

Hamilton Manufacturing Corporation

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HCS II Programming Manual

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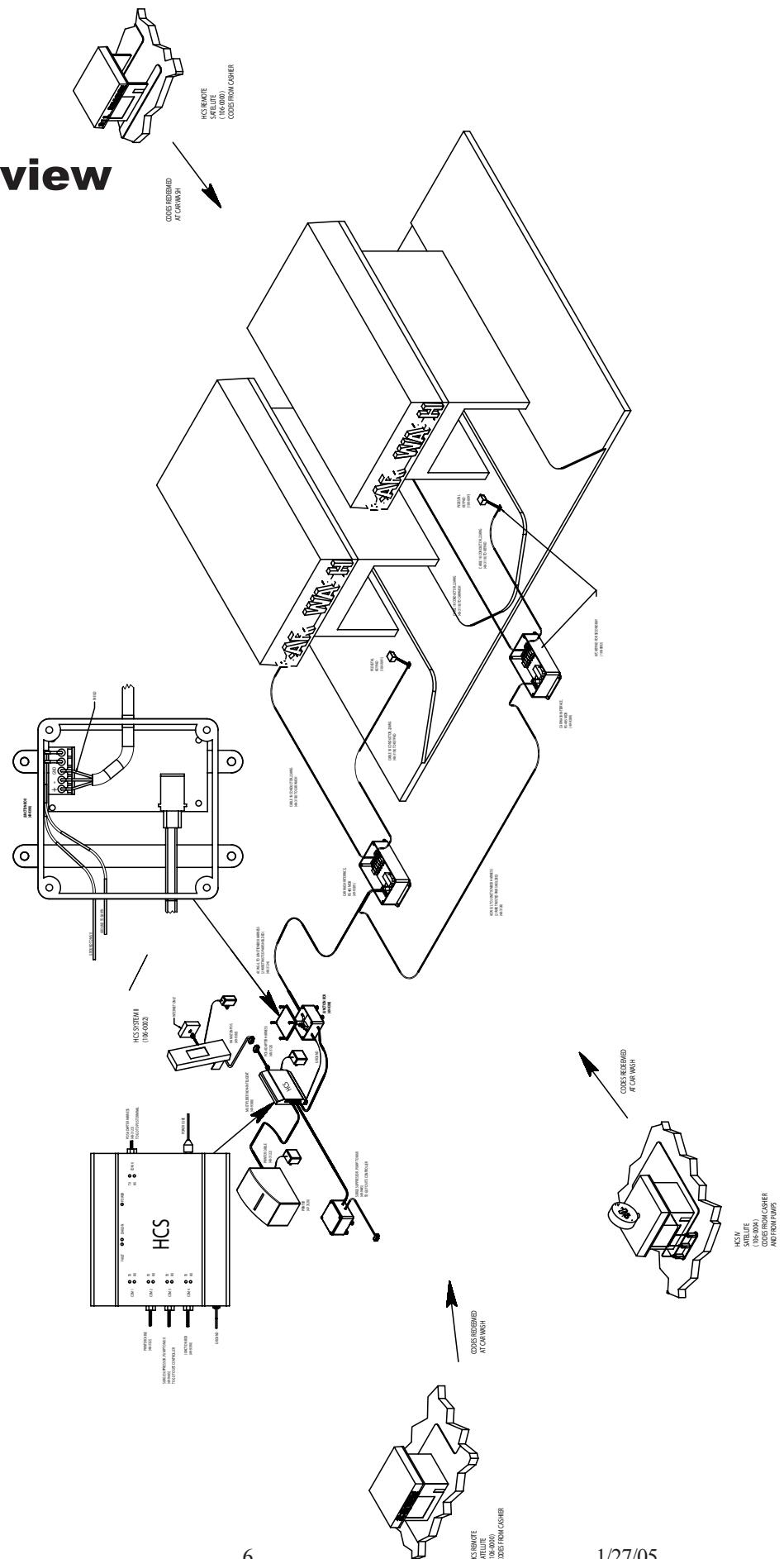
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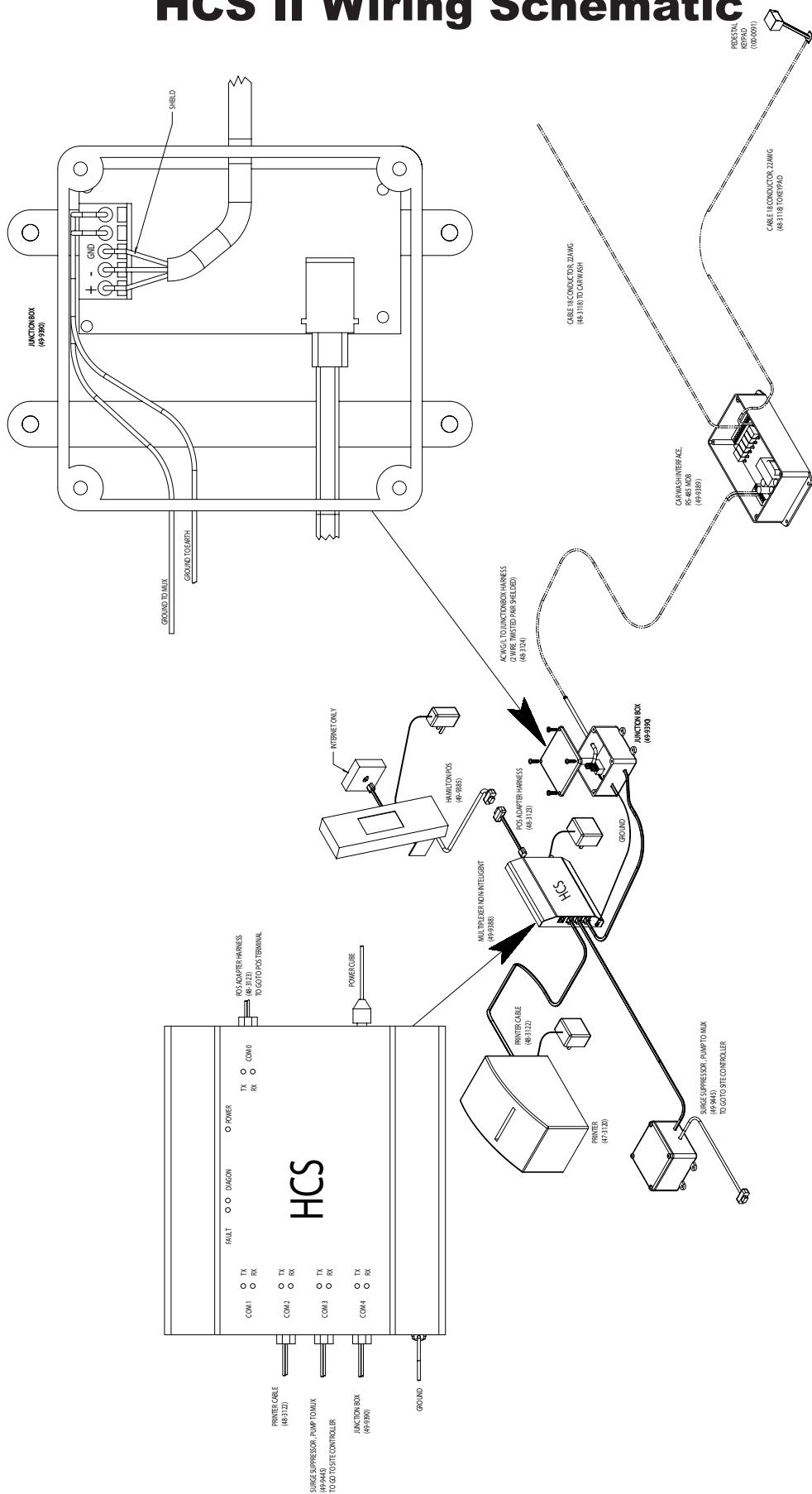
PREFACE

This manual is designed to guide you through the programming of your HCS IV POS unit. Each menu screen is represented as a separate page. For further information, please contact Hamilton's Technical Support Department at (800) 837-5561.

