Manual Manual







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SAFETY SECTION

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A COMMITMENT TO SAFETY

SandenVendo America is committed to safety in every aspect of our product design. SandenVendo America is committed to alerting every user to the possible dangers involved in improper handling or maintenance of our equipment. The servicing of any electrical or mechanical device involves potential hazards, both to those servicing the equipment and to users of the equipment. These hazards can arise because of improper maintenance techniques. The purpose of this manual is to alert everyone servicing SandenVendo America equipment of potentially hazardous areas, and to provide basic safety guidelines for proper maintenance.

This manual contains various warnings that should be carefully read to minimize the risk of personal injury to service personnel. This manual also contains service information to insure that proper methods are followed to avoid damaging the vendor or making it unsafe. It is also important to understand these warnings are not exhaustive. SandenVendo America could not possibly know, evaluate, or advise of all of the conceivable ways in which service might be done. Nor can SandenVendo America predict all of the possible hazardous results. The safety precautions outlined in this manual provide the basis for an effective safety program. Use these precautions, along with the service manual, when installing or servicing the vendor.

We strongly recommend a similar commitment to safety by every servicing organization. Only properly-trained personnel should have access to the interior of the machine. This will minimize the potential hazards that are inherent in electrical and mechanical devices. SandenVendo America has no control over the machine once it leaves the premises. It is the owner or lessor's responsibility to maintain the vendor in a safe condition. See Section I of this manual for proper installation procedures and refer to the appropriate service manual for recommended maintenance procedures. If you have any questions, please contact the Technical Services Department of the SandenVendo America office nearest you.

SAFETY RULES

- Place and store unit inside. Outdoor use or storage voids warranty.
- Read the Safety Manual before installation or service.
- Test for proper grounding before installing to reduce the risk of electrical shock and fire.
- Disconnect power cord from wall outlet or air dam before servicing or clearing product iams. The vending mechanism can trap and pinch hands.
- Use only fully-trained service technicians for Power-On servicing.
- Remove any product prior to moving a vendor.
- Use adequate equipment when moving a vendor.
- Always wear eye protection, and protect your hands, face, and body when working near the refrigeration system.
- Use only authorized replacement parts.
- Be aware of inherent dangers in rocking or tipping a vending machine.

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SECTION I: VENDOR INSTALLATION

- A. Vendors are large, bulky machines of significant size and weight. Improper handling can result in injury. When moving a vendor, carefully plan the route to be taken and the people and equipment required to accomplish the task safely.
- B. Remove all tape, shipping sealant, and Styrofoam from the vendor. Loosen any shipping devices used to secure interior parts during shipping. Remove the wooden shipping base attached to the vendor base by the vendor leveling screws. Make certain the leveling screws are in place and functional.
- C. Position the vendor three to four inches (7.6 cm to 10.2 cm) from a well-constructed wall (of a building or otherwise) on a flat, smooth surface.
 - **IMPORTANT**: The vendor requires three inches (7.6 cm) of air space from the wall to ensure proper air circulation to cool the refrigeration unit.
- D. Adjust the leveling screws to compensate for any irregularities on the floor surface. Ideally, no adjustment will be necessary and the leveling legs will be flush with the bottom of the vendor. A spirit level is a useful aid to level the vendor. When the outer door is open, it will remain stationary if the vendor is properly leveled. Vendors must be level to ensure proper operation and to maintain stability characteristics. Do not add legs to the vendor. The leveling legs shall not raise the vendor more than 1 1/8 inch above the ground.
- E. Check the manufacturer's nameplate on the left or right side of the vendor's cabinet to verify the main power supply requirements of the vendor. Be sure the main power supply matches the requirements of the vendor. To ensure safe operation, plug the vendor only into a properly grounded outlet.
 DO NOT USE EXTENSION CORDS.
- F. Recommended voltage specs = 115V ± 10%
- G. Dedicated 15A service required for 1 machine.

NOTE: Any power supply variance more than <u>+</u> 10% may cause the vendor to malfunction

- Power outlets must be properly grounded.
- Power outlets must be properly polarized, where applicable.

Test the outlets using the following information. (Refer to Figure 1 on Page S-4.)

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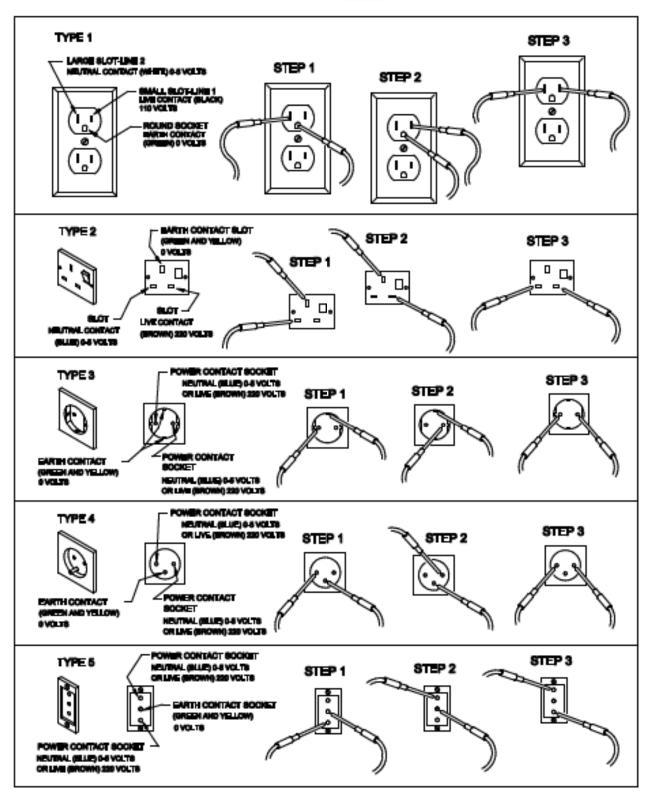


FIGURE 1

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SECTION I: VENDOR INSTALLATION (CONTINUED)

For Type 1 and Type 2 outlets, test for Grounding and Polarization as follows:

- With a test device (volt meter or test light), connect one probe to the receptacle's neutral contact and the other to the live contact. The test device should show a reaction.
- Connect one probe to the receptacle's earth contact and the other to the live contact. The test device should show a reaction.

For Type 3 through Type 5 outlets, test for Grounding as follows:

- With a test device (volt meter or test light), determine which of the receptacle's power contacts is the live contact.
 - Connect one probe to the receptacle's earth contact.
 - B. Connect the second probe to the left (or upper) power contact. If a reaction occurs, this is the live power contact. If a reaction does not occur, move the second probe to the right (or lower) contact. A reaction should occur, indicating that this is the live power contact.
- Connect one probe to the receptacle's live power contact (as determined in step

 Connect the second probe to the other power contact (neutral). The test
 device should show a reaction.

IF THE ABOVE CONDITIONS ARE NOT MET FOR THE GIVEN OUTLET TYPE, CONTACT A LICENSED ELECTRICIAN AND HAVE THE NECESSARY CORRECTIONS MADE.

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H. Door Support (Figure 2)

The door support is to ensure that the outer door closes squarely to the cabinet.

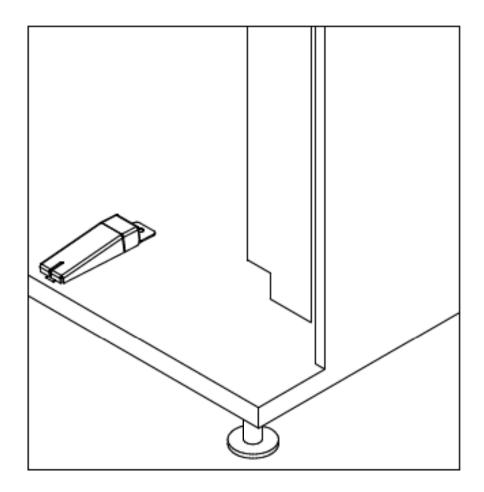


FIGURE 2

NOTE: Refer to the appropriate parts and service manual for detailed instructions, operating principles, and recommended maintenance intervals and procedures.

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SECTION II: ELECTRICAL HAZARDS

GENERAL

SandenVendo America, Inc. vending machines are provided with the appropriate power supply setting for your area. Some models are equipped with step-down transformers, as required. This enables the vending machine to operate on different main voltages. Refer to Section I. E. for information to determine the main power requirements. Refer to the appropriate service manual for details of step-down transformer operations.

The power sources just mentioned are standard for both household and commercial lighting and appliances. However, careless or improper handling of electrical circuits can result in injury or death. Anyone installing, repairing, loading, opening, or otherwise servicing a vending machine should be alerted to this point. Apply all of the normal precautions observed in handling electrical circuits, such as:

- Refrigeration servicing to be performed by qualified personnel only.
- Unplug the vendor or move power switch to off position before servicing or clearing product jams.
- Replace electrical cords if there is any evidence of fraying or other damage.
- Keep all protective covers and ground wires in place.
- Plug equipment into outlets that are properly grounded and polarized (where applicable), and protected with fuses or circuit breakers.
- All electrical connections must be dry and free of moisture before applying power.

A. Grounding Systems

SandenVendo America, Inc. vending machines are provided with the appropriate service cord for the power supply in your area. The service cord will connect to the matching electrical outlet. Always ensure that the outlet to be used is properly grounded before plugging in the vendor. (See pages S-3 through S-5.)



The electrical grounding system also includes the bonding of all metal components within the vendor. This involves a system of bonding wires identified by green or green and yellow marking. The system uses serrated head screws, lock washers, and star washers to ensure the electrical connection between parts. Maintenance of vending equipment may involve disassembly. Include the above items when reassembling, even if the vending machine may appear to function normally without them. Omitting any of these items can compromise a link in the grounding system. See the appropriate service manual or kit instructions for components and assembly instructions.

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SECTION II: ELECTRICAL HAZARDS (CONTINUED)

B. Servicing with "Power Off"

For maximum safety, unplug the service cord from the wall outlet before opening the vendor door. This will remove power from the equipment and avoid electrical and mechanical hazards. Service personnel should remain aware of possible hazards from hot components even though electrical power is off. See the appropriate sections of this manual for further information.

C. Servicing with "Power On"

Some service situations may require access with the power on. Power on servicing should be performed only by fully-qualified service technicians. Particular caution is required in servicing assemblies that combine electrical power and mechanical movement. Sudden movement (to escape mechanical action) can result in contact with live circuits and vice versa. It is therefore doubly important to maintain maximum clearances from both moving parts and live circuits when servicing.



"POWER ON" SERVICING SHOULD BE ACCOMPLISHED ONLY BY FULLY-TRAINED PERSONNEL. SUCH SERVICE BY UNQUALIFIED INDIVIDUALS CAN BE DANGEROUS.

Power to lighting and refrigeration system is shut off automatically by the electronic controller when the outer door is opened. However, it is strongly recommended that servicing the lighting system or the refrigeration system only be performed after unplugging the vendor power cord, either at the wall outlet, or at the service cord power outlet, located at the front of the power distribution panel. (See Figure 3 on facing page.)

NOTE: For power-on servicing of the vendor's lighting system, turn lighting power on by accessing the Lights test function of the electronic controller.

The VUE vendor features a circuit interrupting style ballast. If the lamp is replaced, you must cycle the power to the machine to bring the light back on.

For power-on servicing of the vendor's refrigeration system, turn refrigeration power on by accessing the Compressor test function of the electronic controller.

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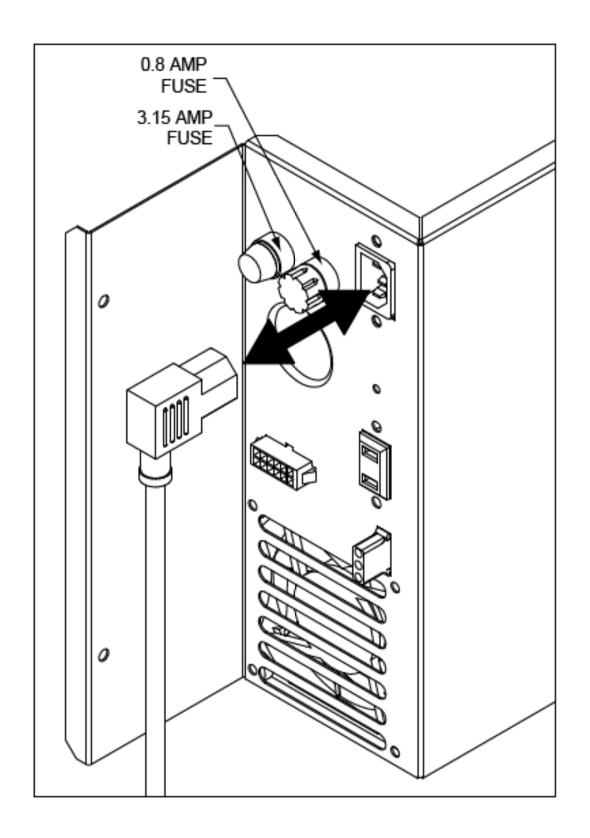


FIGURE 3

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SECTION III: MECHANICAL HAZARDS

A. Servicing of Moving Parts and Assemblies

When servicing assemblies involving moving parts, use extreme caution!! Keep fingers, hands, loose clothing, hair, tools, or any foreign material clear of entrapment.

As noted before under the electrical hazards section, Power On servicing should only be performed by qualified personnel. Refer to and heed the warnings noted in the electrical hazards section. These warnings refer to the potential hazards associated with electrical power and moving parts. Always maintain maximum clearances from electrical and moving parts.

Always install protective covers and guards when reassembling equipment.



WARNING



THIS VENDING MACHINE INCLUDES MECHANICAL EQUIPMENT WHICH CAN BE HAZARDOUS IF IMPROPERLY HANDLED OR SERVICED. USE CAUTION AND CONSULT THE SAFETY MANUAL AND THE SERVICE MANUAL FOR ADDITIONAL SAFETY INFORMATION.





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SECTION IV: REFRIGERATION HAZARDS

GENERAL

Refrigeration systems involve both electrical power and mechanical action. These systems may present any of the potential dangers shown in the sections on electrical and mechanical hazards contained in this manual. See Sections II and III for further information.

A. Compressed Refrigerant

Refrigeration systems involve the compression and evaporation of gases. The pressures contained represent a potential hazard if suddenly released in confined areas. Caution is required when performing maintenance tests or repairs. All testing of sealed refrigeration systems must be done by trained personnel who are familiar with the systems and pressures involved.

B. Physical Protection

The accidental release of refrigerant gases can result in physical injuries. Always wear protective glasses and protect your hands, face, and body when working near the refrigeration system.



ALWAYS WEAR EYE PROTECTION AND PROTECT YOUR HANDS, FACE, AND BODY WHEN WORKING NEAR THE REFRIGERATION SYSTEM

SECTION V: TEMPERATURE HAZARDS

GENERAL

Maintenance personnel should be alerted to the potential hazards from hot metal surfaces. High temperatures may be present throughout the refrigeration system even though electrical power has been removed.

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SECTION VI: SUBSTITUTIONS AND MODIFICATIONS

GENERAL

Unauthorized changes or the substitution of unauthorized parts can compromise the equipment designs. This can result in unsafe conditions for either the service personnel or the equipment users. Always refer to the appropriate parts and service manual for replacement parts and maintenance instructions. If questions arise, contact the Technical Services Department of the SandenVendo America, Inc. office in your area.

When servicing the vending machine, always reassemble all components to their original location and position. Maintain the correct routing for tubing, electrical wiring, etc.. Replace all clamps, brackets, and guides to their original locations. Replace all tubing, sleeving, insulating material, and protective covers to their original condition.



WARNING



VENDO EQUIPMENT HAS BEEN PROVIDED WITH APPROPRIATE PROTECTIVE DEVICES TO PROTECT AGAINST THE POSSIBILITY OF OVERHEATING AND FIRE AS A RESULT OF EQUIPMENT OR COMPONENT FAILURES. SUBSTITUTION, MODIFICATION, OR BYPASSING OF SUCH PROTECTIVE DEVICES CAN CREATE DANGEROUS CONDITIONS. PROTECTIVE CIRCUITS SHOULD NEVER BE BYPASSED, AND FAILED PROTECTIVE DEVICES MUST BE REPLACED ONLY WITH FACTORY-AUTHORIZED PARTS.

A. Service Cord Replacement

SandenVendo America, Inc. vending machines are furnished with unique power supply cords. If replacement becomes necessary, consult the appropriate parts and service manual and order the correct replacement cord for the model of vending machine in question. Do not use substitute replacement cords. Only authorized service personnel with appropriate training should replace the vending machine service cord. If a question should arise concerning which service cord to order, contact the Technical Services Department of the SandenVendo America, Inc. office in your area.

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SECTION VI: SUBSTITUTIONS AND MODIFICATIONS (CONTINUED)



THIS APPLIANCE MUST BE EARTHED. IMPORTANT!

The wires in the main leads are colored in accordance with the following code:

 110v/120v
 220v/240v

 Green
 Green and Yellow....... Earth

 White
 Blue...... Neutral

 Black
 Brown..... Live

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SECTION VII: CONSUMER SAFETY WARNING



WARNING



VENDOR CAN BE OVERTURNED IF SUFFICIENT FORCE IS APPLIED AND MAY RESULT IN SERIOUS INJURY OR DEATH.

GENERAL

There have been incidents, including fatalities, when vending machines have been vandalized by being pulled over in an attempt to obtain free product or money.

To warn of the danger involved in tipping, shaking, or rocking the vending machine, a decal has been designed to be affixed to vending machines. SandenVendo America will supply sufficient decals to be placed on all machines, on request. If you have any questions, contact the Technical Services Department of the SandenVendo America office in your area.

THE FOLLOWING DECAL SHOULD BE PLACED IN A POSITION ON THE VENDOR CONTROL PANEL AT EYE LEVEL



Vending machine will not dispense free product.

ENGLISH 1

and cause serious

injury or death.

389611



Ne jamais secouer
ou incliner.
Le distributeur peut
se renverser et causer
des blessures graves
ou la morte.
Cette machine ne
distribue pas de
produits gratuitement.

389611=1



FRENCH SPANISH

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SECTION VIII: PARTS, SALES, & SERVICE CENTERS OF THE SANDEN COMPANY

AREA	ADDRESS	PHONE NUMBERS
United States, Canada	SandenVendo America, Inc. 10710 Sanden Drive Dallas, TX 75238-1335 U.S.A.	Tel: (800) 344-7216 ext. 3368 Fax: (800) 541-5684
Japan	Sanden International Corporation 31-7 Taito 1-Chome Taito-ku Tokyo 110, Japan	Tel: (81) 3-3835-1321 Fax: (81) 3-3833-7096
Europe, Mid-East Africa, Mid-Asia	Vendo GMBH Spangerstr. 22, P.O. Box 130940 40599 Dusseldorf Germany	Tel: (49) 211-74-039-0 Fax: (49) 211-7488541
Australia, New Zealand	Sanden International Pty. Ltd. 54 Allingham St., Condell Park N.S.W. 2200 Australia	Tel: 61-2-9791-0999 Fax: 61-2-9791-9029
Singapore, Hong Kong, Indonesia, Phillippines, India	Sanden International (Singapore) Pte., Ltd. Sanden House, 25, Ang Mo Kio St. 65 Singapore 569062 The Republic of Singapore	Tel: 65-482-5500 Fax: 65-482-1697
Taiwan	Sanden International Taiwan Corp. No, 21-6, Sec 1 Tun Hwa S. Rd., Taipei, Taiwan Taiwan, ROC	Tel: 886-2-570-6106 Fax: 886-2-577-1959
Belgium	N.V. Vendo Benelux, S.A. Industrial Research Park N.O.H. 13 Font St. Landry 1120 Brussels Belgium	Tel: 32-2-268-2595 Fax: 32-2-268-2862
England	Vendo UK Ltd. Vendo House Kingsclere Road Basingstoke, Hants RG21, 5GU Great Britain	Tel: 44-1256-479309 Fax: 44-1256-844469
Italy	Vendo Italy S.p.A. Casella Postale 9 1-15033 Casale Monferrato Italy	Tel: 39-142-335111 Fax: 39-142-5623-48
Spain	Vendo Iberia, S.A. C/ Sant Ferran No. 92 Poligono Industrial la Almeda, Sector P-1 08940 Cornella, (Barcelona), Spain	Tel: 343-474-1555 Fax: 343-474-1842

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PARTS, SALES, & SERVICE CENTERS OF THE SANDEN COMPANY FOR LATIN AMERICA

AREA	ADDRESS	PHONE NUMBERS
Mexico	Vendo de Mexico Carreta Mexico - Tequisquiapan Km 3.2 San Juan del Rio, Queretaro C.P. 76800	Tel: (52) 427 2718096 Fax: (52) 427 2718077
Mexico	IMI Cornelius de Mexico, S.A. de C.V. Manual Dublan No. 35 Col. Tacubaya, Deleg. Miguel Hidalgo C.P. 11870 Mexico	Tel: (52 55) 5272-7904 Fax: (52 55) 5273-5949
Central America	SandenVendo America, Inc. 10710 Sanden Drive Dallas, TX 75238-1335 U.S.A.	Tel: (214) 765-9066 Fax: (214) 221-7010
South America	SandenVendo America, Inc. 10710 Sanden Drive Dallas, TX 75238-1335 U.S.A.	Tel: (214) 765-9066 Fax: (214) 221-7010

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GENERAL INFORMATION SECTION



This manual contains programming, operation, and complete parts and electrical wiring diagrams.

The controller is a microprocessor which will permit pricing per selection from 0.00 to 99.99. This machine also has space-to-sales programming as well as energy savings modes.

GFV Model Numbers	240	320
Dimensions H x W x D	72" x 34" x 34.5"	72" x 41.5" x 34.5"
Shipping Weight	760 lbs	800 lbs
Shelves	5-7	5-7
Trays per shelf	3	4
Facings / shelf	6	8
Total # of facings:		
5 shelf	30	40
7 shelf	42	56
Total capacity:		
20 oz bottle	240	320
12 oz can	378	504

Dimensions and shipping weight will vary slightly due to manufacturing tolerances, shipping boards and whether or not coinage is installed.





INITIAL SET-UP

A. UNPACKING

Remove all plastic film, cardboard and tape from the outside of the vendor. Loosen any shipping devices used to secure interior parts during shipment (backspacer, shims or spacers).

