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# Programming Instructions

## Editing an Existing Cycle

There are 29 preset wash cycles programmed into the washer at the factory. Although these cycles are common industry cycles, there may be a need to tailor the cycle to meet an exact application. This can easily be done with the following instructions. Note: It is recommended when changes are made to one or more of the preset programs that the cycle number and the changes be documented for later reference. Blank cycle sheets have been provided at the end of the Preset Cycle Information section.

- 1. Turn on the power to the washer.**
- 2. Turn the Advance/Run/Program key to the Program position (Program Mode LED lights).**  
The Select Cycle LED is lit.
- 3. Select the cycle to be edited by using the SCROLL UP/SCROLL DOWN buttons.**  
The selection is made when the number displayed corresponds with the desired cycle.
- 4. Push the green ENTER button.**  
Once depressed, the first of the nine cycle segment LED's will light (top row). The cycle segments are: Flush, Pre-wash, Wash, Rinse 1, Rinse 2, Rinse 3, Rinse 4, Rinse 5 and Final Rinse/Extract. The Select Cycle LED is out.
- 5. Use the Scroll Up / Scroll Down buttons to light the cycle segment to be changed.**

The sequence of steps below is repeated for each cycle segment until all required segments are edited. The previously stored parameters will appear as each part of the segment data is reviewed.

- 6. Push the green ENTER button.**  
The Cycle Time LED lights (lower row of LED's) and the segment LED is out. The tumble time for this segment will be shown on the display. If no change is required, then continue to the next instruction. If this value requires changing, then use the SCROLL UP/SCROLL DOWN buttons to change the tumble time, in 1 minute increments, to the desired value, then continue to the next instruction. Settings range is from 0 minutes to 30 minutes, except for the Final Rinse/Extract segment, where the setting range is 1 minute to 30 minutes. REMINDER: If the tumble time is set to zero, the segment will be skipped in the wash cycle.
- 7. Push the green ENTER button. (The wash time has now been entered.)**  
The Water Temperature LED lights and the Cycle Time LED is out. The water temperature for this segment is displayed. If no change is required, then continue to the next instruction. If a change is required, then use the SCROLL UP/SCROLL DOWN buttons to change the water temperature. AHH@ is all hot water, ACC@ is all cold water, ACH@ is an even mix of hot and cold water, and AEE@ is a no water bath. Entering a temperature value of 20E-90EC will result in a heated bath, if temperature of fill water is less than programmed temperature. When the desired water temperature is selected, continue to the next instruction.
- 8. Push the green ENTER button. (The water temperature has now been entered.)**  
The Water Level LED lights and the Water Temperature LED is out. The water level for this segment is displayed. If no change is required, then continue to the next instruction. If a change is required, then use the SCROLL UP/SCROLL DOWN buttons to change the water level. ("HI" is a high water level, and "LO" is a low water level.) When the desired water level is selected, continue to the next instruction. When the No Water bath is selected, the water level has no effect. Either water level can be selected.
- 9. Push the green ENTER button. (The water level has now been entered.)**  
The Injection Source LED lights and the Water Level LED is out. The injection source for this segment is displayed. If no change is required, then continue to the next instruction. If a change is required,

then use the SCROLL UP/SCROLL DOWN buttons to change the injection source. See the Injection Source table for proper selection. If zero is selected, then no injection source is active for this segment. When the desired injection source is selected, continue to the next instruction. When the No Water bath is selected, injection signals are prohibited by the electronic controller. The programmed injection source value is ignored.

**10. Push the green ENTER button. (The injection source has now been entered.)**

The Spin Time LED lights and the Injection Source LED is out. The spin time for this segment is displayed. If no change is required, then continue to the next instruction. If this value requires changing, then use the SCROLL UP/SCROLL DOWN buttons to change the spin time in 1 minute increments to the desired value, then continue to the next instruction. Settings range is from 0 minutes to 10 minutes, except for the Final Rinse/Extract segment where the setting range is 1 minute to 10 minutes. REMINDER: If the spin time is set to zero, there will be no spin at the end of the bath.

