G-III

with KO Programming Operation and Service Manual



Manufactured by



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TABLE OF CONTENTS

SAFETY SEGMENT	5
SECTION 1: General Information	7
Vender Identification	
Factory-Refurbished Energy Star® 2 Venders	7
SECTION 2: Set-Up and Installation	8
Four-Button Programming	
KO Programming Flowchart	
Code Levels	.10
Error Display Mode (Eror)	. 10
External Menu	. 11
Internal Menu	. 12
Coin Payout Mode (CPO)	. 12
Tube / Stack Fill Mode (tUFL)	. 12
Recycler Pay Out (rPO)	. 12
Test Vend Mode (tESt)	. 12
Password Protection (PASS)	. 13
Cash Counter Display Mode (CASH)	. 13
Vend Counter Display Mode (SALE)	
Card Counter Display Mode (CArd)	. 13
Token Counter Display Mode (toKn)	
Free Vend Accounting Mode (FrEE)	
Selection Price Setting Mode (PrIC)	
Space-to-Sales Programming Mode (StS)	
Machine Configuration Mode C1-C11 (Con)	
Correct Change Only Control Mode (CCOC)	. 18
Preview Data Password Mode (PrEU)	. 18
Language Selection Mode (LAnG)	
Time/Date Setting Mode (tinE)	
Lighting Control Mode (Lit)	
Refrigeration Control Mode (rFrG)	
Block Selection 1 and 2 (bLCI & bLC2)	
Discount Setting (dISC)	
Manual Switch Over-Ride (OUEr)	
Set Selection Depth Mode (SdEP)	
Remote Vend Mech. Routine (rUnd)	
Return To Sales Mode (rtn)	. 29
SECTION 3: Vender Component Explanation	
Door Switch	
Delivery Chute Sensor	
Selection Switches	
Low Voltage Transformer	
Vend Rack Assembly	
Vend Rack Components	. 30

TABLE OF CONTENTS (Continued)

The Electronic Refrigeration Cycle	31
SECTION 4: Vend Sequence of Operation	33
Vend Sequence	
Sold Out	
SECTION 5: Maintenance	35
Controller Board Layout	35
What To Adjust	
What To Clean	
Lighting Maintenance	36
Troubleshooting	
Refrigeration Flow Chart	
SECTION 6: Optional Equipment	48
Kits for Vending Additional Packages	
Hand-Held Computer (HHC)	
External MIS Plug	
Light Kit	48
Heater Kit	48
Override Key Switch Kit	48
U-Hinge Retrofit Kits	48
Enclosed Coin Cup Kits	48
T8 Electronic Ballast Retro Kit	
Evaporator Fan Kit (Energy Efficient)	
Section 7: Parts Catalog and Exploded Views	49

SAFETY SEGMENT

ROYAL VENDORS' COMMITMENT TO SAFETY

Royal Vendors is committed to safety with all of our product designs. We are committed to notifying the user of a possible danger involving the improper handling or maintenance of our venders. The servicing of any electrical or mechanical device involves potential dangers, both to those servicing the equipment and to users of the equipment. These dangers can occur because of improper maintenance or usage. The purpose of this safety segment is to alert everyone servicing Royal equipment of potentially dangerous areas, and to provide basic safety guidelines for proper upkeep.

The service manual contains various warnings that should be carefully read to minimize the risk of personal injury. This manual also contains service information to ensure that proper methods are followed to avoid damaging the vender or making it unsafe. It is also important to understand these warnings provide general guidance only. Royal could not possibly know, evaluate, or advise of all of the conceivable ways in which service might be done. Consequently, Royal cannot predict all of the possible dangerous results. These outlined safety precautions are the basis for an effective safety program. Use these safety measures, along with the service bulletins, helpful hints and product specification sheets, when installing or servicing Royal equipment.

We recommend that persons servicing our equipment maintain a similar commitment to safety. Only personnel properly trained should have access to the interior of the vender. This will minimize the potential dangers that are inherent in electrical and mechanical devices. Royal has no control over the vender once it leaves the premises. It is the owner or lessor's responsibility to maintain the vender in a safe condition. See installation insert located in the coin box of a new vender for proper installation procedures and refer to the service manual for recommended maintenance procedures. If you have any questions, please contact the Technical Services Department at 1.800.931.9214.

SAFETY REGULATIONS

- Read the safety segment before installation or service.
- Test for proper grounding before installing to reduce the risk of electrical shock and fire.
- Turn off or disconnect power cord from wall outlet before servicing.
- Only fully trained service technicians should service vender when vender has power.
- · Remove any product before moving a vender.
- Use appropriate equipment when moving a vender.
- 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 vender.

SECTION I: ELECTRICAL HAZARDS GENERAL ADVICE

Careless or improper handling of electrical circuits can result in injury or death. Anyone installing, repairing, loading, opening, or otherwise servicing a vender should be aware of this precaution. Apply all of the normal precautions when handling electrical circuits, such as:

- Refrigeration servicing to be performed by qualified personnel only.
- · Unplug the vender before servicing
- · 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 of the correct size.
- All electrical connections must be dry and free of moisture before applying power.

WARNING:

ALWAYS TEST TO VERIFY PROPER GROUNDING PRIOR TO INSTALLATION IN ORDER TO REDUCE THE RISK OF ELECTRICAL SHOCK AND FIRE.

SAFETY SEGMENT

SECTION II: ELECTRICAL HAZARDS

A. Servicing with "Power Off"

For maximum safety, unplug the power cord from the wall outlet before opening the vender door. This will remove power from the equipment and avoid electrical hazards. Service personnel should remain aware of possible hazards from hot components although electrical power is off.

B. Servicing with "Power On"

Some service situations may require access with power on. Only fully qualified service technicians should perform power-on servicing. 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 important to maintain maximum clearances from both moving parts and live circuits when servicing.

WARNINGS:

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

- 2. LIGHTING CIRCUITS CAN BE HAZARD-OUS. ALWAYS DISCONNECT VENDER FROM THE WALL OUTLET BEFORE REPLACING A BULB OR SERVICING THE VENDER IN THAT AREA.
- 3. NEVER USE A HOSE, PRESSURE WASHER OR ANY CLEANING METHOD THAT COULD WET ELECTRICAL COMPONENTS. SEE CLEANING SECTION OF MANUAL FOR SUGGESTED CLEANING METHODS. IF WATER CONTAMINATION OF ELECTRICAL COMPONENTS IS SUSPECTED, USE QUALIFIED ELECTRICAL TESTING EQUIPMENT AND TEST METHODS TO ASSURE THAT VENDER IS NOT A HAZARD BEFORE APPLYING POWER FOR ANY REASON.

SECTION 1: General Information

Specifications

Model	804	660	
Height	79.5" (202 cm)	72" (183 cm)	
Width	37" (94 cm)	37" (94 cm)	
Depth	34" (86.5 cm)	34" (86.5 cm)	
Empty Weight	653 lbs (296 kg)	536 lbs (243 kg)	
Operating Voltage	115 VAC, 60 Hz		
Amperage Rating	9 Amp (Econo-Cool systems) 12 Amp (older venders)		
Refrigerant Charge (R134a)	6.5 oz (0.18 kg) (Econo-Cool) 5.25 oz (0.15 kg) (older venders)		
Construction	Steel cabinet, steel rack		
Capacity	804 cans (12 oz)	660 cans (12 oz)	

Vender Identification

VENDER SERIAL PLATE — The vender's main serial plate (*shown in Figure 1.1*) is located on the exterior left side of the vender's main door and has the following information:

- Vender model code
- Vender serial number
- Amps required by the vender
- Unit charge of R134a
- Refrigeration design pressures

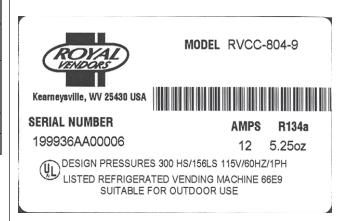
The vender's model code contains useful information: the machine type, such as RVCC (Royal Vendors CocaCola); the model number, such as 804; and the number of selections.

The vender's serial number contains several important pieces of information as well. The serial number currently in use consists of the following:

- The first four numbers represent the year the vender was produced;
- The fifth and sixth digits represent the week within that year the vender was produced;
- The first letter represents the style of the vender;
- The second letter represents the location where the vender was built; and
- The last five digits represent the number of that vender built within that week.

REFRIGERATION SERIAL PLATE: The refrigeration serial plate is located on the front of the vender's refrigeration unit, mounted on the kick plate. It looks similar to the vender serial plate with the exception that the model number specified is the refrigeration unit model. There is currently one model in use:

ModelCompressor sizeUsage8000Super 1/3 HorsepowerAll GIII



Factory-Refurbished Energy Star® 2 Venders

Venders that have been refurbished by Royal Remanufacturing LLC, a subsidiary of Royal Vendors, may be reconfigured to meet Energy Star Tier 2 standards. These venders will have a second identification plate on the vender's main door adjacent to the vender serial plate. This second plate includes the vender's model number (ending in "ES," to denote Energy Star compliance), the date of refurbishment, and the Energy Star logo, as shown below. Energy Star is a government-led program to promote energy-efficient products. All venders built for use in the USA and Canada since April 2004 are Energy Star-compliant. Since May 2007, these venders are now Energy Star Tier 2-compliant, which denotes an even greater level of energy efficiency.



MODEL RVCC 660-9ES

DATE 01/27/09



Four-Button Programming

All programming of the vender options is done in the Service Mode. To enter the Service Mode, open the vender door, and press and release the Service Mode Button, which is located on the control board. (*See Figure 2.1.*)

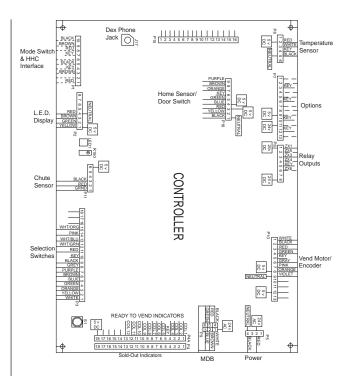
The first four selection buttons are used to navigate through the service routines as follows:

Button	Meaning	Usage
1	ABORT	Escape, exit, cancel
2	UP	Increase, next
3	DOWN	Decrease, previous
4	ENTER	OK, accept, save

The controller will automatically return to the Closed-Door Mode if:

- 1. No response from the selection switches is received within approximately five minutes;
- 2. The service mode button is pressed a second time; or
- 3. The "rtn" function is activated.

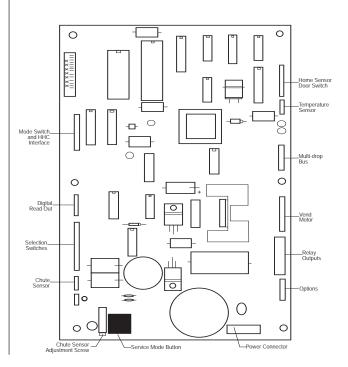
If the door is closed, the controller will return to the Sales Mode. If credit exists, the credit amount will be displayed after returning to the Sales Mode.

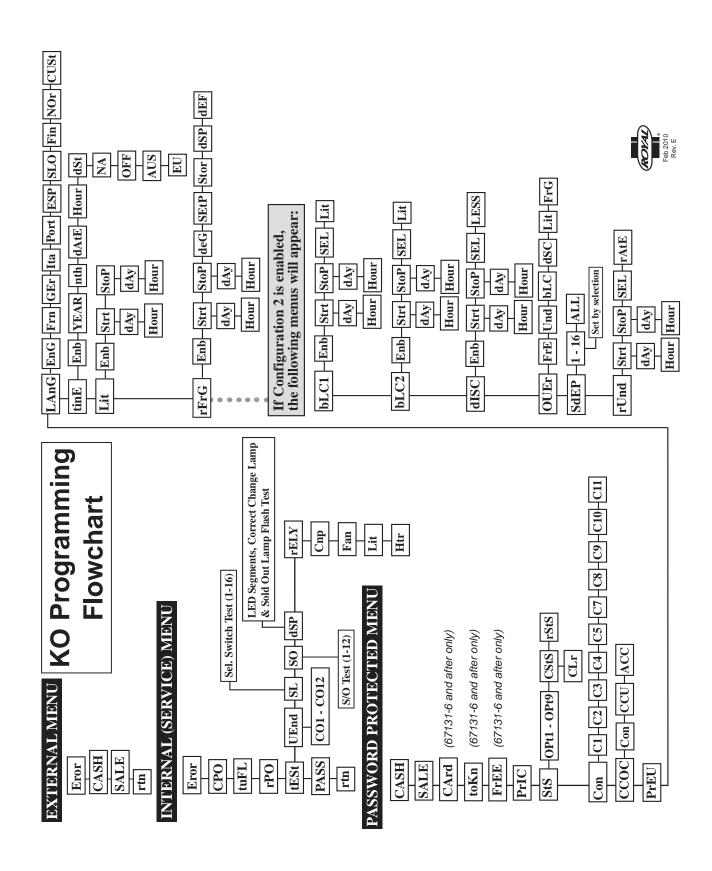


KO Controller (above)

Figure 2.1

EVS Controller (below)





Code Levels

Individual modes are identified by their codes as follows:

CODE	DESCRIPTION
Eror	Error Display Mode
CPO	Coin Payout Mode
tUFL	Tube Fill Mode
tESt	Test Vend Mode
PASS	Password Protection
rtn	Return to Sales Mode
• CASH	Cash Counter Display Mode
• SALE	Vend Counter Display Mode
 CArd 	Card Vend Counter Display Mode
• toKn	Token Vend Counter Display Mode
• FrEE	Free Vend Counter Display Mode
• PrIC	Selection Price Setting Mode
• StS	Space to Sales Programming Mode
• Con	Machine Configuration Mode
• CCOC	Correct Change Only
• PrEU	Preview Data Password Mode
• LAnG	Language Selection Mode
• tinE	Time/Date Setting Mode
• Lit	Lighting Control Mode
• rFrG	Refrigeration Control Mode
• bLC1*	Block Selection Mode
• bLC2*	Block Selection Mode
• dISC*	Discount Setting Mode
OVEr*	Manual Switch Over-ride Mode
• SdEP*	By-selection Setting Mode
• rUnd*	Remote Vend Mechanism Routine
rtn	Return to Sales Mode

- * If optional features (C2 under Con Menu) are disabled, these menus will not appear, and will not apply. The exception to this rule is SdEP which will not appear, but will still apply.
- Code level modes preceded with a "•" are considered sensitive to incorrect setup procedures. Therefore, they can only be accessed after a predefined and unchangeable password has been entered via the selection switches. Once the password has been entered, all functions will be available. "PASS" will be displayed only if the password has not been entered. Otherwise the function codes will be displayed as listed above.

The password is entered via the first four selection switches while the controller is displaying "PASS." The password must be entered within 10 seconds in the following order: 4-2-3-1. The display will go blank after the first selection switch is pressed. After completing the sequence, press (ENTER). If the password is not recognized, the display will remain blank but will reappear if no buttons are pressed.

Code Level Explanation



ERROR DISPLAY MODE

If (ENTER) is pressed at the "Eror" prompt, the controller will enter the error

display mode. If no errors have occurred since the last error reset, the display will show "nonE." If an error has been detected since the last error reset, the display will show the first error summary code that has occurred. **EXAMPLE:** "CJXX" would indicate a column jam error.

If (ENTER) is pressed, the controller will display the detailed error for the summary code. (UP) and (DOWN) will cycle through any remaining error detail codes. If the (ABORT) is pressed while displaying any *detailed* code, the controller will return to the summary code. If the (ABORT) is pressed while displaying any *summary* code, the controller will return to the code level.

If (ENTER) is pressed and held for two seconds during the display of a detailed error code, that error will be cleared. If other currently accessed detailed errors exist, the next error will now be displayed. If no other errors of this type exist, the next error summary code will be displayed, or "nonE" if no other errors exist.

Vend Mechanism Error "UEnd"

The "UEnd" prompt indicates that at least one vend mechanism error has been detected. If the (ENTER) is activated, the controller will display:

"CJxx" Indicating a column jam error.

"CS" Chute sensor is active for more than 5 mins.

"hS" Indicating a home sensor error.
"EC" Indicating an encoder error.
"rE" Indicating a "rabbit" error.

If more than one detailed error is presented, they may be viewed using (UP) and (DOWN) . These errors are cleared via the HHC or Service Mode.

Control System Error "Ctrl"

After the "Ctrl" prompt, the controller will display:

dS Indicating a door switch error.

RaM Indicating RAM error. ACLo Indicating low AC.

SF Indicating a scaling factor error. IS Indicating an inlet sensor error. Ib Indicating the inlet is blocked.

Selection Switch Error "SEL"

After the "SEL" prompt, the controller will display "SSXX" where 'XX' indicates the selection switch has been active for more than 15 seconds while in the sales mode.

Space to Sales Error "StS"

After the "StS" prompt, the controller will display "UAXX" where 'XX' represents the column which is not assigned to a selection.

Coin Changer Error "CHAr"

After the "CHAr" prompt, the controller will display:

"CC" Indicating a changer communications error.

"tS" Indicating a tube sensor error.

"IC" Indicating an inlet chute blocked error (no coins sensed in the acceptor for over 96 hours).

"tJXX" Indicating a tube jam error (where 'XX' indicates the tube number).

"CrCH" Indicating a changer ROM checksum error.

"EE" Indicates excessive escrow.

"nJ" Indicating a coin jam.

"LA" Indicating a low acceptance rate.

The "CC" error is cleared when proper communication is established. The "CSF" error is cleared upon power up or via the HHC or service mode. The "IC" error is cleared when a coin is accepted. All other "CHAr" errors are reset via the HHC or Service Mode, or when the condition causing the error no longer exists.

Bill Acceptor Error "bUAL"

After the "bUAL" prompt, the controller will display:

"bC" Indicating a bill communication error.

"bFuL" Indicating a full bill stacker.

"biLL" Indicating a defective motor.

"bJ" Indicating a bill jam error.

"brCH" Indicating a bill acceptor ROM checksum error.

"bOPn" Indicating an open cash box.

"bS" Indicating a sensor error.

The "bC" error is cleared when proper communication is established. The "bS" error is cleared upon power up, via the HHC or the service mode. The remaining errors are cleared whenever the validator reports no errors and is enabled (the validator is "enabled" when it accepts money).

Card Reader Error "Crdr"

After the "Crdr" prompt, the controller will display:

"CrC" Indicating a card reader communication error.

"Crxy" Indicating an error number reported by the card reader, where 'x' is a hexadecimal digit representing the card reader code and 'y' is a hexadecimal digit representing the manufacturer-specific sub-code.

Refrigeration Error "rFrG"

After the "rFrG" prompt, the controller will display:

"SEnS" Indicating a temperature sensor error.

"CoLD" Indicating temperatures 3° F (1.5° C) or more below the compressor cut-out setting.

"Hot" Indicating cabinet temp. is above limit.

"CnPr" Indicating that the compressor is not cooling within 30 minutes of turning on.

"Htr" Indicating the heating system has failed to increase 1° F (0.5° C) per hour while heater is on.

"PULL" Indicating an inability to reach the set point temperature.

The "CoLD" error is cleared when the temperature rises above three degrees below cutout. The "Hot" error is cleared when the temperature drops to the set point. The "SEnS" error is cleared when a sensor is detected. The "PULL" error must be manually cleared. The remaining "rFrG" errors can also be cleared via the HHC or service mode.

External Menu

Access the External Menu by entering your 4-digit password (factory set 4-2-3-1), when the main door is closed.

The External Menu contains:

Errors (Eror)

Cash Counts (CASH)

Sales Counts (SALE)

Return (rtn)

Note: Use the Preview Data Password Mode (PrEU) under the password protected menu to display or change the current external password.

Internal (Service) Menu



COIN PAYOUT MODE

If (ENTER) is pressed at the "CPO" prompt, the controller will enter the coin

payout mode and display the lowest coin value that can be paid out. Using (UP) or (DOWN) will allow the operator to cycle through the coin values that are routed to the coin tubes. If (ENTER) is pressed, a payout of the displayed value will be made. Coins will continue to payout as long as (ENTER) is held down. If (ABORT) is pressed at any time, the controller will return to the "CPO" prompt. Press the (UP) button to proceed to the next prompt "tuFL".



TUBE / STACK FILL MODE

If (ENTER) is pressed at the "tuFL" prompt, the controller will enter the coin

tube and bill stack fill mode. In this mode, the operator is allowed to deposit any coin that is routed to a tube or any bill that can be stacked. The tube or stack inventory level will be displayed after each coin or bill is accepted. If (ABORT) is pressed at any time during this operation, the controller will return to the "tuFL" prompt. Press the (UP) button to proceed to the next prompt, "rPO" (67131-13 and higher) or "tESt" (67131-12 and lower). NOTE: This is the only method of loading the tubes or stack that ensures exact cash accountability. Software revisions 67131-12 and lower will not work with the validator stacker.



RECYCLER PAY OUT

(software revisions 67131-13 and

higher only)

If (ENTER) is pressed at the "rPO" prompt, the controller will enter the bill payout mode by displaying the lowest bill value that can be paid out. Pressing (UP) will increase the display to show the next higher bill value, if any; pressing (DOWN) will decrease the display to show the next lower bill value or wrap around. Pressing (ENTER) when a particular bill value is displayed will pay out the displayed bill type. All bills dispensed in this mode are counted in the MIS manual dispense mode counters. Pressing (ABORT) while a bill value is displayed will return the controller to the "rPO" prompt. Use (UP) to proceed to the next prompt, "tESt."



TEST VEND MODE

If (ENTER) is pressed at the "tESt" prompt, the controller will enter the

test vend mode. Using (UP) or (DOWN) will allow the operator to toggle between the following modes:

"VEnd" Column Vend Test

"SL" Selection Switch Test

"SO" Sold Out Test (per column)

"dSP" Display Test

"rELY" Relay Test- (CnP, FAn, Lit, Htr)

Column Vend Test "UEnd"

If (ENTER) is pressed at the "UEnd" prompt, the controller will enter the column vend test mode. The display will show "CO 1", which represents "column 1". Pressing (UP) and (DOWN) cycle through the available columns. If (ENTER) is pressed, the controller will attempt to vend a product from the displayed column. Vends made while in this routine will affect only the test vend counters. If (ABORT) is pressed at anytime during this operation, the controller will return to the "UEnd" prompt. Press the (UP) button to proceed to the next prompt "SL".

Selection Switch Test "SL"

If (ENTER) is pressed at the "SL" prompt, the controller will enter the selection switch test mode. The display will show "SL 4", which indicates that the fourth selection switch was pressed last. When any selection switch is pressed, it will be represented by the right two digits. The last selection switch pressed will remain on the display until the service mode timer expires or the (ABORT) button is pressed and held for two seconds, this will return the controller to the "SL" prompt. Press the (UP) button to proceed to the next prompt "SO".

Sold Out Test "SO"

If (ENTER) is pressed at the "SO" prompt, the controller will enter the sold out test mode. The display will show "C 1X", which represents column one, if X is (0) column one is not sold out and if X is (1) column one is sold out. Pressing (UP) and (DOWN) cycles through the available columns. Pressing the (ENTER) button has no action. Pressing (ABORT) button will return the controller to the "SO" prompt. Press the (UP) button to proceed to the next prompt "dSP".

Display Test "dSP"

If (ENTER) is pressed at the "dSP" prompt, the controller will enter the display test mode. The display, correct change only light and sold out light will run a diagnostic test until service timer expires or if the (ABORT) button is pressed. Press the (UP) button to proceed to the next prompt "rELY".

Relay Test Mode "rELY"

If (ENTER) is pressed at the "rELY" prompt, the controller will enter the relay test mode by displaying "CnpX." If (ABORT) is pressed in this mode, the user will return to the "rELy" prompt. Using (UP) or (DOWN) will allow the operator to toggle between the following modes:

"CnP" Compressor Relay

"FAn" Evaporator Fan Relay

"Lit" Light Relay
"Htr" Heater Relay

If (ENTER) is pressed at the "CnPX" prompt, the controller will enter compressor relay test. If X = (0) the relay is not activated and if X = (1) the relay is activated. Pressing (ENTER) will toggle the display between "0" and "1."

For all relays

X= 1 relay is activated;

X=0 relay is not activated.

Pressing (ABORT) at the "rELy" display will bring you out to "tESt". Press the (UP) button to proceed to the next prompt "PASS".

Password Protected Menu

PRSS

PASSWORD PROTECTION

"PASS" will be displayed only if the password has not been entered. Otherwise

the function codes will be displayed as listed under the Code Level section of this manual. The password is entered via the first four selection switches while the controller is displaying "PASS." The password must be entered within 10 seconds in the following order: 4-2-3-1. The display will go blank after the first selection switch is pressed. After completing the sequence, press (ENTER). If the password is not recognized, the display will go back to "PASS". If the password is entered correctly, the display will show "CASH."



CASH COUNTER DISPLAY MODE

If (ENTER) is pressed at the "CASH" prompt, the controller will enter the non-resettable cash display mode by displaying "CASH"/"XXXX"/"XX.XX" where the 'X's represent total cash over machine life. A decimal will be displayed in the appropriate position with the lower four digits. If the cash amount is less than five digits long, the upper four digits are not displayed. Using (UP) or (DOWN) will cycle through each selection as

"CANN" "XXXX/XX.XX," where the "NN" indicates the selection and the 'X's represent the resettable cash per selection. If (ABORT) is pressed anytime during this operation, the controller will return to the code level. Press the (UP) button to proceed to the next prompt "SALE".



