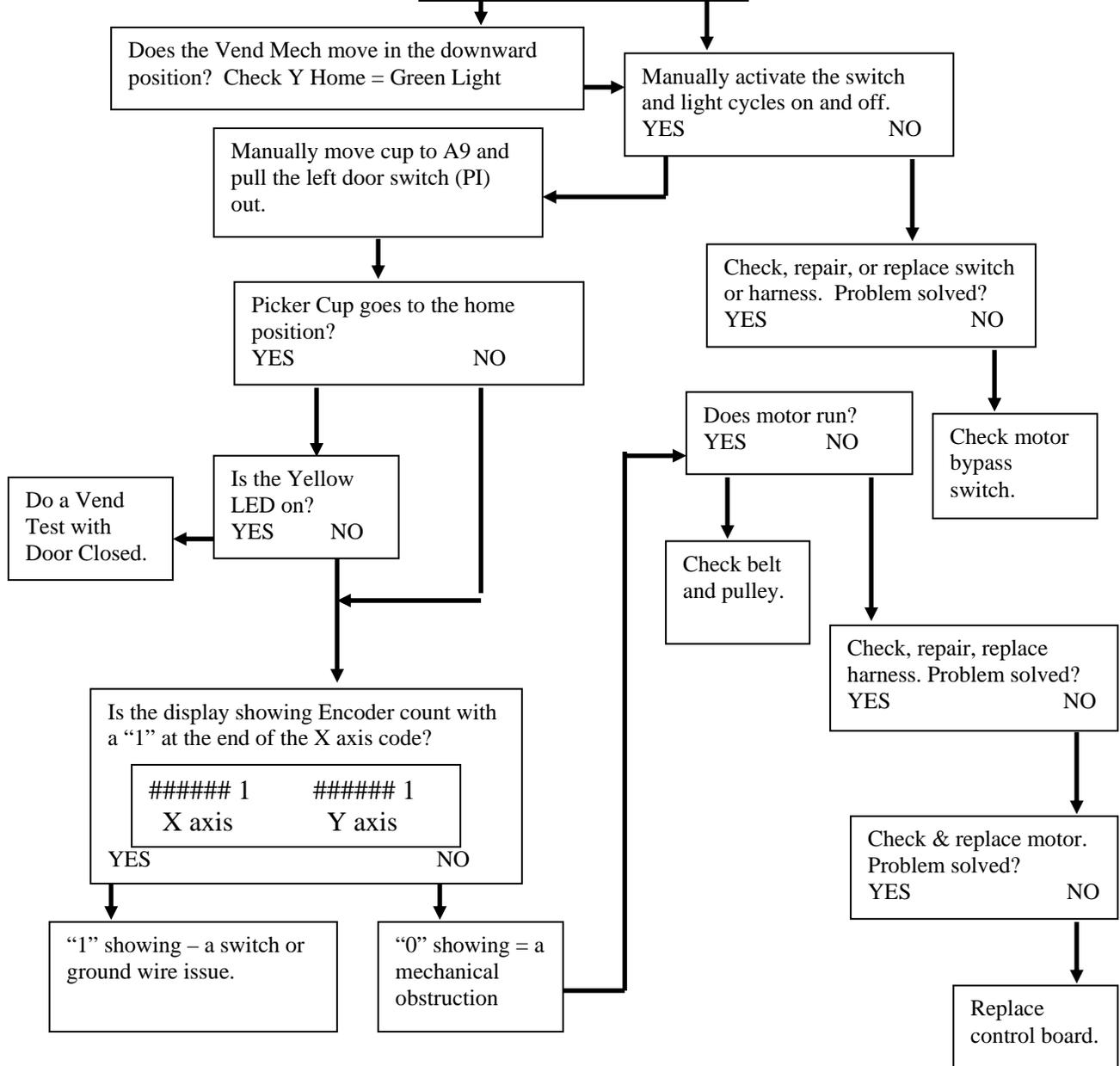
9. Package Not Sliding On Slide Assembly.
 - a. Vender not level.
 - b. Slide not installed correctly.
 - c. Check slide for flash from mold process.
 - d. Slide dirty. Clean and apply Armoral or Food Grade Silicone.

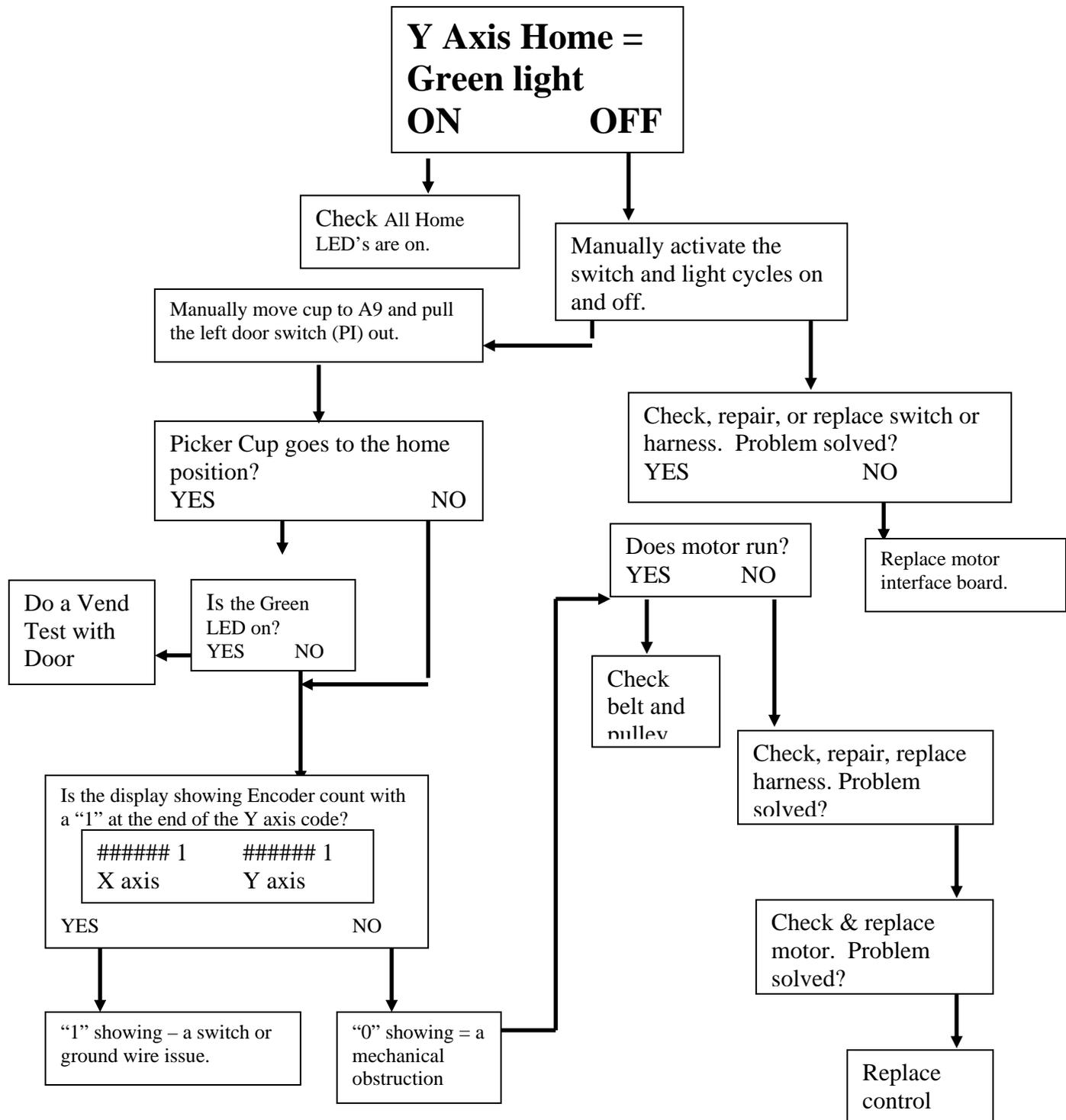
10. Delivery Cup Assembly Caught On Tray
 - a. Check vender is level.
 - b. Check rollers.

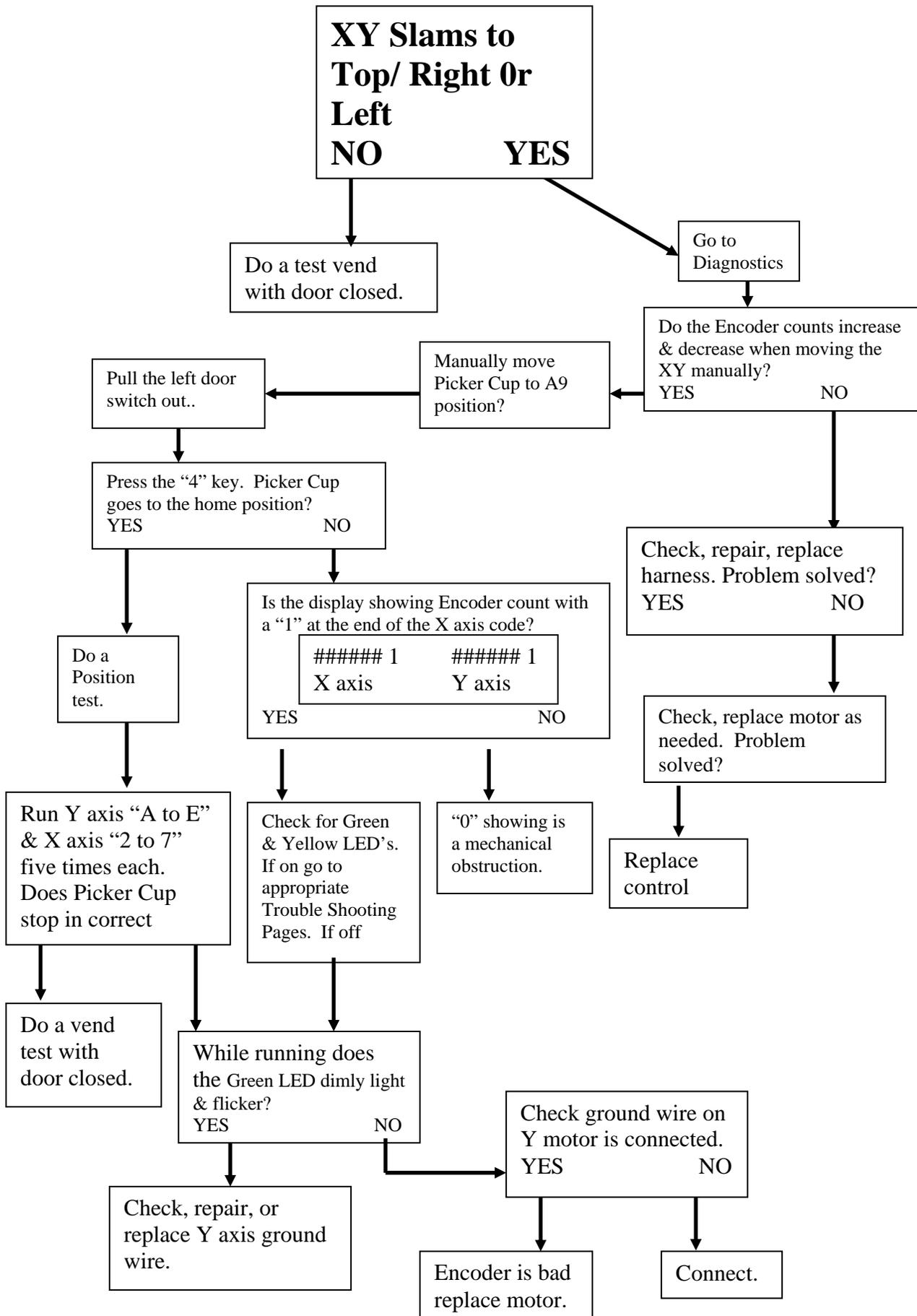


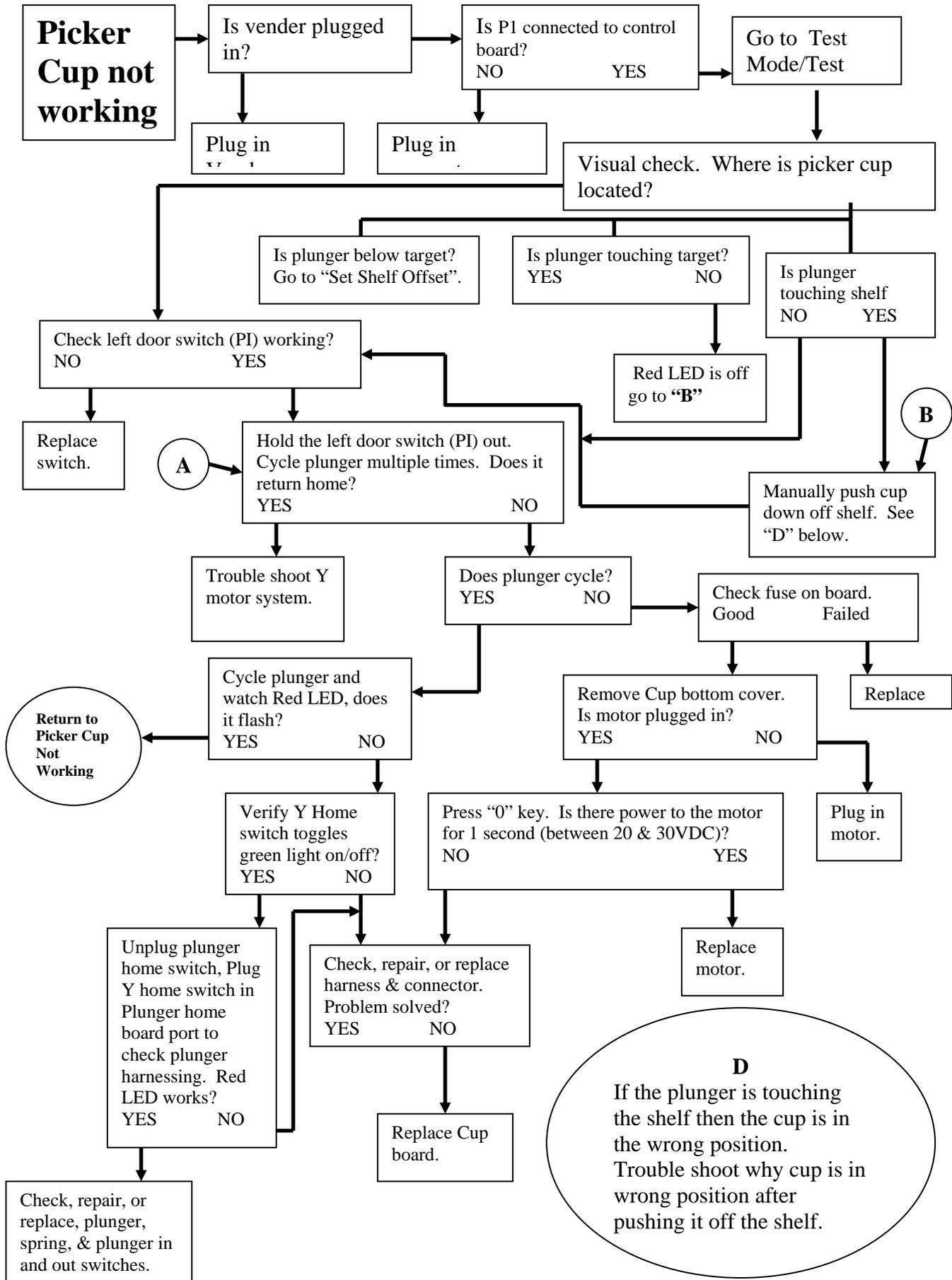


**X Axis Home =
Yellow light
ON OFF**

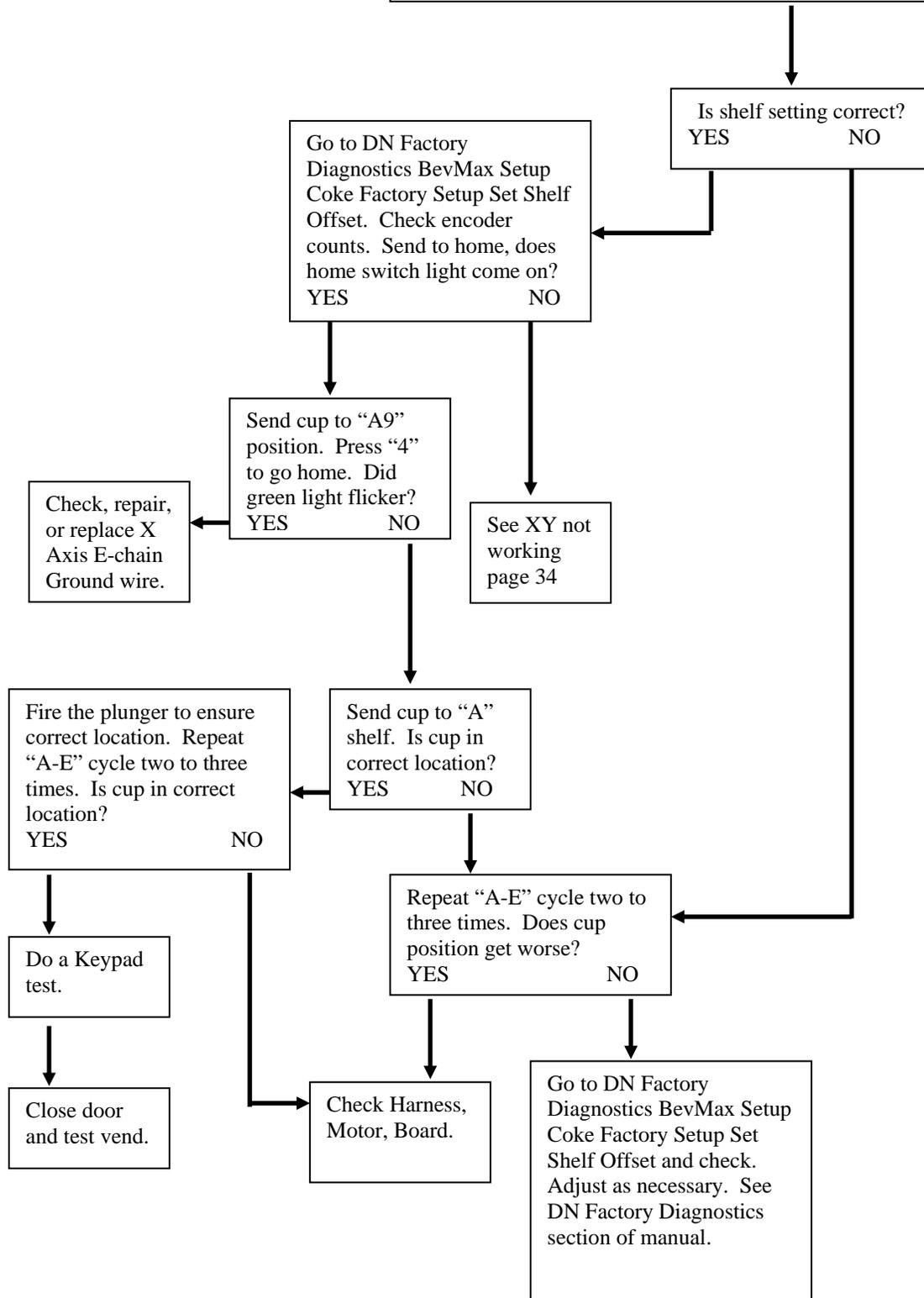




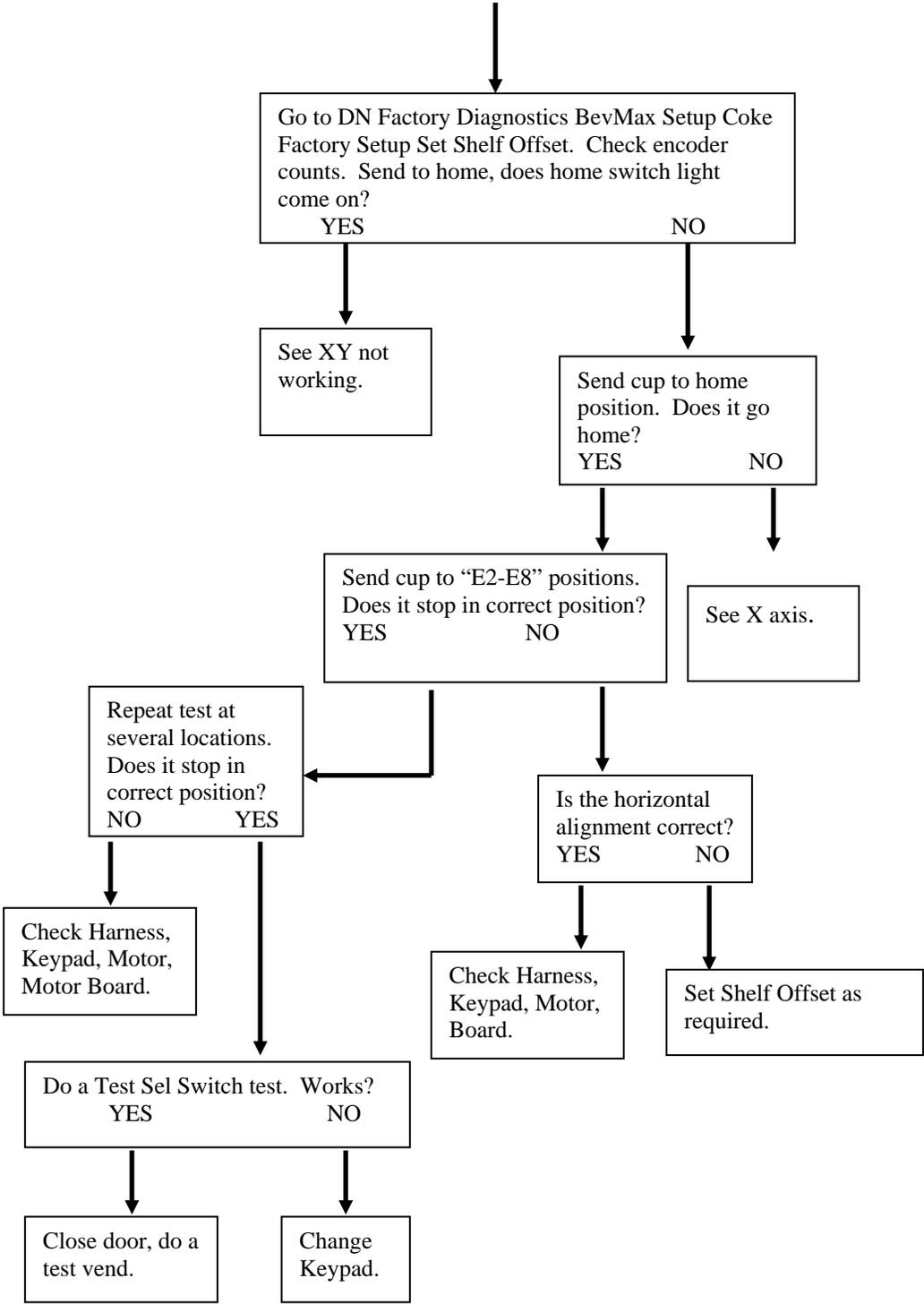




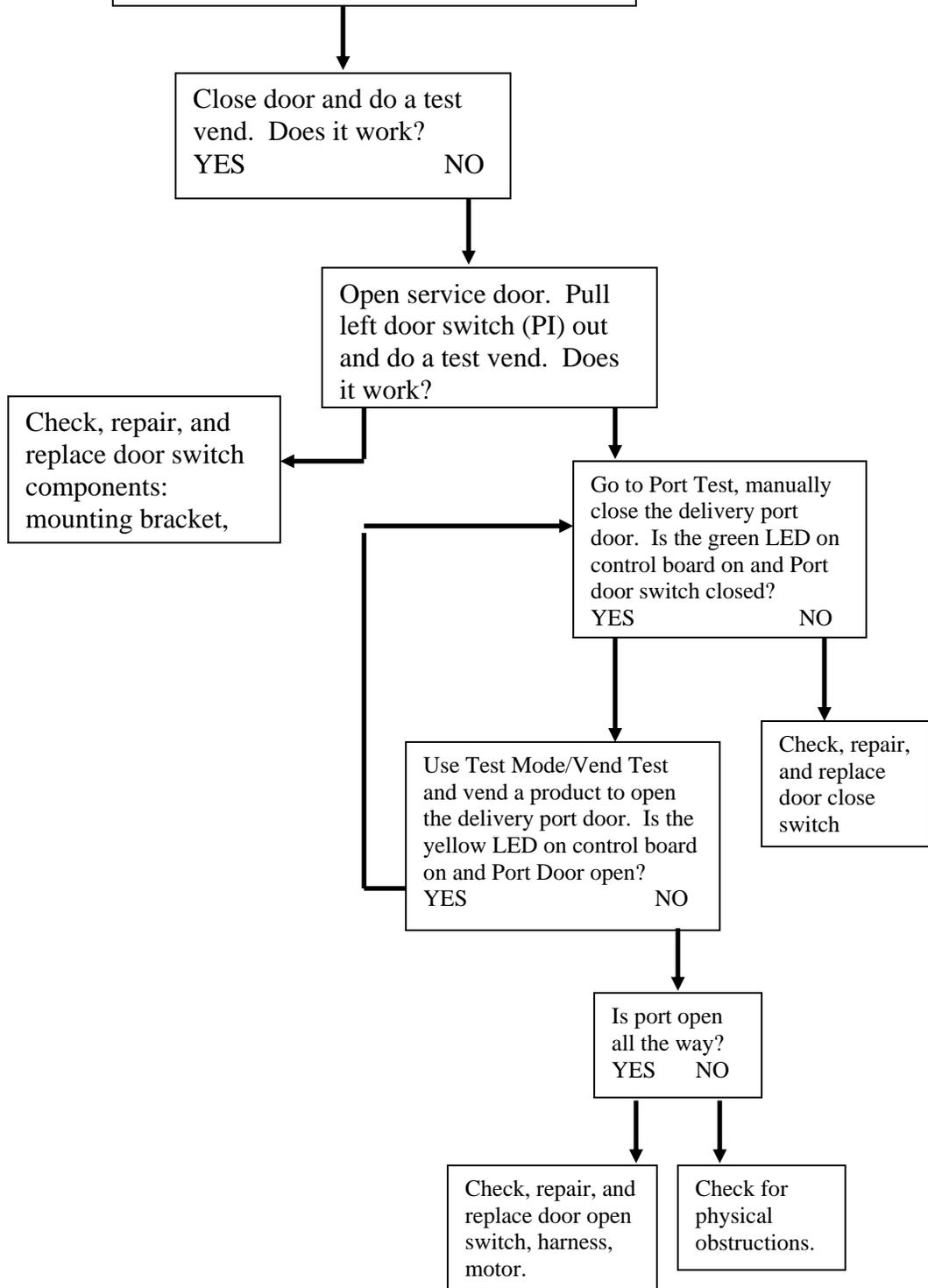
CUP AT WRONG LOCATION HIGH/LOW or Y AXIS



CUP AT WRONG LOCATION LEFT /RIGHT or X AXIS



**DELIVERY PORT DOOR
WORKS IN PORT TEST
BUT NOT IN SALES
MODE**



COIN ACCEPTANCE ISSUES

PROBLEM	CAUSE	FIX
Coins Returned to Customer With No Credit Issued	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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

