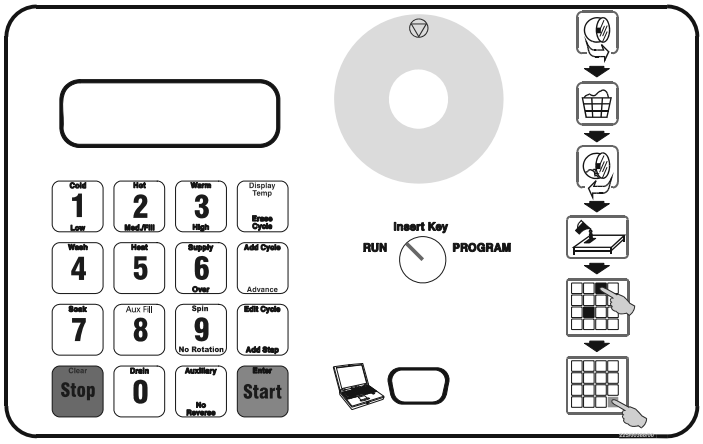
Washer-Extractors

Cabinet Freestanding
WE-8 Computer

Programming



Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

Part No. 9002101R2
July 2011

WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

NOTE: The WARNING and IMPORTANT instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and carefulness are factors which cannot be built into these washers. These factors MUST BE supplied by the person(s) installing, maintaining, or operating the washer.

Always contact the distributor, service agent, or the manufacturer about any problems or conditions you do not understand.

Table of Contents

Introduction

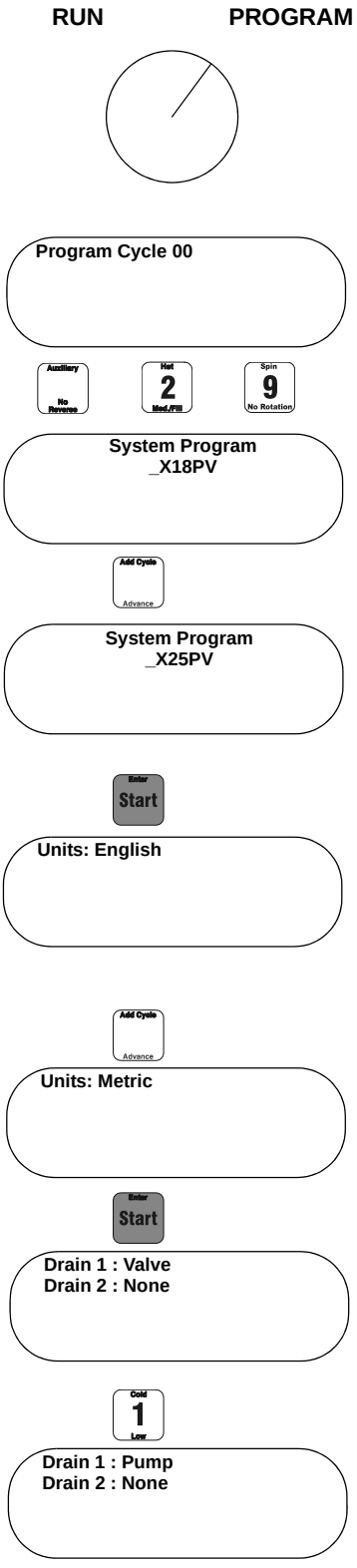
Model Identification

Information in this manual is applicable to these models:

UX55PVXF6	UX055PVXF7
UX55PVXF7	

Programming

Setup of the Machine



Turn key from Run to Program

To go to the main setup of the machine, press “Auxiliary”, “2”, “9”.

To change the machine type, press the “Advance” button. The following types are possible:

_X18PV	_X55PV	_X135PV
_X25PV	_X75PV	_X165PV

Press the “Advance” button until the right type of machine is selected. Press the “Enter” button.

Select the desired units.

NOTE: English means level in inch and temperature in °F. Metric means level in cm and temperature in °C.

Press the “Advance” button to change the units.

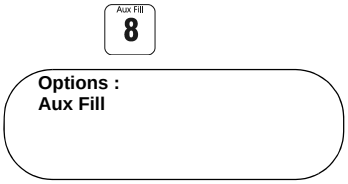
Press the “Enter” button.

Select the type of drain valve.

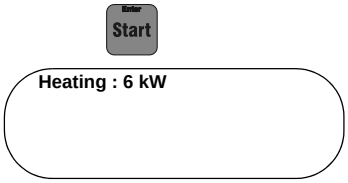
Press “1” to change drain 1 to pump or valve.

Press “2” to change drain 2 to pump, valve or none.

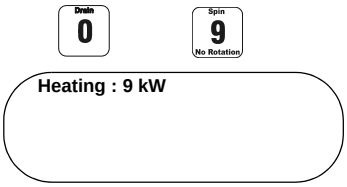
Press the “Enter” button to select options.



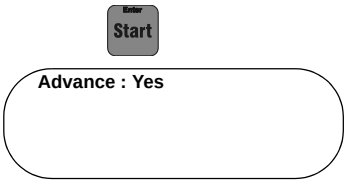
Press the “Aux Fill” button for auxiliary fill option or press “Enter” for heating.



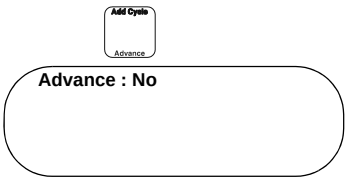
If heating is selected, the user can fill in the kW of the electrical heating (example: 9 kW).



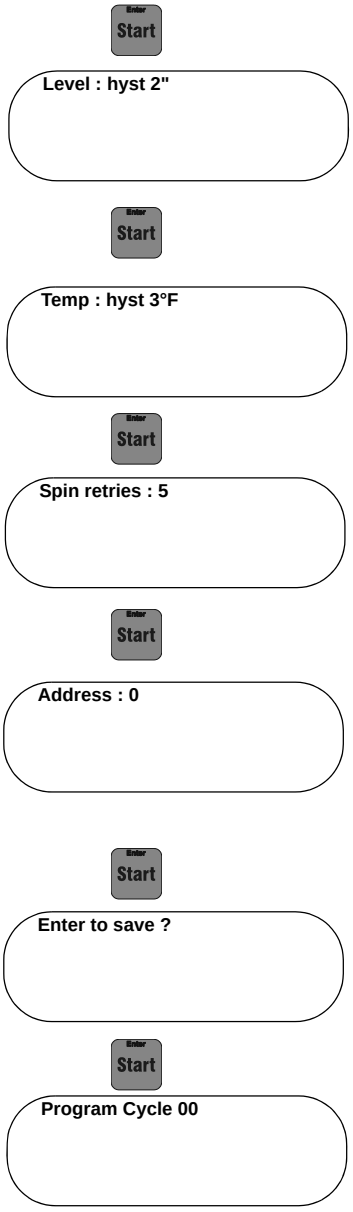
Press “0”, “9”.



Press “Enter” to select advance mode in run mode yes or no.



Press “Advance” to change between yes and no.



Press “Enter” to set the hysteresis level (level at which water drops before it senses it must refill).

If English is selected for units, this value will be in inches. If Metric is selected for units, this value will be in cm.

Select between 1 to 9 cm or inches.

Press “Enter” to select the temperature hysteresis (level at which temperature drops before machine senses it must reheat).

If English is selected for units, this value will be in °F. If Metric is selected for units, this value will be in °C. Select 1 to 9 °C or °F.

Press the “Enter” button to set the spin retries. Select 1 to 9 spin retries.

Press “Enter” to set the network address of the machine. If this is not used, press “Enter”.

The address of the machine has to be set if you network the machine. Each machine should have a different address.

Fill in between 00 and 99.

Press “Enter” to finish the settings.

Press “Enter” to save the settings or press “Stop” to exit without saving.

Version of Control

To determine control version, apply power to machine. Control will display version of control (i.e., 1.15).

Language on Display (Version 1.15 and later ONLY)

To set a different language on the WE-8 display:

1. Turn key from RUN to PROGRAM.
2. Press “Auxiliary”, “2” and “9” to enter set-up mode.
3. English will display. Press “Advance” until desired language displays (French, Italian, Spanish and German).
4. Press “Enter” keypad.
5. Press “Enter” to advance through set-up mode.
6. Wait until information is saved.
7. Turn key from PROGRAM to RUN.
8. Display will read language chosen for all cycles.

Setup of the Chemical Hold Feature (Version 1.11 and later ONLY)

- At power up, verify that model is at least version 1.11. Refer to version of Control Section. Earlier versions do not have this chemical hold feature.
- Insert key into key switch and turn to Program.
- Push the Auxiliary key, the 2 key, and the 9 key in succession to enter System Program Mode.
- Push the Start key 10 times to arrive at the Chemical hold choice.
- Push the Add Cycle/Advance key to toggle the Chemical hold feature either Yes (on) or No (off).
- Push the Start key twice to save changes and exit System Program Mode.
- Turn key switch to Run.

NOTE: If chemical hold is on, then a switch closure/opening between pins 1 and 4 of the COIN header on the output board will control supplies 4 through 9. A closure will turn the programmed supply/ies on and count down the time for the supply to be on. An opening will turn the programmed supply/ies off and halt the time for the supply to be on.

NOTE: If chemical hold is off, then supplies 4 through 9 are controlled exactly like supplies 1 through 3. A switch closure/opening between pins 1 and 4 of the COIN header on the output board will have no effect.

Program Storing Mode

The WE-8 control is capable of 99 total Cycles. One cycle contains 1 or more steps.

One step is a function of the wash program (example: heat).

Choose between the following functions:

Fill:	To fill the machine with water.
Wash:	Wash action of the machine.
Supply:	To add detergent to the wash (liquid or powder).
Cooldown:	Cool to programmed temperature.
Heat:	To heat the water.
Soak:	The wash will be soaked for a programmed time and a programmed temperature.
Aux:	A relay contact will close for a programmed time.
Spin:	To spin the machine for a programmed time and RPM.
Drain:	To drain the water from the machine.

Explanation of the Step Functions

Fill:

Choose between 4 water inlet configurations and 3 water levels.

Water Inlet Configurations:

Cold: Only opens the cold water valve.

Hot: Only opens the hot water valve.

Warm: Opens the cold and hot water valves.

Aux Fill: Opens an auxiliary water valve if installed.

Water Levels:

Low: Low water level.

Med: Medium water level.

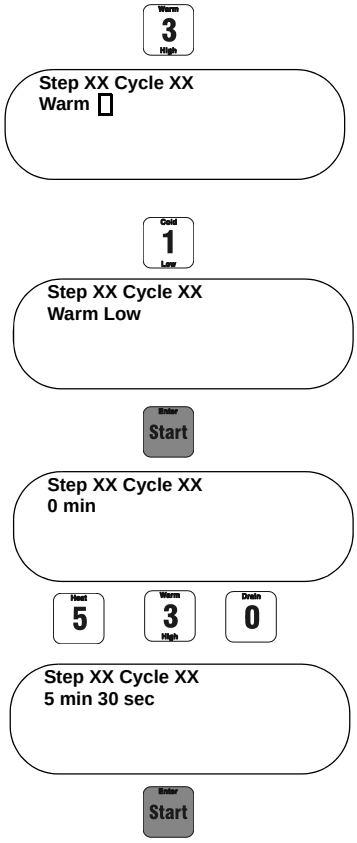
High: High water level.

