



# THE SALES MANAGER ELECTRICAL MDB CONTROL SYSTEM

The Sales Manager electronic MDB control system consists of two printed circuit boards (control and display), with the associated harnesses, brackets, transformers, and hardware. This system is capable of controlling and monitoring all communications with the operator and interfacing with the LED display.

The control board has the capability of controlling from one (1) to fourteen (14) columns concurrently, and the capability of storing multiple prices in \$.05 increments, up to \$99.95 (US). The board will retain its program memory in the event of a power failure.

The display board consists of a four (4) digit display, which indicates credit and price. The display also contains lights to indicate "Try Another Selection" and "Use Correct Change."

### THIS SYSTEM OPERATES WITH:

The MDB control board #1002783 will only operate with the following : 1002783-10

The MDB control board #1002783-1 will operate with the same MDB coinage, DBVs and DEX/UCS for on-board audit. In addition, it will also interface with the following coinage using a multi-price coinage harness, #1006908M.

COINAGE		
MFG	MODEL	DESCRIPTION
Coinco	9302GX	24VDC, 6-pin
Mars	TRC6510	24VDC, 6-pin
DOLLAR BILL VALIDATORS		
MFG	MODEL	DESCRIPTION
Coinco	BA30-BX	110VAC, 6-pin
The following DBVs will interface using a universal DBV harness, pt # 1002058		
MFG	MODEL	
Ardac		US Model
Coinco		CBA-2
Conlux/MAKA		NB-10L
Conlux/MAKA		NB-15A
Mars		VFM1-L1-U2CS
Mars		VFM3-L1-U2CS
DEX/UCS		
DEX/UCS for on-board audit		

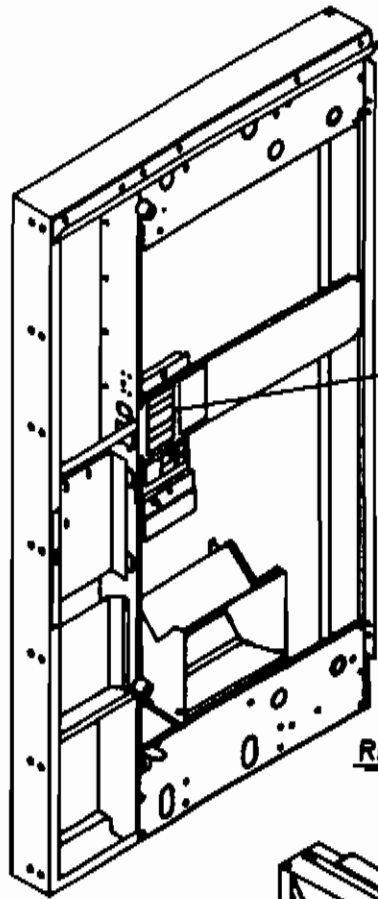
COINAGE		
MFG	MODEL	DESCRIPTION
Coinco	9300L	115VDCM 12-Pin
Coinco	9302LF	24VDC, 15-Pin
Conlux/MAKA	USPX-4	24VDC, 15-Pin
Cointron/ National	C3000	115VDC, 15-Pin
Mars	TRC6010XV	24VDC, 15-Pin
Mars	TRC6000	115VDC, 12-Pin

### PLEASE NOTE:

All coin changers require a minimum amount of coins present in the change tubes to operate the vendor properly. Refer to the changer installation instructions for additional information.

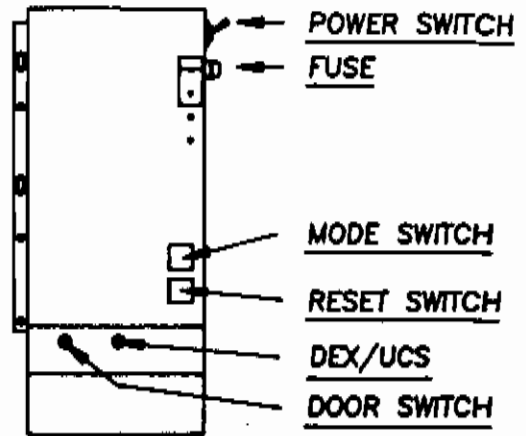
# Vendo

## THE SALES MANAGER ELECTRONICS

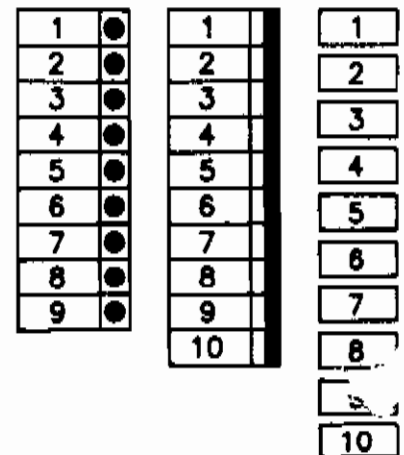


REAR

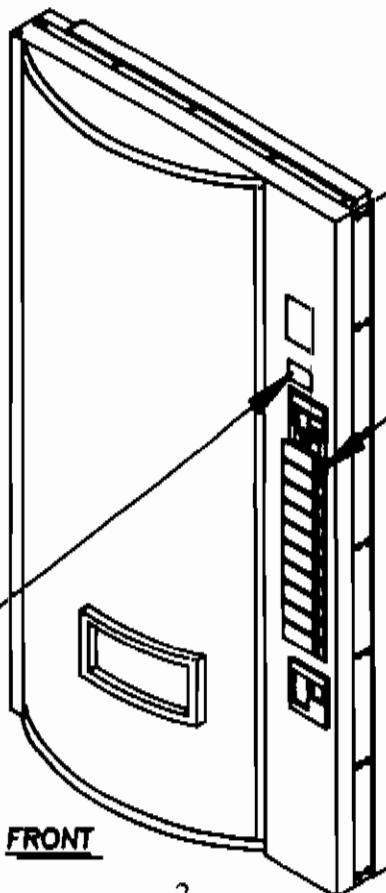
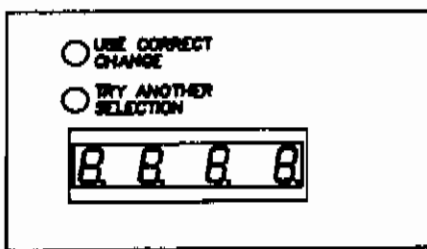
### CONTROL BOARD



