9.1 PROGRAMMING SECTION

All programming of the V-Max is done in the service mode as indicated in the following steps below. The main service modes are indicated in white text and the sub-modes are indicated in black text.

Example:

tIne **Time/Date Setting Mode**

- **YeAr** **Year Setting**
- **nth** **Month Setting**
- **dATe** **Date Setting**
- **Hour** **Hour Setting**
- **Dst** **Daylight Saving Time**

THREE-BUTTON PROGRAMMING

All programming of the V-Max options is done in the service mode. To enter the service mode open the vendor door, find the service mode button located on the control board, then press and release the service mode button which is located on the control board. (See Figure 1.) To toggle though all the service modes you will need to use the service mode button.

The first three selection buttons are used to navigate through the programming as follows:

Button	Description	Usage
Selection Button 1	Up/Down	Increase/Decrease, Next/Previous
Selection Button 2	Enter	Go to sub-level, activate function
Selection Button 3	Return	Exit, go back to the previous level

Note: Three-button programming is only used for the following:

1. Time function and all its sub-codes.
2. Open door data retrieval.

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

1. No information from the selection switches is received within approximately 30 seconds.
2. The service mode button is pressed a second time.
3. The (Return) button is pressed.

When the programming is entered, any established credit is returned. When and if the door is closed, the control board will exit the service mode and return to the sales mode.

MIS Data

As soon as the outer door is opened, the non-resettable MIS data will be displayed if no errors exist. "**CAns** XXX" will flash for approximately 40 seconds, indicating the total number of units the machine has sold. After 40 seconds, "**CAsh** XX.XX" will begin to scroll, indicating the total dollar amount the machine has accumulated. **NOTE:** Pressing selection button one will eliminate the 40-second wait time and advance you immediately to the "**CAsh** XX.XX" scroll.

To access MIS data by individual selection, press selection button two during the "**CAns** XXXX" or "**CAsh** XX.XX" scroll. Use selection buttons one and two to advance forward or backward through the selections. Please see page PC-8 to choose between selection by price or selection by sales.

To reset MIS data for individual selections, press selection buttons one and four simultaneously after viewing all desired selections.

NOTE: The MIS data that is displayed when the outer door is opened ("**CAns** XXXX" and "**CAsh** XX.XX") is non-resettable. This data is accumulated over the life of the control board and can only be changed by replacing the control board.

V-MAX CONTROLLER

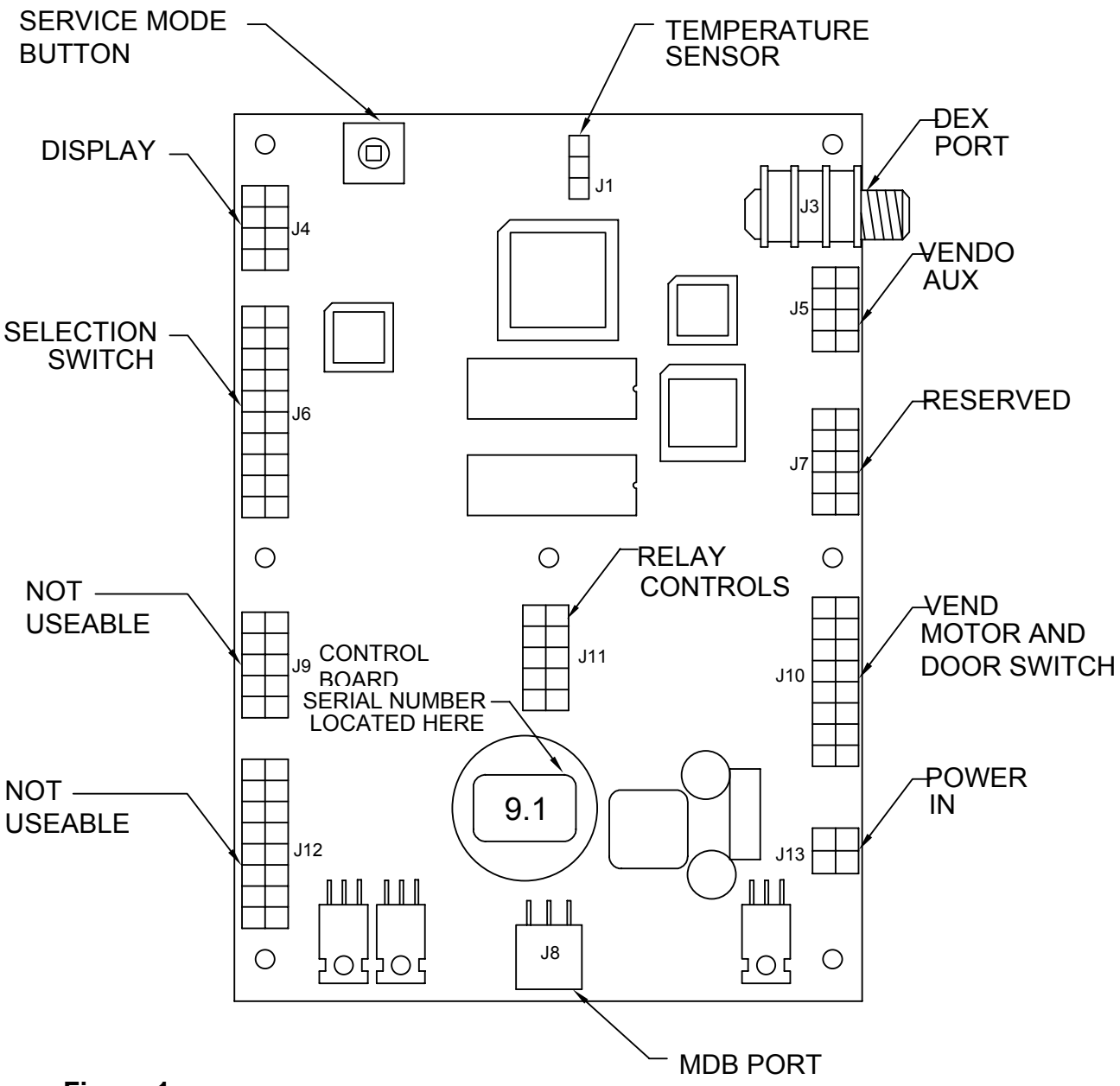


Figure 1

SET-UP AND CODE DESCRIPTION

Eror Error Display Mode

If selection button two is pressed at the "**Eror**" prompt, the controller will enter the Error Display Mode. If no errors have occurred, 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 selection button three is pressed while displaying any summary code, the controller will return to the "**Eror**" prompt.