The inlet configurations and the fill levels appear on the keypad, keys 1, 2, 3 and 8.

Be sure to select first the inlet configuration and then the water level.

Then you will be asked for the step time limit.

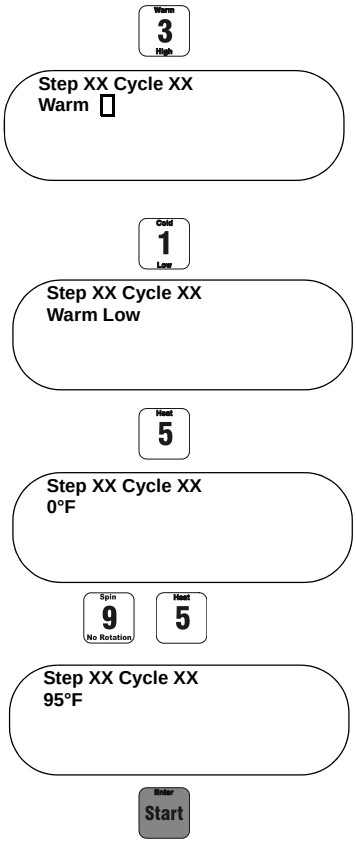
Example: Warm Low (time limit 5 minutes 30 seconds)

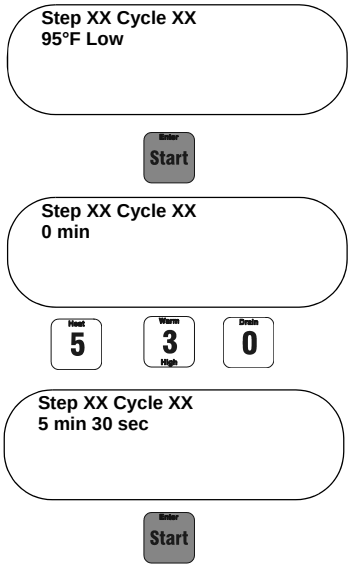


NOTE: If a fill error occurs, then machine has 2 minutes to finish filling. If after 2 minutes it has not finished filling, cycle is aborted.

It is possible to more accurately control the temperature of water coming in to the machine during a fill step. This does not apply to “Aux Fill” step. The control will mix the hot and cold water inlet to the temperature programmed in the fill function. To fill in the temperature, select the water inlet type and the water level. Press the “Heat” button and the control will ask the temperature. In this way the water inlet type selected is of no use because the control will mix between the cold and hot water inlet to reach the temperature.

Example: Fill to low level and 95°F (step time limit: 5 minutes 30 seconds).





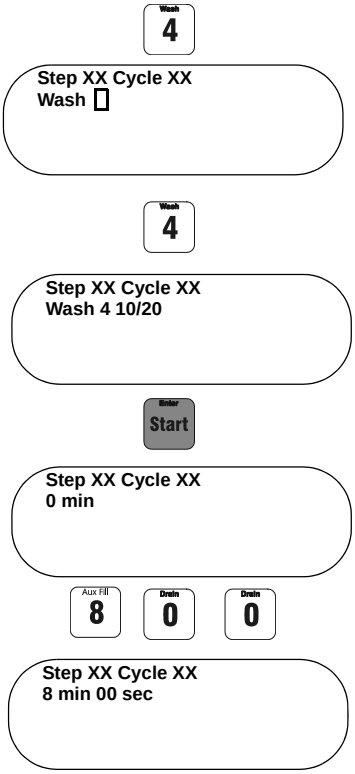
Wash:

Choose between 7 different preset wash actions.

	Action Time (sec)	Stop Time (sec)	G-force
Wash 1	18	3	0.5
Wash 2	3	27	0.5
Wash 3	0	0	0
Wash 4	10	20	0.5
Wash 5*	18	3	0.5
Wash 6	4	56	0.5
Wash 7	0	0	0

The “Wash” button is button 4 on the display.

Example: Wash 4 for 8 minutes 00 seconds.



* Refer to section on Wash 5 Thermal Cool-Down.

Supply:

Choose between 9 different supplies.

Supply 1: Turns on the water valve in compartment A of the supply box.

Supply 2: Turns on the water valve in compartment B of the supply box.

Supply 3: Turns on the water valve in compartment C of the supply box.

Supply 4: Activates supply pump 1.

Supply 5: Activates supply pump 2.

Supply 6: Activates supply pump 3.

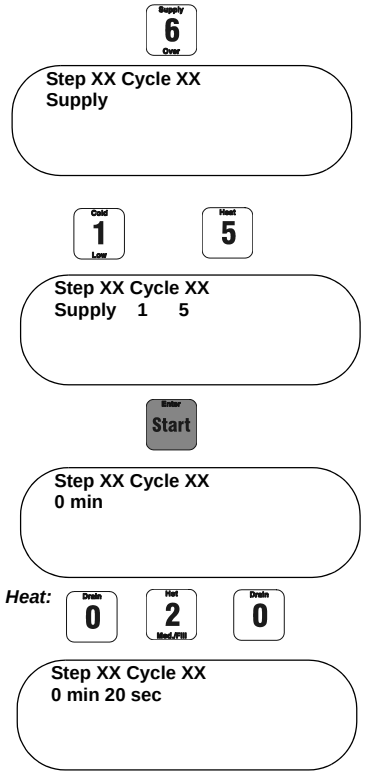
Supply 7: Activates supply pump 4.

Supply 8: Activates supply pump 5.

Supply 9: Activates supply pump 6.

The Supply button is button 6.

Example: Supply 1 and 5 for 20 seconds.

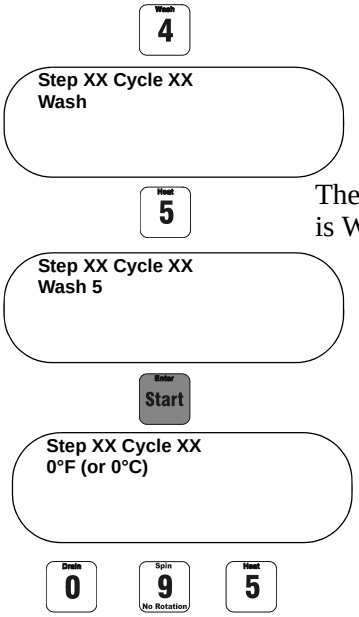


Chemical Hold Feature

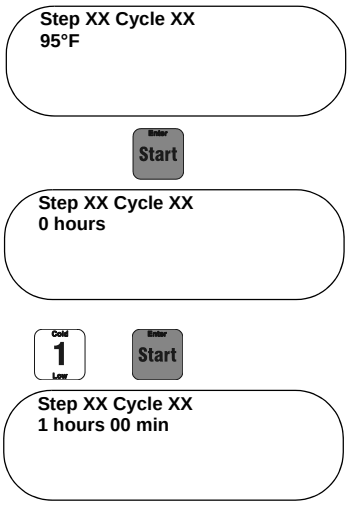
Chemical supply injection can be paused. Refer to Setup of Chemical Hold Feature.

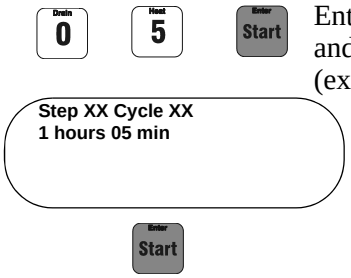
Wash 5 Thermal Cool-Down

Immediately after a heat step, a temperature-controlled thermal cool-down may be programmed to prevent fiber shock from sudden cool-down.



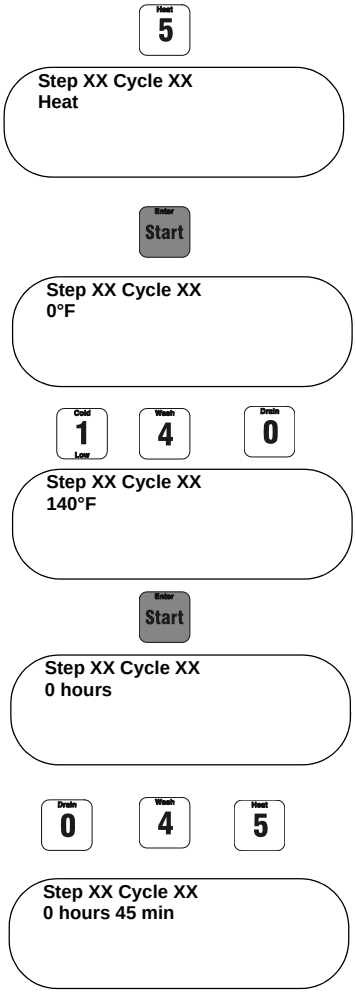
Enter desired temperature for load to cool down to. Three digits must be used for temperature. If Fahrenheit, the valid temperature range is 80° – 200°F. If Celcius, valid temperature range is 25° – 90°C (example: 95°F).





The “Heat” button is number 5.

Example: Heat up to 140°F with the time limit of 45 minutes.

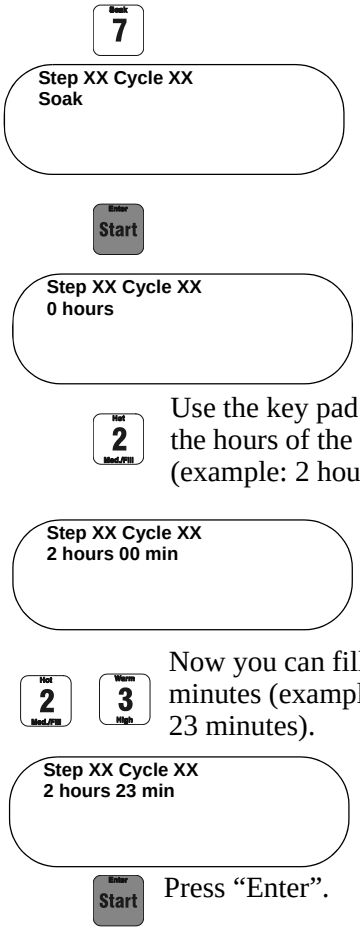


Soak:

Button 7 is the “Soak” button.

By pressing button 7, “Soak” will appear on the display. Press “Enter” to fill in the soak time.

Example: Soak for 2 hours.



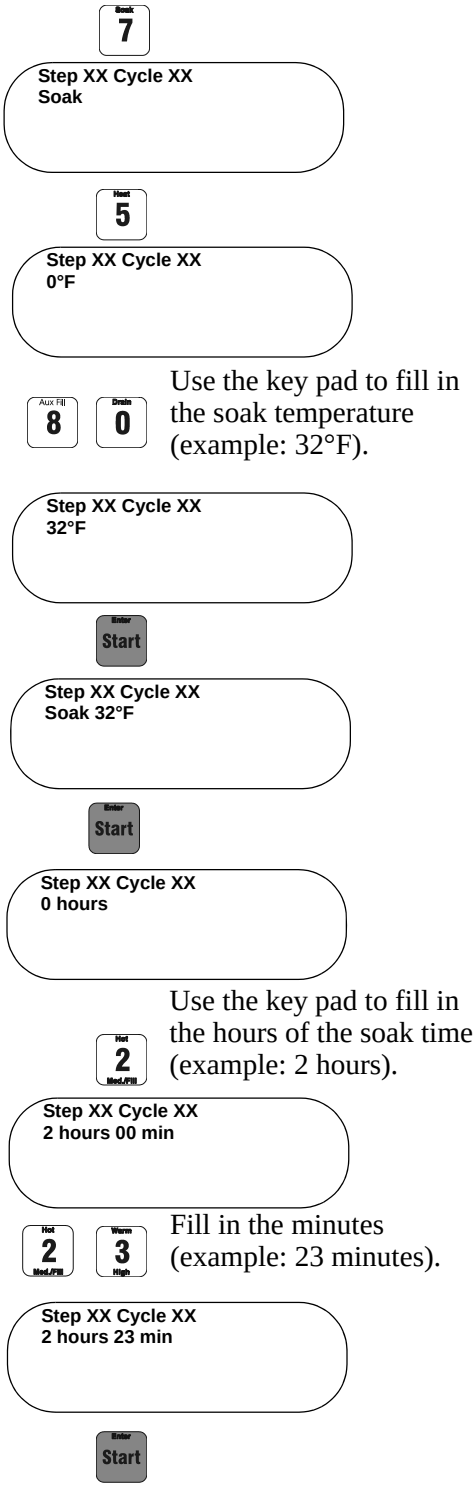
Use the key pad to fill in the hours of the soak time (example: 2 hours).