### SELECTION BUTTON EXAMPLES



### FOUR DIGIT DISPLAY BOARD



FRONT

## PROGRAMMING

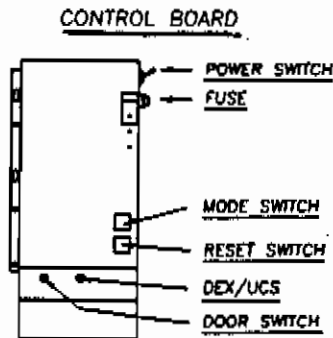
**IMPORTANT: READ ALL INSTRUCTIONS CAREFULLY BEFORE PROCEEDING**

To program the electronic control, it is necessary to press the selection buttons, mode switch, and door switch, in the appropriate sequence.

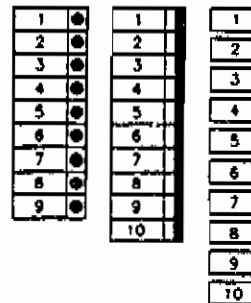
The mode switch will be indicated by: **M**  
 The door switch will be indicated by: **D**  
 The selection buttons will be indicated by: **#1, #2, etc.**  
 The reset button will be indicated by: **R**

At times, it will be necessary to press two switches at the same time. This action will be indicated by [ ] brackets.

Example: [#1 & #2] indicates that selection buttons #1 and #2 must be pressed at the same time.



SELECTION BUTTON EXAMPLES  
UP TO 10 SELECTIONS



**WARNING:** To insure safe operation, and avoid damage to the electronic components, only plug the vendor into a properly-grounded, properly-polarized outlet. The outlet should be tested to insure correct ground polarization. If the outlet does not meet these conditions, consult a qualified electrician and have the necessary corrections made to the outlet wiring.

**WARNING:** Damage may occur to the coin mechanism or the controller if the machine is not unplugged from its power source prior to plugging in the coin changer. Power may also be disconnected by tripping the power switch on the control board box to the "off" position. The warranty will be voided if this procedure is not followed.

# CONTROL BOARD OPERATION INSTRUCTIONS



CONTROL INPUT SUMMARY		
DISPLAY	CONTROL SEQUENCE	MODE / RESPONSE
ER##	(SEE SERVICE MANUAL)	ERROR CODE
.00		READY TO VEND
CAnS .... ####	OPEN DOOR	HISTORICAL TOTAL VENDS DISPLAYED
####. ####. ....	#1, #2. ....	NUMBER OF VENDS PER SELECTION #1, #2. ....
CASH .... ####	[#1, #2] OR WAIT 15 SEC.	HISTORICAL CASH
CPO	M	OPERATE PAY OUT TUBES
\$ .05	#1	\$ .05
\$ .10	#2	\$ .10
\$ .25	#3	\$ .25
\$ 1.00	#4	\$ 1.00
TEST	M, M	TEST VEND MODE
C01, C02, ....	#1	INCREASE COLUMN NUMBER TO BE TESTED.
C14, C13, ....	#2	DECREASE COLUMN NUMBER TO BE TESTED.
	#3, #4, ....	VEND SELECTED COLUMN.
COST	M, M, M	SET PRICE MODE
		PRESS #XX ONCE & HOLD = CURRENT PRICE
		PRESS 2ND. TIME & HOLD = PRICE INCREASE
		PRESS 3RD. TIME & HOLD = PRICE DECREASE
OP1S	M, M, M, M	SET OPTION MODE - CASH HANDLING
1	#1	FORCE VEND -
2	#1	CHANGE MACHINE
3	#1	NEUTRAL (DO NOT USE WITH HIGH LEVEL DBV)
OP1S	M, M, M, M	SET OPTION MODE - EXACT CHANGE REQUIREMENT
1	#2	WHEN EXACT CHANGE LIGHT IS ON
2	#2	EXACT CHANGE REQUIRED FOR PURCHASE
		ALLOW PURCHASE WITH ESCROW GREATER THAN VEND PRICE
OP1S	M, M, M, M	SET OPTION MODE - DISPLAY SHOWS A LOWER CASE 0
1	#3	TO INDICATE JAMMED COLUMNS.
2	#3	ON
		OFF
OP1S	M, M, M, M	SET OPTION MODE - FAST SINGLE PRICE SETTING
1	#4	INDIVIDUAL VEND PRICES
2	#4	SEL. #1 = ALL VEND PRICES
OP1S	M, M, M, M	SET OPTION MODE - DOOR CLOSED DATA RETRIEVAL
1	#5	RESET & PASSCODE.
2	#5	OFF
	#1 & #4 TOGETHER & HOLD 3 SECONDS	ON, CHANGE PASSCODE CAN BE CHANGED
		RESET ALL SELECTION REGISTERS TO ZERO
OP1S	M, M, M, M	DISPLAY SOFTWARE REVISION LEVEL
	#6	2 PART SOFTWARE REVISION
SSS	M, M, M, M, M	SPACE TO SALES MODE
C 01	#XX	DISPLAY S.T.S. / SELECTION
C 02, C 03, ....	#XX & HOLD 2 SEC.	CHANGE S.T.S. / SELECTION
C 14, C 13, ....	#1	INCREASE COLUMN NUMBER
	#2	DECREASE COLUMN NUMBER
	#3	CHANGE STATE OF CONNECTION
		(FLASHING DISPLAY = CONNECTED)
		(CONTINUOUS DISPLAY = UNCONNECTED)
	#4	RECORD DATA
SSSS	M, M, M, M, M, R, R	PRESET SPACE TO SALES MODE
	#XX	LOAD PRESET S.T.S. (SEE SERVICE MANUAL)
LCIL	M, M, M, M, M, M	SELECTION LOCKOUT MODE
		OPTIONAL TIMER REQUIRED
		PRESS #XX = SHOW STATE
		PRESS #XX AGAIN = CHANGE STATE
YES		ALLOWS SELECTION TO VEND WHEN TIMER SWITCH IS CLOSED
NO		SELECTION WILL NOT VEND WHEN TIMER SWITCH IS CLOSED

