Hamilton Manufacturing Corporation

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HCS IV Programming Manual v3.10 or Higher

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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.





Document #101-0115

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 RS 232 ports 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: The communication line between the GL-ACW and the Wash Interface Box (Grey Box) is a two wire twisted pair shielded cable (White and Red).
- Connect the red wire to the positive "+" side (#19) in the wash interface box and it MUST match up to #19 on the surge suppressor. The white wire will connect to the negative "-" side (#18) in the wash interface box and it MUST match up to #18 on the surge suppressor. The shield must connect into #15 or GND 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 (shown above) has two grounds coming off the box, one is for the Multiplexer (chassis ground) and the second is for earth ground.

Distribution Panel



- The four pin connector plugs into #17 on the distribution panel. The ground wire attaches to the distribution wire cover.
- Connect the red wire to position #19 on the surge suppressor and it MUST match up to the positive "+" side (#19) in the wash interface box. The white wire will connect to #18 on the surge suppressor and it MUST match up to the negative "-" side (#18) in the wash interface box.
- The shield will NOT BE connected into the surge suppressor, it will be left disconnected. If you are daisy chaining two or more ACW's together you will then just twist the shielded cables together and at the last ACW it will be left disconnected.

WASH CODE



SETUP



Ticket Information

cket Info	9:15a (
Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	
	Include barcode on printout?
Printout lang	uage ————
English	🔿 French 🛛 🔘 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.

Ke	yboard
Ticket Info	1:25p 🥑
Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	
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 ; '
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. Selecting it will bring up a keyboard that will allow you to input the above information.

SETUP Program Pricing

Program Pricing	9	9:16a 🛞
1 Wash 1	\$:5	
2 Wash 2	\$:6	
3 Wash 3	\$:7	
4 Wash 4	\$:8	
5	\$:0	7
6]\$:0	ī
Standard Pi	ricing 🖲 1	-6 () 7-12
Fleet Pricing A B High L	O C ow High/	Low Time
Enable Euro	o Symbol	Hamilton \$
		■ ^

- By selecting the keyboard at the bottom of the screen you can 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 price settings 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:	\$:
2:	\$:
3:	\$:
4:	\$:
Teller ID:	Find Tellers Set Prices
	■ •

- 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

9:16a 🛞		Discounts
	2	Discount 1:
	99 <mark>9</mark>	Discount 2:
s	With Gas	Button 1:
	NO Gas	Button 2:
	FREE	Button 3:
	ReWash	Button 4:
of 999 will force a or Button1,	int value of punt 1 is for Button 3.	Entering a discou free wash, Disco Discount 2 is for
E	Button 3.	Discount 2 is for

- 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 🐟
Tax1:	Rate: 0
#:	
Tax2:	Rate: 0
#:	
	mpound Taxes?

- 1



• Tax rates are set up in the cash register if you have a Pay-at-the-Pump situation.

SETUP Password

Passwords		9:17a 🛞
	Passwords —	
Shift1: 🔟	Shift3:	0
Shift2: 0	Manager:	0
	Installer:	0



- 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

Satellite Code I	Length ——	⑦ 7 Digits
1ax Satellites:	0	Recet
Max Progs:	0	Satellite
Max Codes:	0	1. 141 Sec. 21
etwork Mask:	0	Master
Max Window:	20	Hudicaa
Satellite 1		Satellite 6
Satellite 2		Satellite 7
Satellite 3		Satellite 8
Satellite 4		Satellite 9
Satellite 5		Satellite 10

- If this is the Master unit (connected to Gold Line ACW's) and there are no remote or Pay-atthe-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 the 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. *<u>This</u> code should be a unique five or six digit number.*

NOTE: The largest network number that can be inputted is 524287.

- 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, the information in the following categories must be the same; MAX SATELLITES, MAX PROGS, MAX CODES, and NETWORK MASK.

Config for Standard Remote



- 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



- 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 🔶
Local Code Size - Drive-Off:	1200 50
Fleet Sales Allow Allow CE Wash Start Enable Auto Start	w Stacking Cars
Report slave sales per shift	Clear Report #
Use Emergency Codes	Shuffle
Show wash bay status on sa	ales screen



- Local Code Size allows you to set the length of code that will be issued at the Master site.
- FLEET SALES should be selected if you are going to allow fleet sales.
- ALLOW STACKING should be selected if you are going to allow stacking.
- DRIVE-OFF and GOOD WASH are used for Hamilton Code System II.
- The other categories that are not selected should only be selected if it pertains to their wash setup.

SETUP 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.

SETUP Configure MUX

Config MUX	11:10a
1 <u>2 3</u>	82
Not Used (PAP Standard
CS Client () PAP Bulloch
()	
Epable MUX	
Enable Hamilton	Set Data Parameters
Log Standard PA	p []
	ons?
	6

- 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

1 Data	2 a Parar	3 meters: -	4		
	Baud	19200 / 🖲 No		► Even (ጋርቀ
Da	ta size	:05	06()7 @)8
_					
	٧	Write set	tings to	MUX	

- 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

set Options	9:41a 💽
Cold reset this com	outer
Delete all test data except configuration setti	the system ngs
Restore to HCS-4 factor	y defaults
Restore to HCS-0 factor	y defaults

- 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

• WAS	eh co	DDE
Ticket Info	Programs	Discounts
Shutdo	own?	
Are yo shutdo	u sure you wa own the applic /es Nc	ant to cation?
Carwash	Backup /	ACW
	About	Interface
GANCEL	Moode	UK

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

SETUP Internet Configuration

Internet Config	9:42a 🕪
SMTP: FTP: User:	Pass:
Site Email Address:	
Enable Internet Enable LAN OffHours Enable FTP In Enable FTP Out	Site ID:
77-48.	

• This allows you to set up an Internet connection.

SETUP Carwash Interface

Carwash Interface	9:42a 🐟
Prog> 1 2 3 Relay 1: ♥ ● ● Relay 2: ● ● ● Relay 3: ● ● ● Relay 4: ● ● ● Relay 5: ● ● ● Relay 6: ● ● ●	4 1 Shot Time 20
● 1-4 ○ 5-8 (9-12
Config Car Wash I	nterface (CWI)
	₩

- 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 equals 2 seconds.
- 1-4 is selected to match the Wash packages.
- CONFIG CAR WASH INTERFACE (CWI) is only used for Hamilton Code System II.

SETUP Backup/Restore



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

SETUP ACW Interface

÷ ۵	H	Wash 1 📃 👻	Wash 1
		Wash 2 🔻	Wash 2
ູ່ໃ	N	Wash 3 🛛 🔻	Wash 3
		Wash 4 🛛 🔻	Wash 4
ť		Disabled 👻	
0	ſ	Disabled 👻	
-1_	H	Disabled 👻	
0 4	4	Disabled 👻	

• 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.





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

WASH CODE



ADMIN

VUAS		
licket Info	Programs	Discounts
Taxes	Passwords	Reports
Settings	Ticket Definitions	Email Config
Fleet Functions	About	ACW Status
ANCEL		OK

ADMIN Ticket Info

cket Info	9:15a
Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	
	Include barcode on printout?
Printout lang	uage
English	🔿 French 🛛 🔘 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 (ok			
Valid Days:	3				
Address:	Hamilton Mfg.				
	1026 Hamilton Drive				
	Holland, Ohio				
	43528				
Telephone:	419-867-4858				
Footer:					
	Include barcode				
123 1 2 3	4 5 6 7 8 9 0 - =	٠			
Tab q w e	rtyuiop[]			
CAP a s d	f g h j k l ; '				
Shift z x	C V b n m , / •	Ļ			
Ctl áü 🔪 🔪	↓↑ ←	→			

• 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.

Program Pricing

gram Pricin	g	9:47a	(ok
Wash 1	\$:5		
Wash 2	\$:6		
Wash 3	\$:7		
Wash 4	\$:8		
	\$:0		
]\$:[0		
Standard P et Pricing —	ricing 🖲	1-6 () 7-12	
High OL	ow Hig	h/Low Time	
] Enable Eur	o Symbol	Hamilton \$	20
	Wash 1 Wash 2 Wash 3 Wash 4 Standard P et Pricing A B High L	Wash 1 \$: 5 Wash 2 \$: 6 Wash 3 \$: 7 Wash 4 \$: 8 Wash 4 \$: 0 \$: 0 \$: 0 Standard Pricing \$: 0 • Standard Pricing • 6 • High • B • C • High • Low High	Wash 1 \$: 5 Wash 2 \$: 6 Wash 3 \$: 7 Wash 4 \$: 8 \$: 0 \$: 0 \$ \$: 0 \$: 0 \$ \$ Standard Pricing \$ 1-6 \$ 7-12 et Pricing \$ -6 \$ C High Low High/Low Time

- By selecting the keyboard at the bottom of the screen, you can 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 price settings 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:	\$:
2:	\$:
3:	\$:
4:	\$:
Teller ID:	Find Tellers
Get Prices	Set Prices
	=

- 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

Discount 1:	
]
Discount 2: 999]
Button 1: With Gas]
Button 2: NO Gas]
Button 3: FREE]
Button 4: ReWash	1
Entering a discount value of free wash. Discount 1 is for Discount 2 is for Button 3.	999 will force a Button1,
	, Imm

- 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 with the text you have entered. Select the keyboard at the bottom of the screen to input text. If you do not input 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 🐟
Tax1:	Rate: 0
#:	
Tax2:	Rate: 0
#:	
Con	npound 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

Passwords		9:49a	<u>ok</u>
Second Second	-Passwords —	ad 54	-
Shift1: 📘	Shift3:	0	
Shift2: 0	Manager:	0	
<u></u>		<u> </u>	
<u>.</u>			



- 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

• 1	VASH	CODE .
	Today	Period Report
	Outstar	iding Codes
[Shifts	ilave PAP
[Hou	rly Load
	Hamilt	on Tellers
CAN	CEL	OK

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 ****** FR RE TOTALS NG WG 0 0 1 Û 1 3.50super : Û 0 2 11.00 deluxe: 1 1 0.00 0 0 0 1 Wash 3: 1 0.00 Wash 4: 0 0 0 0 0 2 0 4 14.50 Total: 1 1 ******* 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 for a report of the number of washes sold for each wash package and price and the total of washes and prices for that period. By selecting the WASHED category you can retrieve the totals from the Master and any satellite (remote) that may be networked with the Master.



Report Sequence: 12 From: 7/28/03 00:00:00 To: 7/28/03 23:59:59 ******* WG FR RE TOTALS NG Û 0 3.50 super : 0 1 1 deluxe: 1 1 0 0 2 11.00 Û 0 0 1 0.00 Wash 3: 1 0 0 0.00 Wash 4: 0 0 0 Total: 1 2 0 1 4 14.50 ********

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	
Total:	4	

Redeemed from Satellite POS#: 01

	TOTALS	
super wash;	0	
deluxe was:	0	
Wash 3:	0	
Wash 4:	0	
Total:	0	

Redeemed from ALL

	TOTALS	
super wash:	1	
deluxe was:	2	
Wash 3:	1	
Wash 4:	0	
Total:	4	
*******	******	****

Outstanding Codes

• The "Outstanding Codes Report" shows any outstanding code that has passed its validation time.

 1026	lam 3 H	i] am Holl 419-	ton ilt and, 43528 867-4	M1 Onio 858	fg. Drive	
	Outs	tandi	ng Co	des R	eport	
****	*****	*****	****	****	****	
super : deluxe: Wash 3: Wash 4:	<30 15 1 2 1	<60 0 0 0 0	<90 0 0 0 0	90+ 0 0 0 0	TOTALS 15 1 2 1	
Total:	19	0	0	0	19	
****	****	****	****	*****	*****	
Available Codes: 9964 Outstanding Codes: 19 Used Codes: 10 Expired Codes: 7 Cancelled Codes: 0 Other Codes: 0 ************************************						

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.

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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	Ť	TALS
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

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

10	WU	FK	RE	10	ALS
0	0	0	0	0	0.00
0	0	0	0	0	0.00
0	0	0	0	0	0.00
0	0	0	0	0	0.00
0	0	0	0	0	0.00
	0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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 *********************************

super : deluxe: Wash 3: Wash 4:	NG O O O	WG O O O	FR 0 0 0	RE 0 0 0	TOTALS 0 0.00 0 0.00 0 0.00 0 0.00)))))
 Total: ****	 0 *****	0	0	0	0.00)

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 ***********

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

• 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.

Note: Depending on the version of Gold Line Controller you have, the report may look different.

AUDI	T REPORT Unit 06-21-04 01:33	#1 3 P
*********	********	*******
Item	Nane	Price
1	WASH	\$1.00
2	WASH & WAX	\$2.00
3 NRS	SUPER MOCH	\$3.00
1.1.1.1	SUPER AHSH	\$4.00

CASH	IER SALES DATE	1
MON ***********	05-21-04 01:33	5 P
that 1	Decettelle	0
Hash I	Resettable	Perpetual
Oty Sold	0	65
Tokens	\$0.00	\$0.00
Codes	\$0.00	\$121.00
PL Cards	\$0.00	\$0.00
otal	\$0.00	\$0.00
hab 0	Desettable	Duration
wash 2	Resettable	rerpetual
ity Sold	0 \$0 00	46
lokens	\$0.00	\$0.00
odes	\$0.00	\$127.00
L Cards	\$0.00	\$0.00
otal	\$0.00	\$0.00
heb 2	Pagatist	0
lash 3	resettable	Perpetual
ity Sold	0	36
lokens	\$0.00	\$0.00
odes	\$0.00	\$129.00
L Cards	\$0.00	\$0.00
fotal	\$0.00	\$0.00
	40.00	\$127.00
lash 4	Kesettable	Perpetual
ity Sold	0	34
okens	\$0.00	\$0.00
odes	\$0.00	\$143.00
L Cards	\$0.00	\$0.00
otal	\$0.00	\$0.00
otals	Resettable	Perpetual
		- er pecual
ash	\$0.00	181
okens	\$0.00	\$0.00
odes	\$0.00	\$520.00
L Cards	\$0.00	\$0.00
otal	\$0.00	\$520.00
verpaid	\$0.00	\$0.00
ast cleared o	n MON 06-21-04	01:33 P
TOOL		*********
MON	06-21-04 01:33	P
*********	**********	
ransaction	Resettable	Perpetual
\$20 Bill	0	0
\$10 Bill	0	0
\$2 Coin	0	0
\$1 Bill	0	i
\$1 Coin	0	0
oken Coin 1	0	0
oken Coin 2	0	0
okénotes	0	0
2 Coupons	0	0
3 Coupons	0	Ő
4 Coupons	0	0
riopper carde	0	0
L Cards	0	0
odes	0	181
*****	******	
RECONCIL I MON	ATION OF CURRE 06-21-04 01:33	NT CASH
********	*****	*******
ills Deposite	b	\$0.00
oins Deposite	d \$0.00	
orns Dispense	\$0.00	
et Coins		\$0.00
ishier Balanc	e	\$0.00
nd of Audit R	eport	

ADMIN Settings

Settings	11:46a 🔶
Local Code Size Drive-Off:	1200 50
Fleet Sales Allo Allow CE Wash Start Enable Auto Start	w Stacking Cars
Report slave sales per shift	Clear Report #
Use Emergency Codes	Shuffle
Show wash bay status on sa	ales screen

- **₩**
- Local Code Size allows you to set the length of code that will be issued at the Master site.
- FLEET SALES should be selected if you are going to allow fleet sales.
- ALLOW STACKING should be selected if you are going to allow stacking.
- DRIVE-OFF and GOOD WASH are used for Hamilton Code System II.
- 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 Conf	fig	9:50a	<u>ok</u>
Select reports to s	send out:		
Sold Used Daily Weekly Monthly Yearly	Email Addr	ess(es)	

- **₩**
- 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

Name:			+
Address:			
l	-		
lephone:			1.
Fax:			
Email:			
Delete	New	Print	Pricin

- 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 🛞
✓ Postpay	Credit	0 Tredit Hold
Program Mask: 1 2 3 4 5 Price Group: Standard A B C Cancel	678][9 10 11 12
		₩ *

- 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 few 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 🐟
Customer:	•
0 Random	Card#:
Program Mask: 1 2 3 4 5 6	7 8 9 10 11 12
Issue	e Code
Manage	Customers
Manag	e 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 input the data in PRICING. The program mask is very important because it is part of the code. Example: If you input a code of 1234, when the ticket prints it will print 1234 (which signifies a fleet code). 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 entered. This button puts the information 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

Eustomers:	
ar wash city	
	Print Selected

• This allows you to select one or more customers and print out their invoices.

Program Pricing

Pro	gram Pricing			9:47a	(ok
1	Wash 1]\$:	5		
2	Wash 2]\$:	6]	
3	Wash 3]\$:	7]	
4	Wash 4]\$:	8]	
5]\$:	0]	
6]\$:	0	Ī	
(Fle	Standard Pri eet Pricing — A OB	cing	● 1-) <	6 () 7-12	
	High O Lo	Sym	High/L	.ow Time Hamilton \$	
				E	

- By selecting the keyboard at the bottom of the screen you can 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 price settings 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:	\$:
2:	\$:
3:	\$:
4:	\$:
Teller ID:	Find Tellers
Get Prices	Set Prices
	≡ *

- 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

leet Summary	9:53a 🔘
Customer:	+
Oustanding Codes:	
	Print Transactions
	Prepay \$
	Refund \$
	Edit Code
1 1	01 01

- 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



- 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

usy State Logs	9:53a (ek
	press [

• This will allow the customer to view 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 🛞		
	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	0 5-8		O 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.



• 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

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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

APPENDIX B Basic Trouble Shooting for HCS IV

A) CODES NOT BEING ACCEPTED

1. Check the following in the EIC and Controller:

• In the EIC the HCS option must be activated.

Note: The HCS must be displayed on the Hand-held to signify the system is turned on in the EIC.

Example:

EIC VXXX HCS HAMILTON MFG. SERIAL #XXXXX 00:00 00/00/0000

- Check **"SET POS TYPE,"** this parameter should be set at either HCS 5 digit or HCS 6 digit depending on system configuration.
- Check "SET POS COM MODE", this parameter should be set to the ONLINE mode.
- Check **"SET UNIT NUMBER"**, this parameter allows you to set multiple machines up with a different unit number.

Note: In controller units 1.8 or lower the factory default for the unit number was 2, but in controller units 2.0 or higher the factory default for the unit number is 1.

2. Check communication wiring.

- Check the surge suppressor to make sure that it is plugged into #17 on the Distribution Board making sure that it is properly plugged in.
- Check to make sure that the wires are inserted into position number 19 and number 18 in the surge suppressor.
- Note: We recommend that a 1 pair shielded twisted cable wire is used to be run for the communication. Whatever color you use for the position number 19 must be attached to the positive side in the grey box (interface box) and the other color must be attached to number 18 which will attach to the negative side in the grey box. (These can be noted in two different ways +/- or 18, which is negative and 19, which is positive.)
- Check the connection in the grey box for proper installation. (See note above).
- Note: 3 seconds versus 10 seconds! A very big difference between the two. Example: Standing at the Gold Line you pick a 5-digit number (or 6 depending on how you have the controller set up and input it on the keypad if with in 3 seconds it goes to "Invalid Code" then you know that the Gold Line is communicating with the PDA. If you enter a 5-digit number (or 6) and it

takes 10 seconds to go "Invalid Code" then you are not communicating with the PDA.

Caution: You can be communicating with the PDA even if the PDA is not set up correctly.

3. Check the configuration of the Multiplexer:

- Check the connection of the PDA to the Multiplexer it needs to be in COM 0.
- Note: Make sure that they do not have the Modem cable connected into COM 0. The MUX-CE cable is connected at COM 0 and connected to 9 Pin D-Sub coming from the PDA.
- Check the connection of the grey interface box to the Multiplexer it needs to be in COM 4

Note: This COM port is a 485 port and is only used for the communication from the Gold Line to the PDA.



4. Check the PDA configuration:

• Check the PDA's internal clock, it must be set to the correct time zone (Home) depending on the location of the equipment.

Pocket Contr	roller 📃 🗖	
<u>File Edit V</u> iew	<u>T</u> ools <u>H</u> elp	-
🗄 😓 🚦 🎾	🥍 🗃 🎒 😽 🛪	
🎒 Settings	4:47p	(ok
Clock		
Home	Toledo, OH	•
. 12 .	GMT-5 Eastern US	
0 3	4 :47:57 PM	
Ĩ. ∖.ĭ	8 /11/2003	•
°6°		
O Visiting	Mobile, AL	*
. 12 .	GMT-6 Central US	*
9 3	3 :47:57 PM	
• •	8 /11/2003	*
· 6 ·	65	99.
Time Alarms		
	1	=
Connected on Active	eSync(USB)	

• Check the Multiplexer configuration in the PDA.

Note: That in a Master application both "Enable MUX" and Enable Hamilton" must be selected.

• Check that the correct COM port is associated with the connectors being connected to the Multiplexer.

Config MUX	11:10a
L 2 3 Device Type: — Not Used CS Client Printer	PAP Standard PAP Bulloch PAP Generic PAP Unicam
Foable MUX	
Enable Hox	ON Parameters

- Check the **Ticket Definition** in the PDA.
- Note: You are defining the text (wash name) to the wash package according to the way you have the washes set at the Gold Line.



• Check the **Settings** in the PDA.