VEND COUNTER DISPLAY MODE

If (ENTER) is pressed at the "SALE" prompt, the controller will enter the non-resettable vend display mode by displaying "SALE/"XXXX"/"XXXX." where the 'X's represent the number of all paid vends over machine life. If the sales amount is less than five digits, the upper four digits will not be displayed. Using (UP) or (DOWN) will cycle through each selection as "SLNN"/"XXXX/XXXX." where the "NN" indicates the selection and the 'X's represent the resettable number of vends for that selection. A decimal will be displayed in the right-most position with the lower four digits. If (ABORT) is pressed anytime during this operation, the controller will return to the "SALE" prompt. Press the (UP) button to proceed to the next prompt "CArd".



CARD COUNTER DISPLAY MODE

The Card Counter Display Mode is used to track cash and sales counts of all vends made by using a debit or credit card. If <enter> is pressed at the "CArd" prompt, the controller will enter the first of two submenus, "CASH." If <exit> is pressed at any time during this operation, the controller will return to the code level. Press the <up> button to proceed to the next prompt, "toKn."

If <enter> is pressed at the "CASH" prompt, the controller will enter the non-resettable cash display mode by showing "totL" / "XXXX" / "XX.XX," where the X's will represent the total value of all card sales over the life of the vender's control board. A decimal point will be displayed in the appropriate position with the lower four digits. If the cash amount is less than five digits long, the upper four-digit set is not displayed. Using <up> or <down> will cycle through each selection as "CANN" / "XXXX" / "XX.XX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "CASH" prompt. Press <up> to proceed to the next prompt, "SALE."

If <enter> is pressed at the "SALE" prompt, the controller will enter the non-resettable card sale vend count display mode by showing "totL" / "XXXX" / "XXXX," where

the X's will represent the total number of all card sales over the life of the vender's control board. Using <up> or <down> will cycle through each selection as "SLNN" / "XXXX" / "XXXX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "SALE" prompt. Press <exit> again to return to the "CArd" prompt.



TOKEN COUNTER DISPLAY MODE

The Token Counter Display Mode is used to track cash and sales counts of all vends made by using a vend token. If <enter> is pressed at the "toKn" prompt, the controller will enter the first of two submenus, "CASH." If <exit> is pressed at any time during this operation, the controller will return to the code level. Press the <up> button to proceed to the next prompt, "FrEE."

If <enter> is pressed at the "CASH" prompt, the controller will enter the non-resettable cash display mode by showing "totL" / "XXXX" / "XX.XX," where the X's will represent the total value of all vend token sales over the life of the vender's control board. A decimal point will be displayed in the appropriate position with the lower four digits. If the cash amount is less than five digits long, the upper four-digit set is not displayed. Using <up> or <down> will cycle through each selection as "CANN" / "XXXXX" / "XX.XX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "CASH" prompt. Press <up> to proceed to the next prompt, "SALE."

If <enter> is pressed at the "SALE" prompt, the controller will enter the non-resettable card sale vend count display mode by showing "totL" / "XXXX" / "XXXX," where the X's will represent the total number of all vend token sales over the life of the vender's control board. Using <up> or <down> will cycle through each selection as "SLNN" / "XXXX" / "XXXXX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "SALE" prompt. Press <exit> again to return to the "toKn" prompt.

FHEE

FREE VEND ACCOUNTING MODE

The Free Vend Accounting Mode is used to track cash counts, sales counts, and cost of all free vends. If <enter> is pressed at the "FrEE" prompt, the controller will enter the first of three sub-menus, "CASH." If <exit> is pressed at any time during this operation, the controller will return to the code level. Press the <up> button to proceed to the next prompt, "Pric."

If <enter> is pressed at the "CASH" prompt, the controller will enter the non-resettable cash value display mode by showing "totL" / "XXXX" / "XX.XX," where the X's will represent the total equivalent value of all free vends over the life of the vender's control board. A decimal point will be displayed in the appropriate position with the lower four digits. If the cash amount is less than five digits long, the upper four-digit set is not displayed. Using <up> or <down> will cycle through each selection as "CANN" / "XXXXX" / "XX.XX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "CASH" prompt. Press <up> to proceed to the next prompt, "SALE."

If <enter> is pressed at the "SALE" prompt, the controller will enter the non-resettable free vend count display mode by showing "totL" / "XXXX" / "XXXX," where the X's will represent the total number of all free vends over the life of the vender's control board. Using <up> or <down> will cycle through each selection as "SLNN" / "XXXX" / "XXXX," where the N's represent the appropriate selection number. The individual selection counts are resettable. If <exit> is pressed, the controller will return to the "SALE" prompt. Press <up> to proceed to the next prompt, "CoSt."

If <enter> is pressed at the "CoSt" prompt, the controller will enter the free vend equivalent cost display mode by displaying "CANN" / "XX.XX," where the N's represent the appropriate selection number. The X's represent the last saved price for that selection that is not 00.00. A decimal will be displayed in the appropriate position. Using <up> or <down> will cycle through each selection. If <exit> is pressed, the controller will return to the "CoSt" prompt. Press <exit> again to return to the "FrEE" prompt.



SELECTION PRICE SETTING MODE

If (ENTER) is pressed at the "PrIC" prompt, the controller will enter the selection price setting mode. The display will show "Pr 1" if the machine is in multi-price mode, or "SPrI" if the machine is in single-price mode.

The G-III Vender is shipped from the factory in multi-price mode with a 1.00 vend price.

Note: In the single-price mode, the price for selection 1 is the price for all selections. Single-price is displayed as "SPrI" instead of "PrI" as a reminder to the operator that the machine is currently in single-price mode.

In the multi-price mode, individual selection prices can be changed using the (UP) and (DOWN) to display "PrXX," where 'XX' is the selection number, or choose "ALL" to change the prices for all selections. If (ENTER) is pressed, the display will show the current price for the displayed selection. Using (UP) or (DOWN) will increase or decrease the price. Holding (UP) or (DOWN) for more than five seconds will cause the price to change at 10 times the normal rate. When the desired price is on the display, pressing (ENTER) will save that price, while pressing (ABORT) will return to the selection level without saving. Press the (UP) button to proceed to the next prompt "StS".

SES

SPACE-TO-SALES PROGRAMMING MODE

If (ENTER) is pressed at the "StS"

prompt, the controller will enter the space-to-sales programming mode by displaying "OPtn," where 'n' is the current option selected; "CStS" for custom configuration, or "rStS". Using (UP) or (DOWN) will allow the operator to cycle through all 11 available space-to-sales options "OPt1"-"OPt9," "CStS," and "rStS." When one of the "OPt1"-"OPt9" options are on the display, pressing (ENTER) will select that space-to-sales option and return to the code level. If one of the "OPt1"-"OPt9," "CStS," or the "rStS" options is displayed and (ABORT) is pressed, the user will return to the "StS" prompt without changing the settings.

NOTES:

- 1. If (ENTER) is pressed at "CLr", the "StS" settings will reset to none.
- 2. There is a decal, located on the inner door, that shows the relationship between columns and selections.
- 3. If the clear program is used without assigning any columns, the LED with read "Sold-out".

Custom Space-to-Sales Programming "CStS"

If (ENTER) is pressed at the "CStS" prompt, the custom space-to-sales programming mode is entered. The display will show "CLr." If (ENTER) is pressed, the current space-to-sales settings will be cleared. From "CLr," pressing UP will show "SL XX" and alternate this message with either a blank screen if no columns are assigned to the selection, or a sequence of numbers (XX) that represent the columns currently assigned to the selection. Pressing (UP) or (DOWN) will cycle through the remaining selections, plus the "SAUE" {save} option. Pressing (ABORT) at this point will move the user to the "SAUE" option, where pressing (ENTER) will save the changes, and pressing (ABORT) will return to the "CStS" prompt without saving any of the changes.

If (ENTER) is pressed at a "SLXX" prompt, the display will show "Cnn" where 'nn' is the column number. Pressing (UP) or (DOWN) will cycle through all 12 columns. If (ENTER) is pressed at any column indicator, the display will change to "CnnY" where "Y" will be '1' if column "nn" is currently assigned to the selection, or '0' if it is not. (UP) and (DOWN) can be used to change the assignment status of the column. Pressing (ABORT) at this time will return the user to the "Cnn" display without changing the status of the column, while pressing (ENTER) saves the displayed status of the column. Pressing (ABORT) at any column indicator ("Cnn") returns the user to the "SLXX" display. Pressing (ABORT) at this point will move the user to the "SAUE" option. While at the "SAUE" prompt, pressing (ENTER) saves the custom space-to-sales settings and returns to the code level ("StS"), while pressing (ABORT) returns to the "CStS" prompt without saving the settings. Press the (UP) button to proceed to the next prompt "rStS".

NOTE: Assigning a column to a selection does not clear previous assignment of that column. Care must be taken to ensure that a column is not mistakenly double-assigned or left unassigned.

Recommended Space-to-Sales "rStS"

If (ENTER) is pressed at the "rStS" prompt, a recommended space-to-sales configuration is calculated, based on first choice attempts since StS was last changed. The display will flash "SL 1" and alternate this message with either "nonE," indicating that no columns should be assigned to selection 1, or a sequence of numbers that represent columns that should be assigned to selection 1. Pressing (UP) or (DOWN) will cycle through the remaining selections. Pressing (ENTER) or (ABORT) will move the user to the "SAUE" option, where pressing (ENTER) will save the recommended space to sales or pressing (ABORT) will return the "StS" prompt without saving the changes. Press the (UP) button to proceed to the next prompt "Con".



MACHINE (C1-C10) CONFIGURATION MODE

If (ENTER) is pressed at the "Con"

prompt, the controller will enter the machine configuration mode by displaying "C1-1," which designates configuration option number 1. If (ABORT) is pressed while at the "Cn" level, the controller will return to the code level. Pressing (UP) or (DOWN) will allow the selection of available configuration options. Pressing (ENTER) will change the display to "Cn X" where "n" is the configuration number and "X" is the current status of the option. The status is changed using (UP) or (DOWN). Pressing (ENTER) saves the status of the current option and returns the user to the "Cn" prompt, while pressing (ABORT) returns to the "Cn" prompt without saving. From the "Con" prompt, press (UP) to proceed to the next prompt "CCOC".

Royal Vendors recommended configuration settings:

Con 1 - (1) Multi price

Con 2 - (1) Opt features on

Con 3 - (0) Greeting displayed

Con 4 - (0) Open Door Totals disabled

Con 5 - (0) MIS reset

Con 7 - (0) Five minute timer used

Con 8 - (1) Force attempt enabled

Con 9 - (0) Multi purchase disabled

Con 10 - (0) Bill escrow

Con 11 - Depends on vender configuration



Single / Multi-Price

This configuration chooses between the single-price and multi-price settings by

pressing (UP) or (DOWN). In the single-price mode, the price of selection (0) will be used for all selections. In the multi-price mode (1), each selection can be set to a different price.

If X = 1, Multi-pricing is used.

If X = 0, Single-pricing is used.



Optional Features Enable

This configuration enables optional

features "bLC1," "bLC2," "dISC," "OUEr," "SdEP," and "rUnd" if set to "1".

If set to "0" the optional features will be disabled and will not be displayed in the menus. *Notes:* The timers and the key switch functions will not work if set to "0". SdEP is

the only optional feature that will work if set to "0"



P.O.S. Disable

This option is used to disable the point of Sales (P.O.S.) message if set to "1". If set to "0" the P.O.S. is enabled (greeting will be displayed).



Open Door Totals

This option changes the Open-Door Mode Display (see "Modes of Operation"

section of this manual for a description of the Open-Door Mode). If enabled, the total machine sales and total machine cash values are displayed before the error codes. These values represent the number of all paid vends and the cash amount of all paid vends, respectively. The sales and cash values are displayed the same as in the "SALE" and "CASH" service mode functions. The display shows "SALE"/ "XXXX"/ "XXXX." for two seconds each four digits, then "CASH"/ "XXXX"/ "XX.XX", then existing errors or "nonE." If this option is disabled, existing errors are displayed, or "nonE" if no errors exist.

If X = 1, "SALE"/ "XXXX"/ "XXXX.", "CASH"/"XXXX"/"XX.XX", and existing errors or "nonE" are displayed. If X = 0, Existing errors or "nonE" is displayed.



Door Switch Reset

This option is used to allow the door switch to reset all resettable MIS

(resettable cash and sales counts).

If X = 1, All resettable MIS registers are reset when the door switch is activated, if any one of the resettable MIS registers are read.

If X = 0, All resettable MIS registers will be reset only when the "CF" command is received from the HHC.



Save Credit

This configuration is used to determine how long the credit is displayed.

If X = 1, The credit is left on the display indefinitely. If X = 0, After 5 minutes the credit is erased.



Forced Attempt

This configuration prevents the machine from becoming a change maker. When

this mode is set to (1) enabled, escrow of coins is allowed until any of the following:

- Any bill is inserted into the bill acceptor.
- Any "cash box" coin (a coin that is not assigned to a tube) is inserted.
- The maximum vend price is reached. Once any of these conditions are met, escrow is ignored and a vend must be made.

If a selection is made that is sold out or locked out, this option will override and an escrow will be honored.

If this mode is set to (0), the force-attempt option will be disabled.

NOTE: Force attempt has no effect on the card reader. Once a card is inserted, it can always be returned to the customer via an escrow or the return switch on the card reader.

If X = 1, Force-attempt is enabled. If X = 0, Force-attempt is disabled.



Multi-Purchase

Allows multiple purchases without reentering coins. If enabled, instead of returning the change after a vend, the

credit will remain on the display to be used for another selection. An escrow will be honored at any time. This option will take precedence over the force-attempt option after the first vend has been completed.

If X = 1, Multi-purchase is enabled.

If X = 0, Multi-purchase is disabled.

NOTE: If the card reader is not multi-vend capable, the card will be ejected after each vend regardless of the state of this option.



Bill Escrow Inhibit

This configuration allows the escrow of bills. If 'X' is set to "1" and the bill value inserted takes the accumulated credit over

the maximum vend price, bills will always go to the cash box. If the rule is set to "0", the bill will be held in the escrow position.

If X = 1, Bill escrow is disabled If X = 0, Bill escrow is enabled.



Energy Star® Tier Setting

Energy Star is a government-led program to promote energy-efficient products. All

venders built for use in the USA and Canada since April 2004 are Energy Star-compliant. Beginning with serial numbers 200724 and after, these venders are now Energy Star Tier 2-compliant, which denotes even greater energy efficiency. Tier 2-compliant venders can be identified by the placement of the temperature sensor. In older venders, the temperature sensor was mounted on the rear cabinet wall behind the evaporator fan. On Tier 2-compliant venders, the temperature sensor is mounted in front of the evaporator, directly below the chute assembly.

The new features of Energy Star Tier 2-compliant venders are:

- Normal Mode (Energy Saving): When the main door is closed and the door switch is made, the controller will count the number of refrigeration cycles. When this number equals a stored counter, the refrigeration unit will convert from a pull-down mode, in which the evaporator fun runs continuously, to a normal mode, in which the evaporator fan runs only when the compressor is on.
- **<u>Defrost Mode:</u>** The defrost feature is a 30-minute period in which the compressor is shut off and the evaporator fan is allowed to run. The defrost feature is initiated by a timer. The factory default is three hours, but this setting may be adjusted in the Refrigeration Control Mode from 3 to 24 hours.

IT IS **IMPERATIVE** THAT THIS CONFIGURATION BE SET CORRECTLY. Possible problems due to incorrect setting of this configuration include:

- <u>TIER 1:</u> If a Tier 1-compliant or non-Energy Star vender's controller is set for Tier 2 operation, the refrigeration unit could short-cycle, eventually shutting off the unit completely.
- <u>TIER 2:</u> If a Tier 2-compliant vender's controller is set for Tier 1 operation, the refrigeration unit could freeze up and shut down. A "PULL" error will be shown in the vender's error codes.

This configuration should be set as follows:

If X = 0, the controller is set for Tier 1 operation. (All non-Energy Star venders should also be set to "0.")

If X = 1, the controller is set for Tier 2 operation.



CORRECT CHANGE ONLY CONTROL MODE

If (ENTER) is pressed at the "CCOC" prompt, the controller will enter the correct change only control mode. Upon entry into this routine the display will show the first summary level code, "ConX".

ConX (Allow Consumer Overpay)

This submode is used to determine whether a vend should be allowed when an overpayment situation may result. If set to "0", the customer will not be cheated.

When set to "1", if a customer makes a selection when the change levels are low and the "Use Correct Change Only" light is:

- OFF: The light will blink for up to one minute. If after 2 seconds but before one minute expires the customer re-selects this same selection, the vend will continue and as much change as possible will be returned.
- ON: The light will blink for up to one minute.
 However, the vend will continue and as much change
 as possible will be returned. The light will return
 to its appropriate state when the blinking period has
 ended.

In either case above, remaining change due back to the customer will remain on the display. The customer could add change to the remaining value on the display to make another vend.

Note: If "Con" is set to 1, both "CCU" and "ACC" will apply; if set to 0, only "CCU" will apply.

CCU (Correct Change Value)

When (ENTER) is pressed at "CCU", the display will show a value. The changer must be able to pay back this value and all values below that (in the changer's lowest tube value) in order for the correct-change light to go out. In other words, if "CCU" is set to 0.25, the changer must be able to pay back 0.25, 0.20, 0.15, 0.10, and 0.05 in any combination, or else the correct-change light will be lit. If this value is set to .00, the "Use Correct Change Only" light will never be lit solid.

ACC (Unconditional Acceptance Value)

When (ENTER) is pressed at "ACC", the display will show a value. The vender should not accept any amount of currency (bill or coin) larger than the value set in "ACC" unless the changer can pay out the equivalent of that amount.

PrEU

PREVIEW DATA "External" PASSWORD MODE

If (ENTER) is pressed at the "PrEU" prompt, the controller will display the current password for the external preview mode. The first digit of the number will be flashing. Pressing (UP) or (DOWN) will adjust the currently flashing digit up or down. Pressing (ENTER) will save the currently flashing digit and the next digit of the password will begin flashing. All digits may be modified in this manner.

Pressing (ENTER) while the last digit is flashing saves the currently displayed password and returns to the "PrEU" prompt, while pressing (ABORT) at any time in the procedure returns to the "PrEU" prompt without saving. From the "PrEU" prompt pressing (UP) will procede to the next prompt "LAnG".

Note: Password digits correspond to selection switches. If a digit is set to a nonexisting selection switch number or "0", it will not be possible to enter the external password.

LAHS

LANGUAGE SELECTION MODE

The "LAng" mode gives you the opportunity to set vending messages in any of the following languages:

English - "EnG"
French - "Frn"
German - "GEr"
Italian - "ItA"
Portuguese - "Port"
Spanish - "ESP"
Slovenian - "SLO"
Finnish - "FIn"
Norwegian - "nor"
Custom - "CUSt"

Pressing (ENTER) will display the last programmed setting. Press (UP) or (DOWN) to cycle through the available languages. When desired language is displayed, press the (ENTER) button to save your choice. If (ABORT) is pressed anytime during this operation, the controller will return to the "LANG" prompt. Press the (UP) button to proceed to the next prompt "tinE".



TIME/DATE SETTING MODE

If (ENTER) is pressed at the "tinE" (time) prompt, the controller will enter the time setting mode and the first display will be "Enb" (enable). Using (UP) or (DOWN) will allow you to cycle through all available time selection options. Pressing (ENTER) will allow you to set the sub-menu you have entered into (example "Enb"). If (ABORT) is pressed anytime during this operation, the controller will return to the "tinE" prompt. Press the (UP) button to proceed to the next prompt "Lit".

TIME SELECTION OPTIONS

(current time settings)

*"Enb" Enable (must be set to "1")
"yEAr" Current Year (Example "02")

"nth" Current Month

"dAtE" Current Day of the Month
"Hour" Current Time (hours, minutes)
"dSt" Daylight Savings Time Selection

(NA, OFF, AUS, EU)

*NOTE: Enable must be set to "1" at all times to assure proper vender operations.

Enable Setting "Enb"

This setting controls the time and date support by keeping a continuous updated clock connection (1) or you can turn the clock off (0), so the clock is not updated. Toggle between the (1) and (0) by pressing (UP) or (DOWN). Pressing (ENTER) will save the current setting and return to the "Enb" prompt. Press the (UP) button to procede to the next prompt "YEAr".

If X=1, Will keep the clock current when enabled. If X=0, Will not keep the clock current if disabled.

Set Year "YEAr"

If (ENTER) is pressed at the "yEAr" prompt, the last two digits of the year are displayed and will be flashing. Pressing (UP) or (DOWN) will increase or decrease the year setting. Pressing (ENTER) will save the displayed year setting and return the user to "yEAr" while pressing (ABORT) will return to "yEAr" without saving. Press the (UP) button to proceed to the next prompt "nth".

Set Month "nth"

After (ENTER) is pressed at the "nth" prompt, you will be able to select the current month (01-12). Pressing (UP) or (DOWN) will increase or decrease the month setting. Pressing (ENTER) will save the displayed month and return the user to the month level. Pressing (ABORT) while the month digits are flashing returns to the month level without saving the month. Press the (UP) button to proceed to the next prompt "dAtE".

Set Date "dAtE"

If (ENTER) is pressed at the "dAtE" prompt, two digits will appear and represent the day of the month (01-31). Pressing (UP) or (DOWN) will increase or decrease the number. Pressing (ENTER) will save the displayed number and return the user to the date level. Pressing (ABORT) while the numbers are flashing returns to the date level without saving the number. Press the (UP) button to proceed to the next prompt "Hour".

Set Hour "Hour"

If (ENTER) is pressed at the "Hour" prompt, the current time is displayed in a 24-hour format. The left two digits of the display show the current hour, the right two digits show the current minutes. While the hour setting is flashing, pressing (UP) or (DOWN) will increase or decrease the hour setting. If (ENTER) is pressed, the minute setting will flash. (UP) or (DOWN) will set the minutes. Pressing (ENTER) at this point will save the displayed hour and minutes setting and return the user to "hour." Pressing (ABORT) while the hour or minutes digits are flashing returns to "Hour" without saving the hour or minutes. Press the (UP) button will procede to the next prompt "dSt".

Daylight Savings Time "dSt"

After the (ENTER) button is pressed at the "dSt" prompt, the display will show the current daylight saving time code. Using the (UP) and (DOWN) buttons will rotate through the available options. Pressing (ENTER) any time will save the selected options and return the user to "dSt." Pressing (ABORT) button while in ("nA," "OFF," "AUS," or "EU") will return you to the "dSt" without saving any changes.

nA North American Rules

OFF No daylight savings time changes made

AUS Australian Rules EU European Rules

Pressing the (ABORT) button at the "dSt" display, the controller will return to the "tinE" prompt. Press the (UP) button to proceed to the next prompt "Lit".



LIGHTING CONTROL

MODE (Optional Relay Kit Required)

If (ENTER) is pressed at the "Lit" prompt,

the controller will enter the lighting control mode and the first display will be "Enb" (enable). Using (UP) or (DOWN) will allow you to cycle through all available lighting control mode options (Enb, Strt, Stop).

Enable "Enb"

If (ENTER) is pressed at the "Enb" prompt, the controller will enter the lighting control enable mode. If set to (1) the lighting control will be enabled and the lighting panels of the vender will be turned off during the following programmed time blocks (if the lamp relay kit is installed). If set to (0) the lighting control will be disabled. Toggle between the (1) and (0) by pressing (UP) or (DOWN). Pressing (ENTER) will save the current setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "Lit" without saving your settings. Pressing (UP) will procede to the next prompt "Strt".

If X=1, The lighting control is (on) enabled. If X=0, The lighting control is (off) disabled.

Start Time Setting "Strt"

If (ENTER) is pressed at the "Strt" prompt, the controller will display "daY"(day of the week). Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the timer is not active on that day.

If X=1 The timer is active on that day. If X=0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All).

Press (ENTER) at the desired day to activate or not activate the timer for that day. The value must be blinking to edit the setting. Press (UP) or (DOWN) to toggle between (0) or (1). When desired selection is shown, press (ENTER) to save your setting. If the (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your selection. Press the (UP) button to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the start time and return to the "Hour" prompt, pressing (ABORT) from the "Hour" prompt will return the controller to "Strt" prompt. Press the (UP) button to procede to the next prompt "StoP". *Note: The time is based on 24 hour time (Military time)*

Stop Time Setting "StoP"

If (ENTER) is pressed at the "StoP" prompt, the controller will display "daY"(day of the week). Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the day is not active on that day.

If X=1 The timer is active on that day. If X=0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (0) or (1). When desired selection is shown, press (ENTER) to save your selection. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your selection. Press the (UP) button to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the stop time and return to the "StoP" prompt. Pressing (ABORT) at "StoP" prompt will bring you out to "Lit" prompt. Press the (UP) button to proceed to the next prompt "rFrG".

rFr6

REFRIGERATION CONTROL MODE

If (ENTER) is pressed at the "rFrG" prompt, the controller will enter the refrigeration control mode by displaying "Enb", indicating the energy conservation mode. Using (UP) or (DOWN) will allow the operator to toggle between the following modes:

"Enb" Enable energy conservation

"Strt" Start time setting

"Stop" Stop time setting

"deG" Degree - Fahrenheit or Celsius

"SEtP" Set point (maintaining cabinet temperature setting)

"Stor" Storage - maximum cabinet temperature setting

"dSP" P.O.S. temperature display

If (ABORT) is pressed at this point, the controller will return to the "rFrG" prompt without saving the changes. *Note:* The refrigeration unit can not be disabled from the controller when using manual thermostat (cold control).

Enable Energy Conservation "EnB"

If (ENTER) is pressed at the "Enb" prompt, the controller will enter the energy conservation enable mode. If set to (1) the energy conservation control will be enabled and the cabinet temperature will be allowed to raise to the "Stor" programmed time blocks. If set to (0) the energy conservation will be disabled and the refrigeration unit will operate as normal and will maintain the "SEtP" temperature. Toggle between the (1) and (0) by pressing (UP) or (DOWN). Pressing (ENTER) will save the current setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "Enb" level without saving your selection. Press the (UP) button to proceed to the next prompt "Strt".

