

# AMERICAN CHANGER & HOFFMAN MINT

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## **“CardSTATION” – DISPENSER**

**OPERATIONS MANUAL  
MODEL AC603/AC604/AC605**

**Parts & Service: (888)741-9840**

**Service Fax: (954)917-5204**

**Sales: (800)741-9840**

To order parts only, visit our website: [www.americanchanger.com](http://www.americanchanger.com)

Service Questions? E-mail: [service@americanchanger.com](mailto:service@americanchanger.com)

Revised January 2016

**Model Number:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**Tested By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## **Specifications**

Operating voltage	120VAC +10% to -15%
Power consumption	Controller: 100W
Operating temperature	0 - 120 degrees Fahrenheit
Interface to dispensers	24VDC, 2.5 amps max.
Interface to validators	24VAC, 1.5 amps max.
Card dispenser capacities	200 per card dispenser

## **Warranty Information**

**A Return Material Authorization number (RMA #) must be obtained before returning a unit for repair. A copy of invoices must accompany any and all warranty work.**

***It is the end users' responsibility to follow cleaning and maintenance procedures as outlined in the validator manual. Any unit returned for repair requiring only a cleaning will be charged a flat rate plus shipping and handling.***

### **Validators**

*Validators are warranted for two years from date of purchase.*

### **Dispenser(s) and Logic Board**

*These items are warranted for one year from date of purchase.*

#### **COVERED**

- Manufacturers' defects in workmanship or materials

#### **NOT COVERED**

- Damage caused by shipping or physical abuse
- Misapplication
- Vandalism
- End users' attempt, on their own, to repair components
- Cleaning and maintenance
- Power surges and lightning strikes

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## SECTION A SETUP & INSTALLATION

### **Setup**

Inspect for any connectors or components that may have been dislodged during shipping. The lock and keys for your changer will be inside the manila envelope along with this manual and other pertinent information. To install the lock, insert the cylinder into the hole in the middle of the T-handle and push until it stops. Turn the key until you hear it "snap." Turn the key counterclockwise ¼ turn and remove the keys.

**NOTE:** The only way to get a duplicate set of keys made is to save the tag that comes between the keys. This ID # starts with "AC or ACC ####."

### **CELLULAR WIRELESS CREDIT CARD SYSTEM (optional)**

This feature is an optional add-on for most American Changer models. A separate maintenance manual is included in your packet. You ***MUST*** call American Changer technical support at (888) 741-9840 for setup and operating instructions. Prior to startup in the wireless mode, the machine will operate and validate cash transactions only.

### **Assembling the CardStation**

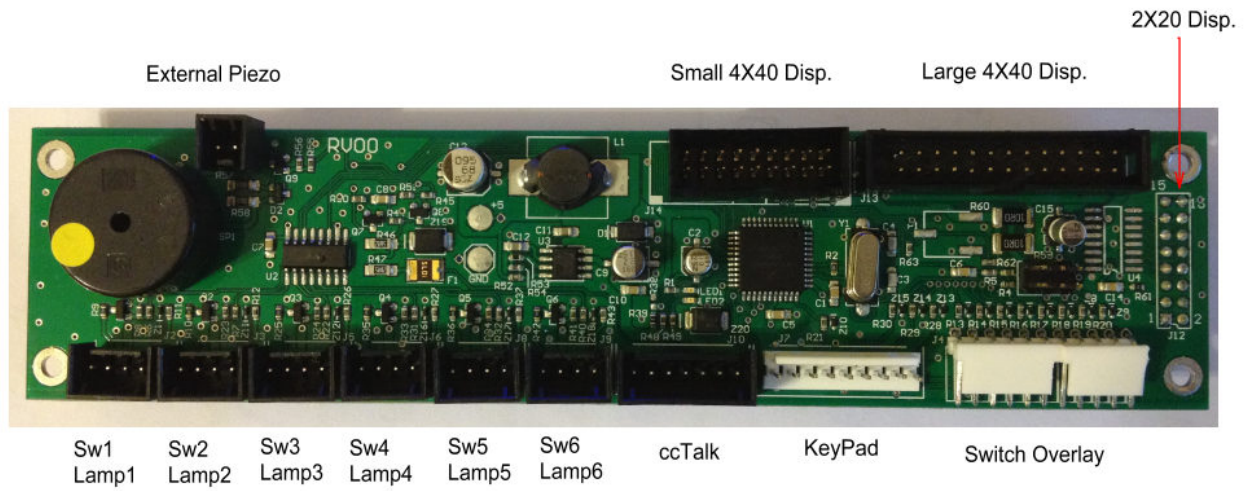
**Safety Note:** The machine comes almost completely assembled, in a box strapped to a pallet. Care must be taken in unpacking and maneuvering the machine into place. It is not a one-man job.

