Hamilton Manufacturing Corporation

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Pay & Display Autocashier Operational Manual

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TABLE OF CONTENTS

| I. INTRODUCTION | 7 |
|--|----|
| II. INSTALLATION | |
| MECHANICALINSTALLATION | |
| Unpacking | |
| Positioning | |
| Mounting | |
| Running Conduit | |
| Figure 2-1 Mounting Details | |
| ELECTRICAL INSTALLATION | |
| Pulling Wires | 11 |
| Wire Terminations | 11 |
| Additional Wire Terminations For Use With The Credit Card System | 12 |
| Setting Cycle Synchronization Switch | 12 |
| General Test | |
| Figure 2-2 Relay Panel | 13 |
| III. OPERATION | 14 |
| NORMAL OPERATION | 14 |
| DISTRIBUTION PANEL | |
| Figure 3-1 Distribution Panel | |
| ENVIRONMENTAL CONTROLLER | |
| Figure 3-2 Left Side View | 17 |
| Figure 3-3 Rear View | 17 |
| VOICE PANEL | 18 |
| Volume Control | |
| Figure 3-4 Voice Panel | |
| IV. AUDITS | 19 |
| Inventory and Total Deposits | 19 |
| Inventory and Total Vending | 19 |
| Inventory and Total Overpaid | 20 |
| Audit and Total Vault Count | 20 |
| Clear Resettable Inventories | |
| CONFIGURATION OF AUDIT REPORT | |
| V. PROGRAMMABLE OPTIONS | 21 |
| Token Coin Mode | 21 |
| Token Coin Value | 21 |
| Tokenote® Mode | 21 |
| Tokenote® Value | 21 |
| Coupon Mode | 21 |
| Tokenote Scenarios | 22 |
| Coupon Values | 23 |

| | Item Prices | 23 |
|---------------|---|----|
| | Set Item Times | 23 |
| | Item Display | 23 |
| | Proceed Prompts | 23 |
| | Welcome Prompts | 23 |
| | Ext Display Messages | 24 |
| | Set Date & Time | 24 |
| | Set Empty Mode | 24 |
| | Set Hopper Contents | 24 |
| | Set Build Mode | 25 |
| | Set Pay Default | 25 |
| | Set Button Mapping | 25 |
| | Ticket Headers | 25 |
| | Ticket Footers | 25 |
| | Set Unit Number | 25 |
| | Set Welcome Delay | 25 |
| | Vend Duration | 26 |
| | Set Proceed Time | 26 |
| VI. | PROGRAMMING | 27 |
| \mathcal{D} | Diagram 6-1 | 27 |
| | INVENTORY DEPOSITS? | |
| | INVENTORY VENDING? | 28 |
| | INVENTORY OVERPAID? | 29 |
| | AUDIT VAULT COUNT? | 29 |
| | To clear all the resettable inventory categories: | 29 |
| | PRINT AUDIT REPORT? | |
| | PRINT CONFIGURATION REPORT? | 30 |
| | TOKEN COIN MODE? | 30 |
| | TOKEN COIN VALUE? | 30 |
| | TOKENOTE MODE? | 30 |
| | TOKENOTE VALUE? | 31 |
| | COUPON MODE? | 31 |
| | COUPON VALUES? | 31 |
| | ITEM PRICES? | 32 |
| | SET ITEM TIMES? | 32 |
| | ITEM DISPLAY? | 33 |
| | PROCEED PROMPTS? | 33 |
| | WELCOME PROMPTS? | 34 |
| | EXT DISPLAY MSGS? | 34 |
| | SET DATE & TIME? | 35 |
| | SET EMPTY MODE? | 35 |
| | SET HOPPER CONTENTS? | 35 |
| | SET BUILD MODE? | 36 |
| | SET PAY DEFAULT? | 36 |
| | SET BUTTON MAPPING? | 36 |
| | TICKET HEADERS? | 36 |

| TICKET FOOTERS? | |
|------------------------------|----|
| SET UNIT NUMBER? | |
| SET WELCOME DELAY? | |
| VEND DURATION? | 38 |
| PROCEED TIME? | |
| TOTAL DEPOSITS? | |
| TOTAL VENDING? | 38 |
| TOTAL OVERPAID? | 39 |
| TOTAL VAULT COUNT? | 39 |
| VII. MAINTENANCE | |
| MONTHLY MAINTENANCE | 41 |
| Hopper | 41 |
| Validator | 41 |
| Stacker | |
| ANNUAL MAINTENANCE | 41 |
| Hamilton Validators | |
| Hamilton Stackers | |
| VIII. ERROR CODES | 42 |
| ERROR CODES | |
| \$5 Input Stuck | |
| \$1 Input Stuck | |
| 25¢ Input Stuck | |
| Token Input Stuck | |
| Drop Switch Stuck | |
| Unexpected Coin Drop | |
| Hopper Coasting Error | |
| Hopper Time-out | |
| Stacker Time-out | |
| Multiple Power Int | |
| Memory Data Altered! | |
| Out Of Paper | |
| Printer Error | |
| Release Button | |
| IX. TROUBLESHOOTING | |
| | |
| Money Acceptance | |
| Money Acceptance (Continued) | |
| Money Acceptance (Continued) | |
| Hopper | |
| Display | 49 |
| Voice | |
| X. PARTS | |
| Interchanging Validators | |
| XI RECEIPT PRINTER | 52 |

| Safety Precautions | 52 |
|--|----------|
| Inserting Paper | |
| Loading Paper | |
| Clearing a Paper Jam in the Autocutter | 54 |
| Figure 11-6 | |
| Head Cleaning Precautions and Procedure | |
| Cleaning Precautions | |
| Cleaning Procedure: | |
| Figure 11-7 | |
| THERMAL PAPER SPECIFICATIONS | |
| XII. EIC COMMUNICATION PANEL | |
| Figure 12-1 EIC Front View | |
| Figure 12-2 EIC Left Side View | |
| XIII. TOKENOTES® | |
| Programming One or More Tokenotes® with the Same Value | |
| Programming Two Or More Tokenotes® With Different Values | |
| volding Tokenotes® | 01 |
| | |
| | |
| APPENDICES | |
| | |
| Appendix A | |
| Appendix A Default Settings | 67 |
| Appendix A Default Settings Default Settings (cont.) | 67 68 |
| Appendix A Default Settings Default Settings (cont.) Appendix B. | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C Welcome Messages | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C Welcome Messages Appendix D | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C Welcome Messages Appendix D Proceed Prompts | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C Welcome Messages Appendix D | |
| Appendix A Default Settings Default Settings (cont.) Appendix B Item Displays Appendix C Welcome Messages Appendix D Proceed Prompts | |

ABOUT THIS MANUAL

PLEASE READ THIS MANUAL CAREFULLY PRIOR TO INSTALLING THIS UNIT. A complete understanding of the operation of this unit is essential for a successful installation. Refer to the Table of Contents for easy navigation through this manual.

This manual was designed to provide general information about operation, installation and maintenance of the Pay & Display Autocashier. This manual will enable the operator to program the Pay & Display, perform audits, detect error codes and perform basic troubleshooting procedures. Also included are pre-programmed factory settings, Item Names and Welcome Messages, as well as a Tokenote® Training Guide for use with the optional Tokenotes®. Basic information is provided for the hopper, stacker and validator. However, if additional information is needed for these components, refer to the appropriate manual. To obtain assistance from the manufacturer, please call (800) 837-5561 or (419) 867-4858. Or contact Hamilton Mfg. on-line @ http:\\www.hamiltonmfg.com.

When calling for assistance, it is important to have serial numbers readily available. Please record these numbers in the spaces provided.

| ACW MODEL & SERIAL # |
|-----------------------------|
| |
| CONTROLLER MODEL & SERIAL # |
| HOPPER MODEL & SERIAL # |
| |
| STACKER MODEL & SERIAL # |
| VALIDATOR MODEL & SERIAL # |
| VALIDATOR MODEL & CERTAL # |
| LOCK/KEY # |
| EIC SERIAL # |
| |

Please complete the warranty card, which was included with your machine, and return it to the manufacturer.

I. INTRODUCTION

☐ The many benefits offered by the Pay & Display system include:

- Reduced personnel, and thus lower payroll.
- Increased security by eliminating the "silent partner" employee theft problem.
- Increased operating time as a result of a tireless customer interface that is capable of working 24 hours per day.

☐ The following is a list of features for the Pay & Display:

- A receipt printer to offer customers a hard copy of their transaction. This can also be used to print an audit report.
- A large, bright character display that welcomes customers and guides them through their transactions.
- It allows customers to select and pay for one of eight possible amounts of parking time, returning change if necessary.
- The Pay & Display is capable of accepting Hamilton Tokenotes®. Tokenotes® are paper tokens that are inserted into the Hamilton HVX, XE or STA Validator like dollar bills and used as credit toward the purchase of parking time.
- An Audible Voice that is used to provide feedback to customers to help guide them through transactions.
- An Out of Service Relay used to signal an auto-dialing modem to contact the owner if the unit shuts down. (Only the signaling relay is provided. The auto-dialer is not included.)
- An environmental control unit to help protect against the elements.
- Universal harnessing and door for ease of adding options.

☐ The following optional equipment is available for use with the Pay & Display:

- An External Display featuring a 3" x 18" display area. The External Display is used to display customized messages and to guide customers through transactions by displaying instructions in a large, bold fashion.
- Preformed bases that place the Pay & Display at the factory recommended height for various mounting situations.
- A Lighted Hood, which is recommended if the ACW is mounted on a base.
- A credit card acceptance system that gives the capability of accepting all major credit cards.
- A variety of bill acceptors. Choose from the Hamilton STA or XE or a Coinco® or Mars® Validator. Tokenote® acceptance is available in the Hamilton STA or XE Validators only.

Document #101-0132 7 10/17/06

<u>II. INSTALLATION</u>



NOTE: It is very important to read and understand all of these instructions before attempting installation. **Hamilton will not be responsible for injury due to improper installation.**

The installation process contains two distinct operations, Mechanical Installation, and Electrical Installation

MECHANICAL INSTALLATION

Unpacking

There are a number of points to keep in mind while unpacking your Pay & Display. These items will make the installation and continued operation of your machine run smoother. These tips are listed below.

Be sure to save your keys

The keys and lock inserts are placed inside a small cloth bag, then packaged in a cushioned envelope and attached to the outside of the machine. When removing the shrink-wrap, be sure to locate the bag containing the keys and set it aside so it does not get thrown away. MAKE A PERMANENT RECORD OF THE NUMBERS ON YOUR KEYS IN CASE A KEY IS LOST AND MUST BE REORDERED.

Remove the packing strap from the hopper

The hopper comes shipped with a packing strap secured around it to minimize the vibrations caused by shipping. If this strap is not removed, the hopper will not tip out for easy filling. The strap may be cut off with a pair of wire cutters or sturdy scissors. Cardboard is placed around the edges of the hopper to protect it during shipping. After removing the strap, be sure to remove the cardboard as well.

Remove all packing debris from the hopper

During unpacking, ensure that debris does not fall into the hopper bowl. If this material is not removed, the hopper could jam. With the power completely disconnected, remove all loose material inside the hopper bowl.

Fill hopper with coins

Before powering up the machine for the first time, it is recommended that the hopper be filled with coins. In order for the hopper to dispense coins, there must be enough coins in the hopper bowl to touch the two sensing plates located at the bottom of the bowl. Otherwise, the hopper will register as empty.

Positioning

There are no set guidelines for the placement of the Pay & Display. For drive up operation there is a typical height from the pavement to the bottom of the cabinet of approximately 26".

■ Mounting

Safety is a primary concern, so the equipment must be securely mounted. Hamilton recommends using one of the following methods:

• The first method is to construct a small brick or concrete kiosk that will house the Autocashier.

- Figure 2-1 gives the Pay & Display mounting hole locations. Have your engineer or contractor recommend construction suitable for strength and stability.
- The other method involves mounting the Pay & Display on an optional ACW Base described in the INTRODUCTION section. In this situation, the base is secured to the pavement and the Pay & Display is secured to the base. Fasteners to be used should be recommended by your engineer as to strength and suitability. If this method is chosen, it is strongly recommended that the optional ACW Lighted Hood be installed. This addition serves to better insulate the Pay & Display from harsh environmental conditions as well as offering an attractive lighted top. Contact Hamilton Mfg. for installation instructions for the ACW Lighted Hood.

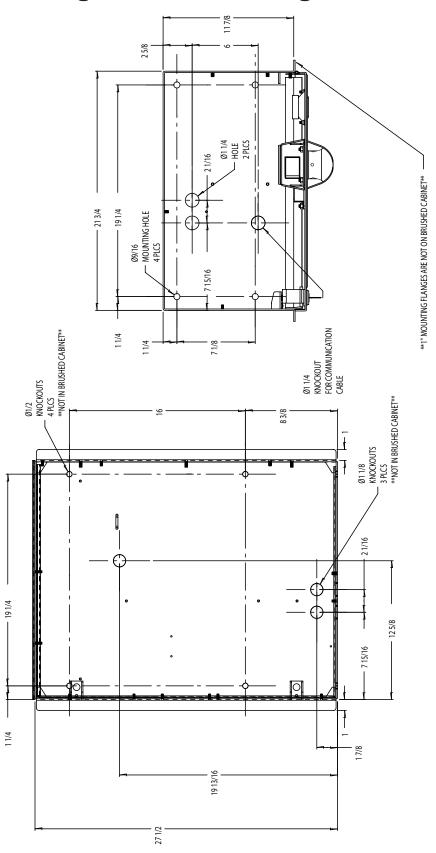
□ Running Conduit

Typical electrical code requires low and high voltage wiring to be run in separate conduits. Because of this, the Pay & Display has three 3/4" conduit mounting holes in the back of the cabinet, as well as two 3/4" and one 1/2" conduit holes in the bottom of the cabinet. These bottom holes are matched with identical holes in any of the optional ACW Bases offered by Hamilton Mfg.