To remove shipping boards from base, raise vendor on a well-stabilized lifting device. Remove the leveling bolts which hold the boards in place and remove the boards. Replace bolts to equal heights in the threaded holes. Another method to remove shipping boards is to split the boards apart. Using a pinch bar or a heavy screwdriver and hammer, insert tool into the slots and force the boards apart. The leveling legs shall not raise the vendor more than 1 1/8 inch above the ground.

B. POSITIONING

IMPORTANT: PLACE THE VENDOR IN DESIRED LOCATION AT LEAST THREE INCHES (7.6CM) AWAY FROM ANY REAR OBSTRUCTION. This is for proper air flow through the refrigeration compartment. The refrigeration system requires rear to front air circulation for proper operation.

C. POWER SUPPLY CONNECTION

CAUTION: <u>DO NOT USE AN EXTENSION CORD!</u>

The vendor's power requirements will vary depending upon the country it was purchased for. To verify the power requirements of the vendor, check the serial plate located on the hinged side of the outer door. The power requirements are listed on the serial plate.

To insure safe operation of the vendor, the vendor's power supply must be a properly grounded and polarized outlet. Before plugging the vendor into the outlet, test the outlet to confirm it will meet the vendor's power requirements. If the power supply of the outlet is different from the power requirements of the vendor, a transformer may be necessary.

If the power requirements are not properly met, contact a licensed electrician and have the necessary correction made.

Should you require additional information, contact the Technical Services Department of the SandenVendo America, Inc. office in your area.



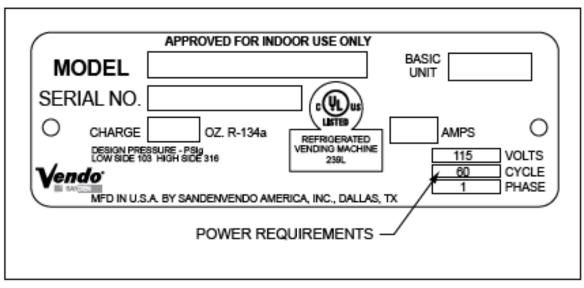


FIGURE 1

<u>NOTE:</u> The **Model** number of the vending machine is located on the top, left hand corner of the serial plate. A typical model number could read "320GFT001". The 320 is the model number, GFT represents the product line of the vendor, and the remaining digits tell what options are included.



TRAY LABEL INSTALLATION

Insert column labels as shown in Figure 2. The column number is a two digit number where the first digit is a shelf number and the second number is called out a column on that shelf. Shelves are numbered starting with "1" from the top shelf. Columns are numbered starting from "0" on the left most column. So the leftmost column on the top shelf is "10" and toward the right, the column number is increased by the increment of 1 which is called out "11", "12", and so on. The next shelf down leftmost column is numbered "20" and the shelf under that starts with number "30" and so on.

NOTE: A shelf that does not have trays on it should not be numbered.

Insert price labels in the area indicated. Product I.D. labels can be inserted in each product pusher as indicated.

BASIC LOAD SET-UP

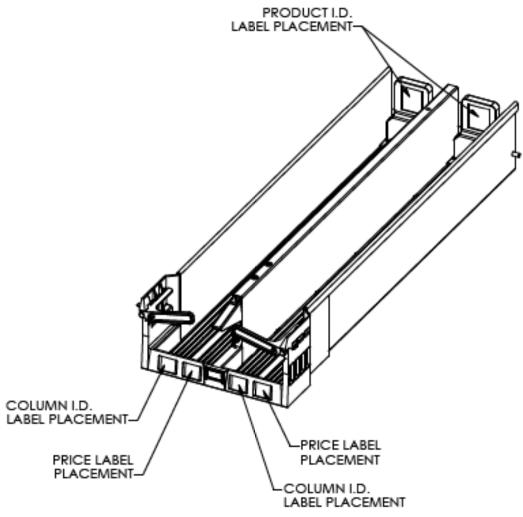


FIGURE 2

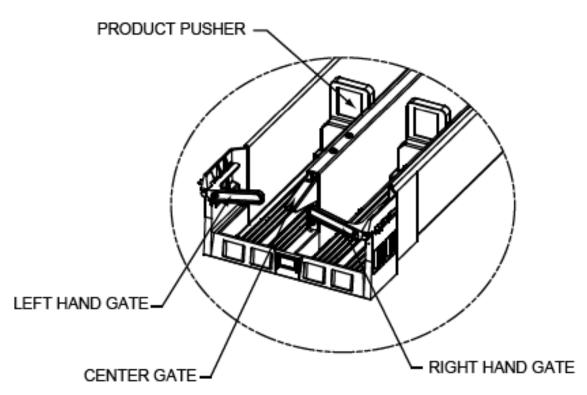


LOADING INSTRUCTIONS

- Withdraw the tray from the cabinet by lifting slightly before pulling toward you. The tray will tilt down slightly to ease loading. Pull forward until the tray stop is reached.
- Push the product pusher to the rear of the tray. The product pusher should lock into place in this position. Add new product to the tray. When the tray is pushed back onto the shelf, the product pusher will automatically unlock, and move to the back of the product queue. Ensure the tray is fully latched into position on the shelf.

It is suggested that one tray is loaded at a time, to maintain stability.





TRAY ASSEMBLY DETAIL

FIGURE 3



VUE VENDOR PART DESCRIPTION (CONTINUED)

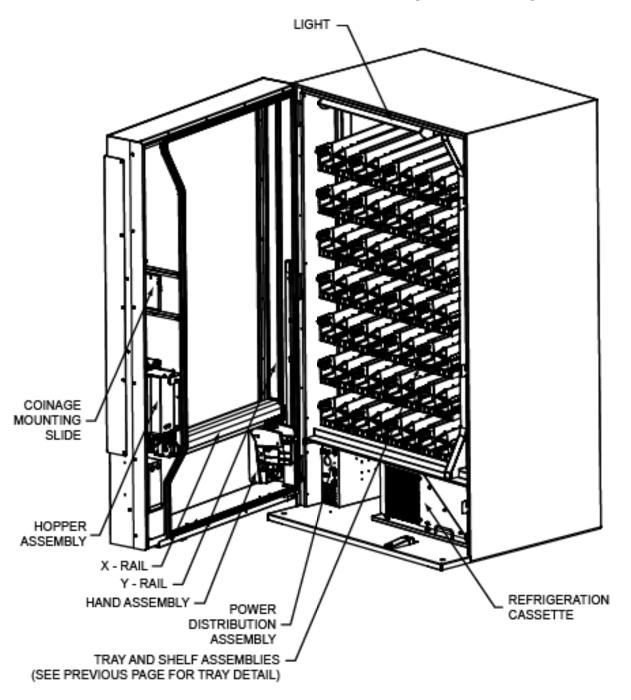


FIGURE 4



NOTES





CLEANING INFORMATION SECTION



CARE AND CLEANING

DO NOT USE WATER JET FOR CLEANING.

AVOID USING WATER OR ANY OTHER LIQUIDS NEAR ELECTRONIC COMPONENTS

A. GENERAL PROCEDURE (painted metal areas)

Wash the vendor with soap and water. The exterior may be waxed with any good automobile wax.

B. FRESH PAINT SPLASHES, GREASE, GLAZING COMPOUND REMOVAL Before drying, these elements may be removed by rubbing lightly with grade "A" Naptha (or equivalent grade solvent). After removal, use general cleaning procedure (listed above in A).

C. LABELS AND STICKER REMOVAL

Use any specialized label removal liquid. When the label material does not allow penetration of solvent (such as vinyl), the application of heat (ie – hot air gun) will soften the adhesive and promote removal. **CAUTION:** Excessive heat can cause surface damage. After the label is removed, use the general cleaning procedure (listed above in A).

D. SCRATCH REMOVAL

Remove or minimize hairline scratches and minor abrasions in painted surfaces by using any good quality automobile polish. Test the polish before using.

E. GLASS

Clean the inside and outside of the glass using a standard glass cleaner and a non abrasive cloth. Do not use an abrasive cloth or cleaner.

F. REFRIGERATION AREA

The condenser and evaporator must be kept clean for efficient operation. Be sure all vanes and tubing are clean and clear of obstruction; this allows free passage of air. Clean with a brush, a vacuum cleaner or compressed air, using extreme caution not to bend the condenser fins. Also not these fin edges can be sharp, so exercise caution when brushing or wiping fins. Keep cabinet drain open; clean as necessary.



G. PRODUCT FLAP, HOPPER, & OTHER INTERIOR SURFACES THAT CONTACT PACKAGED PRODUCT

Wash the surfaces with a mild food safe soap (i.e. Palmolive Liquid Dish Soap) & water. Rinse with plain water to remove any soap residue.

Recommended Cleaning Schedule		
Vendor Area	Frequency	
Product Flap	Monthly and when spills occur	
Hopper/Delivery Port	Weekly and when spills occur	
Exterior Cabinet/Door	Every 6 monthes or as needed	
Glass	As needed	
Cabinet Interior	Every 6 monthes or as needed	
Door Interior	Every 6 monthes or as needed	
Condenser	Every 3 monthes or as needed	
Evaporator	As required	
Trays/Slided	Every 6 months and when spills occur	



NOTES





VEC 15 PROGRAMMING SECTION



VEC 15 PROGRAMMING OPERATION

NOTE: Some units may contain a european font display, in which case the "" symbol will be replaced by the "B" symbol. Example: 72°F will be 72 BF.

The VEC 15.1 Controller uses a 4-button programming system:

Programming Buttons: #1 – Exit/ Home

#2-Increase/Advance

#3 – Decrease/ Backup

#4-Enter/Save

1	2	3
4	5	6
7	8	9
CLR	0	ENT

DISPLAY KEYPAD

To access Mode functions, open the door. Locate the Mode Button (Page D-4) on the Main Control Board and press until Diagnostics appears. Use selection button 2 or 3 to navigate through the modes.

The Modes are as follows:

Diagnostics

Coin Payout

Tube Fill

Test Mode

Calibration

Cash Data

Sales Data

Discount Counter*

Free Counter*

Set Price

Configuration

Door Closed Password

Set Language

Set Clock **

Lighting **

Refrigeration ***



Sales Block 1-8 ** Discount ** Override **** Custom Message Return

- * For the Discount Counter and/ or Free Vend Counter to work, the option must be turned on and Set Clock Function must be activated and set. An override switch is required to activate the counters.
- ** These modes will only appear when the Timing Features in Configuration is turned On.
- *** Limited options appear in this mode depending on whether the Timing Features in Configuration is On/Off.
- **** A secondary 'kit' is required for this option.

Note: Items that are in quotes, for example: "X Motor", are what is displayed on the 20 character display:

Diagnostics:

Press Button 4 to enter Diagnostics Mode. If no errors have occurred, the display will read "Error None". If an error code displays, enter the code using Button 4. Press Button 2 to advance through the 'detailed summary' of the individual error codes. To clear the errors, press and hold Button 4. The display will read "Error None". To exit the Diagnostics Mode, press Button 1.

Coin Payout:

Coin Payout Mode allows the operator to 'test' for proper operation of the changer tubes.

- Enter on Button 4.
- Advance on Button 2 to choose denomination.
- Enter on Button 4 to dispense denomination displayed.
- 4. Exit on Button 1.

Tube Fill:

The changer coin tubes can be filled via the external coin insert plate or the acceptor part of the changer. This mode enables the Control Board to keep an accurate count of the coins.

- Enter on Button 4.
- Insert coins through either the coin insert slot or acceptor part of the changer. The controller will display the 'value' and quantity of coins in the changer tubes.



Test Mode:

Test Mode Vending:

Up to five products can be vended in this mode.

- Press Button 4 Display will read 'Close Door to Vend'.
- Close outer door.
- Display will read 'Please make a selection'.
- Product should dispense.

- Enter on Button 4 Testing in Progress followed by Hopper Flap open/ wait/ close will display while performing these actions.
- Exit on Button 1

Test Mode Test Hopper Bucket:

- Enter on Button 4 'Testing in Progress' followed by 'Hopper Bucket open/ Hopper Bucket close' will display while performing these actions.
- Exit on Button 1.

Test Mode Test Vend Detection:

Enter on Button 4 – Display will read 'Testing in Progress' followed by:

STANDARD FONT DISPLAY

● • - there is nothing blocking the optics, or ○○○ - optics are blocked.

EUROPEAN FONT DISPLAY

 $\sum \sum -$ there is nothing blocking the optics, or $\sigma \sigma \sigma$ – optics are blocked.

Hopper Bucket will open to allow blocking/ unblocking of the optics.

Exit on Button 1

Test Mode Test Motors:

After completion of work in Test Motors, please ensure that X, Y, Z and Clamp Motors have returned to the 'Home' position before closing the outer door.

Test Motors X Motor:

- Enter on Button 4 'Pls wait... Entering Test Motors Mode', followed by 'Test Motors X Motor' – Rail should move to the top of the vendor.
- Enter on Button 4 X Motor Go Home.
- Enter on Button 4 'Testing in Progress' Hand should move to the Lock side of the door.
- 4. Exit on Button 1.



- Advance on Button 2 'Go Opposite of Home'.
- Enter on Button 4 'Testing in Progress' Hand should move to hinge side of the door.
- Press Button 1 twice to exit Test Motors X Motor.

Test Motors Y Motor:

- Advance on Button 2 Test Motors Y Motor
- Enter on Button 4 'Y Motor Go Home'
- Enter on Button 4 'Testing in Progress' Rail should move to the bottom of the door.
- Exit on Button 1
- Advance on Button 2 'Y Motor Go Opposite of Home'
- 6. Enter on Button 4 'Testing in Progress' Rail should move to top of door
- Exit on Button 1 twice 'Test Motors'
 Y Motor'

Test Motors Z Motor:

- Advance on Button 2 'Test Motors Z Motor'
- Enter on Button 4 Calibration Z Pos Z Cycle
- Enter on Button 4 Testing in Progress Hand Clamp moves towards the shelves, pauses momentarily, then retracts.
- Exit on Button 1 twice Test Motors Z Motor
- *** Note Do not apply pressure to the 'Arm' as it could potentially jam. Power down vendor, wait 10 seconds, power on. Vendor should 'Home' any out of sync parts on the arm.

Test Motors Clamp Motor:

- Enter on Button 4 'Clamp Motor Clamp Open'
- Enter again on Button 4 "Testing in Progress" the Fingers on the Hand should open
- *** The Hand will not open if it is already open***
- Exit on Button 1
- Advance on Button 2 'Clamp Motor Clamp Close'
- *** The Hand will not close if it is already closed***
- Enter on Button 4 'Testing in Progress' The Fingers on the Hand Clamp should close
- Press Button 1 twice to exit

Test Motor Get X Y Z Positions:

This is not applicable unless there is a problem. Please refer to the detailed instructions in the 'Trouble Shooting Section' of the Vue 30/40 Manual.



Note - When you are in any Test Motor operation where the 'HAND' is Extended be sure to EXIT MODE on Button 1 before closing the Door

Test Mode Sensor Status:

Note: If the sensors are being replaced, press '4' to refresh the sensor status.

Enter on Button 4 - Sensor Status display as follow:

STANDARD FONT DISPLAY

Inactive, or ○ — Active

EUROPEAN FONT DISPLAY

 Σ – Inactive, or σ – Active

Х	•	OR	0	-	V Users Conser leasted on 7 Univides					
Х	Σ	OR	σ		(Home Sensor located on Z Housing					
Х	•	OR	0		Here Serve leasted on the V Beil					
Х	Σ	OR	σ	-	Y Home Sensor located on the X Rail					
Х	•	OR	0		7 Harris Carried and the DDC					
Х	Σ	OR	σ	-	Z Home Sensor located on the PDC					
Х	•	OR	0		Hand Claren Senser leasted on the Hand					
Х	Σ	OR	σ	-	Hand Clamp Sensor located on the Hand					
Х	•	OR	0		Format Locking Out on located on the ten right corner of the Hand					
Х	Σ	OR	σ	-	Forward Looking Optics located on the top right corner of the Hand.					

Note: If any 'Reflectors' are removed/ fall off of the Hinged or Lock Side of the vendor and it is a 5 shelf unit – it will fail the Discovery. In 'Discovery' they must be on all outside shelves. The middle shelves do not matter.

Test Mode Display:

- Enter on Button 4
- The 20 'boxes of pixels' on each line should illuminate
- 3. Exit on Button 1

Test Mode Switches:

- 1. Enter on Button 4
- Activation of individual selection buttons (1 12) should display
- To Exit, press and hold Button 1 for 5 seconds or until Display returns to 'Test Mode Switches'

Test Mode Relays:

This Mode allows you to test the following relays:



- Compressor
- Fluorescent Light
- Heater
- 4. Fan
- Enter on Button 1 Compressor 'Off'
- Enter again on Button 4 'Off' flashes
- Advance on Button 2 'On' flashes
- 4. Enter on Button 4 Compressor should turn 'on' if relay is functional
- Exit on Button 1 Compressor will default back to 'Off'

Repeat steps 1 through 5 for desired relay. To exit 'Test Mode' and return to the Main Menu, press Button 1 three times.

Calibration:

Calibration PDC Software Maintenance:

The PDC Maintenance Position Mode should only be accessed if a chip needs to be replaced in the Hand. Please refer to the 'Trouble Shooting Section' of the Vue 30/40 Manual.

- Enter on Button 4 Maintenance 'Off'
- Press Button 4 'Off' flashes
- Advance on Button 2 'On' flashes
- Save on Button 4 Hand should extend for access to the Control Board.

*** After completion of work in 'Calibration PDC Software Maintenance', ensure that X, Y, Z and Clamp Motors have returned to the 'Home' position - Power down vendor, wait 1 minute then Power on vendor BEFORE closing the outer door. It will perform a Recovery/Discovery automatically. ***

Calibration Discovery:

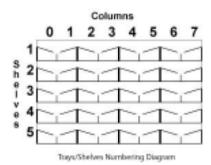
Please refer to the Levels and explanations listed below:

- Level 0 We are not doing a 'Discovery no motion. No Discovery is required
- Level 1 Check Physical Shelves against the stored data. If shelf is in stored data, is there a reflector that corresponds to it
- Level 2 Sets vendor for actual physical locations for trays and shelves
- Enter on Button 4 Discovery
- 2. Enter again on Button 4 'Discovery Level 0'
- Enter on Button 4 'Level 0' flashes
- Advance on Button 2 to desired level
- Press Button 4 to save
- If Level 1 or 2 is chosen, the display will read 'Please close the door' followed by 'Press 1 – Accept



- Press Button 1 to start the Discovery process
- Vendor will return to 'Sales Mode' when Discovery has been completed.

* Note: Calibration Menus are Password protected. Please contact Technical Service: 1-800-344-7216 for assistance in changing vendor configuration.



Calibration Discovery Correction:

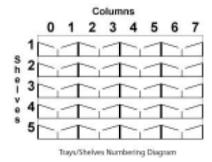
Allows the user to alter vending positions in X and Y for the entire vendor, a particular shelf or a particular tray set. This mode is used in Trouble Shooting only.

Calibration Test Vend Pos:

Allows the vendor to do a self-test and change vending positions if it encounters a problem with vending. It can test the entire vendor, a particular shelf or a particular tray set.

- 1. Enter on Button 4 Test Vend Pos Dsbl will display Dsbl is flashing
- Advance on Button 2 to choose either All, Tray or ShLf
- Press Button 4 to 'save' setting Please close the Door followed by: Press 1 – Accept, 8 – Cancel will display
- 4. Press Button 1 to begin the test vend process
- Refer to 'Calibration Get Failures' to view the results of this test.

For Shelves and Columns use this diagram:



P-8



For Tray Numbers use this diagram:



Calibration Test Vend w/pdt:

Allows the vendor to do a self- test of all positions including running the Hopper Flap and Hopper Bucket.

- Enter on Button 4 Calibration Test Vend w/pdt Dsbl
- 2. Enter on Button 4 again Dsbl flashes
- Advance on Button 2 to All
- Press Button 4 to 'save' setting Display will read Please close the Door followed by Press 1 – Accept
- Press Button 1 to start the Test Vend process

Calibration Get Failures:

While self-testing, the PDC creates a log of errors it encounters. This function allows you to step through these errors. For each location on the shelf \bullet Or Σ indicates success while \circ Or σ indicates a failure.

Example: | ● ● | ● ● | ● ● | - STANDARD FONT DISPLAY

 $|\Sigma \Sigma \Sigma \Sigma \Sigma \Sigma \Sigma \Sigma| = EUROPEAN FONT DISPLAY$

- Press Button 4 to scroll to shelves to view any failures
- Press Button 1 to exit

Calibration Set # of Trays:

Allows the operator to 'choose' the number of 'Trays' in the vendor.

- Enter on Button 4 'Set # of Trays 3, 4 or 5'
- Enter on Button 4 '3, 4 or 5' is flashing
- 3. Advance on Button 2 to desired Tray Setting that matches the vendor
- 4. Press Button 4 to 'save' setting
- Press Button 1 to send the new setting to the Main Controller. Display will read Please wait then exit automatically to Calibration – Set # of Trays

*** Number of Trays MUST match the Vendor ***

Calibration Set Z pdt Position:

Allows the operator to adjust the depth that 'Z' goes into the vendor to retrieve product.

- 1. Enter on Button 4 'Set Z pdt Position'. Current position is shown
- 2. Enter on Button 4 Current position is flashing



- Advance on Button 2 to desired product position
- 4. Press Button 4 to 'save' setting
- Press Button 1 to send the new setting to the Main Controller. Display will read –
 Please wait then exit automatically to Calibration Set Z pdt Position

Cash Data:

This Mode allows you to retrieve the total Historical Cash from product purchases.

- Enter on Button 4 the non re-settable, Historical Cash Total will scroll
- Advance on Button 2 to scroll through the shelves
- 3. Enter on Button 4 to show the columns in the shelves
- 4 Press Button 1 to exit

Sales Data:

This Mode allows you to retrieve the total Historical Sales from product purchases.

- Enter on Button 4 the non re-settable, Historical Sales Total will scroll
- Advance on Button 2 to scroll through the selections
- Enter on Button 4 to show the columns in the shelves
- Press Button 1 to exit.