**Fill the card dispensers with cards. Be sure to place the weights, located in the provided envelope, on top of the cards.**

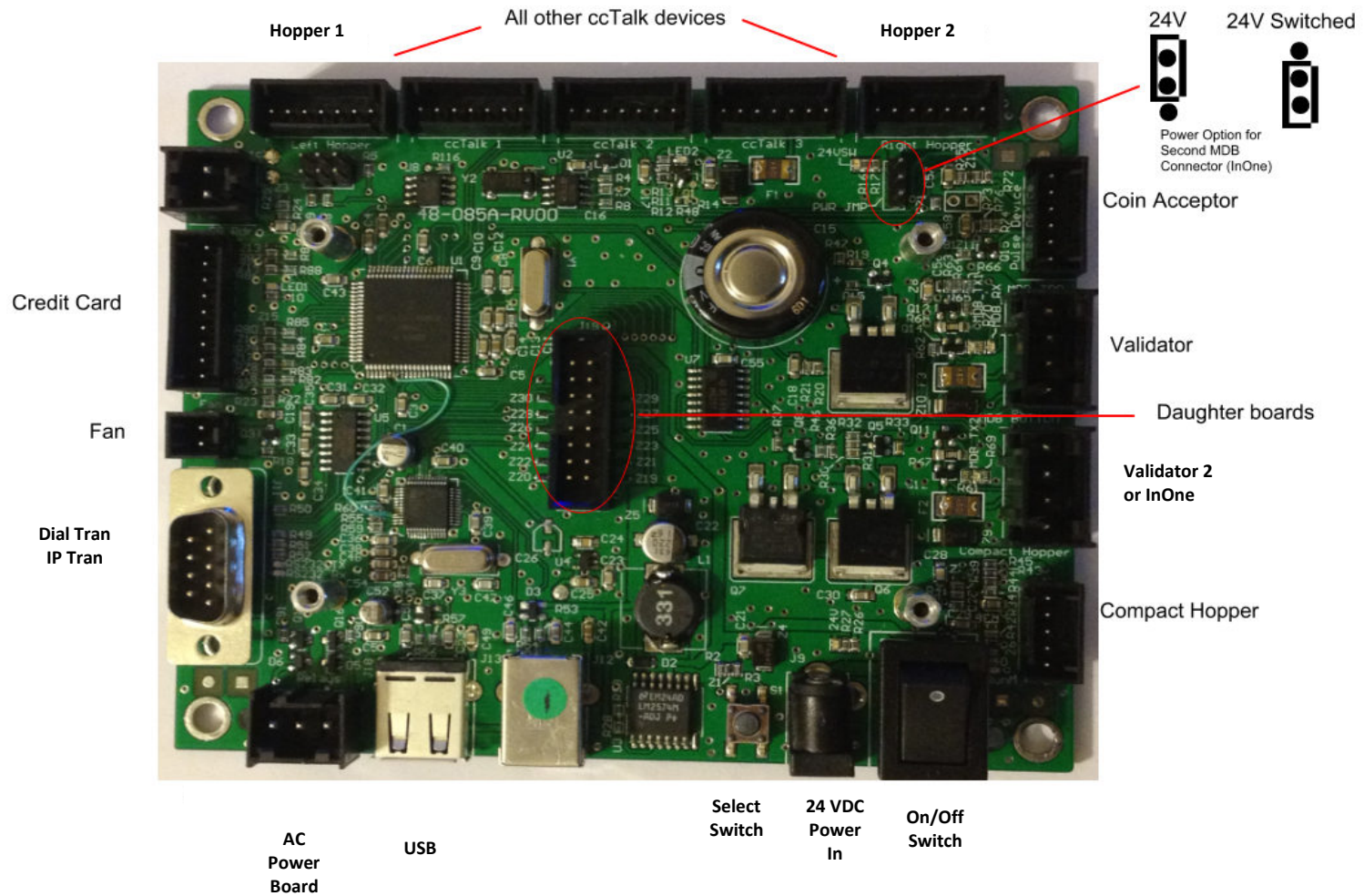
Locate the on/off switch on the lower right corner of the Flex Main Logic Board (next to the flashing green LED) and turn the machine on.

