

FM7 Firehouse Program List

November 26, 2024

This is a list of the standard wash programs provided with the control. These Programs can be modified to the user's needs by adding and deleting different cycles. Always test your new programs thoroughly before introducing them into production.

Programs

1. Outer shell wash, 35C/95F
2. Outer ensemble liners, 35C/95F
3. Blood borne wash for ensemble components, 35C/95F
4. Medium soiled ensemble components
5. Cleanout program, run after processing contaminated goods
11. Cold wash with pre-rinse, chemicals, 100G extract
12. Warm wash with pre-rinse, chemicals, 100G extract
13. Hot wash with pre-rinse, chemicals, 100G extract
14. Gentle Warm wash with pre-wash, chemicals, 100G extract
15. Gentle Cold wash with pre-wash, chemicals, 100G extract
16. Rinse and spin
30. Test program

This list contains descriptions of the standard cycles provided with the control. These cycles can be used to quickly setup effective wash programs. If you need to design your own cycles please study the manner in which these examples (particularly the spin routines and unroll99) have been structured, as it is possible to program operations that will produce undesirable results. Please note the spin cycles incorporate a balance detection routine, which includes the first several steps in each cycle. Please do not modify these steps. Always test your new programs thoroughly before introducing them into production.

Always make sure that there is enough spin deceleration time programmed after the final extract! Too little deceleration time may result in the operator being able to open the door before the machine has come to a complete stop.

Chemical Dispenser / Signal Assignments (Output Name in FM7)

- | | |
|-------------------------|-------------------------|
| 1. Cup 1 & Chem 1 _____ | 5. Cup 5 & Chem 5 _____ |
| 2. Cup 2 & Chem 2 _____ | 6. Chem 6 _____ |
| 3. Cup 3 & Chem 3 _____ | 7. Chem 7 _____ |
| 4. Cup 4 & Chem 4 _____ | 8. Chem 8 _____ |

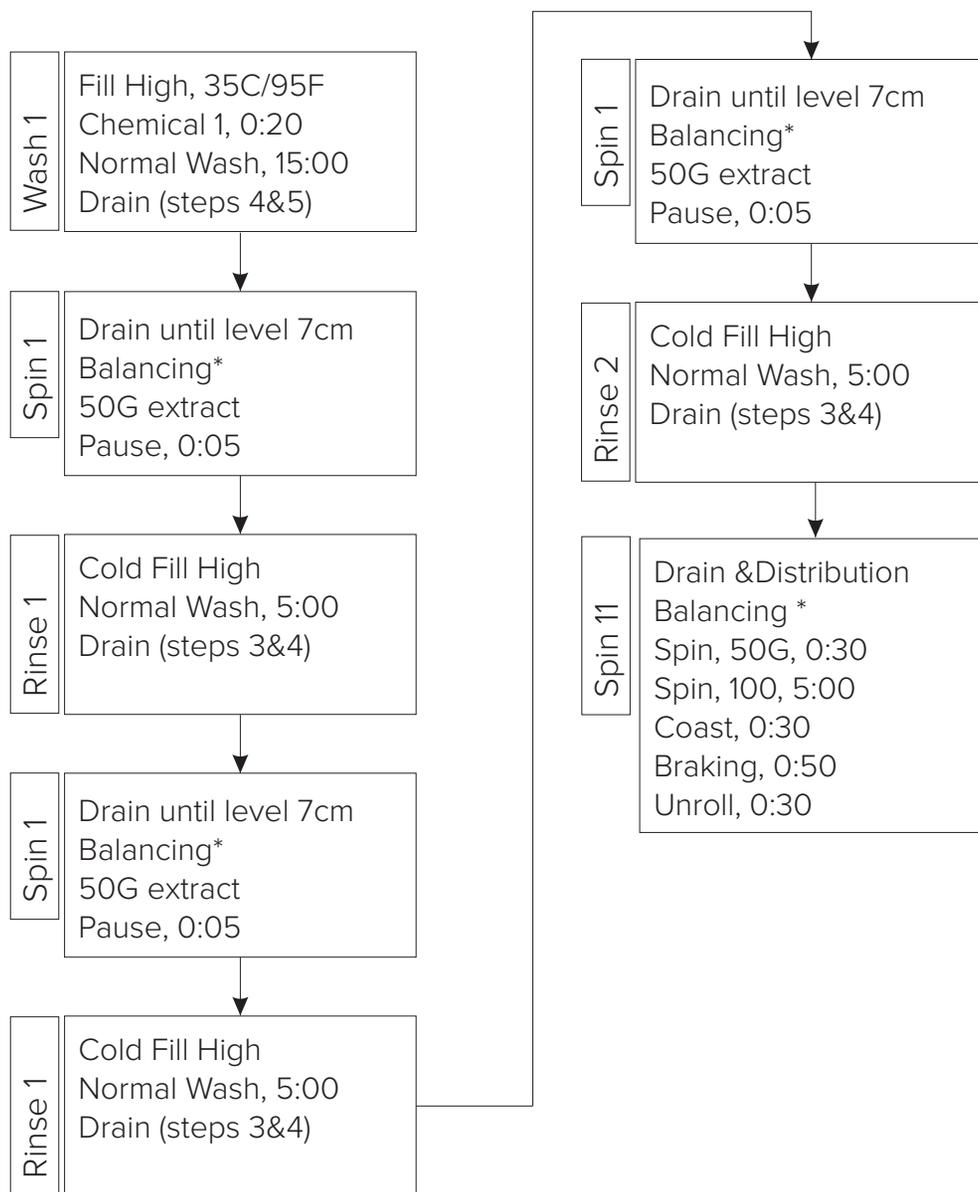
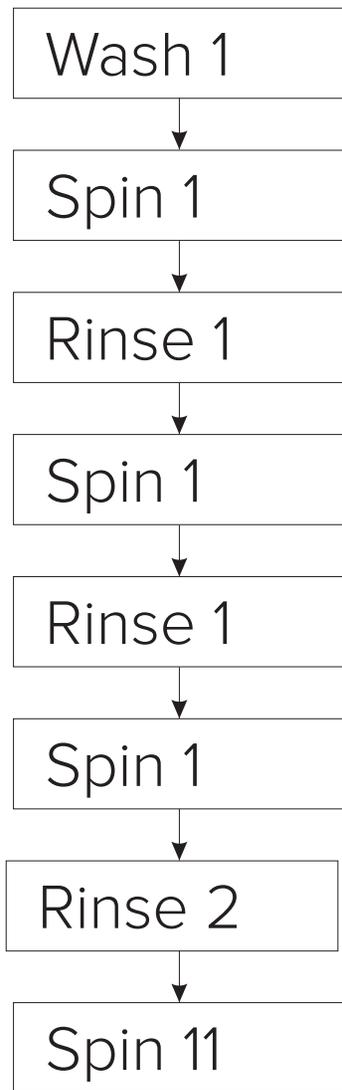
Program 1

