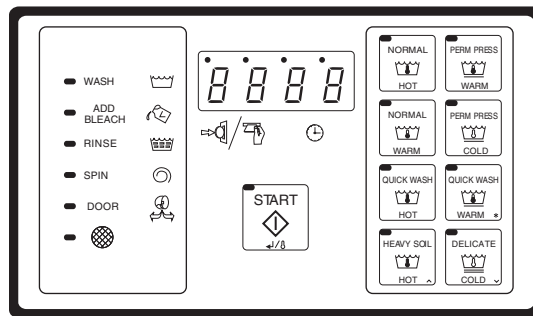


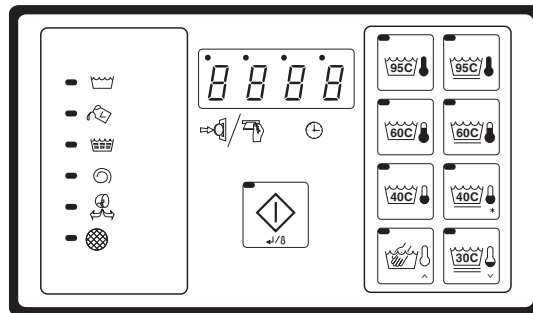
Washer-Extractors

Cabinet Freestanding
WE8 B-Series Microcomputer for Coin Models
Refer to Page 2 for Model Identification



DOMESTIC MODELS

CHM482R



INTERNATIONAL MODELS

CHM488R

Keep These Instructions for Future Reference.

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



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Introduction

Model Identification


Information in this manual is applicable to these models:


18	NX018BVPA7	NX18BVPA6	NX18BVXA7	SX018BVXA6	SX18BVXA7
	NX018BVQA7	NX18BVPA7	NX18BVXM6	SX018BVXA7	SX18BVXM7
	NX018BVXA6	NX18BVQA6	NX18BVXM7	SX018BVXM7	
	NX018BVXA7	NX18BVQA7	SX018BVPA7	SX18BVPA7	
	NX018BVXM7	NX18BVXA6	SX018BVQA7	SX18BVQA7	
30	NX030BVPA7	NX30BVPA6	NX30BVXA7	SX030BVXA6	SX30BVXA7
	NX030BVQA7	NX30BVPA7	NX30BVXM6	SX030BVXA7	SX30BVXM7
	NX030BVXA6	NX30BVQA6	NX30BVXM7	SX030BVXM7	
	NX030BVXA7	NX30BVQA7	SX030BVPA7	SX30BVPA7	
	NX030BVXM7	NX30BVXA6	SX030BVQA7	SX30BVQA7	
33	SX33BVPA7	SX33BVQA7	SX33BVXA7	SX33BVXM7	
40	SX40BVPA7	SX40BVQA7	SX40BVXA7	SX40BVXM7	


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.

NOTE: 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

Power Up

During power up, the software version of the control will display (i.e., “0009” or later) Next, the default cycle vend, Perm Press Cold (domestic models) or 60c Perm Press (international models) will display.

Communications

Alliance Planner Software

The Alliance Planner Software is a program that allows the user to pre-program customized cycle formulas, vends, etc. for all WE-8 B-Control washer-extractors in a facility. The information from the software is downloaded into the laptop, where the user is able to create and/or modify cycles. The cycle information is stored on the laptop and then downloaded into the washer-extractor.

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

Entering Program Mode

1. Open coin box
2. Locate rocker switch at top front inside coin vault.
3. Press the switch end toward the front of the machine. Cycles count (“----”) will display. This count cannot be reset.
4. Press START (enter).
5. Display will show “PrICE PrG1” and show the current vend amount for cycle one. Refer to *Programming Vend Amount Section*.

NOTE: Programming mode can be exited at any time by returning the programming switch to run mode.

NOTE: Program Mode can only be entered if a cycle is not in process.

Setup Mode

Vend and coin amounts can be programmed using the keypad or the Alliance Planner Software. All vend and coin amount programming changes, whether through the keypad or the Alliance Planner, MUST be made in Program Mode. Refer to *Entering Program Mode*.

