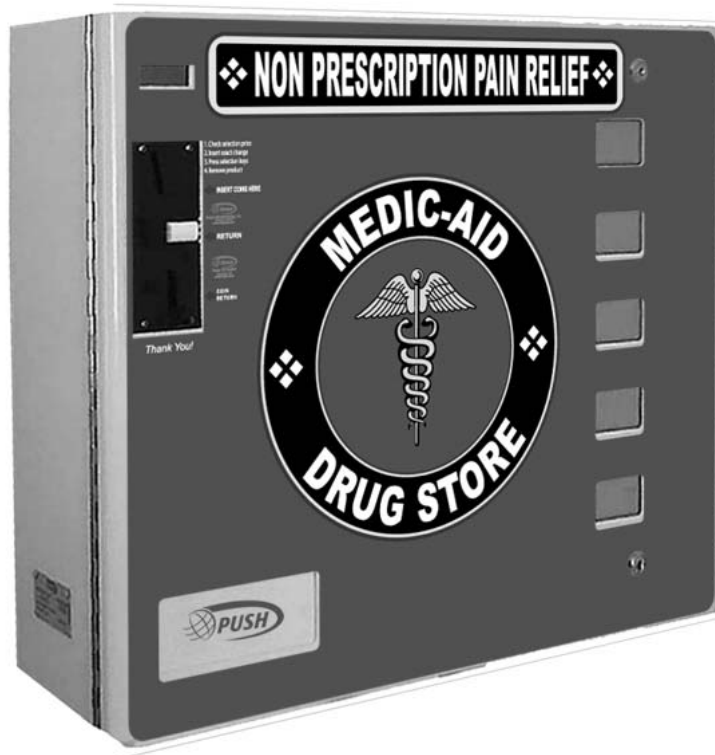




**SL5000**



# **Operator's Manual**

## **INTRODUCTION**

Congratulations on the purchase of your new SL5000. This SL5000 has been designed to give you many years of dependable service. It requires little maintenance and is easy to set up and operate.

## **READ THIS MANUAL COMPLETELY**

Your SL5000 is designed to operate simply and reliably, but to take full advantage of your vendor, please read this owner's manual thoroughly. It contains important information regarding installation and operations, as well as a brief trouble-shooting guide.

## **EQUIPMENT INSPECTION**

After you have received your machine and have it out of the box, place it on a secure surface for further inspection. **Note:** Any damages that may have occurred during shipping must be reported to the delivery carrier immediately. Reporting damages and the seeking of restitution is the responsibility of the equipment owner. The factory is willing to assist you in this process in any way possible. Feel free to contact our Customer Care Department with questions you may have on this process. It is important that you keep the original packaging for your vending machine at least through the warranty period. If your machine needs to be returned for repair, you may have to purchase this packaging if it is not retained.

Once you have your vendor located, we suggest that you keep this manual for future reference, or you can view this manual online at [www.seagamfg.com](http://www.seagamfg.com). Should any problems occur, refer to the section entitled "COMMON QUESTIONS AND ANSWERS". It is designed to help you quickly identify a problem and correct it.

## **MANUFACTURER'S WARRANTY**

### **WHAT IS COVERED:**

Manufacturer warrants TO THE ORIGINAL PURCHASER ONLY that each item of equipment manufactured is free from defects in material and workmanship under normal use and service. Manufacturer's obligation under warranty shall be limited to repair or replacement, at our plant, of any parts of the equipment, which shall, within one year of the date of shipment to the original purchase, be demonstrated to be defective. The original purchaser may obtain repair or replacement of the equipment under warranty by returning the defective item or entire vendor to the Manufacturer, freight prepaid.

### **WHAT IS NOT COVERED:**

Manufacturer's warranty obligations DO NOT EXTEND TO OR INCLUDE installation expenses, vandalism, or difficulties resulting from failure to operate equipment in accordance with Manufacturer's instructions under competent supervision and difficulties due to changes in vended products, which are beyond the control of manufacturer.

**SPECIAL NOTE:** Manufacturer is not responsible for any loss of income due to a vending machine being out of service due to a warrantable item.

This warranty is in lieu of all the other warranties, expressed or implied, including the warranty of merchantability and fitness or use, and of all other obligations or liabilities on Manufacturer's part. Manufacturer neither assumes, nor authorizes any other person to assume for it, any other liability in connection with the sale of equipment manufactured by itself. This warranty shall not apply to equipment manufactured or any part thereof which is subject to accident, negligence, alteration, abuse, misuse, or damage in shipment. The term "original purchaser", as used in this warranty, shall be deemed to mean that person for whom the equipment is originally installed.

