Washer-Extractors

Cabinet Hardmount – Coin and OPL
Mechanical Timer
Refer to Page 6 for Model Identification

HOT	WARM	WARM	COLD
HEAVILY SOILED	PERM-PRESS	NORMAL WASH	DELICATE KNITS
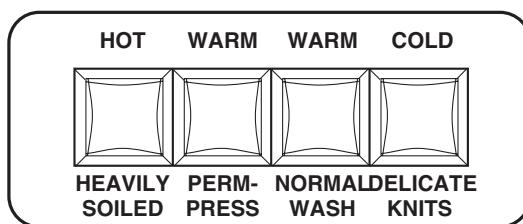
CHM1762C

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

Alliance
Laundry Systems

www.comlaundry.com

Table of Contents

Safety Information

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.

![warning triangle] **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 triangle] **WARNING**

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

![warning triangle] **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 triangle] **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.

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**

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.

SW004

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

⚠️ **WARNING**

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.

W703

⚠️ **CAUTION**

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

⚠️ **WARNING**

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.

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.

Operator Safety

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

SW012

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.

<table>
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<td>

WARNING
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</table>

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.

SW039

Introduction

Model Identification

Information in this manual is applicable to these
models:

HC18MC2	HC30MX2	HC80MD3	SC20MD2	SC35MN2	SC80MH3	UC30MX2
HC18MDX	HC30MY2	HC80MH3	SC20ML2	SC35MN3	SC80MN3	UC35MC2
HC18MD2	HC35MC2	HC80MN3	SC20MN2	SC35MV2	SC80MV3	UC35MC3
HC18MH2	HC35MD2	HC80MV3	SC20MX2	SC35MV3	UC18MC2	UC35MD2
HC18MN2	HC35MDX	NC18MD2	SC20MY2	SC35MX2	UC18MC3	UC35MD3
HC18MV2	HC35MH2	NC18MDX	SC25MC2	SC40MD2	UC18MD2	UC35MH2
HC18MX2	HC35MN2	NC18MX2	SC25MD2	SC40ML2	UC18MD3	UC35MH3
HC20MD2	HC35MX2	NC25MD2	SC25MH2	SC40MN2	UC18MH2	UC35MN2
HC20ML2	HC35MV2	NC25MDX	SC25ML2	SC40MX2	UC18MH3	UC35MN3
HC20MN2	HC40MD2	NC25MX2	SC25MN2	SC40MY2	UC18MN2	UC35MV2
HC20MX2	HC40ML2	NC27MD2	SC25MV2	SC50MC2	UC18MN3	UC35MV3
HC20MY2	HC40MN2	NC27MDX	SC25MX2	SC50MC3	UC18MV2	UC35MX2
HC25MC2	HC40MX2	NC27MX2	SC25MY2	SC50MD2	UC18MV3	UC40MN2
HC25MD2	HC40MY2	NC35MD2	SC27MC2	SC50MD3	UC18MX2	UC50MC2
HC25MDX	HC50MC2	NC35MDX	SC27MD2	SC50MH2	UC20MD2	UC50MC3
HC25MH2	HC50MD2	NC35MX2	SC27MH2	SC50MH3	UC20ML2	UC50MD2
HC25ML2	HC50MH2	NC50MD2	SC27MN2	SC50ML2	UC20MN2	UC50MD3
HC25MN2	HC50ML2	NC50MDX	SC27MV2	SC50MN2	UC20MX2	UC50MH2
HC25MV2	HC50MN2	NC50MX2	SC27MX2	SC50MN3	UC25MC2	UC50MH3
HC25MX2	HC50MV2	SC18MC2	SC30MD2	SC50MV2	UC25MD2	UC50MN2
HC25MY2	HC50MX2	SC18MC3	SC30ML2	SC50MV3	UC25MH2	UC50MN3
HC27MC2	HC50MY2	SC18MD2	SC30MN2	SC50MX2	UC25MN2	UC50MV2
HC27MD2	HC60MC2	SC18MD3	SC30MX2	SC50MY2	UC25MV2	UC50MV3
HC27MDX	HC60MD2	SC18MH2	SC30MY2	SC60MD2	UC25MX2	UC50MX2
HC27MH2	HC60ML2	SC18MH3	SC35MC2	SC60ML2	UC27MC2	UC60MN2
HC27MN2	HC60MN2	SC18MN2	SC35MC3	SC60MN2	UC27MD2	UC80MC3
HC27MV2	HC60MX2	SC18MN3	SC35MD2	SC60MX2	UC27MN2	UC80MD3
HC27MX2	HC60MY2	SC18MV2	SC35MD3	SC60MY2	UC27MX2	UC80MH3
HC30MD2	HC80MC3	SC18MV3	SC35MH2	SC80MC3	UC30ML2	UC80MN3
HC30ML2	HC80MD2	SC18MX2	SC35MH3	SC80MD3	UC30MN2	UC80MV3
HC30MN2						