Discount Counter:

This Mode will only display when 'Discounts' are used. It allows access to the Sales and Cash Data for discounted vends.

- Enter on Button 4 'Cash Data'
- Enter again on Button 4 Display will read 'Cash Data Total' and display the value of all discounts towards paid sales. This total is non re-settable and begins when the 'Discount' feature is enabled.
- Advance on Button 2 to scroll through the various selections
- Press Button 1 to exit
- Advance on Button 2 'Sales Data'
- Enter on Button 4 'Sales Data Total' will display as well as the number of discounted sales. This total is non re-settable and begins when the 'Discount' feature is enabled
- Advance on Button 2 to scroll through the various selections
- Press Button 1 to exit.

Free Counter:

This Mode will only display when 'Free Vends' were made. It allows the user access to the number of 'Free Sales and Cash Data' lost.

 Enter on Button 4 – Cash Data total XX.XX, which is the value of the money lost based on the set price. This total is non re-settable and begins when the 'Free Vend Override' is enabled.



- Advance on Button 2 'Sales Data Total X', which is the total number of products dispensed. This total is non re-settable and begins when the 'Free Vend Override' is enabled.
- Press Button 1 to exit.

Clearing the Cash Data, Sales Data, Discount Counter or Free Counter:
To reset the individual selection counter, scroll to the selection number, press and hold buttons
1 and 4 for 3 seconds, 0000 will display. You can also set 'MIS Auto Reset ' to 'On' under
'Configuration'

Set Price:

This Mode allows you the option to price each selection to the same vend price, or price each shelf, tray or column. (Refer to diagram on next page)

To set all selections to a 'single price':

- Enter on Button 4 All Selections .XX will display (current vend price)
- Enter again on Button 4 .XX (current vend price) will flash
- 3. Advance on Button 2 to increase the price
- Press Button 3 to decrease the price
- Press Button 4 to save change
- Press Button 1 to exit.

To set price per shelf:

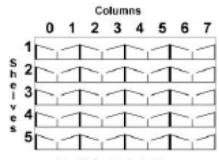
- Enter on Button 4 Set Price Shelf 1
- Enter on Button 4 again Shelf 1 All Columns displays
- Enter on Button 4 Shelf 1 All columns XX flashes
- Advance on Button 2/ decrease on Button 3 to desired price
- Press Button 4 to save change Shelf 1 All columns XX.
- Press Button 1 Set Price Shelf 1
- Advance on Button 2 Set Price Shelf 2
- Set prices following steps outlined above for the balance of shelves
- 9. Exit on Button 1 twice to return to Set Price
- ** You must price Shelf 6 & 7 although they may not be in the vendor. Otherwise a 99.95 vend price may display. **

To set price per column:

- Enter on Button 4 Shelf 1 All Columns
- Advance on Button 2 to begin pricing individual columns
- Enter on Button 4 Column 0 and current price flashes
- Advance on Button 2/ decrease on Button 3 to desired price
- Press Button 4 to save change



- Continue as outlined above for all columns on Shelf 1
- Press Button 1 to exit once all columns on Shelf 1 have been priced.
- Advance on Button 2 Shelf 2
- Price columns as indicated above for Shelves 2 through 7
- Exit on Button 1 twice to return to Set Price



Trays/Shelves Numbering Diagram

Configuration:

To change individual options for Configuration Settings, enter the option on Button 4. Re-enter on Button 4, 'On or Off' will be flashing. Advance to 'On or Off' on Button 2 and save the change on Button 4. Program each Configuration Option in this manner.

Configuration Options are detailed below:

Multi-Price:

On - Selections may be programmed individually

Off - Single Price based on price of Selection 1

Timing Features:

On - Access to 'Clock Settings' and associated modes

Off – Access is denied

Door Summary:

On - Sales, Cash and Errors are displayed when outer door is opened

Off – Sales and Cash are not displayed, error summary will be

MIS Auto Reset:

On - Pressing the Door Switch will reset individual selection data back to 0

Off - Sales and Cash Data will not be reset by the Door Switch

Consumer Overpay:

On - Money will be accepted when the 'Correct Change Light' is on and there is insufficient coin in the coin tubes.

Off – Exact change only required to make a vend

Save Credit Timer:

On - Credit established will display for 5 minutes only

Off – Credit established will remain until either a vend is made or the coin return is pressed.



Configuration (Cont.):

Force Vend:

- On The consumer will not be able to deposit money, press the coin return and receive change without attempting a vend first.
- Off Vendor is set as a 'change' machine. Consumer can deposit money, press the coin return and receive change.

Multi-Vend:

- On The consumer may insert sufficient credit to make multiple purchases.
 Remaining credit will display until consumer either makes another selection or presses the coin return.
- Off Consumer makes a single purchase and change is returned immediately.

Deny Escrow:

- On Validator will stack all bills received
- Off Validator will 'hold' the bill in 'escrow' until the vend is complete.

 if the consumer presses the coin return the 'bill' is returned to them.

S/O (Error) Indicator:

- On A small symbol (*) will appear in the lower right hand corner of the display when the vendor detects an error or a sold out column.
- Off The symbol will not appear.

Count by Selection/Price:

Count by Selection - Individual Sales and Cash Data are displayed.

Count by Price - Individual Sales and Cash Data is reported by vend price.

MIS Reset with DEX:

On - Non-Historical MIS Data will reset when a DEX read has been done.

Off – No MIS Data will be reset.

Double Talk: - This is a kit supplied by a third party source**

On - Module will vocalize messages.

Off – Module will not vocalize messages.

Display Scroll:

On - Messages 'Scroll' from left to right side of display.

Off – Messages do not scroll.

<u>Display Temperature:</u>

Off - Cabinet temperature will not display.

Ref – Internal Refrigeration Temperature will display as 'Refrigeration Temperature'.

Cbt - Internal Cabinet Temperature will display as 'Cabinet Temperature'. **

** Note: Requires Temperature Lockout Kit in order to display

Vend Protect:

- On The 'Hand' will stay next to the flap until product is removed/ bucket closes.
- Off The 'Hand' will return to the 'Home' position after product is delivered to the vend flap.

PDC Wait Time: (Available only in VMC Rev. 1.45 and PDC Rev. 1.18)

Default: 30s

Off/15s/30s/45s/45s/60s - PDC waiting time at the center after a vend.



<u>DEX Version</u>: (Available only in VMC Rev. 1.20 and PDC Rev. 1.16)

Default: Trade

Trade/Coke/Pepsi - Options for machine type

Door Closed Password:

Allows the operator to set a password to access Sales Data when the door is closed. **This function does not work if a vend price is set at 0.00 **

- Enter on Button 4 current 'Password' will display with the 1st digit flashing indicating that it is ready to be edited
- Press Buttons 2 and 3 to change the digits. NOTE: Valid digits are 1 through 6. The Password 0000 will disable this feature.
- 3. Press Button 4 to save digit and advance to the next
- Press Button 4 after 4th digit is assigned Door Closed Password will display
- ** Do not close door prior to programming all 4 digits of the password.

Set Language:

The current Languages available for programming are: English, Spanish and French.

- Enter on Button 4 current language will display
- Enter on Button 4 again current language flashes
- Advance on Button 2 to desired language
- Press Button 4 to save.
- Press Button 1 to exit.

Set Clock:

When the 'Timing Features' in Configuration Mode is turned 'On', this Clock can be set.

- Enter on Button 4 at Set Clock Enable Off will display (If no prior programming was done)
- Enter on Button 4 Off will flash
- Press Button 2 to advance Off to On
- Press Button 4 to save setting
- Advance on Button 2 'Daylight Savings'
- Enter on Button 4 current setting will display
- Press Button 4 current setting flashes
- Advance on Button 2 to desired setting
- Press Button 4 to save setting
- 11. Press Button 1 to exit Daylight Savings
- Advance on Button 2 MM/DD/YYYY HH:MM will display
- Enter on Button 4 MM flashes (month)
- 14. Advance on Button 2 to correct month
- Press Button 4 to 'save' DD flashes (day)
- Advance on Button 2 to correct day



- Press Button 4 to 'save' YYYY with YY flashing (last 2 digits of year)
- Advance on Button 2 to correct year
- 19. Press button 4 to 'save' HH flashes (hour)
- Advance on Button 2 to correct hour
- Press Button 4 to 'save' mm flashes (minutes)
- 22. Advance on Button 2 to correct minutes
- Press Button 4 to save setting MM/DD/YYYY HH:MM will display
- Press Button 1 to exit Set Clock

Lighting:

'Timing Features' in Configuration Mode must be turned 'On' to access this feature. You have the option to turn the lights or LED off once during a 24-hour period for energy conservation. The options available are Cabinet and LED.

Example:

Lighting Mode - Enable On/ Off

Lighting – Cabinet

Start Time 1 – Start Day 1 – Mon-Sun/Everyday

Start 1 hh:mm

Stop Time 1 – Stop Day 1 – Mon-Sun/Everyday

Stop 1 hh:mm

Lighting – LEDs

Start Time 2 - Start Day 2 - Mon-Sun/Everyday

Start 2 hh:mm

Stop Time 2 – Stop Day 2 – Mon-Sun/Everyday

Stop 2 hh:mm

- * On associated with a programmed start/stop
- * Off not associated with a programmed start/stop
- Press Button 4 'Lighting Mode Enable Off (if no prior program was set)
- Press Button 4 Off is flashing
- Advance on Button 2 On
- Press Button 4 to save setting Lighting Mode Enable On
- Press Button 4 to 'save'
- Advance on Button 2 Lighting Cabinet
- Advance again on Button 2 Lighting LEDs



To Set Lighting Cabinet or Lighting LEDs:

- Press Button 4 to enter Start Time 1(Lighting) or Start Time 2 (LEDs)
- Press Button 4 again Start Day 1 or 2 mon-sun-everyday Off/On
- Press Button 4 again Off/On flashes
- Press Button 2 to scroll between On/Off
- Press Button 4 to save setting
- Press Button 1 Start Day 1 or 2
- Advance on Button 2 Start 1: 08:00 (if no prior programming was set hh:mm)
- Enter on Button 4 at 'Start 1 or 2 the 08 flashes (hour)
- Advance on Button 2 to desired setting
- Press Button 4 to save –: 00 begins flashing (minutes)
- Advance on Button 2 to desired setting
- Press Button 4 to save setting Start 1 or 2 and hh:mm you programmed will display
- Press Button 1 Start Time 1or 2
- Press Button 2 to advance to Stop Time 1 or 2
- Press Button 4 Stop Day 1 or 2
- Press Button 4 Stop Day 1 or 2 mon-sun-everyday Off/On
- Repeat above steps for Stop Time 1 or 2

Refrigeration:

If 'Timing Features' in Configuration Mode are 'Off', you will only have access to the following features:

Set point

Sensor Reading

Degree X – Celsius or Fahrenheit

Fan Default

Periodic Defrost – On/Off

When Timing Features is set on in Configuration, you can raise the cabinet temperature 18 °F/4°C twice during a 24 hour period for energy conservation.



Refrigeration:

- Enter on Button 4 'Set Point'
- Enter on Button 4 current 'Set Point' will display (Factory setting is 36°F/2°C)
- Press Button 4 current temperature will flash
- Press Button 2 or 3 to scroll through the following settings:

Temperature setting		33	34	35	36	37	38	39	40
Cut-in Temperature (F)	34	35	36	37	38	39	40	41	42
Cut-out Temperature (F)	31	32	33	34	35	36	37	38	39
Nominal Temperature (F)		33	34	35	36	37	38	39	40
Nominal Temperature ©		0.5	1	1.5	2	2.5	3	3.5	4

- Press Button 4 to 'save' desired setting
- Press Button 1 to exit Set Point
- Advance on Button 2 Sensor Reading
- Press Button 4 Current reading in either F/C will display must be set as Ref in Configuration first.
- Press Button 1 Sensor Reading
- Advance on Button 2 Degree F/C
- Enter on Button 4 current setting flashes
- Press Button 2 to scroll between F/C
- Press Button 4 to save desired setting

Fan Default:

Default Mode: Fan on/off behaves in same respect as the compressor.

Mode 1: Fan is time delayed with compressor cut in/cut out

- 1. At cut in, fan will come on 1 minute after compressor turns on
- At cut out, fan will continue to run 1 minute after compressor is off
- Fan off with door switch activation

Periodic Defrost:

- Press Button 4 On/Off
- Press Button 4 On/Off flashes
- Advance on Button 2 to desired setting
 - On The vendor will defrost every 6 hours for 30 minutes. This feature is used in extremely high humidity environments.
 - Off The vendor will not defrost every 6 hours.
- 4. Press Button 4 to 'save' setting
- Press Button 1 to exit

When 'Timing Features' in Configuration are turned 'On', the following Modes are accessible:



Refrigeration - Enable Timer On/Off

Start Time – Start Day 1/2 – Mon-Sun/All

Start hh:mm

Stop Time - Stop Day 1/2 - Mon-Sun/All

Stop hh:mm

Enable Timer:

- Press Button 4 On/Off flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 2 Start Time 1. Time Refrigeration turns off/begin conservation
- Press Button 4 Start Day 1
- Press Button 4 current setting flashes
- Press Button 2/3 to scroll through days of the week or 'All'
- Press Button 4 On/Off flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit Start Day 1
- Press Button 2 to advance to Start 1 hh:mm
- Press Button 4 at Start 1 hh:mm hh flashes
- 14. Press Button 2 to set the hh
- Press Button 4 to 'save' setting mm flashes
- Press Button 2 to set: mm
- Press Button 4 to 'save' setting
- Press Button 1 to exit Start Day 1
- Advance on Button 2 Stop Day 1
- Follow the steps outlined above to complete Stop Time 1, Start Time 2, Stop Time 2
- 21. Press Button 2 to advance

TempLO (Temperature Lock Out):

- 1. Enable timing feature in configuration
- Advance on button 2 to TempLO shlf 1
- Press Button 4 Disable will flash
- Advance on Button 2 Enable
- Press Button 4 to 'save' setting
- Continue in above manner for all shelves associated with Temperature Lockout

Note: The Temperature Lockout Feature (TempLO) requires an additional temperature sensor connected at the top left on the inside of the cabinet. When the cabinet temperature is above 41°F/3.5 °C for more then 15 minutes, the vendor will shut down any shelves associated with the Temperature Lockout Feature.



Sales Block: (8 Blocks are available in this Mode)

Sales Block allows the operator to turn Selections On/Off at 8 intervals during a 24-hour period. Times must <u>not</u> overlap. You must enter the following information:

Selections – the selection buttons that will be disabled during the blocked time

Start Time - the time selections will be 'Off Line'

Start Days - the days selections will be 'Off Line'

Stop Time – the time selections will turn back 'On'

Stop Days - the days selections will turn back 'On'

Sales Block 1 - 8 Cont'd:

Sales Block 1:

Press Button 4 – Enable On/Off, Light

Enable Off – Block Function is disabled

Enable On - Block Function is enabled

Enable Light - Block Function is enabled and lights are off when blocking occurs

- Press Button 4 On/Off Light flashes
- Press Button 2 to advance to desired setting
- Press Button 4 to 'save' setting your choice will display
- Press Button 2 to advance to Selections

Choose Selections:

- Press Button 4 at Selections All Selections On/Off will display
- Press Button 4 On/Off flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit

Set all Selections:

- Press Button 4 All Selections On/Off
- Press Button 4 On/Off flashes
- Press Button 2 to advance to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit Selections

Selections per Shelf:

- Press Button 4 All Selections On/Off
- Press Button 2 to advance to desired shelf
- Press Button 4 All Columns



- Press Button 4 again On/Off flashes
- Press Button 2 to advance to On/Off
- Press Button 4 to 'save' setting
- Press Button 1 twice to exit Selections

Set Columns:

- Press Button 4 All Selections On/Off
- Press Button 2 to advance to desired shelf
- Press Button 4 All Columns
- Press Button 2 to advance to desired Column
- Press Button 4 On/Off flashes
- Press Button 2 to advance to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 twice to exit

Start Time: (Beginning of Blocking Period)

- Press Button 2 Start Time
- Press Button 4 Start Day
- Press Button 4 Every Day
- Press Button 2 or 3 to select days or Every Day
- Press Button 4 to change the status of the days On/Off flashes
 If the status is 'On', product delivery is blocked
 If the status is 'Off', product delivery is normal
- Press Button 2 to change status
- Press Button 4 to 'save' setting
- Press Button 1 Start Day
- Press Button 2 Start hh:mm
- Press Button 4 hh (hour setting flashes)
- Press Button 2 to advance to desired Start Hour. (Military Time)
- Press Button 4 to 'save' setting -: mm flashes
- Press Button 2 to advance to desired minutes
- Press Button 4 to 'save' setting
- Press Button 1 to exit and return to Start Time

Stop Time: (End of Blocking Period)

- Advance on Button 2 Stop Time
- Press Button 4 Stop Day
- Press Button 4
- Press Button 2 or 3 to select days or Every Day
- Press Button 4 to change the status of the days On/Off flashes If the status is 'On', product delivery is blocked



If the status is 'Off', product delivery is normal

- Press Button 2 to change status
- Press Button 4 to 'save' setting
- Press Button 2 Stop hh:mm
- Press Button 4 hh (hour setting) flashes
- 10. Press Button 2 to advance to desired Start Hour. (Military Time)
- Press Button 4 to 'save' setting -: mm flashes
- Press Button 2 to advance to desired minutes
- Press Button 4 to 'save' setting
- Press Button 1 to exit and return to Stop Time
- Pressing Button 1 again will return the operator to Sales Block 1-8 mode

Discount:

This feature permits the operator to program the vendor to discount product once during a 24hour period. To program a Discount, you must enter the following information:

Discounted Selection(s) - Selection(s) offered at a discounted price

Start Time - Time the Discount begins

Start Day(s) - Days the Discount is offered

Stop Time - Time(s) Discount ends

Stop Day - Day(s) the Discount ends

Amount - Amount subtracted/discounted from original vend price

Choose Selections:

- Press Button 4 Enable On/Off
 - Enable Off Discount function is disabled
 - Enable On Discount function is enabled
- Press Button 4 Off flashes
- Press Button 2 to select desired setting
- Press Button 4 to 'save' setting Enable 'On' will display
- Press Button 2 Discounted Selection

Set Discount for 'All' Selections:

- Press Button 4 Discount all selections 'Off'
- Press Button 4 'Off' flashes
- Press Button 2 to Advance to 'On'
- Press Button 4 to 'save' setting
- Press Button 1 to exit



Set Discounted Selections per Shelf:

- Press Button 4 Discount All Selections 'Off'
- Advance on Button 2 to desired shelf number
- Press Button 4 to enter Shelf X All Columns 'Off'
- Press Button 4 On/Off flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit

Start Time:

- Advance on Button 2 Discount Start Time
- Press Button 4 Discount Start Day
- Press Button 4 Mon-Sun/Everyday
- Press Button 4 again Everyday flashes
- Advance on Button 2 to desired day
- Press Button 4 On/Off flashes
- Advance on Button 2 to change current status
- Press Button 4 to 'save' setting
- 9. Set balance of Selections in manner described above
- Exit on Button 1 Discount Start Day
- Advance on Button 2 Start hh:mm (hour/ minutes)
- Press Button 4 hh flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting :mm flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit Start Time

Stop Time:

- Advance on Button 2 Stop Time
- Press Button 4 Stop Day
- Press Button 4 mon-sun/everyday
- Press Button 4 again everyday flashes
- Advance on Button 2 to desired day
- Press Button 4 On/Off flashes
- Advance on Button 2 to change current status
- Press Button 4 to 'save' setting
- Set balance of Selections in manner described above
- Exit on Button 1 Stop Day
- Advance on Button 2 Stop hh:mm (hour/ minutes)
- Press Button 4 hh flashes



- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting :mm flashes
- Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit Stop Time

Set Discount Amount:

The Discount is the amount being subtracted from the regular vend price.

- Press Button 4 .00 flashing
- Advance on Button 2 to desired discount amount
- 3. Press Button 4 to 'save' setting
- Press Button 1 to exit Discount Amount

Override: (Optional Kit)

The Key Switch Override Kit allows the operator to 'bypass without removing' Timing Features the operator has programmed in the controller.

On – Key Swith will override these Timing features.

Off - Key Switch will not override these Timing features.

The following Timing featuress can be programmed to the key switch.

Free Vend – On/Off
Sales Blocking – On/Off
Discount – On/Off
Light Timing – On/Off
Refrigeration – On/Off

Free Vend:

- Enter on Button 4 On/Off flashes
- 2. Advance on Button 2 to desired setting
- Press Button 4 to 'save' setting
- Press Button 1 to exit Free Vend

Program Sales Blocking, Discount, Light Timing and Refrigeration in the manner described above. Press Button 1 to exit.