If X=1, Enabled (on), the refrigeration unit runs when the storage temperature is reached*. *see note below*.

If X=0, The refrigeration unit will run according to the "SEtP" setting.

*Note: If enabed (set to 1), the cabinet temperature will rise to the "Stor" temperature operated by the timer program, <u>ONLY</u> if the Start and Stop times are set.

Start Time Setting "Strt"

If (ENTER) is pressed at the "Strt" prompt, the controller will display "daY"(day of the week). Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the timer is not active on that day.

If X=1 The timer is active on that day.

If X = 0 the timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the setting. Press (UP) or (DOWN) to toggle between (0) or (1). When desired setting is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your selection. Press (UP) to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the start time and return to the "Hour" prompt. Pressing (ABORT) from the "Hour" prompt will return the controller to "Strt" prompt. Press the (UP) button to proceed to the next prompt "StoP".

Note: The time is based on 24 hour time (Military time)

Stop Time Setting "StoP"

If (ENTER) is pressed at the "StoP" prompt, the controller will display "daY"(day of the week). Enter into "daY" by pressing (ENTER). The display will show the current day of the week followed by (1) if the timer is active on that day or (0) if the timer is not active on that day.

If X=1 The timer is active on that day. If X=0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (0) or (1). When desired setting is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your setting. Press (UP) to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the stop time. Press the (ABORT) button to return to the "StoP" prompt. Press the (UP) button to proceed to the next prompt "dEG". *Note: The time is based on 24 hour time (Military time)*.

Fahrenheit/Celsius Setting "dEG"

If (ENTER) is pressed at the "dEG" prompt, the controller will display "dEGX," if 'X' is 'F' the controller is currently in °F Fahrenheit mode, or if 'X' is 'C' the controller is in the °C Celsius mode. Pressing (UP) or (DOWN) will toggle the 'X' digit between 'F' and 'C'. Pressing (ENTER) will save the displayed temperature mode and return the user to the "dEG" prompt, while pressing (ABORT) will return to the "dEG" prompt without saving any changes. Press the (UP) button to proceed to the next prompt "SEtP". This function can also be accessed via the HHC.

Set Point Setting "SEtP"

The set point setting is what temperature the cabinet will maintain and when (ENTER) is pressed at the "SEtP" prompt, the controller will display "tt.tX," where 'tt.t' will be in degrees and X will represent either 'F' Fahrenheit or 'C' Celsius. Pressing (UP) or (DOWN) will increase or

decrease by 1° F (or 0.5°C). Pressing (ENTER) will save the set point and return the user to the "SEtP" prompt, while pressing (ABORT) will return to the "SEtP" prompt without saving any changes. Press the (UP) button to proceed to the next prompt "Stor". *Note: The default setting for "SEtP" is* 35°*F* (1.5°C).

Storage Setting "Stor" (Applies only when using timer)
The storage setting is the maximum temperature you want
the cabinet to reach when the timer mode is in use.

If (ENTER) is pressed at the "Stor" prompt, the controller will display the current storage setting "tt.tX," where 'tt.t' will be in degrees and X will represent either 'F' Fahrenheit or 'C' Celsius. Pressing (UP) or (DOWN) will increase or decrease by 1° F (or 0.5°C). Pressing (ENTER) will save the setting and return the user to the "Stor" prompt, while pressing (ABORT) will return to the "Stor" prompt without saving any changes. Press the (UP) button to proceed to the next prompt "dSP". *Note: The default setting for "Stor" is 60°F (15.5°C)*.

POS Temperature Display "dSP"

If (ENTER) is pressed at the "dSP" prompt, the controller will display "dSPX," if 'X' is '0' the controller is not displaying the cabinet temperature in the POS message, or '1' if the controller is currently displaying the cabinet temperature after teh POS message. Pressing (UP) or (DOWN) will toggle the 'X' digit between '0' and '1'. Pressing (ENTER) will save teh currently displayed setting and return the user to the "dSP" prompt, while pressing (ABORT) will return to the "dSP" prompt without saving the changes. Pressing (ABORT) at the 'dSP' prompt will bring you out to "rFrG" prompt. Press the (UP) button to proceed to next prompt "bLC1", (if Con. 2 is set to "1").

Defrost Interval "dEF" (Energy Star Tier 2 only)

The default defrost interval is 3 hours. This setting is used to determine how often the machine will go into defrost mode. If (ENTER) is pressed at the "dEF" prompt, the controller will display current defrost interval setting, "NN," where the N's represent the interval setting in hours. Using (UP) or (DOWN) will increase or decrease the interval setting in hours, from 3 to 24. Pressing (ENTER) will save the currently displayed setting and return the controller to the "dEF" prompt. Pressing (ABORT) will return the controller to the "dEF" prompt without saving changes.

Configuration 2 must be enabled (set to 1) for the following timer functions to operate:

Note: The timers or the override switch will not function, if C2 is set to "0".



BLOCK SELECTION 1



BLOCK SELECTION 2

If (ENTER) is pressed at the "bLC1" or "bLC2" prompt, the controller will enter

the block selection control and the first display will be "Enb"(enable). Using (UP) or (DOWN) will allow you to cycle through available sub menus. If (ABORT) is pressed anytime during this operation, the controller will return to the "bLC1" or "bLC2" without saving your selection.

Enable Blocking "Enb"

If (ENTER) is pressed at the "EnbX" prompt, the controller will enter the blocking enable mode. If set to (1) the blocking control will be enabled and the active selections will not be able to vend during the following programmed time blocks. If set to (0) the blocking control will be disabled. Toggle between the (1) and (0) by pressing (UP) or (DOWN). Pressing (ENTER) will save the current setting. If (ABORT) is pressed anytime during this operation, the controller will return to "EnbX" without saving your selection. Press the (UP) button to proceed to the next prompt "Strt" prompt.

If X=1, The blocking control is enabled. If X=0, The blocking control is disabled.

Start Time Setting "Strt"

If (ENTER) is pressed at the "Strt" prompt, the controller will display "daY". Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the day is not active on that day.

If X=1 The timer is active on that day.

If X = 0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All) Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (1) or (0). When desired setting is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your setting. Press (UP) to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the start time and return to the "Hour" prompt. Press the (ABORT) button to return to the "Strt" prompt. Press the (UP) button to proceed to the next prompt "StoP".

Note: The time is based on 24 hour time (Military time)

Stop Time Setting "Stop"

If (ENTER) is pressed at the "StoP" prompt, the controller will display "daY". Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the day is not active on that day.

If X=1 The timer is active on that day. If X=0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (0) or (1). When desired setting is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your selection. Press (UP) to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the stop time. Press the (ABORT) button to return to the "StoP" prompt. Press the (UP) button to proceed to the next prompt "SEL".

Note: The time is based on 24 hour time (Military time).

Selection Setting (SEL)

If (ENTER) is pressed at the "SEL" prompt, the controller will enter the selection setting and the first display will show the current setting for selection one "01 X". If X is (1) the selection is active or (0) the selection is not active. Using (UP) or (DOWN) will allow you to rotate through the valid selections or select "ALL". If (ABORT) is pressed anytime during this operation, the controller will return to the "SEL" without saving your selection.

X=(1) The selection is active.

X=(0) The selection is not active.

To edit a selection, press (ENTER) when the desired selection is displayed, the value must blink before any changes can be made. Pressing (UP) or (DOWN) will change the current setting. Pressing (ABORT) while editing a selection will bring you back to the original setting without saving any changes. Press the (UP) button to proceed to the next prompt "Lit".

Lighting Control "Lit" (Optional relay kit required)
If the lighting control option is activated and the (ENTER) button is pressed at "LitX" the controller will enter the current lighting control setting. If "X" equals (1), the

lighting control setting. If "X" equals (1), the lighting control will be activated and the lighting will be turned off during the blocking period. If "X" is set to (0) the lighting control will be disabled.

X=(1) Lighting control will be actived.

X=(0) Lighting control will be not actived.

Press (ENTER) to edit the setting, "1" or "0" must blink before any changes can be made. Pressing (UP) or (DOWN) will change the current setting. Pressing (ABORT) while editing a setting will bring you back to the original setting without saving any changes. Pressing (ABORT) at the "Lit" prompt will bring you out to "bLC1" or "bLC2" prompt. Press the (UP) button to proceed to the next prompt "diSC".

d) 5C

DISCOUNT SETTING

If (ENTER) is pressed at the "diSC" prompt, the controller will enter the

discounting control setting and the first display will be "Enb"(enable). Using (UP) or (DOWN) will allow you to cycle through available sub menus. If (ABORT) is pressed anytime during this operation, the controller will return to the "diSC" without saving your selection.

Enable Discount "Enb"

If (ENTER) is pressed at the "EnbX" prompt, the controller will enter the discount enable mode. If "X" is set to (1) the discount will be enabled and the active selections will be discounted during the following programmed time blocks. Or if "X" set to (0) the discount setting will be disabled. Toggle between the (1) and (0) by pressing (UP) or (DOWN). Pressing (ENTER) will save the current setting. If (ABORT) is pressed anytime during this operation, the controller will return to "EnbX" without saving your selection. Press the (UP) button to proceed to the next prompt "Strt".

If X=1, The discounting price is enabled. If X=0, The discounting price is disabled.

Start Time Setting "Strt"

If (ENTER) is pressed at the "Strt" prompt, the controller will display "daY". Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the timer is not active on that day.

If X=1 The timer is active on that day. If X=0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (0) or (1). When desired selection is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your setting. Press the (UP) button to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two

digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the start time and return to the "Hour" prompt. Pressing (ABORT) from the "Hour" prompt will return the controller to "Strt". Press the (UP) button to proceed to the next prompt "StoP".

Note: The time is based on 24 hour time (Military time)

Stop Time Setting "StoP"

If (ENTER) is pressed at the "StoP" prompt, the controller will display "daY". Enter into "daY" by pressing the (ENTER) button. The display will show the current day of the week followed by a (1) if the timer is active on that day or (0) if the timer is not active on that day.

If X=1 The timer is active on that day.

If X = 0 The timer is not active on that day.

Using (UP) or (DOWN) will allow you to cycle through the days of the week (non, tue, UEd, thu, Fri, SAt, Sun or All). Press (ENTER) at the desired day to activate or deactivate the timer for that day. The value must be blinking to edit the selection. Press (UP) or (DOWN) to toggle between (0) or (1). When desired setting is shown, press (ENTER) to save your setting. If (ABORT) is pressed anytime during this operation, the controller will return to the "daY" prompt without saving your selection. Press the (UP) button to proceed to the next prompt "Hour".

If (ENTER) is pressed at the "Hour" prompt, the left two digits of the display will begin to flash, prompting the user to adjust the hour setting. (UP) or (DOWN) is used to adjust the hour. When the desired hour is shown, pressing (ENTER) will cause the right two digits to flash, showing the current minute setting. The minutes are set in the same fashion. When the minutes are properly displayed, pressing (ENTER) will save the stop time. Pressing (ABORT) while editing a selection will bring you back to "Hour" without saving any changes. Pressing the (ABORT) button from the "Hour" prompt, the controller will return to the "StoP" prompt. Press the (UP) button to proceed to the next prompt "SEL".

Selection Setting "SEL"

If (ENTER) is pressed at the "SEL" prompt, the controller will enter the selection setting and the first display will show the current setting for selection one "01 X". If X is (1) the selection is active or (0) the selection is not active. Using (UP) or (DOWN) will allow you to rotate through the valid selections or select "ALL". If (ABORT) is pressed anytime during this operation, the controller will return to the "SEL" without saving your selection.

X=(1) The selection is active.

X=(0) The selection is not active.

To edit a selection, press (ENTER) when the desired selection is displayed, the value must blink before any changes can be made. Pressing (UP) or (DOWN) will change the current setting and pressing (ENTER) will save the settings. Pressing (ABORT) while editing a selection will bring you back to the original setting without saving any changes. When finished making changes, press (ABORT) to return to the "SEL" prompt. Press the (UP) button to proceed to the next prompt "LESS".

Discount Amount "LESS"

If (ENTER) is pressed at the "LESS" prompt, the controller will enter the discount amount setting and the first display will show the current four digit discount amount (.00 - 99.95). For example if the amount was set to .10, every price set in the price mode will be reduced by 10 cents. Using (UP) or (DOWN) will allow you to increase or decrease the number in increments of the least coin tube amount. Press (ENTER) to save the setting and return you to the "LESS" prompt. Press (ABORT) to return to the "LESS" prompt without saving any changes. Pressing (ABORT) at "LESS" prompt will bring you out to "diSC" prompt. Press the (UP) button to proceed to the next prompt "OVEr".



MANUAL SWITCH OVER-RIDE

If the vender is equipped with a keyswitch it can be used to over-ride numerous operations of the vender (timer control). The key-switch can control one, or several features. When the switch is activated, the feature is over-ridden. Press (ENTER) at the "OUEr" prompt, the controller will enter the key switch over-ride setting and the first display will show "FrE". Using (UP) and (DOWN) will allow the operator to toggle between the following modes "FrE", "Und", "bLC", "dSC", "Lit" and "FrG".

An "over-ride switch kit" must be used to over-ride the following features:

"FrE" Free Vend Enable
"Und" Vending Over-Ride
"bLC" Selection Blocking Over-Ride
"dSC" Discounting Over-Ride
"Lit" Lighting Control Over-Ride

Refrigeration Over-Ride

Free Vend Enable "FrE"

"FrG"

If (ENTER) is pressed at the "FrE" prompt, the controller will enter the free vend over-ride setting. "FrEX", if 'X' is set to (1) free vending is enabled, if 'X' is set to (0) free vending is disabled. Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed anytime during this operation, the controller will return to the "FrE" prompt without saving your selection. Press the (UP) button to proceed to the next prompt "bLC".

X=(1) Free vending is enabled.

X=(0) Free vending is disabled.

Vending Over-ride "Und"

If (ENTER) is pressed at the "Und" prompt, the controller will enter the vending over-ride setting. If "X" is blinking (0), the vending over-ride will be disabled; if "X" is blinking (1), the vending over-ride will be enabled. When enabled, no selection will be allowed to vend, and a "nO SALE" message will be displayed. Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed during this operation, the controller will return to "Und" without saving your selection. Press (UP) to proceed to the next prompt, "bLC."

Blocking Over-ride "bLC"

If (ENTER) is pressed at the "bLC" prompt, the controller will enter the selection blocking over-ride enable setting and the first display will show the current setting "bLCX". If "X" is blinking (0) the selection blocking over-ride is disabled or if blinking (1) the selection blocking (bLC1 & bLC2) over-ride will be enabled.

X= (1) Selection blocking (bLC1& bLC2) is enabled (*Turns off timer control modes*).

X=(0) Selection blocking is disabled.

Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed anytime during this operation, the controller will return to the "bLC" without saving your selection. Press the (UP) button to proceed to the next prompt "dSC".

Discount Over-ride "dSC"

If (ENTER) is pressed at the "dSC" prompt, the controller will enter the discounting over-ride enable setting and the first display will show the current setting "dSCX". If "X" is blinking (0) the discounting over-ride is disabled or if blinking (1) the discounting over-ride will be enabled.

X= (1) Discounting over-ride is enabled (*Turns off timer control*).

X=(0) Discounting over-ride is disabled.

Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed anytime during this operation, the controller will return to the "dSC" without saving your selection. Press the (UP) button to proceed to the next prompt "Lit".

Lighting Control Override "Lit" (Optional Relay Kit Required)

If (ENTER) is pressed at the "Lit" prompt, the controller will enter the lighting control over-ride enable setting and the first display will show the current setting "LitX". If "X" is blinking (0) the lighting control over-ride is disabled or if blinking (1) the lighting control over-ride will be enabled.

X= (1) Lighting control over-ride is enabled (*Turns off timer control*).

X=(0) Lighting control over-ride is disabled.

Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed anytime during this operation, the controller will return to the "Lit" without saving your selection. Press the (UP) button to proceed to the next prompt "FrG".

Refrigeration Control Over-Ride "FrG"

If (ENTER) is pressed at the "FrG" prompt, the controller will enter the refrigeration control over-ride enable setting and the first display will show the current setting "FrGX". If "X" is blinking (0) the refrigeration over-ride is disabled or if blinking (1) the refrigeration over-ride over-ride will be enabled.

 X= (1) Refrigeration over-ride is enabled (turns off timer control for the storage temperature)
 X= (0) Refrigeration over-ride is disabled.

Using (UP) or (DOWN) will allow you to toggle between (1) or (0). If (ABORT) is pressed anytime during this operation, the controller will return to the "FrGX" without saving your selection. Pressing (ABORT) at "FrG" prompt will bring you out to "OVEr" prompt. Press the (UP) button to proceed to the next prompt "SdEP".



SET SELECTION DEPTH MODE

If (ENTER) is pressed at the "SdEP" prompt, the controller will enter the "by-selection" depth setting mode by displaying "01X". Where "X" represents "1" for single depth or "2" for double depth. Using (UP) or (DOWN) will allow the operator to cycle through the individual selections ("0YY") as well as the "ALL" selection. If (HOME) is pressed anytime during this operation, the controller will return to the code level. If (ENTER) is pressed, the display will show "ALLX" or "0YYX," depending on if the "ALL" mode is being used or if an individual selection is being accessed. "YY" represents the number of the selection and "X" represents the current column-depth setting of the selection. "X" will be '1' if the selection is set to single-depth mode, or '2' if it is set to double-depth. Using (UP) or (DOWN) will toggle "X" between '1' and '2'. When the desired setting is on the display, pressing (ENTER) will save that setting and return to the selection level, while pressing (ABORT) will return to the "SdEP" prompt without saving any changes. If the "ALLX" setting is saved, all individual selections will be set to this value. Press the (UP) button to proceed to the next prompt "rtn". This function can also be accessed via the HHC.

Note: When viewing the "ALLX" setting, the last value for "ALL" will be displayed, regardless of any changes that have been made to the individual settings.

rUnd

REMOTE VEND MECHANISM ROUTINE

If the ENTER button is activated at the "rUnd" prompt the VMC will enter the universal satellite device control routine. Upon entry into this routine the display will show the first summary level code, "Strt". Using the UP or DOWN buttons will cycle through the available summary level codes as listed below. Activation of the ENTER button will enter the detail level routines. Activation of the ABORT button while a summary level prompt is displayed will return the VMC to the "rUnd prompt. Activation of the ABORT button at the "rUnd" prompt has no action.

Start Time Setting "Strt"

If the ENTER button is activated at the "Strt" prompt the VMC will enter the start time setting routine. Upon entry into this routine the display will show the first summary level code, "dAY". Using the UP or DOWN buttons will cycle through the available summary level codes as listed below. Activation of the ENTER button will enter the detail level routines. Activation of the ABORT button while a summary level prompt is displayed will return the VMC to the "Strt" prompt. Activation of the ABORT button at the "Strt" prompt will return the VMC to the "rUnd" prompt.

If the ENTER button is activated at the "dAy" prompt the VMC will enter the day of week setting routine. Upon entry into this routine the display will show the current day of the week setting, i.e. "FriX", where X will be 1 if the state is active, or 0 if the state is not active. Using the UP or DOWN buttons will rotate through "non", "tUE", "UEd", "tHu", "Fri", "SAt", "Sun", or "ALL". Activation of the ABORT button will return the VMC to the "day" prompt without making any changes.

If the ENTER button is activated at the "Hour" prompt the VMC will enter the start time setting routine. Upon entry into this routine the display will show the current four digit hour and minute setting, in 24-hour format (0000, midnight, to 2359). The hour setting will be blinking to indicate that it can be edited. Using the UP or DOWN buttons will increase or decrease the number. Activation of the ENTER button will cause the minute setting to begin blinking indicating that it can now be edited. Using the UP or DOWN buttons will increase or decrease the number. Activation of the ENTER button will save the hour and minute setting and return to the "Hour" prompt. Activation of the ABORT button will return the VMC to the "Hour" prompt without saving any changes.

Stop Time Setting "Stop"

If the ENTER button is activated at the "StoP" prompt the VMC will enter the start time setting routine. Upon entry into this routine the display will show the first summary level code, "dAY". Using the UP or DOWN buttons will cycle through the available summary level codes as listed below. Activation of the ENTER button will enter the detail level routines. Activation of the ABORT button while a summary level prompt is displayed will return the VMC to the "StoP" prompt. Activation of the ABORT button at the "StoP" prompt will return the VMC to the "dISC" prompt.

If the ENTER button is activated at the "dAy" prompt the VMC will enter the day of week setting routine. Upon entry into this routine the display will show the current day of the week setting, i.e. "FriX", where X will be 1 if the state is active, or 0 if the state is not active. Using the UP or DOWN buttons will rotate through "non", "tUE", "UEd", "tHu", "Fri", "SAt", "Sun", or "ALL". Activation of the ABORT button will return the VMC to the "day" prompt without making any changes.

If the ENTER button is activated at the "Hour" prompt the VMC will enter the start time setting routine. Upon entry into this routine the display will show the current four digit hour and minute setting, in 24-hour format (0000, midnight, to 2359). The hour setting will be blinking to indicate that it can be edited. Using the UP or DOWN buttons will increase or decrease the number. Activation of the ENTER button will cause the minute setting to begin blinking indicating that it can now be edited. Using the UP or DOWN buttons will increase or decrease the number. Activation of the ENTER button will save the hour and minute setting and return to the "Hour" prompt. Activation of the ABORT button will return the VMC to the "Hour" prompt without saving any changes.

"SEL"

If the ENTER button is activated at the "SEL" prompt the VMC will enter the selection setting routine. Upon entry into this routine the display will show the current setting for selection one as "01 X", where X is 1 if the state is active or 0 if the state is not active. Using the UP or DOWN buttons will rotate through the valid selections or "ALL". Activation of the ABORT Button will return the VMC to the "SEL" prompt without making any changes.

"rAtE"

If the ENTER button is activated at the "rAtE" prompt the VMC will enter the universal satellite device vend rate routine. Upon entry into this routine the display will show the current vend rate (0 - 255). Using the UP or DOWN buttons will increase or decrease the number in single digit increments. A rate of "0" will disable the universal satellite device vending. All active selection vends (from above menu), regardless of selection, should be counted in this vend rate. Activation of the ENTER button will save the setting and return to the "rAtE"

RETURN TO SALES MODE If (ENTER) is pressed at the "rtn" prompt

If (ENTER) is pressed at the "rtn" prompt, or if 30 seconds passes without a selection

switch being pressed while at the "rtn" prompt, the controller will return to the normal door open mode.

SECTION 3: Vender Component Explanation

Door Switch

The vender door switch is mounted to the lower right side of the vender's door and is actuated by the door each time it is opened or closed (*see Figure 3.1*). The following functions are performed each time the vender door is closed:

- 1. Clears any column sold-out.
- 2. Scrolls Greeting
- 3. If door switch reset is enabled (see "Con"), the resettable MIS counters may be reset, upon reading selection 1.
- 4. Starts the refrigeration unit after an approximate 5 to 8 minute delay (after door switch is pressed).

Note: The door switch is mounted to the lower right side of the vender cabinet on models built prior to P.O. 1521.

Delivery Chute Sensor

The delivery chute sensor mounted on the bottom of the delivery chute signals the controller when a product is delivered.

Selection Switches

The selection switches signals the vender controller when a selection is made (*see Figure 3.1*). These switches are also used to program all vender functions (see "Four-Button Programming" section of this manual).

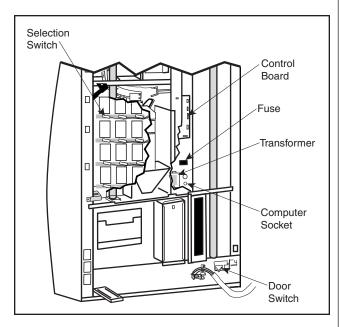


Figure 3.1

Low Voltage Transformer

The step-down transformer has a secondary winding which produces 24-volt AC output. The transformer works in conjunction with an external fuse which protects the vender in the event of a short in the secondary circuit. (See figure 3.1.)

A power supply located on the vender controller changes the 24-volt transformer output to direct current.

Vend Rack Assembly

The vend rack assembly, located in the cooling compartment of the vender, is composed of twelve product columns; six located in the front (columns one through six) and six in the rear (columns seven through twelve). Both front and rear columns are double-depth columns that can be adjusted to single-depth to accommodate packages other than 12 oz. cans. Different package types *cannot* be mixed within the same column.

Each column has an individual vend mechanism consisting of a rotating pivot, which is held in place by a spring-loaded release lever. On the opposite side of the column are the product stops, both of which are adjustable to vary the clearance through the mechanism for various diameter packages. These parts are mounted at the bottom of each column, and supported by rods through the vender's center support.

Beneath the rack and mounted to the left wall is a single vend motor and home sensor assembly. Connected to the motor's drive sprocket and running below the center support is the drive chain and lever actuator assembly.

See "Vend Sequence" section for a complete description of the vend operation.

Vend Rack Components

PIVOT: Located directly below each of the columns. Product in the column is retained between this pivot and the product stops. Rotation of the pivot allows the bottom package to dispense.

ADJUSTABLE PRODUCT STOPS: Two

adjustable product stops, one long and one short, are located in each column. Both the long and short product stops can be adjusted to vend either large diameter packages or small diameter packages. In any given column, both the long and the short adjustable product

SECTION 3: Vender Component Explanation

stops must be set to the same diameter position (i.e. when vending 12 oz. cans from a column, both the long and the short adjustable product stops must be set to the "small" package position). For adjustment, see "Setting the Adjustable Product Stops" section of this manual.

PIVOT END AND RELEASE LEVER: A

geared pivot end is inserted in the pivot. Its gear teeth engage with the teeth of the spring-loaded release lever thereby locking the pivot assembly until the release lever is pulled by the motor driven lever actuator.