**11. Push the green ENTER button. (The extract time has now been entered.)**

Once depressed, the Spin Time LED is out and the editing of one segment is complete. The next sequential cycle segment LED lights, unless the segment edited above was the Final Rinse/Extract segment. If the Final Rinse/Extract segment is edited, after step eleven, the cycle programming is complete, and the machine will return to the Programming Mode awaiting a cycle select (Step 3).

**To exit the programming mode, depress the red STOP button when one of the nine cycle segment LED lights are lit. The programming changes made prior to the program exit are retained and the cycle is updated.**

## Cycle Times

	<b>Cycles 1-30</b>	<b>Chemical Signal</b>	<b>Water Level</b>	<b>Water Temp</b>
Flush	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Prewash	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Wash	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Rinse 1	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Rinse 2	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Rinse 3	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Rinse 4	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Int. Spin	0-10 min.			
Rinse 5	0-30 min.	1-6	High or low	Hot, Cold or Empty
Drain	40 sec.			
Extract	1-10 min.			
Total *	1-320 min.			

\* Cycle times are approximate and do not include fill time from empty to low level.

\* Fill time from low to high level is included as computer operates during this period.

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# 30 Preset Wash Cycles

All wash cycles can be reprogrammed (see Section 2)

## Application      Cycle #      Description

### Shirt/Laundry

- 1              Shirts (No Starch)
- 2              Shirts (Starch)

### Hotel/Motel

- 3              White Sheets
- 4              White Pillowcases
- 5              White Towels, Bath Mats, Wash Cloths
- 6              Colored Sheets and Towels
- 7              Delicate Wash
- 8              Housekeeping Rags and Mops
- 9              Housekeeping Uniforms
- 10             Stain Treatment
- 11             Reclaim Part 1
- 12             Reclaim Part 2

### Health Care

- 13             Sheets and Pillowcases
- 14             Towels
- 15             Diapers and Pads
- 16             Personals
- 17             Delicate

### Food & Beverage

- 18             White (Cotton/Blend) Table Linen
- 19             Colored (Cotton/Blend) Table Linen
- 20             White 100% Polyester Table Linen
- 21             Colored 100% Polyester Table Linen
- 22             White Chef Coats
- 23             Kitchen and Maintenance Rags
- 24             White/Colored (Cotton/Blend) Table Linen
- 25             White/Colored 100% Polyester Table Linen
- 26             White Chef Coats
- 27             Kitchen and Maintenance Rags

### Other

- 28             Oxygen Bleach - Terry
- 29             Oxygen Bleach - Terry (No iron)

### Test

- 30             Test Injection Signals and Pressure Switch
- 31             **Test Diagnostic**

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## CYCLE 1 Shirt/Laundry Shirts (No Starch)

Cycle Segment	Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	12	HH	LO	Detergent/Bleach	1
Rinse 1	2	CH	HI		
Rinse 2	2	CH	HI		
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO		3

## CYCLE 2 Shirt/Laundry Shirts (Starch)

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	12	HH	LO	Detergent/Bleach	
Rinse 1	2	CH	HI		
Rinse 2	2	CH	HI		
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	7	CH	LO	Starch	3

## CYCLE 3 Hotel/Motel White Sheets

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash	7	HH	LO	Detergent	
Wash	7	HH	LO	Bleach	
Rinse 1	2	CH	HI		1
Rinse 2	2	CH	HI		
Rinse 3					
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

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## CYCLE 4 Hotel/Motel White Pillowcases

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	7	HH	LO	Detergent	
Pre-wash	1	HH	HI		
Wash	7	HH	LO	Bleach	
Rinse 1	2	CH	HI		1
Rinse 2	2	CH	HI		
Rinse 3					
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

## CYCLE 5 Hotel/Motel White Towels

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	7	HH	LO	Detergent	
Pre-wash	1	HH	HI		
Wash	7	HH	LO	Bleach	
Rinse 1	2	CH	HI		1
Rinse 2	2	CH	HI		
Rinse 3					
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	5

## CYCLE 6 Hotel/Motel Color Sheets

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	7	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