M = MODE SW., #XX = SELECTION SW., [X, X] = PRESS TWO SW. TOGETHER., R = RESET SW.

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## A. CUSTOMER INTERFACE

To enter this mode, close the door.

### BEFORE CREDIT IS ESTABLISHED:

ACTION		CONDITION
Press any Selection	If all price settings are not the same, with vendable product in column	Display will show "Selection Price"
	If all prices are set the same	Display will continue to show product price
	If selection is sold-out or jammed	"Try another selection" LED will flash and display will show sold-out

### AFTER CREDIT IS ESTABLISHED:

After credit is established	Credit amount is displayed
Press any selection button	
If "try another selection" LED is flashing	Column is sold out, selection has been temporarily turned off, jammed, or has insufficient credit
If "use correct change" LED is flashing	Cannot make change--use correct change
If "Try another selection" LED remains illuminated	All columns are sold out

*Note: If credit is established, and a selection is not made, any credit remaining for 5 minutes will be removed, and the money will not be paid back. Money not returned will not be added to the MIS data base.*



## DIAGNOSTICS / ERROR CODES

### **ERROR CODE ER-1**

To enter this mode, open the door and press the mode switch one (1) time, or, while in the alternate test mode, press the mode switch one (1) time.

<b>ACTION</b>	<b>DISPLAY</b>
If there are any jammed vend columns	Display will show ER-1
If the vendor is in the sub-code mode	Display will scroll and show jammed columns: CJ1, CJ2...CJ14
After clearing the column	Test vend the column (see test vend section)
Note: If a motor controls two columns, both columns will need to be test vended to clear the error codes, even if only one column was jammed.	

### **ERROR CODE ER-3**

Door open for one hour

<b>ACTION</b>	<b>DISPLAY</b>
Door open for one hour	Display will show ER-3 _ _ _
ER-3 error is cleared by the DEX/UCS MC5*RES command, or, while in the sub-code mode, press any selection button for two seconds while the ER-3 code is displayed while in the service mode.	

### **ERROR CODE ER-4**

Selection switch error--stuck switches

<b>ACTION</b>	<b>DISPLAY</b>
If any switches are now, or have been stuck for at least 15 seconds	Display will show ER-4
If the vendor is in the sub-code mode	Display will scroll and show each stuck switch "SS1," "SS2," ... "SS10"
Stuck switches are updated when another switch is stuck for 15 seconds. They are automatically cleared when there are no stuck switches pushed or stuck.	

## DIAGNOSTICS / ERROR CODES (CONTINUED)

### **ERROR CODE ER-5**

MDB changer error (Changer communication error, Tube sensor error, or inlet chute blocked—This error code is only valid with MDB changers)

ACTION	DISPLAY
If any errors "CC," "TS," or "IC" are flagged	Display will show ER-5
If the vendor is in the sub-code mode	Display will show "CCO," "TUBE," or "ICb"
<p>"CCO" Coin changer communication error is set if there are excessive communication errors with the MDB coin changer. It is cleared after communication is reestablished.</p> <p>"TUBE" Tube sensor error is reported by the MDB coin changer.</p> <p>"ICb" Inlet chute is blocked--reported by TSM program when no coins have been received for 97 hours</p>	
<p>NOTE: ER-5 is cleared by the DEX/UCS MCB*RES command, or, while in the sub-code mode, by pressing any selection button for two seconds while the ER-5 code is displayed. The individual errors can similarly be cleared by pushing any selection button for two seconds while the ER-5 code is displayed while in the service mode</p>	

### **ERROR CODE ER-6**

MDB Changer Error (excessive escrow attempts, coin jammed, and low-acceptance rate—this error is only valid with an MDB changer)

ACTION	DISPLAY
If there are any coin errors	Display will show ER-6
If the vendor is in the sub-code mode	Display will show "ESC," "JA _," or "LO _"
<p>"ESC" Excessive escrow attempts are reported, if there are 20 escrow attempts reported to the TSM program within an one-minute period.</p> <p>"JA _" Coin jam is reported by the MDB coin changer</p> <p>"LO _" Low acceptance rate is sensed by the TSM program when a string of 40 slugs in a row are received, or 40 slugs are reported during the same time that 100 good coins are reported.</p>	
<p>NOTE: ER-6 error is cleared by the DEX/UCS MC5*RES command, or while in the sub-code mode, press any selection button for two seconds while ER-6 is displayed. The individual errors can similarly be cleared by pushing any selection button for two seconds while ER-6 is displayed when in the service mode.</p>	

## DIAGNOSTICS / ERROR CODES (CONTINUED)

### **ERROR CODE ER-8**

Space-to-sales assignment errors.