Now you can fill in the minutes (example: 23 minutes).

Press “Enter”.

The temperature of the soak will be the temperature programmed in the previous step. You can also change the temperature by pressing first “Soak” and then “Heat”.

Example: Soak time of 2 hours with 32°F.



Use the key pad to fill in the soak temperature (example: 32°F).

Use the key pad to fill in the hours of the soak time (example: 2 hours).

Fill in the minutes (example: 23 minutes).

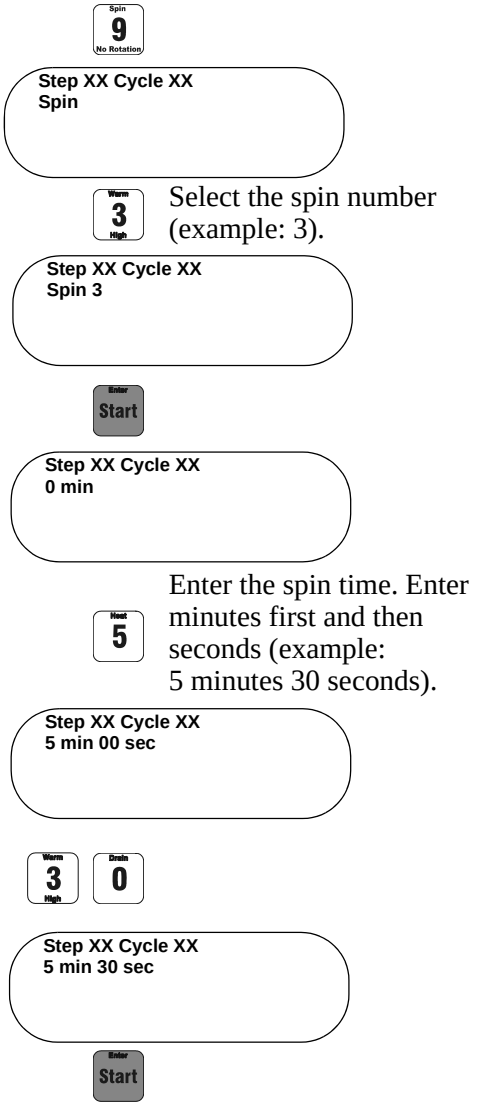
Press “Enter”.

Spin:

Choose between 4 preset spin speeds.

	18-75 Models	100/135 Models	165 Models
Spin 1 RPM	500	500	500
Spin 2 RPM	650	650	650
Spin 3 RPM	800	800	750
Spin 4 RPM	1000	80	750

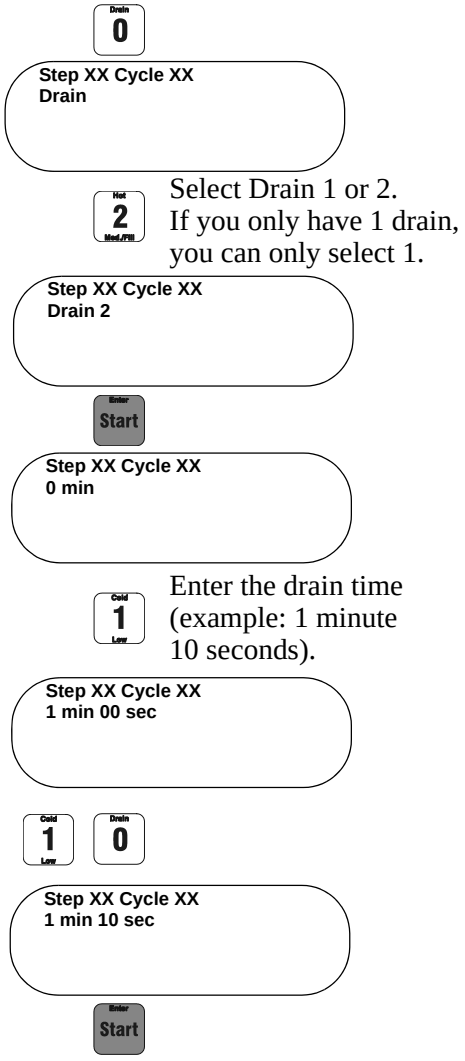
“Spin” is button 9.



Drain:

This function drains the water.

If you have 2 drains, select which drain has to be opened.



NOTE: With the WE-8 control, it is NOT necessary to program a drain step before spin. The spin step incorporates the balancing routine and draining before beginning high speed spin (as a sub part of the spin step). A programmed drain step will be skipped if spin step is programmed immediately after it.

Example: Making a New Program

Program 51

Step 1: Fill warm water to low level
(5 minutes 30 seconds time limit)

Step 2: Supply 1 and 5 for 20 seconds

Step 3: Heat up to 140°F (45 minutes time limit)

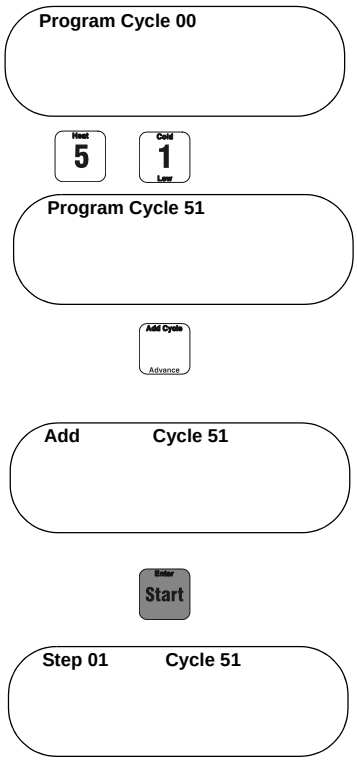
Step 4: Wash action 4 for 8 minutes 00 seconds

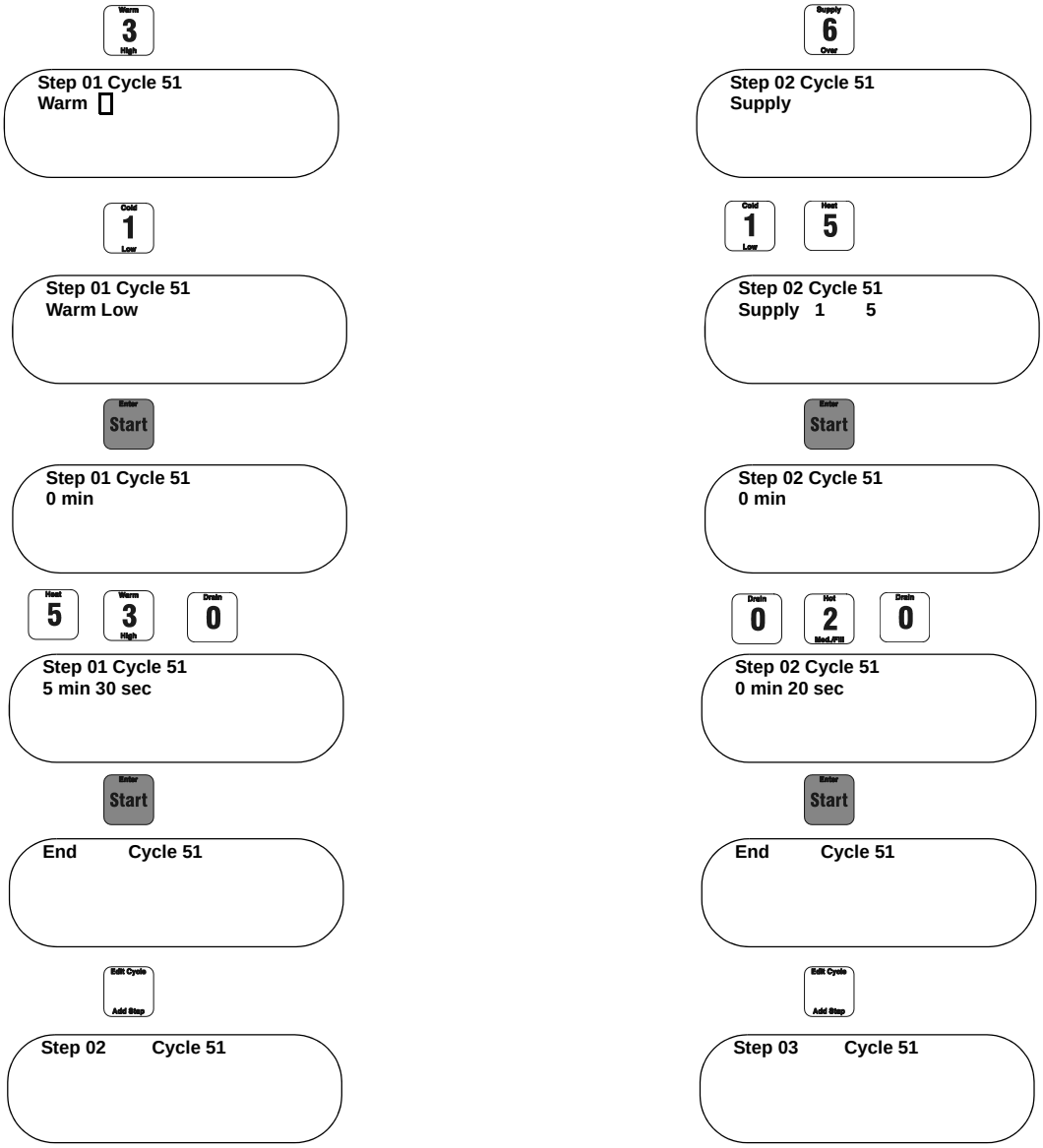
Step 5: Drain 1 for 1 minutes 25 seconds