F232133

Nameplate Location

The nameplate is located at the rear of the machine and inside door. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance.

| 1 | Nameplate |
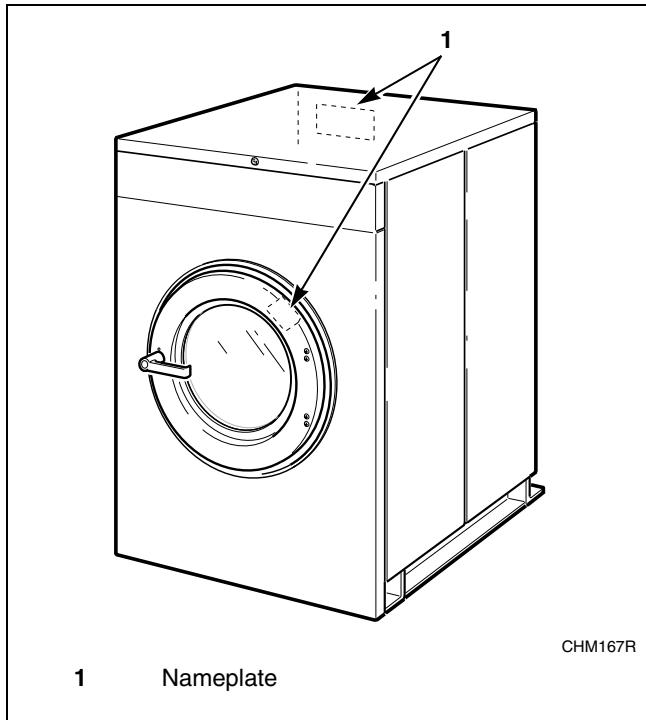
Replacement Parts

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems LLC at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call:

(920) 748-3121
Ripon, Wisconsin
www.comlaundry.com

Introduction

<table>
<tr><td colspan="2" align="center">Model Number Familiarization Guide</td></tr>
<tr><td colspan="2" align="center">Sample Model Number: *C60MX20060001</td></tr>
<tr><td align="center">C</td><td>Model Number Prefix</td></tr>
<tr><td align="center">60</td><td>Washer-Extractor Capacity (pounds dry weight of laundry)</td></tr>
<tr><td align="center">M</td><td>Type of Electrical Control</td></tr>
<tr><td align="center">X</td><td>Actuation (X = Prep for coin)</td></tr>
<tr><td align="center">2</td><td>Washer-Extractor Speed Capability (2 = 2 speed)</td></tr>
<tr><td align="center">O</td><td>Electrical Characteristics</td></tr>
<tr><td align="center">U6</td><td>Design Series</td></tr>
<tr><td align="center">0001</td><td>Option Identification (varies from machine to machine)</td></tr>
</table>

* Denotes Brand

Model No.   *C60MX2OU60001

Serial No.   00000000000

Voltage   208 – 240   Amps   7

Required Circuit Breaker Amps   3

Hz 60   Wire 3   Phase 3

Max. Load 60   LB   KG 18   Max. Speed 470   RPM

Elec. Heating N/A   KW   Steam Press. N/A   PSI 0   BAR

ETL LISTED
CONFORMS TO
ANSI/UL STD. 1555
ANSI/UL STD. 1206

ETL TESTING LABORATORIES INC.
CORTLAND, NEW YORK 13045

Product No.   500000   Date Code

EXAMPLE OF NAMEPLATE

CHM2028N

Programming

The wash cycle program in machines equipped with a mechanical timer can be modified to a limited extent. The following changes can be made:

- The prewash time may be set to two minutes, four minutes or omitted altogether.