Custom Message:

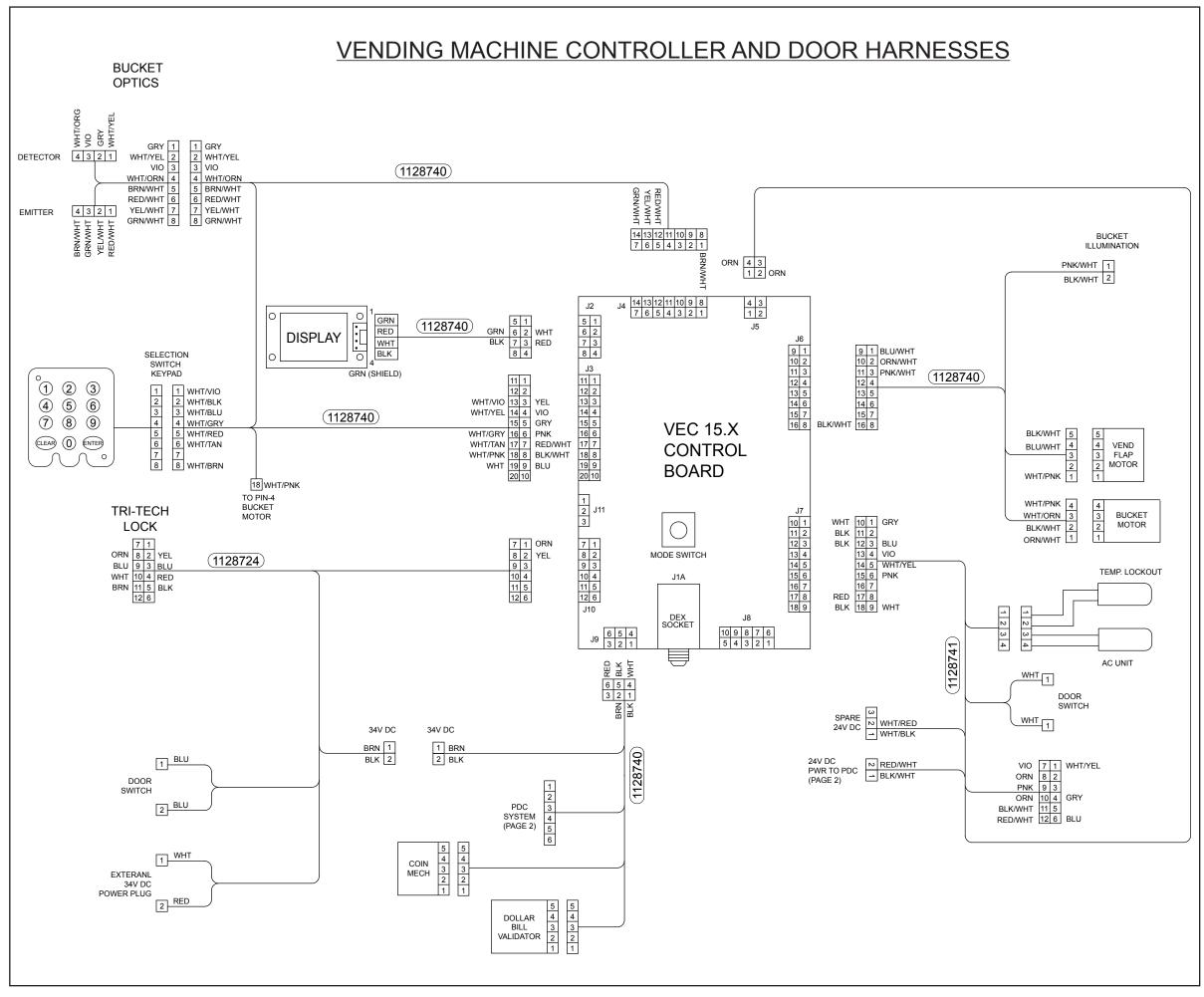
The custom message feature allows the operator to program a 2 line X 20 character message.

Note:

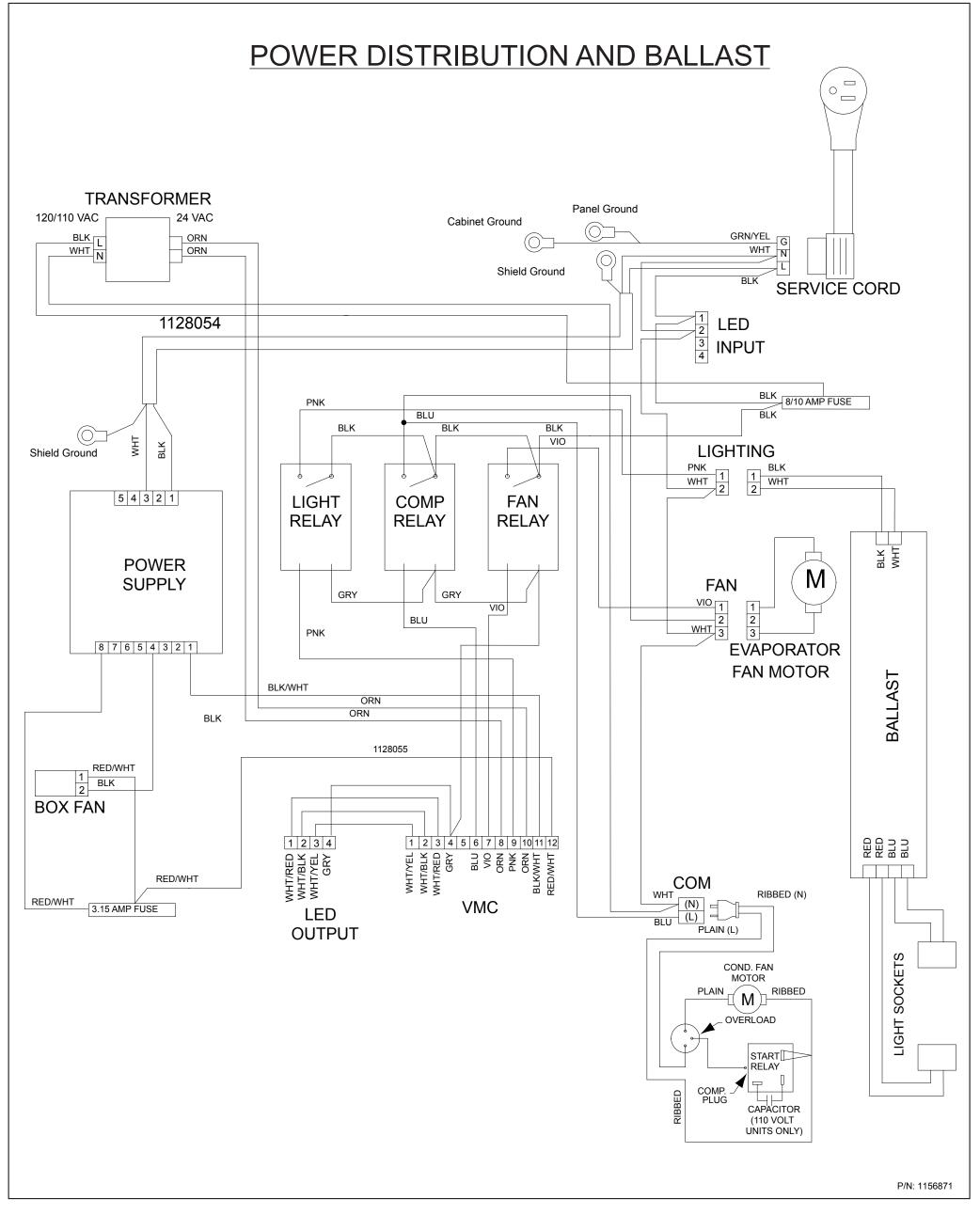
- 1. Press Button 1 to make a space between words.
- The message cannot be saved until all the characters on the top line have been entered.
- Press Button 4 at Custom Message Enable On/Off
- Press Button 2 On/Off flashes
- Advance on Button 2 to On
- Press Button 4 to 'save' setting
- 5 Advance on Button 2 current messages displays
- Press Button 4 1st character flashes
- Press Button 2 to advance to desired character
- 8. Press Button 4 to 'save' character immediately advances to next character
- Continue setting message using steps outlined above
- 10. Press and hold Button 1 for 3 seconds to save the message and exit mode

Return:

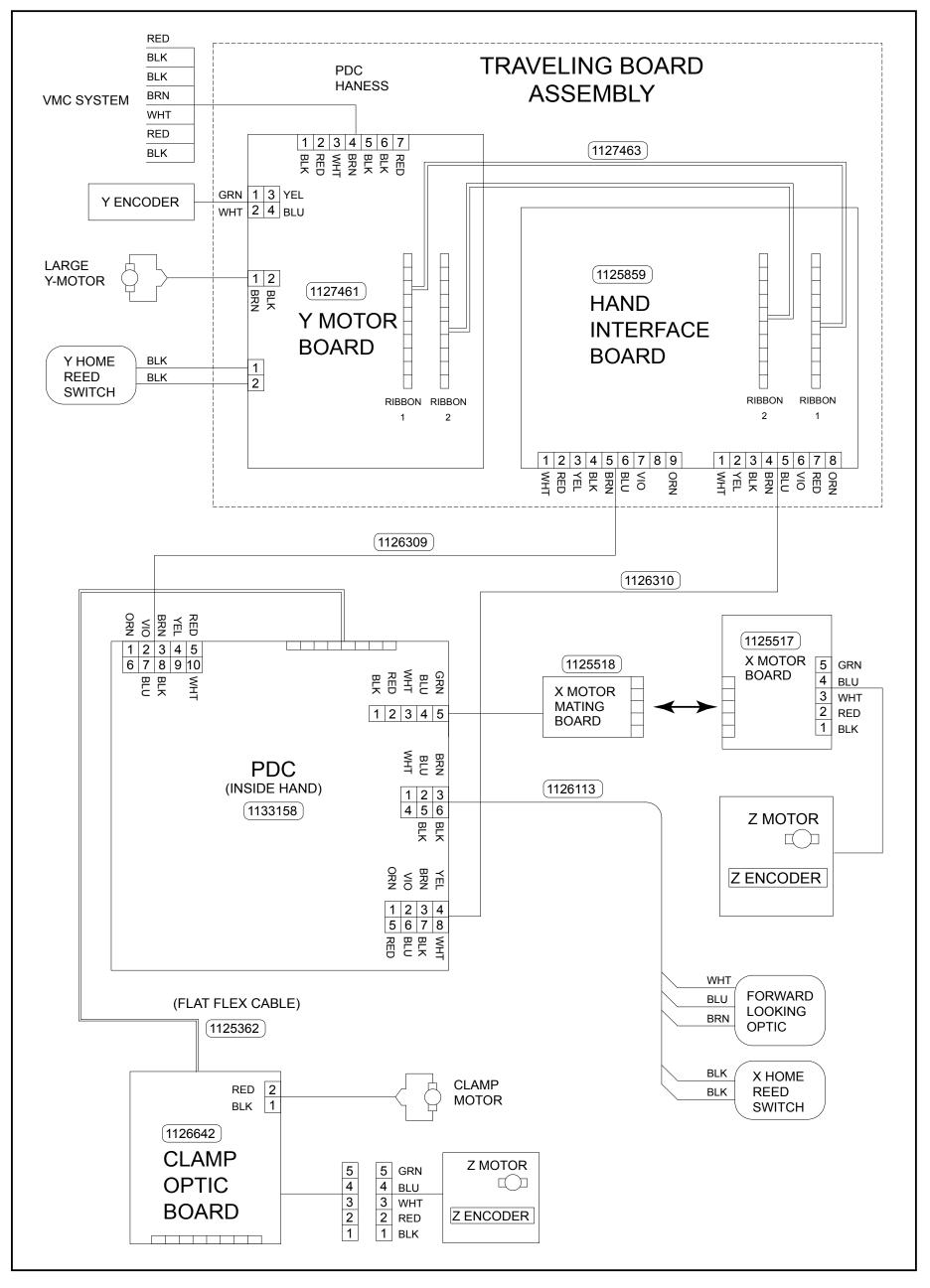
Exits the programming mode and returns the vendor to stand-by



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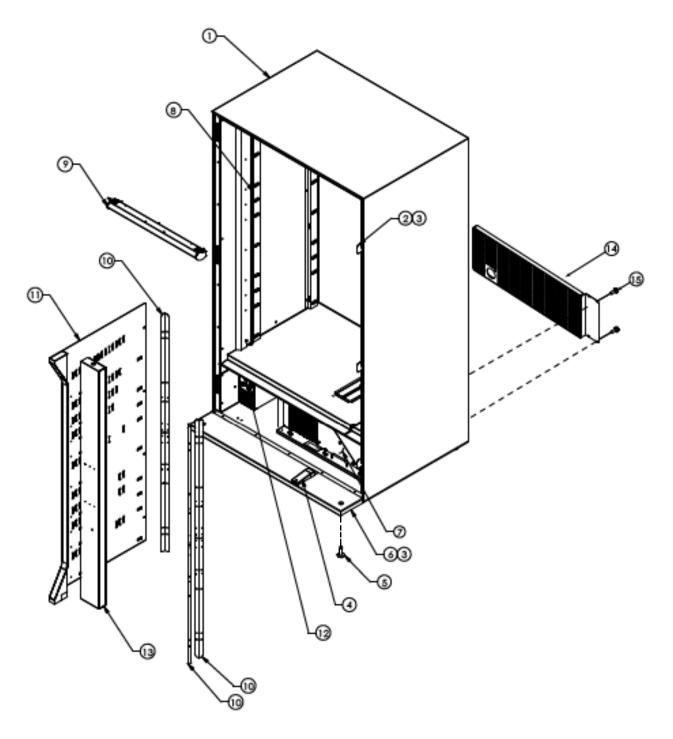
NOTES





CABINET SECTION





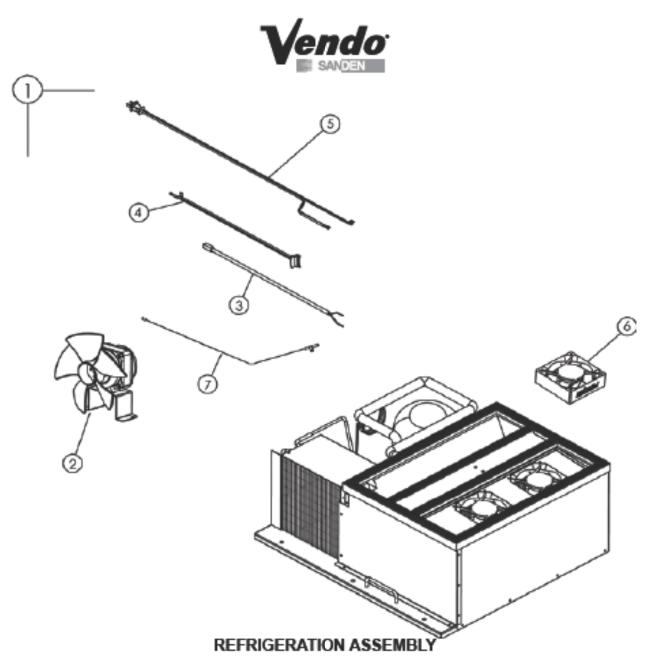
C-2



CABINET ASSEMBLY

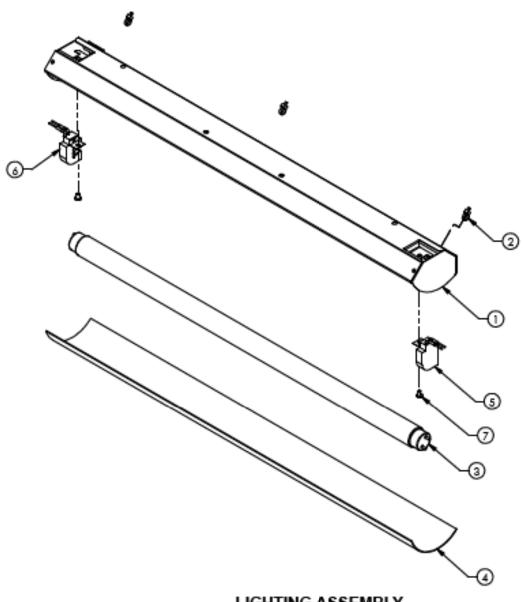
ITEM NO	DESCRIPTION	QTY	PART NO
1	FOAMED CABINET	1	x
2	CABINET LATCH	3	1172104
3	SCREW, #10 X 3/8" CR TAP	11	V802212
4	RAMP ASSEMBLY	1	1133925
	RAMP, DOOR	1	1130868
	THUMB SCREW, 1/4-20 X .5, RAMP	1	1127060
5	LEVELING BOLT	4	1059902
6	BASE COVER PANEL	1	1127758
7	REFRIGERATION ASSEMBLY (SEE PAGE C-4)	1	~
8	CHANNEL-TRAY SUPPORT	2	1126639
9	LIGHT ASSEMBLY (SEE PAGE C-5)	1	~
10	ANGLE MOUNT, VERTICAL PANEL	3	1131149
11	AIR DUCT ASSEMBLY	1	1127962
12	POWER DISTRIBUTION ASSEMBLY (SEE PAGES C8-C9)	1	~
13	VERTICAL FOAM PANEL	1	1133699
14	PANEL,SCREEN,REAR,41.5"	1	1168689
14	PANEL,SCREEN,REAR,34"	1	1168707
15	#10 X 1/2" SELF DRILLLING SCREW	4	V801489

^{*} NOTE: WHEN ORDERING FOAMED CABINET ASSEMBLY OR BASE COVER PANEL, PLEASE PROVIDE 9- CODE AND MANUFACTURER'S DATE CODE.



ITEM NO	DESCRIPTION	QTY	PART NO
	REFRIGERATION UNIT ASSEMBLY, 115V	1	1147845
_ ' _	REFRIGERATION UNIT ASSEMBLY, 230V	1	1147856
2	FAN ASSY, CONDENSOR, 115V	1	1126307
	FAN ASSY, CONDENSOR, 230V	1	1127995
3	HARNESS, FAN MOTOR	1	1125571
4	CORD, CONDENSOR MOTOR	1	1121020
5	POWER CORD, COMPRESSOR	1	1121019-3
6	FAN ASSY, EVAPORATOR, 115V	1	1126260
0	FAN ASSY, EVAPORATOR, 230V	1	1127994
7	TEMPERATURE SENSOR	1	1122924

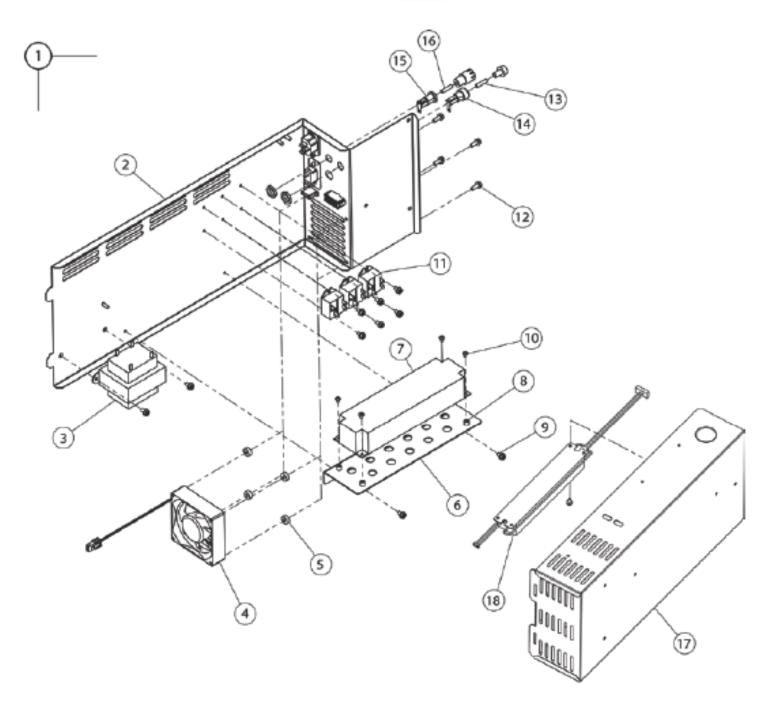




LIGHTING ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	LAMP HOLDER	1	1127650
2	TIE WRAP RT-350	3	342469-1
3	LAMP, 2FT, T-8, 17W	1	1130637
4	LAMP LENS	1	1125967
5	LAMPHOLDER, .591 RH	1	1126146
6	LAMPHOLDER, .591 LH	1	1126145
7	SCREW, 6-35 X.25 TRUSS HEAD	2	V802243





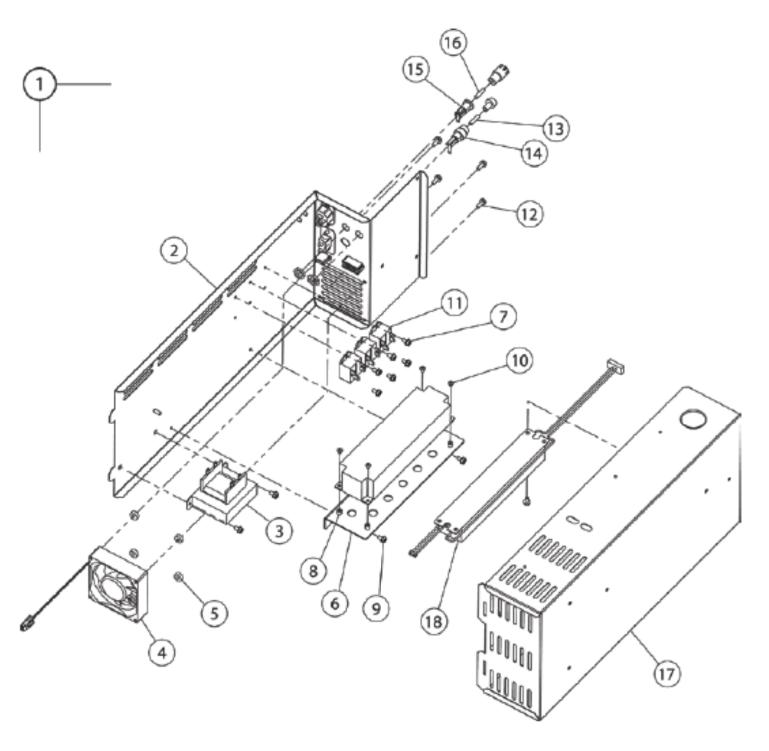
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POWER DISTRIBUTION ASSEMBLY, 115V

ITEM NO	DESCRIPTION	QTY	PART NO
1	POWER DISTRIBUTION ASSEMBLY, 115 V	1	1128752
2	PANEL, POWER DISTRIBUTION	1	1128743
3	TRANSFORMER, 24 VAC	1	1111201
4	FAN, PWR DISTRIBUTION	1	1127890
5	BUSHING	4	1116634
6	PLATE, PWR SUPPLY	1	1128356
7	POWER SUPPLY, 24V DC	1	1128783
8	STANDOFF	4	V802255
9	SCREW, 10-16 5/16 HEX HEAD	13	V801421
10	SCREW, 6-32 1/4	4	V802243
11	RELAY, 24 VOLT DC	3	1128801
12	SCREW, 10-16 1/2 HEX HEAD	4	V801422
13	FUSE, 3.15 AMP SLOW BLOW	1	1127484
14	HOLDER, FUSE 1-1/4 X 1/4	1	1128474
15	HOLDER, FUSE 5X20MM	1	1128473
16	FUSE, 0.8 AMP/250V, 3AG	1	1053864
17	BOX, DISTRIBUTION PANEL	1	1131242
18	BALLAST, ELECT.	1	1144522





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POWER DISTRIBUTION ASSEMBLY, 230V

