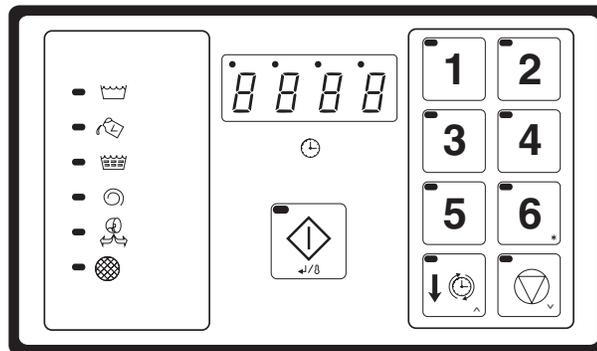


Washer-Extractors

Cabinet Hardmount

A-Series Microcomputer for OPL Models
2 Speed and Variable-Speed

Refer to Page 2 for Model Identification



CHM1766C

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)

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Model Identification

Information in this manual is applicable to these models:

HC80ANV	SC40AN2	SC60ANF	UC30AN2	UC60ANF
SC125ANV	SC40ANV	SC80ANV	UC40AN2	UC60ANV
SC20AN2	SC60ANV	UC125ANV	UC40ANV	UC80ANV
SC30AN2	SC60AN2	UC20AN2	UC60AN2	

Safety Information

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.	

	WARNING
WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.	

	CAUTION
CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

IMPORTANT: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:	
W023	

1. Read all instructions before using the washer.
2. Refer to the **GROUNDING INSTRUCTIONS** in the **INSTALLATION MANUAL** for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable; do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

Safety Information

9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

	WARNING
<p>This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.</p>	
SW004	

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

	WARNING
<p>Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.</p>	
W703	

	CAUTION
<p>Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.</p>	
SW025	

	WARNING
<p>Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.</p>	
SW014	

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

Safety Information

Operator Safety

	WARNING
NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.	
<small>SW012</small>	

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
 - c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

	WARNING
Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.	
<small>SW039</small>	

Programming

NOTE: The machines are factory-programmed with basic cycles to make the units operational without programming at the installation.

Entering Program Mode

1. Open machine lid.
2. Locate Program/Run switch on the computer board. This is accessed through a cutout in the metal control unit cover. This switch protrudes from the rear of the electronic control unit cover.
3. Flip switch to the left (as seen from the front of machine) to enter PROGRAM Mode.
4. Display will show temperature.

Cycle and Error Count

The control logs cycle count (total of all cycles completed).

1. To read, enter PROGRAM Mode.
2. Press START (Enter) keypad. Display will show the cycle count.
3. Press START (Enter) keypad. Display will show certain error conditions that may have been recorded by the control.
4. Read the information when consulting technical assistance as needed.
5. Step through the error log by pressing START keypad repeatedly until display reverts to normal PROGRAM Mode ("0000" or a temperature).

Setup Mode

NOTE: In SETUP Mode, certain machine functions can be configured. The settings in this mode are related to how the machine is equipped from the factory. Usually, these settings would not be changed.

NOTE: Enter SETUP Mode through the Program Mode.

1. Press (6) keypad. Display will show "FAR" or "CEL".

NOTE: This selects whether temperatures display in degrees Fahrenheit (F) or Celsius (C), if control is equipped with a temperature sensor. Change selection by pressing \wedge or \vee keypad.

NOTE: Changing degrees "FAR" or "CEL" only has an effect if the control has a temperature probe connected and/or heat capability.

2. Press START keypad.
3. Select "HEAT" or "noHt". Change the selection by pressing the \wedge or \vee keypad.

NOTE: If set for "HEAT", the control has heat capability enabled. The washer-extractor MUST have electric or steam heat, and a temperature probe. If display shows "noHt", or if the message "HEAT" or "noHt" does NOT display, the control does NOT have heat capability.

4. Press START keypad to continue to the next step.
5. Select "AFIL" or "SUP5". For "SUP5", a fifth or sixth supply can be programmed in a cycle step. "AFIL" allows auxiliary fills to be programmed to low, medium or high water level in a cycle step.
6. Press START keypad.
7. Select "tFIL" or "ntFL". "tFIL" allows a temperature controlled fill to be programmed for any segment. Select "ntFL" to disable the feature.



WARNING

To avoid personal injury, recommended inlet water temperature should be no higher than 125° Fahrenheit (51° Celsius).

W709

8. Press START keypad.
9. Select "COOL" or "noCL." "COOL" enables an automatic cooldown feature allowing cold water to flush into wash before a drain if temperature is 140°F (60°C) or above. Select "noCL" to disable feature.
10. Press START keypad.
11. Select "bEEP" (control sounds beeper during Add Bleach [Supply 2]) or "nobP" (control does NOT sound beeper during Add Bleach [Supply 2]). Change selection by pressing \wedge or \vee keypad.
12. Press START keypad.
13. Select "Adv" or "noAd". "Adv" enables the Rapid Advance feature. Select "noAd" to disable the feature.
14. Press START keypad.

Programming

Programming Cycle Segments

The machine has 30 wash cycles available. 26 wash cycles are pre-programmed. 4 cycles are available for custom programming. All wash cycles may be edited as follows.

1. Enter PROGRAM Mode. Refer to *Entering Program Mode* section.
2. Press “^” keypad to enter PROGRAM Mode.
3. Press the cycle number of the cycle to be edited. Refer to *Table 1*.
4. Press the START keypad to move into the menu of options. Refer to *Figure 1*.

NOTE: While cycle is running, pressing the START keypad shows the temperature. Pressing the START keypad a second time displays the cycle. Pressing the START keypad a third time returns display to time remaining.