## CYCLE 7 Hotel/Motel Delicate

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	8	CH	HI	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

## CYCLE 8 Hotel/Motel Rags and Mops

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	2	CH	HI		
Rinse 1	2	CH	HI		
Rinse 2	7	HH	LO	Detergent	
Rinse 3	2	HH	HI		
Rinse 4	7	HH	LO	Bleach	
Rinse 5	2	CH	HI		1
Final	2	CH	HI		5

## CYCLE 9 Hotel/Motel Uniforms

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	7	HH	LO	Detergent	
Rinse 1	7	HH	LO	Bleach	
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

## CYCLE 10 Hotel/Motel Stain Treatment - Chlorine Bleach

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	30	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	HH	HI		
Rinse 3	2	CH	HI		1
Rinse 4					
Rinse 5					
Final	2	CH	HI		4

## CYCLE 11 Hotel/Motel Reclaim (Part 1)

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash					
Wash	20	HH	LO	Manual	
Rinse 1	3	HH	HI		
Rinse 2					
Rinse 3					
Rinse 4					
Rinse 5					
Final	3	HH	HI		1

## CYCLE 12 - Hotel/Motel / Reclaim (Part 2)

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush					
Pre-wash	3	HH	HI		
Wash	20	HH	LO	Manual	
Rinse 1	3	HH	HI		
Rinse 2	3	HH	HI		
Rinse 3	10	HH	LO	Bleach	
Rinse 4	3	HH	HI		1
Rinse 5					
Final	3	CH	HI		4

## CYCLE 13 - Health Care / Sheets and Pillowcases

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	7	HH	LO	Detergent	
Rinse 1	7	HH	LO	Bleach	
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

## CYCLE 14 - Health Care / Towels

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	7	HH	LO	Detergent	
Rinse 1	1	HH	HI		
Rinse 2	7	HH	LO	Bleach	
Rinse 3	2	CH	HI		1
Rinse 4	2	CH	HI		
Rinse 5					
Final	4	CH	LO	Sour/Soft	5

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**CYCLE 15 Health Care / Diapers**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	2	CH	HI		
Rinse 1	7	HH	LO	Detergent	
Rinse 2	2	HH	HI		
Rinse 3	7	HH	LO	Bleach	
Rinse 4	2	CH	HI		1
Rinse 5	2	CH	HI		
Final	4	CH	LO	Sour/Soft	4

**CYCLE 16 - Health Care / Personals**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash					
Wash	7	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	4

**CYCLE 17 - Health Care / Delicate**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	7	CH	HI	Detergent/Bleach	
Rinse 1	2	CH	HI		
Rinse 2	2	CH	HI		
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	HI	Sour/Soft	3

**CYCLE 18 - Food and Beverage / White Cotton Linen**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent	
Rinse 1	2	HH	HI		
Rinse 2	7	HH	LO	Bleach	
Rinse 3	2	CH	HI		1
Rinse 4	2	CH	HI		
Rinse 5					
Final	4	CH	LO	Sour/Starch	4



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## CYCLE 19 - Food and Beverage / Colored Cotton Linen

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent	
Rinse 1	7	HH	LO	Bleach	
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Starch	4

## CYCLE 20 - Food and Beverage / White 100% Polyester Linen

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent	
Rinse 1	2	HH	HI		
Rinse 2	7	HH	LO	Bleach	
Rinse 3	2	CH	HI		1
Rinse 4	2	CH	HI		
Rinse 5					
Final	4	CH	LO	Sour/Starch	4

## CYCLE 21 Food and Beverage Colored 100% Polyester Linen

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent	
Rinse 1	7	HH	LO	Bleach	
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Starch	4

## CYCLE 22 - Food and Beverage / White Chef Coats

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	5	HH	LO	Detergent	
Pre-wash	1	HH	HI		
Wash	8	HH	LO	Detergent	
Rinse 1	2	HH	HI		
Rinse 2	7	HH	LO	Bleach	
Rinse 3	2	CH	HI		1
Rinse 4	2	CH	H		
Rinse 5					
Final	4	CH	LO	Sour	4