- The wash time may be set to either four minutes or eight minutes.

- The water level for the wash step may be set to either low or high.

- The water temperature for the rinses may be set to either cold or warm.

- The final spin time may be set to either two minutes or four minutes.

⚠	**WARNING**

To reduce the risk of electric shock, serious injury or death, earth (ground) the dryer frame externally by connecting one end of a grounding wire under ground screw on cabinet rear and the other end to a known effective ground.

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Setting the Jumpers With Circuit Board

NOTE: The odd-numbered side of the timer is used to change the duration of individual cycle steps. The even-numbered side of the timer is used to adjust the rinse temperature or to change the water level for the wash step.

1. Disconnect the power to the machine.

2. Unlock and raise top cover.

3. Remove control module cover.

4. Locate the mechanical timer in the middle of the control module.

5. Install or remove jumpers on the odd side to set desired cycle time. Refer to *Figure 1* and *Table 1* for jumper configurations for odd-side options.


JP1

JUMPER REMOVED

JUMPER INSTALLED

B165R
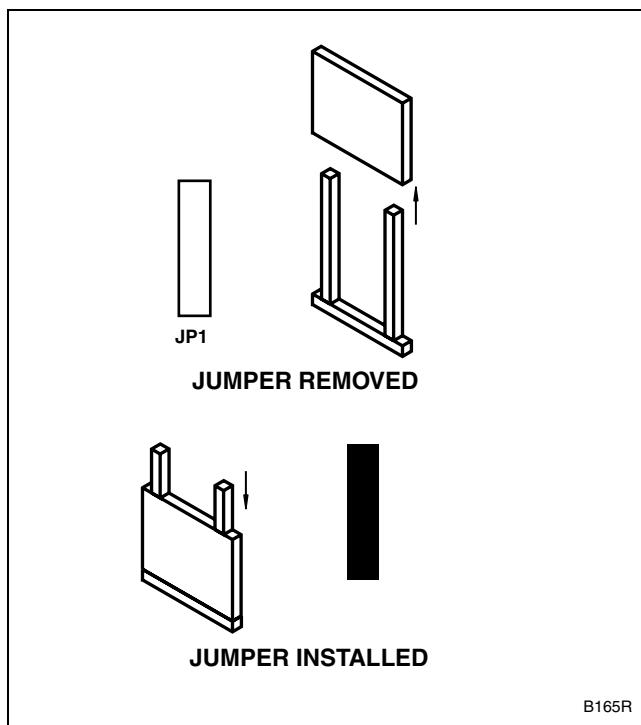
Figure 1

Programming

	Options for Odd Side										
	Jumper Configurations				**Cycle Time**						
	JP1	**JP2**	**JP3**	**JP4**	**PreWash**	**Wash**	**Rinse 1**	**Rinse 2**	**Rinse 3**	**Final Spin**	**Cycle Time**
					4	8	1.5	1.5	1.5	4	27.5
			■		4	4	1.5	1.5	1.5	4	23.5
			■	■	0	4	1.5	1.5	1.5	4	18.5
		■	■	■	0	4	1.5	1.5	1.5	2	16.5
*	■		■		2	4	1.5	1.5	1.5	4	21.5
		■	■		2	4	1.5	1.5	1.5	2	19.5
				■	0	8	1.5	1.5	1.5	4	22.5
		■		■	0	8	1.5	1.5	1.5	2	20.5
	■				2	8	1.5	1.5	1.5	4	25.5
	■	■			2	8	1.5	1.5	1.5	2	23.5
		■			4	8	1.5	1.5	1.5	2	25.5

*Factory Setting

Table 1

	Options for Even Side					
	Jumper Configurations			**Fill Temperature**	**Water Level**	**Wash Action**
	JP1	**JP2**	**JP3**			
	■			warm	low	normal
		■		cold	high	normal
			■	cold	low	reduced**
	■	■		warm	high	normal
*		■	■	cold	high	reduced
	■		■	warm	low	reduced
				cold	low	normal
	■	■	■	warm	high	reduced

*Factory Setting
**Cold/Delicate cycle must be selected for reduced wash action

Table 2

6. Install or remove jumpers to set desired rinse temperature or water level. Refer to *Figure 1* and *Table 2* for jumper configurations for even-side options.