ITEM NO	DESCRIPTION	QTY	PART NO
1	POWER DISTRIBUTION ASSEMBLY, 230 V	1	1128752
2	PANEL, POWER DISTRIBUTION	1	1128743
3	TRANSFORMER, INTERNATIONAL, 230/24 VAC	1	1121932
4	FAN, PWR DISTRIBUTION	1	1127890
5	BUSHING	4	1116634
6	PLATE, PWR SUPPLY	1	1128356
7	POWER SUPPLY, 24V DC	1	1137384
8	STANDOFF	4	V802255
9	SCREW, 10-16 5/16 HEX HEAD	13	V801421
10	SCREW, 6-32 1/4	4	V802243
11	RELAY, 24 VOLT DC	3	1128801
12	SCREW, 10-16 1/2 HEX HEAD	4	V801422
13	FUSE, 3.15 AMP SLOW BLOW	1	1127484
14	HOLDER, FUSE 1-1/4 X 1/4	1	1128474
15	HOLDER, FUSE 5X20MM	1	1128473
16	FUSE, 0.8 AMP/250V, 3AG	1	1053864
17	BOX, DISTRIBUTION PANEL	1	1131242
18	BALLAST, ELECT.	1	1144522



HARNESS QUICK GUIDE

PART NO	DESCRIPTION
1127592	Cabinet Harness
1128054	Power Distribution Harness, High Voltage
1128750	Power Distribution Harness, Low Voltage
1125571	Fan Motor Harness
1121019-3	Compressor Power Cord
1121020	Condensor Motor Cord
1124281	Cord Set 90 Deg Plug & IEC
1121642	Cord Set, UK
1121641	Cord Set, Cont. Europe
1121643	Cord Set, Australia



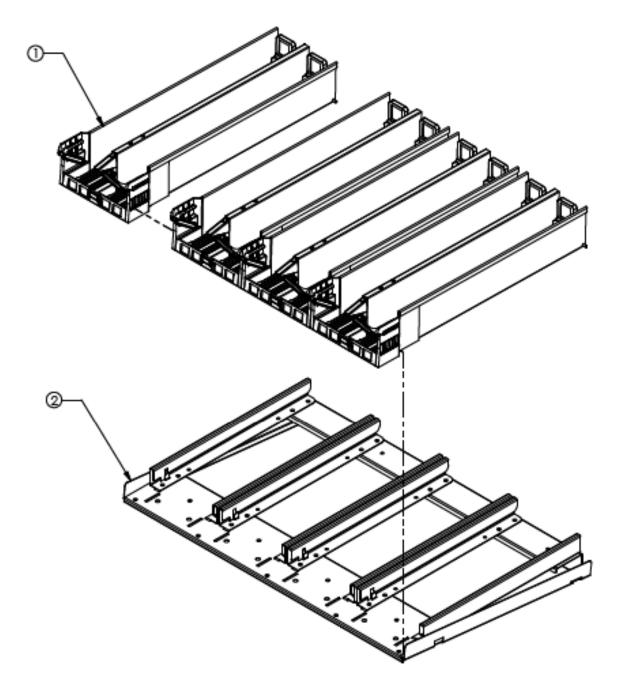
NOTES





SHELVES & TRAYS PARTS SECTION

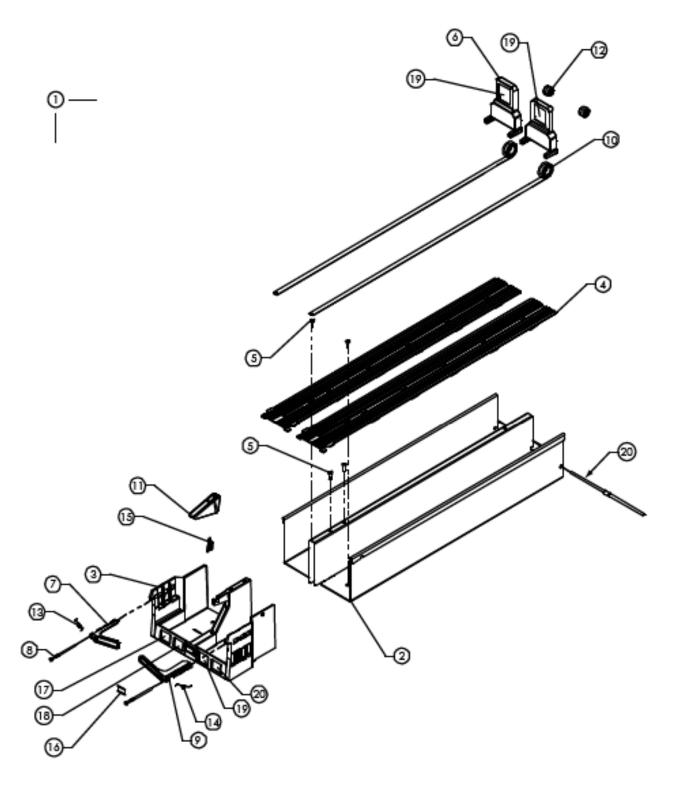




SHELF AND TRAY ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	TRAY ASSEMBLY	1	1133755
2	SHELF ASSEMBLY, 41.5*	A/R	1125195
	SHELF ASSEMBLY, 34"	A/R	1136835





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TRAY ASSEMBLY

ITEM	DESCRIPTION	QTY.	PART NO.
1	TRAY ASSEMBLY	1	1133755
2	TRAY BODY ASSEMBLY	1	1131291
3	TRAY FRONT	1	1133109
4	PRODUCT SLIDER, TRAY	2	1125141
5	SCREW #8-10 X 1/2" PAN HEAD	4	V802214
6	PUSHER, TRAY ASSY	2	1125140
7	GATE, LEFT, TRAY ASSY	1	1128285
8	PIN, PIVOT, TRAY FRONT	2	1125192
9	GATE, RIGHT, TRAY ASSY	1	1128284
10	SPRING, PUSHER, TRAY ASSY	2	1125526
11	GATE, CENTER, TRAY ASSY	1	1125737
12	ROLLER, SPRING	2	1125821
13	SPRING, TORSION, LEFT	1	1125856
14	SPRING, TORSION, RIGHT	1	1125856-1
15	SPRING, TENSION	1	1060023
16	REFLECTOR, TRAY ASSY	1	1126341
17	PRODUCT NUMBER LABEL	1	1139095
18	PRICE LABELS	A/R	х
19	PRODUCT I.D. LABELS	A/R	×
20	STOP ROD	1	1131897

^{*} NOTE: WHEN ORDERING PRICE LABELS AND PRODUCT I.D. LABELS, PLEASE PROVIDE 9-CODE AND STYLE.



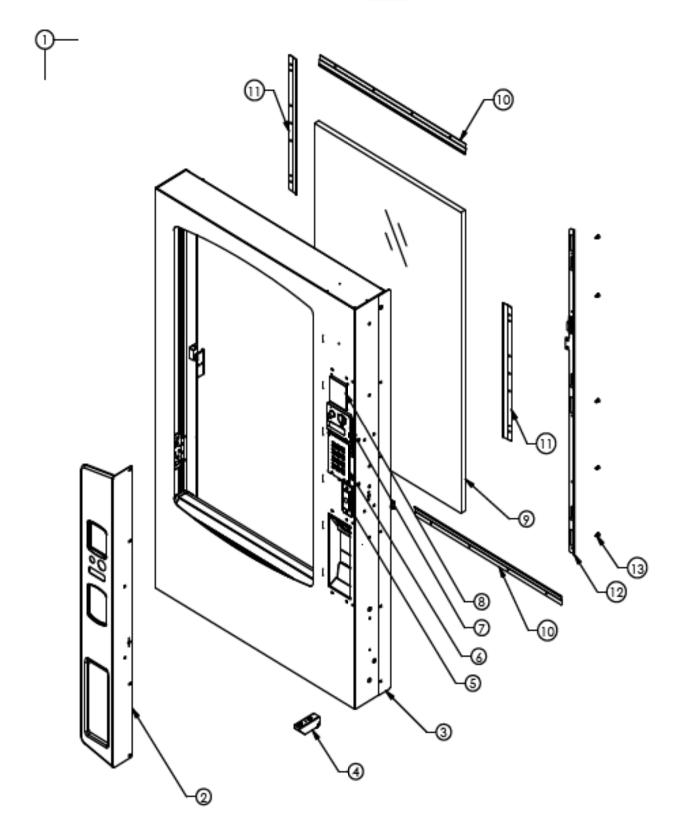
NOTES





DOOR PARTS SECTION





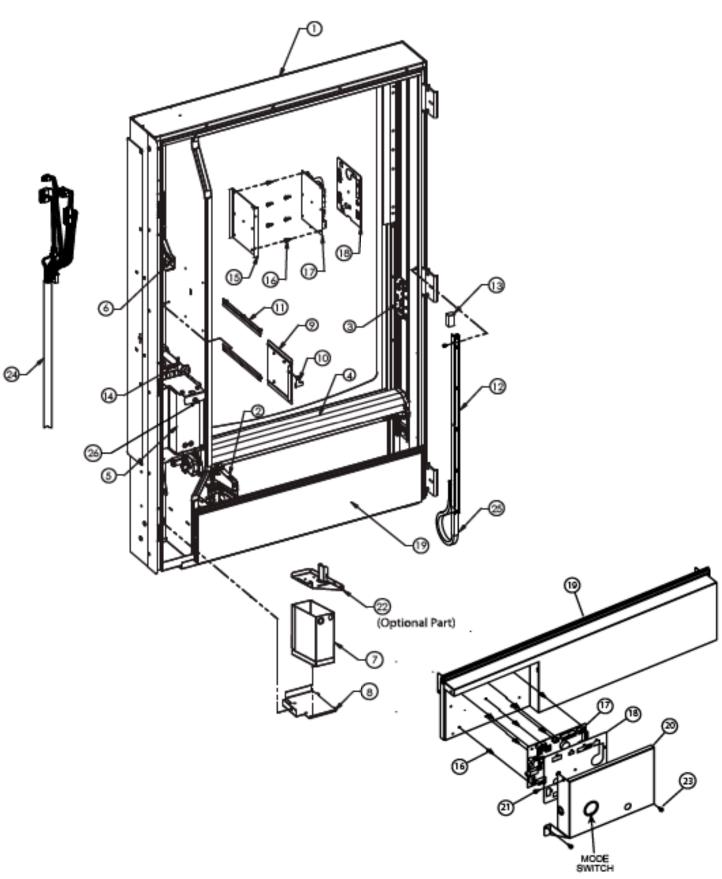


DOOR ASSEMBLY

ITEM NO	DESCRIPTION	QTY.	PART NO
1	SERVICE DOOR ASSEMBLY	2	x
2	CONTROL PANEL	1	x
3	DOOR GUARD	1	x
4	DOOR ROLLER ASSEMBLY	1	1133482-7
5	T-HANDLE LOCK ASSEMBY (SEE D24)	1	1133778
6	KEYPAD ASSEMBLY (SEE D17)	1	1133445
7	COIN ENTRY & COIN RETURN ASSEMBLY (SEE D18-D19)	~	~
8	DBV PLUG	1	388216
9	INSULATED GLASS PANEL	1	1125109
10	GLASS RETAINER - TOP & BOTTOM	2	1130894
11	GLASS RETAINER - RIGHT & LEFT	2	1130894-1
12	LATCH SLIDER BAR ASSEMBLY, UNIVERSAL	1	1143013
13	GLIDE, NYLON	5	1126532

^{*} NOTE: WHEN ORDERING SERVICE DOOR ASSEMBLY, CONTROL PANEL, OR DOOR GUARD, PLEASE PROVIDE 9-CODE AND MANUFACTURER'S DATE CODE.





D-4

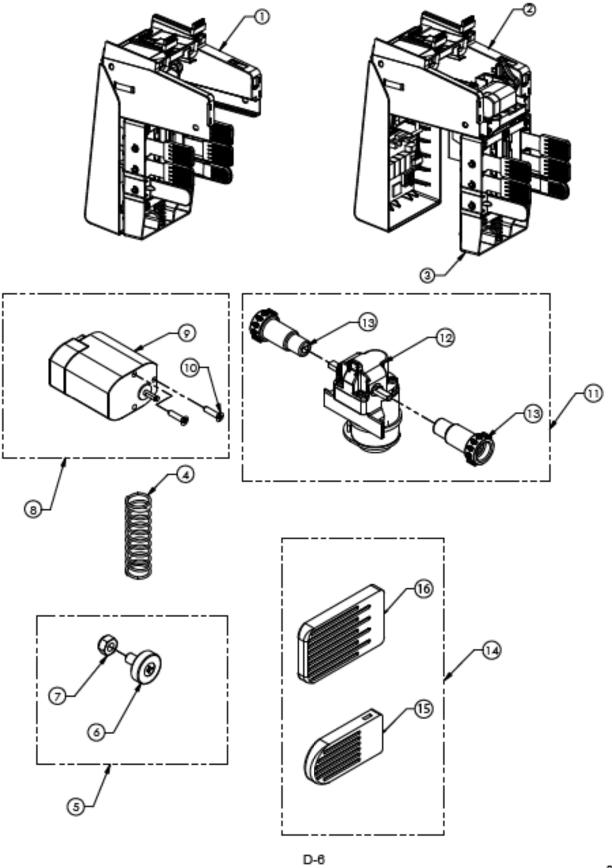


DOOR ASSEMBLY (CONTINUED)

ITEM NO	DESCRIPTION	QTY.	PART NO
1	FOAMED OUTER DOOR	1	x
2	Z-HOUSING & HAND ASSEMLBIES (SEE PG D8)	1	~
3	Y-RAIL ASSEMBLY-HINGE SIDE (SEE PGS D9 - D10)	1	1133419
3	Y-RAIL ASSEMBLY-LATCH SIDE (SEE PGS D11 - D12)	1	1133421
4	X-RAIL & X-CARRIAGE ASSEMBLIES (SEE PGS D13 - D16)	1	~
5	DELIVERY ASSEMBLY (SEE PGS D20-23)	1	~
6	COIN ENTRY & COIN RETURN ASSEMBLY (SEE PGS D18 - D19)	1	~
7	COIN BOX	1	1130789
8	COIN BOX SHELF	1	1154862
9	COINAGE MOUNTING BRACKET	1	1133547
10	COINAGE SLIDE LATCH	1	1130511
11	COINAGE GUIDE MOUNTING BRACKET	2	1130493
12	CABLE GUIDE BRACKET	1	1131356
13	COVER, HARNESS LOOP	1	1138923
14	CHUTE, COINBOX	1	1136536
~	CONTROL BOARD ASSEMBLY	1	1133883
15	CONTROL BOARD MOUNTING BRACKET	1	1130418
16	STANDOFF	7	1121740
17	PCBA - VEC 15.1	1	1168227
18	PCBA COVER	1	1123529
	LOWER INSULATED PANEL ASSEMBLY-NO CUT OUT, 41.5"	1	1135661
19	LOWER INSULATED PANEL ASSEMBLY-NO CUT OUT, 34"	1	1138124
18	LOWER INSULATED PANEL ASSEMBLY-WITH CUT OUT, 41.5"	1	1135661
	LOWER INSULATED PANEL ASSEMBLY-WITH CUT OUT, 34"	1	1136124
20	BRACKET, CONTROL BOARD, COVER	1	1135582
21	SCREW, #10-16 X 1/2 P HEX HD ZP	1	V802141
22	MTG BRKT ASSY, COIN SECURITY	1	1134061
23	SCREW, #10-16 X 1/2 CR HEX SELF DRILL	2	V801489
24	MAIN DOOR HARNESS (UPPER MOUNTING VMC BD)	1	1127395
24	MAIN DOOR HARNESS (LOWER MOUNTING VMC BD)	1	1165562
25	PDC HARNESS (UPPER MOUNTING VMC BD)	1	1128326
25	PDC HARNESS (LOWER MOUNTING VMC BD)	1	1156093
26	SWITCH, DOOR DOUBLE POLE	1	1126607

^{*} NOTE: WHEN ORDERING FOAMED DOOR ASSEMBLY PLEASE PROVIDE 9-CODE AND MANUFACTURER'S DATE CODE.



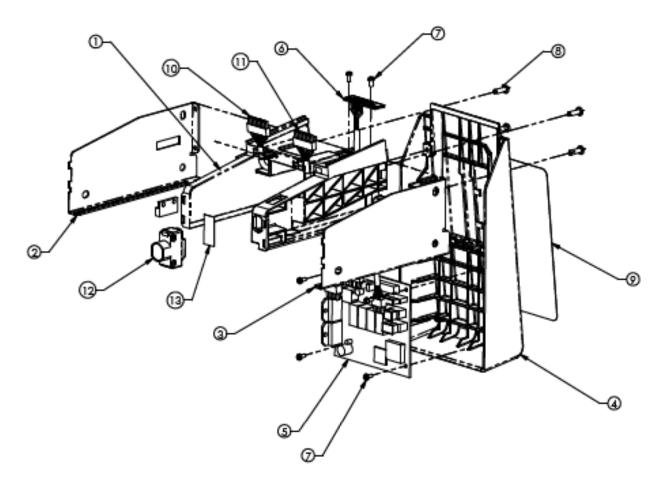




HAND ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	Z HOUSING/HAND ASSEMBLY	1	1144296
2	Z HOUSING ASSEMBLY	1	1133857
3	HAND ASSEMBLY	1	1142445
4	SPRING, DRIVER ASSIST	1	1127303
5	ROLLER GUIDE REPLACEMENT KIT	1	1128060
6	ROLLER GUIDE	1	1157825
7	NYLOCK NUT - 6mm	1	V802235
8	CLAMP MOTOR REPLACEMENT KIT	1	1128061
9	MOTOR, CLAMP AXIS	1	1128800
10	SCREW - 3mm X 12mm - CR FLAT HEAD	2	V802254
11	Z MOTOR REPLACEMENT KIT	1	1128062
12	X-Z DRIVE MOTOR	1	1165872
13	DRIVE WHEEL - Z AXIS	2	1123967
14	FINGER PAD REPLACEMENT KIT	1	1142457
15	GRIPPER - FINGER - GFV	2	1129295
16	PAD - GRIPPER - UPPER/MID	4	1128713



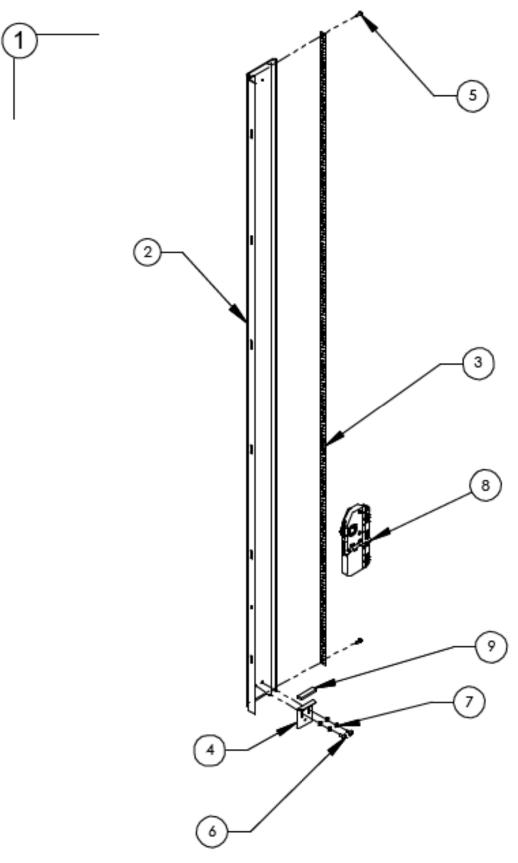


Z HOUSING ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	HOUSING - Z AXIS	1	1128653
2	RAIL - RIGHT	1	1125081-1
3	RAIL - LEFT	1	1125081
4	COVER - BACK	1	1125055
5	PDC CONTROLLER BOARD	1	1133158
6	WIRE ASY, X-MOTOR MATING BOARD	1	1136264
7	TAPPING SCREW - #4 PLASTITE	6	V802186
8	SCREW, #8 - 10 X 1/2" LG	4	V802214
9	DECAL - BACK COVER	1	*
10	HARNESS - HAND - POWER	1	1126309
11	HARNESS - HAND - DATA	1	1126310
12	SENSOR HARNESS ASSY	1	1126113
13	SHIM, FORWARD OPTIC, GFV	1	1131163

^{*} NOTE: WHEN ORDERING THE DECAL - BACK COVER, PLEASE PROVIDE 9-CODE AND STYLE.