Manufacturer is not liable for any incidental, consequential or other damages of any kind whatsoever, directly or indirectly, arising from the use of the equipment whether based upon theories of contract negligence or tort.



For Service and Customer Care:  
8:30 a.m. - 4:00 p.m. CST. Mon thru Fri  
815.297.9500 ext 160  
815.297.1758 Fax  
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## IMPORTANT NOTICES

Your vendor (s) are intended for indoor use only  
Your vendor (s) must be set on a level, well-supported location.  
Always unload vendor before transporting it.  
Do not load your vendor with disfigured or damaged product.

### Section 1      **Brief Description of your SL5000**

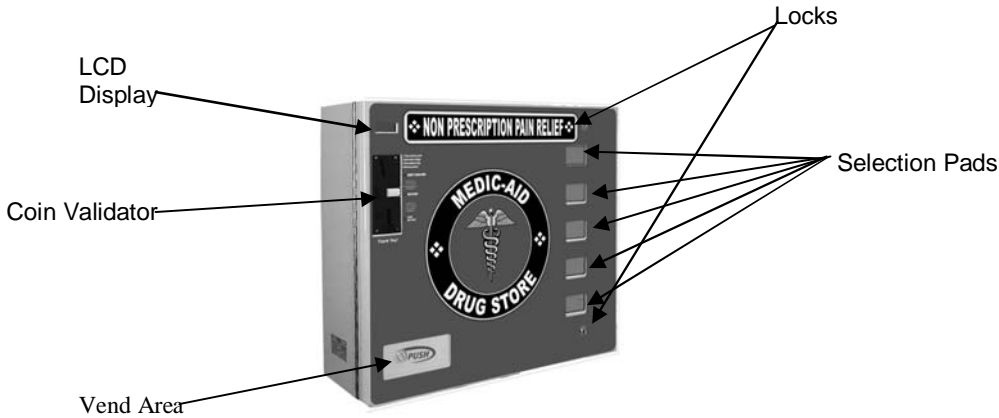
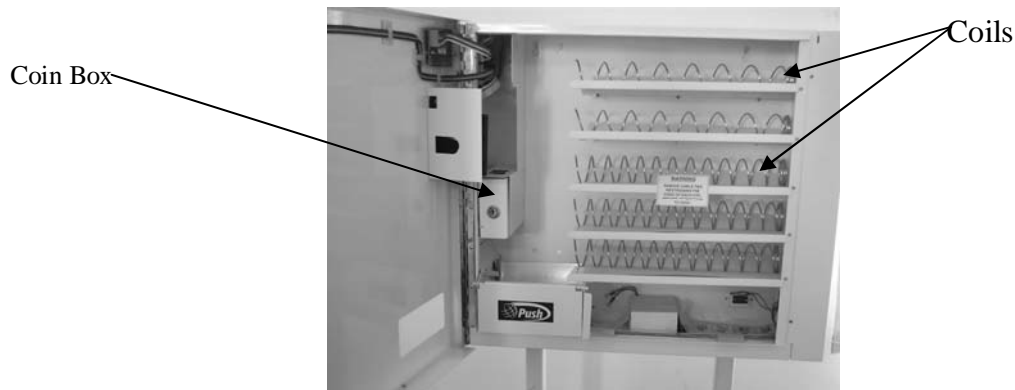


Fig.1



### HOW TO LOCK & UNLOCK THE DOOR OF VENDOR

Your SL5000 has 2 locks. To open the door, unlock the top and bottom locks by turning the keys clockwise.

### ELECTRICAL CONNECTION

The SL5000 may be driven by a 12-volt battery or via a permanent 12 VDC supply obtained through an AC/DC adapter. The SL5000 incorporates a Multi Functional Controller Board with a range of features such as 5 individual selections and multiple coin handling in a compact size.

### PRODUCT SELECTION PRICING AND LABELS

Product selection is made using the 5 selection pads (see photo above). The prices can be set by entering the Service Mode.

### DELIVERY SYSTEM

The delivery system of your SL5000 incorporates a Selection Pad, an LCD Display and helix coils. The customer inserts money into the coin slot and enters their selection on the Selection Pad; the selected Driver Motor turns the helix coil and vends the product.

## KEYPAD AND LCD DISPLAY

The Selection Pad has touch sensitive operation. Light pressure will be necessary to activate the appropriate motor/helix coil relating to any particular shelf. The Selection Pad is used by the customer to make their selection, and by the operator to set and test the many functions of the vendor (Fig.1).