Note: *See Figure 2 for Error Code Map located on page PC-6.*

EXAMPLE: *"**COLJ**" would indicate a column jam error.*

Clearing an Error

If selection button two is pressed and held for two seconds during the display of the detailed error code, that error will be cleared. If any other detailed errors exist, the next error will now be displayed. If no other errors of this type exist, the next error summary code will now be displayed, or "**nonE**" if no other errors exist.

COIn Coin Pay Out/Tube Fill Mode

If selection button one is pressed at the "**COIN**" prompt, the controller will enter the Coin Pay Out Mode. The display will show the lowest coin value that can be paid out (.5, .10, .25 etc). If any of the buttons (e.g.1-3) is pressed, a pay out of the displayed value will be made. Coins will continue to pay out as long as that selection button is held down.

EXAMPLE*: If selection button one is pressed while 5 cents is displayed it will pay out a nickel.*

Note*: If using a four-tube coin changer, selection button four will allow you to pay out the displayed value.*

When the controller enters the coin tube fill mode, the operator is allowed to deposit any coin into the coin changer's acceptor when that coin's tube is not full. The tube inventory level will be displayed after each coin is accepted.

ERROR CODES				
Open door error code status (as displayed)				Detailed error codes are cleared by pressing selection button 2 for 2 seconds when displayed or automatically by the following:
▽	Summary level error codes (as displayed)			
▽	▽	Detail level error codes (as displayed)		
▽	▽	▽	DESCRIPTION	
nonE			No errors exist	
Eror			One or more errors exist	
	COLJ		Vend mechanism summary error	
		CJXX	Column jam in column XX	Complete a test for column XX
	SELS		Selection switch summary error	
		SSXX	Selection switch XX is stuck closed	Switch XX opens
	StS		Space-to-sales summary error	
		UCXX	Column XX is not assigned to a selection	Column XX is assigned
		USXX	Selection switch XX is not assigned	Selection XX is assigned
	CHnG		Coin changer summary error	
		CC	Changer communication stopped	Changer communication normal
		tS	Tube sense error reported by changer	Changer corrected
		IC	Changer inlet chute blocked	Coin is sensed
		tJ	Pay out tube jam reported by changer	Changer corrected
		CrCH	Check sum error reported by changer	Changer corrected
		EE	Excessive escrow attempts	Coin is sensed
		nJ	Coin jam reported by changer	Changer corrected
		LA	Coin acceptance rate is low	Coin acceptance rate improves
		dIS	Unconnected acceptor reported by changer	Acceptor properly connected
		rout	Coin routing error reported by changer	Coin is routed properly
	bUAL		Bill validator summary error	
		bC	Validator communications stopped	Validator communications normal
		bFUL	Bill stacker full reported by validator	Bills removed from stacker
		bILL	Defective motor reported by validator	Validator corrected
		bJ	Bill jam reported by validator	Validator corrected
		brCH	Check sum error reported by validator	Validator corrected
		bOPn	Bill stacker open reported by validator	Validator corrected
		bS	Bill sensor error reported by validator	Validator corrected
	Crdr		Card reader summary error	
		CrC	Reader communications stopped	Reader communications normal
		CrXY	Error *code X, sub-code Y reported by reader	Reader corrected
	rFrG		Refrigeration system summary error	
		SEnS	Temperature sensor unplugged/defective	Sensor connected/replaced
		CnPr	Cooling system not cooling	System cooling at least 1ºF per hour
		Htr	Heating system not heating	System heating at least 1ºF per hour
	OtHr		Other vendor summary errors	
		dS	Door open for 1 hour	Door Closed
		rAn	Check sum error for service mode setting	Any service mode setting changed
		ACLO	AC voltage is low	
		SF	Scale factor incompatibility	Scale factor is located
		IS	Vendor inlet coin chute sensor is blocked	Blockage is removed
		Ib	Vendor inlet coin chute is blocked	Coin is detected by the changer

Figure 2

SET-UP AND CODE DESCRIPTION (CONTINUED)

tESt **Test Mode**

If selection button one is pressed at the "**tESt**" prompt, the controller will enter the Test Mode. Upon entry into the test mode the display will show the first summary test, "**CO 1**". Pressing selection button one or two will toggle through the column selections. Pressing selection button three will test vend the displayed column. In order to exit the setting, press the service mode button or close the outer door.

LItE **Test Lights**

If the fifth selection button is pressed at the "**tESt**" prompt, the "**LItE**" mode is displayed. If the fifth button is pressed again at the "**LItE**" prompt, the controller will activate the test status of the lights. Pressing the fifth button again de-activates the test status of the lights.

CnPr **Compressor Test Mode**

If the sixth selection button is pressed at the "**tESt**" prompt, the "**CnPr**" mode is displayed. If the sixth button is pressed again at the "**CnPr**" prompt, the controller will activate the test status of the compressor. Pressing the sixth button again de-activates the test status of the compressor.

COSt **Cost Setting Mode (Multi-Price)**

The purpose of this mode is to enable the controller to set the vend price for each of the selections. If selection button one through ten is pressed at the "**COSt**" prompt, the display will toggle "**SL** X" "00" ("X" will indicate the selection buttons and "00" will indicate the selection price). Pressing the same button again will increase or decrease the price. In order to save the selection price, either press the service mode button or close the outer door.

Cost Setting Mode (Single-Price)

The purpose of this mode is to enable the controller to set the vend price for each of the selections. If selection button one is pressed at the "**COSt**" prompt, the display will toggle "**SPRI**" "00" ("00" will indicate the selection price). Pressing the same button again will increase or decrease the price. In order to save the selection price, either press the service mode button or close the outer door.

Note: *Make sure 1.4 is set properly in configuration group 1 mode.*

Example: 1.4 "y" = Single price enabled / Multi-price disabled.
1.4"n" = Multi-price enabled / Single price disabled.

SET-UP AND CODE DESCRIPTION (CONTINUED)

OPt1 Option Group 1 Mode

If selection button one is pressed at the "**OPt1**" prompt, the controller will enter the Option Group 1 Mode. The purpose of this mode is to allow the controller to select the group 1 configuration options desired. Upon entry into this setting the display will show "1.1 y" where "y" is for enable or "n" for disable. Pressing selection buttons 1-5 will display the available options listed below.