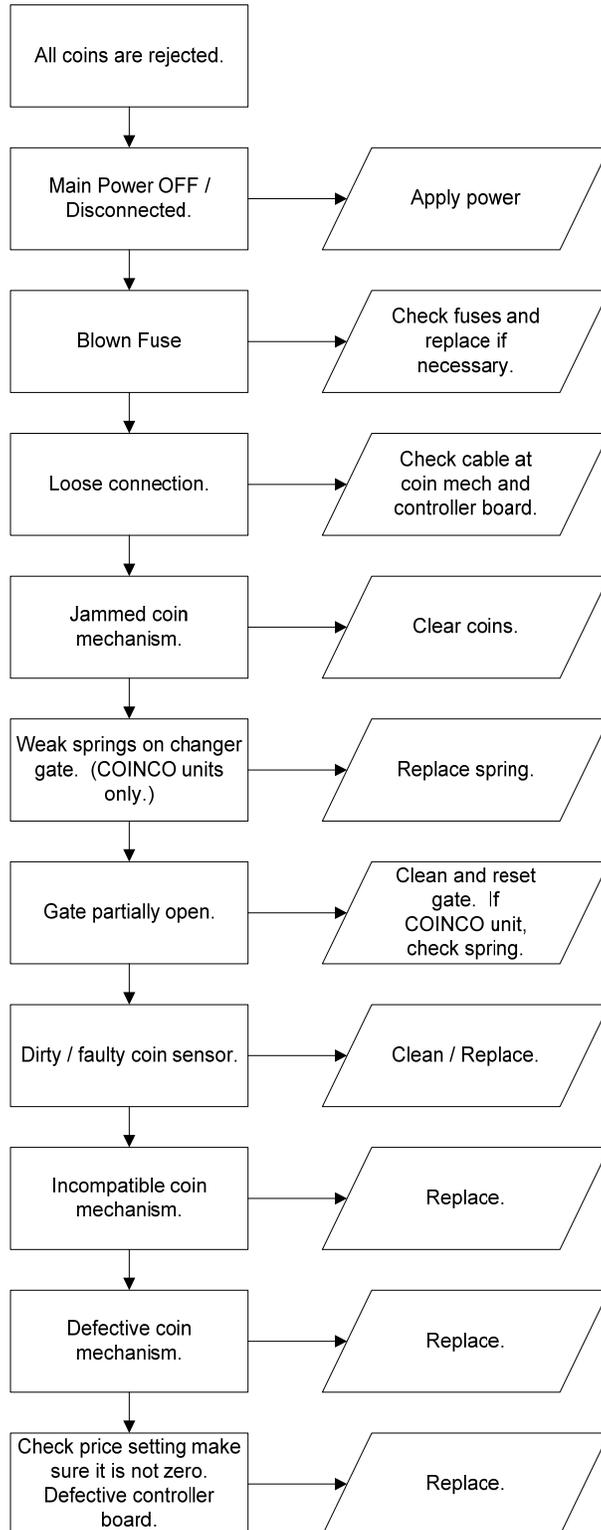
PROBLEM	CAUSE	FIX
Bill Validator will not run.	Prices / tube cash conditions.	Check Mech Tubes.
Takes Bill in Then Rejects it		Check Validator or Replace
Stacks Bill While in Escrow Mode	Max Price Not Yet Reached	
Bill Error Listed in Test Mode	Communication Error with Bill Validator. Bill Validator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

CONTROL BOARD (VMC)

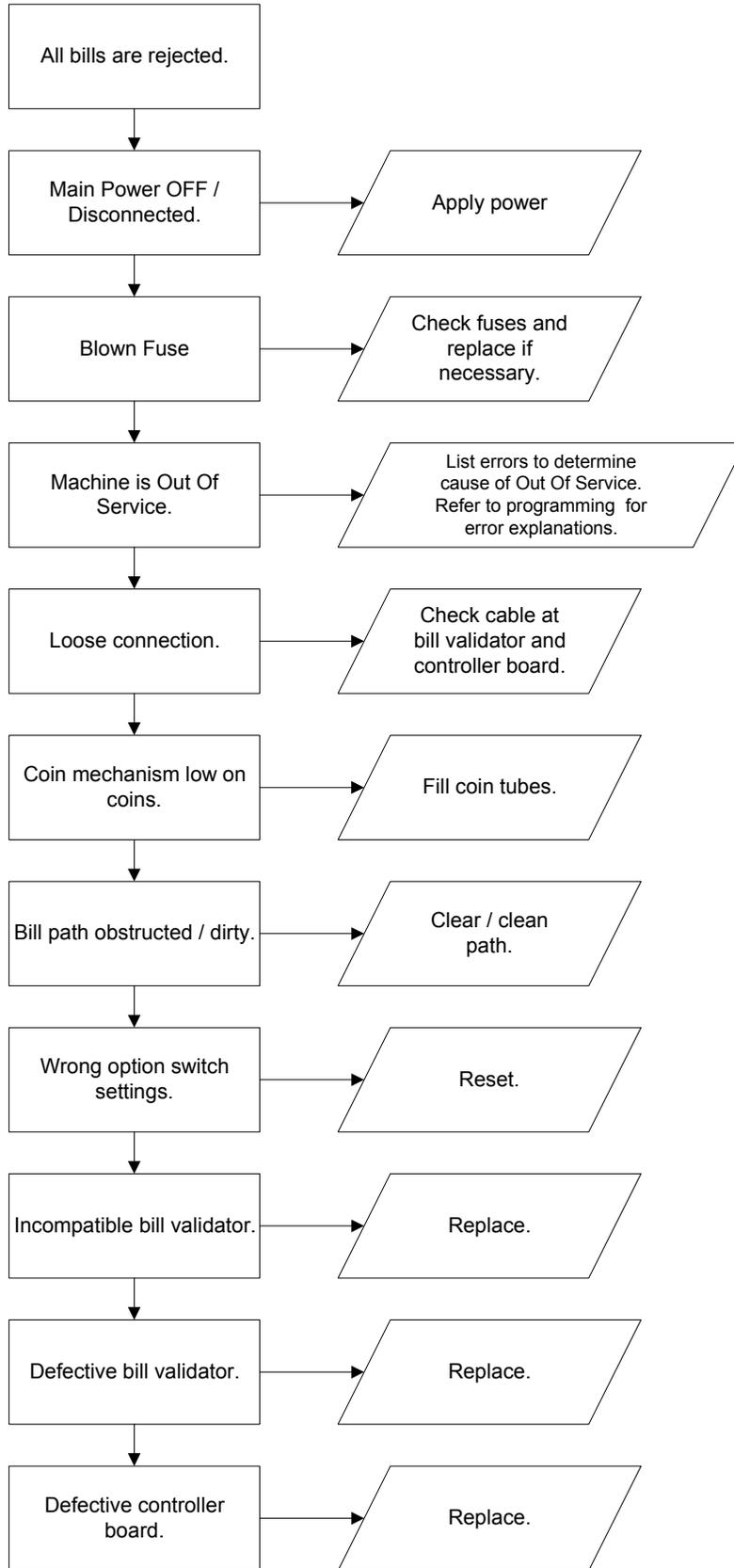
PROBLEM	CAUSE	FIX
No Power to Controller.	AC Box	Replace AC box.
Out of Order or other error codes showing on display	RAM Error	Refer to Programming Section on page 10 for specific error codes and cures.
No Sales Available	No Vendable Selections	Check StS programming

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.

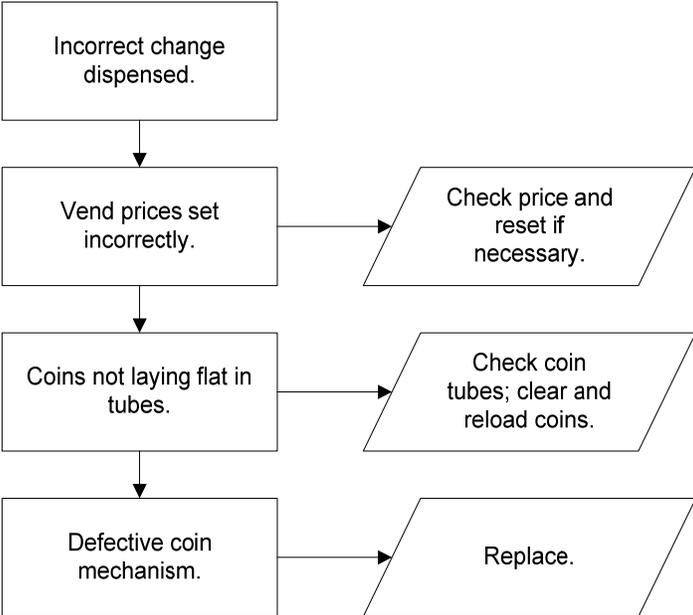
ALL COINS ARE REJECTED



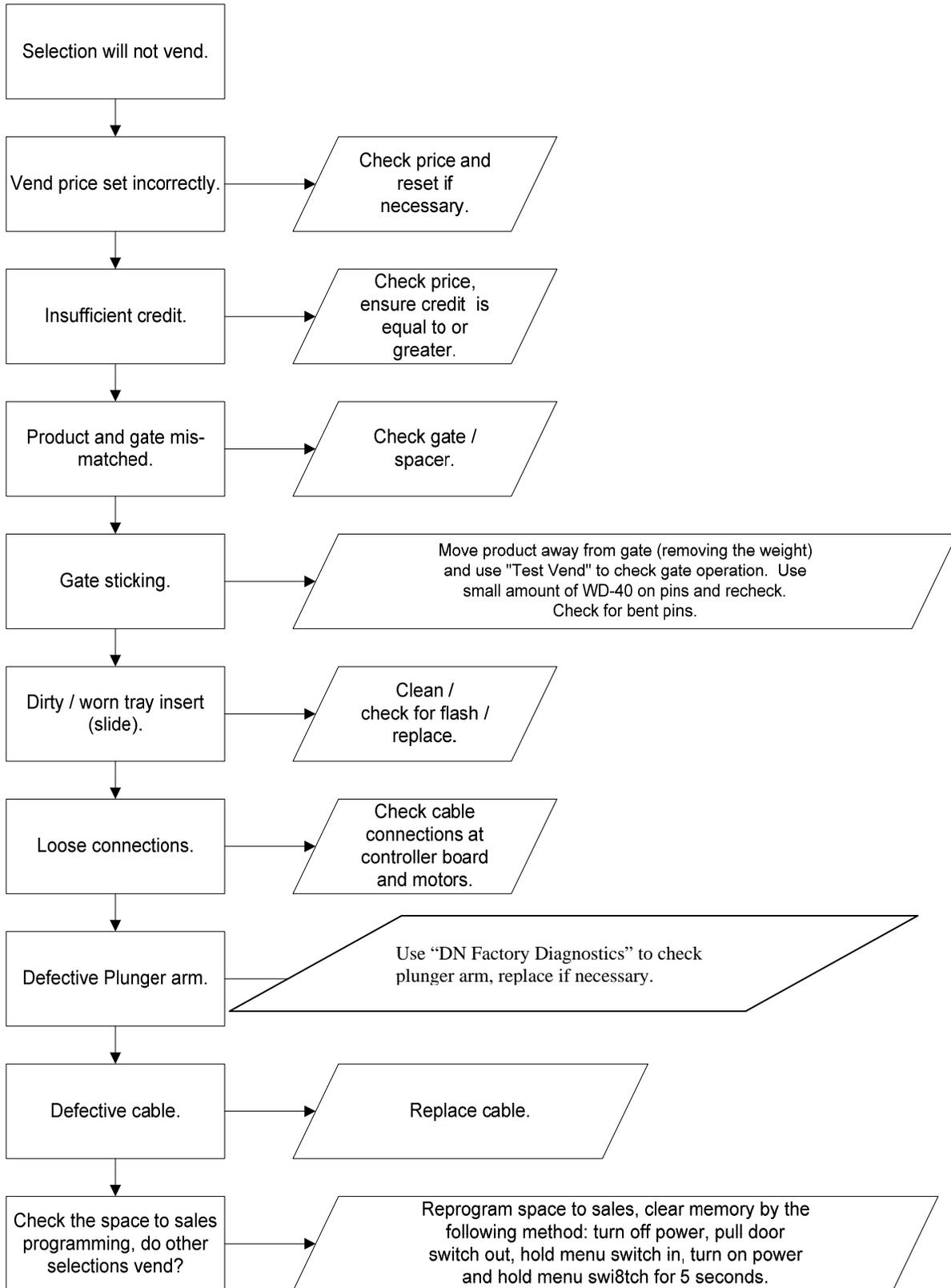
ALL BILLS ARE REJECTED



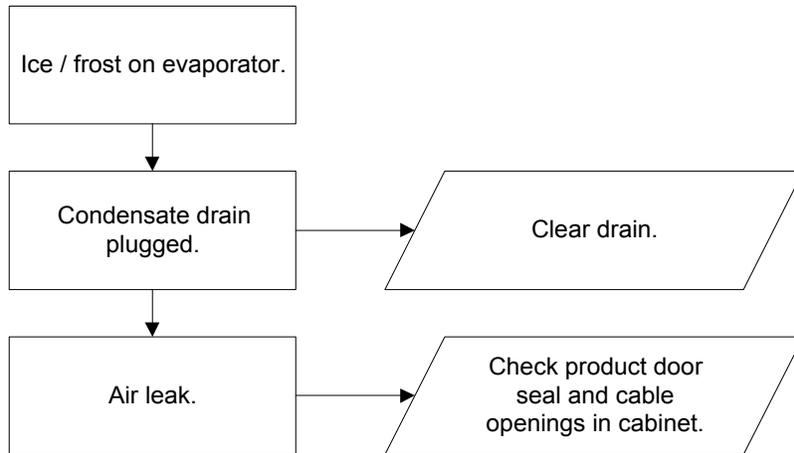
INCORRECT CHANGE DISPENSED



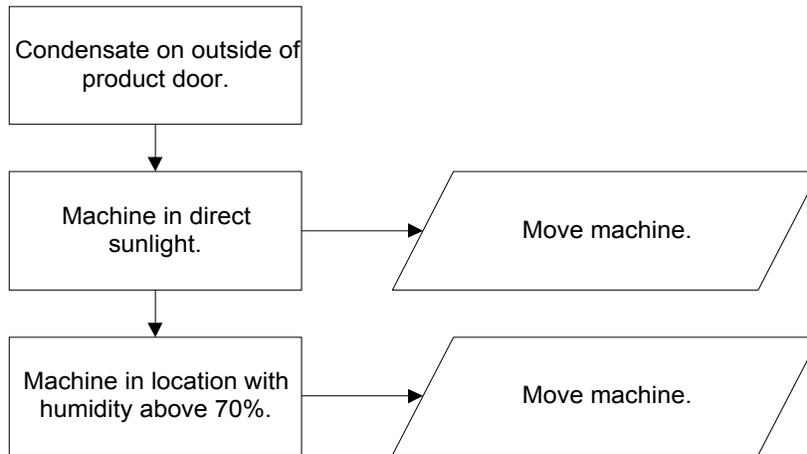
SELECTION WILL NOT VEND



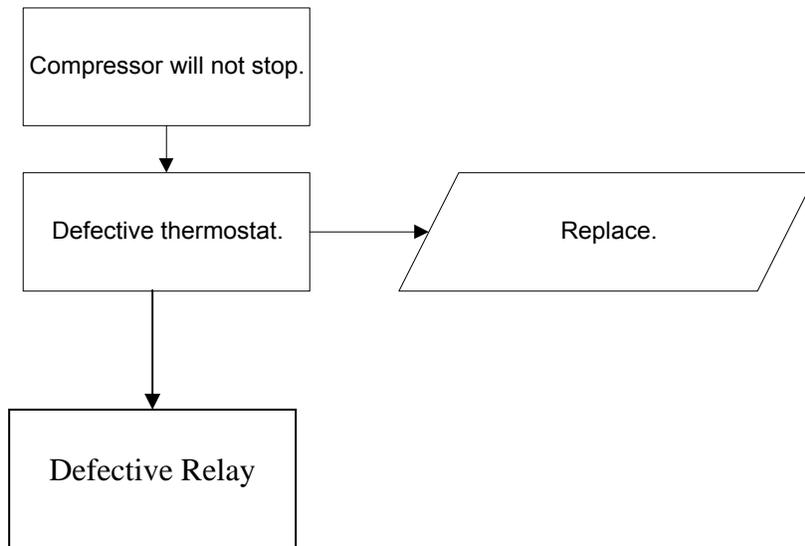
ICE / FROST ON EVAPORATOR



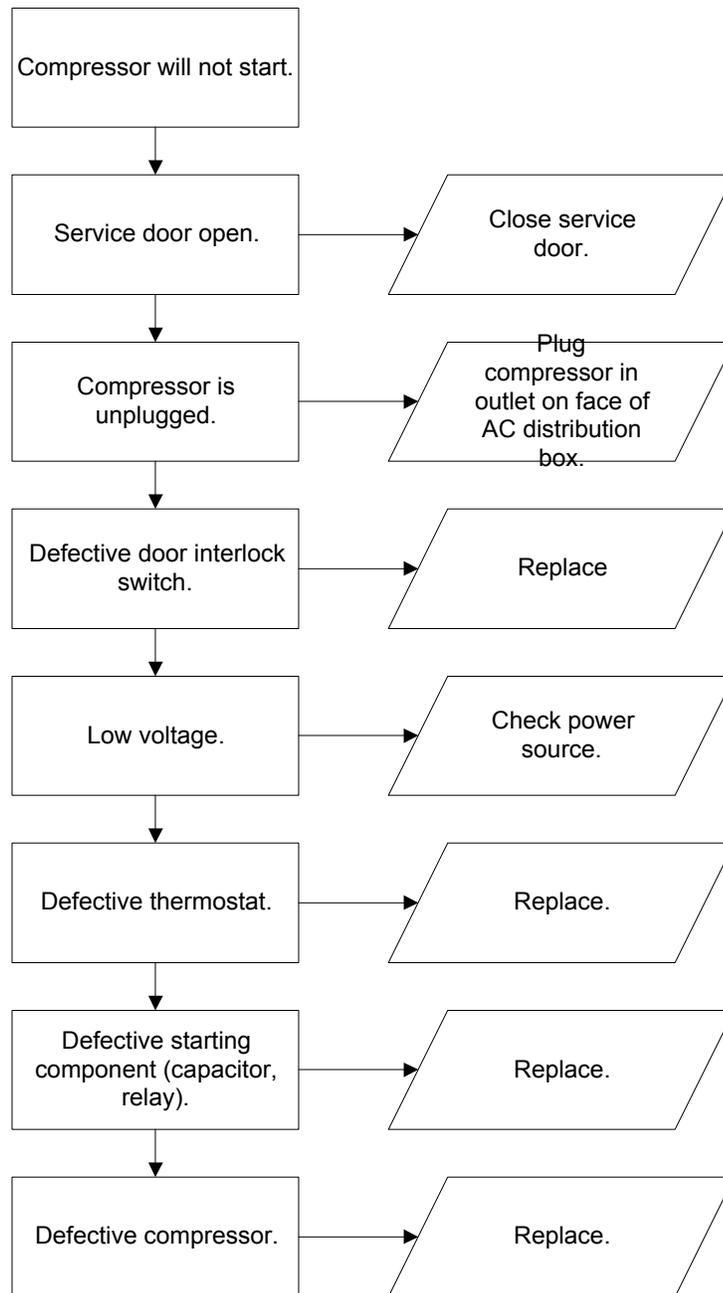
CONDENSATE ON OUTSIDE OF PRODUCT DOOR



COMPRESSOR WILL NOT STOP

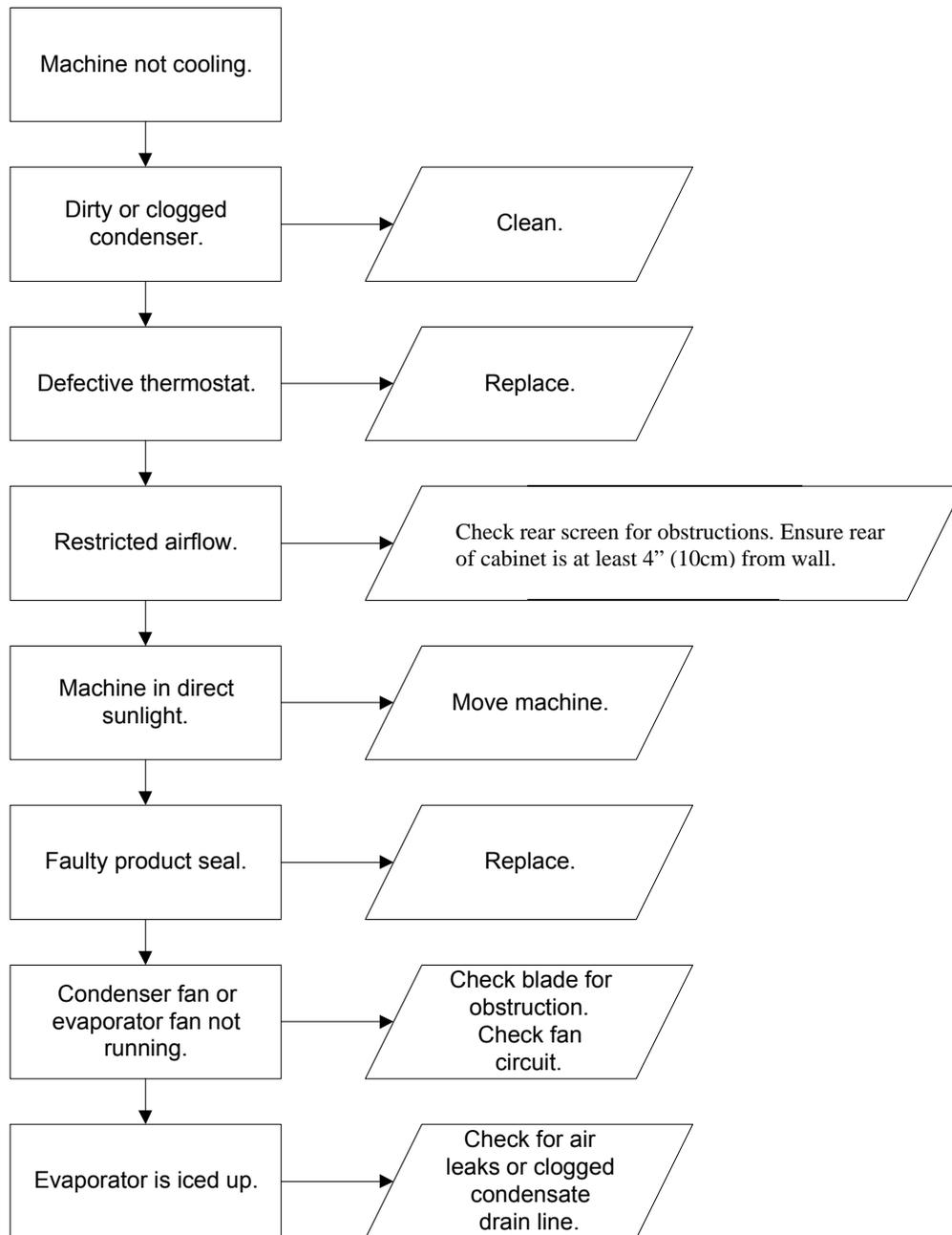


COMPRESSOR WILL NOT START

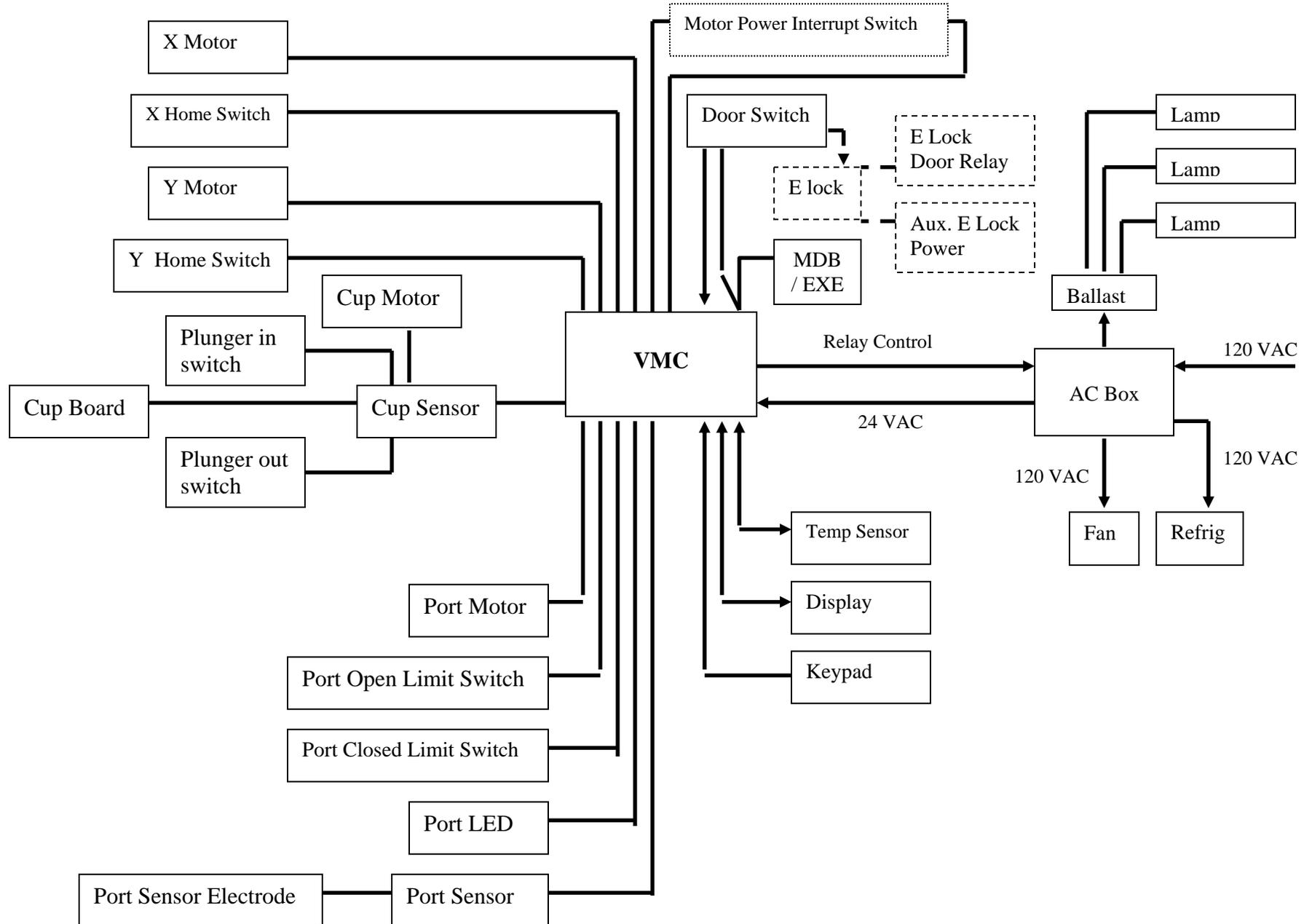


Troubleshooting Tip: Use a short 15 Amp extension cord and plug the compressor directly into the wall outlet. This will bypass the AC distribution box.
Note: For Testing Purposes Only.