As the machine initializes a few messages will be displayed on the external LCD display. The machine is ready for use when the price points are displayed on the external LCD display. Credit card sales will be available approximately 30 to 45 seconds after the price points appear.

Note\* To change payouts, it is necessary to enter the program mode.



**Figure 8 – AC8001-FLXI0B Flex I/O Board**



**Figure 9 – AC8001-FLEXBD Main Logic Board**

## **Programming the AC603 CardStation**

The configuration menu can be accessed only if the door is open.

Pressing the select switch on the Flex board (Fig. 9) will bring the display to show “Enter Access Code.”

Use the keypad to enter the access code. The default code from the factory is “1234”

Pressing the select switch again will get the user out of the menu mode.

Use the keypad to enter the menu number or press the **Back/Next** button to step through the menus.

All the menus work the same:

**No/Yes:** Selects status

**Back/Next:** Selects the item

**Exit.** Exit the setup menu

### **01 - Print Help Menu**

Prints the Menu Index (Figure 10)

### **02 - System Info**

Prints the payout information and configuration settings. The following information is also included on the System Info Printout.

Software Revision	Validator Status
Coin Acceptor Status	Zip Code Option Status
Credit Card Status	Hopper #1 Status
Printer Status	Hopper #2 Status
Temperature	

### **03 - Button Price**

Select the value for selections 1 thru 4. Here you will enter the price point for each of the four available choices. When entering the price, be sure enter all necessary zeros including the 2 zeros following the decimal point. For Button 1 enter “0005.00” then press the arrow button under the “Next” option. The screen now displays “Button 2”. Enter “0010.00” and press the arrow under the “Next” option. For Button 3 enter “0020.00” and press the arrow button under the “Next” option. For Button 4 enter “0030.00” and press the arrow under the “Exit” option. Once you select “Exit” you will be brought back to the main menu. If you want different prices enter them following the above steps.

### **04 - Button Payout**

Set up payout count for the 4 selection buttons. Here you will enter the quantity of tickets to be dispensed for each of the four available choices. For Button 1 enter “020” then press the arrow button under the “Next” option. The screen now displays “Button 2”. Enter “040” and press the arrow under the “Next” option. For Button 3 enter “080” and press the arrow button under the “Next” option. For Button 4 enter “120” and press the arrow under the “Exit” option. Once you select “Exit” you will be brought back to the main menu. If you want different token payouts enter them following the previous steps.

### **05 - Enable Bills**

Selects which bills to accept and reject. This will only display bills the validator can accept.



**06 - Payout Table (Only Used for Quick Pay Option)**

Only bills enabled in Menu 05 will be available in this menu. Enter the number of items to be paid for each bill type. The first payout option displayed is "\$0.\*\*". This option is used to set the number of tokens paid per quarter. If the quarter is not being accepted press the button under the "Next" option. Next you will see "\$1". To pay 4 coins for a dollar enter "002" and then press the arrow button under the "Hop1" selection. **Do not press the "Next" button at this point. Please use the images below as a guide if necessary.** The display will still display "\$1" but the option you just selected will have changed to "Hop2". Enter "002" and press the arrow button under the "Next" option. You will now set up the payout for the "\$5". To payout 20 coins for 5 dollars enter "010" and then press the arrow button under the "Hop1" selection. "Hop2" will be displayed, enter "010" and press the arrow button under the "Next" option. Now set up the payout for the "\$10". To payout 40 coins for 10 dollars enter "020" and then press the arrow button under the "Hop1" selection. "Hop2" will be displayed, enter "020" and press the arrow button under the "Next" option. Now set up the payout for the "\$20". To payout 80 coins for 20 dollars enter "040" and then press the arrow button under the "Hop1" selection. "Hop2" will be displayed, enter "040" and press the arrow button under the "Exit" option.



