



12.4 PROGRAMMING

HV3 / CHAMELEON

VEC 12.4 PROGRAMMING OPERATIONS

NOTE: Some units may contain a European font display, in which case the “°” symbol will be replaced by the “β” symbol. Example: 72°F will be 72 β F.

The VEC 12.4 Controller uses a 4-button programming system:

Programming Buttons: # 1 – Escape/Exit
 # 2 – Decrease/Scroll Down
 # 3 – Increase/Scroll Up
 # 4 – Enter and/or Save

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

The Modes are as follows:

Diagnostics
Coin Payout
Tube Fill
Test Mode
Cash Data
Sales Data
Set Price
Set Depth
Configuration
Space to Sales
Set Program Password
Set Language
Set Clock *
Lighting *
Refrigeration **
Sales Block 1 *
Sales Block 2 *
Discount *
Override **
Return

* These modes will only appear when the “Timing Feature” in Configuration is turned On.

** Limited options appear in this mode depending on whether the Timing Feature in Configuration is On/Off.

Diagnostics:

See inner door of vendor or Troubleshooting section for errors and how to clear them.

Coin Payout:

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

1. Press Button 4 to enter into “Coin Payout” mode.
2. Press Button 2 or 3 to scroll to desired denomination.
3. Press Button 4 to dispense displayed denomination.
4. Press Button 1 to exit mode.

Tube Fill:

Allows you to fill coin tubes via the external coin insert. This is the recommended way to fill the coin tubes because the control board is able to keep an accurate count of the coins.

1. Press Button 4 to enter into “Tube Fill” mode.
2. Insert coins into coin insert slot and the controller will “count” the number of coins going into the coin mechanism.

Test Mode:

Allows you to test vend a column, jog a column, test selection switches, display, refrigeration system, lights, and heater.

Vending a Column:

1. At “Test Mode”, press Button 4. Display will read –“Test Mode – Vending”
2. Press Button 4 to enter – the display will read “Column 1”.
3. Press Button 2 or Button 3 to scroll to the desired column.
4. Press Button 4 to vend.
 - a. If motor vends OK, DISPLAY will read “Test Mode - Vending Motor OK”
 - b. If motor does not test OK on one of the following messages will appear:
 - “Test Mode - Vending Fail - Column Jam”
 - “Test Mode - Vending Fail - No Connection”
 - “Test Mode - Vending Fail - High Current”

Jogging a Column:

Allows you to test the column in forward and reverse direction.

1. At “Test Mode” press Button 4.
2. Press Button 2 or 3 to scroll to “Test Mode - Jog.”
3. Press Button 4 and display will read “Column 1.”
4. Press Button 2 or 3 to scroll to desired column.
5. Press Button 4 to enter into column and display will read “Column X Forward” with X being the desired column.
6. Press Button 2 or 3 to scroll between “Forward” or “Reverse.”
7. Press Button 4 to move/jog the motor in the desired position.
8. Press Button 1 to exit this mode.

Test Mode Display:

Allows you to verify that all of the characters on the display illuminate.

1. At “Test Mode” press Button 4.
2. Press Button 2 or 3 to scroll until display reads “Test Mode - Display.”
3. Press Button 4.
4. All of the characters on the display should illuminate.
5. Press Button 4 to exit.

Selection Switch Testing:

Allows you to test the selection switches.

1. At “Test Mode” press Button 4.
2. Press Button 2 or 3 to scroll to “Test Mode Switches”.
3. Press Button 4
4. Press desired selection switch to be tested.
5. To exit press Button 1 and hold for 3 seconds.

Test Mode Relays:

Allows you to test the compressor, evaporator fan, lights and heater.

1. When “Test Mode” is displayed press Button 4.
2. Press Button 2 or 3 to scroll until display reads “Test Mode - Relays”
3. Press Button 4.
4. Press Button 2 or 3 to advance through sub-modes.
5. Press Button 4 at “Compressor” prompt to test compressor.
6. Press Button 4 at “Light” prompt to test lighting system.
7. Press Button 4 at “Fan” prompt to test evaporator fan.
8. Press Button 4 at “Heater” prompt to test optional heater.
9. Press Button 1 to exit sub-modes.