 F232133

⚠ **WARNING**

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

W709

7. After the jumpers have been set, replace the control module cover.

8. Close and lock top cover.

9. Reconnect power to machine.

Setting the Jumpers Without Circuit Board

NOTE: The following procedures must be performed by a qualified electrician familiar with the construction and operation of this type of machinery.

1. Disconnect power to the machine.

2. Unlock and raise the top cover.

3. Remove the control module cover.

4. The mechanical timer is located in the middle of the control module. The odd-numbered side of the timer is used to change the duration of individual cycle steps. Refer to *Figure 2*.

   Eleven possible jumper configurations are available for changing the cycle time. Refer to *Table 3*.
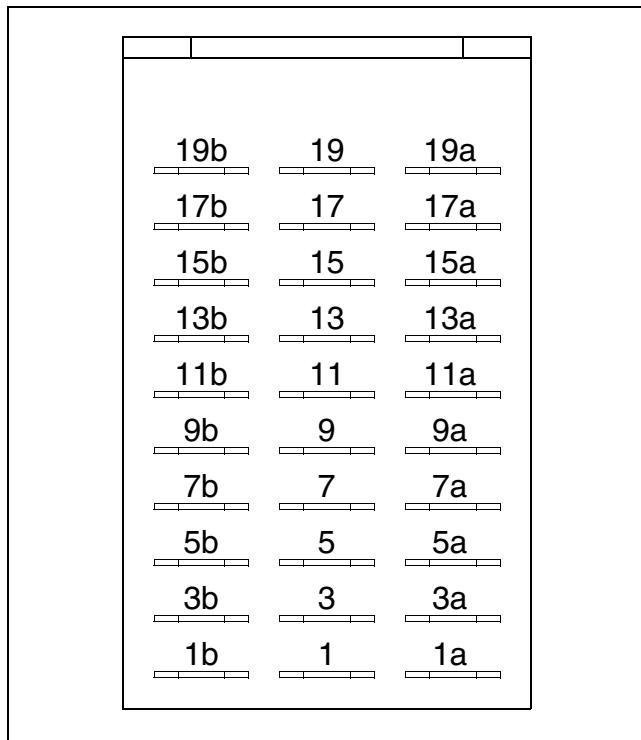
Figure 2

Mechanical Timer Cycle Time Options							
Jumper Setting	**PreWash**	**Wash**	**Rinse 1**	**Rinse 2**	**Rinse 3**	**Final Spin**	**Cycle Time**
None	4	8	1.5	1.5	1.5	4	27.5
1a to 3a	4	4	1.5	1.5	1.5	4	23.5
1a to 3a to 3b	--	4	1.5	1.5	1.5	4	18.5
1a to 3a to 3b to 5b	--	4	1.5	1.5	1.5	2	16.5
1a to 3a to 5a*	2	4	1.5	1.5	1.5	4	21.5
1a to 3a to 5a to 5b	2	4	1.5	1.5	1.5	2	19.5
1a to 3b	--	8	1.5	1.5	1.5	4	22.5
1a to 3b to 5b	--	8	1.5	1.5	1.5	2	20.5
1a to 5a	2	8	1.5	1.5	1.5	4	25.5
1a to 5a to 5b	2	8	1.5	1.5	1.5	2	23.5
1a to 5b	4	8	1.5	1.5	1.5	2	25.5

*Factory Setting

Table 3

   F232133

5. Install or remove jumpers to achieve the desired cycle time. *Figure 3* through *Figure 12* illustrate the possible combinations.

NOTE: Do not remove the cover from the mechanical timer. Removing this cover will void the warranty.

No jumpers installed on the board

Removing all the jumpers from 1a extends the cycle time, making it as long as possible. Refer to *Figure 3*.