The LCD Display shows the customer the amount of money entered into the vendor and the cost of their selection, it shows the operator the Service Mode function for setting and testing the various functions of the vendor.

## BATTERY MODE OF OPERATION

During Battery mode, the machine operates in 'Sleep Mode'. This means that when the machine is not in operation (between vend), it will automatically shut down in order to save battery power, thus prolonging the life of the battery. During 'Sleep Mode' the machine display turns off its left hand digit (unless there is a value greater than 0 present) and the machine monitors to see if a coin has been inserted or a button pressed in order to 'wake-up'. The following conditions will 'wake-up' the machine from 'Sleep Mode'.

1. Coin Insertion
2. Selection Button Press
3. Black (Reset) Button Press
4. Red Service Button Press

On Wake-up the machine will only go back to 'Sleep Mode ' under the following conditions:

1. Directly after a vend has been made (Unless there is excess credit present in which case the machine will wait a further 60 seconds before going to sleep).
2. After 30 seconds after a selection has been pressed and the machine contains product.
3. After 20 seconds after a selection has been pressed and the machine does not contain a product.
4. After 5 seconds if an invalidated coin has been inserted and the machine contains product.
5. After 60 seconds after a coin has been inserted and validated.
6. After 5 seconds if the machine is completely empty.
7. After 5 seconds after if the machine is out of order.
8. After 5 seconds after the black (reset) button is pressed and the machine is empty.
9. After 20 seconds after the black (reset) button is pressed and the machine contains product.
10. After 8 seconds after leaving service mode

These values are extended each time a selection is pressed or coin is inserted to a maximum of 60 seconds. When the machine goes to sleep, the following messages are displayed under set conditions

	When Awake		When Asleep
i.	00.00 – 09.00	0.00 – 9.99	(Decimal points always on)
ii.	10.00 – 99.99	10.00 – 99.99	(Decimal points always on)
iii.	Free	Fr. ee	(Decimal points always on)
iv.	Test	Te. st	(Decimal points always on)
v.	Out of Ordr	F-Er	(Fatal Error set)
vi.	- - .- -	- - -	(Decimal point always on)

When the vending machine detects that a battery is low an error code will be displayed (51). This code will remain on display until the battery has been replaced and the black reset button has been pressed.

When the vending machine detects that a battery is dead, the machine will permanently turn itself off.

## Section 2

### SERVICE MODE

In this dedicated version of software the VMC is limited to 5 columns, each with a dedicated "negative counters" to count down the stock in each column. When the corresponding negative counter reaches zero the selection is shown as "**Sold Out**". The capacities for each column are set with the "**nC**" menu option. If all columns are sold out coin acceptance is inhibited.

The negative counters can be reset using the "**A**" or "**B**" buttons:

“**A**” Button – unconditionally resets ALL counters to maximum capacity. The operation is confirmed with a long bleep and **ALL r-ld** on the display.

“**B**” Button – only resets any counters that are zero (i.e. fully vended) to their maximum capacity. Counters that are not fully vended are not changed. The operation is confirmed with a long bleep and **r-ld** on the display.

**Operation**

The operation of the machine can be adjusted by entering service mode by pressing the red button on the VMC circuit board and then accessing the appropriate operation. Price setting, coin value setting, and vend-credit criteria can be read and adjusted from here. The user can also perform tests on the machine through this mode. Note: any Credit will be cancelled on entry to Service Mode.

1. Enter Service Mode by pressing the Service Button on the VMC Circuit board.

On entry to Service Mode, up to 8 Error Codes may be displayed. These can be cleared using the Clear Errors menu option.

Error Code Display Er.\*\* where \*\* is the error number

2. Each Service Code can then be accessed by repeat pressing of the Service Button

	Pressing Service Button (AUDIT)	Displays	Au.--
	Pressing Service Button (PRICE SETTING)	Displays	PS.--
	Pressing Service Button (COIN VALUE SETTING)	Displays	Cn.--
	Pressing Service Button (CONTROL WORD SETTING)	Displays	Ct.**
			Where ** is the current word
	Pressing Service Button (SOUND On/Off)	Displays	So.0*
			Where * is the current state
OR	Pressing Service Button (STOCK MODE On/Off)	Displays	St.0*
	SL5000 – (NEGATIVE COUNTERS)	(0 or 1)	Where * is the current state
			<b>OR</b>
	Pressing Service Button (TEST MODE)	Displays	tE.--
	Pressing Service Button (TEST ALL MOTORS)	Displays	AL.--
	Pressing Service Button (CLEAR ERRORS)	Displays	CL.--
	Pressing Service Button (FACTORY RESET)	Displays	Fr.--
	Pressing Service Button (EXIT)		Machine goes to Sleep

3. Service Mode can be exited by stepping through all the menu options using the Service Button, or automatically if there is no activity for 30 seconds. On Exit the software version number is displayed as u2.10

**Audit**

Within Service Code AU (Audit) readings can be taken from the Display with regards to cash taken, and number of products vended. The following details can be obtained on the Display.

- 1 Total Cash Taken (up to 9999.99)
- 2 Total Product Vended (up to 9999)
- 3 Individual Product Vended (from each selection) up to 999
- 4 Total Cash Out as change (up to 9999.99) #

Press the Red Service Button repeatedly till the LCD Displays Au.  
*You are now in Audit Mode*

Press Selection 1 to reveal the total cash (\$) and (c) taken.  
 Displays 88.88 for 0.75 seconds before showing the cash values: Displays \*\*\*\*and--. \*\*



*That is the cent/pence value set, now we need the dollar/euro/pound value*

- 4. Press Selection Button 3 to increment the \*\*. Value      Displays      \*\*.??
- 5. Press Selection Button 4 to decrement the \*\*.Value      Displays      \*\*.??
- 6. Press Selection Button 5 to set the coin as a Free vend Token (pressing any other key reverts to a value)      Displays      FrEE

*Now with the value on the display, insert the coin for which the value must be assigned*

- 7. Insert Required Coin until it is accepted and the unit “bleeps” and displays “Set” to assign the value to that coin
- 8. Repeat steps 3 to 7 until all coins are set.
- 9. Press Service Button to exit

**Control Word Setting**

- 1. Press the service button repeatedly until (where \*\* is current value) *You are now in Control Word Setting*      Displays      Ct. \*\*
- 2. Press Selection Button 1 to increment the value      Displays      Ct.\*\*

*The control word is now set*

- 4. Press Service Button to exit

The control word options supported are:

<b>Code</b>	<b>Credit vs. Vend Price Before vend is performed</b>	<b>Excess Credit (G13 Coin Acceptor)</b>	<b>Excess Credit (Coin Change giver) #</b>
03	Credit >= Vend Price	Cancelled immediately	Given as change immediately
04	Credit >= Vend Price	Held until power removed	Returned when ER pressed or held until power removed
05	Credit >= Vend Price	Held for 60 seconds	Returned when ER pressed or held for 60 seconds
06	None – Free Vend Mode	Not applicable	Not applicable

**SOUND (On/Off)**

- 1. Press the service button repeatedly until (where \* is current value)      Displays      So.0\*
- 2. Press Selection Button 1 to toggle the setting      Displays      So.0\*
- 3. Press Service Button to exit

A value of 1 enables the sound, 0 disables the sound. Sounds within the menus cannot be disabled.

### **Negative Counter Setting**

This menu option, only available within the SL5000 version of the software allows the maximum capacity to be set for each selection. When the stock is “filled” (A or B button) these are the numbers that are loaded into the negative counters.

- |   |          |       |
|---|----------|-------|
| 1. Press the Red Service button repeatedly until<br><br><i>Press any selection : You are now in the Negative Counter setting Mode</i>                     | Displays | nC.-- |
| 2. Press Selection Button 1 to increment the 0s.--. Value (the selection number, 01 – 05, nn is the current negative counter capacity for this selection) | Displays | 0s.nn |
| 3. Press Selection Button 2 to decrement the 0s.--. Value (the selection number, 1 – 5, nn is the current negative counter capacity for this selection)   | Displays | 0s.nn |
| 4. Press Selection Button 3 to increment the counter capacity nn (maximum value 40)   | Displays | 0s.nn |
| 5. Press Selection Button 4 to decrement the counter capacity nn  | Displays | 0s.nn |
| 6. Press the Red Service Button to exit the mode  |          |       |

### **TEST MODE**

- |  |          |       |
|--|----------|-------|
| 1. Press the service button repeatedly until | Displays | tE.-- |
| 2. Press Service Button to exit              |          |       |

In Test Mode, pressing a selection switch will operate the selected motor. If a coin is inserted its value will be displayed for 1 second.

### **ALL MOTORS MODE**

- |  |          |       |
|--|----------|-------|
| 1. Press the service button repeatedly until | Displays | AL.-- |
| 2. Press Service Button to exit              |          |       |

In this mode, press selection button 1 to commence a single test vend on all fitted motors.

## CLEAR ERRORS

1. Press the service button repeatedly until Displays CL--
2. Press Service Button to exit

In this mode, press any selection button to clear all errors – confirmed with a “CLr” display.

## FACTORY RESET OF SETTINGS

1. Press the service button repeatedly until Displays Fr--
2. Press Service Button to exit

In this mode, press selection button 2 for two seconds to reset to these factory default settings (confirmed with a “Set” display).

Prices ;	Depends on software version
Coin Values:	0.05, 0.10, 0.20, 0.50, 1.00, 2.00
Control Word:	05
Sound:	ON
Stock Mode:	OFF
Payment Devices:	00 (Change giver and Bill Reader disabled)
Negative Counters	All 12

## Error Codes

Error Code Number	Fault detected	Hard/Soft fault	Action
01 .. 16	Motor 01..16 respectively	Soft	Repair/replace motor/home switch
20	EEPROM Checksum Error	Hard	Factory Reset through the menus to clear the fault, then set up prices etc again
30	Coin Mech fault	Hard	Repair/replace Coin Mech
41 – 57	Keypad fault (key 1..16 respectively)	Hard	Repair/replace keypad
70	Battery Low – no load voltage too low	Hard*	Replace/recharge the battery
71	Battery Low – under load voltage too low	Hard*	Replace/recharge the battery
72	Battery Low – battery internal resistance too high	Hard*	<b>Replace</b> the battery
73	Battery nearly low	Warning	Replace/recharge the battery soon

**Soft Errors** – unit will continue to operate though failed motors will show as “Sold Out” and be blocked from operation if selected. If the unit has detected 8 different soft faults it will become a Hard fault.

**Hard Errors** – the unit is put out of service. This mode can only be cleared via the service button.

**Hard\* Errors** – the unit is put out of service until the battery is replaced/recharged and the service button is pressed to clear the error conditions.

### MOTOR ASSIGNMENT

The following details would be helpful in a proper assignment of the Motor version. The SL5000 uses Seaga 3 wire 12v DC gray motor.

#### Motor Version Map

Version	Name	Description	Start Sense	Home	Time-out	Assignment	Indicator
1	Spiral Motor	Seaga 3 Wire Motor 24V white	Open	Yes	**	Individual	----
2	Spiral Motor	Seaga 3 Wire Motor 12V grey	Open	Yes	**	Individual	----
3	Reserved						
4	Reserved						
5	Reserved						
6	Reserved						

### Operation

How to Set up your Motor Version:

To Change .. do the following:

- |   |  |
|---|--|
| 1. Press the Red Service Button till AS<br>where * is the current version # | Displays AS-*                            |
| 2. Press Button 1 (or 2) to increment/decrement Version #                   | Displays AS.0? where ? is version 1 to 6 |
| 3. Press Button 3 to store Version Value                                    | Displays set                             |
| 4. Press Red Service Button or Reject to scroll to exit                     | Displays 00.00                           |

### Notes

- When setting up a Motor Version a default Timing value will be assigned automatically, (see default value). This may need to be changed (see timing value setting).
- The default motor version is Version 2.
- The VMC will return to Normal Mode (00.00) 60 seconds after the last button has been pressed unless the Red Service Button has been pressed or the reject is pressed.

### Timing Value

The timing value is a measure of time that allows the VMC to either ignore any signals from the motor until the time has expired, or if the time has expired without any signals. Depending on the Version, the timing Value has different characteristics.

Generally speaking the timing value is set to the normal vend time. For example, if the vend normally takes 6 seconds to complete, then set the timing value to 6. This allows for the VMC to 'expect' a home signal at the required time and to ignore any spurious signals in the meantime. It also sets an appropriate delay after a 'home' should be expected, disabling power to the motor if this home wasn't reached. In this case the motor is inhibited, the appropriate error code is set and the money entered is returned to the user.

The Vend cycle is Voltage and Load dependent so an approximate setting of the timing value needs to be set. The vend cycle, is the time from motor start (when at home) to motor end (return to Home) in seconds. This translates directly to the timing value that re-conditions the value for correct operation.

### Operation

- |   |   |
|---|---|
| 1. Press the Red Service Button to scroll to          | Displays AS.—                             |
| 2. Press Button 1 (or 2) to increment/decrement Value | Displays AS.** where ** is value 01 to 99 |
| 3. Press Button 4 to store Timing Value               | Displays set                              |

### Notes

- The current timing value is displayed whilst doing a test as PI.\*\*, where \*\* is current value
- The timing Value can be set from 00 to 99.

- For Version 1 Motors the default timing value is 7
- For Version 2 Motors the default timing value is 7
- The timing value reverts back to default every time a version change is set
- The timing value cannot be individually assigned and applies to all outputs when set.
- The VMC will return to Normal Mode (00.00) 60 seconds after the last button has been pressed unless the Red Service Button has been pressed or the reject is pressed.

### Negative Counter Sold Out Feature

Negative Counter can only be set and calibrated for each selection by entering Service Code nc . Selection can be incremented or decremented from 1 to 5 using buttons 1 and 2 respectively and each shelf can be allocated a negative counter from --.00 to --.99, where - - belongs to the shelf number. Negative counter value is incremented by button 3 and decremented by button 4. Each configuration can be saved by button no. 5.

#### 1.Operation

1. Press the Red Service Button Repetitively till LCD Displays:- **nC .- -**

*You are now in Negative Counter Setting Mode.*

2.Press Selection Button 1 to increment the \*\*. - - Value i.e shelf selection no (\*\* no. of shelf).

*The LCD will now display the incremented selection no.*

3.Press Selection Button 2 to decrement the \*\*. - - Value i.e shelf selection no (\*\* no. of shelf).

*The LCD will now display the decremented shelf selection no.*

The Shelf for which the Negative Counter has to be set has now been decided ; We now need to set the value of the Negative Counter for the selected shelf.

4. Press Selection Button 3 to increment the - - .\*\* Value i.e negative counter value (\*\* negative counter setting).

5. Press Selection Button 4 to decrement the - - .\*\* Value i.e negative counter value (\*\* negative counter setting).

*Press button 5 to store the decided negative counter value assigned to the selected shelf.*

*The Display will show **C.set***

6. Repeat steps 2 to 5 till all the shelves have been assigned the desired negative counter value.

7.Press Reject Button to exit

**Note:** *Default values of all Negative Counters are factory set as per the No. of spaces in each coil. If the user changes a coil to one which has different number of spaces then the Negative Counter pertaining to that coil will have to be reprogrammed as per procedure mentioned earlier.*

**2. Negative Counter Display :** To see the current status of all the Negative Counters assigned to different shelves , enter the service Audit mode. ( Au- - ).

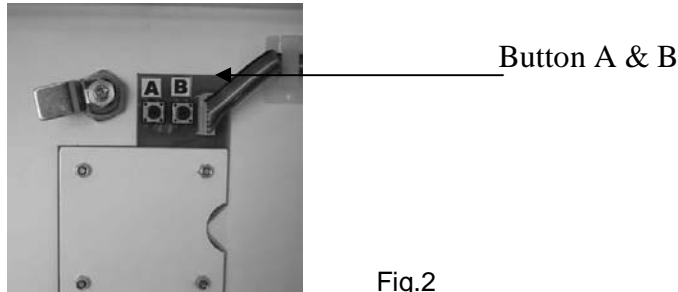
In the Audit mode Press button 5 , the Negative Counter value along with the selection no ( \*\*. - - where \*\* represents the shelf that has been selected and the - - represents the current value of the Negative Counter that has been assigned to that shelf.) is displayed in scrolling mode from shelf 1 to 5.

**3. Sold out Feature:** After setting the Negative Counter for each selection, the Negative Counter will get decremented by 1 each time that a valid vend is made. Negative Counters for each shelf thus keep on decrementing as and when a vend is made, from the set value to zero.

When the value of any Negative Counter reaches zero, pressing the selection button assigned to that Negative Counter will then prompt the display to show **SOLD OUT**. No vend can then be made from that shelf. Vends from other shelves will not be interrupted and can be made as normal

**Note:** *If a coil has 7 spaces/products, it will show SOLD OUT after vending 7 products.*

4. Resetting of Negative Counters of fully vended shelves: **Button no. B** (fig.2) has been assigned for the resetting of the Negative Counter of fully vended shelves. If one or more selection(s) is /are sold out, then keeping the button B pressed for 3-4 seconds will reset all the Negative Counters of the shelves which were fully sold out at that moment.



A long beep with **r-ld** will appear on the display indicating that partial resetting has taken place and that the Negative Counters which were zero prior to resetting have been restored to set value. The Negative Counters of all other selections which were not fully sold out at that moment will not be disturbed and will maintain the value they had reached.