NOTE: All changes followed by pressing START (enter) will be stored.

Programming Vend Amount

NOTE: This option selects the vend amount for each cycle program (total of eight vend amounts, one for each cycle).

NOTE: For Free Mode, set vend to 0.

NOTE: Vend amounts are changed by using the up (∧) arrow keypad or the down (∨) arrow keypad.

1. After entering program mode, display scrolls “PrICE PrG1”, then shows the vend price for cycle Program 1. Use up arrow keypad to increase, or down arrow to decrease. If correct, press START (enter) keypad to continue.
2. Displays “PrG2”, then shows the vend price for cycle Program 2. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
3. Displays “PrG3”, then shows the vend price for cycle Program 3. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
4. Displays “PrG4”, then shows the vend price for cycle Program 4. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
5. Displays “PrG5”, then shows the vend price for cycle Program 5. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
6. Displays “PrG6”, then shows the vend price for cycle Program 6. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
7. Displays “PrG7”, then shows the vend price for cycle Program 7. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
8. Displays “PrG8”, then shows the vend price for cycle Program 8. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.

Programming

Programming Coin 1/Coin 2 Denomination

NOTE: This option allows the programmer to designate the coin values to be used. (i.e., .25 = US quarter, 1.00 Yen, etc...)

NOTE: Coin denomination amounts are changed by using the up (^) arrow keypad or the down (v) arrow keypad.

9. Displays “COIN 1”, then the coin 1 denomination value. Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.
10. Displays “COIN 2”, then the coin 2 denomination value (only for models with a dual drop coin meter). Use up keypad to increase, down keypad to decrease, or press START (enter) keypad to continue.

Programming Decimal Point Position

NOTE: This option selects the position of the decimal point. It can be placed between the leftmost pair of digits (i.e., 1.000), between the middle pair of digits (i.e., 00.25), or between the right most pair of digits (i.e., 000.1) in the display.

NOTE: Decimal point position is changed. Coin denomination amounts are changed by using the up (^) arrow keypad or the down (v) arrow keypad.

11. Display scrolls “DECIMAL”, then shows the four digits with the decimal point located. Use up to change the position, or press START (enter) keypad to continue.
12. The calibration procedure begins after pressing START (enter). Refer to *Calibration Procedure Section*.

Calibration Procedure

The calibration procedure immediately follows the end of programming decimal point position. As soon as START (enter) keypad is pressed after programming the display decimal point position, the control locks the door. If door is open, “Shut door” will display until door is closed. Calibration procedure begins as described in the following steps:

1. Display scrolls “dIStrIb SPEEd”, then machine runs briefly at distribution speed, and the RPM displays.

2. Control accelerates to the each of the spin speed presets, showing “SPIN x” (“x” = spin speed number 1, 2, etc.), then the RPM, maintaining each briefly while showing RPM.
3. When complete, control allows machine to coast to a stop, while display shows “COAST DOWN PLEASE WAIT”.
4. Once machine has stopped, control unlocks door and displays “done”. The door can be opened, and the program switch returned to RUN position.

Cycle Programming

The 8 cycle programs cannot be modified from the keypad. Changing the factory cycle programs requires a laptop computer, with Alliance Planner Software V1.04 or later installed on the laptop. The laptop connects to the machine using a serial port which is accessed by opening the coin box. The PROGRAM switch in the coin box on the machine must be in PROGRAM mode before the cycle programs can be read, written or downloaded using the laptop and Alliance Planner Software.

Once the connection between the laptop computer and machine is made, and the PROGRAM switch is in program position, use the software to read, write, modify or download cycles.

IMPORTANT: The machine selected in the Alliance Planner software on the laptop MUST match the machine it is connected to.

IMPORTANT: Any cycles which may exist above cycle 9 on the laptop, using Alliance Planner file will not be transferred to the washer (only cycles 1 - 9 will transfer).