PIVOT PAWL: A pivot pawl is used on each column's vend mechanism to reduce the backlash ("play") between the pivot assembly and the release lever. Pivot pawls are mounted behind the release lever springs.

ANTI-TILT SPRING: Prevents lowest can on long product stop from free vending if the vender is tilted or shaken by vandals.

VEND MOTOR ASSEMBLY: This assembly is comprised of a vend motor and electronic encoder. These are controlled by the vender's electronic controller. The encoder confirms the motor's positioning of the lever actuator.

HOME SENSOR: The home sensor is mounted directly above the vend motor sprocket on the vend motor mounting bracket. It senses the lever actuator, using this information to signal the controller that the lever actuator has reached the "home" position.

DRIVE CHAIN AND LEVER ACTUATOR:

Attached to the drive chain are the two sets of lever actuators. The vend motor accurately positions the lever actuator to strike the appropriate release lever.

IDLER BRACKET ASSEMBLY: Provides proper tensioning for the chain assembly.

CHAIN STABILIZER: Provides support for the upper run of the chain assembly.

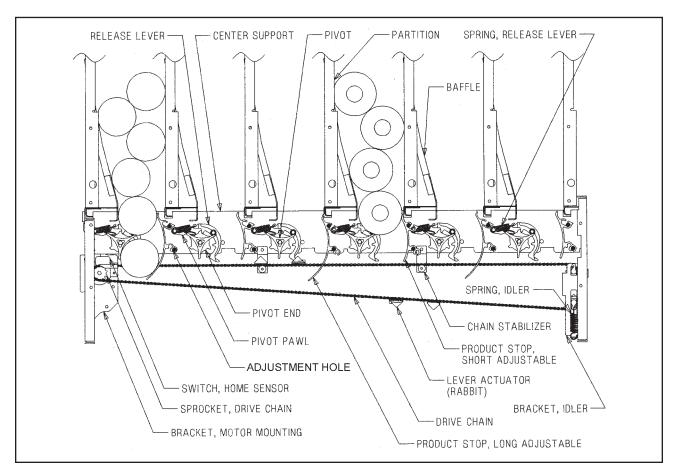


Figure 3.2

SECTION 3: Vender Component Explanation

The Electronic Refrigeration Cycle

- The temperature sensor (electronic thermometer) informs the board of the cabinet temperature. The boards function is to interpret the temperature and turn on/off according to the program setting for refrigeration.
- The control board activates the relay, turning on the compressor and condenser fan motors. The control board also deactivates the relay, turning off the compressor and condenser fan motors.
- 3. The compressor circulates refrigerant throughout the system by pulling low pressure refrigerant vapor from the evaporator coil, compressing it and forcing it into the condenser coil.

- 4 The condenser, aided by the condenser fan motor, removes heat from the refrigerant as it flows through the condenser coil and releases it to the outside environment. The dropping of the refrigerant temperature changes the vapor to a liquid.
- 5. The capillary tube controls the amount of refrigerant released to the evaporator coil.
- 6. The evaporator coil allows the vaporized refrigerant to absorb heat from the cooling compartment as it flows through the coil.
- 7. The falling temperature in the cooling compartment is caused by the continual circulation of refrigerant through the system, removing heat from the cooling compartment and transporting it to the outside environment.

Note: After the door is closed, there will be a 5-8 minute delay before the refrigeration system will come on.

REFRIGERATION SYSTEM

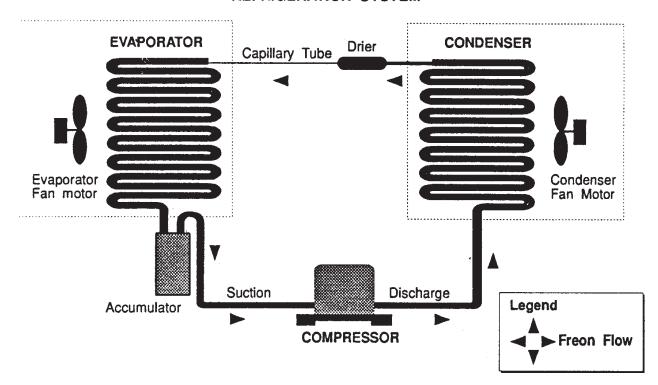


Figure 3.3

SECTION 4: Vend Sequence of Operation

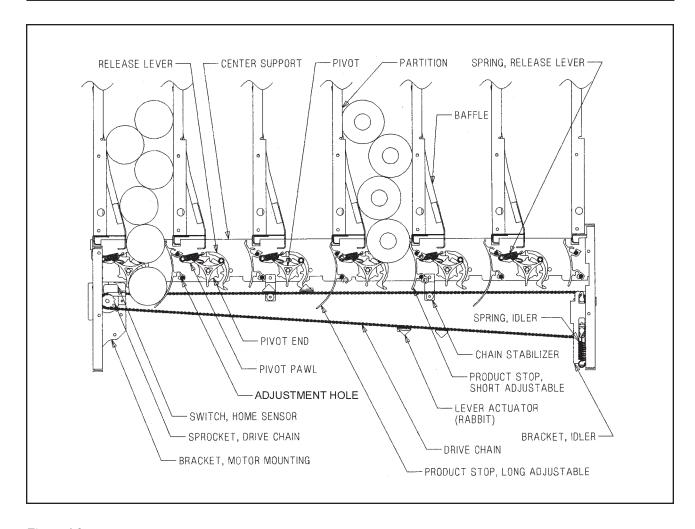


Figure 4.1

Vend Sequence (Figure 4.1)

NOTE: For proper operation, the vender must have several packages in each column. The "Correct Change Only" light will be on if a coin changer is present and sufficient coins are not in the tubes.

- 1. Credit inserted by the customer (coins, bills, debit card) is registered by the controller. A customer can only make a selection after sufficient credit has been inserted to satisfy the sales price setting.
 - **NOTE:** At any time prior to reaching a vend price, a customer may press the coin release lever on the outside of the vender, cancelling credit and escrowing all inserted money. If a bill or cashbox coin is inserted, this escrow is disabled. See "C-8 = Escrow Rule #1" for additional information.
- 2. When the customer presses a selection switch, the controller senses a selection has been made and immediately compares the amount of money validated to the sale price of the selected product.
- If the amount of money credited is the same or exceeds the sales price setting, the controller directs the vend motor to move the chain (clockwise rotation) to position the lever actuator to the vend position of the selected column.
- 4. After the position is verified by the encoder, the vend motor is directed to reverse direction (counterclockwise rotation). The chain drives the lever actuator ("rabbit") to engage and activate the release lever.

SECTION 4: Vend Sequence of Operation

- 5. The upper tooth on the release lever disengages the pivot end, allowing the pivot assembly to rotate one increment. At that time, the lower tooth engages the pivot end, preventing further rotation.
- 6. When the vend motor again reverses (clockwise rotation), the lever actuator pulls away from the release lever allowing the pivot to complete its rotation. It is at this point that double-depth product (e.g. a 12 oz. can) is released to the customer. The lever actuator strikes an additional time (two times total) for single-depth product (e.g. 20 oz. bottles).
- 7. The lever actuator ("rabbit") continues running in a clockwise rotation until the forward one of the two rabbits reaches the home position.
- 8. A delivery sensor on the bottom of the delivery chute indicates a product was delivered and signals the controller to reset and initiate a payback of change if too much money was inserted.

Sold Out

If the product selected is sold out, the digital display will indicate "SOLD OUT" and flash the "SOLD OUT" lamp, signalling the customer to make another selection or push the coin return lever for a full refund. The "SOLD OUT" lamp will continue to flash until a successful vend is completed.

If the vender is totally sold out of product, illumination of the "SOLD OUT" lamp and the "SOLD OUT" message on the digital display will be continuous. No money will be accepted into the vender in a total sold out condition.

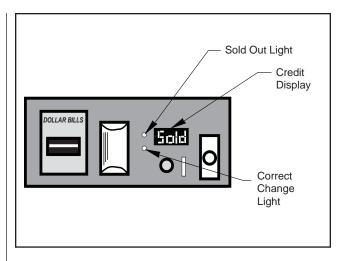
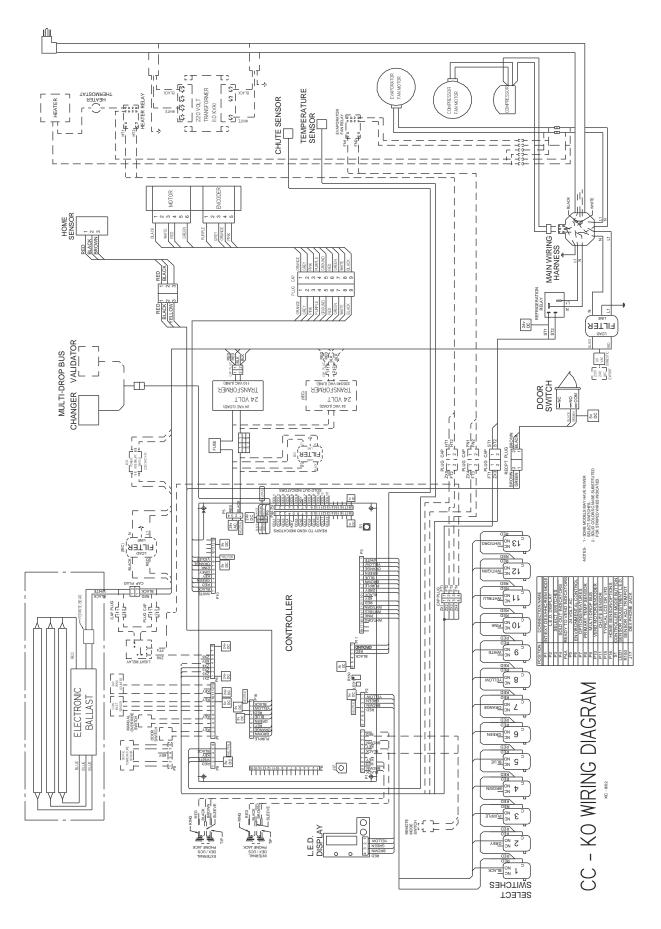


Figure 4.2

SECTION 5: Maintenance



SECTION 5: Maintenance

WHAT TO ADJUST

Chute Sensor: The chute sensor has been pre-set at the factory to sense product on the delivery chute. To return the setting to the factory default, locate the adjustment screw, which is at R150on the controller board (see view of G-III controller board). Slowly turn the adjustment screw clockwise until the adjustment LED lights. Next, turn the screw counter-clockwise until the adjustment LED barely goes out. Continue turning counter-clockwise 2 full turns from this point. Test by vend testing the exterior rear columns, and watch the chute sensor indicator light after the product hits the chute. The light should flash on and off.

This adjustment is necessary upon delivery chute replacement, chute sensor replacement, controller board replacement, or to return the vender to the factory setting.

WHAT TO CLEAN

Condenser:

Using a small light bristled brush, clean the condenser fins periodically. Keep it free from dust and debris. This will help the refrigeration system work more efficiently and possibly extend the life of the unit.

LIGHTING MAINTENANCE

The lighting system contains extremely high voltage (480+volts), and power should always be disconnected when working with or around this portion of the vender. Light bulbs should be replaced whenever one or more of the bulb ends are blackened or discolored, or when the lights are flickering or are not lit, and it has been determined that the bulbs are bad.

Troubleshooting

Refer to the Safety Segment of this manual and always remember to:

The G-III vender is equipped with a self-diagnostic feature to aid in the repair and maintenance of the vender. When servicing the vender, pay close attention to the digital display. When the vender door is opened the electronics will begin displaying any error codes that are stored in memory. If there are no errors, the display will read "nonE." See "Four-Button Programming" section of this manual.

To enter the Service Mode, press and release the Service Mode Button located on the controller. The display will read "Eror." If (ENTER) is pressed at the "Eror" prompt, the controller will enter the error display mode. If no errors have occurred since the last error reset, the display will show "nonE." If an error has been detected since the last error reset, the display will show the first error summary code that has occurred.

If (ENTER) is pressed, the controller will display the detailed error for the summary code. The (UP) and (DOWN) buttons will cycle through any remaining error detail codes. If (ABORT) is pressed while displaying any *detailed* code, the controller will return to the summary code. If (ABORT) is pressed while displaying any *summary* code, the controller will return to the code level.

NOTE: When troubleshooting errors with peripherals, the appropriate peripheral service manual(s) should also be consulted for further tests and corrective actions.

Error	Detailed Error Code	Test Procedure	Corrective Action
	EE (Excessive escrow: More than 255 escrow attempts since the last coin was accepted.)	Check the escrow lever and associated mechanisms. Go to Open-door Mode and wait for 30 seconds. Manually clear the error.	If vender returns to Sales Mode from Open-door Mode without input, replace changer / acceptor. If it stays in Open-door Mode and the manually-cleared error does not reoccur, system may be okay.
	nJ (Coin jam)	Check changer / acceptor for jammed coins or other obstructions.	If no obstructions are apparent, replace changer / acceptor.
	than 20% of the last 255 coins were rejected as slugs)	Check changer / acceptor for obstructions or dirt. Drop coins in Sales Mode or Tube Fill Mode to test acceptance.	If no obstructions are apparent and acceptance appears to be okay, this may be an indication of cheating attempts. If no obstructions are apparent and coins do not accept or acceptance rate is poor, replace changer / acceptor.
CHAr (Coin Acceptor Error) (continued on next page)	CC (Changer communication error)	If card reader / bill acceptor is being used, check for "rC" or "bC" errors. Unplug machine, wait at least five seconds, and replug.	If there is no "rC" or "bC" error: 1. Check the changer harness. 2. Replace the changer. If there is a "rC" or "bC" error, check the control board MDB harness.
	tS (Tube sensor error)	Check changer tubes for blockage.	Clear tube blockage, if found. If no blockage found, replace the changer.
	IC (Inlet chute blocked error: no coins sensed in the acceptor for over 96 errors)	Check inlet chute for blockage. Drop coins in Sales Mode or Tube Fill Mode to test acceptance. Manually clear the error.	Clear inlet chute blockage. If no blockage found, replace the changer. If acceptance rate is acceptable, system is probably okay. If acceptance rate is low or changer will not accept coins, replace the changer.
	tJXX (Tube jam error)	Check changer tubes and payout for blockage.	Clear blockage, if found. If no blockage found, replace the changer.
	CrCH (Changer ROM checksum error)	Unplug machine, wait at least five seconds, then replug machine. Manually clear the error.	If error does not clear, replace the changer.

 $[*]Remove\ power\ from\ vender\ when\ troubleshooting\ without\ a\ voltmeter;$

^{*}Always use voltmeter when checking voltage; and

^{*}Beware of high voltage areas! Take extreme caution when working in these areas.

^{*} Error code must be manually cleared. See "Eror" section of this manual for detailed instructions.

Error	Detailed Error Code	Test Procedure	Corrective Action
CHAr (Coin Acceptor Error) (continued from previous page)	CSF (Changer's scale factor is not valid for the machine configuration)	Ensure that changer, bill acceptor, and card reader are all models for the same country. Unplug machine, wait at least five seconds, the replug machine.	If models are compatible, replace the changer.
	bC (Bill Communication Error)	If changer or card reader is being used, check for "CC" or "rC" errors. Unplug machine and wait at least five seconds. Plug machine back in.	If there is no "CC" or "rC" error: 1. Check bill acceptor harness. 2. Replace bill acceptor. If there is a "CC" or "rC" error, check the control board MDB harness.
	bFUL (Full bill stacker)	Ensure bill cashbox is empty and that the cashbox is properly closed and in place.	If cashbox appears to be okay, replace bill acceptor.
bUAL ** (Bill	bILL (Bill acceptor motor is defective)	No test available.	Replace bill acceptor.
Validator Error)	bJ (Bill jam)	Check bill acceptor for obstructions or dirt.	If no obstructions are apparent, replace bill acceptor.
	brCH (Bill acceptor ROM checksum error)	Unplug machine, wait at least five seconds, then replug machine. Manually clear the error.	If error does not clear, replace bill acceptor.
	bOPn (Open cash box)	Check the the bill cashbox is closed and in the correct position.	If cashbox appears to be okay, replace the bill acceptor.
	bS (Sensor error)	Check bill acceptor for obstructions or dirt.	If no obstructions are apparent, replace the bill acceptor.
Crdr (Card reader error)	CrC (Card reader communication error)	If changer or bill acceptor is being used, check for "CC" or "bC" errors. Unplug machine, wait at least five seconds, then replug the machine.	If there is no "CC" or "bC" error: 1. Check the card reader harness. 2. Replace the card reader. If there is a "CC" or "bC" error, check the control board MDB harness.
	CrXY* (Card reader error code XY: see card reader manual for description of error codes)	No test available.	Refer to card reader manual for corrective action.
	OC (Online module communication: no communication for five seconds)		Proper communications.
OLn (Online module)	OnC (Online network communication: network is not responding; OLM cannot call out)		Proper communications.
	OI (Online module internal problem, causing improper functions)		
rUnd (Remote vend)	rUC (Remote vend mechanism: no communication for five seconds)		Proper communications.
S-d (Selection /	SdC (Display device communication: no communication for five seconds)		Proper communications.
display device)	SdXX (Error code number XX: see device spec for description of error codes)		

^{*} Error code must be manually cleared. See "Eror" section of this manual for detailed instructions.

These error codes will be automatically cleared when the validator reports no errors and is enabled (the validator is "enabled" when it accepts money).

Error	Detailed Error Code	Test Procedure	Corrective Action
	SEnS (Unplugged or defective temperature sensor error)	Check the temperature sensor connection at the control board to make sure the sensor is plugged in. Check to see that it is wired properly and the pins are making contact.	If the sensor is unplugged, replug it. If it is miswired, replace the temperature sensor. If the connections are bad, attempt to repair them or replace the temperature sensor if it is unrepairable.
	CoLd (Temperature 3°F / 1.5°C or more below the compressor cut-out setting)	1. Check the refrigeration unit before opening the vender's main door to see if it is running. 2. Open the vender's main door and see if the unit cuts off. 3. Make sure the vender's door switch is working properly. 4. Unplug one of the two white wires plugged into the refrigeration relay.	If upon unplugging one of the white wires, the unit stops: 1. Check the temperature sensor reading. 2. Check SetP settings. 3. Check the two white wires for shorts from the control board. If upon unplugging one of the two white wires, the unit still runs: 1. Unplug one of the black wires. If the unit stops, replace the refrigeration relay. If optional heater kit is not installed, one may be required. 2. If heater kit is installed and heater does not turn on (heater relay does not click upon energizing with the relay test mode), check the two white wires from the board to the heater relay for voltage. (There should be 24 VDC on one of the two wires.) Check the other wire for continuity between the control board and the relay. If voltage is okay, replace the relay. Otherwise, replace the control board.
rFrG (Refrigeration error)	Hot (Cabinet temperature is above the limit)	Proceed with normal refrigeration troubleshooting. Refer to the refrigeration troubleshooting flowchart.	
	Htr (Heating system has failed to increase 1°F / 0.5°C per hour)	Proceed with normal refrigeration troubleshooting. Refer to the refrigeration troubleshooting flowchart.	
	CnPr (Compressor is not cooling within 30 minutes of turning on)	Check the refrigeration unit before opening the vender's main door to see if it is running.	If the unit is running, clear the error to see if it reoccurs.
		Open the vender's main door and check the display to see that the door switch is working as normal.	If the display does not function as normal, check the door switch circuit.
		Access the "rFrG" mode and check the "SetP" settings. While in "rFrG," change "dSP" to "1" to show the temperature on the display during the greeting and see if it is correct.	Change any settings, if necessary, and check the temperature sensor operation.
		While in the "tESt" mode, access the "rELy" mode and turn the compressor on.	If the unit does not run (refrigeration relay not clicking upon energizing with the relay test mode), check the two white wires from the board to the refrigeration relay for voltage. There should be 24 VDC on one of the two wires). Check the other wire for continuity between the control board and relay. Note: The compressor relay test mode must be on to check voltage.

^{*} Error code must be manually cleared. See "Eror" section of this manual for detailed instructions.

Error	Detailed Error Code	Test Procedure	Corrective Action
SEL (Selection switch error) closed for more than 25 seconds, where "XX" indicates the selection 2 The switch is sticking; 2 The switch is sticking; 2 The switch is sticking; 2 The switch is sticking / defective.		Try to correct the problem if one of the three is found. If it cannot be corrected, replace the component in question.	
StS (Space-to- sales error)	UAXX (Unassigned column, where "XX" indicates the column number)	Access the Space-to-sales Mode ("StoS") and go to Custom Space-to-sales ("CStS"). Check all selections for the column shown in the detailed error code "XX."	Change the space-to-sales settings as required. In some situations, it may be quicker to completely reset all space-to-sales settings.
		Observe the chain to make sure the four actuators ("rabbits") are attached. Make sure two of the four actuators have magnets pressed in them.	If defective, replace the chain assembly.
		Make sure that the magnets are facing the rear of the cabinet.	If the magnets face forward, the chain is installed backward. Remove the chain and reinstall it so that the magnets face the rear of the cabinet.
	hS* (Home sensor error)	Check the location of the chain. The actuators should be at each end of the cabinet. Pull the chain until both sets of actuators are in the middle of the cabinet. Power the vender down, then restore power. The bottom set of actuators should end up in the home position.	If the motor jerks but does not rotate the chain, check the motor's wiring to the control board. If nothing is found, replace the vend motor assembly. If the chain rotates several times without an actuator stopping above the vend motor (at the home sensor), check the above test. It is is okay, then check the home sensor wiring to see if it's pinched or shorted. Replace the home sensor if nothing is found.
UEnd (Vend mechanism error)	EC* (Encoder error)	Learn how column sequencing works and vend from all columns, watching the actuators locate each column.	If the encoder is defective, the vend motor will not be able to find the release levers for one or more of the columns and will stop at a place where there is no release lever. Replace the vend motor assembly. This error may also indicate that the chain is sticky, making it difficult for the chain to move. See "Taking Care of the Vender" on how to clean the chain.
	rE* (Rabbit error)	Closely examine the four rabbits (actuators) mounted on the chain assembly. Make sure they are tightly mounted and none are missing.	If an actuator is missing, replace the chain assembly.
		Check to make sure that the upper run of the chain assembly is above the stabilizers.	If the upper run of the chain assembly is below the stabilizers, raise it above them.
		Check the chain's alignment under the mechanism. Check the idler pulley sprocket and the vend motor sprocket to see if aligned.	If the idler pulley sprocket is in the wrong position on the shaft, order a new idler sprocket assembly. If the vend motor sprocket is in the wrong position on the shaft, order a new vend motor assembly.
Chut (Chute sensor error)	CS* (Chute sensor error: chute sensor is active for more than five minutes)	Check to make sure the sensor is properly adjusted. Make sure the adjustment only blinks on when product impacts the delivery chute.	Adjust the sensor to factory spec. See "Taking Care of the Vender" in Section 5 for detailed instructions.

^{*} Error code must be manually cleared. See "Eror" section of this manual for detailed instructions.

Error	Detailed Error Code	Test Procedure	Corrective Action
	CJXX* (Column jam error, where "XX" indicates the column number)	Check column for problem.	Correct problem.
		Check for contamination on release lever, pivot, and pivot end.	Clean contamination.
COLJ (Column jam error)		Enter "tESt" and vend one time from column.	If two or more products are received, increase chute sensor sensitivity or replace chute sensor. To increase sensitivity, turn screw clockwise. See "Chut" section.
	dS * (Door switch error)	Check the vender's door to see if it's sticking or miswired. If nothing is found at the door switch, check two wires from door switch to control board to see if they're pinched or shorted.	Replace the door switch, if defective. Repair or replace the door switch harness to the control board.
	ACLo* (Average rectified voltage was under 22 VDC for at least 30 consecutive seconds)	Check for low voltage at the wall outlet, at refrigeration unit startup with all else on circuit running, in an "extreme" condition.	If low voltage cannot be found on the wall outlet in an extreme condition, check for shorts in the vender.
Ctrl (Control	rAM (Setup info corrupted)	No test available.	If error shows up frequently, replace the control board.
system error)	SF (Scale factor error)	Check the connections of the changer harness. Make sure the changer is plugged in and is working.	Make corrections to the harness or replace the changer if necessary.
	IS (Inlet sensor blocked)		Check the changer harnessing for cut, pinched, or crimped wires. Replace the changer.
	lb (Inlet blocked)		Check the inlet for blockage. If nothing is found, check the changer harnessing for cut, pinched, or crimped wires. Replace the changer if necessary.

Error / Problem	Possible Cause / Test Procedure	Corrective Action			
COIN ACCEPTANCE / PAYOUT (R	RECORD ALL ERRORS ON PAPER)				
	No power to board.	Check to make sure the LED and the sign lighting are lit. Check fuse and transformer.			
	Harness from coin mech to board is cut or disconnected.	Using a voltmeter, check each wire for continuity and to ground.			
Coin mechanism will not accept coins.	Short in coin mechanism.	Unplug all connections from the control board except the transformer and coin mech connections. Test acceptance. If it accepts, replug each connection one at a time and test acceptance after each.			
	Acceptor is dirty or other problem may exist (not tuned).	Clean acceptor or contact your local coin mech distributor.			
	Short in control board.	If above procedures do not work, replace control board.			
No acceptance or rejects a percentage of good coins. (continued on next page)	Coin return lever pressing down on acceptor's coin plunger. Make sure changer is mounted and the coin return lever is in the position.				
	Acceptor is dirty or foreign matter is in the path.	Clean acceptor or contact distributor.			

^{*} Error code must be manually cleared. See "Eror" section of this manual for detailed instructions.