NOTE: At least one bottom hole must remain unused at all times.

- Conduit carrying high voltage 120VAC power lines, as well as any signal lines containing 120VAC, should be connected to the bottom left conduit hole, as viewed from the front of the machine.
- Conduit carrying lines with 24VAC, 24VDC, 12VAC or 12VDC signals should be connected to the bottom right conduit hole, as viewed from the front of the machine.
- If any external communication lines (telephone, POS etc.) are used, they should be run through separate conduit and connected to the top conduit opening.

Figure 2-1 Mounting Details



ELECTRICAL INSTALLATION

CAUTION! TO AVOID SEVER INJURY OR DEATH, ALWAYS DISCONNECT POWER TO THE MACHINE WHEN SERVICING!

This Autocashier operates on 120 VAC, 60 Hz. This unit uses a 5 AMP Circuit Breaker. This unit needs to be hard-wired with conduit. A **Ground Fault Interrupter** is included with the Pay & Display.

□ Pulling Wires

The number of wires needed to be pulled for the Pay & Display system is shown below:

| Three Wires | Electrical Power (Hot, Neutral and Ground) | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|
| Two Wires | Gate (Optional) | | | | | | | |
| Two Wires | Cycle Inhibit (Optional) | | | | | | | |
| Spare Wires | For Future Options | | | | | | | |

For proper operation of the Pay & Display, all wires listed above must be pulled and terminated as explained in the following section.

□ Wire Terminations

The wire terminations should proceed as follows:

- One side of the three power supply wires (120VAC HOT, 120VAC NEU, and 120VAC GND) should be attached directly to the electrical service panel supplying power to the installation. They should be connected to a 15 AMP circuit breaker and the Pay & Display should be the only device on this circuit. The other end of these three wires should be routed into the Pay & Display through the installed conduit. The wires should be terminated as follows:
 - L1 (HOT) to terminal C1
 - L2 (NEU) to terminal C2
 - G (GROUND) to terminal C3.
- The GATE wire pair is used to signal an optional traffic gate to open at the end of any transaction. This signal presented to the gate control logic is a normally open, dry contact relay closure. In the Pay & Display, connect one end of this pair to terminals A1 and A2 on the Relay Panel terminal block. Refer to literature supplied with the gate for proper connections on the other end of this pair.
- The CYCLE/INHIBIT pair is used to signal the Pay & Display to inhibit normal operation and go out of service. This signal would be used when the parking lot is closed. The external signal must be able to energize the coil of the CYCLE/INHIBIT relay by supplying both voltage and current. The proper connection of the CYCLE/INHIBIT pair will have one wire connected to terminal C5 of the Relay Panel (it doesn't matter which one) and the other wire of the pair connected to terminal C6.
- The OUT-OF-SERVICE RELAY is included in the Pay & Display. Terminals B3 (common), B4 (normally open) and B5 (normally closed) are supplied as well. If an error occurs that causes the Pay & Display to go out of service, the relay will be activated.

Document #101-0132 11 10/17/06

Additional Wire Terminations For Use With The Credit Card System

The installation of the machine should proceed as outlined in the above section. However, if a Credit Card System is being used, the following must be performed, as well.

- The telephone line used for the ACW must be a dedicated line. No other telephones or equipment can be connected with the same line. (**The use of line splitters is not permitted**.) If more than one machine is to be installed at the same location, a dedicated phone line must be run to each machine.
- The telephone line should be run in a separate conduit. If any other wiring is run in the same conduit, communication problems could occur.

□ Setting Cycle Synchronization Switch

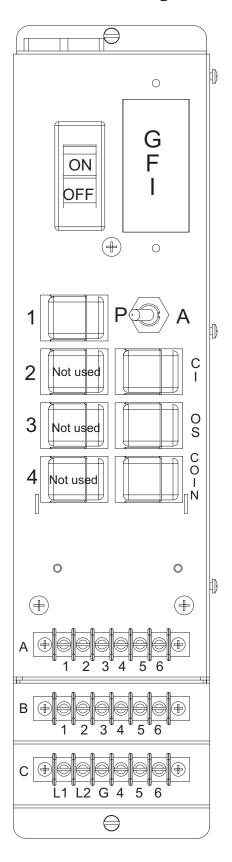
The Cycle Synchronization Switch is the silver toggle switch located on the Relay Panel. The proper setting of the switch depends on whether an external inhibit signal is being used, and if so whether the CYCLE/INHIBIT relay coil is normally energized or de-energized. If an external inhibit signal is not being used set the switch to the passive (P) position. If an external inhibit signal is being used and it energizes the CYCLE/INHIBIT relay when the parking lot is closed then set the switch to the passive (P) position. If the signal normally energizes the CYCLE/INHIBIT relay then de-energizes the relay when the parking lot is closed then set the switch to the active (A) position.

□ General Test

After completing all of the steps under **Mechanical** and **Electrical Installation**, be sure to test the following items for proper function.

- Turn on power at the Relay Panel.
- Be sure to test all facets of the operation, including the bill acceptor and coin acceptors.
- Test for proper printing of receipts and Cycle/Inhibit control.
- Ensure that coins are being dispensed for both change and as a refund. If there are any problems refer to the TROUBLESHOOTING section or contact Hamilton Mfg.

Figure 2-2 Relay Panel



III. OPERATION

NORMAL OPERATION

When a customer approaches the Autocashier, they are greeted by a bright display that welcomes and/or instructs them on how to proceed. At this point, the customer is able to do one of two things:

- 1. The customer may first select the desired amount of parking time by pressing one of the eight selection buttons.
 - a. The display will alternate between the amount of time selected and the amount of money to be deposited.
 - b. The message will remain until the parking time has been paid for in full, with the amount displayed being updated after each deposit.
- 2. Or the customer may begin by depositing money, tokens, credit cards or Tokenotes®, depending on the machine, to be used towards an upcoming time selection.
 - a. The display will change to a constant message that shows the amount of credit that has been accumulated.
 - b. The customer must select one of the eight time selections.

Once the customer has made a selection and has deposited enough credit in money, tokens, credit or Tokenotes® to pay for it, the transaction is complete. At this point, the Pay & Display will:

- Return any necessary change.
- Print a receipt with an expiration date and time.
- Signal the customer to proceed by displaying the Proceed Messages.
- After several seconds of displaying the message, the display will return to the sequencing Welcome Messages and the system prepares for the next transaction.

At the end of the transaction the amount of parking time purchased is added to the present time in order to calculate the expiration date and time. Then the customer is issued a ticket that has the expiration time printed on it in large block numbers. The customer is further instructed to display the ticket on the driver's side dashboard so a parking enforcement officer can read it from a distance. As long as the customer returns before the ticket expires he avoids having his vehicle towed.

A vend relay closure is also provided at the end of every transaction for the purpose of activating an optional gate or traffic light.

DISTRIBUTION PANEL

The Distribution Panel is the distribution point for connections to individual components. When removing harnesses from the Distribution Panel, you must first squeeze the release tabs on the connectors. The harnesses are connected as follows:

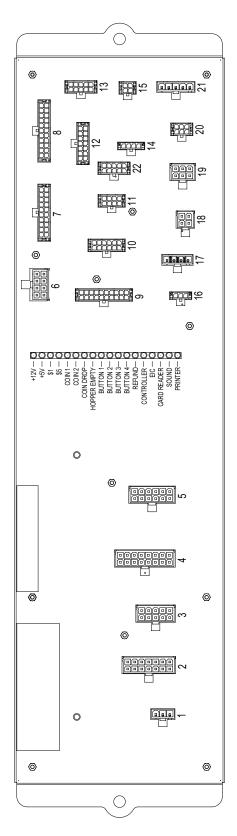
| 1 | DC Power Supply Input | 12 | Not used |
|----|------------------------------|----|---------------------------|
| 2 | ACW Controller AC1 | 13 | Sound |
| 3 | Hamilton Stacker/Validator | 14 | Credit Card |
| 4 | Relay Pan | 15 | ACW Internal Display |
| 5 | Hopper/24V Transformer Input | 16 | Printer Data |
| 6 | DC Power Supply Output | 17 | External Serial Interface |
| 7 | ACW Controller DC1 | 18 | External Display |
| 8 | ACW Controller DC2 | 19 | 3rd Party Validator |
| 9 | Printer Power | 20 | Coin Mechs |
| 10 | EIC | 21 | 24V Transformer Output |
| 11 | Not Used | 22 | Select Buttons |

A series of red LED's on the Distribution Panel will help in the troubleshooting process. The following is a list of their indications. See Figure 3-1 for a complete diagram of the Distribution Panel.

| +12V | Should always be on. If it is off, check AC power supplies and | | | | | | |
|--------------|---|--|--|--|--|--|--|
| + 12 V | fuses under Hopper as well as GFI. | | | | | | |
| +5V | Same as above. | | | | | | |
| \$1 | Should flash when a \$1 or a Tokenote is accepted. | | | | | | |
| \$5 | Should flash when a \$5, \$10, \$20 or Tokenote is accepted. | | | | | | |
| COIN 1 | Will flash when a coin is accepted in Coin Mech #1. | | | | | | |
| COIN 2 | Will flash when a coin is accepted in Coin Mech #2. | | | | | | |
| COIN DROP | Will flash each time a coin is paid out of the Hopper. | | | | | | |
| HOPPER EMPTY | Will be on steady when Hopper is empty. | | | | | | |
| BUTTON 1 | | | | | | | |
| BUTTON 2 | Will flash when the selection buttons or the refund button is | | | | | | |
| BUTTON 3 | | | | | | | |
| BUTTON 4 | pressed. | | | | | | |
| REFUND | | | | | | | |
| CONTROLLER | Flashes as Controller communicates with EIC. | | | | | | |
| EIC | Flashes as Controller receives signal back from EIC. | | | | | | |
| CARD READER | Will flash when card is swiped. | | | | | | |
| SOUND | Will flash when voice is operating. | | | | | | |
| PRINTER | Will be on steady while report is printing from external printer. | | | | | | |

Document #101-0132 15 10/17/06

Figure 3-1 Distribution Panel



ENVIRONMENTAL CONTROLLER

The Environmental Controller is used to maintain temperature in the Pay & Display. It contains the two replaceable fuses, as well as the thermostat. See Figures 3-2 and 3-3 for illustrations of their locations.

2 Amp Fuse

The 2 amp fuse is on the primary side of two 24VAC transformers that power the coin mechs, external display and 3rd party validators.

5 Amp Fuse

The 5 amp fuse is for the fan and heater.

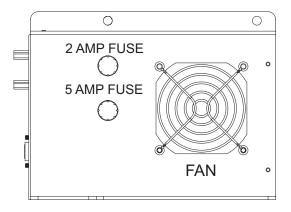


Figure 3-2 Left Side View

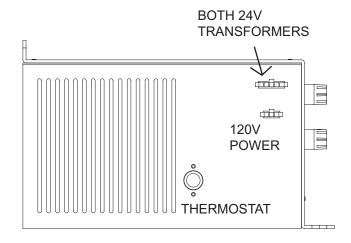


Figure 3-3 Rear View

VOICE PANEL

The Tunnel Pass's Voice Panel is also located under the hopper.

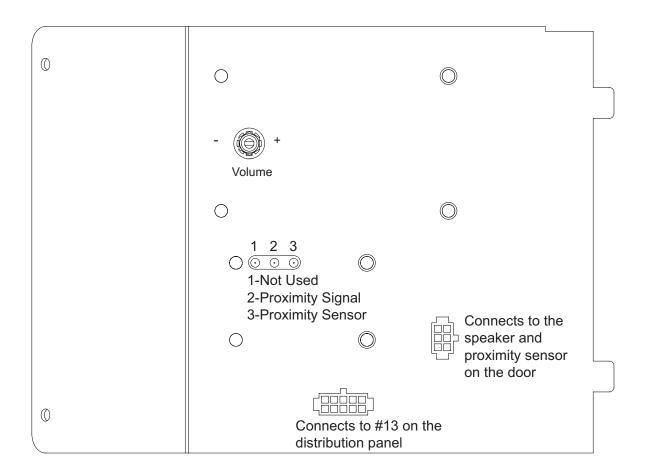
There are three red LED's on this panel, however only two will be used. The #2 LED indicates the Proximity Signal. It will flash when the sensor signal is being sent to the controller. The #3 LED indicates the Proximity Sensor. It will flash if it is blocked by an object other than a vehicle.

The connectors on the Voice Panel are for the speaker and sound. The harness connected to the bottom terminal should also be connected to the #13 connector on the Distribution Panel (See Figure 3-1). The other connector is for the speaker and the proximity sensors which are located on the door.

Volume Control

To eliminate a voice greeting and instructions, turn the volume completely down by turning the switch counterclockwise. To turn the volume up, turn the switch clockwise.

Figure 3-4 Voice Panel



IV. AUDITS

For added security, the Pay & Display contains two complete sets of audits.

The RESETTABLE audit categories include:

- INVENTORY DEPOSITS?
- INVENTORY VENDING?
- INVENTORY OVERPAID?
- AUDIT VAULT COUNT?