EXAMPLE: *"1.1 y" = Option group 1 enabled*
"1.1 n" = Option group 1 disabled

Selection No.	Display	Description
Button #1	1.1 "y" or "n"	Force vend enabled (y) or disabled (n)
Button #2	1.2 "y" or "n"	Bill Escrow enabled (y) or disabled (n)
Button #3	1.3 "y" or "n"	Error/Sold Out indicator "o" enabled (y) or disabled (n)
Button #4	1.4 "y" or "n"	Single Price enabled (y) Multi-Price enabled (n)
Button #5	1.5 "y" or "n"	Sales count by price is enable/ By selection is disable if "Y" = "Yes" Sales count by selection is enable/ By price is disable if "N" = "No"
Button #6	Toggle software info.	Displays controller and software version

OPt2 Option Group 2 Mode

If selection button one is pressed at the "**OPt2**" prompt, the controller will enter the Option Group 2 Mode. The purpose of this mode is to allow the controller to select the group 2 configuration options desired.

Selection No.	Display	Description
Button #1	2.1 "y" or "n"	"Y"- Correct change light indicator is disabled. "N"- Correct change light indicator operates as normal.
Button #2	2.2 "y" or "n"	Allow Overpay enabled (y) or disabled (n)
Button #3	2.3 "y" or "n"	"Y" - Save Credit Timer is enabled holds credit for 5 minutes. "N" - Save Credit Timer is disabled in which credit never times out.
Button #4	2.4 "y" or "n"	Multi-vend enabled (y), Single vend enabled (n)

SET-UP AND CODE DESCRIPTION (CONTINUED)

SSSS Space-to-Sales Setting Mode

If any selection button is pressed at the "**SSSS**" prompt, the controller will enter the Space-to-Sales option. Upon entry into this setting the display will show the current option setting. Pressing any selection button for 3 seconds will change the space-to-sales configuration as listed below. The display will show "**STS** n" where "n" indicates the desired option.

For proper configuration settings refer to the label located on the inner door shear panel (See figure 3)

SPACE-TO-SALES CONFIGURATIONS

	ST10	STS9	STS8	STS7	STS6	STS5	STS4	STS3	STS2	STS1
SEL#	COL	COL	COL	COL	COL	COL	COL	COL	COL	COL
1	1	1,2	1	1	1,2,3	1,2	~	~	ALL	NONE
2	2	1,2	2	2	1,2,3	1,2	~	~	ALL	NONE
3	3	3	3	3	1,2,3	3	~	~	ALL	NONE
4	4	4	4	4	4	4	~	~	ALL	NONE
5	5	5	5	5	5	5	~	~	ALL	NONE
6	6	6	6	6	6	6	~	~	ALL	NONE
7	7	7	7	7	7	7	~	~	ALL	NONE
8	8	8	8	~	8	8	~	~	ALL	NONE
9	9	9	~	~	9	~	~	~	ALL	NONE
10	10	10	~	~	10	~	~	~	ALL	NONE

FIGURE 3

Note: *If none of the space-to-sales configurations are suitable, the operator can use the Custom Space-to Sales Setting Mode.*

CSSS Custom Space-to-Sales Setting mode

If any selection button is pressed at the "**CSSS**" prompt, the controller will enter the Custom Space-to-Sales option. Upon entry into this setting the display will show the current selection setting followed by the columns connected to that selection button.

Programming Connection Option

If any selection button is pressed for more then 3 seconds while at the "**CSSS**" prompt the controller will enter the Custom Space-to-Sales Programming Option. Pressing selection button one or two will increase or decrease the column number displayed. Pressing selection button three will actuate the changed connection status of the column number displayed. Pressing selection button four will save the connection changes and return the controller to the "**CSSS**" prompt.

SET-UP AND CODE DESCRIPTION (CONTINUED)

Cddr Closed Door Data Retrieval Mode

If selection buttons 1-4 are pressed at the "**Cddr**" prompt, the controller will enter the Closed Door Data Retrieval Mode by displaying "XXXX" where "XXXX" is the password. By pressing button number one the controller will display the current password while the first digit is flashing. By pressing the selection button again will allow you to change the password. By following the above direction you may customize your password by using buttons 1-4. Buttons 1-4 will **only** change the digit from 0 to 6 **(see note below)**. In order to save the password, the operator needs to either press the service mode button or close the outer door.

Note: *If one of the digits in the password is "0" it will be disabled since selection button "0" does not exist.*

Note: *This feature is not available when the vend price is set to "0.00".*

rFrG Refrigeration Mode

If selection button one is pressed at the "**rFrG**" prompt, the controller will enter the Refrigeration Control Mode by displaying "**norn**". Pressing selection button one again will toggle the temperature settings from "**hhhh**"(warmest) to "**cccc**"(coldest). If selection button two is pressed, the display will show the temperature sensor reading. If selection button three is pressed, the display will toggle from "**C**" (Celsius) or "**F**" (Fahrenheit). In order to save the refrigeration setting press the service mode button or close the outer door. ***See Figure 4 for proper thermostat setting.***

Note: *The displayed thermostat setting and the actual temperature sensor reading for refrigeration control are listed below:*

Thermostat Setting Displayed	cccc	ccc	cc	c	norn	h	hh	hhh	hhhh
Cut-in Temperature (F)	34º	35º	36º	37º	38º	39º	40º	41º	42º
Cut-out Temperature (F)	30º	31º	32º	33º	34º	35º	36º	37º	38º
Nominal Temperature (F)	32º	33º	34º	35º	36º	37º	38º	39º	40º
Nominal Temperature (C)	0	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4

FIGURE 4

SET-UP AND CODE DESCRIPTION (CONTINUED)

tIne Time/Date Setting Mode

If selection button two is pressed at the "**tinE**" (time) prompt, the controller will enter the Time/Date Setting Mode and display "**CLOC**". Only the first three selection buttons are used to step through the time/date options. Using selection button one will allow the controller to cycle through all available time selection options. If selection button two is pressed, the controller will enter the sub-mode that is displayed. Pressing selection button three at anytime during this operation will return the controller to the "**tInE**" prompt.