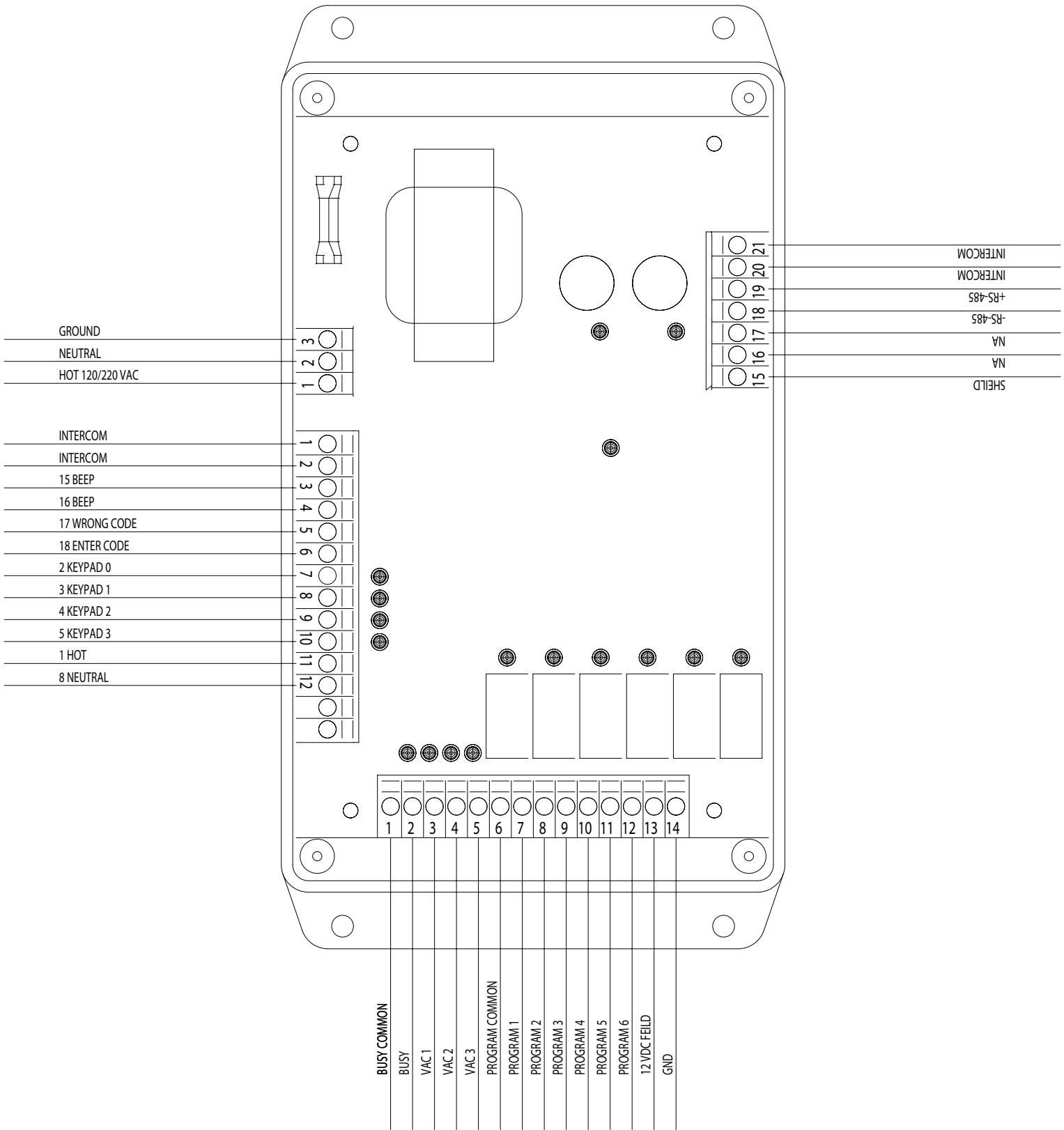
HCS II Overview



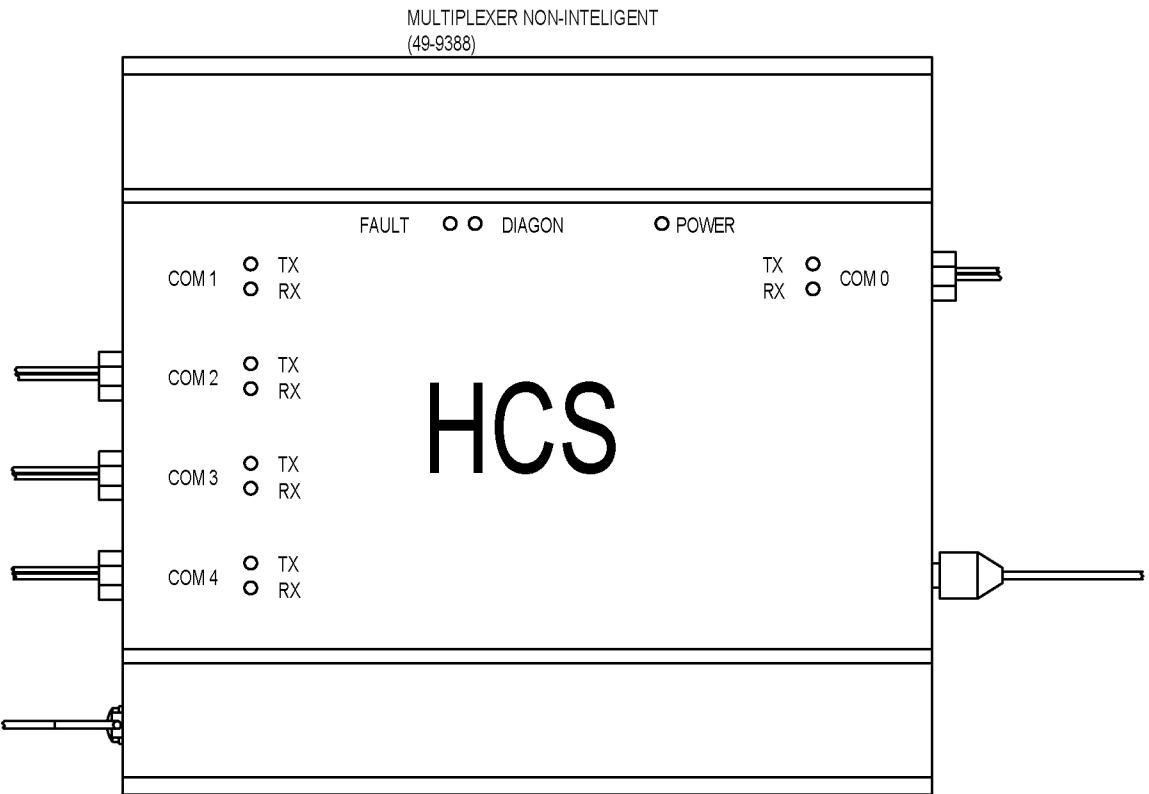
HCS II Wiring Schematic



Car Wash Interface

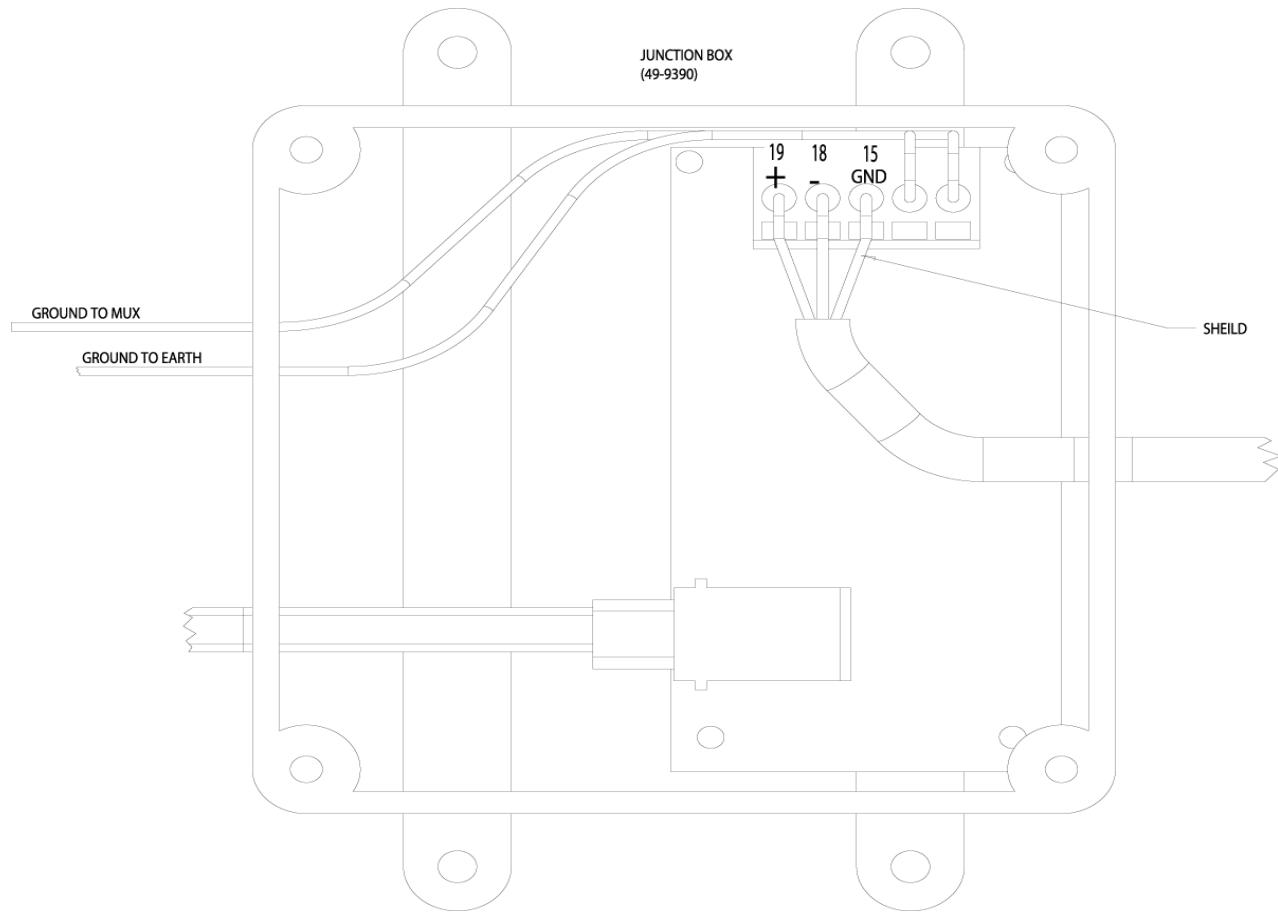


Multiplexer



- The PDA will always be plugged into COM 0.
- COM 1-3 can be changed in the PDA.
- Wash Interface will always be plugged into COM 4.
- COM 1-3 are a RS 232 port and COM 4 is a 485 port.
- **DO NOT** plug the black Internet cable coming from the PDA into any of the COM ports.