Contact the factory for information regarding “Alliance Planner” software.

Rapid Advance

NOTE: This option allows the user to step forward in the cycle during operation before the step is complete. Rapid Advance is enabled by following the steps below:

1. Turn off power to the machine.
2. Press and **HOLD** the (^) and (*) keypads while restoring power.
3. Display will show Advance.
4. Release keypads and advance is enabled.
5. Press START (enter) to select Rapid Advance.
6. Press START (enter) again to start the cycle already in process.
7. Press the lower right keypad (^) down arrow symbol) to advance in the cycle.

NOTE: Advance is disabled at end of cycle.

Test Cycle

NOTE: The test cycle is a special cycle (cycle 9) which will verify all major machine functions. To run a test cycle, follow the steps below:

1. Turn off power to machine.
2. Press and **HOLD** the (^) and PERM PRESS/WARM (domestic models) or 95C Synthetic (international models) keypads while restoring power.
3. Display will show “test”.
4. Press START (enter) to begin the test cycle.

NOTE: Rapid Advance is automatically enabled for the test cycle and disabled at the end of the test cycle.

Programming

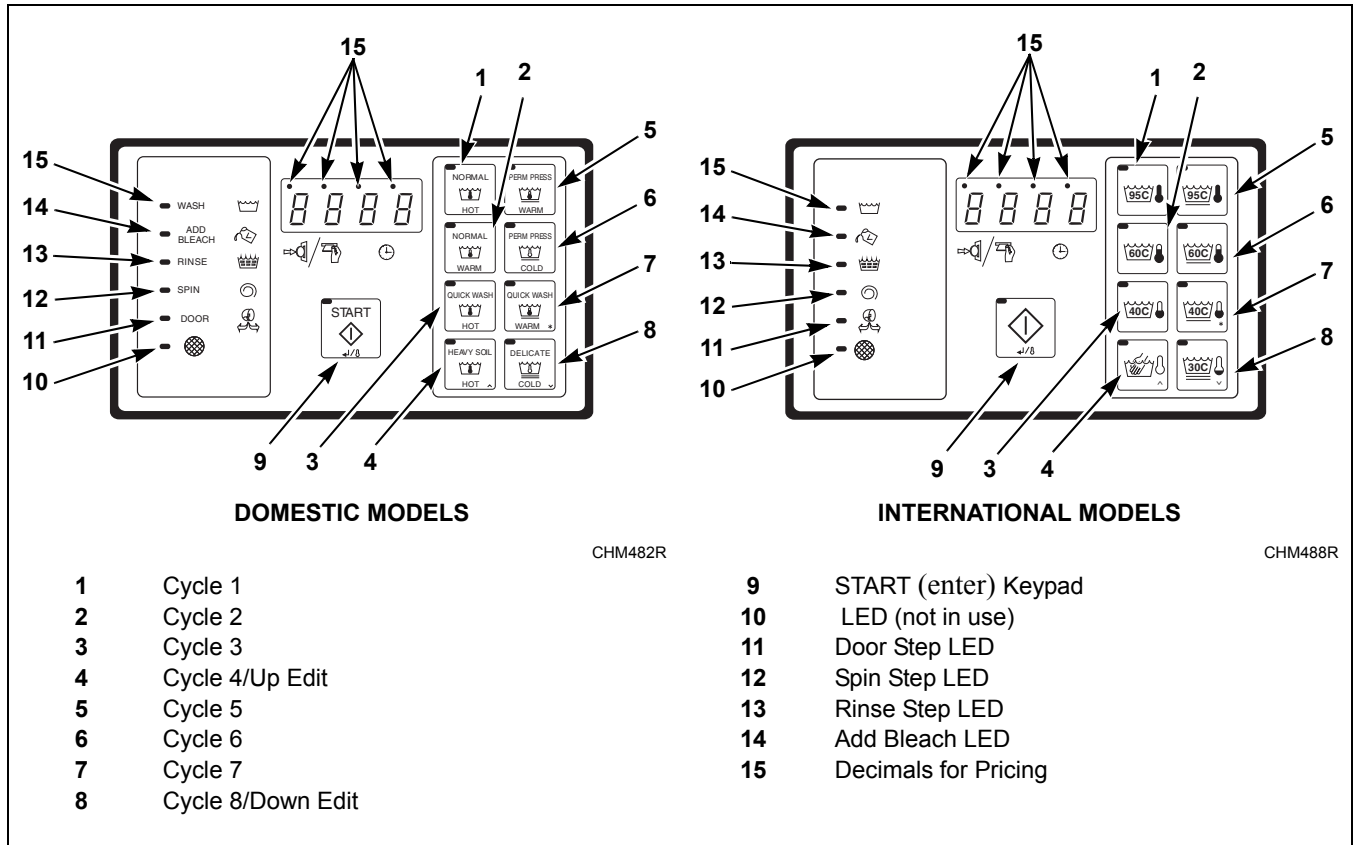


Figure 1

NOTE: If the version of control in machine is capable of reading temperature, pressing the START (enter) keypad while a wash is running will cause the display to show temperature and will revert to minutes remaining after several seconds.

Abnormal Conditions

Emergency Stop

Pressing the red emergency stop button on the rear of the machine will immediately stop the machine. If the emergency stop button is not reset, machine will initiate a safe stop routine releasing the door after several minutes. If safety stop is reset during the first several minutes option of selecting, resume cycle by pressing START (enter) keypad.

Restart after Power Interruption

After power has been restored, press START (enter) to resume cycle. If START (enter) is not pressed within one minute, machine will initiate a safe stop routine releasing the door and ending the cycle.

Door Will Not Lock

If the door handle has not been properly closed after paying the vend and pressing START (enter), control will not allow the cycle to start. Display will show “Shut door” and the status LED “door” will light prompting the user to close the door properly. Once the door is closed properly, the LED will turn off and the user should press START (enter) again. If this continues, it indicates a problem, and a qualified service technician should be consulted.