CLOC SELECTION OPTIONS	
"**YEAr**"	Current Year (Example: 2002)
"**nth**"	Current Month
"**dAtE**"	Current Date (day of month)
"**hour**"	Current Time (hours, minutes)
"**dSt**"	Daylight Savings Time
"**CtL1**"	Control BLC1 option

YeAr Year Setting Option

If selection button two is pressed at the "**YEAr**" prompt, the display will show the current year. Pressing selection button one will allow you to increase or decrease the year setting. Pressing selection button three will return the controller to the "**YEAr**" prompt and save the current setting.

nth Month Setting Option

If selection button two is pressed at the "**nth**" prompt, the display will show the current month. Pressing selection button one will allow you to increase or decrease the month setting. Pressing selection button three will return to the "nth" prompt and save the current setting.

dAte Date Setting Option

If selection button two is pressed at the "**dAtE**" prompt, the display will show the current date. Pressing selection button one will allow you to increase or decrease the date setting. Pressing selection button three will return to the "**dAtE**" prompt and save the current setting.

SET-UP AND CODE DESCRIPTION (CONTINUED)

Hour Hour Setting Option

If selection button two is pressed at the "**Hour**" prompt, the display will show the current hour. By pressing selection button one the controller will allow you to increase or decrease the hour setting. Pressing selection button three will return to the "**Hour**" prompt and save the current setting.

dSt Daylight Savings Time

If selection button two is pressed at the "**dSt**" prompt, the display will show the current Daylight Savings Time. Pressing and releasing selection button one will toggle the different countries; **AUS** (Australian rules), **EU** (European rules), **OFF** (No daylight savings) and **NA** (North American rules). Pressing selection button three will return to the "**dSt**" prompt and save the current setting.

bLC1 Block Selection Setting

This feature is used to choose a group of selections and the time when those selections will be blocked from vending product. If selection button one is pressed at the "**bLC1**" or "**bLC2**" prompt, the controller will enter the Selection Blocking Control Mode. Upon entry into this program, the display will show the first sub-mode "**CtL1**".
Using selection button one will also let the operator toggle between the following modes:

BLOCK SELECTION OPTIONS	
"**CtL1**"	Controls bLC1 option
"**SbL1**"	Set selection group 1 option
"**Str1**"	Set start time
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours) - see above
"**StP1**"	Set stop time
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours) - see above

Pressing selection button two will save the currently displayed setting and return the user to the "**CtL1**" prompt. Pressing selection button three will return to the "**bLC1**" prompt without saving.

SET-UP AND CODE DESCRIPTION (CONTINUED)

CtL1 Control Blocking Option

If selection button one is pressed at the "CtL1" prompt, the controller will enter the Control Blocking Option. Upon entry into this program the display will show the first summary level codes e.g. "OFF", "On", and "Llt". In order to save the option press selection button number two to lock in the desired setting and then press selection button number three to return to the "CtL1" prompt.

SbL1 Selection Setting

If selection button two is pressed at the "SbL1" prompt, the controller will enter the Selection Setting Option. Upon entry into this setting the display will show the current setting for selection as "S 1y" for enabled and "S 1n" for disabled. To change current setting, press selection button two. The current setting will flash. Pressing selection button one will change the setting. Pressing selection button two will lock in the desired setting. In order to save the setting, press selection button three to return the controller to the "SbL1" prompt.

Str1 Start Time Setting

If selection button two is pressed at the "Str1" prompt, the controller will enter the Start Time Setting Option. Upon entry into this option the display will show "dAY".

dAY Day Setting Option

If selection button two is pressed at the "dAY" prompt, the current day of the week is displayed. The days are displayed as follows:

"nnoX" Monday
"tUEX" Tuesday
"UUEX" Wednesday
"tHUX" Thursday
"FriX" Friday
"SAtX" Saturday
"SunX" Sunday
"ALL" All Days

"Y" = Setting is enabled.
"N" = Setting is disabled.

Pressing selection button one at this point will toggle through the days of the week. Pressing selection button two when a day (e.g. nnoX) is displayed will start "X" to flash. Pressing selection button one will toggle between "y" for enabled and "n" for disabled. To lock in desired setting, press selection button two. In order to save the day option press selection button three to return the controller to "dAY" prompt.

SET-UP AND CODE DESCRIPTION (CONTINUED)

Hour **Start Time Hour Setting**

If selection button one is pressed at "**dAY**" prompt, the controller will enter the "**hour**" prompt. Pressing selection button two will enter into the hour setting. Pressing selection button one will increase or decrease the start time. Press selection button three to save the current setting and return to the "**hour**" prompt.

StP1 **Stop Time Setting**

If selection button two is pressed at the "**StP1**" prompt, the controller will enter the Stop Time Setting Option. Upon entry into this option the display will show "**dAY**".

nrG1 **Low Energy Operation**

This feature is used to choose whether the low energy operation, including refrigeration and/or lights, will occur. If selection button two is pressed at the "**nrG1**" or "**nrG2**" prompt, the controller will enter the Low Energy Options. Upon entry into this program the display will show the first summary level code "**CtL1**". Pressing selection button three will save the currently displayed setting and return the user to the "**CtL1**" prompt. Using selection button one will also let the operator toggle between the following modes:

LOW ENERGY OPTIONS	
"**CtL1**"	Controls **bLC1** option
"**LItX**"	Set lighting during "**nrG1**" status
"**rFGX**"	Set refrigeration temperature
"**Str1**"	Set start time
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours)
"**StP1**"	Set stop time - see above
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours)

Note: *For "**CtL1**", "**Str1**" and "**dAY**" setting refer to page PC-13. For "**Hour**" setting refer to page PC-12.*

SET-UP AND CODE DESCRIPTION (CONTINUED)

LItx **Light Setting During Low Energy**

This feature is an additional sub-mode of **nrG1/nrG2**. This will let you choose if the lights are included or excluded from the low energy operation. If selection button two is pressed at the "**LIt**X" prompt, the controller will enter the Light Setting Option. Upon entry into this program the display will show the current setting "**LIt**y" for enabled and "**LIt**n" for disabled. If selection button one is pressed and released it will toggle through the valid selections. Pressing selection button three will save the currently displayed setting and return the user to the "**CtL1**" prompt.

"Y" = Enable low energy option.