Outer shell wash, 35C/95F

0:16 Forward

0:04 Pause

0:14 Reverse



* - Altering this step will cause the machine to fail balance detection, and not spin.

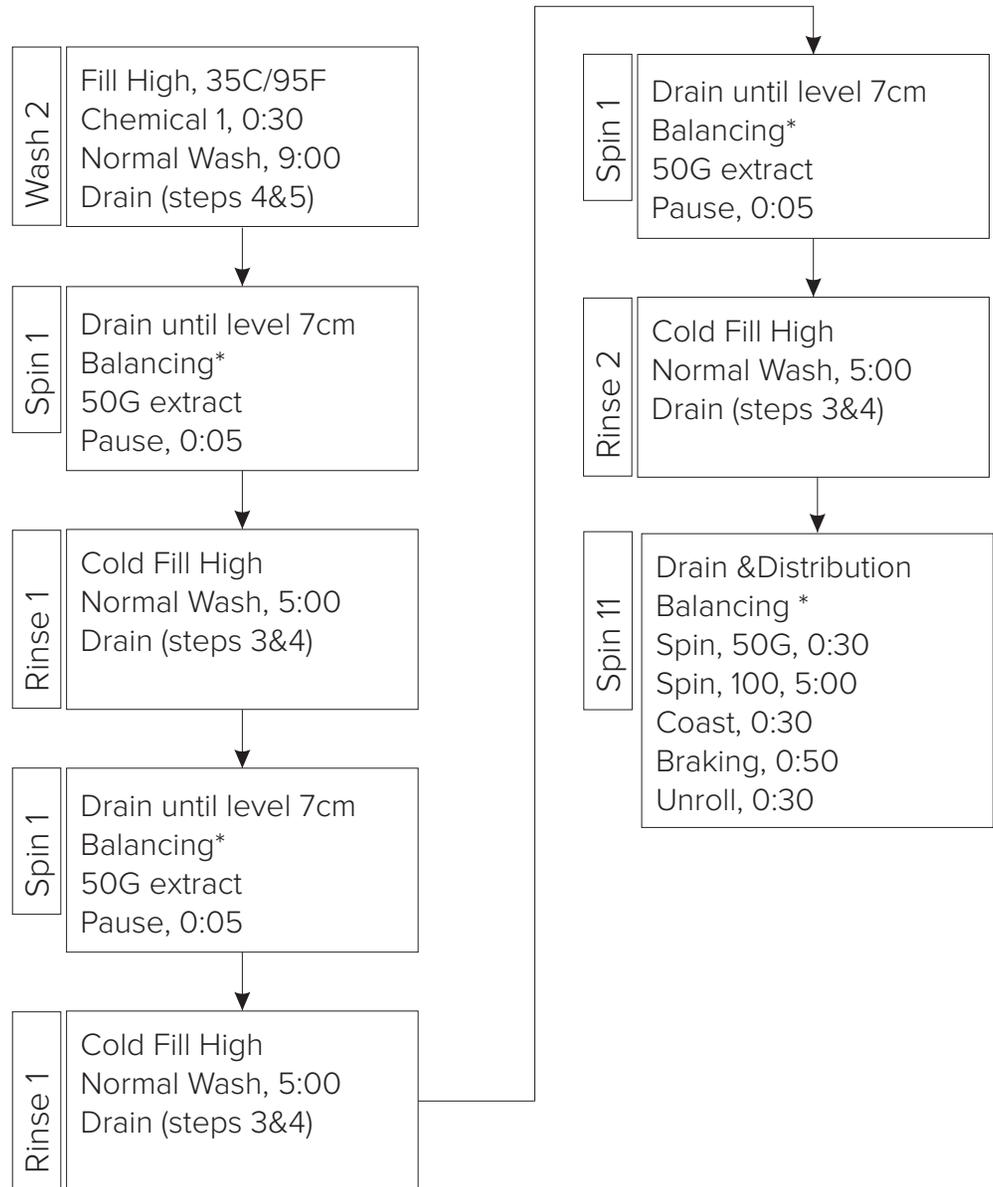
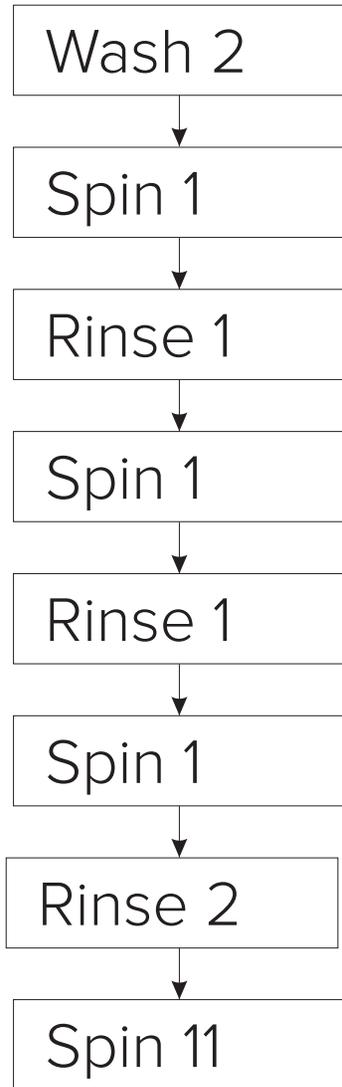
Program 2