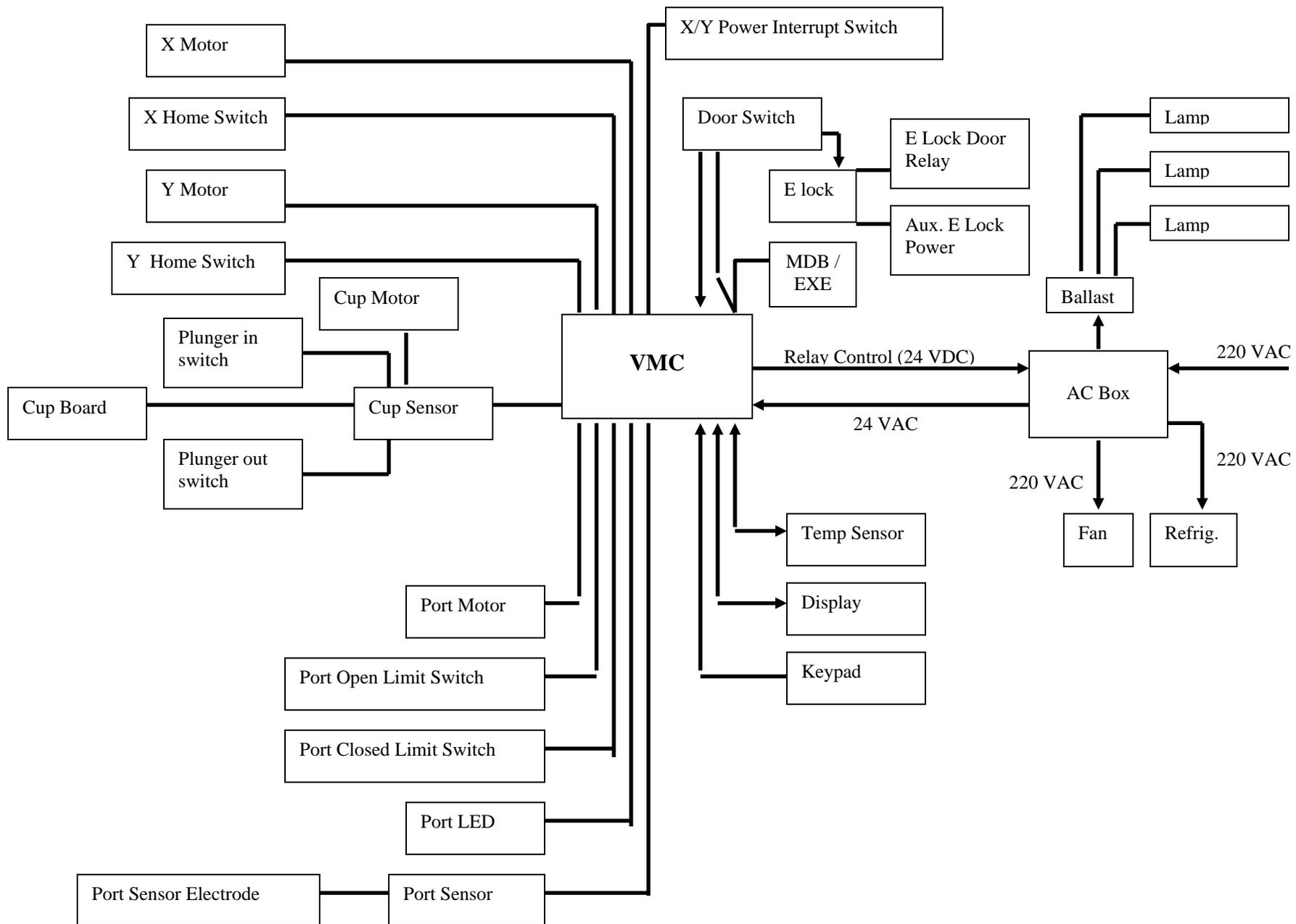
MACHINE NOT COOLING



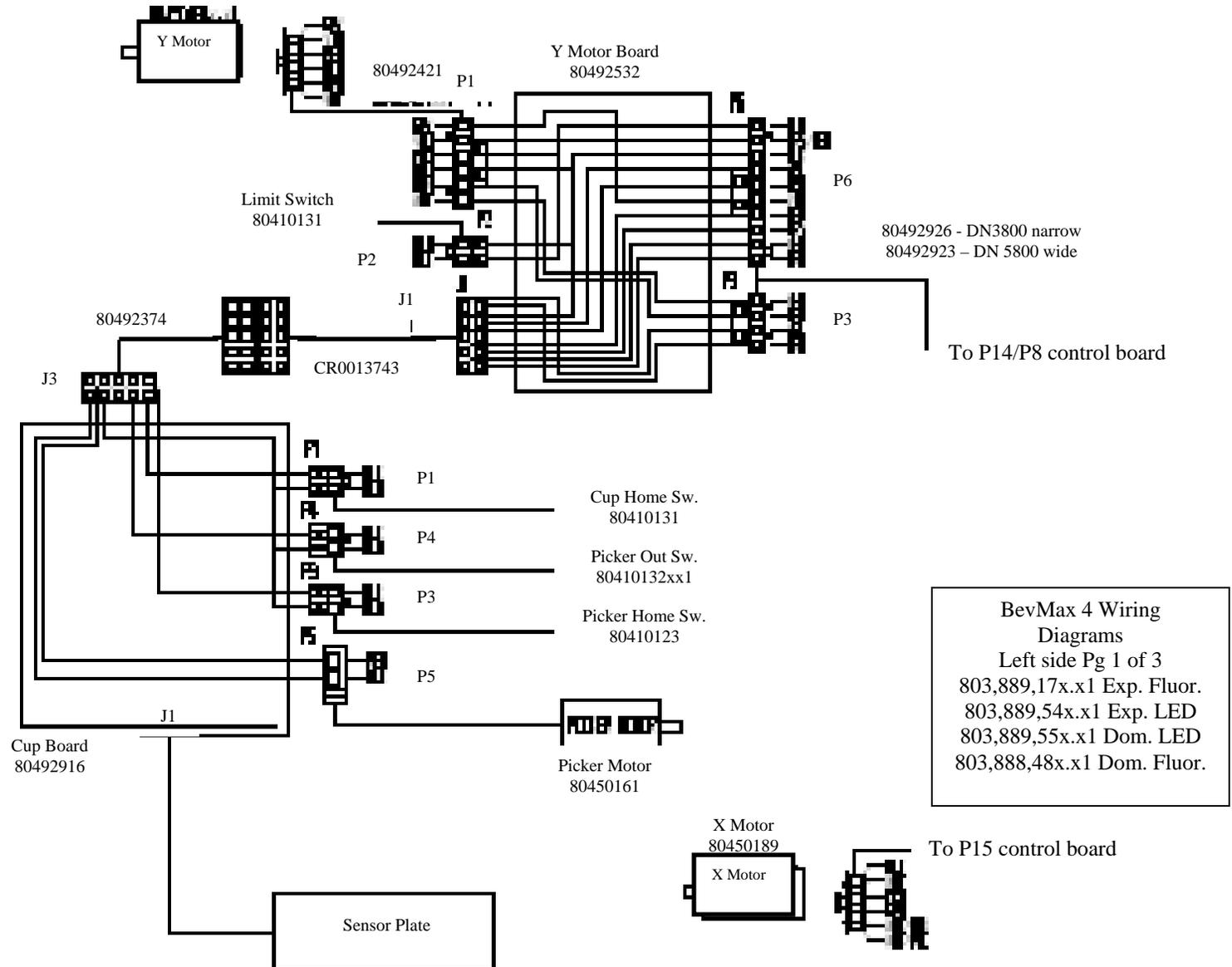
BevMax 4 5800-4/3800-4 Domestic Block Diagram



BevMax 4 5800-E4/3800-E4 Export Block Diagram

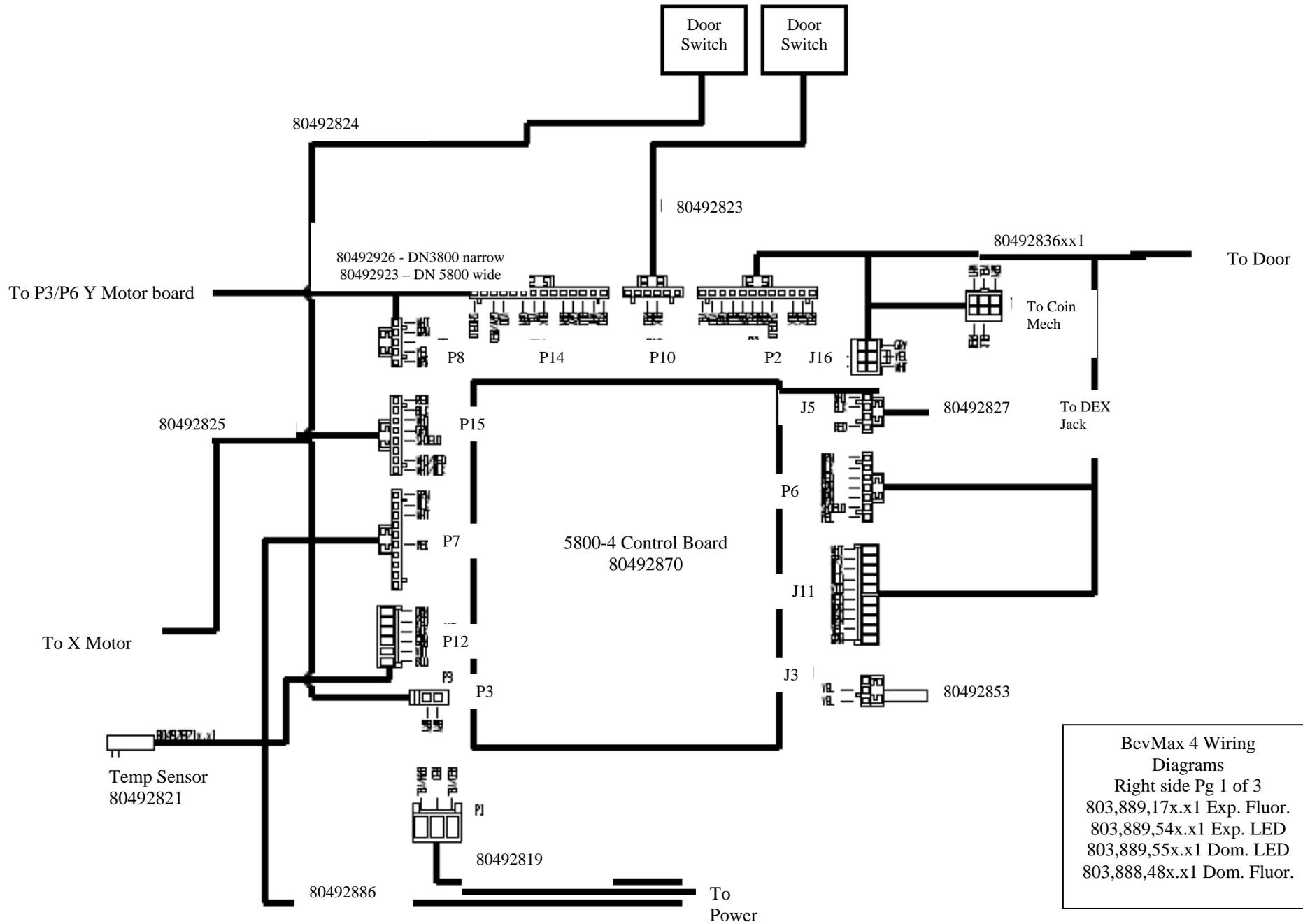


BevMax 4 5800-4/5800-E4 Cabinet Diagram (Domestic & Export)



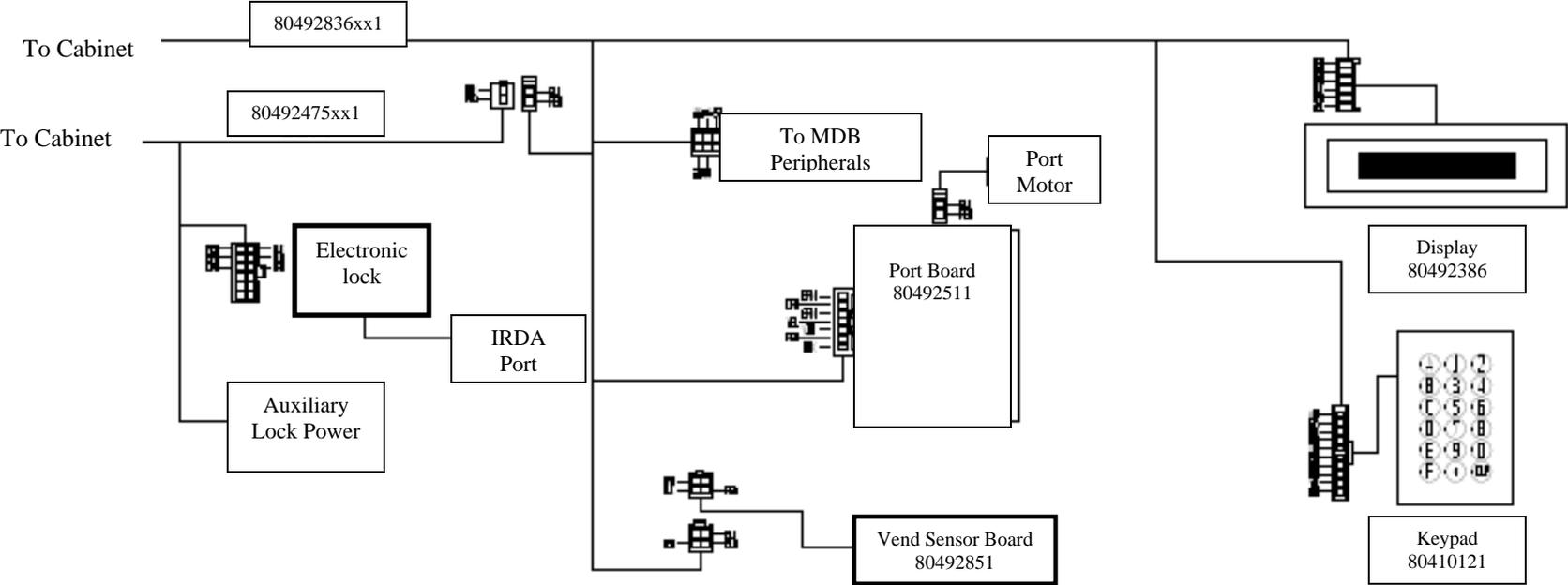
BevMax 4 Wiring Diagrams
 Left side Pg 1 of 3
 803,889,17x.x1 Exp. Fluor.
 803,889,54x.x1 Exp. LED
 803,889,55x.x1 Dom. LED
 803,888,48x.x1 Dom. Fluor.

BevMax 4 5800-4/3800-4/5800-E4/3800-E4 Cabinet Diagram (Domestic & Export)



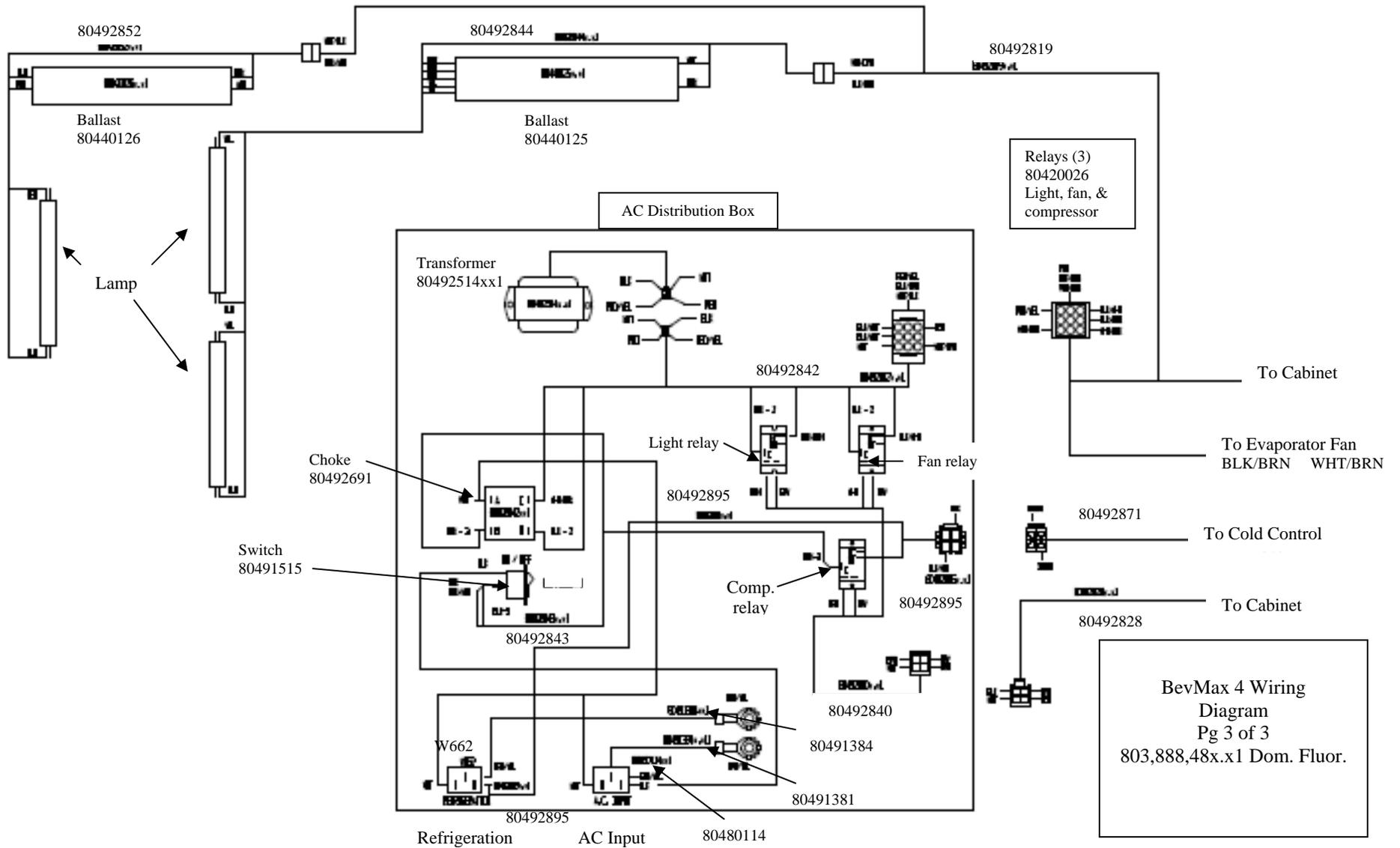
BevMax 4 Wiring Diagrams
 Right side Pg 1 of 3
 803,889,17x.x1 Exp. Fluor.
 803,889,54x.x1 Exp. LED
 803,889,55x.x1 Dom. LED
 803,888,48x.x1 Dom. Fluor.

BevMax 4 5800-4/3800-4/5800-E4/3800-E4 Door Diagram (Domestic & Export)

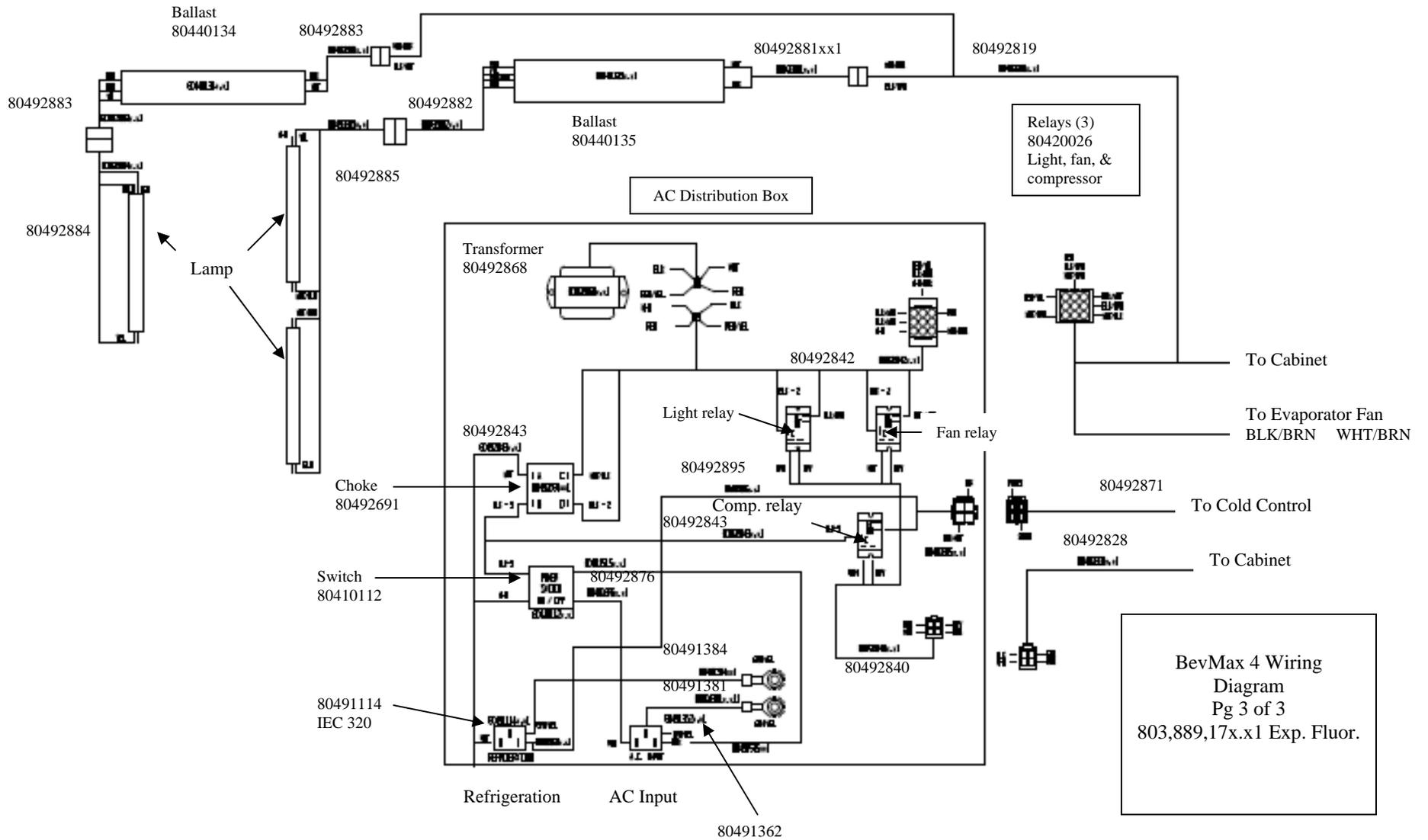


BevMax 4 Wiring
 Diagrams
 Pg 2 of 3
 803,889,17x.x1 Exp. Fluor.
 803,889,54x.x1 Exp. LED
 803,889,55x.x1 Dom. LED
 803,888,48x.x1 Dom. Fluor.

BevMax 4 5800-4/3800-4 Domestic Power & Fluorescent Lighting Diagram With JST Connectors

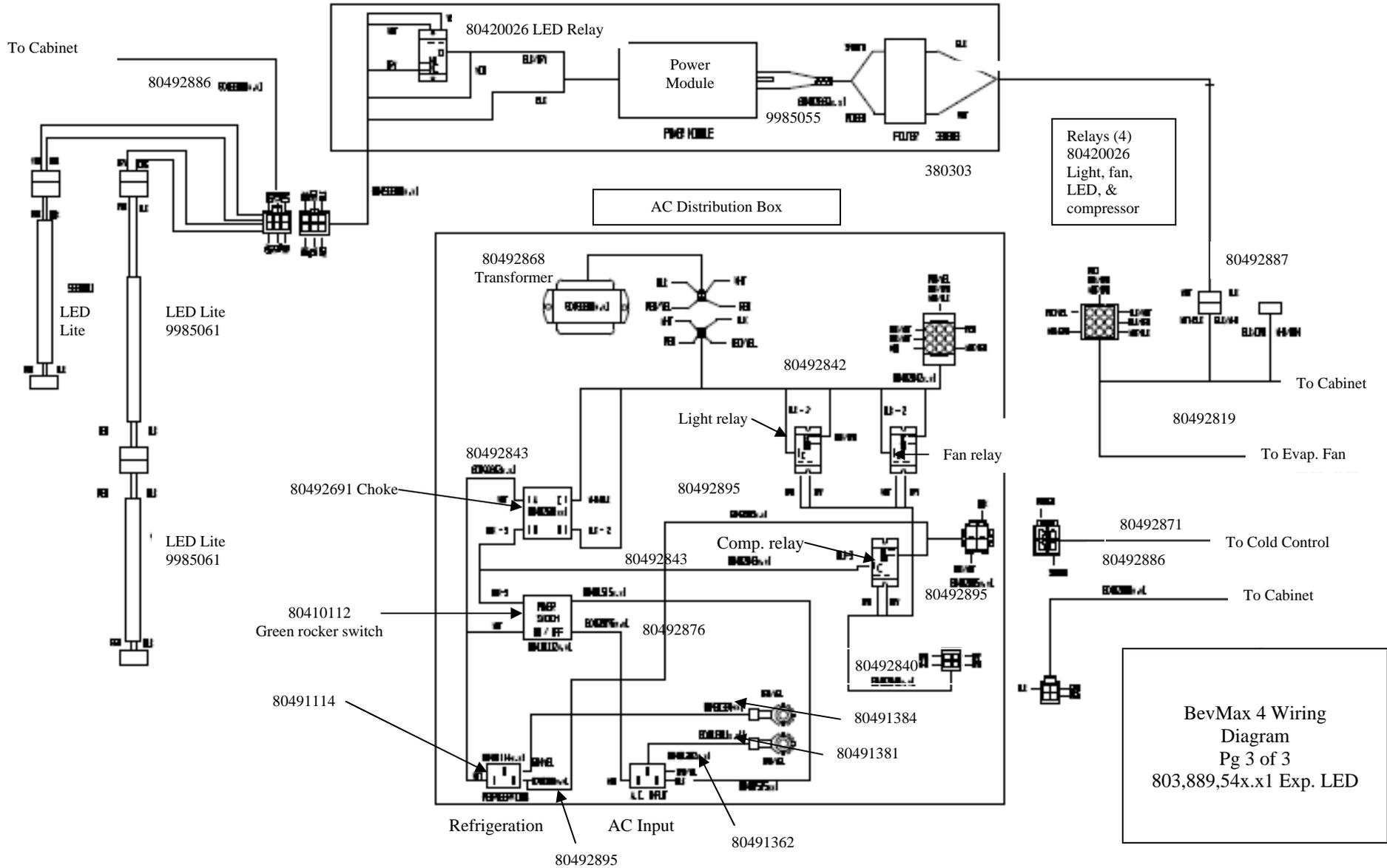


BevMax 4 5800-4/3800-4 Export Power & Fluorescent Lighting Diagram



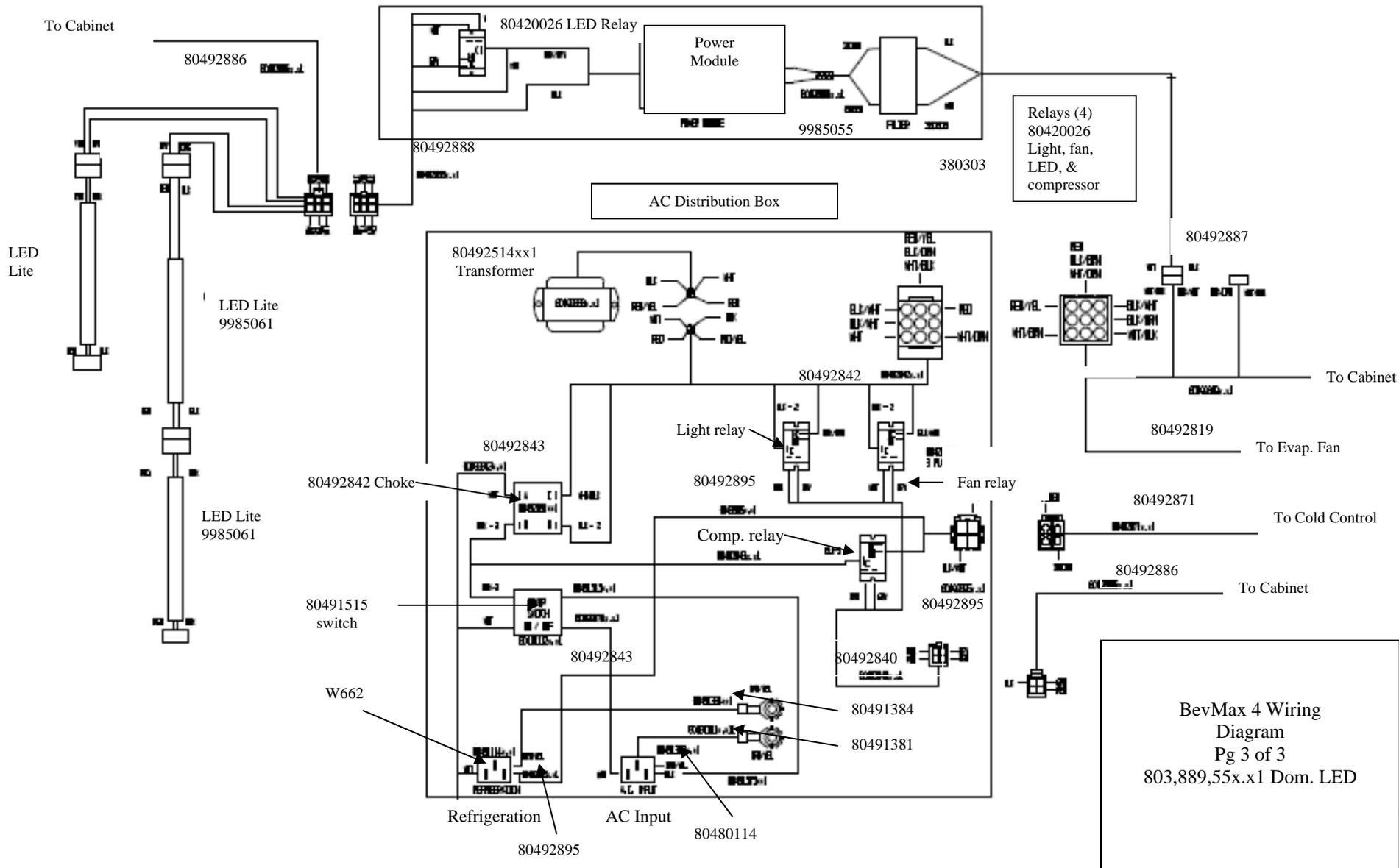
BevMax 4 Wiring
Diagram
Pg 3 of 3
803,889,17x.x1 Exp. Fluor.