"N" = Disable low energy option.

rFGx **Refrigeration Temperature Set Back During Low Energy**

This feature is an additional sub-mode of **nrG1/nrG2**. This will let you choose if the refrigeration system is included or excluded from the low energy operation. If selection button two is pressed at the "**rFGy**" prompt, the controller will enter the Refrigeration Setting Option. Upon entry into this program the display will show the current setting "**rFGy**" for enabled and "**rFNn**" for disabled. If selection button one is pressed and released it will toggle through the valid selections. Pressing selection button three will save the currently displayed setting and return the user to the "**CtL1**" prompt.

"Y" = Enable temperature set back.

"N" = Disable temperature set back.

SET-UP AND CODE DESCRIPTION (CONTINUED)

dISC Discount Setting Mode

This feature is used to choose a group of selections that will be discounted, the amount of discount, and the time when the discount will occur. If selection button two is pressed at the "**dISC**" prompt, the controller will enter the Discount Setting Mode. Upon entry into this program the display will show the "**CtL1**". If selection button one is pressed and released it will toggle through the discount setting mode as listed below. In order to save the setting press the service mode button or close the outer door. Pressing selection button three will save the currently displayed setting and return the user to the "**dISC**" prompt.

DISCOUNT SETTING OPTIONS	
"**CtL1**"	Enable/Disable discount setting
"**SdSC**"	Selection Setting
"**Strt**"	Set start time
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours)
"**LESS**"	Set Discount amount
"**StoP**"	Set stop time
"**dAY**"	Set days to time
"**Hour**"	Set time to start (24 hours)

Note: *For "**CtL1**", "**Strt**" and "**dAY**" setting refer to page PC-13. For "**Hour**" setting refer to page PC-12.*

SdSC Selection Setting

If selection button two is pressed at the "**SdSC**" prompt, the controller will enter the Selection Setting Option. Upon entry into this program the display will show the current setting for selection as "**S 1y**" for enabled and "**S 1n**" for disabled. If selection button one is pressed it will cycle through the valid selections or "**ALL**". Pressing selection button three will save the currently displayed setting and return the user to the "**SdSC**" prompt.

"Y" = Enable selection setting.
"N" = Disable selection setting.

SET-UP AND CODE DESCRIPTION (CONTINUED)

LESS Set Discount Amount

If selection button two is pressed at the "**LESS**" prompt, the controller will enter the Discount Amount Option. Upon entry into this program the display will show the current four-digit discount amount. If selection button one is pressed it will increase or decrease the lowest discount amount. Pressing selection button three will save the currently displayed setting and return the user to the "**LESS**" prompt.

OUer Over-Ride Mode (Units equipped with optional key switch)

This feature is used to allow you to manually over-ride (via a key switch) pricing, blocking, low energy operation and discounting. If selection button two is pressed at the "**OUEr**" prompt, the controller will enter the Over-Ride Mode. Upon entry into this program the display will show "**FrEn**". If selection button one is pressed it will cycle through the over-ride setting options as listed below. Pressing selection button three will save the currently displayed setting and return the operator to the "**OVEr**" prompt.

OVER-RIDE SETTING OPTIONS	
"**FrEn**"	Enable/Disable free vend (Edit mode Y/N)
"**bLCn**"	Selection blocking over-ride
"**nrGn**"	Low energy over-ride
"**dSCn**"	Discounting over-ride

FrEn Over-Ride Free Vend

If selection button two is pressed at the "**FrEn**" prompt, the controller will enter the Free Vend Enable Option. Upon entry into this program the display will show the current setting "**FrEn**". Pressing selection button one will toggle between "y" for enabled and "n" for disable. Pressing selection button three will save the currently displayed setting and return the operator to the "**OVEr**" prompt.

"Y" = Enable free vend.
"N" = Disable free vend.

SET-UP AND CODE DESCRIPTION (CONTINUED)

bLCn Over-Ride Selection Blocking

If selection button two is pressed at the "**bLCn**" prompt, the controller will enter the Selection Blocking Over-Ride Enable Option. Upon entry into this program the display will show the current setting "**bLCn**". Pressing selection button one will toggle between "Y" for enable and "N" for disable. Pressing selection button three will save the currently displayed setting and return the operator to the "**OVEr**" prompt.

"Y" = Enable selection blocking.
"N" = Disable selection blocking.

nrGn Over-Ride Low Energy Status

If selection button two is pressed at the "**nrGn**" prompt, the controller will enter the Over-Ride Low Energy Option. Upon entry into this program the display will show the current setting "**nrGy**" for enable and "**nrGn**" for disable. Pressing selection button three will save the currently displayed setting and return the operator to the "**OVEr**" prompt.