Wash Interface

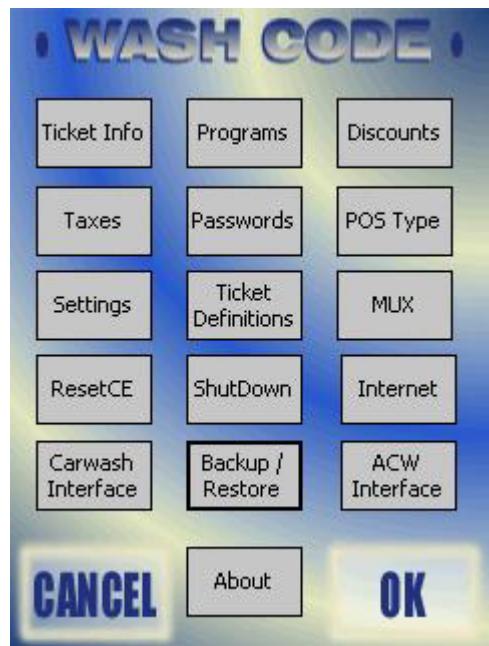


- Wash Interface: The communication line between the GL-ACW and the Wash Interface Box (Grey Box) is a two wire twisted shielded cable (White and Red). You will only use the Red and White wire in this configuration.
- **Very Important-** Whichever color you use in position #19 on your surge suppressor **MUST** match up to the positive "+" side (#19) in the wash interface box and the wire in position #18 on your surge suppressor **MUST** match up to the negative "-" side (#18) in the wash interface box.
- The first Interface box only had one ground wire coming out of it. That ground wire should be attached to the Multiplexer. The second Interface box that came out has two grounds coming off the box, one is for the Multiplexer and the second is for earth ground.

WASH CODE



SETUP



Ticket Information

Ticket Info		9:15a	ok
Valid Days:	3		
Address:	Hamilton Mfg.		
	1026 Hamilton Drive		
	Holland, Ohio		
	43528		
Telephone:	419-867-4858		
Footer:			
<input type="checkbox"/> Include barcode on printout?			
Printout language			
<input checked="" type="radio"/> English <input type="radio"/> French <input type="radio"/> Spanish			



- VALID DAYS is the amount of time an issued code is valid. The customer can set this field to their desired specifications.
- The address that is displayed in the boxes above will be displayed on the ticket given to the customer.
- The box entitled “Include barcode on printout” does not need to be selected unless it pertains to their setup.
- PRINTOUT LANGUAGE allows you to select the English or French language to be printed on the ticket.

Keyboard

Ticket Info 1:25p

Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	

Include barcode

The keyboard layout includes:
Row 1: 123, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, -, =, backspace
Row 2: Tab, q, w, e, r, t, y, u, i, o, p, [,]
Row 3: CAP, a, s, d, f, g, h, j, k, l, ;, '
Row 4: Shift, z, x, c, v, b, n, m, , ., /, backspace
Row 5: Ctl, áü, ^, \, arrow keys, and a small keyboard icon.

- In the bottom right hand corner of the screen, there is a symbol of a keyboard, selecting it will bring up a keyboard that will allow you to input the above information.

SETUP

Program Pricing

Program Pricing 9:16a ok

1	Wash 1	\$:	5
2	Wash 2	\$:	6
3	Wash 3	\$:	7
4	Wash 4	\$:	8
5		\$:	0
6		\$:	0

Standard Pricing 1-6 7-12

Fleet Pricing
 A B C
 High Low High/Low Time

Enable Euro Symbol

|

- By selecting the keyboard at the bottom of the screen it will allow you to input your wash names and wash prices.
- Next section is FLEET PRICING. This allows you to set different price groups (A, B or C) for your fleet codes. You may also use “Standard Pricing” for your fleet pricing.
- HIGH/LOW TIMES allows you to set two different pricings for each fleet group-a high and a low price. You will then be able to set the times that high or low pricing should be used, as well as being able to set when a code is not usable.
- The ENABLE EURO SYMBOL only changes the “\$” sign to the European sign for money.

Hamilton \$

Hamilton Pricing 9:48a

1:	\$:	<input type="text"/>
2:	\$:	<input type="text"/>
3:	\$:	<input type="text"/>
4:	\$:	<input type="text"/>

Teller ID:

- FIND TELLERS allows you to find all of your Hamilton Gold Line ACW's (Teller ID=ACW Unit Number).
- GET PRICES allows you to pull the prices and names from each of the Hamilton ACW's.
- You can change the prices from this screen but not the wash names.
- After changing the prices you can "Set Prices" back to the ACW. This is done one at a time!

SETUP

Discounts

Discount 1:	<input type="text" value="2"/>
Discount 2:	<input type="text" value="999"/>
Button 1:	<input type="text" value="With Gas"/>
Button 2:	<input type="text" value="NO Gas"/>
Button 3:	<input type="text" value="FREE"/>
Button 4:	<input type="text" value="ReWash"/>

Entering a discount value of 999 will force a free wash. Discount 1 is for Button1, Discount 2 is for Button 3.



- The value set in DISCOUNTS is the amount of discount off of a wash price.
- A value of 999 must be set to force a free wash. If another value is in DISCOUNT 2 then that will be the amount discounted on the washes you have set for DISCOUNT 2.
- Button 1-4 will be displayed on your sales window and the text that you input will be displayed in the box. You can input your own text by going to the bottom of the screen and selecting the keyboard symbol and input the text. If you do not input the text into a box you will have a blank box on your sales screen.
- DISCOUNT 1 is for Button #1 and DISCOUNT 2 is for Button #3.

SETUP

Taxes

Taxes 9:16a **ok**

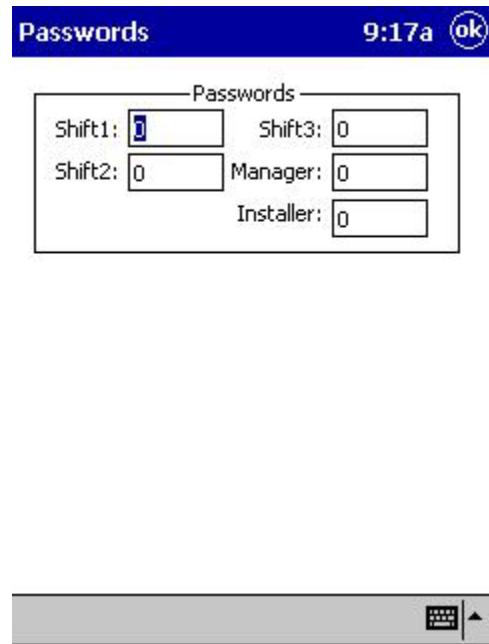
Tax1:	<input type="text"/>	Rate:	<input type="text"/> 0
#:	<input type="text"/>		
Tax2:	<input type="text"/>	Rate:	<input type="text"/> 0
#:	<input type="text"/>		
<input type="checkbox"/> Compound Taxes?			

| **▲**

- Taxes are only applicable to the car wash owner.
- Tax rates are set up in the cash register if you have a Pay-at-the-Pump situation.

SETUP

Password



- It is **VERY IMPORTANT** that if passwords are set that the appropriate personnel are aware of the codes and where to find them if they are forgotten.
- If a password is not selected then the default password is “0”.
- To input a numerical password select the keyboard symbol at the bottom of the screen.

SETUP

Configure POS Type

Config POS Type 9:47a **ok**

Satellite Code Length -
 5 Digits 6 Digits 7 Digits

Max Satellites: Reset Satellite

Max Progs: Master Address

Max Codes:

Network Mask:

Max Window:

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

OK | **▲**

- If this is the Master unit (connected to Gold Line ACW's) and there are no remote or Pay-at-the-Pump satellites, then your screen should look as displayed above.
- MAX SATELLITES is the number of satellites that the master will verify.
- MAX PROGS is the number of washes allowed.
- MAX CODES is amount of codes allowed per day. (This will automatically be calculated when MAX SATELLITES and MAX PROGS have a numerical input.)
- NETWORK MASK is a numerical code that links the Master and satellites together. *This code should be unique*.
- MAX WINDOW is the number of codes valid past the last code that was used.
- When setting up remote or Pay-at-the-Pump satellite with a Master then the information in the following categories must be the same; MAX SATELLITES, MAX PROGS, MAX CODES, and NETWORK MASK.