Maximum value for these fields before rolling over is 65,535 for counts and \$16,383 for dollar amounts.

The NON-RESETTABLE audit categories include:

- TOTAL DEPOSITS?
- TOTAL VENDING?
- TOTAL OVERPAID?
- TOTAL VAULT COUNT?

The information stored is the same for both sets. However, the RESETTABLE AUDITS are values accumulated since the last time the audits were cleared. The NON-RESETTABLE AUDITS contain values accumulated throughout the entire life of the controller while it has been inside the Pay & Display.

For details on how to view the audit information on your Pay & Display, refer to the PROGRAMMING section. (It may be necessary to read the entire section to get a complete understanding of how the controller functions.)

The information stored in each audit is described below.

Inventory and Total Deposits

The DEPOSITS category shows a complete dollar amount of everything deposited into the machine, minus the change returned to the customer. It is broken down into three subcategories, CASH, TOKENS and CARDS. The CASH deposit subcategory gives a total dollar amount of all \$1, \$5, \$10, \$20 bills and quarters deposited. It takes into consideration change that has been returned to the customer, displaying the amount of profit made. The TOKEN deposit subcategory gives a total dollar amount of all Tokenotes® and token coins deposited. The CARDS subcategory gives the total dollar amount of all debit card and credit card transactions, if applicable.

Inventory and Total Vending

The VENDING category gives a complete breakdown of each selection purchased and the method of payment for each selection. It does this by showing the total amount of cash received in payment for each of the four selections as well as the dollar amount of token credit and debit card credit received. The VENDING category also takes into consideration the amount of change that has been returned to the customer, displaying the amount of profit made.

Inventory and Total Overpaid

The OVERPAID category totals the amount of change that could not be dispensed to customers. Most frequently, this category is adjusted when the coin hopper is empty and the Pay & Display is operating in the USE EXACT AMOUNT mode. If a customer deposits more than the selected price, the difference between the amount deposited and the selected price will be added to the overpaid categories.

Audit and Total Vault Count

The VAULT COUNT category gives a complete breakdown of all deposits and cash payouts. It does this by offering specific counts on the number of each denomination bill that has been deposited, the number of each type of Tokenote® deposited, and the number of token coins, debit card approvals and quarters deposited. There is also a count of the number of quarters dispensed as change.

Clear Resettable Inventories

Clearing the RESETTABLE INVENTORIES has the effect of zeroing out all values and counts that have been accumulated since the last time these inventories were cleared. The categories affected are INVENTORY DEPOSITS, INVENTORY VENDING, INVENTORY OVERPAID, and AUDIT VAULT COUNT. The sequence number used in the OFFLINE mode is also reset. The NON-RESETTABLE categories remain unchanged. Refer to the PROGRAMMING section for details on how to clear the inventories.

CONFIGURATION OF AUDIT REPORT

| ****** | ****** | ***** | ***** | | | | | | | | | |
|--|------------|---|--------------------------------------|----------------------------|--|--|--|---------------------------------|---|-------------------|----------|--------|
| AUDIT REPORT Unit #1 THU 05-26-05 08:46 A | | Last cleared on THU 05-26-05 12:01 A | | | #2 Coupons #3 Coupons | 0 | 0 | | | | | |
| ******** | | PERPETUAL: | | | | #4 Coupons | Ō | 0 | | | | |
| | | | | | | , .L. | | | Hopper | 0 | 0 | |
| Item | Time | | Price | # Qty | Solo | Cash | Token | s Card | Cards | 0 | 0 | |
| 1 0 HOURS 15 MINUTES \$1.00 2 0 HOURS 30 MINUTES \$2.00 3 1 HOUR 0 MINUTES \$3.00 4 1 HOUR 30 MINUTES \$4.00 5 2 HOURS 0 MINUTES \$5.00 6 2 HOURS 30 MINUTES \$6.00 7 3 HOURS 0 MINUTES \$7.00 8 4 HOURS 0 MINUTES \$8.00 | | | 1 2 3 4 5 6 7 8 | 0 0 0 0 0 0 | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 | RECONCILI. THU 05. Currency Dep | ATION (-26-05 (************************************ | OF CUF 08:47 A | RENTCASH | |
| ******** | | | | To | tal | \$0.00 | \$0.00 | \$0.00 | less Dispense | ed | | \$0.00 |
| CASHIERS SALES DATA THU 05-26-05 08:46 A | | | Ove | rpaid | \$0.0 | 0 | | Net Coins \$0.0 | 00 | | | |
| | | ********* | | | Cashier Balan | ce \$ | 0.00 | | | | | |
| RESETTABLE: | | TRANSACTION SUMMARY THU 05-26-05 08:46 A | | | | | | | | | | |
| # Qty Sold Cash Tokens Card | | ********* | | | | End of Audit R | Report | | | | | |
| 2 0 9 | \$0.00 \$0 | 0.00 | \$0.00 \$0.00 | Trans | | n Res | ettable | Perpetual | | | | |
| | | | \$0.00 | \$20 | Bill | 0 | (|) | | | | |
| | | | \$0.00 | \$10 | Bill | 0 | (|) | | | | |
| | | | \$0.00 | \$5 E | 3ill | 0 | (|) | | | | |
| | | , | 00.08 | \$2 (| Coin | 0 | (|) | | | | |
| | 1 1 | | 00.00 | \$1 E | 3ill | 0 | (|) | | | | |
| 8 0 9 | \$0.00 \$0 | 0.00 | \$0.00 | \$1 (| Coin | 0 | (|) | | | | |
| Total | ቀለ ለለ ተ | 0.00 (| [†] Ω ΩΩ | Qua | arter | 0 | (|) | | | | |
| | | 0.00 | \$0.00 | Toker | n Coi | n 0 | (|) | | | | |
| Overpaid | \$0.00 | | | Toker | notes | 0 | (|) | | | | |

#1 Coupons

V. PROGRAMMABLE OPTIONS

The Pay & Display has a number of programmable options that can be used by the owner to customize the operation of the machine. These programmable options give the owner the ability to:

- Set the desired times and prices
- Program custom messages
- Program the amount of credit given for token coins and/or Hamilton Tokenotes®

The following is a description of all of the programmable options, in the order they will be encountered in the PROGRAMMING MODE. For information on how to program these options, refer to the PROGRAMMING section.

Token Coin Mode

There are two choices for the TOKEN COIN MODE, MULTIPLE CREDITS and SINGLE CREDIT. MULTIPLE CREDITS allows the customer to insert as many token coins as necessary to pay for the selection. The SINGLE CREDIT MODE, limits the customer to receiving credit for only one token coin per transaction. SINGLE CREDIT MODE is often used when token coins are distributed as a promotion to get customers to choose your parking lot for reduced parking lot rates. By only accepting one credit per customer, the customer will not be able to accumulate the promotional token coins and receive parking. In this mode, you will still be collecting some revenue on every parking loted.

Token Coin Value

This category is used to program the amount of credit given when a token coin is accepted by the Pay & Display. The value can be anything from \$0.00 to \$63.75 programmable in \$0.25 increments.

Tokenote® Mode

There are two choices for the TOKENOTE® MODE, MULTIPLE CREDITS and SINGLE CREDIT MODE. MULTIPLE CREDITS allows the customer to insert as many Tokenotes® as necessary to pay for the selection. The SINGLE CREDIT MODE, on the other hand, limits the customer to receiving credit for only one Tokenote® per transaction. SINGLE CREDIT MODE is often used when Tokenotes® are distributed as a promotion to get customers to choose your parking lot for reduced parking lot rates. By only accepting one credit per customer, the customer will not be able to accumulate the promotional Tokenotes® and receive free parking. In this mode, you will still be collecting some revenue on every parking loted.

Tokenote® Value

This category is used to program the amount of credit given when the validator accepts a Tokenote® trained without a Training Coupon. The value can be anything from \$0.00 to \$63.75 programmable in \$0.25 increments.

Coupon Mode

There are two choices for the Coupon Mode, Multiple Value and Single Value. Multiple Value allows the customer to have up to eight settable values per coupon. Single Value allows the customer to have a single value per coupon.

Tokenote Scenarios

Coupon Mode: Single Value Result: Multiple Coupons per Transaction and

Tokenote Mode: Multiple Credit Multiple Tokenote per Transaction

Coupon Mode: Single Value Result: 1 Coupon per Transaction or

Tokenote Mode: Single Credit 1 Tokenote per Transaction

Coupon Mode: Multiple Value Result: 1 Coupon per Transaction or

Tokenote Mode: Single Credit 1 Tokenote per Transaction

Coupon Mode: Multiple Value Result: 1 Coupon per Transaction and

Tokenote Mode: Multiple Credit Multiple Tokenote per Transaction

Single coupon mode equals one settable value per coupon.

Multiple coupon mode equals four settable values per coupon

Example: Single value coupon mode

Tokenote = 1.25

Coupon 1 = .25

Coupon 2 = .50

Coupon 3 = .75

Coupon 4 = 1.00

Example: Multiple value coupon mode

Tokenote: = 1.25

Coupon $2 = 6.00 \quad 0.00 \quad 0.00 \quad 0.00$

Coupon $3 = 1.00 \quad 1.00 \quad 1.00 \quad 1.00$

Coupon 4 = .75 .50 .25 0.00

Coupon Values

This category is used to program the amount of credit given when a Tokenote, trained with one of four Training Coupons (Coupon #1 -4), is accepted by the validator. If "Multiple" is selected in COUPON MODE, then each coupon can have a separate value for each of the eight selections that range from \$0.00 to \$63.75 programmable in \$0.25 increments. If "Single" is selected in COUPON MODE, then each coupon may have only one value.

Item Prices

This category is used to program the price of each of the eight selections available on the Pay & Display. The values can be anything from \$0.00 to \$63.75 programmable in \$0.25 increments.

Set Item Times

This category is used to set the amount of parking time for each of the eight selections. The times are set in hours and minutes up to a maximum value of 99 hours 59 minutes in increments of one minute.

Item Display

This category is used to select how the amount of parking time for each of the eight selections will be displayed. You can choose to display the time in Minutes, Hours (and decimal fractions), or Hours and Minutes. You can also choose to display a fixed text message such as All Day, All Night, or a custom text message that you create up to 20 characters.

Proceed Prompts

This category is used to select the sequencing messages that are seen after a customer makes a selection and completes the transaction. There are up to four sequencing Proceed Prompts possible. These four messages may be chosen from a list of pre-programmed messages or a custom message may be created. Up to eight different custom messages can be programmed. If a ninth custom message is attempted, it overwrites the first custom message programmed. Once a custom message is programmed, it will be listed along with the pre-programmed messages when scrolling through the available message choices. These custom messages can be deselected or overwritten, but never erased. If you do not wish to use all four messages, simply program the desired messages with the pre-programmed or custom messages and program the remaining messages with the "-NOT USED-" message located in the pre-programmed message list. This message will not appear on the screen. When this message is encountered in the message sequence, it automatically skips to the next message in the sequence without any time delay.

Proceed Prompts Example: To guide a customer through a transaction, the following messages may be selected:

PROCEED MESSAGE #1 "THANK YOU"

PROCEED MESSAGE #2 "PLEASE DRIVE AHEAD"

PROCEED MESSAGE #3 "-NOT USED-"

PROCEED MESSAGE #4 "-NOT USED-"

Welcome Prompts

This category is used to select the sequencing messages that are seen when a customer first pulls up to the Pay & Display. There are up to four sequencing Welcome Messages possible. These four messages may be chosen from a list of pre-programmed messages or a custom message may be created. Up to eight different custom

messages can be programmed. If a ninth custom message is attempted, it overwrites the first custom message programmed. Once a custom message is programmed, it will be listed along with the pre-programmed messages when scrolling through the available message choices. These custom messages can be deselected or overwritten, but never erased. If you do not wish to use all four messages, simply program the desired messages with the pre-programmed or custom messages and program the remaining messages with the "-NOT USED-" message located in the pre-programmed message list. This message will not appear on the screen. When this message is encountered in the message sequence, it automatically skips to the next message in the sequence without any time delay.

Welcome Prompts Example: To guide a customer through a transaction, the following messages may be selected:

```
WELCOME MESSAGE #1 "WELCOME"
WELCOME MESSAGE #2 "SELECT ITEM PLEASE"
WELCOME MESSAGE #3 "OR DEPOSIT MONEY"
WELCOME MESSAGE #4 "-NOT USED-"
```

Ext Display Messages

This category is used to program up to four personalized External Display messages. The messages displayed are divided into two halves.

Set Date & Time

This category is used to program the current day, date and time. The time is programmed similar to the following example:

The day is selected followed by the month, date, and year, then the hour and minute, and finally the AM/PM specification.

Set Empty Mode

This category is used to program how the Pay & Display will respond when the hopper runs out of coins. There are two choices, OUT OF SERVICE and USE EXACT AMOUNT. If OUT OF SERVICE is selected and the hopper goes empty, the display will stop showing the Welcome Messages and instead show the sequencing messages "OUT OF SERVICE" and "HOPPER EMPTY". When this occurs, the bill acceptor and coin acceptors will be deactivated so no further transactions can occur until the hopper is filled with coins. If USE EXACT AMOUNT is selected and the hopper goes empty, the bill acceptor and coin acceptors will remain activated and the display will stop showing the Welcome Messages and instead show the sequencing messages "USE EXACT AMOUNT" and "NO CHANGE RETURNED". In this mode, it is possible to continue performing transactions even though the hopper is empty since the customer is being notified that no change will be returned and the exact amount must be deposited.