## 07 - Enable Hoppers

Enable/disable hoppers 1, 2, 3, and/or 4.

## 08 - Hopper Coin Values

**Use only for different value coins in each hopper.**

Hopper 1= Left hopper                   Set value of coin to be dispensed from \$000.00 to \$999.99

Hopper 2= Right hopper                 Set value of coin to be dispensed from \$000.00 to \$999.99

Hopper 3= Middle hopper               Set value of coin to be dispensed from \$000.00 to \$999.99

Hopper 4= Middle hopper               Set value of coin to be dispensed from \$000.00 to \$999.99

You will also set whether the hopper is dispensing Change or Tokens by pressing the arrow under "Token". This will toggle between "Token" and "Change".

## 09 - Enable Coin Acceptor

Enable/disable the coin acceptor.

## 10 - Select Devices

Select the devices to be disabled. Hop1 Hop2 CassU and CassL. If the device is displayed it is disabled.

## 11 - Promo Token Payout

Enter the # of items paid for each token type by using the keypad. Up to four different tokens can be programmed. Use position 7 (7 pulses), 8 (8 pulses), 9 (9 pulses) and A (10 pulses) on the Condor coin acceptor. If using an IDX coin acceptor it will be program med using the number of pulses.

## 12 - Dump Hoppers

Dumps the coins from all hoppers

## 13 - Audit Information

Prints a summary of all the sales (Figure 11). There are separate counters for credit cards and items/change dispensed from hoppers 1 and 2.

**Reset:** Prints 2 copies of all the audit values and resets all the "**Resettable Counters**" to 0. Every time **Reset** button is pushed, the audit sequence number increases by one.

**Print:** Pushing the **Print** button prints all the audit values without resetting. All the values are max 99,999 except for the **Total Cash** value, which is \$100,000.00.

## 14 - Vend Item Name

Choose from Items, Tickets or Tokens. (Currently not used)

## 15 - Date Setup

Enter the date in this format: YY-MM-DD

## 16 - Time Setup

Enter the time in this format: HH:MM (24-hour format)

## 17 - Machine Number

Use the keypad to enter the Machine Number (Figure 12).

## 18 - Marquee Timer

Set up the time to turn on/off the marquee.

## 19 - Zip-code Enable

Enable or disable the zip-code verification feature.

## 20 - Access Code

Reset the access code for entering the Program function.

## 21 - Key Beep Enable

Enable/disable beep when keys are pressed.

## 22 - Location Name

Set the name of the location to be printed on the credit card receipt.

## 23- Bills Loaded Cassette High (Not used for this machine)

Set the quantity of the bills loaded in the top cassette. If using sensors this should be set to 000.

## 24- Bills Loaded Cassette Middle (Not used for this machine)

Set the quantity of the bills loaded in the bottom cassette. If using sensors this should be set to 000.

**25- Bill Value Cassette High (Not used for this machine)**

Set the value of the bill to be dispensed from the top cassette.

**26- Bill Value Cassette Middle (Not used for this machine)**

Set the value of the bill to be dispensed from the bottom cassette.

**27-Printer Options**

This gives the owner the option of printing a receipt for a credit card transaction. The selections are "ALWAYS" "PROMPT" and "NEVER". The default setting is "ALWAYS."

This also gives the option for printing a receipt for a cash transaction. The selections are "ALWAYS" "PROMPT" and "NEVER" the default setting is "NEVER".

Set up long or short receipt and full or partial paper cut.

**28- Validator Enable**

Enable or disable the bill validator. For machines with a coin acceptor only this will be set to disable.

**29- InOne Test Mode**

Troubleshooting for the InOne credit card system. **Call American Changer Service before enabling this feature.**

**30- Country**

Set which country the machine will be used in. U.S. or UK.