Config for Standard Remote

Config POS Type 1:05p **ok**

Satellite Code Length
 5 Digits 6 Digits 7 Digits

Max Satellites: Reset Satellite

Max Progs: Master Address

Max Codes:

Network Mask:

Max Window:

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

- If you are using a “Standard Remote,” then select the “7” digit satellite code length and input the numerical values for your setup. (Make sure you have also selected a satellite.)
- By adding more Max Satellites it changes the number of Max Codes allowed per day.
- You are allowed up to 10 Standard 7 digit remotes.
- Note: If you are using a Standard Remote 7 digit satellite code length then your Local code size (see settingspage) can be either 5 or 6 digit.

Config for Pay-at-the-Pump

Config POS Type 1:09p **ok**

Satellite Code Length
 5 Digits 6 Digits 7 Digits

Max Satellites:

Max Progs:

Max Codes:

Network Mask:

Max Window:

Satellite 1
 Satellite 2
 Satellite 3
 Satellite 4

- If you are using a “Pay-at-the-Pump Remote” then select “5” or “6” digit satellite code length and input the numerical values for your setup. (Make sure you have selected a satellite.)
- By adding more Max Satellites it changes the number of Max Codes allowed per day.
- You are allowed up to 4 Pay-at-the-Pump remotes for either a 5 or 6 digits..
- NOTE: It is suggested that you set the Max Satellites to four and then only check the Satellites that are used. This will make it easier to add new Satellites without deleting valid codes.
- Note: If you are using a PAP remote 5 digit satellite code length then your Local code size (see settings page) must be set to 5 digit.
- Note: If you are using a PAP remote 6 digit code length then your Local code size (see settings page) must be set to 6 digit.
- Note: The length of the PAP remote satellite code length and Local code size will be determined by the site controller used with PAP system.

SETUP

Settings

Settings 11:46a **ok**

Local Code Size	Drive-Off: <input type="text" value="1200"/> <input checked="" type="radio"/> 5 <input type="radio"/> 6 Goodwash: <input type="text" value="50"/>
<input checked="" type="checkbox"/> Fleet Sales <input checked="" type="checkbox"/> Allow Stacking <input type="checkbox"/> Allow CE Wash Start <input type="text" value="1"/> Cars <input type="checkbox"/> Enable Auto Start <input type="checkbox"/> Report slave sales per shift <input type="button" value="Clear"/> <input type="checkbox"/> Report PAP sales per shift <input type="button" value="Report #"/> <input type="checkbox"/> Use Emergency Codes <input type="button" value="Shuffle"/> <input type="checkbox"/> Show wash bay status on sales screen	

- Local Code Size allows you to set the length of code that will be issued at the Master site.
- FLEET SALES may be selected if you are going to allow fleet sales.
- ALLOW STACKING may be selected if you are going to allow stacking.
- DRIVE-OFF It is the amount of time given to reset the wash if the wash never starts after being activated. (Example: someone buys a wash (Activates it)and leaves without entering bay and starting wash)
- GOODWASH is the minimum amount of time to define that a wash is good. (Example: A customer activates the wash, enters the bay and starts the wash, but rolls off the treddle). The time entered in the GoodWash category decides if the length of the wash was activated qualifies as a good wash.
- The GoodWash and Drive-off time is entered in 1/10 of a sec. (i.e 50 = 5 seconds)
- The other categories that are not selected should only be selected if it pertains to their wash setup.

SETUP

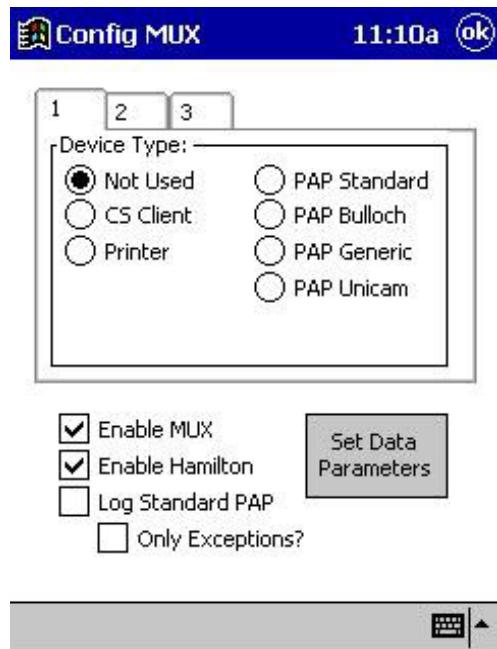
Ticket Definitions

	1	2	3	4
Wash 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wash 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wash 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wash 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Discount:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- This assigns the text (Wash Name) to the Wash Package.
 - NO DISCOUNT allows you to select a wash package and NOT give a discount for that wash package.

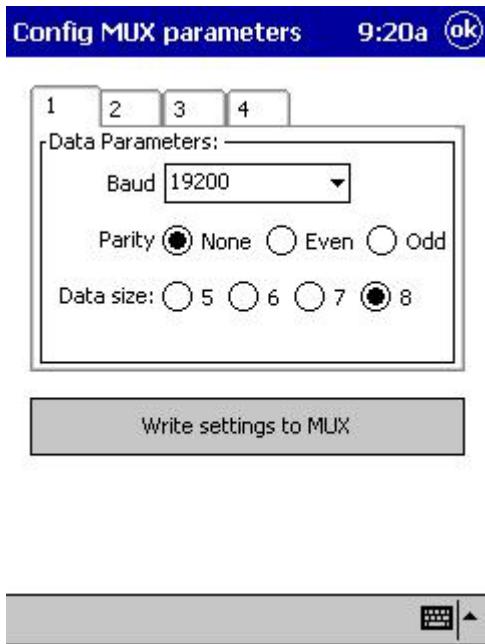
SETUP

Configure MUX



- This screen allows you to select the device you want going to the COM port on the Multiplexer.
- COM Port “0” is always for the PDA and COM Port “4” is always for the Interface box.
- 1-2-3 signifies the COM port on the MUX. You can have only one device for each COM port.
- The ENABLE MUX and ENABLE HAMILTON **must be selected** for the Wash Code System and GL-ACW to work together.
- Your device types must match the selections you have made on your MUX.

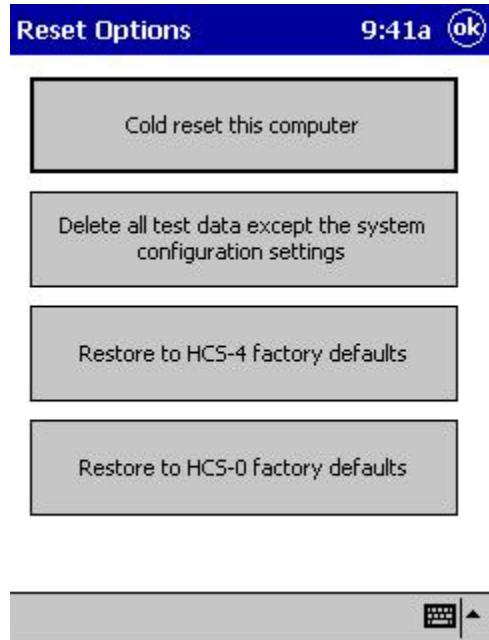
Set Data Parameters



- This screen allows you to set the Baud Rate, Parity and the Data Size.
- PARITY and DATA SIZE should not be changed. You may, however, change the Printer BAUD rate dependant on the individual system settings.
- If a change is made then select “Write settings to Mux” to change the setting in the Mux.

SETUP

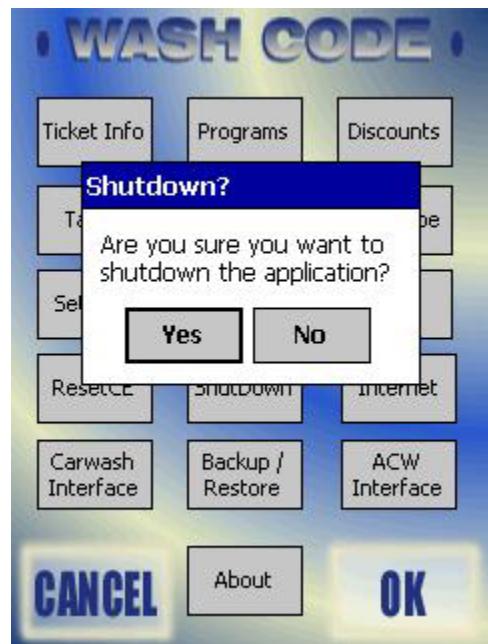
Reset CE



- COLD RESET THIS COMPUTER allows you to re-initialize the CE (PDA).
- DELETE ALL TEST DATA EXCEPT THE SYSTEM CONFIGURATION SETTINGS allows you to delete test data and save all system configuration settings.
- RESTORE TO HCS-4 FACTORY DEFAULTS allows you to restore your Wash Code program back to a factory master system.
- RESTORE TO HCS-0 FACTORY DEFAULTS allows you to restore your Wash Code program back to a factory Satellite/Pay-at-the-Pump/Remote system.

SETUP

Shutdown



- This allows you to shut down the Wash Code Program.

SETUP

Internet Configuration

Internet Config 9:42a 

SMTP:

FTP:

User: Pass:

Site Email Address:

Email Backups

To:

Enable Internet Site ID:
 Enable LAN
 OffHours
 Enable FTP In
 Enable FTP Out





- This allows you to set up an Internet connection.