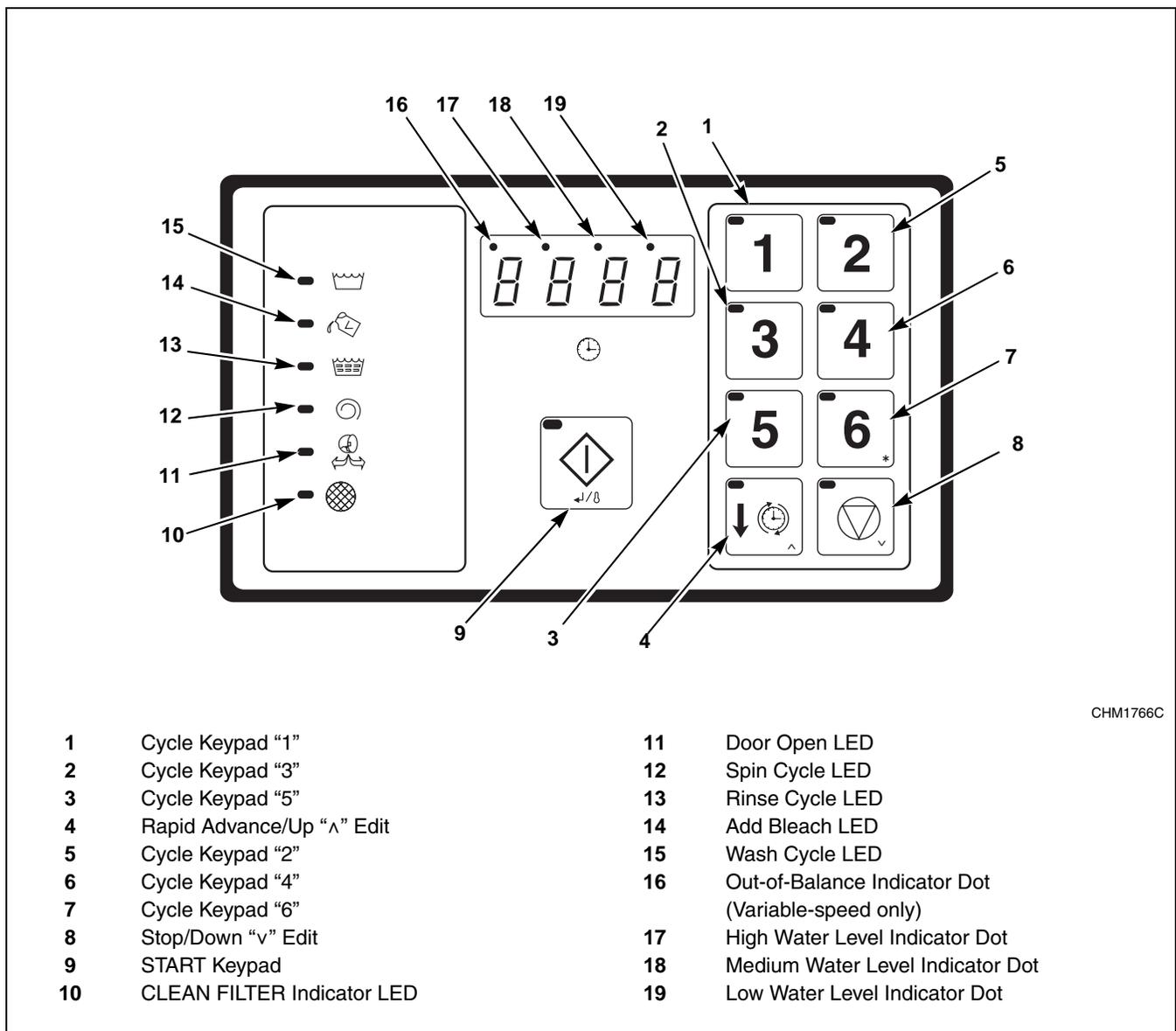


Figure 1

CHM1766C

Cycle Number	Cycle Name
1	Permanent Press Light Soil
2	Cotton Terrycloth Light Soil
3	Permanent Press Medium Soil
4	Cotton Terrycloth Medium Soil
5	Permanent Press Heavy Soil
6	Cotton Terrycloth Heavy Soil
11	Table Napery Blends Colors
12	Table Napery Blends Whites
13	VISA Table Napery Colors
14	VISA Table Napery Whites
15	Rags Heavy Soil
16	Reclaim
21	Personals with Bleach
22	Personals No Bleach
23	Delicates Spreads Cold Water
24	Delicates Spreads Warm Water
25	Custom #1
26	Custom #2
31	Normal 90°C (Pre Wash)
32	Normal 90°C
33	Normal 60°C (Pre Wash)
34	Normal 60°C
35	Normal 40°C (Pre Wash)
36	Custom #3
41	Permanent Press 90°C (Pre Wash)
42	Permanent Press 90°C
43	Permanent Press 60°C (Pre Wash)
44	Permanent Press 60°C
45	Fine 40°C
46	Custom #4