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**CYCLE 23 - Food and Beverage / Kitchen Rags**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	5	HH	LO	Detergent	
Pre-wash	2	HH	HI		
Wash	8	HH	LO	Detergent	
Rinse 1	2	HH	HI		1
Rinse 2	7	HH	LO	Bleach	
Rinse 3	2	CH	HI		1
Rinse 4					
Rinse 5					
Final	2	CH	HI		5

**CYCLE 24-Food and Beverage/White/Colors(Cotton/Blend) Linen**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	1	HH	HI		
Rinse 2	2	HH	HI		1
Rinse 3	2	CH	HI		
Rinse 4	2	CH	HI		
Rinse 5					
Final	4	CH	LO	Sour/Starch	4

**CYCLE 25-Food and Beverage/White/Colors 100% Polyester Linen**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	2	CH	HI		
Pre-wash					
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	1	HH	HI		
Rinse 2	2	HH	LO		
Rinse 3	2	CH	HI		
Rinse 4	2	CH	HI		
Rinse 5					
Final	4	CH	LO	Sour/Starch	4

**CYCLE 26 - Food and Beverage/ White Chef Coats**

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	5	HH	LO	Detergent	
Pre-wash	1	HH	HI		
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	HI	Sour/Soft	4

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## CYCLE 27 - Food and Beverage / Kitchen Rags

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	5	HH	LO	Detergent	
Pre-wash	2	HH	HI		
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	1	HH	HI		
Rinse 2	2	HH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	2	CH	HI		5

## CYCLE 28 - Other/ Oxygen Bleach Terry

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	3

## CYCLE 29 - Other/ Oxygen Bleach Terry (No Iron)

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	3	CH	HI		
Pre-wash	2	CH	HI		
Wash	10	HH	LO	Detergent/Bleach	
Rinse 1	2	HH	HI		
Rinse 2	2	CH	HI		1
Rinse 3	2	CH	HI		
Rinse 4					
Rinse 5					
Final	4	CH	LO	Sour/Soft	5

## CYCLE 30 - Test Pressure Switch and Injection Signals

Segment	Cycle Time	Water Temp	Water Level	Inject Source	Spin Time
Flush	1	HH	LO	Detergent/Bleach	1
Pre-wash					
Wash					
Rinse 1					
Rinse 2					
Rinse 3					
Rinse 4					
Rinse 5					
Final	1	CC	HI	Sour/Starch	

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# **Section 4:**

## Trouble Shooting

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# Rapid Advance Mode

To enter the Rapid Advance mode, insert the key into the Rapid Advance/Run/Program lock and turn the key counter-clockwise (CCW). The Rapid Advance mode must be entered during the cycle. If the cycle has not yet started, press the "DOWN" button or the "UP" button to choose a cycle and then the "START" button to begin the cycle.

To advance to the next step in the cycle, push both the "UP" and "START" buttons at the same time. The display will show "Ad" (advance).

If advancing during a bath, all water valves will turn off and the drain will open until the "open drain" step is completed. The cycle will then continue to the next bath or to the spin of the current bath if the programming includes spin time.

If advancing during a chemical injection of a bath or after a chemical injection of the bath but before the low water level is reached, the injector will turn off and the hot and the cold water valves to the tub will turn on until the low water level is reached or for 30 seconds, whichever comes first. Then the drain will open and proceed to the next step after the Aopen drain@ step is completed.

If advancing before a chemical injection of the bath, the drain will open immediately and the cycle will proceed to the next step when the "open drain" step is completed.

If advancing during a spin, the tumbler will begin to decelerate immediately. However the cycle may proceed to the next bath before the tumbler comes to a complete stop. The cycle cannot be advanced further while the tumbler is decelerating.

If a temperature PCB is installed in the I/O PCB and the temperature programmed from 20 to 90 (Celsius), advancing will turn off the heater relay or steam valve immediately, if either is on, and open the drain after a three second delay. If the display shows a water temperature from 65 to 90 (may be displayed by pressing the "DOWN" and "START" buttons together), the drain will close again when the washer indicates empty and the hot and the cold water valves to the tub will turn on until the low water level is reached. The cycle will then continue to the next bath, or if programmed, to the spin of the current bath.