Note: You want the Local Code Length to match the Code Length set in the controller under "POS TYPE".

Settings	11:46a 🛞
Local Code Size	1200 50
Fleet Sales Allow CE Wash Start Enable Auto Start	w Stacking] Cars
Report slave sales per shift	Clear Report #
Use Emergency Codes	Shuffle
Show wash bay status on sa	ales screen



• Check the **Ticket Info** in the PDA.

Note: You must have a valid numeric value.

icket Info	9:15a @
Valid Days:	3
Address:	Hamilton Mfg.
	1026 Hamilton Drive
	Holland, Ohio
	43528
Telephone:	419-867-4858
Footer:	
	Include barcode
_F Printout lang	uage
🖲 English	🔿 French 🛛 Spanish

• Check the **Program Pricing** in the PDA.

Note: Wash names and pricing should match what you have set up in your Hamilton Auto Cashier.

Pro	gram Pricing	ļ.		9:16a 🛞
1	Wash 1]\$:	5	
2	Wash 2]\$:	6	
3	Wash 3]\$:	7]
4	Wash 4	\$:	8]
5]\$:	0]
6]\$:	0	1
(Standard Pr	_ icing	1	6 () 7-12
	eet Pricing — A OB High OLo) w) C High/	Low Time
	_ Enable Euro	Sym	bol	Hamilton \$
				E

• Check the **Config POS Type** in the PDA.

Note: Make sure that Config POS Type is set up as Standard if there are no Satellites being utilized.

) (/ith PAP
ax Satellites:	1	Reset
Max Progs:	4	Satellite
Max Codes:	1082	1 4403620
etwork Mask:	1234	Master Address
Max Window:	20	Hodi 635
🖌 Satellite 1		
Satellite 2		
Catallita 2		
Satellite 3		

B) CODES WILL NOT PRINT

• Make sure that the correct Com is being used for the printer and PDA.



• If you have the Multiplexer already powered and then you plug in the PDA to the Multiplexer you may have to do a cold reset. Sometimes when plugging the PDA in hot, (with power on) you can generate a code but it will not print it until you have reset the PDA.

eset Options	9:41a 🖲
Cold reset this com	puter
Delete all test data except configuration setti	t the system ings
Restore to HCS-4 factor	y defaults
Restore to HCS-0 factor	y defaults

C) NO COMMUNICATION WITH THE CASH REGISTER:

• Check to make sure the register is mated up with a MUX-CE cable coming from COM 3 of the Multiplexer.



• Check to make sure that there is a Car Wash Program on the register and it is turned on to communicate with the PDA.

D) COMMUNICATION PROBLEM WITH MULTIPLE GOLD LINES:

• Example of a situation when you have 2 or more Gold Lines and neither (or all) of them are not excepting codes.

Note: You are sure that all programming and wiring is correct.

On Gold Line #1 you will unplug communication wire from #17 on the distribution board and then go and input a code into the keypad. If it does or does not accept the code we will unplug #17 on the distribution in Gold Line #2 and then plug in #17 in Gold Line #1 and repeat the code process.

Depending on the out come:

GL #1 did accept code GL #2 did not accept code Check EIC in GL #2

GL #1 did not accept code GL #2 did accept code Check EIC in GL #1

Note: That the most obvious choice will be the I.C. Chip in U3.

Please note that if you turn off a machine <u>YOU MUST WAIT</u> for the EIC transmit and receive light to return to flashing together before entering a code.

APPENDIX C COM Chips in the MUX



- The MUX has three sets of com chips-U1 & U2, U3 & U4, and U5 & U7.
- U1 & U2 should never be removed unless otherwise specified by the factory.
- U3 & U4 are com chips for the communication between the Gold Line Autocashier and the MUX.
- U5 & U7 are fro the communication between the pump side and the MUX.

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 EXCLU-SIVE 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 <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 nonconforming 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 Corp.

1026 Hamilton Drive Holland, OH 43528

Sales Phone: (888) 723-4858Sales Fax: (419) 867-4850Customer Service Phone: (800) 837-5561Customer Service Fax: (419) 867-4857Advanced Systems Phone: (866) 296-3365Advanced Systems Fax: (419) 867-4857Parts Phone: (866) 835-1721Parts Fax: (419) 867-4867Website: http://www.hamiltonmfg.comEmail Addresses:service@hamiltonmfg.comsales@hamiltonmfg.comparts@hamiltonmfg.cominfo@hamiltonmfg.com