Table 1

Programming

Options for Each Segment

Cycle Steps Available (NOTE: WASH, ADD BLEACH, RINSE and SPIN LEDs light ONLY when a cycle formula is in operation.)	Display	Setting Options for Cycle Steps
Wash 1-5 (displayed as “USH1”-“USH5”)		
Time for Agitation (excludes fill, drain, spin and heat)	AG1	0 or 2-30 minutes in agitation step (increases/decreases in one-minute increments). <i>Refer to Table 4 for operation of each agitation segment</i>
	AG2	
	AG3	
	AG4	
Fill valves (temperature)	CFIL	Cold, Hot or Both (warm) water fills or Auxiliary fill
	HFIL	
	bFIL	
	AFIL	
Fill water level control	LO	Low, Medium or High water level
	nEd	
	HI	
Supply	SUP0	SUP0 for No Supply or Supply 1- 7 (<i>Refer to Table 3 for operation of each supply selection</i>)
	SUP1	
	SUP2	
	SUP3	
	SUP4	
	SUP5	
	SUP6	
	SUP7	
Heat (Models with heat or heat capability)	HEAt	00F (no heat for segment) or 75°F to 200°F 00C (no heat for segment) or 25°C to 93°C
	noHt	
Drain (Final segment drains in stop routine if No Drain is programmed)	drAI	Drain or No Drain (if No Drain programmed, will skip spin segment associated with Drain segment)
	nodr	
Spin time	SPIn	00 for No Spin or 60-240 seconds (increases/decreases in one-second increments)
	tInE	
Rinse 1-5 (displayed as “rln1”-“rln5”)		
Time for Agitation (excludes fill, drain, spin and heat)	AG1	0 or 2-30 minutes in agitation step (increases/decreases in one-minute increments). <i>Refer to Table 4 for operation of each agitation segment</i>
	AG2	
	AG3	
	AG4	
Fill valves (temperature)	CFIL	Cold, Hot or Both (warm) water fills or Auxiliary fill
	HFIL	
	bFIL	
	AFIL	
Fill water level control	LO	Low, Medium or High water level
	nEd	
	HI	

Table 2 (continued)

Table 2 (continued)

Supply	SUP0	SUP0 for No Supply or Supply 1- 7 (<i>Refer to Table 3 for operation of each supply selection</i>)
	SUP1	
	SUP2	
	SUP3	
	SUP4	
	SUP5	
	SUP6	
	SUP7	
Heat (Models with heat or heat capability)	HEAt	00F (no heat for segment) or 75°F to 200°F
	noHt	00C (no heat for segment) or 25°C to 93°C
Drain (Final segment drains in stop routine if No Drain is programmed)	drAI	Drain or No Drain (if No Drain programmed, will skip spin segment associated with Drain segment)
	nodr	
Spin time	SPIn	00 for No Spin or 60-240 seconds (increases/decreases in one-second increments)
Rinse 6 (displayed as “rln6”)		
Time for Agitation (excludes fill, drain, spin and heat)	AG1	0 or 2-30 minutes in agitation step (increases/decreases in one-minute increments). <i>Refer to Table 4 for operation of each agitation segment</i>
	AG2	
	AG3	
	AG4	
Fill valves (temperature)	CFIL	Cold, Hot or Both (warm) water fills or Auxiliary fill
	HFIL	
	bFIL	
	AFIL	
Fill water level control	LO	Low, Medium or High water level
	nEd	
	HI	
Supply	SUP0	SUP0 for No Supply or Supply 1- 7 (<i>Refer to Table 3 for operation of each supply selection</i>)
	SUP1	
	SUP2	
	SUP3	
	SUP4	
	SUP5	
	SUP6	
	SUP7	
Heat (Models with heat or heat capability)	HEAt	00F (no heat for segment) or 75°F to 200°F
	noHt	00C (no heat for segment) or 25°C to 93°C
Drain (Final segment drains in stop routine if No Drain is programmed)	drAI	
	nodr	
Spin Speed (displayed as SPn1-SPn3)		
Spin time	SPIn	1-10 minutes (increases/decreases in one-minute increments)

Table 2

Programming

NOTE: If the wash load becomes out of balance, the machine will attempt to balance the load. After three failed attempts the display will light the leftmost digit and a lower spin will be used to complete the cycle. Refer to *Figure 2*.

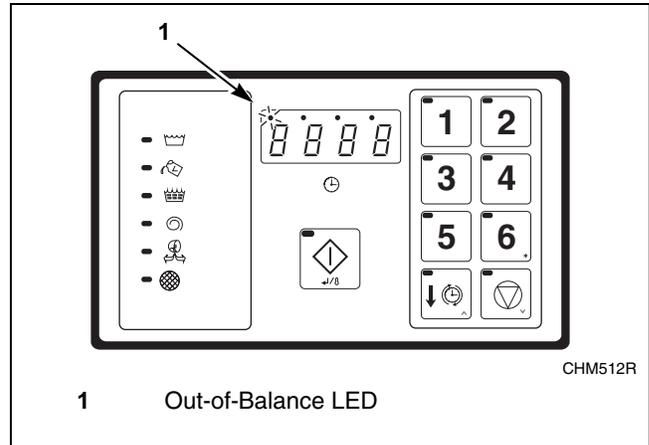


Figure 2

Supply Programmed	External Chemical Supply Signal	Compartment Flushed
SUP0	None	None
SUP1	Supply 1	Compartment 1*
SUP2	Supply 2**	Compartment 2
SUP3	Supply 3	Compartment 3
SUP4	Supply 4	No compartment Flush*
SUP5	Supply 5***	No compartment Flush*
SUP6	Supply 6***	No compartment Flush*
SUP7	Supply 7	Compartment 3

Table 3

***NOTE:** Only supply 2 (SUP2) and supply 3 (SUP3) have independent water valves to flush their respective compartment. Compartment 1 will flush whenever machine is filling with water.

External chemical supply signals and any related flush valves will activate approximately 15 seconds after machine begins to fill with water. If programmed water level is reached prior to 15 seconds, no chemical supply signal will be activated.

****NOTE:** ADD BLEACH LED lights if Supply 2 is the only supply programmed. If set up for "bEEP" (refer to SETUP Mode section), buzzer will sound on and off for the first eight seconds. The Supply 2 and ADD BLEACH LED remain on for 45 seconds or until the fill is complete, whichever comes first.