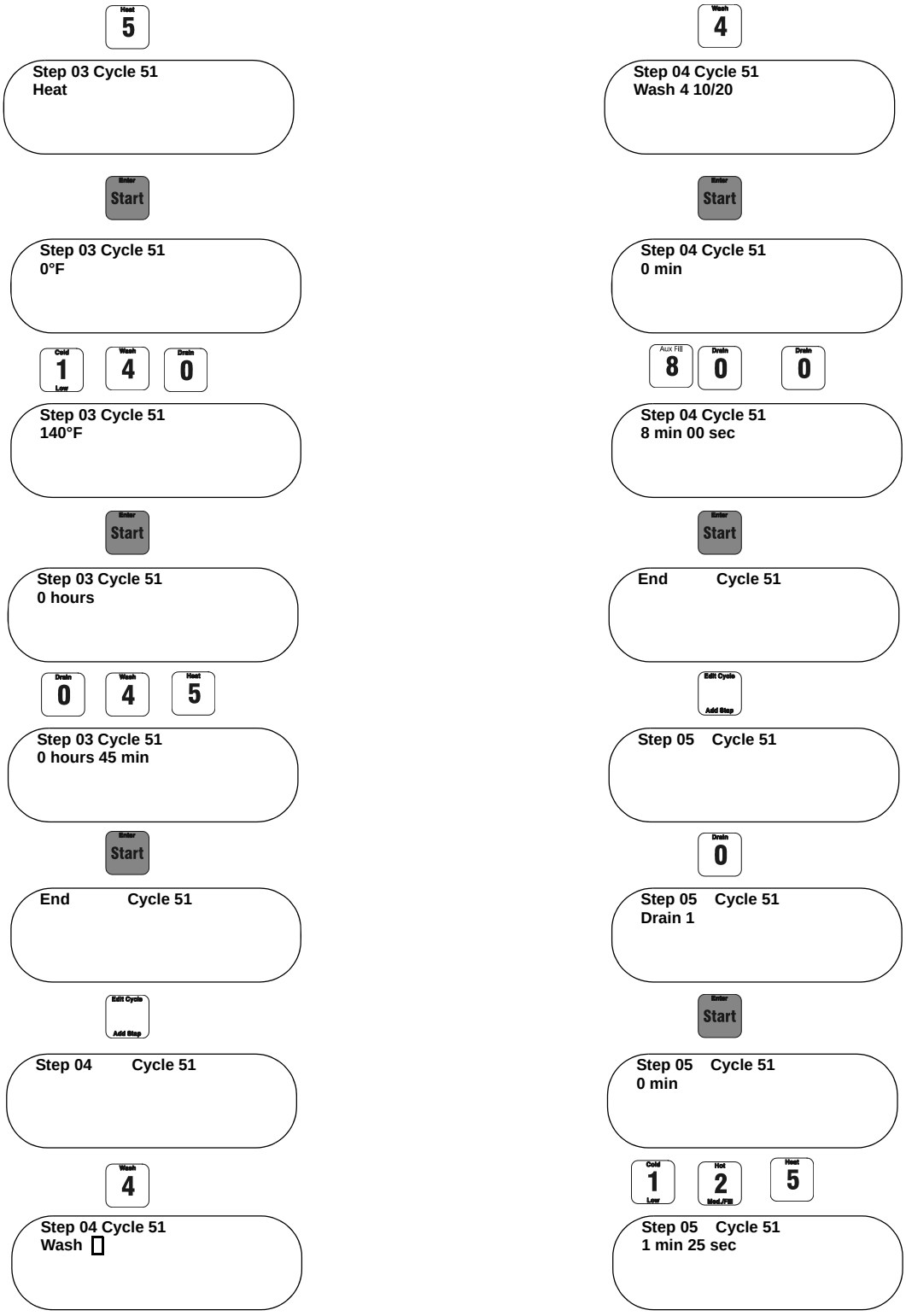
Step 6: Spin 3 for 8 minutes 30 seconds

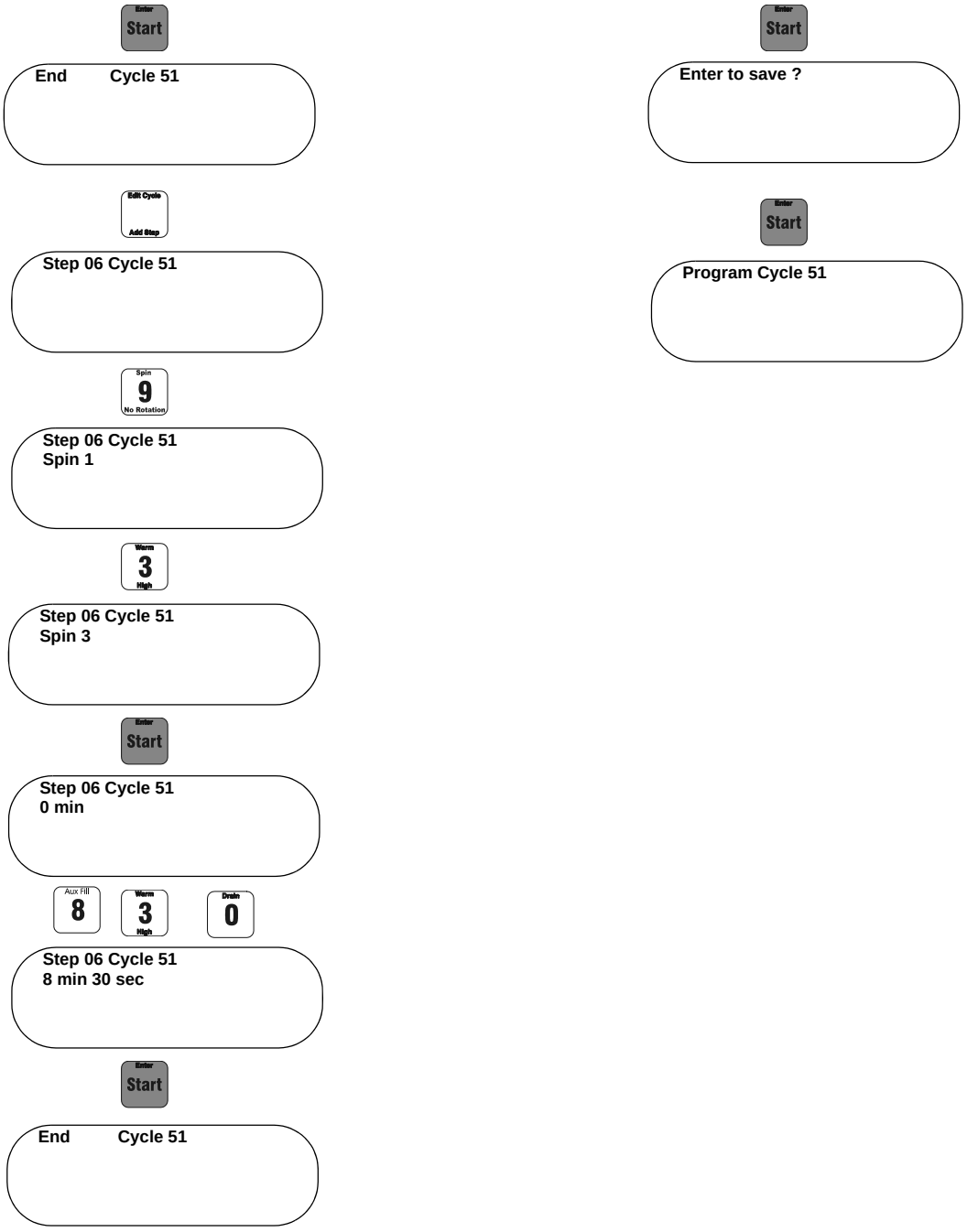
To program or edit cycles turn the key into the Program Mode.

“Program Cycle xx” will be shown on the display.



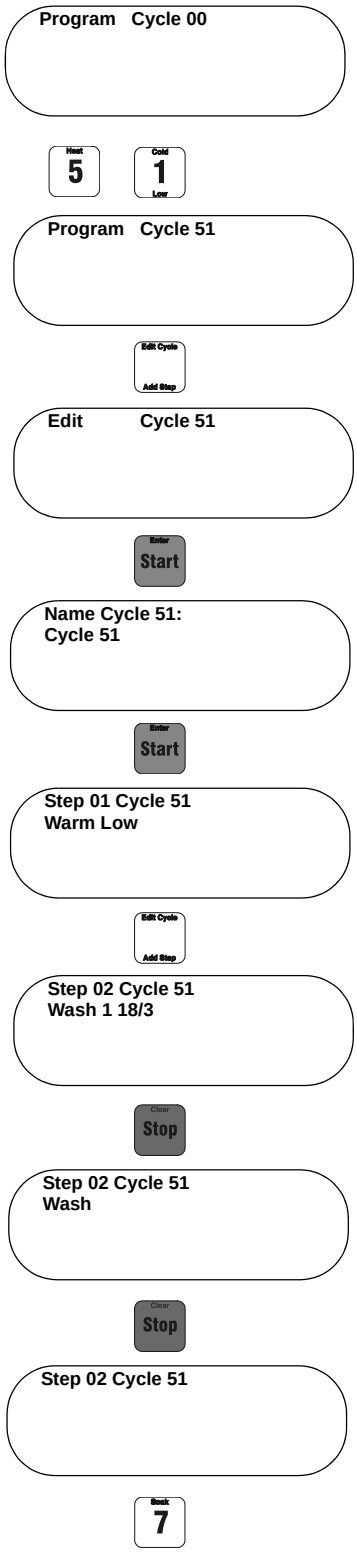






Edit a Cycle

Change a Complete Step



To edit a cycle enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

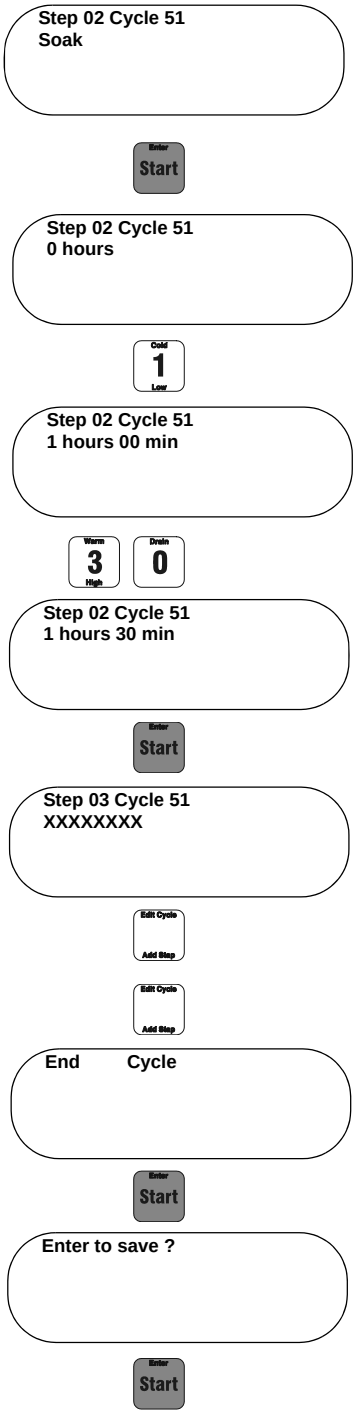
Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

If you would like to change the step, press the “Clear” button.

Select another wash action or press the “Clear” button to change the function.

Fill in the function desired (example: soak for 1 hour 30 minutes).

Press the “Soak” button.