NOTE: Do not remove the wire from the 1a terminal on timer. Removing this wire disables the timer. To extend cycle time, remove the wires after the 1a terminal on timer.
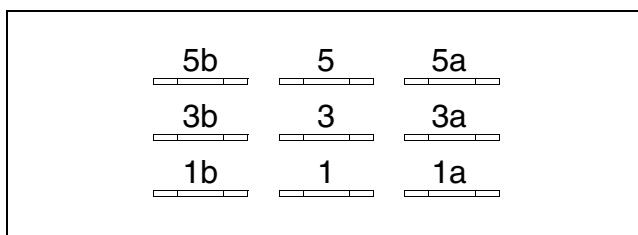
Figure 3

1a to 3a

This jumper configuration shortens the wash step from eight minutes to four minutes. Refer to *Figure 4*.
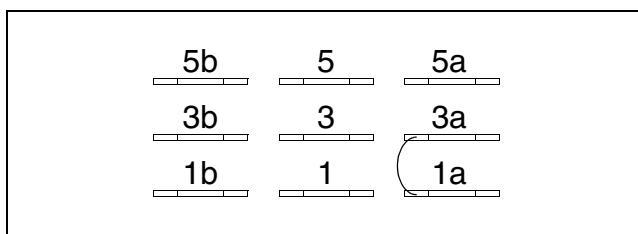
Figure 4

1a to 3a to 3b

This configuration eliminates the prewash step and shortens the wash step from eight minutes to four minutes. Refer to *Figure 5*.
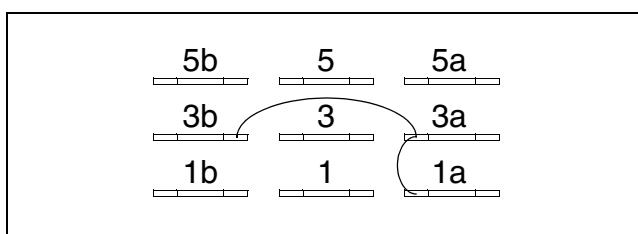

Figure 5

1a to 3a to 3b to 5b

This configuration eliminates the prewash step, shortens the wash step from eight minutes to four minutes, and shortens the final spin time from four minutes to two minutes. Refer to *Figure 6*.
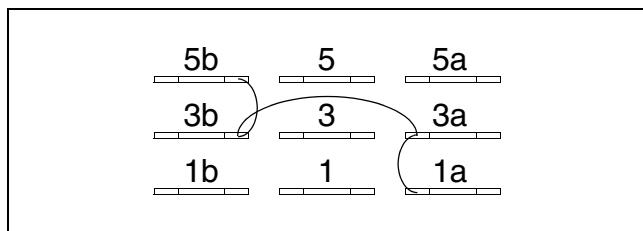

Figure 6

1a to 3a to 5a

This is the factory-preset jumper configuration. This configuration shortens the prewash step from four minutes to two minutes and shortens the wash step from eight minutes to four minutes. Refer to *Figure 7*.
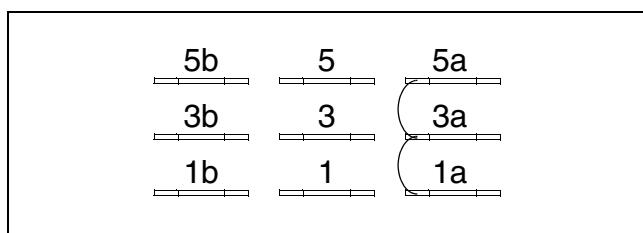

Figure 7

1a to 3a to 5a to 5b

This configuration shortens the prewash step from four minutes to two minutes, shortens the wash step from eight minutes to four minutes, and shortens the final spin time from four minutes to two minutes. Refer to *Figure 8*.
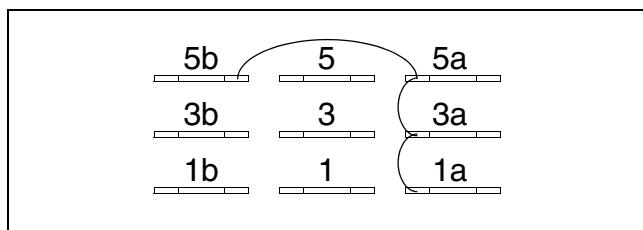

Figure 8

Programming

1a to 3b

This configuration eliminates the prewash step. Refer to *Figure 9*.

| 5b	5	5a
3b	3	3a
1b	1	1a
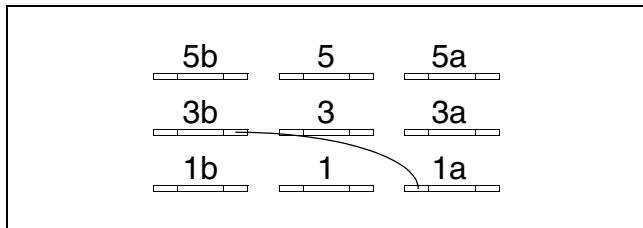
Figure 9

1a to 3b to 5b

This configuration eliminates the prewash step and shortens the final spin time from four minutes to two minutes. Refer to *Figure 10*.