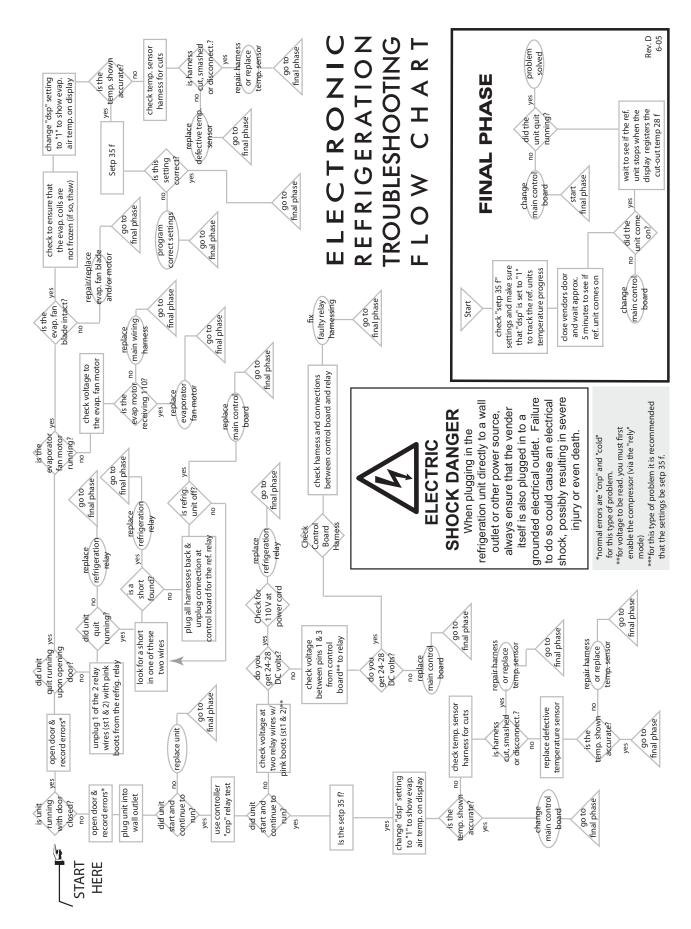
Error / Problem	Possible Cause / Test Procedure	Corrective Action
No acceptance or rejects a percentage of good coins. (continued from previous	Coin changer is improperly tuned (if tunable).	Contact manufacturer for tuning.
page)	Defective control board.	Replace / test control board.
Always accepts coins but gives erratic / no	IF NO CREDIT: Defective harness between coin mech and control board (will have "CC" error).	Check harness for cut wires or wrong / bad connections. Test each wire for continuity or test to ground. If found to be defective, replace the harness.
credit.	IF ERRATIC OR NO CREDIT: Acceptor or coin mech.	Replace coin mech and test.
	IF NO CREDIT: Defective control board.	Replace control board.
	Defective harness from coin mech to control board.	Test vender's manual coin payout. If vender won't pay out using the CPO mode or during sales, check harness for cuts, bad continuity, or wrong connections. If defective, replace and test.
Changer will not now out oning	Defective coin mech.	Replace coin mech and test. If it pays out, the coin mech was defective.
Changer will not pay out coins.	Defective control board.	If coin mech won't pay out coins manually in the CPO mode or during the Sales Mode and the above procedures have failed, replace the control board and test payout both in the CPO mode and during a sale.
	Change payout buttons are disabled while door is closed or while in Open-door Mode.	Enter the Service Mode or access the Coin Payout Mode ("CPO").
BILL ACCEPTANCE		
	No power to validator.	Unplug vender for 10 seconds and replug to see if bill acceptor cycles. If not, check acceptor harnessing or replace the bill acceptor.
	Wrong acceptor harness or wires of the harness are in the wrong position.	Make sure that the acceptor harnessing is correct for your style of acceptor and that it is wired properly.
Bill acceptor won't pull bill in.	Acceptance disabled by coin mech (if present), or bad harnessing.	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 harnessing is correctly connected and has continuity. Repair or replace if necessary.
	Replace acceptor and test. If acceptor pulls bill in, acceptor was defective.	Replace bill acceptor.
Bill acceptor takes a bill but will not	Defective acceptor harness (credit not getting from acceptor to control board through the harness).	Make sure that the acceptor harnessing is correct for your style of acceptor and it is plugged in / wired properly.
establish a credit.	Defective acceptor.	Replace / test acceptor.
	Defective control board.	Replace / test control board.
	Defective / wrong acceptor interface harness.	Refer to bill acceptor service manual or bill acceptor representative.
Bill acceptor takes a bill and credits, but credit will not erase.	Defective bill acceptor.	Replace acceptor, and test acceptance and erasure of credit.
	Defective control board.	Replace / test control board for erasure of credit.
Acceptor takes a bill and allows payback of coins without a selection.	Controller configurations not set properly.	Access vender configurations mode and check the Forced Vend Attempt setting.

Error / Problem	Possible Cause / Test Procedure	Corrective Action		
VENDING PROBLEMS				
Multiple vending (not cancelling credit)	If multiple vending is from all selections, delivery sensor is cut or improperly grounded. NOTE: If the sensor is not present or is cut (defective), the GIII will allow up to two products from each column assigned to be vended before the column is determined to be sold out.	Factory adjustment for the trim pot screw on the controller: 1. Turn screw clockwise until the light comes on. 2. Turn screw counterclockwise until the light goes out. 3. Continue turning counterclockwise 2 full turns. 4. Vend test on columns 7 and 12, and watch the light on the board. Make sure the only time the light comes on is when a product hits the can chute.		
	Depth setting not set correctly in "SdEP" mode (may be set to single depth).	Enter "SdEP" mode and check the setting to make sure it is correct. Refer to "SdEP" section of this manual. NOTE: "SdEP" is <u>always</u> set by selection number.		
	Mechanical error.	Check for correct operation of the pivot, pivot end, and release lever. Verify that both adjustable product stops are set to the correct position for the package type.		
	Misload by vender loader.	Ensure that all product within each column is the same.		
	Space-to-sales not set properly.	Look for StS error. Check or reset space- to-sales.		
	Miswired selection.	Check the wiring from the control board to the selection switches.		
Wrong product vending upon selection.	Bad encoder (motor assembly). ("UEnd" error should be displayed.)	Watch vend cycle from under stack mechanism. Know the columns you're vending from (preferably one column assigned to the selection). If the lever actuators (rabbits) do not come close to this column upon vending, change the motor assembly.		
	Chute sensor too sensitive, or a column is jammed or sold out.	Check to see if the delivery chute sensor adjustment LED is constantly on. If so, adjust it back to factory setting. See "Taking Care of the Vender" in Section 5. Check adjustable product stops to ensure that both are set to the correct position.		
No vend upon selection. Dry vend (no refund).	Defective chute sensor.	Unplug the sensor's connection from the control board. Watch the LED. If the adjustment LED goes out, replace the defective sensor.		
	Defective control board.	If the adjustment LED stays on after unplugging the sensor from the control board, power it down (pull the fuse), and unplug everything from the control board except the main power lead. Reinsert the fuse. If the adjustment LED immediately lights up, turn the screw counterclockwise to see if the light goes out. If not, replace the control board.		
Will vend from some but not all columns (allows refund or second choice). (continued on next page)	Select button, switch, or harnessing.	Check the selection switch. Trace the selection harness back to the control board. Replace if necessary.		

Error / Problem	Possible Cause / Test Procedure	Corrective Action
Will vend from some but not all columns (allows refund or second choice). (continued from previous page)	Defective encoder. ("UEnd" error should be displayed.)	Watch vend cycle from under stack mechanism. Know the columns you're vending from (preferably one column assigned to the selection). If the lever actuators (rabbits) do not come close to this column upon vending, check the motor connections at the control board and in the bottom of the door. If the connections look good, replace the vend motor assembly.
Complete sold-out condition, motor rotates chain several times, then the display shows "Sold Out" or "Out of Order."	Home sensor, chain, or lever actuators (rabbits).	Pull chain out into the middle of the column and unplug power to door, then replug. If the motor rotates the chain several times without finding the home position, check / change the home sensor and chain.
	Timer is enabled or "StS" has been cleared.	Disable timer control. Check space-to- sales settings; reprogram if necessary.
Complete sold-out condition.	Door switch not working.	Open the vender's main door, and make sure the LED displays the Service Mode. If not, check for voltage (5 VDC) with a voltmeter at the door switch. If voltage is found, replace the door switch. If not, check for voltage (5 VDC) at the door switch's pinout on the control board. If no voltage is found there, replace the control board.
MISCELLANEOUS PROBLEMS		
	Door switch wiring incorrectly connected or cut / pinched.	Check for cuts on the two door switch wires going from the switch to the control board. Also, check for bad connections.
Display shows "Sold Out" immediately upon pressing selection button of a full column (sold-out condition not clearing).	Door switch.	Check the door switch to see if it is defective. Use a voltmeter to measure for voltage between the COM / NO positions and COM / NC positions.
	Control board.	Check the control board by checking voltage across the two pins for the door switch at position P16 on the board. If no voltage is found, replace the control board.
Vender appears dead; no digital display and no lights.	Defective main harness. Secondary power harness to the transformer. Lights defective.	Replace main wiring harness. Replace secondary power harness. (See interconnect drawing.)
No digital display; vender lights are on.	Transformer not properly connected or defective.	Check transformer connection. Check power with voltmeter from transformer to control board. (See interconnect drawing.) Replace if necessary.
The digital display, volude lights are on.	Defective display or display harness.	Check display and display harness. Replace if necessary.
	Defective control board.	Replace control board.
Vandar aaralla massassa on dissilati kut	Changer out of tune.	Refer to changer manual or contact distributor.
Vender scrolls message on display but does not accept money.	Defective changer.	Replace changer.
-	Defective control board.	Replace control board.
Vender accepts money but does not	Defective changer.	Replace changer.
establish credit.	Defective control board.	Replace control board.
Vender accepts and credits money but does not vend (does not indicate a sold-out	Defective selection switch.	Check selection switch. Replace if necessary.
condition).	Defective selection switch harness.	Check harness. Replace if necessary.
	Defective control board.	Replace control board.

Error / Problem	Possible Cause / Test Procedure	Corrective Action
	Vender loaded incorrectly.	Correct loading.
Vender delivers wrong product.	Defective encoder.	Replace vend motor assembly.
	Defective control board.	Replace control board.
	Chips on control board not seated properly (GII VII and EVS control boards).	Seat the chips down properly.
	Bad LED connection.	Scrape the pins on the LED and reinstall harness.
Flashing 8's across the LED.	Defective control board.	Unplug everything from the control board except the LED and main power. If the 8's remain, replace the control board.
	Defective components.	If the 8's have disappeared from the previous step, begin plugging in harnesses one at a time. Replace whatever causes the 8's to reappear.
Oalid Ola assess that LED	Defective LED.	Replace LED and / or harness.
Solid 8's across the LED.	Defective control board.	Replace control board.
"Out of Order" on the LED.	Defective home sensor, chain assembly, or control board.	Make sure the lead actuator ("rabbit") is at the top of the vend motor (in the home position). Make sure the magnet on the lead actuators face toward the rear of the cabinet. Check voltage with a voltmeter at the control board, position P16. Check for 5 VDC across pins 1 and 3. The two wires will be red and black. If voltage is found, check for the same voltage at the bottom of the door. This will be a three way connector. Replace whatever it is that you do not find voltage at. If the correct voltage is found everywhere, replace the home sensor.
ELECTRONIC REFRIGERATION		
Refrigeration unit will not run. The cabinet temperature reads 255°F / 124°C or 17°F / -8.5°C.	Defective temperature sensor.	Check connection. Replace temperature sensor.
	Unplugged temperature sensor.	Make sure temperature sensor is securely plugged in at control board.
Vender will not display a temperature when "dSP" is set to "1."	Defective temperature sensor.	Unplug the existing sensor, and plug the new sensor up. Ground the new sensor to the board. Hold down the door switch, and see if the LED displays a temperature.
	Defective control board.	If it does not display a temperature, replace the control board.
Refrigeration unit will not run.	Defective unit.	Plug the unit directly to the wall outlet to see if it runs and cools. If not, then replace the unit. (DANGER: ELECTRIC SHOCK HAZARD. When plugging in the refrigeration unit directly to a wall outlet or other power source, always ensure that the vender itself is also plugged in to a grounded electrical outlet. Failure to do so could cause an electrical shock, possibly resulting in severe injury or even death.)
Unit will only run in the compressor relay test mode. (continued on next page)	Defective door switch.	Open and close the door to make sure the LED scrolls. If not, then check the door switch, harness, or control board.

Error / Problem	Possible Cause / Test Procedure	Corrective Action
Unit will only run in the compressor relay test mode. (continued from previous page)	Defective temperature sensor.	Set "dSP" to "1" in Refrigeration Mode. If the temperature shown is innaccurate, replace the temperature sensor.
test mode. (continued from previous page)	Wait for the delay after the door is closed (5 to 10 minutes).	Wait to see if the unit comes on. If not, replace the control board.
	Defective control board.	Check for 24 VDC with a voltmeter across pins 1 and 3 of the control board. If no voltage or incorrect voltage is found, replace the control board.
Unit will not run in the compressor relay	Defective adapter harness (GII VII and EVS boards).	Check wires 1 and 3 for the same voltage as above with a voltmeter. Replace if incorrect.
test mode. NOTE : Leave the compressor relay test mode on in order to check for voltage with the voltmeter.	Defective regulator board (GII VII and EVS boards).	Check for 24 VDC with a voltmeter across pins 1 and 3 at the top of the regulator board. Replace if incorrect.
	Defective relay harness.	Check for 24 VDC with a voltmeter at the relay across the two wires with pink connectors. Replace if incorrect.
	Defective relay.	Check for 115 VAC on the contact side of the relay with a voltmeter. Replace if incorrect.
	Defective door switch.	Upon opening the door, the LED should not show "Ice Cold". If it does, check the door switch wiring. Replace the door switch if necessary.
	Defective control board.	Replace the control board.
Refrigeration unit runs constantly.	Adapter harness wired incorrectly (GII VII and EVS boards).	Check to make sure the harness wires are in order, from ZX1 to ZX6. Correct the wires if wrong.
	Defective relay. Contacts are welded together.	Unplug one of the wires with the pink connectors from the relay. Also unplug the 115 VAC side of the relay. If the unit cuts off, replace the relay.
	Defective main power cord.	If the unit continues to run after unplugging everything from the relay, replace the main wiring harness (junction block).
	Check the steps above if the unit runs when the door is open.	See above.
	Evaporator fan not running.	Check the wiring to the evaporator fan. Check for 115 VAC with a voltmeter. If no voltage is found, replace the junction block. If the correct voltage is found, replace the evaporator fan motor.
Evaporator freeze-up.	Air leaks around the inner door or port body.	Check for condensation around the inner door for air leaks. Ensure the door is tightened down far enough. Make sure the port door is not held open.
	Mullion area not properly sealed (area where the harnesses enter the cabinet).	Apply permagum.
	Drain tube clogged.	Check to make sure water can freely flow through the drain tube.
	"SetP" set too low.	Increase "SetP" to 40°F / 4.5°C.
	Refrigeration unit low on coolant.	Replace refrigeration unit.



SECTION 6: Optional Equipment

G-III Options

Kits For Vending Additional Packages

These kits were the latest available at the time of publication of this manual. For the latest information on kits that will enable the G-III to vend other packages, please contact Royal Vendors' Customer Service Department.

SURGE/BOLT 20 OZ. PACKAGE

In general, all G-IIIs with serial numbers after 1415XX-XXXX are capable of vending the Surge/Bolt package as delivered from the factory. If you are unsure as to the configuration of your vender or want to order the Surge/Bolt package kit for earlier venders, please contact Royal Vendors' Customer Service Department.

POWERADE 20 OZ. PLB

In general, all G-IIIs with serial numbers after 1381XX-XXXX are capable of vending the Powerade 20 oz. PLB package as delivered from the factory. Some earlier serial number venders are also Powerade capable. If you are unsure as to the configuration of your vender or want to order the Powerade kit for earlier venders, please contact Royal Vendors' Customer Service Department.

EVIAN AND NAYA 500 ml (16.9 oz.) WATER BOTTLES

All G-IIIs, no matter when they were manufactured, will require a kit to vend the Evian and Naya 500 ml water bottles. Please contact Royal Vendors' Customer Service Department for information.

Hand Held Computer (HHC)

The G-III Vender interfaces with the Direct Exchange/ Uniform Communications Standard (DEX/UCS) and DEX/UCS Compatible Hand-held Computers (HHC). The HHC may be used to program the G-III Vender's vend price and (STS), as well as other pertinent MIS and security information. The HHC interfaces to the vender's controller board via the computer socket located near the top of the main door. Once the HHC is connected and meets initial communication requirements, it may then be used to program the G-III Vender. For more information on the HHC, see separate HHC manual.

External MIS Plug

An external MIS Plug is available with Kit #842099 *Install in accordance with kit instructions.*

Light Kit

Kit # 141160 (Non-CDC) Kit# 161110 (CDC)

Heater Kit

Kit # 141130

Override Key Switch Kit

Kit # 231107 (GII VII / EVS) Kit # 290007 (KO)

U-Hinge Retrofit Kits

Kit # 164110, Black Kit # 294110, Red

Enclosed Coin Cup Kits (Landscape

Venders)

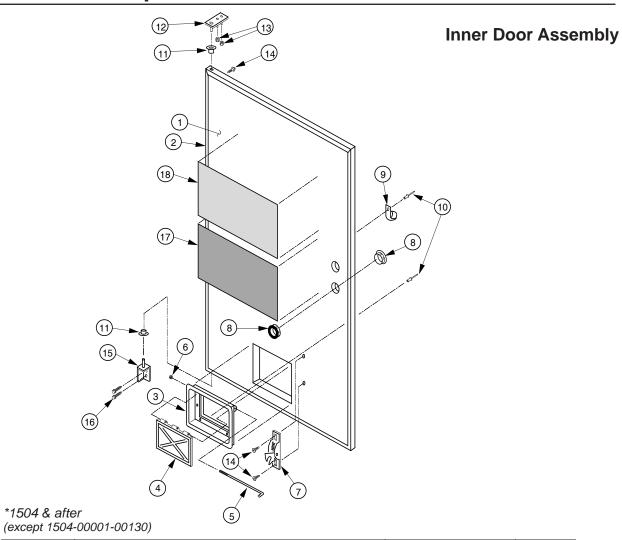
Kit# 231575, Narrow Port Kit# 303140, Wide Port

T8 Electronic Ballast Retro Kit

Kit# 292590, Marketing Kit# 303570, Landscape

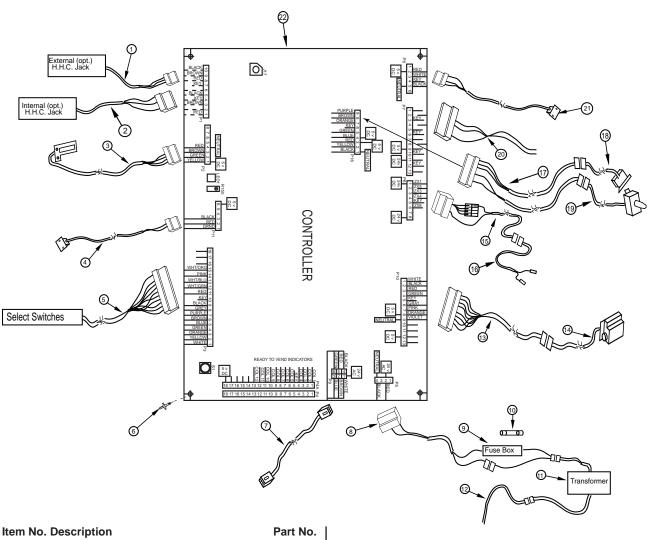
Evaporator Fan Retro Kit (Energy Efficient)

Kit# 231070



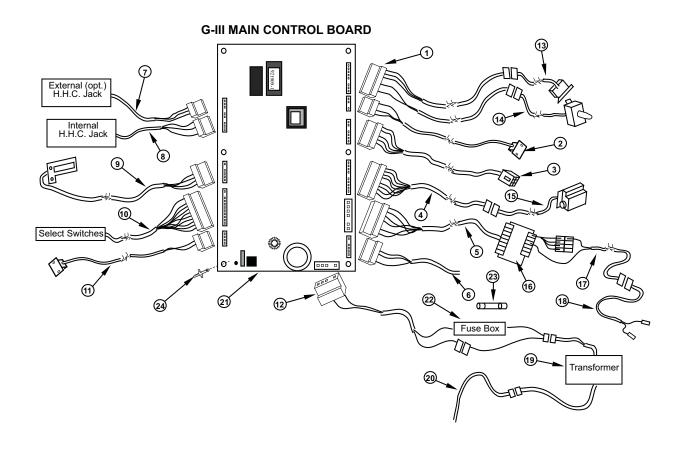
Item No.	Description	Part Number	Qty.
1	Inner Door Assy, 72"	211607	1
	-79"	210609	1
	-72" Narrow*	289610	1
	-79" Marketing*	290605	1
	-72" Marketing*	291605	1
	-72" Narrow Marketing*	293605	1
2	Gasket, Inner Door, 72"	815032	1
	-79.5"	815033	1
	-72" Narrow	815219	1
3	Port Door Frame	815191	1
4	Port Door	815192	1
5	Port Door Rod	811028	1
6	Lock Nut, #6-32	905006	1
3-6	Port Door Assy	810053	1
7	Burst Open Latch	812002	1
8	Bushing, 1.38"	916003	2
9	Clamp, Cable, 1"	916004	1
10	Rivet, 3/16" Diameter	908002	2
11	Bushing, Inner Door	815026	2
12	Hinge, Inner Door (Top)	010520	1
13	Nut, #8-32	905001	2
14	Screw, Self-drilling, #8-18x1/2"	902001	50
15	Hinge, Bottom, Door	010550	1
16	Bolt,1/4-20x1"	901003	2
17	Interconnect Decal, G-III	931356	1
18	Vender Controller/Space-To-Sales, Decal, G-III	931225	1
	-E.V.S.	931352	1

KO Control Board and Wiring



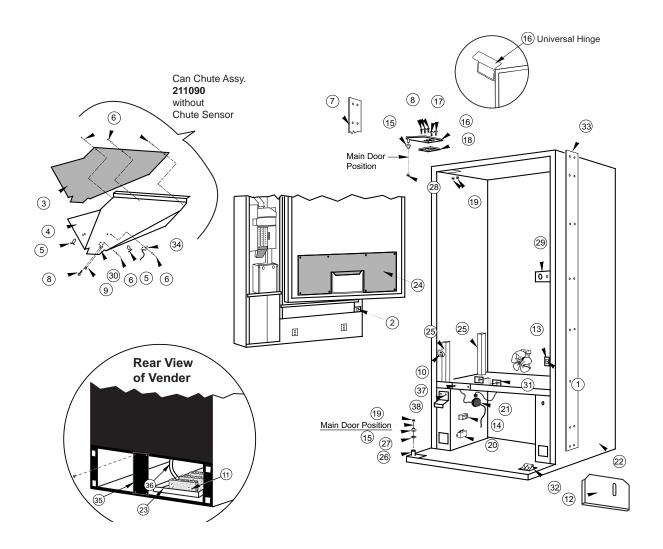
Item No	o. Description	Part No.			
1 2 3 4	External Dex Harness (Opt)	. 842148 . 842081	Item No.	. Description	Part No.
5	Selection Switch Harness	. 00000	13	Vend Motor Harness	842083
•	- 13 Select	. 842216	14	Vend Motor Assembly	
	- 12 Select	842472	15	Refrigeration Relay Harness, Door Side,	
	- 9 Select, Landscape	842044		Landscape	842236
	- 9 Select, Marketing	842217		- Marketing	842235
	- 8 Select, Marketing	842473		- Evaporator Fan Relay Harness, Door Side	e 842281
	- 8 Select, Chameleon	. 842587	16	Refrigeration Relay Harness, Cabinet Side	842237
	- 6 Select, Chameleon	842593		- Evaporator Fan Relay Harness, Cab. Side	842623
6	Board Stand-off	916066	17	Door Switch / Home Sensor Harness	842080
7	Serial Changer Extension Harness	842244	18	Home Sensor Harness, Cabinet Side	842052
8	Fuse to Board Harness	. 842146	19	Door Switch Harness, 1520 and before	842047
9	Fusebox Assembly	. 842219		- Landscape, 1521 and after	842228
10	Fuse, 3-amp	942111		- Marketing, 1521 and after	842229
11	Transformer Assembly	. 842147	20	OptionsCall RV Custom	
12	Main Door Harness	. 842151	21	Temperature Sensor	822030
	- Gas Island Vender	. 842207	22	KO Control Board	836180
			1		

EVS Control Board and Wiring



Item No.	Description	Part No.	Item No.	Description	Part No.
1 2 3	Door Switch / Home Sensor Harness Temperature Sensor MDB Serial Harness	822030 842079	14	Door Switch Harness, 1520 and before Landscape, 1521 and after Marketing, 1521 and after	. 842228 . 842229
4	Vend Motor Harness		15	Vend Motor Assembly	
5 6	Regulator Board Harness		16 17	Refrigeration Regulator Board Refrigeration Relay Harness, Door Side,	. 836081
7	MIS External DEX Harness	842095		Landscape	. 842236
8	MIS Internal DEX Harness	842110		- Marketing	. 842235
9	LED Harness	842081	18	Refrigeration Relay Harness, Cabinet Side	. 842237
10	Select Switch Harness		19	Transformer Assembly	. 842147
	-13 Select	842216	20	Main Door Harness	. 842151
	- 9 Select, Landscape	842044		- Gas Island Vender	. 842207
	- 9 Select, Marketing	842217	21	EVS Control Board no longer	available
	- Gas Island	842204	22	Fusebox Assembly	. 842219
11	Chute Sensor Harness	836004	23	Fuse, 3-amp	942111
12	Fuse to Board Harness	842146	24	Board Stand-off	
13	Home Sensor Harness, Cabinet Side	842052			