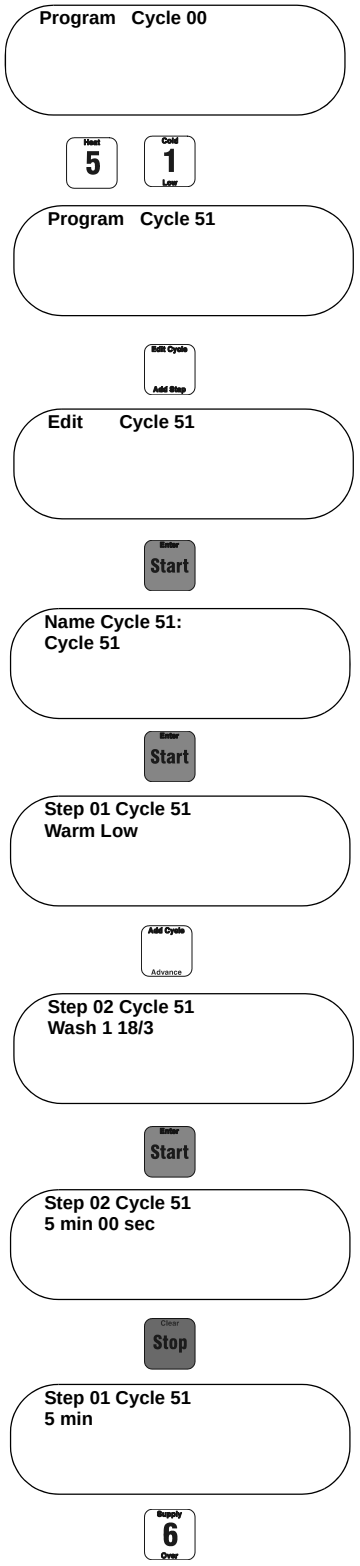


The control is then in the next step of cycle 51. Press “Advance” until the display shows “end cycle 55”.

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

Changing the Time of a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

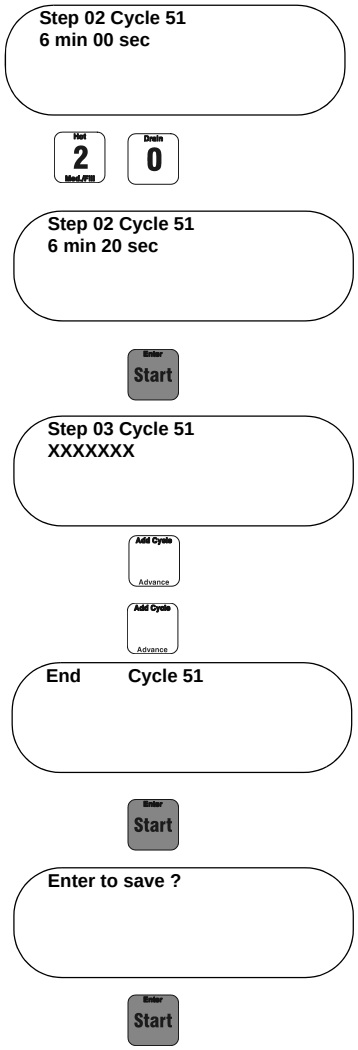
The first step of cycle 51 will display.

Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

Press “Enter” to change the time of the wash action.

Press “Clear” to change the time.

Fill in another time (example: 6 minutes 20 seconds).



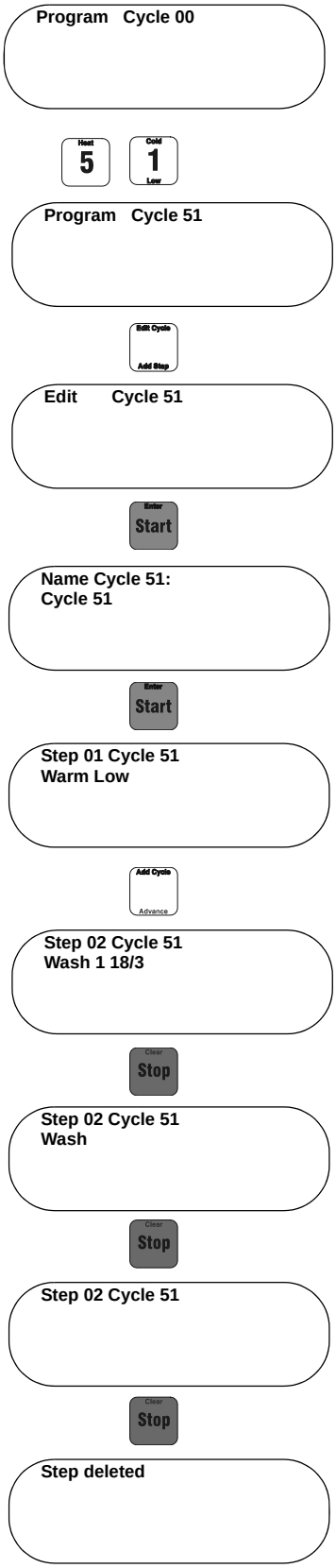
Press “Enter” to go to the next step.

Press the “Advance” button until display shows “End Cycle 51”.

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

Delete a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

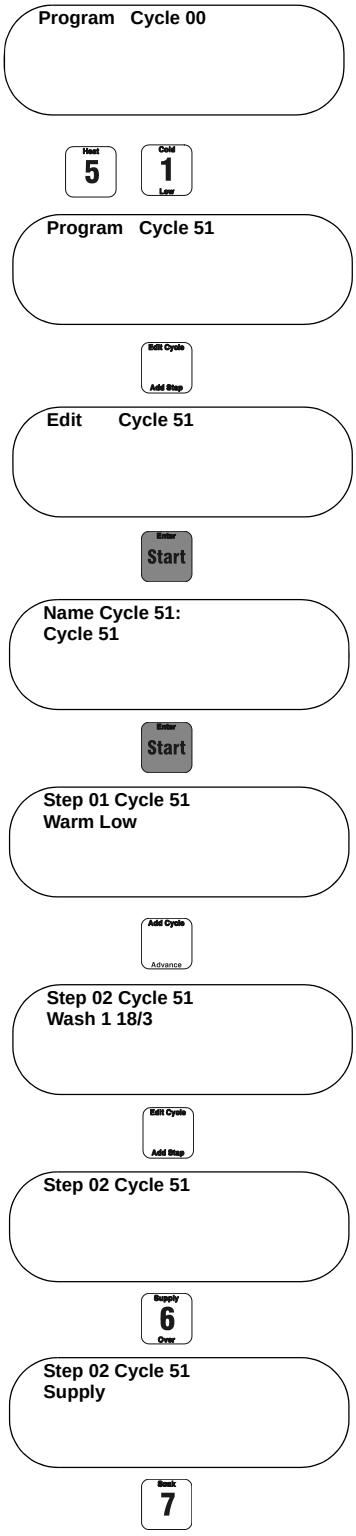
Press the “Clear” button to change the step.

Press the “Clear” button again.

Press the “Clear” button once more.

The step is deleted. Press the “Advance” button to end cycle 51 and press “Enter” 2 times to save the settings.

Insert a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

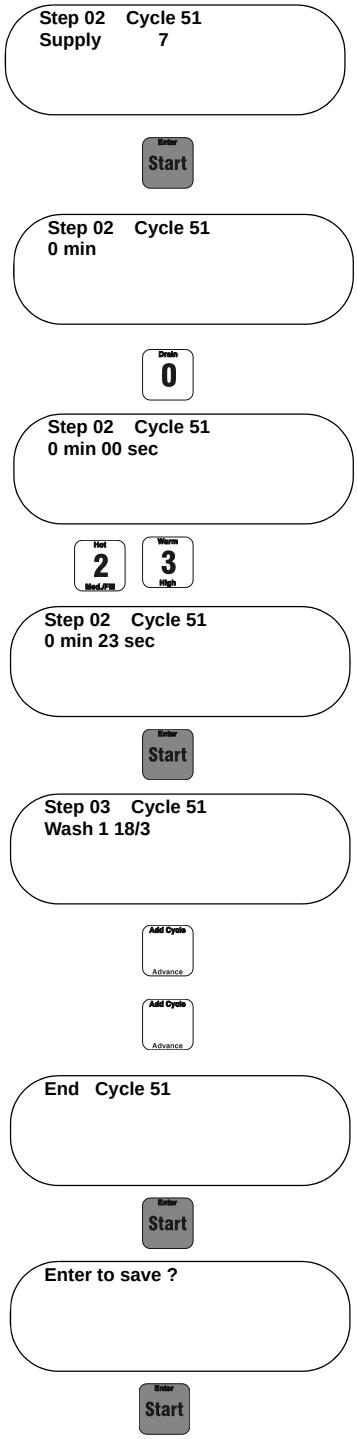
Select the position where you would like to add a step by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

Push the “Add Step” button to add a step.

The control will insert a step before the step selected.

Select the function (example: supply).

Press the supply number (example: supply 7).



Press “Enter” to confirm.

Enter the time to activate the supply (example: 0 minutes 23 seconds).

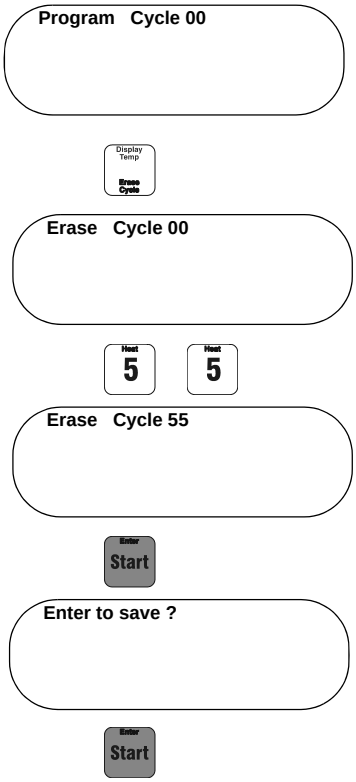
Press “Enter” to confirm.

Press the “Advance” button until “End Cycle 51” is displayed.

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

Delete a Cycle



Press the “Erase Cycle” button.

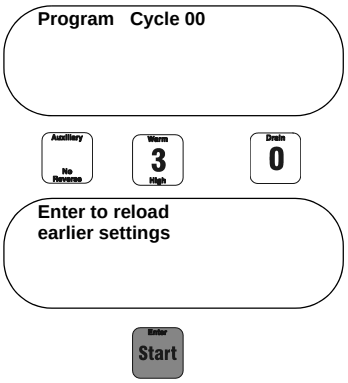
Press the number of the cycle being erased (example: 55).

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

Reloading Previous Settings

This special function allows previous settings to be restored.



Press “Auxiliary”, “3”, “0”.

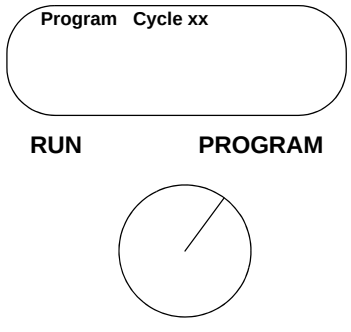
The control will ask if earlier settings are desired.

Press “Enter” to confirm the settings.

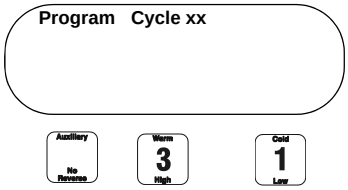
NOTE: This function only goes back to the last programming function entered.

Cycle Count

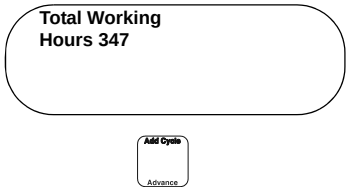
Reading Cycle Count



1. Enter Program Mode by turning key to PROGRAM position (xx represents a cycle number from 00 to 99).

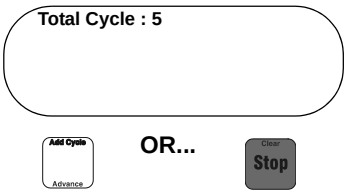


2. Press “Auxiliary” key, then “3” key, then “1” key.



3. The total hours of cycle operation (actual run time) will display. Press “Advance” key to continue.

   Example display shows 347 total hours (of all cycles).