Outer liners, 35C/95F

0:16 Forward

0:04 Pause

0:14 Reverse



* - Altering this step will cause the machine to fail balance detection, and not spin.

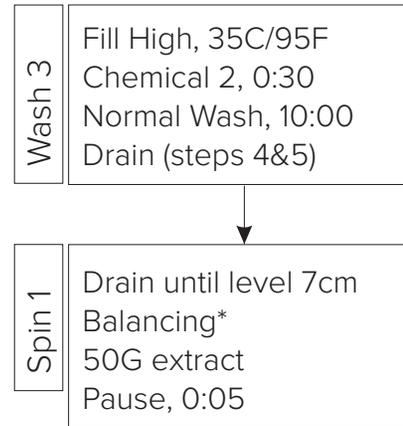
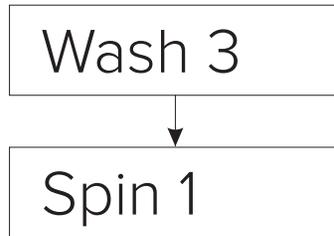
Program 3

Blood borne wash, 35C/95F

0:16 Forward

0:04 Pause

0:14 Reverse



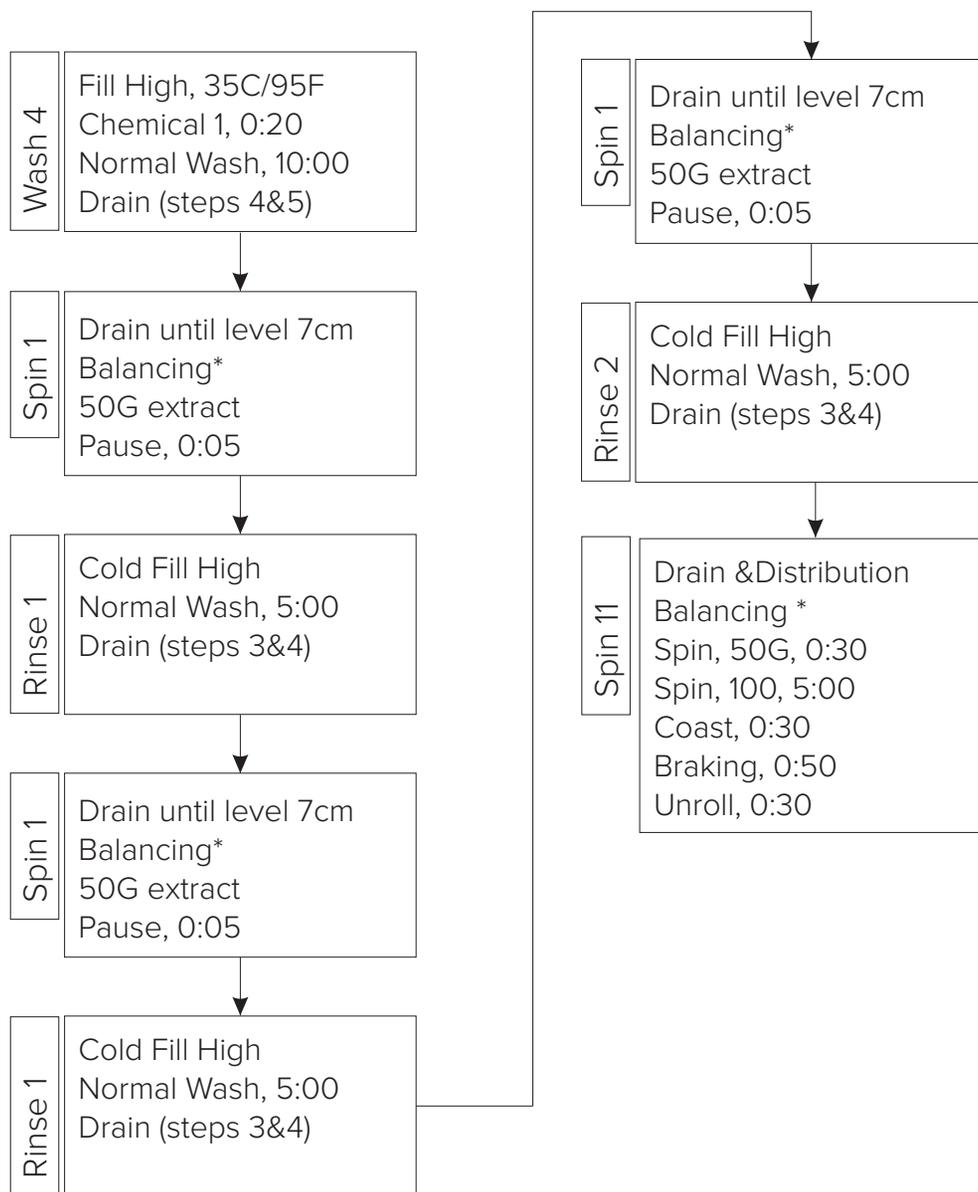
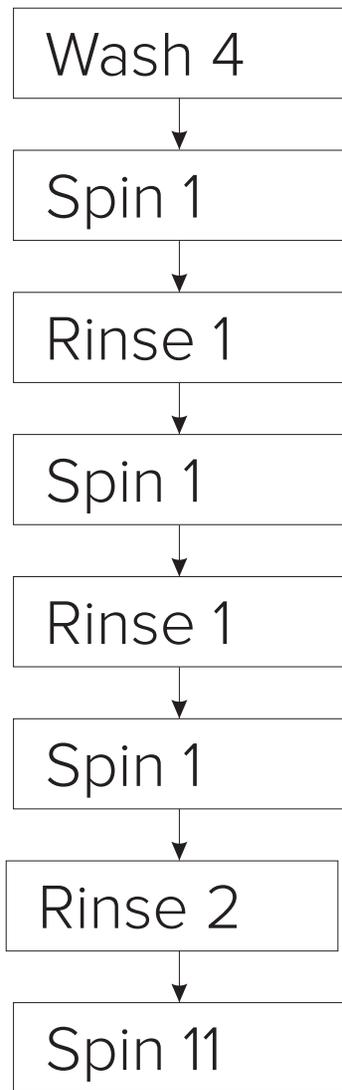
Program 4