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. 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 even if the door is closed.

Excessive Fill Time

The control provides a Fill alarm whenever the water level has not reached the programmed setting within the time limit programmed for the cycle program step. The display indicates “ERROR FILL” with an audible beep, if the user does not press the START (enter) keypad within 2 minutes, control aborts the cycle, and continues to indicate the condition at the end of the stop routine before the door is opened. Otherwise, if the user presses START (enter) within 2 minutes the control resumes the fill step.

Excessive Drain Time

The control gives a Drain alarm if the machine has not emptied within the time limit programmed for the drain step in the cycle. The display indicates ERROR DRAIN, until machine drains. Otherwise, if the user presses START (enter), control repeats drain step.

Out of Balance

If the machine goes out of balance, the machine will attempt to balance the load with as many attempts as programmed. After “__” attempts, the control aborts the cycle and initiates the stop routine before the door is opened leaving the load's water extraction at the highest level achieved before shut down.

Door Will Not Unlock

If the door will not unlock, shut off power to gain access to load. If this fault continues, it indicates a problem, and a qualified service technician should be consulted.

Free Mode

For set up information, refer to *Programming Vend Amount Section*.

Programming

Cycle Charts
Domestic Coin Cycles

Cycle 01		
Step	Normal Hot	Min:sec
1	Hot Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to Low Level	7:00
9	Wash 1 18/3 (32°F)	2:00
10	Drain 1	5:00
11	Cold Fill to Low Level	7:00
12	Supply 3	0:30
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	5:00
15	Spin 4	4:00

Cycle 02		
Step	Normal Warm	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to Low Level	7:00
9	Wash 1 18/3 (32°F)	2:00
10	Drain 1	5:00
11	Cold Fill to Low Level	7:00
12	Supply 3	0:30
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	5:00
15	Spin 4	4:00

Cycle 03		
Step	Quick Wash Hot	Min:sec
1	Hot Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to High Level	7:00
9	Supply 3	0:30
10	Wash 1 18/3 (32°F)	2:00
11	Drain 1	5:00
12	Spin 2	4:00