SETUP

Carwash Interface

Carwash Interface 11:38a

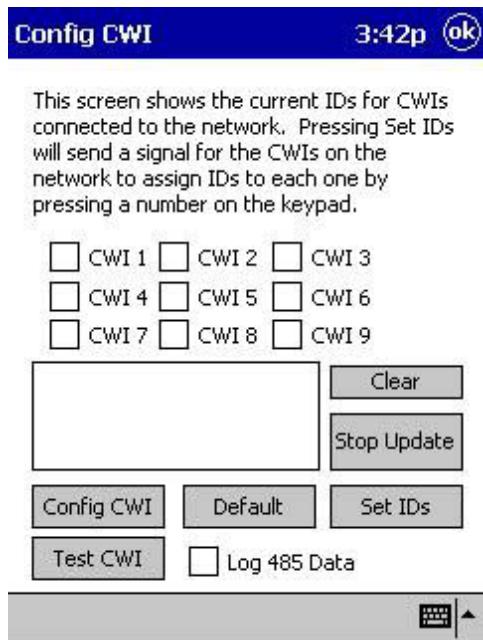
Prog. ->	1	2	3	4
Relay 1:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relay 2:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relay 3:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Relay 4:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Relay 5:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relay 6:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1 Shot Time
20

1-4 5-8 9-12

- PROG. (Program) associates to the wash package and RELAY X associates to the relay that will be fired by that wash package. Example: Wash #1 will fire Relay #1.
- 1 SHOT TIME is to be selected for the relay firing sequence. 20 equal 2 seconds.
- 1-4 is selected to match the Wash packages.
- CONFIG CAR WASH INTERFACE (CWI) see page 29 for details

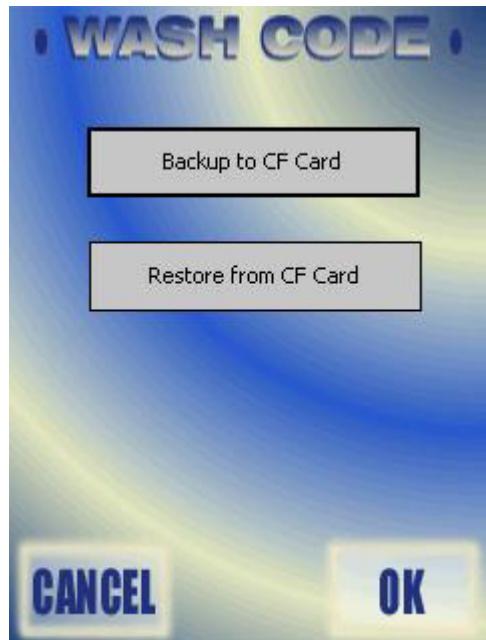
Config. Car Wash Interface



- Clear allows you to clear the lines of data in the text box to the left
- Stop Update allows you to stop an update that is in process
- Set ID's allows you to give each of your entry keypads an ID number. **THIS MUST BE DONE.** When you select Set ID's all of your lights on your Entry keypad will light up, at this point you will select a number on that keypad and press it. (You have just selected it's ID) That selection will come back and check mark the appropriate CWI box. (i.e if you selected #1 then CWI 1 will have a check mark in the box). If you have multiple entry keypads you will have to give each one their own ID number.
- Default resets the CWI back to factory settings. (GoodWash and Drive-Off)
- Config CWI by pressing button it configures your CWI (Car Wash Interface) and should be done after any changes that are made to the Interface setup (i.e Set ID's)
- Test CWI allows you to send commands to any of your CWI's. This test is used for checking the lights on the unit and setting it to an Open or Closed state.

SETUP

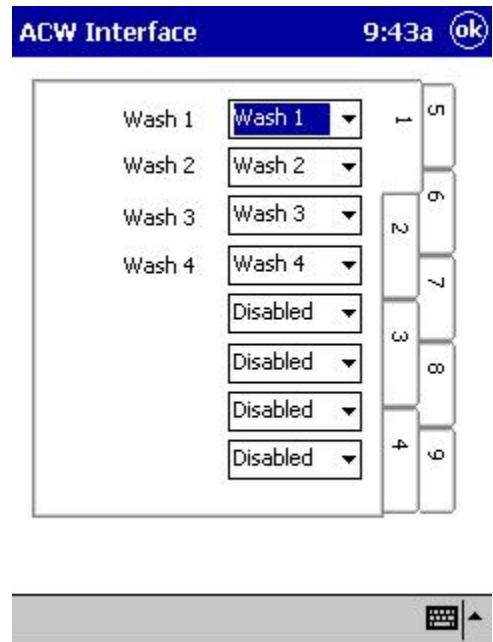
Backup/Restore



- This screen allows you to backup or restore information from a CF Flash card.

SETUP

ACW Interface



- This allows you to map your Wash Names (text) to the wash package it will fire. You can link up to nine GL-ACW's on one Hamilton Code System IV.

SETUP

About

About

10:15a 

Copyright (C) 2002
Hamilton Manufacturing

HCS-4
Version 4.01

Warning: This computer program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of the program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.

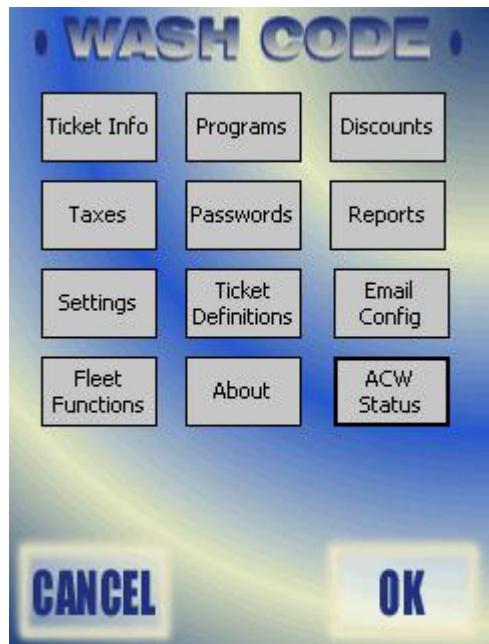


- This will give you the version of the Wash Code programmed installed.
- This will also state a warning of copyright laws and international treaties.

WASH CODE



ADMIN



ADMIN

Ticket Info

Ticket Info 9:15a 

Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	
<input type="checkbox"/> Include barcode on printout?	
Printout language	
<input checked="" type="radio"/> English <input type="radio"/> French <input type="radio"/> Spanish	

 | ▲

- VALID DAYS is the amount of time a code that is issued is valid. The customer can set this field to their desired specifications.
- The address that is displayed in the boxes above will be displayed on the ticket given to the customer.
- The box entitled “Include barcode on printout” does not need to be selected unless it pertains to their setup.
- PRINTOUT LANGUAGE allows you to select the English or French language to be printed on the ticket.

Keyboard

Ticket Info 1:25p

Valid Days:

Address:

Telephone:

Footer:

Include barcode

123 1 2 3 4 5 6 7 8 9 0 - = ←
Tab q w e r t y u i o p []
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ←
Ctl áü ^ \ ↓ ↑ ← →

- In the bottom right hand corner of the screen, there is a symbol of a keyboard, select that and it will bring up a keyboard that will allow you to input the above information.

Program Pricing

9:47a ok

1	Wash 1	\$:	5
2	Wash 2	\$:	6
3	Wash 3	\$:	7
4	Wash 4	\$:	8
5		\$:	0
6		\$:	0

Standard Pricing 1-6 7-12

Fleet Pricing
 A B C
 High Low High/Low Time

Enable Euro Symbol

|

- By selecting the keyboard at the bottom of the screen it will allow you to input your wash names and wash prices.
- Next section is FLEET PRICING. This allows you to set different price groups (A, B or C) for your fleet codes. You may also use “Standard Pricing” for your fleet pricing.
- HIGH/LOW TIMES allows you to set two different pricings for each fleet group-a high and a low price. You will then be able to set the times that high or low pricing should be used, as well as being able to set when a code is not usable.
- The ENABLE EURO SYMBOL only changes the “\$” sign to the European sign for money.

Hamilton \$

Hamilton Pricing 9:48a

1:	\$:	<input type="text"/>
2:	\$:	<input type="text"/>
3:	\$:	<input type="text"/>
4:	\$:	<input type="text"/>

Teller ID:

- FIND TELLERS allows you to find all of your Hamilton Gold Line ACW's (Teller ID=ACW Unit Number).
- GET PRICES allows you to pull the prices and names from each of the Hamilton ACW's.
- You can change the prices from this screen but not the wash names.
- After changing the prices you can "Set Prices" back to the ACW. This is done one at a time!

ADMIN

Discounts

Discounts 9:48a **ok**

Discount 1:	2
Discount 2:	999
Button 1:	With Gas
Button 2:	NO Gas
Button 3:	FREE
Button 4:	ReWash

Entering a discount value of 999 will force a free wash. Discount 1 is for Button1, Discount 2 is for Button 3.

[] | ▲

- The value set in DISCOUNTS is the amount of discount off of a wash price.
- A value of 999 must be set to force a free wash. If another value is in DISCOUNT 2 then that will be the amount discounted on the washes you have set for DISCOUNT 2.
- Button 1-4 will be displayed on your sales window and the text that you input will be displayed in the box. You can input your own text by going to the bottom of the screen and selecting the keyboard symbol and input the text. If you do not input the text into a box you will have a blank box on your sales screen.
- DISCOUNT 1 is for Button #1 and DISCOUNT 2 is for Button #3.

ADMIN

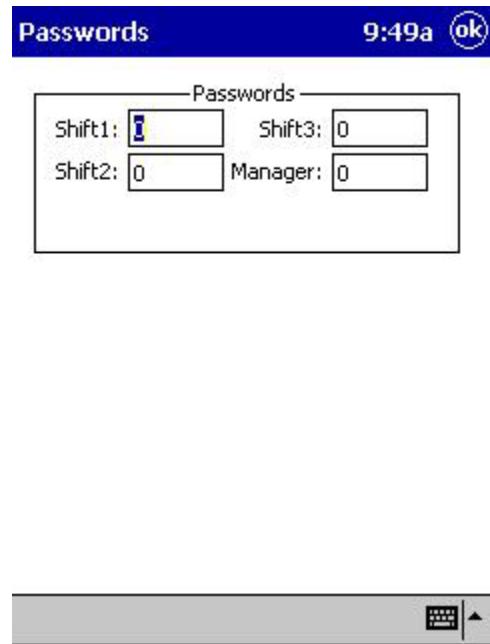
Taxes

Taxes	9:48a	ok
Tax1:	<input type="text"/>	Rate: <input type="text"/> 0
#:	<input type="text"/>	
Tax2:	<input type="text"/>	Rate: <input type="text"/> 0
#:	<input type="text"/>	
<input type="checkbox"/> Compound Taxes?		



- Taxes are only applicable to the car wash owner.
- Tax rates are setup in the cash register if you have a Pay-at-the-Pump situation.

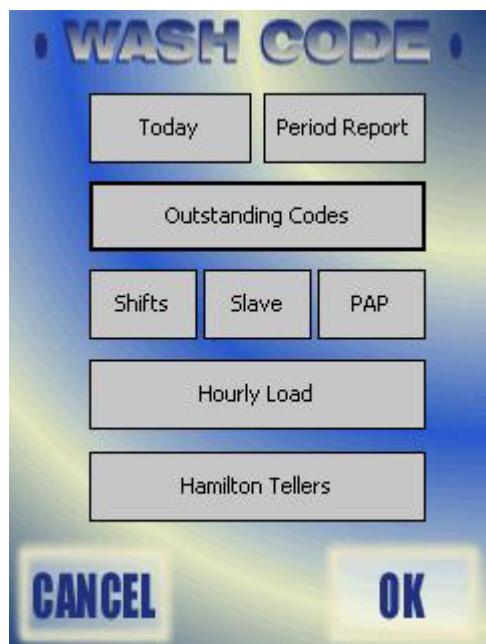
ADMIN Passwords



- It is **VERY IMPORTANT** that if passwords are set that the appropriate personnel are aware of the codes and where to find them if they are forgotten.
- If a password is not selected then the default password is “0”.
- To input a numerical password select the keyboard symbol at the bottom of the screen.

ADMIN

Reports



Today Report

Hamilton Mfg.
1026 Hamilton Drive
Holland, Ohio
43528
419-867-4858

Period Sales Report

Report Sequence: 11

From: 7/28/03 00:00:00

To: 7/28/03 23:59:59

	NG	WG	FR	RE	TOTALS
super :	0	1	0	0	1 3.50
deluxe:	1	1	0	0	2 11.00
Wash 3:	0	0	0	1	1 0.00
Wash 4:	0	0	0	0	0 0.00
<hr/>					
Total:	1	2	0	1	4 14.50

Date: 7/28/03 17:01

- A “Today Report” will report the number of washes that were sold for each wash package and price and give a total of washes and prices.

Period Report Sold

- A “Period Sales Report” allows you to select a starting date and ending date and will report the number of washes that were sold for each wash package and price and give a total of washes and prices. By selecting the WASHED category you can retrieve the totals from the Master and any satellite (remote) that may be networked with the Master.

**Hamilton Mfg.
1026 Hamilton Drive**
Holland, Ohio
43528
419-867-4858

Period Sales Report
Report Sequence: 12
From: 7/28/03 00:00:00
To: 7/28/03 23:59:59

	NG	WG	FR	RE	TOTALS
super :	0	1	0	0	1 3.50
deluxe:	1	1	0	0	2 11.00
Wash 3:	0	0	0	1	1 0.00
Wash 4:	0	0	0	0	0 0.00
Total:	1	2	0	1	4 14.50

Date: 7/28/03 17:01

Period Report Washed

Hamilton Mfg.
1026 Hamilton Drive
Holland, Ohio
43528
419-867-4858

Period Usage Report
Report Sequence: 13
From: 7/28/03 00:00:00
To: 7/28/03 23:59:59

Redeemed from MASTER

TOTALS	
super wash:	1
deluxe was:	2
Wash 3:	1
Wash 4:	0
<hr/>	
Total:	4

Redeemed from Satellite POS#: 01

TOTALS	
super wash:	0
deluxe was:	0
Wash 3:	0
Wash 4:	0
<hr/>	
Total:	0

Redeemed from ALL

TOTALS	
super wash:	1
deluxe was:	2
Wash 3:	1
Wash 4:	0
<hr/>	
Total:	4

Date: 7/28/03 17:01

Outstanding Codes

- The “Outstanding Codes Report” shows any outstanding code that has passed its validation time.

**Hamilton Mfg.
1026 Hamilton Drive
Holland, Ohio
43528
419-867-4858**

Outstanding Codes Report

	<30	<60	<90	90+	TOTALS
super :	15	0	0	0	15
deluxe:	1	0	0	0	1
Wash 3:	2	0	0	0	2
Wash 4:	1	0	0	0	1
<hr/>					
Total:	19	0	0	0	19

Available Codes: 9964
Outstanding Codes: 19

 Used Codes: 10
 Expired Codes: 7
Cancelled Codes: 0
 Other Codes: 0

Date: 7/28/03 17:01

Shift Report

- An “All Shift Report” shows a total of all washes sold for each wash package and price and gives a total of washes and prices for all shifts.

Hamilton Mfg.
1026 Hamilton Drive
Holland, Ohio
43528
419-867-4858

All Shift Report: 1-3

Report Sequence: 17

From: 6/2/03 11:00:00

To: 7/28/03 17:01:55

	NG	WG	FR	RE	TOTALS
super :	0	26	0	0	26 87.50
deluxe:	1	4	0	0	5 1311.00
Wash 3:	0	2	1	1	4 10.00
Wash 4:	0	1	0	0	1 6.00
Total:	1	33	1	1	36 1414.50

Date: 7/28/03 17:01

Slave Report

- “Slave Sales Report” will report the totals of washes and prices from the Satellites that are networked to the Master.

**Hamilton Mfg.
1026 Hamilton Drive**

Holland, Ohio

43528

419-867-4858

Slave Sales Report

Report Sequence: 18

From: 7/28/03 17:01:58

To: 7/28/03 17:01:58

	NG	WG	FR	RE	TOTALS
super :	0	0	0	0	0 0.00
deluxe:	0	0	0	0	0 0.00
Wash 3:	0	0	0	0	0 0.00
Wash 4:	0	0	0	0	0 0.00
<hr/>					
Total:	0	0	0	0	0 0.00

Date: 7/28/03 17:01

Pay-at-the-Pump Report

- “PAP Sales Report” will report total number of washes and prices accepted at the gas pumps.

**Hamilton Mfg.
1026 Hamilton Drive**
Holland, Ohio
43528
419-867-4858

PAP Sales Report
Report Sequence: 19
From: 7/28/03 17:02:01
To: 7/28/03 17:02:01

	NG	WG	FR	RE	TOTALS
super :	0	0	0	0	0 0.00
deluxe:	0	0	0	0	0 0.00
Wash 3:	0	0	0	0	0 0.00
Wash 4:	0	0	0	0	0 0.00
<hr/>					
Total:	0	0	0	0	0 0.00

Date: 7/28/03 17:02

Hourly Load Report

- “Hourly Load Report” shows the total number of washes sold each hour.