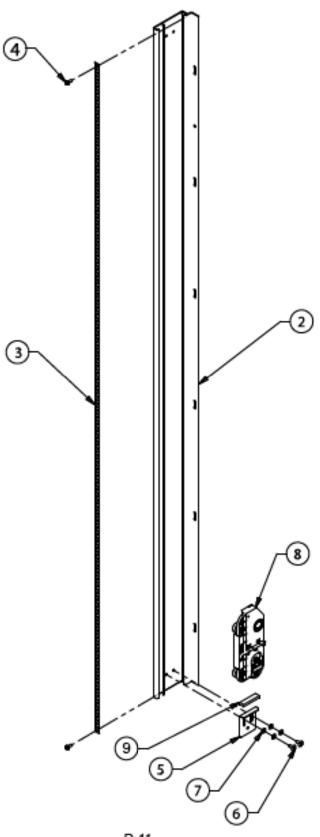


Y RAIL ASSEMBLY - LEFT / HINGE SIDE

ITEM NO	DESCRIPTION	QTY.	PART NO
1	Y-RAIL ASSEMBLY, HINGE SIDE	1	1133419
2	EXTRUSION RAIL - Y AXIS - LEFT	1	1128139
3	STRIP - DRIVE TRACK - Y AXIS	1	1128142
4	BRKT - STOP - Y RAIL	1	1131151
5	8-18 7/16 HEX SLOT STL-ZINC	2	V800586
6	SCREW, #10 - 16 X 3/8	2	V802212
7	WSHR .375 O.D. X .170 I.D.	4	V801455
8	DRIVE CARRAGE ASSY - Y AXIS - LEFT	1	1127863
9	PAD, Y-AXIS STOP, GFV	1	1127935





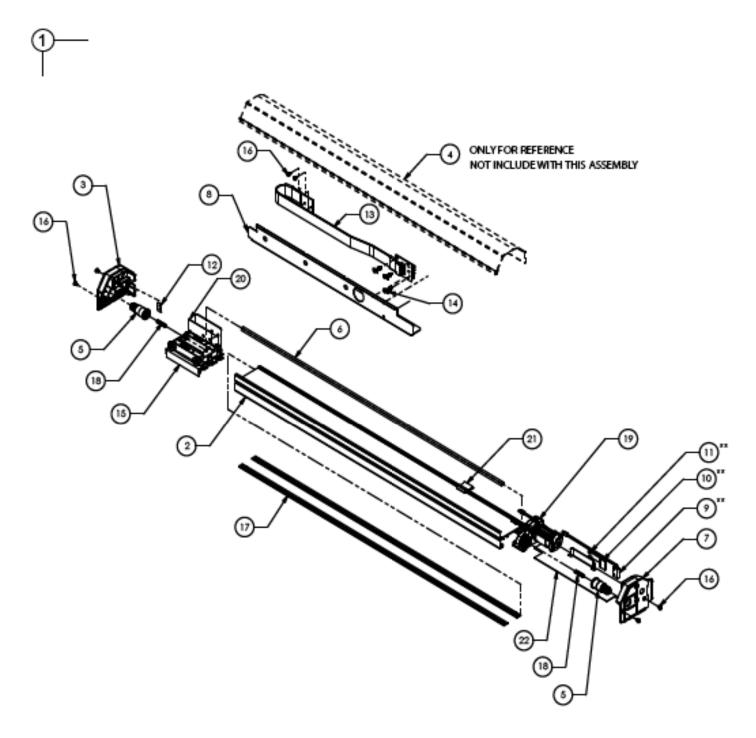




Y RAIL ASSEMBLY - RIGHT / LATCH SIDE

ITEM NO	DESCRIPTION	QTY	PART NO
1	Y RAIL ASSEMBLY, LATCH SIDE	1	1133421
2	EXTRUSION RAIL - Y AXIS - RIGHT	2	1128139
3	STRIP - DRIVE TRACK - Y AXIS	1	1128142
4	8-18 7/16 HEX SLOT STL-ZINC	2	V800588
5	BRKT - STOP - Y RAIL	1	1131151
6	SCREW, #10 - 16 X 3/8	2	V802212
7	WSHR .375 O.D. X .170 I.D.	4	V801455
8	DRIVE CARRAGE ASSY - Y AXIS - RIGHT	1	1127862
9	PAD, Y-AXIS STOP, GFV	1	1127935







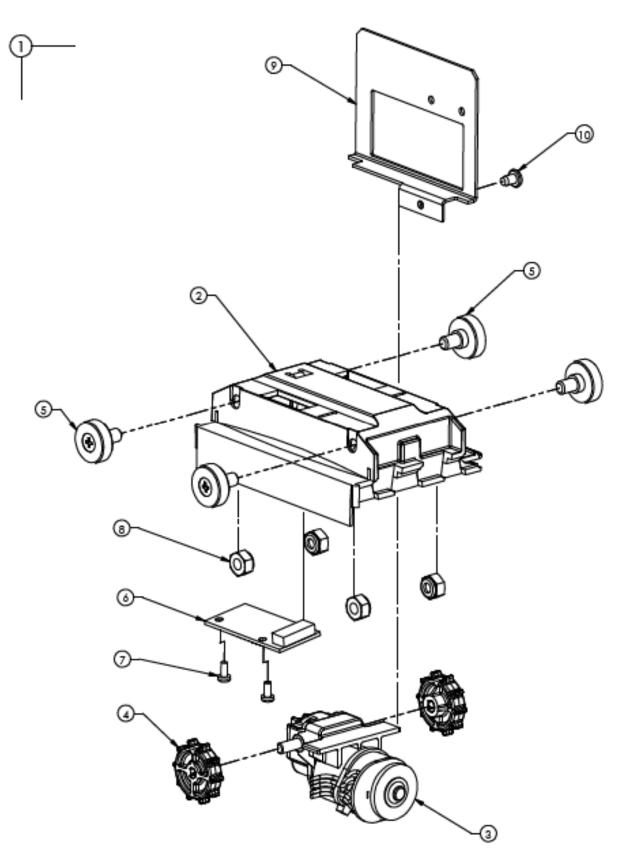
X RAIL ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
	RAIL ASSEMBLY - X AXIS - 41.5"	1	1168241
1	RAIL ASSEMBLY - X AXIS - 34"	1	1168253
2	EXTRUSION RAIL - X AXIS - 41.5"	1	1127460
	EXTRUSION RAIL - X AXIS - 34"	1	1127460-1
3	END CAP, X-RAIL, LH	1	1127536
4*	COVER, TOP, X-AXIS DRIVE, 41.5"	1	1127534
4"	COVER, TOP, X-AXIS DRIVE, 34"	1	1127534-1
5	COUPLING, DRIVE	2	1127331
	SQUARE SHAFT, .25, Y-AXIS, 41.5"	1	1125078
6	SQUARE SHAFT, .25, Y-AXIS, 34"	1	1125078-1
7	END CAP, X-RAIL, RH	1	1127535
8	PARTITION, RIBBON CABLE	1	1126918
9**	REED SWITCH ASY, Y-AXIS	1	1126244
10**	BRKT, RTNR, Y-HOME SWITCH	1	1130821
11**	TAPPING SCREW - #4 PLASTITE	2	V802186
12	PLATE, TAPPING, END CAP	1	1130833
13	RIBBON CABLE ASSY - X RAIL	1	1127463
14	STANDOFF, PCBA, Y-MOTOR	3	1126194
15	CARRIAGE ASSY, X-AXIS, GFV (SEE D15-D16)	1	1133561
16	SCREW, #8-18 X 1/4	6	V800634
17	STRIP - DRIVE TRACK - X AXIS - 41.5"	2	1128446
- 17	STRIP - DRIVE TRACK - X AXIS - 34"	2	1128446-1
18	SPRING, Y-AXIS DRIVE ROD, GFV	2	1126156
19	DRIVE MOTOR, Y-AXIS	1	1165858
20	SHEET, INSULATOR, GFV TRAV BD	1	1126763
21	CLIP, HARNESS, ADHESIVE BACK	1	1030639
22	RTNR, Y-RAIL, X-RAIL ASY, GFV, 41.5*	1	1140474
22	RTNR, Y-RAIL, X-RAIL ASY, GFV, 34"	1	1135983-1

^{*} NOTE: REFERENCE PART TO BE ORDERED SEPERATELY IS NOT INLCUDED WITH THIS ASSEMBLY WHEN ORDER

^{**} NO LONGER USE AFTER NOVEMBER 2007 MODELS BUILT.





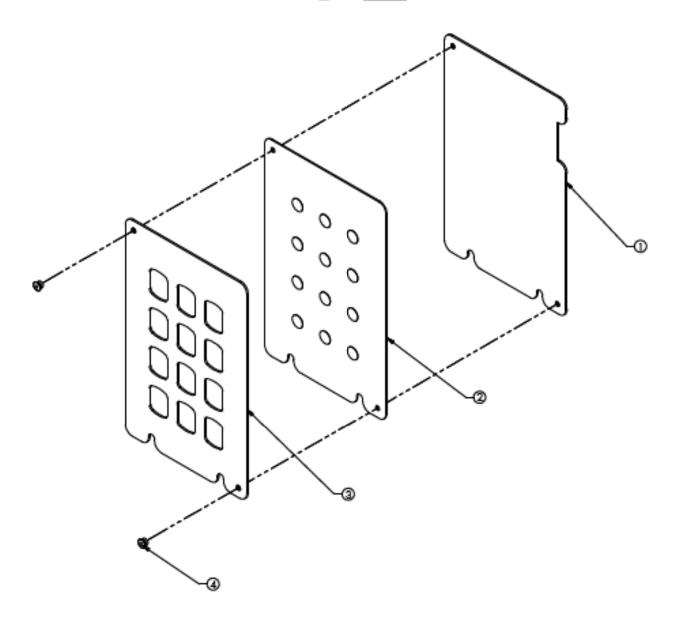
D-15



X AXIS CARRIAGE ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	CARRIAGE ASSEMBLY - Y AXIS DRIVE	1	1133561
2	HOUSING - X CARRIAGE	1	1136215
3	X-Z DRIVE MOTOR	1	1165872
4	DRIVE WHEEL - X AXIS	2	1123961
5	ROLLER GUIDE	4	1157825
6	PC BOARD - CONNECTOR - X CARRIAGE	1	1130675
7	TAPPING SCREW - #4 PLASTITE	2	V802186
8	NYLOCK NUT - 6mm	4	V802235
9	BRKT - FFC CABLE ASSY	1	1130365
10	SCREW, #8 - 18 X 1/4	1	V800634



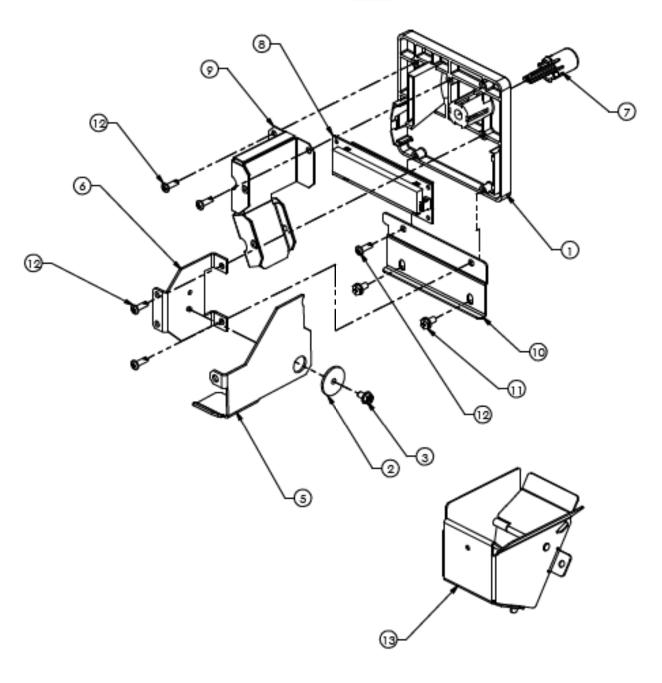


KEYPAD ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	BACKING PLATE, MEMBRANE SWITCH	1	1131035
2	MEMBRANE SWITCH - 12 BUTTON	1	1127318
3	MEMBRANE COVER	1	ж
4	RVT 1/8 STL.POP .063125 GRIP	2	V801412

^{*} NOTE: WHEN ORDERING THE MEMBRANE COVER PLEASE PROVIDE 9-CODE AND MANUFACTURER'S DATE CODE.



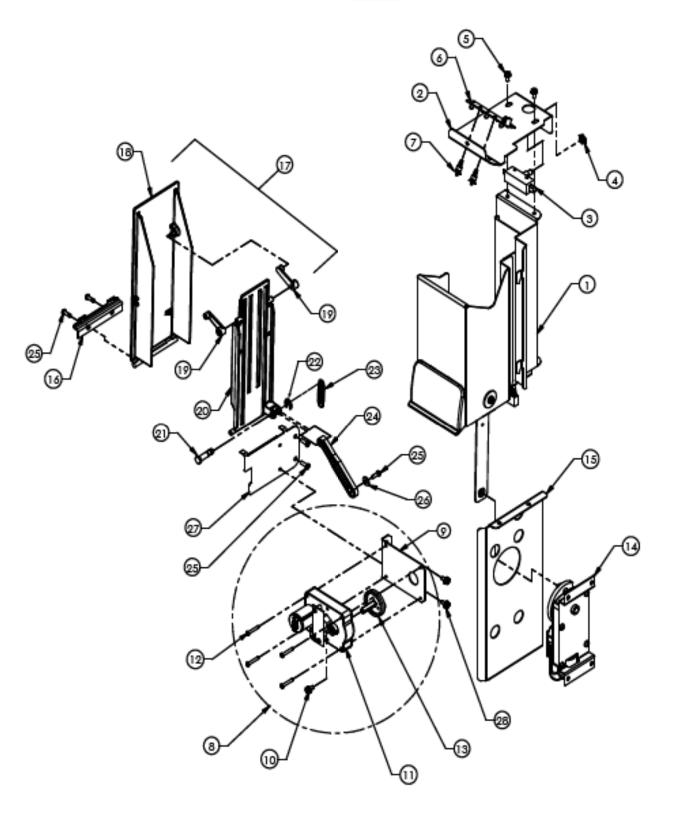




COIN ENTRY & COIN RETURN ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	COIN INSERT, GFV	1	1125367
	LEVER,SCAVENGER ASSY, GFV	1	1133652
2	SHOULDER WASHER,NYLON	1	1122715
3	SCRW 10-16 5/16 B CR HEX TAP	1	V801422
4	(K) SPRING SOLD OUT	1	390326
5	LEVER,COIN RETURN,GFV	1	1131072
6	PIVOT BRKT,COIN RETURN LEVER	1	1131102
7	BUTTON, COIN RETURN	1	1050473
8	DISPLAY, 2X20 SERIAL (LED)	1	1137414
9	COIN CHUTE ASSY, GFV	1	1133638
10	BRKT, COIN INSERT SUPPORT	1	1130509
11	SCREW, #10 -16 X 3/8 B CR HEX STL	2	V801421
12	SCREW, #8-10 X 1/2" LG	5	V802214
13	COIN RETURN CHUTE ASSEMBLY	1	1133936





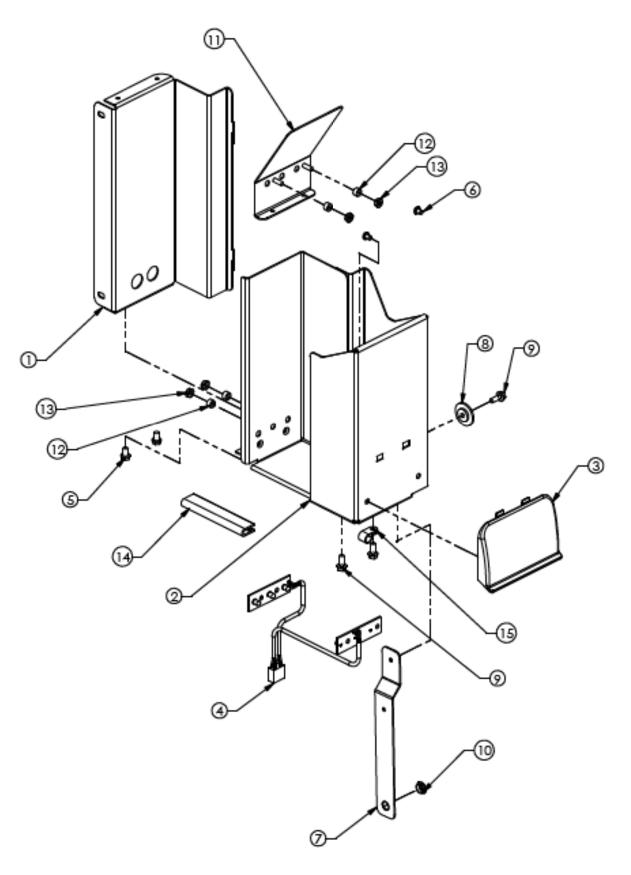
D-20



DELIVERY HOPPER AND FLAP ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	DELIVERY BUCKET ASSEMBLY (SEE D22-D23)	1	1133596
2	COVER PLATE, DELIVERY BUCKET	1	1130546
3	ELECTRIC DOOR SWITCH	1	323007
4	NUT, 3/8-32 X 3/32 HEX	1	V801449
5	SCREW, #10 -16 X 3/8 B CR HEX STL	2	V802047
6	PCBA, HOPPER ILLUMINATION LEDS	1	1130698
7	1/4 NYLON STANDOFF	2	1121740
8	ASSEMBLY, DELIVERY FLAP MOTOR	1	1133407
9	BRKT, DELIVERY FLAP MOTOR MTG	1	1131307
10	SCREW, #10-16 X 5/16 B CR HEX TAP	1	V801421
11	GEAR MOTOR, DELIVERY FLAP	1	1128802
12	SCREW, #8 X 7/8 CR PAN HD	4	V802180
13	CRANK, DELIVERY FLAP MOTOR	1	1128233
14	DELIVERY BUCKET MOTOR	1	1130614
15	BARRIER PANEL, BUCKET MOTOR	1	1131368
16	RETAINER, OUTER FLAP	1	1130455
17	FLAP ASSEMBLY, PRODUCT DELIVERY	1	1128272
18	FLAP, PRODUCT DELIVERY	1	1125871
19	LEVER ARM, DELIVERY FLAP	2	1125873
20	INNER FLAP, PRODUCT DELIVERY	1	1128236
21	PIVOT PIN, INNER FLAP, GFV	1	1128410
22	1/4 E SPG-STL RETAINER RINGS	1	V801077
23	SPRING	1	1126510
24	DRIVE LINK, DELIVERY FLAP	1	1128234
25	SCREW, #8-10X1/2 CR PN THRD CUT 25 ZI	5	V802214
26	WASHER #10 STL PLAIN	1	V801013
27	BRACKET, INNER FLAP RETAINER	1	1139185
28	SCREW, #10-16 X 5/16 B CR HEX TAP	2	V801421





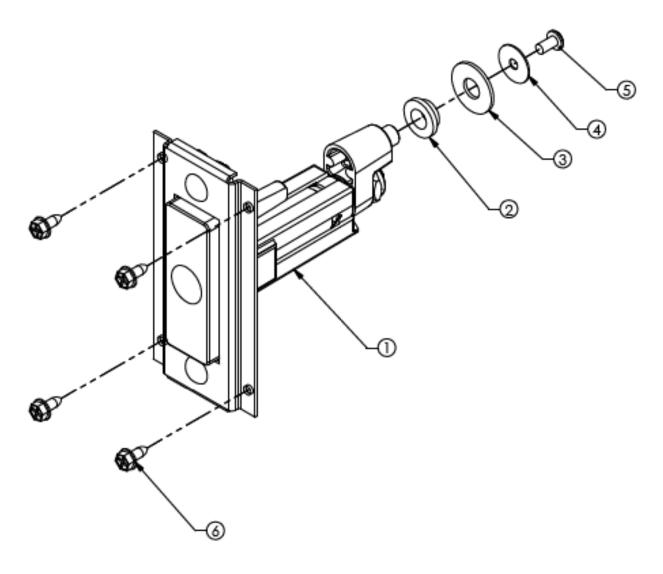
D-22



DELIVERY HOPPER ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	BRACKET, DELIVERY BUCKET MOUNTING	1	1130376
2	BUCKET, DELIVERY	1	1126533
3	FOOTER, DELIVERY BUCKET	1	1128191
4	OPTIC DETECTOR ASSY	1	1130728
5	SCREW, #10-16 X 3/8 B CR HEX STL	2	V802047
6	SCREW, # 8-18 X 1/4	2	V800634
7	LINK, DELIVERY BUCKET DRIVE	1	1131473
8	WASHER, SHOULDER, NYLON	1	1122715
9	SCREW, #10 X 1/2	3	V801422
10	BEARING, NYLINER	1	385603-5
11	PLATE, DELIVERY BUCKET FILLER	1	1130558
12	SPACER, NYLON, #10 SCREW, 3/16"	4	1125765-1
13	NUT, #8 - 32 WITH LOCK WASHER	4	V800956
14	EDGE TRIM BUMPER	1	1127310
15	CLAMP .25	1	324099-3





T-HANDLE LOCK ASSEMBLY

ITEM NO	DESCRIPTION	QTY	PART NO
1	T-HANDLE ASSY, GFV	1	1133778
2	SHOULDER SPACER, LOCK CAM	1	1124527
3	WASHER - 3/8, B PLAIN FLAT	1	V801491
4	WASHER,13/64, LEWIS#24082-200	1	389026
5	SCREW -10-32 X .375, CR PAN H STL MACH	1	V800128
6	SCREW - #10 TAPPING - TYPE A	4	V802141







MAINTENANCE SECTION



MAINTENANCE

The following section is a basic guide for general maintenance and servicing of the vendor. This section is divided into three parts: (I) Preventative Maintenance, (II) Lubrication Guide, and (III) Care and Cleaning.

I. PREVENTATIVE MAINTENANCE SUGGESTIONS:

Whenever a vendor is visited on its site, the following service should be performed. Preventative maintenance will help prevent future problems with the vendor.

- A. Observe the vendor and its surrounding area for any unusual indications of problems (rear of cabinet, obstructions of the air flow, condensate puddles, lamp off, etc.).
- B. Open the door and visually check the inside of the vendor (water accumulation, rust marks, moisture around the edges of the door, etc.).
- C. Check the fluorescent lamp, replace as necessary. Replace lamp within 24 to 48 hours of burnout. This will prevent damage to the ballast. *
- Check the product temperature for proper cooling.
- E. Check the evaporator drain for obstruction; water in the evaporator area must drain to the condensation pan.
- F. Clean the condenser fins.
- Check that evaporator fan runs normally.
- Check that the compressor and condenser fan run normally.
- Investigate any unusual sounds (fan blades hitting something, refrigeration lines rattling, etc.).
- J. Clean coin acceptor.
- K. Check for proper operation of the coinage mechanism by inserting all denominations of coins accepted by the vendor.
- Test the vendor and make a report on the problems.

II. LUBRICATION GUIDE:

Lubricate indicated areas as directed on the chart below.

INTERVALS	PARTS	LUBRICANT
	Door latch slide mechanism & T-handle assembly	Grade two, high low temperature grease

^{*} NOTE: The VUE vendor features a circuit interrupting style ballast. If the lamp is replaced, you must cycle the power to the machine to bring the light back on.



REFRIGERATION OPERATION

The refrigeration operation section is divided into three areas: Basic Refrigeration Principle, Detailed Vending Machine Refrigeration Cycle, and Parts Description.

BASIC REFRIGERATION PRINCIPLE

What a refrigeration system really accomplishes is the transfer of heat. A refrigeration system removes the excess heat from a refrigerated area and then transfers it to a condenser where it is dissipated. As heat is removed, the refrigerated area cools.

In vending machines, large quantities of the heat must be transferred rapidly, economically and efficiently. This process must be able to withstand continuous repetition, without loss of refrigerant, over an extended period. The most common system used in the vending industry is the vapor compression (or simple compression) cycle system. It consists of four basic elements: An evaporator, a compressor, a condenser, and a pressure-reducing device (all part of a sealed system).