Medium soil, 35C/95F

0:16 Forward

0:04 Pause

0:14 Reverse

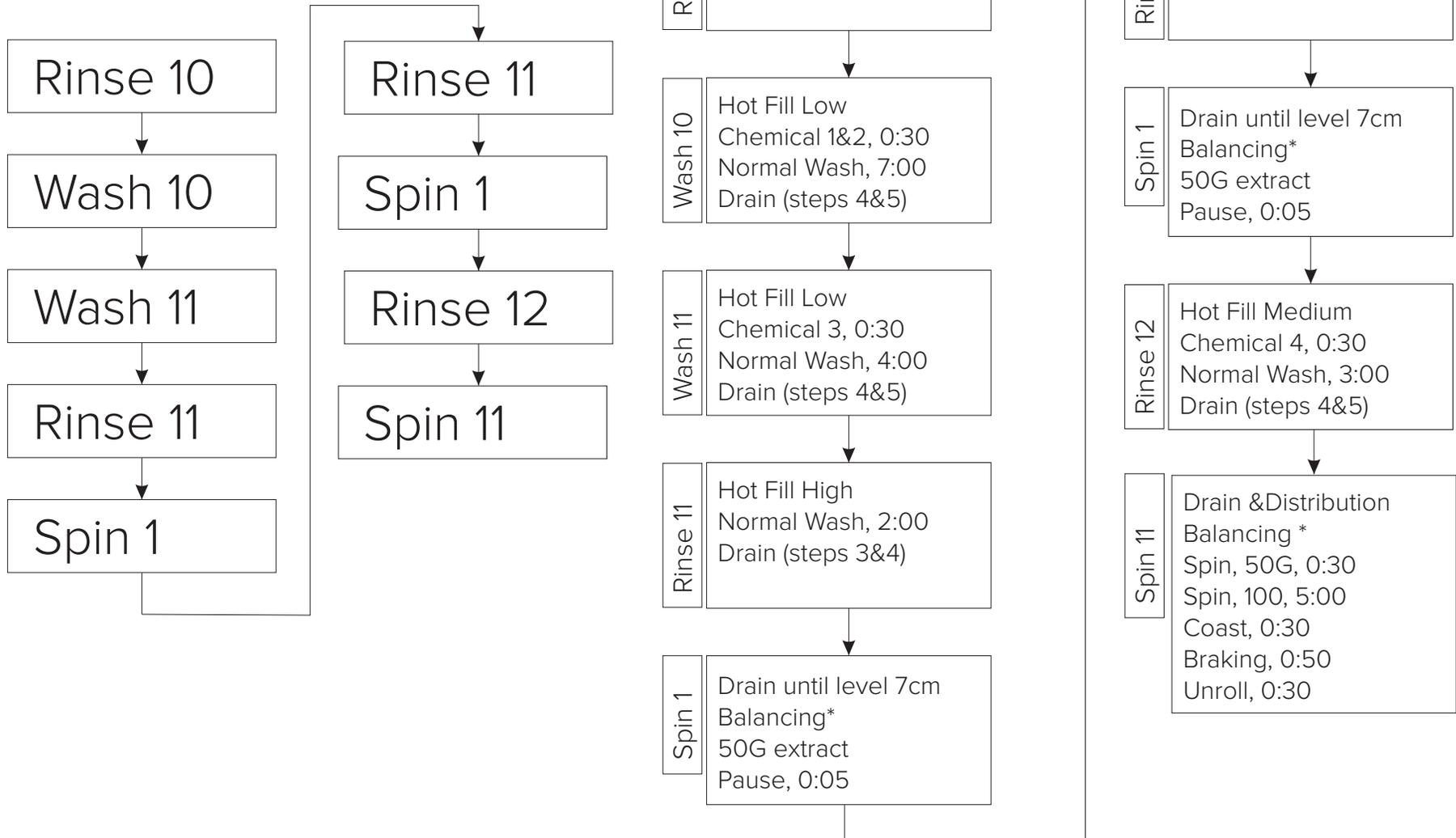


* - Altering this step will cause the machine to fail balance detection, and not spin.

