## THE VENDO COMPANY

## VEC 5.1-1061-1067 Programming Guide DOOR OPEN CONTROL SEQUENCE

1. Diagnostic Error Codes
2. Sales Information
3. Alternate Test Vend
4. Control Operation \& Programming

| PROGRAMMI NG CHECKLI ST |
| :--- |
| NOTI CE: <br> without |
| Do not enter the programming modes of this control <br> The leading cause of vendor malfunction is a control board that is not <br> properly programmed. When installing a new board or when trying to trouble <br> shoot a vendor that is not operating as expected, follow these steps in the <br> order listed. |

1. Space to Sales (SSS). Confirm each selection has the correct column(s) assigned. Confirm each column is assigned to at least one selection. As a starting point, assign columns to selections using the Quick Set (SSSS) Mode and pressing the last selection button (Selection 9 or 10 depending on model).
2. Options (OPTS) \& (OPT 2). Check the settings for each of the different options. As a starting point, set all options to factory settings.
3. Price Setting (COST). Set each selection to desired price from . 00 (Free Vend) to \$99.95
4. Timer Control (TCTL). If an optional timing device or key switch is installed, check that the selections are set as desired. (Be sure the optional timing device is operating properly.)
5. When exiting "Service Modes" (i.e. actuating the door switch) you must wait 30 seconds before the vendor will accept coins or bills.

For detailed instructions, refer to the Service and Operation Manual or call the Technical Services Department of The Vendo Company at 800-344-7216 or 559-439-1770.

| ERROR CODES |  |  |
| :---: | :--- | :--- |
| ERROR CODE | ACTI ON | TO REMOVE ERROR CODE |
| No Reported Errors |  |  | No action needed $\quad$| No Error Code to remove. Control board will |
| :--- |
| automatically go to total historical vends. |


| "ER-8" |  |  |
| :---: | :--- | :--- |
| STS Assignment Error |  |  |
| (SSS) |  |  |$\quad$| Press Mode Switch 1 time to identify: |
| :--- |
| "SS"" = Unassigned Switch(es) |
| "UA " = Unassigned Column (5.1 Only) |
| "DA-" = Doubly Assigned Column (5.1 |
| Only) |$\quad$| Automatically cleared when assignment error |
| :--- |
| is corrected through SSS program mode. |


| SALES I NFORMATI ON |  |  |
| :---: | :---: | :---: |
| DESI RED DISPLAY | ACTI ON FOR DESIRED DI SPLAY | NEXT CONTROL ACTI ON |
| TOTAL HI STORICAL VENDS "CANS" <br> (Non-Resetable) | If No Errors: <br> No action is required to display <br> total <br> vends <br> If Error Codes are not cleared: <br> Press selection switches 1 and 2 at the same time | After 15 seconds, control will automatically go to alternate test vend operation. |
| VENDS BY SELECTI ON (Since Last Reset) | Pressing any selection button will display unit sales for that selection since the reset button was last pressed. | After 15 seconds, control will automatically go to alternate test vend operation. |
| TOTAL HISTORICAL CASH "CASH" <br> (Non-Resetable) | From Total Vends: <br> No action is required to display total cash <br> From vends by selection: <br> Press selection switches 1 and 2 <br> at <br> the same time | After 15 seconds, control will automatically go to alternate test vend operation. |

## NOTE：OPTIONAL DOOR CLOSED DATA RETRIEVAL

If desired，＂Total Historical Vends＂and＂Vends By Selection＂may also be retrieved with the door closed after entering passcode．（Refer to＂OPTS＂，selection 5）．After passcode，vends by selection may be reset by pressing selection switches 1 And 4 at the same time and holding for 3 seconds．

| ALTERNATE TEST VEND |  |  |
| :---: | :--- | :--- |
| DISPLAY | HOW TO DI SPLAY | ACTI ON |
| ＂．00＂OR <br> ＂（VEND PRICE）＂ <br> （With inner and outer <br> doors separated） | Control board automatically reverts to <br> this display from＂Sales Information＂Or <br> ＂Control Operation \＆Programming＂ <br> after 15 seconds of inactivity． | All vend and cash activities effect special test <br> meters（counters）only and will not change <br> normal（Door Closed）vend or cash meters． |


| CONTROL OPERATI ON \＆PROGRAMMI NG SUMMARY |  |  |
| :---: | :---: | :---: |
| MODE | OPERATION | RESULT／RESPONSE |
| CHANGE PAY OUT | Press Selection Switch 1 | ． 05 對 Pay Out |
| ＂CPO＂ | Press Selection Switch 2 | ．10島 Pay Out |
| （Press Mode Switch | Press Selection Switch 3 | ．25鏗 Pay Out |
| One Time） | Press Selection Switch 4 | \＄1．00 Coin Pay Out（If Coin Changer is Available） |
| COLUMN TEST VEND | Press Selection Switch 1 | Increases Displayed Column Number |
| ＂TEST＂ | Press Selection Switch 2 | Decreases Displayed Column Number |
| （Press Mode Switch Two Times） | Press Selection Switch 3 | Vends Displayed Column Number |
| PRICE SETTING | Press Any Selection Switch | Selection＇s Current Price Is Displayed |
| "COST" | Press And Hold Same Selection | Selection＇s Price Increases |
| （Press Mode Switch Three Times） | Press And Hold Same Selection | Selection＇s Price Decreases |