BevMax 4 5800-E4/3800-E4 Export Power & LED Lighting Diagram

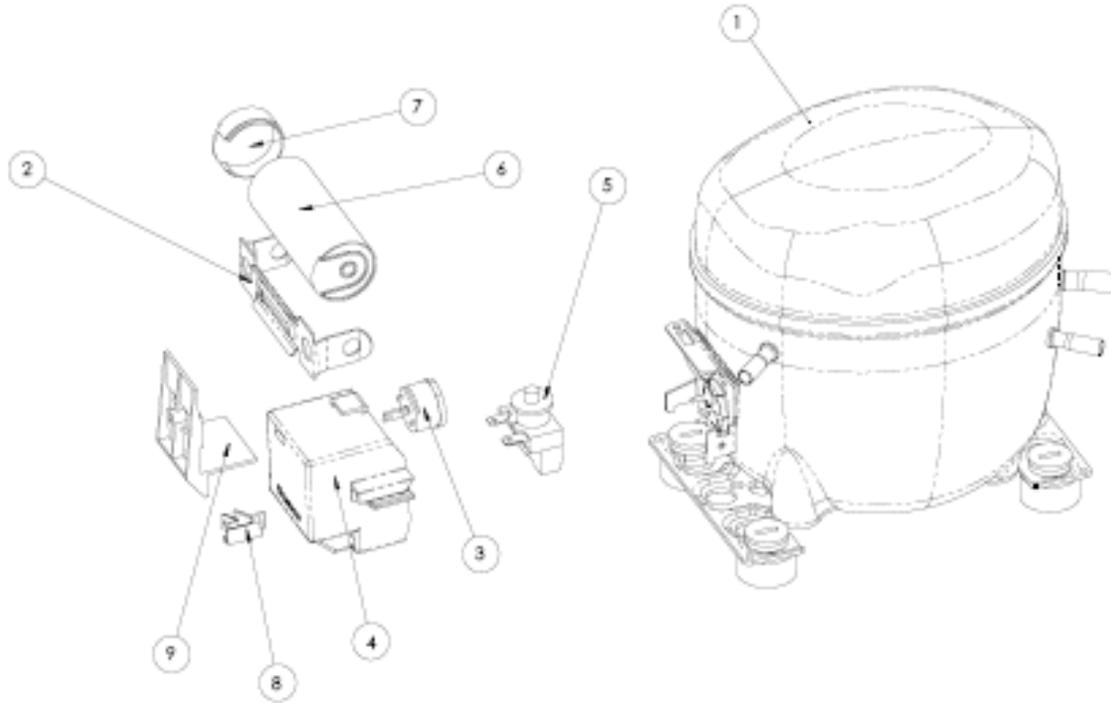


BevMax 4 Wiring
Diagram
Pg 3 of 3
803,889,54x.x1 Exp. LED

BevMax 4 5800-4/3800-4 Domestic Power & LED Lighting Diagram



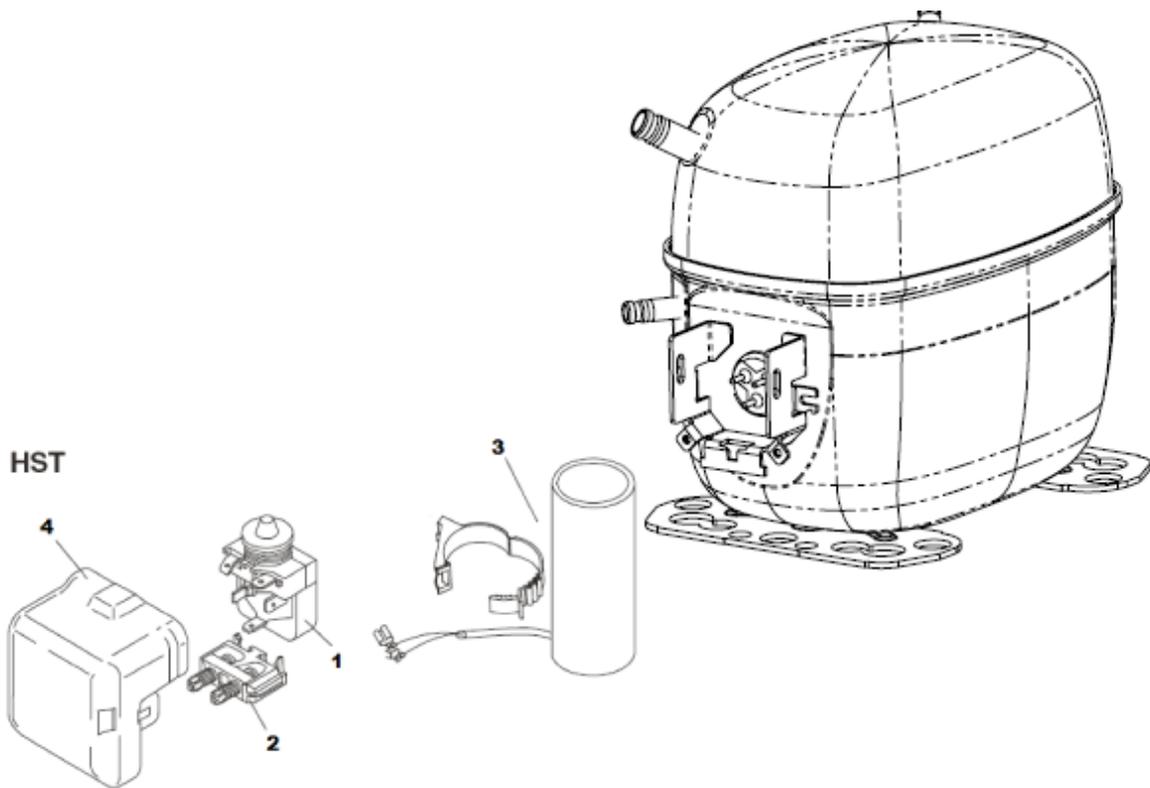
BevMax 4 5800-4/3800-4 Compressor Parts Diagram



Domestic Compressor Parts BevMax 4 5800-4/3800-4 65701270 Domestic Refrigeration Kit

Item #	Part #	Description
1	80250289	Compressor, Embraco FFU130HAX 115/60 (EM# 513200620)
2	80240217	Bracket, Capacitor FFU130HAX (EM#US-2255008)
3	80240213	Overload, Compressor FFU130HAX (EM#513554617)
4	80240214	Cover, Electrical Component FFU130HAX (EM#13555028)
5	80240216	Relay, Compressor Start FFU130HAX (EM#213516051)
6	80240218	Capacitor, Compressor Start FFU130HAX (EM#US-3252378)
7	80240220	Cap, Capacitor FFU130HAX (EM#2254002)
8	80240215	Cord, Relief FFU130HAX (EM#513545045)
9	802,402,21x.x1	Holder Capacitor FFH130HAX (EM#513555135)
10	R134A	Freon (9.5oz or .269kg)

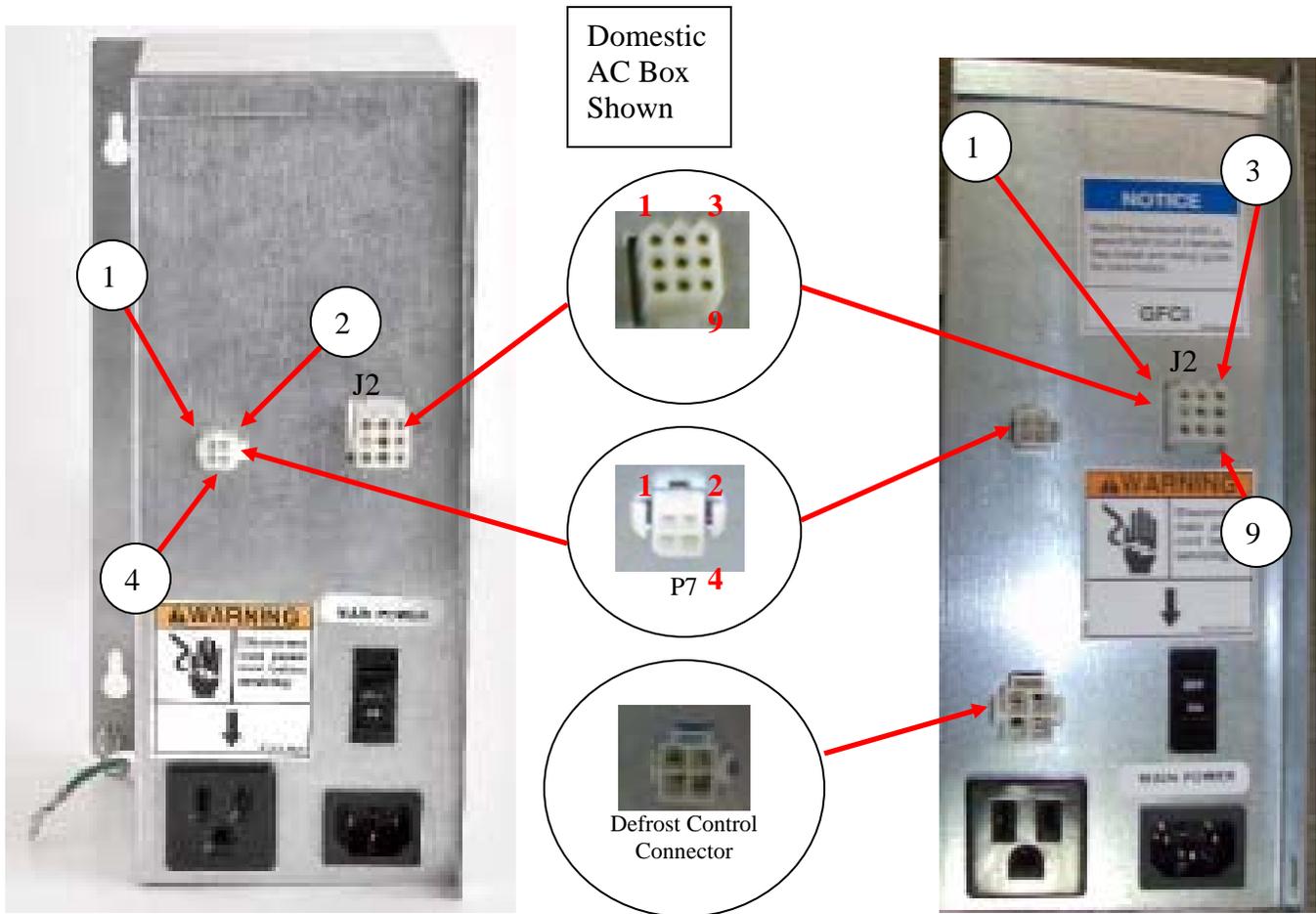
BevMax 4 5800-E4/3800-E4 Compressor Parts Diagram



Export Compressor Parts BevMax 4 5800-E4 65701290 Export Refrigeration Kit

Item #	Part #	Description
	CR0004162	Compressor, Export
1	CR0004863	Starting Relay, Danfoss
2	CR0004865	Cord, Relief Compressor Danfoss
3	CR0004174	Capacitor, Compressor Start 80 μ F, Danfoss
4	CR0004172	Cover, Electrical Component FFU130HAX (EM#13555028)
5	R134A	Freon (9.5oz or .269kg)

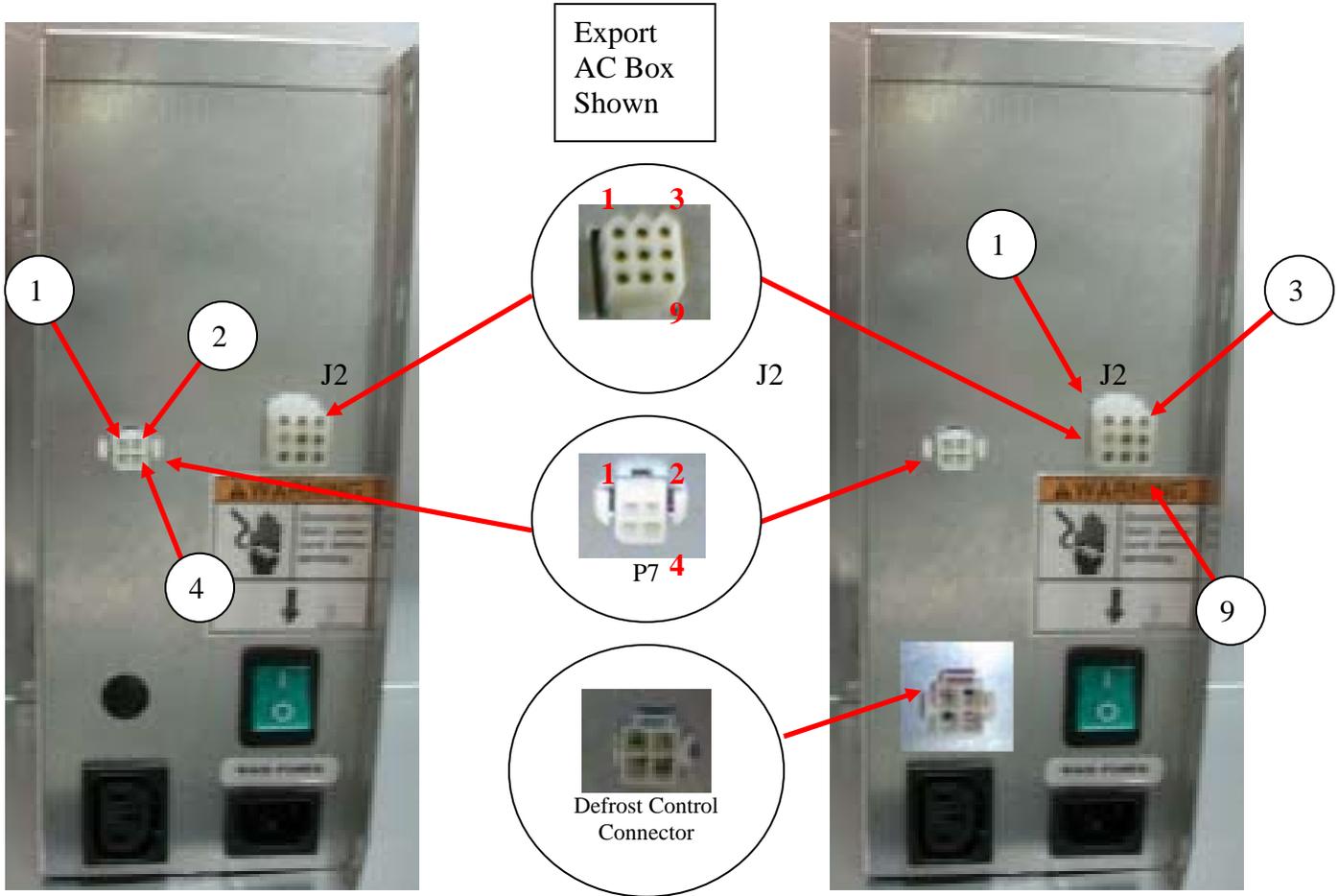
BevMax 4 5800-4/3800-4 AC Distribution Box



Domestic Test Voltages 9 Pin J2 Output Power Connector		
1 st lead to Pin	2 nd lead to	Domestic Reading
1	2	24 (26 to 30) VAC secondary of transformer
2	1	24 (26 to 30) VAC secondary of transformer
3	ground	110 VAC Hot not switched for 1 lamp assy.
4	NA	OPEN
5	ground	115 VAC Hot switched for fan motor
6	ground	115 VAC Hot switched for lights
7	ground	0 VAC Neutral
8	ground	0 VAC Neutral
9	ground	0 VAC Neutral

Domestic Test Measurements 4 Pin P7 AC Distribution Box			
1 st lead to Pin	2 nd lead to Pin	Domestic Reading	When 4 pin connector is unplugged – OHMS reading
1	3	Lights control relay coil	570 ohms
2	3	Fan control relay coil	570 ohms
4	3	Compressor relay coil	570 ohms
3	NA	Common	NA

Export BevMax 4 5800-E4/3800-E4 AC Distribution Box



Export Test Voltages 9 Pin J2 Output Power Connector		
1 st lead to Pin	2 nd lead to	Export Reading
1	2	24 (26 to 30) VAC secondary of transformer
2	1	24 (26 to 30) VAC secondary of transformer
3	ground	240 VAC Hot not switched for 1 lamp assy.
4	NA	OPEN
5	ground	240 VAC Hot switched for fan motor
6	ground	240 VAC Hot switched for lights
7	ground	0 VAC Neutral
8	ground	0 VAC Neutral
9	ground	0 VAC Neutral

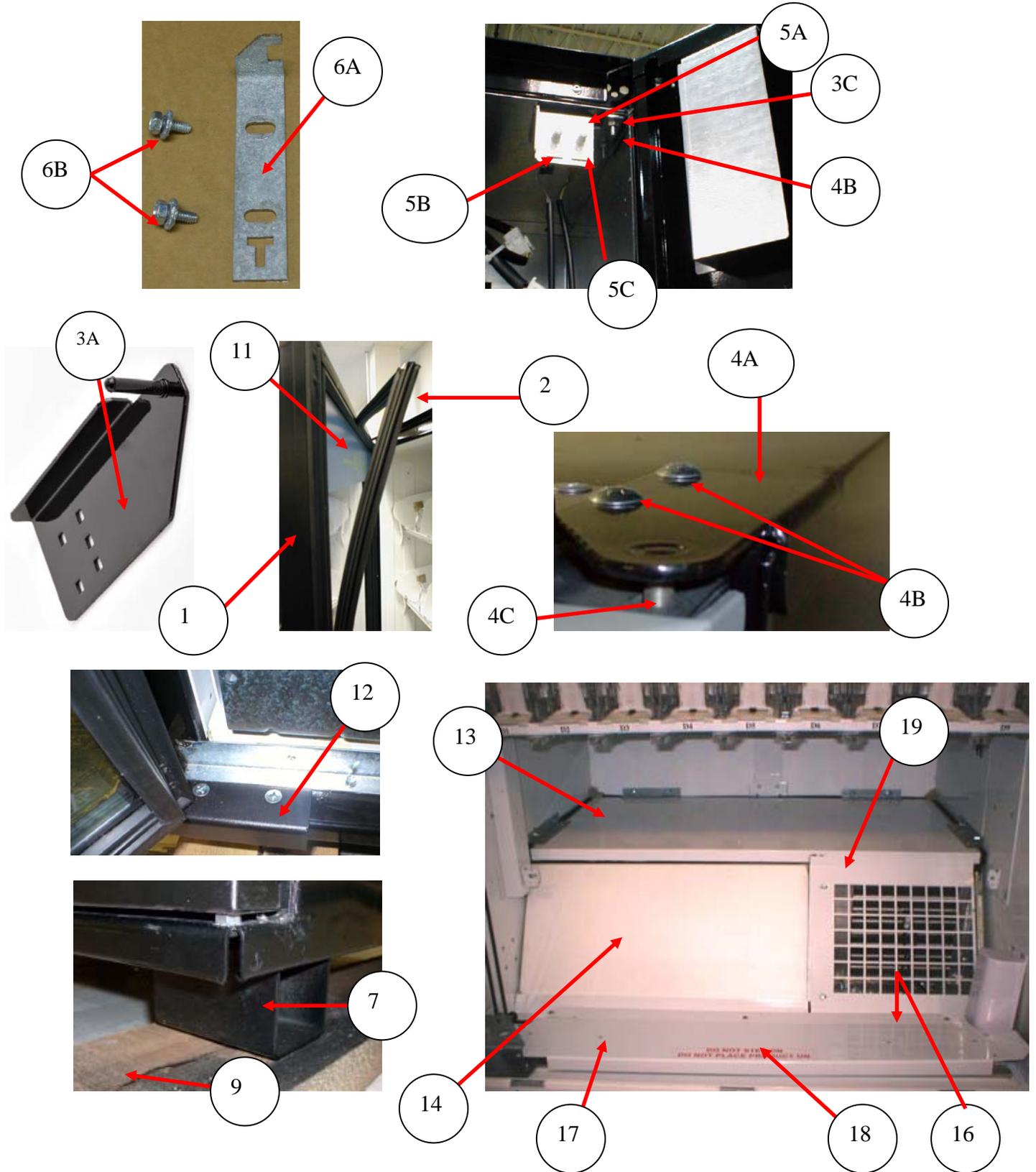
Export Test Measurements 4 Pin P7 AC Distribution Box			
1 st lead to Pin	2 nd lead to Pin	Export Reading	When 4 pin connector is unplugged – OHMS reading
1	3	Lights control relay coil	570 ohms
2	3	Fan control relay coil	570 ohms
4	3	Compressor relay coil	570 ohms
3	NA	Common	NA

PARTS LIST

PARTS LIST AND DIAGRAMS	69 – 104
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Special Note: Crane Merchandising Systems Dixie-Narco part numbering has changed. Many of the 11 digit numbers are now 8 digit numbers. The last 3 digits were dropped in the new numbering system. An example of this is 800,102,970.01 is now 80010297.

MACHINE FRONT VIEW

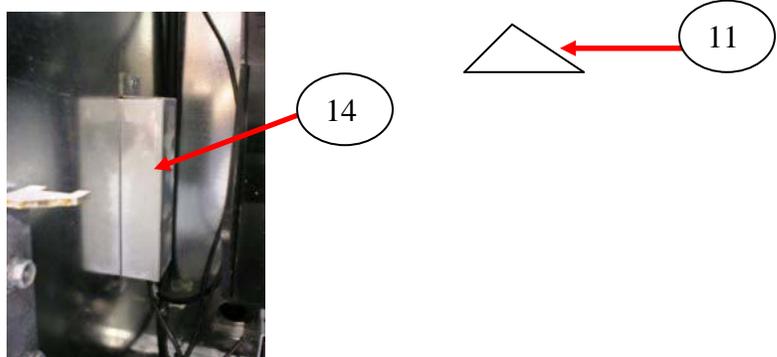
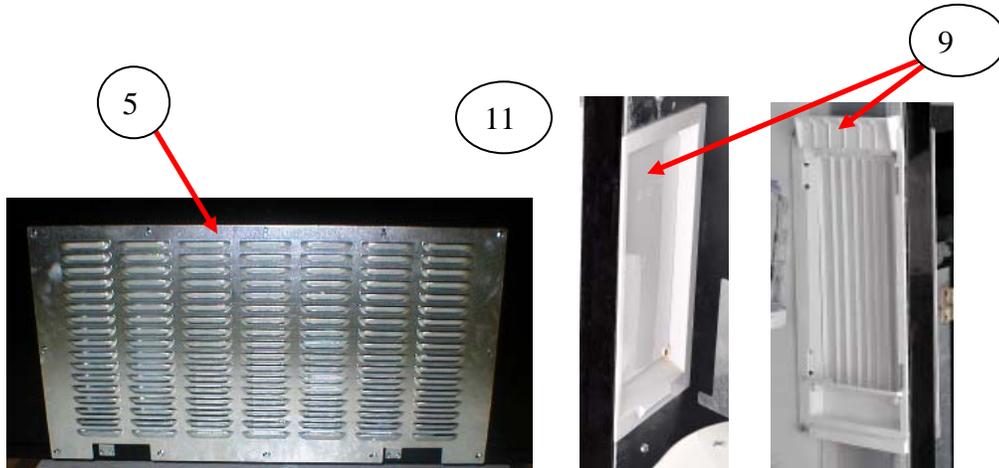
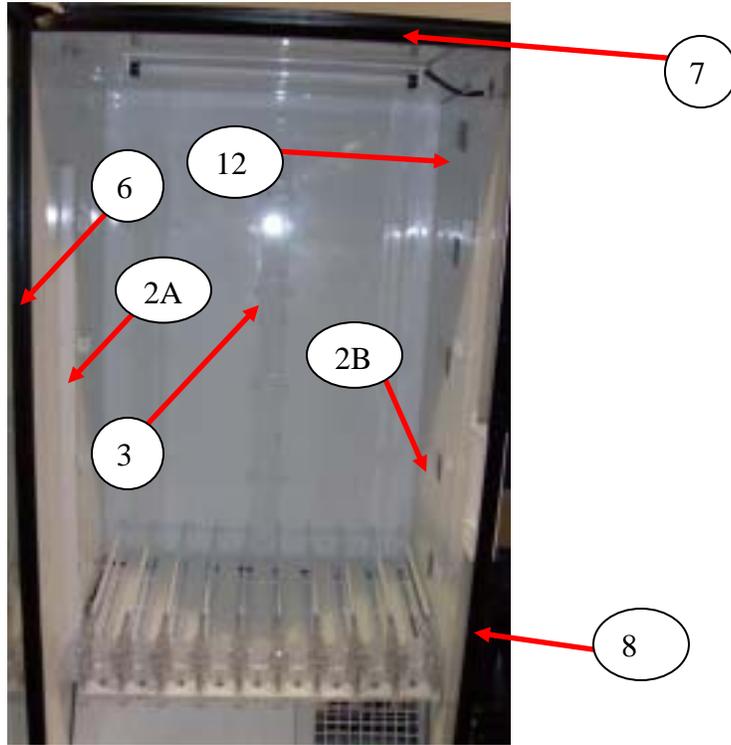