Program 13

Hot wash with pre-rinse

0:16 Forward
 0:04 Pause
 0:16 Reverse

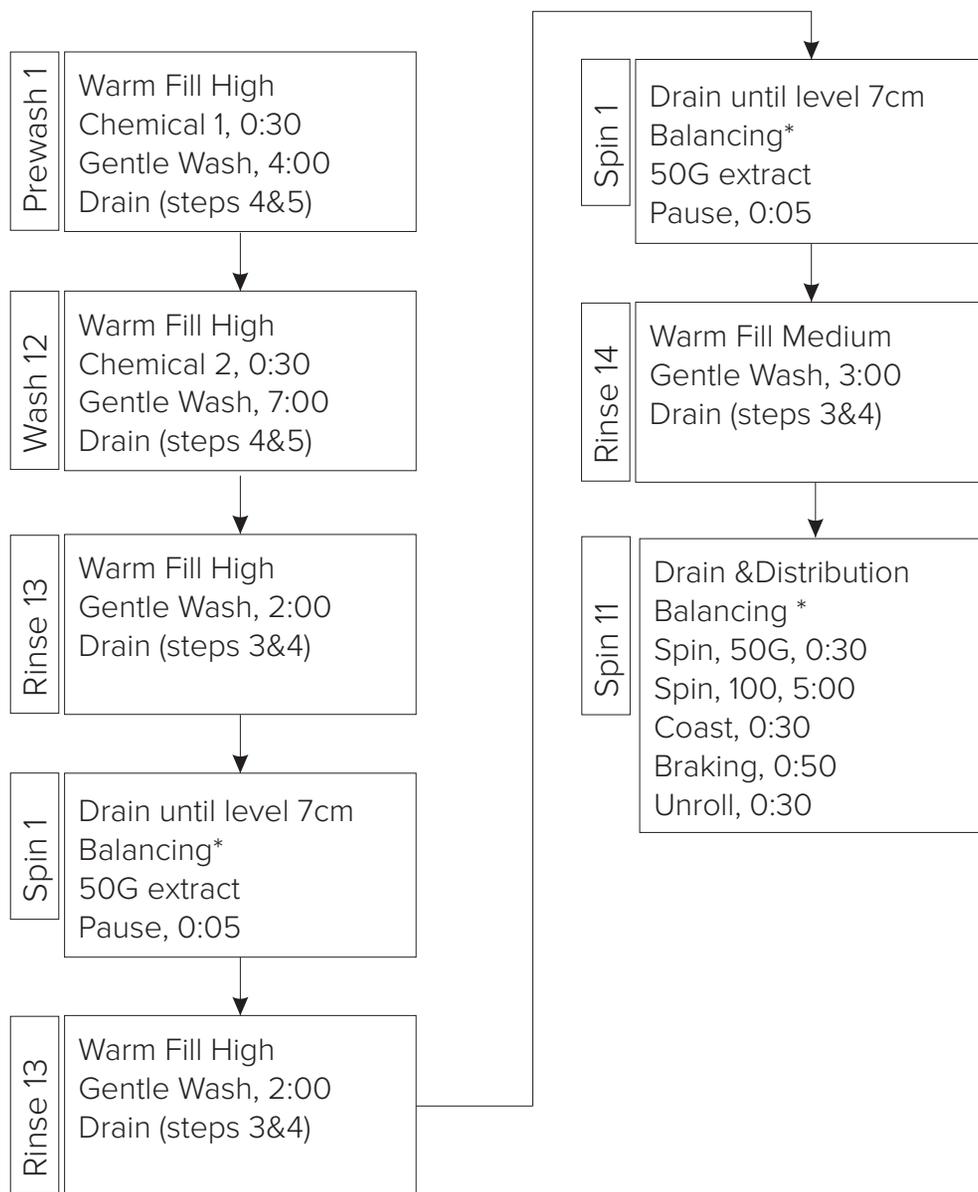
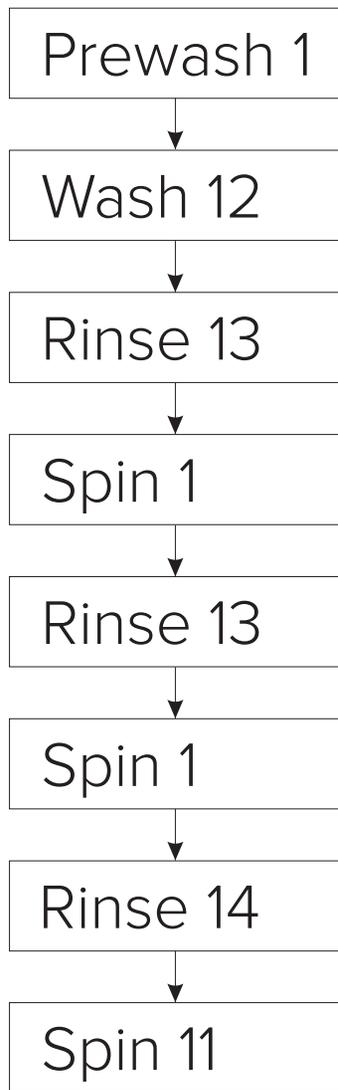


* - Altering this step will cause the machine to fail balance detection, and not spin.