NOTE: There is only one space-to-sales assignment error that is reported by the TSM program, via the LED display:

ACTION	DISPLAY
A selection button was missed during the switch assignment (a selection button that is not assigned to any column, while a higher number switch is assigned)	Display will show ER-8
If the vendor is in the sub-code mode	Display will scroll and show each unassigned switch: "SS 1," "SS 2," ... "SS 9"
NOTE: ER-8 is cleared by reprogramming the unassigned switch(s) to column(s) in the assign space-to-sales mode.	

### **ERROR CODE ER-9**

Dollar-bill validator error code (Bill box open, validator sensor error or bill jam error—This error is valid with an MDB validator only)

ACTION	DISPLAY
Bill validator box open error	Display will show ER-9
NOTE: ER-9 is cleared when the validator box is closed.	

*Press Mode once press Btn 2 hold to clear*





## A. CUSTOMER INTERFACE (CONTINUED)

### HISTORICAL TOTAL VENDS DISPLAYED:

To enter this mode, open the outer and inner doors to gain access to the control board. This action automatically actuates the door switch.

ACTION	CONDITION
When the door is opened, if no error codes are displayed	Display will first show "nonE" then "CAnS" Followed by historical total cans
If a column is jammed, pressing selection buttons [#1 & #2] together	Bypasses the jammed column displayed and displays historical cans vended
Press selection button #1 one time	Display will show total vends for #1 selection since reset
Press selection button #2 one time	Display will show total vends for #2 selection since reset
Continue to press desired selection buttons; display will show total vends since reset for each selection	

*Note: If no buttons are pressed for 15 seconds after the door is opened, the control will go directly to "Display Historical Cash" mode; if vends-per-selection has been activated, and no buttons are pressed for 15 seconds, the control will go to the alternate test vend mode.*

The resettable register will store at least four digits, and will accumulate up to 9999 before rolling over to 0000. The last four digits will be displayed. The resettable feature is engaged by the selection of a reset button, located on the control board. The total-vend register is not resettable. NOTE: DEX download will also cause resettable registers to reset to "0000."

**CAUTION:** *To control inventory, a reading should be taken either during or before loading each column, and prior to pressing the reset switch, or performing a DEX download. If a reading is not taken, depressing the reset switch will zero out all of the registers attached to it, including the product vended by selection.*

**NOTE:** *If no selection buttons are pressed for fifteen seconds, the control will return to the alternate test vend mode.*



**A. CUSTOMER INTERFACE (CONTINUED)**

**HISTORICAL CASH MODE:**

To enter historical-cash mode, open the outer and inner doors to gain access to the control board. This action automatically actuates the door switch.

SELECTION BUTTONS	ACTION
Press selection buttons [#1 & #2] at the same time	Display first show "CASH" then scroll and display the historical cash numbers
Increment #1	Shows four digits for value, with no decimal point
Increment #2	Shows the last two digits of the dollars, a decimal point, and the cent value
<b>Example:</b> \$125.35 = Value of vends	
Increment #1	Displays as _ _ _ 1
Increment #2	Displays as 2 5 . 3 5
Display will alternate between high and low	

*NOTE: If no selections are pressed within 15 sec, the control will return to the alternate test vend mode. Closing the inner and outer doors will exit the data retrieval mode and return the control to stand-by.*

**ALTERNATE TEST VEND MODE:**

This mode is entered into immediately after the outer and inner doors are opened, and the data retrieval process has been completed.

ACTION	CONDITION
After credit is established, if no columns are jammed	Credit amount is displayed
If a jammed column is displayed, press selection buttons [#1 & #2] together	Bypasses the jammed column that is displayed
Press the desired selection button to be test vended	Selection will vend, pay back any change required & function as if the door were closed
Note: During test vend, vends and money collected will not be recorded in the MIS registers.	

To leave this mode, close the inner and outer doors or press the mode switch. Any remaining credit will be paid back upon leaving the alternate test vend mode.

## A. CUSTOMER INTERFACE (CONTINUED)

### SERVICE MODE--JAMMED COLUMNS:

To enter this mode, open the outer and inner doors to gain access to the control board. This action automatically actuates the door switch.

ACTION	CONDITION
Press the mode switch one time:  M	If no jam is indicated, display will show "CPO"  If more than one jam is indicated, display will scroll and show CJXX. "X X" indicates the column number that is jammed. CJ 1, CJ 2 for columns #1 and #2
After clearing the jammed column	Test vend the column--see Test Vend section.
Note: If a motor controls two columns, both columns will need to be test vend to clear the error codes (refer to diagnostics / error codes section)	

## B. CASH PAY-OUT

To enter Cash Pay-Out mode, open the outer and inner door to gain access to the control board. This action automatically actuates the door switch.

### TO OPERATE PAY-OUT TUBES:

ACTION	CONDITION
MULTI-PRICE	
Press mode switch M one time	Display will show C P O
Press selection button #1	Dispenses \$.05
Press selection button #2	Dispenses \$.10
Press selection button #3	Dispenses \$.25
Press selection button #4	Dispenses \$1.00 (if the changer has this option)

To leave this mode, wait 15 seconds, close the door, or press the mode switch.

*Note: If error codes are not cleared, the mode switch must be pressed one additional time.*

## C. TEST-VEND MODE

To enter this mode and allow test vends, open the outer and inner doors to gain access to the control board. This action will automatically actuate the door switch.

Use selection buttons #1 and #2 to increase or decrease the column number.