## Menu Index

01 = Print Help  
02 = System Information  
03 = Button Price  
04 = Button Payout  
05 = Enable Bill  
06 = Payout Table  
07 = Enable Hoppers  
08 = Hopper Coin Value  
09 = Enable Coin Acceptor  
10 = System Disable  
11 = Promo-Token Payout  
12 = Dump Hoppers  
13 = Audit Information  
14 = Vend Item Name  
15 = Date Setup  
16 = Time Setup  
17 = Machine Number  
18 = Marquee Timer  
19 = Zipcode Enable  
20 = Access Code  
21 = Key Beep Enable  
22 = Location Name  
23 = Bills Loaded Cassette Upper  
24 = Bills Loaded Cassette Lower  
25 = Bill Value Cassette Upper  
26 = Bill Value Cassette Lower  
27 = Printer Options  
28 = Enable Validators  
29 = InOne Test Mode  
30 = Country

**Figure 10 – Help Menu Index**

```

Machine #: 000 Information

      yyyy mm dd hh mm ss
      2012-01-01 13:20:56
===== Pay Out =====

      Hopp1 Hopp2 Castl Castl
Disable Sys :
$0.00 : 0 0 0 0
$1 : 0 0 0 0
$5 : 0 0 0 0
$10 : 0 0 0 0
$20 : 0 0 0 0
$0 : 0 0 0 0
$0 : 0 0 0 0
$0 : 0 0 0 0
$0 : 0 0 0 0
Hopper1 : Token
Hopper2 : Token
Hopper3 : Disabled
Hopper4 : Disabled

Selections
1= $1.00 : 005
2= $5.00 : 010
3= $10.00 : 020
4= $20.00 : 030

Receipt Cred: Always
Receipt Cash: Never

PromoTokens 5,6,7 & 8 Pulses!
PromoToken#1: 0
PromoToken#2: 0
PromoToken#3: 0
PromoToken#4: 0

== Bill Dispenser NONE ==
Upper Limit : 800
Lower Limit : 800
Upper Value : $001
Lower Value : $001

===== Status =====
Software Rev: FLXV-0A-D15
Coin cTalk : OK
Zip Code : Disabled
Hopper #1 : HOPR-1-C01
Hopper #2 : HOPR-1-C01
Hopper #3 : Disabled
Hopper #4 : Disabled
Validator1 : OK
Validator2 : No Comm.
Credit Card : No Comm.
Printer : OK
Temperature : 26degC 78degF
USB : No Device

== Bill Dispenser NONE ==
ROM Version : **
Checksum : ****
Display :
Sensor 0 :
Sensor 1 :

===== Web Server =====
IP Address : 0.0.0.0
Network Mask: 0.0.0.0
Gateway : 0.0.0.0
DNS Server : 0.0.0.0

```

**Figure 11 – Audit Print Definitions**

```

      yyyy mm dd hh mm ss
      2012-01-01 13:20:36
      Machine #: 000
      Audit Sequence # 0
= Non-resettable Counters =
Total Cash $: 0
$00.01 Coins: 0
$00.02 Coins: 0
$00.05 Coins: 0
$00.10 Coins: 0
$00.20 Coins: 0
$00.50 Coins: 0
$1 : 0
$5 : 0
$10 : 0
$20 : 0
$0 : 0
$0 : 0
$0 : 0
$0 : 0
Total CC $: 0
Paid Hopper1: 0
Paid Hopper2: 0
Paid Hopper3: 0
Paid Hopper4: 0
Refund Hopp1: 0
Refund Hopp2: 0
Refund Hopp3: 0
Refund Hopp4: 0
Paid Total : 0

=== Resetable Counters ===
Total Cash $: 0
$00.01 Coins: 0
$00.02 Coins: 0
$00.05 Coins: 0
$00.10 Coins: 0
$00.20 Coins: 0
$00.50 Coins: 0
$1 : 0
$5 : 0
$10 : 0
$20 : 0
$0 : 0
$0 : 0
$0 : 0
$0 : 0
Total CC $: 0
Paid Hopper1: 0
Paid Hopper2: 0
Paid Hopper3: 0
Paid Hopper4: 0
Refund Hopp1: 0
Refund Hopp2: 0
Refund Hopp3: 0
Refund Hopp4: 0
Paid Total : 0

CC Amx : 0
CC Visa : 0
CC Discover : 0
CC MasterCard: 0
Gift Card : 0

PromoTokens 5,6,7 & 8 Pulses!
PromoToken#1: 0
PromoToken#2: 0
PromoToken#3: 0
PromoToken#4: 0

===== Bill Dispenser =====
Cassette Dispensed Rejected
Upper 000 000
Lower 000 000

Selections
1= $1.00 : 0
2= $5.00 : 0
3= $10.00 : 0
4= $20.00 : 0
Total Select: 0