Program 14

Gentle Wash Warm wash with pre-wash

0:04 Forward
0:16 Pause
0:04 Reverse



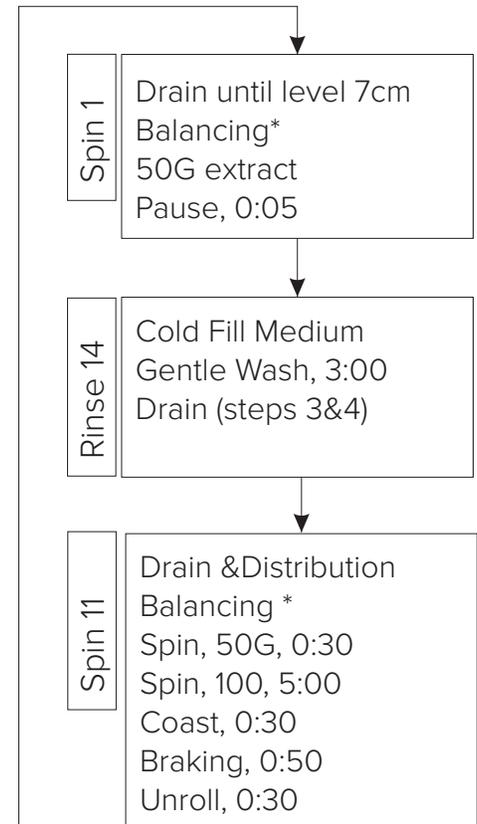
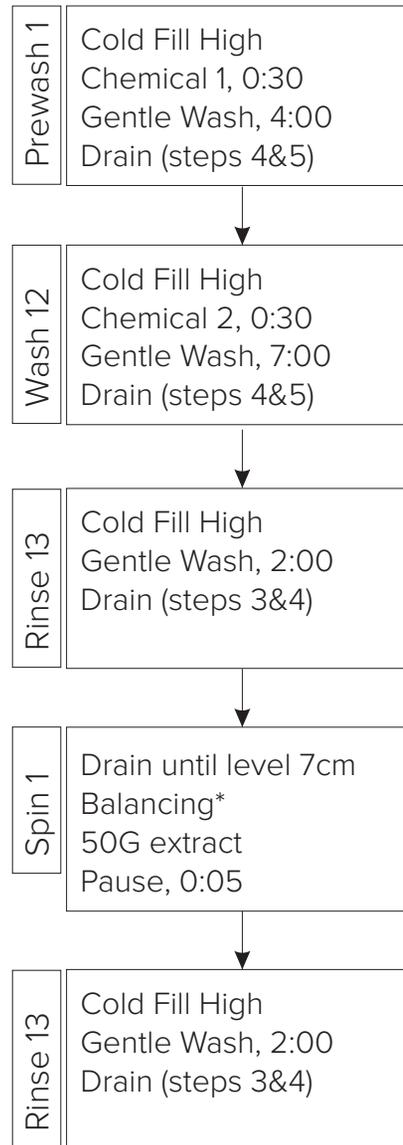
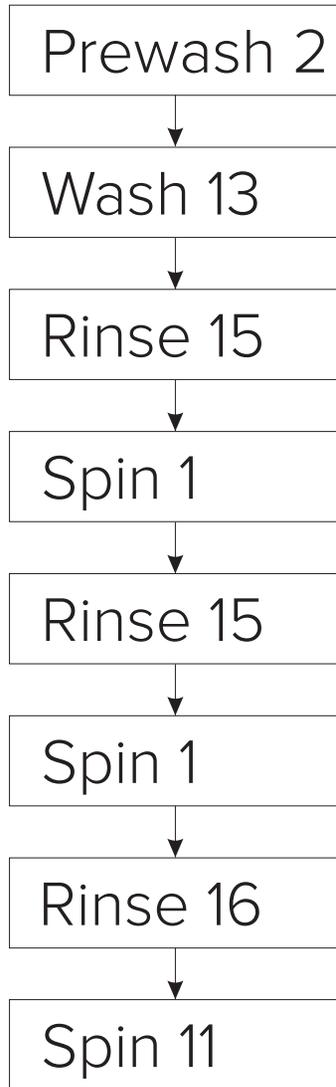
* - Altering this step will cause the machine to fail balance detection, and not spin.

Program 15

Gentle Wash Cold wash with pre-wash

Gentle Wash

0:04 Forward
0:16 Pause
0:04 Reverse

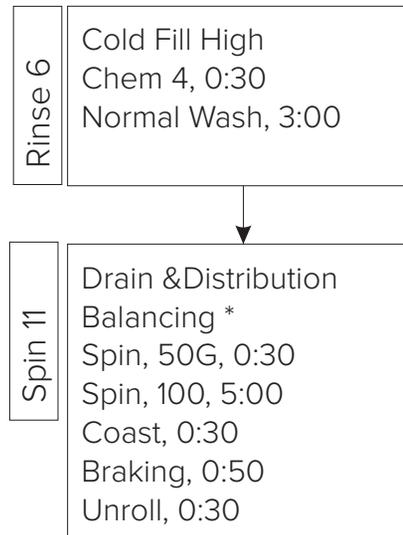
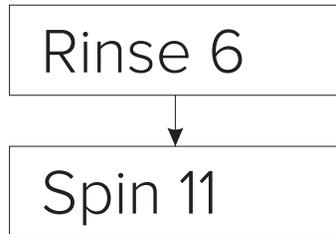


* - Altering this step will cause the machine to fail balance detection, and not spin.