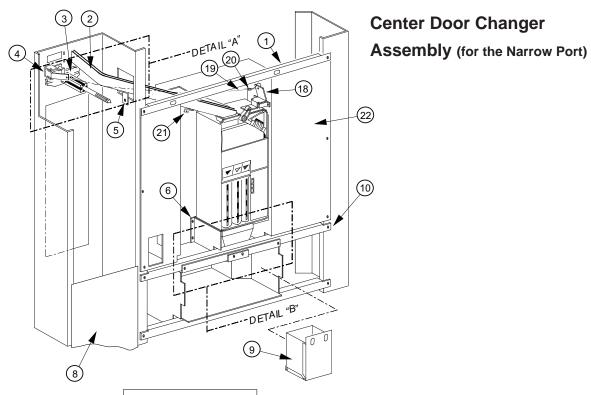
Cabinet Assembly

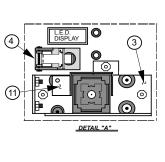


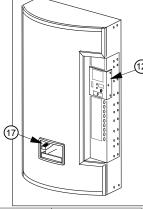
Cabinet Back Screen Mesh, Wide, 141001 -Narrow, 258004 Cabinet Back Screen Steel, Wide, 010215 -Narrow, 258005

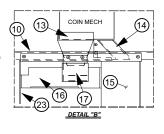
Cabinet Assembly

Item No.	Description	Part No.
1	Door Switch, 1520 and before	835003
2	Door Switch, 1521 and after	835019
3	Delivery Chute Liner	
4	Delivery Chute	
5	Clip, Tension	916059
6	Rivets, 1/8"	908004
7	*Left Vandal Panel, 72"	142001
	*-79"	141002
	-79", UHR	141022
	-72", UHR	142022
8	Bolt, 1/4-20 x 1"	901003
9	Screw, #8-18 x 1/2"	902004
10	Cable Clamp	916004
11	Sponge	815037
12	Condenser Baffle	010403
13	Bracket, Door Switch	010045
14	Relay	836065
15	Bushing, Nyliner	
16	Hinge, Top Left	
	-Universal Hinge, Black	
17	Bolt, Carriage, 1/4-20x1	
18	Spacer, Top Hinge	
19	Keps Nut, 1/4-20	
20	EMI Filter	
21	Main Wiring Harness, inside cabinet, 200714 and after	
	- To wall outlet, 200714 and after	
	- Entire harness, 200713 and before	842063
22	Cabinet Assy., 79.5"	
	- 72"	
23	Condensate Pan	
24	Inner Door Cover Assy	
25	Support, Rack	
26	Hinge, Bottom, Main Door	
	-Universal Hinge	
27	Washer, Flat	
28	Keps Nut, 3/8-16	
29	Latch Strike Assy.	
	-After 1530	
30	Bracket, Chute Locator	
31	Bracket, Cabinet Chute	
32	Door Roller Kit	
33	*Vandal Panel, Cabinet, Right, 79.5"	
00	*-72"	
34	Chute Sensor	
35	Rear Baffle	
36	Drain Tube	
37	Wiring Cover Plate	
38	Door Switch Actuator	
•	Temperature Sensor Mounting Bracket, 200722 and after (below chute assembly)	
•	1/4 Bolt for Latch Strike	
•	Drain Pan Hose Clip	
	Diam i an i 1000 Onp	









Item No.	Description	Part Number
1	Changer Vault Brace	161518
2	Coin Chute Assy., CDC, 79.5"	161590
	-72"	162540
3	T-Handle Brace (See Detail A)	141513
4	Button Lever Assembly	161594
5	Coin Chute Bracket, 79.5"	161527
	-72"	162502
6	Hopper Mounting Bracket	161515
8	Select Panel Plate	161512
9	Plastic Coin Box, CDC	815347*
10	W/A Port Brace	161541
11	Lock Cylinder Cover	161532
12	Coin Insert Assembly, Coke, Electronic, CDC, 79.5"	161930
	Coin Insert Assembly, Coke, Electronic, CDC, 72"	162920
13	Coin Hopper	815015
14	Coin Box Coin Chute W/A	231519

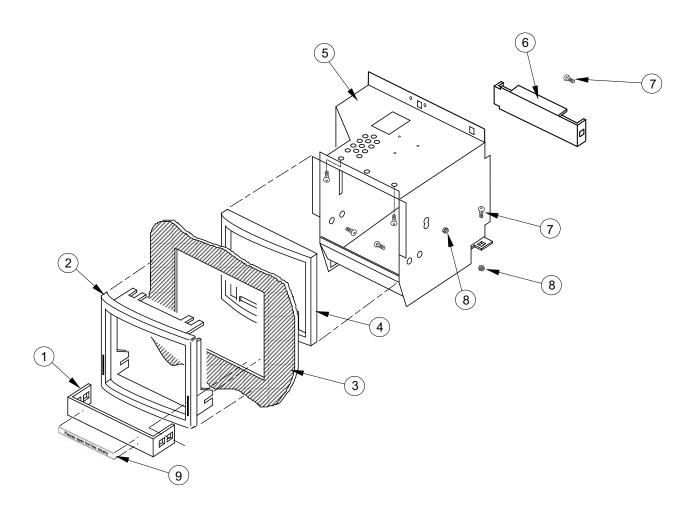
Item No.	Description	Part Number
15	Coin Box Housing, CDC	273503
16	Anti-Theft Plate, CDC	231504
17	Coin Cup, CDC (after 1349)	231505
	-prior to 1349	161505
18	Coin Return Lever Assembly	161593
19	3/64 Diameter Cable	911032
20	Cable Sleeve (at each end)	906015
21	Support Bracket/Coin Chute	161537
22	Changer Vault W/A	161523
23	Port W/A, CDC	231510
•	Changer Vault Door (not shown)	161534
•	Change Label, CDC (not shown)	931341
•	Label, Open Bottle Slow (not shown)	931355
•	Decal, Sec. Plate, CDC (not shown)	845467
•	Coin Deflector	161526
•	Grommet, Coin Return Cable	916002

^{*} Coin box w/a CC CDC 6 in. = part no. 161570

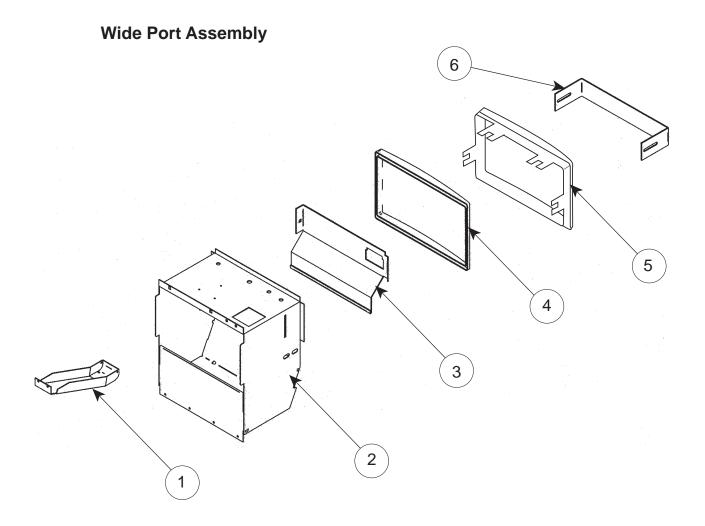
^{*} Coin box w/a GIII CDC 8 in. = 231550

^{*}Coin box w/a GIII Narrow = 010548

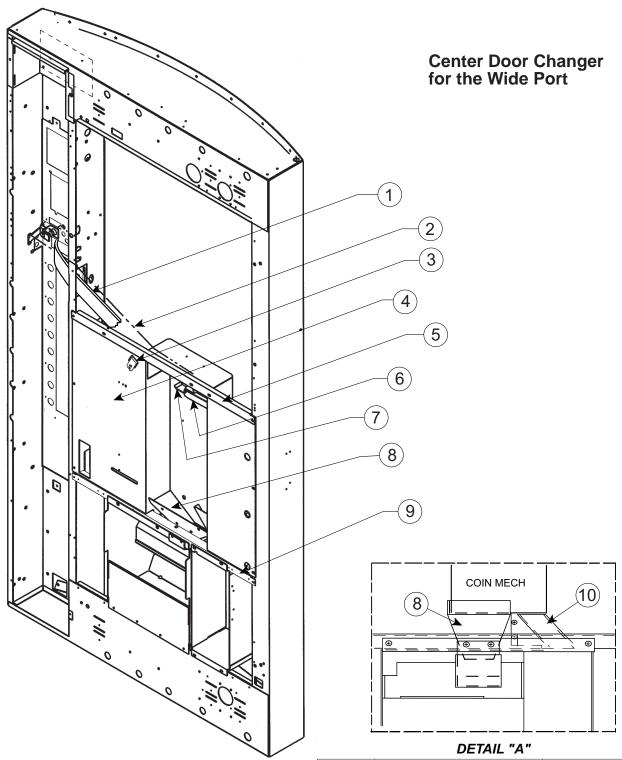
Narrow Port Assembly



Item No.	Description	Part Number	Qty.
1	Package Stop	010508	1
2	Port Trim	815019	1
3	Sign, 79.5" (Can Graphics)		1
	Sign, 72" (Can Graphics)		1
4	Port Spacer	815020	1
5	Port Body Assy., Welded	210510	1
	-Marketing	290540	1
6	Anti-theft Plate, Non CDC	210505	1
	-CDC	231523	
	-Marketing	290519	1
7	Bolt, 1/4-20 x 1/2"	901007	9
8	Nut, 1/4-20	905002	9
9	Label, Bottle, Door Port (Anti-Foaming)	931355	1



Item No.	Description	Part Number	Qty.
1	Coin Cup	231505	1
2	Port Body Assy., Welded	303540	1
	-Non CDC	305510	1
3	Anti-theft Plate, CDC	303503	1
	-Non CDC	305501	1
4	Port Spacer	815248	1
5	Port Trim	815249	1
6	Package Stop	273508	1

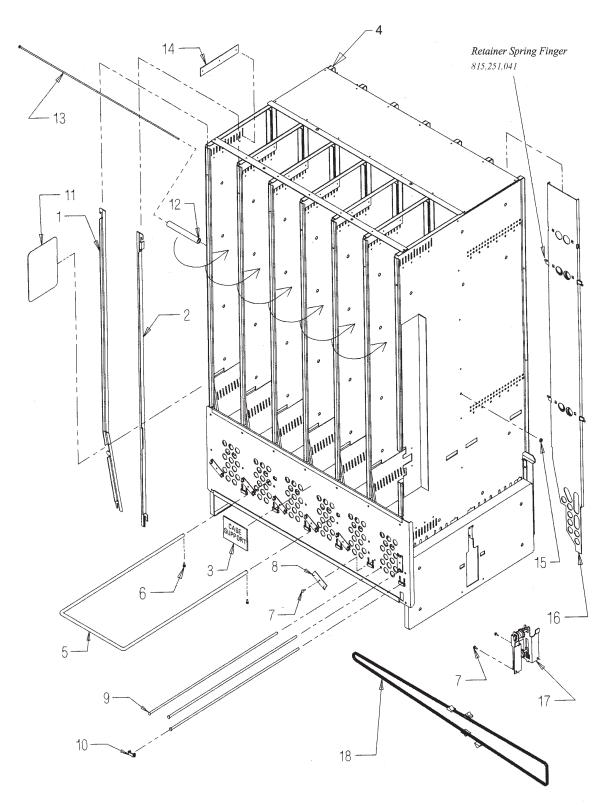


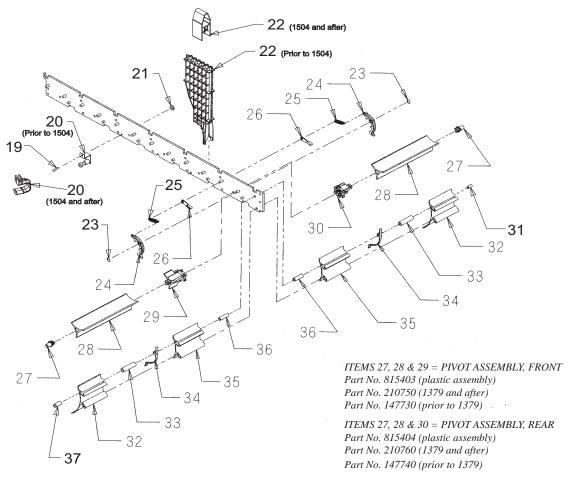
Item No.	Description	Part Number
1	Coin Chute Assy., CDC, 79.5"	161590
	-72"	162540
2	Cable	911032
3	Coin Chute Support, WP	303507
4	Changer Vault W/A	303506
5	Changer Vault Brace	161518

Item No.	Description	Part Number
6	Coin Return Hinge Bracket	290543
7	Coin Return Lever	161507
8	Coin Hopper, WP	303502
9	Port Brace	010515
10	Coin Box Chute, WP	303501
•	Coin Return Lever Assembly	161593

Vend Mechanism Assembly

Prior to 1504





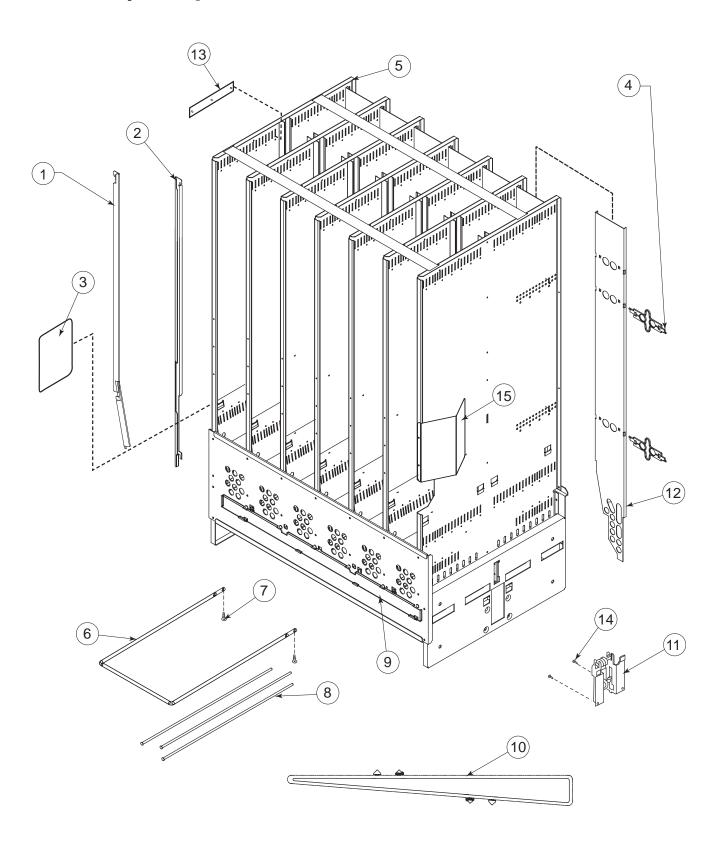
Item No.	Description	Part No.	Qty.
1	Retainer, Front, L, 79.5	210745	6
	- 72"	211712	6
2	Retainer, Front, R, 79.5"	210746	6
	-72"	211713	6
3	Decal, Case Support	931195	1
4	Vend Stack Assembly 79.5	210725	1
	-72	211711	1
5	Case Support	811026	1
6	Screw, Self-drilling*	902004	2
7	Screw, #8-32x3/8"	901011	11
8	Rod Retainer, Rotating	810046	7
9	Shaft, Pivot/Product Stop	803032	18
10	Rod Retainer, Sliding	915184	6
11	Sheet, Anti-friction	915197	24
12	Spacer, Column	915194	6
13	Bolt, Rack Retainer	811027	1
14	Rubber Strip	915199	7
15	Lock Nut, Retainer, #8-32	905004	1
16	Retainer Assy., Rear, 79.5"	210749	6
	- 72"	211714	6
17	Idler Bracket Assembly	210726	1
18	Chain/Actuator Assembly	210730	1
19	Screw, Stab., #6-32x1.5" (prior to 1504)	901023	2
	-**Screw 1.25" (1504 & after)	901041	2

*Clip, Hitch-pin (part no. 906,023) in units 1435 and after.	
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Item No.	Description	Part No.	Qty.
20	Stabilizer Assembly (prior to 1504)	210744	2
	-**Stabilizer (1504 & after)	915266	2
21	Lock Nut, Stabilizer, #6-32 (prior to 1504)	905006	2
	-**Nut (1504 & after)	905018	2
22	Insert, Divider (prior to 1504)	815242	12
	-**Insert, Divider (1504 & after	815252	12
23	E-ring, Release Lever	906013	12
24	Release Lever	915125	12
25	Spring, Release Lever	914008	12
26	Pawl, Anti-Rotation	915188	12
27	Bearing, Pivot	915206	12
28	Pivot	813010	12
29	Pivot End, Front	915207	6
30	Pivot End, Rear	915208	6
31	Spacer, Prod. Stop, .5"	915181	6
32	Product Stop, Long Adjustable	813016	12
33	Spacer, Prod. Stop, 1.85"	915250	12
34	Spring, Anti-tilt	915186	12
35	Product Stop, Short Adjustable	813006	12
36 37	Spacer, Prod. Stop, 1.25" Spacer, Front, 1"	915182 915264	12 12

^{**1504 &}amp; after (except 1504-0001-00130)

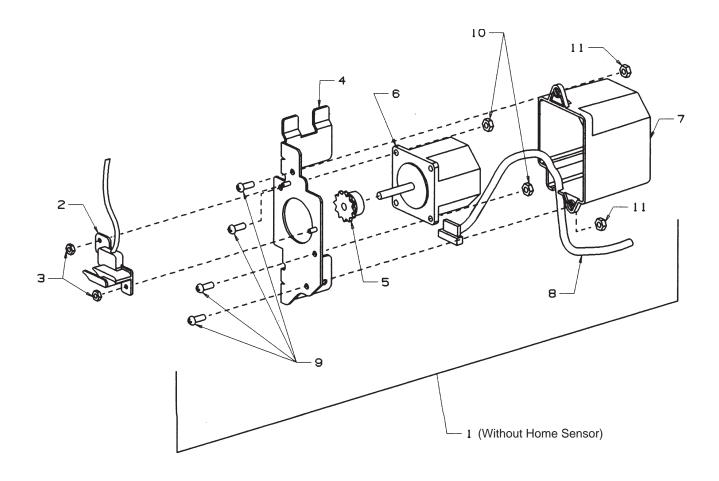
1504 and after: (except 1504-00001-00130)



1504 and after: (except 1504-00001-00130)

Item No.	Description	Part No.	Qty.
1	Retainer, Front, L, 79.5"	210745	6
	- 72"	211712	6
2	Retainer, Front, R, 79.5"	210746	6
	-72"	211713	6
3	Sheet, Anti-friction	915197	24
4	Retainer Spring Finger	815251	12
5	Vend Stack Assy, 79.5	210738	1
	-72	211711	1
	-72 Narrow	289710	1
6	Case Support	811026	1
7	Screw	902004	2
8	Shaft, Pivot/Product Stop	803032	18
9	Rod Retainer	281709	1
	-Narrow	283704	1
10	Chain/Actuator Assembly	210730	1
	-Narrow	283710	1
11	Idler Bracket Assembly	210757	1
12	Retainer Assy., Rear, 79.5"	210749	6
	- 72	211714	6
13	Rubber Strip	915199	7
14	Screw, #8-32x3/8"	901011	4
15	Stack Stiffener, Wide	281704	1
	-Narrow	283702	1

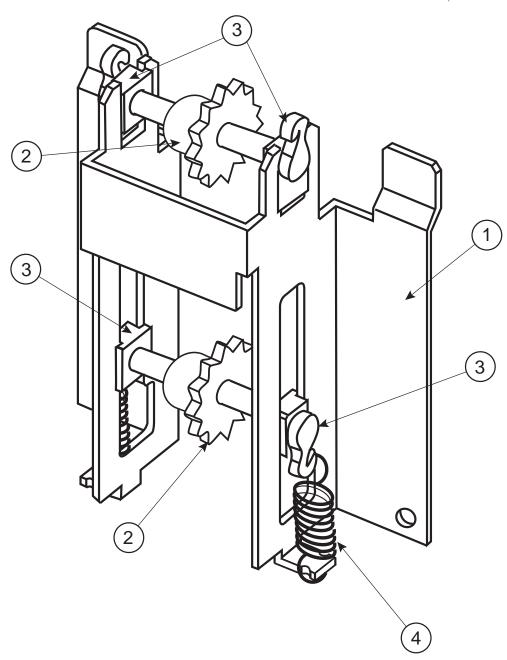
Vend Motor Assembly



Item No.	Description	Part Number	Qty.
4	Non-d Materia Annanda II.	040707	
1	Vend Motor Assembly	210727	1
2	Home Sensor Assembly	842052	1
3	Lock Nut, Home Sensor, #6-32	905006	2
4	Bracket, Motor		1
5	Sprocket	916034	1
6	Motor and Encoder		1
7	Cover, Motor		1
8	Harness, Motor/Encoder		1
9	Screw, Machine, #10-24x.50"		4
10	Nut, #10-24		2
11	Lock Nut, #10-24		2

Idler Bracket Assembly

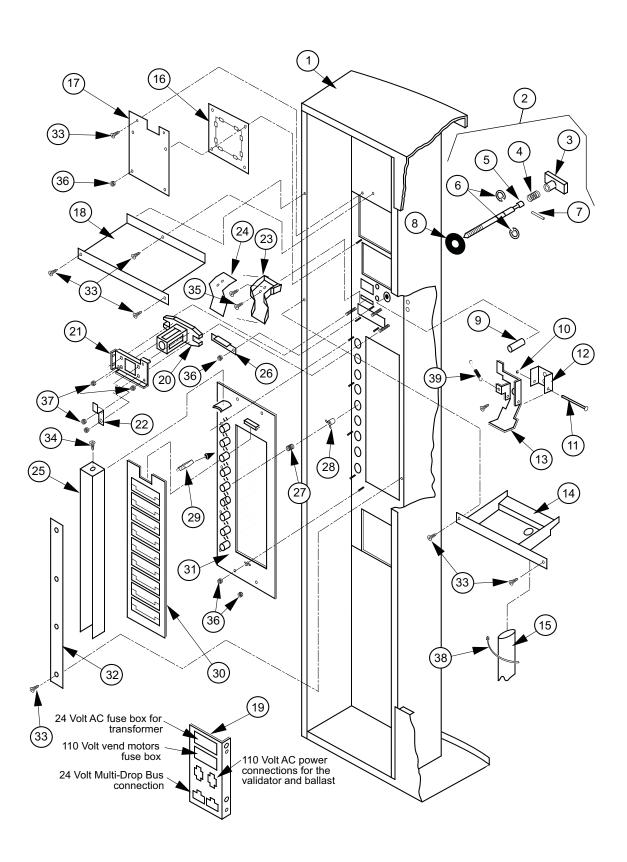
210726 (Before run 1504) *210757 (1504 and after)



*1504 and after (except 1504-00001-00130)

Item No.	Description	Part Number	Qty.
1	Bracket, Idler (before run 1504)	210703	1
	-*Bracket, Idler (1504 & after)	281713	1
2	Shaft/Sprocket, Idler Assy (Before run 1504	095770	2
	-*Shaft/Sprocket, Idler Assy (1504 & after)	281716	2
3	Bearing, Idler Shaft	915079	4
4	Spring, Idler	914021	2
	1 0		

Select Panel Assembly



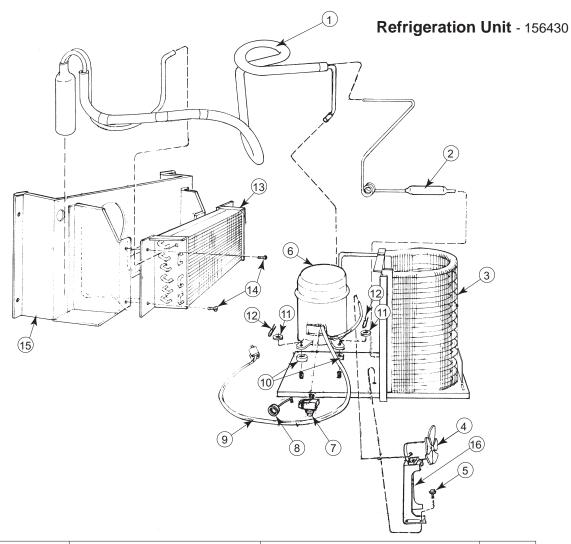
Select Panel Assembly

*1504 and after

(except 1504-00001-00130)