```

**Figure 12 – Machine No. Information**

## Remote Loading Software to the Flex Board

### What you need:

Computer running Windows with a USB port

USB flash drive (**Flash drive must be formatted!**)

*EraseMM.Hex* file

New software update file

#### 1. Transferring the file into the USB flash drive

1. The software is in a zip format and will be sent as an attachment to an email.
2. Save the zipped file and then unzip it.
3. **Do not change the name or the file extension!!!**

#### Erase Memory:

Load *EraseMM.Hex* file on USB drive! **Do not load the new software update yet, since the memory must be cleared first!**

Load the *EraseMM.Hex* file from the USB flash drive to the controller board

**Note: All system settings will be erased once software is updated!!!**

**We recommend printing out all of the settings and the audit report before doing a software update.**

1. Turn power off to the controller board.
2. Plug in the USB flash drive into the correct USB port labeled as J18 on the board.
3. Turn power on.
4. The display will show the software name to be loaded.
5. Follow the steps on the display.
6. This first load will clear the memory and the following display message will appear when done:

**CRC Error! V:B03**

**Update Required!**

### **Update Software:**

Remove the *EraseMM.Hex* file on USB drive! Now transfer the software update file to the USB flash drive.

### **Load the software file from the USB flash drive to the controller board**

1. Turn power off to the controller board.
2. Plug in the USB flash drive into the correct USB port labeled as J18 on the board.
3. Turn power on.
4. The display will show the software name to be loaded.
5. Follow the steps on the display.
6. If successful the following message will appear:

### **Update OK! Remove Drive & Cycle Power**

1. **Below are some of the display messages:**

**Update: xxxx-xx-xxx xxxx-xx-xxx** denotes the software name. After 5 seconds and if the **YES** button has not been pressed, the system will go to the regular running software.

#### **File Error!**

Wrong file is loaded into the flash drive. Load the correct file. Try verifying file on drive again.

#### **System Settings will be Erased if Updated**

This reminder will stay on for a few seconds as a double check.

**Begin updating?** Press **Start** to load the software. Press **Exit** to cancel.

### **Start Exit**

**Computing CRC!** System is checking for any errors.

### **Please wait...**

#### **CRC Error! V:XXX**

There is a problem loading the software. The Red LED (LED1) on the Flex board will blink two consecutive times a second if CRC is bad. Turn power off. Remove USB flash drive. Check that the correct file is loaded into the flash drive. Try again.

#### **CRC OK, Initializing**

System is getting ready to update.

### **Please Wait... V:XXX**

**Do Not Remove Drive** Software is being updated.

### **Updating Software!**

#### **Update OK! Remove Drive and Cycle power**

Software is successfully updated! Turn power off. Remove drive.

Turn power on. Reprogram the system settings.

## **Replacing the Printer Paper**

Before the printer paper runs out, you might wish to contact your Distributor and order more Printer paper. The part number is **AC7071-01**, and it is a special brand which is hard to find. Most AC6007 problems occur from the printer. Either the operator buys the wrong paper or has trouble loading the paper. Please follow the steps of either Method #1 or Method #2 below to properly load your thermal printer with new paper.