Program 16

Rinse & Spin

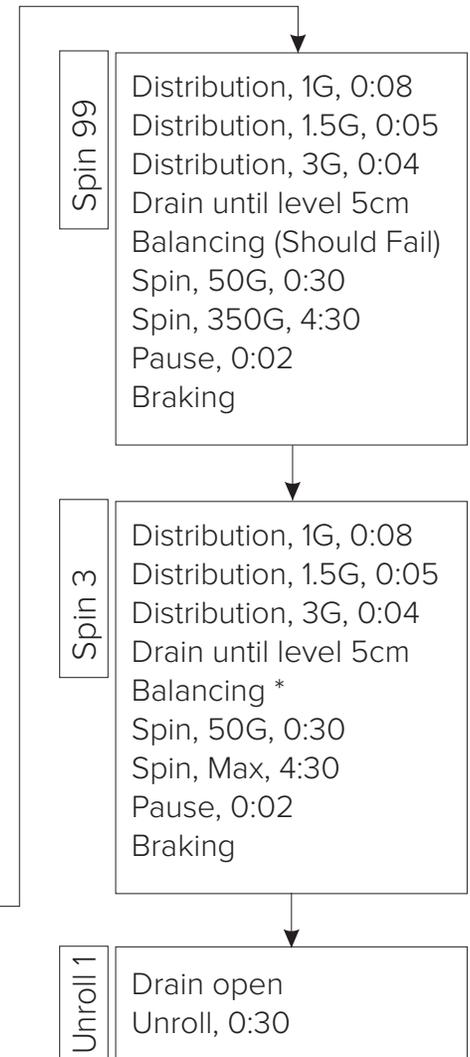
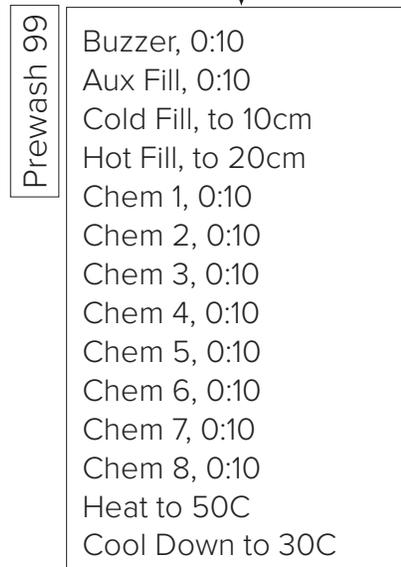
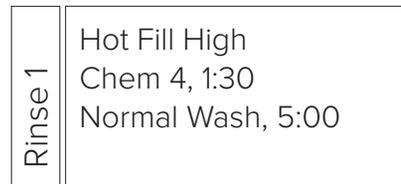
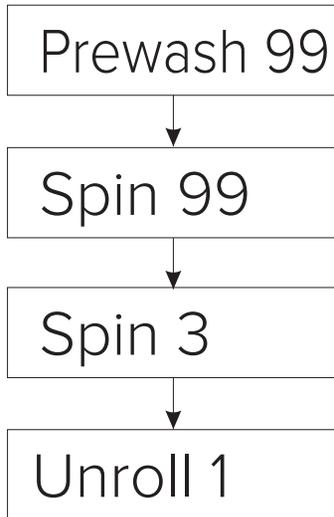
0:16 Forward
0:04 Pause
0:16 Reverse



Program 30

Test Program

0:04 Forward
0:16 Pause
0:04 Reverse



Note: The Spin 99 cycle is designed to test the balance system, and should fail to spin!

* - Altering this step will cause the machine to fail balance detection, and not spin.

Example Heat Cycle

| Function | Step | | | | |
|----------------------------|------|-------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 |
| Cool Down | | | | | |
| Bal Load | | | | | |
| Drain | | | | | |
| Cold Water | | | | | |
| Hot Water | Yes | | | Yes | |
| Heating | Yes | Yes | Yes | Yes | Yes |
| C | 90 | 90 | 90 | 90 | 90 |
| Chem 1 | | | | | |
| Chem 2 | | | Yes | | |
| Chem 3 | | | | | |
| Chem 4 | | | | | |
| Hard Water (Chem 5) | | | | | |
| Relay 16 | | | | | |
| Relay 11 (Aux Fill) | | | | | |
| Relay 12 (Injection Flush) | | | Yes | | |
| Relay 13 (Balancing) | | | | | |
| Motor | 1 | 1 | 1 | 1 | 1 |
| Speed RPM | 42 | 42 | 42 | 42 | 42 |
| Relay 17 (Chem 6) | | | | | |
| Relay 18 (Chem 7) | | | | | |
| Relay 19 (Chem 8) | | | | | |
| Relay 20 (Aux Drain) | | | | | |
| Relay 21 | | | | | |
| Relay 22 (Buzzer) | | | | | |
| Relay 23 (Cold Spray) | | | | | |
| Relay 24 (Hot Spray) | | | | | |
| End Step | | | | | |
| Level cm | 24 | | | 24 | |
| Temp C | | 90 | | | |
| WDT m:s | 9:00 | 30:00 | | 5:00 | |
| Time m:s | | | 1:00 | | 7:00 |

Any cycle can be converted to a heating cycle by inserting a step after the fill, and setting the end step condition to a temperature (See Step 2 below).

Step 1 - Fill to a water level with hot water. Heat is on, and will engage when a minimum water level is met. Watchdog timer of 9:00 allows time to fill before an alarm is generated. Step 1 ends when the water level is reached.

Step 2 - Heat output is on. Watchdog timer of 30:00 allows time to heat to the required temperature before an alarm is generated. Step 3 ends when the target temperature is reached.

Step 3 - Heat output is on, Chemical 2 output is on, Relay 12 is on. Step 3 ends when a time of 1:00 elapses.

Step 4 - Top off step, same outputs as step 1.

Step 5 - Heat output is on in order to regulate temperature during the agitation phase. Step 5 and the entire cycle is complete when a time of 7:00 elapses.



Much more information is available on our website:
www.bandctech.com

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