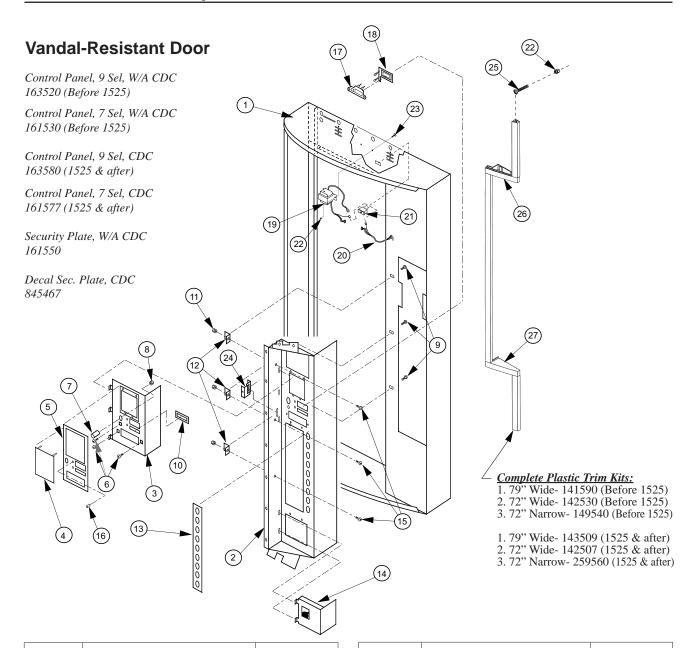
Item No.	Description	Part Number
1	Welded Assy., 79"	307510
	- 72"	308510
	- 79" Narrow	306510
	- 72" Gas Island	309510
2	Flush Mount Pop-Out	812176
	T-Handle Assy.	
	(Items 3, 4, 5, 6, 7 & 20)	
	-*T-Handle Assy.	812289
	-*T-Handle Assy, Stainless	812291
3	T-Handle Body	n/a
4	T-Handle Spring, 1.75"	914048
5	T-Handle Stud	803006
6	Retaining Ring	912157
7	Pin/T Handle Stud	n/a
8	T-Stud Sealer Washer	915258
9	Button, Coin Return Lever	803031
10	Retaining Ring, 5-32"	906005
11	Roller Pin - Door Lifter	811002
12	Hinge - Coin Return Lever	141506
13	Coin Return Lever	141504
14	Catch Basin Bill Validator Assy	095590
15	Catch Basin Drain Tube	925038
16	POS Decal	931439
17	W/A POS Plate, metal	231579
18	Security Shelf	141512
19	Fuse Bracket I.E.C.	141522
20	T-Handle Housing	812190
21	T-Handle Brace	141513
22	Lever Stop	141514
23	Coin Chute	815001
24	Coin Chute Cover	815002
25	Splash Guard - Coke	815169
26	Coin Ramp	141508
27	Spring-Select Button	914004
28	Select Button - Coke	815165
29	Switch, Miniature	835001
30	Carrier Strip Assy.	815167

Item No.	Description	Part Number
31	Button Panel	815168
	-Gas Island	285507
32	Retaining Strap	141507
	- Gas Island	285504
33	Sems Screw, #8-32x3/8"	901011
34	Screw, Self-drilling #8x1/2" w/ 1/2" Washer	902001
35	Sew Screw #6-32x3/8"	901004
36	Nuts, Keps #8-32	905001
37	Nuts, Keps 1/4-20	905002
38	Wire Tie, Large (4")	916007
39	Sold Out Spring	914003
•	Bottom Coin Chute Assy Non CDC (Landscape)	010594
•	Coin return:	
	-Bushing (Coin return)	803030
	-Hex Jam Nut (Coin return)	905019
	-9/16 Internal Tooth Washer (Coin return)	904013
•	PC Board Housing	095530
•	Splash Guard	815169
•	Hole-Block Lock Cover	141509
T8, 3 Bul		
•	Lamp Panel, WV	303522
•	Lamp Panel, NV	305507
Ballast A	ssemblies	
•	Ballast Assy, 72" CDC	232520
	-72" & 79" Non CDC	010950
	-79" CDC	231560
	-79" T8 3 Bulb, Wide	303531
	-72" T8 3 Bulb, Wide	304531
	-72" T8 3 Bulb, 79", Narrow	305531
	-79" T8 3 Bulb, CCR	291593
	-72" T8 3 Bulb, CCR	292593
	3,	



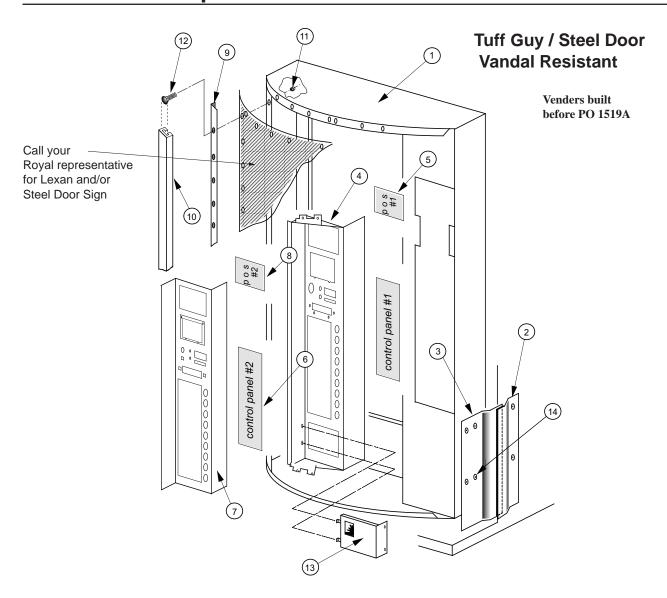
Item No.	Description	Part Number	Qty.
1	Heat Exchange	See Note#1	1
2	Dryer	824005	1
3	Condenser	820007	1
4	Condenser Motor	839010	1
	(Blade Only)	(810014)	
5	Screw, #8-32x1/2	901006 ´	2
6	Capstart Compressor,	819028	1
	1/3+ Tecumseh, R134a		
7	Relay, old style (6 prongs)	836065	1
	Relay, new style (4 prongs)	836130	1
8	Overload, 1/3+ Tecumseh	822010	1
9	Compressor Lead	See note #1	
10	Grommets, Compressor	916015	4
11	Grommet Plug	815017	4
12	Clip, Compressor	914002	4
13	Evaporator Coil	820002	1
14	Screw. #8x1/2	902004	4
15	Fan Shroud Assy.	210088	1
16	Condenser Fan Motor Bracket	810006	1
•	Evaporator Cover	210007	1
•	U-Clips	906007	1

Note #1: This part is not available individually. It must be ordered as an assembly.



Item No.	Description	Part Number
1	Door w/a Coke 79" Wide	307510
	- 72" Wide	308510
2	Control Panel, 9 Select, Non CDC (Before 1525)	143510
	- 7 Select, Narrow (Before 1525) Non CDC	141530
	- 9 Select (after 1525) non CDC	143507
	- 7 Select, Narrow (after 1525) Non CDC	141577
	- Gas Island (Before 1525)	285520
	- Gas Island (After 1525)	285530
3	Security Plate W/A, non CDC	141550
4	Validator Cover, Coke	011518
5	Security Plate Decal	845396
6	T-bolt, 1/4-20x1" LG	901037
7	Button, Coin Return Lever	803031
	-Coin Return Bushing	803030
8	Hex Jam Nut 9/16-18 UNF2A	905019
9	Sems Screw, #8-32x3/8" LG	901011

Item No.	Description	Part Number
10	Coin Plate, Coke	141516
11	Keps Nut, 1/4-20	905002
12	Hold-Down Angle	123505
13	Decal Select Button	845383
14	Coin Cup Mounting Plate W/A	123550
15	Carriage Bolt, 1/4-20x1/2" LG	901007
16-18	LED Assembly	010593
19	Transformer	842147
20	Harness to Board, 24-volt	842146
21	Fuse Box Assy.	012165
22	Keps Nut #8-32	905001
23	T-Screw, #8-32x3/4"	901001
24	Lock Cover Hole Block	141509
25	T-Screw	901001
26	Coke Trim Filler, Top	815311
27	Coke Trim Filler, Bottom	815312
•	Black Christmas Tree	916009

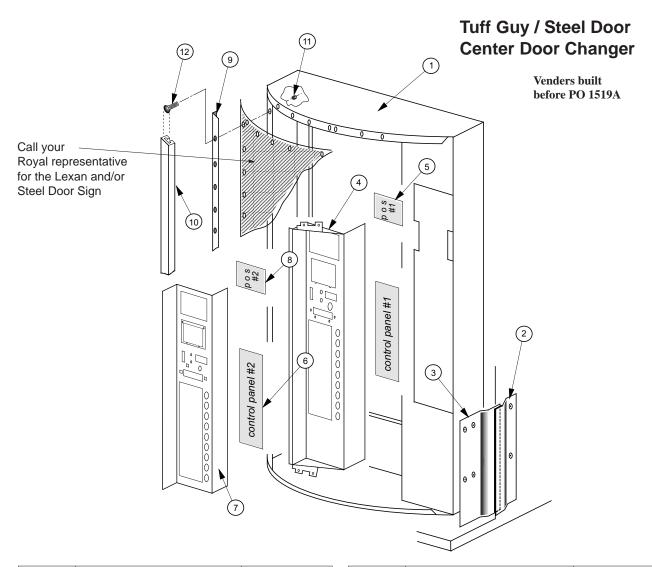


Item No.	Description	Part Number
1	Door Weld Assy., 79"	307510
	-72"	308510
2	Vandal Panel Cover, 79.5"	171101
	-72"	172001
3	*Right Vandal Panel, 79"	010519
	*- 72"	011501
4	Bolt On Control Panel, 9 Sel.	143510
	- 7 Sel.	141530
5	P.O.S. Window	815007
6	Lexan Panel - flavor card	171522
7	Front Security Plate, 9 Sel.	183510
	Front Security Plate, 7 Sel.	181510
8	P.O.S. Lexan Cover	171523
9	Metal Bolt On Trim:	
	Top and Bottom/All Wide	171502
	Left, 79.5"	171507
	Top and Bottom Right, 79.5"	171505
	Top and Bottom/Enclosure, 79.5"	171512

Item No.	Description	Part Number
10	Plastic Trim:	
	Top and Bottom/All Wide	171518
	Top Right, 79.5"	171516
	Top and Bottom/Enclosure,	171519
	79.5"	
	Bottom Right, 79.5"	171517
	Left Trim, 79.5"	171514
11	1/4-20 Kep Nut	905002
	(Attaches to Item 12)	
12	1/2-20X 1" T-Bolt	901037
13	Coin Cup W/A	123550
14	Carriage Bolt	901045

NOTES:

- 1. For other trim and door sizes, contact your local Royal Vendors' representative.
- 2. *Specify Color

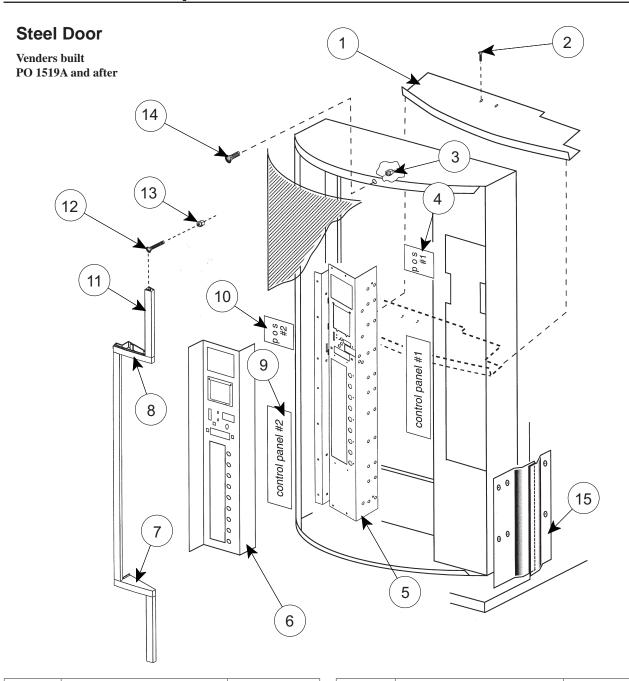


Item No.	Description	Part Number
1	Door Weld Assy., CDC, 72"	304510
	Door Weld Assy., CDC, 79"	303520
2	Vandal Panel Cover, 79.5"	171101
	Vandal Panel Cover, 72"	172001
3	*Right Vandal Panel, 79"	010519
	*Right Vandal Panel, 72"	011501
4	Bolt On Control Panel,	163580
	9 Sel., CDC	
	Bolt On Control Panel,	161530
	7 Sel., CDC	
5	P.O.S. Window	815007
6	Lexan Panel	171522
7	Front Security Plate, 9 Sel.	173510
	Front Security Plate, 7 Sel.	171510
8	P.O.S. Lexan Cover	171523

Item No.	Description	Part Number
9	Metal Bolt On Trim:	
	Top and Bottom/All Wide	171502
	Left, 79.5"	171507
	Top and Bottom Right, 79.5"	171505
	Top and Bottom/Enclosure, 79.5"	171512
10	Right Trim, 79.5" Plastic Trim:	171506
	Top and Bottom/All Wide	171513
	Top Right, 79.5"	171516
	Top and Bottom/Enclosure, 79.5"	171512
	Bottom Right, 79.5"	171517
	Left Trim, 79.5"	171514
11	1/4-20 Kep Nut	905002
	(Attaches to Item 12)	
12	1/4-20 x 1" T-Bolt	901037

NOTES: 1. For other trim and door sizes, contact your local Royal Vendors representative.

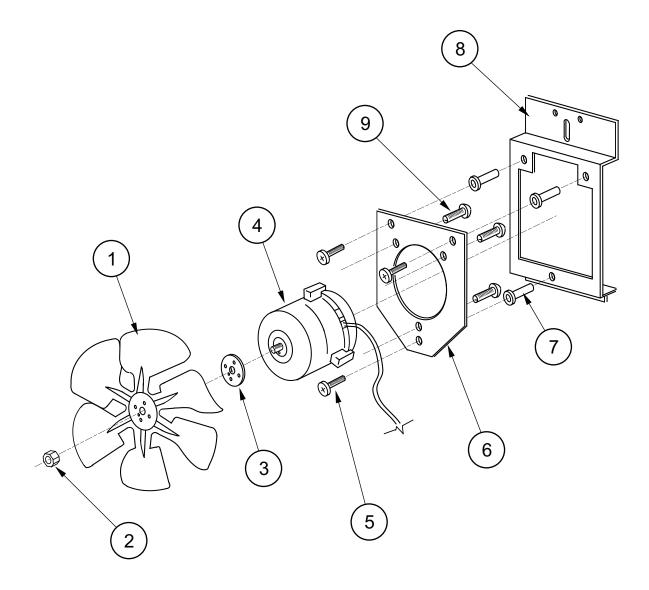
2. *Specify Color



Item No.	Description	Part Number
1	Sign Support	171536
2	#8-32 Screw (2)	901011
3	1/4 Keps Nut	905002
4	P.O.S. Window	815007
5	Control Panel, 9 select CDC	163580
	-Non CDC	143507
6	Front Security Plate, 9 Sel.	183510
	-7 Select	181510
7	CokeTrim Filler, Bottom	815312
8	Coke Trim Filler, Top	815311
9	Lexan Panel - Flavor Card	171522
10	P.O.S. Lexan Cover	171523

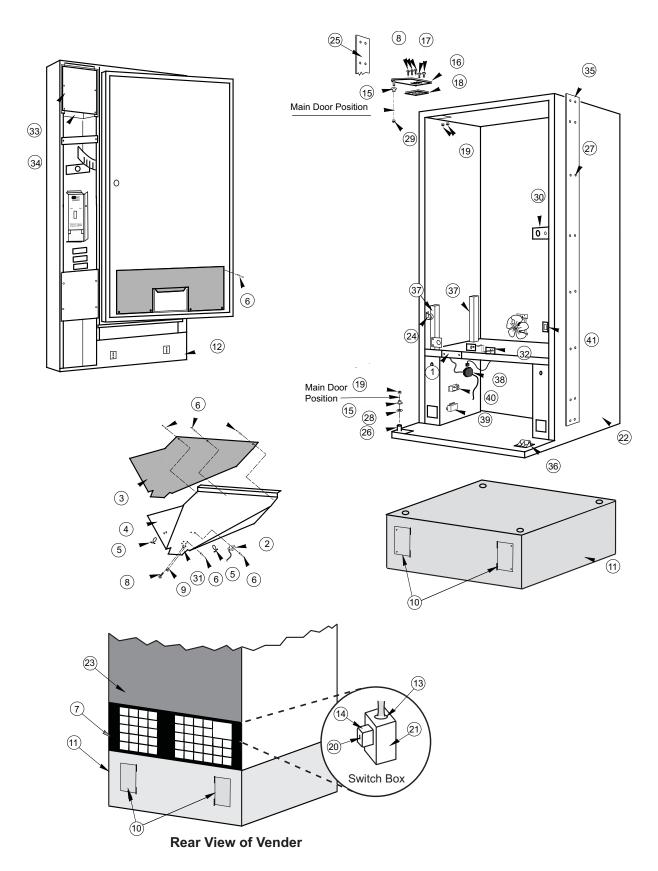
Item No.	Description	Part Number
11	Trim Kit Assembly 79"	143509
	-72"	142507
	-72" Narrow	259560
12	T-Screw	901001
13	Keps Nut	905001
14	Carriage Bolt (3 Req.)	901056
15	Vandal Panel Cover, 79"	171101
	-72"	172001

Evaporator Fan Motor Assembly



Item No.	Description	Part Number	Qty.
4	Fan Blade	810045	1
	Fan Blade		
2	Nut, 1/4-20	905002	1
3	Silencer	939037	1
4	Motor, 35W/115V	839028	1
5	Machine Screw #8-32x1/2"	901038	3
6	Fan Plate	010058	1
7	Well Nut, #8-32	905026	3
8	Fan Mounting Bracket	231005	1
9	Sems Screw #8-32x3/8"	901011	3
1-9	Evap. Fan Motor Assembly	210400	1
	-EconoCool	231060	1

Miscellaneous Assemblies, Gas Island

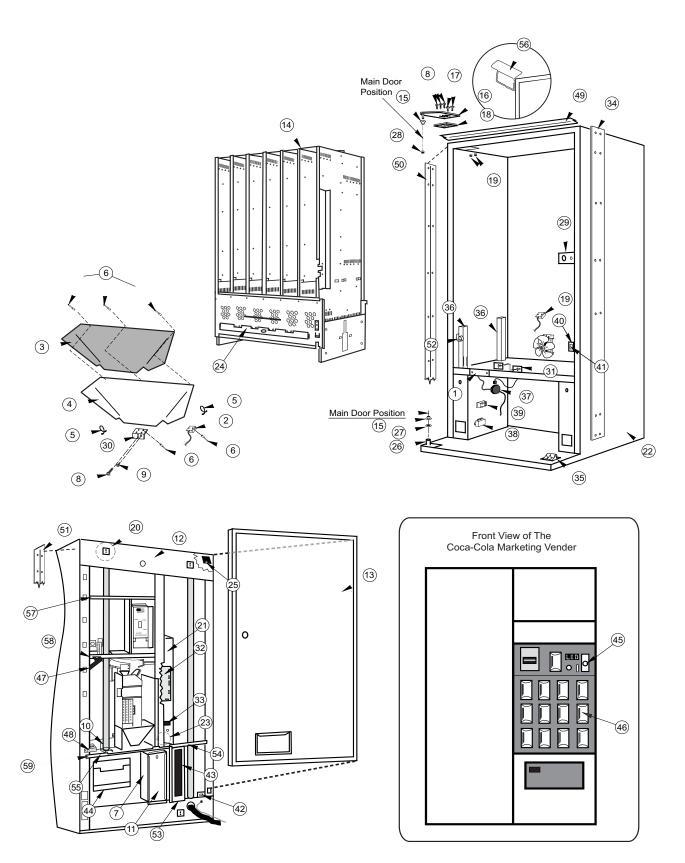


Miscellaneous Assemblies, Gas Island

Item No.	Description	Part Number
1	Wiring Cover Plate	010002
2	Delivery Chute Sensor	836004
3	Delivery Chute Liner	815261
4	Delivery Chute	210002
5	Tension Clips	916059
6	Rivets 1/8"	908004
7	Cabinet Back Screen, Gas Island	285009
8	Bolts 1/4-20x1"	901003
9	Screw #8-18x1/2"	902004
10	Access Door, Gas Island	285001
11	Stand W/A, 16" Gas Island	285010
12	Door Assembly 72", Gas Island	285550
13	Cable Clamp, Gas Island	842200
14	Toggle Switch Cover, Gas Island	842199
15	Nyliner	916012
16	Top Hinge, Left	810002
17	Carriage Bolt	901008
18	Top Hinge Spacer	010016
19	Keps Nut 1/4-20	905002
20	Toggle Switch, Gas Island	835016
21	Handy Switch Box, Gas Island	842198
22	Cabinet Assembly	285050

Item No.	Description	Part Number
23	Back Decal, Gas Island	848081
24	Cable Clamp	916004
25	Left Vandel Panel	142001
26	Main Door Bottom Hinge	010040
27	Pop Rivot	908003
28	Flat Washer	904002
29	Keps Nut 3/8-16	905007
30	Latch Strike Assembly	010030
31	Bracket, Chute Locator	141014
32	Can Chute Tie Bracket	010017
33	P.C. Board Cover Assembly	815260
34	P.C. Board Housing	095530
35	Right Cabinet Vandal Panel 72"	011002
36	Door Roller Kit	141180
37	Rack Support	281001
38	Main Wiring Harness, Gas Island	842207
39	EMI Filter	842061
40	Relay	836065
41	Door Switch Bracket	010045
•	Key Pad Cover Plate, Gas Island	285503
•	Wiring Diagram, Gas Island	931359

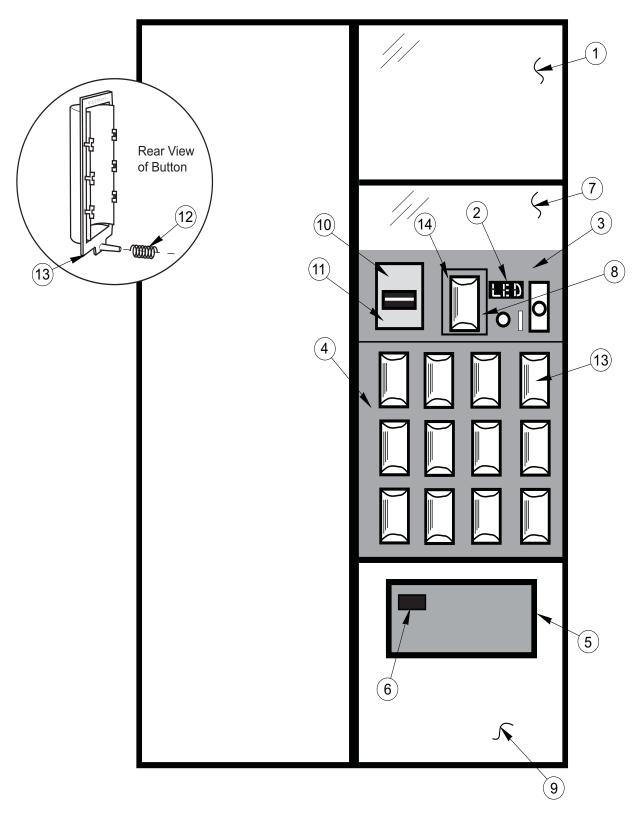
Coca Cola Marketing Vender (Miscellaneous Assemblies)



Coca Cola Marketing Vender (Miscellaneous Assemblies)

ITEM NO.	DESCRIPTION	PART NO.	ITEM NO.	DESCRIPTION	PART NO.
1	Wiring Plate Cover	010002	39	Relay, 4-prong	836130
2	Delivery Chute Sensor			- 6-prong (old style)	
3	Delivery Chute Liner, Wide Mktg.		40	Door Switch Bracket	
4	Delivery Chute, Wide Marketing.		41	Door Switch, 1520 and before	
5	Tension Clips		42	Door Switch, 1521 and after*	
6	Rivets 1/8"		43	Ballast Assembly, Marketing 72"	
7	Coin Box Housing, Marketing		""	- 79"	
8	Bolts 1/4-20x1"			- T8, 3 Lamp, 72"	
9	Screw #8-18x1/2"			- T8, 3 Lamp, 79"	
10	Lamp Bracket (bottom), Marketing		44	Port W/A, Marketing	
11	Coin Box			Anti-Theft Plate, Marketing	
12	Door Assembly,	013347	45	T-Handle Assembly, Marketing	
12	Wide Marketing 72", bottle	291550	"	- 1504 & after	
	- Wide Marketing 72", can			T-Handle Housing, Marketing	
	- Wide Marketing 79", bottle		46	Select Button, Marketing	
	- Wide Marketing 79", can		47	Water Diverter, Marketing	
13	Inner Door Assembly,	200001	48	Burst Open Latch Strike Assy., M	
.0	Wide Marketing 72"	291605	49	Rain Guard, Wide Marketing	
	- Wide Marketing 79"		50	Left Vandal Panel 79", Marketing.	
	- Narrow Marketing		**	- 72", Marketing	
14	Vend Rack Assembly, Wide 72"			- 79", UHR	
	- Wide 79"			- 72", UHR	
	- Narrow	289710	51	Right Vandal Panel 79", Marketing	
15	Nyliner			- 72", Marketing	
16	Top Hinge, Left, Marketing		52	Cable Clamp	916004
17	Carriage Bolt		53	Ballast Panel, Marketing	290531
18	Top Hinge Spacer	010016	54	Ballast Panel Brace, Marketing	290532
19	Temperature Sensor, Marketing	822041		- Narrow	292505
20	Lamp Bracket (Top) Marketing	290533	55	Port Brace, Marketing	290521
21	Control Board Mounting Panel	290523	56	Universal Hinge, Red	
22	Cabinet Assembly,		57	Top Bulkhead	
	Wide Marketing 72"		58	Control Panel Brace	
	- Wide Marketing 79"		59	Bottom Bulkhead	
23	Transformer Assembly		•	Ballast Panel Assy., Marketing	
24	Rod Retainer, Wide		·	Top Lampholder, H.O	
	- Narrow		•	Bottom Lampholder, H.O	
25	Water Diverter (Top Hinge), Mktg		•	Ballast Box	
26	Main Door Bottom Hinge, Mktg		•	Lamp Panel, WV	
27	Flat Washer		•	Lamp Panel, NW	292517
28	Keps Nut 3/8-16		* 5	70" Maylotina Vandona which atout [00 4500 and
29	Latch Strike Assembly			⁷ 2" Marketing Venders, which start F	O 1528 and
30	Bracket, Chute Locator		after.		
31	Can Chute Tie Bracket Control Board				
32 33	Fuse Box Assy				
34	•				
34	Right Cabinet Vandal Panel 72"				
35	Door Roller Kit				
36	Rack Support				
37	Main Wiring Harness,	201001			
0.	- inside cabinet, 200714 and afte	r 842596			
	- to wall outlet, 200714 and after.				
	- Entire harness, 200713 and before				
38	EMI Filter				
			l		