MACHINE FRONT VIEW

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Door Assembly, Glass (does not include decals)	80010595	80010596
2	Gasket, Glass Door	80010297	80010298
3A	Top Hinge Glass Door (was 65700190, 65700036)	CR0014018	Same
3B	Carriage Bolt – ¼ - 20 x 1 1/4	80020243	Same
3C	Hex Nut – ¼ - 20	80080157	Same
3D	Washer, Flat	80070144	Same
3E	Screw, Torx 8 X 5/8 (nib size TRX27)	48909108	Same
	Screw, Fl. Torx Tap ¼-20 X ½	AP13100035	Same
	Screw, Hex 8 X 5/8	80030468	Same
4A	Top Hinge Service Door	CR0002256	Same
4B	Carriage Bolt, 1/4 –20 X 2.5”	80020249	Same
4C	Top Hinge Pin, Service Door	CR0002219	Same
4D	Lock Nut, Service Door Hinge Pin Bolt ¼ - 20	80030478	Same
4E	Washer, Service Door Hinge Pin	900,701,19x.x1	Same
5A	Door Switch Bracket – Double Switch	64700104	Same
5A	Door Switch Bracket – Single Switch	64700105	Same
5B	Power Interrupt Switch	80410059	Same
5C	Door Switch	804,101,19x.x1	Same
6A	Door Latch High Security, 2 Point Lock	CR0010839	Same
6B	Screw, Hex ¼ - 20 x 5/8	80030436	Same
7	Leg Assembly, welded in place	65700060	Same
8	Leg Leveler, 5/8 – 11 x 2 1/16	80050379	Same
9	Shipping Boards, Domestic	CR0000969	Same
	Shipping Boards, Export	CR0004959	Same
10	Thermometer	80140155	Same
11	Wear Strip Door Decal	80387837	Same
12	Glass Door Bottom Hinge	65700035	Same
13	Bottom Panel Assembly	CR0004713	CR0004585
14	Assembly Panel Slanted, with plastic evap box Refrig unit	CR0007060	CR0007064
	Assembly Panel Slanted, with metal evap box Refrig unit	CR0004787	CR0004853
15	Door Stop	64700045	Same
16	Wire Chase Assembly	CR0004882	CR0004884
17	Ramp	CR0002585	65707007
18	Warning Label, Ramp	80388543	Same
19	Evaporator Inlet Grill	CR0002388	Same
20	Bolt, Bottom Hinge Service Door	CR0002219	Same
21	Lock Nut, Bottom Service Door Hinge Pin Bolt ¼ - 20	80030478	Same

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

CABINET DETAIL PRODUCT AREA

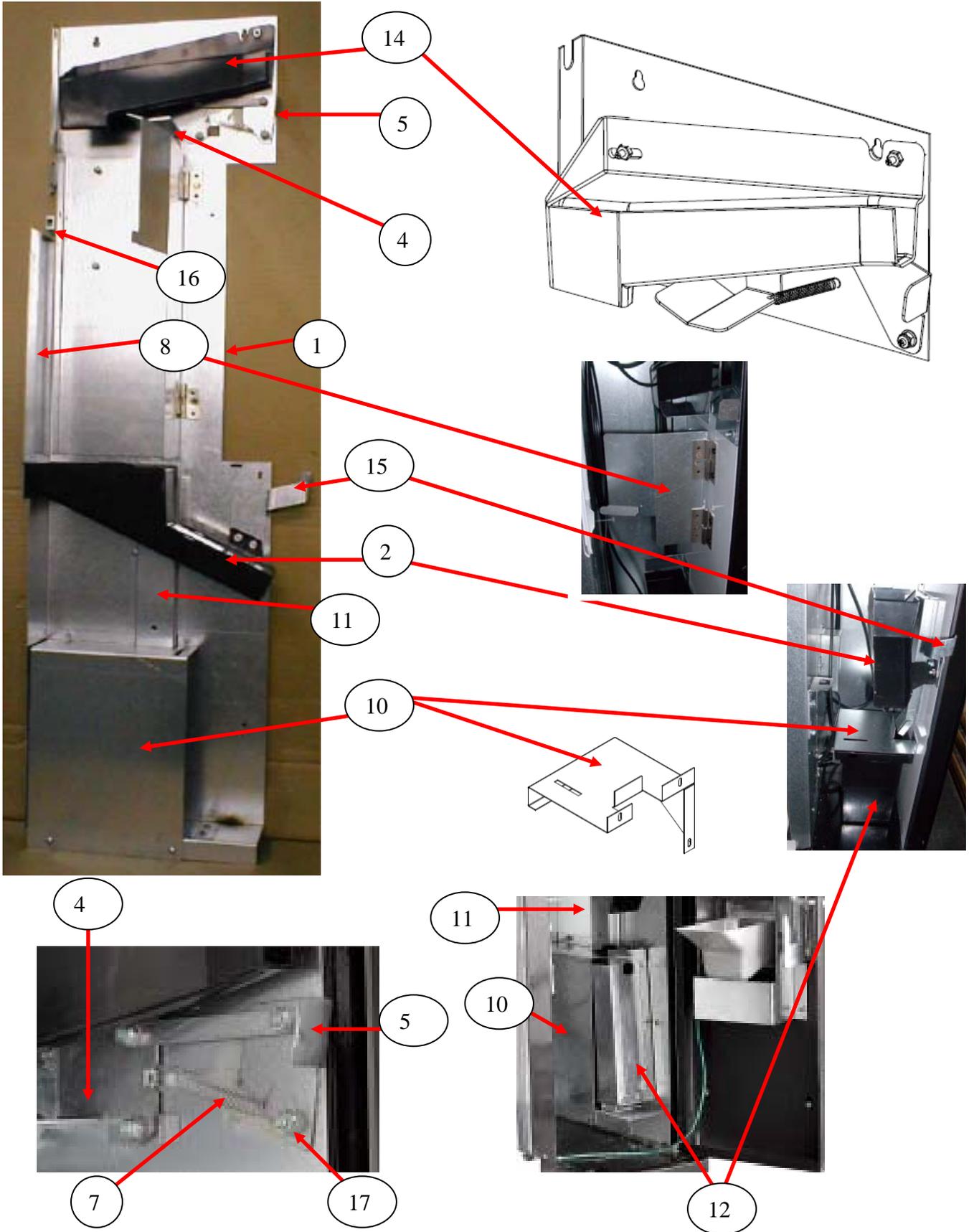


CABINET DETAIL PRODUCT AREA

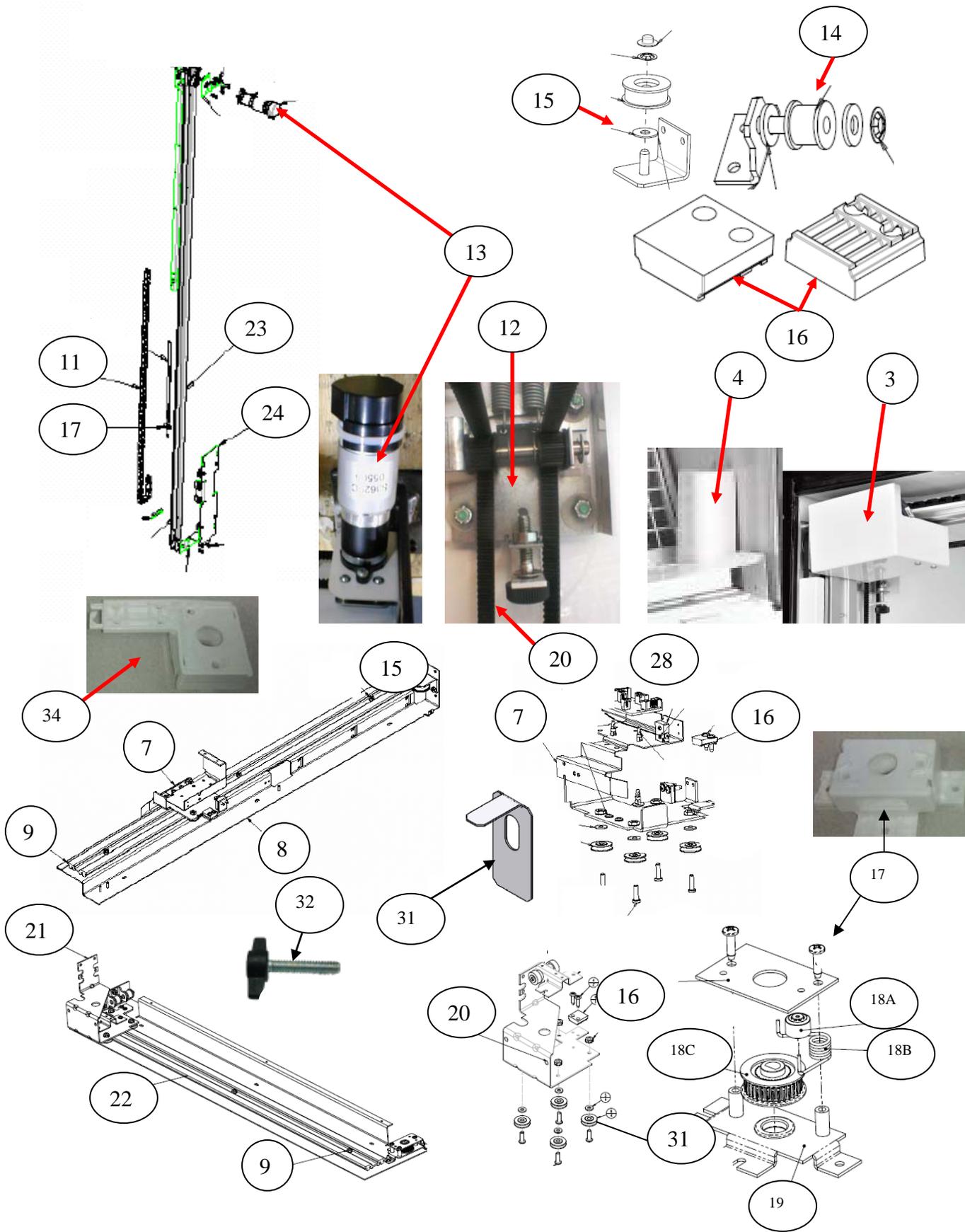
ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Cabinet Assembly, Generic	65706020	CR0002684
2A	Left Tray Mount Bracket, 2 piece prior to 9133DH (All)	64707005	Same
	Left Tray Rail, 2 piece (5 shelf) prior to 9133DH (E4)	657,070,03x.x3	Same
	Left Tray Rail, 2 piece (5 shelf) prior to 9133DH (Export)	CR0004428	Same
	Left Tray Rail, 2 piece (5 shelf) prior to 9133DH – E6	CR0008227	Same
	Left Tray Support, 1 piece (5 shelf) 9133DH & higher - E3	CR0006968	Same
	Left Tray Support, 1 piece (5 shelf) 9133DH & higher - E4	CR0006970	Same
	Left Tray Support, 1 piece (5 shelf) 9133DH & higher - E5	CR0007230	Same
	Left Tray Support, 1 piece (5 shelf) 9133DH & higher – E6	CR0008225	Same
	Left Tray Support, 1 piece (5 shelf) 9133DH & higher - D2	CR0005592	Same
2B	Right Tray Mount Bracket, 2 piece prior to 9133DH (All)	64707004	Same
	Right Tray Rail, 2 piece (5 shelf) – E4	65707001	Same
	Right Tray Rail, 2 piece (5 shelf) prior to 9133DH (Export)	CR0004449	Same
	Right Tray Rail, 2 piece (5 shelf) prior to 9133DH – E6	CR0008228	Same
	Right Tray Support, 1 piece (5 shelf) 9133DH & higher - E3	CR0006967	Same
	Right Tray Support, 1 piece (5 shelf) 9133DH & higher - E4	CR0006971	Same
	Right Tray Support, 1 piece (5 shelf) 9133DH & higher - E5	CR0007231	Same
	Right Tray Support, 1 piece (5 shelf) 9133DH & higher – E6	CR0008224	Same
	Right Tray Support, 1 piece (5 shelf) 9133DH & higher - D2	CR0005593	Same
3	Rear Tray Mount Bracket, 2 piece prior to 9133DH (All)	64707003	Same
	Rear Tray Rail, 2 piece (5 shelf) – E4	65707002	Same
	Rear Tray Rail, 2 piece (5 shelf) prior to 9133DH (Export)	CR0004447	Same
	Rear Tray Support, 1 piece (5 shelf) 9133DH & higher - E3	CR0006969	Same
	Rear Tray Support, 1 piece (5 shelf) 9133DH & higher - E4	CR0006972	Same
	Rear Tray Support, 1 piece (5 shelf) 9133DH & higher - E5	CR0007232	Same
	Rear Tray Support, 1 piece (5 shelf) 9133DH & higher – E6	CR0008226	Same
	Rear Tray Support, 1 piece (5 shelf) 9133DH & higher - D2	CR0005594	Same
4a	Tray Support Screw #8-18x1/2 Phil Pan (Self drilling, 9 per rail)	80030418	Same
4b	Hex Washer Screw (2 per shelf)	80030468	Same
5	Ingress Guard (was CR0001245)	CR0007657	Same
	Ingress Guard with Screen Export	CR0005110	Same
	Modified Rodent Guard Assy (use with CR0005110)	CR0005102	Same
6a	Security Angle, Left was 64706007	CR0000953	Same
6b	Security Angle, Right	CR0000954	
7	Security Angle, Top	65700026	CR0002770
8	Door Seal Strip	65706031	Same
9	Assembly Discharge Frame	80181994	Same
10	Discharge Door Magnet	80410105	Same
11	Discharge Port Diverter	CR0007420	Same
12	Louver Panel Assembly	CR0004574	Same
13	Defrost Control Mounting Bracket	64704003	Same
14	Defrost Control Cover	CR0004136	Same
15	Defrost Control Vinyl Tube	80190275	Same
16	Mesh Inlet Screen Assembly (near unit handle) - Export	CR0005112	Same

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CABINET DETAIL SERVICE DOOR AREA



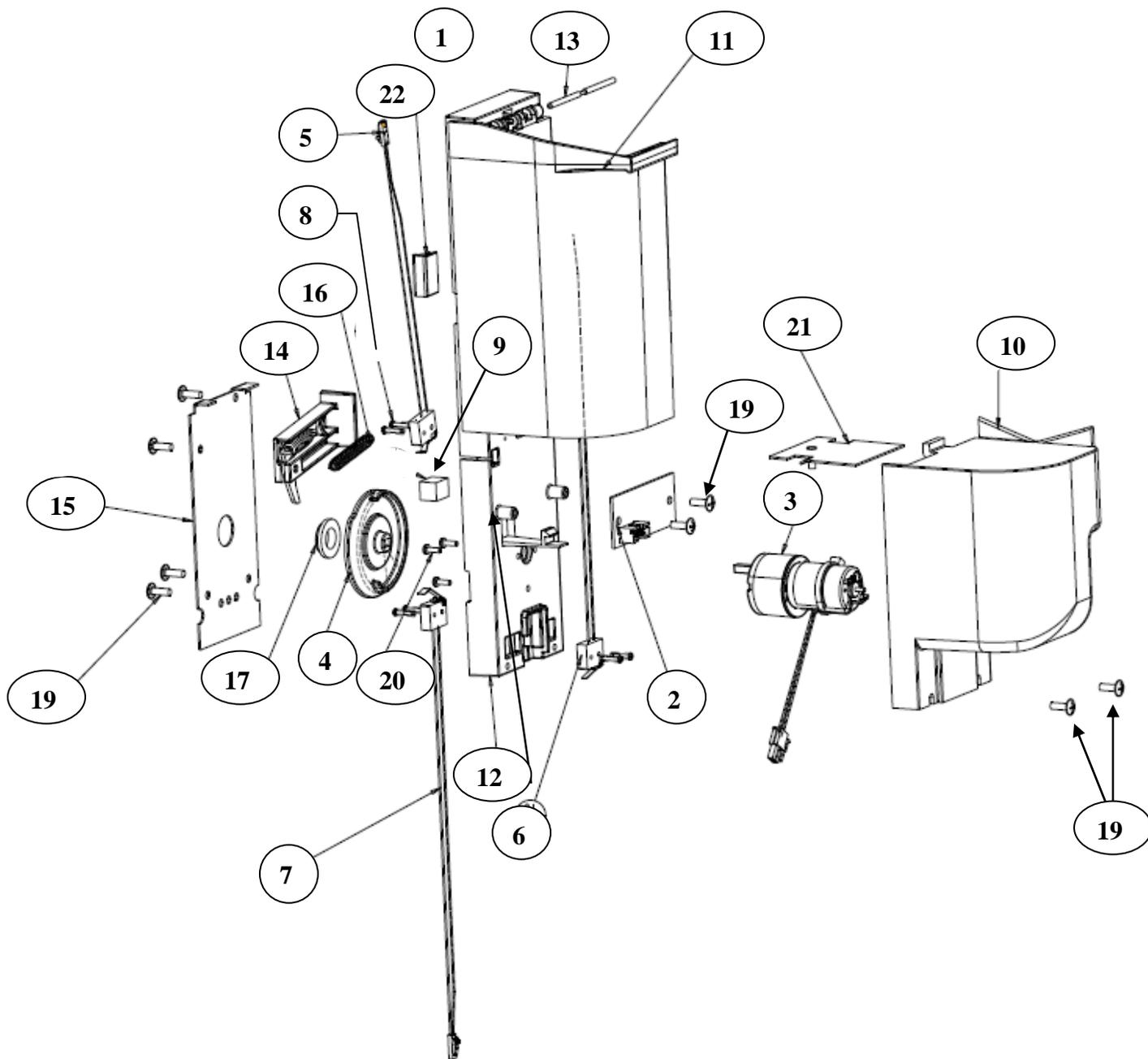
XY MOTOR PICKER UNIT



XY MOTOR PICKER UNIT

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	XY Delivery System	CR0002183	CR00027472
2	Assembly Cover Y Belt	CR0001797	Same
3	Y Motor Cover Top	80182329	Same
4	X Motor Cover Bottom	80182328	Same
5	X Bottom Belt Cover (Ramp)	CR0002585	65707007
6	Harness, X Motor – bottom, not shown	80492825	Same
7	X Top Carriage Assembly (top of XY)	CR0002121	Same
8	X Axis Mounting Assembly Top	CR0002133	CR0002736
9	XY Extrusion (X track)	80120188	80120208
10	Harness, XY E Chain (Top horizontal) – not shown	80492826	80492894
11	Harness, Y E Chain (vertical) was 80492479	CR0013743	Same
12	XY Belt Idler Tensioning Assembly (top left)	64707970	Same
13	Motor XY System (Large D shaft) was 80450184	80450189	Same
14	Idler Pulley and Bracket Assembly	64708160	Same
15	X Top Idler Pulley Assembly	64708110	Same
16	Belt Clamp	80510003	Same
17	X Pulley Drive Assembly was 647,084,70x.x3	CR0006104	Same
18A	Oilite Bushing no longer available	NA	NA
18B	Tension Spring used in 647,084,70x.x3 only	801,701,71x.x1	Same
18C	Pulley, 32 tooth “D” Drive	80530066	Same
19	X Motor Bracket Assembly was 647,084,60x.x3	CR0006104	Same
	X Motor Bracket Cover was 64707148	NA	Same
20	X Axis Belt (22’) was 64707530	80510008	Same
21	X Bottom Carriage Assembly (bottom of XY)	64708240	Same
22	Assembly X Axis Drive, Bottom	64707930	CR0002741
23	Assembly Y Axis	CR0002127	Same
24	Y Carriage Assembly	64708220	Same
25	Y Axis Belt (11.25’)	65700200	Same
26	Screw Hex ¼ - 28 x .5	80020284	Same
	Spacer, .257”	80530071	Same
	Hex Nut, ¼ - 28	CR0004998	Same
27	Micro Switch with Straight Arm (X Home)	80410131	Same
28	Y Board	80492532	Same
29	Y Extrusion	80120207	Same
30	Pulley Roller	80530054	Same
31	XY Shipping Bracket	64707109	Same
32	Screw, Wing ¼ - 20 x 1 ¼ molded nylon (for shipping bracket)	80030529	Same
33	Belt Tensioner Spring (Y Belt only)	80140197	Same
34	Y Pulley Drive Assy.	CR0005937	Same
Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

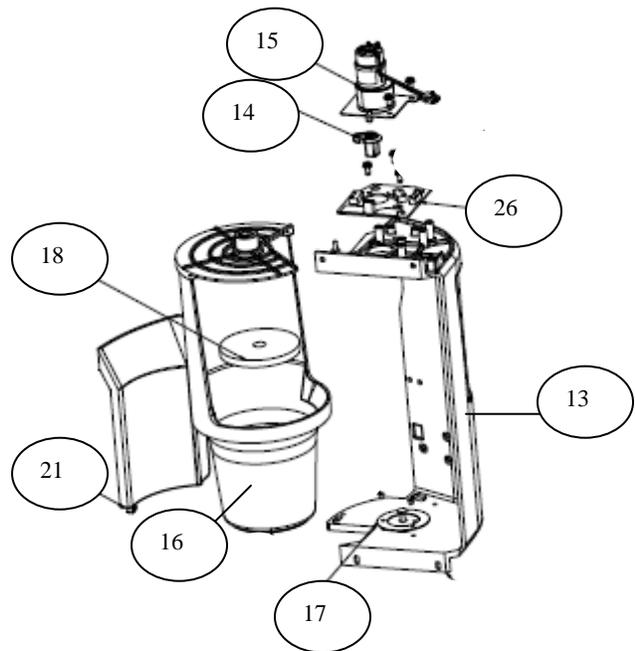
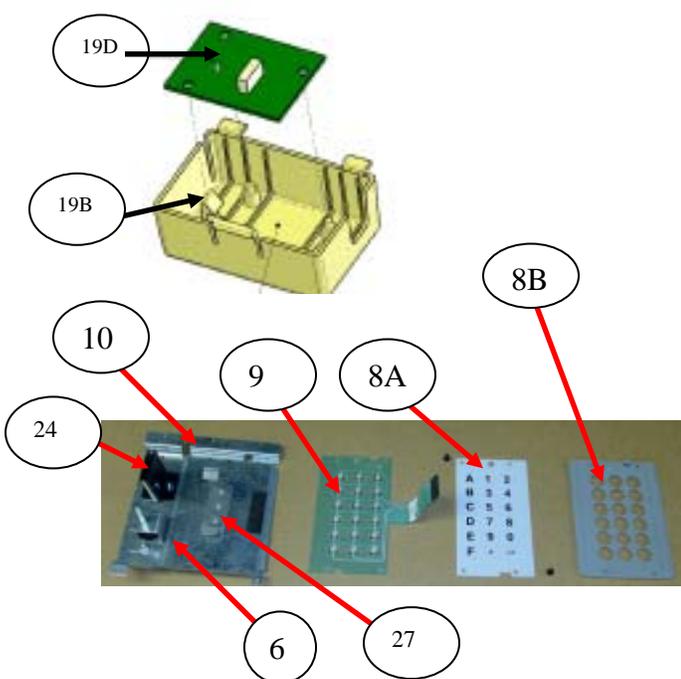
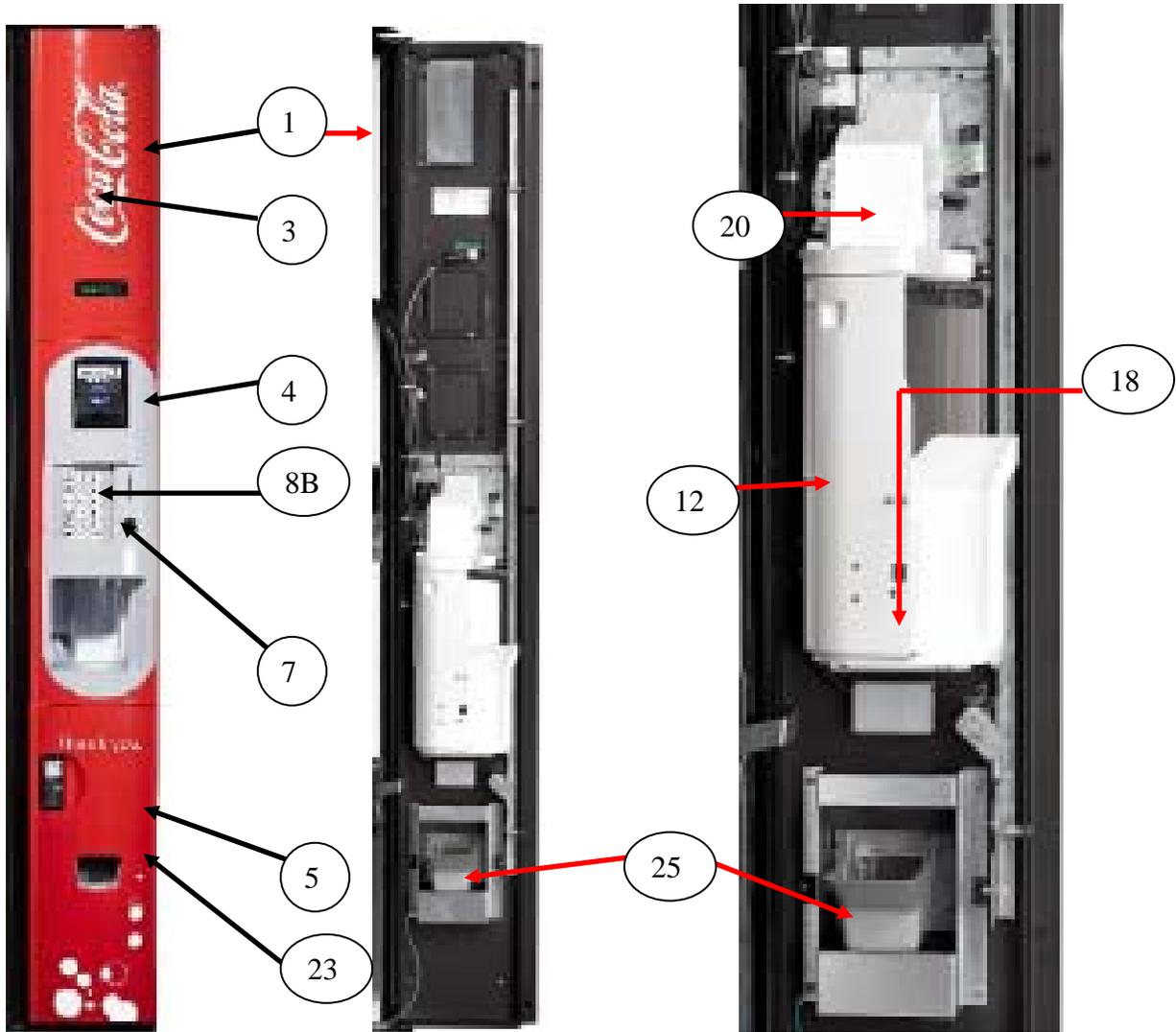
DELIVERY (PICKER) CUP ASSEMBLY



DELIVERY (PICKER) CUP ASSEMBLY

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Assembly Delivery (Picker) Cup Assembly w/ Sensor was 64708270, 80182497	CR0016348	Same
2	Cup Base Board (Picker Cup Board with sensor) 3/26/08 & after was 80492765, 80492916	80492959	Same
3	Cup/Port Motor Assembly	80450161	Same
4	Cup Motor Cam	80120202	Same
5	Micro Switch with Bent Arm (Picker Home Switch)	80410137	Same
6	Micro Switch with Straight Arm (Cup Home Switch – Y)	80410135	Same
7	Micro Switch with Bent Arm (Picker Out Switch)	80410136	Same
8	Screw, Phil Pan 2 – 32 X 1/2	80030501	Same
9	Plunger Cup Bumper	80360123	Same
10	Base Cup Cover	80182289	Same
11	Delivery Cup Sleeve	80182258	Same
12	Delivery Cup Body	80182288	Same
13	Pin Cup Hinge	80120187	Same
14	Assembly Plunger	80520275	Same
15	Motor Cam Cover	64707035	Same
16	Return Spring, Plunger (Picker Cup)	80170167	Same
17	Cam Bearing	80530051	Same
18	Harness, Cup to E Chain	80492374	Same
19	Screw, 8 – 18 x ½ Pan Head, Machine	80030431	Same
20	Screw, #4 – 40 x 3/8 Machine w/ lock washer	80030503	Same
21	Cup Sensor Plate (3/26/08 & after)	64708090	Same
22	Flat Wire Clip	80181929	Same
23			
24			
Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