*****NOTE:** Selecting "AFIL" (auxiliary fill) in SETUP Mode will remove supply 5 and supply 6 as optional supply signals.

To Edit an Entire Wash Cycle Formula

1. Enter PROGRAM Mode. Refer to *Entering Program Mode* section.
2. Press the \wedge keypad until display shows “CY01”.
3. Select the cycle by pressing the desired cycle number.
4. Press START keypad to edit the cycle.

Agitation for the Cycle

5. With display showing “CYXX” (xx = cycle number), press the START keypad. Display shows “AG1”, “AG2”, “AG3” or “AG4”. Refer to *Table 4* for a description on Agitation.

Display	Meaning
AG1	18 seconds forward, 3 seconds pause, 18 seconds reverse, 3 seconds pause and repeat for the programmed time
AG2	3 seconds forward, 27 seconds pause, 3 seconds reverse, 27 seconds pause and repeat for the programmed time
AG3	10 seconds forward, 20 seconds pause, 10 seconds reverse, 20 seconds pause and repeat for the programmed time
AG4	4 seconds forward, 56 seconds pause, 4 seconds reverse, 56 seconds pause and repeat for the programmed time

Table 4

Wash 1 – Wash 5

NOTE: Programming a time other than “00” for Wash 1 will make the WASH indicator LED light while this step is running, but NOT in PROGRAM Mode.

6. The main display shows “USH1” indicating you are in the Wash segment (number will reflect selected Wash segment 1-5).
7. Press START keypad. Display shows agitation time during the step: “00” (skips segment) or 2-30 minutes. This is the time after the fill and before the drain and does not include spin time or time to first reach a programmed temperature (if your machine is configured for heat).
8. Press the \wedge or \vee keypad to alter the selection, or the START keypad to continue.
9. Display shows “CFIL”, “HFIL”, “bFIL” (for cold, hot, or warm [both]) or “AFIL”.

10. Press the \wedge or \vee keypad to alter the selection, or the START keypad to continue.

NOTE: Auxiliary Fill (“AFIL”) possible only if configured for “AFIL” in SETUP Mode. If configured, auxiliary fills can be programmed to low, medium or high water level in a cycle step.

11. Display shows “LO”, “nEd”, or “HI” for low, medium, or high water level, respectively.
12. Press the \wedge or \vee keypad to alter the selection, or the START keypad to continue.
13. Display shows “SUP0”, “SUP1”, “SUP2”, “SUP3”, “SUP4”, “SUP5”, “SUP6” or “SUP7”. Refer to *Table 3* for operation of each supply selection.
14. Press the \wedge or \vee keypad to alter the selection, or the START keypad to continue.

NOTE: “SUP5” and “SUP6” appear ONLY if control is configured for “SUP5” in SETUP Mode. If the alternate function is selected (“AFIL”), the output will function as an additional fill valve signal with a programmable water level. In this case, the extra supply function would NOT be available.

NOTE: If programmed for “SUP2”, the ADD BLEACH indicator LED light turns on and the buzzer sounds while supply 2 is on.

15. Display shows “bEEP” or “nobP”.
16. Press the \wedge or \vee keypad to alter the selection or START keypad to continue.

The leftmost supply compartment (as seen from front of machine), which can be used for detergent, flushes during fill cycles whether Supply 1 option is enabled or disabled. When Supply 1 option is enabled, Supply 1 (S1) output energizes and is available for external chemical supply if desired. The Supply 2 option controls the middle compartment, which can be used for bleach. Supply 3 and Supply 7 options control the rightmost compartment, which can be used for fabric softener. Supply 4, Supply 5 and Supply 6 options control external chemical supplies, as desired. Refer to *Table 3* for operation of each supply selection.

NOTE: For additional assistance, refer to installation instructions.

Programming

Temperature Controlled Fill

17. Display shows temperature in degrees F or C. Display will show degrees F if configured for “FAr” in SETUP Mode, or degrees C if configured for “CEL” in SETUP Mode. Range is 75°F to 200°F, or 00F (no heat for segment), or 25°C to 93°C, or 00C (no heat for segment).
18. Press the \wedge keypad to increase, or \vee keypad to decrease temperature in one-degree increments.

The control will energize heat and pause cycle timing for up to 40 minutes until the programmed temperature is first reached.

NOTE: If temperature not reached after 40 minutes, control resumes cycle.

After cycle resumes, control will attempt to maintain programmed temperature if it senses water in the machine.

19. If display shows “drAI”/“nodr” during segment programming, a drain step option can be selected. Select “drAI” for a drain step followed by an optional spin. Select “nodr” for no drain step.

NOTE: The machine will proceed directly to the next segment if “nodr”.

20. Change the selection by pressing the \wedge or \vee keypad.
21. Press START to continue.
22. If “drAI” is selected (or if your model does not provide the option of selecting “drAI”/“nodr”), the display will show “SPIn” one second, “tInE” one second, and then the time for spin: “00” (no spin) or 60-240 seconds.
23. Change the selection by pressing the \wedge or \vee keypad.
24. Press START to continue.

Rinse 1 – Rinse 6

NOTE: Programming a time other than “00” for this step will make the RINSE indicator LED light while this step is running, but not in PROGRAM Mode.

25. The main display shows “rIN1” indicating you are in the Rinse segment (number will represent Rinse cycle selected 1-6).
26. Press START keypad. Display shows the time for agitation during the step: “00” (skips segment) or 2-30 minutes.

NOTE: This is the time after the fill and before the drain and does not include spin time.