The compression system operates at two pressure levels: The low evaporating pressure and the high condensing pressure. The refrigerant acts as the transport medium, in which heat is moved from the evaporator to the condenser; at the condenser, the heat is dissipated into the surrounding air.

The liquid refrigerant changes from a liquid to a vapor and back to a liquid again. This change of state allows the refrigerant to absorb, and rapidly discharge, large quantities of heat efficiently.

BASIC VAPOR COMPRESSION SYSTEM CYCLE:

In the evaporator, the liquid refrigerant vaporizes. This change occurs at a temperature low enough to absorb heat from the refrigerated space. The temperature of vaporization is controlled by the pressure maintained in the evaporator (the higher the pressure, the higher the vaporization point).

The compressor pumps the vapor from the evaporator, through the suction line, and to the condenser. The compressor takes the low pressure vapor and compresses it, increasing both the pressure and the temperature. The compressor pumps the vapor at a rate rapid enough to maintain the ideal pressure. The hot, high pressure vapor is forced out of the compressor, into the discharge line and then into the condenser.

Air is blown through the condenser, allowing heat to transfer from the condenser and into the passing air. As the heat is removed, the stored refrigerant is condensed into a liquid. The liquid refrigerant is stored in the lower tube of the condenser. This is where it flows through the capillary tube back into the evaporator, where the refrigeration cycle is repeated.



DETAILED REFRIGERATION CYCLE

The following is a detailed refrigeration cycle as it applies to the refrigeration system installed in Vendo equipment. (Refer to the flow chart in Figure 1.)

As the air temperature in the cabinet rises, the electronic temperature sensor reports the air temperature to the electronic controller. The electronic controller actuates the refrigeration control relay, which turns on both the compressor and condenser fan motor.

The evaporator fan pulls air from the front of the refrigerated space of the cabinet. It pulls the air through the evaporator, and blows it up the rear of the vend stack. (The evaporator fan runs continuously.) As the air passes through the evaporator, heat is drawn from the air and transferred to the liquid refrigerant. As the cooled air circulates through the vend stack, heat is drawn from the product and transferred to the circulating air. The heated air is again drawn through the evaporator where the heat is removed.

In the evaporator, the liquid refrigerant draws heat from the circulating air. As refrigerant receives heat, it vaporizes.

The compressor pumps the vapor from the evaporator and compresses it, increasing both pressure and temperature. The compressor forces the compressed vapor out, through the discharge line and into the condenser.

The condenser fan pulls air through the condenser. As the hot refrigerant vapor passes through the condenser tubes, heat is drawn from the vapor. This heat is dissipated into the passing air. The air then exits out the back of the vendor. As the refrigerant vapor in the condenser lines is cooled, it returns to a liquid state.

From the condenser the liquid flows to the drier. The drier removes any water and solid particles from the liquid refrigerant.

The cooled liquid refrigerant continues from the drier, through the capillary tube, to the evaporator. The capillary tube steadies the flow rate of the refrigerant. Its small inside diameter allows the pressure in the evaporator to remain low while the pressure in the condenser is high.

The cool refrigerant in the evaporator draws heat from the circulating air in the cabinet. As the temperature in the cabinet drops, the electronic temperature sensor reports the air temperature to the electronic controller. The electronic controller deactivates the refrigeration control relay, which turns off the compressor and condenser fan motor.

When the air temperature in the cabinet rises above the electronic controller's cut in setting, the compressor and the condenser fan engage again.



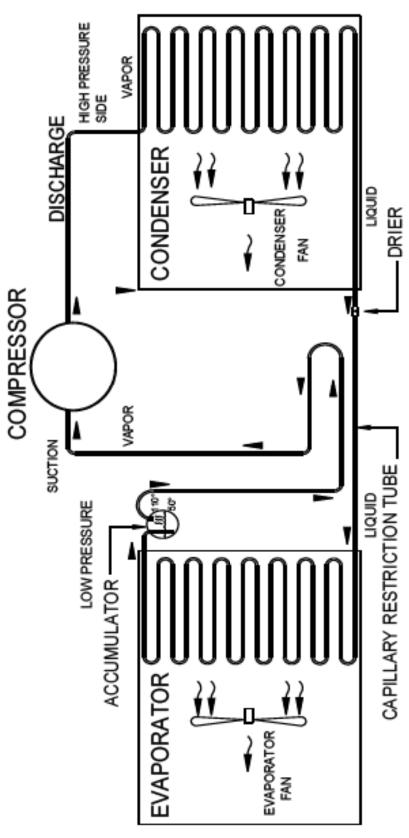


FIGURE 1



REFRIGERATION PARTS DESCRIPTION

The compressor, condenser, drier, capillary tube, evaporator, and accumulator are part of a sealed system (refer to Figure 2). These items are not available separately.

COMPRESSOR

The compressor takes in low pressure vapor and compresses it, increasing both the pressure and the temperature. The hot, high pressure gas is forced out to the condenser. The compressor and the motor that drives the compressor are sealed inside a housing. The compressor, as a unit, is mounted on the refrigeration base. The base is mounted in the bottom of the vendor, outside the sealed refrigeration space.

CONDENSER

The condenser takes heat out of the high pressure vapor that it receives from the compressor. As the vapor passes through the condenser it cools and returns to a liquid state. The condenser is mounted to the refrigeration base near the front of the vendor. It is easily accessible for cleaning.

FILTER/DRIER

The drier is a molecular sieve strainer drier. It removes water and solid particles from refrigerant liquid. One side of the drier is connected to the outlet line of the condenser; the other side is connected to the capillary tube going to the evaporator.

CAPILLARY TUBE

The capillary tube controls, at a steady rate, the flow of refrigerant liquid to the evaporator. It has a very small inside diameter to keep pressure in the evaporator low while the pressure in the condenser is high. It is the connecting link between the condenser and evaporator.

EVAPORATOR

The evaporator is a heat transference device. It removes the heat from the air in a refrigerated space and transfers it to the refrigerant liquid. This liquid evaporates into a vapor and is removed by the compressor. The evaporator is mounted inside the refrigerated space of the cabinet, directly below the delivery chute.

ACCUMULATOR

The accumulator traps any refrigerant liquid, which did not boil off into a vapor before reaching the compressor. The accumulator allows the refrigerant liquid to boil off as a vapor (preventing damage to the compressor). It also prevents suction line sweating. The accumulator is mounted in the suction line on the outline side of the evaporator.



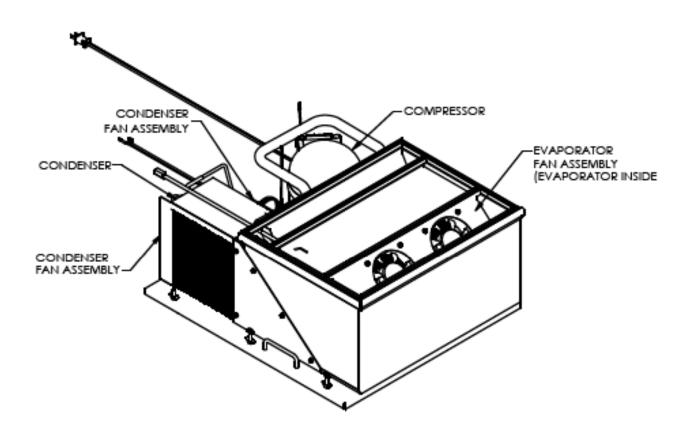


FIGURE 2



The parts listed below are not part of the sealed refrigeration system and are available separately.

START CAPACITOR - P/N: 1122999

The start capacitor is used to increase power during the start. This additional power will help get the compressor running in case there is any back pressure.

STARTING RELAY – INCLUDED IN ASSEMBLY P/N 513506066

The starting relay is mounted in the terminal box on the outside of the compressor under the housing. When the compressor first starts up, the starting relay closes and completes a starting circuit. When the compressor motor reaches operating speed, the starting relay opens and breaks the starting circuit.

THERMAL OVERLOAD SWITCH – INCLUDED IN ASSEMBLY P/N 513506066

The thermal overload switch is mounted in the terminal box on the outside of the compressor under the housing. If the compressor motor gets hot or draws too much current, the thermal overload opens and breaks the starting and running circuit of the motor. As the motor cools, the thermal overload closes, allowing the compressor to restart.

TEMPERATURE SENSOR - P/N 1122924

The temperature sensor is mounted in the inlet airflow of the evaporator. This monitors the air temperature and reports it to the electronic controller so that the controller can operate the refrigeration system via the power box.



NOTES





TROUBLESHOOTING SECTION



PARTS RETURN PROCEDURES

- All parts returned must be accompanied by a material return tags (P/N 1122825) Tag must clearly state the reason for the return and the Return Goods Authorization Number received from your Vendo Customer Service Rep at 1-800-344-7216. (Return tags are available from our parts department upon request).
- All parts should be properly wrapped and packed securely to avoid further damage.
- To replace an inoperative part, please use the following instructions
- Complete the return tag making sure to fill in ALL requested information to ensure prompt processing.
 Keep top (white) copy for your records. Attach tag to inoperative part and send it by the most inexpensive
 method of transportation (Federal Express Ground or Overnight Transportation) To: SandenVendo
 America, Inc., 10710 Sanden Drive, Dallas, Texas 75238.
- Be sure to check (
) the box marked "credit" and to fill in the invoice number covering the part sent to
 you or check the box marked "replace with like part".
- If the box is marked for replace with like part, a like part will be shipped at no charge if our inspection shows that the inoperative part became defective during the warranty period.
- If the box is marked for credit, a credit will be issued to cancel the invoice on which the replacement part was shipped. This credit will include any applicable prepaid transportation charges. To receive credit the inoperative part must be returned within 30 days from the date the replacement was shipped.
- Vendo does not issue cash credit for the return of any part or accessory.

REFRIGERATION UNIT RETURN PROCEDURE

- All refrigeration units returned must be accompanied by a material return tag (P/N 1122826). Tag must clearly state the reason for the return and the Return Goods Authorization Number received from your Vendo Customer Service Rep at 1-800-344-7216. (Return tags are available from our parts department upon request).
- All refrigeration units should be properly wrapped and packed securely to avoid further damage.
- To replace an inoperative part, please use the following instructions.
- Complete the return tag making sure to fill in ALL requested information to ensure prompt processing.
 Keep top (white) copy for your records. Attach tag to inoperative part and send it by the most inexpensive
 method of transportation (Federal Express Ground or Overnight Transportation) To: SandenVendo
 America, Inc., 10710 Sanden Drive, Dallas, Texas 75238.
- Be sure to check (☑) the box marked "credit" and to fill in the invoice number covering the part sent to you or check the box marked "replace with like part".
- If the box is marked for replace with like part, a like part will be shipped at no charge if our inspection shows that the inoperative part became defective during the warranty period.
- If the box is marked for credit, a credit will be issued to cancel the invoice on which the replacement part was shipped. This credit will include any applicable prepaid transportation charges. To receive credit the inoperative part must be returned within 30 days from the date the replacement was shipped.
- 8. Vendo does not issue cash credit for the return of any refrigeration unit.

*Canadian and International customers please contact your Customer Service Representative for return instructions



The VUE 30/40 vendor provides self-diagnostics to aid you in the trouble shooting process. Error codes are stored in the controller's memory when a system error is sensed. These codes can be accessed in the Diagnostic section of The VUE 30/40 vendor provides self-diagnostics to aid you in the trouble shooting process. Programming.

The trouble shooting section contains Error Codes (version 15) and General Machine Troubleshooting.

Error Codes (version 15)

ERROR	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
Vanding Machanism .	3	Roand	
X-mothor Jam		System Check If unit does not move, check the LED in the lower left hand side of PDC. It should be a constant red light. If LED is not our unplug machine, check fuse on power darbubon panel. Check two pin power connector in bottom of door. Check connection to board on X reli. Check power destruction in PDC. Check power supply connectors in power distribution panel. Check LED on power supply in power distribution panel. Check fuse on power supply in power distribution panel. Check fuse on power supply in power distribution panel.	Replace fuse(s) (fneossary. Plug in machine. Complete a testivend cycle.
		If unit has not returned to the home position, check to see if hand is jammed on tray or other item in cabinet.	Crear jam, unplug machine, wat 5 seconds and plug machine back in. If hand goes back home after auth recovery, run X motor in Test Motors. Complete a test vend cycle. If hand does not go home in X, replace X motor.
		If unit has returned to the home position, hand jammed but was able to recover. Check product positions to determine if any are sold out with product still in column.	Complete a test vend cycle of sold out products. If hand hits tray in X , adjust X home position.
Y-motor Jam	Y motor portion of vending mechanism did not start or	Preform System Check, see X-Midor Jam.	Replace fuse(s) if necessary. Plug in machine. Complete a testivend cycle.
	COMPINE	If unit has not returned to the home position, check to see if hand is jammed on tray or other Item in cabinet.	Clear jam, unplug machine, welt Seconds and plug machine back in. If hand goes back home after auto recovery, run Y motor in Test Motors. Complete a test vend cycle. If hand does not go home in Y, replace Y motor.
		If unit has returned to the home position, hand jammed but was able to recover. Check product positions to determine if any are sold out with product still in column.	Complete a test vand cycle of sold out products. If hand hits tray in Y, nun Discovery 2.
Z-mctor Jam	Z motor portion of vending mechanism did not start or	Preform System Check, see X-Mdor Jam	Replace fuse(s) if necessary. Plug in machine. Complete a testivend cycle.
	complete.	If unit is extended in Z check Z housing ribbon cable to be sure it is plugged in.	Unplug machine. Plug in Z housing ribbon cable. Plug machine back in. If hand goes back home after auto recovery, run Z motor in Test Motors. Complete a test vend cycle.
		If product is inhand, look to see if product is stopping the hand from closing.	Remove productfrom hand. Unplug machine, wait Seconds and plug machine back in. If hand goes back home after auto recovery, run Z motor in Test Motors. Complete a test vend cycle.
		If unit has returned to the home position, hand jammed but was able to recover. Check product positions to determine if any are sold out with product still in column.	Complete a test vand cycle of sold cut products. If hand hits tray front, run Discovery 2. If hand jams on center gate, reduce Z Product Position by 3 encodings.
Clamp-motor Jam	Clamp motor portion of vending mechanism did not	Preform System Check, see X-Mdor Jam	Replace fuse(s) if necessary. Plug in machine. Complete a testivend cycle.
	start or complete.	Look at clampfingers to see if only partially open.	Clemp motor has failed. Replace clemp motor.



ERROR DE	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
Jam - Recovered	The unit encountered a jam condition while vending. It was able to recover from the jam and return to home. The user was requested to select a new product.	Check product positions to determine if any are sold out with product still in column.	Complete a test vand cycle of sold cut products. If hand hits tray front, run Discovery 2. If hand jams on center gate, reduce Z Product Position by 3 encodings.
Faled Movement	This is a non jam failure. A motor function failed to complete.	Depends on movement attempted. If Discovery, check reflectors.	Check Motors Movement in Test Mode and regular Vending. Check all Sensors under Check Sensor Status. Install any missing reflectors.
X-Rail Not Lave	During a Discovery 2 operation, the X rail was higher on one side by more than 1 inch.	Undugmachine. Move the X rail manually to the center of the machine opposite a shelf. Close the door. Look along the bottom of the rail at the trays. Determine which side is higher.	Remove the X-rail cap. On the latch side of the machine, release the Y gear coupling. Move the X-rail down until it is level. Recheck. Fun Discovery 2.
FLO Always On	During a larget esench operation, the Forward Looking Optic (FLO) was found to be always active.	Test Flo with a comercute reflector piece. The device has two lights. The green light should be on. When the reflector is in front of the Flo, the second light should change from off to crange. Check reflectors along latch side trays. FLO may have only seen the shelf 4 reflector during scan. Verify X. Home aligned with latch side reflectors.	If the green fight is off, check the plug on the PDC. If the orange light does not turn on and off replace the PLO assembly. If the Flo does turn on and off replace the PDC board.
FLO Always Off	During a larget esends operation, the Forward Looking Optio (FLO) was found to never activate.	Check power on the PLO device. The green light should be on Test Flo with a comercube reflector place. When the reflector is in front of the Flo, the second light should change from off to change. May not have seen any reflectors on latch side. Check reflectors along latch side trays.	If the green fight is off, check the plug on the PDC. If the orange light does not turn on and off, replace the Flo assembly. If the Flo does turn on and off replace the PDC board. Make sure door properly closed.
Missing Coordinates	During a Discovery operation, an expected, required tray	 Check reflectors on top shelves. Check all reflectors on latch and hings side trays are installed. 	install any missing reflectors.
	reflector was not found	Check power on the FLO device. The green light should be on liest Flo with a comercube reflector piece. When the reflector is in front of the FLO, the second light should change from of to orange. Check top and boftom shelves are properly sealed on the base metal.	If the green fight is off, check the plug on the PDC. If the crange light does not turn on and off, replace the PLO assembly. If the Flo does turn on and off replace the PDC board. Reseat tray firmly in shelf.
MissingTray	Used in Discovery 3 and 4. A required tray is missing on the top or bottom shelf.	Check at reflectors on top and bottom shelves.	Install any missing reflectors.
Shelf end: Msmaboh	During a Discovery operation, the number of shelves in the latch side did not match the shalves on the opposite side of the machine.	Check at tray positions. Make sure each tray has a comer-cube reflector in the center tray pocket. Check at side trays are fully seated in shelves.	Replace any missing tray reflectors. Run Discovery 2. Reseat tray firmly in shelf. Run Discovery 2.
Shef Not Level	During a Discovery operation, one or more shakes was found to vary in position more than 1 inch from the hinge side to the latch side.	Check all tray positions. Make sure each tray is fully seated on the shelf.	Recent bay firmly in shelf.



ERROR DE	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
Faled Communication	PDC failed to communicate with VMC.	Chack at harnessing between PDC and VMC.	Unplug machine. Reset any loose pins in hamesses. Roseatrosest hamess plugs. Plug in machine
		Check LED's on PDC. Lower right hand light should have heartbeat. Green heartbeat = PDC not receiving communication from VMC. Orange heartbeat = PDC both receiving and branes biting communication. Red heartbeat = PDC blocked communication. Red heartbeat (LED of or solid color LED) = PDC not operating. If no heartbeat (LED of or solid color LED) = PDC not operating. If no heartbeat, check PLO power indicator (should be solid green).	If Green or Orange hear beat, check MDB communication cable connections as above. If Red heartnest, PDC has logic error. Unplug machine, wait 5 seconds and plug machine back in. If no heartnest, LEDD soff and Flo power indicator is of, the PDC if no heartnest, LEDI soff and Flo power indicator is of, if the VMC is powered, check the MDB cables. If no heartnest and the Flo power indicator is on a problem with the software flash drip may be likely. Replace the flash drip. If this does not fix the problem, replace the PDC.
Faled Unknown	An error occurred that did not conform to any known error.	Check all harnessing between PDC and VMC.	Unplug mathine. Reed any loose pins in hamesses. Resestresed hamess plugs. Plug in machine
		Check LED's on PDC. Lower right hand light should have heartbeat. Green heartbeat = PDC not receiving communication from VMC. Orange heartbeat = PDC both receiving and bransmiting communication. Red heartbeat = PDC obsert communication. No heartbeat (LED of or solid color LED) = PDC not operating. If no heartbeat, check Flo power indicator (should be solid green).	If Green or Orange hear beat, check MDB communication cable connections as above. If Rad heartbeat, PDC has logic error. Unplug machine, wat 5 seconds and plug machine back in. If no heartbeat, LEDIs off and Rio power indicator is of, the PDC does not have power. Check the heartbeat on the VMC. If he VMC is powered, oheck the MDB cables. If no heartbeat and the Rio power indicator is on a problem with the software flash drip may be likely. Replace the flash drip. If this does not fix the problem, replace the PDC.
		Run Vending motors in Test Motor. Check hastith of sensors in Test Mode Check Sensors.	Unplug machine. Replace any malfunctioning motors or sensors. Plug the machine back in.
			Rebod the machine. If problem exists, change the PDC and VMC software.
Setup Flash Write Failed / Setup Flash Write Failed	Changes to the configuration could not be stored in PDC's FLASH chip.	Reboot the machine.	 (In factory), If never able to program PLASH, the FLASH may be misconfigured (Fujibu chip has Sector 7 protect on) Pandom Faiture: Cald reboot GFV and try again. PLASH chip has faited or worm out (after many thousands of uses). Replace PLASH chip with new. The FLASH chip holds the activate, so it is the PDC activate only. Don't forget to save relevant parts of PDC's carification. If PLASH dhip change does not work (try more than once, using care to install chip without damage), there may be a faiture in the PDC cloudry. Replace PDC board.
Faled Conformation	Discovery 1 scanned the latch side of the GPV and the shelves discovered do not match those stored in FLASH.	Machine wil automatically perform Discovery 2	Run Discovery 2. If no changes were made to the trayschelves in GPV, may indicate a missing reflector.
Inappropriate Command	Test/Corfig Mode command received while not in Test/ Corfig Mode. Ex Test Motors command received while the machine is verding.	PDC will automatically ignore the inappropriate command.	