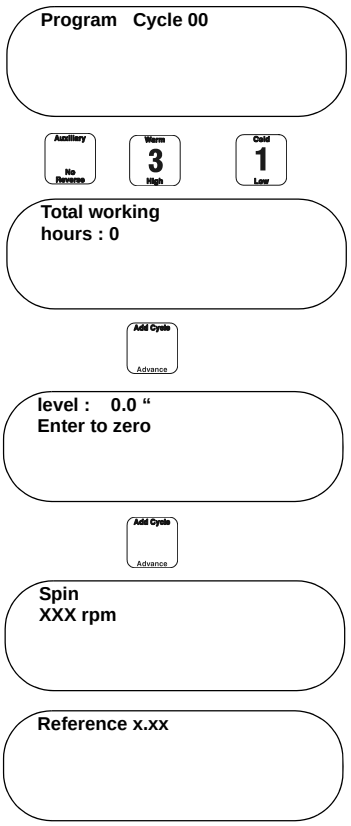
4. Display now shows total cycle count. Press “Advance” key to continue into calibration mode, or press “Clear/Stop” key to exit.

   Example display shows 5 total cycles have been run.

Calibration of the Machine

The _x__PV should reflect the size selected in earlier steps.

Turn key to Program Mode.



Press “Auxiliary”, “3”, “1”.

The total hours the machine was running will be displayed.

Press “Advance” and screen will show total cycles.

Press “Advance” to calibrate the water level sensor.

If the value is not zero, press “Enter” and the value will change to zero.

Press “Advance” to calibrate the motor.

The board will lock the door and let the motor spin at approximately 500 rpm (Firmware version 1.12 or higher). The rpm will increase on the display. If the machine reached approximately 500 rpm, the display will show a reference value.

After the reference value is shown, the machine will coast down to stop. When the machine stands still, the board will unlock the door.

Speed Calibration

This function automatically calibrates water level, distribution speed and spin speed.

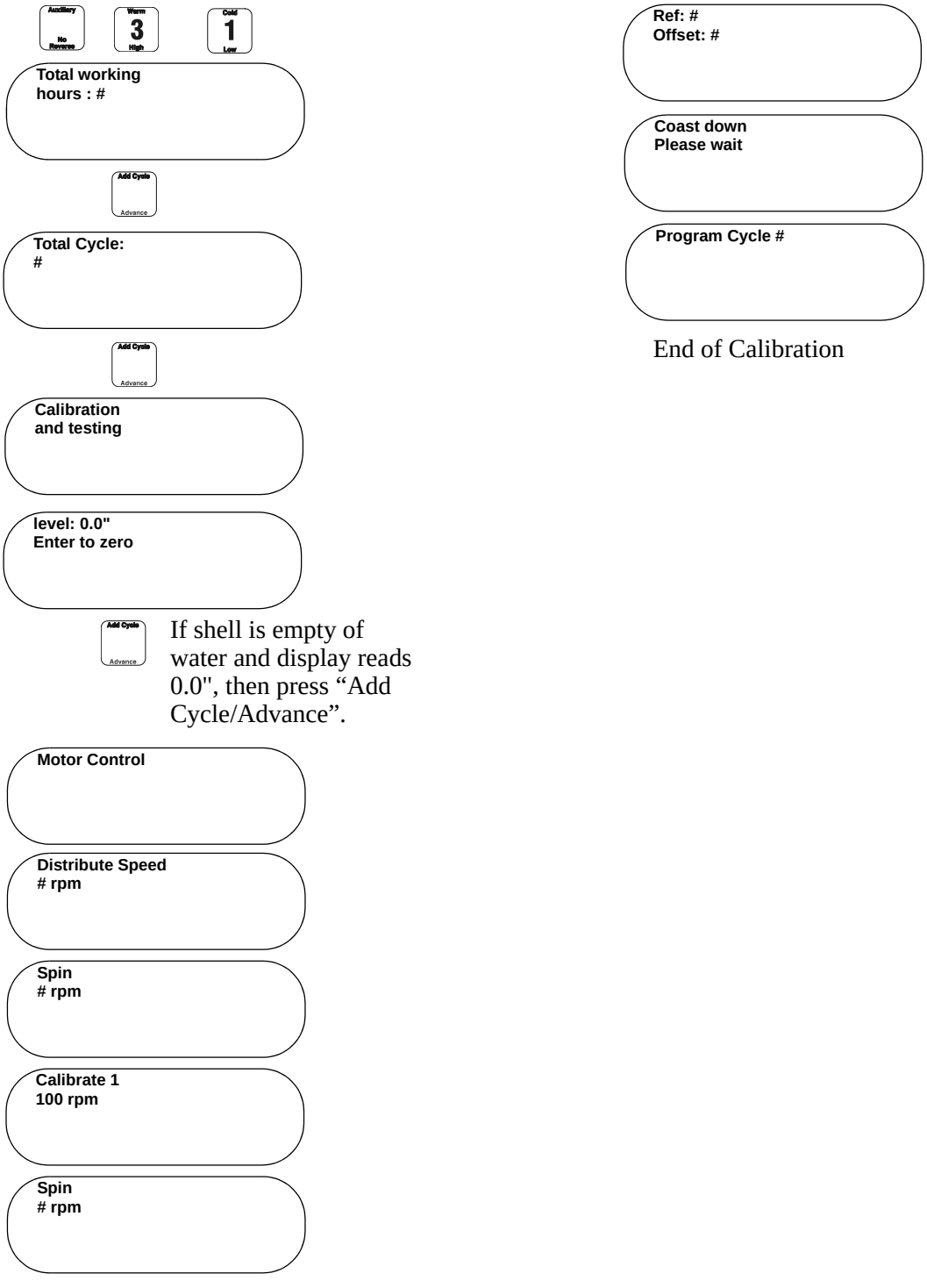


Table 1

Cycle 01 Initial Fill		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	3:30
2	Drain 2	2:30
3	Warm Fill to High Level	3:30
4	Drain 2	2:30
5	Warm Fill to High Level	3:30
6	Wash 3, no agitation (32 F)	1:00
7	Drain 2	2:30
8	Warm Fill to High Level	3:30
9	Wash 3, no agitation (32 F)	1:00
10	Drain 2	2:30
11	Warm Fill to High Level	3:30
12	Wash 3, no agitation (32 F)	1:00
13	Drain 2	2:30
14	Warm Fill to High Level	3:30
15	Wash 3, no agitation (32 F)	1:00
16	Drain 2	2:30
17	Warm Fill to High Level	3:30
18	Wash 3, no agitation (32 F)	1:00
19	Drain 2	2:30
20	Warm Fill to High Level	3:30
21	Wash 3, no agitation (32 F)	1:00
22	Drain 2	2:30
23	Warm Fill to High Level	3:30
24	Wash 3, no agitation (32 F)	1:00
25	Drain 2	2:30
26	Warm Fill to Low Level	3:30

Table 1

Cycle 01 Initial Fill		
Step	**Description**	**Min:sec**
27	Wash 3, no agitation (32 F)	1:00
28	Drain 2	2:30

Table 2

Cycle 02 White Linen's		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 2	2:30
5	Auxiliary Fill to Med Level	1:30
6	Hot Fill to Med Level	5:00
7	Supply 4	0:03
8	Wash 1 18/3 (32 F)	5:30
9	Supply 5	0:30
10	Wash 1 18/3 (32 F)	5:00
11	Drain 1	2:30
12	Auxiliary Fill to High Level	1:30
13	Warm Fill to High Level	5:00
14	Supply 9	1:30
15	Wash 1 18/3 (32 F)	2:00
16	Drain 2	2:30
17	Warm Fill to High Level	5:00
18	Wash 1 18/3 (32 F)	2:00
19	Drain 2	2:30
20	Warm Fill to Low Level	5:00
21	Supply 6	0:30
22	Wash 1 18/3 (32 F)	4:00
23	Drain 2	2:30
24	Spin 4	3:00

Table 3

Cycle 03 BDU's		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to Med Level	1:30
2	Hot Fill to Med Level	5:00
3	Supply 4	0:05
4	Wash 1 18/3 (32 F)	5:30
5	Drain 1	2:30
6	Auxiliary Fill to Med Level	1:30
7	Hot Fill to Med Level	5:00
8	Wash 1 18/3 (32 F)	3:00
9	Drain 1	2:30
10	Warm Fill to High Level	5:00
11	Wash 1 18/3 (32 F)	3:00
12	Drain 2	2:30
13	Warm Fill to Med Level	5:00
14	Supply 6	0:30
15	Wash 1 18/3 (32 F)	3:00
16	Drain 2	2:30
17	Spin 4	3:00

Table 4

Cycle 04 Color Linen's		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 2	2:30
5	Auxiliary Fill to Med Level	1:30
6	Hot Fill to Med Level	5:00
7	Supply 4	0:07
8	Wash 1 18/3 (32 F)	5:30
9	Drain 1	2:30
10	Auxiliary Fill to High Level	1:30
11	Warm Fill to High Level	5:00
12	Wash 1 18/3 (32 F)	2:00
13	Drain 2	2:30
14	Warm Fill to High Level	5:00
15	Wash 1 18/3 (32 F)	2:00
16	Drain 2	2:30
17	Warm Fill to Low Level	5:00
18	Supply 6	0:30
19	Wash 1 18/3 (32 F)	4:00
20	Drain 2	2:30
21	Spin 4	3:00

Table 5

Cycle 05 W/L Min Reuse		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Supply 4	0:03
7	Wash 1 18/3 (32 F)	5:30
8	Supply 5	0:30
9	Wash 1 18/3 (32 F)	5:00
10	Drain 1	2:30
11	Warm Fill to High Level	5:00
12	Supply 9	1:30
13	Wash 1 18/3 (32 F)	2:00
14	Drain 1	2:30
15	Warm Fill to High Level	5:00
16	Wash 1 18/3 (32 F)	2:00
17	Drain 1	2:30
18	Warm Fill to Low Level	5:00
19	Supply 6	0:30
20	Wash 1 18/3 (32 F)	4:00
21	Drain 2	2:30
22	Spin 4	3:00

Table 6

Cycle 06 BDU's Min Reuse		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Supply 4	0:05
4	Wash 1 18/3 (32 F)	5:30
5	Drain 1	2:30
6	Hot Fill to Med Level	5:00
7	Wash 1 18/3 (32 F)	3:00
8	Drain 1	2:30
9	Warm Fill to High Level	5:00
10	Wash 1 18/3 (32 F)	3:00
11	Drain 1	2:30
12	Warm Fill to Low Level	5:00
13	Supply 6	0:30
14	Wash 1 18/3 (32 F)	3:00
15	Drain 2	2:30
16	Spin 4	3:00

Table 7

Cycle 07 C/L Min Reuse		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Supply 4	0:07
7	Wash 1 18/3 (32 F)	5:30
8	Drain 1	2:30
9	Warm Fill to High Level	5:00
10	Wash 1 18/3 (32 F)	2:00
11	Drain 1	2:30
12	Warm Fill to High Level	5:00
13	Wash 1 18/3 (32 F)	2:00
14	Drain 1	2:30
15	Warm Fill to Low Level	5:00
16	Supply 6	0:30
17	Wash 1 18/3 (32 F)	4:00
18	Drain 2	2:30
19	Spin 4	3:00