**Note:**

**a). Safety Feature :** *Button B will only be operational from the moment that any of the Negative Counters have reached to zero value.*

***If none of the neg. counters are zero, then pressing button no. B will not yield any results.***

**b).** *To prevent accidental partial resetting, button no. B needs to be kept pressed for 3-4 seconds, till the display shows **r-ld**, confirming the partial resetting has been executed.*

5. All Reset Feature: If it is desired to totally reset all the shelves, irrespective of whether any of them have reached zero value, then button no. A needs to be kept pressed for 3-4 seconds.

A long beep with **ALL r-ld**, on display will confirm that the resetting/reloading of all the 5 Negative Counters to their preset value has taken place

**Note :**

**a)** *To avoid accidental reloading of all the neg. counters, button no. A (fig.2) needs to be pressed for 3-4 seconds, till the display shows **ALL r-ld**, thereby confirming the reloading of all Negative Counters.*

**b)** *It is desirable to indicate on an Instruction label on the front of the machine that the customer should first press the selection button on the machine to check product availability before inserting money into the coin validator.*

If money is first inserted into the validator and all the shelf selections are empty i.e. 'Sold Out' and then a selection is made, then the display will show 'Sold Out' and the money will not be returned.

**Test Sequence**

The VMC constantly tests the operation of the machine, the data stored and the peripherals attached. Every .01 seconds, a self-test analysis is done to verify correct operation of the machine. Further tests are done on Power Up, Button Press, Coin Insertion and entering/exiting Service mode. These tests will generate the relevant fault code as necessary. However, it is possible to do a thorough analysis through Service Code AP, which will individually test each motor as well as escrows and other related functions. This is useful to re-align any jammed motors.



2. Press and hold selection 2 for seconds till Displays set  
The machine will automatically exit from service mode and display ' Out Of Ord(e)r '
3. Press Red Service Button to re-enter Service Mode and re-configure settings.

### Fault Analysis

Within the machine there is an internal fault analysis. Every 0.1 second the machine will do a self analysis test. This test does not affect the normal operation of the machine. There will be no change of status of the machine from a users point of view. The machine will still accept coins, display prices and vend products even during self-analysis test. If the machine observes a problem it will double verify the cause and store the error, which will be displayed during service mode. To display an error code, simply enter service mode by pressing the red button. The error code will be displayed intermittently. To clear an error code, simply exit service mode (rectify error if necessary).

Note: If more than 5 normal error codes have been detected the machine will assume 'Fatal error' status putting the machine 'Out of Ord(e)r'.

### Fault Code Map

Code	Description	Remedy
--	No error present	None
00	Empty Error Location	None
01	Motor 1 Error	Remove Jam-Activate Test Sequence-Exit Service Mode
02	Motor 2 Error	Remove Jam-Activate Test Sequence-Exit Service Mode
03	Motor 3 Error	Remove Jam-Activate Test Sequence-Exit Service Mode
04	Motor 4 Error	Remove Jam-Activate Test Sequence-Exit Service Mode
05	Motor 5 Error	Remove Jam-Activate Test Sequence-Exit Service Mode
30	Zero Price Setting	Reset all prices - Exit Service Mode
31	Zero Coin Count Value	Reset Coin Count Value - Exit Service Mode
32	Zero Control Word	Reset Control Word Value - Exit Service Mode
33*	Zero Coin Value	Reset Coin Value - Exit Service Mode
35	Incorrect Motor Version	Motor Version outside of norm. Confirm Motor Version
40	Data Corrupt Price	Reset all Prices [Fatal error] - Exit Service Mode
41	Data Corrupt Coin	Reset Coin Values [Fatal error] - Exit Service Mode
42	Data Corrupt Control	Reset Control Code [Fatal error] - Exit Service Mode
43	Data Corrupt Selection	Reset Motor selection [Fatal error] - Exit Service Mode
44	Fatal Power Up	Confirm Prices, Product codes and Coin values - Exit Service Mode
45	Power Interrupt	Possible Fraud attempt - Exit Service Mode
46	Invalid Coin Output Code	Replace/Reprogram Coin Acceptor
47*	Button Panel fault	Check all buttons are operating currently - Exit Service Mode
48	Coin Validator Error/Fault	Check operation of Coin acceptor - Exit Service Mode
49*	Coin Validator alarm	Possible fraud on Coin acceptor – Check operation of Coin Acceptor
51*	Battery Low	Replace Battery - Exit Service Mode – Press any selection button 5 times
52	Coin Acceptor Rate Low	Check Coin Acceptor- Check battery - Exit Service Mode
53*	Battery Dead	Replace Battery - Exit Service Mode - Press any selection button 5 times
55*	Printer Communication Error	Check Printer operation – Disconnect printer
56*	Change giver Comm's Error	Check Change giver operation
57*	Modem Communication Error	Check Modem Operation
58*	Note/Bill reader Comm's Error	Check Note/Bill reader operation
59*	Cash-Less device Comm's error	Check Cash-Less device operation
60*	External Alarm Activation	Alarm has been activated – check for machine tampering
61*	Escrow Keep Time-out	Check Escrow Unit- Activate Test Sequence – Exit Service Mode
62*	Escrow Return Time-out	Check Escrow unit- Activate Test Sequence – Exit Service Mode
70*	EEPROM Write Error	Check Prices and Coin data
71*	EEPROM Read Error	Check Prices and Coin data
99*	Machine Lock-up	Code Required-Consult Machine Supplier

Note: \* Reserved Codes – Not present in current SL5000 model

### **SOFTWARE VERSION**

Currently the VMC is powered by a Flash Based Micro-Controller Integrated Circuit. Flash based technology is the latest of its kind and is unique in that all data is retained within the IC even on power loss. Flash based systems also have the advantage of being able to be re-programmed with relevant updates.

The software version is displayed for a fraction of a second on exiting from service mode.

## SOFTWARE RESET

As with all microprocessor based devices, a device reset must be incorporated in case the device goes into loop state. The VMC has incorporated on board an internal device reset or watchdog which pulls the device out of any loop state. A loop state occurs when the software locks itself on a particular branch code, thus preventing the VMC from operating correctly. Occurrences of this are extremely rare and are usually a result of Voltage Spikes or strong Electro-Magnetic Interferences.

The Device may also be reset by depressing the Black Reset Button on the Circuit Board. This does not affect any of the overall operations of the VMC, it purely pulls the device back as if it were initially powered up. The only information lost on pressing the Black Button is the following:-

- 1.Any Credit on the display will be cleared
- 2.Any error Codes that occurred are cleared.

## Summary Of Software Versions

### Motor Version Numbers

Ver	1	2	3	4	5	6	FLASH	TAS	NOTES	DATE
1.01	X	X					X		Negative Counter, improved motor handling & Battery performance	Nov '04

\*\* Includes 00—07. minor device changes

TAS Token Access System

ACC: Accumulated Audit Readings

## Section 3

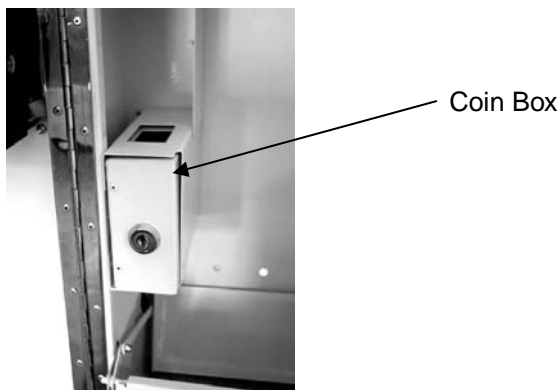
## MONEY MECHANISM

### COIN VALIDATOR

The Coin Validator receives the coin from customers. The Coin Validator will accept quarters, dimes, and nickels. The Coin Validator can be set to accept the new golden dollar

One (1) coin box is provided with your SL5000, it is stored in the bottom left side inside the machine (Fig. 3). Once the front door is opened, pull out the coin box to empty it.

Fig. 3



### CLEANING

Your Coin Validator needs to be cleaned only when the Coin Validator no longer reads the coin values.

- 1.Cleaning the Optics. You will need cotton swabs [Q-tips], and a 50/50 water/isopropyl [rubbing] alcohol solution.
  - a. Unlock and open the front door
  - b. Remove the Coin Box, and Pull the Vertical shelf out.
  - c. Swab the lenses with the solution, and reassemble.

## COMMON QUESTIONS AND ANSWERS

Q. How High Can I set my Prices?

A. Each selection can be priced individually up to \$99.99

Q. Can Customers reach down and help themselves to product?

A. No, They Can't. The product door is a Triangle shaped flap designed to deter reach and theft. When pushed, the back of the triangle flap will come in contact with the bottom product tray and will become an anti-theft wall to act as a block.

Q. In the event of a power outage, will I have to reprogram my Vendor?

A. No, Your selection prices are safely stored.

Q. Coin Validator is not accepting Coins

A. Lenses may be dirty

Coins may be damaged or worn out

Wire harness may not be connected properly

Coin Validator may not have power

Special Note: We suggest that you always partially fill the vendor with product and perform at least five (5) test vends. Test vends can be performed easily by entering Service Mode and running "Individual motors testing".

### **Notes**