CORRECTIVE ACTION					Run Discovery 2 before performing Calibration or Corrections.	Run Test Motors and Get Sensor Status after performing the checking me hod.		Plug in hopper flap connector. Run Test Hopper Flap in Test Mode. If middor moves, current detection of cultry has been damaged on VMC. Replace VMC board.	If motor does not move, replace Happer Flap motor. Remove the product. Run Hopper Flap Test.
CHECKING METHOD	The MDB command received PDC will automatically ignore the command. Is inappropriate for the current state of the PDC. Ex example, if the Vend Drop command were the hard is not waiting at the hoper to drop a product during a Vend, Startup, or Recovery.	PDC will automatically ignore the command.	VMC will refry sending the command to PDC	PDC will automatically ignore the command.	Performing Calbrations / Set Z corrections without rurming discovery can lead to this error.	1.Check to see if the X, Y, Z or Camp movements are performed. On Exit from Test Motors the X,Y, Z and dampshould be at home position. 2.Check the Serieors. (O denotes good sensor. If the sensor is blocked - then change the respective sensor.)		Check Hopper Rephamess connection. Run Tost Hopper Flap in Test Mode	Run Test Happer Flap in Test Mode Chack to see if product is jamming the Flap
DESCRIPTION OF ERROR CODE	The MDB command received is inappropriate for the current state of the PDC. Ex example, if the Vend Drup command were received when the hand is not waiting at the hopper to drup a product during a Vend, Starbup, or Recovery.	Test/Corfig Mode command received while already executing a Test/Corfig command.	Test/Corfig Mode command received that is either an invelid command number or has a perameter that is cut of range for that parameter.	A command was rejected because it is unsafe. A Test/Corfig Z Movement command was rejected because the PDC thinks the hand is in the pocket at the bottom of the machine.	Test/Corfig commands that have a shelf number as a parameter can refurn this error for a shelf number, while in range, which identifies a shelf that does not exist (was not found during discovery).	1.When any one of the folloing movements in X, Y, Z or Clamp fail during liest Motors. 2. When any of the sensors fails, (i.e. X, X, Z, Clamp or Forward Looking Optios Sensors)	- VMC Error	Hopper flap mdor either did not run, or no current was detected.	VMC detected high current while running the Hopper Flap motor without detecting the Hopper flap positioning switch
ERROR DE	Command Out of Sequence	Command in Progress	Command Data Out of Range	Command Denied Safely	Shelf invalid	TCFaled Movement	Vending Mechanism - \	Hop. Flap No Current	Hopper Flap Jam



ERROR DE	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
Hop. Buck No Current	Hopper Bucket motor ei her did not nun, ar no current was	Check Hopper Buckethamess connection.	Plug in hopper bucket connector. Run Test Hopper Bucket in Tast Modil.
	detected.	Run Tast Happer Buoket in Test Mode	if indor moves, current detection circuitry has been damaged on VMC. Replace VMC board.
Hopper Flap Jam	VMC detected high current white running the Hopper Bucket.	Run Tost Happer Busket in Test Mode	If mator does not move, replace Happer Busiet mator.
		Check to see if product is jamming the Bucket	Remove the product. Run Hopper Bucket Test.
Hopper Flap Switch	Hopper flap motor runs but does not detect the home switch.	Run Test Hopper Flap in Test Mode	Foepkace hopper flap motor assy.
Hopper Bucket Switch	Hopper bucket moor runs but does not detect the home switch.	Run Test Happer Bucket in Test Mode	Replace the hopper bucket motor assy.
Selection Switches - K	-Keypad		
Stuck Selection SW an Keypad	Bad Selection Switch - Selection switch within the Keypad is actuated for more than 15 seconds while in the Customer Mode or Door Open Sales Test Mode.	Check the selection switch number shown in the detailed error code "hiff to see it." 1) if the Keypad is defective; 2) the harmess is wired wrong/shorted.	Try to correct the problem if one of the two tems are found. If you can't correct it, hen replace the component in question.
Coin Changer			
Coin Communication	Changer communication error no changer communication	Chack that red light is flashing on control board.	If light is not flashing, there is no power to board. Check and replugany unplugged connections.
	for more than 2 seconds.	Chackfuse on the power distribution panel.	If hase is blown replace it.
			Replace transformer.
		Delec ive acceptor.	Replace acceptor.
Tube Sensor	Tube sensor is defective reported by charger.	Check changer tubes for blodkage	Clear tube blockage. If no blockage is found, replace changer.
Coin inlet	Changer inlet chute blocked - no cdins sensed for over 96 hours by the changer.	Check intel chule for blockage. Drop coins in Sales Mode or Tube Fill Mode to test acceptance. Manually clear the error.	Clear inlet drube blockage. If no blockage found, replace changer. If acceptance rate is acceptable, system is OK. If acceptance rate is low or changer will not accept ocine, replace changer.
Tube Jam	Tube pay out Jam – reported by changer.	Check changer tubes and payout for blockage.	Clear blodeage, if found. If no blookage is found, replace changer.
Coin Read Only Memory	Changer check sum incomect	Undugmaching wait at least five seconds, replug machine.	If error does not clear, replace changer/acceptor.
	перспес ву спапрет.	Membersy carest and error	Replace acceptor
Excessive Escrow	Excessive escrow requests –	Chack escrow lever and associated mechanisms.	Manually dear the lever and error.
	more than 250 requests and the last coin was sensed.	Close door than reopen. Check to see if error still occurs.	Replace changer/acceptor.
Coin Jam	Coin jam - reported by changer	Chack changer/acceptor for jammed odins or other obstructions.	If no obstructions are apparent, replace charger/acceptor
Low Acceptance	Low acceptance rate – odin acceptance has fallen below 80%	Chack changer/acceptor for obstructions or dit	If no obstructions are apparent, and acceptance appears to be OK, this may be an indication of dreating attempts.
		Drop coins test acceptance.	If no obstructions are apparent and coins do not accept, or acceptance rate is poor, replace changer/acceptor.



ERROR DE ER	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
AcceptDisconnect	Discorneded acceptor – indicates that an acceptor is unplugged	Check cdin mechanism pluga. Check for faulty hamess witing (see witing diagram for circuit).	Correct connections.
Routing	Coin routing - indicates a odn was routed incorrectly.	Verify acceptor set-up using manufacturer's recommendations.	If acceptor was set up correctly, replace acceptor.
Dollar Bill Validator			
Bit Validator Communication	Bill validator communications - No bill validator	If changer or card reader is being used, check for 100° or 10° errors.	If there are no 'CC' or 'TC' enois: 1) Check bil acceptor hamess; 2) Replace bil acceptor if there is a 'C' or 'TC' end: 1) Check control
	communication for 5 seconds.	Turn off door switch and wait at least five seconds. Turn on door switch.	board MDB harness.
Bill Valdator Full	Bill validator full - reported by validator (STACKER command).	insure bill cashbox is empty and that the cashbox is properly dosed and in place.	If cashbox appears to be OK, replace bit acceptor.
Bil Valdator Mobr	Bill validator motor is reported as defective by validator.	Notestavalable	Replace bill acceptor
Bill Validator Jammed	Bill jammed – reported by validator.	Check bil valdator for obstructions or dirt.	If no obstructions are apparent, replace bill validator.
Bit Valdator ROM	Bill validator check sum is incorrect.	Turn power switch off. Wait at least five seconds. Turn power ewitch on. Manually clear the error.	If emor does not clear, replace bill acceptor
Bill Validator Open	Bill validator is open.	Check that bill cashbox is closed and in correct position.	If cashbox appears to be OK, replace bill acceptor.
Bill Validator Sensor	Bill validator sensor is not fundioring.	Check bil valdstor for obstructions or dirt.	If no obstructions are apparent, replace bit validator.
CardReader			
Card Reader Communication	There is no oard reader communication for 5 seconds.	Fourd reader bill acceptor is being used, checkfor "rC" or "bC" errors.	If there is no "rC" or "bC" error: 1) Check changer hamess. 2) Replace changes.
		Turn power switch off. Wait at least five seconds. Turn power switch on	If there is a "rC" or "bC" emor: 3) Check control board MdB hamess.
Card Feader	Most recent 'non-transient error' from the card reader.	Notestavalable	Refer to card reader manual for corrective action.
Refriger ation			
Temp Sensor	The temperature sensor is defective or unplugged.	Check to see that temperature sensor hamess is plugged into door hamess at air dam area.	If the sensor is unplugged, redugit.
		Check for temperature sensor cornection $\mathcal F$ on control board is plugged in	If the comedion is unplugged, replug it.
Compressor	System has failed to decrease temperature 1° per hour while the compressor is rurning.	Check refrigeration settings (refer to refrigeration section of programming manual).	Change settings as required.
		Check if evaporator is frozen.	Check seal around caldinet.
		Verify everporator fan is running.	Check hamess to fan indor and check output vollage.
Miscellaneous Problems	ns		
Door Switch	Outer door has been open for more than one hour.	Chack the vendor's door switch to see if it's sticking or miswired.	Replace the door switch, if defedive.



ERROR DE	DESCRIPTION OF ERROR CODE	CHECKING METHOD	CORRECTIVE ACTION
Ram Bror	Ram check sum for service mode settings aboved in non- volatie memory has been compited	No best available.	If emor shows up frequently, replace the control board
ACLOW	AC voltage to the controller is less than 20Vms for more than 30 seconds.	Chack for low voltage at the wall outlet at unit start-up.	Contact a qualified electrician.
Scale	Scaling Factor error - one of the credit peripherals has introduced a scaling factor that is not compatible with the current configura ion.	Check the connections of changer hamess; make sure changer is Make corrections to hamess or replace the changer if necessary plugged in and working.	Make corrections to harmess or replace the changer if necessary.
Inlet Sensor	Machine's cdn hiet sensor is blocked for more than 1 minute.	Chack changer harnassing for out, pinchad or orthoed wires.	Replace harmesses or changer.
Escrow Return Mech.	3 successive coins are detected at the hist but do not make it into the changer in 10 seconds.	Check intet for blockage. I'mothing is found, check changer harnessing for cut, phiched or crimped wines.	Clear blodkage or replace harmess or charger.

Vendo

	General Machine Troubleshooting	eshooting
ERROR	PROBABLE CAUSE	CORRECTIVE ACTION
COIN ACCEPTANCE/PAYOUT (Record all errors	ons for reference if Vendo Technical Service is required)	d)
Coin mechanism will not a coept coins.	No power to control board.	Check to make sure the red LED on the control board is flashing red. If flashing, check MDB hamess connections. If connections are good, replace changer.
	Hamess from coin mech to board is cut or disconnected.	Use a meter and check each wire for continuity and ground.
	Short in coin mechanism.	Replace coin change na coeptor.
	Acceptor is dity or other problem may exist (not funed).	Clean acceptor or contact your local coin mech dealer.
	Defective control board.	Replace control board.
No acceptance or rejects a percentage of good coins.	Coin return lever pressing down on acceptor's coin plunger.	Make sure changer is mounted correctly and the coin return lever is in the proper position.
	Acceptor is dity or foreign matter is in the path.	Clean acceptor or contact dealer.
	Coin changer is improperly tuned (if tunable).	Contact manufacturer for tuning.
	Defective controller board.	ReplaceNest controller.
Always accepts coins but gives enations credit.	If NO CREDIT. Defective hamess between coin mech and control board (will have "CC" error).	Check harness for cut vires or wrong/bad connections. Test each wire for continuity or best to ground. If found to be defective, replace.
	IFERRATIC OR NO CREDIT. Acceptor or coin mech.	Replace coin mech and test.
	If NO CREDIT: Defective controller.	Replacebest controller.
Changer will not payout coins.	Defective harness between coin mech and control board.	Test vendor's manual coin payout. If vendor won't pay out using the Coin Payout mode or during sales, check hamess for cuts, bad confinulty or wrong connections. If defective, replace and test.
	Defective coin mech.	Replace coin mech and test.
	Defective controller board.	If coin mech won't payout coins manually in the Coin Payout mode or during the Sales Mode and the above two procedures have failed, replace the control board and test payout both in the Coin Payout mode and during a sale.
	Changer payout buttons are disabled while door is closed or while in Open-Door Sales Mode.	Enter the Service Mode or access the Coin Payout Mode.
BILL ACCEPTANCE		
Bill Acceptor will not pull bill in.	No power to validator.	Unplug power. Wait for 10 seconds. Reconnect power and see if bill acceptor cycles. If not, check acceptor harnessing or replace the bill acceptor.
	Acceptance disabled by coin mech (if present), or bed hamessing.	Make sure that the coin mech is plugged in (accepts coins) and that the coin tubes have enough coins to enable bill acceptance.
	Coin mech is not operative.	Make sure that the changer hamessing is correctly connected and has continuity. Repair or replace if necessary.
	Replace acceptor and test.	If acceptor accepts, bill acceptor was defective.



ERROR	PROBABLE CAUSE	CORRECTIVE ACTION
Bill acceptor takes a bill but does not establish credit.	Defective acceptor hamess (credit not geiting from acceptor to control board through the harness).	Make sure that the acceptor and hamessing is correct for your style of a coeptor and it is plugged in and wired properly.
	Defective acceptor:	ReplaceNest acceptor.
	Defective controller.	Replacebest controller.
ikes a bill and credits but not	Defective bill a coaptor.	Replace acceptor and test acceptance and erasure of credit.
erasing credit.	Defective controller.	ReplaceNest controller for erasure of credit.
	Both vend sensors are defective	Replace vend sensor.
Acceptor takes a bill and allows payback of coins without a selection.	Controllers configurations not set properly.	Access vendor configuration mode and check the "Forced Vend" setting.
VENDING PROBLEMS		
Hand not in home postion	Communication error between VMC and PDC or PDC software error	Cycle power to unit. Start-up routine should begin.
Hopper is open	Vend optics blocked	Enter Test Mode check Vend Detection (see service manual). Cycle power to unit. Strat-up routine should begin Relipace/Test vend optics.
No vend upon selection.	No power or communication to hand.	Check for lights on hand. Left side red light (motor power) right side flashing (logicpower/ communication). If no light than check MDB connection on VMC.
Hand not aligned correctly to tray when vending.	Tray orshelf out of position (not seated). Tray table in the PDC not present or correct.	Reseat tray or shelf. Run calibration #1 then #2.
X-rail not moving, product in hand.	Vend flap motor umpluged or intage broken.	Test vend flap in Test Mode. Replace if broken.
Completely sold out while product is still in the column.	Product pusher not functioning	Check to see if product pusher is engaged.
MISCELLANEOUS PROBLEMS		
Door will not close completely.	Hand assembley hiting the lower blukhead. Tri-Teq lock system is in the locked position.	Reposition y-rail stops and check y-home magnet. Open Tri-Teq lock, check for damage to lock side.
Display shows sold out immediately upon pressing selection button of full column (sold	Door switch wired incorrectly or cultiplinched.	Manually press door switch. If still not vending, check witing or replace door switch.
out not clearing).	Defective control board.	If door switch is replaced and still reading sold out, replace control board.
Vendor appears dead; no digital display and no lights.	Defective main harness.	If red light on control board is off, check fuse and transformer.
No digital display; vendor lights on.	Defective display or display hamess.	Chock display and display hamess. Replace if necessary.
	Check for a flashing red fight on control board.	If no fight, replace control board.
Vendor scrolls message on display but does	Changer out of tune.	See "Tuning Changer".
not accept money.	Defective changer.	Replace changer.
	Defective controller board.	Replace control board.
Vendor accepts money but does not display	Defective changer.	Replace changer.
credit.	Defective controller board.	Replace board.



ERROR	PROBABLE CAUSE	CORRECTIVE ACTION
Vendoraccepts and credits money but does	Defective selection switch.	Replace switch.
not vend (does not indicate a sold-out).	Defective selection switch harness.	Repair or replace harness.
	Defective controller board.	Replace board.
REFRIGERATION		
Refrigeration unit will not run.	Defective temperature sensor.	1. Chack connection.
		2. Replace temperature sensor.
	Defective control board.	Replace board.
Refrigeration unit will not run at all.	No power to vendor.	Check power supply, also check service cord connections.
Unit will only run in the compressor relay test mode. (Located under Test Mode)	Defective cabinet switch.	Open and close the door to make sure lights and fan come on. If not, then check the cabinet switch.
	Defective temperature sensor.	Follow the same steps detailed above about the temperature sensor.
	Wait the 3 minute delay once the cabinet door is closed.	Wait to see if unit comes on.
	Defective control board.	if unit still does not come on, then replace the control board.
Unit will not run in the compressor reby test mode. "NOTE: Leave the compressor relay test mode on, in order to check for voltage.	Defective control board.	Unplug unit at power distibution panel. Remove air dam. Reconnect power. Enable compressor relay through Test Mode. Check 2-pin connection on power distribution for 110V.
	Дересало ва въ	Upon opening the cabinet door, the lights and fans should shut off. If they don't, replace the cabinet switch.
Refrigeration unit runs constantly.	Defective cabinet switch.	Upon opening the door, the display should read either errors, summary sales, or none. If it does not, then replace the cabinet switch.
	Defective control board.	Replace control board.
	Defective relay - confacts are welded together.	Replace relay.
Compressor will not start.	Overload protector inoperative.	Check overload (apply insulated jumper across terminal, if compressor starts, replace overload).
	Defective cabinet switch.	Check for error codes. Replace cabinet switch.
Compressor will not start, condenser	Defective over load relay	Replace the over bad relay.
fan motor running - unit hot (power to commission).	Compressor motor rocked	Replace the refer unit.
	Defective capacitor	Replace the capacitor.
	Defective PTC relay	Replace the PTC relay.
Compressorstarts but does not run.	Loss of refrigerant	Replace the refrigeration unit.
	Smashed tubings and capillary	Replace the refrigeration unit.
	Defective over load relay	Replace the overload relay.



ERROR	PROBABLE CAUSE	CORRECTIVE ACTION
essorruns but cabinet temperature	Loss of refrigerant	Replace the refrigeration unit.
Warrn.	Smight beings	Replace the refrigeration unit.
	Defective drainage	Make sure the drain hose is not kinked or clogged.
	Defective temperature sensor	Replace the temperature sensor.
	Poorairflow	Make sure nothing is skting in front of the evaporator.
	Defective control board	Replace the control board.
	Defective door seal	Make sure the vend flap and gasket are not open.
	Defective heat exchange on condenser/ Blocking air Cl flow by dust, lint or fins damage	Clean the surface of the condenser fins or straighten the bent fins.
Both compressor and condenser fan motors will not operate.	Bad refrigeration control relay.	Test relay using relay test function of the electronic controller. Replace relay if necessary.
	Bad connection at power board.	Check wiring corrections. Make corrections if necessary.
Evaporator frosted over.	Loss of refrigerant	Replace the refrigeration unit.
	Smarked tubings	Replace the refer unit.
	Defective drainage	Make sure the drain hose is not kinked or clogged. Re-install hose correctly if kinked or clogged.
	Defective temperature sensor	Replace the temperature sensor.
	Defective control board	Replace the board.
	Poorsealing	Check gasket, vend flap, and permagum on the builthead.
Product feezing up (too cold).	Temperature setting too low.	Adjust set point in control board.
	Defective temperature sensor	Replace the temperature sensor.
	Defective control board	Replace the control board.
Excessive noise.	Fan blade hitting shroud or transformation or bose fitting	Replace the fan blade or re-install correctly.
	From the inside of fan motor or loose fitting	Re-install or replace the motor.
	he inside of compressor or loose fitting	Replace the refrigeration unit.



NOTES



Space to Sale Programming Instruction



General Note:

Space to Sales is a feature that enables the vendor to rotate the products to be vended. This ensures the vendor dispenses the products in the FIFO (first in, First out order). The programming section allows the operator to connect different selections together. The options for Space to Sales are tabulated under the STS Option table.

Col.# 0/1	Col.# 2/3	Col.# 4/5	Col.# 6/7	Option#	Description
00	00	00	00	0	Disable STS
XX	XX	XX	XX	1	Connect All Selection in a shelf
XX	00	00	00	2	Connect Selection 0 / 1
00	XX	00	00	3	Connect Selection 2 / 3
00	00	XX	00	4	Connect Selection 4 / 5
00	00	00	XX	5	Connect Selection 6 / 7
XX	XX	00	00	6	Connect Selection 0 / 1 / 2 / 3
00	00	XX	XX	7	Connect Selection 4 / 5 / 6 / 7
XX	YY	00	00	8	Connect Selection 0 / 1 and 2 / 3 separately
XX	00	YY	00	9	Connect Selection 0 / 1 and 4 / 5 separately
XX	00	00	YY	10	Connect Selection 0 / 1 and 6 / 7 separately
00	XX	YY	00	11	Connect Selection 2 / 3 and 4 / 5 separately
00	XX	00	YY	12	Connect Selection 2 / 3 and 6 / 7 separately
00	00	XX	YY	13	Connect Selection 4 / 5 and 6 / 7 separately
XX	YY	ZZ	00	14	Connect Selection 0 / 1, 2 / 3 and 4 /5 separately
XX	YY	00	ZZ	15	Connect Selection 0 / 1, 2 / 3 and 6 / 7 separately
XX	00	YY	ZZ	16	Connect Selection 0 / 1, 4 / 5 and 6 / 7 separately
00	XX	YY	ZZ	17	Connect Selection 2 / 3,4 / 5 and 6 / 7 separately
XX	XX	00	YY	18	Connect Selection 0 / 1/2/3 and 6/7 separately
XX	XX	YY	00	19	Connect Selection 0 / 1 / 2 / 3 and 4 / 5 separately
XX	00	YY	YY	20	Connect Selection 0 / 1 and 4 / 5 / 6 / 7 separately
00	XX	YY	YY	21	Connect Selection 273 and 4/5/6/7 separately
XX	XX	YY	ZZ	22	Connect Selection 0 / 1 / 2 / 3, 4 / 5 and 6 / 7 separately
XX	YY	ZZ	ZZ	23	Connect Selection 0 / 1 , 2 / 3 , 4 /5/6/7 separately
XX	YY	ZZ	ww	24	Connect Selection 0 / 1, 2 / 3, 4 / 5 and 6 / 7 separately
00	XX	XX	00	25	Connect Selection 2 / 3 / 4 / 5
XX	XX	YY	YY	26	Connect 0 / 1 / 2 / 3 and 4 / 5 / 6 / 7 seperately

STS - Options Table

WW, XX, YY, ZZ - Denotes shelves that can be connected.

For example:

For Shelf 1 - Option 1: The products are rotated sequencially between Selections: # 10, #11, #12 through Selection # 17 until all selections in shelf #1 are sold out.

For Shelf 1 – Option 12: The products are rotated seperately between Selections: [#12 and #13] and [#16 and #17].

For Shelf 1 – Option 22: The products are rotated serperately between Selections [#10 through #13], [#14 and #15], and [#16 and #17].

To choose Space to Sales for another shelf – choose the option for the shelf that needs to be connected.

Programming Space to Sales:

In the service mode, Press button '2' to scroll to "Space to Sales'

Press '4' to enter.

Press '2' to scroll to the desired shelf number.

Press '4' to enter. The STS options will blink

Press '2' to choose the desired option number.

Press '4' to set the STS.

You can repeat the above procedures to different shelf.

Please note:

- Setting STS option will set the price of the all connected selection number to the highest price within the group. The price will change after the selection is made for the group connected.
- STS count will reset to first selection in the group after door-open / door-close or power reset.

NOTES:

