



and User's Guide



WashComm

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Control

Programming

Software

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Introduction

What is WashComm?

WashComm is a software package designed to make programming and configuring Custom Control Systems Washer and Dryer controls quick, easy, and convenient. Instead of programming each control from the machine's front panel, you can set up your wash formulas on a portable computer and download them directly to your washer controls using the WashComm cable.

Getting Started

System Requirements

To install WashComm, you will need a portable or desktop computer that meets the following requirements:

- 486 (or better) processor
- 32 (or more) megabytes of RAM
- 3 free megabytes of hard drive space
- Microsoft Windows 95, 98, ME, 2000, XP or NT
- Mouse, trackball, or trackpad recommended

Installing WashComm

Insert the installation disk into drive 'A.' Go to the Start menu and select "Run...". When asked for the name of a program, folder, or document, type "a:\setup" and press [RETURN]. This will launch the WashComm installer, which will perform the rest of the installation process. The installer will automatically add a "WashComm" item to your start menu in the "Programs" section.

Launching WashComm

From the Start menu, choose the "Programs" folder, then the "WashComm" folder, and finally select the "WashComm" item in the "WashComm" folder.

WashComm's Main Screen

Toolbar

The toolbar gives you quick access to commonly used features of WashComm, like saving a file, printing a file, cut, copy, paste, adding an end step, inserting or deleting a step, or adding steps from an AutoProgram.

Programming Bar

The programming bar allows you to quickly and conveniently switch between different washers, formulas, or views. It contains a Washer selector, which lists all of the washers currently set up in WashComm, a View selector, which lets you quickly change between Formula, Step, I/O Assignment, Multi I/O Assignment, Option, Supply Calibration and Supply I/O Assignment views, and a Formula

selector, which lets you any of a washer's formu	d a Formula quickly access Jlas.		Machi	ne Sel	ector	V	iew S	elector Machine Selector
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in the main screen.		3	Alk-Flush	16 in	100°F	5:00	32	Cold, Mot-F, Mot-R, S1-20oz
		4	Drain	0 in	0°F	1:00	50	Drain, Mot-F, Mot-R
		5	Flush	16 in	150°F	2:00	32	Hot, Mot-F, Mot-R
		5	Drain Drain	UIN 10.:-	14005	15.00	50	Urain, Mot-F, Mot-R
		<u> </u>	Break Dusia	10 in	160°F	15:00	32	Hot, Steam, Mot-F, Mot-R, 52-2002
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		12	Drain	0 in	100 I	1.00	50	Drain Mot-F Mot-R
		13	Bleach	10 in	150°E	0:30	31	Hot. Steam, Mot-F. Mot-R
		14	Bleach	10 in	150°E	10:00	32	Hot, Mot-E, Mot-R, S1-20oz, S2-20oz
		15	Drain	0 in	0°F	1:00	50	Drain, Mot-F. Mot-R
		16	1st Rinse	16 in	135°F	2:00	32	Hot, Mot-F. Mot-R
		17	Drain	0 in	0°F	1:00	50	Drain, Mot-F, Mot-R
		18	2nd Rinse	16 in	120°F	2:00	32	Cold, Mot-F, Mot-R
		19	Drain	0 in	0°F	1:00	50	Drain, Mot-F, Mot-R
		20	AC Rinse	16 in	105°F	3:00	32	Cold, Mot-F, Mot-R, S3-20oz
		21	Drain	0 in	0°F	1:00	50	Drain, Mot-F, Mot-R
		22	Sour	10 in	90°F	5:00	32	Cold, Mot-F, Mot-R, S1-20oz, S3-20oz
	F	or He	lp, press F1					NUM Curren //

Using WashComm's Machine List View

Machine List

When you first start WashComm, it will display a list of the machines set up in the file. If this is the first time you've launched WashComm, there will be a single washer listed, called "New Washer."

Changing the Name of a Machine

To change the name of a machine, first highlight it in the machine list. Then go to the "Installation" menu and choose "Edit Machine Information...". This will bring up a dialog box that will allow you to modify the machine's name (as it will appear in the washer list). From the Edit Machine Information dialog you can also tell WashComm what I/O Unit is connected to the control, enter a longer machine description (machine serial number, control type, etc.), enable Formula Sharing,

enter the control software version, and set up Quick Temperatures and Quick Levels. Formula Sharing, Quick Temperatures, and Quick Levels are explained in separate sections.

Adding a Machine to the Machine List

To add a machine to the list, go to the "Installation" menu and select "Add Machine...". WashComm will ask you what type of control you want to add, and whether you want this machine to share formulas with another machine.

Removing a Machine from the List

To remove a machine from the machine list, highlight the machine you want to remove. Then go to the "Installation" menu and choose "Remove Machine."

Copying Machine Setup Information

If you have two machines with identical setup (the same I/O Assignments and Option settings), you can copy that information from one machine in the machine list to another. Under the "Installation" menu, select "Copy Machine Setup Information...", and select the source and destination machines. Then click "OK".

Formula Sharing

If you have a number of machines with identical formulas, you can use Formula Sharing to automatically update the formulas in all of those machines when you change one. When you set up Formula Sharing, you must designate one machine as a "formula master." Any changes made to the formula master's formulas will be reflected in the slave machines' formulas.

To set up Formula Sharing, highlight the machine you want to be the "slave" machine and choose "Edit Machine Information..." from the "Installation" menu. In the "Formula Sharing" section of the Edit Machine Information dialog box, select the machine you want to act as formula master from the dropdown box.

For example, if you want washer 2 to get its formulas from washer 1, make washer 1 the formula master for washer two by selecting washer 1 in the Formula Master dropdown box for washer 2.

WashComm - [EXAMPLE.wcd] 🛿 Eile Edit Installation Machine Formula AutoProgram Communicate Yiew Window Help _ 8 × 🗅 🚅 🔚 🎒 ※ 🖻 🖻 🛑 물 🗧 🔶 ⇒ m | ⊤ **N?** ? Machine 1-Washer1 View Machines • Ŧ Number Name Туре DC-5500 (Dryer Control) Dryer 1 DC-5500 (Dryer Control Dryer 2 DC-5500 (Dryer Control Dryer 3 View menu, DC-5500 (Dryer Control Dryer 4 DC-5500 (Dryer Control machine list Drver 5 Washer 1 PC-5500 (Washer Control) view selected Washer 2 PC-5500 (Washer Control PC-5500 (Washer Control Washer 3 Washer 4 PC-5500 (Washer Control Washer 5 PC-5500 (Washer Control PC-5500 (Washer Control) Washer 6 Highlighted Machine For Help, press F1 NUM

Machine List View



Edit Machine Information Screen

Copy Control Setup Information	×
Control to copy setup from	
1 - Washer 1	•
Controls to copy setup to	
2 - Washer 2 3 - Washer 3 4 - Washer 4 5 - Washer 5 6 - Washer 6	
Cancel OK	

Copy Machine Setup Screen

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Quick Temperatures and Levels (Washer Controls Only)

Quick Temperatures and Levels allow you to preset temperatures and levels in the formula editor. Usually, these will be set to the low, medium, and high settings recommended by the washer's manufacturer.

To add a quick temperature or level, highlight the washer you want to add the temperature or level to and select "Edit Machine Information..." from the "Installation" menu. In the Edit Machine Information dialog box, click the button marked "Add Temp." or "Add Level." WashComm will ask you what temperature or level you want to add.

Entering Information About your Plant

WashComm puts your plant name on all formula and setup printouts. To enter your plant name and address, select "Edit Installation Information" from the "Installation" menu.

Using WashComm's Formula List View

Formula List

The formula list displays the names of the formulas stored for each control. You can get to the formula list by double-clicking on a machine in the machine list view, or by choosing "Formulas" from the view selector.

Adding a Formula

To add a formula, highlight the formula in the formula list that you want the new formula you're inserting to come before. Choose "Insert" from the "Edit" menu, type [CONTROL]-I on the keyboard, or click the "insert step or formula" is button on the toolbar.

NOTE: If you insert a formula into the formula list, it will move the higher-numbered formulas down and destroy the last formula in the list.

Removing a Formula

To remove a formula, highlight the formula

that you want to delete, and choose "Delete" from the "Edit" menu, type [CONTROL]-D on the keyboard, or click the "delete step or formula" is button on the toolbar. WashComm will allow you to delete a formula and move the other formulas on the list up or to insert a blank formula in place of the one you want to delete.

Changing a Formula Name

To change the name of a formula, select the formula in the formula list view and choose "Change formula name..." from the "Formula" menu.

Returning to the Washer List View

You can return to the machine list view from the formula list view by choosing "Machines" from the view selector, or by clicking the "back" - button on the toolbar.

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2	Shirts	0:12:00	Formula list
3	Mats	0:20/30	view selected
4	WhiteT/L	0:52:35	view selected
5	White Naps	0:57:30	
6	White Aprons	1:06:30	Formulas are being displayed
7	Bar Mops	1:15:30	r ormands dre being dispidyed
8	Col.Apr /T / L	0:39:00	for this machine
9	Shop Towels	0:46:30	,
10	Ink Towels	0:57:30	
11	Terry / W.Cloth	0:55:30	
12	Sheets / Cases	0:42:00	
13	Diaper Pads	1:05:30	
14	Wet Mops	0:47:30	
15	Dye Mats /Towel	0:44:30	
16	WhtGar/Blood	1:04:30	
17	Rinse out	0:06:00	
18	White Crt	0:50:00	
19	White Exec	0:52:30	
20	Cotton Garm	1:10:30	
21	Starch	0:12:00	
22	Lt. Soil Color	0:38:00	

Using WashComm's Step List View

Selecting a Formula

You can select a different formula any time you're in the step list view using the formula selector.

Editing a step

To edit a step, highlight the step you wish to edit and double-click it or press [RETURN].

Scaling/Replacing Temperatures and Levels

WashComm allows you to perform a searchand-replace on the water temperatures programmed in the steps of a formula. It also allows you to scale water levels (to work with a different size machine) or search-andreplace water levels.

To scale or replace a water level or temperature, select "Replace Temp and Level..." from the "Formula" menu. This will bring up the "Replace Temperatures and Levels" dialog box.

Adding an End Step to a Formula

You can add an end step to a formula one of three ways: type [CONTROL]-E on the keyboard, use the End Step is button on the toolbar, or select "End Step" from the "Formula" menu.

AutoPrograms

AutoPrograms let you store a frequently-used sequence of steps and quickly insert them into a formula. WashComm allows you to set up as many as ten AutoPrograms.

To assign steps to an AutoProgram, control-click or shift-click on the steps you want to reuse. Then select "Assign Steps to AutoProgram" from the "AutoProgram" menu. WashComm will ask you to assign a name to the AutoProgram, and will display that name in the AutoProgram menu.

To use an AutoProgram, simply click on the toolbar button for the

AutoProgram you wish to use (1 through 1), or select the AutoProgram you want from the AutoProgram menu.

Using WashComm's Step Editor

Step Editor Note

The Step Editor in WashComm is designed to operate similarly to the program mode in PC-5000 series controls. If you are familiar with programming the PC-5000, you should have little difficulty programming formulas in WashComm.

Clearing a Step

If you want to clear a programmed step, press the "clear" button on the step editor.

Programming Outputs

To program outputs, click on the checkbox next to the output you want to turn on or off, or press the "hot-key" (the underlined letter in the caption next to each checkbox) for the output.











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Programming Temperatures and Levels

You can program temperatures and levels either by using the "quick" temperature or level dropdown boxes, or by typing the desired amount into the temperature or level boxes.

Adding a Chemical Injection

Chemical injections can be added by clicking on the "Add" button in the chemical injections section. WashComm will bring up the Edit Injection dialog box. To add an injection, click on the chemical in the chemical list, then type in the amount of the chemical that you want to inject.

Changing a Chemical Injection

To change the amount of a chemical injection, highlight the injection you wish to change in the step editor, and click the "Edit" button in the chemical injections section.

Removing a Chemical Injection

To remove a chemical injection, highlight the injection you wish to remove in the step editor, and click the "Remove" button in the chemical injections section.

Adding a Custom Step Name

If the step name you're looking for isn't in the list of pre-programmed step names, you can add a name to the list by clicking the "New Step Name" button. WashComm will ask you for the new name you'd like to add, and automatically add it to the list of step names.

Programming Step Time

To program the step time, enter the number of minutes and seconds into the minutes and seconds boxes under the step time section.

Using WashComm's I/O Assignment List View

Editing I/O Assignments

To edit an I/O Assignment, highlight the desired I/O Assignment and double-click on it or press [RETURN]. This will bring up the Edit I/O Assignment dialog box. Please consult the Reference Manual for your control for more information on I/O Assignments.



I/O Assignment Editor Screen

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3	Steam	4	3	0	0						
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5	Poly Rinse	14	19	0	0						
6	Reuse Water	3	14	0	0						
7	Reuse Drain	6	15	0	0						
8	Motor Forward	8	5	19	1						
9	Motor Reverse	9	6	20	0						
10	Balance Motor	0	0	0	0						
11	Low Extract	10	50	0	4						
12	High Extract	11	51	0	0						
13	Signal	7	20	0	1						
14	Medium Extract	0	0	0	0						
15	Indirect Cool	0	0	0	0						
16	Indirect Steam	0	0	0	0						
17	Opt. Motor Forward	0	0	0	0						
18	Opt. Motor Reverse	0	0	0	0						
19	Overflow Drain	0	0	0	0						
20	Filter Pump	0	0	0	0						
21	Auxiliary 1	0	0	0	0						
22	Auxiliary 2	0	0	0	0						
For He	lp, press F1									NUM	

I/O Assignment List View



WashComm Manual

Edit Injection Screen

Using WashComm's Multi I/O Assignment List View

Editing Multi I/O Assignments

Highlight the Multi I/O Assignment you wish to edit and double-click on it or press [RETURN]. WashComm will then bring up the Edit Multi I/O Assignment dialog box. Please consult the PC-5000 Technical Reference Manual for more information on Multi I/O Assignments.

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			Cancel
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Multi I/O Assignment Editor

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Multi I/O Assignment List View

Using WashComm's Supply I/O Assignment List View

Editing Supply I/O Assignments

To edit a Supply I/O Assignment, highlight the Supply I/O Assignment you wish to edit and double-click or press [RETURN]. WashComm will bring up the Edit Supply I/O Assignments dialog box. Please consult the PC-5000 Technical Reference Manual for more information on Supply I/O Assignments.

Edit Supply I/O Assignments												
Supply N	umber 1		Chemical	OK								
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Supply I/O Assignment Editor

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Supply I/O Assignment List View

WashComm Manual

Using WashComm's Supply Calibration List View

Editing Supply Calibration To edit Supply Calibrations, highlight the Supply Calibration you wish to edit and double-click or press [RETURN]. WashComm will bring up the Edit Supply Calibration dialog box. Please consult the PC-5000 Technical Reference Manual for more information on Supply Calibration.

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Mach	ine 1-Wash	er 1	▼ View Su	pply Calibration 💽					
#	Name	Туре	Calibration	Chem. Rule	Inj. Group	Flush Type	Flush Time	Max Time	Pump Time
1	Supply1	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
2	Supply2	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
3	Supply3	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
4	Supply4	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
5	Supply5	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
6	Supply6	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
7	Supply7	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
8	Supply8	Timed	1sec Ooz 1oz	inject before temp	inject simultaneously				
9	Supply9	Unused							
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Edit Supply Calibration Screen

Cancel

Using WashComm's Option List View

Editing Options

To edit Options, highlight the Option you wish to edit and double-click or press [RETURN]. WashComm will bring up the Edit Option dialog box. Please consult the PC-5000 Technical Reference Manual for more information on individual control Options.



Option Editor Screen

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Motor on time	0:16								- 11
Motor off time	4. seconds								- 11
RPM @ 0%	URPM								- 11
RPM @ 100%	580 RPM								- 11
Default Wash RPM	35 RPM								- 11
Default Drain RPM	31 RPM								- 11
Distribution RPM	52 RPM								
Balance RPM	52 RPM								
Transition RPM	52 RPM								
Def. Low Extract RPM	285 RPM								
Def. High Extract RPM	572 RPM								
Unload Jog RPM	10 RPM								
Steam Level	5. in								
Low Level	5. in								
Signal On Time	0.5 seconds								
Signal Off Time	0.5 seconds								
Fill Delay	5 seconds								
Water Level Offset	2. in								
Display Brightness	75%								
Fill Timeout	5:00								
Temperature Timeout	10:00								
Unbalance Refill Lev.	3. in								-
For Help, press F1							NUM		//.