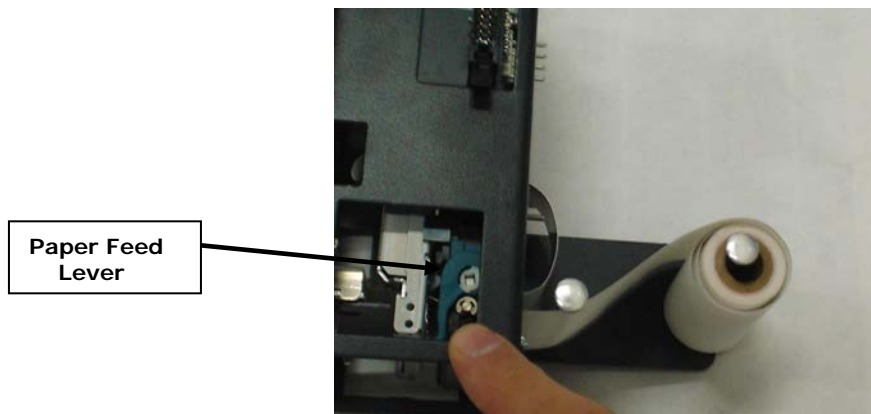


**Figure P1: AC7084 Printer – Rear View**

### **Method #1 – Automatic Feed:**

NOTE: This method must be performed with the board power ON.

1. If there is paper remaining on the previous roll, it must be removed before proceeding. Move the “Paper Feed Lever” from the DOWN to the UP position (refer to Figure P2), and then pull out the remaining paper from the rear of the printer and discard the roll.



**Figure P2: AC7084 Printer – Side View, with Paper**

2. Move the “Paper Feed Lever” back to the DOWN position. Slide a new roll of paper onto the “Roll Holder,” oriented so the paper comes off on the side toward the printer (refer to Figure P3 for the correct placement).





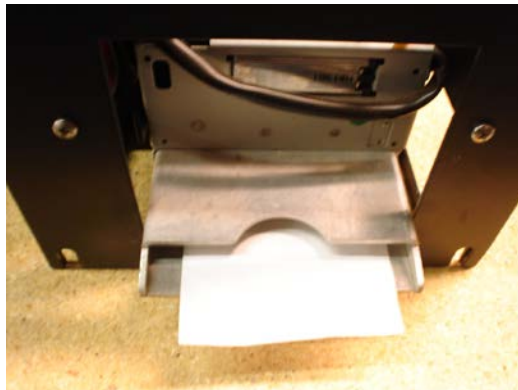
**Figure P3: AC7084 Printer – Side View, Showing Proper Roll Placement**

3. Wrap the paper under the “Paper Guide” and begin to feed it into the “Paper Slot.” You do not need to fold or cut the paper in any way; it should be left square in the front. At a certain point as the paper is being fed in, the printer will detect it and automatically feed it to the printing position. When done, the setup should look like Figure P3.
1. ***IMPORTANT!*** Turn OFF the Main Board power, and turn it ON again after a few seconds. *Note: The printer will not work until the power has been cycled!*
2. Enter the Setup Mode and perform a Printer Test. Make sure the printer prints all of the lines of text and cuts off the paper.

**Method #2 – Manual Feed:**

NOTE: This method can be performed with the board power ON or OFF.

1. If there is paper remaining on the previous roll, it must be removed before proceeding. Move the “Paper Feed Lever” from the DOWN to the UP position (refer to Figure P2), and then pull out the remaining paper from the rear of the printer and discard the roll.
2. With the “Paper Feed Lever” still in the UP position, slide a new roll of paper onto the “Roll Holder,” oriented so the paper comes off on the side toward the printer (refer to Figure P3 for the correct placement).
3. Wrap the paper under the “Paper Guide,” and begin to feed it into the “Paper Slot.” You do not need to fold or cut the paper in any way; it should be left square in the front. Continue to feed the paper into the slot, through the print head, until it passes out through the front of the machine (refer to Figure P4).
4. Move the “Paper Feed Lever” back to the DOWN position. The printer is now ready to print.
5. Enter the Setup Mode and perform a Printer Test. Make sure the printer prints all of the lines of text and cuts off the paper.



**Figure P4: AC7084 Printer – Front View, Paper Fed Through**

## **Functional Description of the AC603 CardStation**

After the CardStation has been installed and the computer programming complete, the machine is ready to operate. Exiting the "Program" mode will bring up the main Pricing screen.

The desired card can be selected by one of the four buttons. Once selected, the payment type needs to be selected if both cash and credit are available, otherwise the selection will automatically transition to cash if there is no credit option or to credit if there is no cash option. If a selection is set to \$00.00 it will not be displayed for the customer.

Cash can be inserted without making any selections, deposits are accumulated and once the cost of a selection is reached, the selection will flash. As more cash is inserted, higher values become available. The user must push a button to select a card.