Cash Data:

This Mode allows you to retrieve historical information regarding the money accepted by the vendor. To clear the individual selection cash data, you must have the MIS Auto Reset in the “Configuration” mode turned to ON.

1. When “Cash Data” is displayed press Button 4. The non-resettable historical data is displayed.
2. Press Button 2 or 3 to display resettable individual selections.
3. To reset historical data, make sure the MIS Auto Reset is turned ON in the configuration mode.
4. Press Button 1 to exit mode.

Sales Data:

This Mode allows you to retrieve historical information regarding the number of units sold by vendor. To clear the individual selection sales data, you must have the MIS Auto Reset in the “Configuration” mode turned ON.

1. When “Sales Data” is displayed, press Button 4. The non re-settable historical data is displayed.
2. Press Button 2 or 3 to display resettable individual selections.
3. To reset historical data, make sure the MIS Auto Reset is turned ON in the configuration mode.
4. Press Button 1 to exit mode.

Discount Counter:

This mode allows you to view historical sales and cash data in the vendor that have been vended at a discounted price. This mode is populated only if there have been a discounted sales.

1. When “Discount Counter” is displayed, press Button 4 to view total discount vend sales.
2. Press Button 2 or 3 to display discount counter for individual selections.
3. Press Button 1 to exit mode.

Free Counter:

This mode allows you to view historical sales in the vendor at a free vend mode. This mode is visible only if there has been a sales on a free vend mode.

1. When “Free Counter” is displayed, press Button 4 to view total free vend sales.
2. Press Button 2 or 3 to display free counter for individual selections.
3. Press Button 1 to exit mode.

Set Price:

This Mode allows you the option to price each selection to the same vend price, or price each selection button independently.

1. When display reads “Set Price” press Button 4.
2. Press Button 2 or 3 to choose selections or “All.”
3. Press Button 4 to start the current vend price flashing.
4. Press Button 2 or 3 to increase or decrease price.
5. Press Button 4 to save your new programmed price.
6. Press Button 1 to exit mode.

Set Depth:

This Mode allows you to set the depth of each column. In this mode, you have the option of setting the columns for single, double, triple or quadruple depths.

1. When display reads “Set Depth” press Button 4.
2. Press Button 2 or 3 to choose columns or “All.”
3. Press Button 4 to enter into the column and start the depth flashing.
4. Press Button 2 or 3 to scroll through the depth settings (1-4).
5. Press Button 4 to save your new depth setting.
6. Press Button 1 to exit mode.

Configuration:

There are various options that you can turn ON/OFF. Options underlined are factory default.

Multi-Price

ON - All selections can be programmed individually.

OFF - All selections will be set to the same price as Selection 1.

Timing Features*

ON - Gives you access to the “Clock” settings and its associated modes.

OFF - “Clock” settings and its associated modes are hidden.

Door Summary

ON - Sales and cash data are displayed as soon as the outer door is opened or by activating the door switch.

OFF - Sales and cash data are not displayed when the door is opened.

MIS Auto Reset

ON - Resets if the counter is checked and after the door is closed.

OFF - Does not reset.

Consumer Overpay

ON - A dollar bill will be accepted even if the correct change light is on and there is insufficient change in the coin tubes.

OFF - A vend will not be allowed when the correct change light is on and the consumer attempts to use the dollar bill validator.

Save Credit Timer

ON - Credit that is established will be displayed for five minutes unless someone either makes a vend or presses the coin return button - whichever comes first.

OFF - Credit that is established will remain indefinitely unless someone either makes a vend or presses the coin return button.

Force Vend

ON - The consumer will not be able to insert a dollar into the validator, hit the coin return

and receive change without first attempting a vend.