ACTION	CONDITION
Press the mode switch in the following sequence: M, M	All columns set to test vend. Display will show "TEST"
Press selection button #1	Increases the column number selected by one
Press selection button #2	Decreases the column number selected by one
Press selection button #3 or higher	The selected column will test vend one time
NOTE: During the test-vend mode, the sold-out switch is not observed. Thus, a column that is sold out will operate when selected.	

To leave the test-vend mode, press the mode switch one time or close the inner and outer doors, or wait 15 seconds.

## D. SET-PRICE MODE

To enter the set-price mode, open the outer and inner doors to gain access to the control board. This action automatically actuates the door switch.

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M	Display will show "COST"
Press any selection button once	Price will be displayed
Depress the same selection button a second time and hold it until the desired price is shown	Display will show an increase in price in \$.05 increments
Depress the same selection button a third time and hold it until the desired price is shown	Display will show a decrease in price in \$.05 increments
By continuing to depress and release the selection button, the price will increase or decrease in \$.05 increments, until the desired price is shown	

**NOTE—FREE VEND:** *A zero price for a selection enables that selection to be free vended. If columns are sold out, machine will not vend.*

To leave set-price mode, close the inner and outer doors, push the mode switch, or wait 15 seconds for the control to return to the alternate test vend mode.



## E. OPTION MODE

To enter service mode, open the outer and inner door to gain access to the control board. This action automatically actuates the door switch.

### SET-OPTION MODE—CASH HANDLING:

Definition of cash-handling numbers 1, 2, & 3:

If 1 is displayed	Force Vend	If a dollar is accepted and stacked, customer must make a vend unless the selection is sold out. If selection is sold out, pushing the scavenger lever will allow change to be returned.
If 2 is displayed	Change Machine	If a dollar is accepted and stacked, pushing the scavenger lever will return four quarters.
If 3 is displayed	Neutral	Do not use this option with a high-level DBV.* With a low-level DBV interface, the bill is held in escrow. Pushing the scavenger lever will return the bill.

**\*WARNING:** *The vendor will not operate with a high-level DBV in the neutral (3) setting. This configuration will cause all functions to shut down.*

To set cash handling for force vend, change machine or neutral settings:

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPTS"
Press #1 selection button one time	Display will show one of three numbers: 1, 2, or 3
Press #1 selection button again	Display will show the next number
Continue to press selection button #1. The numbers 1, 2, & 3 will repeat in sequence until the desired setting is reached.	

To leave the cash-handling mode, depress the mode switch once, close the outer and inner doors, or wait 15 seconds.



### E. OPTION MODE (CONTINUED)

To enter the service mode, open the outer and inner door to gain access to the control board. This action automatically actuates the door switch.

#### SET OPTION MODE—EXACT CHANGE CASH HANDLING

Definition of display—option numbers 1 & 2:

If 1 is displayed	Exact change is required
If 2 is displayed	Changer will make best possible attempt to pay back change after a vend

To set exact change cash handling settings:

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPTS"
Press #2 selection button one time	Display will show one of two numbers: 1 or 2
Press #2 selection button again	Display will show the next number
Continue to press selection button #2. The numbers 1 & 2 will repeat in sequence until the desired setting is reached.	

#### SET OPTION MODE—DISPLAY SHOWS A LOWER-CASE (L.C.) 0

Definition of display shows lower case 0—option numbers 1 & 2:

If 1 is displayed	Setting is enabled—will show L.C. 0 when at least one selection is sold-out or column is jammed
If 2 is displayed	Setting is disabled—will not show L.C. 0 when sold-out or jammed

To set display lower-case 0 settings:

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPTS"
Press #3 selection button one time	Display will show one of two numbers: 1 or 2
Press #3 selection button again	Display will show the next number
Continue to press selection button #3. The numbers 1 & 2 will repeat in sequence until the desired setting is reached.	

To leave the service mode, depress the mode switch once or close the outer and inner doors or wait 15 seconds.

## E. OPTION MODE (CONTINUED)

To enter the service mode, open the outer and inner door to gain access to the control board. This action automatically actuates the door switch.

### SET OPTION--FAST SINGLE-PRICE SETTING MODE:

Definition of fast single-price setting--option numbers 1 & 2:

If 1 is displayed	Sets selection vend price to individual price settings
If 2 is displayed	Automatically sets all vend prices equal to the price of selection #1

To set fast single-price setting option:

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPTS"
Press #4 selection button one time	Display will show one of two numbers: 1 or 2
Press #4 selection button again	Display will show the next number
Continue to press selection button #4. The numbers 1 & 2 will repeat in sequence until the desired setting is reached.	

To leave the service mode, depress the mode switch once or close the outer and inner doors or wait 15 seconds.



## E. OPTION MODE (CONTINUED)

### SET DOOR-CLOSED-DATA-RETRIEVAL MODE:

To enter this mode, open the outer and inner doors to gain access to the control board.  
This action automatically actuates the door switch.

Definition of door closed data retrieval numbers 1 & 2:

If 1 is displayed	The control will not allow data retrieval through the display with the door closed
If 2 is displayed	The control will allow data retrieval through the display with the door closed

To set door-closed retrieval mode:

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPtS"
Press # 5 selection button one time	Display will show one of two numbers: 1 or 2
Continue to press selection button # 5. The numbers 1 & 2 will repeat in sequence until the desired setting is reached.	
Press # 5 selection button	Until display shows 2
Wait 5 seconds	Display will show a 4-digit number (8, 7, 6, 3—for example) which will be the current passcode
Press selection # 1, through # 4 to change passcode	Selection # 1 will change the passcode on the left side of the display, from 1 to 9. Selection # 2 will change the # 2 position (from the left side of the display) from 1 to 9. Selections # 3 and # 4 will change the code for the number third from the left and on the far right, respectively. The appropriate number will increase continuously as long as the selection button is held in. You cannot select a number higher than the number of selections on the selection panel.