Cycle 04		
Step	Heavy Soil Hot	Min:sec
1	Hot Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	3:00
7	Drain 1	5:00
8	Cold Fill to Low Level	7:00
9	Wash 1 18/3 (32°F)	2:00
10	Drain 1	5:00
11	Cold Fill to Low Level	7:00
12	Supply 3	0:30
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	5:00
15	Spin 2	4:00

Cycle 05		
Step	Perm Press Warm	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to Low Level	7:00
9	Wash 1 18/3 (32°F)	2:00
10	Drain 1	5:00
11	Cold Fill to Low Level	7:00
12	Supply 3	0:30
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	5:00
15	Spin 1	3:00

Programming

Cycle 06		
Step	Perm Press Cold	Min:sec
1	Cold Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to Low Level	7:00
9	Wash 1 18/3 (32°F)	2:00
10	Drain 1	5:00
11	Cold Fill to Low Level	7:00
12	Supply 3	0:30
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	5:00
15	Spin 1	3:00

Cycle 07		
Step	Quick Wash Warm	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1, 2, 5	0:30
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to High Level	7:00
9	Supply 3	0:30
10	Wash 1 18/3 (32°F)	2:00
11	Drain 1	5:00
12	Spin 2	3:00

Cycle 08		
Step	Delicate Cold	Min:sec
1	Cold Fill to Med Level	7:00
2	Supply 1, 2	0:30
3	Wash 2 3/27 (32°F)	4:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 2 3/27 (32°F)	2:00
7	Drain 1	5:00
8	Cold Fill to High Level	7:00
9	Supply 3	0:30
10	Wash 2 3/27 (32°F)	2:00
11	Drain 1	5:00
12	Spin 1	2:00

Cycle 09		
Step	Test Program	Min:sec
1	Cold Fill to Low Level	2:00
2	Wash 3, no agitation (32°F)	0:30
3	Drain 1	5:00
4	Hot Fill to Med Level	2:00
5	Wash 3, no agitation (32°F)	0:30
6	Drain 1	5:00
7	Warm Fill to High Level	2:00
8	Wash 3, no agitation (32°F)	0:30
9	Drain 1	5:00
10	135°F Fill to Low Level	2:00
11	Heat (150°F)	1:00
12	Wash 1 18/3 (32°F)	0:30
13	Supply 1	0:10
14	Supply 2	0:10
15	Supply 3	0:10
16	Supply 5	0:10
17	Wash 1 18/3 (32°F)	0:30
18	Wash 2 3/27 (32°F)	0:30
19	Spin 1	2:00
20	Spin 2	2:00
21	Spin 3	2:00
22	Spin 4	2:00

Programming

Cycle Charts
International Coin Cycles

Cycle 01		
Step	Normal 95C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 1 18/3 (0°C)	2:00
5	Drain 1	5:00
6	Hot Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (95°C)	0:50
9	Wash 1 18/3 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 1 18/3 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 1 18/3 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High level	7:00
17	Wash 1 18/3 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 1 18/3 (0°C)	3:00
23	Drain 1	5:00
24	Spin 4	5:00

Cycle 02		
Step	Normal 60C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 1 18/3 (0°C)	2:00
5	Drain 1	5:00
6	Warm Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (60°C)	0:50
9	Wash 1 18/3 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 1 18/3 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 1 18/3 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High level	7:00
17	Wash 1 18/3 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 1 18/3 (0°C)	3:00
23	Drain 1	5:00
24	Spin 4	5:00

Cycle 03		
Step	Normal 40C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 1 18/3 (0°C)	2:00
5	Drain 1	5:00
6	Hot Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (40°C)	0:50
9	Wash 1 18/3 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 1 18/3 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 1 18/3 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High level	7:00
17	Wash 1 18/3 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 1 18/3 (0°C)	3:00
23	Drain 1	5:00
24	Spin 4	5:00