OFF - The consumer can insert a bill into the validator, press the coin return button and immediately receive change.

Multi-Vend:

ON - The consumer may insert enough credit to make multiple vends. The credit will remain on the display until an additional vend is made or the coin return button is pressed.

OFF - The consumer is allowed to make a single vend and the credit (if applicable), will be returned after the completion of the vend.

Deny Escrow

ON - The validator will stack all bills received.

OFF - The validator will not stack the bills, rather it will hold them in escrow until a vend is complete.

SO Indicator

ON - A small symbol will appear in the lower right hand corner of the display when at least one column is sold out or the machine detects an error.

OFF - The symbol will not appear.

Count by Selection/Price

COUNT BY SELECTION - Individual sales and cash data will be reported in unit sales.

COUNT BY PRICE - Individual sales and cash data will be reported by vend price.

MIS Reset W/DEX

ON - MIS data will be reset with a DEX read.

OFF - MIS data will not be reset with a DEX read.

Depth Learning

ON - The control board will “learn” the depth setting after one row of product in the column is vended.

OFF - The control board will not “learn” the depth setting.

Display Scroll:

ON - The display will scroll the messages across the screen.

OFF – The Display will blink the message

Display Temperature:

ON – The refrigeration temperature will be displayed on the screen.

OFF – The temperature will not be displayed.

Space to Sales:

Allows you to program which column will vend when you choose a desired selection button. There are 6 preset configurations (See inner door label for preset options). You also have the option of doing a custom space to sales. To change current setting:

1. Press Button 4 when “Space to Sales” is displayed.
2. Press Button 4 to change current setting.
3. Press Button 2 or 3 to scroll through available settings.
4. Press Button 4 to save setting.
5. Press Button 1 to exit mode.

To customize your space to sales:

1. Press Button 4 when “Space to Sales” is displayed.
2. Press Button 2 or 3 to scroll until display reads “Space to Sales - Custom.”
3. Press Button 4. Display reads “Clear Settings?”
4. Press Button 4 to clear. Display reads “Custom Sel X - None.”
5. Press Button 4 to change a selection assignment.
6. Press Button 4 to assign (flashing) or unassigned (not flashing or steady) columns.
7. Press Button 1. Display reads “Save?”
8. Press Button 4 to save.
9. Press Button 1 to exit the mode.

Set Program Password:

Allows the operator to set a password to access Sales Data when the door is closed. Please note that this function will not work if the password is set at 0000.

1. Press Button 4 at “Closed Door Password” mode.
2. The current password will be displayed.
3. Press Button 2 or 3 while each digit is flashing to change current password.
4. Press Button 4 to save and advance to next digit.
5. Press Button 4 after the 4th digit to exit mode.

Set Language:

This Mode allows you to program different languages on the controller. The current languages available are English, Spanish, and French.

1. Press Button 4 at “Set Language” mode. The current language will be displayed.
2. To change current language, press Button 4 to start language flashing.
3. Press Button 2 or 3 to choose a language.
4. Press Button 4 to save the language change.
5. Press Button 1 to exit mode.

Set Clock:

If the “Timing Features” in the “Configuration” mode are turned ON, you will have access to this mode. This mode allows you to set the current month, day, year, hour and minute.

To set the clock:

1. Press Button 4 at the “Set Clock” prompt. You will be able to scroll through the following options by pressing Button 2 or 3.
 - Enable ON/OFF - This will turn the clock timer on or off.
 - MM/DD/YYYY HH:MM - This is the current time and date.
 - Daylight Savings
2. Press Button 4 to change current setting. The current setting will begin to flash.
3. Press Button 2 or 3 to change current setting.
4. Press Button 4 to save current setting.

Lighting:

If the “Timing Features” in the “Configuration” mode are turned ON, you will have access to this mode. This mode allows you to turn the lights on/off with the internal timer.