**Hamilton Mfg.
1026 Hamilton Drive**
Holland, Ohio
43528
419-867-4858

Hourly Usage Report
Report Sequence: 10
From: 7/28/03 00:00:00
To: 7/28/03 23:59:59

	TOTAL	Relative Hourly Load
00:00	0	
01:00	0	
02:00	0	
03:00	0	
04:00	0	
05:00	0	
06:00	0	
07:00	0	
08:00	0	
09:00	0	
10:00	0	
11:00	0	
12:00	0	
13:00	0	
14:00	0	
15:00	0	
16:00	4	***** 100%
17:00	0	
18:00	0	
19:00	0	
20:00	0	
21:00	0	
22:00	0	
23:00	0	
Total:	4	

Date: 7/28/03 17:01

- Selecting HAMILTON TELLERS allows you to pull an Audit report from the GL-ACW by inputting the Teller ID. It displays the information on the PDA and then can be printed.

```
*****+
AUDIT REPORT Unit #1
MON 06-21-04 01:33 P
*****+
Item Name Price
1 WASH $1.00
2 WASH & WRX $2.00
3 WASH, WRX, & DRY $3.00
4 SUPER WASH $4.00

*****+
CASHIER SALES DATA
MON 06-21-04 01:33 P
*****+
Wash 1 Resettable Perpetual
Qty Sold 0 .65
Cash $0.00 $0.00
Tokens $0.00 $0.00
Codes $0.00 $121.00
PL Cards $0.00 $0.00
Cr Cards $0.00 $0.00
Total $0.00 $121.00

Wash 2 Resettable Perpetual
Qty Sold 0 .46
Cash $0.00 $0.00
Tokens $0.00 $0.00
Codes $0.00 $127.00
PL Cards $0.00 $0.00
Cr Cards $0.00 $0.00
Total $0.00 $127.00

Wash 3 Resettable Perpetual
Qty Sold 0 .36
Cash $0.00 $0.00
Tokens $0.00 $0.00
Codes $0.00 $129.00
PL Cards $0.00 $0.00
Cr Cards $0.00 $0.00
Total $0.00 $129.00

Wash 4 Resettable Perpetual
Qty Sold 0 .34
Cash $0.00 $0.00
Tokens $0.00 $0.00
Codes $0.00 $143.00
PL Cards $0.00 $0.00
Cr Cards $0.00 $0.00
Total $0.00 $143.00

Totals Resettable Perpetual
Qty Sold 0 181
Cash $0.00 $0.00
Tokens $0.00 $0.00
Codes $0.00 $520.00
PL Cards $0.00 $0.00
Cr Cards $0.00 $0.00
Total $0.00 $520.00
Overpaid $0.00 $0.00

Last cleared on MON 06-21-04 01:33 P

*****+
TRANSACTION SUMMARY
MON 06-21-04 01:33 P
*****+
Transaction Resettable Perpetual
$20 Bill 0 0
$10 Bill 0 0
$5 Bill 0 0
$2 Coin 0 0
$1 Bill 0 1
$1 Coin 0 0
Quarter 0 0
Token Coin 1 0 0
Token Coin 2 0 0
Tokennotes 0 0
#1 Coupons 0 0
#2 Coupons 0 0
#3 Coupons 0 0
#4 Coupons 0 0
Hopper 0 0
Cr Cards 0 0
PL Cards 0 0
Codes 0 181

*****+
RECONCILIATION OF CURRENT CASH
MON 06-21-04 01:33 P
*****+
Bills Deposited $0.00
Coins Deposited $0.00
Coins Dispensed $0.00
Net Coins $0.00
Cashier Balance $0.00
End of Audit Report
```

ADMIN

Settings

Settings 11:46a

Local Code Size	Drive-Off:	1200
<input checked="" type="radio"/> 5 <input type="radio"/> 6	Goodwash:	50
<input checked="" type="checkbox"/> Fleet Sales <input checked="" type="checkbox"/> Allow Stacking		
<input type="checkbox"/> Allow CE Wash Start		<input type="text" value="1"/> Cars
<input type="checkbox"/> Enable Auto Start		
<input type="checkbox"/> Report slave sales per shift		<input type="button" value="Clear"/>
<input type="checkbox"/> Report PAP sales per shift		<input type="button" value="Report #"/>
<input type="checkbox"/> Use Emergency Codes		<input type="button" value="Shuffle"/>
<input type="checkbox"/> Show wash bay status on sales screen		

- Local Code Size allows you to set the length of code that will be issued at the Master site.
- FLEET SALES may be selected if you are going to allow fleet sales.
- ALLOW STACKING may be selected if you are going to allow stacking.
- DRIVE-OFF It is the amount of time given to reset the wash if the wash never starts after being activated. (Example: someone buys a wash (Activates it)and leaves without entering bay and starting wash)
- GOODWASH is the minimum amount of time to define that a wash is good. (Example: A customer activates the wash, enters the bay and starts the wash, but rolls off the treddle). The time entered in the GoodWash category decides if the length of the wash was activated qualifies as a good wash.
- The GoodWash and Drive-off time is entered in 1/10 of a sec. (i.e 50 = 5 seconds)
- The other categories that are not selected should only be selected if it pertains to their wash setup.

ADMIN

Ticket Definitions

- This assigns the text (Wash Name) to the Wash Package.
 - NO DISCOUNT allows you to select a wash package and NOT give a discount for that wash package.

ADMIN

Email Configuration

Reporting Config 9:50a 

Select reports to send out:

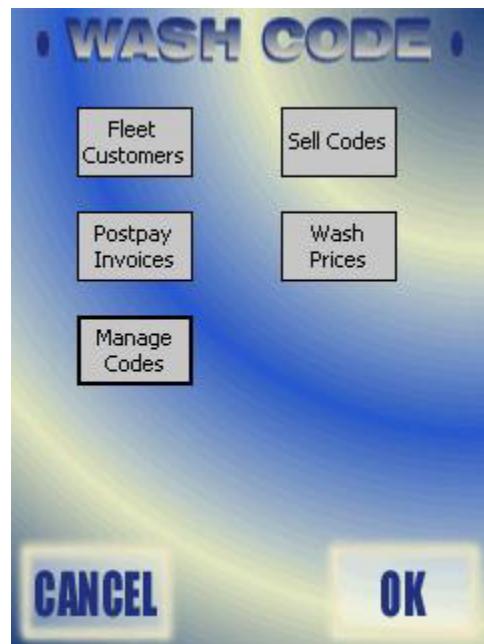
Sold	Used	Email Address(es)
<input type="checkbox"/> Daily	<input type="checkbox"/>	
<input type="checkbox"/> Weekly	<input type="checkbox"/>	
<input type="checkbox"/> Monthly	<input type="checkbox"/>	
<input type="checkbox"/> Yearly	<input type="checkbox"/>	



- This allows you to email individual Daily, Weekly, Monthly and Yearly reports on what was sold or what was used.

ADMIN

Fleet Functions



- This section will allow you to set up a fleet customer, sell that customer a code, initiate postpay invoices, check wash prices and manage fleet codes.

Fleet Customers

Fleet Customer Info 9:51a 

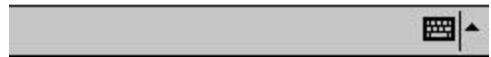
Name:

Address:

Telephone:

Fax:

Email:



- This allows you to enter personal information on the fleet customer.
- From this screen you can delete a fleet customer, print the information and input a new customer.
- Select the “Pricing” box to set pricing for this fleet customer.

Fleet Pricing

Fleet Customer Info 8:24a **ok**

Postpay Credit
 On Credit Hold

Program Mask:
1 2 3 4 5 6 7 8 9 10 11 12

Price Group:
▼
Standard
A
B
C

 | ▲

- To setup a fleet account as a postpay account, check the POSTPAY box. Leaving that box blank will automatically setup the account as prepay.
- Then select PROGRAM MASK. PROGRAM MASK is the wash package and it must be selected to assign a wash package to this account. (You can select as many or as little wash packages as you have.)
- “Standard” pricing is the default setting. If you would like to use a price group, select the group letter from the pull down menu.

Sell Codes

Fleet Sales 9:51a **ok**

Customer:

Code: Random Card#:
0 0

Program Mask:
1 2 3 4 5 6 7 8 9 10 11 12

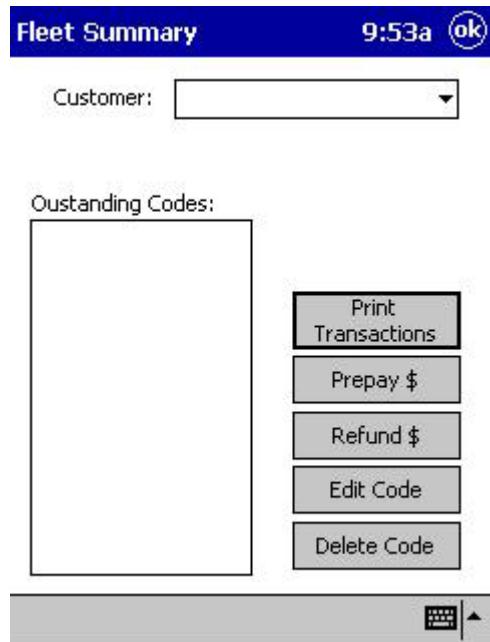
Issue Code

Manage Customers

Manage Codes

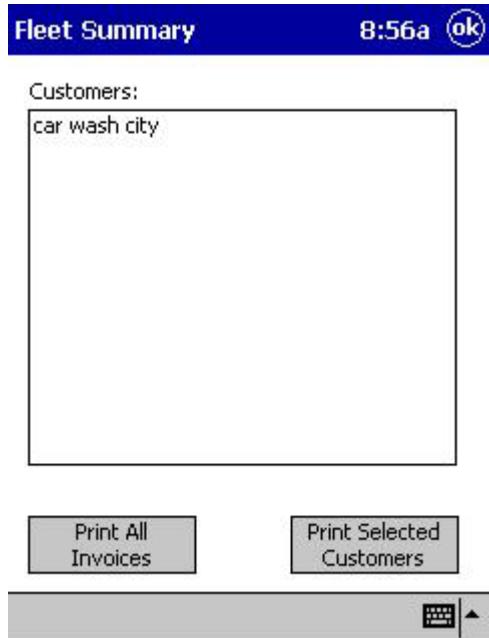
- The customer name **MUST** be displayed in the CUSTOMER window when you are setting a fleet code for a customer.
- The code length will either be a four digit or five digit number depending on the system you are using. You will input the desired number in the CODE box.
- RANDOM will input a random code to be issued.
- The program mask will self-fill since you have already inputted the data in pricing. The program mask is very important because the program mask is part of the code. Example if you input a code of 1234 when the ticket prints it will print *(which signifies a fleet code) 1234 then the customer will add the program mask (wash package as the last number. So *1234(1) will give the customer wash number 1.
- **ISSUE CODE must be selected** after all information is inputted. This button is what puts it into the system.
- **MANAGE CUSTOMERS** allows you to edit customer information.
- **CARD #** allows the number of a fleet card to be inputted and used (Hamilton has not initiated this yet).