**To exit the Rapid Advance mode during the cycle, turn the key to Run. The cycle will continue normally.**

**Notes:**

- The cycle cannot be advanced during the open drain@ step of the bathes.
- The cycle cannot be advanced when the hot and cold water valves to the tub are on after advancing during or after a chemical injection.
- The cycle cannot be advanced again while the hot and cold water valves to the tub are on after advancing when the water temperature was 65 to 90.
- The Rapid Advance mode may only be entered after a cycle is started.
- The indicator lights will show to which segment the cycle has been advanced.
- The Rapid Advance mode cannot skip the final three tumbles of the cycle. The door lock may remain activated for a couple minutes after the cycle has been completed.
- The chemical injection signals will not turn on if the Rapid Advance mode is entered before the injection.

**To end the cycle without waiting for the time to count down, push and hold the "STOP" button for 5 seconds or more. The display will then show the cycle number and be ready to start the cycle.**

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# Diagnostic Test Cycle (#31)

There is a diagnostic test cycle to assist in both verifying correct operation and identifying functional problems. The test cycle is operated by following these steps:

1. Close the washer door
2. Turn the Run/Program Key to the Program Position. The program mode LED (bottom row right side) will light.
3. Select Test Cycle #31 by using the Up and Down Arrows on the touch pad. Read the Test Cycle number in the display.
4. Push the green Start button. All lights will be on and "00" will be in the display.
5. Push the Up Arrow to select the following steps:
6. Injection signal can not be tested for output in this cycle

When the correct step is selected for the component that is to be tested, push the Start button to operate that component. Releasing the Start button removes power to the component being tested.

**Step 1: Door Locking Solenoid** (Door Sol.# 3 red output light will be lit.(Green input #4 and #5 should be lit.)

**Step 2: Door Locking Thermoactuator** (Lock Thermo # 2 red output will be lit.)

**Step 3: Door Unlocking Thermoactuator** (Unlock Thermo # 1 red output will be lit.)

**Step 4: Close Drain Valve** (Drain Valve # 4 red output light will be lit.)

**Step 5: Cold Water Valve for the tub** (Cold Tub # 7 red output light will be lit.) The pressure switch low level setting can be tested at this point. The drain valve is closed and cold water is on for as long as the START button is pushed. When the water level reaches a low level, the water valve will turn off and no additional cold water can be added. (Green input led #13 should now be lit.)

**Step 6: Cold Water Valve for the dispenser** (Cold Dispenser # 6 red output light will be lit.) The pressure switch low level setting can also be tested with this step. (See step 5)

**Step 7: Hot Water Valve for the tub** (Hot Tub# 5 red output light will be lit.) The pressure switch high level setting can be tested at this point. The drain valve is closed and hot water on for as long as the START button is pushed. When the water level reaches a high level, the water valve will turn off and no additional hot water can be added. (Green input led # 15 should now be lit.)

**Step 8: Hot Water Valve for the dispenser** (Hot Dispenser # 8 red output light will be lit. ) The pressure switch high level setting can also be tested with this step. (See step 7)