1. Press Button 4 when the display reads “Start Time 1” or “Start Time 2.”
2. Press Button 4 at “Start Time 1” or “Start Time 2.”
3. Press Button 4 at “Start Day 1” or “Start Day 2.”
4. Scroll through the days of the week or “all” with Button 2 or 3.
5. Press Button 4 to change current setting.
6. Change setting by pressing Button 2 or 3.
7. Press Button 4 to save changes.
8. Press Button 2 or 3 at “Start 100.00” or “Start 200.00”
9. Press Button 4 to change time.
10. Press Button 2 or 3 to set time.
11. Press Button 4 to save.
12. Press Button 1 to exit mode.
13. Repeat process with “Stop Time 1” or “Stop Time 2.”

Refrigeration:

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

Set Point Temperature

Sensor Reading

Degree Setting

Fan Energy Mode

Periodic Defrost Mode

To change the set point temperature:

1. Press Button 4 when the display reads “Refrigeration.”
2. The display will read “Set Point XX” with the current setting displayed.
3. To change the setting press Button 4 and the current set point temperature will begin to flash.
4. Press Button 2 or 3 to increase or decrease the set point.

5. Press Button 4 to save changes.
6. Press Button 1 to exist and return “Refrigeration” on display.

To display the temperature:

1. Press Button 4 when the display reads “Refrigeration.”
2. Press Button 2 or 3 until the display reads “Sensor Reading.”
3. Press Button 4 and the current temperature will be shown in Fahrenheit or in Celsius.
4. Press Button 1 to exit and return the display to “Refrigeration.”

To change the degree scale:

1. Press Button 4 when the display reads “Refrigeration.”
2. Press Button 2 or 3 until the display reads “Degree Setting.”
3. The display will show the current degree scale (Celsius or Fahrenheit).
4. Press Button 4 and the degree scale will begin to flash.
5. Press Button 2 or 3 to choose setting.
6. Press Button 4 to save setting.
7. Press Button 1 to exit and return the display to “Refrigeration.”

To change the Fan Energy Savings mode:

1. Press Button 4 when the display reads “Refrigeration.”
2. Press Button 2 or 3 until the display reads “Fan.”
3. The display will read “Fan X” with the current setting displayed.
4. To change the setting press Button 4 and the current Fan mode will begin to flash.
5. Press Button 2 or 3 to increase or decrease the Fan mode.
6. Press Button 4 to save changes.
7. Press Button 1 to exit and return the display to “Refrigeration.”

The refrigeration system shall have three types of fan mode operation (energy conservation modes) – **This requires fan relay needs to be installed.**

Fan Mode 0 (Disable)

The refrigeration system shall have a fan mode of operation in which the evaporator fan will be turned on/off based on the activation of compressor. When the fan mode 0 is activated through the Service Modes, the controller shall always turn on evaporator fan.

Fan Mode 1

The refrigeration system shall have a fan mode of operation in which the evaporator fan will be turned on/off based on the activation of compressor. When the fan mode 1 is activated through the Service Modes, the controller shall turn off evaporator fan after the delay for 5 minutes after the compressor is turned off. And when the compressor is turned on, the controller shall turn on evaporator fan at same time.

The fan mode 1 does not function for 24 hours from the pull-down mode start.

Fan Mode 2

The refrigeration system shall have an fan mode of operation in which the evaporator fan will be turned on/off based on the number of vended product per unit hour . When the fan mode 2 is activated through the Service Modes the controller shall turn on/off the compressor and evaporator fans, based on the following method.

When the number of vended product per one hour is equal or less than five, the controller should enter the fan mode 1. This causes the controller to work as fan mode 1 without any setting change.

When the number of vended product per one hour is more than five, the controller should enter the normal operation mode.

The fan mode 2 does not function for 24 hours from the pull-down mode start.

To change the Periodic Defrost Mode:

1. Press Button 4 when the display reads “Refrigeration.”
2. Press Button 2 or 3 until the display reads “Periodic Defrost.”
3. The display will show it on or off.
4. Press Button 4 and the setting value will flash.
5. Press Button 2 or 3 to choose your setting.
6. Press Button 4 to save setting.
7. Press Button 1 to exit and return the display to “Refrigeration.”