To leave the service mode, depress the mode switch once or close the outer and inner doors or wait 15 seconds.

*Please note: The password must be 4 digits*

*Note: If error codes are not cleared, the mode switch must be pressed one additional time.*

## E. OPTION MODE (CONTINUED)

### TO ENTER THE DATA RETRIEVAL OPTION WITH THE DOOR CLOSED:

A variable four-selection-button passcode is used. By pressing the selection buttons # 1 through # 9, enter the passcode number. The control will enter into the data retrieval mode.

For example: Passcode 8763—push selection # 8, Selection # 7, Selection # 6 and Selection # 3. The LED will show CANS and historical vends. By pressing each selection button, vends per selection since the last reset will show.

### TO RESET ALL SELECTION REGISTERS TO 0 WITH THE DOOR CLOSED:

While in the door-closed-data-retrieval mode, press selection buttons #1 and #4 together and hold them for 3 seconds. This action will cause the resettable registers to be reset to 0. The control will confirm that the reset has been obtained by showing "0 0 0 0" on the display for 3 - 5 seconds. The unit will then return to the normal door closed stand-by mode.

**NOTE:** *Any selections that are set to free vend, that are included in your password number, will not allow closed-door data retrieval.*

### DISPLAY OF SOFTWARE REVISION LEVEL:

To enter this mode, open the outer and inner doors to gain access to the control board. This action automatically actuates the door switch.

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M	Display will show "OPtS"
Press selection # 6 one time	Display will show the software revision level as a two-part number. Display will alternate between the two parts. For example: (2 6.1) and then (1050). These numbers will identify the software revision level and manufacturer's code.

To exit the OPtS mode, press the mode switch once, close the inner and outer doors, or wait 15 seconds.

## F. SET SPACE-TO-SALES MODE (STS)

To enter space-to-sales mode, open the outer and inner doors to access the control board. This action automatically actuates the door switch.

ACTION	CONDITION
Press the mode switch five times (M, M, M, M, M)	Display will show S S S
<b>TO DISPLAY SPACE-TO-SALES SETTINGS</b>	
Press selection button #1	Display will show SL 1, and then C 1, C 2, etc.
Press another selection button	Display will show selection and columns assigned
Continue to press selection buttons	Display will show each selection and each column that is assigned to it.
<b>CHANGING SPACE-TO-SALES SETTINGS</b>	
Press a selection button as desired and hold for 2 seconds	Display will show C 1 (column 1)
Press selection button #1	Displayed column will increase by 1
Press selection button #2	Displayed column will decrease by 1
If a column is assigned and connected to a selection	Column will flash when displayed
If a column is not assigned (not connected to any selection)	Column will be displayed continuously
Pressing selection #3 will connect or disconnect columns from a selection. Columns displayed will be lit continuously or change to flashing (or visa versa).	
Press selection button #4	Will record the data and return the control to the space-to-sales display

**NOTE:** *A column may be assigned to one or more selection buttons. The columns assigned to these buttons will rotate, in sequence, when vended, regardless of which selection button is pressed.*

To leave space-to-sales mode, close the inner and outer doors, press the mode switch when the display is showing SSS, or wait 15 seconds when the display is showing SSS. This action will record the current data set and return the control to stand by mode.

## G. PRESET SPACE-TO-SALES MODE

The control contains 10 preset space-to-sales configurations. Each pre-programmed configuration is assigned to a specific selection button, and the number of selections a vendor has will determine which configurations are available.

PREPROGRAMMED SPACE-TO-SALES CONFIGURATIONS									
SETTING	10	9	8	7, 6	5	4	3	2	1
SEL #	COL	COL	COL	COL	COL	COL	COL	COL	COL
1	2, 4, 6	2, 4, 6	1, 2, 4, 6	1, 2, 4, 6			ALL	1	1
2	8, 11	7, 8, 11	7, 8, 11	7, 8, 9, 11			ALL	--	2
3	14	14	14	14			ALL	--	3
4	10, 13	10, 13	10, 13	10, 13			ALL	--	4
5	1	1	3	3			ALL	--	5
6	3	3	5	5			ALL	--	6
7	5	5	9	12			ALL	--	7
8	7	9	12	---			ALL	--	8
9	9	12	---	---			ALL	--	9
10	12	---	---	---			ALL	--	10

**IMPORTANT:** When moving a control from one machine to another, or when installing a new control, it is important to set the appropriate selection number pre-configured STS setting. This action will ensure that the selection buttons higher than the last selection button for the specific machine are disconnected.

**EXAMPLE:** In a 7-selection vendor, it will ensure that any connections to selection buttons 8, 9, and 10 that were programmed in a previous machine are now removed.

To enter the preset space to sales mode, open the outer and inner doors to access the control board. This action automatically actuates the door switch.

ACTION	CONDITION
Press the mode switch in the following sequence: M, M, M, M, M	Display will show "SSS"
Press the reset button two times: R, R	Display will show "SSSS"
Press a desired selection button, referring to the above chart	Will pre-load the STS configuration assigned to that selection button

**NOTE:** Immediately after loading the selected STS configuration, the control will scroll through the selections and the display will show SL 1, followed by the column now connected to selection #1. The display will continue to scroll until all selections have been shown.



**H. TIME FUNCTION SET MODE**

To enter this mode, open the outer and inner doors to access the control board. This action automatically actuates the door switch.