5b	5	5a
3b	3	3a
1b	1	1a
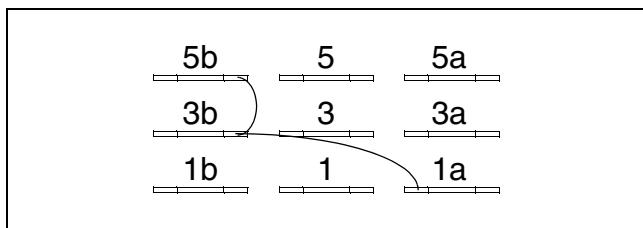
Figure 10

1a to 5a

This configuration shortens the prewash step from four minutes to two minutes. Refer to *Figure 11*.

| 5b	5	5a
3b	3	3a
1b	1	1a
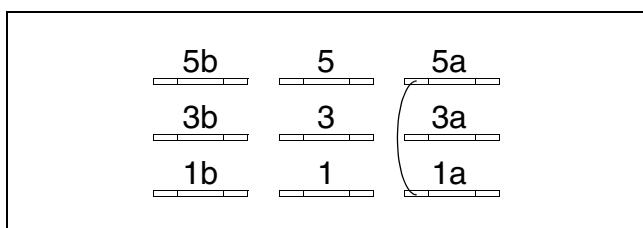
Figure 11

1a to 5a to 5b

This configuration shortens the prewash step from four minutes to two minutes and shortens the final spin time from four minutes to two minutes. Refer to *Figure 12*.

5b	5	5a
3b	3	3a
1b	1	1a
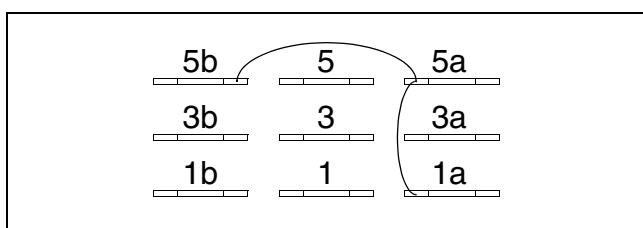
Figure 12

1a to 5b

This configuration shortens the final spin time from four minutes to two minutes. Refer to *Figure 13*.

5b	5	5a
3b	3	3a
1b	1	1a
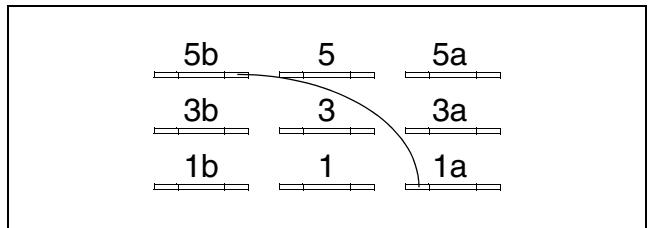
Figure 13

6. The even-numbered side of the program timer can be configured with jumpers to adjust the rinse temperature or to change the water level for the wash step. Refer to *Figure 14*.