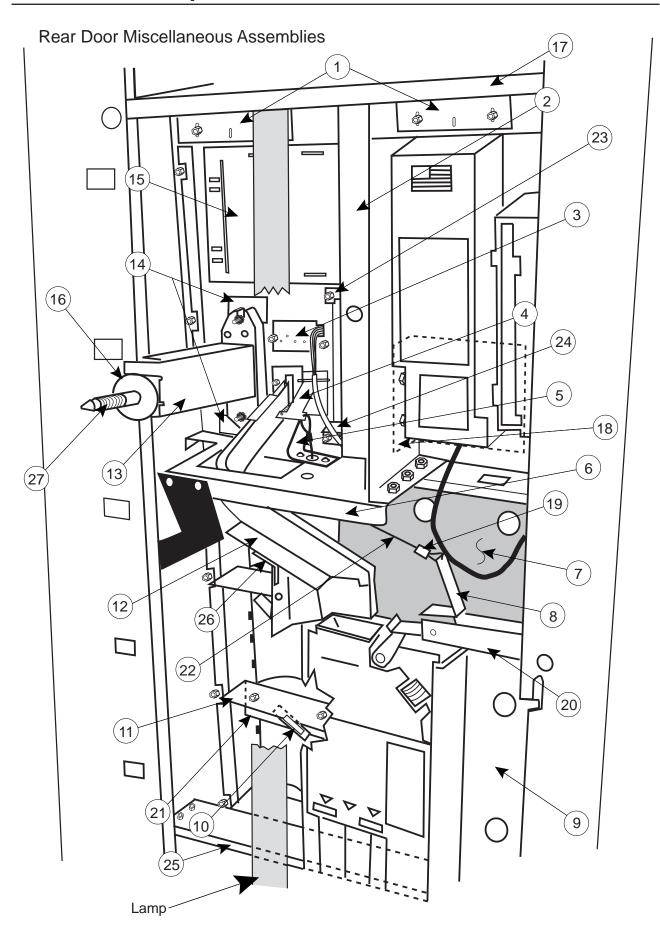
Coca-Cola Marketing Vender



Coca-Cola Marketing Vender

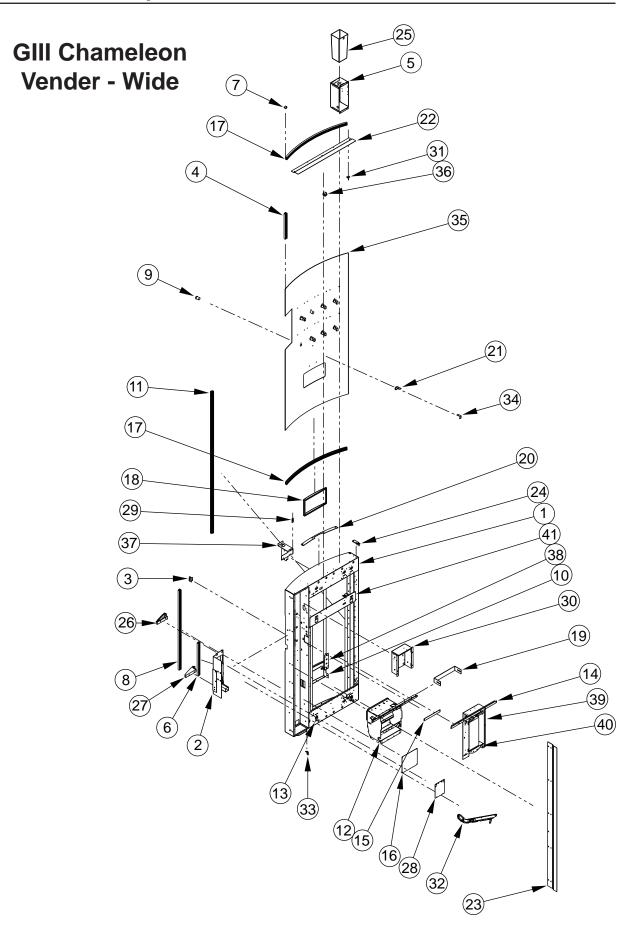
Item No.	Description	Part No.
1	Ad Panel, Lexan only, 79", Marketing, 200307 & after	849166
	-79", Prior to 200307	848575
	-All 72" Marketing	
	Ad panel card (behind Lexan), Can	
	-Can / Bottle	
	-Bottle	
	-Prior to 200307	
2	L.E.D. Assembly	
3	Control Panel Assy, Marketing, 200307 & after	
	-Prior to 200307	
	-Control Panel W/A	
4	Button Panel Assy. with Harness, Marketing, Wide	
	-Marketing, Narrow	
5	Port Trim, Marketing	
6	Coin Cup, Marketing	
7	Lexan POS Window, Marketing	
	POS Window Card "Thirsty"	
8	Feature Button Bracket, Marketing	
9	Port Panel Sign, Marketing, 200307 & after	
	-Prior to 200307	
10	Validator Mounting Plate Assy	
11	Validator Decal, Marketing, 200307 & after	
	-Prior to 200307	
12	Spring	
13	Select Button	
14	Validator Filler Label	
•	Feature Button Bracket Decal	
•	Control Panel Decal, Marketing, 200307 & after, USA	
	-Canada	
	-Prior to 200307	
•	Control Panel Decal, Marketing, 200307 & after, with lock cover holes	
	-Prior to 200307	
•	Black Christmas Tree	
•	Red Christmas Tree	
•	Red Carriage Bolt	
•	Red Pop Rivet	
•	Validator Cover with Studs, Red	
•	Validator Filler with Gasket	291084

^{* -} Please specify color at time of order.



Coca Cola Marketing Vender (Rear Door Miscellaneous Assemblies)

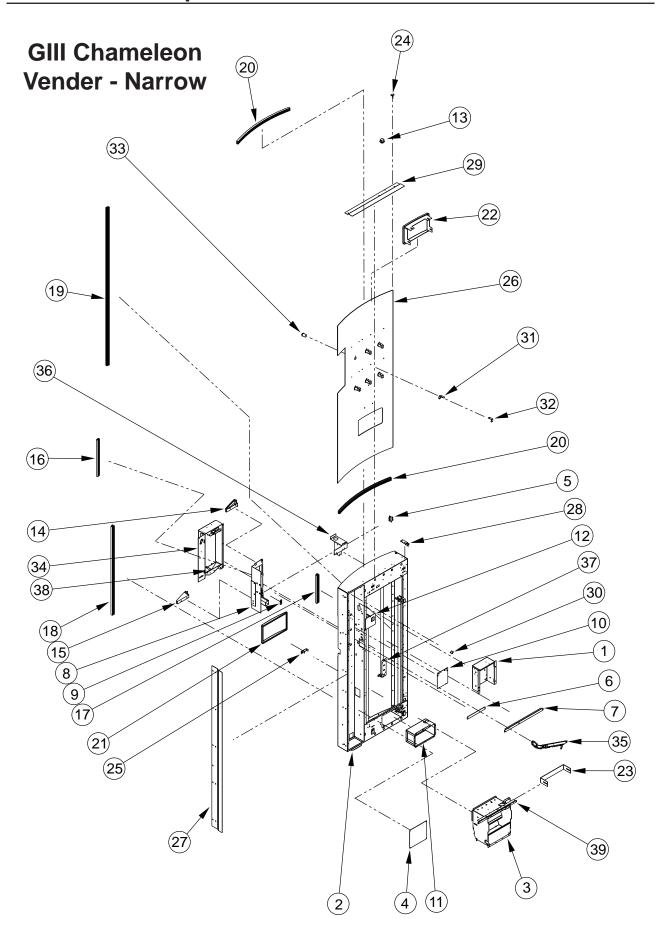
Item No.	Description	Part No.
1	Control Panel Strap, Marketing	290582
2	Validator Divider, Marketing	
3	LED Assy, Marketing	291525
4	Coin Return Lever Assy, Marketing	291529
5	Lever Stop, Marketing	290544
6	Control Panel Brace, Marketing	
7	Changer Shield, Marketing	290525
8	Coin Return Lever, Marketing	
9	Changer Door Assy, Marketing	290562
10	Select Switch	
11	Switch Carrier Strip, Marketing	815273
12	Coin Chute Assy, Marketing	290564
13	T-Handle Brace, Marketing	
14	Hole Block Cover, Marketing	
15	POS Window Plate, Marketing	290535
16	T-Stud Sealer Washer	915258
17	Bulkhead, Top	
18	Validator Support	291543
19	Cable Sleeve	906015
20	Coin Return Hinge Bracket	
21	Button Channel, Marketing	
22	Cable	
23	Feature Button Bracket	290512
24	Feature Button Plate	290538
25	Bulkhead, Bottom	290514
26	Coin Chute Support	
27	T-Bolt	
•	Validator Guard, Marketing	
•	Painted Hole Block Cover	
•	LED Shroud, Marketing	
•	Select Button Spring, Marketing	



GIII Chameleon Vender - Wide

Item Number	Description Page 1	art Number	Quantity	
1	Door W/A, 72" Chameleon35	58510	1	
	- 79" Wide Chameleon		1	
2	Control Panel Assembly, Chameleon		1	
3	Lock Cover Hole Block		1	
4	Sign Trim Right Top, 72" Chameleon		1	
·	- 79"		1	
5	Coin Box Housing CDC		1	
6	Sign Trim Center, 72" / 79" Chameleon			
7	End Cap, Angled Trim81			
8	Sign Trim Bottom Right, 72" Chameleon	58503		
O	- 79" Chameleon		1	
9	Select Button, Chameleon		8	
10	Port Trim Wide		0	
11	Sign Trim Left, 72"		1	
11			1	
10	- 79"		1	
12	Port Body Assembly WP CDC		1	
13	Lamp Bracket		4	
14	Changer Vault Bracket CDC16		1	
15	Panel Strap		1	
16	Select Panel Plate CDC16		1	
17	Sign Trim Top / Bottom, Wide Vender14		2	
18	Port Spacer Wide8		1	
19	Can Stop Wide Port27		1	
20	Sign Brace Chameleon81		1	
21	Switch Retainer Front Chameleon35	57511	8	
22	Rain Guard, Wide01	10518	1	
23	Vandal Panel Right, 72"01	11501	1	
	- 79"0 ²	10519	1	
24	Top Inner Door Hinge W/A01	10520	1	
25	Coin Box87	15347	1	
26	Trim Filler Cap, Top8	15311	1	
27	Trim Filler Cap, Bottom81		1	
28	POS Plate W/A	31579	1	
29	Coin Plate14		1	
30	PC Board Housing W/A09		1	
31	End Cap, Flat Trim8		1	
32	Coin Chute Assembly CDC, 72"		1	
-	- 79"		1	
33	Coin Chute Bracket CDC		1	
34	Switch Retainer Rear Chameleon		8	
35	Sign			
36	Lampholder, Top82		3	
50	- Bottom84		3	
37	Lamp Bracket, Top		1	
38	Lamp Bracket, Bottom			
39	Changer Vault Chameleon			
			1	
40	Coin Hopper			
41	Lamp Panel, Wide Vender		10	
•	Nylon Push Rivet		16	
•	Coin Return Lever Assembly		1	
•	Tie Rod8	11001	1	

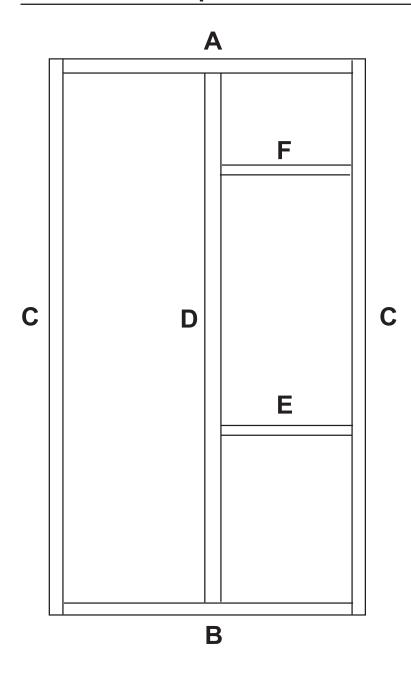
Note: Please call Royal Vendors' Service Parts Department for all sign part numbers.



GIII Chameleon Vender - Narrow

Item Number	Description	Part Number	Quantity	
1	PC Board Housing W/A	095530	1	
2	Door W/A, 72" Narrow Chameleon		1	
3	Port Body Assembly WP CDC		1	
4	Select Panel Plate		1	
5	Lock Cover Hole Block		1	
6	Panel Strap		1	
7	Bracket Changer Vault NV		1	
8	Control Panel Assembly, Chameleon	357540	1	
9	Coin Plate		1	
10	POS Plate W/A	231579	1	
11	Coin Box Housing W/A, Narrow Vender	325520	1	
12	Lamp Bracket Mounting Plate, Narrow Vender		1	
13	Lampholder, Top		3	
	- Bottom		3	
14	Trim Filler Cap, Top		1	
15	Trim Filler Cap, Bottom		1	
16	Sign Trim Center, 72" / 79" Chameleon		1	
17	Sign Trim Right Top, 72" Chameleon		1	
18	Sign Trim Bottom Right, 72" Chameleon		1	
19	Sign Trim Left, 72"		1	
20	Sign Trim Top / Bottom, Narrow Vender		2	
21	Port Spacer Wide		1	
22	Port Trim Wide		1 1	
23	Can Stop Wide Port		1	
24	End Cap, Flat Trim		1	
25	Coin Box Housing Shroud, Narrow Vender		1	
26	Sign		'	
27	Vandal Panel Right, 72"		1	
28	Top Inner Door Hinge W/A		1	
29	Rain Guard, Narrow		1	
30	End Cap, Angled Trim		1	
31	Switch Retainer Front Chameleon		6	
32	Switch Retainer Rear Chameleon		6	
33	Select Button, Chameleon		6	
34	Changer Vault Chameleon		1	
35	Coin Chute Assembly CDC, 72"			
36	Lamp Bracket, Top		1	
36 37				
37 38			1	
39	Coin Hopper 303502 1 Port Brace 258506 1			
39	Nylon Push Rivet			
•	'		1 1 1	
•	Coin Return Lever Assembly	291529	'	

Note: Please call Royal Vendors' Service Parts Department for all sign part numbers.



Black Marketing "Clip-On" Trim

(200307 & after)

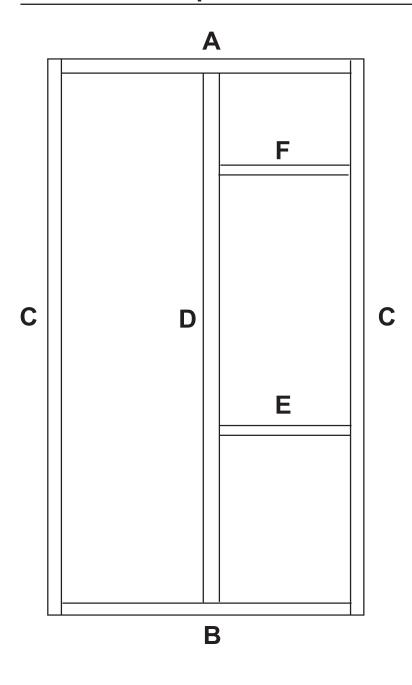
79"	Wide	Marl	keting,	Clip	On	(Kit#	338501)	
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Item	Part Number	Length (inches)
A	339539	34.25
В	339538	34.25
C	338502	76.94
D	338503	74.00
E	339541	15.50
F	339545	15.50

A	339539	34.25
В	339538	34.25
C	339536	69.38
D	339537	74.00
E	339541	15.50
F	339545	15.50

72" Narrow Marketing Clip On (Kit # 341503) Item Part Number Length (inches)

Item	Part Number	Length (inches
A	341505	28.18
В	341504	28.18
C	339536	69.38
D	339537	66.44
E	339541	15.50
F	339545	15.50



Red Marketing "Clip-On" Trim

(1522XX to 200306)

79" Wide Marketing, Clip On (Kit # 294501)

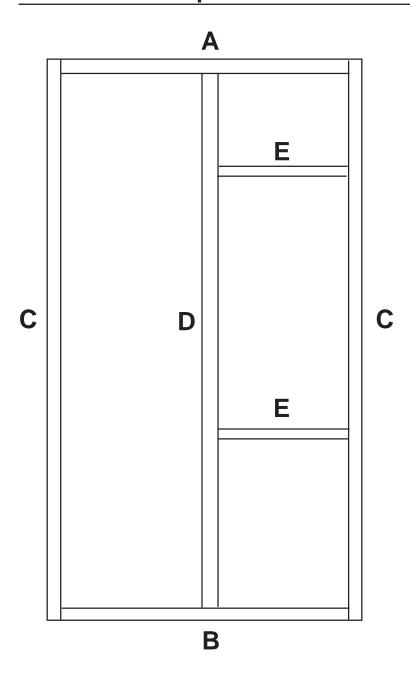
Item	Part Number	Length (inches)
A	291539	33.73
В	291538	33.73
C	292513	76.44
D	292514	73.53
E	291541	14.92
F	291545	14.92

72" Wide Marketing, Clip On (Kit # 291535)

A	291539	33.73
В	291538	33.73
C	291536	68.88
D	291537	65.97
E	291541	14.92
F	291545	14.92

72" Narrow Marketing Clip On (Kit # 293503)

Item	Part Number	Length (inches)
A	292516	27.66
В	292515	27.66
C	291536	68.88
D	291537	65.97
E	291541	14.92
F	291545	14.92



Marketing Trim

(prior to run 1522)

79" Wide Marketing (Kit # 290586)

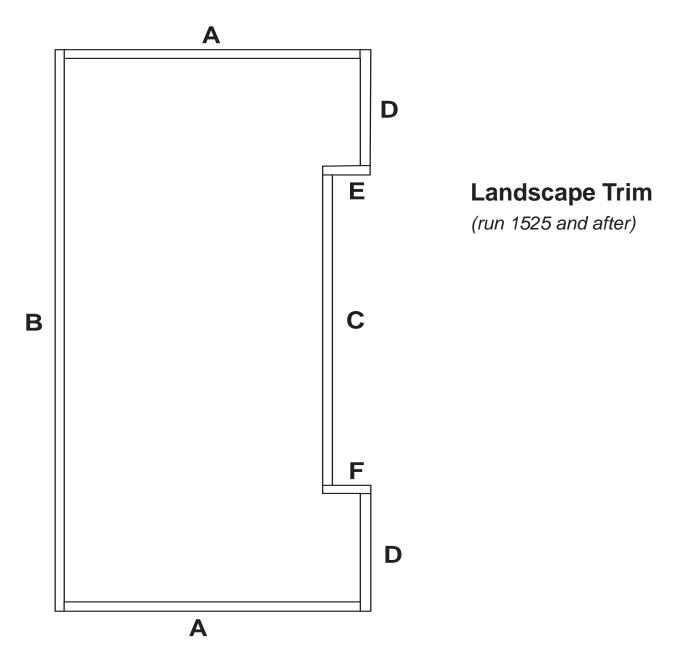
Item	Part Number	Length (inches)
A	290587	33.64
В	290588	33.64
C	290589	76.64
D	290596	73.72
E	290597	14.94

12"	Narrow	Mark	eting	(Kit#	29330.	2)
_			_	_	_	

Item	Part Number	Length (inches)
A	292508	27.57
В	292509	27.57
C	291508	69.08
D	291509	66.16
E	290597	14.94

72" Wide Marketing (Kit # 291507) A 290587 33.64 B 290588 33.64

B 290588 33.64 C 291508 69.08 D 291509 69.08 E 290597 14.94

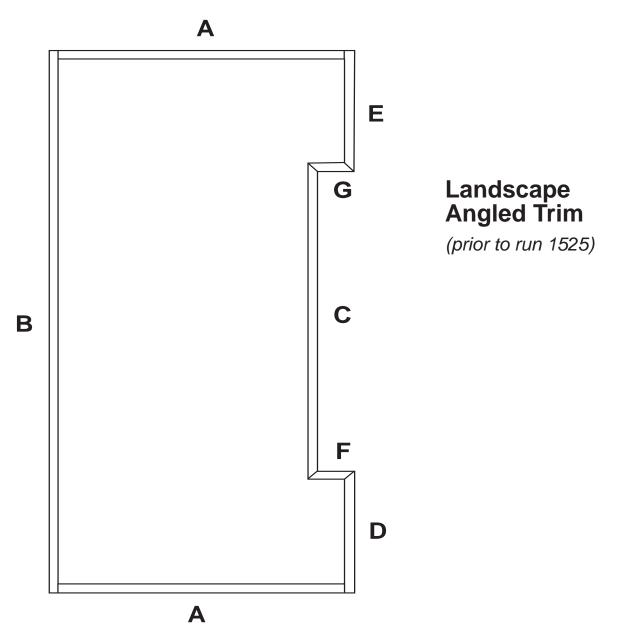


79" Wide Landscape (Kit # 143509)			
Item	Part Number	Length (inches)	
A	141552	34.63	
В	141553	76.25	
C	143511	42.12	
D	143512	16.00	
E	815311		
F	815312		
72" Wide Landscape (Kit # 142507)			
A	141552	34.63	
В	142502	68.75	
C	143511	42.12	
D	142508	12.25	

Item	Part Number	Length (inches)
A	258507	29.19
В	142502	68.75
C	143511	42.12
D	142508	12.25
E	815311	
F	815312	

815311 815312

E



79" Wide	Landscape	(Kit #	141590)

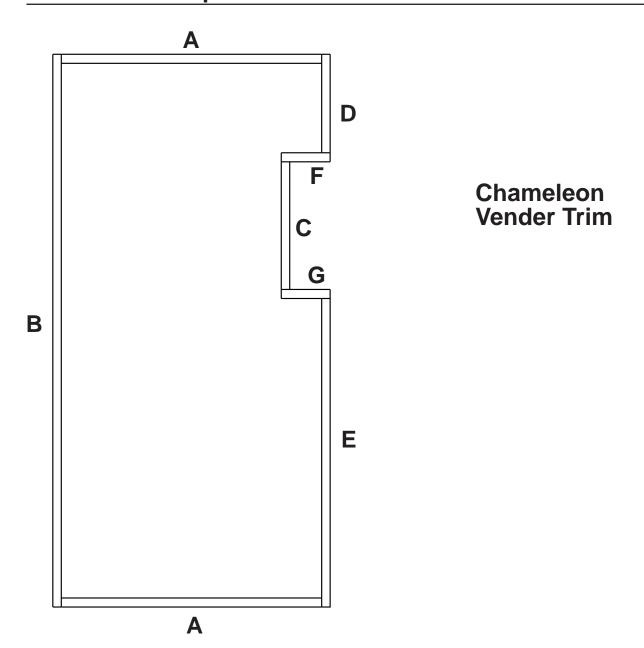
	ae zamasempe (1110	1 .10/0)
Item	Part Number	Length (inches)
A	141552	34.63
В	141553	76.25
C	141556	44.38
D	141555	17.06
E	141554	1706
F	141558	5.63
G	141557	5.63

72" Wide Landscape ((Kit#	142530)
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-	Trac Zarrascape	(1110 // 1 12000)
A	141552	34.63
В	142502	68.75
C	141556	44.38
D	142504	13.38
Е	142503	13.38
F	141558	5.63
G	141557	5.63

72" Narrow Landscape (Kit # 259520)

'= 'idilo'' Edilascapo (ilic'' 200020)				
Item	Part Number	Length (inches)		
A	258507	29.19		
В	142502	68.75		
C	141556	44.38		
D	142504	13.38		
E	142503	13.38		
F	141558	5.63		
G	141557	5.63		



79" Wide	Chameleon	(Kit # 357503)

79 Wide Chameleon (Kit # 337303)				
Item	Part Number	Length (inches)		
A	141552	34.63		
В	141553	76.25		
C	357505	15.88		
D	143512	16.00		
E	357504	42.25		
F	815311			
G	815312			

72" Wide Chameleon (Kit # 358502)

. –	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1110 000000
A	141552	34.63
В	142502	68.75
C	357505	15.88
D	142508	12.25
E	358503	38.50
F	815311	
G	815312	

72" Narrow Chameleon (Kit # 359504)

'- 'imi'o (
Part Number	Length (inches)			
258507	29.19			
142502	68.75			
357505	15.88			
142508	12.25			
358503	38.50			
815311				
815312				
	Part Number 258507 142502 357505 142508 358503 815311			

CREDIT AND REPLACEMENT POLICY

Credits or replacements will be issued on warranty items if the proper procedures are followed:

- 1. ROYAL VENDORS will pay shipping charges on all parts covered under this warranty when transportation has been made the most economical way. (Example: within the continental USA, regular ground UPS). An A.R.S. (Authorized Return Service) sticker will be sent with all warranty parts. This method of shipping is preferred for returning parts to Royal.
- Credits will only be issued to warranty parts that have been ordered in advance, not for parts ordered as stock. (NO EXCEPTIONS)
- 3. When ordering warranty parts in advance, please have the full vender, refrigeration unit, and / or control board serial numbers.
- **4.** A copy of the Packing Slip, the correct serial number and complete Return Material Tag (provided with part) are required for sending back parts. Please fill out the Return Material Tag completely, keeping the white copy for your records and sending the yellow tag back with the attached part. Make sure you have your company name, address, phone number, serial number, and model number, along with a brief explanation of the problem.
- 5. If the item returned is not under warranty, it will be sent back to you at your expense along with a US\$10.00 handling fee or it will be scrapped.
- **6.** All warranty parts should be properly wrapped and packed securely to avoid further damage. Parts that are returned from the field and have been tapped into, tampered with, not packaged properly or have had the serial plate or label removed, will void the warranty.
- 7. If parts are not returned within 15 working days, the invoice will be due in full.