Manage Codes



- This screen allows you to view a customers' codes.
- PRINT TRANSACTIONS allows you to print a codes invoice.
- PREPAY allows you to add money to a customers account.
- REFUND allows you to refund money.
- EDIT CODE and DELETE CODE allows you to edit codes or delete codes.

Postpay Invoices



- This allows you to select one or more customers and print out their invoice.

Program Pricing

9:47a ok

1	Wash 1	\$:	5
2	Wash 2	\$:	6
3	Wash 3	\$:	7
4	Wash 4	\$:	8
5		\$:	0
6		\$:	0

Standard Pricing 1-6 7-12

Fleet Pricing
 A B C
 High Low High/Low Time

Enable Euro Symbol

|

- By selecting the keyboard at the bottom of the screen it will allow you to input your wash names and wash prices.
- Next section is FLEET PRICING. This allows you to set different price groups (A, B or C) for your fleet codes. You may also use “Standard Pricing” for your fleet pricing.
- HIGH/LOW TIMES allows you to set two different pricings for each fleet group-a high and a low price. You will then be able to set the times that high or low pricing should be used, as well as being able to set when a code is not usable.
- The ENABLE EURO SYMBOL only changes the “\$” sign to the European sign for money.

Hamilton \$

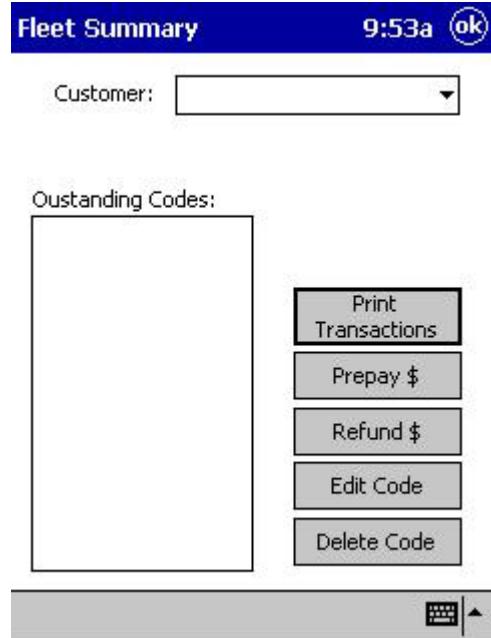
Hamilton Pricing 9:48a

1:	\$:	<input type="text"/>
2:	\$:	<input type="text"/>
3:	\$:	<input type="text"/>
4:	\$:	<input type="text"/>

Teller ID:

- FIND TELLERS allows you to find all of your Hamilton Gold Line ACW's (Teller ID=ACW Unit Number).
- GET PRICES allows you to pull the prices and names from each of the Hamilton ACW's.
- You can change the prices from this screen but not the wash names.
- After changing the prices you can "Set Prices" back to the ACW. This is done one at a time!

Manage Codes



- This screen allows you to view a customers' codes.
- PRINT TRANSACTIONS allows you to print a codes invoice.
- PREPAY allows you to add money to a customers account.
- REFUND allows you to refund money.
- EDIT CODE and DELETE CODE allows you to edit codes or delete codes.

ADMIN

About

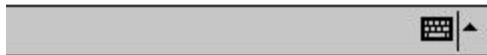
About

10:15a 

Copyright (C) 2002
Hamilton Manufacturing

HCS-4
Version 4.01

Warning: This computer program is
protected by copyright law and
international treaties. Unauthorized
reproduction or distribution of the program,
or any portion of it, may result in severe
civil and criminal penalties, and will be
prosecuted to the maximum extent possible
under the law.

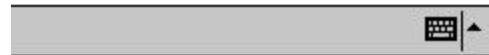


- This will give you the version of the Wash Code program installed.
- This will also state a warning of copyright laws and international treaties.

ADMIN

ACW Status

Busy State Logs 9:53a 



- This will allow the customer to see the status of all of their GL-ACW's.

Wash Code



1-2-3



1-2-3 Sell



- This allows the customer to select a wash with a discount, without a discount, free or rewash and issue a code.

1-2-3 Verify



- This allows you to input a code and check its status.

1-2-3 Report

Shift Report 9:55a ok

	FP	D1	Other
Wash 1	0	1	0
Wash 2	0	0	0
Wash 3	0	0	0
Wash 4	0	0	0
Grand Total:	\$ 3.00		
Tax 1:	\$ 0.00		
Tax 2:	\$ 0.00		

1-4 5-8 9-12



- This report screen will allow you to see how many washes were sold at full price, discounted price and at free/rewash.
- “FP” is full price, “D1” is discount 1 and “Other” is discount 2 or free.

1-2-3 Logoff



- This screen allows you to log off from your shift and print your shift report.

APPENDIX A

PDA Flash Card and Battery Installation

1. Main power to PDA should not be plugged in
2. Lay PDA face down and the remove the 4 screws in the back of it. Note: There is a screw in each corner.
3. Then separate the cover from the cradle (By pulling on the cradle and hanging on to the cover)
4. Then stand the cradle up with the PDA laying in it.
5. Remove modem from top of PDA and lay off to side.
6. Lay PDA face down.
7. Look for Battery Lock (It is in the center of the back of the PDA)
8. Slide switch from "Lock" to "Main"
9. Slide cover off.
10. Insert main battery into battery compartment. (Battery needs to drop straight in)
11. Replace main battery cover.
12. Slide Lock switch from "Main" over to "Back Up".
13. Turn PDA over and Battery Back Up cover will fall out
14. Insert battery (back up) into back up compartment. (Battery must slide under the lip of the opening making sure that the writing on battery is facing up. Battery will not charge if inserted incorrectly.)
15. Replace back up battery cover.
16. Slide the Lock switch to the "Lock" position. (Make sure you are in the middle because if you are not the PDA will not turn on)
17. Plug in main power into outlet.
18. Depress "Power" button on the left side of PDA.
19. Next screen displays: "Initializing Memory"
20. Then screen will display "Starting"
21. Next screen displays: "Welcome"
22. Tap on screen.
23. Next screen displays: "Align Screen" Tap and follow the cross tapping each cross in the

center of the cross.

24. Next screen displays: "Stylus" Read and Tap "Next"
25. Next screen displays: "Pop Up Menus" Tap and hold Appointment until; cut, copy, paste and delete screen appears. Tap "Cut"
26. Next screen displays: Tap and hold on 11AM Line until cut, copy, paste and delete screen appears. Tap "Paste"
27. Tap "Next"
28. Next screen displays: "Location" Tap pull down in right corner of location box and scroll till appropriate city appears. (Toledo, Ohio) Note: Not All City's are listed, so you will have to choose a city close to your city and time zone. Also when a city is selected the "Time Zone" automatically changes.
29. Tap "Next"
30. Next screen displays: "Complete" Tap screen.
31. Next screen displays: "Today Screen"
32. Insert flash card into top of PDA and press down. Note: Make sure that the arrow in the lower left hand corner is facing you and slides into PDA first.
33. Auto run will start.
34. Wait till process is complete and tap the "Ok"
35. The Today screen will still be showing
36. Remove flash card.
37. Depress "Reset Button" on back of PDA
38. Next screen displays: "Starting"
39. Next screen displays: "Clock Setting" **Caution: Home Clock Must Be Set Correctly!!**
40. Tap on keyboard at bottom of screen to change Time, Month/Date/Year
41. Tap "Ok"
42. You will be prompted to save your settings. Tap "Yes"
43. Next screen displays: "Wash Code htp" Tap "Ok"
44. Next screen displays: "Starting"
45. Wait about 5 seconds
46. Next screen displays: "Wash Code Program" 1/2/3 Admin/Setup
47. Tap "Setup"

48. Next screen displays: “Password” Tap “Ok”
49. Next screen displays: “Wash Code Programs” At the bottom of the screen tap “About” to check the version.
50. Tap “Ok”
51. Next screen displays: Wash Code Programs”
52. Insert Modem back into PDA. Note: Make sure cord runs up the back of the PDA in the center.
53. Slide cover back over cradle.
54. Replace all 4 screws.
55. Program PDA

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.

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.

(See next page for additional provisions)

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.

THIS AGREEMENT IS MADE WITH THE EXPRESS UNDERSTANDING THAT THERE ARE NO IMPLIED WARRANTIES THAT THE EQUIPMENT SHALL BE MERCHANTABLE, OR THAT THE GOODS SHALL BE FIT FOR ANY PARTICULAR PURPOSE. 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.

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