Flush Time

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Option List View

Using WashComm to Program Controls With a WashComm Cable

Setting up WashComm to use a WashComm Cable Before you can use WashComm to download information to a control, you must first give WashComm some information about your serial port connections. To set up WashComm to work with a WashComm cable, select "Serial Port Setup..." from the "Communicate" menu. This will bring up the Select Serial Port screen. Select the COM port (serial port) that the WashComm Cable will be connected to.

WashComm Cable Box

The WashComm cable box has four LEDs on the cover: PWR, VER, TX, and RX. The PWR LED indicates that the WashComm Cable is receiving power from the control. The VER LED indicates that the WashComm Cable has successfully been verified. The TX LED shows serial data being transmitted from the computer, and the RX LED shows serial data being received by the computer.

Downloading to a Control

Before you can download formulas to a control, verify that your WashComm Cable settings are correct.

To download formulas to a control, connect the 9-pin DIN connector from the WashComm Cable to the back of your



Select Serial Port Screen



computer, and the circular waterproof connector to the circular connector on the machine's front panel. The WashComm Cable receives power from the control when connected, so the PWR light should light up.

Once the cable is connected, select "Using a WashComm Cable..." from the "Communicate" menu. This will bring up the Transfer Using WashComm Cable screen. Select the type of control that is on the machine in the "Type of Control" section, then click on the machine you are actually working with in the "Controls Available" section. If you're working with a PC-5000, select whether you have a 32-formula or 96-formula control. If you want to download your wash or dry formulas, select "Formulas" in the "Transfer" section. Select "Settings" to send control setup information (I/O Assignment, Chemicals, etc.). Then select "Download to control" in the "Direction" section. Click "OK".

WashComm will then tell you to go to the communications functions on the control and select "Receive Formulas" or "Receive I/O Assignments". Press [ENTER] on the control's keypad, and the control's display should say "Receiving." Then press "OK" on the dialog box. WashComm will verify the cable, and then start the download process.

Select the type of control you are working with here	Make sure you select the machine you are working with here.	
Image: Transfer Lising a WashComm Cable Type of Control PC-5500 Controls Available Number 1 2 3 Washer 1 2 3 Washer 3 4 4 5 Washer 4 5 6	Version Version 6.x (96 formulas) Transfer Formulas Number of Formulas 28 Direction © Upload to Computer © Download to Control	If you are working with a PC-5000 control, WashComm needs to know whether it is a version 5 or version 6 control. Select the type of data you want to transfer (formulas or seettings) Number of formulas you want to download (when downloading formulas) Select whether you want to download the information to the control or unload it to
<u> </u>		the computer.

Uploading from a Control to a Computer

Before you can upload formulas from a control, verify that your WashComm Cable settings are correct.

To upload formulas to a control, connect the 9-pin DIN connector from the WashComm Cable to the back of your computer, and the circular waterproof connector to the circular connector on the machine's front panel. The WashComm Cable receives power from the control when connected, so the PWR light should light up.

Once the cable is connected, select "Using a WashComm Cable..." from the "Communicate" menu. This will bring up the Transfer Using WashComm Cable screen. Select the type of control that is on the machine in the "Type of Control" section, then click on the machine you are actually working with in the "Controls Available" section. If you're working with a PC-5000, select whether you have a 32-formula or 96-formula control. If you want to download your wash or dry formulas, select "Formulas" in the "Transfer" section. Select "Settings" to send control setup information (I/O Assignment, Chemicals, etc.). Then select "Upload to computer" in the "Direction" section. Click "OK".

WashComm will then tell you to make sure that the computer is connected to the control. Click "OK" so it can verify your WashComm cable. Once the cable has been successfully verified, WashComm will tell you to click "OK" again.

If you are sending formulas, go to the Options mode in the control and select "Send Formulas" in the Communications Functions section. Press [ENTER] on the control's keypad, and the control's display should say "# of formulas to send." Enter the number of formulas you'd like to send, and press [ENTER] on the control's keypad again. The control's display should then say "Sending."

If you are sending settings, go to the Options mode in the control and select "Send I/O Assignments" in the Communications Functions section. Press [ENTER] on the control's keypad, and the control's display should say "Sending."