SERVICE DOOR (OUTSIDE)

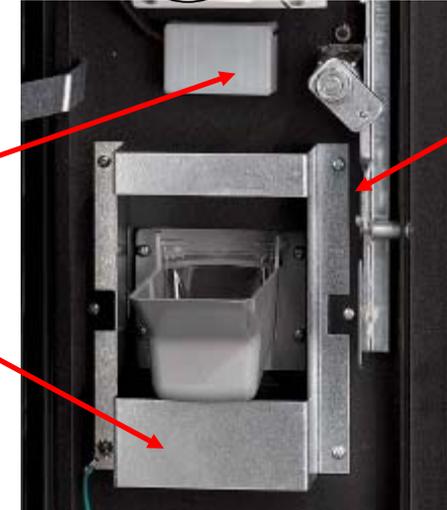
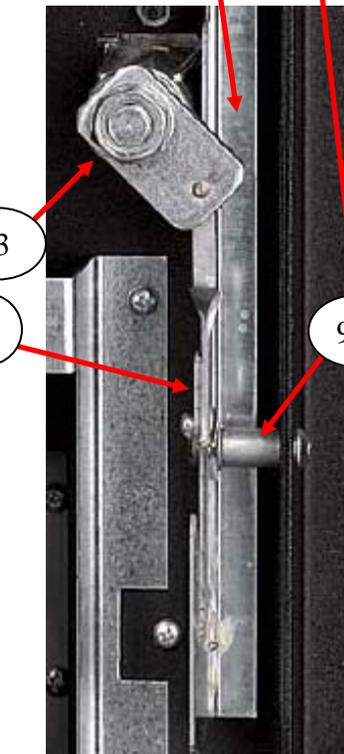
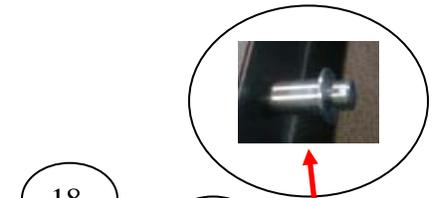
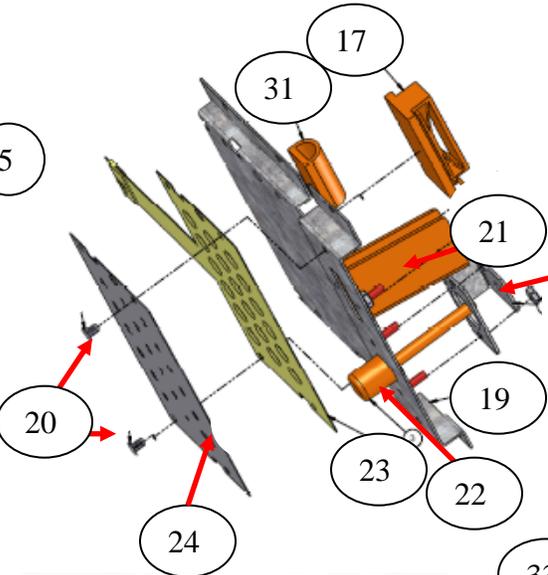
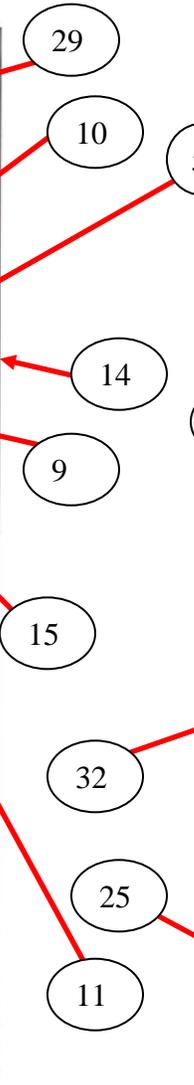
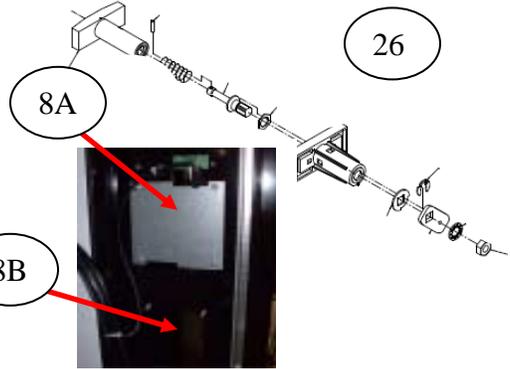
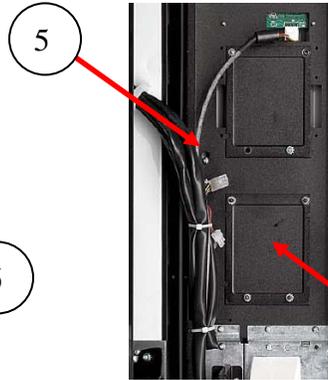
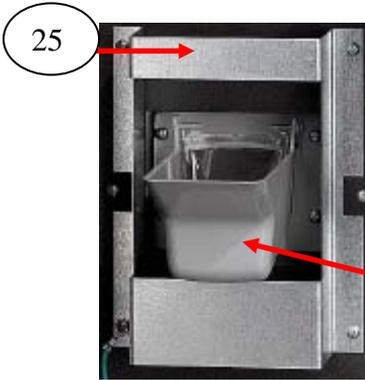
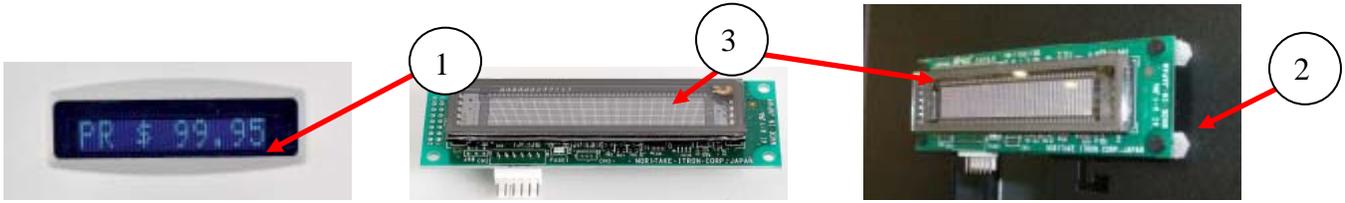


SERVICE DOOR (OUTSIDE)

ITEM	PART DESCRIPTION	No Knock Out	Knock Out	Milled Knockout
1	Service Door Assembly, Gray (need to order item 23 separately)	NA	Same	Same
	Service Door Assembly, Black (need to order item 23 separately)	NA	Same	Same
2	Weld Assembly Service Door	CR0001802	Same	Same
3	Assembly Bezel Top, Red	CR0004977	80182487	CR0005574
	Assembly Bezel Top, Black	CR0004976	80182415	CR0005575
4	Bezel Center, Red	NA	80182201	64700570
	Bezel Center, Black	NA	80182211	64700560
5	Bezel Bottom T Handle, Red (included in item 23)	80182489	NA	NA
	Bezel Bottom T Handle, Black (included in item 23)	80182202	NA	NA
6	Coin Return Button Bracket was CR0002303	CR0005650	NA	NA
7	Coin Return Button was 801,823,14x.x1	CR0007492	NA	NA
8A	Overlay, Keypad – Gray was 80388894	NA	NA	NA
8B	Keypad Cover, Gray	80182462	NA	NA
	Keypad Cover, Black	80182461	NA	NA
9	Keypad & Overlay, Membrane Switch Assembly with metal dome	80410142	NA	NA
10	Coin & Keypad Bracket Assembly	CR0001800	NA	NA
11	Keypad security Bracket	64705037	NA	NA
12	Assembly Port (with out LED's) was 64705560	80182496	NA	NA
13	Port Enclosure	80182400	NA	NA
14	Port Cam	80182409	NA	NA
15	Bracket and Motor Assembly (with notch)	64705400	NA	NA
16	Assembly Inner Cup Port	80182097	NA	NA
17	Vend Sensor Plate	64705360	NA	NA
18	Port Discharge Pad	80360122	NA	NA
19A	Vend Sensor Board Assembly, Port was CR0002851	CR0003022	NA	NA
19B	Port Sensor Cover/Housing	CR0002214	NA	NA
19C	Port Sensor Harness	80492750	NA	NA
19D	Vend Sensor with Harness	80492749	NA	NA
20	Motor Port Cover	80182068	NA	NA
21	Port Handoff Slide	80182103	NA	NA
22	Screw, Phil Pan 8 – 18 x5/8 (secures bezels to panel) was 80030431	80030502	NA	NA
23	Assembly T Handle, Red	CR0005003	NA	NA
	Assembly T Handle, Black	CR0005004	NA	NA
24	Coin Insert Chute	80182355	NA	NA
25	Extended Coin Return Cup Assembly (also see Service Door Inside)	80182429	NA	NA
26	Port Circuit Board (top of port assy)	80492511	NA	NA
27	Keypad Cable Clamp with adhesive was 80480112	CR0005752	NA	NA

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

SERVICE DOOR (INSIDE)



SERVICE DOOR (INSIDE)

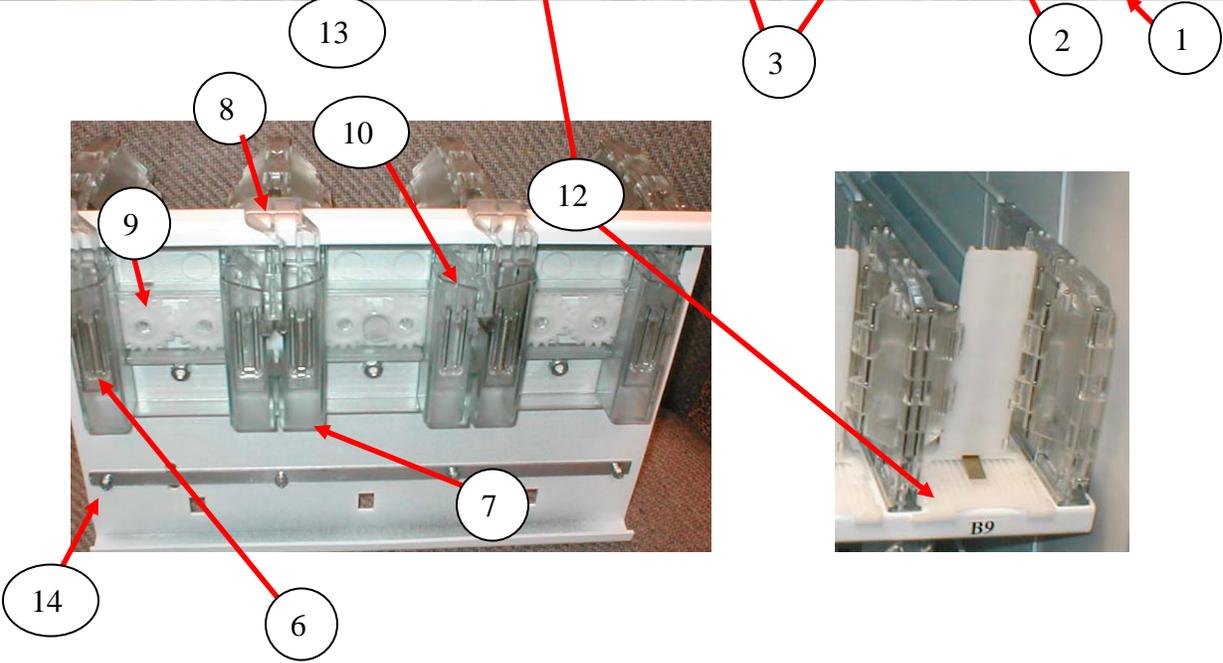
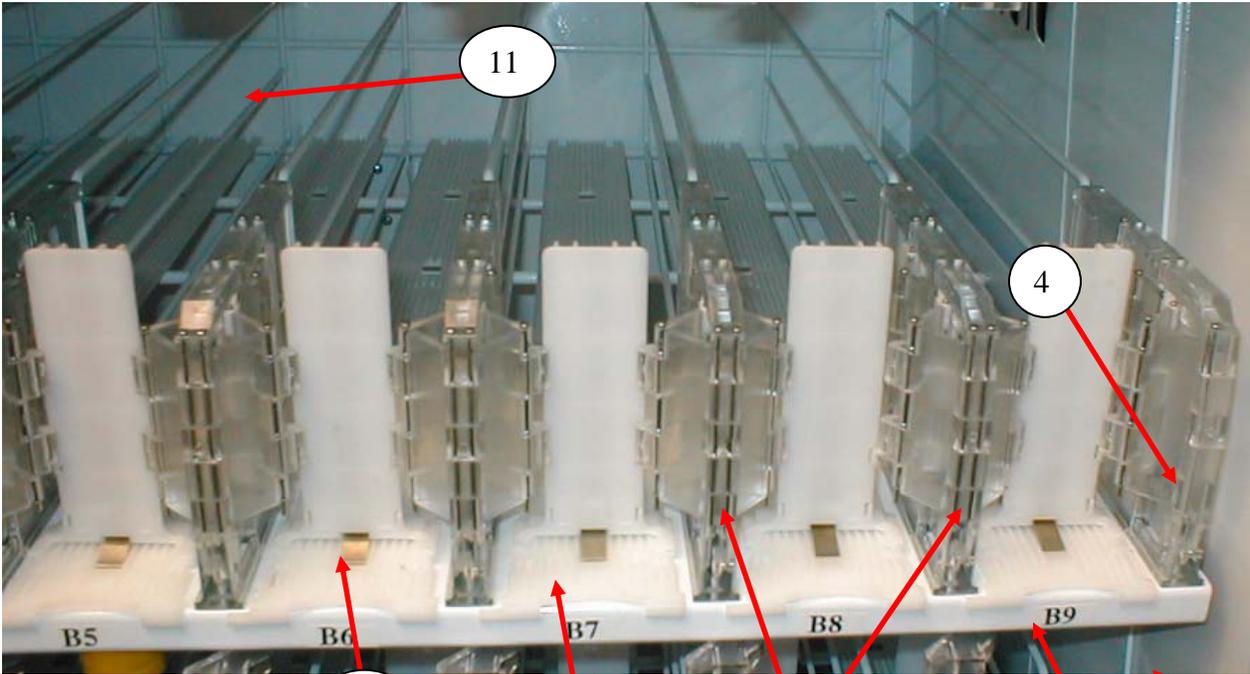
ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Display Lens, Blue (part of top bezel assy)	NA	NA
2	Screw, Nylon Circuit Board Support	CR0002205	Same
3	Assembly Display (Noritake)	80492386	Same
4	Rod, Latch Bar	64705003	Same
5	Door Harness	804,928,36x.x1	Same
6	Extended Coin Return Cup Assembly	80182429	Same
7	Hex Nut, 1/2 - 20	80151802	Same
8A	Door Security Plate (not shown)	64705041	Same
8B	Validator Filler Plate (shown)	36005072	Same
9	Lock Bar Spacer Pin	80050412	Same
10	Lock Bar	64705002	Same
11	Enclosure, Port	80182400	Same
12	DEX Harness	80492827	Same
13	Hex Nut for DEX Harness	80080165	Same
14	Service Door Security Angle	CR0001817	Same
15	Coin Insert Assembly	CR0002043	Same
16	Compress Spring	80470154	Same
17	Keypad Cable Clamp with adhesive was 80480112	CR0005752	Same
18	Coin Return Button Bracket was CR0002303	CR0005650	Same
19	Coin & Keypad Bracket Assembly	CR0001800	Same
20	Panel Retainer Clip (holds membrane switch.& overlay to bracket)	CR0002204	Same
21	Coin Insert Chute	80182355	Same
22	Coin Return Button was 801,823,14x.x1	CR0007492	Same
23	Keypad & Overlay, Membrane Switch Assembly with metal dome	80410142	Same
24	Keypad Overlay, Gray was 80388894	NA	NA
25	Extended Change Cup Security Bracket was 647,050,58x.x3	CR0005680	Same
26	T Handle Assembly	80152600	Same
27	T Handle Security Bracket	64705063	Same
28	Hex Washer #29-34, T Handle	90150308	Same
29	Door Switch Striker Plate was 64705057 & 64705038	CR0005680	Same
30	Port Circuit Board (top of port assy.)	80492511	Same
31	Seal, Rubber "D" Gasket	NA	NA
32	Vend Sensor Board Assembly, Port	CR0002851	Same
33	Door Stop	64700075	Same
34			
35			
36			

Part numbers & descriptions are subject to change with out notice.

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** Display Lens is sonic welded to top bezel and is not available as a separate item. See item 3 page 82.

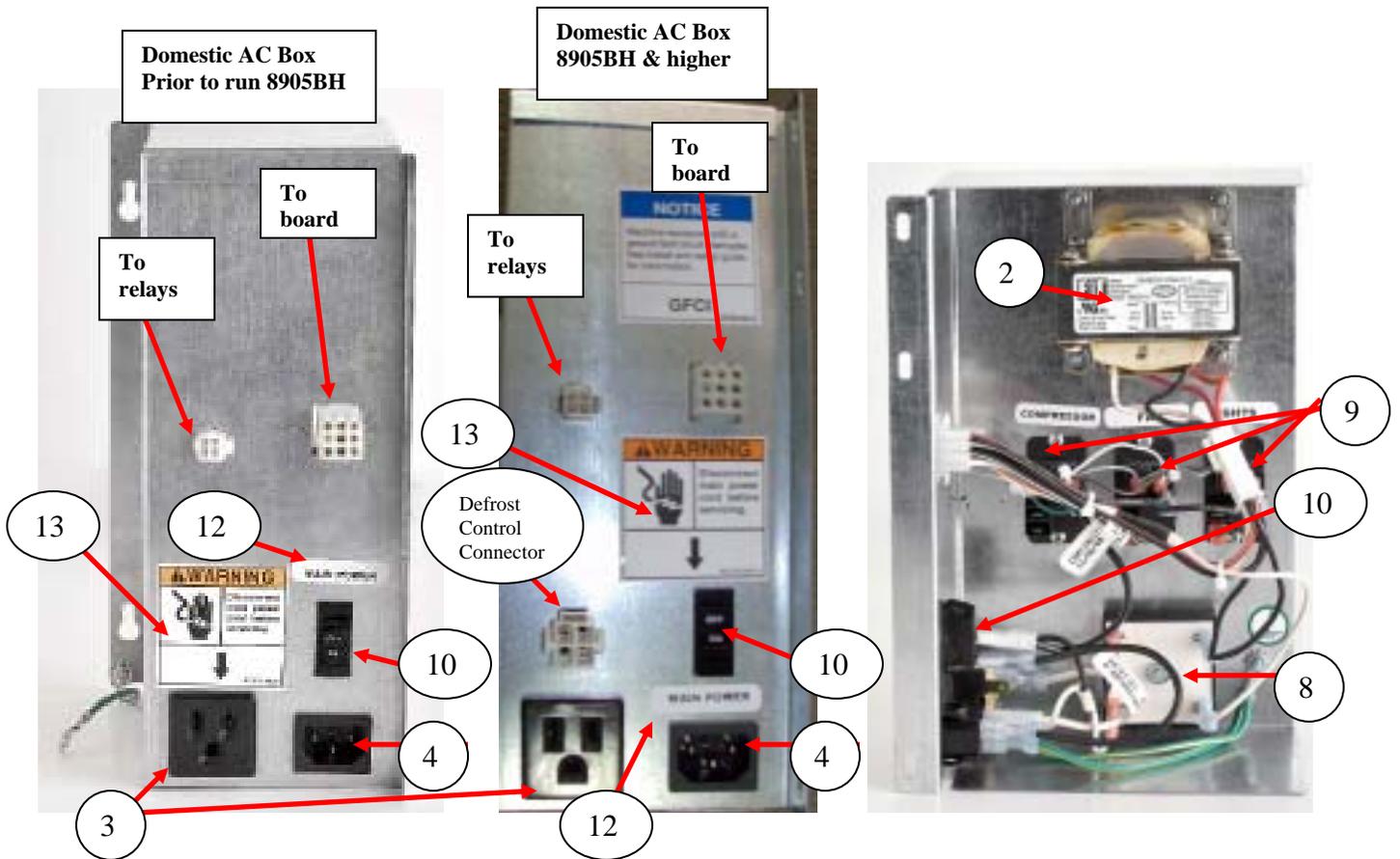
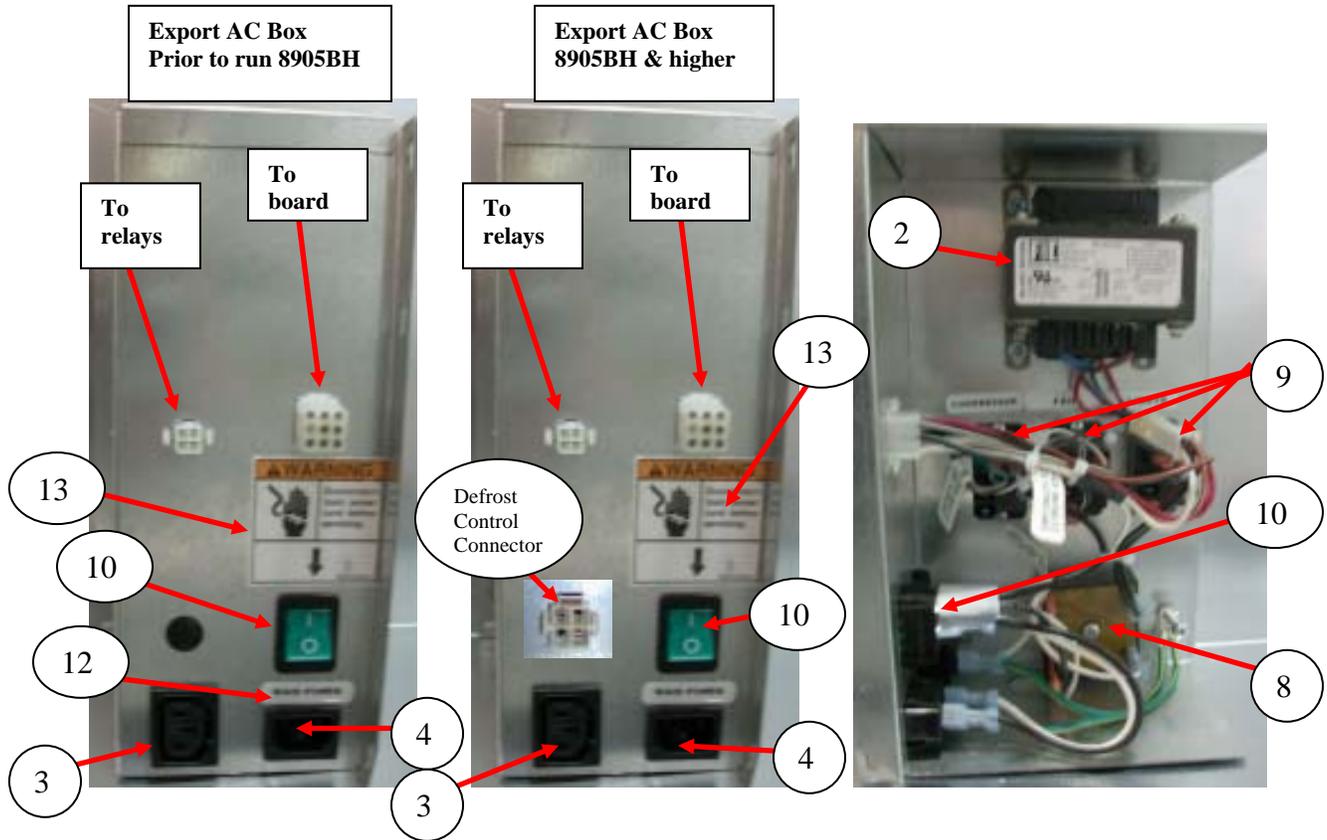
GATE TRAY DETAIL



GATE TRAY DETAIL

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Tray Assy., 9 Column	65700510	NA
	Tray Assy., 7 Column	NA	CR0013718
2	Chassis Tray, Tall Gate was 647,070,89x.x3, 647,071,50x.x3	CR0004077	NA
	Chassis Tray, Tall Gate	NA	CR0004139
3	Double Gate Assembly Kit (gate & 2 screws) was 64701110	65701260	Same
	Double Gate Assembly was 80182018	80182441	Same
4	Double Gate Assembly Right Kit (gate & 2 screws) was 64701120	65701240	Same
	Double Gate Assembly Right was 80182029	80182443	Same
5	Double Gate Assembly Left Kit (gate & 2 screws) was 64701130	65701250	Same
	Double Gate Assembly Left was 80182031	80182442	Same
6	Spring Gear Box	Part of #7	Same
7	Gear Box Assembly, 3 column	80182062	Same
	Gear Box Assy., 2 column	NA	80182196
8	Double Gate Drive Mech Target	Part of #7	Same
9	Double Gate Drive Mech Gear	Part of #7	Same
10	Double Gate Drive Mech Follower	Part of #7	Same
11	Tray Wire, Formed Domestic 9 Column (Wide)	80140293	NA
	Tray Wire, Formed Domestic 7 Column (Narrow)	NA	CR0000878
12	Slide with Product Pusher Assembly was 80182096	80182492	Same
13	Product Pusher Spring	80170113	Same
14A	Screw, Hex Head Hi Lo #6 X ½ (5/30/08 & higher)	1572269	Same
14B	Screw, Hex Washer #4-24 X ¾ (prior to 5/30/08)	80130417	Same
15	1/8" Socket, ¼" Drive	80010194	Same
	3/16" Socket, ¼" Drive	80010252	Same
16	Stabilizer, Tray Slide (8881-0049AH & higher)	80190501	Same
Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