## CONTROL OPERATI ON \& PROGRAMMI NG SUMMARY

| MODE | OPERATI ON | RESULT/ RESPONSE |
| :---: | :---: | :---: |
| OPTI ONS "OPTS" <br> (Press Mode Switch Four Times) | Bill Handling <br> Press Selection Switch \#1 (Continue to press \#1 until desired setting is reached.) | Bill Handling <br> 1 = Force Vend if bill is accepted. Scavenger lever will return change. <br> 2 = Change Machine <br> $3=$ Bill accepted is held in escrow. Scavenger lever will return bill. |
|  | Correct Change Acceptance <br> Press Selection Switch \#2 (Continue to press \#2 until desired setting is reached.) | Correct Change Vending <br> 1 = Only correct change accepted for vend <br> $2=$ Correct change or greater accepted for vend <br> 3 = Same as \#1 Special Application Only <br> 4 = Same as \#2 Special Application Only |
|  | Zero I ndicator <br> Press selection switch \#3 (Continue to press \#3 until desired setting is reached.) | "o" in Display to Indicate Sold Out or Jammed Column(s) $\begin{aligned} & 1=\mathrm{On} \\ & 2=\mathrm{Off} \end{aligned}$ |
|  | Fast Price Set <br> Press selection switch \#4 (Continue to press \#4 until desired setting is reached.) | ```Fast Price Set 1 = Each selection's price set individually 2 = All selections same price as selection 1's price``` |
|  | Door Closed Data <br> Press selection switch \#5 (Continue to press \#5 until desired setting is reached.) | Door Closed Sales Data Retrieval $\begin{aligned} & 1=\text { Off } \\ & 2=\text { On (After } 5 \text { seconds, displays passcode) } \end{aligned}$ |
|  | Control Board I dentification Press selection switch \#6 | Displays control board ID and software revision level (Example: "1 5.1 1061") |



| CONTROL OPERATI ON \& PROGRAMMI NG SUMMARY |  |  |  |
| :---: | :---: | :---: | :---: |
| MODE | OPERATI ON | RESULT/ RESPONSE |  |
| SPACE TO SALES | TO DI SPLAY CURRENT COLUMN TO SELECTI ON CONNECTI ONS: |  |  |
| "SSS" | Press and release any selection | Displays current column(s) connected to that selection |  |
| (Press Mode Switch Six Times) | TO CONNECT AND DI SCONNECT COLUMNS FOR A SELECTION: |  |  |
|  | Press and release the selection to be changed. Then press and hold same selection again for 3 seconds | Display shows "CO 1" (Column 1). Displayed column number may or may not flash. <br> Flashing = Column is connected to the selection <br> Continuous $=$ Column is not connected to the selection |  |
|  |  | Selection Buttons 1,2, 3 and 4 are now used as programming buttons to connect and disconnect columns. |  |
|  |  | Press (Selection) Switch 1 | Increases displayed column number |
|  |  | Press (Selection) Switch 2 | Decreases displayed column number |
|  |  | Press (Selection) Switch 3 | Changes connection status of displayed column number |
|  |  | Press (Selection) Switch 4 | Records and ends connection changes for the selection. Display returns to SSS beginning. |
|  | Buttons 1,2,3 and 4 are used as selection switches again. <br> After connection changes are made and door is closed, the new settings will be displayed. |  |  |