If the “Timing Features” in the Configuration mode are turned ON, you will have additional access to the following modes:

Enable

Start Time 1 or Start Time 2

Start Day 1 or Start Day 2

Start 100.00 or Start 200.00

Stop Time 1 or Stop Time 2

Stop Day 1 or Stop Day 2

Stop 100.00 or Stop 200.00

Sales Block 1 and 2:

Allows you to program the machine to turn off and on at regular intervals.

To program the blocking feature, you must enter the following information:

Start Time- When the machine turns off

Start Days

Stop Time- When the machine turns back on

Stop Days

Selections

Discount:

Allows you to program the machine to discount beverages at regular intervals.

To program the “Discount” feature, you must enter the following information:

Start Time- When the discounting begins

Start Day

Stop Time- When the discounting ends

Stop Day

Selections

Amount- Amount subtracted/discounted from original vend price

Override:

Allows various items to be enabled or disabled depending on the status of an attached override switch. Additional override switch is required – kit # 1124429

Each of the following items can be enabled by setting an ON or disabled by setting an OFF.

“*Override Free Vend*”

“*Override Sales Blocking*”

“*Override Discount*”

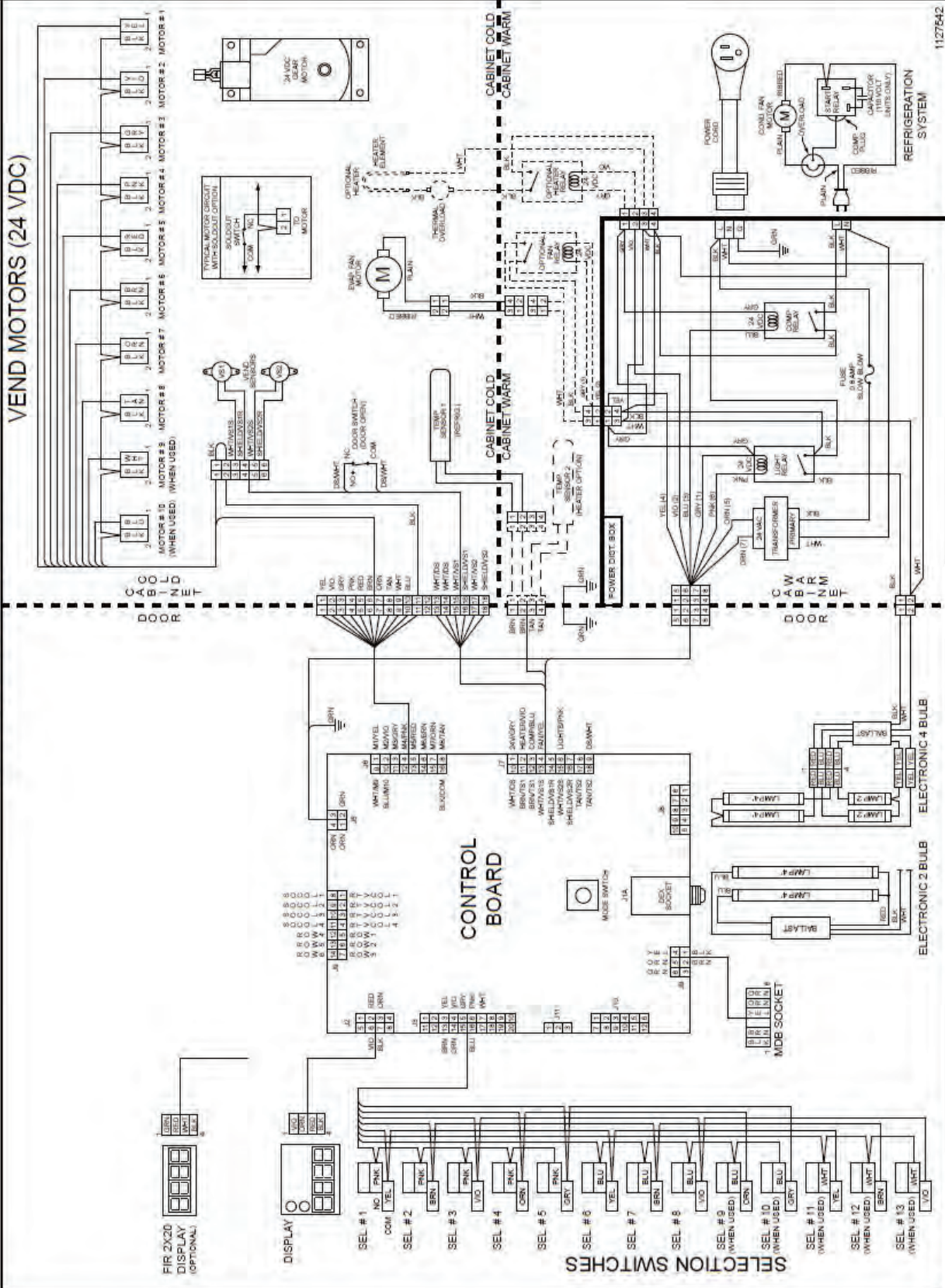
“*Override Light Timing*”