AC DISTRIBUTION BOX

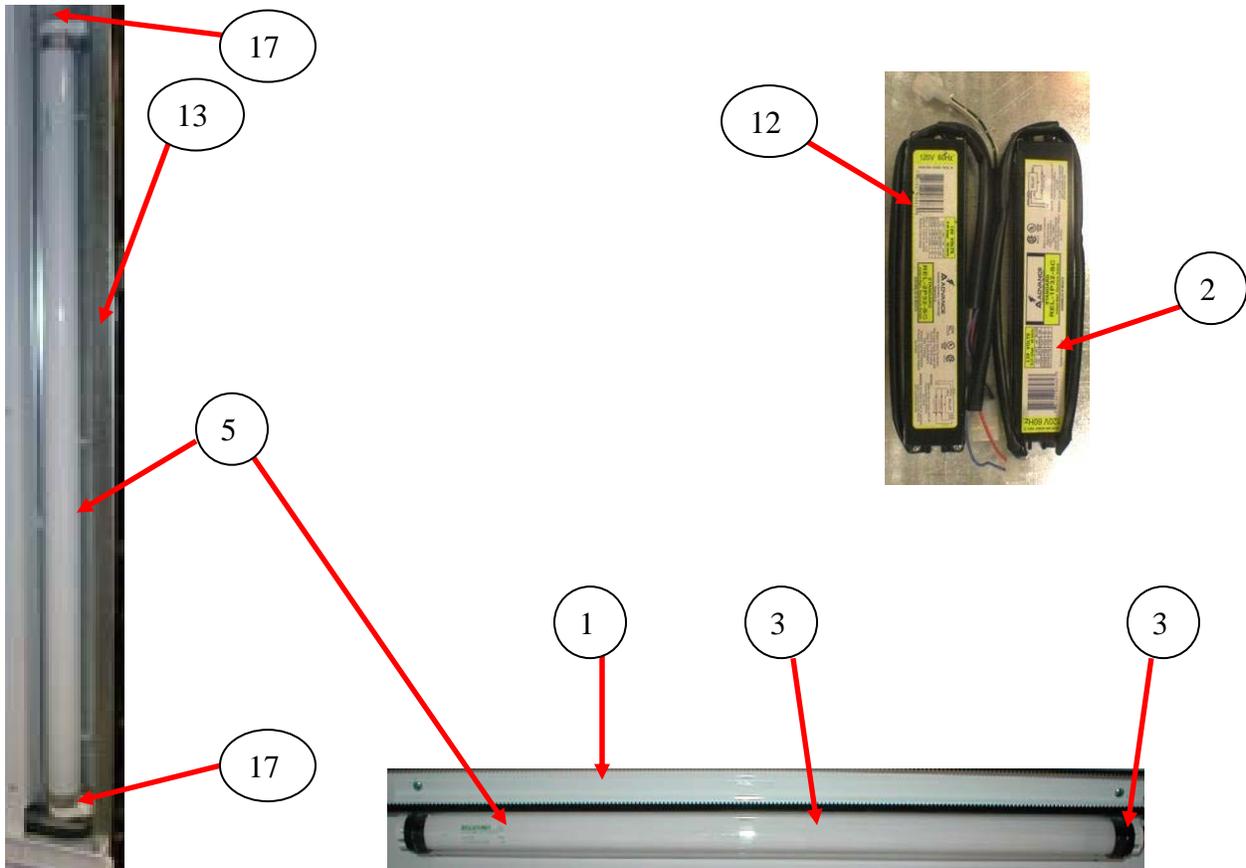


AC DISTRIBUTION BOX

ITEM	PART DESCRIPTION	DN5800-4 DN3800-4 Domestic	DN5800-E4 DN3800-E4 Export
1	Assembly AC Distribution Box, BevMax 4	65707070	657,070,90x.x3
2	Transformer, 120V / 24V, 60 Hz, 8A Domestic	804,925,14x.x1	NA
	Transformer, Export	NA	80492868
3	Outlet, 15 Amp, Grounded	W662	NA
	Receptacle, Panel Mount IEC 320	NA	80491114
4	Power Inlet Plug	80491362	Same
5	Harness, AC Power In	80492843	Same
6	Harness, Power Distribution	80492842	Same
7	Harness, Main Power – GFCI Inline	65701080	NA
8	Choke	80492692	80492691
9	Relay – Fan, Compressor, and Light	80420026	Same
10	Rocker Switch	80491515	80410112
11	Harness, Relay	80492840	Same
12	Main Power Label was 80386085	80388747	Same
13	Label, AC Box Power Disconnect	80387694	Same
14	Defrost Control Harness	80492871	Same
15	Harness, Compressor Power AC Box (connects to 80492871011)	80492895	Same
16			
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Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			

LIGHTING - Fluorescent

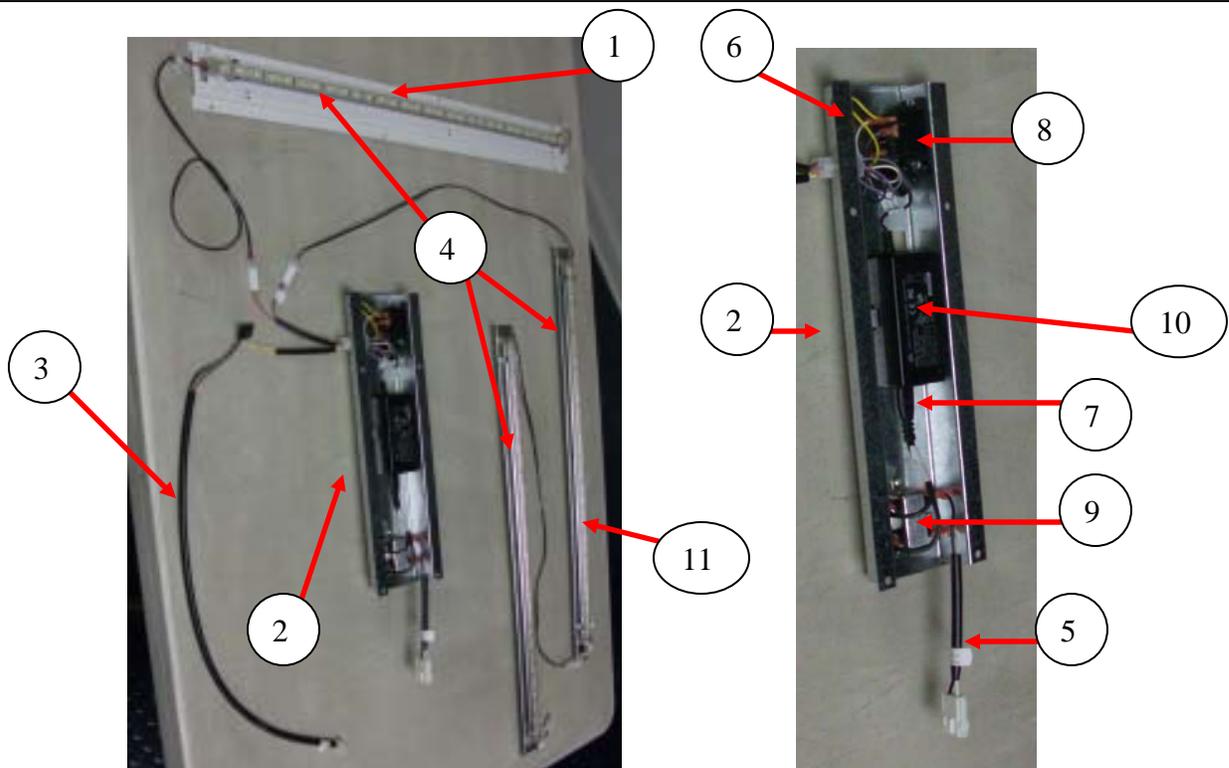
ITEM	PART DESCRIPTION	DN5800-4/3800-4 Domestic	DN5800-E4/3800-E4 Export
1	Horizontal (Upper) Light Assembly (1 Lamp)	65701210	65701130
2	Ballast Assembly, T8 Electronic 110V/60Hz (Horizontal Lamp) – 2 pin connector	80440126	80440134
3	Lamp Cover (22.6") & End Caps	80190477	Same
4	Light Harness, 120 Volt – 1 Lamp T8 (Upper Light Assy.)	80492852	804,928,84x.x1
	Lamp Holder, T8 Bi Pin - Leviton 23653 (Horizontal)	Use 4	NA
5	Fluorescent Lamp T8, 2' (OS #21718)	80470077	80470103
8	Canoe Clip – Lens Cover	80090361	Same
11	Vertical Light Assembly (2 Lamp)	65701100	65701140
12	Ballast Assembly, T8 Electronic 110V/60Hz (Vertical Lamps) - 9 pin connector	80440125	80440135
13	Assembly Lamp Channel 2' (Vertical)	647,061,70x.x3	Same
14	Lens, Fluorescent Lamp Vertical	80160328	Same
5	Fluorescent Lamp T8, 2' (OS #21718)	80470077	80410130
16	Light Harness, 120 Volt – 2 Lamp T8	80492844	804,928,85x.x1
17	Lamp Holder, T8 Bi Pin - Leviton 23652 (Vertical)	80492062	NA
8	Canoe Clip – Lens Cover	80090361	Same
Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by			



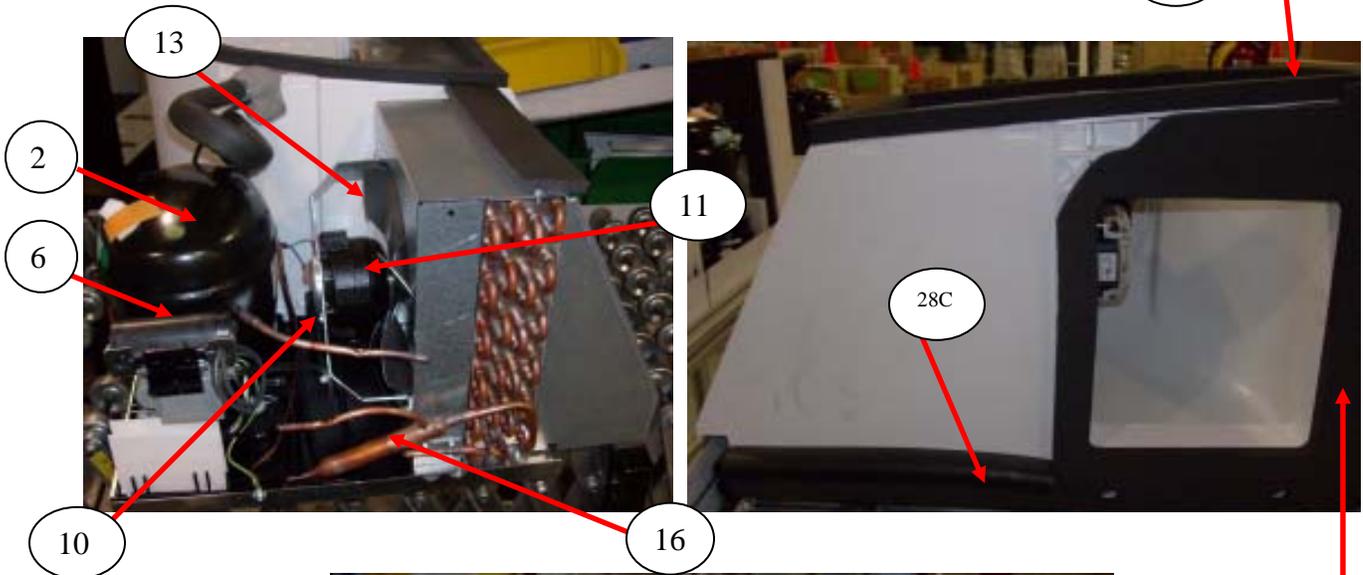
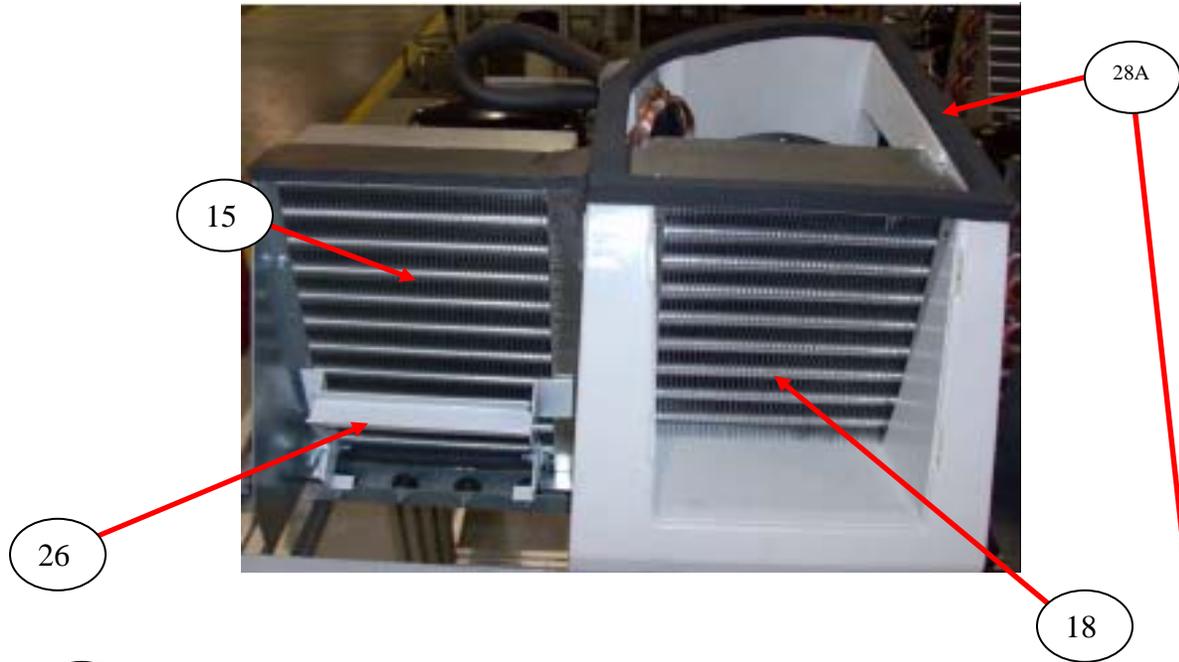
LIGHTING - LED

ITEM	PART DESCRIPTION	DN5800-4/3800-4 Domestic	DN5800-E4/3800-E4 Export
1	Horizontal (Upper) Light Assembly (1 Lamp) LED	65701160	Same
2	LED Module Assembly (does not include power supply switch mod line – 24vDC) was 65701190	65701180	Same
3	Harness, Relay extension, 5800-4 with LED's	80492886	Same
4	Lamp Assy., T5 600MM, 30 LED's 24vDC	9985061	Same
5	Harness, Power LED Lighting (to filter)	80492887	Same
6	Harness, LED Output (to relay)	80492888	Same
7	Harness, LED Adapter (to power adapter) was 80492889	9985055	Same
8	Relay	80420026	Same
9	Light Filter	AP380303	Same
10	Power Supply, Switch Mode (Line – 24vDC)	9985050	Same
11	Vertical (Side) Light Assembly (2 Lamp) LED	65701170	Same
12	Assy. Lamp Chanel 2' Modified	64706048	Same
13	Lens	80160328	Same
14	Canoe Clip – Lens Cover	80090361	Same
15			

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



**REFRIGERATION UNIT BevMax 4
(with Plastic Evap Box - 9539-0032DJ and higher)**



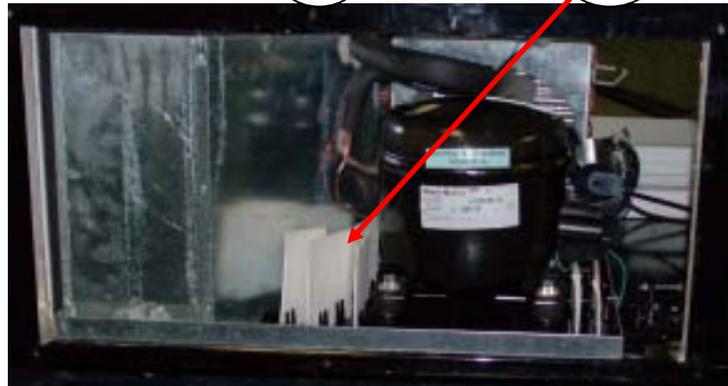
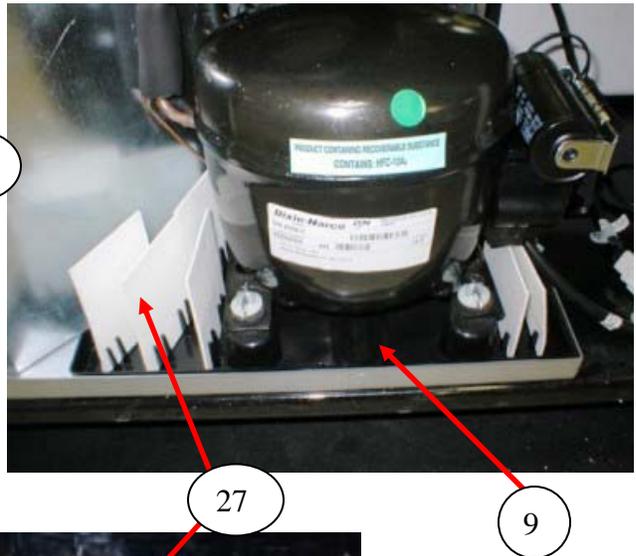
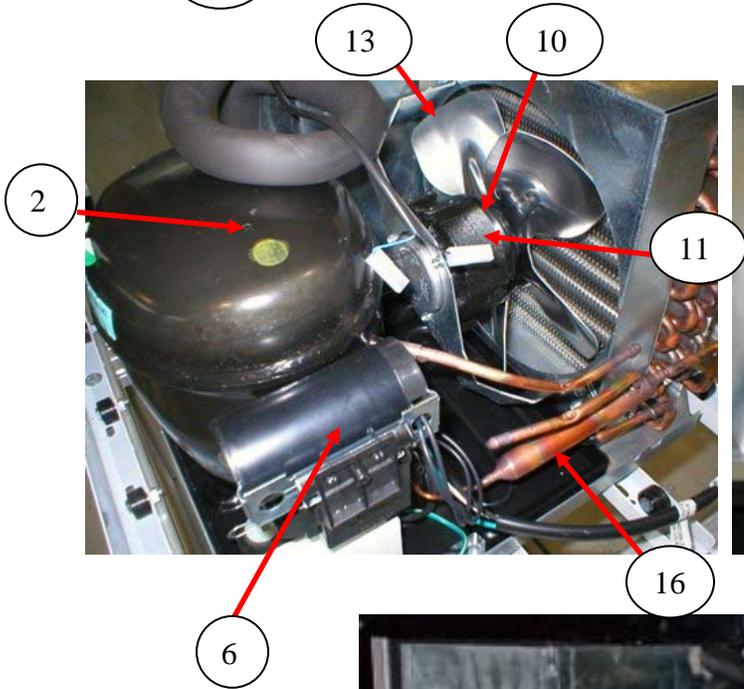
REFRIGERATION UNIT BevMax 4

(with Plastic Evap Box - 9539-0032DJ and higher)

ITEM	PART DESCRIPTION	DN5800-4/3800-4 Domestic	DN5800-E4/3800-E4 Export
1A	Refrigeration Unit, 115V/60Hz Domestic Kit (Plastic Evap Box)	65701270	NA
	Refrigeration Unit, 230V/50Hz Export Kit (plastic Evap Box)	NA	65701290
2	Compressor Assy. FFU130HAX , 115V/60Hz Domestic (1/3 HP)	80250289	NA
2A	Compressor, Domestic (Embraco 513200620)	80250288	NA
2B	Compressor, Export	NA	CR0004162
3	Overload, 115V Domestic (EM# 513554617)	80240213	NA
4A	Relay, 110V –Domestic (EM# 213516051)	80240216	NA
4B	Relay, 220V –Export	NA	CR0004863
5	Cover, Electrical	80240214	CR0004172
6A	Start Capacitor, 110V – Domestic (EM# 3252378)	80240218	NA
6B	Start Capacitor, 250V/50Hz Export	NA	CR0004174
7	Start Capacitor, End Cap Bottom Hole	80240220	NA
8	Bracket, Capacitor	80240217	NA
9	Drain Pan, Condensate – with Wicks	CR0002072	Same
10A	Assembly Condenser Fan, Domestic	CR0002309	NA
10B	Assembly Condenser Fan , 220V, 16W, 10” Export	NA	CR0004747
11A	Condenser Fan Motor, 9W Domestic was 80450193	80450187	NA
11B	Condenser Fan Motor, Export 16W	NA	CR0004145
12	Silencer	80210052	Same
13	Fan Blade, Condenser	80130866	CR0004748
14	Speed Nut	80080199	Same
15	Condenser Coil	CR0010358	Same
16	Dryer	80240129	Same
17	Grommet Compressor	90200057	Same
18	Evaporator Coil	CR0004391	Same
19	Accumulator	80240046	Same
20	Encapsulated Temperature Sensor	80492821	Same
21	Assembly Evaporator Fan 115V Energy Star (5 blade)	80450154	NA
	Assembly Evaporator Fan 230V/50Hz (5 blade)	NA	CR0004783
22	Evaporator Fan, 115V	80450151	NA
	Evaporator Fan, EBM (5 blade) 220-230/50 includes harness	NA	CR0004180
23	Defrost Control	CR0002421	Same
24	Evaporator Drain Pan Assy.	NA	Same
25	Condensate Drain P Trap	CR0002026	Same
26	Deck Handle Clamp	CR0002304	Same
27	Soaker	90580069	Same
28	Gasket Assembly – includes: A – CR0002551 Top Evaporator; B – CR0002552 Right side Evaporator; C – CR0005730 Lower Right side air gasket	CR0002615	Same
29	Refrigeration Deck Clamp	CR0002203	Same
30	Grill	CR0007259	Same

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**REFRIGERATION UNIT BevMax 4
(with Metal Evap Box prior to 9539-0032DJ)**

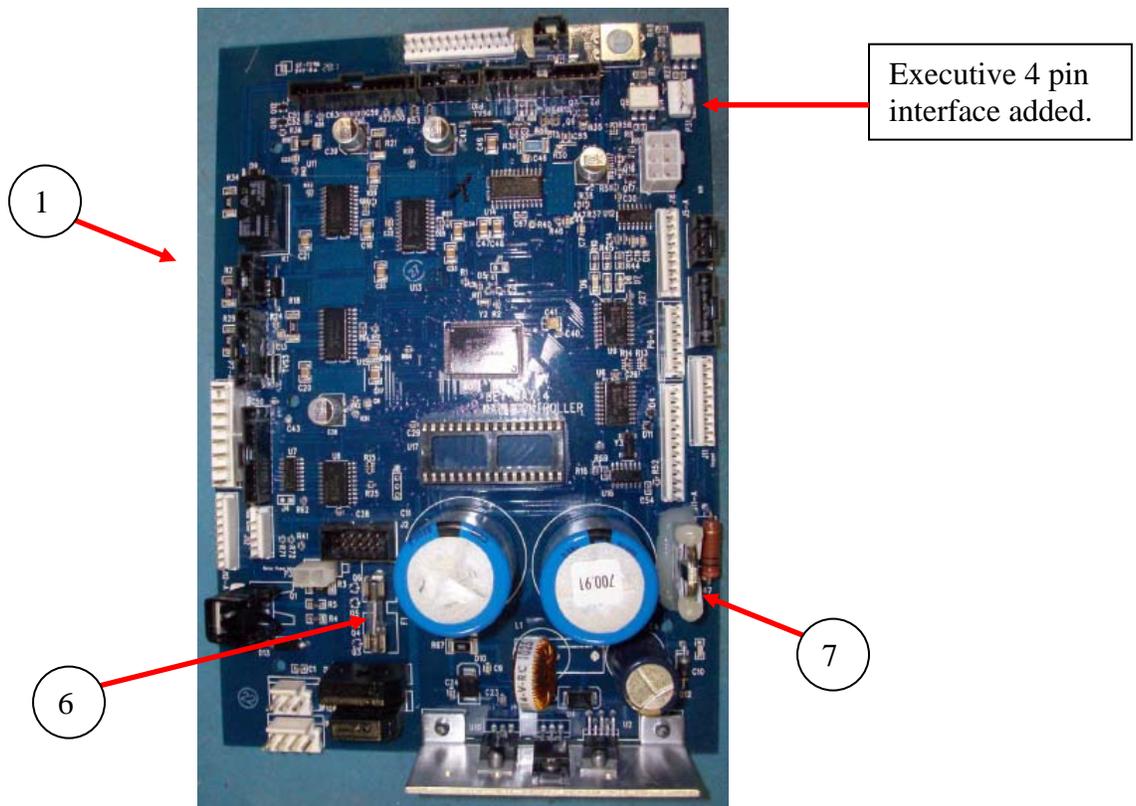


**REFRIGERATION UNIT BevMax 4
(with Metal Evap Box prior to 9539-0032DJ)**

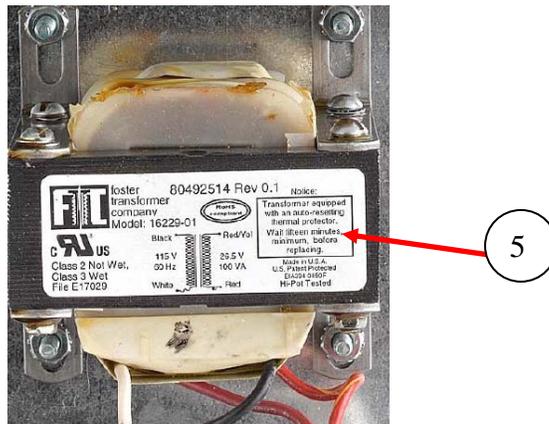
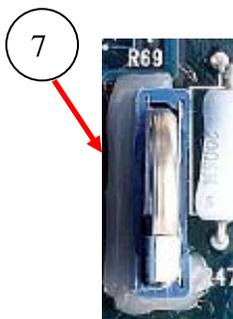
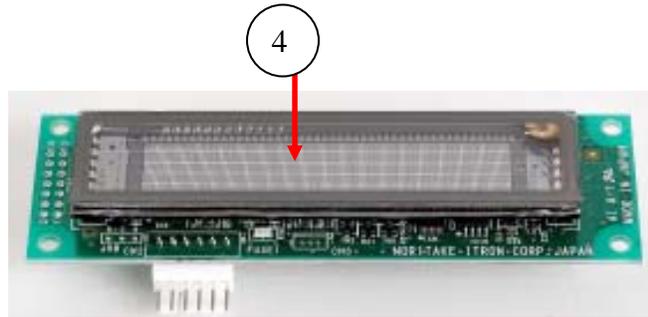
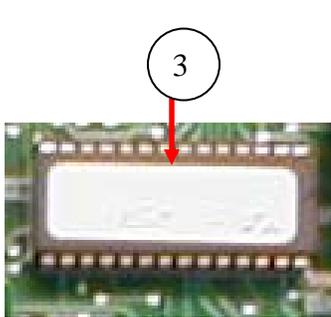
ITEM	PART DESCRIPTION	DN5800-4/3800-4 Domestic	DN5800-E4/3800-E4 Export
1A	Refrigeration Unit, 115V/60Hz Domestic Kit was 65704000	65701270	NA
	Refrigeration Unit DN2028 C Kit, 230V/50Hz Export Kit	NA	CR0004811
2	Compressor Assy. FFU130HAX , 115V/60Hz Domestic	80250289	NA
2A	Compressor, Domestic (Embraco 513200620)	80250288	NA
2B	Compressor, Export	NA	CR0004162
3A	Overload, 115V Domestic (EM# 513554617)	80240213	NA
4A	Relay, 110V –Domestic (EM# 213516051)	80240216	NA
4B	Relay, 220V –Export	NA	CR0004863
5	Cover, Electrical	80240214	CR0004172
6A	Start Capacitor, 110V – Domestic (EM# 3252378)	80240218	NA
6B	Start Capacitor, 250V/50Hz Export	NA	CR0004174
7	Start Capacitor, Cap	80240220	NA
8	Bracket, Capacitor	80240217	NA
9	Drain Pan, Condensate – with Wicks	CR0002072	Same
10A	Assembly Condenser Fan, Domestic	CR0002309	NA
10B	Assembly Condenser Fan , 220V, 16W, 10” Export	NA	CR0004747
11A	Condenser Fan Motor, 9W Domestic was 80250193	80450187	NA
11B	Condenser Fan Motor, Export 16W	NA	CR0004145
12	Silencer	80210052	Same
13	Fan Blade, Condenser	80130866	CR0004748
14	Speed Nut	80080199	Same
15	Condenser Coil	80260079	Same
16	Dryer	80240129	Same
17	Grommet Compressor	90200057	Same
18	Evaporator Coil was 80260081	80260079	Same
19	Accumulator	80240046	Same
20	Encapsulated Temperature Sensor	80492821	Same
21	Assembly Evaporator Fan 115V Energy Star (5 blade)	80450154	NA
	Assembly Evaporator Fan 230V/50Hz (5 blade)	NA	CR0004783
22	Evaporator Fan, 115V	80450151	NA
	Evaporator Fan, EBM (5 blade) 220-230/50 includes harness	NA	CR0004180
23	Defrost Control was 80280084	CR0002421	Same
24	Evaporator Drain Pan Assy.	CR0001890	Same
25	Condensate Drain P Trap	CR0001296	Same
26	Deck Handle Clamp	CR0002304	Same
27	Soaker	90580069	Same
28	Gasket Assembly – includes A – 80210047 Top Evaporator; B - 80210048 Right side Evaporator; C - 80210051 Top Condenser ; D- 80210048 Right side air gasket	CR0001099	Same
29	Refrigeration Deck Clamp	CR0002203	Same
30	Grill	65704039	Same
31	Assembly Inlet Screen Indonesia Only	NA	CR0005861
32	Power Exit Cover Indonesia Only	NA	CR0005866