| CONTROL OPERATI ON \& PROGRAMMI NG SUMMARY |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MODE | PREPROGRAMED SPACE-TO SALES CONFI GURATI ONS |  |  |  |  |  |  |  |  |  |  |
| QUICK SET SSS "SSSS" <br> (Press Mode Switch Six Times to Display SSS. Then Press Reset Button Twice.) | SETTI NG | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|  | SEL \# | COL | COL | COL | COL | COL | COL | COL | COL | COL | COL |
|  | 1 | 1 | 1,2 | 1 | 1,2 | 1 | 1 | --- | --- | 1 | 1 |
|  | 2 | 2 | 3 | 2 | 3 | 2 | 2 | --- | --- | --- | 2 |
|  | 3 | 3 | 4 | 3 | 4 | 3 | 3 | --- | --- | --- | 3 |
|  | 4 | 4 | 5 | 4 | 5 | 4 | 4 | --- | --- | --- | 4 |
|  | 5 | 5 | 6 | 5 | 6 | 5 | 5 | --- | --- | --- | 5 |
|  | 6 | 6 | 7 | 6 | 7 | 6 | --- | --- | --- | --- | 6 |
|  | 7 | 7 | 8 | 7 | 8 | --- | --- | --- | --- | --- | 7 |
|  | 8 | 8 | 9 | 8 | --- | --- | --- | --- | --- | --- | --- |
|  | 9 | 9 | 10 | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 10 | 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| After "SSSS" is displayed, selection switches 1-10 are used to obtain desired settings. The most commonly used setting can be obtained by using the last selection switch. |  |  |  |  |  |  |  |  |  |  |  |
| TIMER CONTROL "TCTL" | NOTE: This mode has no meaning or effect for vendors as produced. This mode is effective only when an optional timer or key switch device is installed. |  |  |  |  |  |  |  |  |  |  |
| (Press Mode Switch Seven Times) | Press any selection switch |  |  |  | Displays Selection's Current Setting <br> Yes = Always vends regardless of timer <br> No $=$ Vending controlled by timer operation |  |  |  |  |  |  |
|  | Press Same Selection |  |  |  | Changes Selection's Setting <br> (Factory Setting = All Selections Set to No |  |  |  |  |  |  |

UNIVENDOR-2 PRODUCT SET-UP GUIDE

1. PRODUCT

12 OZ. CANS - $2.60 \times 4.84$ Long
2. PRODUCT CAPACITY

48 PER COLUMN - 72", 57 PER COLUMN - 79"
3. SET UP GUIDE UNIVENDOR-2

| Product | CAM | BACK | GAGE | Sold out | SIDE | GAGE BAR CLIP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | POSITION | SPACER | BAR | Lever | SPACER | Part No. | Position |
| 12 oz | 3 | 8 | 2 | 389242 | 1060686 | 1066104 | $1 \& 2$ |
| CANS |  |  |  | SHORT |  | White |  |

Note: To properly vend 12 oz. Cans. The Univendor-2 must have the columns setup correctly.
4. GAGE BAR CLIP SET UP.

5. SET UP GUIDE.

6. SOLD-OUT LEVER TO BE SHORT STYLE WITH FRONT SPACER.

SPRING TO BE LOCATED ON THE RIGHT SIDE (LOW PRESSURE SETTING).

1. PRODUCT

20 OZ. STRAIGHT WALL PET BOTTLE - 2.90 Top x 8.00 Long
2. PRODUCT CAPACITY

28 PER COLUMN - 72", 32 PER COLUMN - 79"
3. SET UP GUIDE UNIVENDOR-2

| Product | CAM | BACK | GAGE | Sold out | SIDE | GAGE BAR CLIP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | POSITION | SPACER | BAR | Lever | SHIM | Part No. | Position |
| 20 oz | 2 | 11 | 1 | 389242 | NONE | 1066112 | 1 |
| Straight Wall |  |  |  |  |  |  |  |

Note: To properly vend 20 oz. Straight Wall. The Univendor-2 must have the columns setup correctly.

## 4. GAGE BAR CLIP SET UP.


5. SET UP GUIDE.

6. SOLD-OUT LEVER TO BE SHORT STYLE WITH FRONT SPACER.

SPRING TO BE LOCATED ON THE RIGHT SIDE (LOW PRESSURE SETTING).

1. PRODUCT
$473 \mathrm{ML}, 16 \mathrm{OZ}$. ARROWHEAD - WATER PET BOTTLE - $2.58 \times 7.50$ Long
2. PRODUCT CAPACITY

34 PER COLUMN - 72", 44 PER COLUMN - 79"
3. SET UP GUIDE UNIVENDOR-2

| Product | CAM <br> POSITION | BACK <br> SPACER | GAGE <br> BAR | Sold out <br> Lever | SIDE | GAGE BAR CLIP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16 OZ | 2 | 9 | 2 | 389242 | 1073589 | Part No. | Position |
| Arrowhead |  |  |  | SHORT |  |  | 1 |

Note: To properly vend Arrowhead 16oz. The Univendor-2 must have the columns setup correctly.
4. GAGE BAR CLIP SET UP.

5. SET UP GUIDE.

6. SOLD-OUT LEVER TO BE SHORT STYLE WITH NEW FRONT SPACER \#1077457. SPRING TO BE LOCATED ON THE RIGHT SIDE (LOW PRESSURE SETTING).
7. FOR OTHER PRODUCT SET UP GUIDES CONTACT VENDO COMPANY. TEL: (209) 439-1770 FAX: (209) 439-2083.