“*Override Refrigeration*”

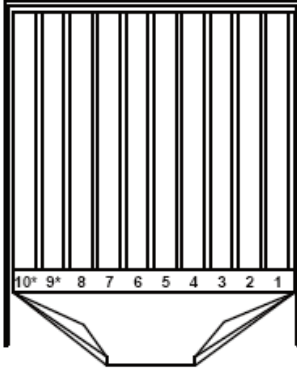
Return:

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

V21 WIRING DIAGRAM



PRE - PROGRAMMED SPACE - TO - SALES

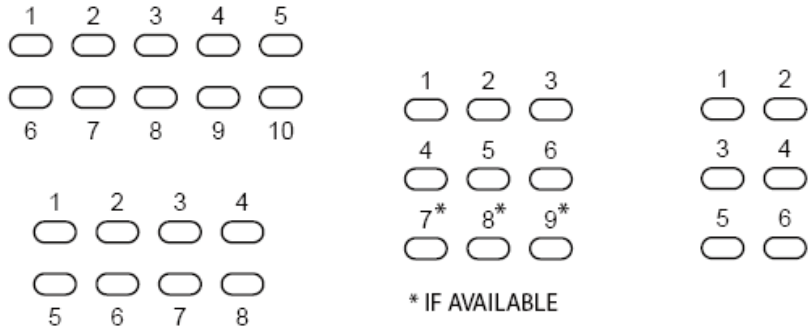


SEL #	COLUMNS									
1	1	1,2	1,2	1,2,3	1,2,3	1,2	1,2	1,2,3	ALL	NONE
2	2	3	3,4	4	1,2,3	1,2	1,2	1,2,3	ALL	NONE
3	3	4	5	5	4	3,4	3	1,2,3	ALL	NONE
4	4	5	6	6	5	5	4	4	ALL	NONE
5	5	6	7	7	6	6	5	5	ALL	NONE
6	6	7	8	8	7	7	6	6	ALL	NONE
7*	7	8	9	9	8	8	7	7	ALL	NONE
8*	8	9	10	10	9	9	8	8	ALL	NONE
9*	9	10	~	~	10	10	9	9	ALL	NONE
10*	10	~	~	~	~	~	10	10	ALL	NONE
SSSS#	10	9	8	7	6	5	4	3	2	1

↑ Factory setting for 8 select 10 column or 6 select 8 column vendor
 ↑ Factory setting for 9 select 10 column or 6 select 7 column vendor
 ↑ Factory setting for 10 select vendor

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

* IF AVAILABLE



* IF AVAILABLE

BUTTON CONFIGURATIONS

1188767