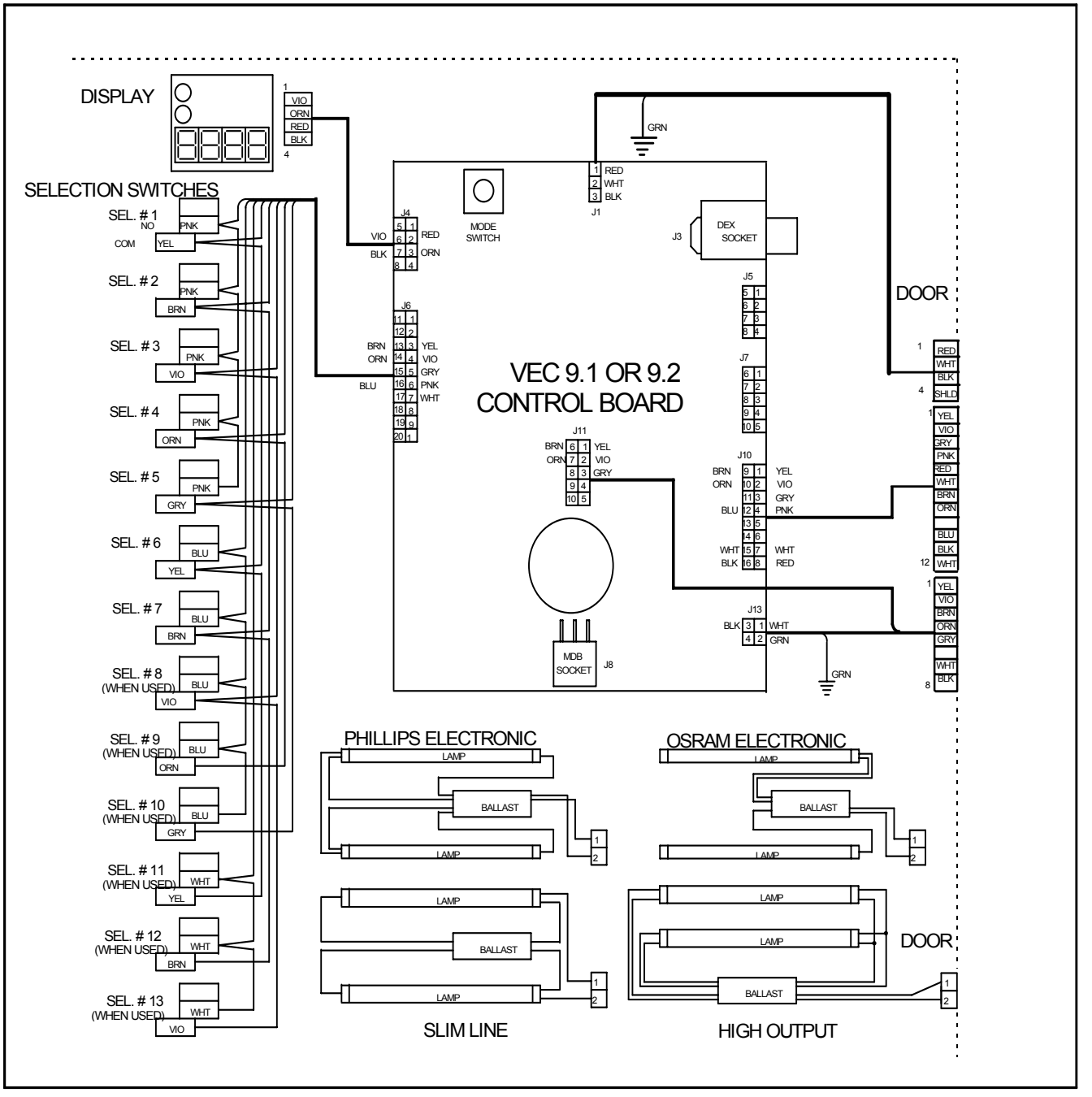
"Y" = Enable Over-Ride Low Energy blocking.
"N" = Disable Over-Ride Low Energy blocking.

DSCn Over-Ride Discount

If selection button two is pressed at the "**dSCn**" prompt, the controller will enter the Discounting Over-Ride Enable Option. Upon entry into this program the display will show the current setting "**dSCy**" for enable and "**dSCn**" for disable. Pressing selection button three will save the currently displayed setting and return the operator to the "**OVEr**" prompt.

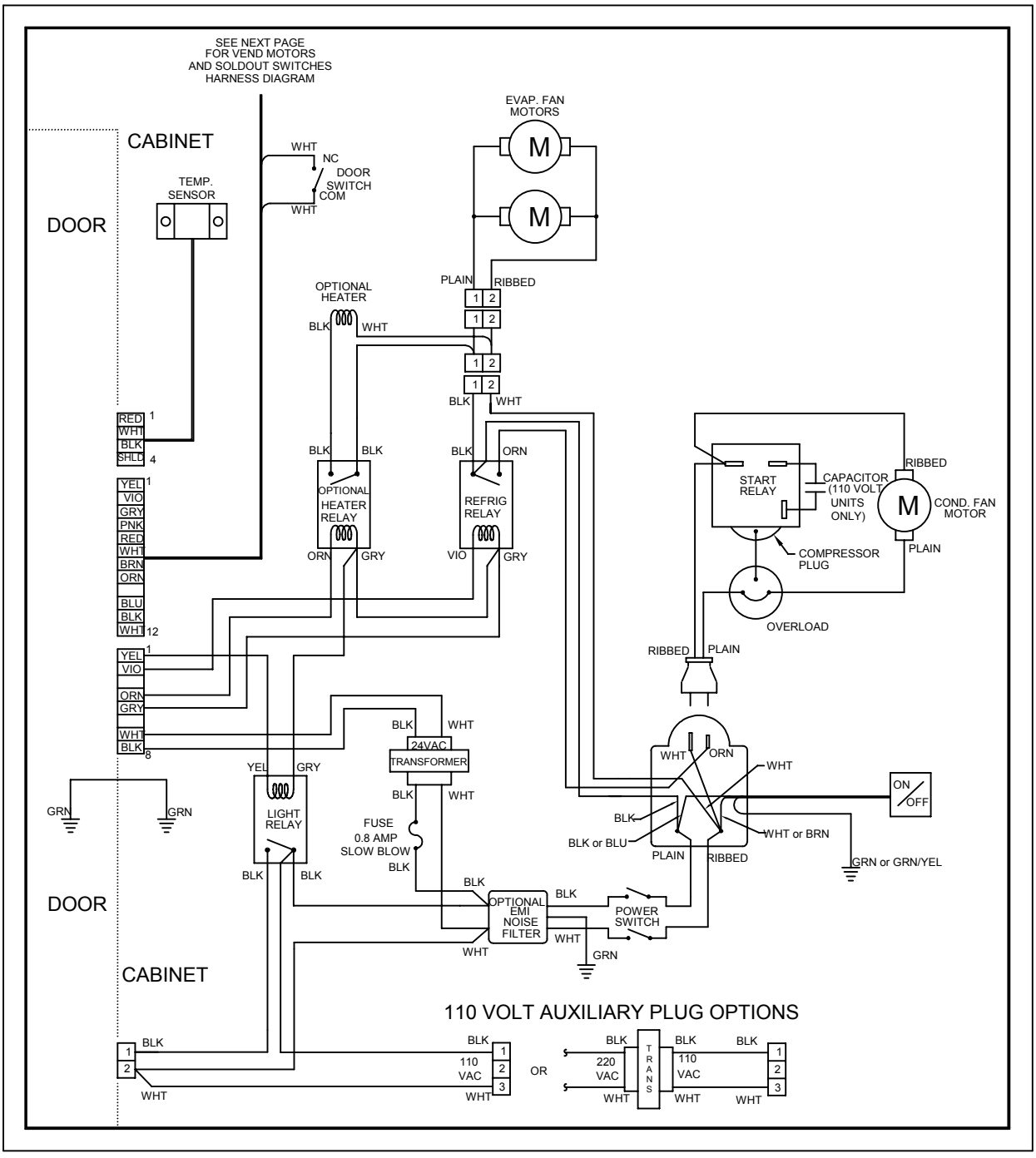
"Y" = Enable discount over-ride.
"N" = Disable discount over-ride.