**Card dispenser:** Each dispenser is linked to a selection. Viewing the selections from the customer's point of view, the left most selection is linked to dispenser 1, the second selection is dispenser 2, the third is dispenser 3 and the right most selection is dispenser 4. If there is a failure to any of the dispensers, that selection will not be available.

Card Stuck: Card Stuck.

No Comm: Card dispenser not communicating

Low Card: dispenser Low in cards

Timed Out Card dispenser timed out on payout

**Validator:** If the validator fails, the display shows a "Credit Cards only" message. Status of the validator can be seen on the System Info printout. Below are the printed failure messages:

Motor: Motor failure

Sensor: Sensor failure

Checksum: Checksum failure

Jammed: Validator is jammed

Cashbox: Cashbox removed

No Comm. No communication

Can't Enable: System has tried to enable the validator several times without success.

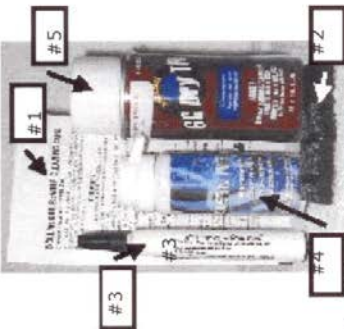
**Credit Card:** If the credit card processing fails, the display shows a "Cash only" message. Status of the credit card processing can be seen on the System Info printout. Below are the printed failure messages:

No Comm. No communication

No Reader: Reader is not connected or defective. (Only if using DataCap)

# SECTION B MAINTENANCE

A full-size version of the cleaning kit instructions is included in your information packet.



**This kit includes the following items:**

- #1 - 5 Validator Cleaning Cards
- #2 - 4 Scotch-Brite LOW-COIN Cleaning Pads
- #3 - Validator Optic Cleaning Pen
- #4 - 2.75oz Can Compressed Air
- #5 - 4oz Can of Hopper Lubricant

**Using the Maintenance Kit:**


The following maintenance should be performed monthly to extend the life of your components:

**Cleaning & lubing the hopper.**  
**NOTICE: THE HOPPER IN THE FOLLOWING STEPS IS SHOWN SEPARATED FOR EXPLANATION REASONS ONLY!!! It is not necessary to separate the hopper to perform these steps!**

**AMERICAN CHANGER MAINTENANCE KIT**  
*Cleaning the Validator(s).*


---

**Step 1.**



**Do not separate the hopper to perform this step!**  
Using the dry Scotch-Brite pad clean Plates until they shine.

**Step 2.**



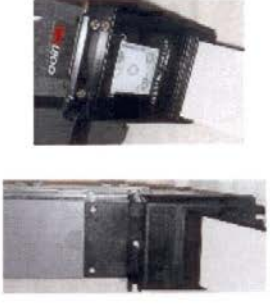
**Do not separate the hopper to perform this step!**  
Place the changer in the dump mode:

1. Turn off power, remove the hopper extension.
2. Hold in "Dump Button".
3. Turn on power.
4. Count 1-2-3
5. Release "Dump Button"

Hopper should now be running. If not Repeat. **Spray lubricant on the RED belt ONLY!** Spray for 4-5 seconds.  
**DO NOT SPRAY SILICON ON THE TWO HOPPER LOGIC BOARDS!**


---

**Step 3.**



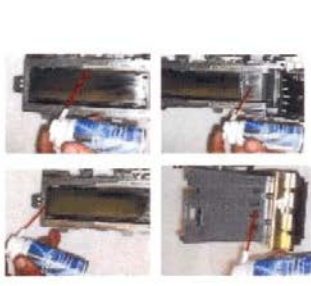
Insert the soap & water-cleaning card as shown. (Card can be used until dry.)

**Step 4.**



Remove the lower unit as shown. Use the Citrus-Pen to clean the optics on the lower housing of the validator.

**Step 5.**



Cycle the power on and off quickly until the stacker for the bill acceptor coasts into the out position. Using the can of air, blow out all of the following places.

**This completes all maintenance procedures.**

"We're Changing The Industry"

1400 NW 65<sup>th</sup> Place Fort Lauderdale, FL 33309      Tel: (954) 917-5963 Fax: (954) 917-5204      www.americanchanger.com