20b	20	20a
18b	18	18a
16b	16	16a
14b	14	14a
12b	12	12a
10b	10	10a
8b	8	8a
6b	6	6a
4b	4	4a
2b	2	2a
0b	0	0a
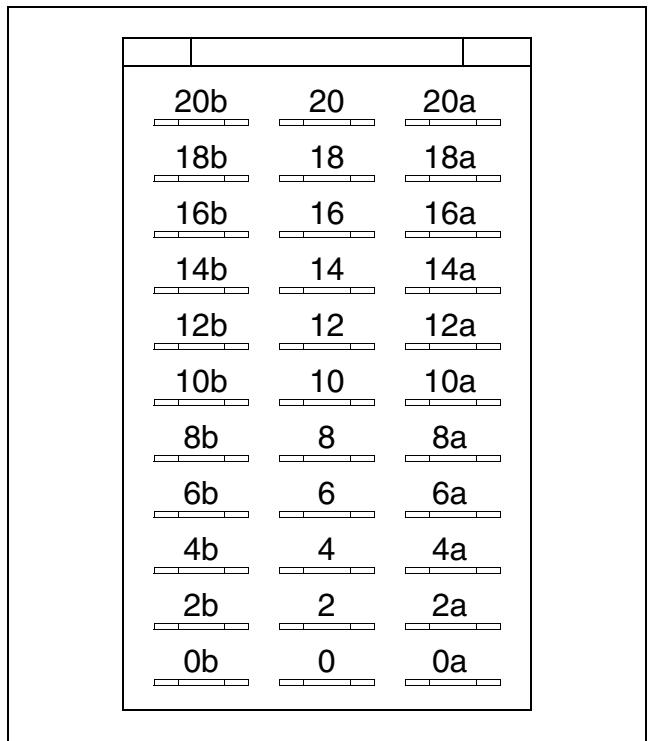
Figure 14

Figure 15 and *Figure 16* illustrate the different options available.

 F232133

2a to 2b

This jumper configuration changes the fill temperature for the rinses from cold to warm for all cycles. Refer to *Figure 15*.

| 4b	4	4a
2b	2	2a
0b	0	0a

Figure 15

⚠️ **WARNING**

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

W709
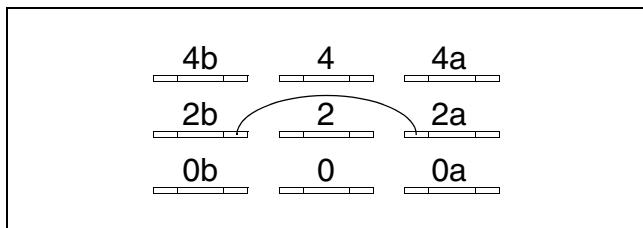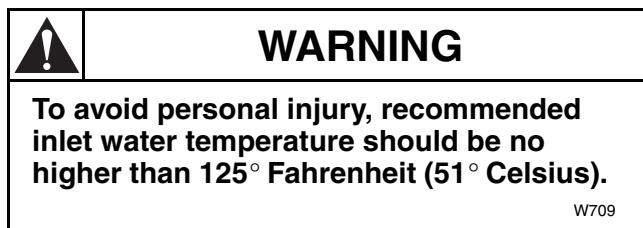
10a to 10b

This jumper configuration changes the water level for the wash segment from low to high for all cycles. Refer to *Figure 16*.

| 12b	12	12a
10b	10	10a
8b	8	8a
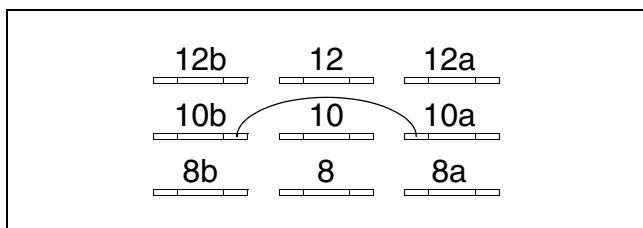
Figure 16

7. After the jumpers have been set, replace the control module cover.

8. Close and lock the top cover.

9. Reconnect power to the machine.

Programming the Digital Coin Meter

Verify the software version to be a single-coin acceptor or a dual-coin acceptor by checking the label on the coin counter board located in the control module behind the coin meter face. Refer to *Figure 17*. For single-coin acceptors, the software version identification code is "ONECOIN V2.62"; for dual-coin acceptors, the code is "TWOCOIN V2.85".