Set Hopper Contents

This category is used to set the type of coin being dispensed from the hopper. It can be quarters, \$1 coins or \$2 coins.

Set Build Mode

This category is used to enable or disable the Cash Buildup Limit feature. The two choices are LIMIT DISABLED and LIMIT ENABLED. If LIMIT DISABLED is selected, a customer is able to build up credit indefinitely by continuing to deposit money. This can be undesirable if the customer is using the Pay & Display as a changer that will deplete the hopper contents more rapidly than expected. However, if LIMIT ENABLED is selected, the maximum amount of cash buildup is limited by the price of the most expensive selection. This is accomplished by constantly comparing the amount of credit deposited and the four programmed selection prices. As soon as the credit amount is equal to or greater than the most expensive selection price, the Pay & Display deactivates the bill acceptor and coin acceptors so that no further deposits can be made until a time is selected.

Set Pay Default

This mode is used when a fault is detected in one of the payment devices, such as the validator or one of the coin acceptors. There are two options to choose from in this mode, USE ALT PAYMENT or OUT OF SERVICE. If a fault has been detected and the default payment mode is set to OUT OF SERVICE, the ACW will shut itself down until the error has been corrected. However, if the default payment mode is set to USE ALT PAYMENT, the ACW can continue operating, even if there is a fault in one or more of its payment devices. The display will give examples for payment methods that will be accepted. If all payment options are determined to be faulty, the machine will shutdown, displaying an error message for the last device to have a problem.

Set Button Mapping

This category allows you to rearrange the order of the selection buttons, or disable them. The default setting is that the number one selection button is for the number one item time.

Ticket Headers

This category allows for customizing the two 75 character lines of text that are printed at the top of every ticket. Because the display can only show 20 characters at a time the programming for each line is broken up into four quarters. The fourth quarter only allows the first 15 characters to be programmed. Each quarter of each message line can be set to either customizable text or "-NOT USED-".

Ticket Footers

This category allows for customizing the four 75 character lines of text that are printed at the bottom of every ticket. Because the display can only show 20 characters at a time the programming for each line is broken up into four quarters. The fourth quarter only allows the first 15 characters to be programmed. Each quarter of each message line can be set to either customizable text or "-NOT USED-".

Set Unit Number

This category allows you to set a unique number from 1-9, which appears on the Audit Report.

Set Welcome Delay

This category is used to set the verbal welcome greeting to be delayed from 0 to 30 seconds. This allows a customer time to completely drive up to the ACW and open their window before the welcome greeting begins speaking.

Vend Duration

This category is used to program the length of time that the Pay & Display turns on its vend relay. The vend relay is used to signal an optional gate or traffic light at the end of any transaction. The possible time values range from 0.1 - 9.9 seconds.

Set Proceed Time

This category is used to program the length of time that the Autocashier prompts a customer to proceed, after the customer has completed a transaction. After this time delay the Autocashier returns to sequencing through the Welcome Prompts and gets ready for the next customer. The possible time values range from 0.1 - 9.9 seconds. However, the Proceed Time must always be greater than or equal to the Vend Duration. So the minimum value you can set the Proceed Time to will depend on the setting of the Vend Duration.

<u>VI. PROGRAMMING</u>

The Pay & Display comes pre-programmed from the factory. However, you may decide to program the Pay & Display to meet your individual needs. **DO NOT program a category that you do not fully understand!**Refer to the Programmable Options section of this manual for a complete explanation of each category's function.

- ☐ In order to program the Pay & Display, begin at the Welcome Prompt, then follow the steps below:
 - 1. Open the machine, and locate the controller on the lower inside left hand cabinet wall. Push the top and bottom buttons simultaneously for about 3-5 seconds to enter the programming mode.
 - 2. To begin programming, you must use the selection buttons and the refund button located on the door. (Refer to Diagram 6-1)
 - For ease of reference, the top yellow select button will be #1. The second down will be #2, the third will be #3 and the bottom will be known as #4. Despite any changes to button order you may have programmed, this is how they will be referred to in this manual.

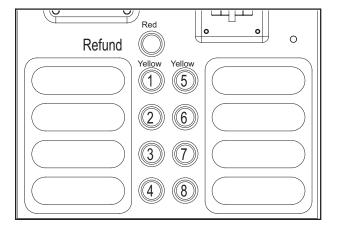


Diagram 6-1

• The #2 button is always used as a scroll button. The #4 button is always used to enter a category. The #1 button is used to save options and exit that category. The refund button is used to exit the programming mode.

Note: After three minutes of inactivity in programming mode, the machine will automatically return to "normal" mode to prevent from being accidentally left in the programing mode after completion.

3. The categories and specific programming instructions begin below and are listed in order as the appear in the menu.

INVENTORY DEPOSITS?

To view the current Inventory Deposits:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

CASH = TOKENS = CARDS =

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

INVENTORY VENDING?

To view the current Inventory Vending:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the option:

VND 1 CNT (count) VND 1 CSH (cash) VND 1 TOK (token) VND 1 DEB (debit) VND 2 CNT VND 2 CSH VND 2 TOK VND 2 DEB VND 3 CNT VND 3 CSH VND 3 TOK VND 3 DEB VND 4 CNT VND 4 CSH VND 4 TOK VND 4 DEB VND 5 CNT VND 5 CSH VND 5 TOK VND 5 DEB VND 6 CNT VND 6 CSH VND 6 TOK VND 6 DEB VND 7 CNT VND 7 CSH VND 7 TOK VND 7 DEB VND 8 CNT VND 8 CSH VND 8 TOK

VND 8 DEB

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

INVENTORY OVERPAID?

To view the current Inventory Overpaid:

- Press the #4 select button to enter the category.
- The display will read:

OVERPAID \$

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

AUDIT VAULT COUNT?

To view the current Audit Vault Count:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

```
$20 BILL CNT
$10 BILL CNT
$5 BILL CNT
$5 BILL CNT
$2 COIN CNT
$1 BILL CNT
$1 COIN CNT
QUARTER CNT
TOKEN CNT
TOKENOTE CNT
COUPON 1 CNT
COUPON 2 CNT
COUPON 3 CNT
COUPON 4 CNT
CARD CNT
HOPPER CNT
```

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

To clear all the resettable inventory categories:

Note: Clearing memory clears ALL resettable inventory categories at once.

- Enter a resettable inventory category, such as INVENTORY DEPOSITS?, by pressing the #4 select button.
- Press the #2 and #3 select buttons simultaneously for about five seconds.
- The display will show the sequencing messages:

ACTION TO CLEAR OR RETURN TO ABORT

• Pressing the #4 select button will now clear the memory, and the display will then read:

MEMORY CLEARED!

- Or to abort, press the #1 select button. You will then be returned to the menu mode.
- Press the #2 button to scroll to the next category, or press the #4 button to exit the programming mode.

PRINT AUDIT REPORT?

- Press the #4 select button to enter category.
- The display will read:

TO RECEIPT PRINTER

• Press the #4 button and the display will read:

PRINTING REPORT!

- Upon completion, press the #1 button to return to the menu options.
- Press the #2 button to scroll to the next category.

PRINT CONFIGURATION REPORT?

- Press the #4 select button to enter category.
- The display will read:

TO RECEIPT PRINTER

• Press the #4 button and the display will read:

PRINTING REPORT!

- Upon completion, press the #1 button to return to the menu options.
- Press the #2 button to scroll to the next category.

TOKEN COIN MODE?

To set the Token Coin Mode:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

SINGLE CREDIT MODE MULTIPLE CREDITS

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

TOKEN COIN VALUE?

To set the Token Coin Value:

- Press the #4 select button to enter the category.
- The display will read:

TOKEN COIN =

- The amount can be set from \$0.00 to \$63.75.
- Press the #2 button to increase the amount in \$.25 increments.
- Pressing the #3 button will decrease the amount in \$.25 increments.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

TOKENOTE MODE?

To set the Tokenote Mode:

• Press the #4 select button to enter the category.

• Press the #2 button to scroll between the options:

MULTIPLE CREDITS SINGLE CREDIT MODE

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

TOKENOTE VALUE?

To set the Tokenote Value:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

TOKENOTE=

- The amount can be set from \$0.00 to \$63.75.
- Press the #2 button to increase the amount in \$.25 increments.
- Pressing the #3 button will decrease the amount in \$.25 increments.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

COUPON MODE?

To set the Coupon Mode:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

SINGLE VALUE MODE MULTIPLE VALUE MODE

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

COUPON VALUES?

To set the Coupon Values in "Single Coupon Mode":

• Press the #4 select button to enter the category.

SET COUPON 1 VALUE

COUPON 1 =

- The amount can be set from \$0.00 to \$63.75.
- Press the #2 button to increase the amount in \$.25 increments.
- Pressing the #3 button will decrease the amount in \$.25 increments.
- Press the #1 button to save.
- Press the #2 button to go to the next coupon value.
- Each coupon may be programmed for a single value for each selection.
- When finished programming desired amounts, press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

To set the Coupon Values in "Multiple Coupon Mode":

• Press the #4 select button to enter the category.

SET COUPON 1 VALUE

ITEM 1 =

ITEM 2 =

ITEM 3 = ITEM 4 = ITEM 5 = ITEM 6 = ITEM 7 = ITEM 8 =

- The amount can be set from \$0.00 to \$63.75.
- Press the #2 button to increase the amount in \$.25 increments.
- Pressing the #3 button will decrease the amount in \$.25 increments.
- Each coupon may be programmed with a different value for each selection. If you want the coupon to have the same value for each selection, simply program all the selections to have the same value for that coupon.
- Press the #4 button to scroll to the next item.
- Press the #1 button to save.
- Press the #2 button to go to the next coupon value.
- When finished programming desired amounts, press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

ITEM PRICES?

To set the Prices:

Press the #4 select button to enter the category.

ITEM 1=

ITEM 2=

ITEM 3=

ITEM 4=

ITEM 5 =

ITEM 6 =

ITEM 7 =

ITEM 8 =

- The amount can be set from \$0.00 to \$63.75.
- Press the #2 button to increase the amount in \$.25 increments.
- Pressing the #3 button will decrease the amount in \$.25 increments.
- To continue programming Item 2 through Item 4, press the #4 button to select the Item Price and then use the #2 or #3 buttons to program the amount.
- When finished programming desired amounts, press the #1 button to save the selection and exit the category.
- Press the #2 button to scroll to the next category.

SET ITEM TIMES?

To set the item times:

- Press the #4 button to enter the category.
- The display will read:

ITEM 1 00 HRS 15 MIN

- The cursor will be a flashing block.
- Press the #2 button to change the item number to be modified.

- Press the #4 button to move the cursor to Hours.
- Press the #2 button to increase the number of hours by one.
- Pressing the #3 button will decrease the number of hours by one.
- Press the #4 button to move the cursor to Minutes.
- Press the #2 button to increase the number of minutes by one.
- Pressing the #3 button will decrease the number of minutes by one.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

ITEM DISPLAY?

To set the item times:

- Press the #4 button to enter the category.
- The display will briefly read:

ITEM 1 DISPLAY

- Then the display will show how the time for selection #1 will be displayed.
- Press the #2 button to scroll forward through the display choices.
- Pressing the #3 button will scroll backward through the choices.
- Press the #4 button to advance to the next item.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

PROCEED PROMPTS?

To set the Proceed Prompts:

- Press the #4 select button to enter the category.
- Use the select button #2 to scroll through the Proceed Messages 1-4

PROCEED MESSAGE #1 PROCEED MESSAGE #2 PROCEED MESSAGE #3 PROCEED MESSAGE #4

- Press button #4 to select the Message numbers to be programmed.
- Press button #2 to then scroll through the six pre-programmed messages and the one "NOT USED" message.
- Press the #1 select button to select a message.
- You may also program eight custom messages.

To begin programming a **custom message**:

- 1. You must first be on a custom message screen which appears blank.
- 2. Hold button #4 to make the cursor appear.
- 3. Use button #2 to scroll to desired letters or punctuation. Button #3 will scroll through letters and punctuation in the opposite direction.
- 4. Button #4 moves to the next space.
- 5. When you have completed your message, push button #1 to save it into memory and select it as the message to be displayed.
- 6. Press the #4 button to check

• To scroll to the next Proceed Message number, press the #4 button.

- Press the #2 button to scroll through the options.
- Press #1 to select or repeat steps 1-6 for custom messages.
- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

WELCOME PROMPTS?

To set the Welcome Prompts:

- Press the #4 select button to enter the category.
- Use the select button #2 to scroll through the Welcome Messages 1-4

WELCOME MESSAGE #1
WELCOME MESSAGE #2
WELCOME MESSAGE #3
WELCOME MESSAGE #4

- Press button #4 to select the Message numbers to be programmed.
- Press button #2 to then scroll through the 18 pre-programmed messages and the one "NOT USED" message or use the Time & Date stamp.
- Press the #1 select button to select a message.
- You may also program eight custom messages.

To begin programming a **custom message**:

- 1. You must first be on a custom message screen which appears blank.
- 2. Hold button #4 to make the cursor appear.
- 3. Use button #2 to scroll to desired letters or punctuation. Button #3 will scroll through letters and punctuation in the opposite direction.
- 4. Button #4 moves to the next space.
- 5. When you have completed your message, push button #1 to save it into memory and select it as the message to be displayed.
- 6. Press the #4 button to check.
- To scroll to the next Welcome Prompt Message number, press the #4 button.
- Press the #2 button to scroll through the options.
- Press #1 to select or repeat steps 1-6 for custom messages.
- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

EXT DISPLAY MSGS?