27. Press the \wedge or \vee keypad to alter the selection.
28. Press the START keypad to continue.
29. Display shows “CFIL”, “HFIL”, “bFIL” (for cold, hot, warm [both]) or “AFIL”.
30. Press the \wedge or \vee keypad to alter the selection.
31. Press the START keypad to continue.

NOTE: Auxiliary Fill (“AFIL”) possible only if configured for “AFIL” in SETUP Mode. If configured, auxiliary fills can be programmed to low, medium, or high water level in cycle step.

32. Display shows “LO”, “nEd”, or “HI” for low, medium, or high water level, respectively.
33. Press the \wedge or \vee keypad to alter the selection.
34. Press the START keypad to continue.
35. Display shows “SUP0”, “SUP1”, “SUP2”, “SUP3”, “SUP4”, “SUP5”, “SUP6” or “SUP7”. Refer to *Table 3* for operation of each supply selection.
36. Press the \wedge or \vee keypad to alter the selection.
37. Press the START keypad to continue.

NOTE: “SUP5” and “SUP6” appear ONLY if control is configured for “SUP5” in SETUP Mode. If the alternate function is selected (“AFIL”), the output will function as an additional fill valve signal with a programmable water level. In this case, the extra supply function would NOT be available.

NOTE: If programmed for “SUP2”, the ADD BLEACH indicator LED light turns on and the buzzer sounds, if programmed, while supply 2 is on.

The leftmost supply compartment (as seen from front of machine), which can be used for detergent, flushes during fill cycles whether Supply 1 option is enabled or disabled. When Supply 1 option is enabled, Supply 1 (S1) output energizes and is available for external chemical supply if desired. The Supply 2 option controls the middle compartment, which can be used for bleach. Supply 3 and Supply 7 options control the rightmost compartment, which can be used for fabric softener. Supply 4, Supply 5, and Supply 6 options control external chemical supplies, as desired. Refer to *Table 3* for operation of each supply selection.

NOTE: For additional assistance, refer to installation instructions.

Temperature Controlled Fill

38. Display shows temperature in degrees F or C. Display will show degrees F if configured for “FAr” in SETUP Mode, or degrees C if configured for “CEL” in SETUP Mode. Range is 75°F to 200°F, or 00F (no heat for segment), or 25°C to 93°C, or 00C (no heat for segment).
39. Press the \wedge keypad to increase, or \vee keypad to decrease temperature. Temperature changes in one-degree increments.

The control will energize heat and pause cycle timing for up to 40 minutes until the programmed temperature is first reached.

NOTE: If temperature is not reached after 40 minutes, control resumes cycle.

After cycle resumes, control will attempt to maintain programmed temperature if it senses water in the machine.

40. If display shows “drAI”/“nodr” during segment programming, a drain step option can be selected.
41. Select “drAI” for a drain step followed by an optional spin. Select “nodr” for no drain step.

NOTE: The machine will proceed directly to the next segment if “nodr”.

42. Change the selection by pressing the \wedge or \vee keypad.
43. Press START to continue.
44. If “drAI” is selected (or if your model does not provide the option of selecting “drAI”/“nodr”), the display will show “SPIn” one second, “tInE” one second, and then the time for spin: “00” (no spin) for 60-240 seconds IF you are in Rinse 1 – 5.

45. If you are in Rinse 6, the time for spin will show 0 or 1-10 minutes.
46. Change the selection by pressing the \wedge or \vee keypad.
47. Press START to continue.

IMPORTANT: The spin time in Rinse 6 is programmed in minutes (0-10 minutes, in one-minute increments). (Rinse 6 segment should be used as the final rinse, even where there may be fewer than four rinses. Program zero time for preceding rinses you wish to exclude.)

48. Display shows temperature.
49. Exit PROGRAM Mode by moving the Program/Run switch back to the right as seen from the front of the machine.

NOTE: The SPIN indicator LED will automatically light during the wash cycle when the last spin programmed in a cycle is operating (regardless of which segment).

Programming

Abnormal Conditions

Door Open During Operation

If the control senses either a momentary or sustained open door while the machine is operating in a wash cycle, the control immediately attempts to halt rotation of the cylinder, and all outputs not required to effect rapid halting of the cylinder rotation de-energize immediately. The message “dOOr” then displays as long as the condition persists. Regardless of the duration of the open door condition, once it is recognized by the control, the control aborts the cycle and goes to the stop routine if the door is closed (otherwise all outputs turn off and display shows “dOOr”).

Excessive Fill Time

As indicated elsewhere in this definition, fill times exceeding 10 minutes cause the cycle to abort and the display flashes “StOP”/“FILL” or “ErFL” and sounds the buzzer for ten seconds prior to entering the stop routine (display shows “01” minutes remaining while in the stop routine).

Out of Balance

If the wash load becomes out of balance, the machine will attempt to balance the load. After three failed attempts, the display will light the leftmost digit and a lower spin will be used to complete the cycle.

	WARNING
Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.	
<small>W728</small>	

Door Will Not Open

At the end of a cycle or at power up, before the control will allow the door to unlock, control checks for low, medium or high water level. Control allows the door to unlock only when machine is empty. If any water level is indicated, display shows “FULL” while keeping all outputs off. This condition could indicate a slow drain system or a mechanical blockage of the drain. Contact a qualified service technician about display on control.

Excessive Drain Time

If cycle aborts, with display flashing “ErDn” with buzzer sounding, the machine did not empty after 4 minutes 15 seconds in a drain step.

Temperature Probe Sensor Problem

If display shows “tSFL”, the machine has a temperature sensor failure. This could mean the sensor is not connected or the sensor has failed.

Clean Filter LED On

Variable-Speed Models Only

If the bottom indicator LED on front panel decal lights, the temperature sensor in the inverter drive compartment is indicating the temperature is undesirably high. Check and clean the drive compartment filter if necessary. Once corrected, the light turns off AFTER one cycle runs at a normal temperature.

	WARNING
To reduce risk of electric shock, severe injury or death, allow machine power to remain off for three minutes minimum prior to working in and around AC drive. Proceed with caution.	
<small>W662</small>	

Test Cycle

The test cycle provides a convenient means of troubleshooting and testing all machine functions quickly.

1. Enter PROGRAM Mode.
2. Press the v keypad. Display shows “tESt”.
3. Return the Program/Run switch to the right.
4. Press START keypad. The door locks and the TEST Mode starts.
5. Display shows “SPC?”. This is a factory test procedure. Ignore it and the machine will advance into the test cycle after about five seconds or go to “bAl?” if variable-speed.

NOTE: For variable-speed models ONLY, display shows “bAl?”. This is also a special factory test procedure. Ignore it and the machine will begin the test cycle after a few seconds.

Control Test	
Warm fill to low water level	Display flashes “bFIL”/“LO” (WASH LED on) with agitation, LOW water level dot on when level reached, then to next step.
	<i>Outputs: Motor ON, Drain closed, hot fill on, cold fill on</i>
Cold fill to medium water level	Display flashes “CFIL”/“nEd” (WASH LED on) with agitation, MEDIUM water level dot on when level reached, then to next step.
	<i>Outputs: Motor ON, Drain closed, cold fill on</i>
Hot fill to high water level	Display flashes “HFIL”/“HI” (WASH LED on) with agitation, HIGH water level dot on when level reached, then to next step.
	<i>Outputs: Motor ON, Drain closed, hot fill on</i>
Heat and Supply 1 on	Display flashes “HEAT”/“SUP1” (WASH LED on) with agitation, Supply 1 is on for 5 seconds, then to next step.
	<i>Outputs: Motor ON, Drain closed, Supply 1 on, Heat on</i>
Heat and Supply 2 on	Display flashes “HEAT”/“SUP2” (BLEACH LED on) with agitation, Supply 2 is on for 5 seconds, then to next step.
	<i>Outputs: Motor ON, Drain closed, Supply 2 on, Heat on</i>
Heat and Supply 3 on	Display flashes “HEAT”/“SUP3” (RINSE LED on) with agitation, Supply 3 is on for 5 seconds, then to next step.
	<i>Outputs: Motor ON, Drain closed, Supply 3 on, Heat on</i>
Supply 4 on	Display shows “SUP4” (RINSE LED on) with agitation, Supply 4 is on for 5 seconds, then to next step.
	<i>Outputs: Motor ON, Drain closed, Supply 4 on</i>
Supply 5 or Auxilliary fill on	Display shows “SUP5” or “AFIL” (RINSE LED on) with agitation, Supply 5 is on for 5 seconds, then to next step.
	<i>Outputs: Motor ON, Drain closed, Supply 5/Auxilliary fill on</i>
Motor rotates slow wash reverse	Display flashes “SLo”/“rEv” for 60 seconds, then to next step.
	<i>Outputs: Motor ON (slow reverse)</i>
Motor rotates slow wash forward	Display flashes “SLo”/“For” for 60 seconds, then to next step.
	<i>Outputs: Motor ON (slow forward)</i>
Motor rotates normal wash reverse	Display flashes “norm”/“rEv” for 60 seconds, then to next step.
	<i>Outputs: Motor ON (normal reverse)</i>
Motor rotates normal wash forward	Display flashes “norm”/“For” for 60 seconds, then to next step.
	<i>Outputs: Motor ON (normal forward)</i>
Drain and Distribution	Display flashes “drai”/“For” until machine drains, then to next step.
	<i>Outputs: Motor ON (distribution), Drain opens in 15-27 seconds</i>
Spin 1	Display shows “SPn1” (SPIN LED on) for 60 seconds, then to next step.
	<i>Outputs: Motor ON (Low Spin)</i>
Spin 2	Display shows “SPn2” (SPIN LED on) for 60 seconds, then to next step.
	<i>Outputs: Motor ON (Medium Spin)</i>
Spin 3	Display shows “SPn3” (SPIN LED on) for 60 seconds, then to next step.
	<i>Outputs: Motor ON (High Spin)</i>

Table 5 (Continued)

Programming

Table 5 (Continued)

Control Test	
Spin coast delay	Displays “SdLY”, then to normal stop routine.
	<i>Outputs: All off</i>
Stop routine	Display shows “StoP”, agitates briefly, shows “donE”, and allows door to unlock.

Table 5

NOTE: ON appears ONLY where motor control outputs are on (otherwise they are off). Outputs referenced are on control unit fuse board. Outputs are as labeled on the fuse board.

Motor Speed Chart								
	Variable-Speed Motor Control Outputs					Fixed-Speed and 2 Speed Motor Outputs		
	STF	STR	RH	RM	RL	Fwd	Rev	Spin
Motor off (no rotation)								
Wash speed forward	ON			ON		ON		
Wash speed reverse		ON		ON			ON	
Distribution (variable-speed ONLY)	ON		ON			NA	NA	NA
Lowest spin (low spin speed “SPn1” for variable-speed)	ON			ON	ON			ON
Medium spin (“SPn2” – variable-speed ONLY)	ON		ON	ON		NA	NA	NA
Highest spin (“SPn3” – variable-speed ONLY)	ON		ON		ON	NA	NA	NA

NA – Not Applicable

NOTE: For variable-speed machines smaller than C80, SPn1 and SPn2 are not the same speed.