Table 8

Cycle 08 W/L No Reuse		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Wash 1 18/3 (32 F)	2:00
3	Drain 1	2:30
4	Hot Fill to Med Level	5:00
5	Supply 4	0:03
6	Wash 1 18/3 (32 F)	5:30
7	Supply 5	0:30
8	Wash 1 18/3 (32 F)	5:00
9	Drain 1	2:30
10	Warm Fill to High Level	5:00
11	Supply 9	1:30
12	Wash 1 18/3 (32 F)	2:00
13	Drain 1	2:30
14	Warm Fill to High Level	5:00
15	Wash 1 18/3 (32 F)	2:00
16	Drain 1	2:30
17	Warm Fill to Low Level	5:00
18	Supply 6	0:30
19	Wash 1 18/3 (32 F)	4:00
20	Drain 1	2:30
21	Spin 4	3:00

Table 9

Cycle 09 BDU;s No Reuse		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Supply 4	0:05
3	Wash 1 18/3 (32 F)	5:30
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Wash 1 18/3 (32 F)	3:00
7	Drain 1	2:30
8	Warm Fill to High Level	5:00
9	Wash 1 18/3 (32 F)	3:00
10	Drain 1	2:30
11	Warm Fill to Low Level	5:00
12	Supply 6	0:30
13	Wash 1 18/3 (32 F)	3:00
14	Drain 1	2:30
15	Spin 4	3:00

Table 10

Cycle 10 CL NoReuse		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Wash 1 18/3 (32 F)	2:00
3	Drain 1	2:30
4	Hot Fill to Med Level	5:00
5	Supply 4	0:07
6	Wash 1 18/3 (32 F)	5:30
7	Drain 1	2:30
8	Warm Fill to High Level	5:00
9	Wash 1 18/3 (32 F)	2:00
10	Drain 1	2:30
11	Warm Fill to High Level	5:00
12	Wash 1 18/3 (32 F)	2:00
13	Drain 1	2:30
14	Warm Fill to Low Level	5:00
15	Supply 6	0:30
16	Wash 1 18/3 (32 F)	4:00
17	Drain 1	2:30
18	Spin 4	3:00

Table 11

Cycle 11 Bag Filter		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Warm Fill to High Level	5:00
3	Supply 4	0:09
4	Wash 1 18/3 (32 F)	5:30
5	Drain 1	2:30
6	Warm Fill to High Level	5:00
7	Supply 6	0:05
8	Wash 1 18/3 (32 F)	5:00
9	Drain 1	2:30
10	Spin 1	0:30

Table 12

Cycle 30 Reuse Topoff		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Drain 2	2:30

Table 13

Cycle 31 Filter Flush/Cln		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Drain 2	2:30
3	Warm Fill to High Level	5:00
4	Drain 2	2:30
5	Wash 3, no agitation (32 F)	3:00
6	Warm Fill to High Level	5:00
7	Drain 2	2:30
8	Wash 3, no agitation (32 F)	3:00
9	Warm Fill to Low Level	5:00
10	Drain 2	2:30

Table 14

Cycle 32 Filter Storage		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Supply 1	1:30
3	Drain 2	2:30
4	Warm Fill to High Level	5:00
5	Supply 2	1:30
6	Drain 2	2:30
7	Warm Fill to High Level	5:00
8	Drain 2	2:30
9	Warm Fill to Med Level	5:00
10	Drain 2	2:30
11	Wash 3, no agitation (32 F)	2:00
12	Auxiliary Fill to Med Level	1:30
13	Drain 2	2:30
14	Auxiliary Fill to Med Level	1:30
15	Wash 3, no agitation (32 F)	1:30
16	Drain 2	2:30
17	Auxiliary Fill to Med Level	1:30
18	Wash 3, no agitation (32 F)	1:30
19	Drain 2	2:30
20	Auxiliary Fill to Med Level	1:30
21	Wash 3, no agitation (32 F)	1:30
22	Drain 2	2:30
23	Auxiliary Fill to Med Level	1:30
24	Wash 3, no agitation (32 F)	1:30
25	Drain 2	2:30
26	Auxiliary Fill to Med Level	1:30
27	Wash 3, no agitation (32 F)	1:30

Table 14

Cycle 32 Filter Storage		
Step	**Description**	**Min:sec**
28	Drain 2	2:30
29	Auxiliary Fill to Med Level	1:30
30	Wash 3, no agitation (32 F)	1:30
31	Drain 2	2:30
32	Auxiliary Fill to Med Level	5:00
33	Wash 3, no agitation (32 F)	1:30
34	Drain 2	2:30

Table 15

Cycle 33 Winter Soap Dispenser		
Step	**Description**	**Min:sec**
1	Supply 4	0:03
2	Wash 3, no agitation (32 F)	3:00
3	Supply 5	3:00
4	Supply 6	3:00

Table 16

Cycle 34 Winter Cold Water		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	2:00
2	Cold Fill to High Level	2:00
3	Supply 1	1:00
4	Supply 3	1:00
5	Supply 9	1:00
6	Drain 2	2:00
7	Drain 1	2:00

Table 17

Cycle 35 Winter Hot Water		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	2:00
2	Supply 2	1:00
3	Drain 2	2:00
4	Drain 1	2:00

Table 18

Cycle 36 Extract Only		
Step	**Description**	**Min:sec**
1	Drain 1	1:00
2	Spin 1	0:30
3	Spin 4	3:00

Table 19

Cycle 52 White Linen's ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 2	2:30
5	Auxiliary Fill to Med Level	1:30
6	Hot Fill to Med Level	5:00
7	Supply 1	0:30
8	Wash 1 18/3 (32 F)	5:00
9	Supply 2	0:30
10	Wash 1 18/3 (32 F)	5:00
11	Drain 1	2:30
12	Auxiliary Fill to High Level	1:30
13	Warm Fill to High Level	5:00
14	Supply 9	1:30
15	Wash 1 18/3 (32 F)	2:00
16	Drain 2	2:30
17	Warm Fill to High Level	5:00
18	Wash 1 18/3 (32 F)	2:00
19	Drain 2	2:30
20	Warm Fill to Low Level	5:00
21	Supply 3	0:30
22	Wash 1 18/3 (32 F)	4:00
23	Drain 2	2:30
24	Spin 4	3:00

Table 20

Cycle 53 BDU's ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to Med Level	1:30
2	Hot Fill to Med Level	5:00
3	Supply 1	0:30
4	Wash 1 18/3 (32 F)	5:00
5	Drain 1	2:30
6	Auxiliary Fill to Med Level	1:30
7	Hot Fill to Med Level	5:00
8	Wash 1 18/3 (32 F)	3:00
9	Drain 1	2:30
10	Warm Fill to High Level	5:00
11	Wash 1 18/3 (32 F)	3:00
12	Drain 2	2:30
13	Warm Fill to Med Level	5:00
14	Supply 3	0:30
15	Wash 1 18/3 (32 F)	3:00
16	Drain 2	2:30
17	Spin 4	3:00

Table 21

Cycle 54 Color Linen's ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 2	2:30
5	Auxiliary Fill to Med Level	1:30
6	Hot Fill to Med Level	5:00
7	Supply 1	0:30
8	Wash 1 18/3 (32 F)	5:00
9	Drain 1	2:30
10	Auxiliary Fill to High Level	1:30
11	Warm Fill to High Level	5:00
12	Wash 1 18/3 (32 F)	2:00
13	Drain 2	2:30
14	Warm Fill to High Level	5:00
15	Wash 1 18/3 (32 F)	2:00
16	Drain 2	2:30
17	Warm Fill to Low Level	5:00
18	Supply 3	0:30
19	Wash 1 18/3 (32 F)	4:00
20	Drain 2	2:30
21	Spin 4	3:00

Table 22

Cycle 55 W/L Min Reuse ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Supply 1	0:30
7	Wash 1 18/3 (32 F)	5:00
8	Supply 2	0:30
9	Wash 1 18/3 (32 F)	5:00
10	Drain 1	2:30
11	Warm Fill to High Level	5:00
12	Supply 9	1:30
13	Wash 1 18/3 (32 F)	2:00
14	Drain 1	2:30
15	Warm Fill to High Level	5:00
16	Wash 1 18/3 (32 F)	2:00
17	Drain 1	2:30
18	Warm Fill to Low Level	5:00
19	Supply 3	0:30
20	Wash 1 18/3 (32 F)	4:00
21	Drain 2	2:30
22	Spin 4	3:00

Table 23

Cycle 56 BDU Min Reuse ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Supply 1	0:30
4	Wash 1 18/3 (32 F)	5:00
5	Drain 1	2:30
6	Hot Fill to Med Level	5:00
7	Wash 1 18/3 (32 F)	3:00
8	Drain 1	2:30
9	Warm Fill to High Level	5:00
10	Wash 1 18/3 (32 F)	3:00
11	Drain 1	2:30
12	Warm Fill to Low Level	5:00
13	Supply 3	0:30
14	Wash 1 18/3 (32 F)	3:00
15	Drain 2	2:30
16	Spin 4	3:00

Table 24

Cycle 57 C/L Min Reuse ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Hot Fill to High Level	5:00
3	Wash 1 18/3 (32 F)	2:00
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Supply 1	0:30
7	Wash 1 18/3 (32 F)	5:00
8	Drain 1	2:30
9	Warm Fill to High Level	5:00
10	Wash 1 18/3 (32 F)	2:00
11	Drain 1	2:30
12	Warm Fill to High Level	5:00
13	Wash 1 18/3 (32 F)	2:00
14	Drain 1	2:30
15	Warm Fill to Low Level	5:00
16	Supply 3	0:30
17	Wash 1 18/3 (32 F)	4:00
18	Drain 2	2:30
19	Spin 4	3:00

Table 25

Cycle 58 W/L No Reuse ND		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Wash 1 18/3 (32 F)	2:00
3	Drain 1	2:30
4	Hot Fill to Med Level	5:00
5	Supply 1	0:30
6	Wash 1 18/3 (32 F)	5:00
7	Supply 2	0:30
8	Wash 1 18/3 (32 F)	5:00
9	Drain 1	2:30
10	Warm Fill to High Level	5:00
11	Supply 9	1:30
12	Wash 1 18/3 (32 F)	2:00
13	Drain 1	2:30
14	Warm Fill to High Level	5:00
15	Wash 1 18/3 (32 F)	2:00
16	Drain 1	2:30
17	Warm Fill to Low Level	5:00
18	Supply 3	0:30
19	Wash 1 18/3 (32 F)	4:00
20	Drain 1	2:30
21	Spin 4	3:00

Table 26

Cycle 59 BDUs No Reuse ND		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Supply 1	0:30
3	Wash 1 18/3 (32 F)	5:00
4	Drain 1	2:30
5	Hot Fill to Med Level	5:00
6	Wash 1 18/3 (32 F)	3:00
7	Drain 1	2:30
8	Warm Fill to High Level	5:00
9	Wash 1 18/3 (32 F)	3:00
10	Drain 1	2:30
11	Warm Fill to Low Level	5:00
12	Supply 3	0:30
13	Wash 1 18/3 (32 F)	3:00
14	Drain 1	2:30
15	Spin 4	3:00

Table 27

Cycle 60 C/L No Reuse ND		
Step	**Description**	**Min:sec**
1	Hot Fill to High Level	5:00
2	Wash 1 18/3 (32 F)	2:00
3	Drain 1	2:30
4	Hot Fill to Med Level	5:00
5	Supply 1	0:30
6	Wash 1 18/3 (32 F)	5:00
7	Drain 1	2:30
8	Warm Fill to High Level	5:00
9	Wash 1 18/3 (32 F)	2:00
10	Drain 1	2:30
11	Warm Fill to High Level	5:00
12	Wash 1 18/3 (32 F)	2:00
13	Drain 1	2:30
14	Warm Fill to Low Level	5:00
15	Supply 3	0:30
16	Wash 1 18/3 (32 F)	4:00
17	Drain 1	2:30
18	Spin 4	3:00

Table 28

Cycle 61 Bag Filter ND		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	1:30
2	Warm Fill to High Level	5:00
3	Supply 1	0:30
4	Wash 1 18/3 (32 F)	5:00
5	Drain 1	2:30
6	Warm Fill to High Level	5:00
7	Wash 1 18/3 (32 F)	5:00
8	Drain 1	2:30
9	Spin 1	0:30

Table 29

Cycle 96 Supply Test		
Step	**Description**	**Min:sec**
1	Supply 1	1:00
2	Supply 2	1:00
3	Supply 3	1:00
4	Supply 4	1:00
5	Supply 5	1:00
6	Supply 6	1:00
7	Supply 7	1:00
8	Supply 8	1:00
9	Supply 9	1:00
10	Supply 1, 4	1:00
11	Supply 2, 5	1:00
12	Supply 3, 6	1:00
13	Supply 4, 5	1:00
14	Cold Fill to Low Level	1:00
15	Drain 1	1:00
16	Cold Fill to Low Level	1:00
17	Drain 1	1:00

Table 30

Cycle 97 Drain Test		
Step	**Description**	**Min:sec**
1	Wash 3, no agitation (32 F)	1:00
2	Drain 2	1:00
3	Auxiliary Fill to Low Level	1:00

Table 31

Cycle 98 Washer Test		
Step	**Description**	**Min:sec**
1	Cold Fill to Low Level	5:00
2	Supply 1	0:45
3	Supply 2	0:10
4	Supply 3	0:10
5	Supply 4	0:10
6	Supply 5	0:10
7	Supply 6	0:10
8	Supply 7	0:10
9	Supply 8	0:10
10	Supply 9	0:10
11	Hot Fill to Med Level	5:00
12	Warm Fill to High Level	5:00
13	Wash 1, no reverse (32 F)	0:30
14	Wash 2 3/27 (32 F)	0:30
15	Wash 3, no agitation (32 F)	0:30
16	Wash 4 10/20 (32 F)	0:30
17	Drain 1	1:00
18	Cold Fill to Overflow	8:00
19	Soak (32 F)	0h02
20	Drain 2	1:00
21	Auxiliary Fill to Low Level	0:15
22	Cold Fill to Med Level	5:00
23	Wash 1, no reverse (32 F)	0:40
24	Drain 2	1:00
25	Spin 1	2:20
26	Spin 2	2:00
27	Spin 3	2:00

Table 31

Cycle 98 Washer Test		
Step	**Description**	**Min:sec**
28	Spin 4	2:00

Table 32

Cycle 99 Reuse Test		
Step	**Description**	**Min:sec**
1	Auxiliary Fill to High Level	2:00
2	Drain 2	2:30
3	Auxiliary Fill to High Level	2:00
4	Wash 3, no agitation (32 F)	3:00
5	Drain 2	2:00
6	Auxiliary Fill to High Level	2:00
7	Wash 3, no agitation (32 F)	3:00
8	Drain 2	2:00
9	Auxiliary Fill to High Level	2:00
10	Wash 3, no agitation (32 F)	3:00
11	Drain 2	2:00

Machine

Type : _X55PV
Units : English
Offset : 1.5 inch
Diameter drum : 20.5 inch
Diameter tub : 23.0 inch
Depth drum : 15.5 inch
Level hysteresis : 1 inch
Temperature hysteresis : 4 F
Heat : 0 kW

In & Out

Drain1 : Valve
Drain2 : Pump
Inlet options : Reuse

Behaviour

Advance : yes
Chemical hold : no
Spin retries : 5
Show temp : yes

Inverter Drive Error Codes

Table 33

Operation Panel Indication	Name	Description and NOTES	Check point	Corrective action
E.OC 1	Overcurrent shut-off during acceleration	When the inverter output current reaches or exceeds approximately 200% of the rated current during acceleration, the protective circuit is activated to stop the inverter output.	• Check the motor cable insulation and connection for output short-circuit/ ground fault.	Repair the wiring.
E.OC 2	Overcurrent shut-off during constant speed	When the inverter output current reaches or exceeds approximately 200% of the rated current during constant speed, the protective circuit is activated to stop the inverter output.	• Check the motor cable insulation and connection for output short-circuit/ ground fault.	Repair the wiring.
E.OC 3	Overcurrent shut-off during deceleration	When the inverter output current reaches or exceeds approximately 200% of the rated current during deceleration (other than acceleration or constant speed), the protective circuit is activated to stop the inverter output.	a.Check for sudden speed reduction. b.Check the motor cable insulation and connection for output short-circuit/ ground fault.	a.Contact Alliance Laundry Systems' Customer Service department. b.Repair the wiring.
E.Ou 1	Regenerative overvoltage shut-off during acceleration	If regenerative energy causes the inverter's internal main circuit DC voltage to reach or exceed the specified value, the protective circuit is activated to stop the inverter output. It may also be activated by a surge voltage generated in the power supply system	Check to make sure the machine is loaded properly and that the load is balanced.	Load the machine properly to distribute the load evenly.
E.Ou 2	Regenerative overvoltage shut-off during constant speed	If regenerative energy causes the inverter's internal main circuit DC voltage to reach or exceed the specified value, the protective circuit is activated to stop the inverter output. It may also be activated by a surge voltage generated in the power supply system.	Check to make sure the machine is loaded properly and that the load is balanced.	Load the machine properly to distribute the load evenly.
E.Ou 3	Regenerative overvoltage shut-off during deceleration or stop	If regenerative energy causes the inverter's internal main circuit DC voltage to reach or exceed the specifed value, the protective circuit is activated to stop the inverter output. It may also be activated by a surge voltage generated in the power supply system.	Check to make sure the machine is loaded properly and that the load is balanced.	Load the machine properly to distribute the load evenly.

Inverter Drive Error Codes

Table 33

Operation Panel Indication	Name	Description and NOTES	Check point	Corrective action
E.OHM	Motor overload shut-off (electronic overcurrent protection)	The electronic overcurrent protection in the inverter detects motor overheat due to overload or reduced cooling capability due to overload or reduced cooling capability during constant-speed operation to stop the inverter output. When a multi-pole motor or two or more motors are run, provide a thermal relay in the output side of the inverter.	Verify that the AC drive's parameters are correct.	Contact Alliance Laundry Systems' Customer Service department.
E.OHT	Inverter overload shut-off (electronic overcurrent protection)	If a current of more than 150% of the rated output current flows and overcurrent shut-off does not occur (200% or less) inverse-time characteristics cause the electronic overcurrent protection to be activated to stop the inverter output in order to protect the output transistors. Note: Resetting the inverter initializes the internal heat integrating data of the electronic overcurrent protection.	Verify that the AC drive's parameters are correct.	Contact Alliance Laundry Systems' Customer Service department.
E.FIN	Fin overheat	If the cooling fin overheats, the overheat sensor is actuated to stop the inverter output.	• Check for too high ambient temperature. • Check for cooling fin clogging	Verify that the AC drive's parameters are correct. Contact Alliance Laundry Systems' Customer Service department.
E. bE	Brake transistor alarm detection	Internal Circuit Error		Contact Alliance Laundry Systems' Customer Service department.
E. GF	Output side ground fault overcurrent protection	This function stops the inverter output if a ground fault overcurrent flows due to a ground fault which occurred in the inverter's output (load) side. Use Pr. 249 "ground fault detection at start" to set whether the protective function is to be activated or not. (In the 400V class, the protective function is always active.)	Check the motor cable insulation and connection for output short-circuit/ ground fault.	Repair the wiring.

Table 33

Operation Panel Indication	Name	Description and NOTES	Check point	Corrective action
E.OHT	External thermal relay operation	If the external thermal relay designed for motor overheat protection or the internally mounted temperature relay in the motor switches on (contacts open), the inverter output is stopped. If the relay contacts are reset automatically, the inverter will not restart unless it is reset.	Check for motor overheating. Check to make sure the machine is loaded properly and that the load is balanced.	Load the machine properly to distribute the load evenly.
E.OLT	Stall prevention	The running frequency has fallen to 0 with stall prevention activated.	Check the motor for a “locked rotor” condition.	Verify that the AC drive’s parameters are correct. Contact Alliance Laundry Systems’ Customer Service department.
E.LF	Output phase failure protection	This function stops the inverter output if one of the three phases (U, V, W) on the inverter’s output side (load side) results in open phase.	Check the wiring. Check the motor for a fault.	Tighten the wire connections. Replace the connectors as needed.
Fn	Fan fault	For the inverter which contains a cooling fan, FN appears on the operation panel when the cooling fan fails.	Check the cooling fan’s operation.	Replace the fan as needed.

Inverter Drive Error Codes

Table 33

Operation Panel Indication	Name	Description and NOTES	Check point	Corrective action
OL	Stall prevention (overcurrent)	**During acceleration–**If a current of more than 150% of the rated inverter current flows in the motor this function stops the increase in frequency until the overload current reduces to prevent the inverter from resulting in overcurrent shut-off. When the overload current has reduces below 150%, this function increases the frequency again. **During constant-speed operation–**If a current of more than 150%, this function lowers the frequency again. When the overload current has reduces below 150%, this function increases the frequency again. **During deceleration–**If a current of more than 150% of the rated inverter current flows in the motor, this function stops the decrease in frequency until the overload current reduces to prevent the inverter from resulting in overcurrent shut-off. When the overload current has reduced below 150%, this function decreases the frequency again.	a.Check to make sure the machine is loaded properly and that the load is balanced. b.Verify that the AC drive's parameters are correct.	a.Load the machine properly to distribute the load evenly. b.Contact Alliance Laundry Systems' Customer Service department.
oL	Stall prevention (overvoltage)	During deceleration-If the regenerative energy of the motor exceeds the brake capability, this function stops the decrease in frequency to prevent overvoltage shutoff. As soon as the regenerative energy has reduced, deceleration resumes.	Check to make sure the machine is loaded properly and that the load is balanced.	Load the machine properly to distribute the load evenly.
PS	PU stop	A stop made by pressing the STOP RESET key of the PU has been set in Pr. 75 "PU stop selection"	Check for a stop made by pressing the STOP RESET key of the operation panel during external operation.	Perform operation correctly.

Table 33

Operation Panel Indication	Name	Description and NOTES	Check point	Corrective action
Err.		This alarm appears if: • The RES signal is on; • You attempted to set any parameter value in the external operation mode; • You attempted to change the operation mode during operation; • You attempted to set any parameter value outside its setting range. • You attempted to set any parameter value during operation (while signal STF or STR is ON). • You attempted to set any parameter value while parameter write is being inhibited in Pr. 77 “parameter write inhibit selection”.		Perform operation correctly.
UU	Under Voltage	The power supply has fallen below a specified level.	This fault appears every time the machine is powered down. Check the power supply voltage.	Apply the proper voltage to the machine.