To set the messages to appear on the External Display:

- Press the #4 select button to enter the category.
- The display will read:

MESSAGE #1 FIRST HALF

To begin programming this **custom message**:

- 1. You must first be on a custom message which appears blank.
- 2. Hold button #4 to make the cursor appear.
- 3. Use button #2 to scroll to desired letters or punctuation. Button #3 will scroll through letters and punctuation in the opposite direction.

- 4. Button #4 moves to the next space.
- 5. When you have completed your message, push button #1 to save it into memory and select it as the message to be displayed.
- To scroll to the next message half, press the #4 button.
- Repeat steps 1-6 for custom messages or press #2 to scroll to the "NOT USED" message.
- Press the #1 button to exit the category
- Press the #2 button to scroll to the next category.

SET DATE & TIME?

To set the Date & Time:

- Press the #4 select button to enter the category.
- The cursor will be flashing.
- Press the #2 button to change the day.
- Press the #4 button to go to the month.
- Press the #2 button to change the month.
- Press the #4 button to go to the year.
- Press the #2 button to change the year.
- Press the #4 button to go to the hour.
- Press the #2 button to change the hour.
- Press the #4 button to go to the minute.
- Press the #2 button to change the minute.
- Press the #4 button to go to the AM/PM.
- Press the #2 button to change AM/PM.
- Press the #1 button to set and exit the category.
- Press the #2 button to scroll to the next category.

SET EMPTY MODE?

To set the machines mode of operation when the hopper is empty:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

OUT OF SERVICE USE EXACT AMOUNT

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET HOPPER CONTENTS?

To set the Hopper Contents:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

QUARTERS \$1 COINS \$2 COINS

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET BUILD MODE?

To set the Build Mode:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

LIMIT ENABLED LIMIT DISABLED

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET PAY DEFAULT?

To set the machines mode of operation when a money acceptor is faulty:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

USE ALT PAYMENT OUT OF SERVICE

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET BUTTON MAPPING?

To set the Button Order:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

```
BUTTON 1 = ITEM #1

ITEM #2

ITEM #3

ITEM #4

ITEM #5

ITEM #6

ITEM #7

ITEM #8

DISABLE
```

- Continue to program the #2 #8 selection buttons as well as the Refund Button to Enable or Disable.
- Press the #1 button to save your selection.
- Press the #2 button to scroll to the next category.

TICKET HEADERS?

To set the ticket headers:

- Press the #4 button to enter the category.
- The display will briefly read:

HDR #1 1ST QTR

- Then the display will show this message segment.
- Press the #2 button to scroll between "NOT USED" and custom message text.

To begin programming this custom message:

1. Press and hold button #4 until the cursor appears.

- 2. Use button #2 to scroll to desired letter or punctuation. Button #3 will scroll through letters and punctuation in the opposite direction.
- 3. Button #4 moves the cursor to the next space.
- 4. When you have completed your message, push button #1 to save it into memory.
- To scroll to the next message segment, press the #4 button.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

TICKET FOOTERS?

To set the ticket footers:

- Press the #4 button to enter the category.
- The display will briefly read:

FTR #1 1ST QTR

- Then the display will show this message segment.
- Press the #2 button to scroll between "NOT USED" and custom message text.

To begin programming this custom message:

- 1. Press and hold button #4 until the cursor appears.
- 2. Use button #2 to scroll to desired letter or punctuation. Button #3 will scroll through letters and punctuation in the opposite direction.
- 3. Button #4 moves the cursor to the next space.
- 4. When you have completed your message, push button #1 to save it into memory.
- To scroll to the next message segment, press the #4 button.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET UNIT NUMBER?

To designate the Unit Number:

- Press the #4 button to enter the category.
- Press the #2 button to scroll between the options:

UNIT #1
UNIT #2
UNIT #3
UNIT #4
UNIT #5
UNIT #6
UNIT #7
UNIT #8

UNIT #9

- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

SET WELCOME DELAY?

To set the Welcome Delay:

- Press the #4 select button to enter the category.
- Press the #2 button to increase, or the #3 button to decrease in one second increments between 0 and 30 seconds.
- Press the #1 button to save and exit the category.
- Press the #2 button to scroll to the next category.

VEND DURATION?

To set the Vend Duration:

- Press the #4 select button to enter the category.
- Press the #2 button to move in .1 second increments between .1 and 9.9 seconds.
- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

PROCEED TIME?

To set the Proceed Time:

- Press the #4 select button to enter the category.
- Press the #2 button to move in .1 second increments between .1 and 9.9 seconds.
- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

TOTAL DEPOSITS?

To view the Total Deposits:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

CASH = TOKENS = CARDS =

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

TOTAL VENDING?

To view the Total Vending:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the option:

VND 1 CNT VND 1 CSH VND 1 TOK VND 1 DEB VND 2 CNT VND 2 CSH VND 2 TOK VND 2 DEB VND 3 CNT VND 3 CSH VND 3 TOK VND 3 DEB VND 4 CNT VND 4 CSH VND 4 TOK VND 4 DEB VND 5 CNT VND 5 CSH VND 5 TOK VND 5 DEB VND 6 CNT VND 6 CSH VND 6 TOK VND 6 DEB VND 7 CNT VND 7 CSH VND 7 TOK VND 7 DEB VND 8 CNT VND 8 CSH VND 8 TOK VND 8 DEB

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

TOTAL OVERPAID?

To view the Total Overpaid:

- Press the #4 select button to enter the category.
- The display will read:

OVERPAID \$

- Press the #1 button to exit the category.
- Press the #2 button to scroll to the next category.

TOTAL VAULT COUNT?

To view the Total Vault Count:

- Press the #4 select button to enter the category.
- Press the #2 button to scroll between the options:

\$20 BILL CNT \$10 BILL CNT \$5 BILL CNT \$2 COIN CNT \$1 BILL CNT \$1 COIN CNT QUARTER CNT
TOKEN CNT
TOKENOTE CNT
COUPON 1 CNT
COUPON 2 CNT
COUPON 3 CNT
COUPON 4 CNT
CARD CNT
HOPPER CNT

• Press the #1 button to exit the category.

VII. MAINTENANCE

A few simple maintenance routines can extend the productivity of the Autocashier.

CAUTION! DO NOT USE OIL, GREASE OR SOLVENTS ON ANY PART OF THIS UNIT EXCEPT AS CLEARLY SPECIFIED IN THIS MANUAL, THE HOPPER, VALIDATOR, OR STACKER MANUAL.

MONTHLY MAINTENANCE

Hopper

The hopper should be cleaned at least every other month. To do so, please refer to the Hamilton HSH Hopper Operational Manual.

Validator

Please refer to the appropriate validator manual.

Stacker

Please refer to the appropriate manual.

ANNUAL MAINTENANCE

Hamilton Validators

The validator should be serviced annually to maintain maximum performance. This work should only be done by a trained technician.

Hamilton Stackers

- All pivot points must be cleaned and re-greased.
- Check the switch tightness and the cam to see if it is still in round.
- Check for bent, loose, worn, rusted or corroded parts.
- Check the motor for coasting.
- Use a small amount of Dry SlickTM on the slides. **Do not use grease or WD-40**TM.

VIII. ERROR CODES

The Pay & Display is equipped with a self-diagnostic capability that makes it possible for common problems to be quickly detected and serviced. When most errors occur, the controller will automatically shut down the entire unit as a precaution in order to prevent further malfunctions. When the Pay & Display shuts itself down after an error has been detected, it deactivates the bill acceptor and coin acceptors so that further deposits cannot be accepted. When this occurs, the display will read:

OUT OF SERVICE

It is necessary to troubleshoot and correct the problem before normal operation can resume. Shutting off power to the unit will not erase this error condition. **To resume normal operation, it is necessary to:**

- 1. Acknowledge that you have seen the error. To do this, press the YELLOW button on the controller. When this button is pressed the display will show the detected error. (Possible errors and their descriptions are covered later in this section.)
- 2. After making note of the error and correcting the problem, it is necessary to once again press the YELLOW button to return to normal operation. When this button is pressed the display will read:

ERROR ACKNOWLEDGED

3. The display will then return to the welcome prompt.

It is possible for the Pay & Display to detect an error and still remain operational. This occurs when the default payment mode has been set to "USE ALT PAYMENT" instead of "OUT OF SERVICE". In the "USE ALT PAYMENT" mode, the controller will only shut down the component that is malfunctioning. The controller will stop displaying the normal Welcome Messages and instead display the messages "PAYMENT OPTIONS…" and "USE BILLS ONLY" (depending on which payment options are available). When all the payment options have been exhausted, the Pay & Display will shut down and display an error message for the last component malfunction. When this occurs, follow the above steps to return to normal operation.

ERROR CODES

\$5 Input Stuck

When signaling that a \$5, \$10 or a \$20 bill has been accepted this line gets pulled low briefly. If the \$5 line should get pulled low for an extended period of time, this error will result and the machine will be shut down.

\$1 Input Stuck

When signaling that a \$1 bill has been accepted this line gets pulled low briefly. If the \$1 line should get pulled low for an extended period of time, this error will result and the machine will be shut down.

25¢ Input Stuck

When signaling that a quarter has been accepted this line gets pulled low briefly. If the Quarter line should get

pulled low for an extended period of time, this error will result and the machine will be shut down.

Token Input Stuck

When signaling that a token coin has been accepted this line gets pulled low briefly. If the Token line should get pulled low for an extended period of time, this error will result and the machine will be shut down.

Drop Switch Stuck

When signaling that a coin is being dispensed this line gets pulled high briefly. If the Drop line should get pulled high for an extended period of time, this error will result and the machine will be shut down. This situation is only tested during the time a payout is occurring.

Unexpected Coin Drop

When a coin is dispensed, the Drop line goes high briefly, then returns to its logic low state. If the controller records two unexpected coin drop signals while in standby, the machine will shut down with this error.

Hopper Coasting Error

If two coin drop signals are recorded immediately after the hopper has paid out, the machine will shut down with this error.

Hopper Time-out

When a coin is dispensed, the Drop line goes high briefly then returns to its logic low state. If during the time a payout is occurring a high pulse is not detected for 10 consecutive seconds this error will result and the machine will be shut down.

Stacker Time-out

The Busy line goes high during the bill stacking process then returns to its logic low state when the stacker reaches its home position. If the stacker never returns to its home position, this error will result and the machine will be shut down.

Multiple Power Int

There is special circuitry inside the controller to determine if a power outage has occurred. If there are several power outages while processing money (dispensing coins, stacking bills, etc.) this error will occur and the machine will be shut down.

Memory Data Altered!

There are special detection routines built into the Controller's program that can determine if its memory has been corrupted. If the memory is corrupted, values such as selection prices and the audits can no longer be trusted. If this should occur, the entire memory is cleared and the machine will be shut down. Reprogramming the controller will be necessary since all settings will default to the lowest possible denomination (\$0.00) for credits and the highest possible denomination (\$63.75) for any payment option. This default mechanism is used as a safeguard to ensure that the machine does not give away free parking.

Out Of Paper

When the Receipt Printer detects that it is out of paper the machine will shut down with this error.

Printer Error

When the Receipt Printer detects a fault other than out of paper the machine will shut down with this error.

The following errors will be displayed as long as the faulty condition exists, but will be cleared as soon as the condition is corrected. THIS MEANS THESE ERRORS DO NOT NEED TO BE ACKNOWLEDGED BY PRESSING THE YELLOW BUTTON.

Hopper Empty

When there are not enough coins to make a connection from the bottom of the hopper up to the two coin sensing plates in the hopper bowl, the Empty line goes high. When this happens, the Hopper Empty error will result. Refilling the hopper with coins will automatically clear this error.

Release Button

When one of the item selection buttons is held in for an extended period of time this message will appear on the display. Releasing the button should automatically clear this error. If the error does not clear, however, it could indicate the REFUND button is broken or stuck. Dislodge or replace the button to remedy this error. If the error still does not clear, there may be damage to the CPU, in which case you should contact the Hamilton Customer Service Department for assistance.

IX. TROUBLESHOOTING

In addition to the self-diagnostic error codes, there are other possibilities that could arise in the installation or at some point during the extended operation of your Pay & Display. This section provides a general trouble-shooting guide, broken down into categories of symptoms.

Money Acceptance

| SITUATION | PROBABLE CAUSE | CORRECTIONS |
|---|---|--|
| Cannot activate refund | A. In "USE EXACT AMOUNT" mode | A. Fill coin Hopper or change mode to "OUT OF SERVICE" |
| Credit is showing on display | B. Selection buttons are not working | B. Replace button |
| uissiav | C. CPU input is missing | C. Contact the factory for assistance |
| Accepts fee, but car wash does not start "DRIVE AHEAD" or | Observe the VEND RELAYS and see below | Observe the VEND RELAYS and see below |
| similar message shown on ACW Display | | |
| IF THE RELAY ACTIVATES | A. Duration of relay closure is too long or too short for wash equipment to recognize B. Wash equipment is not accepting signal from ACW C. Broken connection in wiring | A. Reprogram "VEND DURATION" setting in ACW Controller B. Refer to the car wash manual C. Locate and repair connection |
| | between ACW and wash equipment | C. Locate and repair connection |
| IF RELAY DOES NOT ACTIVATE | A. Vend relay is loose or defective B. Broken connection in wiring between ACW Controller and relay panel | A. Reinstall or replace relay B. Locate and repair connection |
| | C. Output missing from Controller | C. Contact the factory for assistance |
| One Coin Acceptor does not accept coins | Broken connection on power wires to Coin Acceptor | A. Locate and repair connection |
| | B. Coin Acceptor sensitivity is too high C. Coin Acceptor is defective | B. Adjust sensitivity C. Replace Coin Acceptor |

Document #101-0132 45 10/17/06

Money Acceptance (Continued)

| | - | _ |
|--|--|--|
| SITUATION | PROBABLE CAUSE | CORRECTIONS |
| Both Coin Acceptors do not accept coins | A. Broken connection on either the power wires supplying the Transformer, or the wires from the Transformer to the Coin Acceptor | A. Locate and repair connection |
| Validator does accept bills | B. Transformer not working | B. Replace Transformer |
| J | C. Both Coin Acceptors are defective | C. Replace Coin Acceptors |
| Both Coin Acceptors do not accept coins | A. Controller is either OUT OF SERVICE, in PROGRAMMING MODE or TRANSMITTING DATA | A. Place Controller in normal operating mode |
| Validator is disabled | B. Broken connection on ENABLE wire which runs from the Controller to the Validator and Transformer | B. Locate and repair connection |
| | C. ENABLE output missing from Controller | C. Contact the factory for assistance |
| Coin Acceptor accepts only some coins | A. Coins being used are of poor quality | A. Use a different coin sample |
| Some coms | B. Coin Acceptor sensitivity too high | B. Adjust sensitivity |
| | C. Loose connection to Coin Acceptor | C. Locate and repair connection |
| Validator disabled (Refer to appropriate manual) | A. Broken connection on ENABLE wire from Controller to Validator | A. Locate and repair connection |
| Coin Acceptor is working | B . Validator ENABLE circuit changed | B. Contact the factory for assistance |
| Validator dead (No LED lit on Validator) | A. Broken connection on power wires to Validator | A. Locate and repair connection |
| Coin Acceptor is working | B. Validator is defective | B. Contact the factory for assistance |
| Validator dead (LED lit, but not displaying error code) | A. Dirty or blocked sensor inside Validator | A. Remove obstruction or clean sensors |
| Coin Acceptor is working | B. Blocked bill path (will not allow insertion) | B. Remove obstruction |
| | C. Validator drive train problems | C. Contact the factory for assistance |
| | D . Validator PCB damaged | D. Contact the factory for assistance |

Money Acceptance (Continued)

| SITUATION | PROBABLE CAUSE | CORRECTIONS |
|---|---|---|
| Validator dead (LED flashing error code) | Error detected by Validator PCB | Refer to the Validator Manual for Validator error codes |
| Validator runs without inserting a bill | Dirty blocked sensor inside Validator | Remove obstruction or clean sensors |
| Validator rejects too many bills or all bills (bill goes in and comes back out) | A. Dirty sensor, magnetic heads or rollers | Clean as needed or contact the factory for assistance |
| , | B. Validator requires service | Contact the factory for assistance |
| Validator accepts bills | A. Bill stuck completely or partially in Validator | A. Determine cause of jam and remove bill from Validator (Refer to the Validator Manual), or Contact the factory for assistance |
| Does not give credit | B. Error detected | B. Refer to the Validator Manual or contact the factory for assistance |
| | C. Broken connection on vend wires between Validator and Controller | C. Locate and repair connection |
| | D. Controller CPU missing input | D. Contact the factory for assistance |

Hopper

| SITUATION | PROBABLE CAUSE | CORRECTION |
|--|---|---|
| Overpayment of change | A. Wash prices set incorrectlyB. Hopper not counting coins | A. Check wash prices B. Perform HOPPER PAYOUT TEST (Refer to the Hopper Manual) |
| Hopper does not runHopper does not pay back change | A. Coin or foreign material lodged in Hopper B. Broken connection in wire between Controller and Hopper motor C. Output missing from Controller | A. Clear obstruction in Hopper B. Locate and repair connection C. Contact the factory for assistance |
| Hopper runs slowly | A. Foreign material in Hopper B. Output weak from Controller | A. Remove foreign material B. Contact the factory for assistance |
| Underpayment of change Controller does not go into "OUT OF SERVICE" | A. Wash prices set incorrectlyB. Coins fall back into Hopper after countingC. CPU misreads coin count | A. Check wash prices B. Perform HOPPER PAYOUT TEST (Refer to the Hopper Manual) C. Contact the factory for assistance |
| Underpayment of change Controller does go into "OUT OF SERVICE" | Error detected by Controller (See ERROR CODES) | Correct malfunction, acknowledge error |

Display

| SITUATION | PROBABLE CAUSE | CORRECTIONS |
|---|---|---|
| Display is blankNo manual Hopper run | A. No power source B. Circuit Breaker is set to off | A. Switch on main power B. Switch on Circuit Breaker |
| No functionsNo LED on Validator | | |
| Display is always blank Hopper runs using manual switch located on bottom rear of Hopper | Controller display problems | Contact the factory for assistance |
| Display is blank until button is pushed or credit is deposited | Welcome Messages are not programmed | Program Welcome messages |
| Display reads "OUT OF SERVICE" alternating to "HOPPER EMPTY", or display reads "USE EXACT AMOUNT" alternating to "NO CHANGE | A. Coin Hopper is emptyB. Sensors are dirtyC. Loose connection on Empty Circuit | A. Refill Hopper B. Clean Sensors (See MAINTENANCE section) C. Locate and repair the connection |
| Display reads "OUT OF SERVICE" | Error detected by Controller (See Error Codes) | Correct malfunction, acknowledge error |
| Display reads "RELEASE BUTTON" | A. Refund Button or contact block is stuck B. Damage to CPU | A. Dislodge stuck button or contact blockB. Contact the factory for assistance |

Voice

| SITUATION | PROBABLE CAUSE | CORRECTIONS |
|---|---|---|
| Welcome greeting is not activated | Proximity Sensor is malfunctioning | Clean sensor |
| Other messages working properly | | |
| No voice messages are activated | A. Volume is too lowB. Loose connections | A. Turn up volume B. Check harness connections to speaker |

X. PARTS

The following is a list of parts for the Pay & Display, which may be ordered from your Hamilton Distributor.

| PART # | DESCRIPTION | QTY. |
|----------|---------------------------------------|------|
| 05-0002 | ASSM, LCD DISPLAY | 1 |
| 05-0008 | ASSM, DISPLAY 2 LINE VFD (ALTERNATE) | 1 |
| 11-0101 | ACW HOPPER ASSM. | 1 |
| 47-0300 | 110VAC RELAY | 3 |
| 47-0301 | 24VAC RELAY | 0 |
| 47-0302 | 24VDC RELAY | 0 |
| 49-4000A | DISTRIBUTION PANEL COMPLETE | 1 |
| 49-9431 | CONTROLLER | 1 |
| 49-9401 | YELLOW BUTTON | 8 |
| 49-9373 | RED BUTTON | 1 |
| 49-9376 | PRINTER PAPER (OPTIONAL) | 1 |
| 60-2012A | POWER SUPPLY ASSM. | 1 |
| 60-2027A | VOICE SENSOR ASSM. | 1 |
| 60-2030A | ENVIRONMENTAL CONTROLLER ASSM. | 1 |
| 60-2031A | VOICE MODULE ASSM. | 1 |
| 60-2032H | 110VAC RELAY BOX ASSM. | 1 |
| 60-2039B | EIC ASSM. | 1 |
| 05-0009 | LTPF PRINTER ASSM. | 1 |
| 60-2058A | ASSM., ACW G/L CARD READER (OPTIONAL) | 1 |
| 63-5005 | LOCK PAIR | 1 |
| 63-5040 | LOCK CRANK | 1 |

Interchanging Validators

To replace an existing validator with a Coinco® Validator, the following parts are needed. The Coinco® mounting kit is part #60-2103B. Please note the Coinco® Validator (part #46-0169) is not included in the kit and must be ordered separately.

| Part # | Description | Qty |
|---------|---------------------------------------|-----|
| 60-2053 | Security Bracket | 1 |
| 90-0145 | #8-32 X 5/8 Phillips Head Screw | 4 |
| 90-0331 | #1/4-20 Hex Nut | 4 |
| 90-0403 | #1/4 Internal Lock Washer | 4 |
| 60-2051 | U-Channel | 1 |
| 90-0629 | #10-32 x 1/2 Thumb Screw | 1 |
| 60-2050 | Validator Plate | 1 |
| 90-0321 | #8-32 Nylon Nut | 4 |
| 60-2054 | Slider | 1 |
| 90-0517 | #8-32 x 5/8 Ball Stud | 4 |
| 90-0628 | #10-32 x 3/16 Phillister | 4 |
| 46-0169 | Validator Coinco 24v | 1 |
| 48-3044 | ACW G/L Coinco 24v cable | 1 |
| 48-3046 | ACW G/L 3 rd Party Stacker | 1 |

To replace an existing validator with a Mars® Validator, the following parts are needed. The Mars® mounting kit is part #60-2104B. Please note the Mars® Validator (part #46-0201) is not included in the kit and must be ordered separately.

| Part # | Description | Qty |
|---------|---------------------------------------|-----|
| 60-2055 | Security Bracket | 1 |
| 90-0145 | #8-32 x 5/8 Phillips Head Screw | 4 |
| 90-0331 | #1/4-20 Hex Nut | 4 |
| 90-0403 | #1/4 Internal Lock Washer | 4 |
| 60-2051 | U-Channel | 1 |
| 90-0629 | #10-32 x ½ Thumb Screw | 1 |
| 60-2050 | Validator Plate | 1 |
| 90-0321 | #8-32 Nylon | 4 |
| 60-2052 | UVM Slider | 1 |
| 90-0517 | #8-32 x 5/8 Ball Stud | 4 |
| 90-0628 | #10-32 x 3/16 Phillister Head | 4 |
| 46-0201 | Validator Mars 24v | 1 |
| 48-3043 | ACW G/L Mars 24v cable | 1 |
| 48-3046 | ACW G/L 3 rd Party Stacker | 1 |

<u>XI. RECEIPT PRINTER</u>

Safety Precautions

The motor is hot immediately after printing. Allow cooling before handling.

The edge of the mechanism is sharp, use caution when handling.

Inserting Paper

Loading Paper

1. Open platen by lifting blue lever on right side of printer. (Be sure to hold platen to prevent it from swinging down when released.)



Figure 11-1

Figure 11-2

2. Remove printer rod and place in center of paper roll and replace on platen.

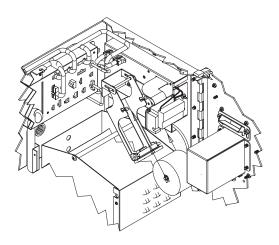


Figure 11-3

3. Unroll about 4 inches of paper and center on roller and close the platen by rotating it upward and sliding it back until it snaps into position.

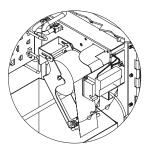


Figure 11-4

4. Push button to ensure straight feed and tear off by pulling down on excess.

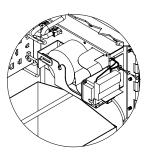


Figure 11-5

Clearing a Paper Jam in the Autocutter

If the cutter has been locked during paper cutting, power off the motor immediately and cancel the lock by performing the following procedures manually:

1. Tear transparent film from the upper surface of the autocutter (figure 11-6A), turn the knob in the direction shown in figure 11-6B until the entire hole of the warm wheel can be seen from the standby position confirmation window and retreat the moveable blade. (Figure 11-6B)

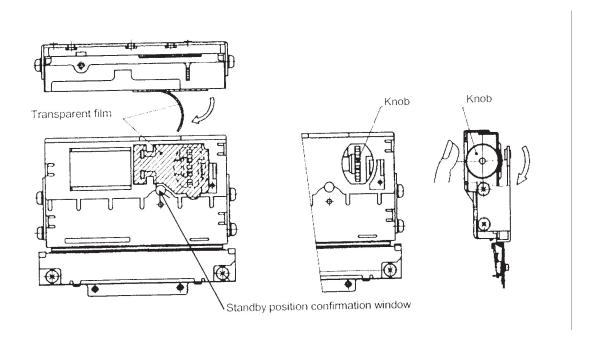


Figure 11-6

Head Cleaning Precautions and Procedure

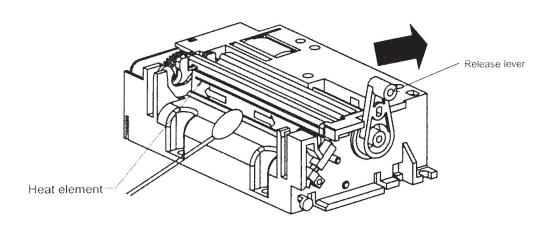
Cleaning Precautions

- 1. Do not clean the head directly after printing because the thermal head and its periphery are hot during and after printing.
- 2. Do not use sandpaper, paper knife etc. when cleaning as it could damage the heat elements.

Cleaning Procedure:

- 1. Turn over the lever to the direction of the arrow in figure 11-7. Pull up the platen after making sure that the platen is released from the lever. (Open state)
- 2. Clean the heat elements with a cotton swab immersed in ethyl alcohol or isopropyl alcohol.
- 3. After the alcohol has completely dried, close the platen. (Closed state)

Figure 11-7



THERMAL PAPER SPECIFICATIONS

Model

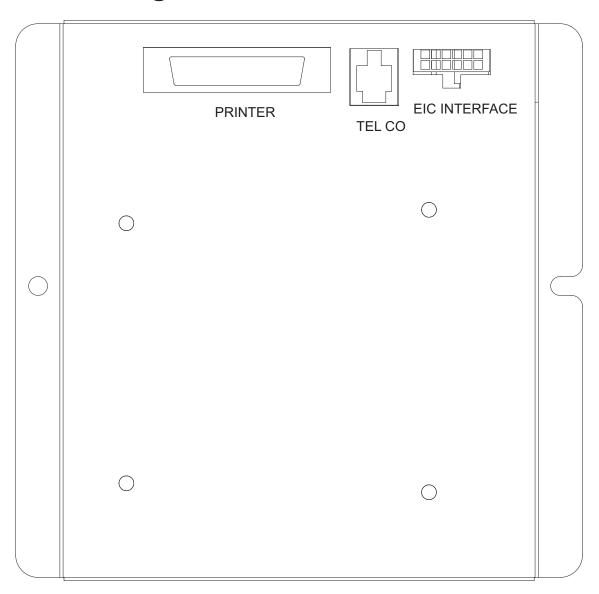
TF50KS-E2C: Normal thermal paper PD160R-N: Medium proof paper HP220AB1: Medium proof paper

• 58 -1 mm Paper width

<u>XII. EIC COMMUNICATION PANEL</u>

The External Interface controller contains a 386 processor and modem, which is used for processing credit card transactions. The EIC allows communication with external equipment. See Figures 12-1 and 12-2.





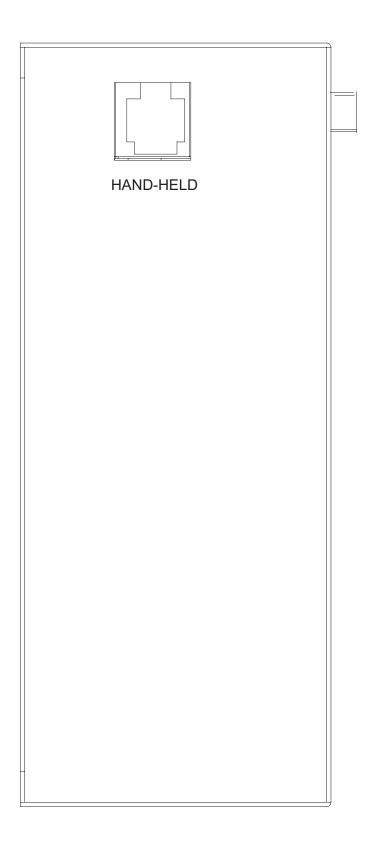
PRINTER: Optional parallel port printer to print credit reports.

TELCO: Outside telephone line. Connect to a dedicated telephone line for credit card processing and

remote maintenance.

EIC Interface: This connects to P10 on the distribution panel.

Figure 12-2 EIC Left Side View



XIII. TOKENOTES®

A Tokenote® is a paper coupon that can be accepted by the Hamilton Validator. It is intended to give credit towards the selection price and not as a substitute for cash. Because of this, change will not be dispensed if the value of a Tokenote® exceeds the selection price. Likewise, the value of a Tokenote® cannot be refunded in cash.

It is important to realize that accepted Tokenotes® will issue a programmable amount of credit good towards all selections. Tokenote® use cannot be limited to a specific selection or subset of selections.

These must be specially ordered from Hamilton Mfg. or your Hamilton Distributor.

When programming your machine to accept Tokenotes®, refer to the options listed below to help you decide which programming method to use.

Programming One or More Tokenotes® with the Same Value

PROGRAMMING THE STA VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 8 DIP switches to the OFF position. Then, starting with switch #8, slowly move the switches to the ON position, one switch at a time and in descending order (8, 7, 6, 5...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. At this point, it is recommended to insert the CLEAR ALL Training Coupon, especially if this is the first time the validator is being programmed or if it has just been returned after being serviced. The CLEAR ALL Coupon will erase all previously trained Tokenotes® from the validator's memory but will not affect the controller's memory.
- 5. Insert one coded Tokenote® into the validator, making sure that it is accepted.
- 6. Repeat step 5 for each uniquely coded Tokenote® you wish to program. (Make sure that each Tokenote® is equal in value.) Up to 15 different codes can be programmed.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED. Switch #2 must be in the OFF position in order to accept Tokenotes®.

Document #101-0132 58 10/17/06

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 10 DIP switches to the OFF position. Then, starting with switch #10, slowly move the switches to the ON position, one switch at a time and in descending order (10, 9, 8, 7...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. At this point, it is recommended to insert the CLEAR ALL Training Coupon, especially if this is the first time the validator is being programmed or if it has just been returned after being serviced. The CLEAR ALL Coupon will erase all previously trained Tokenotes® from the validator's memory but will not affect the controller's memory.
- 5. Insert one coded Tokenote® into the validator, making sure that it is accepted.
- 6. Repeat step 5 for each uniquely coded Tokenote® you wish to program. (Make sure that each Tokenote® is equal in value.) Up to 14 different codes can be programmed.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED. Switch #2 must be in the OFF position in order to accept Tokenotes®.

Programming Two Or More Tokenotes® With Different Values

You will need:

- **1. Training Coupons** Training Coupons are used to program Tokenotes® into the Validator's memory. There are four different Training Coupons: Coupon #1, Coupon #2, Coupon #3, and Coupon #4.
- **Clear All Coupon** The CLEAR ALL Coupon is used to erase all previously trained Tokenotes® so that the validator will no longer accept any of those Tokenotes®.

The following table shows the different types of Training Coupons needed to successfully program Tokenotes® on an Autocashier.

| Training Coupon Type | Usage |
|----------------------|---|
| COUPON #1 | Used to program credit for Coupon #1 discount |
| COUPON #2 | Used to program credit for Coupon #2 discount |
| COUPON #3 | Used to program credit for Coupon #3 discount |
| COUPON #4 | Used to program credit for Coupon #4 discount |
| CLEAR ALL | Used to erase all trained Tokenotes® so that the Validator will no longer accept any Tokenotes® |
| NULL | Used to accept a particular Tokenote® without giving credit for it (such as an expired note) |
| CLEAR ONE | Used to erase one or more trained Tokenotes® so that the Validator will no longer accept cleared Tokenotes® |

PROGRAMMING THE STA VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 8 DIP switches to the OFF position. Then, starting with switch #8, slowly move the switches to the ON position, one switch at a time and in descending order (8, 7, 6, 5...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. At this point, it is recommended to insert the CLEAR ALL Training Coupon, especially if this is the first time the validator is being programmed or if it has just been returned after being serviced. The CLEAR ALL Coupon will erase all previously trained Tokenotes® from the validator's memory but will not affect the controller's memory.
- 5. Insert one coded Tokenote® into the validator, making sure that it is accepted.
- 6. Insert Training Coupon #1 into the validator, making sure that it is accepted.
- 7. Repeat steps 5 and 6 to program each uniquely coded Tokenote® of the same value.
- 8. To program a differently coded Tokenote® with a different payout, simply insert that Tokenote® into the validator, followed by Coupon #2. Repeat as needed, using Coupons #3-4 for each Tokenote® coded differently. Altogether, up to 15 different codes can be programmed.
- 9. Starting with Switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED. Switch #2 must be in the OFF position in order to accept Tokenotes®.

PROGRAMMING THE HVX or XE VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 10 DIP switches to the OFF position. Then, starting with switch #10, slowly move the switches to the ON position, one switch at a time and in descending order (10, 9, 8, 7...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. At this point, it is recommended to insert the CLEAR ALL Training Coupon, especially if this is the first time the validator is being programmed or if it has just been returned after being serviced. The CLEAR ALL Coupon will erase all previously trained Tokenotes® from the validator's memory but will not affect the controller's memory.
- 5. Insert one coded Tokenote® into the validator, making sure that it is accepted.

- 6. Insert Training Coupon #1 into the validator, making sure that it is accepted.
- 7. Repeat steps 5 and 6 to program each uniquely coded Tokenote® of the same value.
- 8. To program a differently coded Tokenote® with a different payout, simply insert that Tokenote® into the validator, followed by Coupon #2. Repeat as needed, using Coupons #3-4 for each Tokenote® coded differently. Altogether, up to 14 different codes can be programmed.
- 9. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED. Switch #2 must be in the OFF position in order to accept Tokenotes®.

When programming more than one Tokenote®, it is important to keep the following in mind:

- Up to 14 differently coded Tokenotes® can be programmed at one time into the HVX or XE Validator or 15 different coded Tokenotes® for the STA Validator.
- It is possible to use one coupon to program several differently coded Tokenotes®, as long as they are of equal value. (For example, Coupon #1 can be used to program 3 differently coded Tokenotes® with a value of \$5 each.)

The same Tokenote® code cannot be programmed into different categories.

• Tokenotes® may be programmed into the four COUPON DISCOUNTS categories (Coupon #1-4) and the TOKENOTE® VALUE? category all at the same time (allowing a total of five categories). Tokenotes® may be distributed evenly throughout these categories, or spread out using any combination, as long as the Tokenote® values are the same for each category.

Voiding Tokenotes®

To void unwanted Tokenotes® it is necessary to have three additional Training Coupons; NULL, VENDING CLEAR ONE, and CLEAR ALL. The use of any Tokenote® can be eliminated by one of the three methods described below.

> To continue to accept, but no longer give credit for a particular Tokenote®. (Erase a value)

PROGRAMMING THE STA VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 8 DIP switches to the OFF position. Then, starting with switch #8, slowly move the switches to the ON position, one switch at a time and in descending order (8, 7, 6, 5...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.

- 4. Insert the Tokenote® you no longer wish to credit into the validator, making sure that it is accepted.
- 5. Insert the NULL Training Coupon into the validator, making sure that it is accepted.
- 6. Repeat steps 4-5 for each Tokenote® that you no longer wish to give credit for.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 10 DIP switches to the OFF position. Then, starting with switch #10, slowly move the switches to the ON position, one switch at a time and in descending order (10, 9, 8, 7...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. Insert the Tokenote® you no longer wish to credit into the validator, making sure that it is accepted.
- 5. Insert the NULL Training Coupon into the validator, making sure that it is accepted.
- 6. Repeat steps 4-5 for each Tokenote® that you no longer wish to give credit for.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.
- To stop accepting a particular Tokenote® (Erase any record that the Tokenote® was ever programmed)

PROGRAMMING THE STA VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 8 DIP switches to the OFF position. Then, starting with switch #8, slowly move the switches to the ON position, one switch at a time and in descending order (8, 7, 6, 5...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. Insert the Tokenote® you wish to clear into the validator, making sure that it is accepted.
- 5. Insert the VENDING CLEAR ONE Training Coupon into the validator,

- making sure that it is accepted.
- 6. Repeat steps 4-5 for each Tokenote® you wish to void.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 10 DIP switches to the OFF position. Then, starting with Switch #10, slowly move the switches to the ON position, one switch at a time and in descending order (10, 9, 8, 7...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. Insert the Tokenote® you wish to clear into the validator, making sure that it is accepted.
- 5. Insert the VENDING CLEAR ONE Training Coupon into the validator, making sure that it is accepted.
- 6. Repeat steps 4-5 for each Tokenote® you wish to void.
- 7. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.

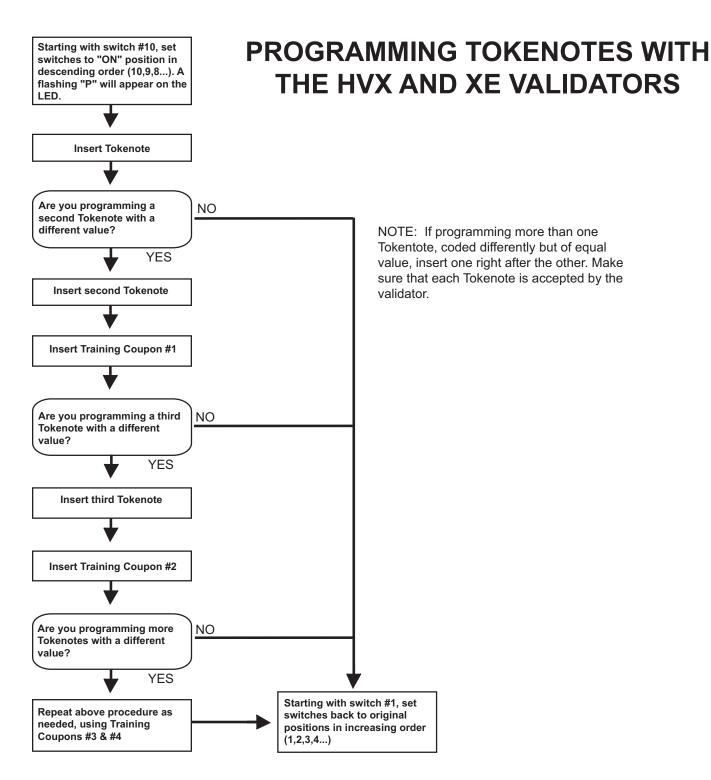
> To stop accepting all Tokenotes® already programmed into the validator.