Domestic Cycle Charts Custom

Cycles 1 - 24

Cycle Steps	Permanent Press Light Soil	Cotton Terrycloth Light Soil	Permanent Press Medium Soil	Cotton Terrycloth Medium Soil	Permanent Press Heavy Soil	Cotton Terrycloth Heavy Soil	Table Napery Blends Colors	Table Napery Blends Whites	VISA Table Napery Colors	VISA Table Napery Whites	Rags Heavy Soil	Reclaim	Personals with Bleach	Personals No Bleach	Delicates Spreads Cold Water	Delicates Spreads Warm (Both) Water
Cycle reference (display in Program Mode)	CY01	CY02	CY03	CY04	CY05	CY06	CY11	CY12	CY13	CY14	CY15	CY16	CY21	CY22	CY23	CY24
Agitation	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1
Wash 1 (WASH Indicator On)																
Time for agitation (minutes)	7	7	2	2	2	2	2	2	2	2	2	2	7	7	5	5
Fill Valves (temperature)	Hot	Hot	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Hot	Warm (Both)	Cold	Warm (Both)
Fill water level	Low	Low	High	High	High	High	High	High	High	High	High	High	Low	Low	High	High
Supply	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spin (only if preceded by 'drain') seconds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wash 2 (WASH Indicator On)																
Time for agitation (minutes)			6	6	7	7	9	9	12	12	10	12	7	7	2	2
Fill Valves (temperature)			Hot	Hot	Hot	Hot	Hot	Hot	Hot	Hot	Hot	Hot	Hot	Warm (Both)	Cold	Warm (Both)
Fill water level			Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	High	High	High
Supply			1	1	1	1	1	1	1	1	1	1 & 2	2	0	0	0
Heat (if enabled)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drain			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spin (only if preceded by 'drain') seconds			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wash 3 (WASH Indicator On)																
Time for agitation (minutes)			7	7	7	7	2	7	2	2	6	12				
Fill Valves (temperature)			Hot	Hot	Hot	Hot	Warm (Both)	Hot	Warm (Both)	Warm (Both)	Hot	Hot				
Fill water level			Low	Low	Low	Low	High	Low	High	High	High	Low				
Supply			2	2	2	2	0	2	0	0	2	1 & 2				
Heat (if enabled)			0	0	0	0	0	0	0	0	0	0				
Drain			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin (only if preceded by 'drain') seconds			0	0	0	0	0	0	0	0	0	0				
Wash 4 (WASH Indicator On)																
Time for agitation (minutes)																
Fill Valves (temperature)																
Fill water level																
Supply																
Heat (if enabled)																
Drain																
Spin (only if preceded by 'drain') seconds																
Wash 5 (WASH Indicator On)																
Time for agitation (minutes)																
Fill Valves (temperature)																
Fill water level																
Supply																
Heat (if enabled)																
Drain																
Spin (only if preceded by 'drain') seconds																

Table 6 (continued)

Cycle Steps	Permanent Light Soil	Cotton Terrycloth Light Soil	Permanent Press Medium Soil	Cotton Terrycloth Medium Soil	Permanent Press Heavy Soil	Cotton Terrycloth Heavy Soil	Table Napery Blends Colors	Table Napery Blends Whites	VISA Table Napery Colors	VISA Table Napery Whites	Rags Heavy Soil	Reclaim	Personals with Bleach	Personals No Bleach	Delicates Spreads Cold Water	Delicates Spreads Warm (Both) Water
Cycle reference (display in Program Mode)	CY01	CY02	CY03	CY04	CY05	CY06	CY11	CY12	CY13	CY14	CY15	CY16	CY21	CY22	CY23	CY24
Agitation	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1
Rinse 1 (Rinse Indicator On)																
Time for agitation (minutes)	2	2	2	2	2	2	2	2	2	2	2	4	2	2	2	2
Fill Valves (temperature)	Warm (Both)	Warm (Both)	Hot	Hot	Hot	Hot	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Hot	Warm (Both)	Warm (Both)	Warm (Both)	Cold	Warm (Both)
Fill water level	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High	High
Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spin (only if preceded by 'drain') seconds	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60	60
Rinse 2 (Rinse Indicator On)																
Time for agitation (minutes)	2	2	2	2	2	2	2	2			2	2	2			
Fill Valves (temperature)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)			Warm (Both)	Warm (Both)	Warm (Both)			
Fill water level	High	High	High	High	High	High	High	High			High	High	High			
Supply	0	0	0	0	0	0	0	0			0	0	0			
Heat (if enabled)	0	0	0	0	0	0	0	0			0	0	0			
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes			
Spin (only if preceded by 'drain') seconds	60	60	60	60	60	60	60	60			0	60	0			
Rinse 3 (Rinse Indicator On)																
Time for agitation (minutes)																
Fill Valves (temperature)																
Fill water level																
Supply																
Heat (if enabled)																
Drain																
Spin (only if preceded by 'drain') seconds																
Rinse 4 (Rinse Indicator On)																
Time for agitation (minutes)																
Fill Valves (temperature)																
Fill water level																
Supply																
Heat (if enabled)																
Drain																
Spin (only if preceded by 'drain') seconds																
Rinse 5 (Rinse Indicator On)																
Time for agitation (minutes)																
Fill Valves (temperature)																
Fill water level																
Supply																
Heat (if enabled)																
Drain																
Spin (only if preceded by 'drain') seconds																
Final Spin (Rinse Indicator On)																
Time for agitation (minutes)	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4
Fill Valves (temperature)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Warm (Both)	Cold
Fill water level	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	High
Supply	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spin Speed	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN1	SPN1	SPN3	SPN3	SPN1	SPN1	SPN1	SPN1
Spin (only if preceded by 'drain') minutes	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3