**Step 9: Tumble clockwise** (FWD. #13 red output light will be lit)

**Step 10: Tumble counter clockwise** (REV. #14 red output light will be lit)

**Step 11: Open Drain Valve** (insures that drain valve is open before spin)

**Step 12: Intermediate Extract** (Rev.#13 and Speed1#15 red output light will be lit.)

**Step 13: High Speed Extract** (Rev.#13 and Speed 1#15 and Speed 2 #16 red output light will be lit.)

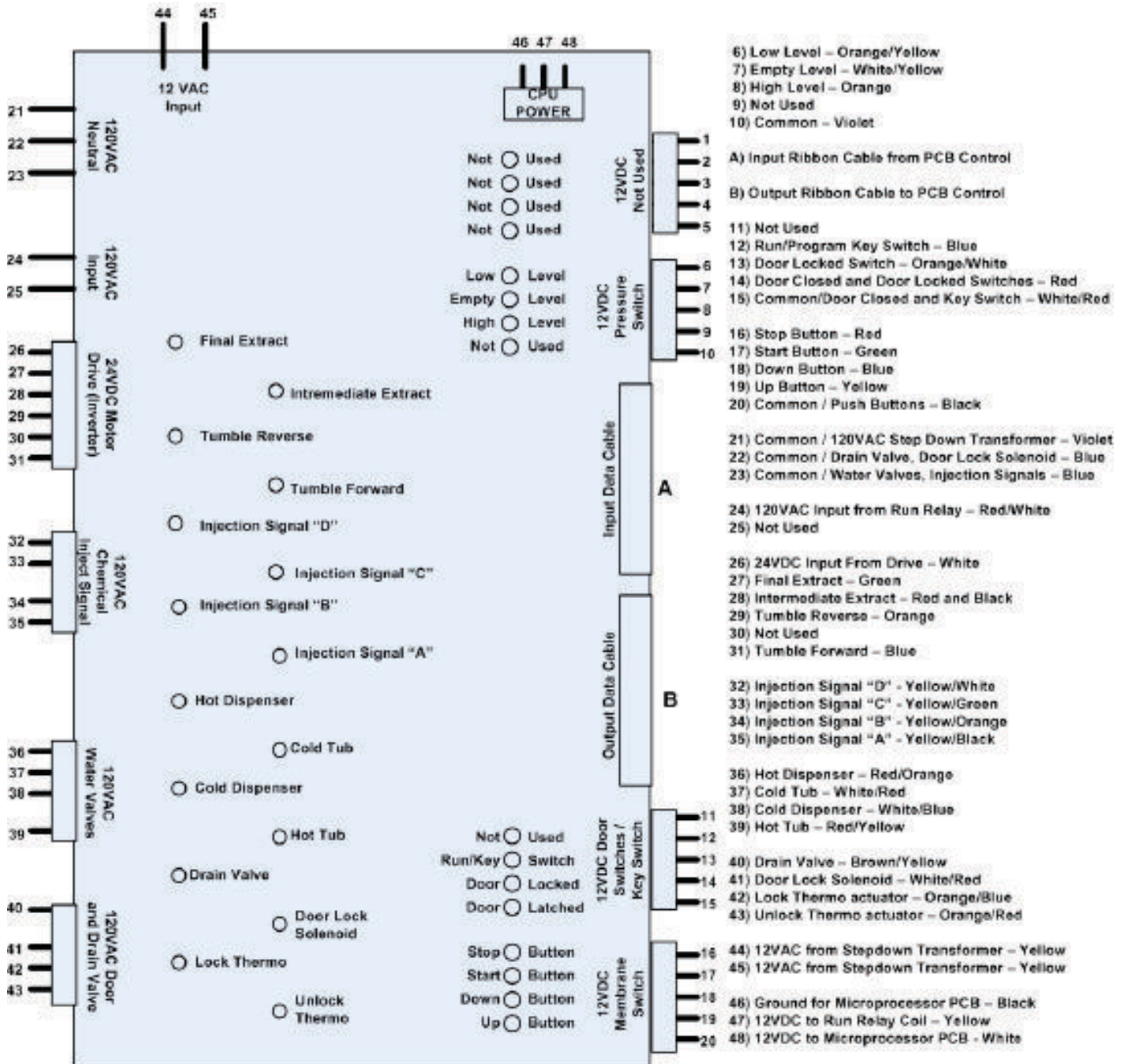
**Warning:** If the washer has had any of the 30 cycles changed from the factory settings, do not use Step 14 unless you want to reset all 30 cycles back to the factory settings.

**Step 14 will delete any changes made to all 30 cycles.**

**Step 14: Reset all 30 Cycles to Factory Settings** (must push the Start Button and hold it, then push the Up Arrow button to reset to Factory Settings)

To Exit the Test mode, push the red Stop button and turn the Run/Program Key back to the Run position.

# WCND Input/Output PCB Board



# WCND Microprocessor PCB Board