B164R

1	Left Program Button
2	Right Program Button
3	Coin Counter Board
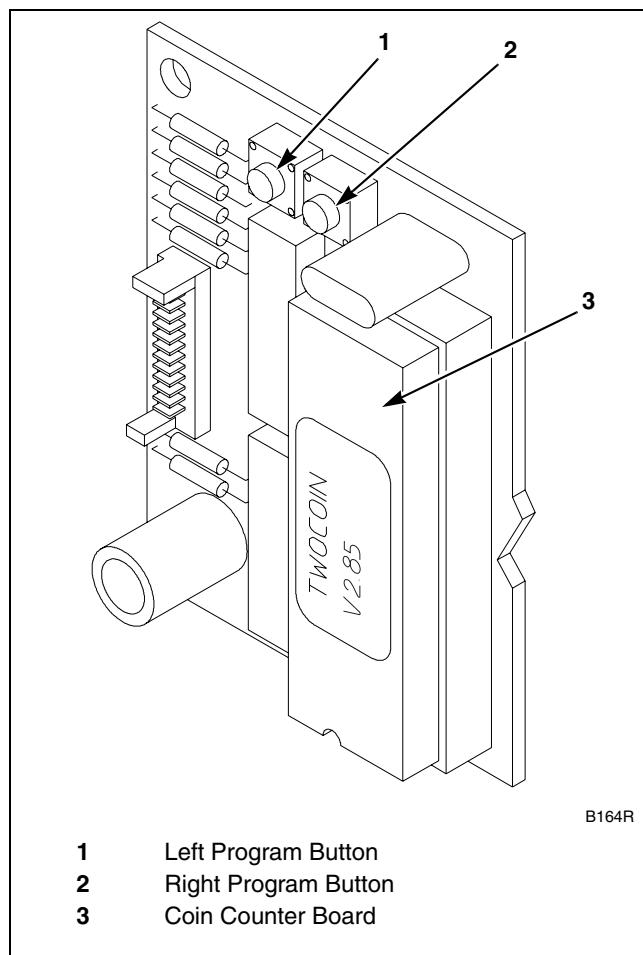
Figure 17

Setting the Parameters

1. Locate the two buttons above and to the left of the microprocessor. Refer to *Figure 17*.

2. Press and release both buttons at the same time to enter PROGRAM Mode. The digital display will show "AtS".

3. Press either the left or right button until the desired parameter is displayed. Refer to *Table 4* to see parameters and their meanings.

4. Press and release both buttons at the same time to display the setting for the selected parameter. Press the left or right button to change the parameter setting. When setting numerical values, the right button increases the displayed value and the left button decreases the displayed value. Pressing and holding one of the buttons causes the displayed value to change more rapidly.

5. Once the desired parameter value is displayed, press and release both buttons at the same time to accept the new value.

6. To change another parameter setting, return to step 3.

7. To return to RUN Mode, press the right or left button until the digital display shows "End". Press and release both buttons at the same time. The display will then either show a vend price or alternately flash "PAY" and a vend price.

Display	Programming Parameters
AtS – *Amount to Start*	Amount value required to start a single wash. *Single coin*: value must be evenly divisible by the APC setting. *Dual coin*: value should be evenly divisible by both Cn1 and Cn2 values.
APC – *Amount Per Coin*	Value of each coin inserted into the coin meter.
Cn1 – *Coin 1* (Dual coin only)	Value of each coin inserted to the right slot of the coin meter (as viewed from the front).
Cn2 – *Coin 2* (Dual coin only)	Value of each coin inserted to the left slot of the coin meter (as viewed from the front).
ACC – *Accumulate*	How the display will show the start amount. Set to "UP" to display value of coins inserted in the meter; set to "Dn" to display the difference between the value of the inserted coins and the AtS.
FLS – *Flash*	Set to "YES" to have the display flash; set to "no" to have the display not flash.
Crd – *Credit* (Dual coin only)	Determines whether or not overpayment by a customer is credited to the next wash. Set to "YES" for the amount of overpayment to be credited to the next wash. The display will show either a reduced vend price or the amount of overpayment, depending on the setting of the ACC parameter; set to "no" for no credit given to overpayment.
Lot – *Lock-Out Time*	Determines the amount of time in seconds the coin counter board will pause when a bad coin is inserted. When a bad coin is inserted, the display will read "Err" for this amount of time.
Rot – *Relay-On Time*	
Ctr – *Counter*	Read-only parameter keeps track of the number of cycles the washer-extractor has performed.
dPt – *Decimal Point*	Determines the position of the decimal point in the digital display. Set to "000" for no decimal point; set to "001" for the decimal point to display on the right side of the center digit; set to "002" to display on the left side of the center digit.

Table 4

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