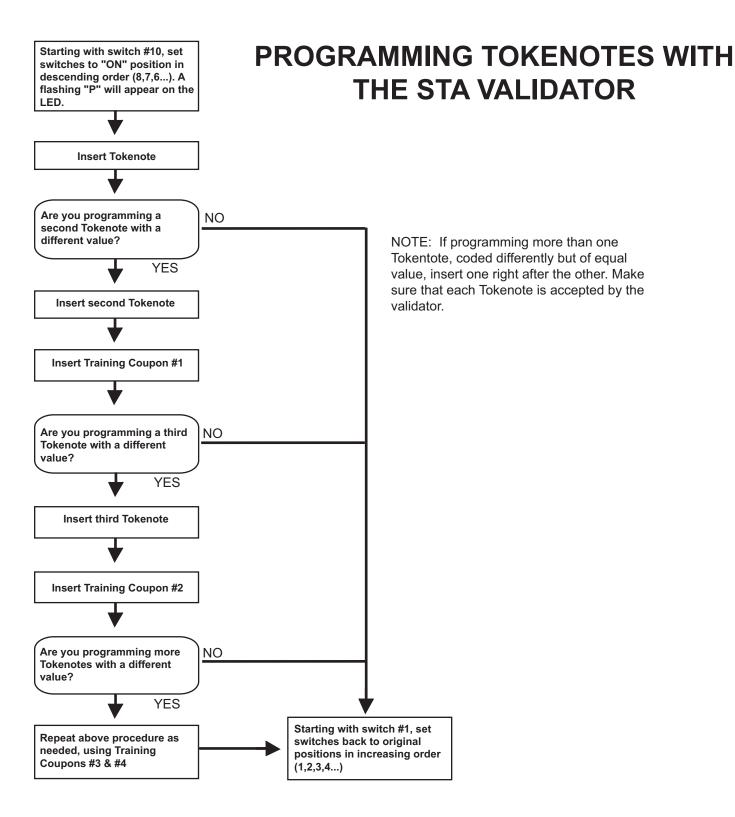
(This erases any record that the Tokenotes® were ever programmed)

PROGRAMMING THE STA VALIDATOR:

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 8 DIP switches to the OFF position. Then, starting with switch #8, slowly move the switches to the ON position, one switch at a time and in descending order (8, 7, 6, 5...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. Insert the CLEAR ALL Training Coupon into the validator, making sure that it is accepted.
- 5. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.

- 1. With the power on, check the operation of the validator. A dot flashing on the LED indicates it is operating normally.
- 2. Note the position of each switch on the DIP switch. (The DIP switch is located on the side of the validator.)
- 3. Set all 10 DIP switches to the OFF position. Then, starting with switch #10, slowly move the switches to the ON position, one switch at a time and in descending order (10, 9, 8, 7...). The LED should now be flashing the letter "P". This signifies that the validator is in the Tokenote® Programming Mode.
- 4. Insert the CLEAR ALL Training Coupon into the validator, making sure that it is accepted.
- 5. Starting with switch #1, slowly move the switches back to their original positions one at a time. This must be done in ascending order (1, 2, 3, 4...). A dot should now be flashing on the LED.





Appendix A Default Settings

| TOKEN COIN MODE | MULTIPLE CREDITS |
|--------------------|----------------------|
| TOKEN COIN VALUE | \$1.00 |
| TOKENOTE MODE | MULTIPLE CREDITS |
| TOKENOTE VALUE | \$1.25 |
| COUPON MODE | SINGLE VALUE |
| COUPON #1 VALUE | \$0.25 |
| COUPONE #2 VALUE | \$0.50 |
| COUPON #3 VALUE | \$0.75 |
| COUPON #4 VALUE | \$1.00 |
| ITEM #1 PRICE | \$1.00 |
| ITEM #2 PRICE | \$2.00 |
| ITEM #3 PRICE | \$3.00 |
| ITEM #4 PRICE | \$4.00 |
| ITEM #5 PRICE | \$5.00 |
| ITEM #6 PRICE | \$6.00 |
| ITEM #7 PRICE | \$7.00 |
| ITEM #8 PRICE | \$8.00 |
| ITEM #1 DISPLAY | MINUTES |
| ITEM #2 DISPLAY | MINUTES |
| ITEM #3 DISPLAY | HOURS |
| ITEM #4 DISPLAY | HOURS-MINUTES |
| ITEM #5 DISPLAY | HOURS |
| ITEM #6 DISPLAY | HOURS-MINUTES |
| ITEM #7 DISPLAY | HOURS |
| ITEM #8 DISPLAY | HOURS |
| PROCEED MESSAGE #1 | THANK YOU |
| PROCEED MESSAGE #2 | TAKE TICKET |
| PROCEED MESSAGE #3 | DISPLAY ON DASHBOARD |
| PROCEED MESSAGE #4 | "NOT USED" |
| WELCOME MESSAGE #1 | WELCOME |
| WELCOME MESSAGE #2 | DATE & TIME |
| WELCOME MESSAGE #3 | SELECT PARKING TIME |
| WELCOME MESSAGE #4 | "NOT USED" |
| | |

Default Settings (cont.)

| EXTERNAL DISPLAY MESSAGES | "NOT USED" |
|---------------------------|------------------------------|
| SET DATE & TIME | SUN 01-01-00 12:00 A |
| EMPTY MODE | USE EXACT AMOUNT |
| SET HOPPER CONTENTS | QUARTER |
| BUILD MODE | LIMIT ENABLED |
| PAY DEFAULT | USE ALTERNATE PAYMENT |
| BUTTON MAPPING | ENABLED |
| SET UNIT NUMBER | #1 |
| SET WELCOME DELAY | 10 SECONDS |
| VEND DURATION | 2.0 SECONDS |
| PROCEED TIME | 6.0 SECONDS |

Appendix B Item Displays

| MINUTES |
|---------------|
| HOURS |
| HOURS MINUTES |
| ALL DAY |
| ALL NIGHT |
| (BLANK) |

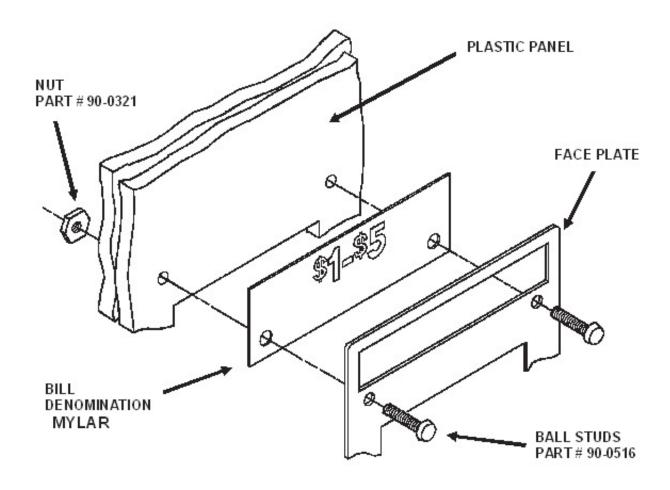
Appendix C Welcome Messages

| NOT USED |
|-------------------------|
| CURRENT DAY DATE & TIME |
| WELCOME |
| SELECT ITEM PLEASE |
| PLEASE CHOOSE ITEM |
| PRESS ITEM BUTTON |
| SELECT PARKING TIME |
| USE CARDS OR CASH |
| OR SELECT ITEM |
| SELECT ITEM |
| SELECT SERVICE |
| OR DEPOSIT MONEY |
| MAKE SELECTION |
| SELECT DESIRED TIME |
| USE CASH OR TOKEN |
| SELECT TIME |
| INSERT CREDIT CARD |
| AND REMOVE QUICKLY |
| (BLANK) |

Appendix D Proceed Prompts

| "NOT USED" |
|-----------------------|
| THANK YOU |
| PLEASE DRIVE AHEAD |
| TAKE TICKET |
| DISPLAY ON DASHBOARD |
| DISPLAY TICKET ON |
| DRIVER SIDE DASHBOARD |
| PLEASE PROCEED |
| DRIVE FORWARD |
| (BLANK) |

Appendix E Bill Denomination Mylar Installation Instructions



- 1. Loosen and remove the nuts from the ball studs.
- 2. Remove the ball studs from the face plate.
- 3. Insert the bill denomination mylar between the face plate and the plastic panel until the holes in the bill denomination mylar line up with the holes in the faceplate.
- 4. Reinsert the ball studs into the front of the face plate, through the bill denomination mylar and the plastic panel.
- 5. Replace the nuts on the ball studs and tighten.

LIMITED WARRANTY AGREEMENT OF HAMILTON MANUFACTURING CORP.

Hamilton Manufacturing Corp., an Ohio Corporation, ("Seller") warrants to Purchaser that all new equipment shall be free from defects in material and factory workmanship for a period of one (1) year from the original shipping date. Hamilton Manufacturing Corp. further warrants if any part of said new equipment in Seller's sole opinion, requires replacement or repair due to a defect in material or factory workmanship during said period, Seller will repair or replace said new equipment. Purchaser's remedies and the liabilities and obligations of Seller herein shall be limited to repair or replacement of the equipment as Seller may choose, and Seller's obligation to remedy such defects shall not exceed the Purchaser's original cost for the equipment. Purchaser EXPRESSLY AGREES this is the EXCLUSIVE REMEDY under this warranty. There are no other express or implied warranties which extend beyond the face hereof. All warranty repair service must be performed by either a Factory Trained Service Representative or HAMILTON MANUFACTURING CORP., 1026 Hamilton Drive, Holland, Ohio 43528 PHONE (419) 867-4858 or (800) 837-5561, FAX (419) 867-4867.

The limited warranty for new equipment is conditioned upon the following:

- 1. The subject equipment has not, in the Seller's sole opinion, been subjected to: accident, abuse, misuse, vandalism, civil disobedience, riots, acts of God, natural disaster, acts of war or terrorism.
- 2. The Seller shall not be liable for any expense incurred by Purchaser incidental to the repair or replacement of equipment and Purchaser shall assume full responsibility for any freight or shipping charges.
- 3. The coverage of this warranty shall not extend to expendable parts.
- 4. Purchaser shall have a warranty registration card on file with Seller prior to any claim in order for warranty protection to apply.
- 5. No warranty coverage is applicable to any equipment used for currency other than that specified at the time of the purchase.
- 6. Seller expressly disclaims any warranty that counterfeit currency will not activate said equipment.
- 7. Seller expressly disclaims any warranty for any losses due to bill manipulation or theft or loss of cash under any circumstances.
- 8. Use of the equipment for anything other than its intended and designed use will void the Limited Warranty Agreement. Use of equipment for anything other than its intended and designed use includes, but is not limited to, downloading software/applications not certified by Seller such as e-mail, spyware, screen savers, viruses, worms, third party software, web search engines, cookies, spam, desktop applications, games, web surfing, etc.

Seller further warrants all repair or service work performed by a factory trained representative or Hamilton Manufacturing Corp. for a period of ninety (90) days from the date the repair or service work was performed. Purchaser's remedies and the liabilities and obligations of Seller herein shall be limited to repair or replacement of equipment as Seller may choose, and Seller's obligation to remedy such defects shall not exceed the Purchaser's depreciated value of the equipment. Purchaser EXPRESSLY AGREES this is an EXCLUSIVE REMEDY under this warranty. There are no other express or implied warranties on repair or

service work performed by a factory trained representative or Hamilton Manufacturing Corp. which extend beyond the face hereof.

The limited warranty for repair and service work is conditioned upon the following:

- 1. The subject equipment has not, in the Seller's sole opinion, been subjected to: accident, abuse, misuse, vandalism, civil disobedience, riots, acts of God, natural disaster, acts of war or terrorism.
- 2. The Seller shall not be liable for any expense incurred by Purchaser incidental to the repair or replacement of equipment and Purchaser shall assume full responsibility for any freight or shipping charges.
- 3. The coverage of this warranty shall not extend to expendable parts.
- 4. Purchaser shall have a warranty registration card on file with Seller prior to any claim in order for warranty protection to apply.
- 5. No warranty coverage is applicable to any equipment used for currency other than that specified at the time of the purchase.
- 6. Seller expressly disclaims any warranty that counterfeit currency will not activate said equipment.
- 7. Seller expressly disclaims any warranty for any losses due to bill manipulation or theft or loss of cash under any circumstances.
- 8. No person or entity other than a factory trained representative or Hamilton Manufacturing Corp. has performed or attempted to perform the subject repair or service.
- 9. Using equipment which has been serviced or repaired for anything other than its intended or designed use such as downloading software applications not certified by Seller will void the Limited Warranty Agreement. This includes software/applications such as e-mail, spyware, screen savers, viruses, worms, third party software, web search engines, cookies, spam, desktop applications, games, web surfing, etc.

THIS AGREEMENT IS MADE WITH THE EXPRESS UNDERSTANDING THAT THERE ARE NO IMPLIED WARRANTIES THAT THE EQUIPMENT SHALL BE <u>MERCHANTABLE</u>, OR THAT THE GOODS SHALL BE <u>FIT FOR ANY PARTICULAR PURPOSE</u>. PURCHASER HEREBY ACKNOWLEDGES THAT IT IS NOT RELYING ON THE SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH EQUIPMENT SUITABLE FOR ANY PARTICULAR PURPOSE AND THAT THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THAT WHICH IS DESCRIBED HEREIN.

The Purchaser agrees that in no event will the Seller be liable for direct, indirect, or consequential damages or for injury resulting from any defective or non-conforming new, repaired or serviced equipment, or for any loss, damage or expense of any kind, including loss of profits, business interruption, loss of business information or other pecuniary loss arising in connection with this Limited Warranty Agreement, or with the use of, or inability to use the subject equipment regardless of Sellers knowledge of the possibility of the same.

Hamilton Manufacturing Corporation

1026 Hamilton Drive Holland, OH 43528

Sales Phone: (888) 723-4858 **Sales Fax:** (419) 867-4850

Customer Service Phone: (800) 837-5561 Customer Service Fax: (419) 867-4857

Parts Phone: (866) 835-1721 **Parts Fax:** (419) 867-4867

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