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ELECTRONICS



Coke BevMax 4 EXE Control Boards

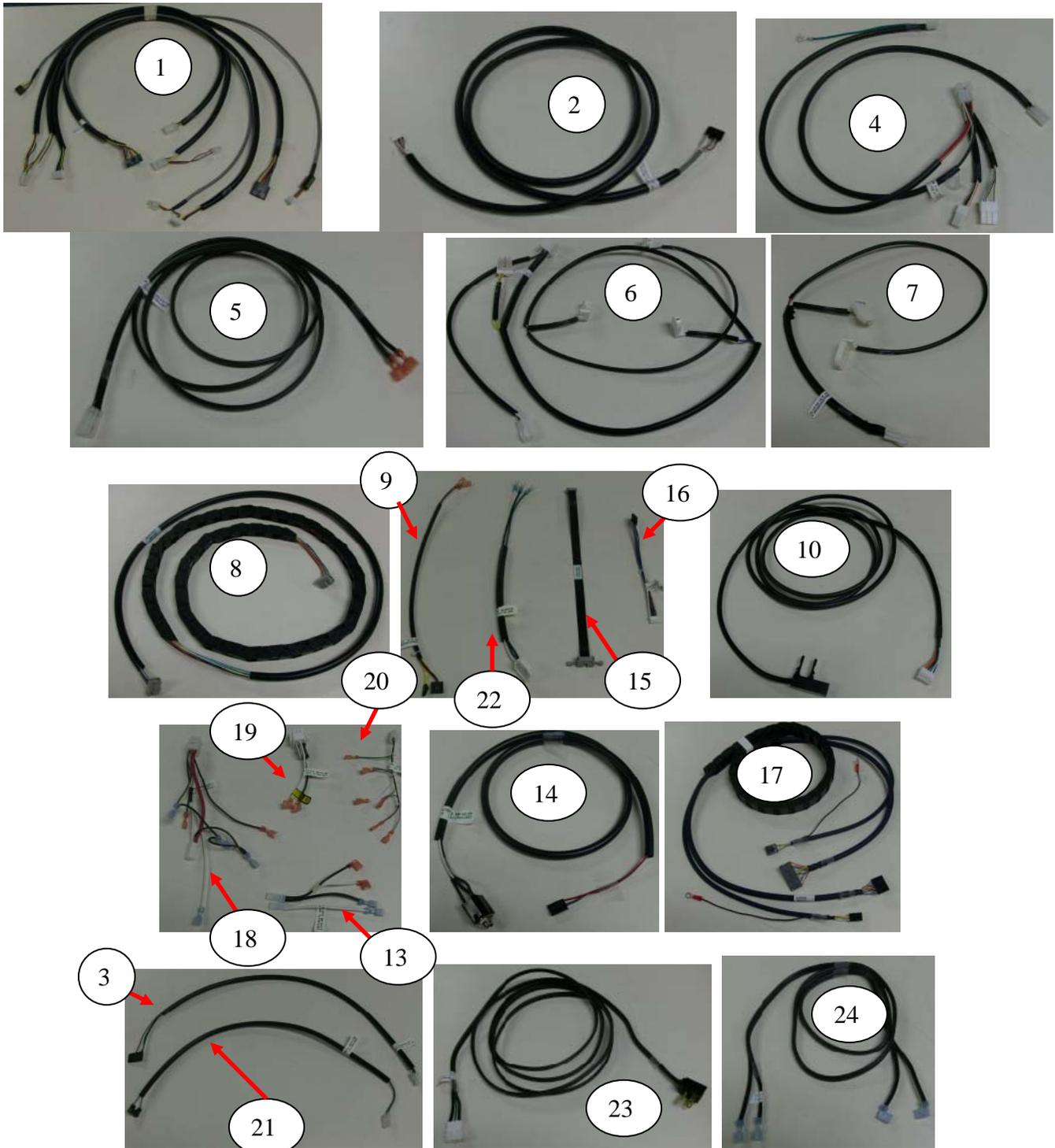


ELECTRONICS

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	BevMax 4 Control Board Service Kit (Note: refer to CMS Tech Notice M097.# for older vender kits)	64700780	Same
	BevMax 4 Control Board Service Kit – Indonesia only	65700390	Same
2	Standoffs, .8 – 32 x 5/8 (was 80100175)	80190380	Same
3	EPROM, Firmware, BevMax 4 Board	80492770	Same
	EPROM, Firmware, BevMax 4 Board – Indonesia only	80492873	Same
4	Display Assembly (Noritake)	80492386	Same
5	Transformer – Domestic (shown)	804,925,14x.x1	Same
	Transformer – Export (not shown)	80492868	Same
6	Fuse, 3 Amp 5 X 20mm Sloblo (on Control Board)	80480116	Same
7	Battery, 3 Volt Lithium (CR20332)	80492045	Same
8	Encapsulated Temperature Sensor	80492821	Same
9	Choke, Evaporator Fan Assembly & Lighting/AC Dist Box – Domestic	80492692	Same
	Choke, Evaporator Fan Assembly & Lighting/AC Dist Box – Export	80492691	Same
10	Board Y Motor	80492532	Same
11	Motor XY System was 80450184	80450189	Same
12	Control Board Cover	CR0001619	Same
13	Delivery (Picker) Cup Base Board was 80492765	80492916	Same
14	Motor, Port & Delivery Cup	80450161	Same
15	Port Vend Sensor with Harness	80492749	Same
16	Port Circuit Board	80492511	Same
17	Relay – Fan, Compressor, & Light	80420026	Same
18	Triteq Lock 701 Gullo Elk Grove Village, IL 60007 Phone 847-640-7002		
19	Controller Mounting Bracket	64700098	Same
20			

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HARNESSES



HARNESSES

ITEM	PART DESCRIPTION	FROM/TO	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Harness, Door Bundle 44" long	Black & grey hrs 12 pin flat black plug to P2 of board, 4 pin white plug to port motor, 7 pin flat white plug to port board. Black hrs 10 pin flat white plug to PJ11 of board, 10 pin flat black plug to key pad. Black & black hrs 6 pin white plug to J16 or board, 6 pin white cap to mdb mech, 6 pin white cap to mdb peripheral, 2 pin white plug to electronic lock if used. Grey hrs 7 pin flat black plug to P6 of board, 6 pin flat white plug to display.	80492836	Same
2	Harness, X Motor, 74" long	8 pin flat black at P15, 4 pin white plug to motor	80492825	Same
3	Relays Extension Harness, 23" long	10 pin flat black at P7 to 4 pin white plug at AC Distribution Box	80492828	Same
4	Harness, AC Distribution Interior Power, 28" long	3 pin white plug at P1 to 9 pin white cap at AC Distribution Box, 2 pin white plug at evaporator fan, 2 pin plug to 2 lamp ballast harness, 3 pin white plug to 1 lamp ballast harness was 804,928,35x.x1	80492819	Same
5	Harness, Evaporator, 80" long	2 spade plugs to evaporator fan harness to 2 pin white plug from AC Box Harness	80492848	Same
	Harness, Evaporator Fan	Connects to Fan	80492467	Same
6	Harness, Lighting 2 Lamp	9 pin white plug to ballast, 2 pin white cap to 2 pin white plug from AC Distribution Box	80492844	Same
7	Harness, Top Light 1 Lamp	2 pin white cap from horizontal light to 2 pin white plug from lighting harness	80492852	Same
8	Harness, Y Motor E Chain	10 pin Gray at J1 of Y board, 10 pin Gray to delivery cup harness Was 80492479	CR0013743	Same
9	Harness, Dual Door Switch with CC Dongle, 14" long	6 pin flat black at P10 to Double Door Switch	80492853	Same
	Harness, Machine Options with CC Dongle	13 pin black to P10A, 2 pin socket to override switch kit, 2 spades to door switch was 804,927,880.01 & 80492927	80492899	Same
	Harness, Single Door Switch	6 pin flat black at P10 to Single Door Switch, 3 pin flat black to J3	80492823	Same
10	Encapsulated Temp Sensor	6 pin plug at J12 to Temp Sensor 87" long	80492821	Same
11	Harness, Port Cup Bottom – Vend Sensor	4 pin plug to bottom of Port Cup	80492750	Same
12	Harness, Main Power 198" long	Detachable GFCI Power Cord	65701080	Same
	Cord, Power UK	Detachable, 3 pin 78" long	80492566	Same
	Cord, Power Denmark	Detachable, 3 pin 78" long	80492900	Same
	Cord, Power Israel	Detachable, 3 pin 78" long	80492902	Same
	Cord, Power South Africa	Detachable, 3 pin 78" long	80492904	Same
	Cord, Power Australia	Detachable, 3 pin 78" long	80492905	Same
	Cord, Power Europe Shulo	Detachable, 3 pin 78" long	80492906	Same
13	Harness, AC Power In	In AC Distribution Box 2 white caps, 2 red flag, 2 blue spade connectors	80492843	Same
14	Harness, DEX 36" long	4 pin flat black connector at J5	80492827	Same
15	Harness, Cup to E-Chain	10 pin Gray at J3 Picker Cup Board to Y E Chain (Black Ribbon Harness)	80492374	Same
16	Harness, Board to Y Motor	6 pin flat black at P1 Y Board to 6 pin white to Y Motor	80492421	Same
17	Harness, X/Y E Chain, 56 » long	14 pin flat black at P14 controller to 10 pin flat black at P6 Y Board, 5 pin flat black at P8 controller to 4 pin flat black at P3 Y Board	80492826	80492926
18	Harness, Power Dist.	9 pin cap to relays & transformer	80492842	Same
19	Harness, Choke Output	9 pin plug to AC Dist. Box Choke	80492049	Same
20	Harness, Relay AC Box	4 pin cap to relay harness, compressor relay, fan relay, light relay	80492840	Same
21	Power Interrupt Sw. (Motor By Pass) 21" long	2 pin white plug to P3	80492824	Same
22	Harness, Compressor Extension 23" long	3 "U" shaped connectors from overload/relay to 3 pin white socket to item 28	80492849	Same
23	Harness, Compressor Power Domestic	3 pin white plug to item 27 - 115" long	80492829	Same
	Harness, Compressor Power Export	3 pin white plug to item 27 - 115" long was 80492893	80492934	Same
24	Harness, Defrost Control	2 blue flag connectors to AC Box, 2 blue spade connectors to Defrost Control	80492871	Same

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

LABELS / DECALS / MISC.

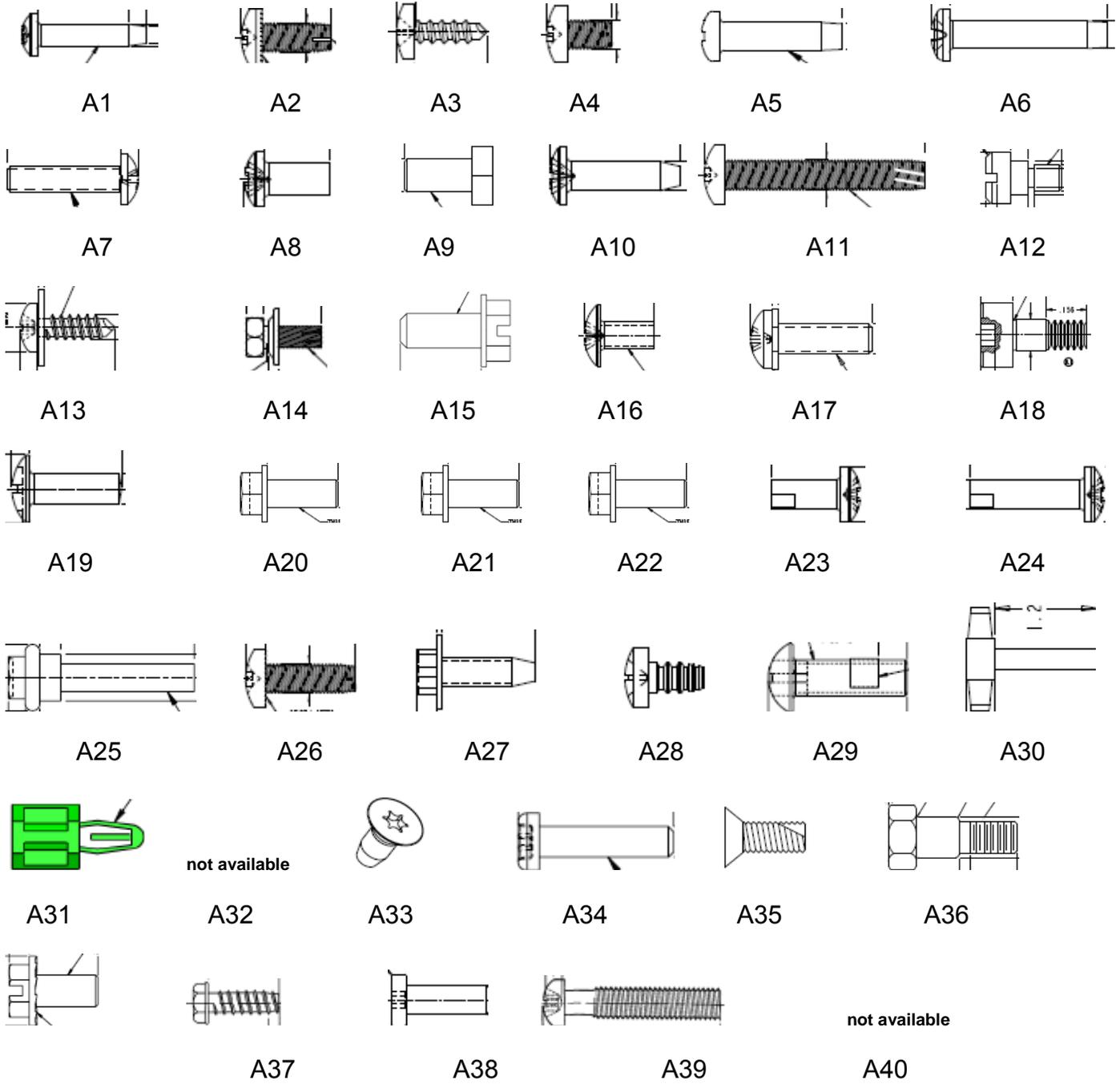
Note: Graphics change frequently.

Contact your Crane Merchandising Systems Representative for current graphic parts & part numbers.

ITEM	PART DESCRIPTION	DN5800-4 DN5800-E4	DN3800-4 DN3800-E4
1	Vender Lag Bracket Kit	627,020,60x.x4	Same
2	Thermometer	80140155	Same
3	Price Sheet .35 – 1.10	80387751	Same
	Price Sheet 1.15 – 1.85	80387752	Same
	Price Sheet 1.90 – 3.75	80387753	Same
4	Label, Selection - BevMax 4 5800-4 (A1 to E9/A1 to E7)	80385726	CR0004953
5	Label, Warning “DO NOT TILT”	80386829	Same
6	Programming Card, Quick Reference	CR0005060	Same
7	Label, Coin Mech	80385325	Same
8	Decal, Side Cabinet – Coke	80388892	Same
	Decal, Side Cabinet – Dasani	80388891	Same
9	Decal , Glass Door – Coke	80388860	Same
	Decal , Glass Door – Dasani	80388855	Same
10	Decal, Cup Base – Coke	80388793	Same
	Decal, Cup Base – Black	80388586	Same
	Decal, Cup Base – Dasani	80388583	Same
11	Decal, Sleeve – Coke Straight	80388520	Same
	Decal, Sleeve – Black Straight	80388487	Same
	Decal, Sleeve – Dasani Straight	80388581	Same
12	Wiring Diagram, Domestic Fluorescent Lighting	80388848	Same
	Wiring Diagram, Domestic LED Lighting	80388954	Same
13	Wiring Diagram, Export Fluorescent Lighting	80388917	Same
	Wiring Diagram, Export LED Lighting	80388954	Same
14	Coke BevMax 4 5800-4 Technical Manual, Service / Operation / Parts – 8900ABH	80390466	Same
	Coke BevMax 4 5800-4 Manual, Installation SetUp Guide – 8900BH	80390467	Same
15	Overlay Keypad – Gray was 80388894	NA	NA
16	Label, Factory XY Settings	80388804	Same
17	Label, Warning Ramp	80388543	Same
18	Shipping Bracket & Bolt Instruction Sheet	80090443	Same
19	Decal, Top Bezel - Coke Large Bottle	80388787	Same
20	Decal, Lower Bezel - Enjoy	80388790	Same
21	Decal, Lower Bezel – Thank You	80388791	Same
22	Override Switch Kit	626,020,44x.x4	Same
23			
Part numbers & descriptions are subject to change with out notice. NA = Not applicable TBD = To be determined RB = Replaced by. Contact Dixie Narco for other available graphics.			

Screws

(diagrams are for shape reference only)



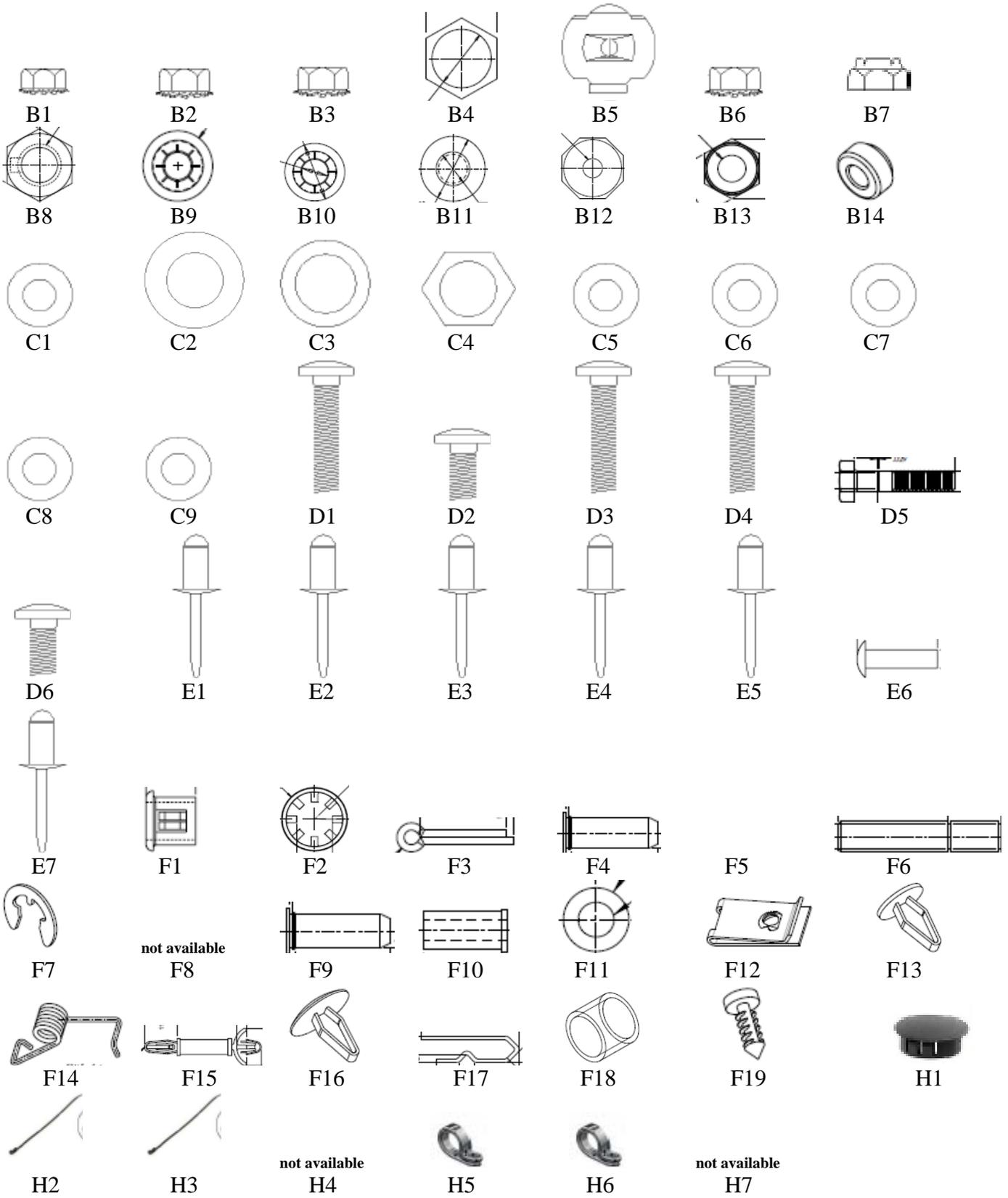
SCREWS

ITEM	PART NUMBER	PART NAME AND DESCRIPTION
A1	80030446	Screw, Phil Pan Head 1/4 - 20 x 1 1/4"
A2	80030422	Screw, Phil Pan #8 - 32 x 3/8"
A3	80030418	Screw, Phil Pan w/out washer self drilling, #8 - 18 x 1/2"
A4	80030434	Screw, Phil Pan Swage Form #8 - 32 x 1/4"
A5	80030499	Screw, Phil Pan #2-32 x 3/8"
A6	80030501	Screw, Phil Pan, #2-32 x 1/2"
A7	80030479	Screw, Phil Pan #4-24 x 1/2"
A8	80020257	Screw, Pan Head 8 - 32
A9	80020284	Screw, Hex Head 1/4-28 X .5
A10	80030494	Screw, Phil Pan #8 - 32 x 5/8"
A11	80030428	Screw, Phil Pan Form #10 - 32 x 1 1/4"
A12	80020255	Screw, Fl Flstr Shoulder #10 - 32 x 1/4"
A13	80030423	Screw, Phil Pan Sems with washer, #8 - 18 x 1/2"
A14	80030436	Screw, Self Tapping, 1/4 - 20 x 5/8"
A15	80030468	Screw, Hex Washer 8x5/8"
A16	80020265	Screw, Phil Truss #10 - 32 x 3/8"
A17	80030503	Screw, Phil Pan with lock washer #4 - 40 x 3/8"
A18	80020236	Screw, Shoulder #4-40
A19	80030431	Screw, Phil Pan #8-18x1/2"
A20	80030454	Screw, Hex Head 10-16x .50
A21	80030449	Screw, Hex Tapping .250-20
A22	80030452	Screw, Hex Washer Head 1/4-20
A23	80030497	Screw, Phil Pan #8-18x.375"
A24	80030502	Screw, Phil Pan #8-18x5/8"
A25	80030417	Screw, 4-24 HiLo
A26	80030421	Screw, Phil Pan Swage Form #8-32x1/2"
A27	80030451	Screw, Hex Washer Head #8-18x1/2"
A28	80020248	Screw, Pan Head #6-32 X 1/4
A29	80030415	Screw, Nylock #8-32x1/2"
A30	80030529	Screw, Wing 1/4 - 20 x 1 1/4 molded nylon (for shipping bracket)
A31	CR0002205	Screw, Nylon (Circuit Board Support – Display)
A32	80030541	Screw, TEK Zinc #20 X .750
A33	AP13100035	Screw, Fl. Torx Tap 1/4-20 X 1/2
A34	80030488	Screw, Hex w/ washer 8-32 x 3/8
A35	80030433	Screw, Phillips Flat 10-32 X .5
A36	80050387	Screw, Shoulder 1/4-20 X .35
A37	80030540	Screw, Machine w/ lock 10-24 X 3/8
A38	1572269	Screw, Hex w/ Head, Hi-Lo #6 X 1/2
A39	80020250	Screw, Hex Button Head 10-32 X 5/8
A40	80020285	Screw, 10-32 X 1.375
A41		
A42		
A43		
A44		
A45		
A46		

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NUTS, WASHERS, BOLTS, & MISC. HARDWARE
 (diagrams are for shape reference only)



WASHERS, BOLTS, & MISC. HARDWARE

ITEM	PART #	PART NAME AND DESCRIPTION	ITEM	PART #	PART NAME AND DESCRIPTION
B1	80080156	Hex Nut, #10 - 32	E1	90110054	Pop Rivet, Black 1/8"
B2	80080157	Hex Nut, 1/4 - 20	E2	80110081	Pop Rivet, Steel (Zinc Plated) 1/8"
B3	80080154	Hex Nut, #8 - 32	E3	80110079	Pop Rivet, Steel (Zinc Plated) 3/16"
B4	80080165	Hex Nut, Dex Plug	E4	80110065	Pop Rivet, Aluminum 1/8" White
B5	90080085	Speed Nut	E5	48909023	Pop Rivet, SS 187
B6	80080166	Hex Nut with washer, #10 - 24	E6	19609043	Rivet, Bulbex 3/16 Black
B7	80080155	Elastic Stop Nut, #8 - 32	E7	80110066	Pop Rivet, Steel 3/16 Black
B8	80080152	Nut Jam Lock 5/16	E8		
B9	80090297	Push Nut .187 X .437	E9		
B10	80090302	Push Nut ID .250	E10		
B11	80080147	Push Nut Washer Cap Type	E11		
B12	80030478	Nylon Insert Lock Nut 1/4 - 20			
B13	80080195	Nut, 10-32 Nylock	F1	80190448	Nylon Bushing, Heyco 2867
B14	80080178	Nut, 1/4-20 Pemnut C420-1	F2	80090351	Retaining Ring
B15			F3	80090329	Cotter Pin .076 dia. .5 long
B16			F4	80100176	Pin Self Clinching .250 x 3/4
B17			F5		
			F6	80050375	Pin Belt Tensioner Idler PVT
C1	80070156	Washer, Lock .261 ID	F7	80090336	E Ring Ext 1/4 #E-25
C2	80070139	Washer, Nylon .189 x .375 x .031	F8	80190380	Standoff Richo RLCBSR401SR
C3	90070122	Washer, .260 ID x .687 OD Flat	F9	80100177	Pin Self Clinch .250 x 1
C4	90150308	Washer, Hex #29-34 (T-Handle)	F10	80100175	Standoff, Clinch 8 - 32 5/8
C5	80070152	Washer, .191 ID x .5 OD x .054T Flat	F11	80181813	Nylon Spacer #8 ID, .312 OD, .5
C6	48909130	Washer, SS Flat #10	F12	80090249	Tinnerman Clip, U-Nut 1/4 - 20
C7	80070144	Washer, Flat 18 Gauge 17/64ID x 5/8OD	F13	80090273	Clip, Canoe 254-12020-99
C8	80070165	Washer, Flat 3/8 Steel	F14	80140197	Belt Tensioner Spring
C9	80070146	Washer, Flat 15/32ID X 59/64OD	F15	80190489	Standoff, Circuit Board
C10			F16	80090361	Clip, Canoe Natural (Lens)
C11			F17	90090188	Clip, Retainer Compressor
C12			F18	80530071	Spacer, 1/4ID X .275
C13			F19	80090299	Clip, Pine Tree Rivet
C14			F20		
			F21		
D1	80020249	Bolt, Carriage 1/4 - 20 x 2.5	F22		
D2	80020251	Bolt, Carriage 10-24 x .82			
D3	CR0004761	Bolt, 1/4-20 X 1.75	H1	AP420040	Plug, Dome Black .50
D4	80030542	Bolt, Carriage 1/4-20 X 2	H2	90190201	Wire Tie, 7 1/2"
D5	80040071	Bolt, Hex 1/4-20 X 1.25	H3	90190100	Wire Tie, 4"
D6	80020256	Bolt, Carriage 10-24 X .82	H4	W223	Wire Tie, Twist
D7			H5	80090251	Clamp, Nylon 5/16" White
D8			H6	90190189	Clamp P 1" Heyco 3390
D9			H7	CR0004146	Clamp, .250 Push Fin Base
D10			H8		
D11			H9		
D12			H10		
D13			H11		
D14					
D15					

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