**DEFINITION OF TIME FUNCTION SET MODE--YES AND NO:**

<b>DISPLAY</b>	<b>OPTION</b>
If "YES" is displayed	Product will vend when the timer switch is closed
If "NO" is displayed	Product will not vend when the timer switch is closed

**TO SET TIME FUNCTION MODE:**

<b>ACTION</b>	<b>CONDITION</b>
Press the mode switch in the following sequence: M, M, M, M, M, M	Display will show "tCtL"
Press any selection button one time	Display will show "YES" or "NO"
Press the same selection button again	Display will show the opposite word
Continue to press the same selection button. The words "YES" or "NO" will be repeated until the desired setting is reached.	

*NOTE: This mode will only function with timer kit part number 1032542M.*

To exit this mode, press the mode switch, close the inner and outer doors, or wait 15 seconds.

<b>WARNING:</b>	If you plan to steam clean or wash down the interior of the vendor with water, remove the control board and the display board prior to washing to avoid damage.
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## J6 - SELECTION SWITCHES

1	SELECTION #1
2	SELECTION #2
3	SELECTION #3
4	SELECTION #4
5	SELECTION #5
6	SELECTION #6
7	KEY
8	SELECTION #7
9	SELECTION #8
10	SELECTION #9
11	SELECTION #10
12	N/C
13	N/C
14	GROUND