Table 6 (continued)

International Cycle Charts Custom

Cycles 31 - 46

Cycle Steps	Normal 90°C (Pre Wash)	Normal 90°C	Normal 60°C (Pre Wash)	Normal 60°C	Normal 40°C (Pre Wash)	Permanent Press 90°C (Pre Wash)	Permanent Press 90°C	Permanent Press 60°C (Pre Wash)	Permanent Press 60°C	Fine 40°C	Custom #1	Custom #2	Custom #3	Custom #4
Cycle reference (display in Program Mode)	CY31	CY32	CY33	CY34	CY35	CY41	CY42	CY43	CY44	CY45	CY25	CY26	CY36	CY46
Agitation	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG2				
Wash 1 (WASH Indicator On)														
Time for agitation (minutes)	8	10	8	10	6	8	10	8	10	6				
Fill Valves (temperature)	Cold	Hot	Cold	Hot	Cold	Cold	Hot	Cold	Hot	Cold				
Fill water level	High	Low	High	Low	High	High	Low	High	Low	High				
Supply	1	1 & 2	1	1 & 2	1	1	1 & 2	1	1 & 2	1				
Heat (if enabled)	40°	90°	40°	60°	40°	40°	90°	40°	60°	40°				
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin (only if preceded by 'drain') seconds	0	0	0	0	0	0	0	0	0	0				
Wash 2 (WASH Indicator On)														
Time for agitation (minutes)	10	2	10	2	8	10	2	10	2	8				
Fill Valves (temperature)	Hot	Cold	Hot	Cold	Warm (Both)	Hot	Cold	Hot	Cold	Warm (Both)				
Fill water level	Low	Medium	Low	Medium	Low	Low	Medium	Low	Medium	Low				
Supply	2	0	2	0	2	2	0	2	0	2				
Heat (if enabled)	90°	0	60°	0	40°	90°	0	60°	0	40°				
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin (only if preceded by 'drain') seconds	0	60	0	60	0	0	60	0	60	0				
Wash 3 (WASH Indicator On)														
Time for agitation (minutes)	2		2		2	2		2		2				
Fill Valves (temperature)	Cold		Cold		Cold	Cold		Cold		Cold				
Fill water level	Medium		Medium		Medium	Medium		Medium		Medium				
Supply	0		0		0	0		0		0				
Heat (if enabled)	0		0		0	0		0		0				
Drain	Yes		Yes		Yes	Yes		Yes		Yes				
Spin (only if preceded by 'drain') seconds	60		60		60	60		60		60				
Wash 4 (WASH Indicator On)														
Time for agitation (minutes)														
Fill Valves (temperature)														
Fill water level														
Supply														
Heat (if enabled)														
Drain														
Spin (only if preceded by 'drain') seconds														
Wash 5 (WASH Indicator On)														
Time for agitation (minutes)														
Fill Valves (temperature)														
Fill water level														
Supply														
Heat (if enabled)														
Drain														
Spin (only if preceded by 'drain') seconds														

Table 6 (continued)

Cycle Steps	Normal 90°C (Pre Wash)	Normal 90°C	Normal 60°C (Pre Wash)	Normal 60°C	Normal 40°C (Pre Wash)	Permanent Press 90°C (Pre Wash)	Permanent Press 90°C	Permanent Press 60°C (Pre Wash)	Permanent Press 60°C	Fine 40°C	Custom #1	Custom #2	Custom #3	Custom #4
Cycle Reference (Display in Program Mode)	CY31	CY32	CY33	CY34	CY35	CY41	CY42	CY43	CY44	CY45	CY25	CY26	CY36	CY46
Agitation	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG1	AG2				
Rinse 1 (Rinse Indicator On)														
Time for agitation (minutes)	2	2	2	2	2	2	2	2	2	2				
Fill Valves (temperature)	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold				
Fill water level	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium				
Supply	0	0	0	0	0	0	0	0	0	0				
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0				
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin (only if preceded by 'drain') seconds	60	60	60	60	60	60	60	60	60	60				
Rinse 2 (Rinse Indicator On)														
Time for agitation (minutes)	2	2	2	2	2	2	2	2	2	2				
Fill Valves (temperature)	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold				
Fill water level	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium				
Supply	0	0	0	0	0	0	0	0	0	0				
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0				
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin (only if preceded by 'drain') seconds	60	60	60	60	60	60	60	60	60	60				
Rinse 3 (Rinse Indicator On)														
Time for agitation (minutes)														
Fill Valves (temperature)														
Fill water level														
Supply														
Heat (if enabled)														
Drain														
Spin (only if preceded by 'drain') seconds														
Rinse 4 (Rinse Indicator On)														
Time for agitation (minutes)														
Fill Valves (temperature)														
Fill water level														
Supply														
Heat (if enabled)														
Drain														
Spin (only if preceded by 'drain') seconds														
Rinse 5 (Rinse Indicator On)														
Time for agitation (minutes)														
Fill Valves (temperature)														
Fill water level														
Supply														
Heat (if enabled)														
Drain														
Spin (only if preceded by 'drain') seconds														
Final Spin (Rinse Indicator On)														
Time for agitation (minutes)	2	2	2	2	2	2	2	2	2	2				
Fill Valves (temperature)	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold	Cold				
Fill water level	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium				
Supply	3	3	3	3	3	3	3	3	3	3				
Heat (if enabled)	0	0	0	0	0	0	0	0	0	0				
Drain	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
Spin Speed	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3	SPN3				
Spin (only if preceded by 'drain') minutes	2	2	2	2	2	2	2	2	2	2				

Table 6