9.1 WIRING DIAGRAM

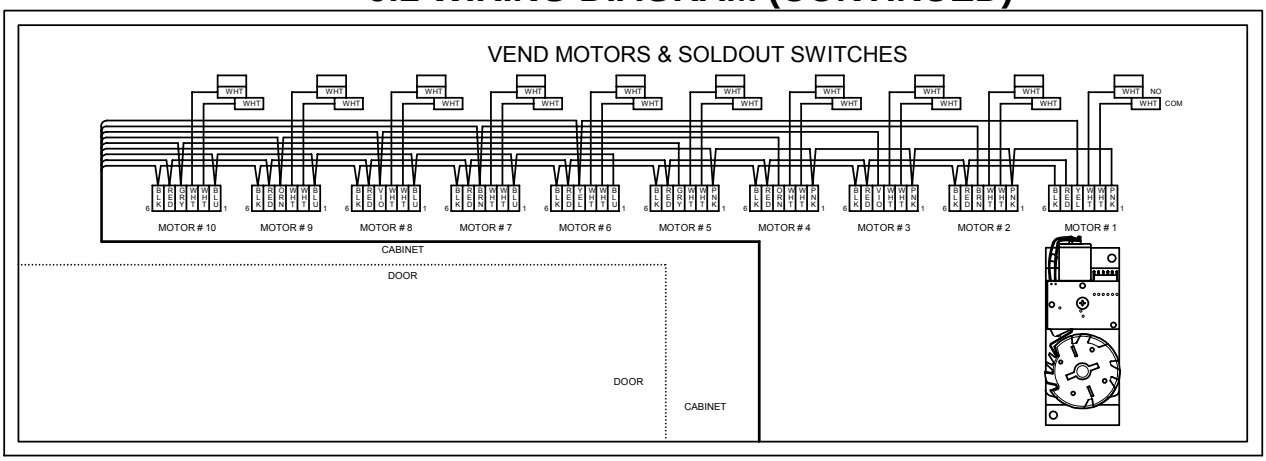


VOLTAGE READINGS	
J1 - Temp Sensor 5 Volts DC Pins 1 and at 2	J8 - MDB Port 34 Volts DC at Pin 1 5 Volts DC at Pin 6
J3 - DEX Port only 0 Volts DC	J10 - Vend Motor Port 15 Volts DC Pins 1 and 12, 24 Volts at Pins 8 and 16, and 13 Volts at Pin 3, 4 and 10
J4 - Display Port 5 Volts DC at Pins 6 and at 3	J11 - Environmental Control Port 24 Volts DC Pins 1,2 and 3
J5 - Option Port 5 Volts DC Pin 1, 2, 3, 4, 7	J13 - Main Power Input 24 Volts AC Pin 3
J6 - Selection Port 5 Volts DC Pins 3, 4, 5, 13, 14	All Power readings were off the J13 Pin 2 ground

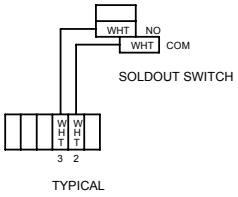
9.1 WIRING DIAGRAM (CONTINUED)



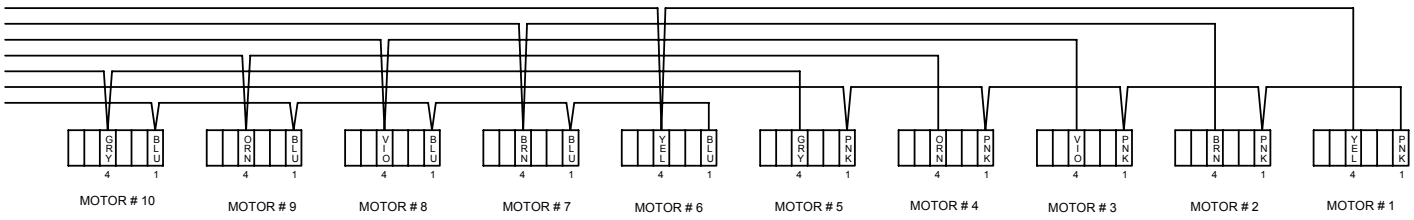
9.1 WIRING DIAGRAM (CONTINUED)



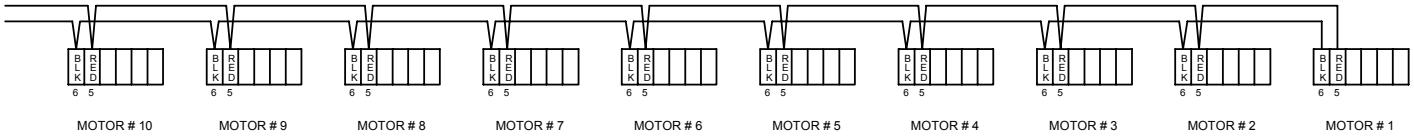
V-MAX MOTOR HARNESS SCHEMATIC BREAKDOWN



PINS 2&3: 0 VDC SOLDOUT SWITCH TO MOTOR BOARD (EXTENSION OF 2X5 MATRIX)