## J8 - DISPLAY BOARD

1	VCC
2	CLOCK
3	DATA
4	GROUND

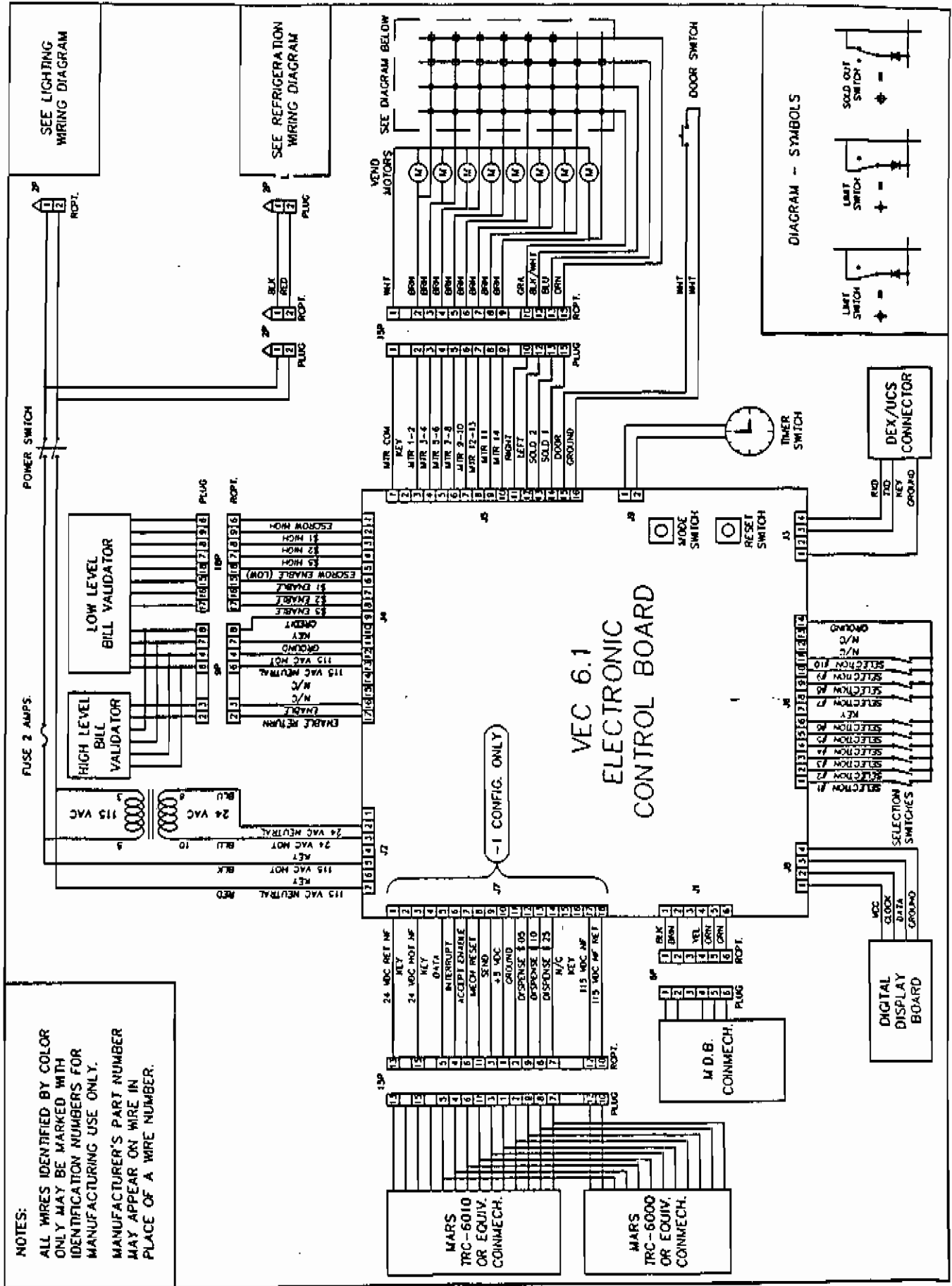
## J9 - TIMER SWITCH

1
2

## J7 - TRC-SERIES COIN MECHANISMS

*NOTE: The J7 pin-outs are only used  
with the 1002788-1 control  
board*

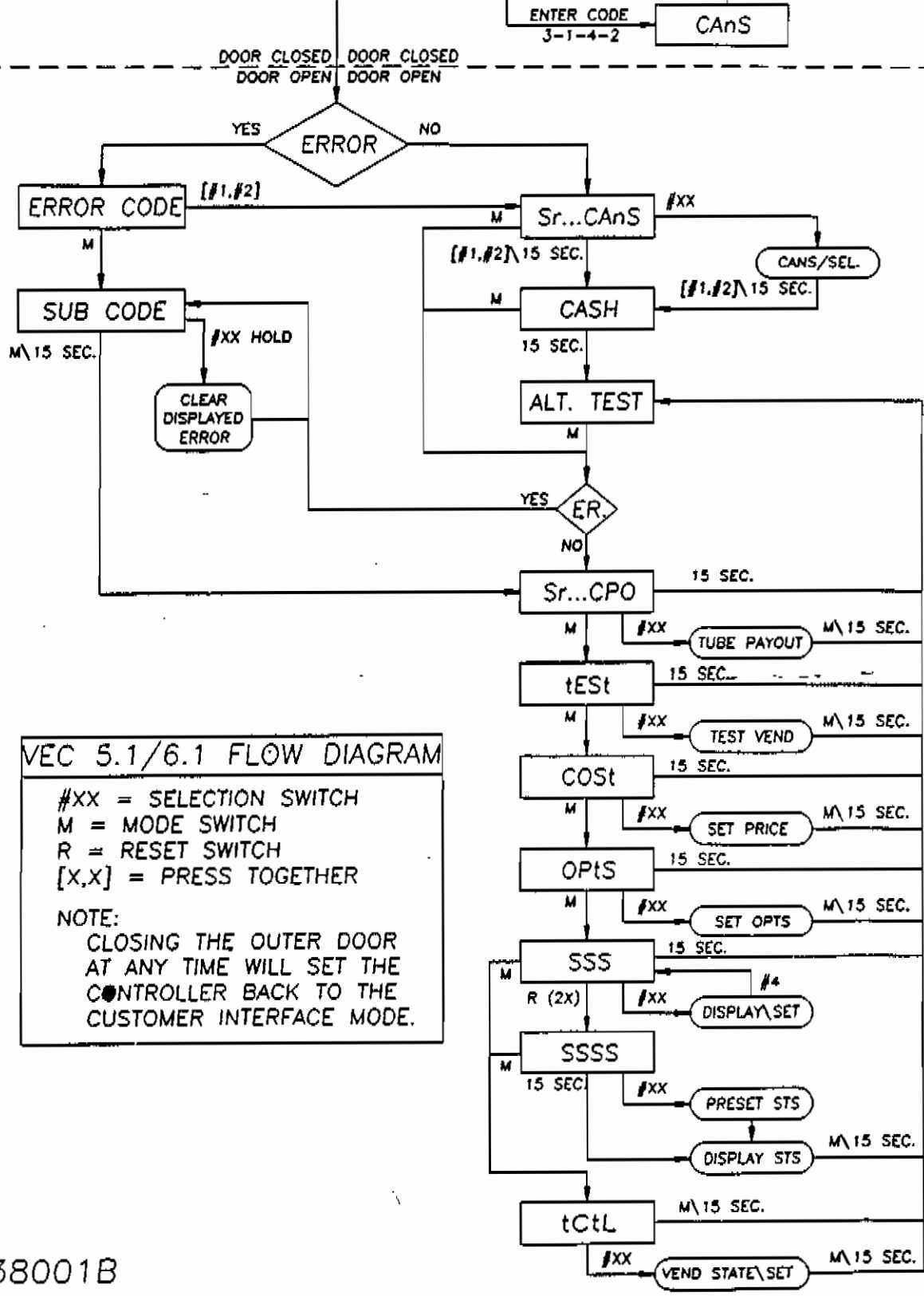
1	24 VDC RET NF
2	KEY
3	24 VDC HOT NF
4	KEY
5	DATA
6	INTERRUPT
7	ACCEPT ENABLE
8	MECH RESET
9	SEND
10	+5 VDC
11	GROUND
12	DISPENSE \$.05
13	DISPENSE \$.10
14	DISPENSE \$.25
15	N/C
16	KEY
17	115 VDC NF
18	115 VDC NF RET



POWER ON MACHINE LOADED 6-10 SELECT 10-14 COLUMN 10028/ '9



CUSTOMER INTERFACE MODE



VEC 5.1/6.1 FLOW DIAGRAM

#XX = SELECTION SWITCH  
 M = MODE SWITCH  
 R = RESET SWITCH  
 [X,X] = PRESS TOGETHER

NOTE:  
 CLOSING THE OUTER DOOR  
 AT ANY TIME WILL SET THE  
 CONTROLLER BACK TO THE  
 CUSTOMER INTERFACE MODE.

1038001B



**THE SALES MANAGER VEC 6.1  
ELECTRICAL CONTROL SYSTEM  
PARTS SUPPLEMENT**

*NOTE: This section is a supplement to "The Sales Manager" parts and service manual #1002147. This supplement only contains parts that are unique to The Sales Manager 6.1 electrical control system.*

<b>ITEM NO.</b>	<b>PART NAME AND DESCRIPTION</b>	<b>QTY REQ'D</b>	<b>PART NUMBER</b>
1	PCB Cover	1	1001329-1
2	PCB Digital Display - Coke	1	1002457
3	Instruction Label - Coke	1	1030108
4	Harness, MDB	1	1002732
5	Instruction Label	1	1046225
6	PCB, Electronic Controller <i>Board</i>	1	<del>1001783-10</del>
7	Flow Diagram Label	1	1038001
8	Wiring Diagram Label	1	1002848
9	MDB Splitter Harness	1	1028006
10	Timer Kit	1	1032542

*NOTE: Please see page 1 of this supplement for a listing of compatible coinage, dollar-bill validators and DEX/UCS.*