Cycle 04		
Step	Gentle Cold	Min:sec
1	Cold Fill to High Level	7:00
2	Supply 1, 2	0:30
3	Wash 2 3/27 (0°C)	2:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Wash 2 3/27 (0°C)	2:00
7	Drain 1	5:00
8	Spin 1	2:00
9	Cold Fill to High Level	7:00
10	Supply 3	0:30
11	Wash 2 3/27 (0°C)	3:00
12	Drain 1	5:00
13	Spin 1	2:00

Programming

Cycle 05		
Step	Perm Press 95C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 1 18/3 (0°C)	2:00
5	Drain 1	5:00
6	Hot Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (95°C)	0:50
9	Wash 1 18/3 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 1 18/3 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 1 18/3 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High level	7:00
17	Wash 1 18/3 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 1 18/3 (0°C)	3:00
23	Drain 1	5:00
24	Spin 1	3:00

Cycle 06		
Step	Perm Press 60C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 1 18/3 (0°C)	2:00
5	Drain 1	5:00
6	Warm Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (60°C)	0:50
9	Wash 1 18/3 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 1 18/3 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 1 18/3 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High Level	7:00
17	Wash 1 18/3 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 1 18/3 (0°C)	3:00
23	Drain 1	5:00
24	Spin 1	3:00

Cycle 07		
Step	Perm Press 40C	Min:sec
1	Warm Fill to Low Level	7:00
2	Supply 1	0:30
3	Heat (40°C)	0:50
4	Wash 2 3/27 (0°C)	2:00
5	Drain 1	5:00
6	Hot Fill to Low Level	7:00
7	Supply 1, 2	0:30
8	Heat (40°C)	0:50
9	Wash 2 3/27 (0°C)	6:00
10	Cold Fill to High Level	7:00
11	Wash 2 3/27 (0°C)	2:00
12	Drain 1	5:00
13	Cold Fill to High Level	7:00
14	Wash 2 3/27 (0°C)	2:00
15	Drain 1	5:00
16	Cold Fill to High Level	7:00
17	Wash 2 3/27 (0°C)	2:00
18	Drain 1	5:00
19	Spin 1	1:00
20	Cold Fill to High Level	7:00
21	Supply 3	0:30
22	Wash 2 3/27 (0°C)	3:00
23	Drain 1	5:00
24	Spin 1	3:00

Cycle 08		
Step	Gentle 30C	Min:sec
1	Cold Fill to High Level	7:00
2	Supply 1	0:30
3	Wash 2 3/27 (80°C)	2:00
4	Drain 1	5:00
5	Cold Fill to High Level	7:00
6	Supply 1, 2	0:30
7	Heat (30°C)	0:50
8	Wash 2 3/27 (0°C)	2:00
9	Drain 1	5:00
10	Cold Fill to High Level	7:00
11	Wash 2 3/27 (0°C)	2:00
12	Drain 1	5:00
13	Spin 1	1:00
14	Cold Fill to High Level	7:00
15	Supply 3	0:30
16	Wash 2 3/27 (0°C)	2:00
17	Drain 1	5:00
18	Spin 1	2:00

Programming

Cycle 09		
Step	Test Program	Min:sec
1	Cold Fill to Low Level	2:00
2	Wash 3, no agitation (0°C)	0:30
3	Drain 1	5:00
4	Hot Fill to Med Level	2:00
5	Wash 3, no agitation (0°C)	0:30
6	Drain 1	5:00
7	Warm Fill to High Level	2:00
8	Wash 3, no agitation (0°C)	0:30
9	Drain 1	5:00
10	57°C Fill to Low Level	2:00
11	Heat (65°C)	1:00
12	Wash 1 18/3 (0°C)	0:30
13	Supply 1	0:10
14	Supply 2	0:10
15	Supply 3	0:10
16	Supply 5	0:10
17	Wash 1 18/3 (0°C)	0:30
18	Wash 2 3/27 (0°C)	0:30
19	Spin 1	2:00
20	Spin 2	2:00
21	Spin 3	2:00
22	Spin 4	2:00