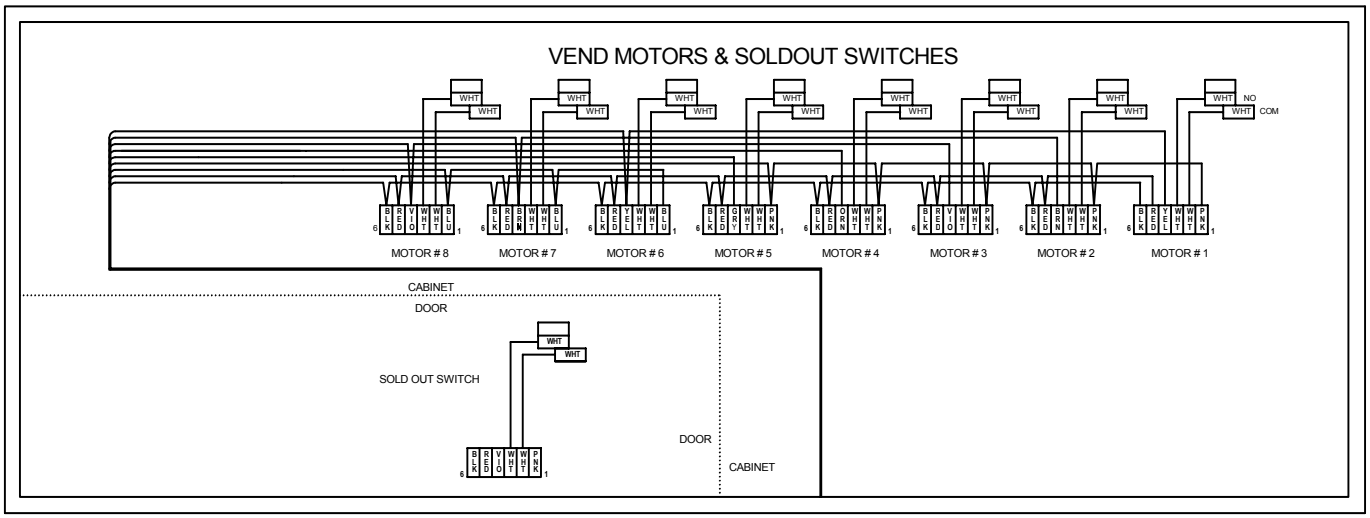


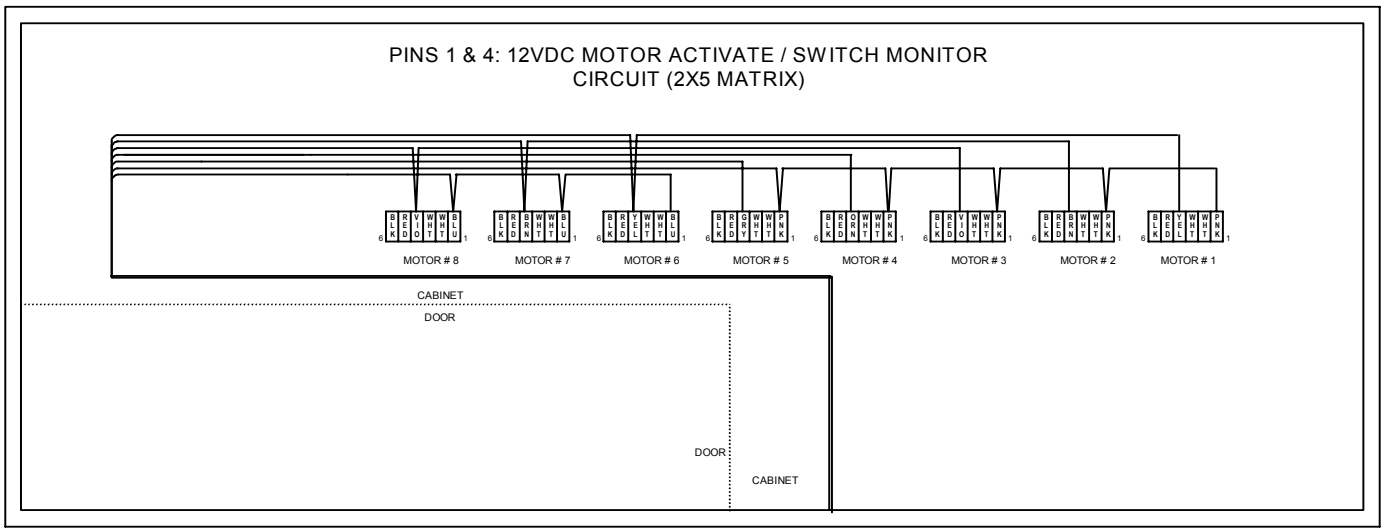
PINS 1&4: 12VDC MOTOR ACTIVATE / SWITCH MONITOR CIRCUIT (2X5 MATRIX)

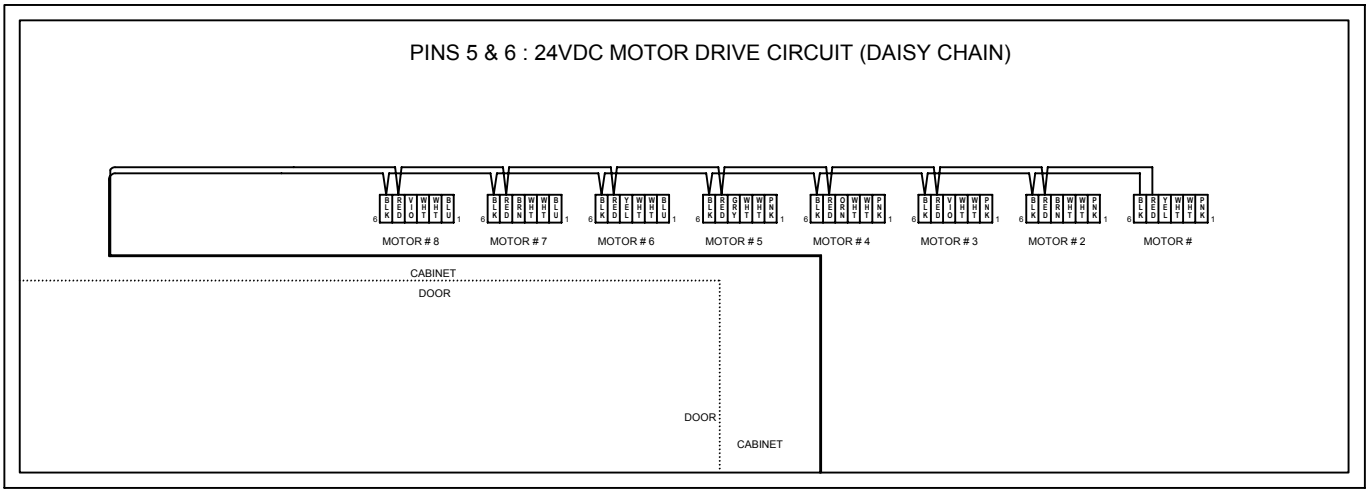


PINS 5&6: 24VDC MOTOR DRIVE CIRCUIT (DAISY CHAIN)

9.1 WIRING DIAGRAM (MINI V-MAX)







NOTES

1. **If the outer door is left open for over an hour, the lights and compressor will become active. In order to over-ride this option, press the door switch one time.**